Final

Remedial Investigation/Feasibility Study Report for Soil, Sediment, and Surface Water at the RVAAP-48 Anchor Test Area

Ravenna Army Ammunition Plant
Ravenna, Ohio

Contract No. W912QR-04-D-0028
Delivery Order No. 0001

Prepared for:

United States Army Corps of Engineers
Louisville District

Prepared by:

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14. ABSTRACT

This Remedial Investigation/Feasibility Study Report for Anchor Test Area presents physical characteristics, geology, and hydrogeology of Anchor Test Area; compiles historical and newly acquired environmental data; summarizes nature and extent of contamination in soil; evaluates contaminant fate and transport; provides human health and ecological risk assessments; identifies response actions, screening of remedial technologies and process options; develops remedial alternatives to address chemicals of concern (COCs) presenting unacceptable risk; and presents a recommended alternative to meet the remedial action objective at this AOC. Sediment and surface water are not present at this AOC. To achieve National Guard Training and an unrestricted land use scenario for soil, this report recommends implementing "Alternative 2: Attain National Guard Training and Residential Land Uses" to excavate shallow surface soil that exceeds the arsenic CUG for the National Guard Trainee at location ATAss-005M.

15. SUBJECT TERMS

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Final

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January 18, 2012

CONTRACTOR STATEMENT OF INDEPENDENT TECHNICAL REVIEW

Science Applications International Corporation (SAIC) has completed the Remedial Investigation/Feasibility Study Report for Soil at the RVAAP-48 Anchor Test Area at the Ravenna Army Ammunition Plant, Ravenna, Ohio. Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in the project. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of data quality objectives; technical assumptions; methods, procedures, and materials to be used; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing United States Army Corps of Engineers (USACE) policy.

Jed Thomas, P.E. — 12/20/10
Study/Design Team Leader — Date

Corey Pacer, P.E. — 12/20/10
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Fate and Transport Reviewer — Date

Harry Fatkin — 12/20/10
Risk Assessment Reviewer — Date

Corey Pacer, P.E. — 12/20/10
Feasibility Study Reviewer — Date

Significant concerns and the explanation of the resolution are as follows:

Internal SAIC Independent Technical Review was conducted on the Preliminary Draft version of this document. Subsequent versions of this document (e.g., Draft and Final) incorporated changes based on the technical reviews of USACE, the Ohio Army National Guard, and the Ohio Environmental Protection Agency. Internal SAIC Independent Technical Review comments are recorded on a Document Review Record per SAIC quality assurance procedure QAAP 3.1. This Document Review Record is maintained in the project file. Changes to the report addressing the comments have been verified by the Study/Design Team Leader. As noted above, all concerns resulting from independent technical review of the project have been considered.

Jeff Dick — 12/20/10
Principal w/ A-E firm — Date

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NGB = National Guard Bureau
OHARNG = Ohio Army National Guard
Ohio EPA-NEDO = Ohio Environmental Protection Agency-Northeast District Office
REIMS = Ravenna Environmental Information Management System
RVAAP = Ravenna Army Ammunition Plant
SAIC = Science Applications International Corporation
USACE = United States Army Corps of Engineers
USAEC = United States Army Environmental Command

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ACRONYMS AND ABBREVIATIONS

ADR	Automated Data Review
amsl	Above Mean Sea Level
AOC	Area of Concern
ARAR	Applicable or Relevant and Appropriate Requirements
ASTM	American Society for Testing and Materials
AT123D	Analytical Transient 1-, 2-, 3- Dimensional
bgs	Below Ground Surface
BRAC	Base Realignment and Closure
BSV	Background Screening Value
Camp Ravenna	Camp Ravenna Joint Military Training Center
CAMU	Corrective Action Management Unit
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CMCOC	Contaminant Migration Chemical of Concern
CMCOPC	Contaminant Migration Chemical of Potential Concern
COC	Chemical of Concern
COPC	Chemical of Potential Concern
COPEC	Chemical of Potential Ecological Concern
CSM	Conceptual Site Model
CUG	Cleanup Goal
DAF	Dilution Attenuation Factor
DERR	Division of Emergency and Remedial Response
DFFO	Director's Final Findings and Orders
DoD	United States Department of Defense
DOT	United States Department of Transportation
DPT	Direct Push Technology
DQO	Data Quality Objective
ELAP	Environmental Laboratory Accreditation Program
EPC	Exposure Point Concentration
ERA	Ecological Risk Assessment
ERS	Ecological Risk Screening
ESA	Endangered Species Act
ESV	Ecological Screening Value
EU	Exposure Unit
FCR	Field Change Request
FS	Feasibility Study
FWCUG	Facility-Wide Cleanup Goal
FWERWP	Facility-Wide Ecological Risk Work Plan
FWGWMP	Facility-Wide Groundwater Monitoring Program
FWHHRAM	Facility-Wide Human Health Risk Assessors Manual

ACRONYMS AND ABBREVIATIONS (CONTINUED)

FWQAPP	Facility-Wide Quality Assurance Project Plan
FWSAP	Facility-Wide Sampling and Analysis Plan
gpm	Gallons Per Minute
GPS	Global Positioning System
GRA	General Response Action
GSSL	Generic Soil Screening Level
HELP	Hydrologic Evaluation of Landfill Performance
HHRA	Human Health Risk Assessment
HHRS	Human Health Risk Screening
HI	Hazard Index
HLC	Henry's Law Constant
HQ	Hazard Quotient
IDW	Investigation-derived Waste
ILCR	Incremental Lifetime Cancer Risk
INRMP	Integrated Natural Resources Management Plan
IRIS	Integrated Risk Information System
IRP	Installation Restoration Program
ISM	Incremental Sampling Methodology
LCS	Laboratory Control Sample
LDR	Land Disposal Restriction
LUC	Land Use Control
MARC	Multiple Award Remediation Contract
MCL	Maximum Contaminant Level
MDC	Maximum Detected Concentration
MDL	Method Detection Limit
MI	Multi-increment
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MTR	Minimum Technical Requirement
NCP	National Oil and Contingency Plan
NEPA	National Environmental Protection Act
NFA	No Further Action
NGB	National Guard Bureau
NOAEL	No Observable Adverse Effect Level
NPL	National Priorities List
O&M	Operation and Maintenance
OAC	Ohio Administrative Code
OHARNG	Ohio Army National Guard
Ohio EPA	Ohio Environmental Protection Agency
PAH	Polycyclic Aromatic Hydrocarbon

ACRONYMS AND ABBREVIATIONS (CONTINUED)

PBA	Performance Based Acquisition
PBA08 RI	Performance Based Acquisition 2008 Remedial Investigation
PBA08 SAP	Performance Based Acquisition 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1
PBT	Persistent, Bioaccumulative, and Toxic
PCB	Polychlorinated Biphenyl
PETN	Pentaerythritol Tetranitrate
PP	Proposed Plan
PPE	Personal Protective Equipment
PRG	Preliminary Remediation Goal
QA	Quality Assurance
QC	Quality Control
QSM	Quality Systems Manual
RAB	Restoration Advisory Board
RAFLU	Reasonable and Anticipated Future Land Use
RAO	Remedial Action Objective
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RDA	Recommended Daily Allowance
RDI	Recommended Daily Intake
REIMS	Ravenna Environmental Information Management System
RfD	Reference Dose
RI	Remedial Investigation
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
RSL	Regional Screening Level
RVAAP	Ravenna Army Ammunition Plant
SAIC	Science Applications International Corporation
SAP	Sampling and Analysis Plan
SESOIL	Seasonal Soil Compartment Model
SOR	Sum of Ratio
SRC	Site-Related Contaminant
SSL	Soil Screening Level
SSSL	Site-Specific Soil Screening Level
SVOC	Semi-Volatile Organic Compound
SWPPP	Storm Water Pollution Prevention Plan
TAL	Target Analyte List
TCLP	Toxicity Characteristic Leaching Procedure
TestAmerica	TestAmerica Laboratories, Inc.
TNT	2,4,6-Trinitrotoluene
TR	Target Risk

ACRONYMS AND ABBREVIATIONS (CONTINUED)

TU	Temporary Unit
UHC	Underlying Hazardous Constituent
URF	Unit Risk Factor
USACHPPM	United States Army Center for Health Promotion and Preventative Medicine
USACE	U.S. Army Corps of Engineers
USDA	United States Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USFS	United States Forest Service
UTS	Universal Treatment Standard
VOC	Volatile Organic Compound
WOE	Weight-of-Evidence

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EXECUTIVE SUMMARY

ES.1 INTRODUCTION AND SCOPE

This Remedial Investigation (RI)/Feasibility Study (FS) report addresses soil, sediment, and surface water at Anchor Test Area at the Ravenna Army Ammunition Plant (RVAAP). Anchor Test Area is designated as area of concern (AOC) RVAAP-48. This document was prepared by Science Applications International Corporation (SAIC) under the United States Army Corps of Engineers (USACE), Louisville District, Multiple Award Remediation Contract (MARC) W912QR-04-D-0028, Delivery Order No. 0001, entitled 2008 Performance Based Acquisition (PBA) for Environmental Investigation and Remediation at RVAAP. This RI/FS report was prepared in accordance with the Ohio Environmental Protection Agency (Ohio EPA) *Director's Final Findings and Orders* (DFFO) for RVAAP, dated June 10, 2004, and conforms with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and National Contingency Plan (NCP) requirements.

This RI/FS report for Anchor Test Area presents the following:

- A description of the operational history and environmental setting for the AOC.
- A summary of the field activities and results of the Performance Based Acquisition 2008 Remedial Investigation (PBA08 RI) conducted from February 2010 through April 2010 at the AOC.
- A description of the nature and extent of contamination, including the identification of site-related contaminants (SRCs) by screening all eligible data against the background concentration, essential human nutrients, and frequency of detection/weight-of-evidence (WOE) screening.
- An evaluation of contaminant fate and transport by identifying contaminant migration chemicals of potential concern (CMCOPCs) and contaminant migration chemicals of concern (CMCOCs) that may pose a future threat to groundwater.
- A human health risk assessment (HHRA) to identify COCs and an ecological risk assessment (ERA) to identify chemicals of potential ecological concern (COPECs).
- Conclusions of the RI report, including the identification and extent of chemicals of concern (COCs), which form the basis for conducting the FS.
- Identification of the remedial action objective (RAO) for contaminated media at the AOC.
- Identification of applicable or relevant and appropriate requirements (ARARs).

- Identification of general response actions (GRAs) and screening of a range of remedial technologies to reduce risks to human health and the environment at the AOC from COCs identified in the RI report.

- Development of remedial alternatives from appropriate GRAs and remedial technologies and evaluation of alternatives against criteria specified by CERCLA.

- Conclusions of the FS and a recommended alternative.

Surface water and sediment, as defined by RVAAP guidelines, are not present on the AOC. Groundwater is not specifically evaluated in this RI/FS report; groundwater monitoring wells are not present at the AOC and data are not available. Groundwater will be evaluated (including risk assessment) as an individual AOC for the entire facility (designated as RVAAP-66) and addressed in a separate report. This RI/FS report includes modeling to evaluate the potential for soil contaminants to leach to, and migrate in, groundwater to determine whether soil remedial actions to protect groundwater may be necessary.

ES.2 AOC DESCRIPTION

Anchor Test Area is located in the south-central portion of RVAAP, west of Wilcox-Wayland Road, south of Newton Falls Road, and north of South Service Road. Although operational information about Anchor Test Area is relatively limited, the AOC was used for research, development, and the testing of explosively-driven soil anchoring devices. The dates of use for Anchor Test Area are unknown, although it is believed testing activities did not occur until after 1961.

Anchor Test Area encompasses approximately 0.5 acres and includes several dirt mounds with a nearby sand pit approximately 12 ft by 36 ft. Metal debris has been observed in the area. The non-operational areas of Anchor Test Area are heavily forested, and the former operational areas of the AOC are covered with trees, rough grasses, and scrub vegetation. The area immediately surrounding Anchor Test Area is forested except for a clearing approximately 500 ft south of the AOC that is occupied by a large wetland. The land within and immediately surrounding the AOC has only small topographic relief. Thus, much of the precipitation landing on this area is expected to infiltrate the soil rather than runoff. The high percentage of vegetative ground cover at the AOC helps increase infiltration and decrease erosion.

Anchor Test Area is currently inactive; however, the Ohio Army National Guard (OHARNG) projected future land use, based on the anticipated training mission and utilization of Camp Ravenna Joint Military Training Center (Camp Ravenna), is dismounted military training with digging.

ES.3 FINDINGS AND RECOMMENDATIONS OF THE REMEDIAL INVESTIGATION

Quality assured sample data were collected during the Characterization of 14 AOCs [as documented in the *Characterization of 14 AOCs at the Ravenna Army Ammunition Plant* (MKM 2007)] in 2004 and the PBA08 RI in 2010. The 2004 samples were collected using both discrete and incremental

sampling methods (ISM). New data acquisition as part of the PBA08 RI focused on delineating the extent of chemicals identified in surface soil [0-1 ft below ground surface (bgs)] during prior investigations and characterization of subsurface soil, which had not been previously sampled. Data quality objectives (DQOs) and the scope of the PBA08 RI were outlined in the *PBA 2008 Supplemental Investigation Sampling Analysis Plan Addendum No. 1* (USACE 2009a). PBA08 RI sampling completed for Anchor Test Area included:

- Two ISM surface soil samples (ATAss-016M and ATAss-015M) from 0-1 ft below ground surface (bgs) to delineate chemicals above screening levels in previously collected samples;

- Three discrete surface soil samples (ATAss-012, ATAss-013, and ATAss-014) for chromium speciation analysis;

- Five soil borings (ATAsb-006, ATAsb-008, ATAsb-009, ATAsb-010, and ATAsb-0011) in the former operational area to collect discrete surface and subsurface soil samples; and

- One soil boring (ATAsb-007) to collect undisturbed samples for geotechnical analysis.

ES.3.1 Summary of Contaminant Nature and Extent

The RI evaluated all available data with respect to usability and identified SRCs. Figure ES-1 illustrates all sample locations deemed usable for this RI/FS report. The evaluation of contaminant nature and extent focused on identified SRCs; key findings are as follows:

- In surface soil, the highest concentrations of inorganic SRCs were observed at historical ISM sample locations ATAss-005M and ATAss-001M and at PBA08 RI sample locations ATAss-015M and ATAss-016M. These samples also contained the greatest number of inorganic SRCs per sample above background concentrations. Four semi-volatile organic compounds (SVOCs) [2-methylnaphthalene, benzo(b)fluoranthene, bis(2-ethylhexyl)phthalate, and naphthalene] were identified as SRCs at the AOC; three of these SVOCs occurred at sample location ATAss-015M. No explosives, propellants, volatile organic compounds (VOCs), pesticides, or polychlorinated biphenyls (PCBs) were detected in surface soil.

- In subsurface soil, detectable concentrations of cadmium and silver were ubiquitous, although no spatial or vertical trends were evident. Both metals occurred within a narrow range of concentrations. One SVOC [bis(2-ethylhexy)phthalate] and two VOCs (methylene chloride and toluene) were detected in subsurface soil samples collected at location ATAsb-008. Explosives, propellants, pesticides, and PCBs were not detected in any subsurface soil sample. Unconsolidated overburden is greater than 13 ft in thickness across the AOC. Groundwater was encountered at a depth of about 10 ft bgs.

ES.3.2 Summary of Contaminant Fate and Transport

Soil screening analyses identified two SRCs (arsenic and naphthalene) with maximum soil concentrations exceeding soil screening criteria and estimated travel times to reach the water table in less than 1,000 years. These chemicals were identified as initial CMCOPCs and were evaluated using the Seasonal Soil compartment model (SESOIL). Arsenic concentrations in leachate beneath the sample area ATAss-005M were predicted to exceed the United States Environmental Protection Agency (USEPA) Safe Drinking Water Act maximum contaminant level (MCL) (0.01 mg/L) and the RVAAP facility-wide background concentration for unconsolidated groundwater (0.0117 mg/L) at a future point in time. Naphthalene was screened out based on SESOIL modeling results.

Arsenic was further evaluated using the Analytical Transient 1-, 2-, 3-Dimensional (AT123D) groundwater transport model. Based on AT123D model results, the maximum predicted concentration in groundwater beneath the source area (0.0473 mg/L) was predicted to exceed the MCL (0.01 mg/L) and the RVAAP facility-wide background concentration for unconsolidated groundwater (0.0117 mg/L) at a future point in time. The maximum predicted concentration of arsenic (0.000587 mg/L) at the downgradient receptor (wetland area approximately 200 ft to the southeast of Anchor Test Area) did not exceed the screening criteria and was eliminated as a CMCOC.

Based on soil screening analysis and the fate and transport evaluation, all SRCs identified in the surface soil and subsurface soil sample aggregates were eliminated as posing future impacts to groundwater.

ES.3.3 Summary and Conclusions of the Human Health Risk Assessment

The HHRA identified COCs and conducted risk management analysis to determine those COCs requiring evaluation in an FS based on potential risk to human receptors. The representative human receptor scenario for the HHRA is the National Guard Trainee based on the Reasonable and Anticipated Future Land Use (RAFLU) for Anchor Test Area. The risk assessment also evaluates a Resident Farmer receptor scenario to represent an unrestricted land use option. Exposure units (EUs) evaluated in the HHRA are shallow surface soil (0-1 ft bgs), deep surface soil (1-4 ft bgs) for the National Guard Trainee, and subsurface soil for the National Guard Trainee (4-7 ft bgs) and Resident Farmer (1-13 ft bgs).

Arsenic is a COC in one ISM shallow surface soil sample (ATAss-005M) for both the National Guard Trainee and the Resident Farmer receptors. No COCs occur in deep surface soil samples for the National Guard Trainee or in subsurface soil for either receptor.

ES.3.4 Summary and Conclusions of the Ecological Risk Assessment

There are four integrated soil COPECs based on the historical and current information at the Anchor Test Area: arsenic, chromium, manganese, and mercury. The number of COPECs is low. Ecological resources at Anchor Test Area were compared to the list of important ecological places and resources.

None of the 39 important places were present, and there is nothing ecologically significant at Anchor Test Area. The ERA summarizes the chemicals and resources in detail to demonstrate there is a small amount of contamination at the Anchor Test Area, but no important or significant ecological resources are present. Consequently, the ERA for Anchor Test Area concludes with a Level I Scoping Level Risk Assessment, with a recommendation of no further action (NFA) from the ecological risk perspective.

ES.3.5 Recommendations of the Remedial Investigation

Based on the RI, no further investigation is recommended for Anchor Test Area. The RI recommends proceeding to the FS phase to evaluate arsenic contamination in shallow surface soil at ISM sampling area ATAss-005M that exceeds facility-wide cleanup goals (FWCUGs) for National Guard Trainee and Resident Farmer receptors (Figure ES-1). Table ES-1 summarizes the COCs and their recommended cleanup goals (CUGs) for each evaluated future land use.

Table ES-1. Summary of COCs Identified for Evaluation in the FS

Media	Chemical of Concern	Cleanup Goal (mg/kg)
National Guard Trainee		
Shallow Surface Soil (0-1 ft bgs)	Arsenic	31[a]
Resident Farmer		
Shallow Surface Soil (0-1 ft bgs)	Arsenic	15.4[b]

[a] Cleanup goal (CUG) for arsenic in surface soil for the National Guard Trainee is the precedent CUG of 31 mg/kg from the *Interim Record of Decision for the Remediation of Soils at Load Lines 1 through 4* (USACE 2007a) and the *Record of Decision for Soil and Dry Sediment for RVAAP-12 Load Line 12* (USACE 2009b) as documented in Table 5-12 of the *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010a).
[b]CUG for residential land use is the facility-wide background concentration for RVAAP published in the *Phase II Remedial Investigation Report for Winklepeck Burning Grounds* (USACE 2001b) because the Facility-Wide Cleanup Goal (FWCUG) for the Resident Farmer is less than the background concentration.
bgs = below ground surface
COC = Chemical of Concern
mg/kg = milligrams per kilogram

Analyses of remedial alternatives are not warranted for subsurface soil greater than 1 ft bgs, based on the absence of human health COCs; NFA is recommended for this media. Soil remediation to protect groundwater is not warranted because: (1) contaminant leaching and fate and transport modeling results did not identify CMCOCs; and (2) groundwater has a depth greater than 5 ft bgs and is not considered an exposure medium to ecological receptors. Additionally, the ERA concluded there may be potential ecological risk but did not identify affected ecological resources associated with Anchor Test Area. As a result, the ERA recommended NFA for ecological resources.

ES.4 Summary and Recommendation of the Feasibility Study

The FS develops the RAO, identifies appropriate CUGs for remedial actions, identifies ARARs, screens potential remedial technologies and process options, and develops and evaluates remedial alternatives.

ES.4.1 Remedial Action Objective and Cleanup Goals

The RAO for Anchor Test Area is to prevent: (1) National Guard Trainee exposure to identified COCs in soil above CUGs; (2) adverse ecological effects from previous AOC activities; and (3) negative groundwater impacts from contaminant migration from source media (e.g., soil).

The most likely foreseeable land use for the AOC is National Guard Training. A Residential Land Use provides a baseline for evaluating whether the AOC may be eligible for unrestricted future use. In either land use, arsenic was identified as the only COC for remediation based on the HHRA and guidelines provided in the *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010a) (herein referred to as the FWCUG Report). The National Guard Trainee FWCUG for arsenic in shallow surface soil is 31 mg/kg, as documented in Table 5-12 of the FWCUG Report. The Resident Farmer FWCUG for arsenic in shallow surface soil (4.25 mg/kg) is lower than the facility-wide background concentration (15.4 mg/kg). Therefore, the facility-wide background concentration is the CUG for the Resident Farmer, is protective for the National Guard Trainee, and provides the requisite level of protectiveness for unrestricted land use.

ES.4.2 Development and Evaluation of Alternatives

The FS screens remedial technologies and process options and develops the following viable remedial alternatives developed:

- Alternative 1: No Action
- Alternative 2: Attain National Guard Training and Residential Land Uses
  - Shallow Surface Soil (0-1 ft bgs) – Excavation with Off-site Disposal
  - Deep Surface Soil (1-4 ft bgs) – NFA
  - Subsurface Soil (1-13 ft bgs) – NFA

The No Action alternative, required for evaluation under the NCP, provides the baseline against which other remedial alternatives are compared. This alternative assumes all current actions (e.g., access restrictions and environmental monitoring) are discontinued and assumes no future actions take place to protect human receptors or the environment. Removal or treatment of COCs at the AOC will not be implemented.

Alternative 2 will remove shallow surface soil (0-1 ft bgs) exceeding the arsenic CUG for the Resident Farmer (15.4 mg/kg) at sampling location ATAss-005M. Soil will be disposed off-site at an approved, licensed facility. The extent of the excavation is depicted on Figure ES-1 and the estimated total disposal volume (i.e., ex situ) is approximately 14 yd^3. Backfilling and restoration of the excavated area will be conducted in accordance with RVAAP requirements. This alternative does not require land use controls (LUCs) or five-year reviews as it attains a requisite level of protectiveness for unrestricted use.

The FS evaluates alternatives with respect to CERCLA threshold and balancing criteria and presents a comparative analysis to justify the selection of a recommended alternative. Table ES-2 summarizes the comparative analysis of the alternatives.

ES.4.3 Recommended Alternative

The recommended alternative for Anchor Test Area is Alternative 2: Attain National Guard Training and Residential Land Uses. Shallow surface soil (0-1 ft bgs) at location ATAss-005M will be excavated by mechanical equipment and disposed off-site in an approved, licensed facility. Confirmation samples will be collected along excavation sidewalls using ISM to verify the extent of excavation is below the CUG or if further lateral removal of soil is required. If the excavation extends to a previously sampled ISM sampling area that had a concentration less than the CUG (e.g., ATAss-016M), excavation will stop and confirmation sampling on the corresponding sidewall will not be required. The excavated areas will be backfilled with clean soil from an Ohio EPA-approved off-site source, re-vegetated using OHARNG-approved native seed mixtures, and mulched. Assuming removal beyond the extent of ATAss-005M is not needed, the estimated cost for the alternative is $93,967. Successful implementation of the alternative attains a requisite level of protectiveness for soil for unrestricted land use (e.g., National Guard Trainee and Resident Farmer). Therefore, LUCs and five-year reviews will not be required following the remedy.

Table ES-2. Summary of Comparative Analysis of Remedial Alternatives

NCP Evaluation Criteria	**Alternative 1: No Action**		**Alternative 2: Attain National Guard Training and Residential Land Uses**	
Threshold Criteria	***Result***		***Result***	
1. Overall Protectiveness of Human Health and the Environment	Not protective		Protective	
2. Compliance with ARARs	Compliant		Compliant	
Balancing Criteria	***Ranking***	***Score***	***Ranking***	***Score***
3. Long-Term Effectiveness and Permanence	Low	1	High	3
4. Reduction of Toxicity, Mobility, or Volume through Treatment	Low	1	Medium	2
5. Short-Term Effectiveness	High	3	Medium	2
6. Implementability	High	3	Medium	2
7. Cost	High	3	Medium	2
Balancing Criteria Score		*11*		*11*

"High" = highly favorable situation
"Medium" = moderately favorable situation
"Low" = situation that is not favorable
Scoring for the Balancing Criteria is as follows: High = 3, Medium = 2, Low = 1
ARAR = Applicable or Relevant and Appropriate Requirements
NCP = National Contingency Plan

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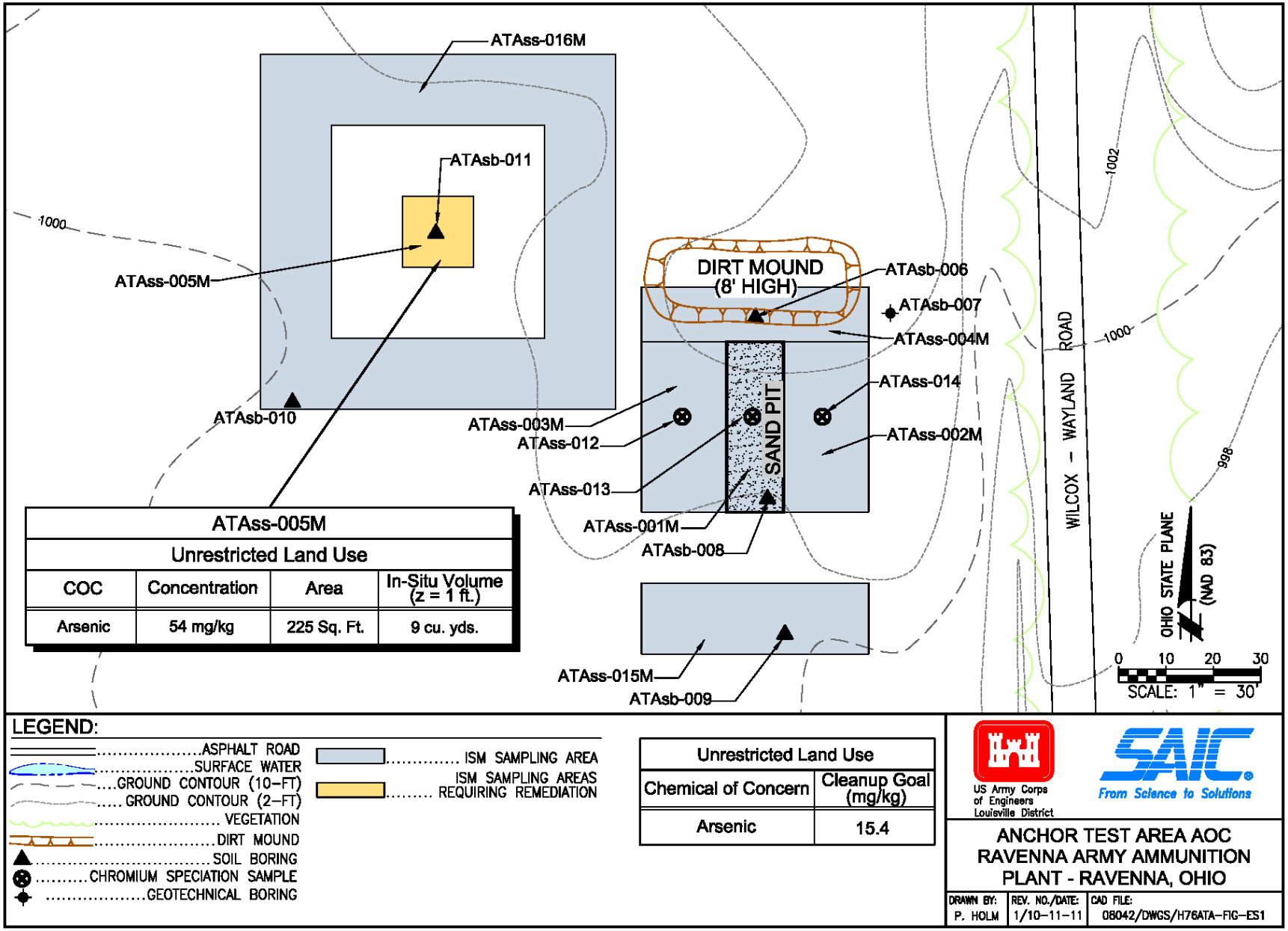

Figure ES-1. Estimated Extent of Surface Soil Excavation Under the Recommended Alternative

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1.0 INTRODUCTION

Science Application International Corporation (SAIC) has been contracted by the United States Army Corps of Engineers (USACE), Louisville District to provide environmental services to achieve response complete, remedy in place, or site closeout, as documented in an approved Record of Decision (ROD) for the area of concern (AOC) Anchor Test Area (designated as RVAAP-48) within the Ravenna Army Ammunition Plant (RVAAP) in Ravenna, Ohio (Figures 1-1 and 1-2). This work is being performed in accordance with USACE, Louisville District, Multiple Award Remediation Contract (MARC) W912QR-04-D-0028, Delivery Order No. 0001, under a Performance Based Acquisition (PBA).

Planning and performance of all elements of this PBA are in accordance with the requirements of the Ohio Environmental Protection Agency (Ohio EPA) *Director's Final Findings and Orders* (DFFO) for RVAAP, dated June 10, 2004 (Ohio EPA 2004). The DFFO requires conformance with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Contingency Plan (NCP) to implement a remedial investigation (RI) to characterize the AOC, develop a feasibility study (FS) report to develop and evaluate remedial alternatives to address contamination presenting unacceptable risk to human health and the environment, present a recommended remedial alternative in a proposed plan (PP), and document stakeholder selection and acceptance of the preferred final remedy in a ROD. Figure 1-3 presents this process.

This document is a combined RI and FS report and includes:

- A description of the operational history and environmental setting for the AOC.
- A summary of the field activities and results of the Performance Based Acquisition 2008 Remedial Investigation (PBA08 RI) conducted from February 2010 through April 2010 at the AOC.
- A description of the nature and extent of contamination including the identification of site-related contaminants (SRCs) by screening all eligible data against the background concentration, essential human nutrients, and frequency of detection/weight-of-evidence (WOE) screening.
- An evaluation of contaminant fate and transport by identifying contaminant migration chemicals of potential concern (CMCOPCs) and contaminant migration chemicals of concern (CMCOCs) that may pose a future threat to groundwater.
- A human health risk assessment (HHRA) to identify chemicals of concern (COCs) and an ecological risk assessment (ERA) to identify chemicals of potential ecological concern (COPECs).
- Conclusions of the RI report, including the identification and extent of COCs, which form the basis for conducting the FS.

- Identification of the remedial action objective (RAO) for contaminated media at the AOC.

- Identification of applicable or relevant and appropriate requirements (ARARs).

- Identification of general response actions (GRAs) and screening of a range of remedial technologies to reduce risks to human health and the environment at the AOC from COCs identified in the RI report.

- Development of remedial alternatives from appropriate GRAs and remedial technologies, and evaluation of alternatives against criteria specified by CERCLA.

- Conclusions of the FS and a recommended alternative.

Based on the outcome of the evaluation in this RI/FS report, the recommended alternative will be submitted for public review and comment in a PP. Public comments will be considered in the final selection of a remedy, which will be documented in a ROD.

1.1 PURPOSE

The purpose of the PBA08 RI at Anchor Test Area is to supplement the data from previous sampling events to delineate the nature and extent of contamination, evaluate contaminant fate and transport, and complete an HHRA and ERA to support remedial decisions. Depending on the results of the RI, a recommendation is provided for either no further action (NFA) or an FS to evaluate potential remedies and future actions. The purpose of the FS is to identify the RAO and appropriate cleanup goals (CUGs), screen remedial technologies, develop remedial alternatives to meet the RAO and attain CUGs, and perform a detailed evaluation of remedial alternatives to identify a recommended remedy.

1.2 SCOPE

The scope of this RI/FS report is to present (1) the nature and extent of contamination, fate and transport of chemicals in the environment, and risk assessments for surface and subsurface soil at the AOC; (2) the results of the evaluation of remedial alternatives for meeting the RAO for any COCs identified in these media at the AOC; and (3) a recommendation for either NFA or a recommended alternative to present to the public in a PP. If remedial actions are warranted, the recommended alternative will achieve required risk reductions to protect human health and the environment and attain all ARARs. In accordance with CERCLA, remedial alternatives are to be cost effective; use permanent solutions and alternative treatment technologies to the maximum extent practicable; and satisfy the preference for treatment that reduces volume, toxicity, or mobility to the maximum practical extent.

For the purposes of this report, the term “surface soil” includes dry sediment. Dry sediment refers to unconsolidated inorganic and organic material within conveyances, ditches, or low-lying areas that

occasionally may be covered with water, usually following a precipitation event or due to snowmelt. Dry sediment is not covered with water for extended periods and typically is dry within seven days of a precipitation event. Dry sediment does not function as a permanent habitat for aquatic organisms, although it may serve as a natural medium for the growth of terrestrial organisms. Dry sediment is addressed the same as surface soil [0-1 ft below ground surface (bgs)] in terms of contaminant nature and extent, fate and transport, and risk exposure models. The term "sediment," as used in this report, refers to wet sediment within conveyances, ditches, wetlands, or water bodies that is inundated for extended periods. These definitions and terminology are consistent with the *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010a) (herein referred to as the FWCUG Report).

Surface water and sediment, as defined by RVAAP guidelines, are not present on the AOC. Potential impacts to groundwater from soil (e.g., contaminant leaching) are evaluated in this report, as protectiveness to groundwater is included in the evaluation of remedial alternatives for these media. However, potential groundwater remedies, if required, will be assessed in a separate report. There are no extant buildings or structures at the AOC and therefore are not evaluated as continuing sources of contamination in this report.

1.3 REPORT ORGANIZATION

This RI/FS report is organized in accordance with Ohio EPA and U.S. Environmental Protection Agency (USEPA) CERCLA RI/FS guidance, as well as applicable USACE guidance. Below is a summary of the components of the report and appendices:

- Section 2.0 provides a description and history of RVAAP and the Anchor Test Area operational area.

- Section 3.0 describes the environmental setting at RVAAP and Anchor Test Area, including the geology, hydrogeology, climate, population, and ecological resources.

- Section 4.0 describes the specific RI methods used for field data collection for the PBA08 RI and the approach to analytical data management and laboratory programs.

- Section 5.0 presents the data generated during the PBA08 RI and discusses the occurrence and distribution of contamination at the AOC.

- Section 6.0 presents an evaluation of contaminant fate and transport.

- Section 7.0 includes the methods and results of the HHRA and ERA.

- Section 8.0 provides the conclusions and recommendations of the RI.

- Section 9.0 outlines the development of the RAO for the chemicals and media of concern.

- Section 10.0 summarizes potential federal and state chemical-, location-, and action-specific ARARs for the potential remedial actions.

- Section 11.0 presents GRAs and the identification and screening of technology types and process options considered for possible use in remediation.

- Section 12.0 develops remedial alternatives from technologies and process options that passed initial screening and presents an initial evaluation against effectiveness, implementability, and cost.

- Section 13.0 presents the detailed and comparative analyses of viable remedial action alternatives developed to address chemicals and media of concern using the seven criteria specified by USEPA CERCLA guidance.

- Section 14.0 summarizes the framework for conducting the necessary agency and public involvement activities.

- Section 15.0 presents the conclusions of the FS and the recommended remedial alternative.

- Section 16.0 provides a list of references used to develop this report.

Appendices:

Appendix A: Field Sampling Logs;
Appendix B: Project Quality Assurance Summary;
Appendix C: Data Quality Control Summary Report;
Appendix D: Laboratory Analytical Results;
Appendix E: Fate and Transport Modeling Results;
Appendix F: Investigation-derived Waste Management Reports;
Appendix G: Human Health Risk Assessment Tables;
Appendix H: Ecological Risk Assessment Information and Data; and
Appendix I: Detailed Cost Estimates.

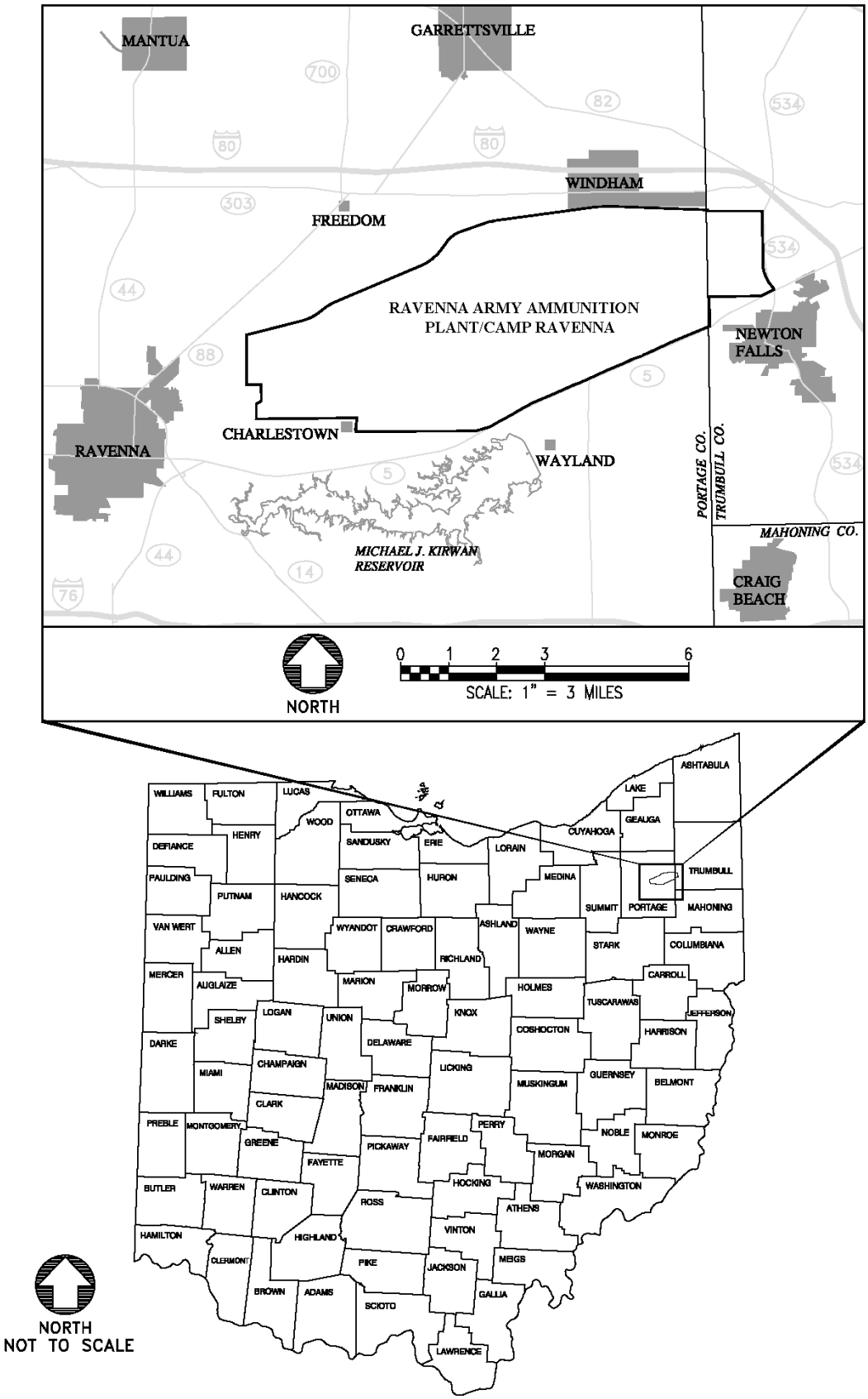

Figure 1-1. General Location and Orientation of RVAAP/Camp Ravenna

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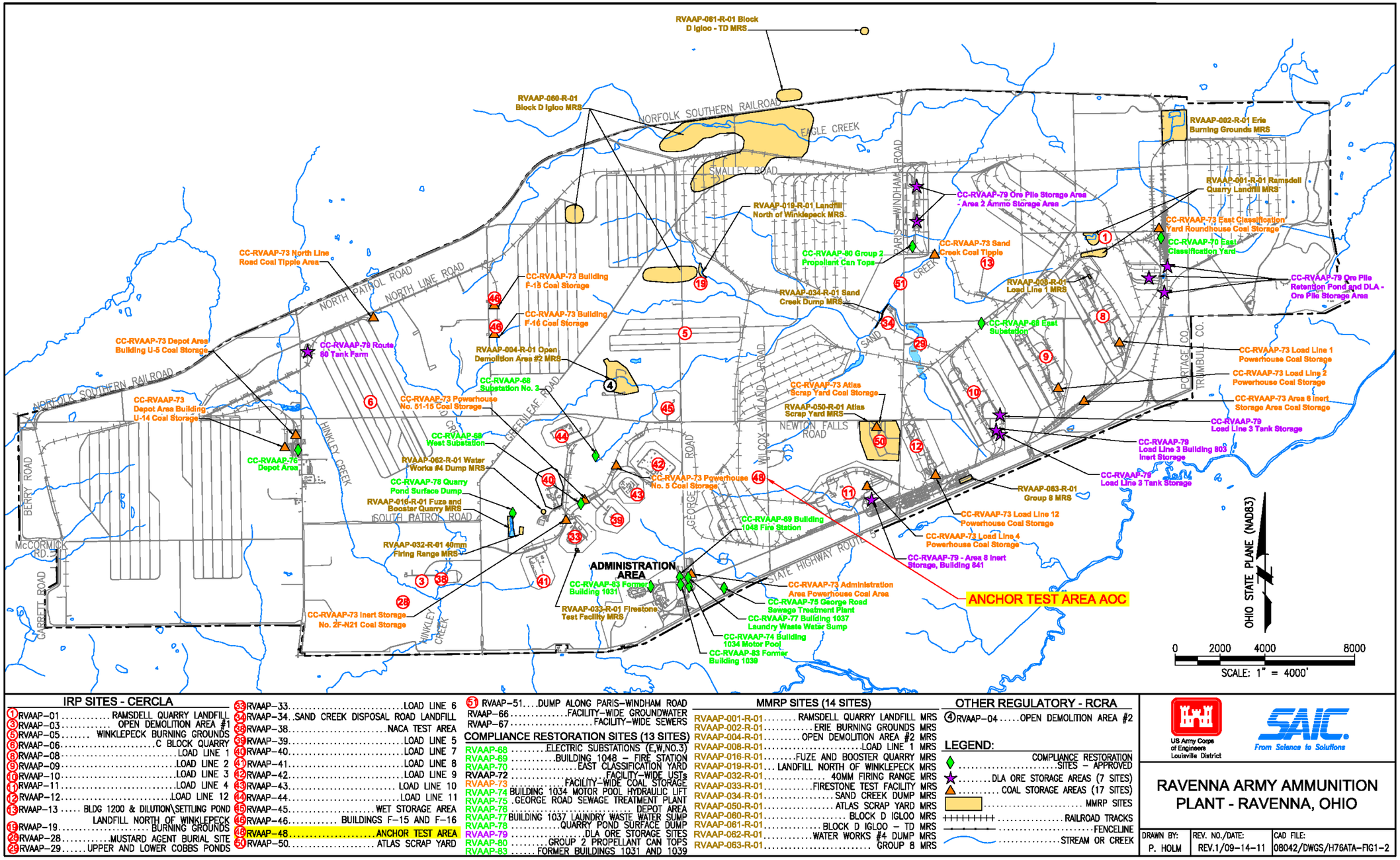

IRP SITES - CERCLA

1 RVAAP-01 ..... RAMSDELL QUARRY LANDFILL
3 RVAAP-03 ..... OPEN DEMOLITION AREA #1
5 RVAAP-05 ..... WINKLEPECK BURNING GROUNDS
6 RVAAP-06 ..... C BLOCK QUARRY
8 RVAAP-08 ..... LOAD LINE 1
9 RVAAP-09 ..... LOAD LINE 2
10 RVAAP-10 ..... LOAD LINE 3
11 RVAAP-11 ..... LOAD LINE 4
12 RVAAP-12 ..... LOAD LINE 12
13 RVAAP-13 ..... BLDG 1200 & DILUTION\SETTLING POND
LANDFILL NORTH OF WINKLEPECK
19 RVAAP-19 ..... BURNING GROUNDS
28 RVAAP-28 ..... MUSTARD AGENT BURIAL SITE
29 RVAAP-29 ..... UPPER AND LOWER COBBS PONDS
33 RVAAP-33 ..... LOAD LINE 6
34 RVAAP-34 ..SAND CREEK DISPOSAL ROAD LANDFILL
38 RVAAP-38 ..... NACA TEST AREA
39 RVAAP-39 ..... LOAD LINE 5
40 RVAAP-40 ..... LOAD LINE 7
41 RVAAP-41 ..... LOAD LINE 8
42 RVAAP-42 ..... LOAD LINE 9
43 RVAAP-43 ..... LOAD LINE 10
44 RVAAP-44 ..... LOAD LINE 11
45 RVAAP-45 ..... WET STORAGE AREA
46 RVAAP-46 ..... BUILDINGS F-15 AND F-16
48 RVAAP-48 ..... ANCHOR TEST AREA
50 RVAAP-50 ..... ATLAS SCRAP YARD
51 RVAAP-51 ....DUMP ALONG PARIS-WINDHAM ROAD
RVAAP-66 ..... FACILITY-WIDE GROUNDWATER
RVAAP-67 ..... FACILITY-WIDE SEWERS

COMPLIANCE RESTORATION SITES (13 SITES)

RVAAP-68 ..... ELECTRIC SUBSTATIONS (E,W,NO.3)
RVAAP-69 ..... BUILDING 1048 - FIRE STATION
RVAAP-70 ..... EAST CLASSIFICATION YARD
RVAAP-72 ..... FACILITY-WIDE USTs
RVAAP-73 ..... FACILITY-WIDE COAL STORAGE
RVAAP-74 BUILDING 1034 MOTOR POOL HYDRAULIC LIFT
RVAAP-75 .GEORGE ROAD SEWAGE TREATMENT PLANT
RVAAP-76 ..... DEPOT AREA
RVAAP-77 BUILDING 1037 LAUNDRY WASTE WATER SUMP
RVAAP-78 ..... QUARRY POND SURFACE DUMP
RVAAP-79 ..... DLA ORE STORAGE SITES
RVAAP-80 ..... GROUP 2 PROPELLANT CAN TOPS
RVAAP-83 ..... FORMER BUILDINGS 1031 AND 1039

MMRP SITES (14 SITES)

RVAAP-001-R-01 ..... RAMSDELL QUARRY LANDFILL MRS
RVAAP-002-R-01 ..... ERIE BURNING GROUNDS MRS
RVAAP-004-R-01 ..... OPEN DEMOLITION AREA #2 MRS
RVAAP-008-R-01 ..... LOAD LINE 1 MRS
RVAAP-016-R-01 ..... FUZE AND BOOSTER QUARRY MRS
RVAAP-019-R-01 ... LANDFILL NORTH OF WINKLEPECK MRS
RVAAP-032-R-01 ..... 40MM FIRING RANGE MRS
RVAAP-033-R-01 ..... FIRESTONE TEST FACILITY MRS
RVAAP-034-R-01 ..... SAND CREEK DUMP MRS
RVAAP-050-R-01 ..... ATLAS SCRAP YARD MRS
RVAAP-060-R-01 ..... BLOCK D IGLOO MRS
RVAAP-061-R-01 ..... BLOCK D IGLOO - TD MRS
RVAAP-062-R-01 ..... WATER WORKS #4 DUMP MRS
RVAAP-063-R-01 ..... GROUP 8 MRS

OTHER REGULATORY - RCRA

4 RVAAP-04 ..... OPEN DEMOLITION AREA #2

LEGEND:

COMPLIANCE RESTORATION
..... SITES - APPROVED
..... DLA ORE STORAGE AREAS (7 SITES)
..... COAL STORAGE AREAS (17 SITES)
..... MMRP SITES
..... RAILROAD TRACKS
..... FENCELINE
..... STREAM OR CREEK

US Army Corps of Engineers Louisville District

SAIC. From Science to Solutions

RAVENNA ARMY AMMUNITION PLANT - RAVENNA, OHIO

DRAWN BY:	REV. NO./DATE:	CAD FILE:
P. HOLM	REV.1/09-14-11	08042/DWGS/H76ATA-FIG1-2

Figure 1-2. Location of Anchor Test Area at RVAAP/Camp Ravenna

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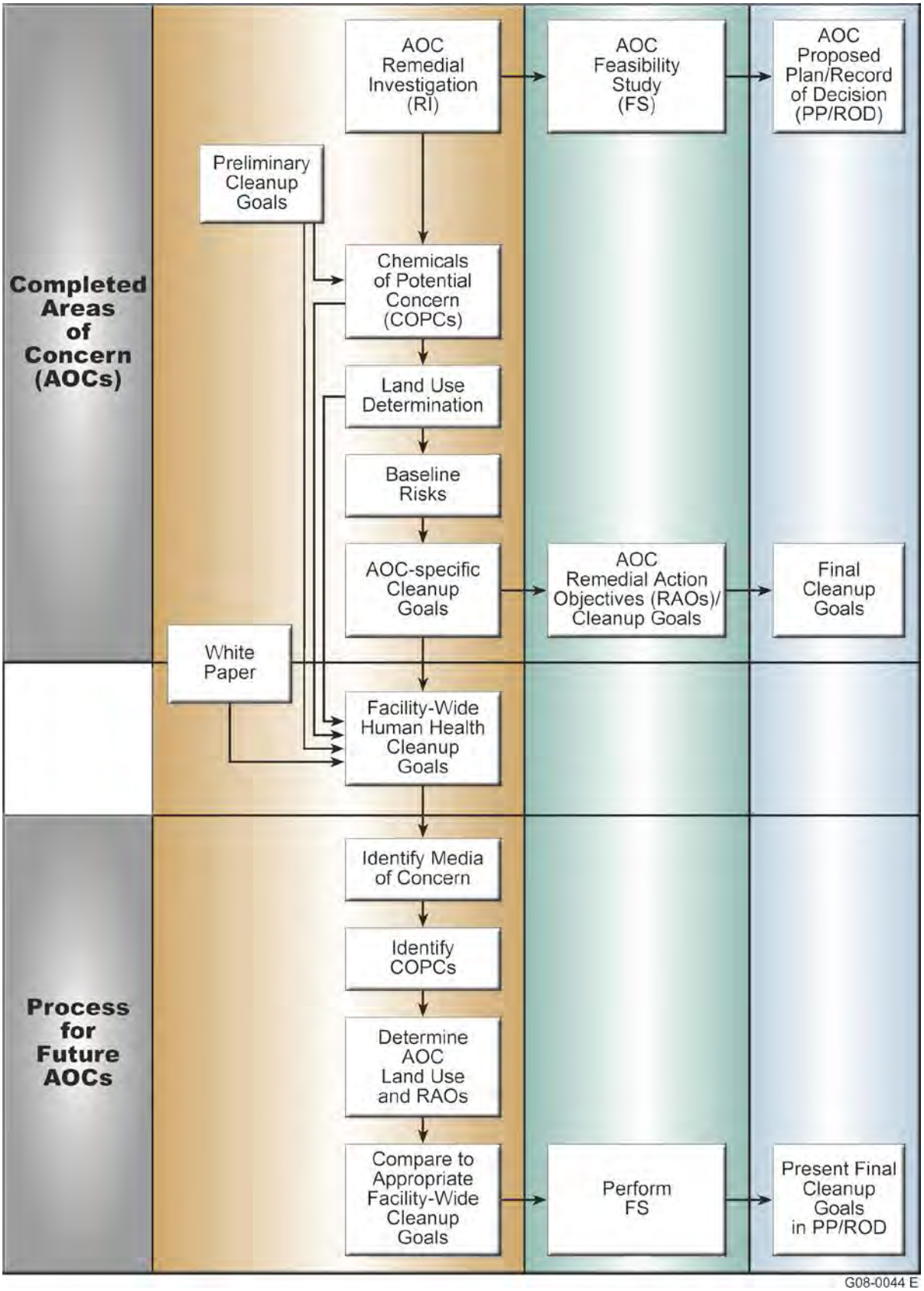

Figure 1-3. Process for Developing Remedial Decisions at RVAAP Areas of Concern

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2.0 BACKGROUND

2.1 FACILITY-WIDE BACKGROUND INFORMATION

2.1.1 General Facility Description

When the RVAAP Installation Restoration Program (IRP) began in 1989, RVAAP was identified as a 21,419-acre facility. The property boundary was resurveyed by Ohio Army National Guard (OHARNG) over a 2-year period (2002 and 2003) and the total acreage of the property was found to be 21,683 acres. As of June 2010, a total of 20,423 acres of the former 21,683-acre RVAAP have been transferred to the National Guard Bureau (NGB) and subsequently licensed to OHARNG for use as a military training site.

The current RVAAP consists of 1,260 acres scattered throughout the OHARNG Camp Ravenna Joint Military Training Center, herein referred to as Camp Ravenna. Camp Ravenna is in northeastern Ohio within Portage and Trumbull counties, approximately 3 miles [4.8 kilometer (km)] east-northeast of the city of Ravenna and approximately 1 mile (1.6 km) northwest of the city of Newton Falls. The RVAAP portions of the property are solely located within Portage County. RVAAP and Camp Ravenna occupy a parcel of property approximately 11 miles (17.7 km) long and 3.5 miles (5.6 km) wide bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad on the south; Garrett, McCormick, and Berry roads on the west; the Norfolk Southern Railroad on the north; and State Route 534 on the east (Figures 1-1 and 1-2). Camp Ravenna is surrounded by several communities: Windham on the north; Garrettsville 6 miles (9.6 km) to the northwest; Newton Falls 1 mile (1.6 km) to the southeast; Charlestown to the southwest; and Wayland 3 miles (4.8 km) to the south.

When RVAAP was operational, Camp Ravenna did not exist and the entire 21,683-acre parcel was a government-owned, contractor-operated, industrial facility. The RVAAP IRP encompasses investigation and cleanup of past activities over the entire 21,683 acres of the former RVAAP. References to RVAAP in this document indicate the historical extent of RVAAP, which is inclusive of the combined acreages of the current Camp Ravenna and RVAAP, unless otherwise specifically stated.

Former industrial operations at RVAAP consisted of 12 munitions-assembly facilities referred to as "load lines." Load Lines 1 through 4 were used to melt and load 2,4,6-trinitrotoluene (TNT) and Composition B into large-caliber shells and bombs. The operations on the load lines produced explosive dust, spills, and vapors that collected on the floors and walls of each building. Periodically, the floors and walls were cleaned with water and steam. Following cleaning, the wastewater, containing TNT and Composition B, was known as "pink water" for its characteristic color. Pink water was collected in concrete holding tanks, filtered, and pumped into unlined ditches for transport to earthen settling ponds. Load Lines 5 through 11 were used to manufacture fuzes, primers, and boosters. Potential contaminants in these load lines include lead compounds, mercury compounds,

and explosives. From 1946 to 1949, Load Line 12 was used to produce ammonium nitrate for explosives and fertilizers prior to use as a weapons demilitarization facility.

In 1950, the facility was placed on standby status and operations were limited to renovation, demilitarization, and normal maintenance of equipment, along with storage of munitions. Production activities were resumed from July 1954 to October 1957 and again from May 1968 to August 1972. In addition to production missions, various demilitarization activities were conducted at facilities constructed at Load Lines 1, 2, 3, and 12. Demilitarization activities included disassembly of munitions and explosives melt-out and recovery operations using hot water and steam processes. Periodic demilitarization of various munitions continued through 1992.

In addition to production and demilitarization activities at the load lines, other facilities at RVAAP include AOCs that were used for the burning, demolition, and testing of munitions. These burning and demolition grounds consist of large parcels of open space or abandoned quarries. Potential contaminants at these AOCs include explosives, propellants, inorganic chemicals, and waste oils. Other types of AOCs present at RVAAP include landfills, an aircraft fuel tank testing facility, and various general industrial support and maintenance facilities.

2.1.2 Demography and Land Use

RVAAP consists of 21,683 acres and is located in northeastern Ohio, approximately 23 miles (37 km) east–northeast of Akron and 30 miles (48.3 km) west–northwest of Youngstown. RVAAP occupies east–central Portage County and southwestern Trumbull County. Census projections for 2010 indicate that the populations of Portage and Trumbull counties are 161,419 and 210,312, respectively. Population centers closest to RVAAP are Ravenna, with a population of 11,724 and Newton Falls, with a population of 4,795.

The RVAAP facility is located in a rural area and is not close to any major industrial or developed areas. Approximately 55% of Portage County, in which the majority of RVAAP is located, consists of either woodland or farmland acreage. The closest major recreational area, the Michael J. Kirwan Reservoir (also known as West Branch Reservoir), is located adjacent to the western half of RVAAP south of State Route 5.

RVAAP is operated by the Base Realignment and Closure (BRAC) Division of the Army which manages the restoration activities at RVAAP. Camp Ravenna (which is located on the remainder of the property) is owned by NGB who licenses it to the OHARNG for use as a military training site. Training and related activities at Camp Ravenna include field operations and bivouac training, convoy training, equipment maintenance, C-130 aircraft drop zone operations, helicopter operations, and storage of heavy equipment.

2.2 ANCHOR TEST AREA BACKGROUND INFORMATION

2.2.1 Operational History

Anchor Test Area is approximately 0.5 acres in size and is located approximately 50-75 ft west of Wilcox-Wayland Road and 2,500 ft south of Newton Falls Road (Figure 2-1). Although operational information is relatively limited about this former research and development area used by The Firestone Tire and Rubber Company Defense Research Division, it is believed that the area was used for testing of explosives-driven soil anchoring devices. These devices were typically metal rods driven into the ground and attached via a cable to stabilize structures or anchor them to the ground. The dates of use for this AOC are unknown; however, a 1961 drawing shows the final design for the AOC; therefore, it is likely it was not active until after the early 1960s. Aerial photographs from 1966 confirm the construction of AOC features, but it is unknown whether Anchor Test Area was active at the time of the photographs.

The distinct surface features of the AOC are the former blast wall dirt mounds and a nearby sandpit. The anchor tests were likely performed within the 12 ft by 36 ft sandpit. The adjacent dirt mounds functioned as blast walls. One mound is approximately 8-10 ft in height while the others are only 1-2 ft in height. The dirt mounds are still observable, although the mounds are overgrown with vegetation and small trees. The sandpit is no longer visually distinct due to vegetative growth. Metal debris is visible in the area, and a section of cement culvert can be seen in one of the dirt mounds. Based upon the culvert's location and orientation, it is suspected the culvert was previously identified as the dirt-covered, 55-gallon, open-end drum used for powder storage in the original 1961 Anchor Test Area drawing.

Currently, the AOC is heavily overgrown with trees, shrubs, and tall grass. The immediate surrounding area is forested except for: (1) a wetland approximately 100 ft away on the east side of Wilcox-Wayland Road within a separate watershed; and (2) a wetland approximately 500 ft south within the same watershed. The wetland to the south is drained by an unnamed stream south of the west branch of the Mahoning River. As the AOC is located on the southern edge of a small topographic high, any surface water not percolating to groundwater flows south directly into the wetland.

2.2.2 Previous Investigations

Anchor Test Area has been included in various assessments and investigations conducted at RVAAP including:

- Relative Risk Site Evaluation for Newly Added Sites (USACHPPM 1998); and
- Characterization of 14 AOCs (MKM 2007).

The various assessments and investigations are summarized in subsequent subsections.

2.2.2.1 Relative Risk Site Evaluation for Newly Added Sites

In 1998, the U.S. Army Center for Health Promotion and Preventative Medicine (USACHPPM) completed the *Relative Risk Site Evaluation for Newly Added Sites* (USACHPPM 1998), which identified and provided a risk evaluation for thirteen newly discovered and previously uninvestigated AOCs for the purpose of prioritizing future remedial or corrective activities. Of the 13 identified AOCs, five AOCs were assigned a Relative Risk Site Evaluation (RRSE) score of "high," and the remaining eight AOCs were assigned a score of "medium."

Based on an evaluation of available data, Anchor Test Area was assigned a RRSE score of "medium" with two media of concern: groundwater and soil. Sediment was not identified at the AOC, and surface water was determined to occur only intermittently as storm water runoff. As described in the *Relative Risk Site Evaluation for Newly Added Sites* (USACHPPM 1998), five surface soil samples and one subsurface soil sample were collected around the dirt mound and in the sand pit at the AOC and analyzed for inorganic chemicals and explosives. A subsurface soil sample was collected from the center of the sand pit at a depth interval of 12-16 ft bgs and was used to estimate groundwater concentrations using a standard linear equilibrium soil/water partition model. Several inorganic chemicals were detected in groundwater (inferred from subsurface soil analysis) and surface soil. No explosives were detected. Surface soil and groundwater were identified as potential migration pathway factors as no physical barriers exist to prevent potential migration, although no evidence of contaminant migration was observed. The RRSE classified Anchor Test Area as a medium-priority AOC due to: (1) potentially contaminated surface soil; and (2) groundwater potentially migrating and impacting human and ecological receptors.

2.2.2.2 Characterization of 14 AOCs

Characterization of 14 AOCs [as described in the *Characterization of 14 AOCs at the Ravenna Army Ammunition Plant* (MKM 2007)] was performed to accomplish the following:

- Provide data for future assessments that may be conducted;
- Develop a conceptual site model (CSM);
- Identify key elements to be considered in future actions;
- Assess potential sources of contamination;
- Identify whether releases of contamination extend beyond the AOC boundary;
- Provide an initial assessment of the nature and lateral extent of contamination; and
- Provide a preliminary human health risk screening (HHRS) evaluation and ecological risk screening (ERS) evaluation.

The following field activities were conducted from October 2004 to May 2005 at Anchor Test Area to support the above objectives:

- Collection of six multi-increment (MI) surface soil (0-1 ft bgs) samples;
- Collection of one discrete surface soil (0-1 ft bgs) sample;
- Collection of two MI subsurface soil (1-3 ft bgs and 3-5 ft bgs) samples; and
- Completion of sampling location survey.

The Characterization of 14 AOCs utilizes the term "multi-increment" or "MI" sample. This sampling technique is currently referred to as "incremental sampling methodology" or "ISM." Additionally, the Characterization of 14 AOCs report refers to the two subsurface samples as "MI subsurface samples." However, these samples were composited from five soil borings and were not collected in manner consistent with ISM. All surface soil, subsurface soil, and sediment samples were analyzed for target analyte list (TAL) metals and explosives. One discrete surface soil sample was collected from one ISM sample area for volatile organic compound (VOC) analysis to fulfill requirements to conduct full-suite analysis for 10% of the ISM sample population. The discrete VOC sample was not subjected to ISM sample processing. Only surface and subsurface soil were sampled under the Characterization of 14 AOCs investigation, as no sediment or surface water were present at the AOC. No groundwater monitoring wells were installed as part of the investigation.

An HHRS and an ERS for Anchor Test Area were included in the Characterization of 14 AOCs. The HHRS compared chemical concentrations detected in the AOC samples to RVAAP criteria in effect at that time, which included facility-wide background concentrations for inorganic chemicals and USEPA Region 9 residential preliminary remediation goals (PRGs). The results of the HHRS identified contaminants above screening criteria in soil at Anchor Test Area, as summarized in Table 2-1.

Table 2-1. Chemicals of Potential Concern per the Characterization of 14 AOCs Report

Soil	Sediment	Surface Water	Groundwater
Arsenic Chromium Manganese	Not evaluated – medium not present.	Not evaluated – medium not present.	Not evaluated – no groundwater wells at Anchor Test Area

Source: *Characterization of 14 AOCs at the Ravenna Army Ammunition Plant* (MKM 2007)
AOC = Area of Concern

The ERS compared chemical concentrations detected in the Anchor Test Area environmental media to RVAAP facility-wide background concentrations for inorganic chemicals and ecological screening values (ESVs). The ERS followed screening methodology guidance presented in the *RVAAP Facility-Wide Ecological Risk Work Plan* (USACE 2003c) (herein referred to as the FWERWP) and *Guidance for Conducting Ecological Risk Assessments* (Ohio EPA 2003). Chemicals were retained if they did not have screening values. Table 2-2 presents chemicals identified in the ERS as exceeding screening values for the AOC.

Table 2-2. Chemicals Exceeding Ecological Screening Values per the Characterization of 14 AOCs Report

Soil	Sediment	Surface Water	Groundwater
Arsenic Chromium Manganese Mercury	Not evaluated – medium not present.	Not evaluated – medium not present.	Not evaluated – no groundwater wells at Anchor Test Area

Source: *Characterization of 14 AOCs at the Ravenna Army Ammunition Plant* (MKM 2007)
AOC = Area of Concern

The report recommended a full risk assessment be considered to assist in the overall risk management decisions for the AOC.

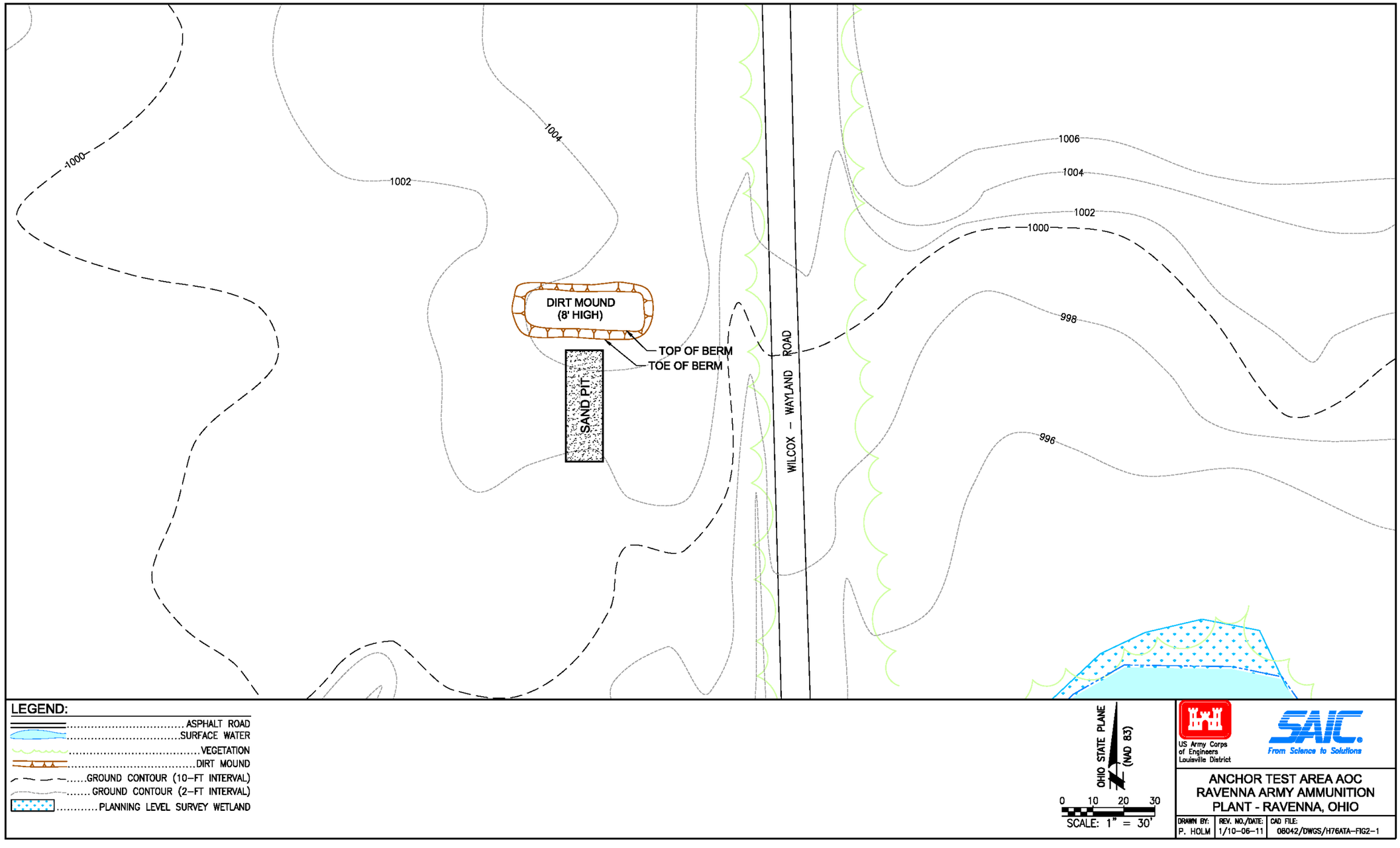

Figure 2-1. Anchor Test Area Features

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3.0 ENVIRONMENTAL SETTING

This section describes the physical features, topography, geology, hydrogeology, and environmental characteristics of RVAAP and Anchor Test Area that are factors in interpreting the potential contaminant transport pathways, receptor populations, and exposure scenarios with respect to the evaluation of human health and ecological risks. This section also presents a preliminary CSM based on AOC characteristics and historical investigation data to provide a framework for evaluating contaminant nature and extent, fate and transport, and human health and ecological risk. An updated CSM is presented in Section 8.7 to integrate the results of evaluations performed in this report.

3.1 RVAAP PHYSIOGRAPHIC SETTING

RVAAP is located within the Southern New York Section of the Appalachian Plateaus physiographic province (USGS 1968). This province is also characterized by elevated uplands underlain primarily by Mississippian and Pennsylvanian age bedrock units that are horizontal or gently dipping. The province is characterized by its rolling topography with incised streams having dendritic drainage patterns. The Southern New York Section has been modified by glaciation, which rounded ridges, filled major valleys, and blanketed many areas with glacially derived unconsolidated deposits (i.e., sand, gravel, and finer grained outwash deposits). As a result of glacial activity in this section, old stream drainage patterns were disrupted in many locales, and extensive wetland areas developed.

3.2 SURFACE FEATURES AND AOC TOPOGRAPHY

The topography of RVAAP is gently undulating, with an overall decrease in ground elevation from a topographic high of approximately 1220 ft above mean sea level (amsl) in the far western portion of the facility, to low areas at approximately 930 ft amsl in far eastern portion of the facility.

USACE mapped the facility topography in February 1998 using a 2-ft contour interval with an accuracy of 0.02 ft. USACE based the topographic information on aerial photographs taken during the spring of 1997. The USACE survey is the basis for the topographical information illustrated in figures found in this report.

Anchor Test Area is located on the southern edge of a small topographic high isolated from other former operational areas at an elevation of approximately 1004 ft amsl (Figure 3-1). From this topographic high, the elevation gently slopes downward towards the south and west to approximately 998 ft amsl. The key surface features at the AOC are remnants of the former sandpit and the nearby dirt mounds that functioned as blast walls. Metal debris is present at the AOC, and a portion of a cement culvert is visible in a dirt mound. The AOC is heavily overgrown with trees and shrubs, and the immediate vicinity is heavily forested with the exception of the large wetland approximately 500 ft to the south (Figure 3-1). No perennial surface water or drainage conveyance features are present at the AOC. Surface water occurs only intermittently as overland storm water runoff associated with heavy rainfall events and generally flows towards the wetland located 500 ft to the south. The

wetland is drained to the south by an unnamed stream which enters the west branch of the Mahoning River.

3.3 SOIL AND GEOLOGY

3.3.1 Regional Geology

The regional geology at RVAAP consists of horizontal to gently dipping bedrock strata of Mississippian and Pennsylvanian age overlain by varying thicknesses of unconsolidated glacial deposits. The bedrock and unconsolidated geology at RVAAP and geology specific to Anchor Test Area are presented in the following subsections.

3.3.2 Soil and Glacial Deposits

Bedrock at RVAAP is overlain by deposits of the Wisconsin-aged Lavery Till in the western portion of the facility and the younger Hiram Till and associated outwash deposits in the eastern two-thirds of the facility (Figure 3-2). Unconsolidated glacial deposits vary considerably in their character and thickness across RVAAP, from zero in some of the eastern portion of the facility, to an estimated 150 ft in the south-central portion.

Thin coverings of glacial material have been completely removed as a consequence of human activities at locations such as Ramsdell Quarry. Bedrock is present at or near the ground surface in many locations, such as at Load Line 1 and the Erie Burning Grounds (USACE 2001a). Where glacial material is still present, its distribution and character indicate its origin as ground moraine. These tills consist of laterally discontinuous assemblages of yellow-brown, brown, and gray silty clays to clayey silts, with sand and rock fragments. Lacustrine sediment from bodies of glacial-age standing water have also been encountered in the form of deposits of uniform, light gray silt greater than 50 ft thick in some areas (USACE 2001a).

Soil at RVAAP is generally derived from the Wisconsin-age silty clay glacial till. Distributions of soil types are discussed and mapped in the *Soil Survey of Portage County, Ohio*, which describes soil as nearly level to gently sloping and poorly to moderately well drained (USDA 1978). Much of the native soil at RVAAP was disturbed during construction activities in former production and operational areas of the facility.

The Sharon Member of the Pennsylvanian Pottsville Formation is the primary bedrock beneath RVAAP. In the western half of the facility, the upper members of the Pottsville Formation, including the Connoquenessing Sandstone (also known as the Massillon Sandstone), Mercer Shale, and uppermost Homewood Sandstone, have been found. The regional dip of the Pottsville Formation measured in the west portion of RVAAP is 5.0-11.5 ft per mile to the south.

3.3.3 Geologic Setting of Anchor Test Area

Bedrock has not been encountered at Anchor Test Area during PBA08 RI or previous characterization activities. The inferred bedrock formation at Anchor Test Area is the Pennsylvanian age Pottsville Formation, Sharon Sandstone member, informally referred to as the Sharon Conglomerate (Figure 3-3) (Winslow et al. 1966). The Sharon Sandstone Member, the lowest unit of the Pottsville Formation, is a highly porous, loosely cemented, permeable, cross-bedded, frequently fractured and weathered, orthoquartzite sandstone, which is locally conglomeratic. Thin shale lenses occur in the upper portion of the unit.

The soil type found at this AOC is the Ellsworth silt loam (2-6% slopes). The Ellsworth is formed in silty clay loam and silty clay glacial till where bedrock is greater than 6 ft bgs. The Ellsworth silt loam is moderately well drained with slow to very slow permeability and potential for moderate erosion (USDA 2010).

As observed in PBA08 RI soil borings, the composition of unconsolidated deposits at Anchor Test Area generally consist of yellowish-brown silty sands overlain by yellowish-brown, medium stiff, silt-rich clay. Poorly sorted sands were observed in the vicinity of the former sand pit. Groundwater was observed 8.7-13 ft bgs in unconsolidated borings. Geologic descriptions of subsurface soil samples collected during the PBA08 RI are generally consistent with the conclusions from the Characterization of 14 AOCs. PBA08 RI boring logs containing geologic descriptions of unconsolidated deposits at Anchor Test Area are included in Appendix A.

Two undisturbed geotechnical samples were collected during the PBA08 RI. The geotechnical sample collected from 4.0-4.9 ft bgs was characterized as silty clay with little sand. The geotechnical sample collected from 10.0-12.0 ft bgs was characterized as sand-rich silt. A summary of the PBA08 RI geotechnical analysis including porosity and permeability is presented in Section 5.5.

3.4 HYDROGEOLOGY

3.4.1 Regional Hydrogeology

Sand and gravel aquifers are present in the buried-valley and outwash deposits in Portage County as described in the *Phase I Remedial Investigation Report of High-Priority Areas of Concern* (USACE 1998). Generally, these saturated zones are too thin and localized to provide large quantities of water for industrial or public water supplies; however, yields are sufficient for residential water supplies. Lateral continuity of these aquifers is unknown. Recharge of these units comes from surface water infiltration of precipitation and surface streams. Specific groundwater recharge and discharge areas at RVAAP have not been delineated.

The thickness of the unconsolidated interval at RVAAP ranges from thin to absent in the eastern and northeastern portion of RVAAP to an estimated 150 ft in the central portion of the facility. The groundwater table occurs within the unconsolidated zone in many areas of the facility. Because of the

heterogeneous nature of the unconsolidated glacial material, groundwater flow patterns are difficult to determine with a high degree of accuracy. Vertical recharge from precipitation likely occurs via infiltration along root zones, desiccation cracks, and partings within the soil column. Laterally, most groundwater flow likely follows topographic contours and stream drainage patterns, with preferential flow along pathways (e.g., sand seams, channel deposits, or other stratigraphic discontinuities) having higher permeabilities than surrounding clay or silt-rich material. Figure 3-4 illustrates facility-wide potentiometric surface data in the unconsolidated interval for the contemporaneous measurement event in January 2010 (EQM 2010).

Within bedrock units at RVAAP, the principle water-bearing aquifer is the Sharon Sandstone/Conglomerate. Depending on the existence and depth of overburden, the Sharon Sandstone/Conglomerate ranges from an unconfined to a leaky artesian aquifer. Water yields from on-site water supply wells completed in the Sharon Sandstone/Conglomerate ranged from 30-400 gallons per minute (gpm) (USATHAMA 1978). Well yields of 5-200 gpm were reported for on-site bedrock wells completed in the Sharon Sandstone/Conglomerate (Kammer 1982). Other local bedrock units capable of producing water include the Homewood Sandstone, which is generally thinner and only capable of well yields less than 10 gpm, and the Connoquenessing Sandstone. Wells completed in the Connoquenessing Sandstone in Portage County have yields ranging from 5-100 gpm but are typically less productive than the Sharon Sandstone/Conglomerate due to lower permeabilities (Winslow et al. 1966).

Figure 3-5 shows the potentiometric surface within bedrock strata at RVAAP in January 2010 (EQM 2010). The bedrock potentiometric map shows a more uniform and regional eastward flow direction than the unconsolidated zone that is not as affected by local surface topography. Due to the lack of well data in the western portion of RVAAP, general flow patterns are difficult to discern. For much of the eastern half of RVAAP, bedrock potentiometric elevations are higher than the overlying unconsolidated potentiometric elevations, indicating an upward hydraulic gradient. This evidence suggests there is a confining layer that separates the two aquifers. In the far eastern area, the two potentiometric surfaces are at approximately the same elevation, suggesting hydraulic communication between the two aquifers is occurring.

3.4.2 Anchor Test Area Hydrologic/Hydrogeologic Setting

No monitoring wells are present at Anchor Test Area. The nearest facility-wide monitoring well is BKGmw-013, located approximately 2,200 ft to the north (Figures 3-1 and 3-4). Well gauging data collected at this well during the January 2010 facility-wide sampling event indicated a top of casing water level of 976.45 ft amsl (EQM 2010). Monitoring well BKGmw-013 is completed in the unconsolidated zone to a depth of 25.5 ft bgs (948.45 ft amsl). The generalized regional groundwater flow direction in the vicinity of the AOC is towards the east, as presented in Figure 3-4.

During the RRSE, a soil boring was advanced to a depth of 16 ft bgs in the middle of the sand pit, and groundwater was not encountered (USACHPPM 1998). The soil borings advanced during the PBA08

RI indicated a soil overburden thickness greater than 13 ft bgs with groundwater encountered at depths of approximately 8.7-13.0 ft bgs.

3.4.3 Surface Water

3.4.3.1 Regional Surface Water

RVAAP resides within the Mahoning River watershed, part of the Ohio River basin. The west branch of the Mahoning River is the main surface stream in the area. The west branch flows adjacent to the west end of the facility, generally in a north to south direction, before flowing into the Michael J. Kirwan Reservoir, located to the south of State Route 5 (Figure 1-1). The west branch flows out of the reservoir and parallels the southern RVAAP boundary before joining the Mahoning River east of RVAAP. The western and northern portions of RVAAP display low hills and a dendritic surface drainage pattern. The eastern and southern portions are characterized by an undulating to moderately level surface, with less dissection of the surface drainage. The facility is marked with marshy areas and flowing and intermittent streams whose headwaters are located in the facility's upland areas.

The three primary watercourses that drain RVAAP are (Figure 1-2):

- South fork of Eagle Creek;
- Sand Creek; and
- Hinkley Creek.

All of these watercourses have many associated tributaries. Sand Creek, with a drainage area of 13.9 square miles, flows generally in a northeast direction to its confluence with the south fork of Eagle Creek. In turn, the south fork of Eagle Creek continues in a northerly direction for 2.7 miles to its confluence with Eagle Creek. The drainage area of the south fork of Eagle Creek is 26.2 square miles, including the area drained by Sand Creek. Hinkley Creek originates just southeast of the intersection between State Routes 88 and 303 to the north of the facility. Hinkley Creek, with a drainage area of 11.0 square miles, flows in a southerly direction through the facility and converges with the west branch of the Mahoning River south of the facility (USACE 2001a).

Approximately one-third of RVAAP meets the regulatory definition of a wetland, with the majority of the wetland areas located in the eastern portion of the facility. Wetland areas at RVAAP include seasonal wetlands, wet fields, and forested wetlands. Many of the wetland areas are the result of natural drainage or beaver activity; however, some wetland areas are associated with anthropogenic settling ponds and drainage areas.

Approximately 50 ponds are scattered throughout the facility. Many were constructed within natural drainage ways to function as settling ponds or basins for process effluent and runoff. Others are natural in origin, resulting from glacial action or beaver activity. Water bodies at RVAAP support aquatic vegetation and biota as described in Section 3.6.1.2. Storm water runoff at RVAAP is controlled primarily by natural drainage except in former operations areas where an extensive storm

sewer network helps to direct runoff to drainage ditches and settling ponds. In addition, the storm sewer system was one of the primary drainage mechanisms for process effluent during the period that production facilities were in operation.

3.4.3.2 Anchor Test Area Surface Water

No perennial surface water is present at Anchor Test Area, and there are no persistent drainage features. As the AOC is located on the southern edge of a localized topographic high, storm water runoff associated with heavy rainfall events that is not infiltrated discharges towards the wetland located 500 ft south of the AOC (Figure 3-1). The wetland is drained by an unnamed stream to the west branch of the Mahoning River.

3.5 CLIMATE

The general climate of the RVAAP area is continental and is characterized by moderately warm and humid summers, reasonably cold and cloudy winters, and wide variations in precipitation from year to year. Climate data for the RVAAP area presented below were obtained from available National Weather Service records for the 30-year period of record from 1971 to 2000 at the Youngstown Regional Airport, Ohio (http://www.weather.gov/climate/xmacis.php?wfo=cle). Wind speed data for Youngstown, Ohio, are from the National Climatic Data Center (http://lwf.ncdc.noaa.gov/oa/climate/online/ccd/avgwind.html) for the available 53-year period of record from 1950 through 2002.

Average annual rainfall in the RVAAP area is 38.15 inches, with the highest monthly average occurring in July (4.14 inches) and the lowest monthly average occurring in February (2.03 inches). Average annual snowfall totals approximately 52.8 inches, with the highest monthly average occurring in January (13.8 inches). It should be noted that due to the influence of lake-effect snowfall events associated with Lake Erie (located approximately 35 miles to the northwest of RVAAP), snowfall totals vary widely throughout northeastern Ohio.

The average annual daily temperature in the RVAAP area is 48.8 ºF, with an average daily high temperature of 58.3 ºF and an average daily low temperature of 39.3 ºF. The record high temperature of 100 ºF occurred in July 1988, and the record low temperature of -22 ºF occurred in January 1994. The prevailing wind direction at RVAAP is from the southwest, with the highest average wind speed occurring in January (11.4 miles per hour) and the lowest average wind speed occurring in August (7.4 miles per hour). Thunderstorms occur on approximately 35 days per year and are most abundant from April through August. The RVAAP area is susceptible to tornadoes; minor structural damage to several buildings on facility property occurred as the result of a tornado in 1985.

3.6 POTENTIAL RECEPTORS AT ANCHOR TEST AREA

The following sections discuss potential human and ecological receptors at Anchor Test Area.

3.6.1.1 Human Receptors

RVAAP is a controlled-access facility that is fenced and patrolled by security personnel. Anchor Test Area, located in the south-central portion of RVAAP, is currently inactive. Full-time OHARNG, BRAC, and contractor staff work at the facility. Military training and operations are conducted at the facility. The OHARNG projected future land use for the AOC is Military Use and Training. The representative receptor is the National Guard Trainee and per the FWHHRAM this constitutes the Risk Assessment Land Use of Dismounted Training-Digging. National Guard Training, in conjunction with the evaluation of agricultural-residential land uses and associated receptors, form the basis for identifying COCs. Residential Land Use, specifically the Resident Farmer scenario, is included to evaluate COCs for unrestricted land use at the AOC as required by the CERCLA process and as outlined in the FWHHRAM (USACE 2005a).

Additional information regarding potential future land uses is included in Section 7.2.3. OHARNG plans to meet its future potable water needs using the local municipal water supply supplemented with potable water from on-site groundwater wells, where required.

3.6.1.2 Ecological Receptors

RVAAP has a diverse range of vegetation and habitat resources. Habitats present within the facility include large tracts of closed-canopy hardwood forest, scrub/shrub open areas, grasslands, wetlands, open-water ponds and lakes, and semi-improved administration areas (OHARNG 2008).

Vegetation at RVAAP can be grouped into three categories: herb-dominated, shrub-dominated, and tree-dominated. Approximately 60% of the facility is covered by forest or tree-dominated vegetation. The facility has seven forest formations, four shrub formations, eight herbaceous formations, and one non-vegetated formation (OHARNG 2008).

Surface water features within RVAAP include a variety of streams, ponds, floodplains, and wetlands. Numerous streams drain the facility, including approximately 19 miles of perennial streams. The total length of streams at the facility is 212 linear miles. Approximately 153 acres of ponds are found on the facility. These ponds provide valuable wildlife habitat and support wood ducks, hooded mergansers, mallards, Canada geese, and many other birds and wildlife species. Some ponds have been stocked with fish and are used for fishing and hunting (OHARNG 2008). Wetlands are abundant and prevalent throughout the facility. These wetland areas include seasonal wetlands, wet fields, and forested wetlands. Most of the wetland areas on the facility are the result of natural drainage and beaver activity; however, some wetland areas are associated with anthropogenic settling ponds and drainage areas.

An abundance of wildlife is present on the facility; 35 species of land mammals, 214 species of birds, 41 species of fish, and 34 species of amphibians and reptiles have been identified. No federally listed species are known to reside at the facility, and no critical habitat occurs (OHARNG 2008). Ohio State-listed plant and animal species have been identified through confirmed sightings and/or biological inventories at the facility and are presented in Table 3-1.

The AOC is within a mature forest. There are no known sightings of state-listed or federally listed species on the AOC. Additional information specific to ecological resources at Anchor Test Area is included in Section 7.3.

Table 3-1. Rare Species List

CAMP RAVENNA JOINT MILITARY TRAINING CENTER (CRJMTC) RARE SPECIES LIST
27 April 2010

I. Species confirmed to be on CRJMTC property by biological inventories and confirmed sightings.

A. State Endangered

1. American bittern, *Botaurus lentiginosus* (migrant)
2. Northern harrier, *Circus cyaneus*
3. Yellow-bellied Sapsucker, *Sphyrapicus varius*
4. Golden-winged warbler, *Vennivora chrysoptera*
5. Osprey, *Pandion haliaetus* (migrant)
6. Trumpeter swan, *Cygnus buccinators* (migrant)
7. Mountain Brook Lamprey, *Ichthyomyzon greeleyi*
8. Graceful Underwing, *Catocala gracilis*
9. Tufted Moisture-loving Moss, *Philonotis Fontana var. caespitosa*
10. Bobcat, *Felis rufus*
11. Narrow-necked Pohl's Moss, *Pohlia elongata var. elongate*
12. Sandhill Crane, *Grus Canadensis* (probable nester)
13. Bald Eagle, *Haliaetus leucocephalus* (nesting pair)

B. State Threatened

1. Barn owl, *Tyto alba*
2. Dark-eyed junco, *Junco hyemalis* (migrant)
3. Hermit thrush, *Catharus guttatus* (migrant)
4. Least bittern, *Ixobrychus exilis*
5. Least flycatcher, *Empidonax minimus*
6. *Psilotreta indecisa* (caddis fly)
7. Simple willow-herb, *Epilobium strictum*
8. Woodland Horsetail, *Equisetum sylvaticum*
9. Lurking leskea, *Plagiothecium latebricola*
10. Pale sedge, *Carex pallescens*

C. State Potentially Threatened Plants

1. Gray Birch, *Betula populifolia*
2. Butternut, *Juglans cinerea*
3. Northern rose azalea, *Rhododendron nudiflorum var. roseum*
4. Hobblebush, *Viburnum alnifolium*
5. Long Beech Fern, *Phegopteris connectilis (Thelypteris phegopteris)*
6. Straw sedge, *Carex straminea*
7. Water avens, *Geum rivale*
8. Tall St. John's wort, *Hypercium majus*
9. Swamp oats, *Sphenopholis pensylvanica*
10. Shining ladies'-tresses, *Spiranthes lucida*
11. Arbor Vitae, *Thuja occidentalis*
12. American Chestnut, *Castanea dentate*

Table 3-1. Rare Species List (continued)

D. State Species of Concern

1. Pygmy shrew, *Sorex hovi*
2. Star-nosed mole, *Condylura cristata*
3. Woodland jumping mouse, *Napaeozapus insignis*
4. Sharp-shinned hawk, *Accipiter striatus*
5. Marsh wren, *Cistothorus palustris*
6. Henslow's sparrow, *Ammodramus henslowii*
7. Cerulean warbler, *Dendroica cerulea*
8. Prothonotary warbler, *Protonotaria citrea*
9. Bobolink, *Dolichonyx oryzivorus*
10. Northern bobwhite, *Colinus virginianus*
11. Common moorhen, *Gallinula chloropus*
12. Great egret, *Ardea alba* (migrant)
13. Sora, *Porzana carolina*
14. Virginia Rail, *Rallus limicola*
15. Creek heelsplitter, *Lasmigona compressa*
16. Eastern box turtle, *Terrapene carolina*
17. Four-toed Salamander, *Hemidacrylium scuta/um*
18. *Stenonema ithica* (mayfly)
19. *Apamea mixta* (moth)
20. *Brachylomia algens* (moth)
21. Sedge wren, *Cistothorus platensis*

E. State Special Interest

1. Canada warbler, *Wilsonia canadensis*
2. Little blue heron, *Egretta caerula*
3. Magnolia warbler, *Dendroica magnolia*
4. Northern waterthrush, *Seiurus noveboracensis*
5. Winter wren, *Troglodytes troglodytes*
6. Back-throated blue warbler, *Dendroica caerulescens*
7. Brown creeper, *Certhia americana*
8. Mourning warbler, *Oporornis philadelphia*
9. Pine siskin, *Carduelis pinus*
10. Purple finch, *Carpodacus purpureus*
11. Red-breasted nuthatch, *Sitta canadensis*
12. Golden-crowned kinglet, *Regulus satrapa*
13. Blackburnian warbler, *Dendroica fusca*
14. Blue grosbeak, *Guiraca caerulea*
15. Common snipe, *Gallinago gallinago*
16. American wigeon, *Anas americana*
17. Gadwall, *Anas strepera*
18. Green-winged teal, *Anas crecca*
19. Northern shoveler, *Anas clypeata*
20. Redhead duck, *Aytya americana*
21. Ruddy duck, *Oxyura jamaicensis*

NOTE: There are currently no federally listed species or critical habitat on CRJMTC property. There are a few species currently under federal observation for listing but none listed.

3.7 PRELIMINARY CONCEPTUAL SITE MODEL

A preliminary CSM was developed in the *Performance Based Acquisition 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1* (herein referred to as the PBA08 SAP) to develop sampling rationales and data quality objectives (DQOs) for the PBA08 RI at Anchor Test Area (USACE 2009a). An updated version of the FWSAP was developed in February 2011 and approved by the Ohio EPA; however, the PBA08 RI was implemented prior to approval of this updated version. The preliminary CSM included a description of primary (active) and secondary (e.g., residual chemicals in soil) contaminant sources, migration pathways, contaminant discharge points, and potential receptors based on operational history and prior investigations. This preliminary CSM, summarized below, is further refined in Section 8.7 to integrate results of the contaminant nature and extent evaluation, fate and transport modeling, HHRA, and ERA presented in this report for Anchor Test Area.

3.7.1 Contaminant Sources

No primary contaminant sources remain at Anchor Test Area. The dates and duration of operational usage are unknown, although available data indicate it was not active until the early 1960s. Infrastructure consisted of only a sandpit and earthen mounds that functioned as blast walls (the remnants of which are still visible), as well as metal debris presumably sourced from the former testing activities. Secondary sources (contaminated media) identified in previous investigations and further characterized during the PBA08 RI are further described below.

3.7.1.1 Soil

Based on previous characterization, contaminated surface and subsurface soil at the AOC may represent a potential secondary source of contamination. Previous analyses of Anchor Test Area soil data under the Characterization of 14 AOCs identified four TAL metals in surface soil and subsurface soil as COPCs for human health and ecological receptors. Five surface soil samples were collected and five soil borings were installed during the PBA08 RI to further define the extent of contamination.

3.7.1.2 Sediment and Surface Water

No historical or PBA08 RI sediment or surface water samples were collected because perennial surface water or defined drainage conveyances are not present at the AOC. Surface water may occur only as intermittent storm water runoff associated with heavy rainfall events.

3.7.1.3 Groundwater

Groundwater at RVAAP is evaluated on a facility-wide basis, sampled under the Facility-Wide Groundwater Monitoring Program (FWGWMP), and will be evaluated through the CERCLA process

in a separate report. Potential leaching of soil contaminants to groundwater is evaluated through fate and transport modeling.

3.7.2 Migration Pathways

As surface water and sediment are not present at the AOC, vertical migration of soil contaminants to groundwater is the only potential migration pathway. Modeling of contaminant leaching from soil sources and transport via groundwater is included in this RI; however, a full evaluation of the groundwater pathway will be addressed under a separate report.

3.7.3 Contaminant Discharge Points

Contaminants are not confined within the AOC boundary, as surface water at the AOC occurs only as intermittent storm water runoff associated with heavy rainfall events and would generally flow towards the wetland located 500 ft to the south. The closest identified potential discharge point for groundwater would also be the wetland and the unnamed stream which drains south to the west branch of the Mahoning River. Leaching of soil contaminants to groundwater, with subsequent lateral migration to either surface water discharge or exposure points, are potential migration pathways and are further evaluated in Section 6.0.

3.7.4 Potential Receptors

Potential human health and ecological receptors for the AOC, based on current land use, Reasonable and Anticipated Future Land Use (RAFLU), and present-day ecological resources, are discussed in Section 3.6. The future potential for human exposure to contaminants associated with this AOC is primarily for the National Guard Trainee. Current potential for human exposure is mitigated by inactivity at the AOC, the absence of permanent residents within RVAAP, and facility access and security controls to deter unauthorized entry. However, current and future land use includes the potential for human receptor exposure, and both terrestrial and aquatic receptors are present in the AOC vicinity. Therefore, an HHRA and ERA were conducted as part of the PBA08 RI, and the results are integrated into the updated CSM presented in Section 8.7.

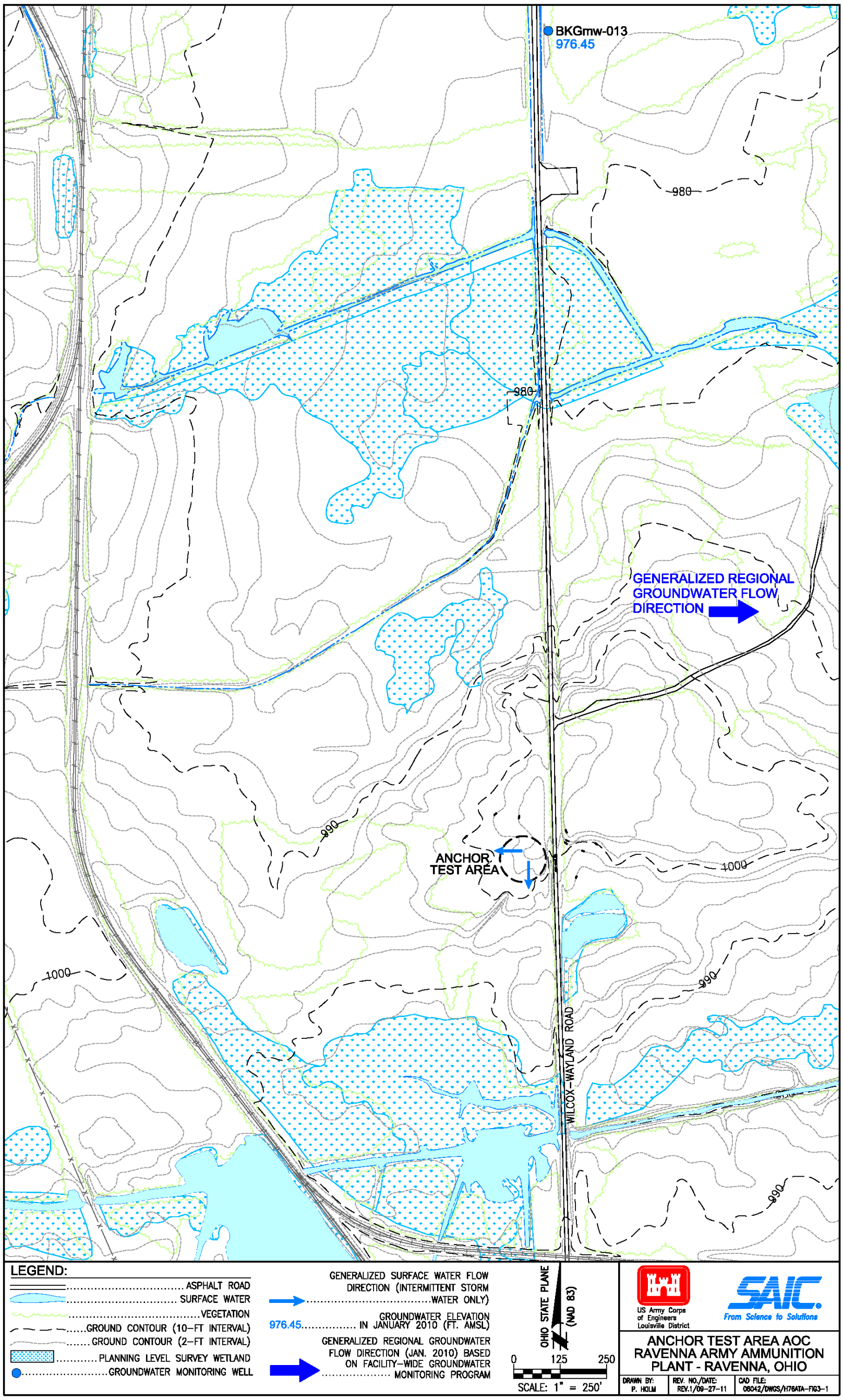

Figure 3-1. Topography, Groundwater Flow, and Surface Water Flow at Anchor Test Area and Surrounding Area

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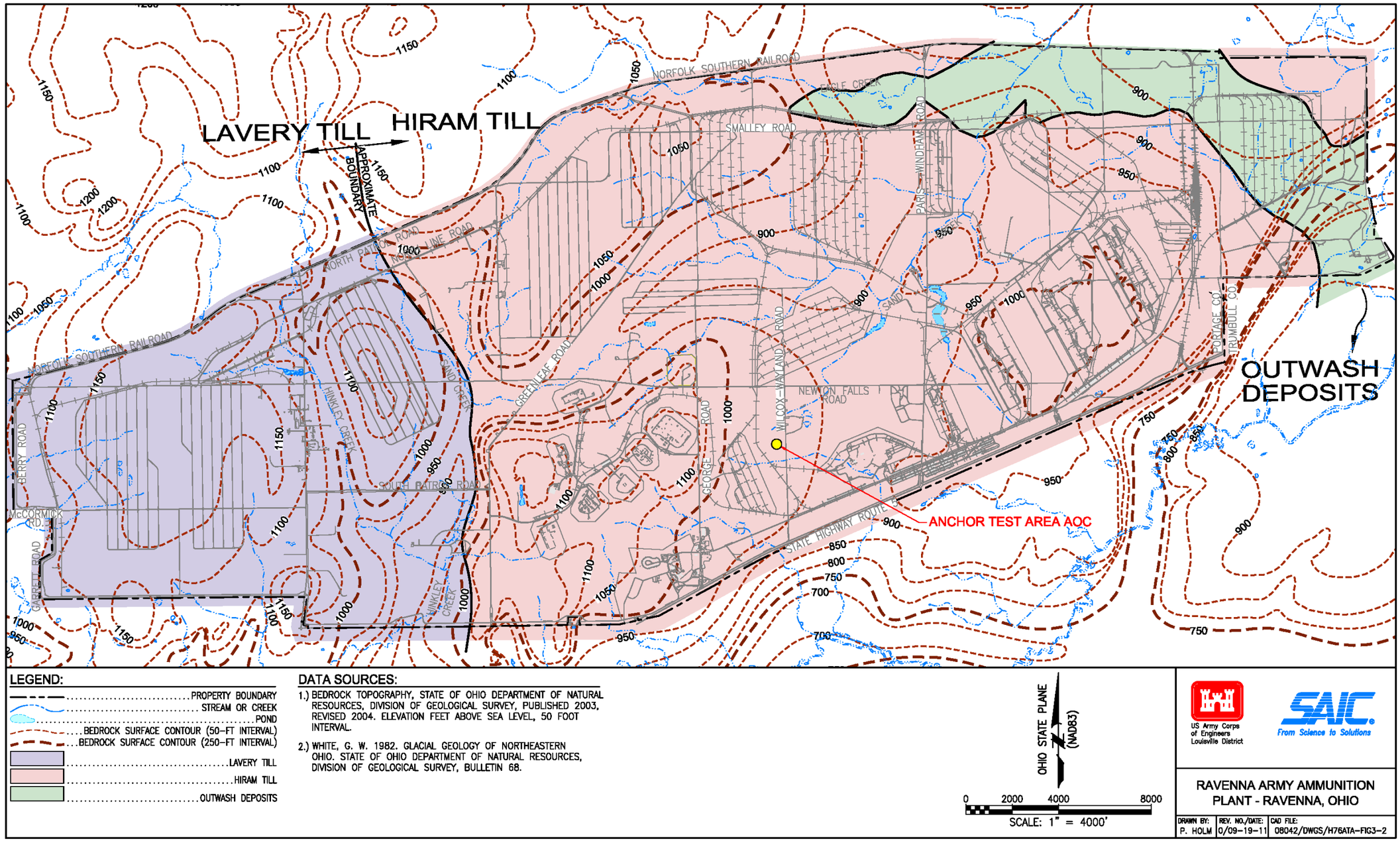

Figure 3-2. Geologic Map of Unconsolidated Deposits on RVAAP

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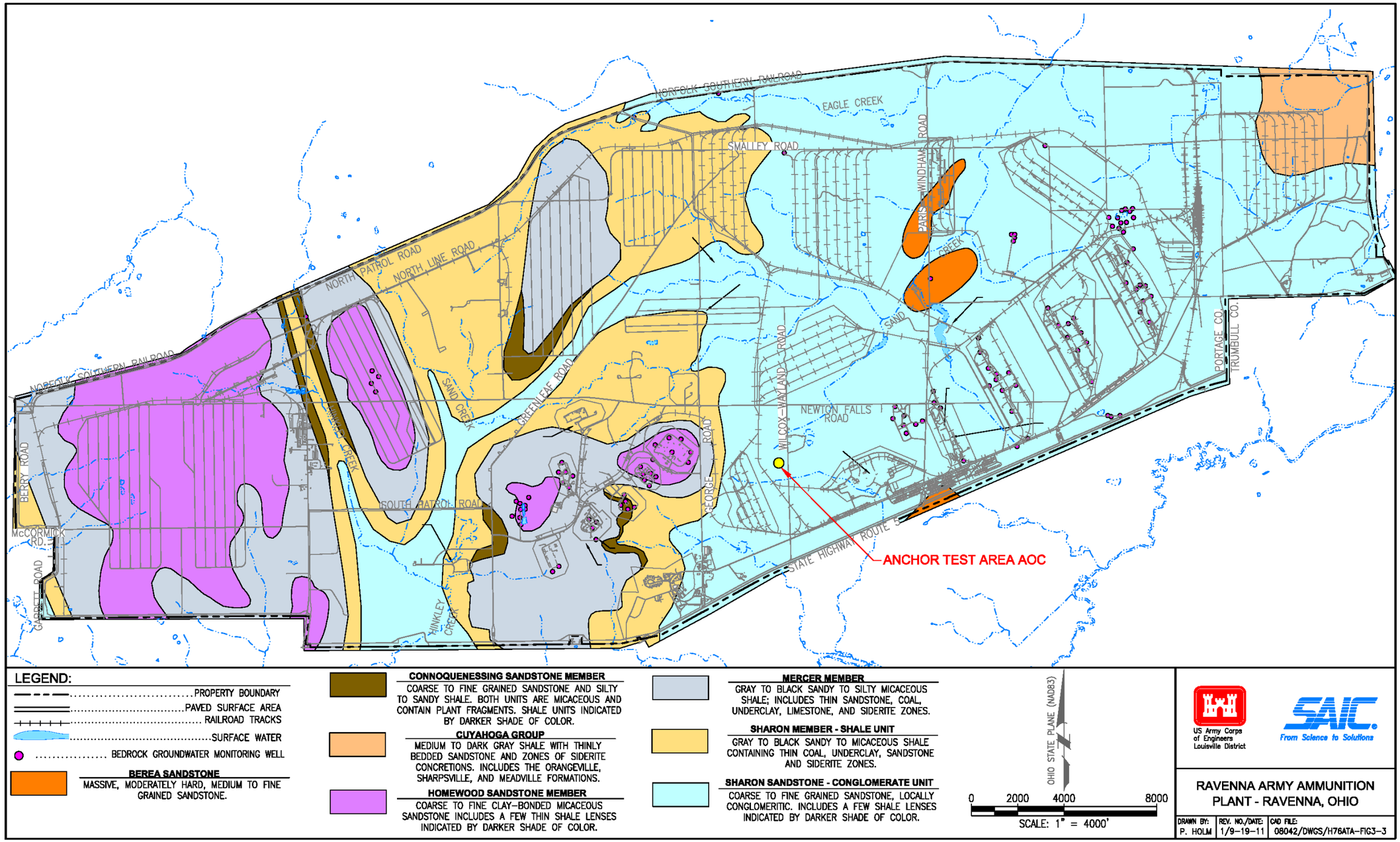

Figure 3-3. Geologic Bedrock Map and Stratigraphic Description of Units on RVAAP

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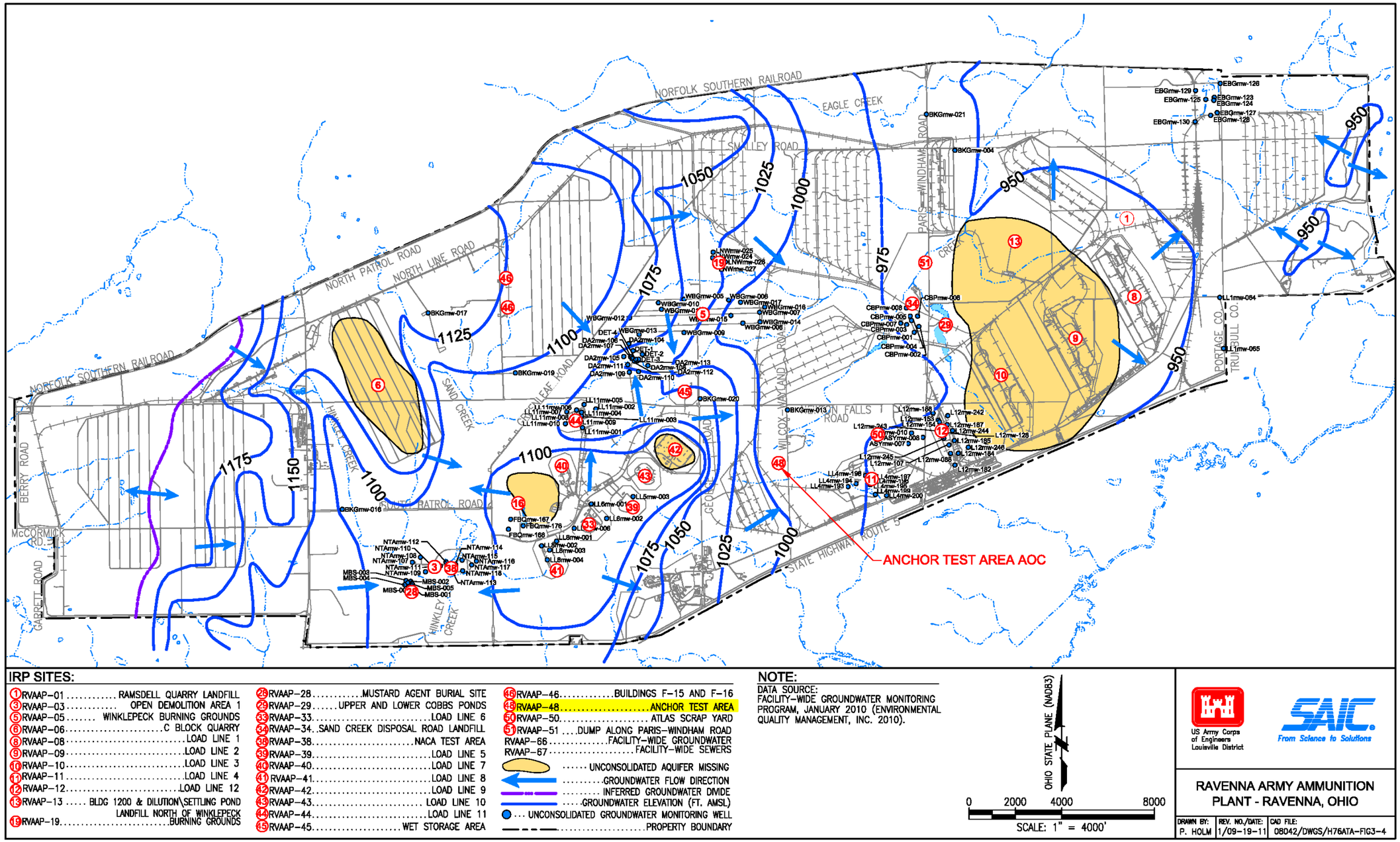

Figure 3-4. Potentiometric Surface of Unconsolidated Aquifer at RVAAP

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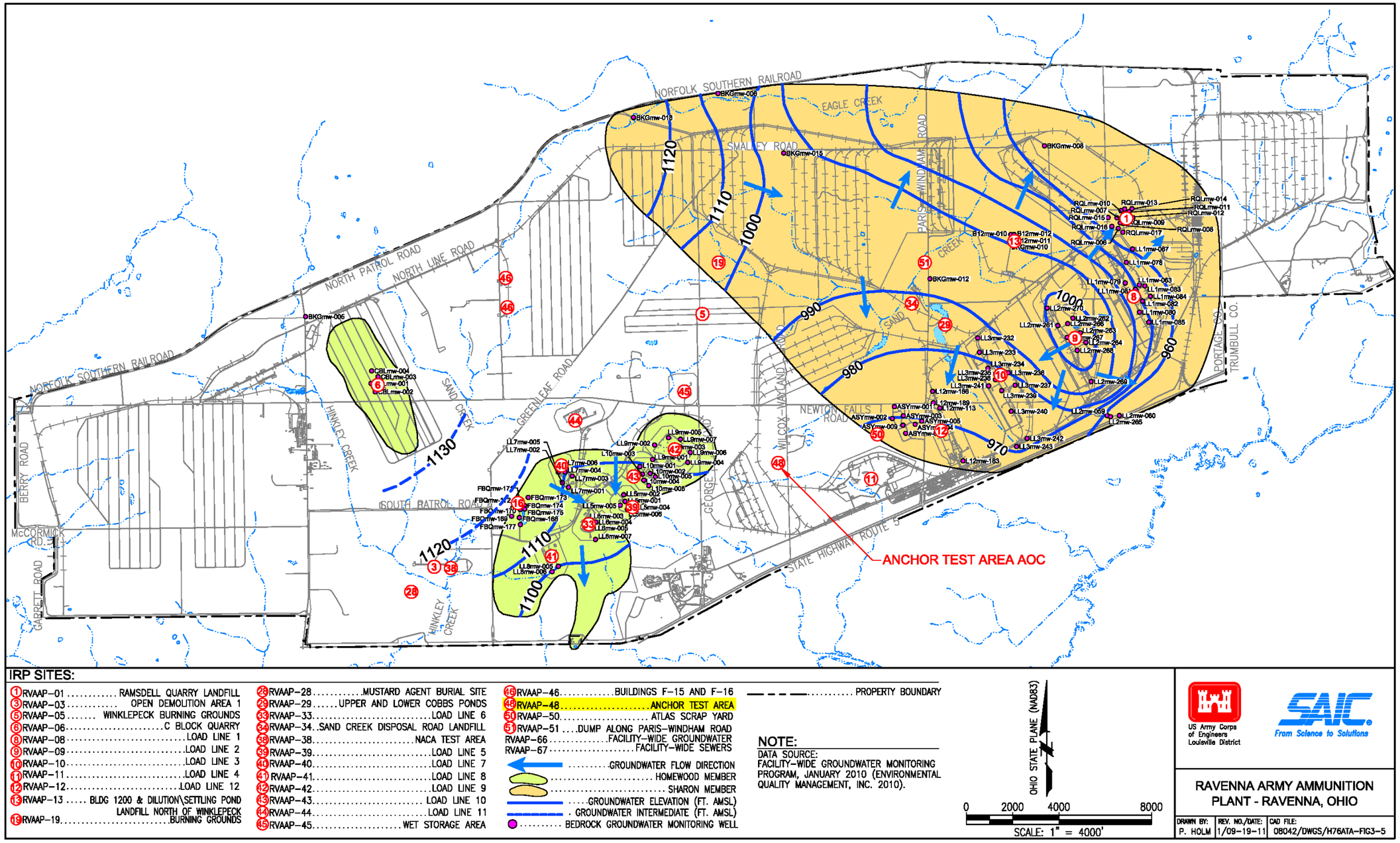

IRP SITES:

1 RVAAP-01 ..... RAMSDELL QUARRY LANDFILL
3 RVAAP-03 ..... OPEN DEMOLITION AREA 1
5 RVAAP-05 ..... WINKLEPECK BURNING GROUNDS
6 RVAAP-06 ..... C BLOCK QUARRY
8 RVAAP-08 ..... LOAD LINE 1
9 RVAAP-09 ..... LOAD LINE 2
10 RVAAP-10 ..... LOAD LINE 3
11 RVAAP-11 ..... LOAD LINE 4
12 RVAAP-12 ..... LOAD LINE 12
13 RVAAP-13 ..... BLDG 1200 & DILUTION\SETTLING POND
LANDFILL NORTH OF WINKLEPECK
19 RVAAP-19 ..... BURNING GROUNDS
28 RVAAP-28 ..... MUSTARD AGENT BURIAL SITE
29 RVAAP-29 ..... UPPER AND LOWER COBBS PONDS
33 RVAAP-33 ..... LOAD LINE 6
34 RVAAP-34 ..... SAND CREEK DISPOSAL ROAD LANDFILL
38 RVAAP-38 ..... NACA TEST AREA
39 RVAAP-39 ..... LOAD LINE 5
40 RVAAP-40 ..... LOAD LINE 7
41 RVAAP-41 ..... LOAD LINE 8
42 RVAAP-42 ..... LOAD LINE 9
43 RVAAP-43 ..... LOAD LINE 10
44 RVAAP-44 ..... LOAD LINE 11
45 RVAAP-45 ..... WET STORAGE AREA
46 RVAAP-46 ..... BUILDINGS F-15 AND F-16
48 RVAAP-48 ..... ANCHOR TEST AREA
50 RVAAP-50 ..... ATLAS SCRAP YARD
51 RVAAP-51 ..... DUMP ALONG PARIS-WINDHAM ROAD
RVAAP-66 ..... FACILITY-WIDE GROUNDWATER
RVAAP-67 ..... FACILITY-WIDE SEWERS
..... GROUNDWATER FLOW DIRECTION
..... HOMEWOOD MEMBER
..... SHARON MEMBER
..... GROUNDWATER ELEVATION (FT. AMSL)
..... GROUNDWATER INTERMEDIATE (FT. AMSL)
..... BEDROCK GROUNDWATER MONITORING WELL
..... PROPERTY BOUNDARY

NOTE:
DATA SOURCE:
FACILITY-WIDE GROUNDWATER MONITORING PROGRAM, JANUARY 2010 (ENVIRONMENTAL QUALITY MANAGEMENT, INC. 2010).

OHIO STATE PLANE (NAD83)
0 2000 4000 8000
SCALE: 1" = 4000'

US Army Corps of Engineers Louisville District
SAIC From Science to Solutions

RAVENNA ARMY AMMUNITION PLANT - RAVENNA, OHIO

DRAWN BY:	REV. NO./DATE:	CAD FILE:
P. HOLM	1/09-19-11	08042/DWGS/H76ATA-FIG3-5

Figure 3-5. Potentiometric Surface of Bedrock Aquifers at RVAAP

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4.0 STUDY AREA INVESTIGATION

This section presents the methods used for the development of DQOs, field data collection, analytical data management, and laboratory programs for the PBA08 RI at Anchor Test Area. The PBA08 RI was implemented in accordance with the PBA08 SAP to supplement historical data and complete the RI phase of the CERCLA process. The results of the PBA08 RI sampling are combined with the results of previous sampling events to evaluate the nature and extent of contamination, assess potential future impacts to groundwater, conduct risk assessments, and evaluate the need for remedial alternatives.

As presented in Section 2.2.2, there have been several investigations at the AOC, including the HHRS and ERS during the Characterization of 14 AOCs. As part of the PBA08 RI DQOs, an initial screening approach was used to help focus the PBA08 RI investigation of specific chemicals and areas to be further evaluated by assessing nature and extent of contamination observed in historical samples (Section 3.2.2 of the PBA08 SAP). The screening approach presented in the PBA08 SAP compared sample results from previous investigations at the AOC to chemical-specific facility-wide cleanup goals (FWCUGs) for the Resident Farmer Adult, Resident Farmer Child, and National Guard Trainee at the 1E-06 cancer risk level and non-carcinogenic risk hazard quotient (HQ) of 0.1. The most protective of the FWCUGs for the three potential receptors are referred to as "screening criteria" in Table 4-1. Previous results were also compared to FWCUGs at the higher target risk (TR) of 1E-05 and HQ of 1.0 to facilitate the identification of potential source areas that may require additional sampling to refine the extent of contamination. Table 4-1 lists the historical sample results of chemicals with detected concentrations that exceed screening criteria in all previously sampled media further investigated in this RI, as well as the minimum detected concentrations and maximum detected concentrations (MDCs). These chemicals and any additional chemicals detected in samples collected historically and during the PBA08 RI are further evaluated in this report.

Table 4-1. Chemicals Detected at Concentrations above Screening Criteria in Previous Investigations

Medium	Analyte	Units	Frequency of Detection	Minimum Detect	Maximum Detect	Screening Criteria[a]
Surface Soil	Arsenic	mg/kg	6/6	7.5	54	15.4
	Chromium	mg/kg	6/6	16	36	17.4
	Manganese	mg/kg	6/6	330	1500	1450
Subsurface Soil	Chromium	mg/kg	2/2	26	28	27.2
Sediment	Not sampled	--	--	--	--	--
Surface water	Not sampled	--	--	--	--	--

Note: This table was generated using data from the *Characterization of 14 AOCs at the Ravenna Army Ammunition Plant* (MKM 2007).
[a]Screening criteria are the smaller of the facility-wide cleanup goals (FWCUGs) for the Resident Farmer Adult, Resident Farmer Child, and National Guard Trainee based on hazard index (HI)=0.1 or Target Risk=1E-06.
-- Not applicable.

Representatives of RVAAP, Ohio EPA, USACE Louisville, and Camp Ravenna reviewed and approved the PBA08 RI sample locations in December 2009 as part of the approval process for the PBA08 SAP. The PBA08 RI, conducted February 2010 through April 2010, included the collection of surface soil and subsurface soil using discrete and ISM sampling techniques. No sediment or surface water samples were collected at Anchor Test Area during the PBA08 RI, as these media were not present. Additionally, no groundwater samples were collected during the PBA08 RI, as the current conditions of groundwater will be evaluated in a separate report. The following sections describe the rationale and method of sample collection for each component of the field investigation.

4.1 SOIL AND VADOSE ZONE CHARACTERIZATION

Soil samples were collected at the AOC to assess contaminant occurrence and distribution in surface and subsurface soil. All PBA08 RI and historical sample locations used in this RI are presented on Figure 4-1.

4.1.1 Surface Soil Sampling Rationale and Methods

All surface soil samples collected during the PBA08 RI were collected using ISM and discrete sampling techniques. Two ISM samples were collected to vertically delineate surface soil above screening criteria, and three discrete samples were collected to evaluate chromium speciation. ISM samples were analyzed for TAL metals and explosives, and chromium speciation samples were analyzed for total and hexavalent chromium. One ISM sample (15% of the total number of ISM samples collected) was analyzed for RVAAP full-suite analytes [i.e., TAL metals, explosives, propellants (nitrocellulose and nitroguanidine), semi-volatile organic compounds (SVOCs), VOCs, polychlorinated biphenyls (PCBs), and pesticides]. Table 4-2 presents the specific rationale for each surface soil sample collected.

For the PBA08 RI, the corners of each of the designated ISM sampling areas were located using a digital global positioning system (GPS) and were marked using wooden stakes. Sampling crews selected aliquot locations by walking over the entire ISM sampling area and marking the requisite number of points using flagging. At least 30 aliquots for each ISM sample were collected. Aliquot locations were selected in the field and were not predetermined using a grid. Approximately equal sample volume aliquots were collected from a depth of 0-1 ft bgs using a ⅝-inch diameter push probe. A soil description was completed for each ISM sample and is included in Appendix A.

All aliquots collected from a given ISM sample area were combined in a labeled container for transport to the laboratory in accordance with the PBA08 SAP. At the laboratory, each sample was air-dried, sieved, and ground for specified non-volatile chemical analyses.

Quality control (QC) field duplicate and quality assurance (QA) split samples were collected from the ISM sample areas at 10% frequency (one sample). The QC field duplicate sample was submitted to the laboratory as "blind" and was used to determine whether the field sampling technique was reproducible and as an indicator of sample heterogeneity. The QA split sample was sent to a USACE

QA laboratory for independent analysis and evaluation of analytical results obtained by the primary laboratory.

QA/QC samples were collected as replicate ISM samples requiring three separate ISM samples from the same sample area. The QA/QC samples were collected from a set of 30 aliquot locations that were positioned adjacent to the location used for the initial ISM sample. Aliquots for QA/QC samples were collected in separate stainless steel bowls and were placed into separate, labeled containers.

The ISM was not utilized for samples collected for VOC analysis because the air drying, mixing, and sieving of aliquots required by the method could result in the loss of VOCs from the sample. For ISM sample areas designated for VOC analysis, one discrete sample was collected from a depth of 0-1 ft bgs within the ISM sample area using the bucket hand auger method, as described in the PBA08 SAP. The specific location of the discrete sample was randomly chosen. Soil portions designated for VOC analyses were not homogenized in the field but were placed directly in the sample container and compacted to zero headspace.

In addition to the ISM surface soil samples collected, three discrete chromium speciation samples were collected from historical sample locations to evaluate the potential contribution of hexavalent chromium to total chromium concentrations in soil. Samples from 0-1 ft bgs were collected in accordance with the bucket hand auger method described in Section 4.5.2.1.1 of the *Facility-Wide Sampling and Analysis Plan* (USACE 2001a) (herein referred to as the FWSAP). An updated version of the FWSAP was developed in February 2011 and approved by the Ohio EPA; however, the PBA08 RI was implemented prior to approval of this updated version. Two samples were collected from areas previously identified as having elevated total chromium concentrations, and one sample was collected from an area previously identified as having a total chromium concentration near the background concentration. Field duplicate samples were not collected for chromium speciation samples. A sample log, including soil description, was completed for each sample, and all logs are included in Appendix A.

Following collection of discrete samples, excess soil was designated as investigation-derived waste (IDW) and placed in lined, labeled, 55-gal drums that were sealed after use and staged at Building 1036. IDW management practices for all media are discussed in Appendix F. Hand auger borings were backfilled to ground surface with dry bentonite chips and hydrated with the project-approved potable water.

Table 4-2. Surface Soil Samples and Rationales

Sample Type	Depth (ft bgs)	Station	Sample	Date Sampled	Comments/Rationale
ISM	0-1	ATAss-015M	ATAss-015M-5036-SO	2/17/2010	Delineate lateral extent of previously identified surface contamination; Analyzed for RVAAP full-suite analytes.

Table 4-2. Surface Soil Samples and Rationales (continued)

Sample Type	Depth (ft bgs)	Station	Sample	Date Sampled	Comments/Rationale
ISM	0-1	ATAss-016M	ATAss-016M-5037-SO	2/17/2010	Delineate lateral extent of previously identified surface contamination
			ATAss-016M-6047-FD	2/17/2010	QA/QC
			ATASS-016M-6046-QA	2/17/2010	
Discrete	0-1	ATAss-012	ATAss-012-5033-SO	2/17/2010	Previous Cr result represents Cr near background concentration
Discrete	0-1	ATAss-013	ATAss-013-5034-SO	2/17/2010	Previous Cr result represents elevated Cr concentration
Discrete	0-1	ATAss-014	ATAss-014-5035-SO	2/17/2010	Previous Cr result represents elevated Cr concentration

bgs = below ground surface
Cr = Chromium
ISM = Incremental Sampling Methodology
QA/QC = Quality Assurance/Quality Control
RVAAP = Ravenna Army and Ammunition Plant

4.1.2 Subsurface Soil Sampling Rationale and Methods

Twenty subsurface soil samples were collected from five soil borings to delineate the vertical extent of contamination. These locations included:

- Three soil borings in previous ISM areas with chemical concentrations greater than respective FWCUGs; and

- Two soil borings in areas previously not sampled.

Subsurface soil borings were completed by direct push technology (DPT) using a Geoprobe® and/or hand auger. Soil samples collected using the Geoprobe® were collected in a single use acetate liner and were collected at discrete sample locations and at depth intervals presented in the PBA08 SAP. Each soil boring was sampled at the following intervals: 0-1 ft bgs, 1-4 ft bgs, 4-7 ft bgs, and 7-13 ft bgs. Each interval was composited and homogenized in a stainless steel bowl, with the exception of VOC samples. The sample collected from the 7-13 ft bgs interval was archived on-site, while the 4-7 ft bgs interval sample was analyzed under an expedited 5-day turnaround time. As specified in the PBA08 SAP, if there was one chemical concentration that exceeded screening criteria in the 4-7 ft bgs sample, the 7-13 ft bgs sample was analyzed. In addition, at least 10% of all subsurface samples from 7-13 ft bgs were submitted for laboratory analysis to ensure adequate characterization of subsurface soil to 13 ft bgs was performed. One sample collected from the 7-13 ft bgs sample interval was submitted for laboratory analysis to ensure adequate characterization of 7-13 ft bgs was performed. No samples were analyzed due to preliminary screening criteria exceedance within the 4-7 ft bgs sample interval. Table 4-3 presents the specific rationale for each subsurface soil sample collected.

All samples were analyzed for TAL metals and explosives, and 15% of samples (two) were analyzed for the RVAAP full-suite analytes [i.e., TAL metals, explosives, propellants (nitrocellulose and nitroguanidine), SVOCs, VOCs, PCBs, and pesticides]. Two QC field duplicates and two QA split samples were collected to satisfy the QA/QC sample requirements of 10% frequency for subsurface soil samples. A lithologic soil description was completed for each soil boring and is included in Appendix A.

Two geotechnical samples were collected from one boring location to provide soil data for fate and transport modeling. A pilot boring was installed with a Geoprobe® to a depth of 13 ft bgs to allow lithologic characterization of the soil and to determine the appropriate geotechnical sample intervals (Appendix A). The geotechnical sample location was offset from the pilot boring and drilled with hollow stem auger attachments. Geotechnical samples were then collected beneath the hollow stem augers directly into the Shelby tubes. The undisturbed Shelby tube samples were collected from 4.0-4.9 ft bgs and 10-12 ft bgs. The Shelby tube was sealed with wax, capped, and submitted for laboratory geotechnical analysis for porosity, bulk density, moisture content, total organic carbon, grain size fraction analysis, and permeability. Laboratory analytical results for geotechnical samples are presented in Appendix D. A field duplicate sample was not collected for the geotechnical sample.

Following collection of the samples, excess soil was designated as IDW and placed in lined and labeled 55-gal drums that were sealed after use and staged at Building 1036. IDW practices for all media are discussed in Appendix F. Subsurface borings were backfilled to ground surface with dry bentonite chips and hydrated with the project-approved potable water.

4.2 SURFACE WATER AND SEDIMENT CHARACTERIZATION

No surface water or sediment samples were collected during the PBA08 RI, because these media are not present at the AOC.

4.3 ASBESTOS INSPECTION

A visual inspection for asbestos-containing material (ACM) was performed at Anchor Test Area in September 2011 by an Asbestos Hazard Evaluation Specialist. The Asbestos Visual Inspection Report is in Appendix A. The Asbestos Hazard Evaluation Specialist did not identify any visibly discernable ACM at the AOC. The visual inspection identified the former blast wall dirt mound near the sandpit, which is overgrown with small trees and vegetation. Due to the fact that historical records indicate that this is a dirt mount to serve as a blast wall (not used as a waste burial) and there were no buildings or other potential ACM at the AOC, no further investigation for asbestos is required for Anchor Test Area.

4.4 CHANGES FROM THE WORK PLAN

Changes to the PBA08 SAP are documented in field change requests (FCRs) (Appendix B). Changes made in the field based on AOC conditions are not documented on FCRs but on the field sampling

logs (Appendix A). These changes are presented in Table 4-4. Revised coordinates for all station locations can be found on the field sampling logs.

Table 4-3. Subsurface Soil Samples and Rationales

Sample Type	Depth (ft bgs)	Station	Sample	Date Sampled	Comments/ Rationale
Discrete	0-1	ATAsb-006	ATAsb-006-5127-SO	2/24/2010	Delineate vertical extent of previously identified surface contamination.
Discrete	1-4		ATAsb-006-5128-SO	2/24/2010	
Discrete	4-7		ATAsb-006-5129-SO	2/24/2010	
Discrete[a]	7-13		ATAsb-006-5130-SO	2/24/2010	
Discrete	0-1		ATAsb-006-6080-FD	2/24/2010	QA/QC
Discrete	0-1		ATAsb-006-6082-QA	2/24/2010	
Discrete	4-4.9	ATAsb-007	ATAsb-007-5131-SO	2/24/2010	Geotechnical
Discrete	10-12		ATAsb-007-5132-SO	2/24/2010	
Discrete	0-1	ATAsb-008	ATAsb-008-5133-SO	2/24/2010	Delineate vertical extent of previously identified surface contamination; Analyzed for RVAAP full-suite analytes.
Discrete	1-4		ATAsb-008-5134-SO	2/24/2010	
Discrete	4-7		ATAsb-008-5135-SO	2/24/2010	
NA	7-13		ATAsb-008-5136-SO	NA	
Discrete	0-1	ATAsb-009	ATAsb-009-5137-SO	2/24/2010	Delineate vertical extent of previously identified surface contamination.
Discrete	1-4		ATAsb-009-5138-SO	2/24/2010	
Discrete	4-7		ATAsb-009-5139-SO	2/24/2010	
NA	7-13		ATAsb-009-5140-SO	NA	
Discrete	4-7		ATAsb-009-6081-FD	2/24/2010	QA/QC
Discrete	4- 7		ATASB-009-6083-QA	2/24/2010	
Discrete	0-1	ATAsb-010	ATAsb-010-5141-SO	2/24/2010	Confirm absence of contamination in an area previously not sampled.
Discrete	1 4		ATAsb-010-5142-SO	2/24/2010	
Discrete	4-7		ATAsb-010-5143-SO	2/24/2010	
NA	7-13		ATAsb-010-5144-SO	NA	
Discrete	0-1	ATAsb-011	ATAsb-011-5145-SO	2/24/2010	Confirm absence of contamination in an area previously not sampled.
Discrete	1-4		ATAsb-011-5146-SO	2/24/2010	
Discrete	4-7		ATAsb-011-5147-SO	2/24/2010	
NA	7-13		ATAsb-011-5148-SO	NA	

[a]One sample (10%) from 7-13 ft bgs was submitted for laboratory analysis to characterize subsurface soil to 13 ft bgs.
bgs = below ground surface
NA = sample not analyzed by the laboratory based on preliminary screening criteria of the 4-7 ft bgs sample interval
QA/QC = Quality Assurance/Quality Control
RVAAP = Ravenna Army and Ammunition Plant

Table 4-4. Changes from the PBA08 SAP Pertinent to Anchor Test Area

Station	Affected Sample	Date Sampled	Change/Rationale
ATAsb-008	ATAsb-008-5133-SO	2/24/2010	Station location was moved 4.5 ft southwest due to proximity of original location to a tree
	ATAsb-008-5134-SO	2/24/2010	
	ATAsb-008-5135-SO	2/24/2010	
	ATAsb-008-5136-SO	2/24/2010	
ATAsb-009	ATAsb-009-5137-SO	2/24/2010	Station location was moved 5 ft east due to proximity of original location to a tree
	ATAsb-009-5138-SO	2/24/2010	
	ATAsb-009-5139-SO	2/24/2010	
	ATAsb-009-6081-FD	2/24/2010	
	ATAsb-009-5140-SO	2/24/2010	
ATAsb-010	ATAsb-010-5141-SO	2/24/2010	Station location was moved 4 ft east and slightly north due to proximity of original location to a tree
	ATAsb-010-5142-SO	2/24/2010	
	ATAsb-010-5143-SO	2/24/2010	
	ATAsb-010-5144-SO	2/24/2010	

PBA08 SAP = Performance-Based Acquisition 2008 Sampling and Analysis Plan

4.5 ANALYTICAL PROGRAM OVERVIEW

The following sections describe the analytical program followed during the PBA08 RI.

4.5.1 Data Quality Objectives

Samples were collected and analyzed according to the FWSAP and PBA08 SAP that were prepared in accordance with USACE and USEPA guidance. The FWSAP and PBA08 SAP outline the organization, objectives, intended data uses, and QA/QC activities to perform in order to achieve the desired DQOs for maintaining the defensibility of the data. Project DQOs were established in accordance with USEPA Region 5 guidance. Requirements for sample collection, handling, analysis criteria, target analytes, laboratory criteria, and data verification criteria for the RI are consistent with USEPA and United States Department of Defense (DoD) requirements. DQOs for this project included analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity for the measurement data. Appendix C presents an assessment of the analytical program objectives.

4.5.2 Quality Assurance and Quality Control

Samples were properly packaged for shipment and transferred by courier to the laboratory for analysis. A signed chain-of-custody record (included in Appendix D) with sample numbers and locations was enclosed with each shipment. When transferring the possession of samples, the individuals relinquishing and receiving the samples signed, dated, and noted the time on the record. All shipments were in compliance with applicable U.S. Department of Transportation (DOT) regulations for environmental samples.

QA/QC samples for this project included field blanks, trip blanks, QC field duplicates, QA split samples, laboratory method blanks, laboratory control samples (LCS), laboratory duplicates, and matrix spike/matrix spike duplicate (MS/MSD) samples. Table 4-5 presents a summary of QA/QC samples utilized during the PBA08 RI and how each sample type was used to support the quality of the analytical data. Evaluation of QA/QC samples and their contribution to documenting the project data quality is provided in Appendix C.

Table 4-5. Summary of PBA08 RI QA/QC Samples

Sample Type	Rationale
Field Blank	Analyzed to determine contamination in source material that may contribute to sample contamination
Trip Blank	Analyzed to assess the potential for cross contamination of samples due to contaminant interference during sample shipment and storage
Field Duplicate	Analyzed to determine sample heterogeneity and sampling methodology reproducibility
Equipment Rinsate	Analyzed to assess the adequacy of the equipment decontamination processes for non-dedicated sampling equipment
Laboratory Method Blanks	Analyzed to assess the contamination level in the laboratory preparation and analysis process
Laboratory Duplicate Samples	Analyzed to assist in determining the analytical reproducibility and precision of the analysis for the samples of interest and provide information about the effect of the sample matrix on the measurement methodology
Matrix Spike/Matrix Spike Duplicate	
Laboratory Control Sample	Analyzed to determine the accuracy and precision of the analytical method implemented by the laboratory and to monitor the laboratory's analytical process control
QA Split	Analyzed to provide independent verification of the accuracy and precision of the principal analytical laboratory

PBA08 RI = Performance Based Acquisition 2008 Remedial Investigation
QA = Quality Assurance
QC = Quality Control

4.5.3 Field Analyses

No field laboratory analyses were conducted for the PBA08 RI (i.e., field explosives testing). Field screening for organic vapors was not used to guide sampling or analytical efforts. Organic vapors were monitored in the breathing zone during drilling for health and safety purposes at each subsurface soil boring location.

4.5.4 Laboratory Analyses

Samples collected during the PBA08 RI were analyzed by TestAmerica Laboratories, Inc. (herein referred to as TestAmerica) of North Canton, Ohio and West Sacramento, California, as a subcontractor to White Water Associates, Inc., of Amasa, Michigan. Collected QA split samples were analyzed by USACE's contracted QA laboratory, RTI Laboratories, Inc., of Livonia, Michigan.

TestAmerica and RTI Laboratories, Inc. are accredited by the DoD Environmental Laboratory Accreditation Program (ELAP).

All analytical procedures were completed in accordance with applicable professional standards, USEPA requirements, government regulations and guidelines, DoD Quality Systems Manual (QSM) Version 3, USACE Louisville District analytical QA guidelines, and specific project goals and requirements. In addition to these standards, strict adherence to the requirements set forth in the FWSAP and PBA08 SAP was required of the analytical laboratories so that conditions adverse to data quality would not arise. Preparation and analyses for chemical parameters were performed according to the methods listed in Table 4-6. Additionally, soil geotechnical analysis for porosity, bulk density, moisture content, grain size fraction, and permeability were performed in compliance with American Society for Testing and Materials (ASTM) test methods.

Table 4-6. Summary of PBA08 RI Preparation and Analytical Procedures

Parameter	Soil	
	Preparation	**Analysis**
Inorganic chemicals	SW-846 3050B	SW-846 6020
Mercury	--	SW-846 7471A
Explosives	--	SW-846 8330B
SVOCs and PAHs	SW-846 3540C	SW-846 8270C
Propellants: Nitrocellulose Nitroguanidine	 -- SW-846 3550A	 353.2 Modified SW-846 8330M
VOCs	SW-846 5030B	SW-846 8260B
Pesticides	SW-846 3540C	SW-846 8081A
PCBs	SW-846 3540C	SW-846 8082
Hexavalent Chromium	SW-846 3060A	SW-846 7196A

PAH = Polycyclic Aromatic Hydrocarbon
PBA08 RI = Performance Based Acquisition 2008 Remedial Investigation
PCB = Polychlorinated Biphenyl
SVOC = Semi-volatile Organic Compound
VOC = Volatile Organic Compound
-- = Preparation steps included in analytical method

SAIC is the custodian of the project files and will maintain the contents of the files for this investigation, including all relevant records, reports, logs, field notebooks, photographs, subcontractor reports, correspondence, and sample custody forms. These files will remain in a secure area under the custody of the SAIC project manager until they are transferred to USACE, Louisville District and RVAAP at the end of the PBA08 project. Analytical data reports from the project laboratory will be forwarded to the USACE Louisville District laboratory data validation contractor for validation review and QA comparison upon request. White Water Associates, Inc. and TestAmerica will retain all original raw data (both hardcopy and electronic) in a secure area under the custody of the laboratory project manager for a minimum of seven years.

4.5.5 Data Review, Verification, and Quality Assessment

Data were produced, reviewed, and reported by the laboratory in accordance with specifications in the PBA08 SAP, the Louisville District analytical QA guidelines, and the laboratory's QA manual.

TestAmerica performed in-house analytical data reduction under the direction of the laboratory project manager and QA officer. These individuals were responsible for assessing data quality and informing SAIC and USACE of any data considered "unacceptable" or which required caution on the part of the data user in terms of its reliability.

Final reports were generated by the laboratory project manager. Data were then delivered to SAIC for data verification. TestAmerica prepared and retained full analytical and QC documentation for the project in both paper copy and electronic storage media (e.g., compact disk), as directed by the analytical methodologies employed. Laboratory reports included documentation verifying analytical holding time compliance.

SAIC performed a systematic process utilizing automated data review (ADR) software for data verification to ensure the precision and accuracy of the analytical data were adequate for their intended use. The ADR outlier reports are included in Attachment 1 of Appendix C. This verification also attempted to minimize the potential of using false-positive or false-negative results in the decision-making process (i.e., to ensure accurate identification of detected versus non-detected chemicals). This approach was consistent with the DQOs for the project and with the analytical methods used for determining COCs and calculating risk. "Definitive Data" were reported consistent with the deliverables identified in the project sampling and analysis plan (SAP). These definitive data were then verified through the review process outlined in the project SAP and presented in Appendix C. During the review process, no data were qualified as unusable; however, some results were qualified as estimated, indicating accuracy, precision, or sensitivity was less than desired but adequate for their intended use. The completeness goal for analytical data is 90%, as defined in Tables 3-1 and 3-2 of the Facility-Wide Quality Assurance Project Plan (FWQAPP). The project achieved this goal by collecting all samples presented in the PBA08 SAP and producing usable results for 100% of all samples performed. In addition to the SAIC data review, a 10% validation of all data will be performed by USACE to prove data usability.

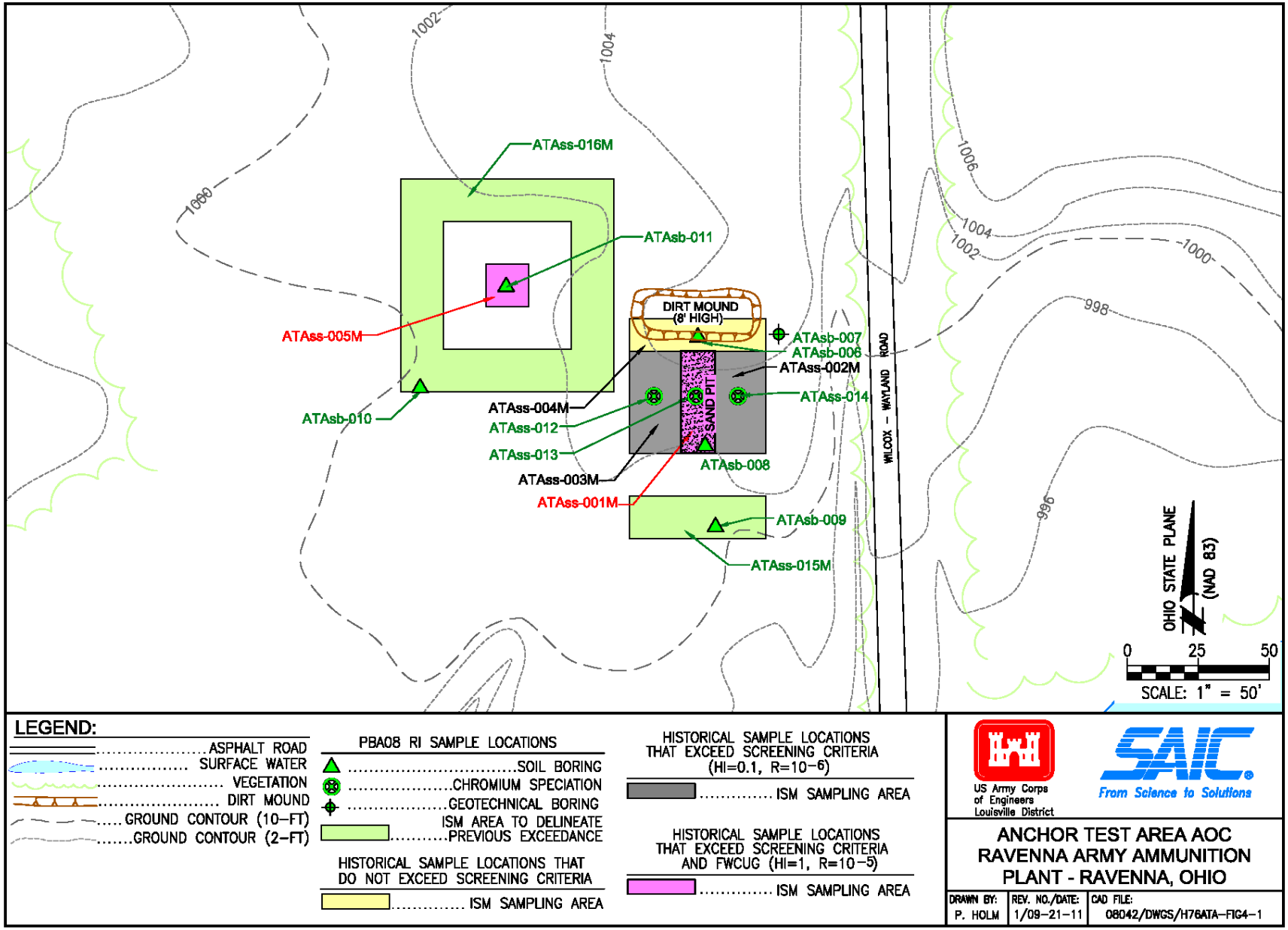

Figure 4-1. PBA08 RI and Historical Sample Locations

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5.0 NATURE AND EXTENT OF CONTAMINATION

This section presents results of analytical data obtained during the PBA08 RI, the data screening process to identify SRCs indicative of potential impacts from AOC operations, and nature and extent of SRCs in environmental media at Anchor Test Area. The data incorporated in this evaluation included samples from previous investigations.

Section 5.1 presents the statistical methods and screening processes used to distinguish chemicals present at ambient concentrations (background concentrations) from those present at concentrations that indicate potential impacts related to historical operations within the AOC. Section 5.1 also presents data aggregates based on environmental media, AOC characteristics, and spatial distribution of samples. The nature and extent of contamination in all sampled environmental media is presented in Sections 5.2 through 5.4 [surface soil (discrete and ISM) and subsurface soil]. Surface water and sediment were not sampled or evaluated, as they are not present at this AOC. Each section presents the results of the PBA08 RI, identified SRCs (utilizing historical and current data), and a summary of the nature and extent of SRCs within each environmental media and spatial data aggregate. Summary analytical results are presented in graphical or tabular formats in the sections addressing each data aggregate. Complete analytical results are in Appendix D.

5.1 DATA EVALUATION METHOD

Data evaluation methods for the AOC are consistent with those established in the FWCUG Report. These methods were specified in the PBA08 SAP (USACE 2009a). The processes used to evaluate the analytical data involved three general steps: (1) defining data aggregates; (2) data verification, reduction, and screening; and (3) data presentation.

5.1.1 Definition of Aggregates

Anchor Test Area data were grouped (aggregated) in two ways for evaluation of contaminant nature and extent, HHRA, and ERA. The initial basic aggregation of data was by environmental media (e.g., surface soil, subsurface soil). For each media aggregate, an evaluation was conducted to determine if further aggregation was warranted with respect to AOC characteristics, historical operations, ecological habitat, and potential future remedial strategy and land use (e.g., spatial aggregates). Data for soil were further aggregated based on depth and sample type for consistency with RVAAP human health risk exposure units (EUs) and guidance established in the FWHHRAM and FWCUG Report. Data aggregates for evaluating the nature and extent of contamination at the AOC are as follows:

- Surface Soil (0-1 ft bgs): This medium is evaluated as an AOC-wide aggregate. Further subdivision into spatial aggregates was not warranted due to small size of the AOC, consistent physical characteristics, and limited AOC historical operations.

- Subsurface Soil (> 1 ft bgs): This medium is evaluated as an AOC-wide aggregate on the same basis as surface soil. Subsurface soil samples were collected from 1-4, 4-7, and 7-13 ft bgs intervals.

The soil data aggregates were further subdivided to define human health and ecological risk EUs in the risk assessments as discussed in Section 7.1.1 (e.g., shallow surface soil, deep surface soil, and subsurface soil).

5.1.2 Data Verification, Reduction, and Screening

5.1.2.1 Data Verification

Data verification was performed on 24 surface and subsurface soil samples (including QC duplicates) collected during the PBA08 RI. Analytical results were reported by the laboratory in electronic format and loaded into the Ravenna Environmental Information Management System (REIMS) database. As discussed in Section 4.5.5, data verification was performed to ensure all requested data were received and complete. Data qualifiers were assigned to each result based on the laboratory QA review and verification criteria. Results were qualified as follows:

- "U" not detected;
- "UJ" not detected, reporting limit estimated;
- "J" indicates the analyte was positively identified, but the associated numerical value is an approximate concentration of the analyte in the sample; and
- "R" result not usable.

In addition to assigning qualifiers, the verification process also selected the appropriate result to use when re-analyses or dilutions were performed. Where laboratory surrogate recovery data or laboratory QC samples were outside of analytical method specifications, the verification chemist determined whether laboratory re-analysis should be used in place of an original reported result. If the laboratory reported results for both diluted and undiluted samples, diluted sample results were used for those analytes that exceeded the calibration range of the undiluted sample. Based on the ADR process and verification review, the project produced acceptable results for 100% of the PBA08 RI sample analyses performed. Some results were qualified as estimated ("J" or "UJ") but usable based on indications of accuracy, precision, or sensitivity being less than desired but adequate for interpretation. A complete discussion of verification process results is contained in the data quality summary report (Appendix C). The data quality summary report also includes a summary table of the assigned data qualifiers and the accompanying rationale. Independent, third-party validation of 10% of the PBA08 RI data, and 100% of the USACE QA laboratory data, was performed by a subcontractor to the USACE, Louisville District. Additional qualification of the RI data may be required based on the results of the validation process.

5.1.2.2 Data Reduction

The initial step in the data reduction process to identify SRCs was calculating data summary statistics. Eligible historical and current AOC data were extracted from the database. Results from QC split samples and field duplicate samples, as well as rejected results, were excluded from the data screening process. All chemicals having at least one detected value were included in the data reduction process. Summary statistics calculated for each data aggregate included the minimum, maximum, and average (mean) detected values, and the proportion of detected results to the total number of samples collected. For calculation of mean detected values, non-detected results were addressed by using one-half of the reported detection limit as a surrogate value during calculation of the mean result for each compound. Non-detected results with elevated detection limits (more than 5 times the contract-required detection limit) were excluded from the summary statistics in order not to skew the calculation of mean values.

5.1.2.3 Data Screening

Following reduction, the data were screened to identify SRCs using the processes outlined below. Additional screening of identified SRCs was conducted: (1) in the fate and transport evaluation (Section 6.0) to identify CMCOPCs; (2) in the HHRA (Section 7.2) to identify human health chemicals of potential concern (COPCs) and COCs; and (3) in the ERA (Section 7.3) to evaluate COPECs. Figure 5-1 illustrates the screening process to identify SRCs and COPCs at Anchor Test Area in accordance with the FWCUG Report. The steps involved in the SRC screening are summarized as follows. All chemicals that were not eliminated during the screening steps were retained as SRCs.

- Data quality assessment: Discussed in Section 4.5.5.

- Background screening: the MDC of inorganic chemicals were compared to the RVAAP background concentrations published in *Phase II Remedial Investigation Report for the Winklepeck Burning Grounds* (USACE 2001b). If exceedances above a background concentration occurred, then the respective inorganic chemicals were retained as SRCs. Several inorganic chemicals are screened against a background concentration of 0 mg/kg (e.g., cadmium, silver), as they were not detected in the samples collected during the background study (USACE 2001b). Therefore, any detection of these inorganic chemicals, regardless of magnitude, may result in their identification as SRCs.

- Screening of essential human nutrients: Chemicals that are considered essential nutrients (e.g., calcium, chloride, iodine, iron, magnesium, potassium, phosphorous, and sodium) are an integral part of the human food supply and are often added to foods as supplements. USEPA recommends these chemicals not be evaluated unless they are grossly elevated relative to background concentrations or would exhibit toxicity at the observed concentrations at an AOC (USEPA 1989). Recommended daily allowance (RDA) and recommended daily intake (RDI) values are available for all of these chemicals. Screening values for receptors ingesting 100 mg of soil per day or 1 L of

groundwater per day to meet their RDA/RDI are listed in Table 5-1. In the case of calcium, magnesium, phosphorous, potassium, and sodium, a receptor ingesting 100 mg of soil per day would receive less than the RDA/RDI value, even if the soil consisted of the pure mineral (i.e., soil concentrations at 1,000,000 mg/kg). Essential nutrients detected near or below their RDA/RDI-based screening levels were eliminated as SRCs.

- Frequency of detection/WOE screening: Chemicals that were never detected in a given medium were eliminated as SRCs. For chemicals with at least 20 samples and a frequency of detection of less than 5%, a WOE approach was used to determine if the chemical is AOC-related. The WOE evaluated magnitude and location (clustering) of detected results and if the distribution of detected results indicated a potential source of the chemical. The results were considered spurious, and the chemical was eliminated from further consideration if the detected results for a chemical showed: (1) no clustering; (2) concentrations were not substantially elevated relative to detection limit; and (3) the chemical did not have an evident source. This screen is applied to all organic and inorganic chemicals with the exception of explosives and propellants; all detected explosives and propellants are considered as SRCs regardless of frequency of detection. No frequency of detection/WOE screening was performed for soil because fewer than 20 samples are available for these data sets.

Table 5-1. Recommended Daily Allowances /Recommended Daily Intake Values

Essential Human Nutrient	USDA RDA/RDI[a] Value
Calcium	1000 mg/d
Chloride[b]	3400 mg/d
Iodine	150 µg/d
Iron	8 mg/d
Magnesium	400 mg/d
Potassium[b]	4700 mg/d
Phosphorous	700 mg/d
Sodium[b]	2300 mg/d

[a]Dietary Reference intakes vary by gender and age, values present are for life stage group: Males 19-30 years.
[b]Adequate Intake Value
RDA = Recommended Daily Allowances
RDI = Recommended Daily Intake
USDA = U.S. Department of Agriculture
Values were obtained from http://fnic.nal.usda.gov charts

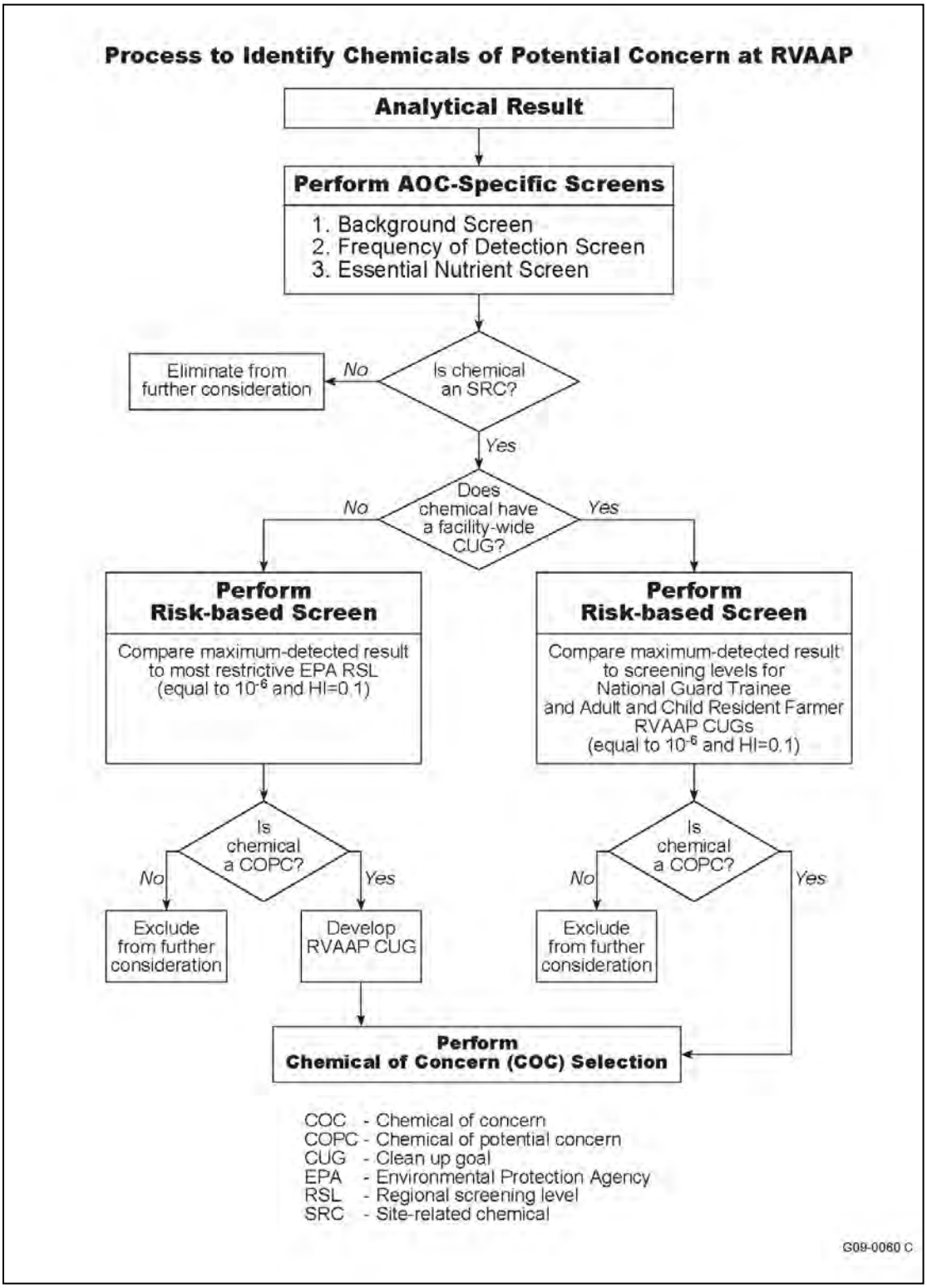

Figure 5-1. Process to Identify RVAAP Chemicals of Potential Concern

5.1.3 Data Presentation

Data summary statistics and screening results for SRCs in surface and subsurface soil are presented in Sections 5.2 through Section 5.4. Analytical results for SRCs are presented by sample location on Figures 5-2 and Figure 5-3. To provide an indication to the nature and extent of contamination, concentrations of SRCs that exceed the lowest FWCUG, based on either the National Guard Trainee or Resident Farmer Adult or Child, are highlighted [TR = 10^{-5} and/or hazard index (HI) = 1.0 or background concentration]; these are further evaluated in Section 7.0. In sections addressing nature and extent of contamination for each media, analytical results for SRCs are also presented in data summary tables whenever a sufficient number of detected values occurred to merit such tables. Where few detected values for a class of SRCs occurred, the values are addressed in the text of the section. Complete analytical results, including all non-detected results, are contained in Appendix D. In order to maximize efficiency for laboratory reporting and data management activities, all of the samples received at the laboratory on a given day were reported in a single data package. Therefore, results may be present in the data packages in Appendix D which are associated with different AOCs. All samples for Anchor Test Area have sample IDs beginning with "ATA." Each table in Appendix D presents the results for each sampling location for a specific medium aggregate (e.g., surface soil, subsurface soil) and class of analytes. Selected chemicals are presented in graphical format to depict spatial and vertical distribution.

5.1.4 Data Evaluation

As discussed in Section 2.2.2, surface soil and subsurface soil samples were collected during the Characterization of 14 AOCs. Surface and subsurface soil samples were also collected during the PBA08 RI. All available sample data were evaluated to determine suitability for use in the various key RI data screens and evaluations (nature and extent, fate and transport, risk assessment). Evaluation of data suitability for use in the PBA08 RI involved two primary considerations: (1) representativeness with respect to current AOC conditions; and (2) sample collection methods (e.g., discrete vs. ISM).

To address use of data for this RI, all available prior and current samples were evaluated with respect to their use for contaminant nature and extent evaluation and risk assessment. In the intervening time between the Characterization of 14 AOCs sampling in 2004 and the PBA08 RI sampling in 2010, no activities were conducted at the AOC that would have resulted in disturbance of media (e.g., re-grading, removal of structures). Therefore, both the data collected in 2004 and PBA08 RI in 2010 are assumed to represent current conditions of the AOC.

All surface and subsurface soil data were incorporated into the contaminant nature and extent evaluation. All historical surface soil samples were collected using ISM methods, screened with the PBA08 RI ISM samples for SRCs, and carried forward into the risk assessment. Discrete samples from the 0-1 ft bgs surface soil interval collected from co-located subsurface soil boring locations during the PBA08 RI were retained for nature and extent evaluation only. All subsurface samples collected during the PBA08 RI were collected as discrete soil borings and screened for SRCs. Two

subsurface samples were collected under the 2004 investigation using a composite method (5 aliquots within an areal extent) at locations ATAss-001M and ATAss-002M. These two subsurface samples were retained for nature and extent evaluation only, due to the difference in collection methodology relative to the PBA08 RI subsurface samples. Table 5-2 presents the designated use for all available Anchor Test Area samples.

5.2 SURFACE SOIL DISCRETE SAMPLE RESULTS FOR CHROMIUM SPECIATION

During the PBA08 RI, surface soil samples were collected from three discrete sample locations and analyzed for hexavalent chromium and total chromium. Samples were collected from the three sampling areas having the highest, mid-point, and lowest total historical chromium results. This sampling was accomplished to determine the contribution of hexavalent chromium to total chromium in soil at Anchor Test Area for use in the HHRA (Section 7.2). Chromium speciation results are shown in Table 5-3.

5.3 CONTAMINANT NATURE AND EXTENT IN SURFACE SOIL

Data from all eligible historical and PBA08 RI surface soil ISM samples were combined and screened, as discussed in Section 5.1, to identify SRCs representing current conditions at the AOC. Table 5-4 presents the results of the SRC screening for surface soil. The SRC screening data is comprised of five ISM samples collected from 0-1 ft bgs in 2004 and two ISM samples collected during the PBA08 RI. The PBA08 RI samples were collected to delineate contaminants detected at previous surface soil sample locations at concentrations above COPC screening levels. One sample was analyzed for TAL metals, explosives, and polycyclic aromatic hydrocarbons (PAHs), and the other sample was analyzed for the RVAAP full-suite analytes (TAL metals, explosives, SVOCs, VOCs, PCBs, pesticides). Tables 5-5 and 5-6 present the results for all detected analytes in the surface soil ISM and discrete samples collected during the PBA08 RI, respectively. Complete copies of all analytical results are presented in Appendix D.

Figures 5-2 and 5-3 graphically present the distribution and concentrations of inorganic and organic SRCs that occur at each sample location. Those SRCs detected in discrete surface soil samples (i.e., the 0-1 ft bgs interval from the subsurface soil boring locations) are also presented on the figures for nature and extent evaluation purposes only. To illustrate the extent and magnitude of contaminants, those SRCs that exceeded the most restrictive FWCUGs at a TR of 10^{-5} and HI=1.0 (or background concentration) are highlighted.

Table 5-2. Data Summary

Sample Id	Date	Sample Type	Use Type	Comments
Surface Soil (0-1 ft bgs)				
ATAsb-006-5127-SO	2/24/2010	D	N	Sample used for nature and extent evaluation. Sample not used for surface soil screening purposes, as ISM data will be used for surface soil screening.
ATAsb-006-6080-FD	2/24/2010	D	FD	Duplicate used for quality control evaluation.
ATAsb-008-5133-SO	2/24/2010	D	N	Sample used for nature and extent evaluation. Sample not used for surface soil screening purposes, as ISM data will be used for surface soil screening.
ATAsb-009-5137-SO	2/24/2010	D	N	Sample used for nature and extent evaluation. Sample not used for surface soil screening purposes, as ISM data will be used for surface soil screening.
ATAsb-010-5141-SO	2/24/2010	D	N	Sample used for nature and extent evaluation. Sample not used for surface soil screening purposes, as ISM data will be used for surface soil screening.
ATAsb-011-5145-SO	2/24/2010	D	N	Sample used for nature and extent evaluation. Sample not used for surface soil screening purposes, as ISM data will be used for surface soil screening.
ATAss-001M-DUP	11/8/2004	ISM	MD	Duplicate used for quality control evaluation.
ATAss-001M-SO	11/8/2004	ISM	S	Sample used for nature and extent evaluation and surface soil screening.
ATAss-002M-SO	11/8/2004	ISM	S	Sample used for nature and extent evaluation and surface soil screening.
ATAss-003D-SO	11/8/2004	ISM	S	Discrete sample taken for determination of volatile organic chemicals in ISM area will be used for screening with ISM samples.
ATAss-003M-SO	11/8/2004	ISM	S	Sample used for nature and extent evaluation and surface soil screening.
ATAss-004M-SO	11/8/2004	ISM	S	Sample used for nature and extent evaluation and surface soil screening.
ATAss-005M-SO	11/8/2004	ISM	S	Sample used for nature and extent evaluation and surface soil screening.
ATAss-012-5033-SO	2/17/2010	D	C	Sample used for chromium speciation and nature and extent evaluation. Sample not used for surface soil screening purposes, as ISM data will be used for surface soil screening.
ATAss-013-5034-SO	2/17/2010	D	C	Sample used for chromium speciation and nature and extent evaluation. Sample not used for surface soil screening purposes, as ISM data will be used for surface soil screening.
ATAss-014-5035-SO	2/17/2010	D	C	Sample used for chromium speciation and nature and extent evaluation. Sample not used for surface soil screening purposes, as ISM data will be used for surface soil screening.
ATAss-015M-5036-SO	2/17/2010	ISM	S	Sample used for nature and extent evaluation and surface soil screening.

Table 5-2. Data Summary (continued)

Sample Id	Date	Sample Type	Use Type	Comments
Surface Soil (0-1 ft bgs), continued				
ATAss-016M-5037-SO	2/17/2010	ISM	S	Sample used for nature and extent evaluation and surface soil screening.
ATAss-016M-6047-FD	2/17/2010	ISM	FD	Duplicate used for quality control evaluation.
Subsurface Soil (1-13 ft bgs)				
ATAsb-001M-SO	11/8/2004	SC	N	Sample used for nature and extent evaluation only because composite sampling method used is different from subsequent discrete subsurface samples taken.
ATAsb-002M-SO	11/8/2004	SC	N	Sample used for nature and extent evaluation only because composite sampling method used is different from subsequent discrete subsurface samples taken.
ATAsb-006-5128-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.
ATAsb-006-5129-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.
ATAsb-006-5130-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.
ATAsb-008-5134-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.
ATAsb-008-5135-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.
ATAsb-009-5138-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.
ATAsb-009-5139-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.
ATAsb-009-6081-FD	2/24/2010	D	FD	Duplicate used for quality control evaluation.
ATAsb-010-5142-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.
ATAsb-010-5143-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.
ATAsb-011-5146-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.
ATAsb-011-5147-SO	2/24/2010	D	S	Sample used for nature and extent evaluation and subsurface soil screening.

C = Chromium speciation sample
COPC = Chemical of Potential Concern
D = Duplicate
FD = Field Duplicate
ISM = Incremental Sampling Method
MD = Incremental Sampling Method Duplicate
N = Nature and Extent use only
S = Nature and extent, SRC and COPC screen, and sample point by sample point risk assessment
SC = Soil Composite
SRC = Site-related Contaminant

Table 5-3. Chromium Speciation Results

Sample Station	Hexavalent Chromium Concentration (mg/kg)	Total Chromium Concentration[a] (mg/kg)	Percent Hexavalent Chromium[b]
ATAss-012	1.1	20.7	5.3
ATAss-013	1 U	16	3.1
ATAss-014	0.93 U	4	11.6

[a]Background screening value (BSV) for total chromium = 17.4 mg/kg. No background screening value is available for hexavalent chromium.
[b]Percentages for non-detected results were calculated using half the reported concentration
mg/kg = milligrams per kilogram
U= non-detectable concentration

5.3.1 Explosives and Propellants

No explosives or propellants were detected or identified as SRCs in the ISM sample population, inclusive of the 2004 and PBA08 RI surface soil samples. The explosive compound pentaerythritol tetranitrate (PETN) was detected in the field duplicate for ISM sample ATAss-016M at a low, estimated concentration of 0.11J mg/kg. However, PETN was not detected in the corresponding primary sample at ATAss-016M under the PBA08 RI (Table 5-5). PBA08 RI surface soil samples confirm the overall absence of explosives and propellants at Anchor Test Area.

5.3.2 Inorganic Chemicals

As shown on Table 5-4, 10 inorganic chemicals (metals) were identified as SRCs from the population of representative surface soil ISM samples at Anchor Test Area. All of these SRCs had a frequency of detection of at least 50% of the ISM sample population, with the exception of thallium (3 of 7 detections). Figure 5-2 illustrates the distribution of inorganic SRCs in surface soil samples collected at Anchor Test Area. Results for the SRCs in discrete surface soil samples collected from the 0-1 ft bgs interval of the subsurface soil borings are also included in Figure 5-2, although these sample results are presented for nature and extent purposes only. Key trends and patterns noted in the distribution of inorganic SRCs are as follows:

- The maximum average concentrations for inorganic SRCs were generally observed at historical ISM sample area ATAss-001M in the vicinity of the former sand pit and the two PBA08 RI ISM samples (ATAss-015M and ATAss-016M). These three samples also contained the most SRCs above background concentrations, with 6 of the 10 SRCs at ATAss-001M and 5 of the 10 SRCs at ATAss-015M and ATAss-016M. Two of the identified inorganic SRCs have a background concentration of 0 mg/kg (i.e., cadmium and thallium). ISM sample ATAss-015M was collected to characterize the area downgradient of the former blast wall, inclusive of historical sample ATAss-001M.

- Arsenic was detected in all seven ISM samples, exceeding its screening levels in one historical sample location ATAss-005M at 54 mg/kg. Arsenic concentrations in all other samples were below the background concentration of 15.4 mg/kg. The PBA08 RI ISM sample location ATAss-016M was selected to delineate the extent of arsenic above screening levels near historical sample ATAss-005M. Arsenic was detected at ATAss-016M at 10 mg/kg, below the background concentration. As shown in Figure 5-2, a discrete soil sample collected from the 0-1 ft bgs interval for PBA08 RI soil boring ATAsb-011 located within the sample boundaries of ATAss-005M also exhibited arsenic concentrations below background concentrations. PBA08 RI sample ATAss-016M delineated the extent of arsenic above background concentrations in this area of the former test pit.

- Barium, beryllium, and manganese are evaluated together because they were detected in all ISM samples but only observed above their background concentrations at one sample location (ATAss-001M collected in 2004). Concentrations of barium and beryllium in the PBA08 RI sample (ATAss-015M) collected downgradient of the former blast walls were approximately one-half of those observed in sample ATAss-001M. Manganese concentrations at downgradient location ATAss-0015M were approximately one-third of those observed at ATAss-001M. A discrete soil sample collected from the 0-1 ft bgs interval at ATAsb-008, within the sample boundaries of ATAss-001M, exhibited concentrations well below background concentrations for all three of these SRCs.

- Cadmium concentrations were highest in surface soil in the vicinity of the former sand pit (sample ATAss-005M collected in 2004). However, since the concentration range for cadmium in ISM samples is narrow (0.1-0.18 mg/kg), no clear spatial trends are evident that all detections were comparable in magnitude.

- Chromium and nickel are evaluated together because they were detected at their maximum concentrations at the ISM sample location downgradient of the former blast wall area (PBA08 RI sample ATAss-015M). Chromium was detected above its background concentration at various locations (ATAss-002M) throughout the AOC; however, the highest concentrations were associated with the former blast wall area, as the next highest concentration occurred in one of the historical ISM locations upgradient of ATAss-015M. Nickel was detected in all samples collected at the AOC, exceeding its background screening level only in sample ATAss-015M.

- Cobalt and mercury are evaluated together because the highest concentrations of these analytes were detected at PBA08 RI ISM sample location ATAss-016M. Cobalt was detected in all ISM samples collected at the AOC, only exceeding screening criteria at this location (at 10.6 mg/kg versus a background concentration of 10.4 mg/kg). Mercury was observed above background screening levels at the majority of ISM locations at the AOC, although these detections comprised a generally narrow concentration range (0.038-0.062 mg/kg) and consequently do not exhibit any significant trends in spatial distribution.

- Thallium was detected in three samples and has a screening level of 0 mg/kg. The maximum concentration was observed at historical location ATAss-003M at the former blast mound area. Thallium was also detected at the ISM area downgradient of the former blast mound area (PBA08 RI sample ATAss-015M) and the ISM sample area delineating the former test pit (PBA08 RI sample ATAss-016M).

Table 5-4. SRC Screening Summary for Surface Soil

Analyte	CAS Number	Freq of Detect[a]	Minimum Detect	Maximum Detect	Average Result	Background Criteria[b]	SRC? (yes/no)	SRC Justification
Inorganic chemicals (mg/kg)								
Aluminum	7429-90-5	7/ 7	3300	13100	10400	17700	No	Below background
Antimony	7440-36-0	3/ 7	0.11	0.59	0.52	0.96	No	Below background
Arsenic	**7440-38-2**	**7/ 7**	**7.5**	**54**	**15.8**	**15.4**	**Yes**	**Exceeds background**
Barium	**7440-39-3**	**7/ 7**	**22**	**130**	**70.7**	**88.4**	**Yes**	**Exceeds background**
Beryllium	**7440-41-7**	**7/ 7**	**0.24**	**1.2**	**0.66**	**0.88**	**Yes**	**Exceeds background**
Cadmium	**7440-43-9**	**4/ 7**	**0.1**	**0.18**	**0.128**	**0**	**Yes**	**Exceeds background**
Calcium	7440-70-2	7/ 7	1100	18000	8700	15800	No	Essential Nutrient
Chromium	**7440-47-3**	**7/ 7**	**16**	**42.3**	**25.5**	**17.4**	**Yes**	**Exceeds background**
Cobalt	**7440-48-4**	**7/ 7**	**3.6**	**10.6**	**7.89**	**10.4**	**Yes**	**Exceeds background**
Copper	7440-50-8	7/ 7	9.3	16.8	12.6	17.7	No	Below background
Iron	7439-89-6	7/ 7	11000	26300	19200	23100	No	Essential Nutrient
Lead	7439-92-1	7/ 7	8.7	23	16.8	26.1	No	Below background
Magnesium	7439-95-4	7/ 7	1800	3700	3030	3030	No	Essential Nutrient
Manganese	**7439-96-5**	**7/ 7**	**330**	**1500**	**807**	**1450**	**Yes**	**Exceeds background**
Mercury	**7439-97-6**	**6/ 7**	**0.038**	**0.062**	**0.0429**	**0.036**	**Yes**	**Exceeds background**
Nickel	**7440-02-0**	**7/ 7**	**13**	**31.9**	**18.6**	**21.1**	**Yes**	**Exceeds background**
Potassium	7440-09-7	7/ 7	490	1100	886	927	No	Essential Nutrient
Selenium	7782-49-2	7/ 7	0.45	1	0.767	1.4	No	Below background
Sodium	7440-23-5	6/ 7	31.4	290	166	123	No	Essential Nutrient
Thallium	**7440-28-0**	**3/ 7**	**0.18**	**0.22**	**0.251**	**0**	**Yes**	**Exceeds background**
Vanadium	7440-62-2	7/ 7	6.8	24	18.3	31.1	No	Below background
Zinc	7440-66-6	7/ 7	49	57	53.9	61.8	No	Below background

Table 5-4. SRC Screening Summary for Surface Soil (continued)

Analyte	CAS Number	Freq of Detect[a]	Minimum Detect	Maximum Detect	Average Result	Background Criteria[b]	SRC? (yes/no)	SRC Justification
Semi-volatile Organic Compounds (mg/kg)								
2-Methylnaphthalene	**91-57-6**	**1/ 2**	**0.0092**	**0.0092**	**0.0129**	**None**	**Yes**	**Detected organic**
Benzo(b)fluoranthene	**205-99-2**	**1/ 2**	**0.014**	**0.014**	**0.0198**	**None**	**Yes**	**Detected organic**
Bis(2-ethylhexyl)phthalate	**117-81-7**	**1/ 2**	**0.069**	**0.069**	**0.077**	**None**	**Yes**	**Detected organic**
Naphthalene	**91-20-3**	**1/ 2**	**0.012**	**0.012**	**0.0143**	**None**	**Yes**	**Detected organic**

Note: SRC screening sample population includes incremental surface soil samples collected in both 2004 and 2010 representative of current AOC conditions.
[a]Background concentrations for 0-1 ft bgs from facility-wide background concentrations for RVAAP, published in the *Phase II Remedial Investigation Report for Winklepeck Burning Grounds* (USACE 2001b).
AOC = Area of Concern
bgs = below ground surface
SRC = Site-related Contaminant
CAS = Chemical Abstract Service
Bold indicates analyte identified as an SRC.

Table 5-5. Analytes Detected in PBA08 RI Surface Soil ISM Samples

Sample Station		ATAss-015M	ATAss-016M	ATAss-016M
Sample Id		ATAss-015M-5036-SO	ATAss-016M-6047-FD	ATAss-016M-5037-SO
Date		02/17/10	02/17/10	02/17/10
Depth (ft)		0.0-1.0	0.0-1.0	0.0-1.0
Parameters Analyzed[a]	Background Criteria[b]	RVAAP Full-suite analytes	TAL Metals, Explosives	TAL Metals, Explosives
Analyte				
Inorganic chemicals (mg/kg)				
Aluminum	17700	13100	12200	11400
Antimony	0.96	0.14 J	0.11 J	0.11 J
Arsenic	15.4	12	10.8	10
Barium	88.4	61.9	70.4	70.8
Beryllium	0.88	0.54	0.55	0.54
Cadmium	0	**0.1 J***	**0.16 J***	**0.16 J***
Calcium	15800	5000	1150	1100
Chromium	17.4	**42.3 ***	**28 ***	**25.2 ***
Cobalt	10.4	9	10	**10.6 ***
Copper	17.7	16.8	10.9	10.1
Iron	23100	**26300 ***	**24200 ***	22300
Lead	26.1	15	18.1	18.9
Magnesium	3030	**3680 ***	2350	2230
Manganese	1450	418	1170	1260
Mercury	0.036	**0.038 J***	**0.049 J***	**0.062 J***
Nickel	21.1	**31.9 ***	20	18.1
Potassium	927	**1080 ***	753	661
Selenium	1.4	0.86	0.85	0.9
Sodium	123	49.8 J	32.5 J	31.4 J
Thallium	0	**0.18 J***	**0.17 J***	**0.18 J***
Vanadium	31.1	21.1	24	22.1
Zinc	61.8	53.7	56.6	49.6
Explosives and Propellants (mg/kg)				
PETN	None	<0.5 U	**0.11 J***	<0.5 U
Semi-volatiles (mg/kg)				
2-Methylnaphthalene	None	**0.0092 J***	NR	NR
Bis(2-ethylhexyl)phthalate	None	**0.069 J***	NR	NR
Naphthalene	None	**0.012 J***	NR	NR

[a]Only detected analytes are presented in the summary table.
[b]Background concentrations are the lower of the background concentrations for 0-1 ft bgs and 1-12 ft bgs from facility-wide background concentrations for RVAAP, published in the *Phase II Remedial Investigation Report for Winklepeck Burning Grounds* (USACE 2001b).

bgs = below ground surface
FD = Field Duplicate
Id = identification
ISM = Incremental Sampling Method
J = estimated value less than reporting limits
mg/kg = milligrams per kilogram
NR = not reported/not analyzed
PETN = Pentaerythritol tetranitrate
SO = soil
TAL = Target Analyte List
U= not detected
UJ = not detected, reporting limit estimated
*** = Result exceeds background concentration**
< = less than

Table 5-6. Analytes Detected in PBA08 RI Surface Soil Discrete Samples

Station	Background Criteria[b]	ATAsb-006	ATAsb-006	ATAsb-008
Sample Id		ATAsb-006-6080-FD	ATAsb-006-5127-SO	ATAsb-008-5133-SO
Date		02/24/10	02/24/10	02/24/10
Depth (ft)		0.0-1.0	0.0-1.0	0.0-1.0
Parameters Analyzed[a]		TAL Metals Explosives	TAL Metals Explosives	RVAAP Full-suite analytes
Analyte				
Inorganic chemicals (mg/kg)				
Aluminum	17700	2400 J	2490 J	2680 J
Antimony	0.96	0.1 J	0.12 J	0.1 J
Arsenic	15.4	8	7.4	5.8
Barium	88.4	15.4	16.5	13.4
Beryllium	0.88	0.15	0.15	0.14
Cadmium	0	**0.19 J***	**0.095 J***	**0.069 J***
Calcium	15800	**26400 ***	**17600 ***	15800
Chromium	17.4	4.9	5.1	4.9
Chromium, hexavalent		NR	NR	NR
Cobalt	10.4	3.2	3.8	3.4
Copper	17.7	11.3	13.3	13.4
Iron	23100	12100	12400	12000
Lead	26.1	7.6	7.7	8.1
Magnesium	3030	2600	**4580 ***	2850
Manganese	1450	289	243	247
Mercury	0.036	0.017 J	**0.061 J***	<0.11 U
Nickel	21.1	8.6	8.4	8.5
Potassium	927	309	289	331
Selenium	1.4	0.48 J	0.51 J	0.74
Silver	0	**0.028 J***	<0.021 UJ	**0.014 J***
Sodium	123	37.7 J	35.2 J	31.7 J
Thallium	0	**0.075 J***	**0.068 J***	<0.23 U
Vanadium	31.1	5.6	5.7	5
Zinc	61.8	44.1	49.3	38.1
Explosives and Propellants (mg/kg)				
Nitrocellulose	None	NR	NR	**0.97 J***
Volatile Organic Compounds (mg/kg)				
Toluene	None	NR	NR	**0.00034 J***

Table 5-6. Analytes Detected in PBA08 RI Surface Soil Discrete Samples (continued)

Station	Background Criteria[b]	ATAsb-009	ATAsb-010	ATAsb-011
Sample Id		ATAsb-009-5137-SO	ATAsb-010-5141-SO	ATAsb-011-5145-SO
Date		02/24/10	02/24/10	02/24/10
Depth (ft)		0.0-1.0	0.0-1.0	0.0-1.0
Parameters Analyzed[a]		TAL Metals Explosives	TAL Metals Explosives	TAL Metals Explosives
Analyte				
Inorganic chemicals (mg/kg)				
Aluminum	17700	16400 J	15400	13100 J
Antimony	0.96	0.11 J	0.15 J	0.13 J
Arsenic	15.4	12.7	11.6	11.6
Barium	88.4	49.2	47.9 J	65.1
Beryllium	0.88	0.64	0.4	0.57
Cadmium	0	**0.042 J***	**0.028 J***	**0.12 J***
Calcium	15800	2270	542	961
Chromium	17.4	**20.9 ***	**18 ***	16.9
Chromium, hexavalent		NR	NR	NR
Cobalt	10.4	8.8	5.7	**12 ***
Copper	17.7	**20.9 ***	11.1	8.5
Iron	23100	**30200 ***	**25200 ***	**25900 ***
Lead	26.1	13.3	12.2	19.7
Magnesium	3030	**3810 ***	2660	2300
Manganese	1450	204	184	1180
Mercury	0.036	**0.049 J***	**0.048 J***	**0.077 J***
Nickel	21.1	**25.1 ***	12.5	12.5
Potassium	927	**1450 ***	923	890
Selenium	1.4	0.86	0.87	1.1
Silver	0	**0.021 J***	**0.024 J***	**0.04 J***
Sodium	123	43.8 J	103 J	36.9 J
Thallium	0	**0.17 J***	**0.2 J***	**0.17 J***
Vanadium	31.1	24.3	30.1	27.4
Zinc	61.8	60.9	41.9	57.1
Explosives and Propellants (mg/kg)				
Nitrocellulose	None	NR	NR	NR
Volatile Organic Compounds (mg/kg)				
Toluene	None	NR	NR	NR

FD = Field Duplicate
Id = identification
ISM = Incremental Sampling Method
J = estimated value less than reporting limits
mg/kg = milligrams per kilogram
NR = not reported/not analyzed
TAL = Target Analyte List

5.3.3 Semi-volatile Organic Compounds

A total of 4 SVOCs were identified as SRCs from the population of representative ISM samples (Table 5-4). All SVOCs identified as SRCs were PAHs, with the exception of bis(2-ethylhexyl)phthalate. Figure 5-2 illustrates the distribution of SVOCs exceeding screening levels in surface soil.

Bis(2-ethylhexyl)phthalate, 2-methylnapthalene, and naphthalene were detected at PBA08 RI sample location ATAss-015M. Benzo(b)fluoranthene was detected in the 2004 sample from location ATAss-003M. All of these detections were estimated levels less than reporting limits.

5.3.4 Volatile Organic Compounds, Pesticides, and Polychlorinated Biphenyls

No VOCs, pesticides, or PCBs were detected or identified as SRCs in surface soil at this AOC.

5.4 CONTAMINANT NATURE AND EXTENT IN SUBSURFACE SOIL

Five soil borings were completed at Anchor Test Area during the PBA08 RI to define the vertical extent of contamination in subsurface soil. Bedrock was not encountered in any of the subsurface borings advanced. Groundwater was generally encountered at depths of approximately 8.7-13 ft bgs across the AOC. Discrete subsurface soil samples were collected from the 1.0-4.0 ft bgs and 4.0-7.0 ft bgs intervals at all five boring locations, with an additional sample from the 7.0-13.0 ft bgs interval collected at location ATAsb-006. During the previous investigation at Anchor Test Area, two subsurface soil samples were collected from locations ATAss-001M and ATAss-002M. However, these were not discrete samples but composite samples comprised of five aliquots per sample area. Due to the difference in sampling methodology, the historical samples at ATAss-001M and ATAss-002M were used for contaminant nature and extent purposes (Figure 5-3) but were not incorporated into the SRC screening process.

Nine samples from the PBA08 RI subsurface soil borings were analyzed for TAL metals and explosives; two samples, both intervals at station ATAsb-008, were analyzed for RVAAP full-suite analytes (TAL metals, explosives, SVOCs, VOCs, PCBs, pesticides). Table 5-7 presents the results of the SRC screening for subsurface soil samples, and Table 5-8 summarizes the analytical results for all detected analytes. Complete copies of all analytical results are presented in Appendix D. Figure 5-3 illustrates the distribution of identified subsurface soil of SRCs in all samples collected at Anchor Test Area.

Table 5-7. SRC Screening Summary for Subsurface Soil

Analyte	CAS Number	Freq of Detect	Minimum Detect	Maximum Detect	Average Result	Background Criteria[a]	SRC? (yes/no)	SRC Justification
Inorganic chemicals (mg/kg)								
Aluminum	7429-90-5	11/ 11	2100	15800	7180	19500	No	Below background
Antimony	7440-36-0	11/ 11	0.067	0.11	0.0836	0.96	No	Below background
Arsenic[b]	7440-38-2	11/ 11	5.1	13.3	9.22	19.8	No	Below background
Barium[b]	7440-39-3	11/ 11	12.5	104	45.5	124	No	Below background
Beryllium[b]	7440-41-7	11/ 11	0.14	0.81	0.376	0.88	No	Below background
Cadmium	**7440-43-9**	**11/ 11**	**0.042**	**0.086**	**0.0696**	**0**	**Yes**	**Exceeds background**
Calcium	7440-70-2	11/ 11	1280	52100	23700	35500	No	Essential Nutrient
Chromium[b]	7440-47-3	11/ 11	3.6	22.2	11.2	27.2	No	Below background
Cobalt[b]	7440-48-4	11/ 11	2.6	13.8	7	23.2	No	Below background
Copper	7440-50-8	11/ 11	9.1	23.1	16.3	32.3	No	Below background
Iron	7439-89-6	11/ 11	11300	29700	19600	35200	No	Essential Nutrient
Lead	7439-92-1	11/ 11	5.5	13	9.04	19.1	No	Below background
Magnesium	7439-95-4	11/ 11	2670	19300	6090	8790	No	Essential Nutrient
Manganese[b]	7439-96-5	11/ 11	167	437	316	3030	No	Below background
Mercury[b]	7439-97-6	2/ 11	0.033	0.04	0.0539	0.044	No	Below background
Nickel	7440-02-0	11/ 11	6.6	38.6	18	60.7	No	Below background
Potassium	7440-09-7	11/ 11	287	2460	1020	3350	No	Essential Nutrient
Selenium	7782-49-2	11/ 11	0.39	1.1	0.682	1.5	No	Below background
Silver	**7440-22-4**	**10/ 11**	**0.011**	**0.023**	**0.0167**	**0**	**Yes**	**Exceeds background**
Sodium	7440-23-5	11/ 11	40	96.4	60.6	145	No	Essential Nutrient
Thallium[b]	7440-28-0	8/ 11	0.084	0.2	0.141	0.91	No	Below background
Vanadium	7440-62-2	11/ 11	4.6	25.2	12.7	37.6	No	Below background
Zinc	7440-66-6	11/ 11	32.1	68.8	51.5	93.3	No	Below background

Table 5-7. SRC Screening Summary for Subsurface Soil (continued)

Analyte	CAS Number	Freq of Detect	Minimum Detect	Maximum Detect	Average Result	Background Criteria[a]	SRC? (yes/no)	SRC Justification
Semi-volatile Organic Compounds (mg/kg)								
Bis(2-ethylhexyl)phthalate	**117-81-7**	**1/ 2**	**0.025**	**0.025**	**0.1**	**n/a**	**Yes**	**Detected organic**
Volatile Organic Compounds (mg/kg)								
Methylene chloride	**75-09-2**	**1/ 2**	**0.0008**	**0.0008**	**0.00173**	**n/a**	**Yes**	**Detected organic**
Toluene	**108-88-3**	**2/ 2**	**0.00043**	**0.0005**	**0.000465**	**n/a**	**Yes**	**Detected organic**

Note: SRC screening sample population does not include the subsurface soil samples collected in 2004, as these utilized a different sampling methodology (composite) relative to those collected in 2010 (discrete).

[a]Background concentrations for 0-1 ft bgs from facility-wide background concentrations for RVAAP, published in the *Phase II Remedial Investigation Report for Winklepeck Burning Grounds* (USACE 2001b).

[b]Analyte was identified as an SRC in corresponding surface soil interval; however, was not an SRC in the subsurface soil interval.

bgs = below ground surface

CAS = Chemical Abstract Service

n/a = there is no background concentration for organic compounds

SRC = Site-related Contaminant

Bold indicates analyte identified as an SRC.

Table 5-8. Analytes Detected in PBA08 RI Subsurface Soil Samples

Station		ATAsb-006	ATAsb-006	ATAsb-006	ATAsb-008	ATAsb-008
Sample Id		ATAsb-006-5128-SO	ATAsb-006-5129-SO	ATAsb-006-5130-SO	ATAsb-008-5134-SO	ATAsb-008-5135-SO
Date		02/24/10	02/24/10	02/24/10	02/24/10	02/24/10
Depth (ft)		1.0-4.0	4.0-7.0	7.0-13.0	1.0-4.0	4.0-7.0
Parameters Analyzed[a]	Background Criteria[b]	TAL Metals Explosives	TAL Metals Explosives	TAL Metals Explosives	RVAAP Full-suite analytes	RVAAP Full-suite analytes
Analyte						
Inorganic chemicals (mg/kg)						
Aluminum	19500	2100 J	2740	3520	2370 J	2230
Antimony	0.96	0.085 J	0.072 J	0.089 J	0.11 J	0.067 J
Arsenic	19.8	6.8	6.4	11.3	6.3	5.1
Barium	124	12.9	15.7	24.5	16.3	12.5
Beryllium	0.88	0.15	0.15	0.17	0.14	0.16
Cadmium	0	**0.063 J***	**0.059 J***	**0.086 J***	**0.063 J***	**0.062 J***
Calcium	35500	**52100 ***	20700	15900	25600	**45400 ***
Chromium	27.2	3.6	4.9	5.7	4.2	5.4
Cobalt	23.2	2.9	3.2	4.9	3	2.6
Copper	32.3	9.7	11	20.9	11.2	9.1
Iron	35200	12000	11300	16700	12700	14400
Lead	19.1	6.3	5.7	9.8	5.5	5.6
Magnesium	8790	2670	6540	3810	3010	**19300 ***
Manganese	3030	420	274	290	230	316
Mercury	0.044	<0.11 U	<0.11 U	<0.13 U	<0.11 U	<0.11 U
Nickel	60.7	7.5	8.8	12.4	8.5	6.6
Potassium	3350	287	456	571	336	370
Selenium	1.5	0.69	0.46 J	0.58 J	0.57	0.39 J
Silver	0	**0.017 J***	**0.014 J***	<0.018 UJ	**0.017 J***	**0.011 J***
Sodium	145	48.9 J	43.6 J	42.7 J	40 J	62.6 J
Thallium	0.91	<0.21 U	0.084 J	0.13 J	<0.21 U	<0.21 U
Vanadium	37.6	4.6	5.3	7.2	5	5.2
Zinc	93.3	32.1	49.2	61.7	45.3	35.1
Semi-volatile Organic Compounds (mg/kg)						
Bis(2-ethylhexyl)phthalate	None	NR	NR	NR	<0.35 UJ	**0.025 J***
Volatile Organic Compounds (mg/kg)						
Methylene chloride	None	NR	NR	NR	<0.0053 U	**0.0008 J***
Toluene	None	NR	NR	NR	**0.00043 J***	**0.0005 J***

Table 5-8. Analytes Detected in PBA08 RI Subsurface Soil Samples (continued)

Station		ATAsb-009	ATAsb-009	ATAsb-009	ATAsb-010	ATAsb-010
Sample Id		ATAsb-009-5138-SO	ATAsb-009-6081-FD	ATAsb-009-5139-SO	ATAsb-010-5142-SO	ATAsb-010-5143-SO
Date		02/24/10	02/24/10	02/24/10	02/24/10	02/24/10
Depth (ft)		1.0-4.0	4.0-7.0	4.0-7.0	1.0-4.0	4.0-7.0
Parameters Analyzed[a]	Background Criteria[b]	TAL Metals Explosives	TAL Metals Explosives	TAL Metals Explosives	TAL Metals Explosives	TAL Metals Explosives
Analyte						
Inorganic chemicals (mg/kg)						
Aluminum	19500	14900 J	4370 J	5210	12600 J	7340
Antimony	0.96	0.084 J	0.076 J	0.071 J	0.1 J	0.078 J
Arsenic	19.8	10.7	9.8	8.7	13.3	10.9
Barium	124	96.1	26	32.5	104	46.9
Beryllium	0.88	0.81	0.24	0.28	0.72	0.41
Cadmium	0	**0.082 J***	**0.08 J***	**0.062 J***	**0.085 J***	**0.082 J***
Calcium	35500	26000	12900	15900	1780	31300
Chromium	27.2	22.2	7.2	8.4	18.2	12.6
Cobalt	23.2	13.8	4.9	5.5	13.5	8.1
Copper	32.3	20.1	16.1	15.6	23.1	19.4
Iron	35200	28600	14400	15700	28600	21300
Lead	19.1	11.9	8.6	8.1	13	10.1
Magnesium	8790	7690	3660	4140	4560	5110
Manganese	3030	437	246	243	426	295
Mercury	0.044	0.033 J	<0.12 U	<0.11 U	<0.12 U	<0.12 U
Nickel	60.7	32.5	12.1	13.9	38.6	19
Potassium	3350	2460	827	1050	1530	1230
Selenium	1.5	1	0.67	0.48 J	1.1	0.66
Silver	0	**0.02 J***	**0.019 J***	**0.02 J***	**0.013 J***	**0.023 J***
Sodium	145	96.4 J	61.3 J	59.2 J	66.3 J	70.3 J
Thallium	0.91	0.2 J	0.089 J	0.12 J	0.18 J	0.16 J
Vanadium	37.6	25.2	9.5	10.3	20.2	14
Zinc	93.3	60.4	52	47.9	68.8	57.2
Semi-volatile Organic Compounds (mg/kg)						
Bis(2-ethylhexyl)phthalate	None	NR	NR	NR	NR	NR
Volatile Organic Compounds (mg/kg)						
Methylene chloride	None	NR	NR	NR	NR	NR
Toluene	None	NR	NR	NR	NR	NR

Table 5-8. Analytes Detected in PBA08 RI Subsurface Soil Samples (continued)

Station		**ATAsb-011**	**ATAsb-011**
Sample Id		**ATAsb-011-5146-SO**	**ATAsb-011-5147-SO**
Date		**02/24/10**	**02/24/10**
Depth (ft)		**1.0-4.0**	**4.0-7.0**
Parameters Analyzed [a]		**TAL Metals Explosives**	**TAL Metals Explosives**
Analyte	**Background Criteria[b]**		
Inorganic chemicals (mg/kg)			
Aluminum	19500	15800 J	10200
Antimony	0.96	0.09 J	0.074 J
Arsenic	19.8	12.2	9.7
Barium	124	80.6	59
Beryllium	0.88	0.6	0.55
Cadmium	0	**0.042 J***	**0.08 J***
Calcium	35500	1280	25000
Chromium	27.2	20.9	16.6
Cobalt	23.2	9.1	10.4
Copper	32.3	20	18.9
Iron	35200	29700	24700
Lead	19.1	12.8	10.6
Magnesium	8790	3920	6190
Manganese	3030	167	383
Mercury	0.044	0.04 J	<0.12 U
Nickel	60.7	25.2	25.3
Potassium	3350	1110	1870
Selenium	1.5	0.91	0.66
Silver	0	**0.021 J***	**0.019 J***
Sodium	145	45.5 J	91.5 J
Thallium	0.91	0.18 J	0.18 J
Vanadium	37.6	23.8	18.6
Zinc	93.3	52.5	56.3
Semi-volatile Organic Compounds (mg/kg)			
Bis(2-ethylhexyl)phthalate	None	NR	NR
Volatile Organic Compounds (mg/kg)			
Methylene chloride	None	NR	NR
Toluene	None	NR	NR

[a]Only detected analytes are presented in the summary table.
[b]Background concentrations are the lower of the background concentrations for 0-1 ft bgs and 1-12 ft bgs from facility-wide background concentrations for RVAAP, published in the *Phase II Remedial Investigation Report for Winklepeck Burning Grounds* (USACE 2001b).

< = less than
bgs = below ground surface
J = estimated value
mg/kg = milligrams per kilogram
UJ = not detected, reporting limit estimated
PAHs = Polycyclic Aromatic Hydrocarbon
PBA08 RI = Performance-Based Acquisition 2008 Remedial Investigation
RVAAP = Ravenna Army Ammunition Plant
TAL= Target Analyte List
U= not detected
NR = not reported/not analyzed
*** = result exceeds background concentration**

5.4.1 Explosives and Propellants

No explosives or propellants were detected or identified as SRCs in subsurface soil samples at this AOC.

5.4.2 Inorganic Chemicals

A total of two inorganic chemicals (cadmium and silver) were identified as SRCs in subsurface soil samples. A background concentration of 0 mg/kg is utilized in the SRC screen for these metals. As shown on Figure 5-3, the majority of detections for cadmium and silver were at low, estimated concentrations (less than reporting limits).

No trends are evident in the distribution of silver and cadmium at the AOC, either spatially or with respect to vertical extent in surface soil (> 1 ft bgs). Both inorganic chemicals exhibited a limited concentration range, from 0.042 to 0.086 mg/kg for cadmium and from 0.011 to 0.023 mg/kg for silver. The maximum concentration for cadmium was observed at soil boring location ATAsb-006 in the 7.0-13.0 ft bgs interval. For silver, the maximum concentration was detected at soil boring location ATAsb-010 in the 4.0-7.0 ft bgs. Neither silver nor cadmium were detected in either of the historical subsurface soil samples collected at ATAss-001M or ATAss-002M. As shown in Figure 5-2, detected cadmium concentrations in surface soil (< 1 ft bgs) were marginally higher than those observed in the subsurface soil samples. Silver was not detected in any of the ISM or discrete surface soil samples.

5.4.3 Semi-volatile Organic Compounds

The SVOC bis(2-ethylhexyl)phthalate was detected at sample location ATAsb-008 in the 4.0-7.0 ft bgs interval at a low, estimated concentration (less than the laboratory reporting limit); therefore, identified as an SRC. No SVOCs were detected in the 1.0-4.0 ft bgs sample interval from this location.

5.4.4 Volatile Organic Compounds, Pesticides, and Polychlorinated Biphenyls

Two VOCs (methylene chloride and toluene) were detected at sample location ATAsb-008. Toluene was detected in both the 1.0-4.0 and 4.0-7.0 ft bgs sample intervals from this location, and methylene chloride was detected only in the sample collected at 4.0-7.0 ft bgs. All VOC detections at ATAsb-008 were at low, estimated concentrations (less than the laboratory reporting limit). Pesticides and PCBs were not detected at sample location ATAsb-008.

5.5 GEOTECHNICAL SUBSURFACE SOIL SAMPLE

Two samples were collected at intervals of 4.0-4.9 and 10.0-12.0 ft bgs from one soil boring (ATAsb-007) for the purpose of obtaining geotechnical parameters to perform vadose zone soil leaching and groundwater transport modeling. Table 5-9 summarizes the results of the geotechnical

characteristics of Anchor Test Area soil. Complete copies of analytical and test results are presented in Appendix D.

Table 5-9. Summary of Geotechnical Parameters

Parameters	Sample ID	
	ATAsb-007-5131-SO	ATAsb-007-5132-SO
Collection depth	4.0-4.9 ft bgs	10.0-12.0 ft bgs
Porosity	31.3 %	50.3 %
Density	1.88 g/cm^3	1.34 g/cm^3
Moisture content	14.1 %	19.91 %
Total organic carbon	1,100 mg/kg	580J mg/kg
Size fraction analysis	1.1% gravel, 17.3% sand, 39.8% silt, 41.9% clay	39.1 % sand, 60.2 % silt, 0.7 % clay
Permeability (K)	4.9E-07 cm/sec	1.3E-04 cm/sec

J = estimated value
bgs = below ground surface

5.6 SUMMARY OF CONTAMINANT NATURE AND EXTENT

Between the two media (surface and subsurface soil) evaluated, surface soil (0-1 ft bgs) contains the majority of the SRCs. Fourteen SRCs were identified in surface soil (0-1 ft bgs) and five SRCs were identified in subsurface soil (>1 ft bgs). Only cadmium and bis(2-ethylhexyl)phthalate were identified as SRCs in both media.

5.6.1 Surface Soil

The highest concentrations of inorganic SRCs were generally observed in historical ISM sample location ATAss-005M, the historical ISM sample area in the vicinity of the former blast wall mounds (ATAss-001M), and the two PBA08 RI ISM samples (ATAss-015M and ATAss-016M). These four samples also contained the greatest number of inorganic SRCs above background concentrations, although two of the surface soil SRCs have an established background concentration of 0 mg/kg. Four SVOCs were identified as SRCs at the AOC, with three of these SVOCs occurring at one sample location (ATAss-015M). No explosives, propellants, VOCs, pesticides, or PCBs were detected or identified as SRCs in surface soil at this AOC.

5.6.2 Subsurface Soil

Soil overburden is greater than 13 ft in thickness across the AOC, with groundwater encountered at approximately 8.7-13 ft bgs. Cadmium and silver were ubiquitous in the subsurface soil samples, although no spatial or vertical trends were evident and both metals occurred within a narrow range of concentrations. One SVOC [bis(2-ethylhexy)phthalate] and two VOCs (methylene chloride and toluene) were detected at location ATAsb-008; all three organic chemicals were detected in the 4.0-7.0 ft bgs interval, and one VOC was detected in the 1.0-4.0 ft bgs interval. Explosives, propellants, pesticides, and PCBs were not detected in any subsurface soil sample.

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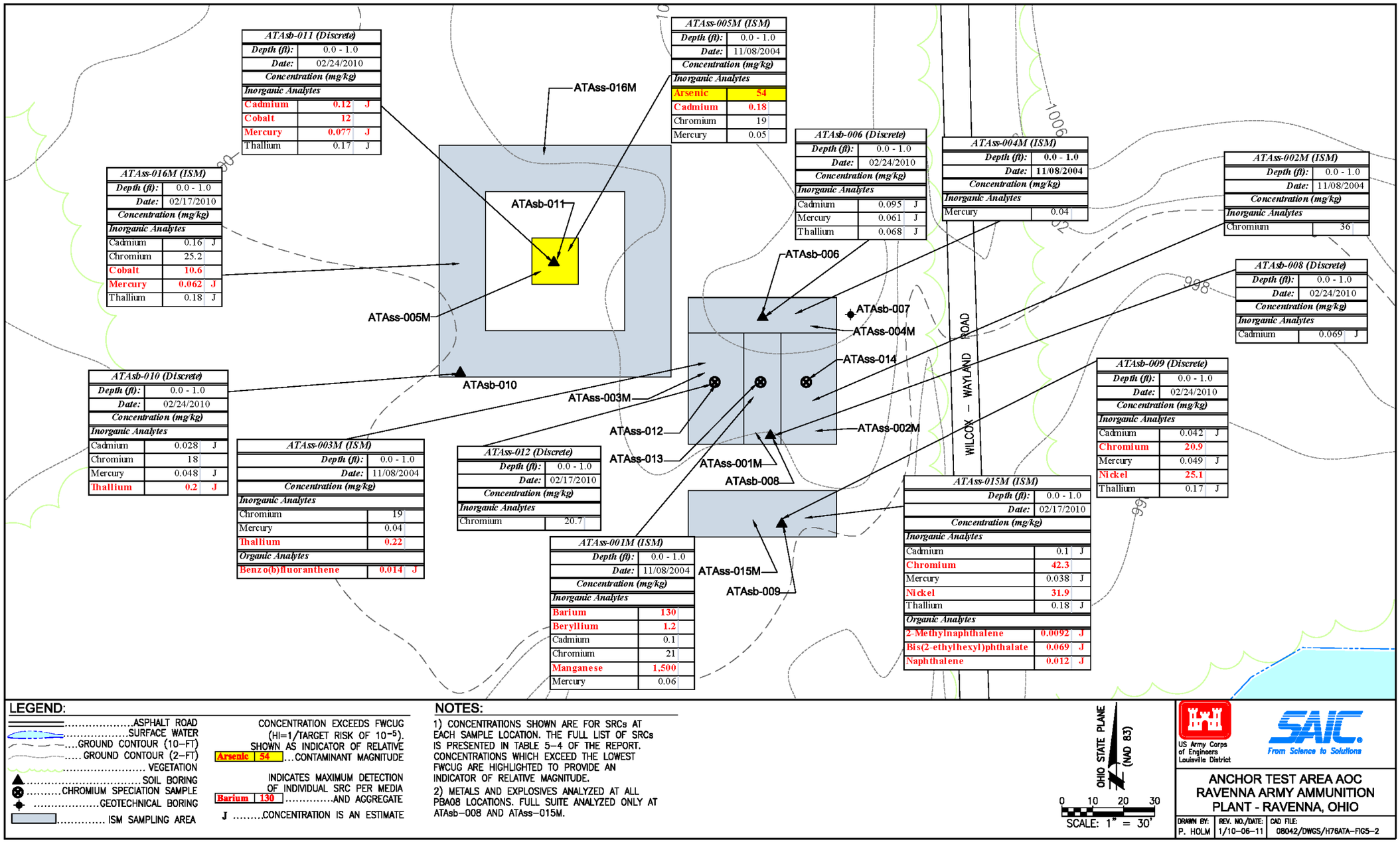

Figure 5-2. Concentrations of SRCs Detected in Surface Soil

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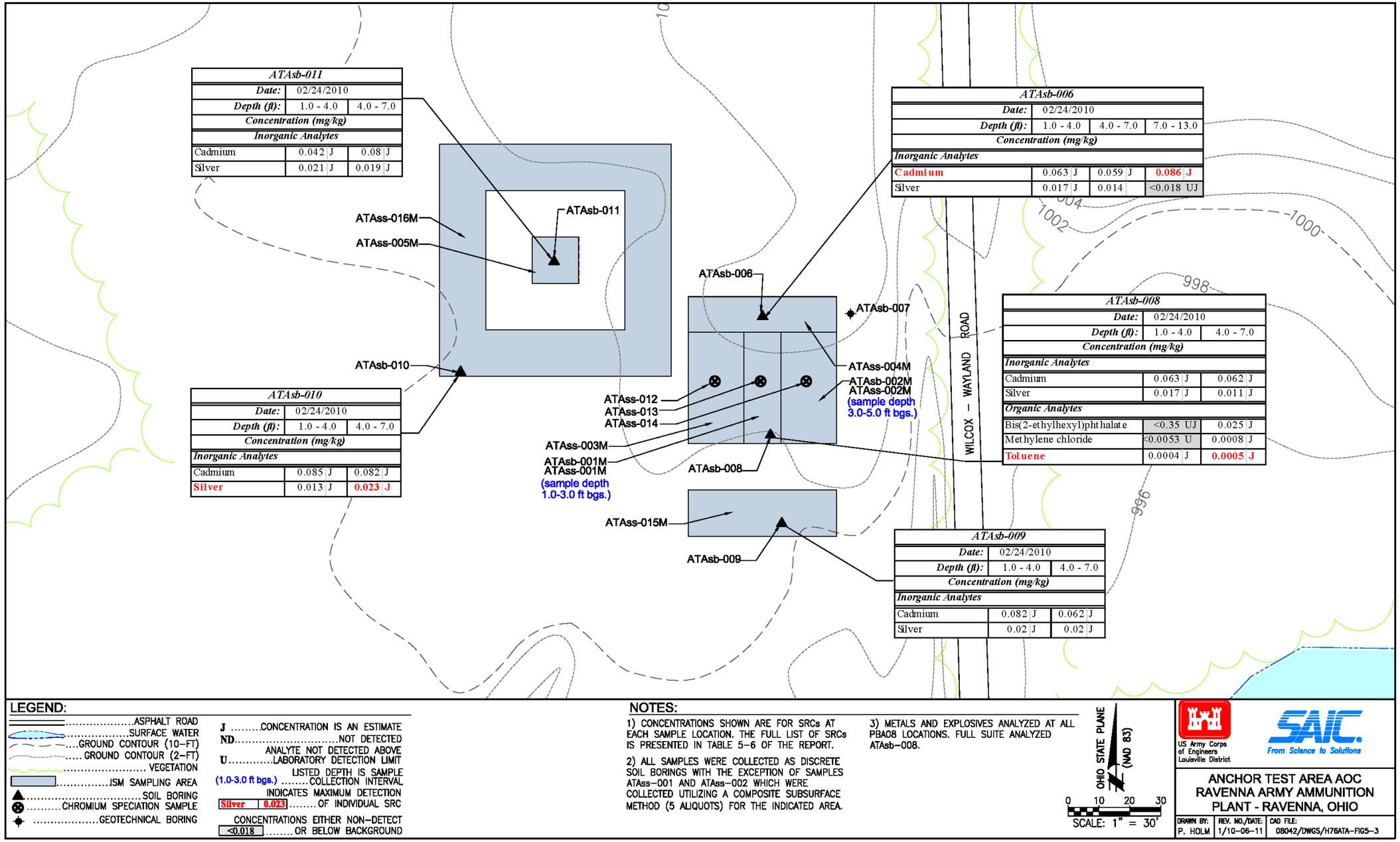

Figure 5-3. Concentrations of SRCs Detected in Subsurface Soil

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6.0 CONTAMINANT FATE AND TRANSPORT

Contaminant fate and transport evaluation assesses the potential for contaminants to leach from surface and subsurface soil sources at Anchor Test Area and impact groundwater beneath the sources and downgradient receptor locations. This evaluation is included in the decision-making process to determine whether remedial actions of sources may be necessary to protect groundwater resources. Only SRCs found in the surface soil and subsurface soil sample aggregates are evaluated in the fate and transport assessment for this AOC.

Computer-based contaminant fate and transport analyses were performed to predict the rate of contaminant migration through soil to groundwater (i.e., transport media) and to conservatively estimate future contaminant concentrations beneath the source. Fate and transport modeling was used to simulate vertical transport of contaminants from surface and subsurface soil sources in the AOC containing maximum observed SRCs to groundwater, as well as mixing of leachate with the saturated groundwater system beneath the source area. A summary of the principles of contaminant fate and transport is presented in this section along with the results of the screening-level modeling evaluations.

Section 6.1 describes the physical and chemical properties of the SRCs found in soil at the AOC. Section 6.2 presents a conceptual model for contaminant fate and transport that considers AOC topography, hydrogeology, contaminant sources, and release mechanisms. Section 6.3 presents a soil screening analysis to identify SRCs with the potential to migrate from soil to groundwater as initial CMCOPCs. Section 6.4 describes fate and transport modeling and presents CMCOCs. The summary and conclusions of the fate and transport analyses are presented in Section 6.5.

6.1 PHYSICAL AND CHEMICAL PROPERTIES OF SITE-RELATED CONTAMINANTS

Surface and subsurface soil SRCs (including 11 inorganic chemicals and 6 organic chemicals) were developed in Section 5.0 and are summarized below:

- Inorganic SRCs in surface and subsurface soil include: arsenic, barium, beryllium, cadmium, chromium, cobalt, manganese, mercury, nickel, silver, and thallium.

- Organic SRCs in surface and subsurface soil include: 2-methylnaphthalene, benzo(b)fluoranthene, bis(2-ethylhexyl)phthalate, naphthalene, methylene chloride, and toluene.

These inorganic and organic SRCs are in continuous chemical and physical interaction with ambient surface and subsurface environments. The observed distributions of chemical concentrations in the environment are the result of these interactions. These interactions also determine the chemical fate of this material. Chemicals released into the environment are susceptible to several degradation pathways including hydrolysis, oxidation, reduction, isomerization, photolysis, photo-oxidation, biotransformation, and biodegradation. Transformation products resulting from these processes may behave differently than their parent compound in the environment.

The migration of chemicals is governed by the physical and chemical properties of the chemicals and the surface and subsurface media through which the chemicals are transferred. In general, chemicals and structures with similar physical and chemical characteristics will show similar patterns of transformation, transport, or attenuation in the environment. Solubility, vapor pressure data, chemical partitioning coefficients, degradation rates, and Henry's Law Constant (HLC) provide information that can be used to evaluate contaminant mobility in the environment. Partitioning coefficients are used to assess the relative affinities of chemicals for solution or solid phase adsorption. However, the synergistic effects of multiple migrating chemicals and the complexity of soil/water interactions, including pH and oxidation-reduction potential (Eh), grain size, and clay mineral variability, are typically unknown.

The physical properties of the chemicals defined as SRCs in surface and subsurface soil are summarized in Tables E-1 and E-2 in Appendix E. The properties are used to assess the anticipated behavior of each chemical under environmental conditions.

6.1.1 Chemical Factors Affecting Fate and Transport

The water solubility of a chemical is a measure of the saturated concentration of the chemical in water at a given temperature and pressure. The tendency for a chemical to be transported by groundwater is directly related to its solubility and inversely related to both its tendencies to adsorb to soil and to volatilize from water (OGE 1988). Chemicals with high water solubilities tend to desorb from soil, are less likely to volatilize from water, and are susceptible to biodegradation. The water solubility of a compound varies with temperature, pH, and the presence of other dissolved chemicals (including organic carbon and humic acids).

The octanol-water partition coefficient (K_{ow}) can be used to estimate the tendency for a chemical to partition between environmental phases of different polarity. The K_{ow} is a laboratory-determined ratio of the concentration of a chemical in the n-octanol phase of a two-phase system to the concentration in the water phase. Chemicals with log K_{ow} values less than 1 are highly hydrophilic, while chemicals with log K_{ow} values greater than 4 will partition to soil particles (Lyman et al. 1990).

The water/organic carbon partition coefficient (K_{oc}) is a measure of the tendency of an organic chemical to partition between water and organic carbon in the soil. The K_{oc} is defined as the ratio of the absorbed chemical per unit weight of organic carbon to the aqueous solute concentration. This coefficient can be used to estimate the degree to which an organic chemical will adsorb to soil and, thus, not migrate with groundwater. The higher the K_{oc} value, the greater is the tendency of the chemical to partition into soil (OGE 1988). The sorption coefficient (K_d) is calculated by multiplying the K_{oc} value by the fraction of organic carbon in the soil.

Vapor pressure is a measure of the pressure at which a chemical and its vapor are in equilibrium. The value can be used to determine the extent to which a compound would travel in air, as well as the rate of volatilization from soil and solution (OGE 1988). In general, chemicals with vapor pressures lower than 10^{-7} mm mercury will not be present in the atmosphere or air spaces in soil in significant amounts, while

chemicals with vapor pressures higher than 10^{-2} mm mercury will exist primarily in the air (Dragun 1988).

The HLC value for a chemical is a measure of the ratio of the chemical's vapor pressure to its aqueous solubility. The HLC value can be used to make general predictions about the chemical's tendency to volatilize from water. Substances with HLC values less than 10^{-7} atm-m^3/mol will generally volatilize slowly, while chemicals with an HLC greater than 10^{-3} atm-m^3/mol will volatilize rapidly (Lyman et al. 1990).

6.1.2 Biodegradation

Organic chemicals with differing chemical structures will biodegrade at different rates. Primary biodegradation consists of any biologically-induced structural change in an organic chemical. Complete biodegradation is the biologically-mediated degradation of an organic chemical into carbon dioxide, water, oxygen, and other metabolic inorganic products (Dragun 1988). The first order biodegradation rate of an organic chemical is proportional to the concentration:

$$-dC/dt = kC \qquad \text{(Equation 6-1)}$$

Where:

C = concentration
t = time
k = biodegradation rate constant = $\ln 2 / t_{1/2}$
$t_{1/2}$ = biodegradation half-life

The biodegradation half-life is the time necessary for half of the chemical to degrade. The biodegradation rate of an organic chemical is generally dependent on the presence and population size of soil microorganisms that are capable of degrading the chemical.

6.1.3 Inorganic Chemicals

Inorganic chemicals detected in soil samples are associated with both the aqueous phase and with leachable metal ions on soil particles. The transport of this material from unsaturated soil to the underlying groundwater is controlled by the physical processes of precipitation, percolation, chemical interaction with the soil, and downward transport of metal ions by continued percolation. The chemistry of inorganic interaction with percolating precipitation and varying soil conditions is complex and includes numerous chemical transformations that may result in altered oxidation states, ion exchange, adsorption, precipitation, or complexation. The chemical reactions, which are affected by environmental conditions including pH, oxidation/reduction conditions, and the type and amount of organic matter, clay, and the presence of hydrous oxides, may act to enhance or reduce the mobility and toxicity of the metal ions. In general, these reactions are reversible and add to the variability commonly observed in distributions of inorganic chemicals in soil.

The chemical form of an inorganic chemical determines its solubility and mobility in the environment; however, chemical speciation is complex and difficult to delineate in routine laboratory analysis. Inorganic chemicals in soil are commonly found in several forms, including dissolved concentrations in soil pore water, metal ions occupying exchange sites on inorganic soil chemicals (adsorbed to inorganic soil chemicals), metal ions associated with insoluble organic matter, precipitated inorganic chemicals as pure or mixed solids, and metal ions present in the structure of primary or secondary minerals.

The dissolved (aqueous) fraction and its equilibrium sorbed fraction are of primary importance when considering the migration potential of inorganic chemicals through soil. Of the inorganic chemicals that are likely to form, chlorides, nitrates, and nitrites are commonly the most soluble. Sulfate, carbonate, and hydroxides generally have low to moderate solubility. Soluble chemicals are transported in aqueous form subject to attenuation, whereas less soluble chemicals remain as a precipitate and limit the overall dissolution of the metal ions. The solubility of the metal ions is also regulated by ambient chemical conditions, including pH and oxidation/reduction.

The attenuation of metal ions in the environment can be estimated numerically using the retardation factor (R), dispersion in higher flow systems (high conductivity environments), and diffusion in low conductivity environments. R defines the extent to which the velocity of the contaminant is slowed which is largely derived from the soil/water partitioning coefficient (K_d). The retardation factor is calculated using the following equation:

$$R = 1 + (K_d \rho_b)/\theta_w \qquad \text{(Equation 6-2)}$$

Where:

ρ_b = the soil bulk dry density (g/cm^3)

θ_w = soil moisture content (dimensionless)

Metal ion concentrations in the environment do not attenuate by natural or biological degradation because of low volatility and solubility of the ions. Inorganic chemicals may be biotransformed or bioconcentrated through microbial activity.

6.1.4 Organic Chemicals

Organic chemicals, such as SVOCs or VOCs, detected in soil may be transformed or degraded in the environment by various processes, including hydrolysis, oxidation/reduction, photolysis, volatilization, biodegradation, or biotransformation. The half-life of organic chemicals in the transport media can vary from minutes to years, depending on environmental conditions and the chemical structures of the chemicals. Some types of organic chemicals are very stable, and degradation rates can be very slow. Organic degradation may either enhance (through the production of more toxic byproducts) or reduce (through concentration reduction) the toxicity of a chemical in the environment.

6.2 CONCEPTUAL MODEL FOR FATE AND TRANSPORT

The CSM, which defines the framework for fate and transport modeling, describes conditions at Anchor Test Area including the contaminant sources, surficial and subsurface hydrogeologic conditions, contaminant migration and pathways, and the contaminant release mechanisms.

AOC conditions described in Sections 2.0 through 5.0 include contaminant source information, the surrounding geologic and hydrologic conditions, and the magnitude of SRCs and their current spatial distribution. Information from the preliminary CSM presented in Section 3.7 and the nature and extent evaluation in Section 5.0 were used to develop the CSM for fate and transport modeling by identifying SRCs and migration pathways. The CSM is based on information and data collected for historical investigations, this RI report and informed assumptions about the AOC. Assumptions contained in the CSM are reiterated throughout this section. The better the information and the greater the accuracy of the assumptions, the more accurately the CSM describes the AOC and, therefore, the more reliable the fate and transport modeling predictions can be. A summary of the salient elements of the CSM that apply to fate and transport modeling are summarized below.

6.2.1 Contaminant Sources

No primary contaminant sources are located at the AOC. Secondary sources (contaminated media) identified in previous investigations and further characterized during the PBA08 RI are described below.

6.2.2 Hydrogeology

A description of the regional and AOC specific geology and hydrology are provided in Section 3.0 and summarized below.

- The topography at Anchor Test Area is relatively flat and slopes slightly to the south and west. Elevations across the AOC vary from approximately 998 to 1004 ft amsl. The AOC is heavily vegetated with mature trees and underbrush (Figure 3-1).

- Soil beneath the AOC consists of silty sands overlain by silt-rich clay observed in subsurface borings installed during the PBA08 RI (Appendix A). Soil across the AOC is moderately permeable, and well drained. No surface water is located at the AOC.

- No groundwater monitoring wells are installed in at the AOC, so only regional hydraulic gradients and flow directions are available as presented in Figures 3-4 and 3-5, respectively. Groundwater was encountered at 8.7-13 ft bgs in PBA08 RI borings, so an average depth of 10 ft bgs is used for modeling.

- Contaminant leaching pathways from soil to the water table are typically through preferential flow paths created from the interbedded sands scattered throughout the smaller-grained unconsolidated soil.

6.2.3 Contaminant Release Mechanisms and Migration Pathways

Based on the information presented above, the following contaminant release mechanisms and migration pathways have been identified at the AOC:

- Contaminant leaching from soil to the water table (vertical migration) and lateral transport to a downgradient receptor;

- Contaminated sediment transported to potential downstream receptors; and

- Contaminated surface water migrating as overland flow to potential downstream receptors.

The first of these, which considers a primary groundwater transport pathway, is treated explicitly in this fate and transport section. Sediment transport and surface water transport pathways are evaluated in the ERA presented in Section 7.3.

One of the principal migration pathways at the AOC is percolation through the unsaturated soil to the water table (i.e., vertical leaching of contaminants from soil into groundwater). However, because of the very heterogeneous nature of the unconsolidated glacial material, groundwater flow patterns within the unconsolidated soil are difficult to predict. Precipitation that does not leave the AOC as surface runoff percolates into the subsurface. Some of the percolating water leaves this environment via evapotranspiration after little or no vertical migration. The remainder of the water percolates into the water table. As discussed in Section 6.2.4, the rate of percolation is controlled by soil cover, ground slope, saturated conductivity of the soil, and meteorological conditions. Figure 6-1 illustrates the contaminant migration conceptual model.

Once the contaminant leachate percolates through the soil and reaches the water table, it migrates with the local groundwater and discharges at the downgradient streams. Groundwater flow likely occurs along preferential pathways (e.g., sand seams, channel deposits, or other stratigraphic discontinuities) having higher permeabilities. For the inorganic chemicals, lateral migration through groundwater will be very limited due to their high retardation by the bedrock material (USACE 2002).

Additional factors that affect the leaching rate include a chemical's solubility, sorption capacity (expressed by the K_d), and the amount of percolation. Insoluble chemicals will precipitate out of solution in the subsurface, or remain in insoluble forms with little leaching.

Another factor that affects whether a chemical will reach the water table through percolation of precipitation is the chemical's rate of decay. Most of the organic chemicals decay at characteristic

rates that are proportional to the chemical's half-life. For a given percolation rate, those chemicals with long half-lives have a greater potential for contaminating groundwater than do those with shorter half-lives. For this analysis, the rate of decay/half-life was not considered.

Contaminant releases through gaseous emissions and airborne particulates are not significant at Anchor Test Area. The AOC is vegetated, located in a humid temperate climate, and soil moisture content is typically high, which prevents dust borne contaminant migration. Therefore, there is likely little to no gaseous emission, and contaminant levels in the air pathway are minor to nonexistent.

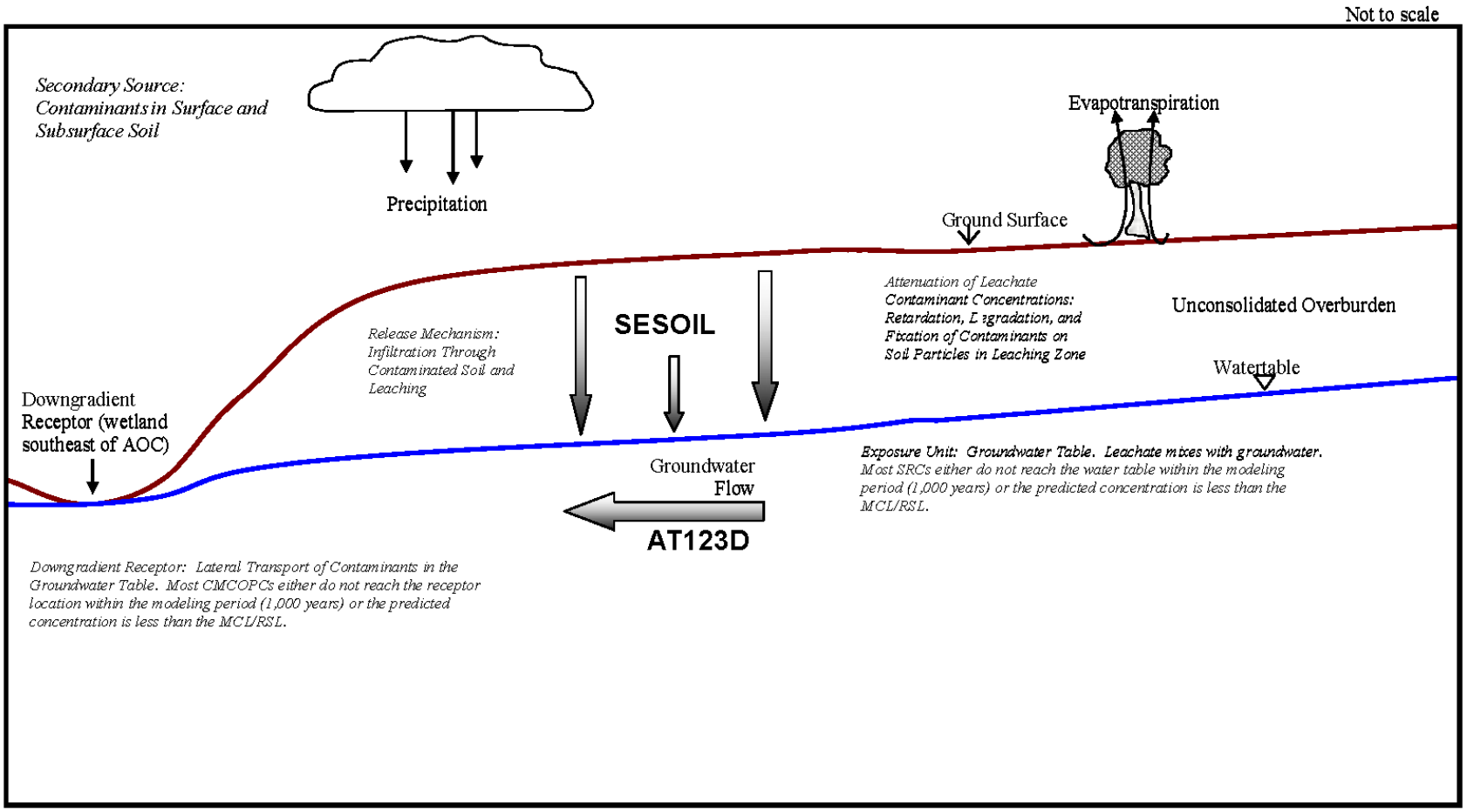

Figure 6-1. Contaminant Migration Conceptual Model

6.2.4 Water Budget

The potential for contaminant transport begins with precipitation. Percolation is the driving mechanism for leaching of soil contaminants to groundwater. The actual amount of rainwater available for flow and percolation to groundwater is highly variable and dependent upon soil type and climatic conditions. A water balance calculation can be used as a tool to quantitatively account for all the components of the hydrologic cycle. The quantified elements of the water balance are used for inputs to the soil leaching and groundwater transport models discussed later. The components of a simple steady-state water balance model include precipitation (P), evapotranspiration (ET), surface runoff (Sr), and groundwater recharge or percolation (q). These terms are defined as follows:

$$P = ET + Sr + q \qquad \text{(Equation 6-3)}$$

or

$$\text{Rainwater available for flow} = Sr + q = P - ET \qquad \text{(Equation 6-4)}$$

It is expected that loss of runoff also occurs in the form of evaporation. The remaining water after runoff and evaporation is available for percolation, which includes loss to the atmosphere by evapotranspiration. The water balance estimations were developed using the Hydrologic Evaluation of Landfill Performance (HELP) model (USEPA 1994). See Table E-3 in Appendix E for parameters used in the HELP model to develop the water budget estimates used in the evaluation. Calculations using precipitation and temperature data for a 100-year period were generated synthetically using coefficients for Cleveland, Ohio.

The annual average water balance estimates indicate an evapotranspiration of 28% (10.3 inches) of total precipitation (37 inches). The remaining 72% (27 inches) of rainwater is available for surface water runoff and percolation to groundwater. Of the 27 inches of water available for runoff or percolation, groundwater recharge (percolation) accounts for 13% (3.6 inches), and surface runoff (along topography to nearest surface water bodies) accounts for the remaining 87% (23.4 inches).

6.3 SOIL SCREENING ANALYSIS

Soil screening analyses are screening evaluations performed to identify SRCs with the potential to leach to groundwater as CMCOPCs. The soil leachability analysis is a five step screening process. Steps include:

1. Identify SRCs for sample aggregates of interest (presented in Section 5.0);

2. Compare the maximum concentration of SRCs with generic soil screening levels (GSSLs) to develop initial CMCOPCs;

3. Compare the maximum concentration of initial CMCOPCs with site-specific soil screening levels (SSSLs) [GSSL multiplied by the site-specific dilution attenuation factor (DAF)] to refine the initial CMCOPCs;

4. Screen the initial CMCOPCs with a travel time leaching analysis of 1,000 years; and

5. Evaluate CMCOPCs using fate and transport models to develop CMCOCs.

The CMCOCs are defined as the chemicals with potential to leach to groundwater and migrate to downgradient receptor locations at a concentration exceeding the FWCUGs for the AOC-specific receptors, facility-wide background concentrations, and maximum contaminant level/regional screening level (MCL/RSL). If a predicted chemical concentration is lower than at least one of these three screening goals, either below the source or at the downgradient receptors, the chemical is not a CMCOC.

6.3.1 Soil Screening Analysis

The first step of the soil screening analysis is the development of SRCs, as presented Section 5.0 and summarized in Section 6.1.

The second step of the screening process involves comparing the maximum concentrations of the SRCs identified in Section 5.0 with MCL-based GSSLs. The GSSLs were developed for Superfund sites for contaminant migration to groundwater (USEPA 1996b, USEPA 2010a). The GSSL is defined as the concentration of a chemical in soil that represents a level of contamination below which there is no concern for impacts to groundwater under CERCLA, provided conditions associated with soil screening levels (SSLs) are met. Generally, if chemical concentrations in soil fall below the GSSL, and there are no groundwater receptors of concern or anticipated exposures, then no further study or action is warranted for that area. If the GSSL for a chemical is not available, the USEPA risk-based (USEPA 2010a) SSL for soil for groundwater migration is used. If neither the USEPA GSSL nor the USEPA risk-based SSL for a chemical is available, then no further evaluation of the chemical is performed and it is eliminated from the list of the initial CMCOPCs.

The initial CMCOPC screen, as presented in Table E-4 in Appendix E, eliminates six inorganic chemicals and five organic chemicals from further consideration. Five inorganic chemicals (arsenic, barium, cobalt, manganese, and thallium) and one organic chemical (naphthalene) exceeded their GSSLs and are carried forward to the next screening step.

The third step of the soil screening process involves comparing the maximum chemical concentrations with the SSSLs. The SSSL is defined as the GSSL multiplied by the AOC-specific DAF. In the derivation of the GSSLs, direct partitioning is used, assuming groundwater is in contact with the chemicals in soil and the groundwater concentration is equal to the leachate concentration. However, as leachate moves through soil, chemical concentrations are attenuated by adsorption and degradation. When the leachate reaches the water table, dilution by groundwater further reduces leachate concentrations. This reduction in concentration can be expressed by a DAF. The DAFs can vary based on AOC-specific characteristics (e.g., hydrogeologic properties, contaminated source area, depth to contamination). As described in the *Soil Screening Guidance: Technical Background Document* (USEPA 1996b), contaminant dilution in groundwater is estimated at each AOC from an AOC-specific DAF. The DAF, which is defined as the ratio of soil leachate concentration to receptor point concentration, is minimally equal to 1. Dilution in groundwater is derived from a simple

mixing zone equation (Equation 6-5), and relies upon estimation of the mixing zone depth (Equation 6-6).

$$DAF = 1 + \frac{(K \times i \times d)}{(q \times L)} \qquad \text{(Equation 6-5)}$$

Where:

DAF = dilution attenuation factor
K = aquifer hydraulic conductivity (m/yr)
i = horizontal hydraulic gradient (m/m)
q = percolation rate (m/yr)
L = source length parallel to groundwater flow (m)
d = mixing zone depth (m) (which is defined below)

$$d = \sqrt{0.0112 \times L^2} + d_a \times \left[1 - \exp\left(\frac{-L \times q}{K \times i \times d_a}\right)\right] \qquad \text{(Equation 6-6)}$$

Where:

d_a = aquifer thickness (m)
$d \leq d_a$

As stated above, if the aquifer thickness is less than the calculated mixing zone depth, then the aquifer thickness is used for "d" in the DAF calculation. The DAF calculation is presented in Table E-5 in Appendix E. It should be noted that the purpose of this screen is not to identify the chemicals that may pose risk at downgradient locations but to target those chemicals that may pose the greatest problem if they migrate from the AOC.

Based on this screening and an AOC-specific DAF of 2.60, only those chemicals that exceeded their published or calculated GSSL multiplied by the DAF were identified as the initial CMCOPCs, based on leaching to groundwater. These initial CMCOPCs, presented in Table E-6 in Appendix E, include three inorganic chemicals (arsenic, cobalt, manganese) and one organic chemical (naphthalene).

The fourth step of the soil screening process involves eliminating from further consideration those initial CMCOPCs identified in the SSSL evaluation which require more than 1,000 years to leach through the unsaturated zone before reaching the water table. The time period of 1,000 years was conservatively selected to evaluate eventual migration of the contaminant front to the water table despite uncertainties in vadose zone hydraulic parameters and groundwater recharge over time. Additionally, USACE (2002) suggests a screening value of 1,000 years be used due to the high uncertainty associated with predicting conditions beyond that time frame. Therefore, the initial CMCOPCs at the selected sources were screened against a travel time of greater than 1,000 years. The travel time in this screen is the time required for a CMCOPC to migrate vertically from the base of the soil interval detected above background concentrations to the water table. This distance is the leaching zone (Lz) evaluated in Table E-7 in Appendix E. The estimated travel time for each initial CMCOPC to reach the water table is determined using the following equations:

$$T = \frac{Lz \times R}{V_p} \qquad \text{(Equation 6-7)}$$

Where:

T = leachate travel time (year)
Lz = thickness of attenuation zone (ft)
R = retardation factor (dimensionless) (Equation 6-2)
V_p = pore water velocity (ft/year)

and

$$V_p = \frac{q}{\theta_w} \qquad \text{(Equation 6-8)}$$

Where:

q = percolation rate (ft/year)
θ_w = fraction of total porosity that is filled by water

If the travel time for a chemical from a source area exceeded 1,000 years, then the chemical was eliminated from the list of initial CMCOPCs. Initial CMCOPCs with travel times less than 1,000 years are retained for further evaluation (Appendix E, Table E-7). The chemicals selected for further evaluation with Seasonal Soil Compartment (SESOIL) modeling are listed in Table 6-1. These include one inorganic chemical (arsenic) and one organic chemical (naphthalene). Cobalt and manganese were eliminated from the list of initial CMCOPCs based on their travel times exceeding 1,000 years.

In the fifth step, the initial CMCOPCs were further evaluated using fate and transport models provided in Section 6.4.

Table 6-1. Initial CMCOPCs Identified from Soil Screening Analysis

Analyte	Maximum Concentrations (mg/kg)	ISM Sample Location	Sample Depth (ft bgs)	Leachate Modeling Required? (Yes/No)
Inorganic chemicals				
Arsenic	5.40E+01	ATAss-005M	1.0-7.0	Yes
Semi-volatile Organic Compounds				
Naphthalene	1.20E-02	ATAss-015M	0.0-1.0	Yes

bgs = below ground surface
CMCOPC = Contaminant Migration Chemical of Potential Concern
ISM = Incremental Sampling Method

6.3.2 Limitations and Assumptions of Soil Screening Analysis

It is important to recognize that acceptable soil concentrations for individual chemicals are highly AOC-specific. The GSSLs used in this screening are based on a number of default assumptions

chosen to be protective of human health for most AOC conditions (USEPA 1996b). These GSSLs are expected to be more conservative than SSSLs based on AOC conditions. The conservative assumptions included in this analysis are: (1) no adsorption in the unsaturated zone or in the aquifer; (2) no biological or chemical degradation in the soil or in the aquifer; and (3) contamination is uniformly distributed throughout the source. However, the GSSL does not incorporate the existence of contamination already present within the aquifer.

6.4 FATE AND TRANSPORT MODELING

Contaminant fate and transport modeling is performed for initial CMCOPCs based on the conceptual model for the AOC, as discussed in Section 6.2. SESOIL modeling was performed for chemicals identified as the initial CMCOPCs from the soil screening analyses presented in Section 6.3 and summarized in Table 6-1. The SESOIL modeling was performed to predict concentrations of chemicals in the leachate immediately beneath the selected source areas and just above the water table. If the predicted leachate concentration of a CMCOPC exceeded its MCL/RSL, facility-wide background concentrations, and FWCUGs for AOC receptors, the Analytical Transient 1-,2-,3-Dimensional (AT123D) model was performed to predict the groundwater concentrations directly beneath the source and downgradient at designated receptor locations. The downgradient receptor location is the closest surface water body feature downgradient of the source areas that is connected to the groundwater.

6.4.1 Modeling Approach

Contaminant transport includes the movement of water and dissolved material from the source areas to groundwater. This occurs as rainwater infiltrates from the surface and percolates through the area of contamination, its surrounding soil, and into the saturated zone. The downward movement of water driven by gravitational potential, capillary pressure, and other components of total fluid potential, mobilizes the contaminants and carries them through the soil into the mixing zone with the water table. Lateral transport within the unconsolidated zone is controlled by the groundwater gradient. Vertical transport (evaluated with the SESOIL model) through the overburden to the water table, and horizontal transport (evaluated with the AT123D model) through the unconsolidated zone to downgradient receptor locations are illustrated in Figure 6-1.

The output of the contaminant fate and transport modeling is presented as the expected maximum concentration of modeled contaminants at the selected receptor locations. For SESOIL, the receptor location is the groundwater table beneath the source area. For this analysis, two ISM sampling areas were considered as sources of contamination based on the results of the soil screening analysis. A separate SESOIL analysis was performed for each initial CMCOPC listed in Table 6-1 and presented on Figure 6-2.

The predicted maximum leachate concentration just above the water table, observed in the SESOIL results, was compared against FWCUGs for the AOC-specific receptors, facility-wide background concentrations, and MCL/RSL. If the predicted maximum leachate concentration of an initial CMCOPC was higher than the FWCUGs, facility-wide background concentrations, and MCL/RSL, the

CMCOPC was further evaluated using the AT123D model to predict future maximum concentrations in groundwater beneath the source, as well as at the receptor locations if applicable. If a predicted maximum leachate concentration was lower than at least one of these three screening goals, the chemical was no longer considered a CMCOPC. The predicted maximum concentration in groundwater directly below the source areas and at the receptor locations, observed in the AT123D results, was compared against the FWCUGs, facility-wide background concentrations, and MCL/RSL. If the predicted maximum concentration of a CMCOPC was higher than the FWCUGs, facility-wide background concentrations, and MCL/RSL, the chemical would be retained as a CMCOC. If a predicted maximum concentration in groundwater directly below the source areas and at the receptor location is lower than at least one of these three screening goals, the chemical is not a CMCOC.

6.4.2 Model Applications

The SESOIL model (GSC 1998) used for leachate modeling, when applicable, estimates pollutant concentrations in the soil profile following introduction via direct application and/or interaction with transport media. The AT123D model (DOE 1992) is an analytical groundwater pollutant fate and transport model. It computes the spatial-temporal concentration distribution of waste in the aquifer system and predicts the transient spread of a contaminant plume through a groundwater aquifer. The application of both of these models is discussed in the following subsections.

6.4.2.1 SESOIL Modeling

The SESOIL model defines the soil column as compartments extending from the ground surface through the unsaturated zone and to the upper level of the saturated soil zone or top of bedrock. Processes simulated in SESOIL are categorized in three cycles: hydrologic cycle, sedimentation cycle, and pollutant cycle. Each cycle is a separate submodule in the SESOIL code. The hydrologic cycle includes rainfall, surface runoff, percolation, soil-water content, evapotranspiration, and groundwater recharge. The sediment washload cycle includes erosion and sediment transport. The pollutant cycle includes convective transport, volatilization, adsorption/desorption, and degradation/decay. A contaminant in SESOIL can partition in up to four phases (liquid, adsorbed, air, and pure).

Data requirements for SESOIL are not extensive and utilize a minimum of site-specific soil and chemical parameters and monthly or seasonal meteorological values as input. Output of the SESOIL model include pollutant concentrations at various soil depths and pollutant loss from the unsaturated soil zone in terms of surface runoff, percolation to groundwater, volatilization, and degradation. The mathematical representations in SESOIL generally consider the rate at which the modeled processes occur, the interaction of different processes with each other, and the initial conditions of both the waste area and the surrounding subsurface matrix material.

The input data for SESOIL can be grouped into four types: climatic data, chemical data, soil data, and application data. There are a total of 61 separate parameters contained in these four data groups. Wherever possible, AOC-specific parameter values were used for the modeling. Certain parameters,

however, were not available for the source areas, and were estimated based on pertinent scientific literature, geochemical investigations, and checks for consistency between model results and historical data. Conservative estimates were used when a range of values existed or parameter values were not available.

6.4.2.2 Climate Data

The climatic data file of SESOIL consists of an array of mean monthly temperature, mean monthly cloud cover fraction, average monthly relative humidity, reflectivity of the earth's surface (i.e., shortwave albedo), average daily evapotranspiration, monthly precipitation, mean number of storm events per month, mean duration of rainfall, and mean length of rainy season. The climatic data are presented in Table E-8 of Appendix E. This data was taken from the Youngstown Weather Service Office Air Port, Ohio, weather station as it was determined to be most appropriate, corresponding to the latitude and the longitude at RVAAP.

Climate data from Youngstown were used for the vertical transport analysis because the SESOIL model had coefficients for Youngstown stored within the SESOIL program. Climate data from Cleveland were used for the soil screening analysis because the HELP model had coefficients for Cleveland stored within the HELP program. Both programs produced virtually the same recharge rate (9.40 cm/yr for Cleveland and 9.42 cm/yr for Youngstown) for each location. Therefore, since the recharge rate was similar in both situations, the weather data stored within each program were used.

6.4.2.3 Chemical Data

The pollutant fate cycle of SESOIL focuses on the various chemical transport and transformation processes that may occur in the soil zone. These processes include volatilization/diffusion, adsorption/desorption, cation exchange, biodegradation and hydrolysis, and metal complexation. The chemical-specific parameters are presented in Appendix E (Table E-9). The distribution coefficients (K_ds) for inorganic chemicals were obtained from *Soil Screening Guidance: Technical Background Document* (USEPA 1996b) assuming a neutral pH of 7, unless stated otherwise. The K_ds for organic chemicals were estimated from organic carbon-based water partition coefficients (K_{oc}) using the relationship
$K_d = (f_{oc})(K_{oc})$, where f_{oc} = soil organic carbon content is the mass fraction obtained from AOC-specific measurements, and K_{oc} values were obtained from *Soil Screening Guidance: Technical Background Document* (USEPA 1996b), unless otherwise stated. In general, biodegradation rates are not applicable for inorganic CMCOPCs and biodegradation was not considered for the organic chemicals in this evaluation.

6.4.2.4 Soil Data

The soil data file of SESOIL contains input parameters describing the physical characteristics of the subsurface soil, and is presented in Table 6-2. The parameters include soil bulk density, intrinsic

permeability, soil disconnectedness index, soil porosity, organic carbon content, and cation exchange capacity. Site-specific data were used from geotechnical samples collected at the AOC during the PBA08 RI (Appendix Table D-11). There is, however, no measurement method for the soil disconnectedness index or a measured value of the Freundlich exponent. Soil disconnectedness index is a parameter that relates the soil permeability to the moisture content. Thus, SESOIL default values were used for these two parameters.

An average intrinsic permeability for the vadose zone representing the unconsolidated zone above the water table was calibrated using the percolation rate of 9.42 cm/year (3.6 inches/year) as the calibration target. The model was calibrated against the percolation rate by varying the intrinsic permeability and by keeping all other AOC-specific geotechnical parameters fixed. The final hydrogeologic parameter values used in this modeling are shown in Table 6-2. The soil porosity was set to the AOC-specific value. The intrinsic permeability, calibrated in SESOIL to the percolation rate (determined from a water balance estimated in HELP), was found to match the AOC-specific measurements from geotechnical samples.

Soil disconnectedness index replaces the moisture retention curves (or characteristic curves) used by other unsaturated zone leaching models. SESOIL User's Guide (Hetrick and Scott 1993) defines this parameter to be the exponent relating the “wetting” and “drying” time-dependent permeability of soil to its saturated permeability. This “one variable” approach of using soil disconnectedness index in SESOIL simplifies the data estimation process and reduces computational time. In addition, this parameter was calibrated for four different soil types ranging from sandy loam to clay (Hetrick et al. 1986) and calibrated values fell within the default range specified in the SESOIL User's Guide.

Table 6-2. Unit-Specific Parameters Used in SESOIL and AT123D Modeling

Parameters	Symbol	Units	Value	Source for Value
SESOIL				
Percolation Rate (Recharge Rate)	q	m/yr	9.42E-02	0.1 * SESOIL Precipitation for Youngstown, Ohio
Horizontal Area of Aggregate	A_p	sq. cm	EU-specific	Based on average area for all ISM areas for Building F-15 and Building F-16
Intrinsic Permeability - clayey sand	p	cm^2	1.05E-10	Calibrated from SESOIL model
Disconnectedness Index	c	unitless	11	Calibrated from SESOIL model
Freundlich Equation Exponent	n	unitless	1	SESOIL default
Fraction Organic Carbon	f_{oc}	unitless	8.40E-04	Average from the PBA08 RI geotechnical samples ATASB-007-5131-SO and ATASB-007-5132-SO
Bulk Density	ρb	kg/L	1.61	
Moisture Content	w	wt %	17	
Water-filled Soil Porosity	θw	unitless	0.274	
Air-filled Soil Porosity	θa	unitless	0.134	
Porosity - total	n_T	unitless	0.408	
Vadose Zone Thickness	Vz	m	3.0	Based on average ground surface elevation and depth to water table from facility-wide groundwater map (USACE 2010a)
Leaching Zone Thickness	Lz	m	1.0 to 2.7	Based on vadose zone thickness and results for CMCOPCs in soil
AT123D				
Aquifer Thickness	h	m	6	Facility-wide assumption for the unconsolidated aquifer presented the Load Line 1 investigation (USACE 2003a)
Hydraulic Conductivity in Saturated Zone	K_S	cm/s	4.15E-04	Geometric mean from RVAAP range in MKM (2007)
Hydraulic Gradient in Saturated Zone	i	unitless	5.00E-03	Based on Facility-wide Groundwater Map (USACE 2010a)
Effective porosity	n_e	unitless	0.2	Assumed for sandstone (USEPA 1985)
Dispersivity, longitudinal	α_L	m	30	Assumed
Dispersivity, transverse	α_T	m	3	0.1 α_L
Dispersivity, vertical	α_V	m	0.3	0.01 α_L
Retardation factor	R	unitless	chemical-specific	Presented in the Table E-7 in Appendix E

MKM (MKM Engineers, Inc.) 2007. *Characterization of 14 AOCs at Ravenna Army Ammunition Plant.* March 2007.
United States Army Corps of Engineers (USACE)2003a. *Phase II Remedial Investigation Report for the Load Line 1 at the Ravenna Army Ammunition Plant, Ravenna, Ohio*. June 2003.
USACE 2010a. *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (March 2010)
United States Environmental Protection Agency (USEPA) 1985. *Water Quality Assessment: A Screening Procedure for Toxic and Conventional Pollutants in Surface and Ground Water, Revised 1985 Parts 1 and 2, EPA/600/6-85/002.* September 1985.
AT123D = Analytical Transient 1-,2-,3-Dimensional model
CMCOPC = Contaminant Migration Chemical of Potential Concern
SESOIL = Seasonal Soil Compartment model
ISM = Incremental Sampling Method
PBA08 RI = Performance Based Acquisition 2008 Remedial Investigation

6.4.2.5 Source Terms

Analytical data from surface and subsurface soil collected at the AOC were used as the source term for SESOIL modeling. All the samples at different depth intervals were compiled to provide a detailed loading option for the SESOIL model. The samples with the maximum soil concentration for each CMCOPC listed in Table 6-1 were used as source term concentrations for the SESOIL model.

6.4.2.6 Application Data

Two different layering schemes (one for arsenic and one for naphthalene) were developed for sample areas due to varying thicknesses of the loading and leaching zones based on the depth of soil sample concentration and elevation of the water table. Each model consisted of four layers of equal thicknesses. The top two layers for the arsenic model constituted the loading zone, whereas only the top layer for the naphthalene model constituted the loading zone. Layers 3 and 4 for each model served as leaching zones. The vadose zone for both models was 10 ft thick. Layer 4 served as a leaching zone in each model. Layer 4 was included just above the water table to read output results at the water table/vadose zone interface. Details of the model layers utilized in this modeling are presented in Table E-10 in Appendix E.

6.4.3 SESOIL Modeling Results

SESOIL modeling was performed for initial CMCOPCs (arsenic and naphthalene) that have the potential to reach the water table within 1,000 years based on the soil screening analysis results (Table 6-1). Table 6-3 presents the predicted peak leachate concentrations beneath the source areas relative to the sample area locations, and the corresponding time of the peak leachate concentrations. The FWCUGs, facility-wide background concentrations, and MCL/RSL values for the CMCOPCs are also shown in this table for comparison purposes. The maximum concentration of arsenic in the leachate below the source and just above the water table exceeded its screening criteria. Therefore, arsenic was selected as a final CMCOPC for AT123D modeling. Naphthalene was excluded as a final CMCOPC for further evaluation based on the results of the SESOIL modeling. Figures E-1 and E-2 in Appendix E show the leachate mass flux versus time plots generated by SESOIL. The detailed input and output files of the SESOIL modeling are provided on a CD ROM included in Attachment 1 of Appendix E.

Table 6-3. Summary of SESOIL Modeling Results

Initial CMCOPC	Maximum Soil Concentration (mg/kg)	ISM Sample Area	Maximum Depth of Contamination (ft bgs)	Depth to Groundwater (ft bgs)	Predicted $C_{leachate, max}$ Beneath the Source (mg/L)	Time Required to Reach $C_{leachate, max}$ (years)	MCL/RSL (mg/L)	FWCUG (mg/L)[a]		Facility-Wide Background Unconsolidated Groundwater (mg/L)	Final CMCOPC?[b] (Yes/No)
								National Guard Trainee	Resident Farmer Adult		
Inorganic chemicals											
Arsenic	**5.40E+01**	**ATAss-005M**	**7.0**	**10.0**	**9.53E-01**	**560**	**1.00E-02**	**6.08E-04**	**5.60E-05**	**1.17E-02**	**Yes**
Semi-volatile Organic Compounds											
Naphthalene	1.20E-02	ATAss-015M	1.0	10.0	1.84E-03	32	6.20E-03	None	None	None	No

[a]The FWCUG is based on a target risk of 10^{-6} and a Hazard Index of 0.1.
[b]The Final CMCOPC was identified comparing predicted maximum leachate concentration to MCL/RSL, FWCUGs, and facility-wide background concentration. A chemical is a CMCOPC if its predicted leachate concentration exceeds its MCL/RSL within 1,000 years.
bgs = below ground surface
CMCOPC=Contaminant Migration Chemical of Potential Concern
FWCUG=Facility-Wide Cleanup Goal
ISM = Incremental Sampling Method
MCL=Maximum Contaminant Level
RSL= Regional Screening Level
SESOIL = Seasonal Soil Compartment model
Bold = CMCOPCs exceeding MCL/RSL, FWCUGs, and facility-wide background concentration

6.4.4 AT123D Modeling in the Saturated Zone

The fate and transport processes accounted for in the AT123D model include advection, dispersion, adsorption/retardation, and decay. This model can be used as a tool for estimating the dissolved concentration of a chemical in three dimensions in the groundwater resulting from a mass release over a source area (point, line, area, or volume source). The model can handle instantaneous, as well as continuous, source loadings of CMCOPC concentrations. AT123D is frequently used by the scientific and technical community to perform quick and conservative estimates of groundwater plume movement in space and time. SESOIL and AT123D are linked in a software package (RISKPRO) so that mass loading to the groundwater predicted by SESOIL can be directly transferred to AT123D. Therefore, AT123D was chosen to predict the maximum concentration of contaminants in groundwater after mixing with the leachate and the future concentrations for the contaminants in groundwater at the receptor locations.

The hydrogeologic parameter values used in this modeling are shown in Table 6-2. Most of the parameters presented in this table are AOC-specific values, unless otherwise indicated in the table. The chemical-specific parameters are presented in Appendix E (Tables E-1 and E-11). A discussion of model assumptions and limitations is presented in Section 6.4.6.

Arsenic was identified as a final CMCOPC based on SESOIL results where the leachate concentration exceeded its screening criteria within the AOC. Figure 6-3 presents the location of the soil sample where the final CMCOPC exists. Figure E-3 in Appendix E shows the predicted concentration versus time curves based on AT123D for arsenic. The detailed input and output of AT123D modeling is provided on a CD ROM included in Attachment 2 of Appendix E.

6.4.5 AT123D Modeling Results

AT123D modeling was performed for the final CMCOPC (arsenic) using contaminant loading results from SESOIL. Results of AT123D modeling are shown in Table 6-4 as the predicted groundwater concentration beneath the source area and at the selected downgradient receptor location (i.e., wetland area southeast of the AOC). Groundwater monitoring wells were not installed at the AOC, so observed groundwater concentrations could not be included in Table 6-4. The distance to the downgradient receptor was based on the distance along groundwater flow direction to the closest surface water body from the ISM sample location. The downgradient distance from the source area to the wetland area southeast of the AOC was approximately 200 ft.

The maximum predicted concentration of arsenic was predicted to exceed the screening criteria beneath the source area and was modeled to the downgradient receptor (wetland area southeast of the AOC). The maximum predicted concentration of arsenic modeled at the downgradient receptor location did not exceed the screening criteria and was eliminated as a CMCOC. Based on the fate and transport evaluation, all SRCs identified in the surface soil and subsurface soil sample aggregates are eliminated as posing future impacts to groundwater.

Table 6-4. Summary of AT123D Modeling Results

Final CMCOPC	Maximum Leachate Concentration[a] (mg/L)	Maximum Groundwater Concentrations[b] (C_{MAX}) at the Source (mg/L)	Maximum Groundwater Concentrations[b] (C_{MAX}) at the Downgradient Receptor (mg/L)	Distance to Downgradient Receptor (ft)	MCL/RSL (mg/L)	FWCUG (mg/L)[c]		Facility-Wide Background Unconsolidated Groundwater (mg/L)	Final CMCOC?[d] (Yes/No)
						National Guard Trainee	Resident Farmer		
Inorganic chemicals									
Arsenic	9.53E-01	4.73E-02	5.87E-04	200	1.00E-02	6.08E-04	5.60E-05	1.17E-02	No

[a]Represents SESOIL predicted maximum leachate concentration just above the water table
[b]The receptor concentration was estimated using the results from SESOIL and applying AT123D model
[c]The FWCUG is based on a target risk of 10^{-6} and a Hazard Index of 0.1
[d]The CMCOC was identified comparing predicted concentration in groundwater to MCL/RSL, FWCUGs, and facility-wide background concentration. A chemical is a CMCOC if its predicted concentration in groundwater exceeds all its screening criteria within 1,000 years
AT123D = Analytical Transient 1-, 2-, 3- Dimensional
CMCOC = Contaminant Migration Chemical of Concern
CMCOPC = Contaminant Migration Chemical of Potential Concern
FWCUG = Facility-Wide Cleanup Goal
MCL = Maximum Contaminant Level
ND = Not detected
RSL = Regional Screening Level
SESOIL = Seasonal Soil Compartment

6.4.6 Limitations/Assumptions

In general, a conservative modeling approach was used, which may overestimate the contaminant concentration in the leachate for migration from observed soil concentrations. Listed below are important assumptions used in this analysis.

- The use of K_d and R_d to describe the reaction term of the transport equation assumes that an equilibrium relationship exists between the solid- and solution-phase concentrations, and that the relationship is linear and reversible.

- Since AOC-specific data are not available, the K_d values and K_{oc} values used in this analysis for all the CMCOPCs represent literature or calculated values, and may not represent conditions at the AOC.

- The K_d for inorganic chemicals used here assumed a neutral pH of 7. The K_d for inorganic chemicals varies with pH; therefore, if AOC-specific pH measurements are greater than 7, the K_d and calculated screening parameters (such as the retardation factor) will deviate from those presented here.

- Flow and transport in the vadose zone is one-dimensional (i.e., only in the vertical direction).

- This modeling used the current soil concentrations that were collected approximately 65 years after historical operations were terminated at the AOC. Therefore it does not account for chemicals that have already leached to groundwater.

- Flow and transport are not affected by density variations.

- A realistic distribution of soil contamination is not considered. The maximum concentration value was used as the source term concentrations for SESOIL model layers, a highly conservative assumption that is expected to produce higher leachate concentrations for the CMCOPCs than the average condition. The horizontal distribution of soil contamination was assumed based on concentration levels from nearby sample locations, as opposed to taking into account the entire area.

- The water balance represents an overall average rainwater recharge, and assumes an even distribution of infiltration in the modeled area. An average water balance assumes some areas will have higher or lower recharge based on the heterogeneity of the soil and varying topography.

The inherent uncertainties associated with using these assumptions must be recognized. K_d values are highly sensitive to changes in the major chemistry of the solution phase. Therefore, it is important that the values be measured or estimated under conditions that will represent as closely as possible those of the contaminant plume. Deviations from actual AOC-specific parameter values from assumed literature values may significantly affect contaminant fate predictions. It is also important to

note that the contaminant plume will change over time, and will be affected by multiple solutes that are present at the AOC. The effects of heterogeneity, and anisotropy are not addressed in these simulations.

The discrepancy between the contaminant concentrations measured in the field and the values predicted by the model could be investigated by performing sensitivity analyses on the model input parameters that have the most influence on the model predictions. These parameters are: (1) biodegradation rate constants for organic chemicals; (2) saturated hydraulic conductivity; (3) soil porosity; (4) fraction of soil organic carbon-content (f_{oc}) for organic chemicals; (5) K_d for inorganic chemicals; and (6) longitudinal, transverse, and vertical dispersivity values. Generally, higher biodegradation rates will produce lower concentrations, and lower rates will produce higher concentrations for organic chemicals without impacting the results of the inorganic chemicals. Higher hydraulic conductivity and dispersivity causes higher advection and dispersion, thereby producing lower peaks near the source area but increasing the migration distance. The reverse will be true with lower hydraulic conductivity and dispersivity values. Higher f_{oc} values have a similar effect on organic chemicals as higher K_d has on inorganic chemicals. They decrease the mobility of the chemicals as well as produce lower concentrations in groundwater.

6.5 SUMMARY AND CONCLUSIONS

Based on the results of the PBA08 RI sampling activities, inorganic SRCs and organic SRCs exist in surface soil and subsurface soil at the AOC. These SRCs were further evaluated to determine if residual concentrations in soil are protective of groundwater.

Conclusions of the soil screening, leachate modeling, and groundwater modeling are as follows:

- Arsenic and naphthalene were identified as initial CMCOPCs based on soil screening and travel time analyses (Table 6-1).

- Arsenic was identified as a final CMCOPC from the contaminant fate and transport modeling. Based on the results of the SESOIL modeling (Table 6-3), the maximum concentration of arsenic in leachate directly below the source and above the water table was above the respective screening criteria. Therefore, AT123D modeling was required to predict the maximum concentration of arsenic in groundwater after mixing with the leachate.

- The predicted maximum concentration of arsenic in groundwater was predicted to exceed the screening criteria beneath the source area, but did not exceed the screening criteria at the downgradient receptor location (i.e., wetland area southeast of the AOC).

Based on the soil screening analyses and fate and transport modeling, all SRCs found in the surface and subsurface soil samples and evaluated through the stepwise fate and transport screening evaluation presented here are eliminated as posing future impacts to groundwater.

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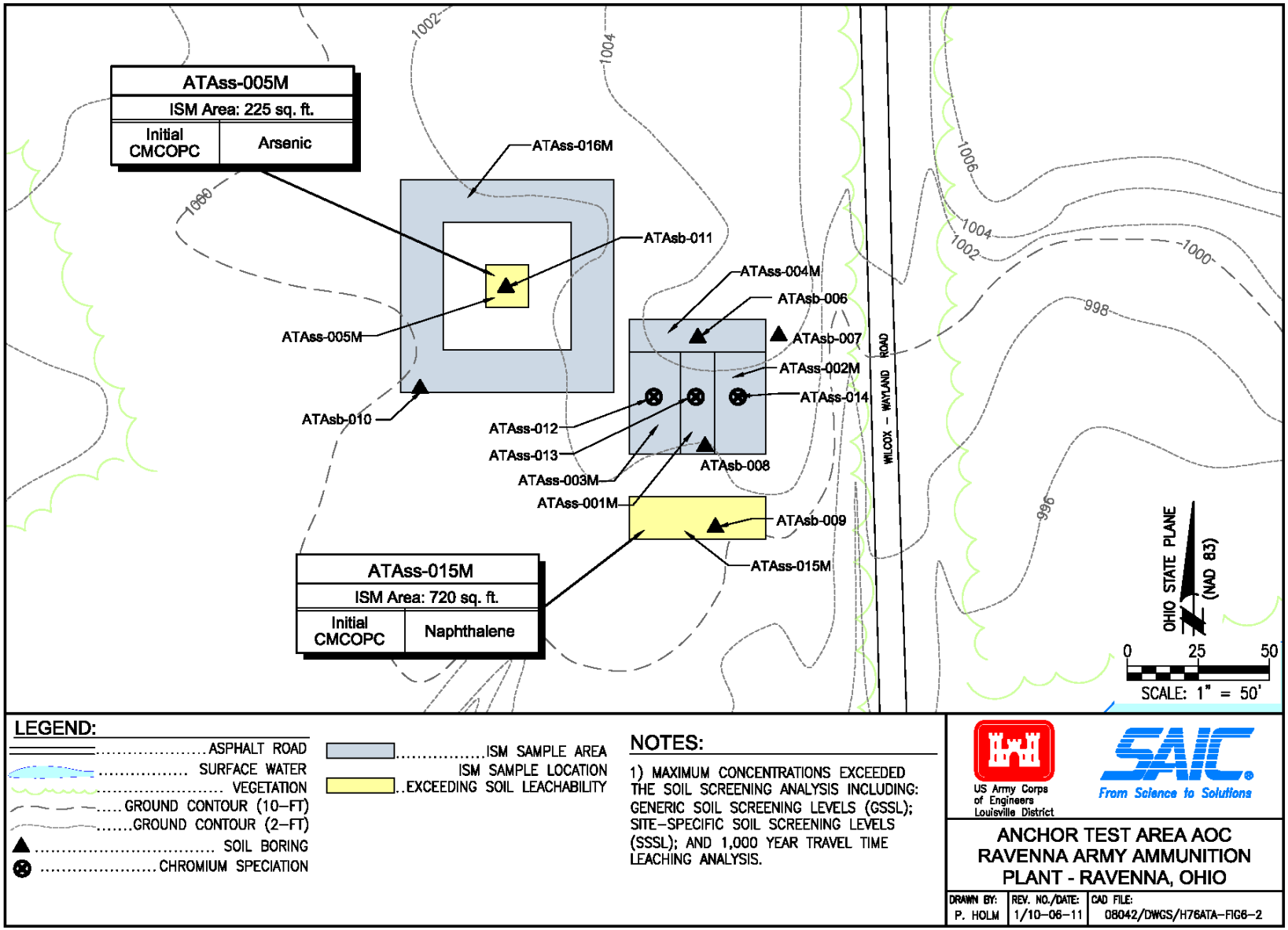

Figure 6-2. Initial CMCOPCs Identified in Soil Screening Analysis for SESOIL Evaluation

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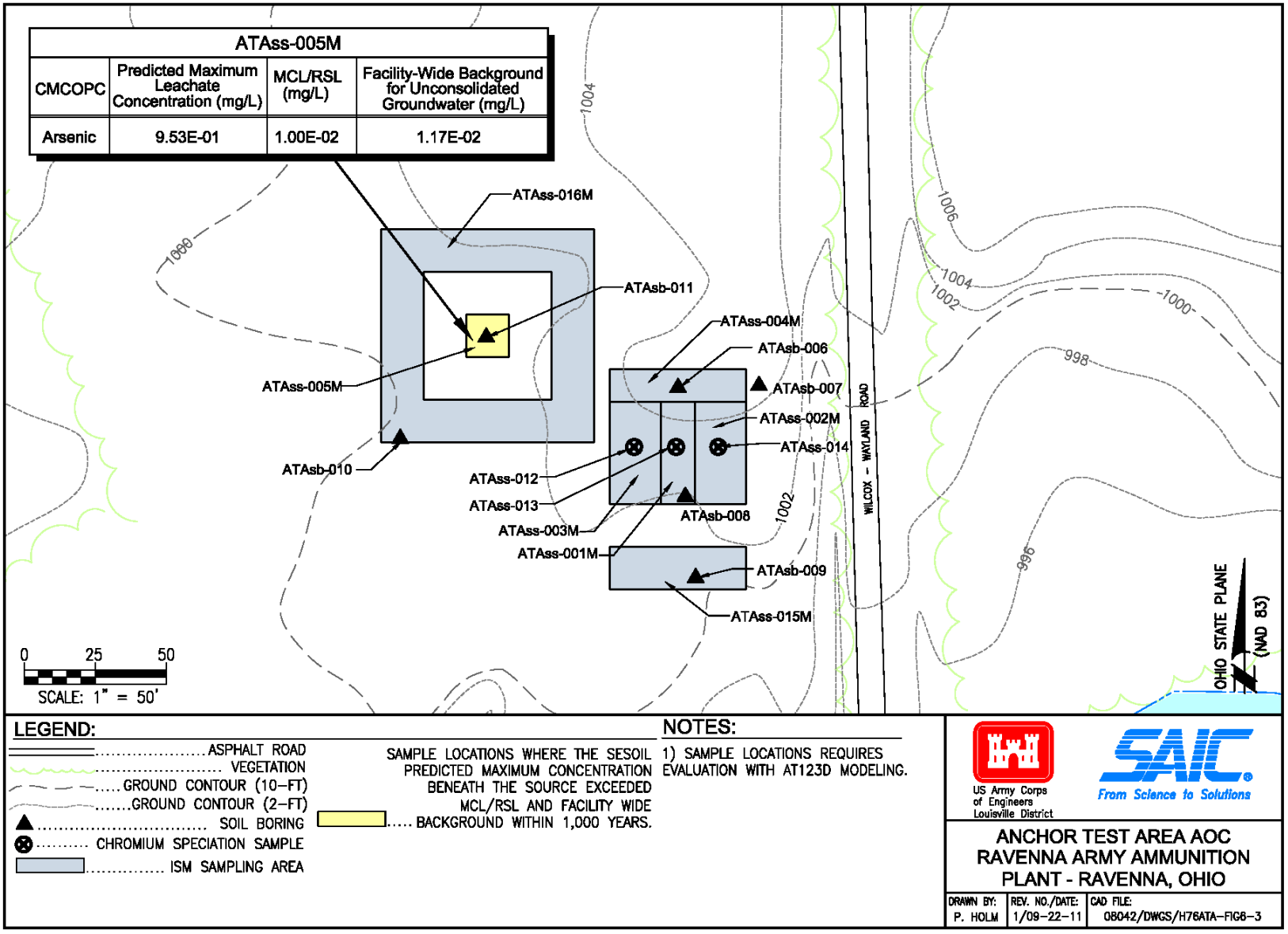

Figure 6-3. CMCOPCs Identified in SESOIL for AT123D Evaluation

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7.0 RISK ASSESSMENT

7.1 DATA EVALUATION FOR HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENTS

The purpose of the data evaluation is to develop a set of chemical data suitable for use in the HHRA and ERA. Anchor Test Area data were evaluated to establish data aggregates and identify a list of SRCs.

Section 5.1 provides a summary of available data. Soil data collected at Anchor Test Area were grouped (aggregated) by depth interval (e.g., surface soil), EU, and sample type (i.e., discrete or ISM). Samples included in the risk assessment data sets for surface soil, deep surface soil, and subsurface soil are listed in Tables 7-1 through 7-3. There are no ditches or permanent surface water features on the AOC; therefore, no sediment or surface water samples were collected. The area immediately surrounding Anchor Test Area is forested, except for a clearing approximately 500 ft south of the AOC that is occupied by a large wetland. Drainage associated with rainfall and snow melt follows surface topography flowing in all directions from the high ground. Anchor Test Area is located on the south side of a topographic high; however, the land within and immediately surrounding the AOC has only small topographic relief. Thus, much of the precipitation landing on this area is expected to infiltrate the soil rather than run off. The high percentage of vegetative ground cover at the AOC increases infiltration and decreases erosion. A description of the soil data aggregates for which human and ecological receptors are potentially exposed is provided in Section 7.1.1, followed by a summary of SRCs in Section 7.1.2.

7.1.1 Data Aggregates

Anchor Test Area is approximately 0.5 acres and includes several dirt mounds and a nearby sand pit. The AOC is evaluated as a single EU. Evaluation as a single EU is appropriate for the potential current and future exposures at this AOC (e.g., National Guard Training, see Section 7.2.3) because a trainee could potentially move across the entire area during training. Since different future receptors are assumed to be exposed to soil at different depths, soil data within the Anchor Test Area EU were aggregated by the following depth intervals:

- Surface soil is defined as 0-1 ft bgs (shallow surface soil) for the Resident Farmer (Adult and Child) receptor. This depth interval is also most appropriate for evaluating potential risk to ecological receptors because that layer is the most active biological zone (USACE 2003c). For this risk assessment, shallow surface soil ISM samples collected in 2004 for the Characterization of 14 AOCs and in 2010 for the PBA08 RI were used to characterize surface soil.

- Deep surface soil is defined as 0-4 ft bgs for the National Guard Trainee. The upper portion (0-1 ft bgs) of this interval was characterized using ISM sampling, and the deeper portion (1-4 ft bgs) of this interval was characterized using discrete samples from soil borings. Due to different levels of variability in these two data types, these two intervals were evaluated separately.

- Subsurface soil is defined as 1-13 ft bgs for the Resident Farmer and 4-7 ft bgs for the National Guard Trainee. Discrete soil data from samples collected in February 2010 with a starting depth within these intervals were used to evaluate subsurface soil for these scenarios. Subsurface soil is not appropriate for evaluating potential risk to most ecological receptors (USACE 2003c).

Samples included in the risk assessment data sets for soil are listed in Tables 7-1 (surface soil), 7-2 (deep surface soil), and 7-3 (subsurface soil).

Table 7-1. Risk Assessment Data Set for Surface Soil (0-1 ft bgs) ISM Samples

Station	Sample ID	Date	Depth (ft bgs)
ATAss-001M	ATAss-001M-SO	11/8/2004	0-1
ATAss-002M	ATAss-002M-SO	11/8/2004	0-1
ATAss-003D[a]	ATAss-003D-SO	11/8/2004	0-1
ATAss-003M	ATAss-003M-SO	11/8/2004	0-1
ATAss-004M	ATAss-004M-SO	11/8/2004	0-1
ATAss-005M	ATAss-005M-SO	11/8/2004	0-1
ATAss-015M	ATAss-015M-5036-SO	2/17/2010	0-1
ATAss-016M	ATAss-016M-5037-SO	2/17/2010	0-1
ATAss-012[b]	ATAss-012-5033-SO	2/17/2010	0-1
ATAss-013[b]	ATAss-013-5034-SO	2/17/2010	0-1
ATAss-014[b]	ATAss-014-5035-SO	2/17/2010	0-1

[a]Discrete sample taken in ISM areas for the determination of volatile organic compounds.
[b]Chromium speciation samples used to evaluate the presence of hexavalent chromium. ATAss-012 collected at ISM area ATAss-003M; ATAss-013 collected at ISM area ATAss-001M; ATAss-014 collected at ISM area ATAss-002M.
bgs = below ground surface
ISM = Incremental Sampling Method

Table 7-2. Risk Assessment Data Set for Deep Surface Soil (1-4 ft bgs) Discrete Samples

Station	Sample ID	Date	Depth (ft bgs)
ATAsb-006	ATAsb-006-5128-SO	2/24/2010	1-4
ATAsb-008	ATAsb-008-5134-SO	2/24/2010	1-4
ATAsb-009	ATAsb-009-5138-SO	2/24/2010	1-4
ATAsb-010	ATAsb-010-5142-SO	2/24/2010	1-4
ATAsb-011	ATAsb-011-5146-SO	2/24/2010	1-4

Deep surface soil is defined as 0-4 ft bgs for National Guard Trainee. Because 0-1 ft bgs samples were collected using ISM and discrete sampling was used for the 1-4 ft bgs interval, these intervals were evaluated separately.
bgs = below ground surface
ISM = Incremental Sampling Method

Table 7-3. Risk Assessment Data Set for Subsurface Soil Discrete Samples

Station	Sample ID	Date	Depth (ft bgs)
National Guard Trainee[a]			
ATAsb-006	ATAsb-006-5129-SO	2/24/2010	4-7
ATAsb-008	ATAsb-008-5135-SO	2/24/2010	4-7
ATAsb-009	ATAsb-009-5139-SO	2/24/2010	4-7
ATAsb-010	ATAsb-010-5143-SO	2/24/2010	4-7
ATAsb-011	ATAsb-011-5147-SO	2/24/2010	4-7
Resident Farmer[b]			
ATAsb-006	ATAsb-006-5128-SO	2/24/2010	1-4
ATAsb-008	ATAsb-008-5134-SO	2/24/2010	1-4
ATAsb-009	ATAsb-009-5138-SO	2/24/2010	1-4
ATAsb-010	ATAsb-010-5142-SO	2/24/2010	1-4
ATAsb-011	ATAsb-011-5146-SO	2/24/2010	1-4
ATAsb-006	ATAsb-006-5129-SO	2/24/2010	4-7
ATAsb-008	ATAsb-008-5135-SO	2/24/2010	4-7
ATAsb-009	ATAsb-009-5139-SO	2/24/2010	4-7
ATAsb-010	ATAsb-010-5143-SO	2/24/2010	4-7
ATAsb-011	ATAsb-011-5147-SO	2/24/2010	4-7
ATAsb-006	ATAsb-006-5130-SO	2/24/2010	7-13

[a]Subsurface soil is defined as 4-7 ft bgs for National Guard Trainee
[b]Subsurface soil is defined as 1-13 ft bgs for Resident Farmer
bgs = below ground surface

During previous investigations at Anchor Test Area, subsurface soil samples were collected at 1-3 ft bgs and 3-5 ft bgs. These samples were used for nature and extent evaluation only, because they are spatial composite samples collected using a methodology different from what was used to collect subsequent discrete subsurface samples. For more information on these samples see Section 5.1.4. A summary of previous investigative activities performed at Anchor Test Area is provided in Section 2.2.2.

7.1.2 Identification of SRCs

Section 5.1 presented the statistical methods and screening criteria used to identify SRCs present at concentrations that indicate potential impacts related to historical operations within the AOC. The purpose of the SRC identification is to determine the presence or absence of contamination that is site-related and is above naturally-occurring levels. The SRC screen followed the steps outlined in the in Figure 5-1 (Figure 1-2 in the FWCUG Report) and is summarized as follows:

- Background screening: The MDC of naturally-occurring inorganic chemicals were compared to the facility-wide background concentrations for RVAAP, originally published in the *Phase II Remedial Investigation Report for Winklepeck Burning Grounds* (USACE 2001b) and summarized in the FWCUG Report. Inorganic chemicals in each medium with MDCs above background screening values (BSVs) or having no BSVs were retained as SRCs.

- Screening of essential human nutrients: Chemicals considered essential nutrients (e.g., calcium, chloride, iodine, iron, magnesium, potassium, phosphorous, and sodium) are an integral part of the human food supply and are often added to foods as supplements. USEPA recommends these chemicals not be evaluated so long as they are: (1) present at low concentrations (i.e., only slightly elevated above naturally occurring levels); and (2) toxic at only very high doses (i.e., much higher than those that could be associated with contact at the AOC) (USEPA 1989). Essential nutrients detected near or below their RDA/RDI-based screening levels were eliminated as SRCs.

- Frequency of detection screening: The FWCUG Report allows for screening based on frequency of detection, where analytes detected in less than 5% of the samples can be screened out from further consideration except for explosives and propellants. However, for this AOC, no frequency-of-detection screening was performed because fewer than 20 discrete samples were available. The frequency of detection screening was not applied to ISM samples.

Details of the SRC screening for each exposure medium are provided in Tables G-1 (surface soil, 0-1 ft bgs), G-2 (deep surface soil, 1-4 ft bgs), G-3 (subsurface soil, 4-7 ft bgs), and G-4 (subsurface soil, 1-13 ft bgs). The SRCs identified for Anchor Test Area are summarized in Table 7-4 below.

Table 7-4. Summary of SRCs

SRC	Surface Soil[a] (0-1 ft bgs)	Deep Surface Soil[b] (1-4 ft bgs)	Subsurface Soil[b] (4-7 ft bgs)	Subsurface Soil[b] (1-13 ft bgs)
Arsenic	X	--	--	--
Barium	X	--	--	--
Beryllium	X	--	--	--
Cadmium	X	X	X	X
Chromium	X	--	--	--
Cobalt	X	--	--	--
Manganese	X	--	--	--
Mercury	X	--	--	--
Nickel	X	--	--	--
Silver	--	X	X	X
Thallium	X	--	--	--
2-Methylnaphthalene	X	--	--	--
Benzo(b)fluoranthene	X	--	--	--
Bis(2-ethylhexyl)phthalate	X	--	X	X
Naphthalene	X	--	--	--
Methylene Chloride	--	--	X	X
Toluene	--	X	X	X

[a]Surface soil characterized using ISM sampling
[b]Deep surface and subsurface soil characterized using discrete sampling
X = Chemical is an SRC in this medium
-- = Chemical not identified as an SRC in this medium
bgs = below ground surface
ISM = Incremental Sampling Method
SRC = Site-related Contaminant

7.2 HUMAN HEALTH RISK ASSESSMENT

The HHRA presents COCs that may pose potential health risks to humans from exposure to contamination at Anchor Test Area. The HHRA was conducted as part of the PBA08 RI and is based on the methods from the FWCUG Report.

Recently, the RVAAP project team (i.e., Ohio EPA and USACE Louisville District) proposed an approach for efficient risk-based decision making at RVAAP that incorporates past experience gained through previously completed work. To accomplish this goal of streamlined risk-based decision making, the FWCUG Report was developed to support the environmental remediation of the remaining AOCs at RVAAP to complete final transfer of the land to OHARNG. The FWCUG Report contains calculated FWCUGs and guidance for their application to accelerate the decision-making process for the remaining AOCs, taking advantage of the many risk assessment inputs and decisions for the facility that have been agreed to by stakeholders through the application of the CERCLA process over the past 10 years. Most of the agreed-to risk assessment methods have been documented in the FWHHRAM and follow standard USEPA-approved risk assessment guidance. This includes the Process to Identify RVAAP Chemicals of Potential Concern (presented in Figure 5-1), the use of the TR of 1E-06 and HQ of 0.1 to identify COPCs, and the use of the TR of 1E-05 and HQ of 1.0 to identify COCs

The approach to risk-based decision-making is as follows (USACE 2010a):

1. Using the risk assessment process presented in the FWHHRAM (and included in the Final White Paper provided in Appendix A of the FWCUG Report), develop FWCUGs for all COPCs identified from the facility wide data set at RVAAP.

2. Perform RI characterization sampling and analysis to establish the baseline chemical concentrations within an AOC.

3. Perform data analysis and mapping to identify SRCs and COPCs using the process presented in Figure 5-1 (Figure 1-2 in the FWCUG Report), determine EUs, and calculate exposure point concentrations (EPCs) for each COPC following the requirements for performing these tasks as spelled out in the FWHHRAM and further clarified in the position paper developed by USACE provided in Appendix B of the FWCUG Report (USACE 2010a).

4. Compare EPCs to the FWCUGs to determine COCs.

5. Perform the FS, PP, and ROD to address any identified COCs.

Step 1 of this process (develop FWCUGs) has been completed in the FWCUG Report. The results of Step 2 (RI characterization sampling) and Step 3 (mapping and data analysis to identify SRCs) are presented in Sections 4.0 and 5.0 of this report and are summarized in Section 7.1.

The remainder of Step 3 (identification of COPCs) and Step 4 (determine COCs) are provided in the following subsections and follow the four steps for a streamlined risk assessment (also shown in Figure 1-3): identify media of concern (Section 7.2.1); identify COPCs (Section 7.2.2); determine AOC land use and appropriate receptors (Section 7.2.3); and compare to appropriate FWCUGs to identify COCs (Section 7.2.4).

7.2.1 Identify Media of Concern

Media of concern at Anchor Test Area are surface and subsurface soil, as defined in Section 7.1.1. Surface water and sediment were not evaluated because they are not present at this AOC. Groundwater is present at this AOC and will be evaluated (including risk assessment) in a separate document, as described in Section 1.2.

7.2.2 Identify COPCs

Section 5.1 presents the statistical methods and screening criteria used to identify SRCs. COPCs were identified here as a subset of the SRCs, identified in Section 5.0 and summarized in Section 7.1.2, in each exposure medium present at concentrations that indicate potential impacts to human receptors. The COPC screen follows the approach specified in the FWCUG Report and is summarized here.

For the determination of COPCs, the MDC of all SRCs was screened against the chemical-specific FWCUGs at a target cancer risk level of 1E-06 and non-carcinogenic target HQ of 0.1 for the Resident Farmer Adult, Resident Farmer Child, and the National Guard Trainee. If no FWCUGs existed for an SRC, the USEPA residential RSL (from RSL table dated May 2010) was used for this screen. Hexavalent chromium was detected in 1 of 3 speciation samples at Anchor Test Area; therefore, as part of the conservative screening approach for identifying COPCs, the FWCUG for hexavalent chromium (the more toxic of the 2 chromium species evaluated) was used at this stage.

Details of the COPC screening for each exposure medium are provided in Appendix G, Tables G-1 (surface soil, 0-1 ft bgs), G-2 (deep surface soil, 1-4 ft bgs), G-3 (subsurface soil, 4-7 ft bgs) and G-4 (subsurface soil, 1-13 ft bgs). These tables include all carcinogenic and non-carcinogenic risk-based FWCUG or RSL values for each chemical. SRCs were identified as COPCs if the detected concentrations exceed the most protective (i.e., lowest) FWCUG. The COPCs identified for the media of concern at Anchor Test Area are presented in Table 7-5 and summarized below.

7.2.2.1 COPCs in Surface Soil

Surface soil is defined as 0-1 ft bgs (shallow surface soil) for the Resident Farmer (Adult and Child) receptor (USACE 2010a). For this risk assessment, shallow surface soil ISM samples collected in 2004 and 2010 were used to characterize surface soil. Deep surface soil is defined as 0-4 ft bgs for the National Guard Trainee. Because the upper (0-1 ft bgs) portion of this interval was characterized using ISM sampling and the deeper (1-4 ft bgs) portion of this interval was characterized using discrete samples from soil borings, these two intervals were evaluated separately.

Twenty-six chemicals were detected in shallow surface soil (0-1 ft bgs) ISM samples; 14 of these chemicals (10 inorganic chemicals and 4 SVOCs) were identified as SRCs. Risk-based screening identified four inorganic chemicals (arsenic, chromium, cobalt, and manganese) as COPCs in shallow surface soil.

Twenty-four chemicals were detected in deep surface soil (1-4 ft bgs) discrete samples; three of these chemicals (2 inorganic chemicals and 1 VOC) were identified as SRCs. Risk-based screening identified no COPCs in deep surface soil.

At Anchor Test Area, chromium was identified as an SRC in shallow surface soil but not deep surface soil. The MDC of total chromium in shallow surface soil was 42.3 mg/kg, which is greater than the lowest screening value for hexavalent chromium (1.64 mg/kg) and greater than the total chromium background concentrations for shallow and deep surface soil (17.4 mg/kg and 27.2 mg/kg, respectively). Therefore, total chromium was retained as a COPC for shallow surface soil. The MDC of total chromium in deep surface soil of 22.2 mg/kg was less than the total chromium background concentration for this soil interval (27.2 mg/kg); therefore, total chromium was not retained as a COPC for deep surface soil.

7.2.2.2 COPCs in Subsurface Soil

Subsurface soil is defined as 4-7 ft bgs for the National Guard Trainee and 1-13 ft bgs for the Resident Farmer. Twenty-six chemicals were detected in discrete subsurface soil samples. Five of these chemicals (2 inorganic chemicals, 1 SVOC, and 2 VOCs) were identified as SRCs. However, risk-based screening identified no COPCs in either of these subsurface soil intervals.

Table 7-5. Summary of COPCs

SRC	Surface Soil[a] (0-1 ft bgs)	Deep Surface Soil[b] (1-4 ft bgs)	Subsurface Soil[b] (4-7 ft bgs)	Subsurface Soil[b] (1-13 ft bgs)
Arsenic	X	--	--	--
Chromium	X	--	--	--
Cobalt	X	--	--	--
Manganese	X	--	--	--

[a]Surface soil characterized using ISM sampling
[b]Deep surface and subsurface soil characterized using discrete sampling
X = Chemical is an COPC in this medium
-- = Chemical not identified as a COPC in this medium
bgs = below ground surface
COPC = Chemical of Potential Concern
ISM = Incremental Sampling Method
SRC = Site-related Contaminant

7.2.3 Determine AOC Land Use and Appropriate Receptors

Anchor Test Area is located in the south central portion of RVAAP west of Wilcox-Wayland Road, south of Newton Falls Road, and north of South Service Road. Although operational information about Anchor Test Area is relatively limited, the AOC was used for research, development, and the

testing of explosively-driven soil anchoring devices. The dates of use for Anchor Test Area are unknown, although it is believed testing activities did not occur until after 1961.

Anchor Test Area encompasses approximately 0.5 acres and includes several dirt mounds with a nearby sand pit (approximately 12 ft by 36 ft). There is metal debris in the area. The non-operational areas of Anchor Test Area are heavily forested, and the former operational areas of the AOC are covered with trees, rough grasses, and scrub vegetation. The area immediately surrounding Anchor Test Area is forested except for a clearing approximately 500 ft south of the AOC that is occupied by a large wetland area. The land within and immediately surrounding the AOC has little topographic relief. Thus, much of the precipitation landing on this area is expected to infiltrate the soil rather than run off. The high percentage of vegetative ground cover at the AOC will further help increase infiltration and decrease erosion.

RVAAP is a controlled access facility that is fenced and patrolled by security personnel. Anchor Test Area, located in the south-central portion of RVAAP, is currently inactive. Full-time OHARNG, BRAC, and contractor staff work at the facility. Military training and operations are conducted at the facility. The OHARNG projected future land-use for the AOC is Military Use and Training. The representative receptor is the National Guard Trainee and per the FWHHRAM this constitutes the Risk Assessment Land Use of Dismounted Training-Digging. National Guard Training, in conjunction with the evaluation of agricultural-residential land uses and associated receptors, form the basis for identifying COCs. Residential Land Use, specifically the Resident Farmer scenario, is included to evaluate COCs for unrestricted land use at the AOC as required by the CERCLA process and as outlined in the FWHHRAM (USACE 2005a).

7.2.4 Compare to Appropriate FWCUGs

Previous sections have outlined the process for identifying SRCs (Section 7.1.2) and COPCs (Section 7.2.2). The comparison to FWCUGs and determination of COCs follows guidance presented in Appendix B of the FWCUG Report. The screening process is as follows:

- Select the FWCUGs corresponding to a TR of 1E-05 and target HQ of 1.0 for: (1) the planned National Guard end-use (i.e., National Guard Trainee); and (2) the Resident Farmer Adult and Child receptors to evaluate an unrestricted land use scenario.

- Report all carcinogenic and non-carcinogenic based FWCUGs for each COPC for all appropriate receptors (i.e., National Guard Trainee and Resident Farmer Adult and Child).

- Report critical effect and target organ for each of the non-carcinogenic based FWCUGs.

- Complete a comparison of the selected FWCUG to the EPC, including a sum-of-ratios (SOR). The SOR is used to account for the potential additive effects from exposure to multiple chemicals that can cause the same effect (e.g., cancer) or affect the same target organ. Cancer risk is assumed to be additive for all carcinogens. Non-cancer risk is assumed to be additive for chemicals with similar sites of toxicological action (i.e., target organ such as liver or critical

effect such as adversely effecting the ability to reproduce). This approach compares the EPC of each COPC to the FWCUG to determine a ratio. The sum of these individual ratios is then compared to 1. The SOR method is based on the principle that a ratio greater than 1 represents unacceptable cumulative exposure (i.e., above FWCUGs if adjusted for exposure to multiple COPCs), and a ratio less than or equal to 1 represents acceptable cumulative exposure (i.e., below FWCUGs if adjusted for exposure to multiple COPCs).

  - For non-carcinogens, compare the EPC to the target HQ FWCUG. Sum the ratios of EPC/FWCUG for COPCs that affect similar target organs.
  - For carcinogens, compare the EPC to the TR FWCUG. Sum the ratios of EPC/FWCUG for all carcinogens.

- The COPC is identified as a COC for a given receptor:
  - If the EPC exceeds the more protective FWCUG for either the 1E-05 target cancer risk or the 1.0 target HQ; or
  - If the SOR for all carcinogens or all non-carcinogens that may affect the same organ is greater than 1, chemicals contributing at least 10% to the SOR are also considered COCs.

The process for calculating FWCUGs is a rearrangement of the cancer risk or non-cancer hazard equations, with the goal of obtaining the concentration that will produce a specific risk or hazard level. For example, the FWCUG for arsenic at the cancer risk level of 1E-05 for the National Guard Trainee is the concentration of arsenic that produces a risk of 1E-05 when using the exposure parameters specific to the National Guard Trainee receptor. Exposure parameters used to calculate FWCUGs for the receptors evaluated for Anchor Test Area are presented in Appendix G, Table G-5.

For carcinogens, risk is expressed as the probability that an individual will develop cancer over a lifetime as a result of exposure to the carcinogen. Cancer risk from exposure to contamination is expressed as the increased chance of cancer above the normal background rate of cancer. In the United States, the background chance of contracting cancer is a little more than 3 in 10, or 3E-01 (American Cancer Society 2003). The calculated incremental lifetime cancer risks (ILCRs) are compared to the range specified in the NCP of 10-6 to 10-4, or 1 in one million to 1 in 10,000 exposed persons developing cancer (USEPA 1990). Cancer risks below 10-6 are considered acceptable; cancer risks above 10-4 are considered unacceptable. The range between 10-6 and 10-4 is of concern, and any decisions to address risks further in this range, either through additional study or engineered control measures, should account for the uncertainty in the risk estimates. The Ohio EPA Division of Environmental Response and Revitalization (DERR) Remedial Response program has adopted a human health cumulative ILCR goal within this range of 1E-5 to be used as the level of acceptable excess cancer risk and for the development of remediation goals for a site. The DERR notes the defined risk goal should be applied as a goal, recognizing the need to retain flexibility during the evaluation and selection of remedial alternatives.

In addition to developing cancer from exposure to chemicals, an individual may experience other toxic effects. The term “toxic effects” is used here to describe a wide variety of systemic effects ranging from minor irritations, such as eye irritation and headaches, to more substantial effects, such

as kidney or liver disease and neurological damage. The risks associated with toxic (i.e., non-carcinogenic) chemicals are evaluated by comparing an estimated exposure (i.e., intake or dose) from AOC media to an acceptable exposure expressed as a reference dose (RfD). The RfD is the threshold level below which no toxic effects are expected to occur in a population, including sensitive subpopulations. The ratio of intake over the RfD is the HQ (USEPA 1989).

The SOR is used to account for the potential additive effects from exposure to multiple chemicals that can cause the same effect (e.g., cancer) or affect the same target organ. Cancer risk is assumed to be additive for all carcinogens. Non-cancer risk is assumed to be additive for chemicals with similar sites of toxicological action (i.e., target organ such as the liver or critical effect such as adversely effecting the ability to reproduce). This approach compares the EPC of each COPC to the FWCUG to determine a ratio. The sum of these individual ratios is then compared to 1. The SOR method is based on the principle that a ratio greater than 1 represents unacceptable cumulative exposure (i.e., above FWCUGs if adjusted for exposure to multiple COPCs), and a ratio less than or equal to 1 represents acceptable cumulative exposure (i.e., below FWCUGs if adjusted for exposure to multiple COPCs). The FWCUGs for some chemical/receptor combinations are less than the background concentration. In these instances the chemical concentrations are compared to background concentrations for identification of COCs. Since the background concentration is not risk-based, these chemicals are not included in the SOR calculations.

The COCs identified by the comparison of EPCs to FWCUGs are further evaluated in an uncertainty analysis to identify COCs requiring evaluation in the FS.

The selection of FWCUGs, calculation of EPCs for comparison to the FWCUGs, and the resulting risk-based COCs are detailed in the following sections for Anchor Test Area.

7.2.4.1 Selection of Appropriate FWCUGs

The RAFLU for Anchor Test Area is National Guard Training with Digging. The representative receptor for selecting FWCUGs for the Anchor Test Area evaluation is the National Guard Trainee. In addition to this planned OHARNG land use, the Resident Farmer Adult and Child FWCUGs are used to evaluate an unrestricted land use scenario.

FWCUGs for these receptors from the FWCUG Report (USACE 2010a) are provided in Table 7-6 for all COPCs. The critical effect or target organ associated with the toxicity values used to calculate the FWCUGs are also provided in this table.

Table 7-6. FWCUGs Corresponding to an HQ of 1.0 and Target Risk of 1E-05 in Soil

COPC	Critical Effect or Target Organ	FWCUG (mg/kg)			
		National Guard Trainee		Resident Farmer[a]	
		HQ = 1.0	TR = 1E-05	HQ = 1.0	TR = 1E-05
Arsenic	Skin	1140	27.8[c]	20.2	4.25[d]
Chromium, hexavalent[b]	Stomach, liver/kidney	56.1	16.4	199	1874
Chromium, trivalent	NOAEL	1,000,000	--	81,473	--
Cobalt	NS	140	70.3	1313	8030
Manganese	CNS	351[cd]	--	2927	--

[a]Resident Farmer FWCUGs are the smaller of the Adult or Child values for each COPC and endpoint (non-cancer and cancer)
[b]FWCUG for hexavalent chromium was calculated using a cancer URF developed for a chromate mixture consisting of 1/7 hexavalent chromium and 6/7 trivalent chromium
[c]FWCUGs are less than precedent CUG values for the National Guard Trainee for arsenic (31 mg/kg) and manganese (1800 mg/kg) published in the *Interim Record of Decision for the Remediation of Soils at Load Lines 1 through 4* (USACE 2007a), the *Record of Decision for Soil and Dry Sediment for RVAAP-12 Load Line 12* (USACE 2009b), and/or the *Final Record of Decision for Soil and Dry Sediment at the Fuze and Booster Quarry Landfill/Ponds (RVAAP-16)* (USACE 2007b) as documented in Table 5-12 of the *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010a).
[d]FWCUGs are less than the background screening values for arsenic in surface soil (15.4 mg/kg) and subsurface soil (19.8 mg/kg) and for manganese in surface soil (1450 mg/kg) and subsurface soil (3030 mg/kg).
CNS = Central Nervous System
COPC = Chemical of Potential Concern
CUG = Cleanup Goal
FWCUG = Facility-Wide Cleanup Goal
HQ = Hazard Quotient
NOAEL = No Observable Adverse Effect Level
NS = Not specified
TR = Target Risk
-- = No value available

FWCUGs are available for both hexavalent chromium and trivalent chromium. Existing historical data at other AOCs indicates chromium exists predominantly in the trivalent state, rather than the more toxic hexavalent state. To determine whether the FWCUG for trivalent or hexavalent chromium is most applicable to Anchor Test Area and to support risk management decisions, three discrete surface soil samples were collected and analyzed for hexavalent chromium and total chromium per the PBA08 SAP, as described in Sections 4.1.1 and 5.1.2. Two samples were collected from areas previously identified as having elevated total chromium concentrations, and one sample was collected from an area identified as having chromium concentrations near background concentrations. This process has been approved and was documented in the *Remedial Investigation Report Addendum No. 1 for the RVAAP-49 Central Burn Pits* (USACE 2008). Identification of the appropriate FWCUGs for evaluating chromium results is based on evaluation of the following lines of evidence:

- **Calculation of the percent hexavalent chromium in chromium speciation samples.** The FWCUG for hexavalent chromium is based on a cancer unit risk factor (URF) calculated using a chromium mixture assumed to contain 14% hexavalent chromium and 86% trivalent chromium. (USEPA 1998). No hexavalent chromium was detected in two of the three chromium speciation samples collected at Anchor Test Area. Hexavalent chromium was detected in the third speciation sample at 1.1 mg/kg, which is 5.3% of the total chromium measured in this sample.

These results are below the 14% hexavalent chromium used as the basis for the cancer URF, which was used to calculate the hexavalent chromium FWCUGs.

- **Comparison of the concentration of hexavalent chromium detected in the chromium speciation samples to a FWCUG adjusted to represent only hexavalent chromium.** The most protective FWCUG for hexavalent chromium is for the National Guard Trainee (16.4 mg/kg) and is calculated from a cancer URF based on a chromium mixture containing one-seventh (14%) hexavalent chromium (USEPA 2010b). Since the study used as the basis for the cancer URF included workers exposed to both trivalent and hexavalent chromium, the FWCUG must be adjusted to represent only hexavalent chromium for comparison to hexavalent chromium results in the speciation samples. The toxicological review of hexavalent chromium written in support of summary information on the USEPA's Integrated Risk Information System (IRIS) states that the risk of hexavalent chromium is estimated on the basis of the total chromium obtained from all the soluble and insoluble chromium to which workers were exposed. Since there are likely differences between the chromium compounds to which workers were exposed, the potency of hexavalent chromium compounds may be underestimated. However, since the maximum ratio of trivalent chromium to hexavalent chromium reported in the worker studies is 6, the underestimation of the risk for hexavalent chromium is unlikely to be greater than sevenfold (USEPA 1998). Therefore, one-seventh of the National Guard Trainee FWCUG (16.4/7=2.3mg/kg) is appropriate for evaluation of hexavalent chromium alone. The single detected concentration of hexavalent chromium in the chromium speciation samples (1.1 mg/kg) is less than 2.3 mg/kg, indicating hexavalent chromium is not present above the hexavalent chromium FWCUG.

- **Comparison of the concentration of total chromium to the FWCUG for trivalent chromium.** Hexavalent chromium is present at a very low concentration (i.e., below the FWCUG for hexavalent chromium alone), and the percent hexavalent chromium is less than 14%. Therefore, hexavalent chromium is not of concern at Anchor Test Area, and the reported concentrations of total chromium were compared to the FWCUGs for trivalent chromium for identifying COCs at this AOC.

Hexavalent chromium was not detected in two of the three chromium speciation samples and was detected in the third sample at less than 14% of total chromium. The concentration of hexavalent chromium was also lower than the most conservative FWCUG adjusted to represent only hexavalent chromium. Therefore, hexavalent chromium is not of concern at Anchor Test Area, and the FWCUG for trivalent chromium is appropriate for the identification of COCs.

7.2.4.2 Exposure Point Concentrations for Comparison to FWCUGs

EPCs are intended to provide representative concentrations that a receptor might contact during the period of exposure. For shallow surface soil (0-1 ft bgs), the EPC was the detected concentration in each ISM sample collected at Anchor Test Area. No COPCs were identified in deep surface (1-4 ft bgs) or subsurface soil (4-7 and 1-13 ft bgs); therefore, these depths are not evaluated further.

7.2.4.3 Identification of COCs: National Guard Trainee

COC screening for the shallow surface soil interval (0-1 ft bgs) for the National Guard Trainee receptor is detailed in Appendix G, Tables G-6 (screening against receptor-specific FWCUGs) and G-7 (SOR for carcinogens). No COPCs and, therefore, no COCs were identified for the deep surface (1-4 ft bgs) or subsurface (4-7 ft bgs) soil intervals. Surface soil COCs for the National Guard Trainee are summarized below, and in Table 7-7.

Arsenic was identified as a COC for the National Guard Trainee in shallow surface soil (0-1 ft bgs) at ISM sample location ATAss-005M. The detected EPC in this sample is 54 mg/kg which is greater than the FWCUG of 27.8 mg/kg. The FWCUG Report presents chemicals for which a ROD has been published at the RVAAP, resulting in a precedent CUG that reflects risk management considerations. The precedent CUG for arsenic in surface soil for the National Guard Trainee is 31 mg/kg, as documented in the *Interim Record of Decision for the Remediation of Soils at Load Lines 1 through 4* (USACE 2007a) and the *Record of Decision for Soil and Dry Sediment for RVAAP-12 Load Line 12* (USACE 2009b) and summarized in Table 5-12 of the FWCUG Report. Arsenic was not identified as an SRC in the deeper surface soil interval (1-4 ft bgs) or in the subsurface soil interval (4-7 ft bgs) because all measured concentrations were less than background concentrations.

The reported concentration of manganese (1,500mg/kg) at ISM sample location ATAss-001M exceeds the FWCUG of 351mg/k and the facility-wide surface soil BSV of 1,450mg/kg. The FWCUG Report presents chemicals for which a final ROD has been published at the RVAAP, including manganese, resulting in a precedent CUG that reflects risk management considerations. The precedent CUG for manganese in surface soil is 1,800 mg/kg as documented in the *Interim Record of Decision for the Remediation of Soils at Load Lines 1 through 4* (USACE 2007a) and the *Record of Decision for Soil and Dry Sediment at the Fuze and Booster Quarry Landfill/ Ponds* (USACE 2007b). The detected concentration at sample location ATAss-001M (1,500 mg/kg) is less than the precedent CUG of 1,800 mg/kg; therefore, manganese is not a COC in shallow surface soil.

Chromium was not identified as a COC in surface soil. Using the lines of evidence presented in Section 7.2.4.1, FWCUGs for trivalent chromium were identified as being appropriate for use at Anchor Test Area. The MDC of total chromium in surface soil (42.3 mg/kg) is much less than the National Guard Trainee FWCUG for trivalent chromium (1,000,000 mg/kg). Chromium was not identified as an SRC in the deeper surface soil interval (1-4 ft bgs) because the MDC of total chromium in deep surface soil (22.2 mg/kg) and subsurface soil (16.6 mg/kg) are less than the subsurface background concentration for total chromium of 27.2 mg/kg. Based on these data, chromium is not a COC in Anchor Test Area soil.

No additional COCs were identified based on the SOR analysis as summarized below:

- None of the COPCs have the same non-cancer critical effect or target organs; therefore, an SOR for non-cancer endpoints was not calculated.

- Two COPCs (arsenic and cobalt) identified in shallow surface soil have FWCUGs for the cancer endpoint. An SOR was calculated for each ISM sample (Table G-7). Chromium was not included in the SOR because the measured total chromium concentration is best evaluated as trivalent chromium. All calculated SORs for arsenic and cobalt are $\leq$ 1; therefore, no additional COCs were identified.

The location of surface soil ISM samples having COCs is shown in Table 7-7.

Table 7-7. COC Identified for Evaluation in the FS for Surface Soil (0-1 ft bgs) ISM Samples: National Guard Trainee

Chemical	Result mg/kg	FWCUG mg/kg	Background[a] mg/kg	ISM Sample Location
Arsenic	54	27.8	15.4	ATAss-005M-SO

[a]Background concentrations for surface soil (0-1 ft bgs) from *Phase II Remedial Investigation Report for Winklepeck Burning Grounds* (USACE 2001b).
bgs = below ground surface
COC = Chemical of Concern
FS = Feasibility Study
FWCUG = Risk-based Facility-Wide Cleanup Goal
ISM = Incremental Sampling Method

7.2.4.4 Identification of COCs: Resident Farmer

COC screening for the shallow surface soil interval (0-1 ft bgs) for the Resident Farmer receptor is detailed in Appendix G, Table G-8. No COPCs and no COCs were identified for subsurface soil (1-13 ft bgs). Surface soil COCs for the Resident Farmer are summarized below and in Table 7-8.

Arsenic was the only COC identified for the Resident Farmer in shallow surface soil (0-1 ft bgs) at ISM location ATAss-005M. The detected EPC in this sample (54 mg/kg) was greater than both the Resident Farmer FWCUG (4.25 mg/kg) and the background concentration of 15.4 mg/kg. Arsenic was not identified as an SRC in subsurface soil (1-13 ft bgs). The location of the surface soil ISM sample with arsenic as a COC is shown in Table 7-8.

No additional COCs were identified based on the SOR analysis as summarized below:

- None of the COPCs have the same non-cancer critical effect or target organs; therefore, an SOR for non-cancer endpoints was not calculated.

- The only carcinogenic COPCs are arsenic and cobalt. The FWCUG for arsenic is less than the BSV for this metal; therefore, detected arsenic concentrations are compared to the background concentration for identification of COCs. Since the background concentration is not risk-based arsenic was not included in the SOR analysis.

Table 7-8. COC Identified for Evaluation in the FS for Surface Soil ISM Samples: Resident Farmer

Chemical	Result	FWCUG[a]	Background[b]	ISM Sample Location
Arsenic	54	4.25	15.4	ATAss-005M-SO

[a]Facility-Wide Cleanup Goal (FWCUG) is the minimum of the calculated FWCUGs for the Adult and Child Resident Farmer receptors.
[b]Background concentration for surface soil (0-1 ft bgs) from *Phase II Remedial Investigation Report for Winklepeck Burning Grounds* (USACE 2001b).
bgs = below ground surface
COC = Chemical Of Concern
FS = Feasibility Study
ISM = Incremental Sampling Method

7.2.5 Uncertainty Assessment

The sources of uncertainty, as well as the potential bias they impart to the risk assessment (i.e., whether conservatism is increased or decreased), are briefly discussed below.

7.2.5.1 Uncertainty in Estimating Potential Exposure

Sources of uncertainty in estimating potential human exposure include limitations of the sampling and analysis, comparison to background concentration to identify SRCs, and estimation of EPCs.

Sampling Limitations. Uncertainties arise from limits on the media sampled, the total number and specific locations that can be sampled, and the parameters chosen for analysis to characterize the AOC. Surface soil has been characterized using ISM sampling biased toward areas anticipated to have the highest level of potential contamination. The results of surface soil sampling were used to efficiently guide selection of locations for discrete subsurface soil sampling locations with a bias toward the areas of highest potential contamination.

Analytical Limitations. Uncertainty is associated with the chemical concentrations detected and reported by the analytical laboratory. The quality of the analytical data used in the risk assessment was maximized, and uncertainty was minimized by implementing QA/QC procedures that specify how samples are selected and handled. However, sampling errors, laboratory analysis errors, and data analysis errors can occur. Beyond the potential for errors, there is normal variability in analytical results. Some current analytical methods are limited in their ability to achieve detection limits at or below risk-based screening levels. Under these circumstances, it is uncertain whether the true concentration is above or below the screening levels which are protective of human health. When analytes have a mixture of detected and non-detected concentrations, EPC calculations may be affected by these detection limits. Risks may be overestimated as a result of some sample concentrations being reported as non-detected at the method detection limit (MDL), when the actual concentration may be much smaller than the MDL. Risks may also be underestimated if some analytes that were not detected in any sample were removed from the COPC list. If the concentrations of these analytes are below the MDL, but are above the screening level, the risk from these analytes would not be included in the risk assessment results.

Identification of SRCs. Uncertainty associated with screening against background concentrations results from statistical limitations and natural variation in background concentrations. Because of this variation, inorganic chemical concentrations below the BSVs are likely representative of background conditions. Inorganic chemical concentrations above the BSV may be above the background concentration, or may reflect natural variation. This is especially true for measured concentrations close to the BSV. At Anchor Test Area, six inorganic chemicals identified as SRCs (barium, beryllium, cobalt, manganese, mercury, and nickel) had MDCs in surface soil that were less than 2 times the BSV (thallium and cadmium had no BSV for comparison). The consequences of carrying most of these inorganic chemicals forward as SRCs, even if they are actually representative of background concentrations, is negligible because they are not toxic at near background concentrations. By contrast, naturally-occurring (background) arsenic and manganese in soil exceeds risk-based CUGs. Therefore, the consequence of identifying arsenic and manganese as an SRCs if they are, in fact, representative of background can have a significant impact on the conclusions of the risk assessment. The MDC of arsenic in surface soil at Anchor Test Area was 54 mg/kg. The BSV for arsenic in surface soil at RVAAP is 15.4 mg/kg. Vosnakis and Perry (2009) recently published the results of arsenic background concentration studies that included 313 samples of Ohio soil. In these samples, naturally-occurring arsenic ranged from 1.6 mg/kg to 71.3 mg/kg with a 95^{th} percentile of 21.7mg/kg and upper tolerance limits of 22.8 mg/kg and 29.6 mg/kg for surface soil. Other studies of native soil in Ohio reported concentrations of arsenic ranging from 0.5 to 56 mg/kg (Ohio EPA 1996), and the United States Geological Survey's Certificate of Analysis of the Devonian Ohio Shale estimates arsenic concentrations of 68.5 mg/kg are naturally present in bedrock shales (USGS 2004). Although arsenic appears to be elevated at ISM location ATAss-005M, the background concentration measured by other studies indicates the arsenic levels measured at Anchor Test Area may reflect the high end of naturally occurring background concentrations, rather than contamination. Thus, retention of arsenic as a COC at the AOC has a high level of uncertainty.

Exposure Point Concentrations. Shallow surface soil was characterized using ISM sampling techniques. ISM samples provide a physical average concentration across an exposure area. Use of ISM sampling reduces the uncertainty associated with estimating a statistical average exposure. There is some evidence the use of stainless steel grinding blades in the processing of ISM samples could contribute chromium and nickel to the ISM soil samples. Representative EPCs for surface soil were measured using ISM data based on the assumption that the samples collected were random samples from an exposure area. This assumption is not true for Anchor Test Area, where sample locations were biased to identify areas of highest chemical concentrations and the FWCUGs assume all exposure occurs within these elevated sampled areas. Therefore, EPCs generated from these data are likely to represent an upper bound of potential exposure concentrations.

7.2.5.2 Uncertainty in Use of FWCUGs

Sources of uncertainty in the FWCUGs used to identify COCs include the selection of appropriate receptor and the exposure parameters, exposure models, and toxicity values used in the calculation of FWCUGs.

Selection of Representative Receptors. While future land uses were developed to steer the cleanup program at the facility (as summarized in the FWHHRAM), and it is known the OHARNG will control and use the property for military training, there is still some uncertainty in the specific details of the future land use. There is little to no uncertainty associated with the assumption that RVAAP will not be released for residential use; however, a Resident Farmer receptor is included to provide an unrestricted evaluation.

Exposure Parameters and Exposure Models. For each primary exposure pathway included in the FWCUGs, assumptions are made concerning the exposure parameters (e.g., amount of contaminated media a receptor can be exposed to and intake rates for different routes of exposure) and the routes of exposure. Most exposure parameters have been selected so that errors occur on the side of human health protection. When several of these upper-bound values are combined in estimating exposure for any one pathway, the resulting risks can be in excess of the 99th percentile and, therefore, outside of the range that may be reasonably expected. Therefore, the consistent selection of upper-bound parameters generally leads to overestimation of the potential risks.

Highly protective exposure parameters used in the FWCUGs for the National Guard Trainee include the assumptions that: (1) a trainee will return to the same AOC for all training over a 25 year enlistment period; (2) the trainee breathing rate is 44 m^3/day (versus a normal breathing rate of 20 m^3/day); and (3) trainees are exposed to airborne chemicals as a result of very high dust loading associated with potential dust generation during use of heavy equipment (e.g., tanks) driven on hard dry ground 24 hours/day for their entire training period. The last two assumptions strongly impact the FWCUGs for chemicals that are primarily toxic via the inhalation pathway. For example, in reality, for a portion of the year, there is no dust loading due to precipitation (i.e., during much of the training time there is mud present). The National Oceanic and Atmospheric Administration lists the mean precipitation days with precipitation >1 mm for the Cleveland area as 115 days/year.

Toxicity Values. The toxicity of chemicals is under constant study and values change from time to time. The toxicity values used in the calculation of the FWCUGs were the most recent values available at the time of those calculations (September 2008). These values are designed to be conservative and provide an upper-bound estimate of risk.

The toxicity and mobility of many inorganic chemicals in the environment is dependent on the chemical species present. Two important examples are arsenic and chromium. Inorganic arsenic, arsenite (As+3) and arsenate (As+5), are the most toxic arsenic species, with As+3 being more toxic than As+5. Methylated arsenic, such as monomethylarsonic acid and dimethylarsinic acid, are less toxic; arsenic compounds, such as arsenocholine and arsenobetaine, are considered to be non-toxic (Pongratz 1998). The toxicity values used in developing the FWCUGs are for inorganic arsenic; however, these values do not distinguish between arsenite and arsenate.

Chromium is generally present in the environment as either the trivalent (Cr+3) or hexavalent (Cr+6) species, with the trivalent form generally being more stable and, therefore, more common. FWCUGs are available for both hexavalent chromium and trivalent chromium. Trivalent chromium has not been shown to be carcinogenic. It is an essential micronutrient but can be toxic at high doses (i.e.,

above the reference dose used to calculate the FWCUG). The FWCUG for trivalent chromium is based on non-cancer effects. Hexavalent chromium is much more toxic than trivalent chromium. It is classified as a "known human carcinogen" and may also cause non-cancer effects. The cancer URF for hexavalent chromium published in IRIS is based on epidemiological data on lung cancer in workers associated with chromate production. Workers in the chromate industry are exposed to both trivalent and hexavalent compounds of chromium. The cancer mortality in the study used to establish the URF was assumed to be due to hexavalent chromium. It was further assumed that hexavalent chromium constituted no less than one-seventh of the total chromium in air that the workers were exposed to. As noted in IRIS, the assumption that the ratio of hexavalent to trivalent chromium was 1:6 in this study may lead to a sevenfold underestimation of risk when using this URF to evaluate exposure to hexavalent chromium alone.

To avoid the underestimation of risk, selection of the FWCUG for chromium includes a step that compares the maximum concentration of hexavalent chromium detected in chromium speciation samples to a FWCUG adjusted to represent only hexavalent chromium. The lowest and most conservative FWCUG for hexavalent chromium is for the National Guard Trainee (16.4 mg/kg), and is based on a cancer URF calculated using a chromate mixture containing 14% hexavalent chromium (USEPA 2010b). Since the study used as the basis for the cancer URF included workers exposed to both trivalent and hexavalent chromium, the FWCUG must be adjusted to represent only hexavalent chromium. One-seventh, or 14%, of the National Guard Trainee FWCUG [(16.4mg/kg)/7 = 2.3 mg/kg] is appropriate for evaluation of hexavalent chromium alone. Concentrations of hexavalent chromium in chromium speciation samples that are less than or equal to 2.3 mg/kg indicate that hexavalent chromium is not present above the hexavalent chromium FWCUGs, and supports use of the trivalent chromium FWCUGs for evaluation of total chromium results.

Hexavalent chromium was not detected in two of the three chromium speciation samples collected at Anchor Test Area. In the third speciation sample, hexavalent chromium was detected at 1.1 mg/kg, which was 5.3% of total chromium measured in this sample. Since hexavalent chromium was detected in one of three speciation samples at less than 14% of total chromium, and did not exceed the most conservative FWCUG adjusted downward to represent only hexavalent chromium, the chromium speciation results show that hexavalent chromium is not of concern at Anchor Test Area; the trivalent chromium FWCUG is appropriate for the identification of COCs. The use of speciation samples to identify the appropriate FWCUG minimizes uncertainty.

7.2.5.3 Uncertainty in the Identification of COCs

The SOR is used to account for the potential additive effects from exposure to multiple chemicals that can cause the same effect or affect the same target organ. Cancer risk is assumed to be additive for all carcinogens. Non-cancer risk is assumed to be additive for chemicals with similar sites of toxicological action. In the event that any combination of COPCs results in synergistic effects, risk might be underestimated. Conversely, the assumption of additivity would overestimate risk if a combination of COPCs acted antagonistically. It is unclear whether the potential for chemical interaction has been inadvertently understated or overstated. It seems unlikely the potential for chemical interaction contributes significant uncertainty to the conclusions of the risk assessment.

Arsenic was identified as the only COC in surface soil at Anchor Test Area because the concentration at ISM sample location ATAss-005M exceeds the FWCUG and the RVAAP background concentration. An evaluation of the natural variability of arsenic in Ohio soil indicates the measured arsenic concentration in this sample may reflect the high end of natural variation. Because arsenic exceeds both the RVAAP background concentration and the FWCUG, and uncertainty associated with detected inorganic chemicals near the high end of the background concentration, arsenic was identified as a COC at this location for evaluation in the FS.

All of the sources of uncertainty described in the previous sections potentially impact the identification of COCs. The exposure and toxicity values used to calculate FWCUGs, as well as the approach for identifying SRCs, COPCs, and ultimately COCs based on the FWCUGs, were designed to ensure the over-estimation rather than under-estimation of potential risks. The uncertainty assessment attempts to put the identified COCs in perspective to facilitate informed risk management decisions for the AOC.

7.2.6 Summary of HHRA

This HHRA documents COCs that may pose potential health risks to human receptors resulting from exposure to contamination at the AOC. This HHRA was conducted as part of the RI/FS and was based on the approach described in the FWCUG Report. The components of the risk assessment (receptors, exposure media, EPCs, and results) are summarized below.

Receptors. RVAAP is a controlled-access facility and is fenced and patrolled by security personnel. Anchor Test Area is located in the south central portion of RVAAP and is currently inactive. The OHARNG projected future land-use for Anchor Test Area is Military Use and Training. The representative receptor is the National Guard Trainee, and per the FWHHRAM, this constitutes the Risk Assessment Land Use of Dismounted Training – Digging. National Guard Training, in conjunction with the evaluation of agricultural-residential land use to evaluate an unrestricted land use option, form the basis for identifying COCs. Residential Land Use, specifically the Resident Farmer, is included to evaluate COCs for unrestricted land use at the AOC as required by the CERCLA process and as outlined in the FWHHRAM.

Exposure Media. Media of concern at Anchor Test Area are surface and subsurface soil. Surface soil is defined as 0-1 ft bgs (i.e., shallow surface soil) for the Resident Farmer receptor and 0-4 ft bgs (i.e., deep surface soil) for the National Guard Trainee receptor. Because the upper (0-1 ft bgs) portion of this interval was characterized using ISM sampling and the deeper (1-4 ft bgs) portion was characterized using discrete samples from soil borings, the two intervals that make up deep surface soil for the National Guard Trainee are evaluated separately. Subsurface soil is defined as 4-7 ft bgs for the National Guard Trainee and 1-13 ft bgs for the Resident Farmer.

Estimation of EPCs. For shallow surface soil (0-1 ft bgs), the EPC is the detected concentration in each ISM sample collected at the AOC. EPCs were not used for deep surface and subsurface soil because no COPCs were identified in these intervals.

Results of Human Health Risk Assessment. Arsenic was the only COC identified in ISM surface soil (0-1 ft bgs) samples for the National Guard Trainee and Resident Farmer receptors at ISM sample location ATAss-005M. No COPCs or COCs were identified in deep surface soil (1-4 ft bgs) or either of the subsurface soil aggregates. COCs identified for each potential exposure medium and receptor are summarized in Table 7-9.

Table 7-9. Summary of COCs Identified for Evaluation in the FS

Media	Chemical of Concern	Cleanup Goal (mg/kg)
National Guard Trainee		
Shallow Surface Soil (0-1 ft bgs)	Arsenic	31[a]
Resident Farmer		
Shallow Surface Soil (0-1 ft bgs)	Arsenic	15.4[b]

[a] Cleanup goal (CUG) for arsenic in surface soil for the National Guard Trainee is the precedent CUG of 31 mg/kg from the *Interim Record of Decision for the Remediation of Soils at Load Lines 1 through 4* (USACE 2007a) and the *Record of Decision for Soil and Dry Sediment for RVAAP-12 Load Line 12* (USACE 2009b) as documented in Table 5-12 of the *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010a).
[b] CUG for residential land use is the facility-wide background concentration for RVAAP published in the *Phase II Remedial Investigation Report for Winklepeck Burning Grounds* (USACE 2001b) because the Facility-Wide Cleanup Goal (FWCUG) for the Resident Farmer is less than the background concentration.
bgs = below ground surface
COC = Chemical of Concern
mg/kg = milligrams per kilogram

Based on these results, the recommended path forward is to evaluate removal alternatives to address arsenic in surface soil ISM sample area ATAss-005M.

7.3 ECOLOGICAL RISK ASSESSMENT

7.3.1 Introduction

The ERA presented in this RI/FS report follows a unified approach of methods integrating U.S. Army, Ohio EPA, and USEPA guidance. This ERA approach is consistent with the general approach by these agencies and primarily follows the Level I Scoping ERA, Level II Screening ERA, and Level III Baseline ERA outlined in the *Guidance for Conducting Ecological Risk Assessments* (Ohio EPA 2008), with specific application of components from the FWERWP, *Risk Assessment Handbook Volume II: Environmental Evaluation* (USACE 2010b), and *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments* (USEPA 1997). The process implemented in this RI/FS report combines these guidance documents to meet requirements of the Ohio EPA and U.S. Army, while following previously accepted methods established for RVAAP. This unified approach resulted from coordination between USACE and Ohio EPA during the summer of 2011.

7.3.1.1 Scope and Objective

Anchor Test Area contains habitat (soil) that supports ecological receptors. This terrestrial habitat has known chemical contamination (MKM 2007). Habitat types and an assessment of the ecological resources found at Anchor Test Area are presented in subsequent subsections. Additionally, the results of a historical ERA (an ERS performed as part of the Characterization of 14 AOCs) and the PBA08 RI are provided to determine whether a qualitative ERA (Level I) is sufficient, based on the quality of the habitat and the presence of contamination, or whether a more rigorous ERA (Level II or Level III) should be conducted.

7.3.2 Level I: Scoping Level Ecological Risk Assessment

The ERA method for Level I follows guidance documents listed in Section 7.3.1. Level I is intended to evaluate if the AOC had past releases or the potential for current contamination, and if there are important ecological resources on or near the AOC.

The following two questions should be answered at the completion of the Level I ERA:

1. **Are current or past releases suspected at the AOC?** Current or past releases are determined by evidence that chemical contaminants or COPECs are present.

2. **Are important ecological resources present at or in the locality of the AOC?** Important ecological resources are defined in the *Guidance for Conducting Ecological Risk Assessments* (Ohio EPA 2008) and *Technical Document for Ecological Risk Assessment: Process for Developing Management Goals* (BTAG 2005). If an AOC has contaminants but lacks important ecological resources, this indicates the ERA process can stop at Level I. Contamination and important ecological resources must both be present to proceed to a Level II Screening Level ERA.

7.3.2.1 AOC Description and Land Use

Anchor Test Area is approximately 0.5 acres in size. The habitat is forest and is not large enough to completely support cover and food for small birds and mammals that typically require approximately 1 acre (USEPA 1993). The habitat area at Anchor Test Area represents approximately 0.002% of the 21,683 acres at RVAAP.

The planned land use at Anchor Test Area is National Guard Training including dismounted training. U.S. Army natural and ecological resource management activities may apply if habitat disturbance occurs.

7.3.2.2 Evidence of Historical Chemical Contamination

The goal of the historical ERA (MKM 2007) was to identify COPECs in soil for Anchor Test Area. The historical ERA followed instructions presented in the *Guidance for Conducting Ecological Risk Assessments* (Ohio EPA 2003) and consisted of the first two of six steps listed in Figure III of the FWERWP (USACE 2003c). These two steps identify the evaluation procedures, which were used to determine AOC-related COPECs. First, the MDC of each chemical was compared to its respective facility-wide background concentration. Chemicals were not considered COPECs if the MDC was below the background concentration. For all chemicals detected above background concentrations, the MDC was compared to an ESV. The hierarchy of screening values was based on the guidance included in the FWERWP and *Guidance for Conducting Ecological Risk Assessments* (Ohio EPA 2003). In addition to the ESV comparison, it was determined if the chemical was a persistent, bioaccumulative, and toxic (PBT) chemical. Chemicals were retained as COPECs if they exceeded background concentrations and the ESV, if the chemical exceeded background concentrations and had no toxicity information, or if the chemical was considered a PBT chemical.

Groundwater was not included in the historical ERA. As explained in Section 3.2.2 of the FWERWP, groundwater is not considered an exposure medium to ecological receptors because these receptors are unlikely to contact groundwater greater than 5 ft bgs. As discussed in Section 3.4.2, the water table in the unconsolidated zone occurs at approximately 8.7-13.0 ft bgs. In addition, sediment and surface water do not exist at Anchor Test Area.

The historical ERA table for soil is included in Appendix Table H-1 and contains the following:

- Frequency of detection;
- Average concentration;
- MDC;
- Background concentration;
- SRC determination;
- ESVs used for COPEC determinations;
- PBT chemical identification;
- COPEC determination; and
- COPEC rationale.

Historical COPECs for Soil. The historical ERA conducted as part of the Characterization of 14 AOCs reported twenty-three chemicals in surface soil (0-1 ft) at Anchor Test Area (MKM 2007). Of the twenty-three chemicals detected, four chemicals (calcium, magnesium, potassium, and sodium) were essential nutrients and were excluded from the COPEC screen. Twelve detected inorganic chemicals and one organic chemical were determined to be SRCs because they either exceeded background concentrations or did not have an associated background concentration for comparison. Four of the inorganic chemicals (arsenic, chromium, manganese, and mercury) were identified as COPECs because detected concentrations were above ESVs (Table 7-10).

Table 7-10. Summary of Historical COPECs per the Characterization of 14 AOCs

Group	COPEC	Shallow Soil	Sediment	Surface Water
Inorganic chemicals	Arsenic	X	--	--
	Chromium	X	--	--
	Manganese	X	--	--
	Mercury	X	--	--

Adapted from Table LL5-17 from the Characterization of 14 AOCs (MKM 2007)
COPEC = Chemical of Potential Ecological Concern
-- = Chemical not identified as a COPEC in this data set
X = Quantitative COPEC, exceeds ecological screening value (ESV)

Historical COPECs for Sediment. No historical sediment samples were collected at the AOC.

Historical COPECs for Surface Water. No historical surface water samples were collected at the AOC.

Summary of Historical ERA. As explained previously, a historical ERA was performed to determine COPECs at Anchor Test Area in surface soil. HQs were not calculated in this evaluation. The COPECs are summarized in Table 7-10. Based on the identification of COPECs, ecological risk in surface soil was predicted in the historical investigation, and an additional investigation was recommended for Anchor Test Area (MKM 2007).

Additional information about contamination is shown in Section 7.3.2.5 and Appendix Tables H-2 and H-3.

7.3.2.3 Ecological Significance

Sources of data and information about the ecological resources at Anchor Test Area include the *Integrated Natural Resource Management Plan* (INRMP) (OHARNG 2008), *Facility-Wide Biological and Water Quality Study* (USACE 2005b) where applicable, previous characterization work (e.g., Characterization of 14 AOCs), and visits to the AOC conducted for the PBA08 RI.

One of the two key questions to answer in the Level I Scoping ERA is whether there are ecologically important and especially ecologically significant resources at Anchor Test Area. Ecological importance is defined as a place or resource that exhibits unique, special, or other attributes that makes it of great value. Ecological significance is defined as an important resource found at an AOC or in its vicinity that is subject to contaminant exposure. The underlying basis for this distinction can be found in *Ecological Significance and Selection of Candidate Assessment Endpoints* (USEPA 1996a), stated as follows:

> "A critical element in the ERA process requires distinguishing important environmental responses to chemical releases from those that are inconsequential to the ecosystem in which the site resides: in other words, determining the ecological significance of past, current, or projected site-related effects."

Important places and resources identified by the U.S. Army and Ohio EPA (Appendix Table H-4) include wetlands, terrestrial areas used for breeding by large or dense aggregations of animals, habitat known to be used by threatened or endangered species, state land designated for wildlife or game management, locally important ecological places, and state parks. Both the U.S. Army and Ohio EPA recognize 17 important places and resources. The U.S. Army recognizes an additional 16 important places (BTAG 2005), and the Ohio EPA recognizes another 6 important places (Ohio EPA 2008). In total, there are 39 important places. Presence or absence of an ecologically important place can be determined by comparing environmental facts and characteristics of Anchor Test Area with each of the important places and resources listed in Appendix Table H-4.

Ecological significance is defined as an important resource found at an AOC or in its vicinity that is subject to contaminant exposure. Thus, any important places and resources listed in Appendix Table H-4 are elevated to ecologically significant when present on the AOC and there is exposure to contaminants. For all 39 important places and resources, it is relatively clear that the ecological place or resource is either present or absent on the AOC; therefore, the decision process is objective. If no important or significant resource is present at an AOC, the evaluation will not proceed to Level II regardless of the presence of contamination. Instead, the Level I Scoping ERA would acknowledge there are important ecological places but that those resources are not ecologically significant and no further evaluation is required.

Management Goals for the AOC. Regardless of whether the evaluation is concluded at Level I or continues to Level II, there is another level of environmental protection for Anchor Test Area through the natural resource management goals expressed in the INRMP (OHARNG 2008). The U.S. Army is required to monitor ecological conditions to maintain or enhance the current integrity of the natural resources and ecosystem. While the monitoring focuses on the potential adverse effects from training activities, degradation from contamination would be noticed as well.

Some Natural Resources Management Goals of OHARNG (listed in Appendix Table H-5) benefit Anchor Test Area. For example, Goal 1 states the natural resources need to be managed in a compatible way with the military mission, and Goal 5 requires the U.S. Army to sustain usable training lands and natural resources. These management goals help detect degradation (whether from training activities or historical contamination). While the applicability of the remaining 9 management goals to Anchor Test Area varies, all of the management goals are intended to either monitor, maintain, or enhance the facility's natural resources and ecosystem. While these goals are for the management of all types of resources at and near Anchor Test Area, they do not affect the decisions already concluded in Section 7.3.2.3 concerning the presence or absence of important or significant ecological places or resources at Anchor Test Area.

Important Places and Resources. Ecological importance means a place or resource that exhibits a unique, special, or other attribute that makes it of great value. Examples of important places and resources include wetlands, terrestrial areas used for breeding by large or dense aggregations of animals, and habitat of state-listed or federally-listed species. An important resource becomes

significant when found on an AOC and there is contaminant exposure. There is no important/significant ecological resource at Anchor Test Area (Appendix Table H-4).

Terrestrial Resources. Anchor Test Area is dominated by terrestrial resources, as described below.

Habitat Descriptions and Species. The INRMP and AOC visits showed that Anchor Test Area consists of one predominate vegetation type (Photograph 7-1 and Figure 7-1) which is a forest alliance consisting of green ash (*Fraxinus pennsylvanica),* American elm (*Ulmus americana*), and hackberry (*Celtis occidentalis* and *laevigata*) (OHARNG 2008). This characterization was originally established by a vegetation study using aerial photography and field verification (USACE 1999) and was later used in the INRMP (OHARNG 2008). The habitat was assessed to be healthy and functioning based on May 2008 (Photograph 7-1) and November 2008 observations by biologists. Functional habitat was determined by noting the absence of large bare spots and dead vegetation or other obvious visual signs of an unhealthy ecosystem.

Photograph 7-1. May 2008 Habitat Conditions at Anchor Test Area

The forest includes small open areas and understory that result in multi-story vegetation. This, in turn, provides various layers of vegetation for foraging height preferences of birds, mammals, insects, and other organisms. An additional photograph of the habitat is provided in Appendix H.

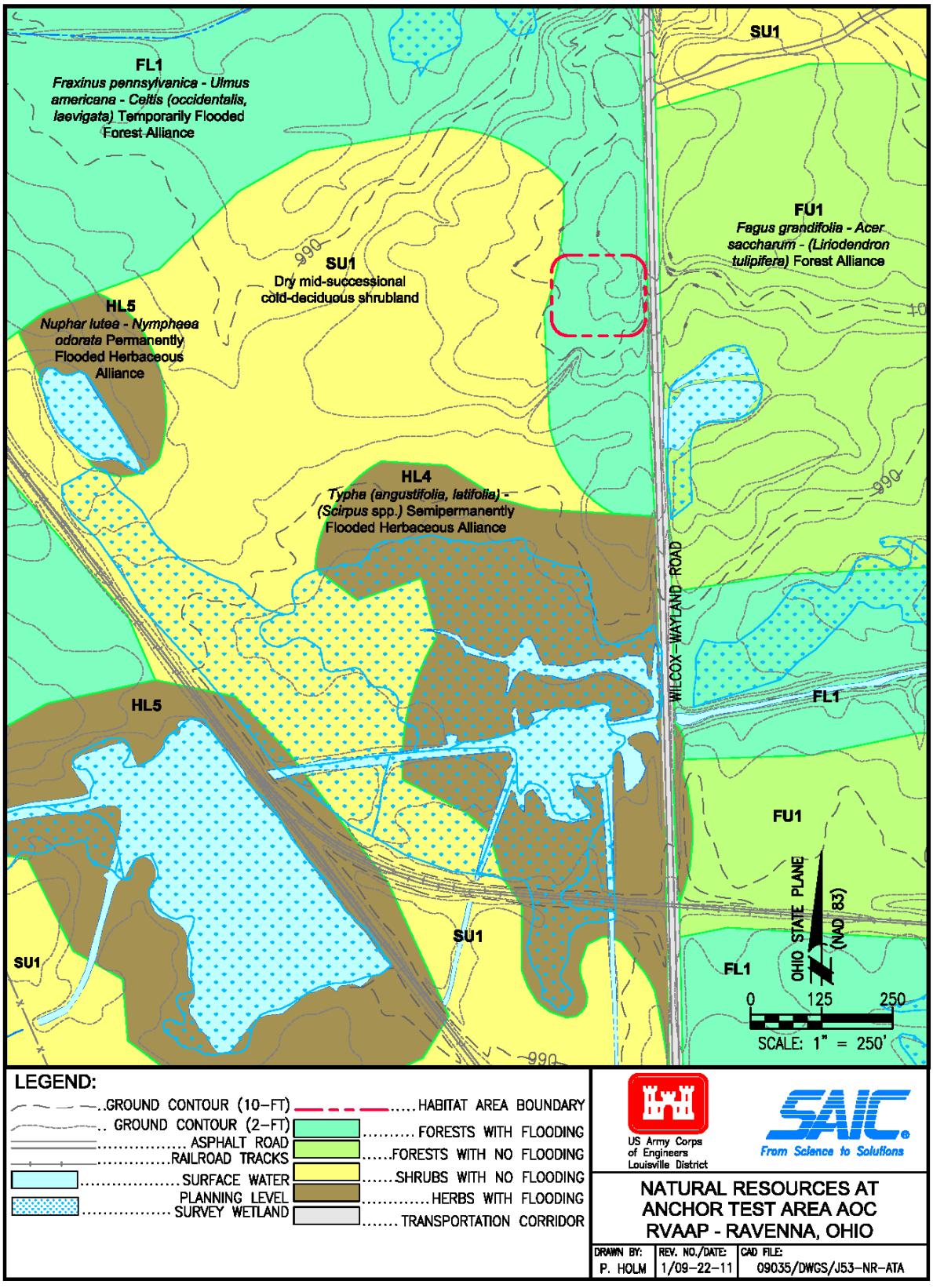

Figure 7-1. Natural Resources (OHARNG 2008) Inside and Near Habitat Area at Anchor Test Area

Threatened and Endangered and Other State-listed or Federally-listed Species. There are currently no federally-listed species or critical habitat on Camp Ravenna. Anchor Test Area has not been previously surveyed for state-listed or federally-listed species; however, there have been no documented sightings of threatened or endangered species at the AOC (OHARNG 2008).

Other Terrestrial Resources. While there are no other known important features, there are other resources at or near Anchor Test Area (e.g., vegetation, animals) that interact in their ecosystems and support nutrient cycling and energy flow. For example, wildlife such as wild turkey (*Meleagris gallopavo*) and white-tailed deer (*Odocoileus virginianus*) could use the area. The INRMP provides information about species and habitat surveys at RVAAP (e.g., timber and ecological succession) (OHARNG 2008). Aside from the natural resource map in the INRMP (OHARNG 2008) as shown in Figure 7-1, there are no other reported surveys of habitats and animals at Anchor Test Area.

Aquatic Resources. Wetlands are important habitats with water-saturated soil or sediment whose plant life can survive saturation. Wetlands are home to many different species and are chemical sinks that can serve as detoxifiers and natural water purifiers. However, there are no wetlands at Anchor Test Area to perform this and related functions. There are no ditches, streams, and ponds at Anchor Test Area.

Ecosystem and Landscape Roles and Relationships. There are four spatial areas evaluated to assess the ecosystem and landscape roles and relationships: the actual AOC, the vicinity of the AOC, the entire RVAAP, and the northeastern or ecoregion of Ohio. Information about the first spatial area (the actual AOC) was provided in the section above on terrestrial and aquatic resources.

Vicinity of the AOC. Three vegetation communities border Anchor Test Area (Figure 7-1) and include a variety of forest and shrubland communities. There are no apparent differences in habitat quality of these plant communities inside or outside of the AOC. For example, the dominant forest alliance [green ash (*Fraxinus pennsylvanica*), American elm (*Ulmus americana*), and hackberry (*Celtis occidentalis* and *laevigata*)] located at Anchor Test Area extends at least 300 ft beyond the northern and southern boundaries of the AOC. Directly west of the AOC lies dry, mid-successional, cold-deciduous shrubland. Across Wilcox-Wayland Road to the east is another forest alliance that consists of American beech (*Fagus grandifolia*), sugar maple (*Acer saccharum*), and American tulip tree (*Liriodendron tulipifera*). The types and qualities of habitat are not unique and can be found at many other areas at RVAAP.

The nearest stream is approximately 700 ft south of Anchor Test Area. Figure 7-1 shows there are no wetlands located at the AOC. The closest recorded wetland is a small area approximately 100 ft to the southeast (Figure 7-1); however, it is located east of Wilcox-Wayland Road and is in a different watershed than Anchor Test Area. The next closest wetland is approximately 400-500 ft south of the AOC. By definition, this wetland is considered an important ecological resource (U.S. Army 2005); however, it is located far enough from the AOC that it is unlikely to be impacted by contamination present at Anchor Test Area.

The closest recorded state-listed or federally-listed species [Woodland jumping mouse (*Napaeozapus insignis*)] is located approximately 2,400 ft northeast of the AOC (Table 7-11). The next closest state-listed or federally-listed species [Golden-winged warbler (*Vermivora chrysoptera*)] is located about 2,900 ft east of the AOC.

Table 7-11 shows no wetlands connected to Anchor Test Area. Additionally, no beaver dams, 100-year floodplains, or biological/water quality sampling stations are in or near the AOC. The nearest resources of these types are more than 2,000 ft away.

Table 7-11. Survey of Proximity to the AOC of Various Ecological Resources

Natural Resource	Inside Habitat Area	Near the AOC	Distances to Nearest Resource[a] and Comments
Wetlands (Planning Level Survey)	None	Yes, 100 ft to the southeast but no connection	Others around 400-500 ft and greater distances, to the south and north
State-listed or Federally-listed species	None	None	2,400 ft northeast 2,900 ft east See text for species names
Beaver dams	None	None	Nearest beaver dams located 2,400 ft northeast and 3,300 ft north
100-year floodplain	None	None	Nearest 3,100 ft north
Stream sampling[b]	None	None	Nearest stream station located about 4,000 ft southeast
Pond sampling[b]	None	None	Nearest pond station located about 3,800 ft southeast

[a] Measurements of distance and direction are taken from the nearest boundary of the AOC to the resource being measured.
[b] Stream and pond sampling refers to *Facility-Wide Biological and Water Quality Study 2003* (USACE 2005b).
AOC = Area of Concern

The Entire RVAAP. Anchor Test Area is considered small (0.5 acres in size). This represents approximately 0.002% of the entire area of RVAAP (approximately 21,683 acres in size). There is approximately 2,280 acres of the green ash, American elm, and hackberry forest at RVAAP (OHARNG 2008), representing about 10.5% of the forest vegetation types at RVAAP. Thus, this type of resource is abundant and is not unique to Anchor Test Area.

Ecoregion. In the area surrounding RVAAP, forests occupy a high percentage of the terrain. For example, Ohio's forests cover approximately 8,000,000 acres or 30% of the state (USDA 2009). The Erie/Ontario Drift and Lake Plain ecoregion (USEPA 2011) is located in the northeastern part of Ohio that contains the forest alliance of green ash (*Fraxinus pennsyvlvanica*), American elm (*Ulmus americana*), and hackberry (*Celtis occidentalis* and *laevigata*). This ecoregion is made up of rolling to level terrain and low lime drift and lacustrine deposits. Lakes, wetlands, and swampy streams occur where stream networks converge or where the land is flat and clayey (USEPA 2011). The same ecoregion and forest alliance is found throughout northeastern Ohio and also in Cuyahoga, Geauga, Mahoning, Portage, Stark, Summit, and Trumbull counties that surround RVAAP. The United States Forest Service (USFS) has a Forest Inventory Data Online tool that was queried for the forest alliance in the surrounding counties in or near RVAAP (USFS 2011). The hackberry (*Celtis occidentalis* and *laevigata)* was not individually found in this query, but other sources (Kloss 2011 and ODNR 2011) verified the presence of the hackberry in these counties. In 2009, a total of 94,000 acres of green ash

and American elm forest type were present in Cuyahoga, Geauga, Mahoning, Portage, Stark, Summit, and Trumbull counties (USFS 2011). Thus, the forest alliance at Anchor Test Area is also found in the surrounding counties in the ecoregion of northeastern Ohio.

In summary, the forest type of green ash, American elm, and hackberry is found at and in the vicinity of Anchor Test Area. This forest type is in abundance at RVAAP and the larger surrounding local ecoregion. Thus, there is no known unique resource at Anchor Test Area that cannot be found in the immediate vicinity of the AOC, RVAAP, or in a large part of the ecoregion of Northeastern Ohio.

7.3.2.4 Evaluation of Historical Chemical Contamination and Ecological Significance

There are four historical COPECs identified in the historical ERA as part of the Characterization of 14 AOCs: arsenic, chromium, manganese, and mercury (Section 7.3.2.2). The number of historical COPECs is low (Appendix Table H-1). Section 7.3.2.3 provides information about the lack of important/significant ecological resources at the AOC. There is no wetland, no state-listed or federally-listed species, and no other important/significant ecological resources, as defined by the U.S. Army and Ohio EPA. Section 7.3.2.6 summarizes the chemicals and resources to demonstrate there is a small amount of contamination at Anchor Test Area, but no important/significant ecological resources are present.

7.3.2.5 Evaluation of Current Chemical Contamination

This section provides information about methods and results of the analysis of current and historical chemical contamination.

The screening level approach to evaluate sample results from the PBA08 RI followed a similar approach as used in the historical ERA. Section 5.1 details chemical concentration data. The PBA08 RI evaluation uses ISM soil data collected during the PBA08 RI and ISM soil data used in the historical ERA. The PBA08 RI included collection of surface soil (0-1 ft bgs) samples at locations different from the historical soil sample locations (see Figures 5-2 and 5-3). This ERA uses ESVs that follow the revised *Ecological Risk Assessment Guidance* (Ohio EPA 2008), as provided in Appendix Table H-2. Ratios of MDC to ESV are used to determine the integrated COPECs that result from the combined current and historical data sets. A ratio greater than 1 suggests a possible environmental consequence. Any chemicals with ratios greater than 1 are identified as integrated COPECs. Also, a PBT compound becomes an integrated COPEC.

Integrated COPECs in Surface Soil (0-1 ft bgs). Five chemicals (calcium, iron, magnesium, potassium, and sodium) were essential nutrients and were excluded as SRCs, as described in Section 5.1. Ten detected inorganic chemicals and four organic chemicals were determined to be SRCs because they either exceeded background concentrations or did not have an associated background concentration for comparison. Of the 14 SRCs, 4 chemicals exceeded the ESVs and are identified as integrated COPECs (Table 7-12). The calculated ratio of MDC to ESV is shown in Table 7-12 for each integrated COPEC. Appendix Table H-3 presents the details of the ESV comparisons.

Table 7-12. Summary of Integrated COPECs

COPEC	Maximum Concentration (mg/kg)	ESV (mg/kg)	Ratio of Maximum to ESV	Comments
Arsenic	54	18	3	None
Chromium	42.3	26	1.6	None
Manganese	1500	220	6.8	Next highest ratio at 6.8x
Mercury	0.062	0.00051	121.6	Highest ratio at 122x

Table excludes nutrients
COPEC = Chemical of Potential Ecological Concern
ESV = Ecological Screening Value
x = Multiplier

For Anchor Test Area, the integrated findings regarding COPECs confirm the historical findings about COPECs presented in Table 7-10. Specifically, there are a few inorganic chemicals exceeding background concentrations and ecological screening levels.

Current Sediment. No sediment was available for collection at Anchor Test Area.

Current Surface Water. No surface water was available at Anchor Test Area.

Summary of ERA Findings. There are four integrated COPECs identified in soil at Anchor Test Area: arsenic, chromium, manganese, and mercury. Mercury has the highest MDC-to-ESV ratio and is of highest concern. Sediment or surface water do not exist at the AOC so no COPECs were identified.

7.3.2.6 Summary and Recommendations of Scoping Level Ecological Risk Assessment

Based on information from the Characterization of 14 AOCs and the PBA08 RI, there are four integrated soil COPECs at Anchor Test Area: arsenic, chromium, manganese, and mercury. The ratios of the maximum concentrations to conservative ESVs range from 122 for mercury to 2 for chromium. Thus, there are a small number of integrated COPECs. There is no sediment or surface water at Anchor Test Area.

The information in Section 7.3.2.3 about ecological resources at Anchor Test Area was compared to the list of important ecological places and resources (Appendix Table H-4). None of the 39 important places were present, and there is nothing ecologically significant at Anchor Test Area. Environmental management goals and objectives of OHARNG are applicable to Anchor Test Area, as presented in Appendix Table H-5. Some of the management goals benefit Anchor Test Area, including Goal 1 that requires management of natural resources to be compatible with military mission, and Goal 5 that requires the U.S. Army to sustain usable training lands and natural resources.

The forest type at Anchor Test Area is green ash, American elm, and hackberry on approximately 0.5 acres. This same type of habitat is found adjacent to the AOC and elsewhere at RVAAP (OHARNG 2008). The habitat is also found in the larger surrounding local ecoregion (USFS 2011 and Kloss 2011). Thus, there is no known unique resource at Anchor Test Area.

Accordingly, although there is contamination at Anchor Test Area, the AOC has no important/significant ecological places or resources. Consequently, the ERA for Anchor Test Area can conclude with a Level I Scoping Level Risk Assessment with the recommendation of NFA from the ecological risk perspective.

7.3.3 Conclusions

There is a small amount of chemical contamination present in the soil at Anchor Test Area. There are four integrated soil COPECs (arsenic, chromium, manganese, and mercury). There is no sediment or surface water at the AOC. There are no important/significant ecological resources at the Anchor Test Area and its 0.5 acres of habitat according to U.S. Army and Ohio EPA lists of important places and resources. Further, the green ash, American elm, and hackberry forest type is found elsewhere near the AOC, at RVAAP, and in the ecoregion. Per guidance from the Ohio EPA, there is sufficient justification to recommend NFA for Anchor Test Area from the ecological perspective.

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8.0 REMEDIAL INVESTIGATION CONCLUSIONS AND RECOMMENDATIONS

8.1 INTRODUCTION

The PBA08 RI for Anchor Test Area presents a detailed analysis of historical and newly acquired environmental data. The following sections present an overview of the major findings of the nature and extent of contamination, modeling of contaminant fate and transport, HHRA, and ERA. An updated CSM incorporating all available information is presented to integrate results of the RI. The CSM denotes, based on available data, where source areas occur, the mechanisms for contaminant migration from source areas to receptor media (e.g., surface water and groundwater), exit pathways from the AOC, and where COCs occur that may require further evaluation in an FS. This section concludes with recommendations with respect to the need for any further characterization under the RI phase of work and, for each of the media evaluated in the RI, whether to proceed to the FS phase of the RI/FS process.

8.2 SUMMARY OF DATA USED IN THE REMEDIAL INVESTIGATION

Available data collected at Anchor Test Area represent conditions of the AOC over a span of approximately 6 years and were collected using discrete and ISM. Quality assured sample data were collected during investigations completed in 2004 during the Characterization of 14 AOCs and 2010 during the PBA08 RI. There have been no substantial changes in physical conditions at the AOC (e.g., construction, demolition, and grading) during the intervening time between 2004 and 2010. A systematic process was used to evaluate data usability in the RI based on project DQOs, data age and representativeness with respect to current AOC conditions, and sampling methods. All discrete and ISM data collected in 2004 and 2010 were deemed usable for this RI/FS report. Section 5.1.4 summarizes the results of the data usability evaluation for all available Anchor Test Area samples.

ISM surface soil data collected in 2004 and 2010 were used to screen for SRCs and for conducting the risk assessments. All available discrete and ISM data were incorporated into the contaminant nature and extent evaluation to identify potential temporal and longitudinal trends. All available discrete and ISM surface soil data were incorporated into fate and transport modeling. For subsurface soil, only 2010 discrete sample data were available for use in all evaluations performed in this RI. No surface water or sediment data exist due to absence of these media at the AOC.

8.3 SUMMARY OF NATURE AND EXTENT

The highest concentrations of inorganic SRCs were observed in historical ISM sample locations ATAss-005M and ATAss-001M (former sand pit), and at PBA08 RI sample locations ATAss-015M and ATAss-016M. These samples also contained the greatest number of inorganic SRCs per sample above background concentrations; although two of the six total SRCs present in these samples have background concentrations of 0 mg/kg (cadmium and thallium). Four SVOCs [2-methylnaphthalene, benzo(b)fluoranthene, bis(2-ethylhexyl)phthalate, and naphthalene] were identified as SRCs at the

AOC, with three of these SVOCs [2-methylnaphthalene, bis(2-ethylhexyl)phthalate, and naphthalene] occurring at one sample location (ATAss-015M). No explosives, propellants, VOCs, pesticides, or PCBs were identified as SRCs in surface soil at this AOC.

Soil overburden is greater than 13 ft in thickness across the AOC, with groundwater encountered at approximately 8.7-13 ft bgs. Detectable concentrations of cadmium and silver were ubiquitous in the subsurface soil samples, although no spatial or vertical trends were evident and both metals occurred within a narrow range of concentrations. One SVOC [bis(2-ethylhexy)phthalate] and two VOCs (methylene chloride and toluene) were detected at location ATAsb-008. All three organic chemicals were detected in the 4-7 ft bgs interval, and one VOC (toluene) was detected in the 1.0-4.0 ft bgs interval. Explosives, propellants, and PCBs were not detected in any subsurface soil sample.

8.4 SUMMARY OF CONTAMINANT FATE AND TRANSPORT

Contaminant fate and transport evaluation included a soil screening analysis to determine initial CMCOPCs, an analysis of contaminant leaching and migration from soil to groundwater (vertical transport) to determine final CMCOPCs, and an analysis of contaminant migration from beneath the source area to a downgradient receptor (horizontal transport) to determine CMCOCs.

A soil screening analysis identified initial CMCOPCs having concentrations exceeding initial screening criteria (MCLs/RSLs, facility-wide background concentrations, and SSSLs) and predicted travel times to reach the water table (7 ft bgs for Anchor Test Area initial CMCOPCs) of less than 1,000 years. One inorganic chemical (arsenic) and one organic chemical (naphthalene) had maximum concentrations and travel times that exceeded these screening criteria. The maximum concentrations of these initial CMCOPCs occurred at two separate ISM areas within Anchor Test Area: ATAss-005M contained the maximum concentrations of arsenic, and ATAss-015M contained the maximum concentration of naphthalene. These chemicals were retained as initial CMCOPCs and further evaluated using vertical transport modeling (SESOIL).

SESOIL modeling predicted the maximum concentration of arsenic (0.953 mg/L) in leachate below its source area would exceed the screening criteria (facility-wide background concentration of 0.0117 mg/L) at a future point in time. Therefore, arsenic was designated as a final CMCOPC and evaluated using lateral transport modeling (AT123D). Naphthalene (maximum leachate concentration of 0.00184 mg/L as compared to its MCL/RSL of 0.00620 mg/L) was excluded as a final CMCOPC for further evaluation based on the SESOIL modeling results. AT123D modeling predicted the maximum concentration of arsenic (0.0473 mg/L) to exceed the screening criteria facility-wide background concentration (0.0117 mg/L) beneath the source area and was modeled to its downgradient receptor (wetland area southeast of the AOC). Modeling of lateral migration from beneath the source area approximately 200 ft to the downgradient receptor showed the maximum predicted concentration of arsenic (0.000587 mg/L) will not exceed the MCL/RSL, FWCUG, or facility-wide background concentration. On this basis, arsenic was eliminated from further consideration as a CMCOC.

Based on the soil screening analyses and fate and transport modeling, all SRCs found in the surface and subsurface soil samples and evaluated through the stepwise fate and transport screening evaluation presented here are eliminated as posing future impacts to groundwater.

8.5 SUMMARY AND CONCLUSIONS OF THE HUMAN HEALTH RISK ASSESSMENT

The HHRA identified COCs and conducted risk management analysis to determine those COCs requiring evaluation in an FS based on potential risk to human receptors. The representative human receptor scenario for the HHRA is the National Guard Trainee based on the OHARNG projected future land-use for Anchor Test Area. The risk assessment also included an evaluation of the Resident Farmer receptor scenario to evaluate an unrestricted land use option. Media evaluated in the HHRA are surface soil and subsurface soil. Surface water and sediment are not present at this AOC.

Arsenic was identified as a COC in ISM shallow surface soil (0-1 ft bgs) sample location ATAss-005M for both the National Guard Trainee and the Resident Farmer receptors. No COPCs and no COCs were identified in deep surface soil (1-4 ft bgs) or subsurface soil (4-7 ft bgs) for the National Guard Trainee. No COPCs and no COCs were identified in subsurface soil (1-13 ft) for the Resident Farmer receptor.

8.6 SUMMARY AND CONCLUSIONS OF THE ECOLOGICAL RISK ASSESSMENT

There are four integrated soil COPECs based on the historical and current information at Anchor Test Area: arsenic, chromium, manganese, and mercury. The number of COPECs is low. Ecological resources at Anchor Test Area were compared to the list of important ecological places and resources. None of the 39 important places were present, and there is nothing ecologically significant at Anchor Test Area. The ERA summarizes the chemicals and resources in detail to demonstrate there is a small amount of contamination at the Anchor Test Area, but no important or significant ecological resources are present. Consequently, the ERA for Anchor Test Area concludes with a Level I Scoping Level Risk Assessment, with a recommendation of NFA from the ecological risk perspective.

8.7 UPDATED CONCEPTUAL SITE MODEL

The preliminary CSM for Anchor Test Area is summarized in Section 3.7. The CSM is updated in this section to incorporate results of the PBA08 RI. Elements of the CSM include:

- Primary and secondary contaminant sources and release mechanisms;
- Contaminant migration pathways and discharge or exit points;
- Potential receptors; and
- Data gaps and uncertainties.

Due to simplicity of this AOC, an illustrated summary of the CSM is not included. Reference is made to previous figures to assist in visualizing the key summary points of the revised CSM.

8.7.1 Primary and Secondary Contaminant Sources and Release Mechanisms

No primary contaminant sources (e.g., operational facilities or retention basins) exist at Anchor Test Area. The remnant sandpit, earthen blast barriers, and soil are considered as secondary sources of contamination. No perennial drainage conveyance exists in immediate vicinity of the AOC; therefore, surface water and sediment are not present. Surface soil only within sample area ATAss-005M (Figure 5-2) contained contaminants (arsenic) at sufficient concentration to be considered a human health COC. No other COCs were identified within the AOC. No COCs were identified in subsurface soil below 1 ft bgs for any receptor.

The primary mechanisms for release of contaminants from secondary sources at Anchor Test Area are the following:

- Erosion of soil matrices with sorbed contaminants and mobilization in overland surface water storm runoff during heavy rainfall conditions;
- Dissolution of soluble contaminants and transport in intermittent surface water runoff; and
- Contaminant leaching to groundwater.

8.7.2 Contaminant Migration Pathways and Exit Points

8.7.2.1 Surface Water Pathways

Migration of contaminants from soil sources via surface occurs primarily by: (1) movement of the particle-bound contaminants in surface water runoff; and (2) transport of dissolved chemicals in surface water. Upon reaching portions of surface water conveyances where flow velocities decrease, particle-bound contaminants will settle out as sediment accumulation. Sediment-bound contaminants may become re-suspended and migrate during storm events or may partition to dissolved phase in surface water. As noted in Section 3.0, there are no well-defined natural surface water conveyances or engineered storm water drainage systems exiting the AOC; therefore, the migration pathway is limited to diffuse overland flow through heavily vegetated terrain. Surface soil data indicate minimal dispersal of contaminants from the sample area ATAss-005M to the surrounding vicinity via this pathway given that arsenic concentrations were below background concentrations in the ISM sample delineating this secondary source (ATAss-016M, Figure 5-2).

8.7.2.2 Groundwater Pathways

The estimated direction of groundwater flow at Anchor Test Area is to the east based on RVAAP facility-wide potentiometric data. The groundwater table occurs within unconsolidated glacial overburden at depths of 8.7-13 ft bgs, based on 2010 soil boring data. Contaminant leaching pathways from soil to the water table are through interbedded clayey to sandy glacial till. Fate and

transport modeling results indicate that only arsenic may leach from surface soil in sample area ATAss-005M and migrate to groundwater below the source at concentrations above MCLs/RSLs and FWCUGs. However, the maximum predicted concentration in the groundwater table at the downgradient receptor (wetland area southeast of the AOC) is predicted to be less than the facility-wide background concentration. Additionally, migration of arsenic is likely to be attenuated within the unconsolidated zone because of moderate to high retardation factors within the unconsolidated zone. Based on the modeling results, migration of contaminants via the groundwater pathway is not expected.

8.7.3 Potential Receptors

As identified in the HHRA, the representative receptor under the RAFLU is the National Guard Trainee. An unrestricted land use receptor (i.e., Resident Farmer) was also evaluated in the HHRA for comparative purposes. Arsenic was identified as a COC within surface soil (0-1 ft bgs) for this land use scenario. Figure 5-2 illustrates those portions of the AOC that exceed the National Guard Trainee FWCUG for arsenic in surface soil. No COCs were identified for soil below 1 ft bgs for either the National Guard Trainee or the Resident Farmer. Ecological receptors at the AOC are potentially exposed to contaminants in surface soil (0-1 ft bgs). Aquatic habitat is not present on the AOC, which precludes exposures to aquatic organisms.

8.7.4 Uncertainties

Uncertainties are inherent in the CSM depending on the density and availability of data. The CSM for Anchor Test Area is overall well defined using existing data, and major data gaps do not remain to be resolved. However, some uncertainties with respect to groundwater for the CSM remain for the AOC.

A groundwater monitoring well network does not currently exist at the AOC. Groundwater quality data are not available and uncertainty exists with respect to groundwater flow directions and hydraulic gradient. As summarized above, fate and transport modeling does not indicate that the one identified CMCOPC (arsenic) will leach from soil and impact groundwater quality at the downgradient receptor at concentrations above facility-wide background concentrations. Further evaluation of groundwater at the AOC will be performed in a separate report.

8.8 RECOMMENDATIONS OF THE REMEDIAL INVESTIGATION

Based on the PBA08 RI results, soil, sediment, and surface water at Anchor Test Area has been adequately characterized, and the recommended path forward is to proceed to a FS. The FS will evaluate remedial alternatives to address arsenic contamination in shallow surface soil at ISM sampling areas ATAss-005M. The potential exposure medium and land use receptors associated with arsenic are summarized in Table 8-1, along with recommended CUGs for each of these land uses. Sediment and surface water does not exist at the AOC.

Analyses of remedial alternatives for soil are not warranted to protect ecological receptors based on the ERA. Analyses of remedial alternatives are not warranted for subsurface soil greater than 1 ft depth based on the absence of human health COCs. Soil remediation to protect groundwater resources is also not warranted based on contaminant leaching and fate and transport modeling results.

Table 8-1. Summary of COCs Identified for Evaluation in the FS

Media	Chemical of Concern	Cleanup Goal (mg/kg)
National Guard Trainee		
Shallow Surface Soil (0-1 ft bgs)	Arsenic	31[a]
Resident Farmer		
Shallow Surface Soil (0-1 ft bgs)	Arsenic	15.4[b]

[a] Cleanup goal (CUG) for arsenic in surface soil for the National Guard Trainee is the precedent CUG of 31 mg/kg from the *Interim Record of Decision for the Remediation of Soils at Load Lines 1 through 4* (USACE 2007a) and the *Record of Decision for Soil and Dry Sediment for RVAAP-12 Load Line 12* (USACE 2009b) as documented in Table 5-12 of the *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010a).
[b] CUG for residential land use is the facility-wide background concentration for RVAAP published in the *Phase II Remedial Investigation Report for Winklepeck Burning Grounds* (USACE 2001b) because the Facility-Wide Cleanup Goal (FWCUG) for the Resident Farmer is less than the background concentration.
bgs = below ground surface
COC = Chemical of Concern
FS = Feasibility Study
mg/kg = milligrams per kilogram

9.0 REMEDIAL ACTION OBJECTIVE, CLEANUP GOALS, AND VOLUME CALCULATIONS

This section presents the RAO, appropriate CUGs for remedial actions, and volume estimates of media requiring remediation to attain specific land use scenarios. The RAO is in accordance with the NCP and CERCLA RI/FS guidance, specifying receptors, exposure routes, and desired exposure levels. CUGs establish acceptable exposure levels protective of human health and the environment and consider potential land uses. The CUGs also provide the basis for screening, evaluating, and selecting a remedial alternative.

9.1 REASONABLE AND ANTICIPATED FUTURE LAND USE

The RAFLU for Anchor Test Area is National Guard Training with Digging. Consequently, the representative receptor at this AOC is the National Guard Trainee. The future land use and the selection of the appropriate receptors are discussed in more detail in Section 7.2.3.

Residential Land Use is not anticipated at RVAAP or at this AOC; however, an unrestricted land use scenario is developed and evaluated. Remediation to achieve CUGs protective of the Resident Farmer and the National Guard Trainee is protective of all potential RVAAP receptors, as established in the FWCUG Report. For the purposes of this RI/FS report, a combination of the most restrictive CUGs established for the National Guard Trainee and the Resident Farmer provides the requisite level of protectiveness for unrestricted land use.

9.2 REMEDIAL ACTION OBJECTIVE

The RAO for Anchor Test Area is to prevent: (1) National Guard Trainee exposure to identified COCs in soil above CUGs; (2) adverse ecological effects from previous AOC activities; and (3) negative groundwater impacts from contaminant migration from source media (e.g., soil).

Conclusions of the ERA (Section 7.3) indicate remedial actions are not warranted to specifically protect ecological receptors. Fate and transport modeling (Section 6.0) indicates soil remediation to protect groundwater is not warranted. Remedial actions specific to groundwater media at Anchor Test Area will be evaluated in a separate report. It is noted that anticipated remedial activities to protect the human receptor will benefit ecological resources and reduce the potential for contaminant migration to groundwater. Additionally, sediment and surface water do not exist at this AOC; consequently, there is no remediation required for these media.

9.3 REMEDIAL ACTION CLEANUP GOALS

Based on an evaluation of ISM sample results and EPCs calculated from discrete samples, the HHRA recommends CUGs to support the remedial alternative selection process for remediation. Tables 9-1 and 9-2 list the media, COCs, and CUGs associated with achieving the National Guard Training Land Use and an unrestricted land use (as represented by the National Guard Trainee and Resident Farmer

receptors). Arsenic in shallow surface soil is a COC for both land use scenarios. Remediation of arsenic in shallow surface soil to the CUG of 15.4 mg/kg will attain the RAO for the National Guard Trainee, as well as for unrestricted land use (combined National Guard Trainee and Resident Farmer receptors).

Table 9-1. Cleanup Goals for National Guard Training Land Use

Media	Chemical of Concern	Cleanup Goal (mg/kg)
Shallow Surface Soil (0-1 ft bgs)	Arsenic	31
Deep Surface Soil (1-4 ft bgs)	None	None
Subsurface Soil (4-7 ft bgs)	None	None

bgs = below ground surface
mg/kg = milligram per kilogram

Table 9-2. Cleanup Goals for National Guard Training and Residential Land Uses

Media	Chemical of Concern	Cleanup Goal (mg/kg)
Shallow Surface Soil (0-1 ft bgs)	Arsenic	15.4
Deep Surface Soil (1-4 ft bgs)	None	None
Subsurface Soil (1-13 ft bgs)	None	None

bgs = below ground surface
mg/kg = milligram per kilogram

9.4 VOLUME CALCULATIONS OF MEDIA REQUIRING REMEDIATION

Tables 9-3 and 9-4 provide the basis for volume estimations for areas requiring remediation. The contamination within shallow surface soil is assumed to be no more than 1 ft bgs. Figure 9-1 shows areas requiring remediation for the National Guard Training and Residential Land Use scenario.

Table 9-3. Estimated In Situ Soil Volume Requiring Remediation

ISM Sample Location	Media	Arsenic Concentration (mg/kg)	Surface Area (ft^2)	Treatment Interval (ft bgs)	In Situ Volume (ft^3)
National Guard Training and Residential Land Use					
ATAss-005M	Shallow Surface Soil	54	225	0-1	225

ISM = incremental sample methodology

Table 9-4. Estimated Volumes of Soil Requiring Remediation

Land Use Scenario and Media	In situ		In situ with Constructability[1]		Ex situ[1,2]	
	Volume (ft^3)	Volume (yd^3)	Volume (ft^3)	Volume (yd^3)	Volume (ft^3)	Volume (yd^3)
National Guard Training and Residential Land Uses ~ Surface Soil	225	9	281	11	338	14

Constructability accounts for over excavation, sloping of sidewalls, and addresses limitations of removal equipment. The in situ volume is increased by 25% for a constructability factor.
[1]Includes 25% constructability factor
[2]Includes 20% swell factor

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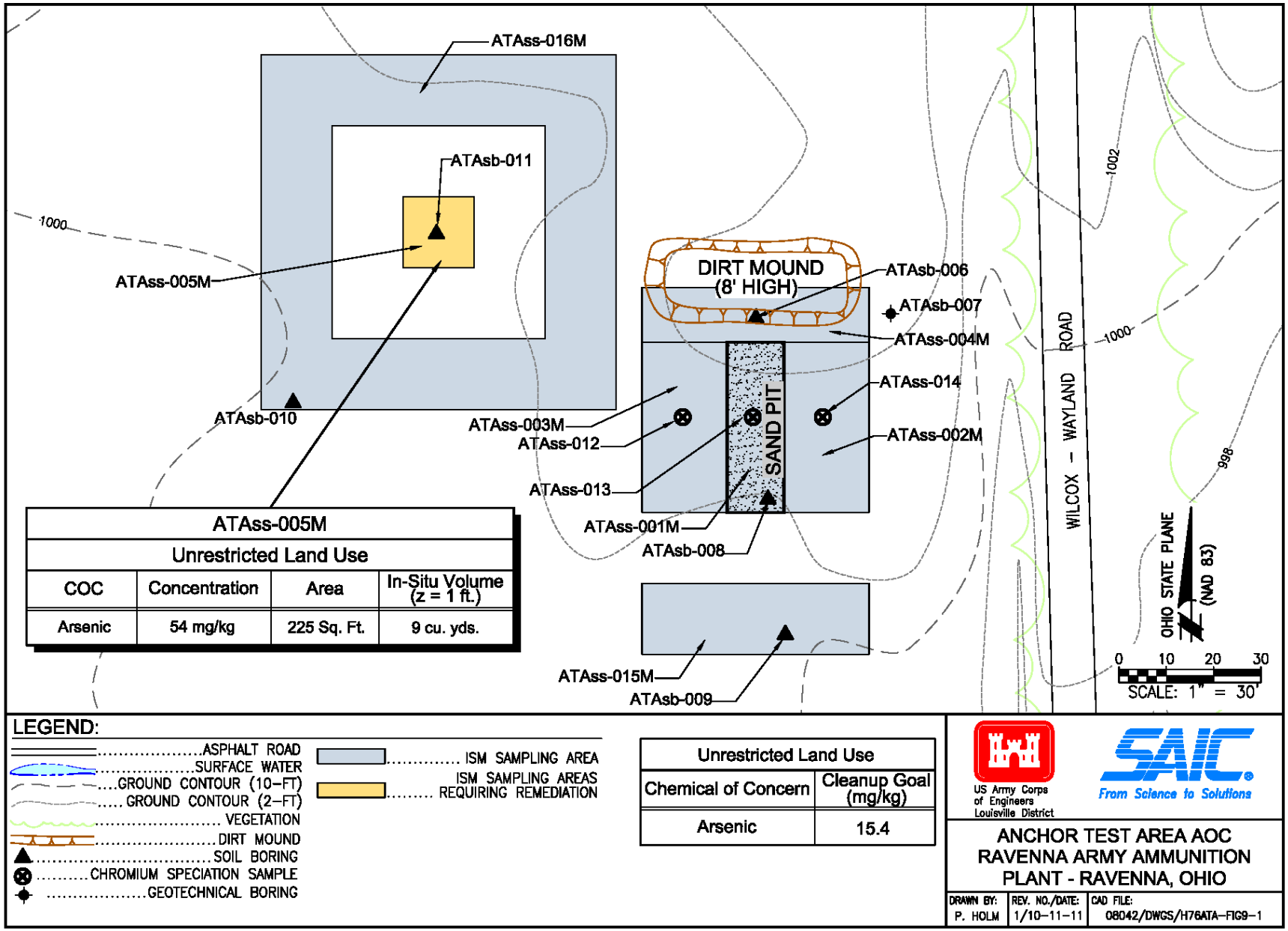

Figure 9-1. National Guard Training and Resident Farming Land Uses, Estimated Extent of Soil Requiring Remediation

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10.0 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

10.1 INTRODUCTION

CERCLA Section 121 specifies remedial actions must comply with requirements or standards under federal or more stringent state environmental laws that are "applicable or relevant and appropriate to the hazardous substances or particular circumstances at the AOC." Inherent in the interpretation of ARARs is the assumption that protection of human health and the environment is ensured. This section summarizes potential federal and state chemical-, location-, and action-specific ARARs for the potential remedial actions at the AOC.

ARARs include those federal and state regulations that are designed to protect the environment. Applicable requirements are "those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting law that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a CERCLA site" [40 Code of Federal Regulations (CFR) 300.5]. USEPA has stated in the NCP that applicable requirements are those requirements that would apply if the response action were not taken under CERCLA.

Relevant and appropriate requirements are "those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting law that, while not applicable to a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a CERCLA site, address problems or situations sufficiently similar to those encountered at the CERCLA site such that their use is well suited to the particular site" (40 CFR 300.5).

In the absence of federal or state-promulgated regulations, there are many criteria, advisories, guidance values, and proposed standards that are not legally binding but may serve as useful guidance for setting protective cleanup levels. These are not potential ARARs but are to-be-considered guidance [40 CFR 300.400(g)(13)].

CERCLA remedial response actions at an AOC must comply only with the substantive requirements of a regulation [CERCLA Section 121(e)]. Substantive requirements are those that pertain directly to the actions or conditions at an AOC, while administrative requirements facilitate their implementation. USEPA recognizes that certain administrative requirements (e.g., consultation with state agencies, reporting) are accomplished through state involvement and public participation. These administrative requirements should also be observed if they are useful in determining cleanup standards at the AOC (55 CFR 8757).

Although remedial actions for AOCs at National Priorities List (NPL) sites must comply only with the substantive requirements of federal or state environmental regulations, the Ohio Revised Code does not provide a similar permit waiver for actions conducted under the Ohio EPA Remedial Response Program Policy. The Ohio EPA's DERR Policy DERR-00-RR-034 states, "it has been DERR's policy to require responsible parties to acquire and comply with all necessary permits, including the substantive and administrative requirements." However, a DFFO was entered into on June 10, 2004, that provided certain exemptions from the Ohio Administrative Code (OAC) administrative requirements and required groundwater monitoring and remediation at RVAAP to be performed under the CERCLA process. The DFFO includes provisions for compliance resulting in the potential negation of all provided exemptions within the DFFO in the event non-compliant activities are identified.

10.2 POTENTIAL ARARS

USEPA classifies ARARs as chemical-specific, action-specific, and location-specific to provide guidance for identifying and complying with ARARs (USEPA 1988):

- Chemical-specific ARARs are health- or risk-based numerical values or methodologies which, when applied to site-specific conditions, allow numerical values to be established. These values establish the acceptable amount or concentration of a chemical that may be found in, or discharged to, the ambient environment (USEPA 1988).

- Action-specific ARARs are rules, such as performance or design or other activity-based rules, which place requirements or limitations on actions.

- Location-specific ARARs are rules that place restrictions on the concentration of hazardous substances or the conduct of activities solely because they occur in special locations (USEPA 1988).

As explained in the following paragraph, rules from each of these categories are ARARs only to the extent that they relate to the degree of cleanup.

CERCLA Section 121 governs cleanup standards at CERCLA sites. ARARs originate in the subsection of CERCLA that specifies the degree of cleanup at each AOC, CERCLA Section 121(d). In Section 121(d)(2), CERCLA expressly directs that ARARs are to address specific contaminants of concern at each AOC, specifying the level of protection to be attained by any chemicals remaining at the AOC. CERCLA Section 121(d)(2) provides that with respect to hazardous substances, pollutants, or contaminants remaining on-site at the completion of a remedial action, an ARAR is:

> "any standard, requirement, criteria, or limitation under any Federal environmental law … or any promulgated standard, requirement, criteria, or limitation under a State environmental or facility siting law that is more stringent than any Federal standard, requirement, criteria, or limitation."

CERCLA Section 121(d)(2) further provides that the remedial action attains a level of control established in rules determined to be ARARs.

In some cases, most ARARs will be chemical-specific. Action- or location-specific requirements will be ARARs to the extent that they establish standards addressing COCs that will remain at the AOC. In addition, CERCLA Section 121(d)(1) directs that remedial actions taken to achieve a degree of cleanup that is protective of human health and the environment are to be relevant and appropriate under the circumstances presented by the release. Accordingly, any chemical-, action-, or location-specific requirements will be ARARs to the extent that they ensure the degree of cleanup will be protective of human health and the environment under the circumstances presented by the release.

In summary, chemical-, action-, or location-specific requirements will be ARARs to the extent that they establish standards protective of human health and the environment for chemicals that will remain on-site after the remedial action, and to the extent that they ensure a degree of cleanup that is protective of human health and the environment under the circumstances presented by the release.

10.2.1 Potential Chemical-Specific ARARs

The environmental medium evaluated in this FS is soil. COCs were identified in soil for receptors representing an unrestricted land use scenario. A review of the regulations indicates there are no potential chemical-specific ARARs for any of the contemplated alternatives due to the media and COCs. Potential chemical-specific ARARs are listed in Table 10-1.

10.2.2 Potential Action-Specific ARARs

Under the No-Action Alternative, no activities would be conducted at the AOC; therefore, no Action-Specific ARARs are identified for this alternative.

As discussed in Section 11.0, a portion of the alternatives evaluated include potential excavation and disposal of contaminated environmental media at the AOC. Implementation of this alternative triggers potential ARARs associated with land disturbance and emission controls. The OAC 3745-15-07 requires that nuisance air pollution emissions be controlled. This includes the control of potential fugitive dust from soil handling excavation activities. In addition, any construction (e.g., soil disturbance activities that would encompass over 1 acre in size) would trigger the storm water requirements found at 40 CFR Part 450. These requirements mandate that erosion and sedimentation control measures be designed and implemented to control erosion and sediment run-off.

Because excavation would include the generation and management of contaminated media, the requirements of the Resource Conservation and Recovery Act (RCRA) would be considered potential ARARs for this activity. The RCRA requirements mandate that a generator must determine whether a material is (or contains in the case of environmental media) a hazardous waste under OAC 3745-52-11. If a material is determined to be or contain a listed hazardous waste, or exhibits a hazardous

waste characteristic, additional management requirements under RCRA must be followed by an ARAR under CERCLA.

These requirements include the manner in which hazardous waste is stored, treated, transported, and disposed. These RCRA requirements are generally not considered to be chemical-specific ARARs because they do not relate directly to the degree of cleanup, or to specific chemicals. In addition to the substantive requirements associated with the management and storage of material that is also RCRA hazardous waste (or found to contain such waste), some RCRA requirements prescribe standards for disposal of hazardous material. These include: (1) land disposal restrictions (LDRs) prohibiting disposal of specific chemicals until they are treated to a specified level, or by a specific treatment technology; and (2) minimum technical requirements (MTRs) for land disposal units.

USEPA cautions that LDRs should not be used to determine site-specific cleanup levels for soil (USEPA 2002). The purpose of LDRs is to require appropriate treatment of RCRA hazardous waste that is to be land disposed of to minimize short and long-term threats to human health or the environment based upon available technology. Performing treatment to meet LDR standards is different from the CERCLA approach to remediation, which is analyzing risk and then developing soil cleanup standards based on the risk present, and may result in soil cleanup levels that are different from those of a risk-based approach. Nevertheless, if RCRA hazardous waste is generated from the CERCLA action and are land disposed of on-site, the material must meet the standards established in the LDRs.

In order for LDRs to be triggered as potential ARARs, RCRA hazardous waste must be present. This requires: (1) that soil contains contaminants that either derive from RCRA-listed waste, or that exhibits a characteristic of RCRA hazardous waste; and (2) that soil is managed in a way that "generates" hazardous waste. Several methods of soil management that do not "generate" hazardous waste and so do not trigger LDRs are available for use. These methods include the AOC approach, use of a staging pile, use of a storage or treatment corrective action management unit (CAMU), or use of a temporary unit (TU).

If soil is managed in a manner that generates hazardous waste, such as removing it to an above-ground container, and then redepositing the soil within the land unit for disposal, LDRs become potential ARARs. LDRs attach to the waste at the time it is removed from the unit under an AOC approach, or at the time the soil is excavated and lifted out of the unit. Potential LDR ARARs in Ohio are variances from treatment standards in OAC Section 3745-700-44, LDR standards for contaminated debris in OAC Section 3745-47, Universal Treatment Standards (UTS) in OAC Section 3745-270-48, and Alternative Standards for Contaminated Soil in OAC Section 3745-270-49.

Ohio has adopted the alternative soil treatment standards as promulgated by USEPA in its Phase IV LDR rule, effective August 1998. The rules provide that if RCRA hazardous waste is present, the material must meet one of two sets of LDRs before being disposed of in a land unit: (1) the UTS; or (2) the contaminated soil (technology-based treatment) standards promulgated in Phase IV of the LDRs, whichever is greater. Or, if a generator so chooses, he may use the generic treatment standards

in OAC Section 3745-270-40 which apply to all hazardous waste. Only the alternative soil treatment standards are explained in this document. Under the alternative soil treatment standards, all soil subject to treatment must be treated as follows:

1. For non-metals, treatment must achieve 90% reduction in total chemical concentration [primary chemical for which the waste is characteristically hazardous as well as for any organic or inorganic underlying hazardous constituent (UHC)], subject to item three below.

2. For inorganic chemicals, carbon disulfide, cyclohexanone, and methanol, treatment must achieve 90% reduction in chemical concentrations as measured in leachate from the treated media [tested according to the Toxicity Characteristic Leaching Procedure (TCLP)] or 90% reduction in total chemical concentrations (when a inorganic chemical removal treatment technology is used), subject to item 3 below.

3. When treatment of any chemical subject to treatment to a 90% reduction standard would result in a concentration less than 10 times the UTS for that chemical, treatment to achieve chemical concentrations less than 10 times the UTS is not required. This is commonly referred to as "90% capped by 10xUTS."

4. USEPA and Ohio EPA have established a site-specific variance from the soil treatment standards, which can be used when treatment to concentrations of hazardous chemicals greater (i.e., higher) than those specified in the soil treatment standards minimizes short- and long-term threats to human health and the environment. In this way, on a case-by-case basis, risk-based LDR treatment standards approved through a variance process could supersede the soil treatment standards. Any variance granted cannot rely on capping, containment, or other physical or institutional controls.

If CAMUs are used as disposal units at the AOC, the design and treatment standards established at OAC Section 3745-57-72 will be potentially relevant and appropriate to the response action. Only CAMU-eligible waste can be disposed of in a CAMU. CAMU-eligible waste includes hazardous and non-hazardous waste that are managed for implementing cleanup, depending on the Director's approval or prohibition of specific waste or waste streams. Use of a CAMU for disposal does not trigger LDRs or MTRs as long as the standards specified in the rule are observed. The Director will incorporate design and treatment standards into a permit or order. Design standards include a composite liner and a leachate collection system designed and constructed to maintain less than a 30 cm depth of leachate over the liner. A composite liner entails a system consisting of two components; each component has detailed specifications and installation requirements. The Director may approve alternate requirements if he can make the findings specified in the rule. Treatment standards are similar to LDR standards for contaminated soil, although alternative and adjusted standards may be approved or required by the Director, as long as the adjusted standard is protective of human health and the environment.

Table 10-1. Potential Action-Specific ARARs

Media and Citation	Description of Requirement	Potential ARAR Status	Standard
Prohibition of air pollution nuisances (e.g., fugitive dust) OAC Section 3745-15-07	These rules prohibit a release of nuisance air pollution that endangers health, safety, or welfare of the public or causes personal injury or property damage.	Applies to any activity that could result in the release of a nuisance air pollutant. This would include dust from excavation or soil management processes.	Any person undertaking an activity is prohibited from emitting nuisance air pollution.
Storm water requirements at construction sites 40 CFR Part 450	These rules require that storm water controls be employed at construction sites that exceed 1 acre in size.	Applies to any construction activity that exceeds 1 acre in total size.	Persons undertaking construction activities (including grubbing and land clearing) at an AOC where the construction footprint is over 1 acre in size must design and implement erosion and run-off controls.
Generation of contaminated soil or debris OAC Section 3745-52-11	These rules require that a generator determine whether a material generated is a hazardous waste.	Applies to any material that is or contains a solid waste. Must be characterized to determine whether the material is or contains a hazardous waste.	Generators of waste as defined must use prescribed methods to determine if waste is considered characteristically hazardous.
Management of contaminated soil or debris that is or contains a hazardous waste OAC Sections 3745-52-30 through -34	These rules require that hazardous waste be properly packaged, labeled, marked, and accumulated on-site pending on-site or off-site disposal.	Applies to any hazardous waste or media containing a hazardous waste that is generated from on-site activities.	All hazardous waste must be accumulated in a compliant manner that includes proper marking, labeling, and packaging of such waste in accordance with the specified regulations. This includes inspection of containers or container areas where hazardous waste is accumulated on-site.

Table 10-1. Potential Action-Specific ARARs (continued)

Media and Citation	Description of Requirement	Potential ARAR Status	Standard
Acquisition and use of manifests for hazardous waste shipments to off-site treatment, storage, or disposal facilities OAC Sections 3745-52-20 through -23	These rules require that a Uniform Hazardous Waste Manifest be used for any off-site shipment of hazardous waste.	Applies to any shipment of hazardous waste to an off-site facility for treatment, storage, or disposal.	Requires a generator who transports or offers for transportation hazardous waste for off-site treatment, storage, or disposal to prepare a uniform hazardous waste manifest.
Soil contaminated with RCRA hazardous waste OAC Section 3745-400-49 OAC Section 3745-400-48 UTS	These rules prohibit land disposal of RCRA hazardous waste subject to them, unless the waste is treated to meet certain standards that are protective of human health and the environment. Standards for treatment of hazardous waste-contaminated soil prior to disposal are set forth in the two cited rules. Use of the greater of either technology-based standards or UTS is prescribed.	LDRs apply only to RCRA hazardous waste. This rule is considered for ARAR status only upon generation of a RCRA hazardous waste. If any soil is determined to be RCRA hazardous, and if it will be disposed of on-site, this rule is potentially applicable to disposal of the soil.	All soil subject to treatment must be treated as follows: 1) For non-metals, treatment must achieve 90% reduction in total chemical concentration (primary chemical for which the waste is characteristically hazardous as well as for any organic or inorganic UHC), subject to 3 below. 2) For inorganic chemicals, carbon disulfide, cyclohexanone, and methanol, treatment must achieve 90% reduction in chemical concentrations as measured in leachate from the treated media (tested according to the TCLP) or 90% reduction in total chemical concentrations (when a inorganic chemical removal treatment technology is used), subject to 3 below.

Table 10-1. Potential Action-Specific ARARs (continued)

Media and Citation	Description of Requirement	Potential ARAR Status	Standard
			3) When treatment of any chemical subject to treatment to a 90% reduction standard would result in a concentration less than 10 times the UTS for that chemical, treatment to achieve chemical concentrations less than 10 times the UTS is not required. This is commonly referred to as "90% capped by 10xUTS."
Debris Contaminated with RCRA Hazardous Waste OAC Section 3745-400-49 OAC Section 3745-400-47	These rules prescribe conditions and standards for land disposal of debris contaminated with RCRA hazardous waste. Debris subject to this requirement for characteristic RCRA contamination that no longer exhibits the hazardous characteristic after treatment does not need to be disposed of as a hazardous waste. Debris contaminated with listed RCRA contamination remains subject to hazardous waste disposal requirements.	If RCRA hazardous debris is disposed of on-site, these rules are potentially applicable to disposal of the debris.	Standards are extraction or destruction methods prescribed in OAC Section 3745-400-47. Treatment residues continue to be subject to RCRA hazardous waste requirements.

Table 10-1. Potential Action-Specific ARARs (continued)

Media and Citation	Description of Requirement	Potential ARAR Status	Standard
Soil/Debris Contaminated with RCRA Hazardous Waste – Variance OAC Section 3745-400-44	The Director will recognize a variance approved by the USEPA from the alternative treatment standards for hazardous contaminated soil, or for hazardous debris.	Potentially applicable to RCRA hazardous soil, or debris that is generated and placed back into a unit and that will be land disposed of on-site.	A site-specific variance from the soil treatment standards can be used when treatment to concentrations of hazardous chemicals greater (i.e., higher) than those specified in the soil treatment standards minimizes short- and long-term threats to human health and the environment. In this way, on a case-by-case basis, risk-based LDR treatment standards approved through a variance process could supersede the soil treatment standards.

AOC = Area of Concern
ARAR = Applicable and Relevant or Appropriate Requirement
CAMU = Corrective Action Management Unit
CFR = Code of Federal Regulations
LDR = Land Disposal Restriction
MTR = Minimum Technical Requirement
OAC = Ohio Administrative Code
RCRA = Resource Conservation and Recovery Act
TCLP = Toxicity Characteristic Leaching Procedure
UHC = Underlying Hazardous Constituent
USEPA = U.S. Environmental Protection Agency
UTS = Universal Treatment Standard

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10.2.3 Potential Location-Specific ARARs

Location requirements included those established for potential remedial activities conducted within wetlands or within a floodplain area or with respect to sensitive species and habitat. Generally, for wetlands and floodplains, rules require alternatives to remedial activity within the sensitive area be pursued; if that is not feasible, adverse effects from any actions taken within the sensitive area must be mitigated to the extent possible. These requirements do not relate to specific chemicals, nor do they further change the degree of cleanup in the sense of protecting human health or the environment from the effects of harmful substances. Rather, their purpose is to protect the sensitive areas to the extent possible. Under CERCLA Section 121(d), relevance and appropriateness are related to the circumstances presented by the release of hazardous substances, with the goal of attaining a degree of cleanup and control of further releases that ensures protection of human health and the environment. Within the area to be remediated, no sensitive resources (e.g., wetlands) or endangered species (including habitat) have been identified. As such, the requirements associated with such areas or species have not been identified as potential ARARs for the AOC. Due to the physical location of the AOC and identified site conditions, no location-specific ARARs have been identified for this action.

Any action taken by the Federal Government must be conducted in accordance with requirements established under the National Environmental Policy Act (NEPA), Endangered Species Act (ESA), National Historic Preservation Act, and federal and state wetlands and floodplains construction and placement of material considerations, even though these laws and rules do not establish standards, requirements, limitations, or criteria relating to the degree of cleanup for chemicals remaining on-site at the close of the response actions.

11.0 TECHNOLOGY TYPES AND PROCESS OPTIONS

This section identifies and describes the GRAs which may be implemented to achieve the remedial goals. In addition, this section summarizes the remedial technologies and process options available to remediate COCs in media identified in Section 9.0 of this report.

The procedure for identifying and screening potential remedial technologies followed the method established in the USEPA guidance document, *Guidance for Conducting Remedial Investigation/Feasibility Studies under CERCLA* (USEPA 1988). This guidance document provides the framework for identifying and screening all available remedial technologies to the most appropriate technologies available based on the COCs and AOC characteristics (e.g., soil type).

11.1 GENERAL RESPONSE ACTION

GRAs are actions which may be implemented to satisfy the RAO. The actions may be individual or a combination of responses. As shallow surface soil is the only media requiring remediation at this AOC, the following GRAs are applicable and are defined in greater detail in subsequent sections:

- No Action;
- Land use controls (LUCs)/five-year reviews;
- Removal;
- Treatment; and
- Disposal/handling.

11.1.1 No Action

No Action is required for evaluation under the NCP and is the baseline to which other remedial alternatives are compared. No Action may provide an appropriate alternative if no unacceptable risks are present at the AOC. This GRA provides a baseline against which to compare other, more proactive alternatives. No action is taken at the AOC to reduce any hazard to human health or the environment. Any existing actions, such as restrictions or monitoring, are discontinued.

11.1.2 Land Use Controls and Five-Year Reviews

LUCs are non-engineering measures, such as administrative or legal controls, used to prevent or limit exposure to hazardous substances. LUCs do not reduce contaminant volume or toxicity. LUCs are used to supplement engineering controls and are a necessary component of the final remedy.

If LUCs are selected as a component of a remedial alternative achieving National Guard Training Land Use, the effectiveness of the remedy must undergo five-year reviews. The primary goal of the five-year reviews is to evaluate the implementation and performance of the remedy to determine if the remedy is or will be protective of human health and the environment. The five-year reviews are discontinued when the remedy achieves CUGs for unrestricted release.

11.1.3 Removal

Removal of contaminated media from the AOC reduces or eliminates the potential for long-term human and environmental exposure to chemicals exceeding concentrations determined to be protective for a given land use. Removal of soil may be combined with a form of treatment prior to disposal off-site. Removed soil may also be shipped directly without treatment.

11.1.4 Treatment

Treatment is conducted either in-situ or ex-situ to reduce contaminant concentrations to acceptable levels. Common types of treatment include biological, chemical, physical, and thermal. Biological treatment involves using microbes to degrade contaminants. Chemical treatment processes add chemicals to react with contaminants to reduce their toxicity or mobility. Physical processes involve either physically binding the contaminants to reduce mobility or the potential for exposure (e.g., encapsulation), or extracting the contaminant(s) from a medium to reduce volumes. Thermal treatment such as incineration uses high temperatures to volatilize, decompose, or melt contaminants. For soil treated by ex-situ methods, the treatment may allow soil to be placed back into the excavation, or may be treated to reduce the chemical concentration or stabilize the soil prior to off-site disposal.

11.1.5 Disposal and Handling

Disposal and handling involve the final and permanent placement of waste material in a manner protective of human health and the environment. The impacted media is disposed on-site in an engineered facility, or off-site in a permitted or licensed facility, such as a regulated landfill. Similarly, concentrated waste resulting from treatment processes is disposed on-site in a permanent disposal cell or off-site in an approved disposal facility. Aqueous media is treated on-site and disposed off-site at a regulated facility.

Transportation is accomplished utilizing various methods, including truck, railcar, and/or barge.

11.2 INITIAL SCREENING OF TREATMENT TECHNOLOGIES

Table 11-1 summarizes the remedial technologies and process options available for the treatment of COCs in soil. The screening focuses on technology types capable of remediating the COCs present at the AOC and evaluates the implementability of the technology. If treatment technologies are evaluated and retained as potentially viable treatment options for the AOC, the technology will undergo a more detailed evaluation in the following section.

Table 11-1. Initial Screening of Technologies

General Response Actions	Technology Type	Process Options	Description	Screening Results
No Action	None	None	No action is taken at AOC. Current LUCs, access restrictions, and monitoring programs will be discontinued. No remedial technologies implemented to reduce hazards to potential human or ecological receptors.	Retained. Required to be carried through CERCLA analysis.
Institutional Controls	Access Restrictions	LUCs with CERCLA Five-Year Reviews	Implement LUCs at the AOC to restrict access and land use. LUCs will be administered and enforced as part of the Property Management Plan and reviewed in CERCLA Five-Year Reviews. Five-Year Reviews include review of sampling and monitoring plans, results of monitoring activities, interviews, inspections, and reviews of AOC status.	Not retained. A remedial alternative selected for arsenic within ATAss-005M will achieve an unrestricted scenario. Consequently, LUCs and Five-Year Reviews will not be a technology associated with any remedy.
		Fencing	Place fencing around areas of contamination (at a minimum) to restrict access and exposure to contamination left in place.	Not retained. Using a fence at this AOC will inhibit planned future military training activities.
Containment	Capping	Native Soil/Sediment	Uses native soil or sediment to cover contamination and reduce migration by wind and water erosion.	Not retained. Using a native soil/sediment cap in areas with contamination will inhibit planned future military training activities.
		Clay	Clay layers are used to cover contamination and eliminate exposure. Installation of clay cap to limit water infiltration. Susceptible to weathering effects (e.g., cracking)	Not retained. Using clay in areas with contamination will inhibit planned future military training activities.
		Synthetic Liner	A synthetic liner is used to cover contamination and limit exposure. Synthetic material used to limit water infiltration, not as susceptible to cracking as clay.	Not retained. Using a synthetic liner cap in areas with contamination will inhibit planned future military training activities.

Table 11-1. Initial Screening of Technologies (continued)

General Response Actions	Technology Type	Process Options	Description	Screening Results
Containment	Capping	Multi-Layered	Multiple layers of different soil types used to limit water infiltration, not as susceptible to cracking as clay.	Not retained. Using a multi-layered cap in areas with contamination will inhibit planned future military training activities.
		Asphalt/Concrete	Asphalt or concrete layers are used to cover contamination and limit exposure. Additionally, this technology limits water infiltration, susceptible to cracking if not properly maintained.	Not retained. Using an asphalt or concrete cap in areas with contamination will inhibit planned future military training activities.
Removal	Bulk Removal	Excavation and Off-Site Disposal	Contaminated material is removed and transported to permitted off-site treatment and disposal facilities.	Retained.
Treatment	In Situ Biological Treatment	Bioventing	Oxygen is delivered to contaminated unsaturated soil by forced air movement (either extraction or injection of air) to increase oxygen concentrations and stimulate biodegradation.	Not retained. Technology focuses on remediation of media contaminated with petroleum hydrocarbons, solvents, pesticides, and other organic chemicals. Not applicable for inorganic chemicals.
		Enhanced Bioremediation	Indigenous or inoculated micro-organisms (e.g., fungi, bacteria, and other microbes) degrade (metabolize) organic contaminants found in soil and/or groundwater, converting them to innocuous end products.	Not retained. Technology focuses on remediation of media contaminated with petroleum hydrocarbons, solvents, pesticides, and other organic chemicals. Not applicable for inorganic chemicals.
		Phytoremediation	The use of plants to remove, transfer, stabilize, and destroy contaminants in soil and sediment.	Retained.

Table 11-1. Initial Screening of Technologies (continued)

General Response Actions	Technology Type	Process Options	Description	Screening Results
Treatment	In Situ Physical/Chemical Treatment	Chemical Oxidation	Oxidation chemically converts hazardous contaminants to non-hazardous or less toxic compounds that are more stable, less mobile, and/or inert. The oxidizing agents most commonly used are ozone, hydrogen peroxide, hypochlorites, chlorine, and chlorine dioxide.	Not retained. At this time, it is assumed that the areas requiring remediation are not considered hazardous and, therefore, do not need reduction to less toxic compounds for cheaper disposal options.
		Electrokinetic Separation	Removal of inorganics and organic contaminants from low permeability soil, mud, sludge, and marine dredging. Electrokinetic remediation uses electrochemical and electrokinetic processes to desorb, and then remove, inorganic chemicals and polar organic chemicals.	Retained.
		Fracturing	Cracks are developed by fracturing beneath the surface in low permeability and over-consolidated sediment to open new passageways that increase the effectiveness of many in situ processes and enhance extraction efficiencies.	Retained.
		Soil Flushing	Water, or water containing an additive to enhance contaminant solubility, is applied to the soil or injected into the groundwater to raise the water table into the contaminated soil zone. Contaminants are leached into the groundwater, which is then extracted and treated.	Not retained. Although inorganic chemicals can be remediated by this technology, implementation of this technology will not be used since impacting groundwater at this AOC will not be acceptable. Groundwater is still undergoing investigation and determinations if groundwater contaminants exist have yet to be made. Impacting groundwater to treat soil or sediment will not be practical at this point in time.

Table 11-1. Initial Screening of Technologies (continued)

General Response Actions	Technology Type	Process Options	Description	Screening Results
Treatment	In Situ Physical/Chemical Treatment	Soil Vapor Extraction	Vacuum is applied through extraction wells to create a pressure/concentration gradient that induces gas-phase volatiles to be removed from soil through extraction wells. This technology is also known as in situ soil venting, in situ volatilization, enhanced volatilization, or soil vacuum extraction.	Not retained. Technology focuses on remediation of media contaminated with SVOCs, VOCs, and some fuels. Not applicable for inorganic chemicals.
		Solidification/Stabilization	Contaminants are physically bound or enclosed within a stabilized mass (solidification), or chemical reactions are induced between the stabilizing agent and contaminants to reduce their mobility (stabilization).	Retained.
	In Situ Thermal Treatment	Thermal Treatment	Steam/hot air injection or electrical resistance/electromagnetic/fiber optic/radio frequency heating is used to increase the volatilization rate of semi-volatiles and facilitate extraction.	Not retained. Technology focuses on remediation of media contaminated with SVOCs and VOCs. Not applicable for inorganic chemicals.
	Ex Situ Biological Treatment (assuming excavation)	Biopiles	Excavated soil is mixed with soil amendments and placed in aboveground enclosures. It is an aerated static pile composting process in which compost is formed into piles and aerated with blowers or vacuum pumps.	Not retained. Technology focuses on remediation of media contaminated with VOCs and fuel hydrocarbons. Not applicable for inorganic chemicals.
		Composting	Contaminated soil is excavated and mixed with bulking agents and organic amendments such as wood chips and animal and vegetative waste, which are added to enhance the porosity and organic content of the mixture to be decomposed.	Not retained. Technology focuses on remediation of media contaminated with SVOCs. Not applicable for inorganic chemicals.
		Landfarming	Contaminated soil, sediment, or sludge is excavated, applied into lined beds, and periodically turned over or tilled to aerate the waste.	Not retained. Technology focuses on remediation of media contaminated with petroleum hydrocarbons. Not applicable for inorganic chemicals.

Table 11-1. Initial Screening of Technologies (continued)

General Response Actions	Technology Type	Process Options	Description	Screening Results
Treatment	Ex Situ Biological Treatment (assuming excavation)	Slurry Phase Biological Treatment	Aqueous slurry is created by combining soil, sediment, or sludge with water and other additives. The slurry is mixed to keep solids suspended and microorganisms in contact with the soil contaminants. Upon completion of the process, the slurry is dewatered and the treated soil is disposed of.	Not retained. Technology has been successfully used to remediate soil, sludges, and sediment contaminated by explosives, petroleum hydrocarbons, petrochemicals, solvents, pesticides, wood preservatives, and other organic chemicals. Not applicable for inorganic chemicals.
	Ex Situ Physical/Chemical Treatment (assuming excavation)	Chemical Extraction	Waste-contaminated soil and extractant are mixed in an extractor, thereby dissolving the contaminants. The extracted solution is then placed in a separator, where the contaminants and extractant are separated for treatment and further use.	Not retained. Technology focuses remediation of media contaminated with PCBs, VOCs, halogenated solvents, and petroleum waste. Although the technology is considered suitable for inorganic chemicals, clay content (similar to RVAAP soil) reduces efficiency and traces of solvent may remain in treated media.
		Chemical Reduction/Oxidation	Reduction/oxidation chemically converts hazardous contaminants to non-hazardous or less toxic compounds that are more stable, less mobile, and/or inert. The oxidizing agents most commonly used are ozone, hydrogen peroxide, hypochlorites, chlorine, and chlorine dioxide.	Not retained. At this time, it is assumed that the areas requiring remediation are not considered hazardous and, therefore, do not need reduction to less toxic compounds for cheaper disposal options.
		Dehalogenation	Reagents are added to soil contaminated with halogenated organic chemicals. The dehalogenation process is achieved by either the replacement of the halogen molecules or the decomposition and partial volatilization of the contaminants.	Not retained. Technology focuses remediation of media contaminated with halogenated SVOCs and pesticides. Not applicable for inorganic chemicals.

Table 11-1. Initial Screening of Technologies (continued)

General Response Actions	Technology Type	Process Options	Description	Screening Results
Treatment		Soil Washing	Contaminants sorbed onto fine soil particles are separated from bulk soil in an aqueous-based system on the basis of particle size. The wash water may be augmented with a basic leaching agent, surfactant, pH adjustment, or chelating agent to help remove organic chemicals and heavy metals.	Retained.
		Solidification/Stabilization	Contaminants are physically bound or enclosed within a stabilized mass (solidification), or chemical reactions are induced between the stabilizing agent and contaminants to reduce their mobility (stabilization).	Retained.
	Ex Situ Thermal Treatment (assuming excavation)	Hot Gas Decontamination	The process involves raising the temperature of the contaminated equipment or material for a specified period of time. The gas effluent from the material is treated in an afterburner system to destroy all volatilized contaminants.	Not retained. This technology is applicable for process equipment requiring decontamination for reuse. It is also applicable for explosive items, such as mines and shells, being demilitarized (after removal of explosives), or scrap material contaminated with explosives. Not applicable for inorganic chemicals.
		Incineration	High temperatures, 870-1,200 °C (1,600- 2,200 °F), are used to combust (in the presence of oxygen) organic chemicals in hazardous waste.	Not retained. Technology focuses remediation of media contaminated with explosives and hazardous waste, particularly chlorinated hydrocarbons, PCBs, and dioxins. Not applicable for inorganic chemicals.

Table 11-1. Initial Screening of Technologies (continued)

General Response Actions	Technology Type	Process Options	Description	Screening Results
Treatment	Ex Situ Thermal Treatment (assuming excavation)	Pyrolysis	Chemical decomposition is induced in organic material by heat in the absence of oxygen. Organic material is transformed into gaseous components and a solid residue (coke) containing fixed carbon and ash.	Not retained. Technology focuses on remediation of media contaminated with SVOCs and pesticides. Not applicable for inorganic chemicals.
		Thermal Desorption	Waste is heated to volatilize water and organic contaminants. A carrier gas or vacuum system transports volatilized water and organic chemicals to the gas treatment system.	Not retained. Technology focuses on remediation of media contaminated with organic chemicals. Not applicable for inorganic chemicals.

AOC = Area of Concern
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
LUC = Land Use Control
OB = Open Burn
OD = Open Detonation
PCB = Polychlorinated Biphenyl
RVAAP = Ravenna Army Ammunition Plant
SVOC = Semi-volatile Organic Compound
VOC = Volatile Organic Compound

11.3 DETAILED SCREENING OF TECHNOLOGIES

The remedial action technologies retained from the initial screening process are evaluated against criteria of effectiveness, implementability, and cost (three of the NCP balancing criteria). The rationale for either retaining or eliminating treatment options for the AOC is presented and summarized in Table 11-2. The remedial options retained from the detailed screening process develop the remedial alternatives presented in Section 12.0.

11.3.1 Effectiveness

The effectiveness criterion assesses the ability of a remedial technology to protect human health and the environment by reducing the toxicity, mobility, or volume of contaminants. Each technology is evaluated for the ability to achieve the RAO, potential impacts to human health and the environment during construction and implementation, and overall reliability of the technology.

11.3.2 Implementability

Each process option technology is evaluated for implementability in terms of technical feasibility, administrative feasibility, and availability of the necessary material, equipment, and work force. The assessment considers each technology's short- and long-term implementability. Short-term implementability considerations include constructability of the remedial technology, near-term reliability, the ability to obtain necessary approvals with other agencies, and the likelihood of obtaining a favorable community response. Long-term implementability evaluates the ease of undertaking additional remedial actions if necessary, monitoring the effectiveness of the remedy, and operation and maintenance (O&M).

11.3.3 Cost

The cost criterion evaluates each remedial process in terms of relative capital and O&M costs. Costs for each technology are rated qualitatively on the basis of engineering judgment, in terms of cost effectiveness. Therefore, a low cost remedial technology is rated as highly cost effective, while a costly technology is evaluated as being of low cost effectiveness.

Table 11-2. Detailed Screening of Technologies

General Response Actions	Technology Type	Process Options	Effectiveness	Implementability	Cost	Screening Comments
No Action	None	None	Not effective. Exposure to contaminants left in place goes unsupervised and uncontrolled.	Easy to implement. No activities are implemented.	Low cost. No activities driving cost.	Retained. Required by CERCLA
Removal	Bulk Removal	Excavation and Off-Site Disposal	Effective. Once the contaminated soil is removed, contaminant exposure to human health and the environment are eliminated.	Moderately easy to implement. Technology has been implemented at RVAAP in the past.	Moderate cost.	Retained.
Treatment	In Situ Biological Treatment	Phytoremediation	Moderate to low effectiveness. Phytoremediation is designed to address inorganic chemicals; however, the time required to remediate these chemicals is not practical given time constraints to transfer AOC to NGB.	Not easy to implement. The time required for phytoremediation to reduce inorganic chemicals in the soil is not practical given time constraints to transfer AOC to NGB. This technology is currently at the demonstration stage and not widely recognized by regulators. Additionally, concentrations can be hazardous to plants and may be mobilized into groundwater or bioaccumulated in animals.	Moderate cost. The cost effectiveness increases as the remedial footprint increases. The area requiring remediation is small; therefore, there is not optimal cost effectiveness.	Not Retained. The time required for phytoremediation to reduce inorganic chemicals in the soil is not practical given time constraints to transfer AOC to NGB.
	In Situ Physical/Chemical Treatment	Electrokinetic Separation	Moderate to low effectiveness. Maximum effectiveness occurs if the moisture content is 14-18%. Moisture content of soil is 22.5%.	Not easy to implement. Implementability challenges include additions of acids to soil being remediated. Use of this technology coupled with the risk of adding an additional concern to the environment make this technology not feasible.	High cost. Pilot study is required as few previous studies have been implemented. Pilot study and implementation costs are high relative to quantity of soil requiring remediation.	Not Retained. Although potentially effective, a pilot study is required to gauge effectiveness. The time required for electrokinetic separation to reduce inorganic chemicals in the soil is not practical given time constraints to transfer AOC to NGB.
		Fracturing	Moderate effectiveness. Effectiveness driven by effectiveness of other in situ treatment.	Moderate to implement. Fracturing of surface soil is easily achievable. However, fractures may close in non-clayey soil.	Moderate cost to high cost. Cost includes cost of other in situ technologies as this technology enhances other in situ technologies.	Not Retained. This technology is used in unison with other in situ technologies. Since no other in situ technologies are retained, this technology is also not retained.
		Solidification/Stabilization	Moderate effectiveness. Effectiveness is gauged by treatability study. Current concentration indicates soil is not hazardous, and a small reduction of contaminant concentrations from existing level to CUG is required.	Not easy to implement. Treatability studies are usually required to demonstrate effectiveness. Implementing a treatability study is not practical given time constraints to transfer AOC to NGB.	High cost. Pilot study is required as few previous studies have been implemented. Pilot study and implementation costs are high relative to quantity of soil requiring remediation.	Not Retained. Although potentially effective, a pilot study is required to gauge effectiveness. The time required for Solidification/ Stabilization to reduce inorganic chemicals in the soil is not practical given time constraints to transfer AOC to NGB.

Table 11-2. Detailed Screening of Technologies (continued)

General Response Actions	Technology Type	Process Options	Effectiveness	Implementability	Cost	Screening Comments
Treatment	Ex Situ Physical/Chemical Treatment (assuming excavation)	Soil Washing	Moderate effectiveness. Soil washing is more effective reducing soil with high concentrations of contaminants (e.g., hazardous waste levels). It is assumed that the soil is not hazardous waste and only a small reduction is required to achieve CUGs.	Not easy to implement. Treatability study may be required to demonstrate effectiveness. Implementing a treatability study is not practical given time constraints to transfer the AOC to NGB. Additionally, an additional treatment step of the washing solvent (potentially a hazardous waste) will be required.	High cost. Soil washing is cost effective with high quantities. However, a relatively low quantity of soil requires remediation.	Not Retained. A treatability study hinders schedule to achieve the U.S. Army's goal for completion. Additionally, the quantity of soil requiring remediation does not result in cost efficiency for this technology.
		Solidification/Stabilization	Moderate effectiveness. The material is not considered hazardous, and there is only a small reduction in chemical concentration to achieve CUGs.	Not easy to implement. Treatability studies are usually required to demonstrate effectiveness. Implementing a treatability study is not practical given time constraints to transfer the AOC to NGB.	High cost. Increase in disposal volume as a result of adding solidifying or stabilizing agent.	Not Retained. The material is assumed not to be hazardous and will require small reduction in chemical concentrations to CUGs. It is impractical to solidify or stabilize to make a small change in concentration.

AOC = Area of Concern
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
CUG = Cleanup Goal
NGB = National Guard Bureau
RVAAP = Ravenna Army Ammunition Plant

12.0 DEVELOPMENT OF REMEDIAL ALTERNATIVES

This section describes the remedial alternatives developed using the GRAs, technology types, and process options presented in Section 11.0. The retained remedial alternatives meet GRAs and are composed of implementable technology types and process options that address COCs in soil at Anchor Test Area.

The retained remedial alternatives are:

- Alternative 1: No Action; and
- Alternative 2: Attain National Guard Training and Residential Land Uses.

A detailed description of each remedial alternative is provided in the following sections.

12.1 ALTERNATIVE 1: NO ACTION

The No Action alternative is required for evaluation under the NCP. This alternative is the baseline to which other remedial alternatives are compared. This alternative assumes all current actions (e.g., access restrictions and environmental monitoring) are discontinued and assumes no future actions take place to protect human receptors or the environment. Removal or treatment of COCs at the AOC is not implemented.

12.2 ALTERNATIVE 2: ATTAIN NATIONAL GUARD TRAINING AND RESIDENTIAL LAND USES

Actions for each media within this AOC for this alternative are as follows:

- Shallow Surface Soil (0-1 ft bgs) – Excavation with Off-site Disposal
- Deep Surface Soil (1-4 ft bgs) – NFA
- Subsurface Soil (1-13 ft bgs) – NFA

Implementing shallow surface soil removal in contaminated areas at this AOC is necessary to attain National Guard Trainee and Resident Farmer CUGs, which is the objective of Alternative 2. As stated in previous sections, there are no COCs in deep surface soil or subsurface soil for National Guard Trainee and Resident Farmer receptors; therefore, NFA is required for these media. Surface water and sediment does not exist at the AOC. Alternative 2 consists of excavating shallow surface soil, with transportation by truck to an off-site licensed disposal facility to achieve CUGs for both the Resident Farmer and the National Guard Trainee receptors.

This alternative requires soil removal at sampling location ATAss-005M. The extent of the excavation is depicted on Figure 9-1. The estimated total disposal volume (i.e., ex situ) is approximately 14 yd^3. This extent and total disposal volume assumes ISM confirmatory sampling does not result in further soil removal after the initial excavation to 1 ft bgs in sample location ATAss-005M.

This remedial alternative requires coordination of remediation activities with the Ohio EPA, OHARNG, and U.S. Army. Coordinating with stakeholders during implementation of the excavation minimizes health and safety risks to on-site personnel and potential disruptions of RVAAP activities. The time period to complete this remedial action is relatively short and does not include an O&M period to assess impacts from soil. Components of this remedial alternative include:

- Notifications and approvals;
- Remedial Design (RD);
- Waste characterization sampling;
- Site setup, soil excavation, and waste disposal;
- Confirmatory sampling; and
- Restoration.

12.2.1 Notifications and Approvals

Prior to the implementation of this remedial alternative, a review will be conducted to identify any required notifications and approvals. This includes (but is not limited to) obtaining concurrence from the U.S. Fish and Wildlife Service and Ohio Historic Preservation Office.

12.2.2 Remedial Design

An RD plan will be developed prior to the initiation of remedial actions. This plan will outline construction notification requirements; site preparation activities (e.g., staging and equipment storage areas, truck routes, storm water controls); the extent of the excavation; sequence of construction activities; decontamination; and segregation, transportation, and disposal of various waste streams. Engineering and administrative controls (e.g., erosion controls, health and safety controls) will be developed during the active construction period to ensure remediation workers and the environment are protected.

12.2.3 Waste Characterization Sampling

Waste characterization samples will be collected from the area requiring removal. The waste characterization samples will be collected as ISM samples from the area(s) undergoing this remedy to provide the waste disposal facility data to properly profile the waste and determine if it is characteristically nonhazardous or hazardous. Each ISM sample analysis may include (but is not limited to) TCLP metals, TCLP SVOCs, TCLP Pesticides, TCLP Herbicides, Reactive Cyanide, Reactive Sulfide, and PCBs.

12.2.4 Site Setup, Soil Excavation, and Waste Disposal

Prior to any ground disturbance, erosion control material such as silt fences and straw bales will be installed to minimize sediment runoff. Dust generation will be minimized during excavation activities by keeping equipment movement areas and excavation areas misted with water. The health and safety of remediation workers, on-site RVAAP employees, and the general public will be covered in a site-specific health and safety plan.

To achieve a scenario in which the AOC is protective for use by the National Guard Trainee and the Resident Farmer, soil will be removed from location ATAss-005M. Field reconnaissance and surveying will be performed to locate the extents of location ATAss-005M. The extent of this location will be staked to provide guidance to workers executing soil removal. Soil removal will be accomplished using conventional construction equipment such as backhoes, bulldozers, front-end loaders, and scrapers. Oversize debris will be crushed or otherwise processed to meet disposal facility requirements.

Excavated soil will be hauled by truck to a licensed and permitted disposal facility. All trucks will be inspected prior to exiting the AOC. Appropriate waste manifests will accompany each waste shipment. Only regulated and licensed transporters and vehicles will be used. All trucks will travel pre-designated routes within RVAAP.

Excavated soil will be disposed at an existing off-site facility licensed and permitted to accept the characterized waste stream. The selection of an appropriate facility will consider the types of waste, location, transportation options, and cost. Waste streams with different chemicals and/or characteristics may be generated. Disposal cost savings will be possible by utilizing specific disposal facilities for different waste streams.

At the end of the soil excavation, confirmatory samples will be collected from excavation sidewalls unless the excavation sidewalls coincide with previously sampled locations deemed not to require remedy.

12.2.5 Confirmatory Sampling

If necessary, field staff will collect confirmatory ISM samples from excavation sidewalls. Excavation will be to at least 1 ft bgs; therefore, samples of the excavation floor are not required. The confirmation samples will be sent to an off-site laboratory to be analyzed for the COC concentration. If the analyses indicate the COC concentration in soil exceeds the CUGs, further excavation will be conducted. If confirmation sample results are less than CUGs, further soil removal will not be required, and the area can be restored.

12.2.6 Restoration

Once it is determined additional excavation is not required, all disturbed and excavated areas will be backfilled with clean soil and graded to meet neighboring contours. The backfill will come from a source that was previously sampled and approved for use by Ohio EPA. After the area is backfilled and graded, workers will apply a seed mixture (as approved by OHARNG) and mulch. Restored areas will be inspected and monitored as required in the Storm Water Pollution Prevention Plan (SWPPP).

13.0 ANALYSIS OF REMEDIAL ALTERNATIVES

13.1 INTRODUCTION

This section presents a detailed analysis of the viable remedial alternatives retained and developed through the technology screening process. The purpose of this detailed analysis is to provide stakeholders ample information to identify and select an appropriate remedy and prepare the PP. Based on this detailed analysis of the retained alternatives, one or more is recommended for media requiring remediation at Anchor Test Area.

The remedy must meet the following four statutory requirements:

- Be protective of human health and the environment;
- Comply with ARARs (or justification for a waiver);
- Be cost effective; and
- Use permanent solutions and treatment or recovery technologies to the maximum extent practicable.

There are nine established NCP evaluation criteria used to perform a detailed analysis of remedial alternatives to ensure the selected alternative meets the above CECRLA statutory requirements. The nine criteria are grouped into three categories: threshold criteria, balancing criteria, and modifying criteria.

13.1.1 Threshold Criteria

There are two evaluation criteria classified as threshold criteria. This criteria group relates directly to statutory findings. Threshold criteria must be met by the selected remedy. The evaluation criteria in this group are:

1. Overall protection of human health and the environment; and
2. Compliance with ARARs.

Each alternative must be evaluated to determine how it achieves and maintains protection of human health and the environment. An alternative is considered to be protective of human health and the environment if it achieves CUGs. Similarly, the evaluation determines if each remedial alternative complies with ARARs, or if a waiver is required. If a waiver is appropriate, the evaluation must include a justification.

13.1.2 Balancing Criteria

There are five evaluation criteria classified as balancing criteria. This group represents the primary criteria upon which the detailed and comparative analysis of each remedial alternative are based. The evaluation criteria in this group are:

1. Long-term effectiveness and permanence;
2. Reduction of toxicity, mobility, or volume through treatment;
3. Short-term effectiveness;
4. Implementability; and
5. Cost.

Long-term effectiveness and permanence is an evaluation of the magnitude of residual risk (risk remaining after implementation of the alternative) and the adequacy and reliability of controls used to manage the remaining waste (untreated waste and treatment residuals) over the long term. Alternatives that provide the highest degree of long-term effectiveness and permanence leave little or no untreated waste at the AOC, make long-term maintenance and monitoring unnecessary, and minimize the need for LUCs.

Reduction of toxicity, mobility, or volume through treatment is an evaluation of the ability of the alternative to reduce the toxicity, mobility, or volume of the waste. The irreversibility of the treatment process and the type and quantity of residuals remaining after treatment are also assessed.

Short-term effectiveness addresses the protection of workers and the community during the remedial action, the environmental effects of implementing the action, and the time required to achieve media-specific preliminary CUGs.

Implementability addresses the technical and administrative feasibility of implementing an alternative and the availability of various services and material required during implementation. Technical feasibility assesses the ability to construct and operate a technology, the reliability of the technology, the ease in undertaking additional remedial actions, and the ability to monitor the effectiveness of the alternative. Administrative feasibility is addressed in terms of the ability to obtain approval from federal, state, and local agencies.

Cost analyses provide an estimate of the dollar cost of each alternative. The cost estimates in this report are based on estimating reference manuals, historical costs, vendor quotes, and engineering estimates. Costs are reported in base year 2010 dollars, or present value (future costs are converted to base year 2010 dollars using a 4.125% discount factor). The present value analysis is a method to evaluate expenditures, either capital or O&M, which occur over different time periods. Present value calculations allow for cost comparisons of different remedial alternatives on the basis of a single cost figure. The capital costs have not been discounted due to their relatively short implementation duration. The cost estimates are for guidance in project evaluation and implementation and are believed to be accurate within a range of -30% to +50% in accordance with USEPA guidance

(USEPA 1988). Actual costs could be higher than estimated due to unexpected conditions or potential delays. Details and assumptions used in developing cost estimates for each of the alternatives are provided in Appendix I.

13.1.3 Modifying Criteria

There are two evaluation criteria categorized as modifying criteria. Modifying criteria are formally evaluated as part of the ROD and after the public has had an opportunity to comment on the PP. This criteria group consists of:

1. State acceptance; and
2. Community acceptance.

State Acceptance considers comments received from agencies of the State of Ohio. Ohio EPA is the primary state agency supporting this investigation. Ohio EPA, as well as other state agencies, will provide comments on the FS and the preferred remedy presented in the PP. This criterion is addressed in the responsiveness summary of the ROD.

Community Acceptance considers comments made by the community, including stakeholders, on the alternatives being considered. Comments will be solicited and accepted from the community on the FS and the preferred remedy presented in the PP. This criterion is addressed in the responsiveness summary of the ROD.

Modifying criteria are future activities. These actions are the same for the retained alternatives. Therefore, the detailed analysis of the remedial alternatives is not included in an evaluation of modifying criteria. The detailed analysis of the retained remedial alternatives for Anchor Test Area is presented in the following sections. This analysis is based on seven evaluation criteria (two threshold and five balancing criteria).

13.2 DETAILED ANALYSIS OF REMEDIAL ALTERNATIVES

A detailed analysis of each alternative against the seven NCP evaluation criteria is contained in the following sections and is summarized in Table 13-1. The detailed analysis includes further definition of each alternative (if necessary), compares the alternatives against one another, and presents considerations common to the alternatives.

As presented in Section 12.0, the following remedial alternatives were retained for Anchor Test Area:

- Alternative 1: No Action; and
- Alternative 2: Attain National Guard Training and Residential Land Uses.

13.2.1 Alternative 1: No Action

Under this alternative, no remedial actions take place for any media to meet the RAO. Media with concentrations greater than CUGs are left in place. Existing access restrictions (e.g., RVAAP perimeter fence) are not continued. Environmental monitoring is not performed and no restrictions on land use are implemented.

13.2.1.1 Overall Protection of Human Health and the Environment

Alternative 1 is not protective of human health for the RAFLU (National Guard Training) and Residential Land Use. Arsenic is identified as a COC in ISM shallow surface soil (0-1 ft bgs) samples for both the National Guard Trainee and Resident Farmer scenarios. Alternative 1 is not considered protective of human health for the representative receptor (National Guard Trainee).

The ERA concluded there is chemical contamination and possible risk but no important or significant ecological resources at the 0.5 acres of Anchor Test Area, and the recommendation is NFA for protection of ecological resources (Section 7.3). Under Alternative 1, current risk is not reduced and the ecological resources at the AOC remains unchanged. Current land use and RAFLU allows for sustainability of terrestrial habitat for ecological receptors.

13.2.1.2 Compliance with ARARs

Potential ARARs for remediation of soil at Anchor Test Area are presented in Section 10.0. These enforceable standards are protective of representative receptors under both the National Guard Trainee and Resident Farmer Land Uses that are exposed to COCs at Anchor Test Area. There are no chemical-specific, location-specific, and action-specific ARARs identified for Alternative 1.

13.2.1.3 Long-Term Effectiveness and Permanence

Alternative 1 has no long-term management measures to prevent exposures to, or the migration of, COCs. Existing security is discontinued, and there is no access control to Anchor Test Area.

13.2.1.4 Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative 1 does not reduce the toxicity, mobility, or volume of COCs. The alternative does not remove or treat soil with concentrations of COCs above CUGs.

13.2.1.5 Short-Term Effectiveness

Alternative 1 has no additional short-term health risks to the community, remediation workers, or the environment. This remedial alternative offers no short-term benefits or progress to achieve the RAO.

13.2.1.6 Implementability

This alternative does not require any additional effort to implement since it does not change the existing condition at Anchor Test Area.

13.2.1.7 Cost

The present value cost to complete Alternative 1 is $0. No capital costs are associated with this alternative.

13.2.2 Alternative 2: Attain National Guard Training and Residential Land Uses

The implementation of Alternative 2 results in Anchor Test Area achieving CUGs for the National Guard Trainee and Resident Farmer. To achieve these CUGs, Alternative 2 implements excavation and off-site disposal of shallow surface soil with concentrations greater than National Guard Trainee and Residential Farmer CUGs. An estimated 14 yd^3 (ex situ) of soil is excavated and transported (via truck) to an off-site permitted disposal facility. Other technologies required include monitoring, short-term containment, and waste handling via trucks.

13.2.2.1 Overall Protection of Human Health and the Environment

The long-term protectiveness of Alternative 2 is high. Surface soil with concentrations greater than the National Guard Trainee and Resident Farmer CUGs is excavated and removed from the AOC. The remedial action is protective of human health.

The ERA concluded there is contamination and risk but no important or significant ecological resources at Anchor Test Area, and the recommendation is NFA for protection of ecological resources (Section 7.3). However, this alternative beneficially reduces existing chemical risks to ecological receptors through removal of soil to attain human health CUGs. Implementation of Alternative 2 results in temporary vegetation loss and disruption of soil adjacent to excavation areas. Excavation of soil in the vicinity of Anchor Test Area disrupts approximately 5,184 ft^2 (0.12 acres) of the clearing area. The clearing area should recover from excavation activities in a few years.

13.2.2.2 Compliance with ARARs

These enforceable standards would be incorporated into planning and design documents and are protective of representative receptors National Guard Training and Residential Land Uses. Through incorporation into the planning and design documents and implementation during field activities, this action will comply with the identified ARARs.

13.2.2.3 Long-Term Effectiveness and Permanence

Alternative 2 effectively reduces and controls COCs in the soil over the long-term. Shallow surface soil above the National Guard Trainee and Resident Farmer CUGs is excavated and transported to an off-site disposal facility, thereby mitigating risks to human health and the environment. Accordingly, LUCs are not required at the completion of the removal activities. No CERCLA five-year reviews or O&M sampling are required.

13.2.2.4 Reduction of Toxicity, Mobility, or Volume through Treatment

Alternative 2 does not achieve a reduction in the toxicity or volume of contaminated media. The mobility of COCs in the excavated soil is reduced at the off-site disposal facility through engineering controls (e.g., clay liners, geomembranes).

13.2.2.5 Short-Term Effectiveness

There are potential short-term worker and community exposures associated with Alternative 2. Workers are exposed during the excavation activities. A health and safety plan that identifies appropriate personal protective equipment (PPE) for workers minimizes and/or eliminates exposures.

The community near the excavation area and along the route to the disposal facility can be exposed during removal and transportation activities. Mitigation measures during excavation, such as erosion and dust control, minimize/eliminate potential short-term impacts. The community will be protected during soil transport by inspecting vehicles before and after use, decontaminating as needed, covering the transported waste, observing safety protocols, following pre-designated routes, and limiting the distance to the disposal facility. Transportation risks associated with material leaks increase with distance and volume of material. Transportation of soil to an off-site disposal facility complies with all applicable state and federal regulations. Pre-designated travel routes are established and an emergency response program is developed to facilitate any potential accident response.

The excavation of the soil and restoration of the AOC is estimated to be completed in approximately one month. Storm water controls are monitored weekly for six months or until the vegetation is 70% established. Upon the completion of the excavation activities, Anchor Test Area is released for National Guard Training and Residential Land Uses.

13.2.2.6 Implementability

Alternative 2 is easily implemented after the development of a RD and all appropriate coordination with local, state, and federal agencies is completed. Excavation of soil, construction of temporary roads, and waste handling are conventional, straightforward construction techniques and methods. Multiple off-site disposal facilities are available to accept generated waste. Resources (e.g., equipment, material, trained personnel) to implement this alternative are readily available.

Excavation activities are coordinated with RVAAP and OHARNG to minimize disruptions and/or impacts to OHARNG. The RD identifies access routes to the AOC for heavy equipment and steps to minimize potential hazards to on-site personnel. The development of the RD and coordination with local, state, and federal permitting organizations increases the implementation difficulty of Alternative 2 as compared to Alternative 1.

13.2.2.7 Cost

The present value cost to complete Alternative 2 is approximately $93,967 (in base year 2010 dollars with a 4.125% discount factor). This alternative does not include an O&M period subsequent to the soil removal. See Appendix I for a detailed description of Alternative 2 costs.

13.3 COMPARATIVE ANALYSIS OF REMEDIAL ALTERNATIVES USING NCP CRITERIA

In this section, a comparative analysis of the alternatives is conducted to identify relative advantages and disadvantages of each based on the detailed analysis above. The comparative analysis provides a means by which remedial alternatives can be directly compared to one another with respect to common criteria. Overall protection and compliance with ARARs are threshold criteria that must be met by any alternative to be eligible for selection. The other criteria, consisting of short- and long-term effectiveness; reduction of contaminant toxicity, mobility, or volume through treatment; ease of implementation; and cost are the primary balancing criteria used to select a preferred remedy among alternatives that satisfies the threshold criteria. A summary table illustrating the comparative analysis is provided in Table 13-1.

The following remedial alternatives were retained and analyzed in detail:

Alternative 1: No Action;
Alternative 2: Attain National Guard Training and Residential Land Uses.

The relative advantage and disadvantages of these alternatives are described below. For these evaluations, the term “high” indicates a highly favorable situation, “medium” indicates a moderately favorable situation, and “low” indicates a situation that is not favorable.

13.3.1 Overall Protection of Human Health and the Environment

Alternative 1 does not provide overall protection of human health, as COCs for the National Guard Trainee and Resident Farmer remain on-site. Human health COCs remain in soil, and the current risk to ecological receptors and ecological significance of the AOC remains unchanged.

Alternative 2 provides protection of human health through removal of contamination and does not require additional protectiveness after contaminant removal, as the alternative achieves cleanup standards for the National Guard Trainee and Resident Farmer. Alternative 2 beneficially reduces

exposure and risk to ecological receptors to COCs but increases physical risk and will temporarily change the vegetation type of some terrestrial habitat.

13.3.2 Compliance with ARARs

All alternatives are considered to be in compliance with ARARs. There are no chemical-specific or location-specific ARARs for any of the alternatives. Action-specific alternatives are applicable to Alternative 2.

13.3.3 Long-Term Effectiveness and Permanence

Alternative 1 is rated low in terms of long-term effectiveness in preventing exposures or the spread of contamination. Alternative 1 does not involve any remedial action or LUCs for potential future exposure.

The long-term effectiveness and permanence of Alternative 2 is considered high. This alternative is highly permanent and effective since this alternative involves the removal of soil containing COCs and achievement of the National Guard Trainee and Resident Farmer CUGs. No LUCs are required after implementation of Alternative 2.

13.3.4 Reduction in Contaminant Volume, Toxicity, and Mobility through Treatment

The ability of Alternatives 1 and 2 to reduce COC volume and toxicity is low since these alternatives do not involve treatment. The mobility of COCs is reduced for Alternative 2, given the excavated soil is disposed of at an off-site facility equipped with engineering controls. Because Alternative 1 does not reduce mobility it is rated low. Alternative 2 is rated medium.

13.3.5 Short-Term Effectiveness

There are no additional short-term risks posed to the community, remedial workers, or the environment with Alternative 1. Therefore the short-term effectiveness of this remedial alternative is rated high.

Alternative 2 presents short-term risk to workers, the community, and the environment during excavation and transportation of soil. Mitigation measures (e.g., dust control, storm water controls, housekeeping activities, covering and cleaning haul trucks) during excavation activities minimize and/or eliminate all potential risks. The RAO is achieved within 30 days of implementation. Excavation results in a temporary loss of vegetated habitat. Short-term environmental impacts are minimized through construction mitigation techniques. Alternative 2 is rated medium for short-term effectiveness.

13.3.6 Implementability

All alternatives are considered implementable on a technical and availability-of-services basis. Alternative 1 as a "No Action" alternative is rated high. Soil removal and disposal should be readily implementable, but not as easily as Alternative 1. Therefore, Alternative 2 is assigned a medium rating.

13.3.7 Cost

Costs were estimated for comparison purposes only and are believed accurate within a range of -30% to +50%. The estimated present value cost (in base year 2010 dollars with a 4.125% discount factor) to complete each of the alternatives is as follows:

Alternative 1:	$	0
Alternative 2:	$	93,967

Table 13-1. Summary of Comparative Analysis of Remedial Alternatives

NCP Evaluation Criteria	**Alternative 1: No Action**		**Alternative 2: Attain National Guard Training and Residential Land Uses**	
Threshold Criteria	***Result***		***Result***	
1. Overall Protectiveness of Human Health and the Environment	Not protective		Protective	
2. Compliance with ARARs	Compliant		Compliant	
Balancing Criteria	***Ranking***	***Score***	***Ranking***	***Score***
3. Long-Term Effectiveness and Permanence	Low	1	High	3
4. Reduction of Toxicity, Mobility, or Volume through Treatment	Low	1	Medium	2
5. Short-Term Effectiveness	High	3	Medium	2
6. Implementability	High	3	Medium	2
7. Cost	High	3	Medium	2
Balancing Criteria Score		*11*		*11*

"High" = highly favorable situation
"Medium" = moderately favorable situation
"Low" = situation that is not favorable
Scoring for the Balancing Criteria is as follows: High = 3, Medium = 2, Low = 1
ARAR = Applicable or Relevant and Appropriate Requirements
NCP = National Contingency Plan

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14.0 AGENCY COORDINATION AND PUBLIC INVOLVEMENT

The U.S. Army is the lead agency responsible for executing the CERCLA process and ultimately completing an approved ROD for soil, sediment, and surface water at Anchor Test Area. This section reviews actions that have been conducted and presents activities that are planned to ensure the regulatory agencies and members of the public have been provided with appropriate opportunities to stay informed of the progress of the Anchor Test Area environmental investigation, restoration efforts, and final selection of a remedy.

As described in Section 13.0, two of the nine NCP evaluation criteria are known as "modifying criteria" – state acceptance and community acceptance. These criteria provide a framework for obtaining the necessary agency coordination and public involvement in the remedy selection process.

14.1 STATE ACCEPTANCE

State acceptance considers comments received from agencies of the State of Ohio on the proposed remedial alternatives. Ohio EPA is the lead regulatory agency for supporting remedy of soil, sediment, and surface water at Anchor Test Area. This RI/FS report has been prepared in consultation with the Ohio EPA.

Ohio EPA has provided input during the ongoing investigation and report development to ensure the remedy ultimately selected for Anchor Test Area is protective of human health and the environment and fulfills the requirements of the DFFO (Ohio EPA 2004). Ohio EPA provided comments on this RI/FS report and will provide comments on the subsequent PP and ROD. The U.S. Army will obtain Ohio EPA concurrence prior to the final selection of the remedy for soil, sediment, and surface water at the AOC.

14.2 COMMUNITY ACCEPTANCE

Community acceptance considers comments provided by community members for each proposed remedial alternative. CERCLA 42 U.S.C. 9617(a) emphasizes early, constant, and responsive community relations. The U.S. Army has prepared a *Community Relations Plan* (USACE 2003b) to facilitate communication between RVAAP and the community surrounding Ravenna, Ohio during environmental investigations and potential remedial action. The plan was developed to ensure the public has convenient access to information regarding project progress. The community relations program interacts with the public through news releases, public meetings, public workshops, and Restoration Advisory Board (RAB) meetings with local officials, interest groups, and the general public.

CERCLA 42 U.S.C. 9617(a) requires an Administrative Record to be established "at or near the facility at issue." Relevant documents regarding RVAAP have been made available to the public for review and comment. The Administrative Record for this project is available at the following location:

Ravenna Army Ammunition Plant
Building 1037
8451 State Route 5
Ravenna, Ohio 44266-9297

Access to RVAAP is restricted but can be obtained by contacting facility management at (330) 358-7311. In addition, an Information Repository of current information and final documents is available to any interested reader at the following libraries:

Reed Memorial Library
167 East Main Street
Ravenna, Ohio 44266

Newton Falls Public Library
204 South Canal Street
Newton Falls, Ohio 44444-1694

Additionally, RVAAP has an online resource for restoration news and information. This website is available at: www.rvaap.org.

Comments will be received from the community upon issuance of the FS and the PP. As required by the CERCLA regulatory process and the RVAAP *Community Relations Plan*, the U.S. Army will hold a public meeting and request public comments on the PP for Anchor Test Area. These comments will be considered prior to the final selection of a remedy. Responses to these comments will be addressed in the responsiveness summary of the ROD.

15.0 CONCLUSIONS AND RECOMMENDED ALTERNATIVE

15.1 CONCLUSIONS

The primary purposes of this RI/FS report are to review of the history of Anchor Test Area, summarize RI activities, evaluate results of the RI, develop the RAO and remedial alternatives, and present a recommended alternative to address soil at the AOC.

The RAO for this AOC is to prevent: (1) National Guard Trainee exposure to identified COCs in soil above CUGs; (2) adverse ecological effects from previous AOC activities; and (3) negative groundwater impacts from contaminant migration.

Sediment and surface water do not exist at this AOC. Analyses of remedial alternatives are not warranted for subsurface soil greater than 1 ft depth based on the absence of human health COCs; NFA is recommended for this media. Soil remediation to protect groundwater is not warranted because: (1) contaminant leaching and fate and transport modeling results did not identify CMCOCs; and (2) groundwater has a depth greater than 5 ft bgs and is not considered an exposure medium to ecological receptors. Additionally, the ERA concluded there may be potential ecological risk but did not identify affected ecological resources associated with Anchor Test Area. As a result, the ERA recommended NFA for ecological resources.

To achieve National Guard Training and Residential Land Uses, remediation of COCs in shallow surface soil (0-1 ft bgs) is required. Chemical-specific CUGs are established. A combination of the National Guard Trainee and Resident Farmer CUGs provide a baseline for evaluating whether this AOC may be eligible for unrestricted release.

After the identification of COCs and the establishment of CUGs, remedial technologies are screened and the following viable remedial alternatives developed:

Alternative 1: No Action; and
Alternative 2: Attain National Guard Training and Residential Land Uses.

These alternatives are applicable and are compared against one another to provide information of sufficient quality and quantity to justify the selection of a remedy. The following section provides the recommended alternative for Anchor Test Area soil.

15.2 RECOMMENDED ALTERNATIVE

The recommended alternative for Anchor Test Area is Alternative 2: Attain National Guard Training and Residential Land Uses. This alternative attains CUGs for the National Guard Trainee and Resident Farmer, which provides the requisite level of protectiveness for unrestricted land use. A No Action alternative was also evaluated. However, since the threshold criteria Overall Protectiveness of

Human Health and the Environment is not protective, the No Action alternative is eliminated from consideration.

Alternative 2 involves the removal of shallow surface soil (0-1 ft bgs) at Anchor Test Area that exceeds the arsenic CUG (15.4 mg/kg) for the Resident Farmer at location ATAss-005M. Confirmation samples will be collected along excavation sidewalls using ISM to verify the extent of excavation is below the CUG or if further lateral removal of soil is required. If the excavation extends to a previously sampled ISM sampling area that had a concentration less than the CUG (e.g., ATAss-016M), excavation will stop and confirmation sampling on the corresponding sidewall will not be required.

Assuming removal beyond the extent of the ATAss-005M is not needed, the cost for the alternative is estimated to be $93,967. Successful implementation of the alternative at the AOC will attain a requisite level of protectiveness for soil for unrestricted land use. Therefore, LUCs and five-year reviews will not be required following the remedy.

The next step in the CERCLA process is to prepare a PP to solicit public input on the remedial alternatives. The PP will present these alternatives with the preferred remedial alternative for Anchor Test Area. Comments on the PP provided by state and federal agencies and the public will be presented in the Responsive Summary Section of the Anchor Test Area ROD. The ROD will provide a brief summary of the history, characteristics, and risks of the AOC, and will document its selected remedy.

16.0 REFERENCES

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APPENDIX A

Field Sampling Logs

Discrete Surface Soil Samples
Incremental Sampling Method Surface Soil Samples
Soil Boring Samples
Asbestos Visual Inspection Report

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DISCRETE SURFACE SOIL SAMPLES

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HTRW DRILLING LOG (continued)

DISTRICT	BOREHOLE NUMBER
USACE - Louisville	ATAss-012

1. COMPANY NAME	2. DRILLING SUBCONTRACTOR	SHEET 1 OF 1
SAIC	NA	

3. PROJECT RVAAP PBA08 RI

4. LOCATION RVAAP 8451 State Route 5 Ravenna, OH 44266

5. NAME OF DRILLER Rich Sprenzl

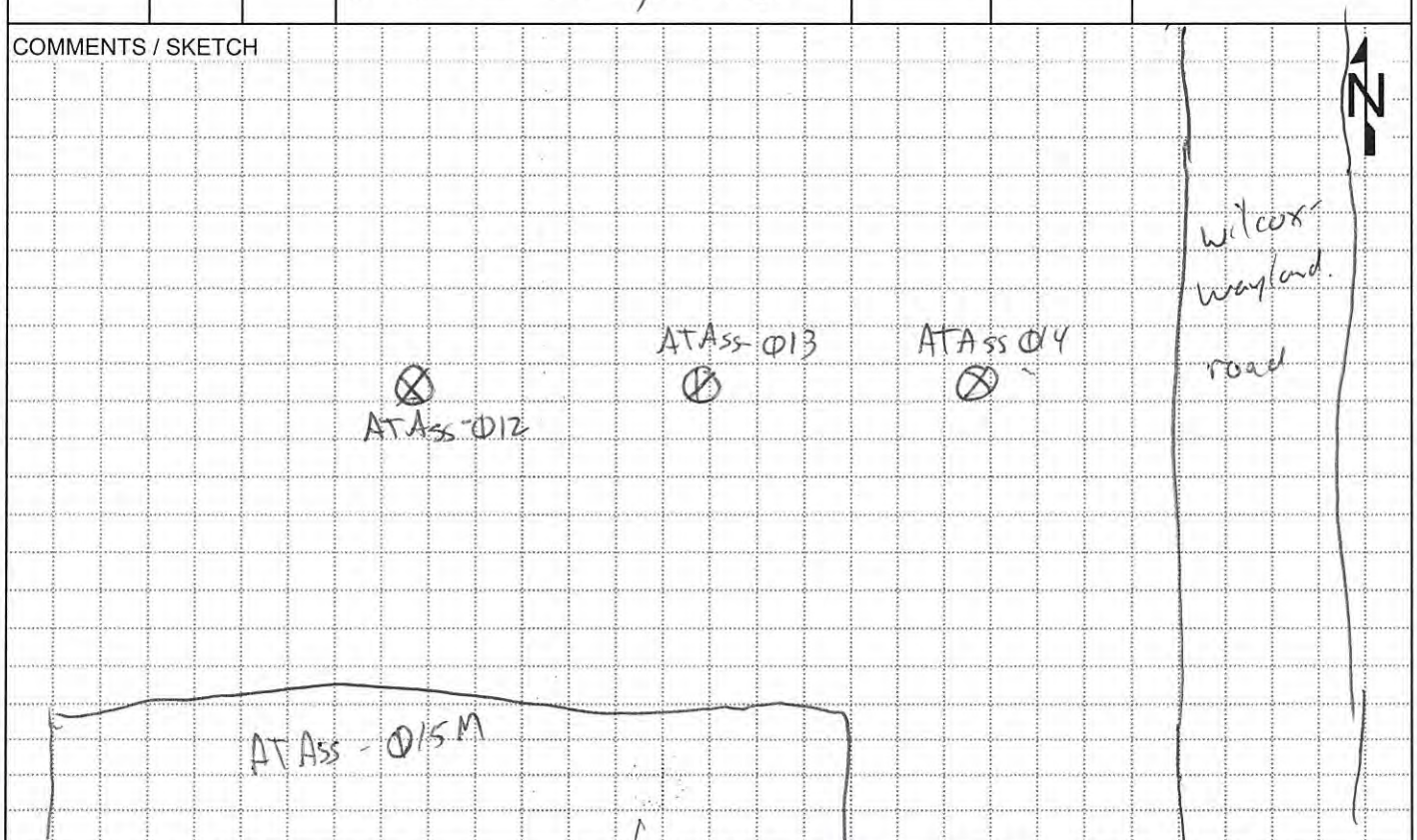
6. DIRECTION OF BOREHOLE ☑ VERTICAL ☐ INCLINED DEGREES

7. NOTES PID MAKE/MODEL: NA PID SERIAL#: NA Colors from Munsell Soil Color Chart, Rev 10YR 4/2 DK. Grayish Brown

WATER LEVEL MAKE/MODEL: WATER LEVEL SERIAL#:

ELEVATION	DEPTH (Feet)	USCS	CLASSIFICATION OF MATERIALS	SPT DATA (0.5 Feet)	MONITORING (PPM/CPM)	REMARKS (Sample IDs/Depths/Core Box/Etc.)
	1	CL	CLAY, some-Little Silt, Trace Sand, Trace Gravel, dark grayish Brown 10YR 4/2, medium, moist, low plasticity, mottled yellowish Brown 10YR 5/6, roots present.	NA	NA	ATAss-012-5033-50 at 1235 Hex Cr / Total Cr.
			Terminated Boring at 1' BGS			

COMMENTS / SKETCH



GEOLOGIST SIGNATURE/DATE	QA/QC SIGNATURE/DATE	BOREHOLE NUMBER
2/17/10	2/24/2010	ATAss-012

HTRW DRILLING LOG (continued)

DISTRICT	BOREHOLE NUMBER
USACE - Louisville	ATAss-Ø13

1. COMPANY NAME	2. DRILLING SUBCONTRACTOR	SHEET 1 OF 1
SAIC	NA	

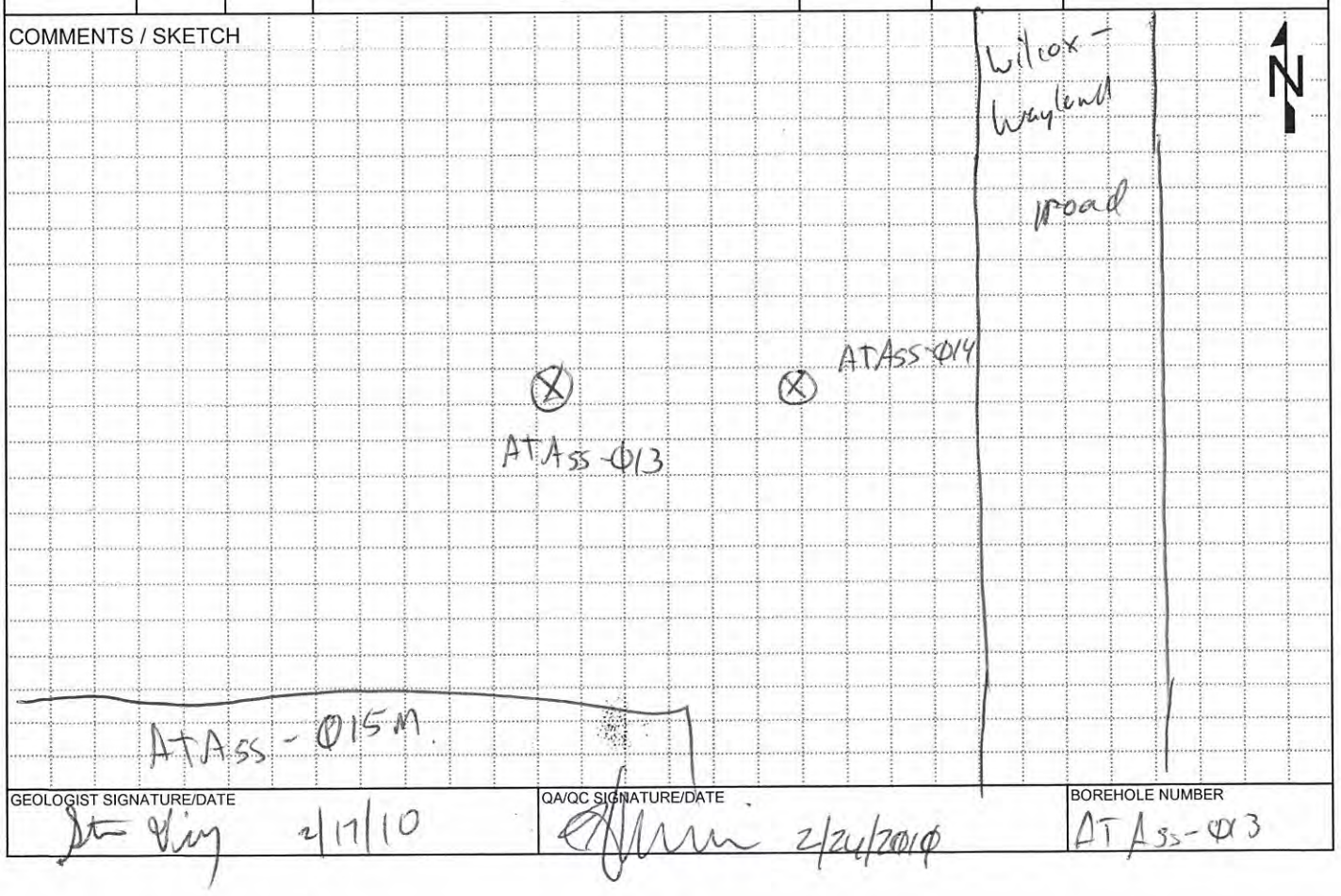
3. PROJECT	RVAAP PBA08RP	4. LOCATION	RVAAP 8451 State Route 5 Ravenna, OH 44266
5. NAME OF DRILLER	Rich Springl	6. DIRECTION OF BOREHOLE	☑ VERTICAL ☐ INCLINED DEGREES

7. NOTES PID MAKE/MODEL: NA PID SERIAL#: NA Colors from Munsell Soil Color Chart, Rev 10YR 3/2 Dk. Grayish Brown

WATER LEVEL MAKE/MODEL: WATER LEVEL SERIAL#:

ELEVATION	DEPTH (Feet)	USCS	CLASSIFICATION OF MATERIALS	SPT DATA (0.5 Feet)	MONITORING (PPM/CPM)	REMARKS (Sample IDs/Depths/Core Box/Etc.)
		SM	Fine SAND, Some Silt, Trace Clay DK Brown, 10YR 3/3, Loose, moist, Non Plastic, Topsoil. Roots.			ATAss-Ø13-SØ34-SØ at 1220 Hex Cr/ Total Cr
		SM	Medium SAND, little Silt, Trace Gravel Trace Clay, Very Dk Grayish Brown 10YR 3/2, Loose, damp, non plastic, organic material present	NA	NA	
	1	SM/OL	SILT, some Clay, Trace Fine Sand, Grayish Brown 10YR 5/2, Medium, moist, Low plasticity, roots present.			
			Terminated Boring at 1' BGS			

COMMENTS / SKETCH



GEOLOGIST SIGNATURE/DATE	QA/QC SIGNATURE/DATE	BOREHOLE NUMBER
2/17/10	2/24/2010	ATAss-Ø13

HTRW DRILLING LOG (continued)

DISTRICT	BOREHOLE NUMBER
USACE - Louisville	ATASS-014

1. COMPANY NAME	2. DRILLING SUBCONTRACTOR	SHEET
SAIC	NA	1 OF 1

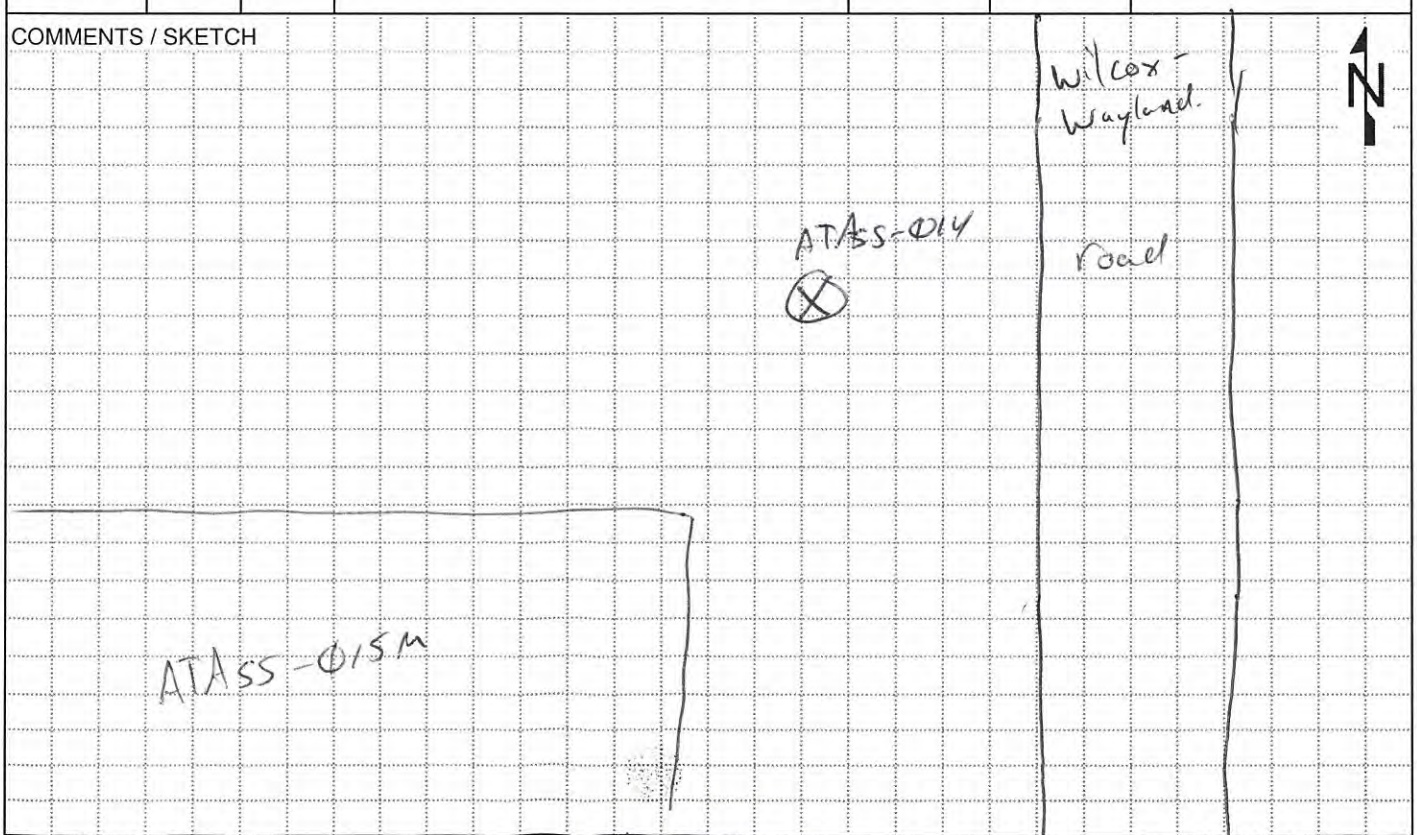
3. PROJECT	4. LOCATION
RVAAP PBA08 RI	RVAAP 8451 State Route 5 Ravenna, OH 44266

5. NAME OF DRILLER	6. DIRECTION OF BOREHOLE
Rich Sponzel	☑ VERTICAL ☐ INCLINED DEGREES

7. NOTES
PID MAKE/MODEL: NA
PID SERIAL#: NA
WATER LEVEL MAKE/MODEL:
WATER LEVEL SERIAL#:
Colors from Munsell Soil Color Chart, Rev
10YR 5/3 Brown

ELEVATION	DEPTH (Feet)	USCS	CLASSIFICATION OF MATERIALS	SPT DATA (0.5 Feet)	MONITORING (PPM/CPM)	REMARKS (Sample IDs/Depths/Core Box/Etc.)
	0	SC	Medium SAND. (SC), Trace Silt, Trace, Fine Gravel, Subangular, Brown 10YR 5/3, Loose, moist, non plastic, roots present.	NA	NA	ATASS-014 5035-SO for Hex Cr + Total Cr @ 1210
	1		Terminated Boring at 1' BGS			

COMMENTS / SKETCH



GEOLOGIST SIGNATURE/DATE	QA/QC SIGNATURE/DATE	BOREHOLE NUMBER
2/17/10	2/24/2010	ATASS-014

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Incremental Sampling Method (ISM)
(formerly Multi-incremental)
Surface Soil Samples

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RVAAP - Multi-Incremental (MI) Field Form

SHEET 1 OF 1

SAIC — From Science to Solutions

USACE - Louisville
RVAAP PBA 2008 RI

RVAAP 8451 State Rt. 5
Ravenna, OH 44266

1. Sample Team: Steve Visocky, Rick Sprinzl

2. Location ID: ATA55-0015M

3. Revised Coordinates Recorded: NA

4. Sample ID: ATA55-0015M-5036-50

5. Sample Date and Time: 2/17/10 1200

6. Dupe ID: NA

7. Split ID: NA

8. MI Equipment Used: SS Push Probe, SS Spoon / Bowl.

9. MS/MSD Collected: NA

10. Activities in the Area: None

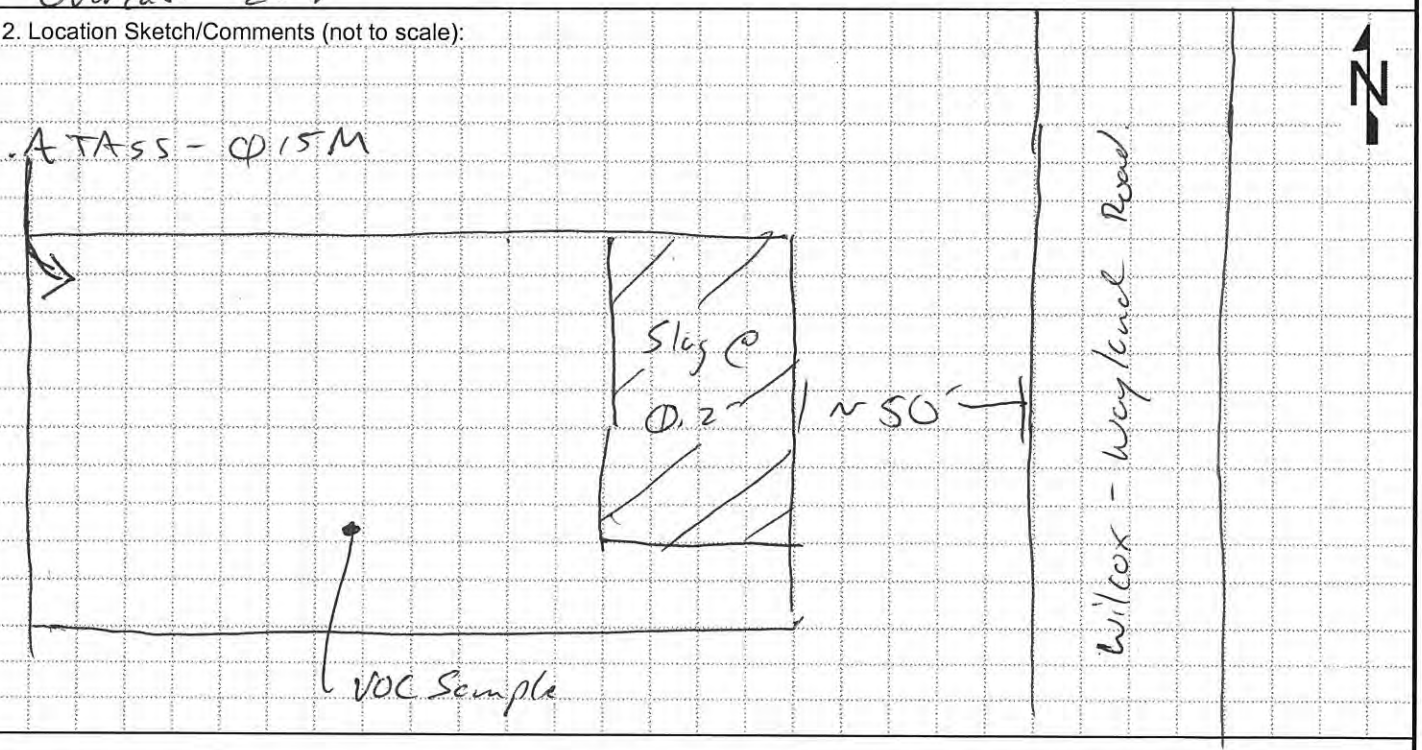
11. Soil Description and Field Notes:

50% wooded, 50% open field. Refusal @ 0.2' BGS on slag in NE corner.

Fine SAND (SC), Some Silt, Trace Clay, Trace Fine Gravel, Dark Brownish Grey 10YR 4/2, Medium, Damp, Low plasticity, Mottled Yellowish Brown 10YR 5/6, roots present.

Overcast 25°F

12. Location Sketch/Comments (not to scale):



13. MI Soil Analyses:

☐ EXPLOSIVES ☐ TAL METALS ☐ SVOCs ☐ PAHs ☐ OTHER _____

☒ FULL SUITE (VOCs, SVOCs, Metals, Explosives, Propellants, Pesticides, PCBs)

Recorded By: Steve Visocky 2/17/10 (Signature and Date)

QC Checked By: [signature] 2/24/2010 (Signature and Date)

RVAAP - Multi-Incremental (MI) Field Form

SHEET 1 OF 1

SAIC — From Science to Solutions

USACE - Louisville
RVAAP PBA 2008 RI

RVAAP 8451 State Rt. 5
Ravenna, OH 44266

1. Sample Team: Steve Visocky
Rich Spruzel

2. Location ID: ATASS - 016M

3. Revised Coordinates Recorded: NA

4. Sample ID: ATASS - 016M - 5037 - SO

5. Sample Date and Time: 2/17/10 1045

6. Dupe ID: ATASS - 016M - 5047 - FD

7. Split ID: ATASS - 016M - 6046 - QA

8. MI Equipment Used: SS push Probe, SS Bowl / spoon

9. MS/MSD Collected:

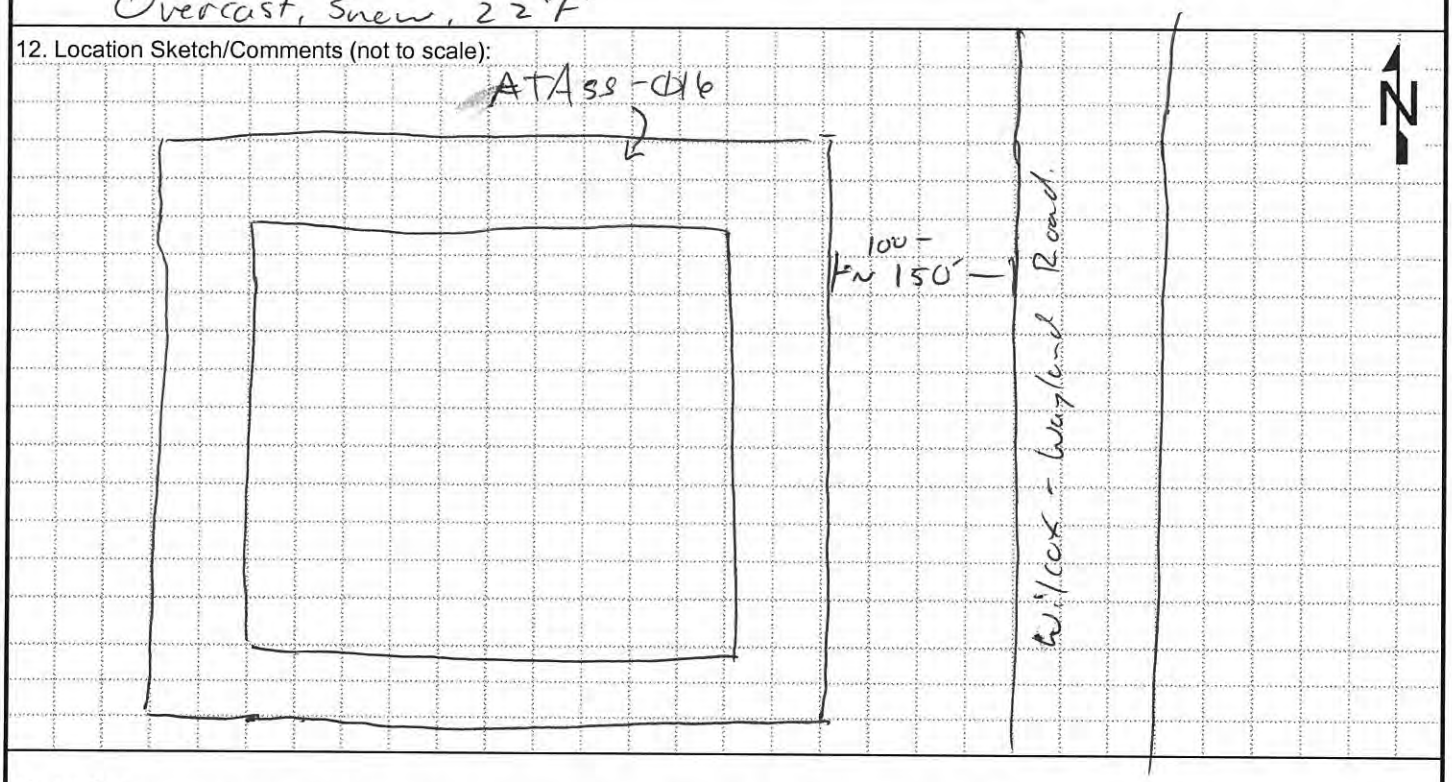
10. Activities in the Area:

11. Soil Description and Field Notes:
100% Wooded Area

SILT (SC), Little - some Fine Sand, Trace Clay, Trace Fine Gravel, Light Brownish Grey ~~Grayish Brown~~ 10YR 4/2 - Dark Brownish Gray, Soft, Moist, Medium plasticity, Organic Material, roots present.

Overcast, Snow, 22°F

12. Location Sketch/Comments (not to scale):



13. MI Soil Analyses:
☑ EXPLOSIVES ☒ TAL METALS ☐ SVOCs ☐ PAHs ☐ OTHER _____
☐ FULL SUITE (VOCs, SVOCs, Metals, Explosives, Propellants, Pesticides, PCBs)

Recorded By: [signature] 2/17/10
(Signature and Date)

QC Checked By: [signature] 2/24/2010
(Signature and Date)

SOIL BORING SAMPLES

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HTRW DRILLING LOG

DISTRICT	BOREHOLE NUMBER
USACE - Louisville	ATA SD-0006

1. COMPANY NAME	2. DRILLING SUBCONTRACTOR	SHEET 1 OF 2
SAIC	Frontz Drilling	

3. PROJECT RVAAPPBA08 RI	4. LOCATION RVAAP 8451 State Route 5 Ravenna, OH 44266
5. NAME OF DRILLER JEREMY LECKRONE	6. MAKE/MODEL OF DRILL Geoprobe 6620 DT
7. SIZES AND TYPES OF SAMPLING EQUIPMENT 3" 2nd HAND AUGER 1.5" X 4' ACETATE LINER 2" DUAL TUBE	8. BOREHOLE LOCATION ANCHOR TEST AREA 1 5516046.4403 2361580.6308 9. SURFACE ELEVATION/DATUM NAD 83 10. DRILL DATE/TIME STARTED: 02/24/10 1050 COMPLETED: 1135 15. DEPTH GROUNDWATER ENCOUNTERED ~~NA~~ 12.5 FT BGS 16. DEPTH TO WATER/ELAPSED TIME AFTER BOREHOLE COMPLETION NA
12. OVERBURDEN THICKNESS 13+ ft	
13. DEPTH DRILLED INTO BEDROCK NA	17. OTHER WATER LEVEL MEASUREMENTS (INLCLUDE DATE/TIME) NA
14. TOTAL DEPTH OF BOREHOLE 13FT	

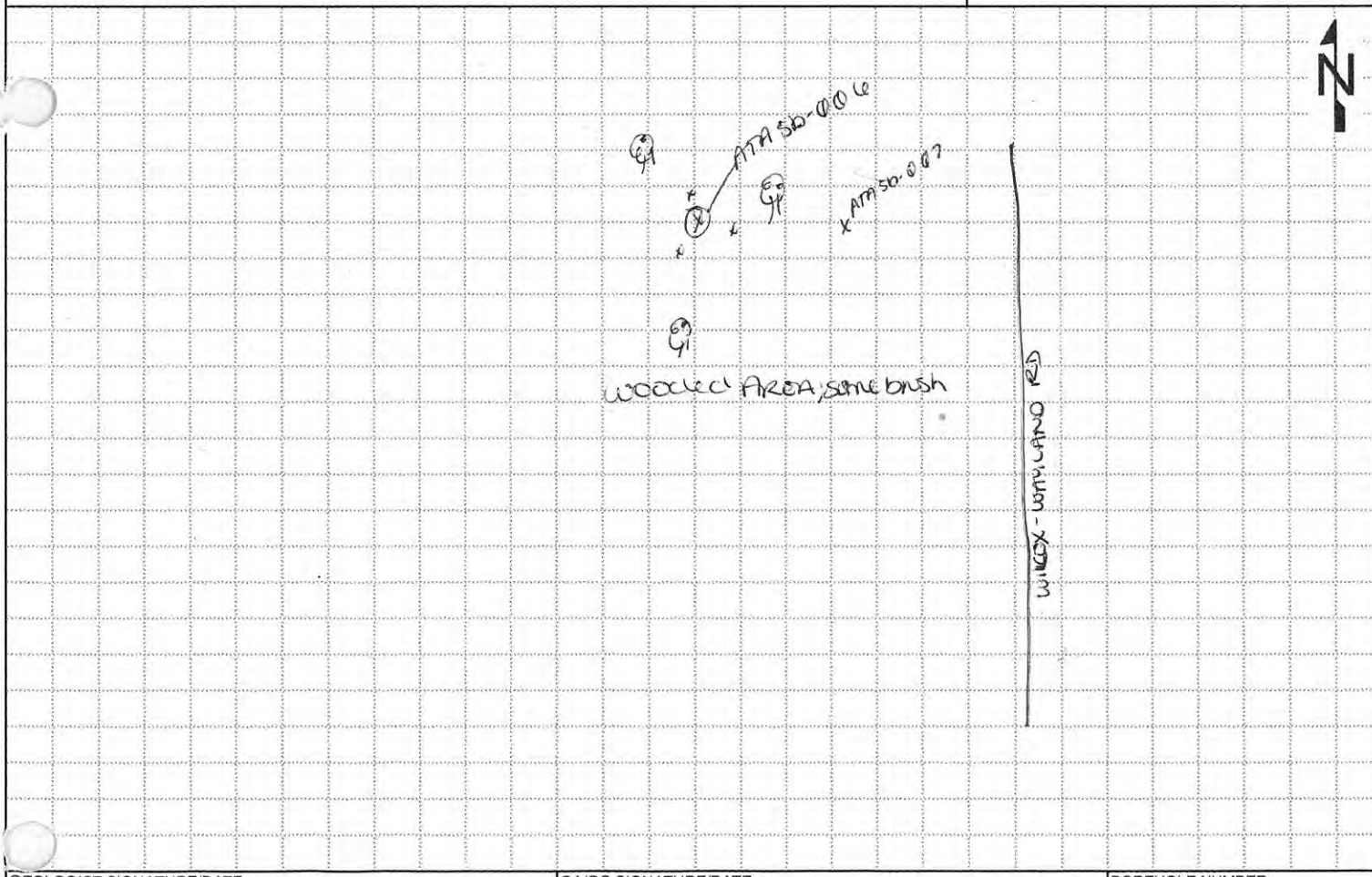
18. GEOTECHNICAL SAMPLES	UNDISTURBED: NA	DISTURBED: NA	19. TOTAL NUMBER OF CORE BOXES NA
20. CHEMICAL SAMPLES	CHEM: TAL METALS/EXPL	RAD: NA	OTHER: NA
21. TOTAL CORE RECOVERY % NA			
22. DISPOSITION OF BOREHOLE	DATE STARTED/INSTALLED: 02/24/10; 1050	DATE COMPLETED/ABANDONED: 02/24/10; 1135	

BACKFILL TYPE: ☐ GROUT ☑ BENTONITE ☐ TEMPORARY WELL POINT ☐ MONITORING WELL

23. NOTES BKG: ≤ Background BGS: Below Ground Surface CPM: Counts per Minute PPM: Parts per Million

▽ : First Water Encountered ▼ : Static Water Level NA: Not Applicable

LOCATION SKETCH/COMMENTS **SCALE:** None



GEOLOGIST SIGNATURE/DATE	QA/QC SIGNATURE/DATE	BOREHOLE NUMBER
Amanda Frontz 02/24/10	3/12/10	ATA SD-0006

US Army Corps of Engineers
Louisville District

SAIC From Science to Solutions

RVAAP-48
Anchor Test Area
ATAsb-006

RVAAP PBA 2008 Remedial Investigation
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266
Portage County

Start Date	: 02/24/10; 1050
End Date	: 02/24/10; 1135
Northing Coord.	: 556046.4403
Easting Coord.	: 2361580.630
Total Depth of Boring	: 13.0 ft

Drilling Company	: Frontz Drilling
Driller	: Jeremy Leckrone
Designation of Drill	: Geoprobe 6620DT
Type of Drill Rig	: Direct Push Technology
Geologist	: Amanda Trenton
Oversight Company	: SAIC
Borehole Diameter	: 2"
Sampling Equipment	: 1.5" x 4' Long Acetate Liner
	: 2" x 4' Dual Tube
	: 3" Hand Auger

Depth in feet	USCS Symbol	USCS Graphic	Description	Analyses	Recovery	Collection Interval	Comments
0							
1	SP		(0.0' - 7.75') SAND (SP), poorly sorted; 2.5Y3/1 very dark gray; loose; dry; roots/organics throughout from 0.0' - 0.5' bgs. 1.2' Color is 2.5Y5/4 light olive brown; medium stiff.	ATAsb-006-5127-SO, ATAsb-006-6080-FD, and ATAsb-006-6082-QA collected on 02/24/10 at 1053 for TAL Metals + Hg and Explosives.	1.0'/1.0'		Soil Color Chart Munsell 2000 Rev. Ed.
2							
3				Sample ATAsb-006-5128-SO collected from 1.0' - 4.0' on 02/24/10 at 1115 for TAL Metals + Hg and Explosives.	1.6'/3.0'		
4							
5			4.5' Stiff; introduction of trace quartzose gravel, <1/4", subrounded.	Sample ATAsb-006-5129-SO collected from 4.0' - 7.0' on 02/24/10 at 1120 for TAL Metals + Hg and Explosives.	1.4'/3.0'		
6							
7							
8	GP		(7.75' - 8.0') Subangular GRAVEL (GP); 1/2" - 3/4"; medium dense; dry.		2.2'/3.0'		
9	SW		(8.0' - 13.0') Fine SAND (SW); 10YR5/6 yellowish brown; loose; dry; nonplastic. 9.5' Medium dense.	Sample ATAsb-006-5130-SO collected from 7.0' - 13.0' on 02/24/10 at 1135 for TAL Metals + Hg and Explosives.			
10							
11							
12			(11.6' - 11.8') Moist. (12.5' - 13.0') Wet.		3.0'/3.0'		
13			Boring terminated at 13.0 ft bgs.				Coordinate System: NAD 83

Boring backfilled with sodium bentonite chips and hydrated.
0.0' - 1.0' sampled using a 3" hand auger and triangular subsample procedure for explosives as presented in Section 4.5.2.1.1 of the Facility-Wide SAP.
Samples were composited and homogenized for all analyses.

ATAsb-006

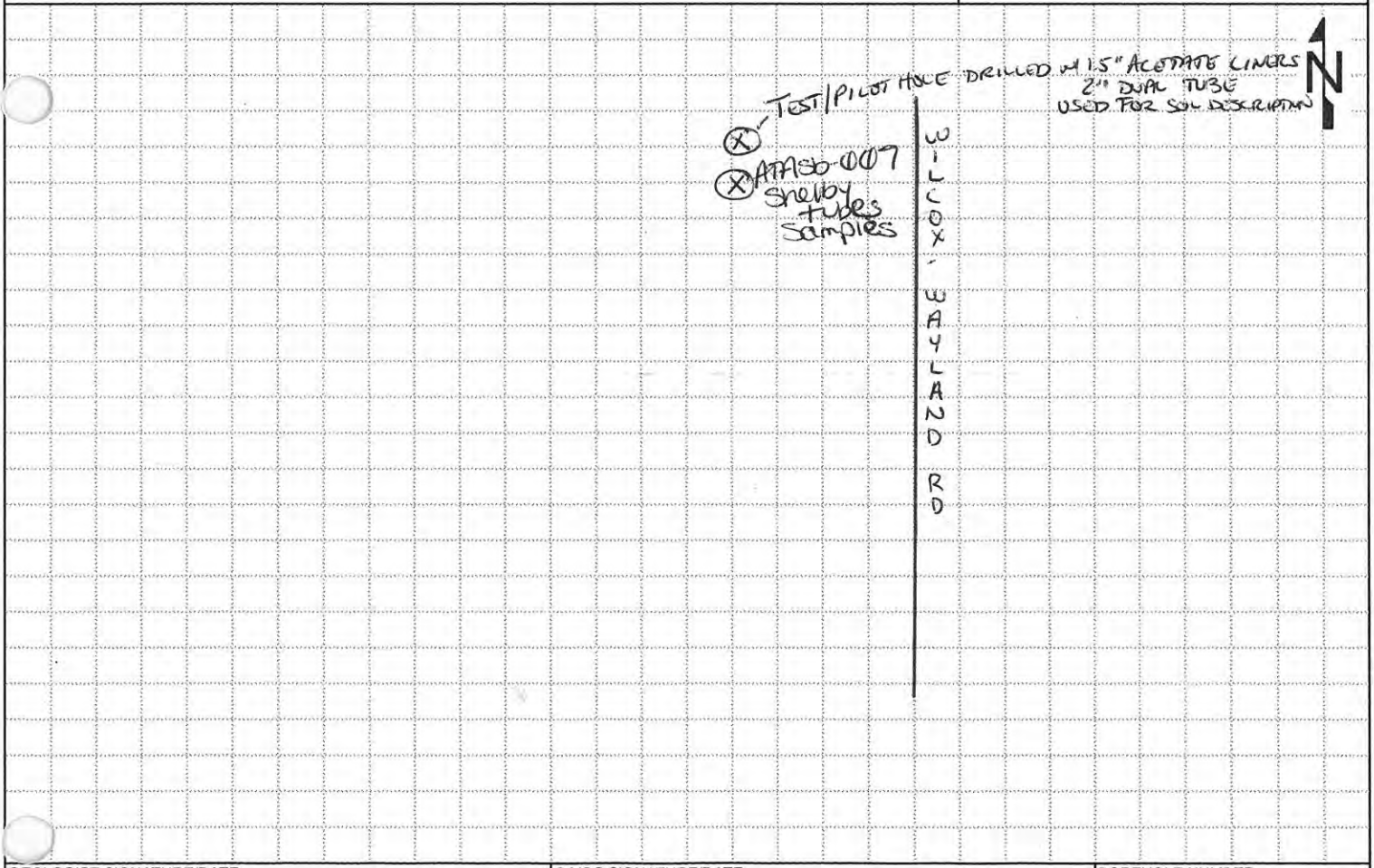
HTRW DRILLING LOG

	DISTRICT: USACE - Louisville	BOREHOLE NUMBER: ATASb-007
1. COMPANY NAME: SAIC	2. DRILLING SUBCONTRACTOR: Frontz Drilling	SHEET 1 OF 2
3. PROJECT: RVAAP PBA08 RI	4. LOCATION: RVAAP 8451 State Route 5 Ravenna, OH 44266	
5. NAME OF DRILLER: Jeremy Leckrone	6. MAKE/MODEL OF DRILL: Geoprobe 6620 DT	
7. SIZES AND TYPES OF SAMPLING EQUIPMENT: 4¼" ID Hollow Stem Augers; 28" x 3" Shelby Tubes	8. BOREHOLE LOCATION: 556047.1826; 2361609.1200	
	9. SURFACE ELEVATION/DATUM: NAD 83	
	10. DRILL DATE/TIME: 02/24/10 STARTED: 1415 COMPLETED: 1541	
	15. DEPTH GROUNDWATER ENCOUNTERED: 13 FT	
	16. DEPTH TO WATER/ELAPSED TIME AFTER BOREHOLE COMPLETION: NA	
12. OVERBURDEN THICKNESS: 13 FT		
13. DEPTH DRILLED INTO BEDROCK: NA	17. OTHER WATER LEVEL MEASUREMENTS (INLCLUDE DATE/TIME): NA	
14. TOTAL DEPTH OF BOREHOLE: 13 FT		
18. GEOTECHNICAL SAMPLES: UNDISTURBED: 2 DISTURBED: 0	19. TOTAL NUMBER OF CORE BOXES: NA	
20. CHEMICAL SAMPLES: CHEM: NA RAD: NA OTHER: NA	21. TOTAL CORE RECOVERY %: NA	
22. DISPOSITION OF BOREHOLE: DATE STARTED/INSTALLED: 02/24/10; 1415	DATE COMPLETED/ABANDONED: 02/24/10; 1541	

BACKFILL TYPE: ☐ GROUT ☑ BENTONITE ☐ TEMPORARY WELL POINT ☐ MONITORING WELL

23. NOTES: BKG: ≤ Background; BGS: Below Ground Surface; CPM: Counts per Minute; PPM: Parts per Million; ▽ : First Water Encountered; ▼ : Static Water Level; NA: Not Applicable

LOCATION SKETCH/COMMENTS — **SCALE:** None



GEOLOGIST SIGNATURE/DATE	QA/QC SIGNATURE/DATE	BOREHOLE NUMBER
Amanda Trenton 02/24/10	3/12/10	ATASb-007

US Army Corps of Engineers
Louisville District

SAIC From Science to Solutions

RVAAP-48
Anchor Test Area
ATAsb-007

RVAAP PBA 2008 Remedial Investigation
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266
Portage County

Start Date	: 02/24/10; 1415
End Date	: 02/24/10; 1541
Northing Coord.	: 556047.1826
Easting Coord.	: 2361609.1200
Total Depth of Boring	: 13.0 ft

Drilling Company	: Frontz Drilling
Driller	: Jeremy Leckrone
Designation of Drill	: Geoprobe 6620DT
Type of Drill Rig	: Direct Push Technology
Geologist	: Amanda Trenton
Oversight Company	: SAIC
Borehole Diameter	: 8"
Sampling Equipment	: 4.25" Hollow Stem Augers
	: 28" x 3" Shelby Tube

Depth in feet	USCS Symbol	USCS Graphic	Description	Analyses	Recovery	Collection Interval	Comments
0	SP		(0.0' - 8.0') Poorly sorted SAND (SP); little Clay; 2.5Y3/1 very dark gray; loose; dry; roots and organics from 0.0' - 0.5' bgs. 1.25' Color is 2.5Y5/4 light olive brown; medium stiff. 4.0' Introduction of trace quartzose gravel, 1/4", subrounded; stiff.	Shelby Tube ATAsb-007-5131-SO collected from 4.0' - 4.9' on 02/24/10 at 1445 for Porosity, Bulk Density, Moisture Content, Total Organic Carbon, Permeability, and Grain Size Fraction Analysis. (Sheby Tube Refusal at 4.9')	0.9'/2.0'		Soil Color Chart Munsell 2000 Rev. Ed.
8	SW		(8.0' - 13.0') Fine SAND (SW); 10YR5/6 yellowish brown; loose; dry; nonplastic. 9.5' Medium Dense. 13.0' - Wet.	Shelby Tube ATAsb-007-5132-SO collected from 10.0' - 12.0' on 02/24/10 at 1500 for Porosity, Bulk Density, Moisture Content, Total Organic Carbon, Permeability, and Grain Size Fraction Analysis.	2.0'/2.0'		
13			Boring terminated at 13.0 ft bgs.				Coordinate System: NAD 83

Boring backfilled with sodium bentonite chips and hydrated.
Shelby tubes sealed with wax and capped.

ATAsb-007

HTRW DRILLING LOG

DISTRICT	BOREHOLE NUMBER
USACE - Louisville	ATASb-008

1. COMPANY NAME	2. DRILLING SUBCONTRACTOR	SHEET 1 OF 2
SAIC	Frontz Drilling	

3. PROJECT RVAAP PBA08 RI	4. LOCATION RVAAP 8451 State Route 5 Ravenna, OH 44266
5. NAME OF DRILLER Jeremy Leckrone	6. MAKE/MODEL OF DRILL Geoprobe 6626 DT
7. SIZES AND TYPES OF SAMPLING EQUIPMENT 3" 2" HAND AUGER 1.5" x 4' ACETATE LINER 2" DUAL TUBE	8. BOREHOLE LOCATION 5556009.26 · 2361587.90 9. SURFACE ELEVATION/DATUM 889.44 / NAD83 10. DRILL DATE/TIME STARTED: 02/24/18 1213 COMPLETED: 1300 15. DEPTH GROUNDWATER ENCOUNTERED 11.0 16. DEPTH TO WATER/ELAPSED TIME AFTER BOREHOLE COMPLETION NA
12. OVERBURDEN THICKNESS 13+FT	
13. DEPTH DRILLED INTO BEDROCK NA	17. OTHER WATER LEVEL MEASUREMENTS (INLCLUDE DATE/TIME) NA
14. TOTAL DEPTH OF BOREHOLE 13FT	

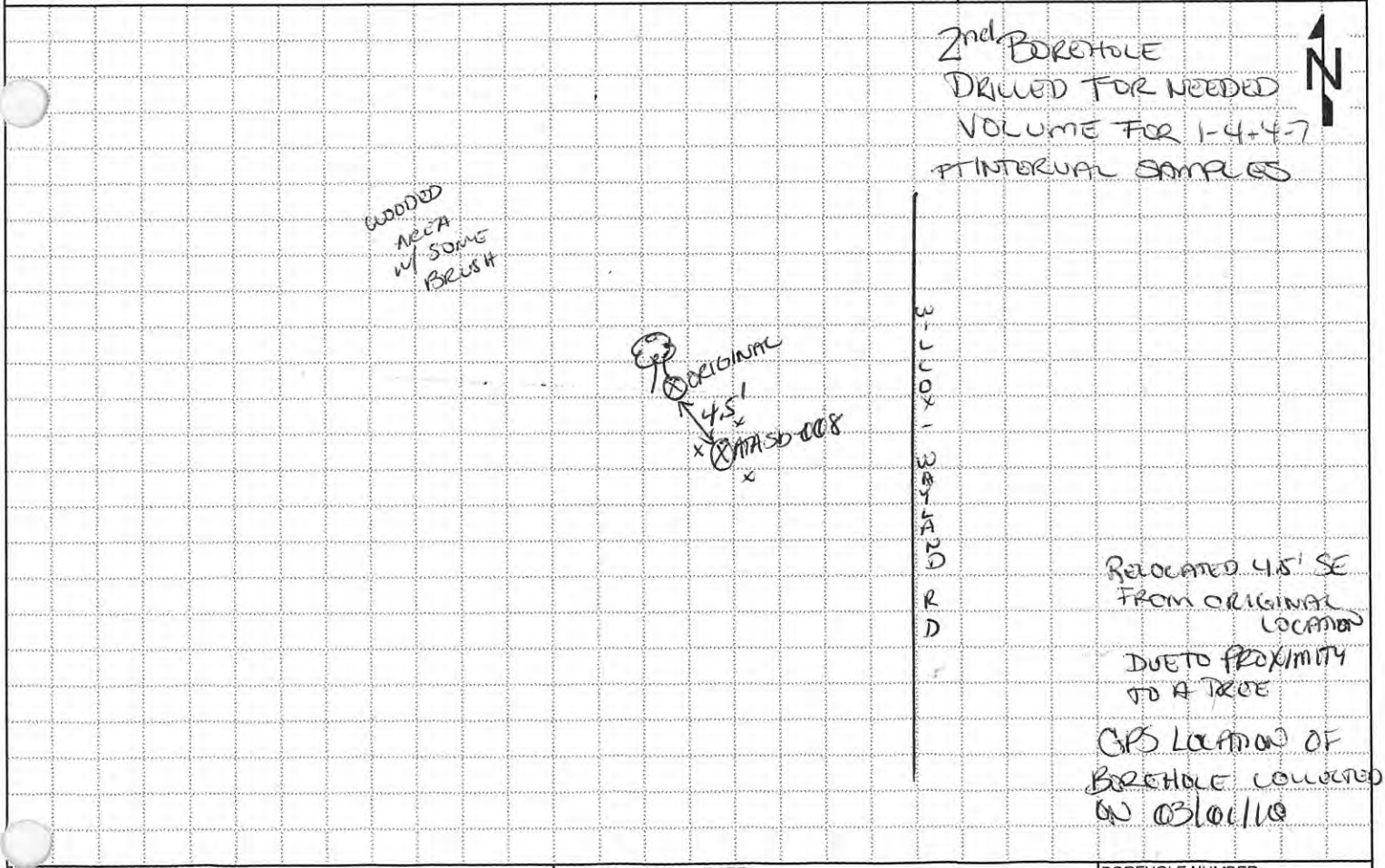
18. GEOTECHNICAL SAMPLES	UNDISTURBED: NA	DISTURBED: NA	19. TOTAL NUMBER OF CORE BOXES NA	
20. CHEMICAL SAMPLES	CHEM: Full Suite	RAD: NA	OTHER: NA	21. TOTAL CORE RECOVERY % NA
22. DISPOSITION OF BOREHOLE	DATE STARTED/INSTALLED: 02/24/18 ; 1213		DATE COMPLETED/ABANDONED: 02/24/18 ; 1300	

BACKFILL TYPE: ☐ GROUT ☑ BENTONITE ☐ TEMPORARY WELL POINT ☐ MONITORING WELL

23. NOTES BKG: ≤ Background BGS: Below Ground Surface CPM: Counts per Minute PPM: Parts per Million

▽ : First Water Encountered ▼ : Static Water Level NA: Not Applicable

LOCATION SKETCH/COMMENTS **SCALE:** None



GEOLOGIST SIGNATURE/DATE	QA/QC SIGNATURE/DATE	BOREHOLE NUMBER
Amanda Trenton 02/24/18	3/12/18	ATASb-008

US Army Corps of Engineers
Louisville District

SAIC From Science to Solutions

RVAAP-48
Anchor Test Area
ATAsb-008

RVAAP PBA 2008 Remedial Investigation
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266
Portage County

Start Date	: 02/24/10; 1213
End Date	: 02/24/10; 1300
Northing Coord.	: 556009.26
Easting Coord.	: 2361587.90
Total Depth of Boring	: 13.0 ft

Drilling Company	: Frontz Drilling
Driller	: Jeremy Leckrone
Designation of Drill	: Geoprobe 6620DT
Type of Drill Rig	: Direct Push Technology
Geologist	: Amanda Trenton
Oversight Company	: SAIC
Borehole Diameter	: 2"
Sampling Equipment	: 1.5" x 4' Long Acetate Liner
	: 2" x 4' Dual Tube
	: 3" Hand Auger

Depth in feet	USCS Symbol	USCS Graphic	Description	Analyses	Recovery	Collection Interval	Comments
0							Soil Color Chart Munsell 2000 Rev. Ed.
1	SP		(0.0' - 7.8') Poorly sorted SAND (SP); little fine 1/4", subrounded Gravel; 2.5Y4/2 dark grayish brown; loose; dry; nonplastic; roots and organics throughout. 1.0' Color is 2.5Y5/4 light olive brown.	ATAsb-008-5133-SO collected from 0.0' - 1.0' on 02/24/10 at 1230 for VOCs, SVOCs, PCBs, Pesticides, Explosives, Propellants, and TAL Metals + Hg.	1.0'/1.0'		
2				ATAsb-008-5134-SO collected from 1.0' - 4.0' on 02/24/10 at 1245 for VOCs, SVOCs, PCBs, Pesticides, Explosives, Propellants, and TAL Metals + Hg. VOCs collected from first core only.	A 1.7'/3.0' B 1.1'/3.0'		
3							
4							
5				ATAsb-008-5135-SO collected from 4.0' - 7.0' on 02/24/10 at 1250 for for VOCs, SVOCs, PCBs, Pesticides, Explosives, Propellants, and TAL Metals + Hg. VOCs collected from first core only.	A 1.2'/3.0' B 1.1'/3.0'		
6							
7							
8	GP SC		(7.8' - 7.9') Subangular 1/2" GRAVEL (GP); dry. (7.9' - 8.15') Sandy CLAY(SC); 10YR5/6 yellowish brown; medium stiff; dry.		2.0'/3.0'		
9			(8.15' - 13.0') Fine to very fine grained SAND (SW); 10YR5/6 yellowish brown; medium dense; dry; nonplastic.				
10	SW			ATAsb-008-5136-SO collected from 7.0' - 13.0' on 02/24/10 at 1300 for VOCs, SVOCs, PCBs, Pesticides, Explosives, Propellants, and TAL Metals + Hg.			
11			(11.0' - 13.0') Wet.		3.4'/3.0'		
12							
13			Boring terminated at 13.0 ft bgs.				Coordinate System: NAD 83

Boring backfilled with sodium bentonite chips and hydrated.
0.0' - 1.0' sampled using a 3" hand auger and triangular subsample procedure for explosives as presented in Section 4.5.2.1.1 of the Facility-Wide SAP.
Samples were composited and homogenized for all analyses except VOCs.
Twin boreholes were drilled to obtain volume required for analyses.

ATAsb-008

HTRW DRILLING LOG

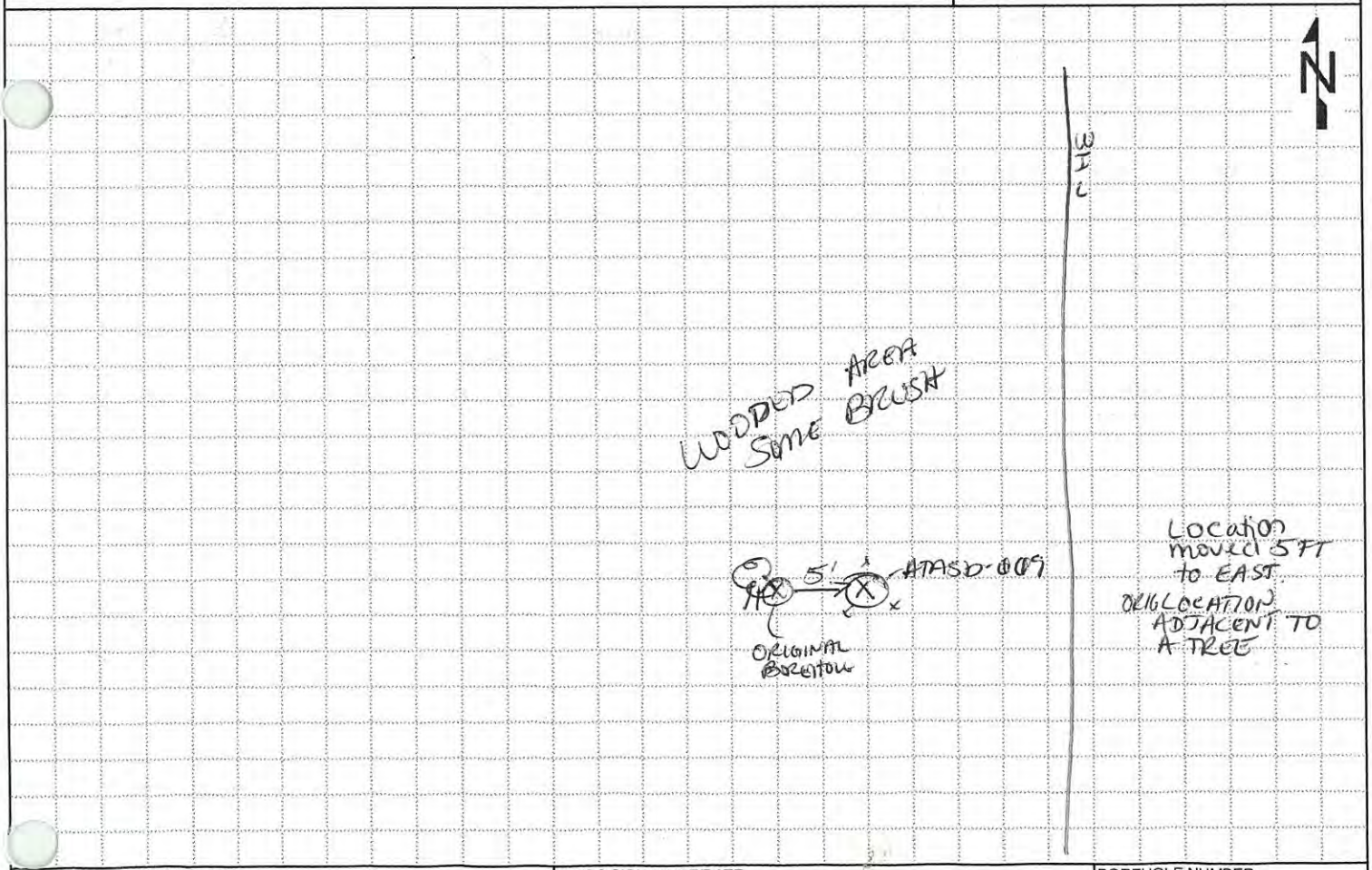
	DISTRICT: USACE - Louisville	BOREHOLE NUMBER: ATASb-009
1. COMPANY NAME: SAIC	2. DRILLING SUBCONTRACTOR: Frontz Drilling	SHEET 1 OF 2
3. PROJECT: RVAAP PBA08 RI	4. LOCATION: RVAAP 8451 State Route 5 Ravenna, OH 44266	
5. NAME OF DRILLER: JEREMY LECKRONE, FRONTZ	6. MAKE/MODEL OF DRILL: Geoprobe 6620 DT	
7. SIZES AND TYPES OF SAMPLING EQUIPMENT: 3" 2 5/8" HAND AUGER; 4' x 1.5" ACETATE LINER; 2" DUAL TUBE	8. BOREHOLE LOCATION: 555980.67 : 2361591.56	
	9. SURFACE ELEVATION/DATUM: 888.57 / NAD83	
	10. DRILL DATE/TIME: 02/24/10 STARTED: 1310 COMPLETED: 1410	
	15. DEPTH GROUNDWATER ENCOUNTERED: 8.7FT BGS	
	16. DEPTH TO WATER/ELAPSED TIME AFTER BOREHOLE COMPLETION: NA	
12. OVERBURDEN THICKNESS: 13+ FT		
13. DEPTH DRILLED INTO BEDROCK: NA	17. OTHER WATER LEVEL MEASUREMENTS (INLCLUDE DATE/TIME): NA	
14. TOTAL DEPTH OF BOREHOLE: 13 FT BGS		

18. GEOTECHNICAL SAMPLES	UNDISTURBED: NA	DISTURBED: NA	19. TOTAL NUMBER OF CORE BOXES: NA	
20. CHEMICAL SAMPLES	CHEM: MET/EXPL	RAD: NA	OTHER: NA	21. TOTAL CORE RECOVERY %: NA
22. DISPOSITION OF BOREHOLE	DATE STARTED/INSTALLED: 02/24/10 ; 1310		DATE COMPLETED/ABANDONED: 02/24/10 ; 1410	

BACKFILL TYPE: ☐ GROUT ☑ BENTONITE ☐ TEMPORARY WELL POINT ☐ MONITORING WELL

23. NOTES
BKG: ≤ Background BGS: Below Ground Surface CPM: Counts per Minute PPM: Parts per Million
▽ : First Water Encountered ▼ : Static Water Level NA: Not Applicable

LOCATION SKETCH/COMMENTS **SCALE:** None



GEOLOGIST SIGNATURE/DATE	QA/QC SIGNATURE/DATE	BOREHOLE NUMBER
Amanda Trentm 02/24/10	3/12/10	ATASb-009

US Army Corps of Engineers
Louisville District

SAIC From Science to Solutions

RVAAP-48
Anchor Test Area
ATAsb-009

RVAAP PBA 2008 Remedial Investigation
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266
Portage County

Start Date	: 02/24/10; 1310
End Date	: 02/24/10; 1410
Northing Coord.	: 555980.67
Easting Coord.	: 2361591.56
Total Depth of Boring	: 13.0 ft

Drilling Company	: Frontz Drilling
Driller	: Jeremy Leckrone
Designation of Drill	: Geoprobe 6620DT
Type of Drill Rig	: Direct Push Technology
Geologist	: Amanda Trenton
Oversight Company	: SAIC
Borehole Diameter	: 2"
Sampling Equipment	: 1.5" x 4' Long Acetate Liner
	: 2" x 4' Dual Tube
	: 3" Hand Auger

Depth in feet	USCS Symbol	USCS Graphic	Description	Analyses	Recovery	Collection Interval	Comments
0–1	CL		(0.0' - 1.5') CLAY (CL); little Silt; 2.5Y5/3 brown with 10Y5/6 yellowish brown and trace 10YR5/1 gray mottling; soft; damp; medium plasticity; some roots, wood, and decaying organics from 0.0' - 1.25'.	ATAsb-009-5137-SO collected from 0.0' - 1.0' on 02/24/10 at 1325 for TAL Metals + Hg and Explosives.	1.0'/1.0'		Soil Color Chart Munsell 2000 Rev. Ed.
1–3	CL		(1.5' - 3.4') CLAY (CL); little Silt; trace Gravel, subangular, <1/4"; 10YR4/4 dark yellowish brown and 10YR5/2 grayish brown mottling; medium stiff; dry; medium plasticity.	ATAsb-009-5138-SO collected from 1.0' - 4.0' on 02/24/10 at 1350 for TAL Metals + Hg and Explosives.	2.5'/3.0'		
3–5	CL		(3.4' - 5.5') CLAY (CL); some Silt; trace fine Gravel, subangular, <1/4"; 10YR5/4 yellowish brown with little 10YR8/2 very pale brown; stiff; dry; low plasticity.	ATAsb-009-5139-SO, ATAsb-009-6081-FD, and ATAsb-009-6083-QA collected from 4.0' - 7.0' on 02/24/10 at 1355 for TAL Metals + Hg and Explosives.	3.0'/3.0'		
5–13	SW		(5.5' - 13.0') Fine SAND (SW); 10YR5/6 yellowish brown; loose; dry; nonplastic. (8.7' - 13.0') Wet.	ATAsb-009-5140-SO collected from 7.0' - 13.0' on 02/24/10 at 1410 for TAL Metals + Hg and Explosives.	2.5'/3.0' 3.3'/3.0'		
13			Boring terminated at 13.0 ft bgs.				Coordinate System: NAD 83

Boring backfilled with sodium bentonite chips and hydrated.
0.0' - 1.0' sampled using a 3" hand auger and triangular subsample procedure for explosives as presented in Section 4.5.2.1.1 of the Facility-Wide SAP.
Samples were composited and homogenized for all analyses.

ATAsb-009

HTRW DRILLING LOG

	DISTRICT: USACE - Louisville	BOREHOLE NUMBER: ATASb-01Ø
1. COMPANY NAME: SAIC	2. DRILLING SUBCONTRACTOR: Frontz Drilling	SHEET 1 OF 2
3. PROJECT: RVAAP PBA08 RI	4. LOCATION: RVAAP 8451 State Route 5 Ravenna, OH 44266	
5. NAME OF DRILLER: JEREMY LECKRONE; FRONTZ	6. MAKE/MODEL OF DRILL: Geoprobe 6620 DT	
7. SIZES AND TYPES OF SAMPLING EQUIPMENT: 3" & 2" HAND AUGER; 1.5" x 4' ACETATE LINER; 2" DUAL TUBE	8. BOREHOLE LOCATION: 556023.61 ; 2361487.21	
	9. SURFACE ELEVATION/DATUM: ~~NA~~ 896.78 / NAD 83	
	10. DRILL DATE/TIME: 02/24/10 STARTED: 0800 COMPLETED: 0932	
	15. DEPTH GROUNDWATER ENCOUNTERED: 9.0 FT	
	16. DEPTH TO WATER/ELAPSED TIME AFTER BOREHOLE COMPLETION: NA	
12. OVERBURDEN THICKNESS: 13+ FT		
13. DEPTH DRILLED INTO BEDROCK: NA	17. OTHER WATER LEVEL MEASUREMENTS (INLCLUDE DATE/TIME): NA	
14. TOTAL DEPTH OF BOREHOLE: 13FT		

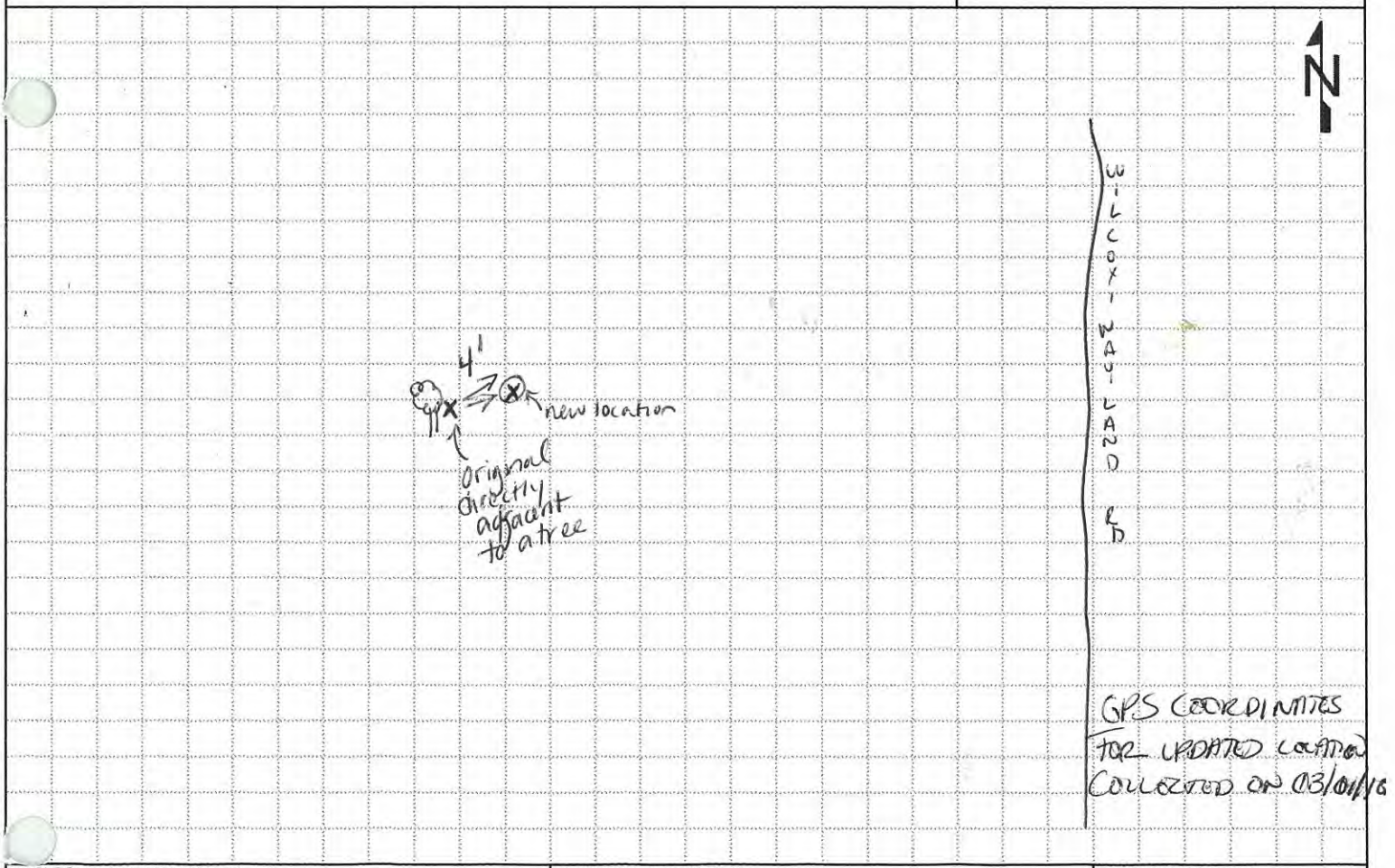
18. GEOTECHNICAL SAMPLES	UNDISTURBED: NA	DISTURBED: NA	19. TOTAL NUMBER OF CORE BOXES: NA
20. CHEMICAL SAMPLES	CHEM: METALS/EXPLOSIVES RAD: NA	OTHER: NA	21. TOTAL CORE RECOVERY %: NA
22. DISPOSITION OF BOREHOLE	DATE STARTED/INSTALLED: 02/24/10; 0800	DATE COMPLETED/ABANDONED: 02/24/10; 0932	

BACKFILL TYPE: ☐ GROUT ☑ BENTONITE ☐ TEMPORARY WELL POINT ☐ MONITORING WELL

23. NOTES: BKG: ≤ Background; BGS: Below Ground Surface; CPM: Counts per Minute; PPM: Parts per Million

▽ : First Water Encountered ▼ : Static Water Level NA: Not Applicable

LOCATION SKETCH/COMMENTS **SCALE:** None



GEOLOGIST SIGNATURE/DATE	QA/QC SIGNATURE/DATE	BOREHOLE NUMBER
Amanda Trenton 02/24/10	3/12/10	ATASb-01Ø

US Army Corps of Engineers
Louisville District

SAIC From Science to Solutions

RVAAP-48
Anchor Test Area
ATAsb-010

RVAAP PBA 2008 Remedial Investigation
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266
Portage County

Start Date	: 02/24/10; 0800
End Date	: 02/24/10; 0932
Northing Coord.	: 556023.61
Easting Coord.	: 2361487.21
Total Depth of Boring	: 13.0 ft

Drilling Company	: Frontz Drilling
Driller	: Jeremy Leckrone
Designation of Drill	: Geoprobe 6620DT
Type of Drill Rig	: Direct Push Technology
Geologist	: Amanda Trenton
Oversight Company	: SAIC
Borehole Diameter	: 2"
Sampling Equipment	: 1.5" x 4' Long Acetate Liner
	: 2" x 4' Dual Tube
	: 3" Hand Auger

Depth in feet	USCS Symbol	Description	Analyses	Recovery	Collection Interval	Comments
0	CL	(0.0' - 2.25') CLAY (CL); little Silt; trace fine Sand; 10YR5/3 brown with 7.5YR4/6 strong brown and 10YR6/1 gray mottling; soft; damp; medium plasticity; organics (wood, roots, decaying organics) throughout.	ATAsb-010-5141-SO and MS/MSD collected from 0.0' - 1.0' on 02/24/10 at 0822 for TAL Metals + Hg and Explosives.	1.0'/1.0'		Soil Color Chart Munsell 2000 Rev. Ed.
1						
2		(2.25' - 3.0') No Sand, trace fine Gravel, 1/4" - 3/8"; medium stiff; 10YR4/3 brown.	ATAsb-010-5142-SO collected from 1.0' - 4.0' on 02/24/10 at 0900 for TAL Metals + Hg and Explosives.	2.55'/3.0'		
3	CL	(3.0' - 3.75') CLAY (CL); some very fine Sand; trace fine Gravel, 1/4" - 3/8", subangular; water in Gravel pore space; 10YR4/4 dark yellowish brown; medium stiff; damp; medium plasticity.				
4	SW	(3.75' - 4.0') Fine to medium SAND (SW); some Clay lenses; 10YR5/3 brown; medium dense; dry; nonplastic; trace roots thoughout.				
5	CL	(4.0' - 6.2') CLAY (CL); some Silt; trace Gravel, subangular, <1/4"; 2.5Y6/3 light yellowish brown; stiff; dry; low plasticity. (5.5' - 6.2') Introduction of fine Sand lenses; sand content increases with depth.	ATAsb-010-5143-SO collected from 4.0' - 7.0' on 02/24/10 at 0923 for TAL Metals + Hg and Explosives.	3.0'/3.0'		
6		(6.2' - 13.0') Fine sand (SW); loose; 10YR5/6 yellowish brown; dry; nonplastic.				
7		(7.4' - 7.6') Clay lens.				
8		(7.9' - 8.0') Clay lens.		2.6'/3.0'		
9	SW	(9.0' - 12.0') Wet to moist.				
10			ATAsb-010-5144-SO collected from 7.0' - 13.0' on 02/24/10 at 0932 for TAL Metals + Hg and Explosives.			
11				3.0'/3.0'		
12		(12.0' - 13.0') Moist.				
13		Boring terminated at 13.0 ft bgs.				Coordinate System: NAD 83

Boring backfilled with sodium bentonite chips and hydrated.
0.0' - 1.0' sampled using a 3" hand auger and triangular subsample procedure for explosives as presented in Section 4.5.2.1.1 of the Facility-Wide SAP.
Samples were composited and homogenized for all analyses.

ATAsb-010

HTRW DRILLING LOG

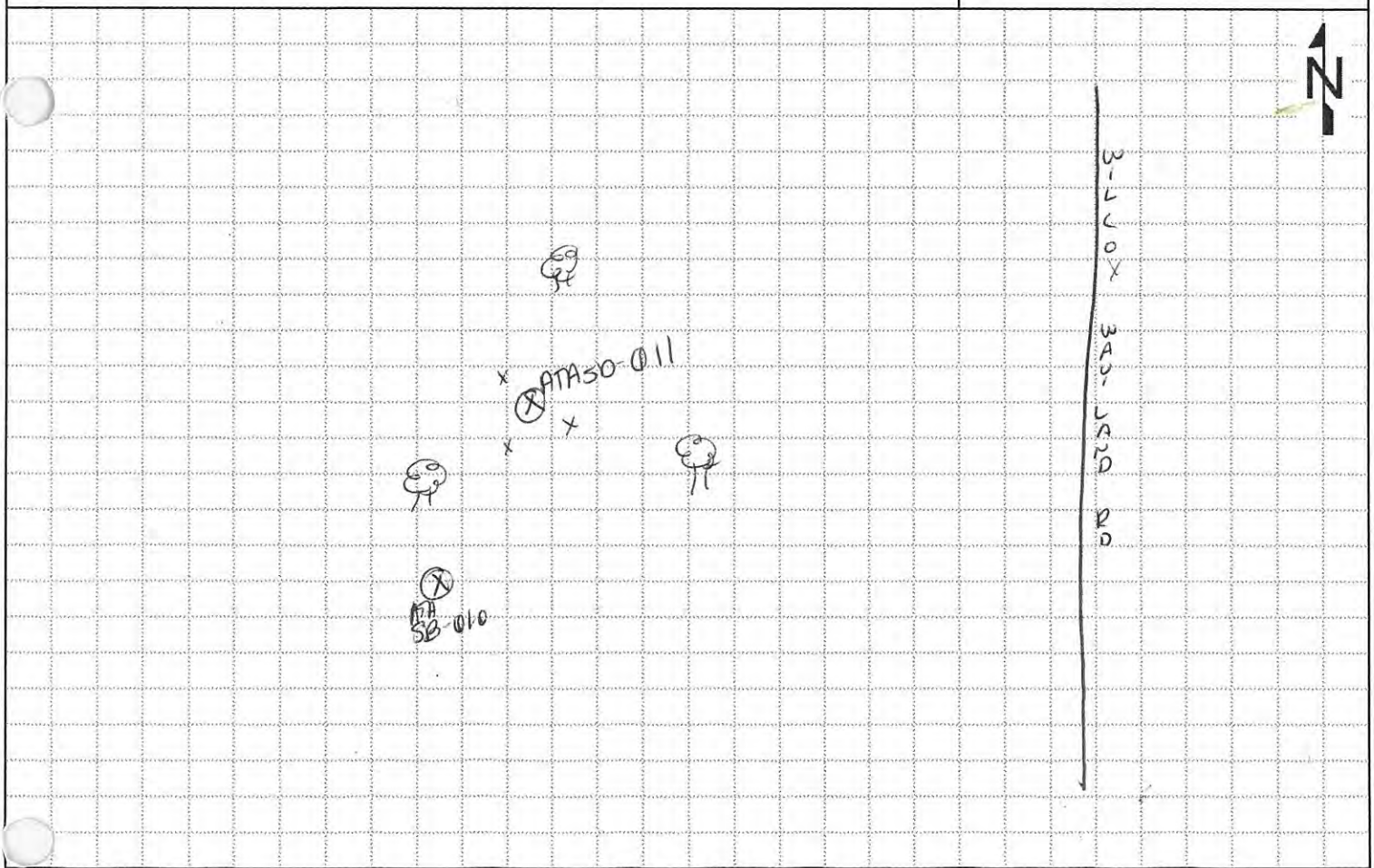
	DISTRICT: USACE - Louisville	BOREHOLE NUMBER: ATA SB-011
1. COMPANY NAME: SAIC	2. DRILLING SUBCONTRACTOR: Frontz Drilling	SHEET 1 OF 2
3. PROJECT: RVAAP PBA08 RI	4. LOCATION: RVAAP 8451 State Route 5 Ravenna, OH 44266	
5. NAME OF DRILLER: JEREMY LECKRONE; FRONTZ	6. MAKE/MODEL OF DRILL: Geoprobe 6620 DT	
7. SIZES AND TYPES OF SAMPLING EQUIPMENT: 2" HAND AUGER; 1.5" x 4' ACETATE LINER	8. BOREHOLE LOCATION: 23 5560064.2249 / 2361513.1138	
	9. SURFACE ELEVATION/DATUM: NAD 83	
	10. DRILL DATE/TIME: 02/24/10 STARTED: 0940 COMPLETED: 1045	
	15. DEPTH GROUNDWATER ENCOUNTERED: 10.1 FT	
	16. DEPTH TO WATER/ELAPSED TIME AFTER BOREHOLE COMPLETION: NA	
12. OVERBURDEN THICKNESS: 13+ FT		
13. DEPTH DRILLED INTO BEDROCK: NA	17. OTHER WATER LEVEL MEASUREMENTS (INLCLUDE DATE/TIME): NA	
14. TOTAL DEPTH OF BOREHOLE: 13 FT		
18. GEOTECHNICAL SAMPLES: UNDISTURBED: NA DISTURBED: NA	19. TOTAL NUMBER OF CORE BOXES: NA	
20. CHEMICAL SAMPLES: CHEM: EXPL/METALS RAD: NA OTHER:	21. TOTAL CORE RECOVERY %: NA	
22. DISPOSITION OF BOREHOLE: DATE STARTED/INSTALLED: 02/24/10 ; 0940	DATE COMPLETED/ABANDONED: 02/24/10 ; 1045	

BACKFILL TYPE: ☐ GROUT ☑ BENTONITE ☐ TEMPORARY WELL POINT ☐ MONITORING WELL

23. NOTES: BKG: ≤ Background; BGS: Below Ground Surface; CPM: Counts per Minute; PPM: Parts per Million

▽ : First Water Encountered ▼ : Static Water Level NA: Not Applicable

LOCATION SKETCH/COMMENTS — **SCALE:** None



GEOLOGIST SIGNATURE/DATE	QA/QC SIGNATURE/DATE	BOREHOLE NUMBER
Amanda Frentzo 02/24/10	3/12/10	ATASb-011

US Army Corps of Engineers
Louisville District

SAIC From Science to Solutions

RVAAP-48
Anchor Test Area
ATAsb-011

RVAAP PBA 2008 Remedial Investigation
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, Ohio 44266
Portage County

Start Date	: 02/24/10; 0940
End Date	: 02/24/10; 1045
Northing Coord.	: 556064.2249
Easting Coord.	: 2361513.1138
Total Depth of Boring	: 13.0 ft

Drilling Company	: Frontz Drilling
Driller	: Jeremy Leckrone
Designation of Drill	: Geoprobe 6620DT
Type of Drill Rig	: Direct Push Technology
Geologist	: Amanda Trenton
Oversight Company	: SAIC
Borehole Diameter	: 2"
Sampling Equipment	: 1.5" x 4' Long Acetate Liner
	: 2" x 4' Dual Tube
	: 3" Hand Auger

Depth in feet	USCS Symbol	USCS Graphic	Description	Analyses	Recovery	Collection Interval	Comments
0–1	CL		(0.0' - 2.0') CLAY (CL); little very fine Sand; trace Silt; 2.5Y6/4 light yellowish brown with 10YR5/6 yellowish brown and 10YR5/1 gray mottling; very soft; moist to wet from surface snow melt, moisture decreases with depth; medium plasticity; many fine roots throughout.	ATAsb-011-5145-SO collected from 0.0' - 1.0' on 02/24/10 at 1000 for TAL Metals + Hg and Explosives.	1.0'/1.0'		Soil Color Chart Munsell 2000 Rev. Ed.
2–3	CL		(2.0' - 3.25') CLAY (CL); little Silt; trace Gravel, <1/4", subangular; 10YR4/4 dark yellowish brown with 10YR5/2 grayish brown mottling; medium stiff; dry; medium plasticity.	ATAsb-011-5146-SO collected from 1.0' - 4.0' on 02/24/10 at 1024 for TAL Metals + Hg and Explosives.	2.45'/3.0'		
4–5	CL		(3.25' - 5.9') CLAY (CL); some Silt; trace fine Gravel, subangular, <1/4"; 10YR4/2 dark grayish brown with little 10YR8/2 very pale brown; medium stiff; dry; low plasticity; crumbly; increasing 10YR8/2 with depth. (4.5' - 5.9') Stiff.	ATAsb-011-5147-SO collected from 4.0' - 7.0' on 02/24/10 at 1045 for TAL Metals + Hg and Explosives.	3.0'/3.0'		
6–13	SW		(5.9' - 13.0') Fine SAND (SW); 10YR5/6 yellowish brown; loose; dry; nonplastic. (9.7' - 10.1') Moist. (10.1' - 13.0') Wet to moist (moisture content slightly decreases with depth).	ATAsb-011-5148-SO collected from 7.0' - 13.0' on 02/24/10 at 1052 for TAL Metals + Hg and Explosives.	2.65'/3.0' 2.45'/3.0'		
13			Boring terminated at 13.0 ft bgs.				Coordinate System: NAD 83

Boring backfilled with sodium bentonite chips and hydrated.
0.0' - 1.0' sampled using a 3" hand auger and triangular subsample procedure for explosives as presented in Section 4.5.2.1.1 of the Facility-Wide SAP.
Samples were composited and homogenized for all analyses.

ATAsb-011

ASBESTOS VISUAL INSPECTION REPORT

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ASBESTOS VISUAL INSPECTION REPORT

AREA OF CONCERN: ANCHOR TEST AREA

DATE INSPECTED (MM/DD/YY): 09-26-11 TIME: 1131 - 1200

FIELD OBSERVATIONS ~ description of ACM identified found (if any), initial determination if ACM is friable, approximate location of ACM. If no ACM is identified at the AOC, please note in this section:

Large mound on map. Unknown content
Needs further characterization
No visably discernable asbestos material noted.

Heavy shrubs, grass, and vegetation throughout area, obsuring visible inspection of the ground. Former roads, buildings, and walk-ways partially to completely overgrown

INITIAL CORRECT LINE(S)

KRB I HAVE PERFORMED A VISUAL INSPECTION OF LOCATIONS BELIEVED TO POTENTIALLY HAVE ASBESTOS CONTAINING MATERIAL WITHIN THE AREA OF CONCERN. IN THOSE LOCATIONS, THERE WAS NO VISABLY DISCERNABLE ASBESTOS CONTAINING MATERIAL.

_____ I HAVE VISUALY INSPECTED THE RVAAP AOC AND DID NOT IDENTIFY ANY INDICATIONS THAT ASBESTOS CONTAINING MATERIAL WAS PREVIOUSLY DISPOSED AT THE AOC.

_____ I HAVE VISUALY INSPECTED THE RVAAP AOC STATED ABOVE AND IDENTIFIED THE ASBESTOS CONTAINING MATERIAL DESCRIBED IN THE FIELD OBSERVATIONS SECTION.

Keith R Bickel 9-26-11

(Signature) (Date)

KEITH R. BICKEL, CHMM, REP, CAHES
LICENSE NO. ES31476
DIAMOND ENVIRONMENTAL, LLC

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APPENDIX B

Project Quality Assurance Summary

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TABLE OF CONTENTS

ATTACHMENT

ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
DoD	United States Department of Defense
FCR	Field Change Request
FS	Feasibility Study
FWSAP	Facility-Wide Sampling and Analysis Plan
FWQAPP	Facility-Wide Quality Assurance Project Plan
IDW	Investigation-Derived Waste
M&TE	Measuring & Testing Equipment
NCR	Nonconformance Report
NELAC	National Environmental Laboratory Accreditation Conference
Ohio EPA	Ohio Environmental Protection Agency
OJT	On-the-Job Training
OSHA	Occupational Safety and Health Administration
PBA08 SAP	Performance-Based Acquisition 2008 Sampling and Analysis Plan
QA	Quality Assurance
QC	Quality Control
QSM	Quality Systems Manual
RI	Remedial Investigation
RVAAP	Ravenna Army Ammunition Plant
SAIC	Science Applications International Corporation
SAP	Sampling and Analysis Plan
TAR	Training Assignment Record
TestAmerica	TestAmerica Laboratories, Inc.
USACE	United States Army Corps of Engineers
USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency

B.0 PROJECT QUALITY ASSURANCE SUMMARY

This summary presents the actions and methodologies undertaken to meet the quality assurance/quality control (QA/QC) goals and objectives during the remedial investigation (RI) at the Anchor Test Area (RVAAP-48) area of concern (AOC) within the Ravenna Army Ammunition Plant (RVAAP). These goals and objectives were established in the following:

- *Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant* (USACE 2001), herein referred to as the FWSAP;
- *Performance-Based Acquisition 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1* (USACE 2009), herein referred to as the PBA08 SAP;
- Science Applications International Corporation (SAIC) QA Program; and
- United States Army Corps of Engineers (USACE), Louisville District QA requirements.

The RI was conducted under one mobilization. The QA/QC objectives were implemented through project-specific procedures and requirements, focusing on field and analytical laboratory activities and project administration.

B.1 FIELD QUALITY ASSURANCE

B.1.1 Readiness Review

SAIC conducted an internal readiness review on January 28, 2010. The purpose of the readiness review was to ensure the following:

1. Project documents [e.g., sampling and analysis plans (SAPs), field change requests (FCRs)] and procedures were approved, controlled, and properly distributed;
2. Assigned personnel were trained prior to field activities;
3. Mobilization and site logistics were established;
4. Laboratories were ready to accept samples;
5. Subcontractors were ready to begin work; and
6. QA systems were implemented.

All elements of the readiness review were completed prior to initiating field activities. The readiness review was approved by the SAIC QA/QC Officer and Project Manager.

B.1.2 Procedures

Standard operating methods for field activities are incorporated into the governing documents for the project. The FWSAP describes the overall approach and methodologies to be used for projects at RVAAP, and the PBA08 SAP details project-specific requirements for field implementation. USACE and the Ohio Environmental Protection Agency (Ohio EPA) reviewed and approved these documents prior to implementation of field activities.

Clarifications and/or planned deviations from either plan were documented as FCRs. Prior to execution of a field change, each FCR was reviewed and approved by USACE and Ohio EPA. A description of each FCR is presented in Section B.3.1. Copies of FCRs issued during the RI are included in Attachment 1 to this appendix.

Any variances from the approved plans or FCRs were documented as Nonconformance Reports (NCRs). There were no variances identified during the implementation of the RI at Anchor Test Area.

B.1.3 Training

Field team personnel were trained in all procedures applicable to assigned tasks. Training was accomplished through a combination of project kickoff meetings, reading assignments, and on-the-job (OJT) training. Training was documented by the completion of Training Assignment Records (TARs) and verified by the SAIC Field Operations Manager. Copies of TARs and training certificates are in the project file. Copies of training records required for Occupational Safety and Health Administration (OSHA) and United States Department of Transportation (USDOT) compliance were on-site during field activities.

B.1.4 Equipment Calibration

Various types of measuring and testing equipment (M&TE) were used during the field investigation. All M&TE was categorized and assigned unique identifiers. An inventory was maintained in an M&TE logbook.

Only equipment with verifiable traceability to nationally recognized standards was used in the field. Instruments were calibrated in accordance with manufacturer's instructions and frequency. Calibration activities and results were documented in the M&TE logbook, as well as source information for all calibration standards and reagents.

Equipment that did not calibrate within manufacturer’s specifications or operate properly in the field was taken out of service and replaced promptly. Replacement equipment was placed into service upon calibration. The M&TE logbook maintains documentation of all replaced equipment.

B.1.5 Quality Control Samples

Field QC samples collected for this project included trip blanks, equipment rinsate blanks, source water, and field duplicates, as specified in the PBA08 SAP. Field QA split samples were also collected and sent to a USACE contracted QA laboratory, RTI Laboratories, Inc., of Livonia, Michigan. The USACE QA laboratory performed an independent analysis and evaluation of analytical results by the contracted laboratory. Appendix C of the RI/feasibility study (FS) report presents an evaluation of data quality and analytical performance with respect to field QC results. Appendix D presents field QC data and analyses of QC samples.

B.1.6 Field Records

Field data, observations, activities, and information were recorded on daily activity logs and sampling forms. These logs and forms were bound in 3-ring binders. Each field team possessed a binder with applicable sampling forms and activity logs. This ensured all necessary data were entered consistently. Logbook entries were checked for accuracy and completeness by independent reviewers. Field records were collected upon completion of the project and maintained by the SAIC Field Operations Manager.

B.2 ANALYTICAL LABORATORY QUALITY ASSURANCE

SAIC subcontracted White Water Associates, Inc., of Amasa, Michigan, who subcontracted TestAmerica Laboratories, Inc. (herein referred to as TestAmerica) of North Canton, Ohio and West Sacramento, California, to perform chemical analysis of samples collected. The laboratories performing the analysis were certified by the National Environmental Laboratory Accreditation Conference (NELAC) and have submitted the Self Declaration Statement for compliance of the United States Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories Version 3.0 requirements. QA split samples were collected and submitted to an independent USACE, Louisville District QA laboratory (RTI Laboratories, Inc., located in Livonia, Michigan).

B.2.1 Readiness Review

Laboratory QA/QC activities were initiated during the readiness review. The readiness review verified the following:

1. Governing documents and approved analytical methods were controlled and properly distributed;
2. The laboratory was scheduled and ready to conduct the analysis;
3. Logistical coordination was established between the laboratory and the field team; and
4. Laboratory QA programs were consistent and compatible with the project requirements.

B.2.2 Procedures

Prior to initiation of analytical support, SAIC outlined project-specific requirements for White Water Associates, Inc. and TestAmerica that included the following:

- Parameters to be measured;
- Analytical methods;
  - Adherence to United States Environmental Protection Agency (USEPA) SW-846 protocols
  - USACE Shell for Analytical Chemistry Requirements, Appendix I EM200-1-3, 1 February 2001
  - DoD QSM for Environmental Laboratories Version 3.0 requirements
  - Louisville QSM Supplement requirements
- Project quantitation goals (sensitivity); and
- Data deliverables requirements.

B.2.3 Laboratory Quality Control

To document laboratory data quality and measure the quality of the analytical process, laboratory QC samples (e.g., method blanks, laboratory control samples, laboratory duplicates, and matrix spike/matrix spike duplicates) and data verification/validation were employed. The results of laboratory QC are discussed in the Data QC Summary Report (Appendix C). Analytical results of laboratory QC samples are included in Appendix D and form the basis of the data verification and validation process (Section B.2.5).

B.2.4 Laboratory Documentation

White Water Associates, Inc. and TestAmerica maintain comprehensive information regarding the entire analytical process. The laboratory delivered summary data packages and electronic deliverables to SAIC consistent with those identified in the USEPA SW-846 protocol for validation and verification. Laboratory QC sample analyses were cross-referenced to the appropriate environmental field sample analyses in the laboratory deliverables.

B.2.5 Data Verification/Validation

Analytical data generated were subjected to data verification by SAIC, as specified in the Facility-Wide Quality Assurance Project Plan (herein referred to as the FWQAPP) (USACE 2001) and the PBA08 SAP. To verify data, analytical results were compared to established criteria to which judgment was rendered regarding the acceptability and qualification of the data (Appendix C). Upon receipt of data packages from the laboratory, the information was subjected to a systematic examination following standardized checklists and procedures to ensure content, presentation, administrative validity, and technical validity. Routine data changes were documented through data change forms. Data deficiencies or formal laboratory-related nonconformances were documented through an NCR process, as required.

In addition to the SAIC data review, a 10% validation of all data will be performed by USACE to prove data usability. This review constitutes comprehensive validation of 10% of the primary dataset, comprehensive validation of the QA split sample dataset, and a comparison of primary sample, field duplicate sample, and field QA split sample information.

B.3 QUALITY ASSURANCE DOCUMENTATION

Primary methods for documenting QA were: (1) completing FCRs requiring and obtaining USACE and Ohio EPA concurrence; and (2) generating NCRs in accordance with SAIC QA procedures. Copies of FCRs completed during the investigation are included in Attachment 1. There were no NCRs generated for Anchor Test Area during the implementation of this RI.

B.3.1 Field Change Control

FCRs were submitted to present the rationale and document approval for any anticipated variances from protocols specified in the FWSAP and/or the PBA08 SAP. The FCRs provided clarification to the scope or refinement in the procedural approach to a specific field activity. All FCRs were reviewed and approved by designated technical representatives of USACE and Ohio EPA prior to implementation. None of the FCRs resulted in an adverse impact to project quality, schedule, or scope. Copies of the approved FCRs are included in Attachment 1. The following four FCRs were executed during RI activities at Anchor Test Area:

- FCR-RVAAP PBA08RI-002 documented the changes in sampling procedures and analytical methods presented in the approved PBA08 SAP;

- FCR-RVAAP PBA08RI-003 documented the use of sodium bentonite chips for backfilling surface and subsurface boreholes;

- FCR-RVAAP PBA08RI-006 revised the investigation-derived waste (IDW) management procedure for this project; and

- FCR-RVAAP PBA08RI-007 increased the survey accuracy for sampling locations from 0.2 ft to 3.0 ft.

B.3.2 Nonconformance Reports

NCRs and/or corrective action reports are generated to identify and correct conditions adverse to quality, as described in the field and laboratory QA plans. No NCRs were generated during the Anchor Test Area RI.

B.4 REFERENCES

USACE (United States Army Corps of Engineers) 2001. *Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio*. March 2001.

USACE 2009. *PBA 2008 Supplemental Investigation Sampling Analysis Plan Addendum No. 1 Ravenna Army Ammunition Plant, Ravenna, Ohio*. December 2009.

ATTACHMENT 1

Field Change Requests

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FIELD CHANGE REQUEST (FCR)

FCR NO. FCR-RVAAP PBA08RI-002 DATE INITIATED 02/17/10
PROJECT PBA 2008 Remedial Investigation
CONTRACT NO. GSA Contract No. W912QR-04-D-0028 Delivery Order No. 0001

REQUESTOR IDENTIFICATION
NAME Heather Miller ORGANIZATION SAIC PHONE 330-573-8571

TITLE SAIC Field Operations Manager SIGNATURE

BASELINE IDENTIFICATION
BASELINE(S) AFFECTED ☐ Cost ☐ Scope ☐ Milestone ☒ Method of Accomplishment

AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION)
PBA 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1.

DESCRIPTION OF CHANGE:
SAIC would like to request the approval of a field change to the following sample procedures and analytical methods presented in the approved RI SAP. This request includes all changes discussed on the 2/8/2010 call with USACE, SAIC and RTI. Table 1 presents the requested changes, the justification and concurrence with RTI (USACE split lab) and the impact of not implementing request.

JUSTIFICATION:

These items are being requested to clarify, adjust, and revise the implementation of the PBA08 RI given new information since its "final" submittal and approval. The attached Table 1 presents the additional information on the justification of each requested change.

IMPACT OF NOT IMPLEMENTING REQUEST:

Please see Table 1 for the impact of each requested change.

PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST:
SAIC Field Manager, SAIC Field Teams, Laboratory and USACE Split Laboratory

COST ESTIMATE ($) 0 ESTIMATOR SIGNATURE No cost impact to USACE
PHONE NA DATE NA

PREVIOUS FCR AFFECTED ☐ YES ☒ NO; IF YES, FCR NO. ___

USACE COTR DATE: 18 FEB 2010

OHIO EPA PROJECT MANAGER DATE: 18 Feb 2010

SAIC H&S MANGER SIGNATURE: Not Applicable DATE: ___

FIELD CHANGE REQUEST (FCR-RVAAP PBA08 RI-002)

Table 1

Item Number	Description of Requested Change	Justification of Change	Impact of Not Implementing	Cost of Not Implementing
1	Nitrate Sampling at Load Line 12 SAIC would like to have surface water and wet sediment samples at Load Line 12 analyzed for nitrates to support assessments presented in the Load Line 12 Groundwater Feasibility Study. Wet sediment and Surface Water samples for nitrate will be analyzed by SW-846, 9056A.	Although nitrates were not identified above screening criteria CUGs in surface water and wet sediments samples, SAIC would like to add nitrates to the list of analytes to support the groundwater FS and verify there are no groundwater impacts to surface waters. These methods will also be consistent with methods used by the USACE split laboratory	At this point, it is assumed there is no groundwater and surface water interface of potential nitrate contamination. The additional samples will confirm or deny this assumption.	No cost impact to USACE.
2	Part II QAPP Table 2-1. Sampling and Analytical Requirements SAIC would like to remove cyanide from the list of parameters for all media.	Cyanide was inadvertently not removed from Table 2-1 after USACE and Ohio EPA provided guidance (in September 2009) that cyanide was not part of the RVAAP full suite of parameters. These methods will also be consistent with methods used by the USACE split laboratory	No documentation that cyanide was not included during the implementation of the RI SAP.	No cost impact to USACE.
3	Part II QAPP Table 2-1. Sampling and Analytical Requirements SAIC would like clarify that 43 of the soil samples and one wet sediment sample presented on Table 2-1 as Metals TAL should have been included as a separate analysis for only total chromium (only). Analysis for total chromium by SW-846, 6020 will be added.	Table 2-1 in the QAAP presented total chromium samples within the Metal TAL samples for wet sediment and soil. Only total chromium and hexavalent chromium are required for chromium speciation samples. As in Section 4.1.3 on page 4-4 of the PBA08 RI Work Plan, field duplicates (and associated splits) samples will not be collected for chromium speciation samples.	Total chromium and all other metals in the TAL metals suite would be reported.	No cost impact to USACE.
4	Part II QAPP Table 2-1. Sampling and Analytical Requirements SAIC would like to: - Add method 3541 to pesticides and PCBs to soil and wet sediment. - Replace method 8310 to 8270C for PAHs	Analytical methods were revised to achieve low detection limits for comparisons to CUGs and/or to meet the requirements of the DOD QSM 3.0.. These methods will also be consistent with methods	Actual analytical methods used not documented during implementation of RI SAP	No cost impact to USACE.

FIELD CHANGE REQUEST (FCR-RVAAP PBA08 RI-002)

Item Number	Description of Requested Change	Justification of Change	Impact of Not Implementing	Cost of Not Implementing
	for soil and wet sediment. - Add the following analytical methods to liquid and solid IDW samples: TCLP VOC: 8260B and 5030B TCLP SVOC: 8270C/3620C/3510C TCLP Pesticides: 8081A/3520C/3510C TCLP Herbicides:8151A/3520C/3510C TCLP Metals: 6010B/7470A Total Cyanide: 9010B	used by the USACE split laboratory.		
5	Part II QAPP Table 2-1, Sampling and Analytical Requirements SAIC would like to clarify that our VOC method of analysis is 8260B/5021.	Analytical method 8260B/5035 requires the use of EnCore or TerraCore samplers which is not consistent with the sampling procedures or containers presented in the PBA08 SAP and QAPP (Table 5-1). These methods will also be consistent with methods used by the USACE split laboratory.	Actual analytical methods used not documented during implementation of RI SAP	No cost impact to USACE.

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FCR NO. FCR-RVAAP PBA08RI-003 DATE INITIATED 02/17/10
PROJECT PBA 2008 Remedial Investigation
CONTRACT NO. GSA Contract No. W912QR-04-D-0028 Delivery Order No. 0001

REQUESTOR IDENTIFICATION
NAME Heather Miller ORGANIZATION SAIC PHONE 330-573-8571

TITLE SAIC Field Operations Manager SIGNATURE H. Miller

BASELINE IDENTIFICATION
BASELINE(S) AFFECTED ☐ Cost ☐ Scope ☐ Milestone ☒ Method of Accomplishment

AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION)
PBA 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1.

DESCRIPTION OF CHANGE:
SAIC requests approval of the following borehole backfilling procedure to supplement guidance presented in the approved PBA 2008 RI SAP.

All discrete surface locations collected with a bucket hand auger, all subsurface boreholes completed using direct push technology, and all geotechnical samples drilled using 4 ¼" hollow stem augers will be backfilled with USACE approved sodium bentonite chips at the completion of sampling activities. Sodium bentonite chips will be added through the augers as they are removed to prevent bridging within the borehole. Care will be taken to ensure that bridging does not occur in any soil boreholes by tamping and thoroughly hydrating the chips with an USACE approved water source every 5 feet until the boring is filled. Each location will be covered lightly with surrounding soil.

JUSTIFICATION:
The PBA 2008 RI SAP and FW SAP do not provide guidance on the abandonment process with respect to surface soil and subsurface direct push boreholes. SAIC requests using abandonment guidance presented in the current Ohio EPA Technical Guidance Manual for Ground Water Investigations, Chapter 9 (February 2009). This document provides guidance that sodium bentonite chips or pellets should be utilized for boreholes completed above the water table, as the use of a cement or cement-bentonite mixture may shrink when installed above the water table.

All geotechnical borings will be completed above the water table. In addition, all surface soil and subsurface direct push borings are anticipated to be completed above the water table. However, if the water table is encountered in surface soil and subsurface direct push borings, sodium-bentonite chips are still the preferred abandonment method, as they will sink through water. This text clarifies SAICs abandonment approach.

IMPACT OF NOT IMPLEMENTING REQUEST:
Surface and subsurface soil borehole (direct push) backfilling activities will not be formally documented/approved.

PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST:
SAIC Field Manager, SAIC Field Teams and Drilling Subcontractor.

COST ESTIMATE ($) 0 ESTIMATOR SIGNATURE No cost impact to USACE
PHONE NA DATE NA

PREVIOUS FCR AFFECTED ☐ YES, ☒ NO; IF YES, FCR NO. ___

USACE COR Nathaniel Peters DATE: 2/17/2010

OHIO EPA PROJECT MANAGER [signature] DATE: 02/18/2010

SAIC H&S MANAGER SIGNATURE Not applicable DATE: ___

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FIELD CHANGE REQUEST (FCR)

FCR NO. FCR-RVAAP PBA08RI-006 DATE INITIATED 02/22/10
PROJECT PBA 2008 Remedial Investigation
CONTRACT NO. GSA Contract No. W912QR-04-D-0028 Delivery Order No. 0001

REQUESTOR IDENTIFICATION
NAME Heather Miller ORGANIZATION SAIC PHONE 330-573-8571

TITLE SAIC Field Operations Manager SIGNATURE

BASELINE IDENTIFICATION
BASELINE(S) AFFECTED ☐ Cost ☐ Scope ☐ Milestone ☒ Method of Accomplishment

AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION)
PBA 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1.

DESCRIPTION OF CHANGE:

SAIC would like to request the approval of a field change to the following IDW procedures and analytical methods presented in the approved RI SAP. Table 1 presents the requested changes, the justification and the impact of not implementing request.

JUSTIFICATION:

These items are being requested to clarify, adjust, and revise the implementation of the PBA08 RI given new information since its "final" submittal and approval. The attached Table 1 presents the additional information on the justification of each requested change.

IMPACT OF NOT IMPLEMENTING REQUEST:

Please see Table 1 for the impact of each requested change.

PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST:
SAIC Field Manager, SAIC Field Teams, Laboratory and USACE Split Laboratory

COST ESTIMATE ($) 0 ESTIMATOR SIGNATURE No cost impact to USACE
PHONE NA DATE NA

PREVIOUS FCR AFFECTED ☐ YES ☒ NO; IF YES, FCR NO. ___

USACE COTR Mark W. Nutter DATE: 2/23/2010

OHIO EPA PROJECT MANAGER DATE: 2/23/2010

SAIC H&S MANGER SIGNATURE NA DATE: 02/22/2010

FIELD CHANGE REQUEST (FCR-RVAAP PBA08RI-006)

Table 1

Item Number	Description of Requested Change	Justification of Change	Impact of Not Implementing	Cost of Not Implementing
1	IDW- PPE and Expendable Sampling Equipment SAIC would like to request that only potentially contaminated PPE and expendable sampling equipment be drummed and disposed as non-hazardous waste. These items would be field screened and segregated as specified in Section 7.1 of the FWSAP. Non-contaminated PPE and expendable sampling equipment will be disposed of in sanitary trash.	The PBA 08 RI SAP does not distinguish between potentially contaminated and non-contaminated expendables/solid waste.	Non-contaminated wastes would have to tracked, labeled, sampled, and disposed of as potentially contaminated material.	No cost impact to USACE.
2	IDW - Soil Cuttings SAIC would like to request combining soil cutting from the various AOCs as a best management practice to reduce the number of partially filled soil IDW drums. One composite IDW sample from all drums containing soil cuttings will be collected in accordance with Section 7.4.1 of the FWSAP and characterized for waste disposal at the end of the field cycle.	SAIC does not anticipate large quantities of soil IDW being generated during the investigation given soil borings will be accomplished using direct push technology. Combining the soil cuttings will maximize the use of each drum and minimize the potential for partially filled drums. Based on the sampling results of the previous investigations at the 17 AOCs, the concentrations of potential COCs in soil would not be classified as hazardous waste.	Many of the drums of IDW soil would contain as little as five gallons of soil.	No cost impact to USACE.

FCR NO. FCR-RVAAP PBA08RI-007 DATE INITIATED 02/22/10
PROJECT PBA 2008 Remedial Investigation
CONTRACT NO. GSA Contract No. W912QR-04-D-0028 Delivery Order No. 0001

REQUESTOR IDENTIFICATION
NAME Heather Miller ORGANIZATION SAIC PHONE 330-573-8571

TITLE SAIC Field Operations Manager SIGNATURE

BASELINE IDENTIFICATION
BASELINE(S) AFFECTED ☐ Cost ☐ Scope ☐ Milestone ☒ Method of Accomplishment

AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION)
PBA 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1.

DESCRIPTION OF CHANGE:

Survey Precision
The horizontal coordinates of all sampling locations and the corners of MI sample areas presented in the site specific appendices will be marked in the field utilizing a GPS unit within 1 m (3 ft). Elevations of these locations will not be recorded.

For the installation of any future monitoring wells, the location and elevation will be surveyed to an accuracy of 0.06 m (0.2 ft).

JUSTIFICATION:

This change would be to clarify the intention of using a GPS unit to stake locations for the identified MI sampling areas.
A higher resolution survey of monitoring wells (if installed) would be used as presented in the approved PBA 08 RI SAP.

IMPACT OF NOT IMPLEMENTING REQUEST:

As presented, the level of accuracy for obtaining MI sample area corners could only be met utilizing a licensed surveyor. This change clarifies that a GPS unit would be acceptable to mark sample locations. Well installations would be surveyed by a licensed surveyor.

PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST:

SAIC Field Manager and SAIC Field Teams.

COST ESTIMATE ($) 0 ESTIMATOR SIGNATURE No cost impact to USACE
PHONE NA DATE NA

PREVIOUS FCR AFFECTED ☐ YES ☒ NO; IF YES, FCR NO. ___

USACE COTR Mark W. Miller DATE: 2/24/10

OHIO EPA PROJECT MANAGER DATE: 2/25/10

SAIC H&S MANGER SIGNATURE NA DATE: 02/22/2010

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APPENDIX C

Data Quality Control Summary Report

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TABLE OF CONTENTS

LIST OF TABLES

ATTACHMENT

ACRONYMS AND ABBREVIATIONS

ADR	Automated Data Review
AOC	Area of Concern
CAS	Chemical Abstract Service
DoD	United States Department of Defense
DQA	Data Quality Assessment
DQO	Data Quality Objective
ELAP	Environmental Laboratory Accreditation Program
FWCUG	Facility-Wide Cleanup Goal
FWQAPP	Facility-wide Quality Assurance Project Plan
LCS	Laboratory Control Sample
MDL	Method Detection Limit
MPR	Monthly Progress Report
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Ohio EPA	Ohio Environmental Protection Agency
PBA08	Performance-Based Acquisition 2008
PBA08 SAP	Performance-Based Acquisition 2008 Supplemental Sampling and Analysis Plan Addendum No. 1
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
REIMS	RVAAP Environmental Information Management System
RI	Remedial Investigation
RPD	Relative Percent Difference
RVAAP	Ravenna Army Ammunition Plant
SAIC	Science Applications International Corporation
SDG	Sample Delivery Group
SVOC	Semi-volatile Organic Compound
TAL	Target Analyte List
TestAmerica	TestAmerica Laboratories, Inc.
TOC	Total Organic Carbon
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

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C.0 PROJECT QUALITY ASSURANCE SUMMARY

C.1 PURPOSE OF THIS REPORT

Environmental data must always be interpreted relative to its known limitations and its intended use. As can be expected in environmental media, there are areas and data points where the user needs to be cautioned relative to the quality of the project information presented. The data verification process and this data quality assessment (DQA) are performed to provide current and future data users assistance in the interpretation of these data.

The purpose of this DQA report is to describe

1. The quality control (QC) procedures followed to ensure data generated by Science Applications International Corporation (SAIC) during the remedial investigations (RIs) at the Ravenna Army Ammunition Plant (RVAAP) meet project requirements;

2. The quality of the data collected; and

3. The problems encountered during the course of the study and their solutions.

A separate Chemical Quality Assessment Report may be completed by the United States Army Corps of Engineers (USACE) quality assurance (QA) representative and would cover data generated from QA split samples remanded to their custody.

This report provides an assessment of the analytical information gathered during the implementation of the RI at Anchor Test Area at RVAAP. It documents the quality of the data utilized for the RI report and assesses if QA/QC objectives were met. Evaluation of field and laboratory QC measures will constitute the majority of this assessment; however, references also will be directed toward those QA procedures that establish data credibility. The primary intent of this assessment is to illustrate that, except as noted, data generated for this investigation can withstand scientific scrutiny; are appropriate for their intended purpose; are technically defensible; and are of known and acceptable sensitivity, precision, and accuracy.

Multiple activities were performed to achieve the desired data quality for this project. As discussed in the RI report, decisions were made during the initial scoping of the RI to define the quality and quantity of data required. Data quality objectives (DQOs) were established to guide the implementation of the field sampling and laboratory analysis [refer to the *Performance Based Acquisition 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No.1* (USACE 2009), herein referred to as the PBA08 SAP]. A QA program was established to standardize procedures and to document activities [refer to the *Facility-wide Quality Assurance Project Plan for Environmental Investigations* (USACE 2001), herein referred to as the FWQAPP, and Part II of the PBA08 SAP]. This program provided a means to detect and correct any deficiencies in the process.

Upon receipt by the project team, data were subjected to verification and validation review by an automated data review (ADR) process to identify and qualify problems related to the analysis. These review steps contributed to this final DQA where data used in the investigation are identified as having met the criteria and are being utilized appropriately.

C.2 QUALITY ASSURANCE PROGRAM

The FWQAPP and Part II of the PBA08 SAP were developed to guide the RI for Anchor Test Area. The purposes of these documents were to enumerate the quantity and type of samples to be taken to inspect the area of concern (AOC) and to define the quantity and type of QA/QC samples to be used to evaluate the quality of the data obtained. The FWQAPP established requirements for both field and laboratory QC procedures. In general, field QC duplicates and QA split samples were required for each environmental sample matrix collected in the area being investigated; volatile organic compound (VOC) trip blanks were to accompany each cooler containing water samples for VOC determinations; and analytical laboratory QC duplicates, matrix spikes (MSs), laboratory control samples (LCSs), and method blanks were required for each preparation batch of 20 samples or less for each matrix and analyte.

A primary goal of the RVAAP QA program was to ensure that the quality of results for all environmental measurements was appropriate for their intended use. To this end, the FWQAPP and standardized field procedures were compiled to guide the investigation. Through the process of readiness review, training, equipment calibration, QC implementation, and detailed documentation, the project has successfully accomplished the goals set for the QA program.

C.2.1 Monthly Progress Reports

Monthly Progress Reports (MPRs) were completed by the SAIC Project Manager for the duration of the project. The MPRs contained the following information: work completed, problems encountered, corrective actions/solutions, summary of findings, and upcoming work. These reports were issued to the USACE, Louisville District Project Manager by e-mail with copies forwarded to the Ohio Environmental Protection Agency (Ohio EPA). Access to these reports can be obtained through the USACE, Louisville District Project Manager.

C.2.2 Daily Activity Logs

The Field Team Leader completed Daily Activity Logs. These include information such as, but not limited to, on-site sub-tier contractors, equipment on-site, work performed summaries, QC activities, health and safety activities, problems encountered, and corrective actions.

C.2.3 Laboratory "Definitive" Level Data Reporting

The Quality Assurance Project Plan (QAPP) for this project identified requirements for laboratory data reporting and identified TestAmerica Laboratories, Inc. (TestAmerica) of North Canton, Ohio (a

subcontractor to White Water Associates Inc., Amasa, Michigan), as the laboratory for the project. During project execution, the TestAmerica facility in North Canton, Ohio, performed all of the analyses, except explosives and propellants, which were performed at the TestAmerica facility in West Sacramento, California. Collected QA split samples were analyzed by USACE's contracted QA Laboratory, RTI Laboratories, Inc., of Livonia, Michigan. TestAmerica and RTI Laboratories, Inc. are accredited by the United States Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP). All analytical procedures were completed in accordance with applicable professional standards; United States Environmental Protection Agency (USEPA) requirements; government regulations and guidelines; the DoD Quality Systems Manual (QSM), Version 3; USACE, Louisville District analytical QA guidelines; and specific project goals and requirements. USEPA "definitive" data have been reported, including the following basic information:

- Laboratory case narratives;
- Sample results (soil/sediment reported per dry weight);
- Laboratory method blank results;
- LCS results;
- Laboratory sample MS recoveries;
- Laboratory duplicate results;
- Surrogate recoveries [VOCs, semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), and explosives];
- Initial and continuing calibrations;
- Sample preparation dates; and
- Sample analysis dates.

This information from the laboratory, along with field information, provides the basis for subsequent data evaluation relative to sensitivity, precision, accuracy, representativeness, and completeness. These are presented in Section C.4.

C.3 DATA VERIFICATION

The objective when evaluating the project data quality is to determine its usability. The evaluation is based on the interpretation of laboratory QC measures, field QC measures, and the project DQOs.

This project implemented ADR software to facilitate laboratory data review. The ADR output was reviewed by the project-designated verification staff.

C.3.1 Field Data Verification

Field-generated documents such as sampling logs, boring logs, daily health and safety summaries, daily safety inspections, equipment calibration and maintenance logs, and sample management logs were peer-reviewed on-site.

C.3.2 Laboratory Data Verification

Analytical data generated for this project have been subjected to a process of automated data verification and review. The following describes this systematic process and the evaluation activities performed. Several criteria have been established against which the data were compared and from which a judgment was rendered regarding the acceptance and qualification of the data. Because it is beyond the scope of this report to cite those criteria, the reader is directed to the following documents for specific detail:

- PBA08 SAP.
- DoD – *Quality Systems Manual for Environmental Laboratories*, Version 3, January, 2006.
- USACE, Louisville District, *Louisville DoD Quality Systems Manual Supplement*, Version 1, March, 2007.
- USEPA – *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, EPA-540/R-99/008, October, 1999.
- USEPA – *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540/R-94/013, February, 1994.
- SAIC Technical Support Contractor QA Technical Procedure (TP-DM-300-7), *Data Verification and Validation*.

Upon receipt of field and analytical data, verification staff performed a systematic examination of the reports, including ADR software, to ensure the content, presentation, and administrative validity of 100% of the data. Discrepancies identified during this process were recorded and documented utilizing the ADR. Any discrepancies were resolved prior to database flag entry. As part of data verification, standardized laboratory electronic data deliverables were subjected to review. This technical evaluation ensured that all contract-specified requirements had been met, and that electronic information conformed to reported hardcopy data. Outlier reports from the ADR software review are included as Attachment 1 to this appendix. QA Program Nonconformance Report and Corrective Action systems were implemented as required.

During the verification phase of the review and evaluation process, data were subjected to a systematic technical review by examining all field and analytical QC results and laboratory documentation following USEPA functional guidelines, DoD QSM criteria, and SAIC internal procedures for laboratory data review. These data review guidelines define the technical review criteria, methods for evaluating the criteria, and actions to be taken resulting from the review of these criteria. The primary objectives of this phase were to assess and summarize the quality and reliability of the data for the intended use and to document factors that may affect the usability of the data. This process did not include in-depth review of raw data instrument out-put or re-calculation of results from the primary instrument out-put. This data verification and analytical review process included, but was not necessarily limited to, the following parameters:

- Data completeness;
- Analytical holding times and sample preservation;
- Calibration (initial and continuing);
- Method blanks;
- Sample results verification;
- Surrogate recovery;
- LCS analysis;
- Internal standard performance;
- MS recovery;
- Duplicate analysis comparison;
- Reported detection limits;
- Compound, element, and isotope quantification;
- Reported detection levels;
- Method reporting levels; and
- Secondary dilutions.

As an end result of this phase of the review, the data were qualified based on the technical assessment of the verification criteria. Qualifiers were applied by the ADR to each field and analytical result to indicate the usability of the data for its intended purpose.

C.3.3 Definitions of Data Qualifiers (Flags)

During the data verification process, all laboratory data were assigned appropriate data qualification flags and reason codes. Qualification flags are defined as follows:

"U" Indicates the analyte was analyzed for, but not detected above, the level of the associated value.

"J" Indicates the analyte was positively identified; however, the associated numerical value is an approximate concentration of the analyte in the sample.

"UJ" Indicates the analyte was analyzed for, but not detected above, the associated value; however, the reported value is an estimate and demonstrates a decreased knowledge of its accuracy or precision.

"R" Indicates the analyte value reported is unusable. The integrity of the analyte's identification, accuracy, precision, or sensitivity has raised significant questions as to the reality of the information presented.

C.3.4 Data Acceptability

A total of 21 environmental soil and 3 field duplicate QC samples were collected with approximately 1,350 discrete analyses (i.e., analytes) being obtained, reviewed, and integrated into the assessment (these totals do not include field measurements and field descriptions). Under the direction of the PBA08 SAP and the USACE, Louisville District, the project successfully collected RI samples and produced acceptable results for 100% of the sample analyses performed.

Table C-1 presents a summary of all targeted field QC and QA split samples collected during the investigation. Cross references for duplicate and QA split sample pair numbers are presented on Table C-2 along with the requested parameters for each sample. Table C-3 provides a summary of qualified analyses grouped by media and analyte category, and Table C-4 shows the individual results qualified during review. The majority of estimated values were based on values observed between the laboratory method detection limits (MDLs) and the project reporting levels (values determined in this region have an inherently higher variability and need to be considered estimated at best), MS recoveries, surrogate recoveries, and continuing calibrations.

Two equipment rinsates and one deionized source water blank were collected for the entire field cycle. The potable water source was previously tested for use by Ohio EPA and USACE. Approval documentation is referenced under the Performance-Based Acquisition 2008 (PBA08) Sharon Conglomerate Well Installation task. The project goal for blanks is to achieve concentrations less than the reporting levels. Table C-5 summarizes analytes that were detected in these blanks. The potable water blank (SCFqc-001-0001) showed detected concentrations for 12 metals and 8 miscellaneous general chemistry analytes. Of these, barium, calcium, iron, magnesium, manganese, nickel, potassium, sodium, and the general chemistry analytes exceeded their reporting limits. As noted, the results have been previously reviewed and accepted by Ohio EPA and USACE.

Toluene was the only analyte detected in the PBA08 field blank (PBA08-QC-6000-FB) and it was well below the laboratory reporting limit. The PBA08 RI equipment rinsate blanks (PBA08-QC-6001-ER and PBA08-QC-6002-ER) showed detections for a total of eight metals, five SVOCs, and three VOCs. Of the metals, only manganese and nickel in one rinsate and zinc in both rinsates exceeded the reporting limit, but all except nickel were below 2 x the reporting limit. Only one VOC and one SVOC were detected slightly above the reporting limit. These analytes (acetone and bis[2-ethylhexyl]phthalate) are common laboratory contaminants. In general, the field blank and rinsate blank results indicate that the equipment decontamination procedure was effective and the potential for sample contamination due to ambient field conditions is very low.

Table C-1. Number of Samples Taken at Anchor Test Area

Media	Environmental Samples	Field Duplicates	USACE Split Samples	Trip Blanks	Equipment Rinse Blanks[a]	Source Water Blanks[b]
Soil	21	3	3	0	2	2

[a]Equipment rinse blanks were collected at a frequency of two per field cycle for the entire Performance Based Acquisition 2008 (PBA08) Remedial Investigation (RI) for the 17 areas of concern (AOCs) as presented in Section 4.6 of the PBA08 Sampling and Analysis Plan (PBA08 SAP).
[b]Source water blanks for deionized and potable water used during equipment decontamination were evaluated for the entire PBA08 RI for the 17 AOCs as presented in Section 4.6 of the PBA08 SAP.
USACE = United States Army Corps of Engineers

Table C-2. Identification of Regular and QC Samples Taken at Anchor Test Area

Sample ID	Laboratory SDG	Field Duplicates	USACE Split Samples	Metals	Explosives	SVOCs	Propellants[a]	VOCs	Pesticides	PCBs	Hexavalent Chromium	Total Chromium
Soil												
ATASB-006-5127-SO	A0B250463	ATASB-006-6080-FD	ATASB-006-6082-QA	X	X							
ATASB-006-5128-SO	A0B250463	NS	NS	X	X							
ATASB-006-5129-SO	A0B250453, A0B250493	NS	NS	X	X							
ATASB-006-5130-SO	A0C050520	NS	NS	X	X							
ATASB-008-5133-SO	A0B250463	NS	NS	X	X	X	X	X	X	X		
ATASB-008-5134-SO	A0B250463	NS	NS	X	X	X	X	X	X	X		
ATASB-008-5135-SO	A0B250453, A0B250493	NS	NS	X	X	X	X	X	X	X		
ATASB-009-5137-SO	A0B250463	NS	NS	X	X							
ATASB-009-5138-SO	A0B250463	NS	NS	X	X							
ATASB-009-5139-SO	A0B250453, A0B250493	ATASB-009-6081-FD	ATASB-009-6083-QA	X	X							
ATASB-010-5141-SO	A0B250463	NS	NS	X	X							
ATASB-010-5142-SO	A0B250463	NS	NS	X	X							
ATASB-010-5143-SO	A0B250453, A0B250493	NS	NS	X	X							
ATASB-011-5145-SO	A0B250463	NS	NS	X	X							
ATASB-011-5146-SO	A0B250463	NS	NS	X	X							
ATASB-011-5147-SO	A0B250453, A0B250493	NS	NS	X	X							
ATASS-012-5033-SO	A0B180429	NS	NS								X	X
ATASS-013-5034-SO	A0B180429	NS	NS								X	X

Table C-2. Identification of Regular and QC Samples Taken at Anchor Test Area (continued)

Sample ID	Laboratory SDG	Field Duplicates	USACE Split Samples	Metals	Explosives	SVOCs	Propellants	VOCs	Pesticides	PCBs	Hexavalent Chromium	Total Chromium
ATASS-014-5035-SO	A0B180429	NS	NS								X	X
ATASS-015M-5036-SO	A0B180429	NS	NS	X	X	X	X	X	X	X		
ATASS-016M-5037-SO	A0B180429	ATASS-016M-6047-FD	ATASS-016M-6046-QA	X	X							

[a]Propellants include Nitrocellulose and Nitroguanidine
NS = Not Sampled
PCB = Polychlorinated Biphenyl
QC = Quality Control
SDG = Sample Delivery Group
SVOC = Semi-volatile Organic Compound
USACE = United States Army Corps of Engineers
VOC = Volatile Organic Compound

Table C-3. Summary of Qualified Results for Samples from Anchor Test Area

Analysis Group	Validation Qualifier[a]	Validation Reason Code[b]	Number Qualified	Total Number of Analyses	Percent Qualified
Soil					
All Analyses	J		135	1,349	10
	UJ		16	1,349	1.2
	None		1,198	1,349	89
Metals	J	CCV-J, ProJudge-J	3	486	0.62
	J	LCS-J, RepLimit-J	1	486	0.21
	J	MS-J	2	486	0.41
	J	MS-J, RepLimit-J	13	486	2.7
	J	ProJudge-J	8	486	1.6
	J	RepLimit-J	98	486	20
	UJ	RepLimit-J, CalBlk-U	5	486	1
	None	None	356	486	73
Hexavalent Chromium	None	None	3	3	100
Explosives	J	RepLimit-J	1	336	0.3
	UJ	MS-UJ	1	336	0.3
	None	None	334	336	99
Propellants	J	RepLimit-J	1	8	13
	UJ	MB-U, RepLimit-J	1	8	13
	None	None	6	8	75
SVOCs	J	RepLimit-J	4	264	1.5
	UJ	MB-U, RepLimit-J	2	264	0.76
	None	None	258	264	98
Pesticides	UJ	CCV-UJ	2	84	2.4
	None	None	82	84	98
PCBs	None	None	28	28	100
VOCs	J	RepLimit-J	4	140	2.9
	UJ	CCV-UJ	4	140	2.9
	UJ	MB-U, RepLimit-J	1	140	0.71
	None	None	131	140	94

[a]Validation Qualifiers: J = Estimated, U = Not detected, and UJ = Not detected and reporting limit estimated
[b]Validation Reason Codes: CalBlk = Calibration Blank, CCV = Continuing Calibration Verification, LCS = Laboratory Control Sample, MB = Method Blank, MS = Matrix Spike, ProJudge = Professional Judgment, and RptLimit = Reporting Limit
PCB = Polychlorinated Biphenyl
SVOC = Semi-volatile Organic Compound
VOC = Volatile Organic Compound

Table C-4. Detailed Listing of Qualified Results for Samples from Anchor Test Area

Chemical	Laboratory SDG	Sample ID	Results	Reporting Limit	Laboratory Qualifier[a]	Validation Qualifier[b]	Validation Code[c]
Soil							
Metals (mg/kg)							
Aluminum	A0B250463	ATASB-006-5127-SO	2,490	112	B	J	ProJudge-J
Aluminum	A0B250463	ATASB-006-5128-SO	2,100	106	B	J	ProJudge-J
Aluminum	A0B250463	ATASB-006-6080-FD	2,400	111	B	J	ProJudge-J
Aluminum	A0B250463	ATASB-008-5133-SO	2,680	113	B	J	ProJudge-J
Aluminum	A0B250463	ATASB-008-5134-SO	2,370	105	B	J	ProJudge-J
Aluminum	A0B250463	ATASB-009-5137-SO	16,400	127	B	J	ProJudge-J
Aluminum	A0B250463	ATASB-009-5138-SO	14,900	121	B	J	ProJudge-J
Aluminum	A0B250463	ATASB-009-6081-FD	4,370	115	B	J	ProJudge-J
Aluminum	A0B250463	ATASB-010-5142-SO	12,600	119	B	J	CCV-J, ProJudge-J
Aluminum	A0B250463	ATASB-011-5145-SO	13,100	141	B	J	CCV-J, ProJudge-J
Aluminum	A0B250463	ATASB-011-5146-SO	15,800	128	B	J	CCV-J, ProJudge-J
Antimony	A0B250463	ATASB-006-5127-SO	0.12	0.56	J	J	MS-J, RepLimit-J
Antimony	A0B250463	ATASB-006-5128-SO	0.085	0.53	J	J	MS-J, RepLimit-J
Antimony	A0B250453	ATASB-006-5129-SO	0.072	0.53	J	J	RepLimit-J
Antimony	A0C050520	ATASB-006-5130-SO	0.089	0.63	J	J	MS-J, RepLimit-J
Antimony	A0B250463	ATASB-006-6080-FD	0.10	0.55	J	J	MS-J, RepLimit-J
Antimony	A0B250463	ATASB-008-5133-SO	0.10	0.56	J	J	MS-J, RepLimit-J
Antimony	A0B250463	ATASB-008-5134-SO	0.11	0.53	J	J	MS-J, RepLimit-J
Antimony	A0B250453	ATASB-008-5135-SO	0.067	0.53	J	J	RepLimit-J
Antimony	A0B250463	ATASB-009-5137-SO	0.11	0.64	J	J	MS-J ,RepLimit-J
Antimony	A0B250463	ATASB-009-5138-SO	0.084	0.61	J	J	MS-J, RepLimit-J
Antimony	A0B250453	ATASB-009-5139-SO	0.071	0.55	J	J	RepLimit-J
Antimony	A0B250463	ATASB-009-6081-FD	0.076	0.58	J	J	MS-J, RepLimit-J
Antimony	A0B250463	ATASB-010-5141-SO	0.15	0.66	J	J	MS-J, RepLimit-J
Antimony	A0B250463	ATASB-010-5142-SO	0.10	0.60	J	J	MS-J, RepLimit-J
Antimony	A0B250453	ATASB-010-5143-SO	0.078	0.59	J	J	RepLimit-J

Table C-4. Detailed Listing of Qualified Results for Samples from Anchor Test Area (continued)

Chemical	Laboratory SDG	Sample ID	Results	Reporting Limit	Laboratory Qualifier[a]	Validation Qualifier[b]	Validation Code[c]
Antimony	A0B250463	ATASB-011-5145-SO	0.13	0.71	J	J	MS-J, RepLimit-J
Antimony	A0B250463	ATASB-011-5146-SO	0.090	0.64	J	J	MS-J, RepLimit-J
Antimony	A0B250453	ATASB-011-5147-SO	0.074	0.58	J	J	RepLimit-J
Antimony	A0B180429	ATASS-015M-5036-SO	0.14	0.51	J	J	RepLimit-J
Antimony	A0B180429	ATASS-016M-5037-SO	0.11	0.51	J	J	RepLimit-J
Antimony	A0B180429	ATASS-016M-6047-FD	0.11	0.51	J	J	RepLimit-J
Barium	A0B250463	ATASB-010-5141-SO	47.9	1.3	--	J	MS-J
Cadmium	A0B250463	ATASB-006-5127-SO	0.095	0.22	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-006-5128-SO	0.063	0.21	J	J	RepLimit-J
Cadmium	A0B250453	ATASB-006-5129-SO	0.059	0.21	J	J	RepLimit-J
Cadmium	A0C050520	ATASB-006-5130-SO	0.086	0.25	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-006-6080-FD	0.19	0.22	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-008-5133-SO	0.069	0.23	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-008-5134-SO	0.063	0.21	J	J	RepLimit-J
Cadmium	A0B250453	ATASB-008-5135-SO	0.062	0.21	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-009-5137-SO	0.042	0.25	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-009-5138-SO	0.082	0.24	J	J	RepLimit-J
Cadmium	A0B250453	ATASB-009-5139-SO	0.062	0.22	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-009-6081-FD	0.080	0.23	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-010-5141-SO	0.028	0.26	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-010-5142-SO	0.085	0.24	J	J	RepLimit-J
Cadmium	A0B250453	ATASB-010-5143-SO	0.082	0.23	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-011-5145-SO	0.12	0.28	J	J	RepLimit-J
Cadmium	A0B250463	ATASB-011-5146-SO	0.042	0.26	J	J	RepLimit-J
Cadmium	A0B250453	ATASB-011-5147-SO	0.080	0.23	J	J	RepLimit-J
Cadmium	A0B180429	ATASS-015M-5036-SO	0.10	0.20	J	J	RepLimit-J
Cadmium	A0B180429	ATASS-016M-5037-SO	0.16	0.20	J	J	RepLimit-J
Cadmium	A0B180429	ATASS-016M-6047-FD	0.16	0.20	J	J	RepLimit-J
Mercury	A0B250463	ATASB-006-5127-SO	0.061	0.11	J	J	RepLimit-J
Mercury	A0B250463	ATASB-006-6080-FD	0.017	0.11	J	J	RepLimit-J
Mercury	A0B250463	ATASB-009-5137-SO	0.049	0.13	J	J	RepLimit-J
Mercury	A0B250463	ATASB-009-5138-SO	0.033	0.12	J	J	RepLimit-J

Table C-4. Detailed Listing of Qualified Results for Samples from Anchor Test Area (continued)

Chemical	Laboratory SDG	Sample ID	Results	Reporting Limit	Laboratory Qualifier[a]	Validation Qualifier[b]	Validation Code[c]
Mercury	A0B250463	ATASB-010-5141-SO	0.048	0.13	J	J	RepLimit-J
Mercury	A0B250463	ATASB-011-5145-SO	0.077	0.14	J	J	RepLimit-J
Mercury	A0B250463	ATASB-011-5146-SO	0.040	0.13	J	J	RepLimit-J
Mercury	A0B180429	ATASS-015M-5036-SO	0.038	0.10	J	J	RepLimit-J
Mercury	A0B180429	ATASS-016M-5037-SO	0.062	0.10	J	J	RepLimit-J
Mercury	A0B180429	ATASS-016M-6047-FD	0.049	0.10	J	J	RepLimit-J
Selenium	A0B250463	ATASB-006-5127-SO	0.51	0.56	J	J	RepLimit-J
Selenium	A0B250453	ATASB-006-5129-SO	0.46	0.53	J	J	RepLimit-J
Selenium	A0C050520	ATASB-006-5130-SO	0.58	0.63	J	J	LCS-J, RepLimit-J
Selenium	A0B250463	ATASB-006-6080-FD	0.48	0.55	J	J	RepLimit-J
Selenium	A0B250453	ATASB-008-5135-SO	0.39	0.53	J	J	RepLimit-J
Selenium	A0B250453	ATASB-009-5139-SO	0.48	0.55	J	J	RepLimit-J
Silver	A0B250463	ATASB-006-5127-SO	0.021	0.56	J	UJ	RepLimit-J, CalBlk-U
Silver	A0B250463	ATASB-006-5128-SO	0.017	0.53	J	J	RepLimit-J
Silver	A0B250453	ATASB-006-5129-SO	0.014	0.53	J	J	RepLimit-J
Silver	A0C050520	ATASB-006-5130-SO	0.018	0.63	J	UJ	RepLimit-J, CalBlk-U
Silver	A0B250463	ATASB-006-6080-FD	0.028	0.55	J	J	RepLimit-J
Silver	A0B250463	ATASB-008-5133-SO	0.014	0.56	J	J	RepLimit-J
Silver	A0B250463	ATASB-008-5134-SO	0.017	0.53	J	J	RepLimit-J
Silver	A0B250453	ATASB-008-5135-SO	0.011	0.53	J	J	RepLimit-J
Silver	A0B250463	ATASB-009-5137-SO	0.021	0.64	J	J	RepLimit-J
Silver	A0B250463	ATASB-009-5138-SO	0.020	0.61	J	J	RepLimit-J
Silver	A0B250453	ATASB-009-5139-SO	0.020	0.55	J	J	RepLimit-J
Silver	A0B250463	ATASB-009-6081-FD	0.019	0.58	J	J	RepLimit-J
Silver	A0B250463	ATASB-010-5141-SO	0.024	0.66	J	J	RepLimit-J
Silver	A0B250463	ATASB-010-5142-SO	0.013	0.60	J	J	RepLimit-J
Silver	A0B250453	ATASB-010-5143-SO	0.023	0.59	J	J	RepLimit-J
Silver	A0B250463	ATASB-011-5145-SO	0.040	0.71	J	J	RepLimit-J
Silver	A0B250463	ATASB-011-5146-SO	0.021	0.64	J	J	RepLimit-J
Silver	A0B250453	ATASB-011-5147-SO	0.019	0.58	J	J	RepLimit-J
Silver	A0B180429	ATASS-015M-5036-SO	0.026	0.51	J	UJ	RepLimit-J, CalBlk-U
Silver	A0B180429	ATASS-016M-5037-SO	0.043	0.51	J	UJ	RepLimit-J, CalBlk-U

Table C-4. Detailed Listing of Qualified Results for Samples from Anchor Test Area (continued)

Chemical	Laboratory SDG	Sample ID	Results	Reporting Limit	Laboratory Qualifier[a]	Validation Qualifier[b]	Validation Code[c]
Silver	A0B180429	ATASS-016M-6047-FD	0.041	0.51	J	UJ	RepLimit-J, CalBlk-U
Sodium	A0B250463	ATASB-006-5127-SO	35.2	112	J	J	RepLimit-J
Sodium	A0B250463	ATASB-006-5128-SO	48.9	106	J	J	RepLimit-J
Sodium	A0B250453	ATASB-006-5129-SO	43.6	106	J	J	RepLimit-J
Sodium	A0C050520	ATASB-006-5130-SO	42.7	126	J	J	RepLimit-J
Sodium	A0B250463	ATASB-006-6080-FD	37.7	111	J	J	RepLimit-J
Sodium	A0B250463	ATASB-008-5133-SO	31.7	113	J	J	RepLimit-J
Sodium	A0B250463	ATASB-008-5134-SO	40.0	105	J	J	RepLimit-J
Sodium	A0B250453	ATASB-008-5135-SO	62.6	106	J	J	RepLimit-J
Sodium	A0B250463	ATASB-009-5137-SO	43.8	127	J	J	RepLimit-J
Sodium	A0B250463	ATASB-009-5138-SO	96.4	121	J	J	RepLimit-J
Sodium	A0B250453	ATASB-009-5139-SO	59.2	111	J	J	RepLimit-J
Sodium	A0B250463	ATASB-009-6081-FD	61.3	115	J	J	RepLimit-J
Sodium	A0B250463	ATASB-010-5141-SO	103	132	J	J	RepLimit-J
Sodium	A0B250463	ATASB-010-5142-SO	66.3	119	J	J	RepLimit-J
Sodium	A0B250453	ATASB-010-5143-SO	70.3	117	J	J	RepLimit-J
Sodium	A0B250463	ATASB-011-5145-SO	36.9	141	J	J	RepLimit-J
Sodium	A0B250463	ATASB-011-5146-SO	45.5	128	J	J	RepLimit-J
Sodium	A0B250453	ATASB-011-5147-SO	91.5	117	J	J	RepLimit-J
Sodium	A0B180429	ATASS-015M-5036-SO	49.8	102	J	J	RepLimit-J
Sodium	A0B180429	ATASS-016M-5037-SO	31.4	102	J	J	RepLimit-J
Sodium	A0B180429	ATASS-016M-6047-FD	32.5	102	J	J	RepLimit-J
Thallium	A0B250463	ATASB-006-5127-SO	0.068	0.22	J	J	RepLimit-J
Thallium	A0B250453	ATASB-006-5129-SO	0.084	0.21	J	J	RepLimit-J
Thallium	A0C050520	ATASB-006-5130-SO	0.13	0.25	J	J	RepLimit-J
Thallium	A0B250463	ATASB-006-6080-FD	0.075	0.22	J	J	RepLimit-J
Thallium	A0B250463	ATASB-009-5137-SO	0.17	0.25	J	J	RepLimit-J
Thallium	A0B250463	ATASB-009-5138-SO	0.20	0.24	J	J	RepLimit-J
Thallium	A0B250453	ATASB-009-5139-SO	0.12	0.22	J	J	RepLimit-J
Thallium	A0B250463	ATASB-009-6081-FD	0.089	0.23	J	J	RepLimit-J
Thallium	A0B250463	ATASB-010-5141-SO	0.20	0.26	J	J	RepLimit-J
Thallium	A0B250463	ATASB-010-5142-SO	0.18	0.24	J	J	RepLimit-J

Table C-4. Detailed Listing of Qualified Results for Samples from Anchor Test Area (continued)

Chemical	Laboratory SDG	Sample ID	Results	Reporting Limit	Laboratory Qualifier[a]	Validation Qualifier[b]	Validation Code[c]
Thallium	A0B250453	ATASB-010-5143-SO	0.16	0.23	J	J	RepLimit-J
Thallium	A0B250463	ATASB-011-5145-SO	0.17	0.28	J	J	RepLimit-J
Thallium	A0B250463	ATASB-011-5146-SO	0.18	0.26	J	J	RepLimit-J
Thallium	A0B250453	ATASB-011-5147-SO	0.18	0.23	J	J	RepLimit-J
Thallium	A0B180429	ATASS-015M-5036-SO	0.18	0.20	J	J	RepLimit-J
Thallium	A0B180429	ATASS-016M-5037-SO	0.18	0.20	J	J	RepLimit-J
Thallium	A0B180429	ATASS-016M-6047-FD	0.17	0.20	J	J	RepLimit-J
Zinc	A0B250463	ATASB-010-5141-SO	41.9	5.3	--	J	MS-J
Explosives (mg/kg)							
4-Amino-2,6-dinitrotoluene	A0B250463	ATASB-010-5141-SO	0.25	0.25	U	UJ	MS-UJ
PETN	A0B180429	ATASS-016M-6047-FD	0.11	0.50	J	J	RepLimit-J
Propellants (mg/kg)							
Nitrocellulose	A0B250463	ATASB-008-5133-SO	0.97	5.6	B	J	RepLimit-J
Nitrocellulose	A0B180429	ATASS-015M-5036-SO	2.4	5.1	B J	UJ	MB-U, RepLimit-J
SVOCs (µg/kg)							
2-Methylnaphthalene	A0B180429	ATASS-015M-5036-SO	9.2	340	J	J	RepLimit-J
Naphthalene	A0B180429	ATASS-015M-5036-SO	12	51	J	J	RepLimit-J
Bis(2-ethylhexyl) phthalate	A0B250463	ATASB-008-5133-SO	370	370	J B	UJ	MB-U, RepLimit-J
Bis(2-ethylhexyl) phthalate	A0B250463	ATASB-008-5134-SO	350	350	J B	UJ	MB-U, RepLimit-J
Bis(2-ethylhexyl) phthalate	A0B250453	ATASB-008-5135-SO	25	350	J	J	RepLimit-J
Bis(2-ethylhexyl) phthalate	A0B180429	ATASS-015M-5036-SO	69	340	J	J	RepLimit-J
Pesticides (µg/kg)							
4,4'-DDD	A0B250463	ATASB-008-5133-SO	4.5	4.5	U	UJ	CCV-UJ
4,4'-DDD	A0B250463	ATASB-008-5134-SO	2.1	2.1	U	UJ	CCV-UJ
VOCs (µg/kg)							
Carbon Tetrachloride	A0B250463	ATASB-008-5133-SO	5.6	5.6	U	UJ	CCV-UJ
Carbon Tetrachloride	A0B250463	ATASB-008-5134-SO	5.3	5.3	U	UJ	CCV-UJ
Carbon Tetrachloride	A0B250453	ATASB-008-5135-SO	5.3	5.3	U	UJ	CCV-UJ

Table C-4. Detailed Listing of Qualified Results for Samples from Anchor Test Area (continued)

Chemical	Laboratory SDG	Sample ID	Results	Reporting Limit	Laboratory Qualifier[a]	Validation Qualifier[b]	Validation Code[c]
Carbon Tetrachloride	A0B180429	ATASS-015M-5036-SO	6.7	6.7	U	UJ	CCV-UJ
Methylene Chloride	A0B250453	ATASB-008-5135-SO	0.80	5.3	J	J	RepLimit-J
Toluene	A0B250463	ATASB-008-5133-SO	0.34	5.6	J	J	RepLimit-J
Toluene	A0B250463	ATASB-008-5134-SO	0.43	5.3	J	J	RepLimit-J
Toluene	A0B250453	ATASB-008-5135-SO	0.50	5.3	J	J	RepLimit-J
Toluene	A0B180429	ATASS-015M-5036-SO	6.7	6.7	J B	UJ	MB-U, RepLimit-J

[a]Laboratory Qualifiers: B = Analyte was detected in the associated blank as well as the sample, J = Estimated because result is between the method detection limit and the reporting limit, and U = Not detected
[b]Data Qualifiers: J = Estimated, U = Not detected, and UJ = Not detected and reporting limit estimated
[c]Validation Reason Codes: CalBlk = Calibration Blank, CCV = Continuing Calibration Verification, LCS = Laboratory Control Sample, MB = Method Blank, MS = Matrix Spike, ProJudge = Professional Judgment, and RptLimit = Reporting Limit
SDG = Sample Delivery Group
SVOC = Semi-volatile Organic Compound
VOC = Volatile Organic Compound

Table C-5. Results for Analytes Detected in Field Blanks or Equipment Rinsate Samples

Sample ID	CAS Number	Project Reporting Level	SCFqc-001-0001-FB	PBA08-QC-6000-FB	PBA08-QC-6001-ER	PBA08-QC-6002-ER
Date			02/06/09	02/18/10	02/18/10	04/01/10
Sample Type			Potable Water Blank	Deionized Water Blank	Equipment Rinse Blank	Equipment Rinse Blank
Analyte (mg/L)						
Metals						
Antimony	7440-36-0	0.005	0.00019 J	<0.005 U	<0.005 U	<0.005 U
Arsenic	7440-38-2	0.005	0.0012 J	<0.005 U	<0.005 U	<0.005 U
Barium	7440-39-3	0.01	0.0472	<0.01 U	<0.01 U	<0.01 U
Calcium	7440-70-2	0.1	65.6	<2 U	<2 U	<2 U
Chromium	7440-47-3	0.005	<0.005 U	<0.005 U	<0.005 U	0.0012 J
Cobalt	7440-48-4	0.005	<0.005 U	<0.005 U	<0.005 U	0.00006 J
Copper	7440-50-8	0.005	0.00057 J	<0.005 U	<0.005 U	<0.005 U
Iron	7439-89-6	0.1	0.78	<0.15 U	<0.15 U	0.0957 J
Magnesium	7439-95-4	0.1	28.3	<1 U	<1 U	<1 U
Manganese	7439-96-5	0.01	0.0919	<0.01 U	<0.01 U	0.0155
Nickel	7440-02-0	0.0002	0.00035 J	<0.01 U	<0.01 U	0.0012 J
Potassium	7440-09-7	0.2	2.86	<1 U	<1 U	<1 U
Sodium	7440-23-5	0.2	40.1	<1 U	<1 U	<1 U
Thallium	7440-28-0	0.002	0.00036 J	<0.002 U	<0.002 U	<0.002 U
Vanadium	7440-62-2	0.01	<0.01 U	<0.01 U	0.00053 J	<0.01 U
Zinc	7440-66-6	0.01	<0.0049 UJ	<0.04 U	0.0104 J	0.0104 J
SVOCs						
Benzenemethanol	100-51-6	0.01	<0.01 U	<0.01 U	<0.01 U	0.00078 J
Bis(2-ethylhexyl)phthalate	117-81-7	0.01	<0.01 U	<0.01 UJ	<0.01 UJ	0.014
Di-n-butyl phthalate	84-74-2	0.01	<0.01 U	<0.01 U	<0.01 U	0.00068 J

Table C-5. Results for Analytes Detected in Field Blanks or Equipment Rinsate Samples (continued)

Sample ID			SCFqc-001-0001-FB	PBA08-QC-6000-FB	PBA08-QC-6001-ER	PBA08-QC-6002-ER
Date			02/06/09	02/18/10	02/18/10	04/01/10
Sample Type	CAS Number	Project Reporting Level	Potable Water Blank	Deionized Water Blank	Equipment Rinse Blank	Equipment Rinse Blank
Analyte (mg/L)						
VOCs						
2-Butanone	78-93-3	0.01	<0.01 U	<0.01 U	0.00072 J	<0.01 U
Acetone	67-64-1	0.01	<0.01 U	<0.01 U	0.004 J	0.017
Toluene	108-88-3	0.001	<0.001 U	0.00053 J	0.00042 J	0.00034 J
Miscellaneous						
Alkalinity	NA	1.0	250 J	NA	NA	NA
Bicarbonate	71-52-3	1.0	250 J	NA	NA	NA
Bromide	24959-67-9	0.2	0.3	NA	NA	NA
Chloride	16887-00-6	0.2	85.9	NA	NA	NA
Fluoride	16984-48-8	0.1	0.1	NA	NA	NA
Orthophosphate	14265-44-2	0.1	0.2	NA	NA	NA
Phosphorous (total)	NA	0.1	0.11	NA	NA	NA
Sulfate	14808-79-8	1.0	51.6	NA	NA	NA

Explosives, propellants, pesticides, and polychlorinated biphenyls were analyzed for and not detected

Sample Type: ER = Equipment rinse blank and FB = Source water blank

Data Qualifiers: J = estimated, U = not detected, and UJ = not detected and reporting limit estimated
CAS = Chemical Abstracts Service
NA = Not Applicable
SVOC = Semi-volatile Organic Compound
VOC = Volatile Organic Compound

C.4 DATA QUALITY EVALUATION

C.4.1 Metals Analysis in Soil

Analytical holding times were met for all samples. Initial calibrations were achieved for all elements analyzed. Continuing calibrations were acceptable for most elements analyzed, except for slightly high recovery for aluminum at 110.6%, which caused three results (0.62% of metals data) for this analyte to be qualified as estimated "J." One selenium result (0.21% of metals data) was qualified as estimated "J" due to an LCS recovery outside of control limits. All other LCS recoveries were acceptable. Method blank levels did not result in any data to be qualified. However, continuing calibration blank levels did result in qualification of silver in five samples as non-detectable concentration "U" or estimated non-detectable concentration "UJ." Antimony in 13 samples, barium in 1 sample, and zinc in 1 sample (3.1% of metals data) were qualified as estimated "J" due to low MS results. Other metals exhibited acceptable recoveries and were not qualified. Reporting levels are considered to be acceptable relative to the QAPP goals. Dilutions of 1:10 were required to bring concentrations of aluminum in 12 samples and manganese in two samples to within the instrument calibration range. Serial dilution results were acceptable for most elements except for slightly high percent difference (%D) for aluminum at 10.6%, which caused positive results for aluminum to be qualified as estimated "J" in 11 associated samples (2.42% of metals data). Although some analyses were qualified as estimated, the deviations observed should not have a primary influence on the results, and the values are considered technically sound and defensible. No data were rejected. Complete data summary tables, with associated qualifiers, are provided in Appendix D of the RI report and can be found in the RVAAP Environmental Information Management System (REIMS).

C.4.2 Volatile Organic Analysis in Soil

Analytical holding times were met for all samples. Surrogate recoveries, internal standard areas/retention times, initial calibrations, and LCS recoveries were acceptable for all analytes analyzed. Continuing calibrations were acceptable for most analytes with the exception of less than negative 20% difference (%D) values for carbon tetrachloride, which caused non-detectable concentration results in four samples (2.9% of VOC data) to be qualified as estimated non-detectable concentration "UJ." Method blanks were free of contamination with the exception of low levels of acetone, 2-butanone, 2-hexanone, and toluene. One associated sample result (0.71% of VOC data) was qualified as non-detectable concentration "U" for acetone. MS/matrix spike duplicate (MSD) did not apply to this sample set. No samples required dilutions or re-analyses. Although some analyses were qualified as estimated, the deviations observed should not have a primary influence on the results, and the values are considered technically sound and defensible. No data were rejected. Complete data summary tables, with associated qualifiers, are provided in Appendix D of the RI report and can be found in REIMS.

C.4.3 Semi-volatile Organic Analysis in Soil

Analytical holding times were met for all samples. Surrogate recoveries were acceptable for these analyses. Internal standard area counts and compound retention times were acceptable throughout the data analyses. Initial and continuing calibration criteria were met for all compounds. Method blanks were free of contamination for most analytes with the exception of low level bis(2-ethylhexyl)phthalate in one blank, which caused this analyte in two associated samples (0.76% of SVOC data) to be qualified as not detected "U." All LCS recoveries were within criteria. MS/MSD did not apply to any samples in this sample set. No samples required dilutions or re-analyses. Although a few positive results were qualified as estimated because associated values were less than the reporting levels, the deviations observed should not have a primary influence on the results, and the values are considered technically sound and defensible. No data were rejected. Complete data summary tables, with associated qualifiers, are provided in Appendix D of the RI report and can be found in REIMS.

C.4.4 Pesticide Analysis in Soil

Analytical holding times were met for all samples. Surrogate recoveries were acceptable for all pesticide analyses. Initial calibration criteria were met for all compounds. Two 4,4'-DDD results (2.4% of pesticides data) were qualified as estimated due to continuing calibration %D greater than 20%. All other pesticide continuing calibration criteria were acceptable. Method blanks were free of contamination and had no impact on the sample data. All LCS recoveries were within criteria. All pesticide MS/MSD recoveries and relative percent difference (RPD) results were within control limits. Two pesticide samples required 1:2 dilutions; however, all MDLs and reporting limits were reported below the facility-wide cleanup goals (FWCUGs). Although some analyses were qualified as estimated, the deviations observed should not have a primary influence on the results, and the values are considered technically sound and defensible. No data were rejected. Complete data summary tables, with associated qualifiers, are provided in Appendix D of the RI report and can be found in REIMS.

C.4.5 Polychlorinated Biphenyl Analysis in Soil

Analytical holding times were met for all samples. Surrogate recoveries were acceptable for all PCB analyses. Initial calibration criteria were met for all compounds. All PCB continuing calibration criteria were acceptable. Method blanks were free of contamination and had no impact on the sample data. All LCS recoveries were within criteria. All PCB MS/MSD recoveries and RPD results were within control limits. No PCB samples required dilutions. Although some analyses were qualified as estimated, the deviations observed should not have a primary influence on the results, and the values are considered technically sound and defensible. No data were rejected. Complete data summary tables, with associated qualifiers, are provided in Appendix D of the RI report and can be found in REIMS.

C.4.6 Explosives and Nitroglycerin Analyses in Soil

Analytical holding times were met for all samples. Surrogate recoveries were acceptable for these analyses. Initial and continuing calibration criteria were met for all compounds. Method blanks were free of contamination and had no impact on the sample data. All LCS recoveries were within criteria. MS/MSD recoveries and RPD values were acceptable for most analytes with the exception of slightly low recoveries for 4-amino-2,6-dinitrotoluene, which caused this result in parent sample ATASB-010-5141-SO to be qualified as estimated non-detectable concentration "UJ." No explosives samples required dilutions. Although a few results were qualified as estimated because they were between the detection limit and the reporting limit, the deviations observed should not have a primary influence on the results, and the values are considered technically sound and defensible. No data were rejected. Complete data summary tables, with associated qualifiers, are provided in Appendix D of the RI report and can be found in REIMS.

C.4.7 Nitroguanidine, Nitrocellulose, and Hexavalent Chromium Analyses in Soil

Analytical holding times were met for all samples. Initial and continuing calibration criteria were met for all compounds. Method blanks for nitroguanidine and hexavalent chromium were free of contamination and had no impact on the sample data. However, one method blank contained nitrocellulose at 0.80 mg/kg, which caused this analyte in associated sample ATASS-015M-5036-SO to be qualified as estimated non-detectable concentration "UJ." All LCS recoveries were within criteria. MS/MSD recoveries and RPD values were acceptable for this data set. No dilutions or re-analyses were required. Although some analyses were qualified as estimated, the deviations observed should not have a primary influence on the results, and the values are considered technically sound and defensible. No data were rejected. Complete data summary tables, with associated qualifiers, are provided in Appendix D of the RI report and can be found in REIMS.

C.4.8 Precision

Field duplicate samples were collected to ascertain the contribution to variability (i.e., precision) due to the combination of environmental media, sampling consistency, and analytical precision. Field duplicate samples were collected from the same spatial and temporal conditions as the primary environmental sample. Soil samples were collected from the same sampling device after homogenization for all analytes except VOCs.

Field duplicate comparison information is presented in Table C-6. If a given analyte was not detected in both the regular and field duplicate sample, precision was considered acceptable and the results were not included in the table. The RPD was calculated only when both samples were >5 x the reporting level. When one or both sample values were between the reporting level and 5 x the reporting level, the absolute difference (D) was evaluated. Tables 3-1 and 3-2 of the FWQAPP set the RPD criteria at 50% for soil and sediment and at 30% for water, while the absolute difference is set at 1 x the reporting limit for all matrices. Field duplicate comparisons for Anchor Test Area are considered good, with all results below an absolute difference of 1 or an RPD of 50%, with the

exception of magnesium at 55% RPD in soil in field duplicate pair ATASB-006-5127-SO/ATASB-006-6080-FD.

Table C-6. Field Duplicate Pair Comparisons for Analytes Detected in Samples from Anchor Test Area

Sample ID	Chemical	Regular Result	Duplicate Result	RPD % or (Absolute Difference)[a]	Test[b]
Soil (mg/kg)					
Metals					
ATASB-006-5127-SO/ ATASB-006-6080-FD	Aluminum	2,490 J	2,400 J	4%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Antimony	0.12 J	0.1 J	(0.04)	D
ATASB-006-5127-SO/ ATASB-006-6080-FD	Arsenic	7.4	8	8%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Barium	16.5	15.4	7%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Beryllium	0.15	0.15	(0.00)	D
ATASB-006-5127-SO/ ATASB-006-6080-FD	Cadmium	0.095 J	0.19 J	(0.43)	D
ATASB-006-5127-SO/ ATASB-006-6080-FD	Calcium	17,600	26,400	40%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Chromium	5.1	4.9	4%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Cobalt	3.8	3.2	17%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Copper	13.3	11.3	16%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Iron	12,400	12,100	2%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Lead	7.7	7.6	1%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Magnesium	4,580	2,600	55%	RPD*
ATASB-006-5127-SO/ ATASB-006-6080-FD	Manganese	243	289	17%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Mercury	0.061 J	0.017 J	(0.40)	D
ATASB-006-5127-SO/ ATASB-006-6080-FD	Nickel	8.4	8.6	2%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Potassium	289	309	(0.18)	D
ATASB-006-5127-SO/ ATASB-006-6080-FD	Selenium	0.51 J	0.48 J	(0.05)	D
ATASB-006-5127-SO/ ATASB-006-6080-FD	Silver	0.021 UJ	0.028 J	(0.01)	D
ATASB-006-5127-SO/ ATASB-006-6080-FD	Sodium	35.2 J	37.7 J	(0.02)	D
ATASB-006-5127-SO/ ATASB-006-6080-FD	Thallium	0.068 J	0.075 J	(0.03)	D
ATASB-006-5127-SO/ ATASB-006-6080-FD	Vanadium	5.7	5.6	2%	RPD
ATASB-006-5127-SO/ ATASB-006-6080-FD	Zinc	49.3	44.1	11%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Aluminum	5,210	4,370 J	18%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Antimony	0.071 J	0.076 J	(0.01)	D
ATASB-009-5139-SO/ ATASB-009-6081-FD	Arsenic	8.7	9.8	12%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Barium	32.5	26	22%	RPD

Table C-6. Field Duplicate Pair Comparisons for Analytes Detected in Samples from Anchor Test Area (continued)

Sample ID	Chemical	Regular Result	Duplicate Result	RPD % or (Absolute Difference)[a]	Test[b]
ATASB-009-5139-SO/ ATASB-009-6081-FD	Beryllium	0.28	0.24	(0.35)	D
ATASB-009-5139-SO/ ATASB-009-6081-FD	Cadmium	0.062 J	0.08 J	(0.08)	D
ATASB-009-5139-SO/ ATASB-009-6081-FD	Calcium	15,900	12,900	21%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Chromium	8.4	7.2	15%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Cobalt	5.5	4.9	12%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Copper	15.6	16.1	3%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Iron	15,700	14,400	9%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Lead	8.1	8.6	6%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Magnesium	4,140	3,660	12%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Manganese	243	246	1%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Nickel	13.9	12.1	14%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Potassium	1,050	827	24%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Selenium	0.48 J	0.67	(0.34)	D
ATASB-009-5139-SO/ ATASB-009-6081-FD	Silver	0.02 J	0.019 J	(0.00)	D
ATASB-009-5139-SO/ ATASB-009-6081-FD	Sodium	59.2 J	61.3 J	(0.02)	D
ATASB-009-5139-SO/ ATASB-009-6081-FD	Thallium	0.12 J	0.089 J	(0.14)	D
ATASB-009-5139-SO/ ATASB-009-6081-FD	Vanadium	10.3	9.5	8%	RPD
ATASB-009-5139-SO/ ATASB-009-6081-FD	Zinc	47.9	52	8%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Aluminum	11,400	12,200	7%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Antimony	0.11 J	0.11 J	(0.00)	D
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Arsenic	10	10.8	8%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Barium	70.8	70.4	1%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Beryllium	0.54	0.55	2%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Cadmium	0.16 J	0.16 J	(0.00)	D
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Calcium	1,100	1,150	4%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Chromium	25.2	28	11%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Cobalt	10.6	10	6%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Copper	10.1	10.9	8%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Iron	22,300	24,200	8%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Lead	18.9	18.1	4%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Magnesium	2,230	2,350	5%	RPD

Table C-6. Field Duplicate Pair Comparisons for Analytes Detected in Samples from Anchor Test Area (continued)

Sample ID	Chemical	Regular Result	Duplicate Result	RPD % or (Absolute Difference)[a]	Test[b]
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Manganese	1,260	1,170	7%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Mercury	0.062 J	0.049 J	(0.13)	D
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Nickel	18.1	20	10%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Potassium	661	753	13%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Selenium	0.9	0.85	(0.10)	D
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Sodium	31.4 J	32.5 J	(0.01)	D
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Thallium	0.18 J	0.17 J	(0.05)	D
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Vanadium	22.1	24	8%	RPD
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	Zinc	49.6	56.6	13%	RPD
Explosives					
ATASS-016M-5037-SO/ ATASS-016M-6047-FD	PETN	0.5 U	0.11 J	(0.78)	D

[a]RPD is calculated as 100 x |R-D|/(R-D)/2, where R is the concentration of the regular sample and D is the concentration of the duplicate. The absolute difference is calculated as |R-D|/L, where L is the average reporting limit of the two samples. Values followed by a "%" are RPD values. Values in parentheses are absolute difference values.

[b]The test used to evaluate the duplicate comparison is the RPD if both sample results were more than 5 x the reporting limit or the absolute difference (D) if any result was less than 5 x the reporting limit

*RPD or D outside criteria

Data Qualifiers: J = Estimated, U = Not detected, and UJ = Not detected and reporting limit estimated

RPD = Relative Percent Difference

C.4.9 Sensitivity

Determination of minimum detectable values allows the investigation to assess the relative confidence that can be placed in a value relative to the magnitude or level of analyte concentration observed. The closer a measured value comes to the minimum detectable concentration, the less confidence and more variation the measurement will have. Project sensitivity goals were expressed as quantitation level goals in the QAPP. Individual analyte reporting levels can vary due to inherent moisture content variability, matrix differences, and contaminant analyte concentrations. Two manganese and 14 aluminum results were reported from 1:10 dilutions because of elevated concentrations present in the samples. All pesticide results for samples ATASS-015M-5036-SO and ATASB-008-5133-SO were reported from 1:2 dilutions. These dilutions did not cause any reporting levels for undetected concentrations to be elevated above FWCUGs. Reporting levels were elevated in soil due to dilution factors, inherent moisture content variability, and results being reported in the standard dry weight format. Reporting level variations have been considered during data interpretation and statistical applications.

Method blank determinations were performed with each analytical sample batch for each analyte under investigation. These blanks were evaluated during data review to determine their potential impact on individual data points, if any. Review action levels are set at 5 x the reporting level for all analytes, except those designated as common laboratory contaminants (methylene chloride, acetone, toluene, 2-butanone, and phthalate compounds) with action levels set at 10 x reporting levels. During data review, reported sample concentrations are assessed against method blank action levels, and the following qualifications are made when reportable quantities of analytes were observed in the associated method blank:

- When the analyte sample concentration is above 5 or 10 x the action level, the data are not qualified and it is considered a positive value.

- When inorganic analyte sample concentrations are determined to be below 5 or 10 x the action level, the data are considered impacted by the method blank and the value reported is qualified as a non-detectable concentration at the analyte value reported. These data are then qualified as "U."

- When organic analyte sample concentrations are determined to be below 5 or 10 x the action level, the data are considered impacted by the method blank and the value reported is qualified as a non-detectable concentration. If the reported value is below the reporting level, the result is qualified as a non-detectable concentration at the reporting level. If the result is above the reporting limit, it is qualified as a non-detectable concentration at the analyte value reported. These data are then qualified as "U."

No data were rejected as a result of method blank contamination; however, various analytes were qualified as non-detectable concentration "U" according to the validation in Table C-3.

C.4.10 Representativeness and Comparability

Representativeness expresses the degree to which data accurately reflect the analyte or parameter of interest for the environmental site and is the qualitative term most concerned with the proper design of the sampling program. Factors that affect the representativeness of analytical data include proper preservation, holding times, use of standard sampling and analytical methods, and determination of matrix or analyte interferences. Samples were hand-delivered to the laboratory by the TestAmerica courier and were received within temperature specifications and in good condition. A few samples were received at a temperature of 0.8°C; this did not impact the quality of the data. No holding time deviations were observed.

Comparability, like representativeness, is a qualitative term relative to an individual project data set. The RI employed appropriate sampling methodologies, site surveillance, use of standard sampling devices, uniform training, documentation of sampling, standard analytical protocols/procedures, QC checks with standard control limits, and universally accepted data reporting units to ensure comparability to other data sets. Through the proper implementation and documentation of these standard practices, the project has established the confidence that the data will be comparable to other project and programmatic information. Table C-7 presents the standardized parameter groups, sample containers, preservation techniques, and associated holding times for environmental media.

C.4.11 Completeness

Usable data are defined as those data that pass individual scrutiny during the verification and validation process and are accepted for unrestricted application to the human health risk assessment evaluation or equivalent-type applications. Estimated data have been determined to be acceptable for RVAAP project objectives.

The completeness goal for analytical data is 90%, as defined in Tables 3-1 and 3-2 of the FWQAPP. The project achieved this goal by collecting all samples presented in the PBA08 SAP and producing usable results for 100% of all samples performed.

C.5 DATA QUALITY ASSESSMENT SUMMARY

The overall quality of the Anchor Test Area RI information meets or exceeds the established project objectives. Through proper implementation of the project data verification and assessment process, project information has been determined to be acceptable for use.

Data, as presented, have been qualified as usable and estimated "J" or "UJ." Data that have been estimated provide indications of either accuracy, precision, or sensitivity being less than desired but adequate for interpretation. No data were rejected for this sample set. Qualifiers have been applied to data when necessary.

Data produced for this project demonstrate they can withstand scientific scrutiny; are appropriate for its intended purpose; are technically defensible; and are of known and acceptable sensitivity, precision, and accuracy. Data integrity has been documented through proper implementation of QA and QC measures. The environmental information presented has an established confidence that allows utilization for the project objectives and provides data for future needs.

Table C-7. Container Requirements for Soil Samples at RVAAP

Analyte Group	Container	Minimum Sample Size	Preservative	Holding Time
Volatile Organic Compounds	One 2-oz glass jar with septum cap (no headspace)	20 g	Cool, 4°C	14 days
Semi-volatile Organic Compounds	4-oz glass	30 g	Cool, 4°C	14 days (extraction) 40 days (analysis)
Pesticide Compounds	4-oz glass	30 g	Cool, 4°C	14 days (extraction) 40 days (analysis)
Polychlorinated Biphenyls	4-oz glass	30 g	Cool, 4°C	14 days (extraction) 40 days (analysis)
Polycyclic Aromatic Hydrocarbon Compounds	4-oz glass	30 g	Cool, 4°C	14 days (extraction) 40 days (analysis)
Explosive Compounds	4-oz glass	10 g	Cool, 4°C	14 days (extraction) 40 days (analysis)
Nitroguanidine	4-oz glass	10 g	Cool, 4°C	14 days (extraction) 40 days (analysis)
Nitrocellulose	4-oz glass	10 g	Cool, 4°C	14 days (extraction) 40 days (analysis)
Metals (TAL)	4-oz glass or plastic	20 g	Cool, 4°C	180 days; Hg at 28 days
Hexavalent Chromium	4-oz glass	20 g	Cool, 4°C	24 hr (extraction) 24 hr (analysis)
Geotechnical Parameters	Moisture/Density/Porosity/K – Shelby tube TOC – no special container Grain Size Fraction – no special container	Various 100 g 5,000 g	Air tight, cool Cool NA	NA

Hg = Mercury
K= Permeability
NA = Not Applicable
RVAAP = Ravenna Army Ammunition Plant
TAL = Target Analyte List
TOC= Total Organic Carbon

C.6 REFERENCES

DoD (United States Department of Defense) 2006. *Quality Systems Manual for Environmental Laboratories*. Environmental Data Quality Workgroup. Final. Version 3. January 2006.

USACE (United States Army Corps of Engineers) 2001. *Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant, Ravenna, Ohio,* March 2001.

USACE 2007. *Louisville DoD Quality Systems Manual Supplement*. Version 1. March 2007.

USACE 2009. *Performance Based Acquisition 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1, Ravenna Army Ammunition Plant, Ravenna, Ohio*. December 2009.

USEPA (United States Environmental Protection Agency) 1994. *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. EPA-540/R-94/013. February 1994.

USEPA 1999. *Contract Laboratory Program National Functional Guidelines for Organic Data Review*. EPA-540/R-99/008. Final. October 1999.

ATTACHMENT 1

Automated Data Review Outlier Reports

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QC Outlier Report: Temperature (Non-qualified Outliers)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Sample Temperature (C)	Criteria	
					Lower Limit	Upper Limit
ATASB-008-5133-SO	A0B250463004	353.2 Modified	SO	1.2	2.0	6.0
ATASB-008-5133-SOMS	A0B250463004S	353.2 Modified	SO	1.2	2.0	6.0
ATASB-008-5133-SOMSD	A0B250463004D	353.2 Modified	SO	1.2	2.0	6.0
ATASB-008-5134-SO	A0B250463005	353.2 Modified	SO	1.2	2.0	6.0
F16SS-026M-5431-SO	A0B250463018	353.2 Modified	SO	0.8	2.0	6.0
ATASB-008-5133-SO	A0B250463004	8081A	SO	1.2	2.0	
ATASB-008-5133-SOMS	A0B250463004S	8081A	SO	1.2	2.0	
ATASB-008-5133-SOMSD	A0B250463004D	8081A	SO	1.2	2.0	
ATASB-008-5134-SO	A0B250463005	8081A	SO	1.2	2.0	
F16SS-026M-5431-SO	A0B250463018	8081A	SO	0.8	2.0	
ATASB-008-5133-SO	A0B250463004	8082	SO	1.2	2.0	
ATASB-008-5134-SO	A0B250463005	8082	SO	1.2	2.0	
ATASB-008-5134-SOMS	A0B250463005S	8082	SO	1.2	2.0	
ATASB-008-5134-SOMSD	A0B250463005D	8082	SO	1.2	2.0	
F16SS-026M-5431-SO	A0B250463018	8082	SO	0.8	2.0	
ATASB-008-5133-SO	A0B250463004	8260B	SO	1.2	2.0	
ATASB-008-5134-SO	A0B250463005	8260B	SO	1.2	2.0	
F16SS-026M-5431-SO(VO	A0B250463019	8260B	SO	0.8	2.0	
ATASB-008-5133-SO	A0B250463004	8270C	SO	1.2	2.0	
ATASB-008-5134-SO	A0B250463005	8270C	SO	1.2	2.0	
F15SS-035M-5428-SO	A0B250463014	8270C	SO	0.8	2.0	
F15SS-035M-6121-FD	A0B250463015	8270C	SO	0.8	2.0	
F15SS-036M-5427-SO	A0B250463013	8270C	SO	0.8	2.0	
F15SS-037M-5429-SO	A0B250463016	8270C	SO	0.8	2.0	
F15SS-038M-5430-SO	A0B250463017	8270C	SO	0.8	2.0	
F16SS-026M-5431-SO	A0B250463018	8270C	SO	0.8	2.0	
F16SS-027M-5432-SO	A0B250463020	8270C	SO	0.8	2.0	
F16SS-027M-5432-SOMS	A0B250463020S	8270C	SO	0.8	2.0	
F16SS-027M-5432-SOMSD	A0B250463020D	8270C	SO	0.8	2.0	

Project Number and Name: ***172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI***

QC Outlier Report: Temperature (Non-qualified Outliers)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Sample Temperature (C)	Criteria	
					Lower Limit	Upper Limit
F16SS-028M-5433-SO	A0B250463021	8270C	SO	0.8	2.0	
ATASB-006-5127-SO	A0B250463001	8330B	SO	1.2	2.0	
ATASB-006-5128-SO	A0B250463003	8330B	SO	1.2	2.0	
ATASB-006-6080-FD	A0B250463002	8330B	SO	1.2	2.0	
ATASB-008-5133-SO	A0B250463004	8330B	SO	1.2	2.0	
ATASB-008-5134-SO	A0B250463005	8330B	SO	1.2	2.0	
ATASB-009-5137-SO	A0B250463006	8330B	SO	1.2	2.0	
ATASB-009-5138-SO	A0B250463007	8330B	SO	1.2	2.0	
ATASB-009-6081-FD	A0B250463008	8330B	SO	1.2	2.0	
ATASB-010-5141-SO	A0B250463009	8330B	SO	1.2	2.0	
ATASB-010-5141-SOMS	A0B250463009S	8330B	SO	1.2	2.0	
ATASB-010-5141-SOMSD	A0B250463009D	8330B	SO	1.2	2.0	
ATASB-010-5142-SO	A0B250463010	8330B	SO	1.2	2.0	
ATASB-011-5145-SO	A0B250463011	8330B	SO	1.2	2.0	
ATASB-011-5146-SO	A0B250463012	8330B	SO	1.2	2.0	
F15SS-035M-5428-SO	A0B250463014	8330B	SO	0.8	2.0	
F15SS-035M-6121-FD	A0B250463015	8330B	SO	0.8	2.0	
F15SS-036M-5427-SO	A0B250463013	8330B	SO	0.8	2.0	
F15SS-037M-5429-SO	A0B250463016	8330B	SO	0.8	2.0	
F16SS-026M-5431-SO	A0B250463018	8330B	SO	0.8	2.0	
F16SS-027M-5432-SO	A0B250463020	8330B	SO	0.8	2.0	
F16SS-027M-5432-SOMS	A0B250463020S	8330B	SO	0.8	2.0	
F16SS-027M-5432-SOMSD	A0B250463020D	8330B	SO	0.8	2.0	
ATASB-008-5133-SO	A0B250463004	8330M	SO	1.2	2.0	
ATASB-008-5133-SOMS	A0B250463004S	8330M	SO	1.2	2.0	
ATASB-008-5133-SOMSD	A0B250463004D	8330M	SO	1.2	2.0	
ATASB-008-5134-SO	A0B250463005	8330M	SO	1.2	2.0	
F16SS-026M-5431-SO	A0B250463018	8330M	SO	0.8	2.0	

Temperature Outlier Report

Lab Report Batch: **Lab ID:**

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Sample Temp (C)	Temperature Criteria (C)			Between High and Gross Exceedence			Above Gross Exceedence		
								Detect Quals		Non-Detect Qual(s)	Detect Quals		Non-Detect Qual(s)
					Low	High	Gross Exceed	Non-Biased	Biased		Non-Biased	Biased	

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : 0057017 **Analysis Method :** 6020 **Analysis Date :** 03/01/2010

Preparation Batch : 0057017 **Preparation Type :** 3050B **Preparation Date :** 02/26/2010

Lab Reporting Batch : A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
ATASB-010-5141-SOMS	A0B250463009S	SO	Antimony	37		30.00	75.00	125.00	20.00
ATASB-010-5141-SOMS	A0B250463009D		Antimony	31		30.00	75.00	125.00	20.00

Associated Samples: All samples in Method Batch

Client Sample ID	Lab Sample ID
ATASB-010-5141-SO	A0B250463009

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

Project Number and Name: 172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : 0060040 **Analysis Method :** 8270C **Analysis Date :** 03/08/2010

Preparation Batch : 0060040 **Preparation Type :** 3540C **Preparation Date :** 03/01/2010

Lab Reporting Batch : A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
F16SS-027M-5432-SOM	A0B250463020S	SO	3,3'-Dichlorobenzidine	0.0		0.00	10.00	130.00	56.00
			3-methylphenol/4-methylphenol	0					
F16SS-027M-5432-SOM	A0B250463020D		3,3'-Dichlorobenzidine		200	0.00	10.00	130.00	56.00
			4,6-Dinitro-2-methylphenol		39	0.00	30.00	135.00	30.00

Associated Samples: Parent sample only

Client Sample ID	Lab Sample ID
F16SS-027M-5432-SO	A0B250463020

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

Project Number and Name: 172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : 0061017 **Analysis Method :** 6020 **Analysis Date :** 03/17/2010

Preparation Batch : 0061017 **Preparation Type :** 3050B **Preparation Date :** 03/02/2010

Lab Reporting Batch : A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
F16SS-027M-5432-SOM	A0B250463020S	SO	Antimony	26		30.00	75.00	125.00	20.00
F16SS-027M-5432-SOM	A0B250463020D		Antimony	25		30.00	75.00	125.00	20.00

Associated Samples: All samples in Method Batch

Client Sample ID	Lab Sample ID
ATASB-006-5127-SO	A0B250463001
ATASB-006-5128-SO	A0B250463003
ATASB-006-6080-FD	A0B250463002
ATASB-008-5133-SO	A0B250463004
ATASB-008-5134-SO	A0B250463005
ATASB-009-5137-SO	A0B250463006
ATASB-009-5138-SO	A0B250463007
ATASB-009-6081-FD	A0B250463008
ATASB-010-5142-SO	A0B250463010
ATASB-011-5145-SO	A0B250463011
ATASB-011-5146-SO	A0B250463012
F15SS-034-5436-SO	A0B250463024
F15SS-035M-5428-SO	A0B250463014
F15SS-035M-6121-FD	A0B250463015
F15SS-036M-5427-SO	A0B250463013
F15SS-037M-5429-SO	A0B250463016
F16SS-024-5434-SO	A0B250463022
F16SS-025-5435-SO	A0B250463023
F16SS-026M-5431-SO	A0B250463018
F16SS-027M-5432-SO	A0B250463020

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

Project Number and Name: 172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : 0065052 **Analysis Method :** 8330B **Analysis Date :** 03/11/2010

Preparation Batch : 0065052 **Preparation Type :** 8330B **Preparation Date :** 03/06/2010

Lab Reporting Batch : A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
ATASB-010-5141-SOMS	A0B250463009S	SO	4-Amino-2,6-Dinitrotoluene	76		0.00	80.00	125.00	30.00
ATASB-010-5141-SOMS	A0B250463009D		4-Amino-2,6-Dinitrotoluene	78		0.00	80.00	125.00	30.00
F16SS-027M-5432-SOM	A0B250463020S		4-Amino-2,6-Dinitrotoluene	74		0.00	80.00	125.00	30.00

Associated Samples: Parent sample only

Client Sample ID	Lab Sample ID
ATASB-010-5141-SO	A0B250463009
F16SS-027M-5432-SO	A0B250463020

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

Project Number and Name: 172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-006-5128-SO	A0B250463003	7471A	SO	Mercury	U	0.11	0.10570825	mg/kg
		8330B		1,3,5-Trinitrobenzene	U	0.25	0.01046512	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.26162791	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.26162791	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.26162791	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.26162791	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.26162791	mg/kg
				2-Nitrotoluene	U	0.25	0.26162791	mg/kg
				3-Nitrotoluene	U	0.25	0.26162791	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.26162791	mg/kg
				4-Nitrotoluene	U	0.50	0.52325581	mg/kg
				Nitrobenzene	U	0.25	0.26162791	mg/kg
ATASB-008-5133-SO	A0B250463004	6020	SO	Thallium	U	0.23	0.22471910	mg/kg
		8081A		4,4'-DDD	U	4.5	4.49438202	ug/kg
				4,4'-DDT	U	4.5	4.49438202	ug/kg
				Aldrin	U	9.0	8.98876404	ug/kg
				alpha-Chordane	U	6.8	6.74157303	ug/kg
				beta-BHC	U	7.9	7.86516854	ug/kg
				delta-BHC	U	9.0	8.98876404	ug/kg
				Endosulfan sulfate	U	6.8	6.74157303	ug/kg
				Endrin aldehyde	U	6.8	6.74157303	ug/kg
				Endrin ketone	U	4.5	4.49438202	ug/kg
				Heptachlor	U	7.9	7.86516854	ug/kg
		8260B		2-Butanone (MEK)	U	23	22.4719101	ug/kg
				2-Hexanone	U	23	22.4719101	ug/kg
				4-methyl-2-pentanone (MIBK)	U	23	22.4719101	ug/kg
				Acetone	U	23	22.4719101	ug/kg
		8270C		2,4-Dinitrophenol	U	900	898.876404	ug/kg
				2-Nitroaniline	U	900	898.876404	ug/kg
				3-Nitroaniline	U	900	898.876404	ug/kg
				4,6-Dinitro-2-methylphenol	U	900	898.876404	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-008-5133-SO	A0B250463004	8270C	SO	4-Nitroaniline	U	900	898.876404	ug/kg
				4-Nitrophenol	U	900	898.876404	ug/kg
				Benzoic acid	U	900	898.876404	ug/kg
		8330B		1,3,5-Trinitrobenzene	U	0.25	0.0111236	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.27808989	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.27808989	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.27808989	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.27808989	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.27808989	mg/kg
				2-Nitrotoluene	U	0.25	0.27808989	mg/kg
				3-Nitrotoluene	U	0.25	0.27808989	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.27808989	mg/kg
				4-Nitrotoluene	U	0.50	0.55617978	mg/kg
				Nitrobenzene	U	0.25	0.27808989	mg/kg
ATASB-008-5134-SO	A0B250463005	353.2 Modified	SO	Nitrocellulose	U	5.3	5.25210084	mg/kg
		7471A		Mercury	U	0.11	0.10504202	mg/kg
		8081A		4,4'-DDE	U	1.8	1.78571429	ug/kg
				alpha-Chordane	U	3.2	3.15126050	ug/kg
				beta-BHC	U	3.7	3.67647059	ug/kg
				Dieldrin	U	1.8	1.78571429	ug/kg
				Endosulfan I	U	1.8	1.78571429	ug/kg
				Endosulfan sulfate	U	3.2	3.15126050	ug/kg
				Endrin	U	1.8	1.78571429	ug/kg
				Endrin aldehyde	U	3.2	3.15126050	ug/kg
				gamma-Chlordane	U	1.8	1.78571429	ug/kg
				Heptachlor	U	3.7	3.67647059	ug/kg
				Methoxychlor	U	5.3	5.25210084	ug/kg
		8082		Aroclor 1016	U	35	1.78571429	ug/kg
				Aroclor 1221	U	35	1.78571429	ug/kg
				Aroclor 1232	U	35	1.78571429	ug/kg
				Aroclor 1242	U	35	1.78571429	ug/kg
				Aroclor 1248	U	35	1.78571429	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-008-5134-SO	A0B250463005	8082	SO	Aroclor 1254	U	35	1.78571429	ug/kg
				Aroclor 1260	U	35	1.78571429	ug/kg
		8260B		1,1,1-Trichloroethane	U	5.3	5.25210084	ug/kg
				1,1,2,2-Tetrachloroethane	U	5.3	5.25210084	ug/kg
				1,1,2-Trichloroethane	U	5.3	5.25210084	ug/kg
				1,1-Dichloroethane	U	5.3	5.25210084	ug/kg
				1,1-Dichloroethene	U	5.3	5.25210084	ug/kg
				1,2-Dibromoethane (Ethylene Dibro	U	5.3	5.25210084	ug/kg
				1,2-Dichloroethane	U	5.3	5.25210084	ug/kg
				1,2-Dichloroethene (total)	U	5.3	5.25210084	ug/kg
				1,2-Dichloropropane	U	5.3	5.25210084	ug/kg
				Benzene	U	5.3	5.25210084	ug/kg
				Bromochloromethane	U	5.3	5.25210084	ug/kg
				Bromodichloromethane	U	5.3	5.25210084	ug/kg
				Bromoform	U	5.3	5.25210084	ug/kg
				Bromomethane (Methyl bromide)	U	5.3	5.25210084	ug/kg
				Carbon disulfide	U	5.3	5.25210084	ug/kg
				Carbon tetrachloride	U	5.3	5.25210084	ug/kg
				Chlorobenzene	U	5.3	5.25210084	ug/kg
				Chlorodibromomethane	U	5.3	5.25210084	ug/kg
				Chloroethane	U	5.3	5.25210084	ug/kg
				Chloroform	U	5.3	5.25210084	ug/kg
				Chloromethane	U	5.3	5.25210084	ug/kg
				cis-1,3-Dichloropropene	U	5.3	5.25210084	ug/kg
				Ethylbenzene	U	5.3	5.25210084	ug/kg
				Methylene chloride	U	5.3	5.25210084	ug/kg
				Styrene	U	5.3	5.25210084	ug/kg
				Tetrachloroethene	U	5.3	5.25210084	ug/kg
				trans-1,3-Dichloropropene	U	5.3	5.25210084	ug/kg
				Trichloroethene	U	5.3	5.25210084	ug/kg
				Vinyl chloride	U	5.3	5.25210084	ug/kg
				Xylene (Total)	U	11	10.5042017	ug/kg
		8270C		1,2,4-Trichlorobenzene	U	350	346.638655	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-008-5134-SO	A0B250463005	8270C	SO	1,2-Dichlorobenzene	U	350	346.638655	ug/kg
				1,3-Dichlorobenzene	U	350	346.638655	ug/kg
				1,4-Dichlorobenzene	U	350	346.638655	ug/kg
				2,4,5-Trichlorophenol	U	350	346.638655	ug/kg
				2,4,6-Trichlorophenol	U	350	346.638655	ug/kg
				2,4-Dichlorophenol	U	350	346.638655	ug/kg
				2,4-Dimethylphenol	U	350	346.638655	ug/kg
				2,4-Dinitrotoluene	U	350	346.638655	ug/kg
				2,6-Dinitrotoluene	U	350	346.638655	ug/kg
				2-Chloronaphthalene	U	350	346.638655	ug/kg
				2-Chlorophenol	U	350	346.638655	ug/kg
				2-Methylnaphthalene	U	350	346.638655	ug/kg
				2-Methylphenol	U	350	346.638655	ug/kg
				2-Nitrophenol	U	350	346.638655	ug/kg
				3,3'-Dichlorobenzidine	U	350	346.638655	ug/kg
				3-methylphenol/4-methylphenol	U	350	#Error	ug/kg
				4-Bromophenyl phenyl ether	U	350	346.638655	ug/kg
				4-Chloro-3-methylphenol	U	350	346.638655	ug/kg
				4-Chloroaniline	U	350	346.638655	ug/kg
				4-Chlorophenyl phenyl ether	U	350	346.638655	ug/kg
				Acenaphthene	U	53	52.5210084	ug/kg
				Acenaphthylene	U	53	52.5210084	ug/kg
				Anthracene	U	53	52.5210084	ug/kg
				Benz[a]anthracene	U	53	52.5210084	ug/kg
				Benzo[a]pyrene	U	53	52.5210084	ug/kg
				Benzo[b]fluoranthene	U	53	52.5210084	ug/kg
				Benzo[g,h,i]perylene	U	53	52.5210084	ug/kg
				Benzo[k]fluoranthene	U	53	52.5210084	ug/kg
				Benzyl alcohol	U	350	346.638655	ug/kg
				bis(2-Chloroethoxy)methane	U	350	346.638655	ug/kg
				bis(2-Chloroethyl) ether	U	350	346.638655	ug/kg
				Bis(2-chloroisopropyl) ether	U	350	346.638655	ug/kg
				Butyl benzyl phthalate	U	350	346.638655	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-008-5134-SO	A0B250463005	8270C	SO	Carbazole	U	53	52.5210084	ug/kg
				Chrysene	U	53	52.5210084	ug/kg
				dibenz[a,h]anthracene	U	53	52.5210084	ug/kg
				Dibenzofuran	U	350	346.638655	ug/kg
				Diethyl phthalate	U	350	346.638655	ug/kg
				Dimethyl phthalate	U	350	346.638655	ug/kg
				Di-n-butyl phthalate	U	350	346.638655	ug/kg
				Di-n-octyl phthalate	U	350	346.638655	ug/kg
				Fluoranthene	U	53	52.5210084	ug/kg
				Fluorene	U	53	52.5210084	ug/kg
				Hexachlorobenzene	U	350	346.638655	ug/kg
				Hexachlorobutadiene	U	350	346.638655	ug/kg
				HEXACHLOROCYCLOPENTADIE	U	350	#Error	ug/kg
				Hexachloroethane	U	350	346.638655	ug/kg
				Indeno[1,2,3-cd]pyrene	U	53	52.5210084	ug/kg
				Isophorone	U	350	346.638655	ug/kg
				Naphthalene	U	53	52.5210084	ug/kg
				Nitrobenzene	U	350	346.638655	ug/kg
				N-Nitrosodi-n-propylamine	U	350	346.638655	ug/kg
				N-Nitrosodiphenylamine	U	350	346.638655	ug/kg
				Pentachlorophenol	U	350	346.638655	ug/kg
				Phenanthrene	U	53	52.5210084	ug/kg
				Phenol	U	350	346.638655	ug/kg
				Pyrene	U	53	346.638655	ug/kg
		8330B		1,3,5-Trinitrobenzene	U	0.25	0.01039916	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.25997899	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25997899	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25997899	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25997899	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25997899	mg/kg
				2-Nitrotoluene	U	0.25	0.25997899	mg/kg
				3-Nitrotoluene	U	0.25	0.25997899	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25997899	mg/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-008-5134-SO	A0B250463005	8330B	SO	4-Nitrotoluene	U	0.50	0.51995798	mg/kg
				Nitrobenzene	U	0.25	0.25997899	mg/kg
ATASB-009-5137-SO	A0B250463006	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01253165	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.31329114	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.31329114	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.31329114	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.31329114	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.31329114	mg/kg
				2-Nitrotoluene	U	0.25	0.31329114	mg/kg
				3-Nitrotoluene	U	0.25	0.31329114	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.31329114	mg/kg
				4-Nitrotoluene	U	0.50	0.62658228	mg/kg
				Nitrobenzene	U	0.25	0.31329114	mg/kg
ATASB-009-5138-SO	A0B250463007	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01192771	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.29819277	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.29819277	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.29819277	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.29819277	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.29819277	mg/kg
				2-Nitrotoluene	U	0.25	0.29819277	mg/kg
				3-Nitrotoluene	U	0.25	0.29819277	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.29819277	mg/kg
				4-Nitrotoluene	U	0.50	0.59638554	mg/kg
				Nitrobenzene	U	0.25	0.29819277	mg/kg
ATASB-009-6081-FD	A0B250463008	7471A	SO	Mercury	U	0.12	0.11494253	mg/kg
		8330B		1,3,5-Trinitrobenzene	U	0.25	0.01137931	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.28448276	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.28448276	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.28448276	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.28448276	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.28448276	mg/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-009-6081-FD	A0B250463008	8330B	SO	2-Nitrotoluene	U	0.25	0.28448276	mg/kg
				3-Nitrotoluene	U	0.25	0.28448276	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.28448276	mg/kg
				4-Nitrotoluene	U	0.50	0.56896552	mg/kg
				Nitrobenzene	U	0.25	0.28448276	mg/kg
ATASB-010-5141-SO	A0B250463009	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01302632	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.32565789	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.32565789	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.32565789	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.32565789	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.32565789	mg/kg
				2-Nitrotoluene	U	0.25	0.32565789	mg/kg
				3-Nitrotoluene	U	0.25	0.32565789	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.32565789	mg/kg
				4-Nitrotoluene	U	0.50	0.65131579	mg/kg
				Nitrobenzene	U	0.25	0.32565789	mg/kg
ATASB-010-5142-SO	A0B250463010	7471A	SO	Mercury	U	0.12	0.11904762	mg/kg
		8330B		1,3,5-Trinitrobenzene	U	0.25	0.01178571	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.29464286	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.29464286	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.29464286	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.29464286	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.29464286	mg/kg
				2-Nitrotoluene	U	0.25	0.29464286	mg/kg
				3-Nitrotoluene	U	0.25	0.29464286	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.29464286	mg/kg
				4-Nitrotoluene	U	0.50	0.58928571	mg/kg
				Nitrobenzene	U	0.25	0.29464286	mg/kg
ATASB-011-5145-SO	A0B250463011	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01394366	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.34859155	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.34859155	mg/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-011-5145-SO	A0B250463011	8330B	SO	2,4-Dinitrotoluene	U	0.25	0.34859155	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.34859155	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.34859155	mg/kg
				2-Nitrotoluene	U	0.25	0.34859155	mg/kg
				3-Nitrotoluene	U	0.25	0.34859155	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.34859155	mg/kg
				4-Nitrotoluene	U	0.50	0.6971831	mg/kg
				Nitrobenzene	U	0.25	0.34859155	mg/kg
ATASB-011-5146-SO	A0B250463012	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01269231	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.31730769	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.31730769	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.31730769	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.31730769	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.31730769	mg/kg
				2-Nitrotoluene	U	0.25	0.31730769	mg/kg
				3-Nitrotoluene	U	0.25	0.31730769	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.31730769	mg/kg
				4-Nitrotoluene	U	0.50	0.63461538	mg/kg
				Nitrobenzene	U	0.25	0.31730769	mg/kg
F15SS-035M-5428-SO	A0B250463014	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01010204	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.25255102	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25255102	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25255102	mg/kg
				2-Nitrotoluene	U	0.25	0.25255102	mg/kg
				3-Nitrotoluene	U	0.25	0.25255102	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				4-Nitrotoluene	U	0.50	0.50510204	mg/kg
				Nitrobenzene	U	0.25	0.25255102	mg/kg
F15SS-036M-5427-SO	A0B250463013	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01009174	mg/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
F15SS-036M-5427-SO	A0B250463013	8330B	SO	1,3-Dinitrobenzene	U	0.25	0.25229358	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25229358	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25229358	mg/kg
				2-Nitrotoluene	U	0.25	0.25229358	mg/kg
				3-Nitrotoluene	U	0.25	0.25229358	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				4-Nitrotoluene	U	0.50	0.50458716	mg/kg
				Nitrobenzene	U	0.25	0.25229358	mg/kg
F16SS-026M-5431-SO	A0B250463018	8081A	SO	4,4'-DDD	U	41	40.8163265	ug/kg
				4,4'-DDE	U	35	34.6938776	ug/kg
				4,4'-DDT	U	41	40.8163265	ug/kg
				Aldrin	U	82	81.6326531	ug/kg
				delta-BHC	U	82	81.6326531	ug/kg
				Dieldrin	U	35	34.6938776	ug/kg
				Endosulfan I	U	35	34.6938776	ug/kg
				Endrin	U	35	34.6938776	ug/kg
				Endrin ketone	U	41	40.8163265	ug/kg
				gamma-Chlordane	U	35	34.6938776	ug/kg
				Toxaphene	U	1400	1367.34694	ug/kg
		8082		Aroclor 1016	U	34	1.73469388	ug/kg
				Aroclor 1221	U	34	1.73469388	ug/kg
				Aroclor 1232	U	34	1.73469388	ug/kg
				Aroclor 1242	U	34	1.73469388	ug/kg
				Aroclor 1248	U	34	1.73469388	ug/kg
				Aroclor 1254	U	34	1.73469388	ug/kg
				Aroclor 1260	U	34	1.73469388	ug/kg
		8270C		2,4-Dinitrophenol	U	3300	3265.30612	ug/kg
				2-Nitroaniline	U	3300	3265.30612	ug/kg
				3-Nitroaniline	U	3300	3265.30612	ug/kg
				4,6-Dinitro-2-methylphenol	U	3300	3265.30612	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
F16SS-026M-5431-SO	A0B250463018	8270C	SO	4-Nitroaniline	U	3300	3265.30612	ug/kg
				4-Nitrophenol	U	3300	3265.30612	ug/kg
				Benzoic acid	U	3300	3265.30612	ug/kg
F16SS-027M-5432-SO	A0B250463020	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01010204	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.25255102	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25255102	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25255102	mg/kg
				2-Nitrotoluene	U	0.25	0.25255102	mg/kg
				3-Nitrotoluene	U	0.25	0.25255102	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				4-Nitrotoluene	U	0.50	0.50510204	mg/kg
				Nitrobenzene	U	0.25	0.25255102	mg/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

Continuing Calibration (CCV) Outlier Report (Organics)

There are no Organic Continuing Calibrations with outliers

Continuing Calibration (CCAL) Outlier Report (Inorganics)

There are no Inorganic Continuing Calibrations with outliers

Reporting Limits Outlier Report (detected results reported below the reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	EDD Reporting Limit	Units
ATASB-006-5127-SO	A0B250463001	6020	SO	Antimony	J	0.12	0.56	mg/kg
				Cadmium	J	0.095	0.22	mg/kg
				Selenium	J	0.51	0.56	mg/kg
				Silver	J	0.021	0.56	mg/kg
				Sodium	J	35.2	112	mg/kg
				Thallium	J	0.068	0.22	mg/kg
		7471A		Mercury	J	0.061	0.11	mg/kg
ATASB-006-5128-SO	A0B250463003	6020		Antimony	J	0.085	0.53	mg/kg
				Cadmium	J	0.063	0.21	mg/kg
				Silver	J	0.017	0.53	mg/kg
				Sodium	J	48.9	106	mg/kg
ATASB-006-6080-FD	A0B250463002			Antimony	J	0.10	0.55	mg/kg
				Cadmium	J	0.19	0.22	mg/kg
				Selenium	J	0.48	0.55	mg/kg
				Silver	J	0.028	0.55	mg/kg
				Sodium	J	37.7	111	mg/kg
				Thallium	J	0.075	0.22	mg/kg
		7471A		Mercury	J	0.017	0.11	mg/kg
ATASB-008-5133-SO	A0B250463004	353.2 Modified		Nitrocellulose	B	0.97	5.6	mg/kg
		6020		Antimony	J	0.10	0.56	mg/kg
				Cadmium	J	0.069	0.23	mg/kg
				Silver	J	0.014	0.56	mg/kg
				Sodium	J	31.7	113	mg/kg
		8260B		Toluene	J	0.34	5.6	ug/kg
		8270C		bis(2-Ethylhexyl) phthalate	J B	26	370	ug/kg
ATASB-008-5134-SO	A0B250463005	6020		Antimony	J	0.11	0.53	mg/kg
				Cadmium	J	0.063	0.21	mg/kg
				Silver	J	0.017	0.53	mg/kg
				Sodium	J	40.0	105	mg/kg
		8260B		Toluene	J	0.43	5.3	ug/kg
		8270C		bis(2-Ethylhexyl) phthalate	J B	20	350	ug/kg
ATASB-009-5137-SO	A0B250463006	6020		Antimony	J	0.11	0.64	mg/kg
				Cadmium	J	0.042	0.25	mg/kg
				Silver	J	0.021	0.64	mg/kg
				Sodium	J	43.8	127	mg/kg
				Thallium	J	0.17	0.25	mg/kg

Reporting Limits Outlier Report (detected results reported below the reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	EDD Reporting Limit	Units
ATASB-009-5137-SO	A0B250463006	7471A	SO	Mercury	J	0.049	0.13	mg/kg
ATASB-009-5138-SO	A0B250463007	6020		Antimony	J	0.084	0.61	mg/kg
				Cadmium	J	0.082	0.24	mg/kg
				Silver	J	0.020	0.61	mg/kg
				Sodium	J	96.4	121	mg/kg
				Thallium	J	0.20	0.24	mg/kg
		7471A		Mercury	J	0.033	0.12	mg/kg
ATASB-009-6081-FD	A0B250463008	6020		Antimony	J	0.076	0.58	mg/kg
				Cadmium	J	0.080	0.23	mg/kg
				Silver	J	0.019	0.58	mg/kg
				Sodium	J	61.3	115	mg/kg
				Thallium	J	0.089	0.23	mg/kg
ATASB-010-5141-SO	A0B250463009			Antimony	J	0.15	0.66	mg/kg
				Cadmium	J	0.028	0.26	mg/kg
				Silver	J	0.024	0.66	mg/kg
				Sodium	J	103	132	mg/kg
				Thallium	J	0.20	0.26	mg/kg
		7471A		Mercury	J	0.048	0.13	mg/kg
ATASB-010-5142-SO	A0B250463010	6020		Antimony	J	0.10	0.60	mg/kg
				Cadmium	J	0.085	0.24	mg/kg
				Silver	J	0.013	0.60	mg/kg
				Sodium	J	66.3	119	mg/kg
				Thallium	J	0.18	0.24	mg/kg
ATASB-011-5145-SO	A0B250463011			Antimony	J	0.13	0.71	mg/kg
				Cadmium	J	0.12	0.28	mg/kg
				Silver	J	0.040	0.71	mg/kg
				Sodium	J	36.9	141	mg/kg
				Thallium	J	0.17	0.28	mg/kg
		7471A		Mercury	J	0.077	0.14	mg/kg
ATASB-011-5146-SO	A0B250463012	6020		Antimony	J	0.090	0.64	mg/kg
				Cadmium	J	0.042	0.26	mg/kg
				Silver	J	0.021	0.64	mg/kg
				Sodium	J	45.5	128	mg/kg
				Thallium	J	0.18	0.26	mg/kg
		7471A		Mercury	J	0.040	0.13	mg/kg
F15SS-035M-5428-SO	A0B250463014	6020		Antimony	J	0.16	0.51	mg/kg

Reporting Limits Outlier Report (detected results reported below the reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	EDD Reporting Limit	Units
F15SS-035M-5428-SO	A0B250463014	6020	SO	Cadmium	J	0.17	0.20	mg/kg
				Silver	J	0.037	0.51	mg/kg
				Thallium	J	0.17	0.20	mg/kg
		7471A		Mercury	J	0.059	0.10	mg/kg
F15SS-035M-6121-FD	A0B250463015	6020		Antimony	J	0.18	0.51	mg/kg
				Cadmium	J	0.16	0.20	mg/kg
				Silver	J	0.034	0.51	mg/kg
				Sodium	J	96.5	102	mg/kg
				Thallium	J	0.17	0.20	mg/kg
		7471A		Mercury	J	0.044	0.10	mg/kg
F15SS-036M-5427-SO	A0B250463013	6020		Antimony	J	0.16	0.51	mg/kg
				Silver	J	0.043	0.51	mg/kg
				Sodium	J	77.3	102	mg/kg
				Thallium	J	0.14	0.20	mg/kg
		7471A		Mercury	J	0.072	0.10	mg/kg
F15SS-037M-5429-SO	A0B250463016	6020		Antimony	J	0.30	0.51	mg/kg
				Silver	J	0.043	0.51	mg/kg
				Sodium	J	47.9	103	mg/kg
				Thallium	J	0.18	0.21	mg/kg
		7471A		Mercury	J	0.050	0.10	mg/kg
F16SS-025-5435-SO	A0B250463023	7196A		Chromium, hexavalent	J	0.40	1.1	mg/kg
F16SS-026M-5431-SO	A0B250463018	353.2 Modified		Nitrocellulose	B	1.1	5.1	mg/kg
		6020		Antimony	J	0.18	0.51	mg/kg
				Cadmium	J	0.17	0.20	mg/kg
				Silver	J	0.034	0.51	mg/kg
				Sodium	J	67.5	102	mg/kg
				Thallium	J	0.18	0.20	mg/kg
		7471A		Mercury	J	0.048	0.10	mg/kg
		8270C		2-Methylnaphthalene	J	140	1300	ug/kg
				Benzo[b]fluoranthene	J	31	200	ug/kg
				bis(2-Ethylhexyl) phthalate	J B	93	1300	ug/kg
				Chrysene	J	31	200	ug/kg
				Fluoranthene	J	40	200	ug/kg
				Naphthalene	J	69	200	ug/kg
				Phenanthrene	J	57	200	ug/kg
				Pyrene	J	34	200	ug/kg

Reporting Limits Outlier Report (detected results reported below the reporting limit)

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	EDD Reporting Limit	Units
F16SS-026M-5431-SO(VO	A0B250463019	8260B	SO	Chloroform	J	0.68	6.7	ug/kg
F16SS-027M-5432-SO	A0B250463020	6020		Antimony	J	0.17	0.51	mg/kg
				Silver	J	0.048	0.51	mg/kg
				Sodium	J	92.3	102	mg/kg
				Thallium	J	0.19	0.20	mg/kg
		7471A		Mercury	J	0.045	0.10	mg/kg

Method Blank Outlier Report

Lab Reporting Batch : A0B250463
Lab ID: TALCAN
Analysis Method : 6020
Analysis Date : 03/01/2010
Preparation Type : 3050B
Preparation Date : 02/26/2010
Method Blank Lab Sample ID : A0B260000017B
Preparation Batch : 0057017

Potassium	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**3.8**	**100**	**mg/kg**	**J**	

Potassium contamination found in the method blank did not qualify any samples.

Method Blank Outlier Report

Lab Reporting Batch : A0B250463
Lab ID: TALCAN
Analysis Method : 8270C
Analysis Date : 03/12/2010
Preparation Type : 3540C
Preparation Date : 03/01/2010
Method Blank Lab Sample ID : A0C010000040B
Preparation Batch : 0060040

bis(2-Ethylhexyl) phthalate	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**20**	**330**	**ug/kg**	**J**	**Common Contaminant**

bis(2-Ethylhexyl) phthalate was qualified due to method blank contamination in the following associated samples:

Client Sample ID	Lab Sample ID	Dilution	Result	Lab Qual	Result Units
ATASB-008-5133-SO	A0B250463004	1	26	J B	ug/kg
ATASB-008-5134-SO	A0B250463005	1	20	J B	ug/kg
F16SS-026M-5431-SO	A0B250463018	4	93	J B	ug/kg

Method Blank Outlier Report

Lab Reporting Batch : A0B250463
Lab ID: TALCAN
Analysis Method : 8260B
Analysis Date : 02/26/2010
Preparation Type : 5030B
Preparation Date : 02/26/2010
Method Blank Lab Sample ID : A0C010000098B
Preparation Batch : 0060098

2-Butanone (MEK)	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	3.4	20	ug/kg	J	Common Contaminant

2-Butanone (MEK) contamination found in the method blank did not qualify any samples.

2-Hexanone	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	1.7	20	ug/kg	J	

2-Hexanone contamination found in the method blank did not qualify any samples.

Acetone	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	11	20	ug/kg	J	Common Contaminant

Acetone contamination found in the method blank did not qualify any samples.

Method Blank Outlier Report

Lab Reporting Batch : A0B250463 **Lab ID:** TALCAN

Analysis Method : 6020 **Analysis Date :** 03/17/2010

Preparation Type : 3050B **Preparation Date :** 03/02/2010

Method Blank Lab Sample ID : A0C020000017B **Preparation Batch :** 0061017

Aluminum	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	3.5	10.0	mg/kg	J	

Aluminum contamination found in the method blank did not qualify any samples.

Cobalt	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	0.0047	0.50	mg/kg	J	

Cobalt contamination found in the method blank did not qualify any samples.

Iron	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	21.4	50.0	mg/kg	J	

Iron contamination found in the method blank did not qualify any samples.

Zinc	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	1.2	4.0	mg/kg	J	

Zinc contamination found in the method blank did not qualify any samples.

Surrogate Recovery Outlier Report

Lab Report Batch: A0B250463 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Dilution	Matrix	Surrogate	Percent Recovery	Criteria (percent) Lower Limit	Upper Limit	Reject Point	Associated Target Analytes
F16SS-026M-5431-SO	A0B250463018	8081A	20	SO	Decachlorobiphenyl	150	55.0	130.0	10.0	All Target
F16SS-028M-5433-SO	A0B250463021	8270C	1	SO	2,4,6-Tribromophenol	9.5	35.0	125.0	10.0	Acid
					2-Fluorophenol	11	35.0	105.0	10.0	Acid
					Phenol-d5	9.6	40.0	100.0	10.0	Acid
					2-Fluorobiphenyl	9.1	45.0	105.0	10.0	Base/Neutral
					Nitrobenzene-d5	9.3				Base/Neutral

QC Outlier Report: Field Duplicates (Non-qualified Outliers)

Lab Report Batch: **Lab ID:**

			Field Sample				Field Sample Duplicate						
Analysis Method	Matrix	Analyte Name	Client Sample ID	Ana Type	Result	Lab Qualifier	Client Sample Duplicate ID	Ana Type	Result	Lab Qualifiers	RPD Dup* (%)	RPD Criteria (%)	Result Units

Note: Outlier report also includes analytes detected in one sample but not in the related sample, i.e., analyte was detected in the field sample but not in the field duplicate sample, or vice versa. In this case, RPD value assigned to the field duplicate sample is 200.

QC Outlier Report: Temperature (Non-qualified Outliers)

Lab Report Batch: A0B250453 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Sample Temperature (C)	Criteria	
					Lower Limit	Upper Limit
ATASB-008-5135-SO	A0B250453002	8081A	SO	1.2	2.0	
ATASB-008-5135-SOMS	A0B250453002S	8081A	SO	1.2	2.0	
ATASB-008-5135-SOMSD	A0B250453002D	8081A	SO	1.2	2.0	
ATASB-008-5135-SO	A0B250453002	8082	SO	1.2	2.0	
		8260B	SO	1.2	2.0	
		8270C	SO	1.2	2.0	

Temperature Outlier Report

Lab Report Batch: **Lab ID:**

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Sample Temp (C)	Temperature Criteria (C)			Between High and Gross Exceedence			Above Gross Exceedence		
								Detect Quals		Non-Detect Qual(s)	Detect Quals		Non-Detect Qual(s)
					Low	High	Gross Exceed	Non-Biased	Biased		Non-Biased	Biased	

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250453 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-006-5129-SO	A0B250453001	7471A	SO	Mercury	U	0.11	0.10593220	mg/kg
ATASB-008-5135-SO	A0B250453002	7471A	SO	Mercury	U	0.11	0.10626993	mg/kg
		8081A		Aldrin	U	4.3	4.25079702	ug/kg
				alpha-BHC	U	2.7	2.65674814	ug/kg
				alpha-Chordane	U	3.2	3.18809777	ug/kg
				delta-BHC	U	4.3	4.25079702	ug/kg
				Endosulfan II	U	2.7	2.65674814	ug/kg
				Endosulfan sulfate	U	3.2	3.18809777	ug/kg
				Endrin aldehyde	U	3.2	3.18809777	ug/kg
				gamma-BHC (Lindane)	U	2.7	2.65674814	ug/kg
				Heptachlor epoxide	U	2.7	2.65674814	ug/kg
		8260B		Xylene (Total)	U	11	10.6269926	ug/kg
ATASB-010-5143-SO	A0B250453004	7471A	SO	Mercury	U	0.12	0.11764706	mg/kg
ATASB-011-5147-SO	A0B250453005	7471A	SO	Mercury	U	0.12	0.11627907	mg/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

Continuing Calibration (CCV) Outlier Report (Organics)

There are no Organic Continuing Calibrations with outliers

Continuing Calibration (CCAL) Outlier Report (Inorganics)

There are no Inorganic Continuing Calibrations with outliers

Reporting Limits Outlier Report (detected results reported below the reporting limit)

Lab Report Batch: A0B250453 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	EDD Reporting Limit	Units
ATASB-006-5129-SO	A0B250453001	6020	SO	Antimony	J	0.072	0.53	mg/kg
				Cadmium	J	0.059	0.21	mg/kg
				Selenium	J	0.46	0.53	mg/kg
				Silver	J	0.014	0.53	mg/kg
				Sodium	J	43.6	106	mg/kg
				Thallium	J	0.084	0.21	mg/kg
ATASB-008-5135-SO	A0B250453002			Antimony	J	0.067	0.53	mg/kg
				Cadmium	J	0.062	0.21	mg/kg
				Selenium	J	0.39	0.53	mg/kg
				Silver	J	0.011	0.53	mg/kg
				Sodium	J	62.6	106	mg/kg
		8260B		Methylene chloride	J	0.80	5.3	ug/kg
				Toluene	J	0.50	5.3	ug/kg
		8270C		bis(2-Ethylhexyl) phthalate	J	25	350	ug/kg
ATASB-009-5139-SO	A0B250453003	6020		Antimony	J	0.071	0.55	mg/kg
				Cadmium	J	0.062	0.22	mg/kg
				Selenium	J	0.48	0.55	mg/kg
				Silver	J	0.020	0.55	mg/kg
				Sodium	J	59.2	111	mg/kg
				Thallium	J	0.12	0.22	mg/kg
ATASB-010-5143-SO	A0B250453004			Antimony	J	0.078	0.59	mg/kg
				Cadmium	J	0.082	0.23	mg/kg
				Silver	J	0.023	0.59	mg/kg
				Sodium	J	70.3	117	mg/kg
				Thallium	J	0.16	0.23	mg/kg
ATASB-011-5147-SO	A0B250453005			Antimony	J	0.074	0.58	mg/kg
				Cadmium	J	0.080	0.23	mg/kg
				Silver	J	0.019	0.58	mg/kg
				Sodium	J	91.5	117	mg/kg
				Thallium	J	0.18	0.23	mg/kg

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : 0054027 **Analysis Method :** 8270C **Analysis Date :** 03/02/2010

Preparation Batch : 0054027 **Preparation Type :** 3540C **Preparation Date :** 02/23/2010

Lab Reporting Batch : A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
B12SS-036M-5038-SOM	A0B180429001S	SO	Acenaphthene	44		0.00	45.00	110.00	44.00
			Anthracene	49		0.00	55.00	105.00	30.00
			Benz[a]anthracene	48		0.00	50.00	110.00	30.00
			Benzo[a]pyrene	41		0.00	50.00	110.00	30.00
			Chrysene	48		0.00	55.00	110.00	30.00
			Fluorene	46		0.00	50.00	110.00	29.00
			Phenanthrene	48		0.00	50.00	110.00	20.00
B12SS-036M-5038-SOM	A0B180429001D		Phenanthrene		27	0.00	50.00	110.00	20.00

Associated Samples: Parent sample only

Client Sample ID	Lab Sample ID
B12SS-036M-5038-SO	A0B180429001

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

Project Number and Name: 172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASS-015M-5036-SO	A0B180429012	8081A	SO	4,4'-DDD	U	4.1	4.07747197	ug/kg
				4,4'-DDE	U	3.5	3.46585117	ug/kg
				4,4'-DDT	U	4.1	4.07747197	ug/kg
				Aldrin	U	8.2	8.15494393	ug/kg
				alpha-BHC	U	5.1	5.09683996	ug/kg
				delta-BHC	U	8.2	8.15494393	ug/kg
				Dieldrin	U	3.5	3.46585117	ug/kg
				Endosulfan I	U	3.5	3.46585117	ug/kg
				Endosulfan II	U	5.1	5.09683996	ug/kg
				Endrin	U	3.5	3.46585117	ug/kg
				Endrin ketone	U	4.1	4.07747197	ug/kg
				gamma-BHC (Lindane)	U	5.1	5.09683996	ug/kg
				gamma-Chlordane	U	3.5	3.46585117	ug/kg
				Heptachlor epoxide	U	5.1	5.09683996	ug/kg
				Toxaphene	U	140	136.595311	ug/kg
		8082		Aroclor 1016	U	34	1.73292559	ug/kg
				Aroclor 1221	U	34	1.73292559	ug/kg
				Aroclor 1232	U	34	1.73292559	ug/kg
				Aroclor 1242	U	34	1.73292559	ug/kg
				Aroclor 1248	U	34	1.73292559	ug/kg
				Aroclor 1254	U	34	1.73292559	ug/kg
				Aroclor 1260	U	34	1.73292559	ug/kg
		8270C		1,2,4-Trichlorobenzene	U	340	336.391437	ug/kg
				1,2-Dichlorobenzene	U	340	336.391437	ug/kg
				1,3-Dichlorobenzene	U	340	336.391437	ug/kg
				1,4-Dichlorobenzene	U	340	336.391437	ug/kg
				2,4,5-Trichlorophenol	U	340	336.391437	ug/kg
				2,4,6-Trichlorophenol	U	340	336.391437	ug/kg
				2,4-Dichlorophenol	U	340	336.391437	ug/kg
				2,4-Dimethylphenol	U	340	336.391437	ug/kg
				2,4-Dinitrophenol	U	820	815.494393	ug/kg
				2,4-Dinitrotoluene	U	340	336.391437	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASS-015M-5036-SO	A0B180429012	8270C	SO	2,6-Dinitrotoluene	U	340	336.391437	ug/kg
				2-Chloronaphthalene	U	340	336.391437	ug/kg
				2-Chlorophenol	U	340	336.391437	ug/kg
				2-Methylphenol	U	340	336.391437	ug/kg
				2-Nitroaniline	U	820	815.494393	ug/kg
				2-Nitrophenol	U	340	336.391437	ug/kg
				3,3'-Dichlorobenzidine	U	340	336.391437	ug/kg
				3-methylphenol/4-methylphenol	U	340	#Error	ug/kg
				3-Nitroaniline	U	820	815.494393	ug/kg
				4,6-Dinitro-2-methylphenol	U	820	815.494393	ug/kg
				4-Bromophenyl phenyl ether	U	340	336.391437	ug/kg
				4-Chloro-3-methylphenol	U	340	336.391437	ug/kg
				4-Chloroaniline	U	340	336.391437	ug/kg
				4-Chlorophenyl phenyl ether	U	340	336.391437	ug/kg
				4-Nitroaniline	U	820	815.494393	ug/kg
				4-Nitrophenol	U	820	815.494393	ug/kg
				Acenaphthene	U	51	50.9683996	ug/kg
				Acenaphthylene	U	51	50.9683996	ug/kg
				Anthracene	U	51	50.9683996	ug/kg
				Benz[a]anthracene	U	51	50.9683996	ug/kg
				Benzo[a]pyrene	U	51	50.9683996	ug/kg
				Benzo[b]fluoranthene	U	51	50.9683996	ug/kg
				Benzo[g,h,i]perylene	U	51	50.9683996	ug/kg
				Benzo[k]fluoranthene	U	51	50.9683996	ug/kg
				Benzoic acid	U	820	815.494393	ug/kg
				Benzyl alcohol	U	340	336.391437	ug/kg
				bis(2-Chloroethoxy)methane	U	340	336.391437	ug/kg
				bis(2-Chloroethyl) ether	U	340	336.391437	ug/kg
				Bis(2-chloroisopropyl) ether	U	340	336.391437	ug/kg
				Butyl benzyl phthalate	U	340	336.391437	ug/kg
				Carbazole	U	51	50.9683996	ug/kg
				Chrysene	U	51	50.9683996	ug/kg
				dibenz[a,h]anthracene	U	51	50.9683996	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASS-015M-5036-SO	A0B180429012	8270C	SO	Dibenzofuran	U	340	336.391437	ug/kg
				Diethyl phthalate	U	340	336.391437	ug/kg
				Dimethyl phthalate	U	340	336.391437	ug/kg
				Di-n-butyl phthalate	U	340	336.391437	ug/kg
				Di-n-octyl phthalate	U	340	336.391437	ug/kg
				Fluoranthene	U	51	50.9683996	ug/kg
				Fluorene	U	51	50.9683996	ug/kg
				Hexachlorobenzene	U	340	336.391437	ug/kg
				Hexachlorobutadiene	U	340	336.391437	ug/kg
				HEXACHLOROCYCLOPENTADIE	U	340	#Error	ug/kg
				Hexachloroethane	U	340	336.391437	ug/kg
				Indeno[1,2,3-cd]pyrene	U	51	50.9683996	ug/kg
				Isophorone	U	340	336.391437	ug/kg
				Nitrobenzene	U	340	336.391437	ug/kg
				N-Nitrosodi-n-propylamine	U	340	336.391437	ug/kg
				N-Nitrosodiphenylamine	U	340	336.391437	ug/kg
				Pentachlorophenol	U	340	336.391437	ug/kg
				Phenanthrene	U	51	50.9683996	ug/kg
				Phenol	U	340	336.391437	ug/kg
				Pyrene	U	51	336.391437	ug/kg
		8330B		1,3,5-Trinitrobenzene	U	0.25	0.01009174	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.25229358	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25229358	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25229358	mg/kg
				2-Nitrotoluene	U	0.25	0.25229358	mg/kg
				3-Nitrotoluene	U	0.25	0.25229358	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				4-Nitrotoluene	U	0.50	0.50458716	mg/kg
				Nitrobenzene	U	0.25	0.25229358	mg/kg
ATASS-015M-5036-SO(V	A0B180429013	8260B	SO	1,1,1-Trichloroethane	U	6.7	6.66666667	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASS-015M-5036-SO(V	A0B180429013	8260B	SO	1,1,2,2-Tetrachloroethane	U	6.7	6.66666667	ug/kg
				1,1,2-Trichloroethane	U	6.7	6.66666667	ug/kg
				1,1-Dichloroethane	U	6.7	6.66666667	ug/kg
				1,1-Dichloroethene	U	6.7	6.66666667	ug/kg
				1,2-Dibromoethane (Ethylene Dibro	U	6.7	6.66666667	ug/kg
				1,2-Dichloroethane	U	6.7	6.66666667	ug/kg
				1,2-Dichloroethene (total)	U	6.7	6.66666667	ug/kg
				1,2-Dichloropropane	U	6.7	6.66666667	ug/kg
				2-Butanone (MEK)	U	27	26.6666667	ug/kg
				2-Hexanone	U	27	26.6666667	ug/kg
				4-methyl-2-pentanone (MIBK)	U	27	26.6666667	ug/kg
				Acetone	U	27	26.6666667	ug/kg
				Benzene	U	6.7	6.66666667	ug/kg
				Bromochloromethane	U	6.7	6.66666667	ug/kg
				Bromodichloromethane	U	6.7	6.66666667	ug/kg
				Bromoform	U	6.7	6.66666667	ug/kg
				Bromomethane (Methyl bromide)	U	6.7	6.66666667	ug/kg
				Carbon disulfide	U	6.7	6.66666667	ug/kg
				Carbon tetrachloride	U	6.7	6.66666667	ug/kg
				Chlorobenzene	U	6.7	6.66666667	ug/kg
				Chlorodibromomethane	U	6.7	6.66666667	ug/kg
				Chloroethane	U	6.7	6.66666667	ug/kg
				Chloroform	U	6.7	6.66666667	ug/kg
				Chloromethane	U	6.7	6.66666667	ug/kg
				cis-1,3-Dichloropropene	U	6.7	6.66666667	ug/kg
				Ethylbenzene	U	6.7	6.66666667	ug/kg
				Methylene chloride	U	6.7	6.66666667	ug/kg
				Styrene	U	6.7	6.66666667	ug/kg
				Tetrachloroethene	U	6.7	6.66666667	ug/kg
				trans-1,3-Dichloropropene	U	6.7	6.66666667	ug/kg
				Trichloroethene	U	6.7	6.66666667	ug/kg
				Vinyl chloride	U	6.7	6.66666667	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASS-016M-5037-SO	A0B180429014	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01011236	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.25280899	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25280899	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25280899	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25280899	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25280899	mg/kg
				2-Nitrotoluene	U	0.25	0.25280899	mg/kg
				3-Nitrotoluene	U	0.25	0.25280899	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25280899	mg/kg
				4-Nitrotoluene	U	0.50	0.50561798	mg/kg
				Nitrobenzene	U	0.25	0.25280899	mg/kg
ATASS-016M-6047-FD	A0B180429015	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01011236	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.25280899	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25280899	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25280899	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25280899	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25280899	mg/kg
				2-Nitrotoluene	U	0.25	0.25280899	mg/kg
				3-Nitrotoluene	U	0.25	0.25280899	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25280899	mg/kg
				4-Nitrotoluene	U	0.50	0.50561798	mg/kg
				Nitrobenzene	U	0.25	0.25280899	mg/kg
B12SS-033-5041-SO	A0B180429006	7196A	SO	Chromium, hexavalent	U	1.2	1.15942029	mg/kg
B12SS-034-5042-SO	A0B180429007	7196A	SO	Chromium, hexavalent	U	1.1	1.05263158	mg/kg
B12SS-036M-5038-SO	A0B180429001	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01009174	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.25229358	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25229358	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25229358	mg/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
B12SS-036M-5038-SO	A0B180429001	8330B	SO	2-Nitrotoluene	U	0.25	0.25229358	mg/kg
				3-Nitrotoluene	U	0.25	0.25229358	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				4-Nitrotoluene	U	0.50	0.50458716	mg/kg
				Nitrobenzene	U	0.25	0.25229358	mg/kg
B12SS-037M-5039-SO	A0B180429002	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01010204	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.25255102	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25255102	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25255102	mg/kg
				2-Nitrotoluene	U	0.25	0.25255102	mg/kg
				3-Nitrotoluene	U	0.25	0.25255102	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				4-Nitrotoluene	U	0.50	0.50510204	mg/kg
				Nitrobenzene	U	0.25	0.25255102	mg/kg
B12SS-037M-6049-FD	A0B180429003	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01010204	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.25255102	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25255102	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25255102	mg/kg
				2-Nitrotoluene	U	0.25	0.25255102	mg/kg
				3-Nitrotoluene	U	0.25	0.25255102	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25255102	mg/kg
				4-Nitrotoluene	U	0.50	0.50510204	mg/kg
				Nitrobenzene	U	0.25	0.25255102	mg/kg
B12SS-038M-5040-SO	A0B180429004	8081A	SO	4,4'-DDD	U	4.1	4.07747197	ug/kg
				4,4'-DDE	U	3.5	3.46585117	ug/kg
				4,4'-DDT	U	4.1	4.07747197	ug/kg
				Aldrin	U	8.2	8.15494393	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
B12SS-038M-5040-SO	A0B180429004	8081A	SO	alpha-BHC	U	5.1	5.09683996	ug/kg
				delta-BHC	U	8.2	8.15494393	ug/kg
				Dieldrin	U	3.5	3.46585117	ug/kg
				Endosulfan I	U	3.5	3.46585117	ug/kg
				Endosulfan II	U	5.1	5.09683996	ug/kg
				Endrin	U	3.5	3.46585117	ug/kg
				Endrin ketone	U	4.1	4.07747197	ug/kg
				gamma-BHC (Lindane)	U	5.1	5.09683996	ug/kg
				gamma-Chlordane	U	3.5	3.46585117	ug/kg
				Heptachlor epoxide	U	5.1	5.09683996	ug/kg
				Toxaphene	U	140	136.595311	ug/kg
		8082		Aroclor 1016	U	34	1.73292559	ug/kg
				Aroclor 1221	U	34	1.73292559	ug/kg
				Aroclor 1232	U	34	1.73292559	ug/kg
				Aroclor 1242	U	34	1.73292559	ug/kg
				Aroclor 1248	U	34	1.73292559	ug/kg
				Aroclor 1254	U	34	1.73292559	ug/kg
				Aroclor 1260	U	34	1.73292559	ug/kg
		8270C		1,2,4-Trichlorobenzene	U	340	336.391437	ug/kg
				1,2-Dichlorobenzene	U	340	336.391437	ug/kg
				1,3-Dichlorobenzene	U	340	336.391437	ug/kg
				1,4-Dichlorobenzene	U	340	336.391437	ug/kg
				2,4,5-Trichlorophenol	U	340	336.391437	ug/kg
				2,4,6-Trichlorophenol	U	340	336.391437	ug/kg
				2,4-Dichlorophenol	U	340	336.391437	ug/kg
				2,4-Dimethylphenol	U	340	336.391437	ug/kg
				2,4-Dinitrophenol	U	820	815.494393	ug/kg
				2,4-Dinitrotoluene	U	340	336.391437	ug/kg
				2,6-Dinitrotoluene	U	340	336.391437	ug/kg
				2-Chloronaphthalene	U	340	336.391437	ug/kg
				2-Chlorophenol	U	340	336.391437	ug/kg
				2-Methylphenol	U	340	336.391437	ug/kg
				2-Nitroaniline	U	820	815.494393	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
B12SS-038M-5040-SO	A0B180429004	8270C	SO	2-Nitrophenol	U	340	336.391437	ug/kg
				3,3'-Dichlorobenzidine	U	340	336.391437	ug/kg
				3-methylphenol/4-methylphenol	U	340	#Error	ug/kg
				3-Nitroaniline	U	820	815.494393	ug/kg
				4,6-Dinitro-2-methylphenol	U	820	815.494393	ug/kg
				4-Bromophenyl phenyl ether	U	340	336.391437	ug/kg
				4-Chloro-3-methylphenol	U	340	336.391437	ug/kg
				4-Chloroaniline	U	340	336.391437	ug/kg
				4-Chlorophenyl phenyl ether	U	340	336.391437	ug/kg
				4-Nitroaniline	U	820	815.494393	ug/kg
				4-Nitrophenol	U	820	815.494393	ug/kg
				Acenaphthene	U	51	50.9683996	ug/kg
				Acenaphthylene	U	51	50.9683996	ug/kg
				Anthracene	U	51	50.9683996	ug/kg
				Benz[a]anthracene	U	51	50.9683996	ug/kg
				Benzo[a]pyrene	U	51	50.9683996	ug/kg
				Benzo[g,h,i]perylene	U	51	50.9683996	ug/kg
				Benzo[k]fluoranthene	U	51	50.9683996	ug/kg
				Benzoic acid	U	820	815.494393	ug/kg
				bis(2-Chloroethoxy)methane	U	340	336.391437	ug/kg
				bis(2-Chloroethyl) ether	U	340	336.391437	ug/kg
				Bis(2-chloroisopropyl) ether	U	340	336.391437	ug/kg
				Butyl benzyl phthalate	U	340	336.391437	ug/kg
				Carbazole	U	51	50.9683996	ug/kg
				dibenz[a,h]anthracene	U	51	50.9683996	ug/kg
				Dibenzofuran	U	340	336.391437	ug/kg
				Diethyl phthalate	U	340	336.391437	ug/kg
				Dimethyl phthalate	U	340	336.391437	ug/kg
				Di-n-butyl phthalate	U	340	336.391437	ug/kg
				Di-n-octyl phthalate	U	340	336.391437	ug/kg
				Fluorene	U	51	50.9683996	ug/kg
				Hexachlorobenzene	U	340	336.391437	ug/kg
				Hexachlorobutadiene	U	340	336.391437	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
B12SS-038M-5040-SO	A0B180429004	8270C	SO	HEXACHLOROCYCLOPENTADIE	U	340	#Error	ug/kg
				Hexachloroethane	U	340	336.391437	ug/kg
				Indeno[1,2,3-cd]pyrene	U	51	50.9683996	ug/kg
				Isophorone	U	340	336.391437	ug/kg
				Nitrobenzene	U	340	336.391437	ug/kg
				N-Nitrosodi-n-propylamine	U	340	336.391437	ug/kg
				N-Nitrosodiphenylamine	U	340	336.391437	ug/kg
				Pentachlorophenol	U	340	336.391437	ug/kg
				Phenol	U	340	336.391437	ug/kg
		8330B		1,3,5-Trinitrobenzene	U	0.25	0.01009174	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.25229358	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.25229358	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.25229358	mg/kg
				2-Nitrotoluene	U	0.25	0.25229358	mg/kg
				3-Nitrotoluene	U	0.25	0.25229358	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.25229358	mg/kg
				4-Nitrotoluene	U	0.50	0.50458716	mg/kg
				Nitrobenzene	U	0.25	0.25229358	mg/kg
B12SS-038M-5040-SO(V	A0B180429005	8260B	SO	1,1,1-Trichloroethane	U	7.2	7.14285714	ug/kg
				1,1,2,2-Tetrachloroethane	U	7.2	7.14285714	ug/kg
				1,1,2-Trichloroethane	U	7.2	7.14285714	ug/kg
				1,1-Dichloroethane	U	7.2	7.14285714	ug/kg
				1,1-Dichloroethene	U	7.2	7.14285714	ug/kg
				1,2-Dibromoethane (Ethylene Dibro	U	7.2	7.14285714	ug/kg
				1,2-Dichloroethane	U	7.2	7.14285714	ug/kg
				1,2-Dichloroethene (total)	U	7.2	7.14285714	ug/kg
				1,2-Dichloropropane	U	7.2	7.14285714	ug/kg
				2-Hexanone	U	29	28.5714286	ug/kg
				4-methyl-2-pentanone (MIBK)	U	29	28.5714286	ug/kg
				Benzene	U	7.2	7.14285714	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
B12SS-038M-5040-SO(V	A0B180429005	8260B	SO	Bromochloromethane	U	7.2	7.14285714	ug/kg
				Bromodichloromethane	U	7.2	7.14285714	ug/kg
				Bromoform	U	7.2	7.14285714	ug/kg
				Bromomethane (Methyl bromide)	U	7.2	7.14285714	ug/kg
				Carbon disulfide	U	7.2	7.14285714	ug/kg
				Carbon tetrachloride	U	7.2	7.14285714	ug/kg
				Chlorobenzene	U	7.2	7.14285714	ug/kg
				Chlorodibromomethane	U	7.2	7.14285714	ug/kg
				Chloroethane	U	7.2	7.14285714	ug/kg
				Chloroform	U	7.2	7.14285714	ug/kg
				Chloromethane	U	7.2	7.14285714	ug/kg
				cis-1,3-Dichloropropene	U	7.2	7.14285714	ug/kg
				Ethylbenzene	U	7.2	7.14285714	ug/kg
				Methylene chloride	U	7.2	7.14285714	ug/kg
				Styrene	U	7.2	7.14285714	ug/kg
				Tetrachloroethene	U	7.2	7.14285714	ug/kg
				trans-1,3-Dichloropropene	U	7.2	7.14285714	ug/kg
				Trichloroethene	U	7.2	7.14285714	ug/kg
				Vinyl chloride	U	7.2	7.14285714	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

Continuing Calibration (CCV) Outlier Report (Organics)

There are no Organic Continuing Calibrations with outliers

Continuing Calibration (CCAL) Outlier Report (Inorganics)

There are no Inorganic Continuing Calibrations with outliers

Reporting Limits Outlier Report (detected results reported below the reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	EDD Reporting Limit	Units
ATASS-015M-5036-SO	A0B180429012	353.2 Modified	SO	Nitrocellulose	B J	2.4	5.1	mg/kg
		6020		Antimony	J	0.14	0.51	mg/kg
				Cadmium	J	0.10	0.20	mg/kg
				Silver	J	0.026	0.51	mg/kg
				Sodium	J	49.8	102	mg/kg
				Thallium	J	0.18	0.20	mg/kg
		7471A		Mercury	J	0.038	0.10	mg/kg
		8270C		2-Methylnaphthalene	J	9.2	340	ug/kg
				bis(2-Ethylhexyl) phthalate	J	69	340	ug/kg
				Naphthalene	J	12	51	ug/kg
ATASS-015M-5036-SO(V	A0B180429013	8260B		Toluene	J B	0.38	6.7	ug/kg
ATASS-016M-5037-SO	A0B180429014	6020		Antimony	J	0.11	0.51	mg/kg
				Cadmium	J	0.16	0.20	mg/kg
				Silver	J	0.043	0.51	mg/kg
				Sodium	J	31.4	102	mg/kg
				Thallium	J	0.18	0.20	mg/kg
		7471A		Mercury	J	0.062	0.10	mg/kg
ATASS-016M-6047-FD	A0B180429015	6020		Antimony	J	0.11	0.51	mg/kg
				Cadmium	J	0.16	0.20	mg/kg
				Silver	J	0.041	0.51	mg/kg
				Sodium	J	32.5	102	mg/kg
				Thallium	J	0.17	0.20	mg/kg
		7471A		Mercury	J	0.049	0.10	mg/kg
		8330B		PETN	J	0.11	0.50	mg/kg
B12SS-035-5043-SO	A0B180429008	7196A		Chromium, hexavalent	J	0.39	1.0	mg/kg
B12SS-036M-5038-SO	A0B180429001	6020		Antimony	J	0.14	0.51	mg/kg
				Cadmium	J	0.12	0.20	mg/kg
				Silver	J	0.041	0.51	mg/kg
				Sodium	J	32.3	102	mg/kg
		7471A		Mercury	J	0.048	0.10	mg/kg
B12SS-037M-5039-SO	A0B180429002	6020		Antimony	J	0.11	0.51	mg/kg
				Cadmium	J	0.093	0.20	mg/kg
				Silver	J	0.037	0.51	mg/kg
				Sodium	J	35.6	102	mg/kg
				Thallium	J	0.18	0.20	mg/kg
		7471A		Mercury	J	0.044	0.10	mg/kg

Reporting Limits Outlier Report (detected results reported below the reporting limit)

Lab Report Batch: A0B180429 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	EDD Reporting Limit	Units
B12SS-037M-5039-SO	A0B180429002	8270C	SO	Benzo[b]fluoranthene	J	6.5	6.8	ug/kg
B12SS-037M-6049-FD	A0B180429003	6020		Antimony	J	0.10	0.51	mg/kg
				Cadmium	J	0.085	0.20	mg/kg
				Silver	J	0.034	0.51	mg/kg
				Sodium	J	42.1	102	mg/kg
				Thallium	J	0.18	0.20	mg/kg
		7471A		Mercury	J	0.047	0.10	mg/kg
B12SS-038M-5040-SO	A0B180429004	353.2 Modified		Nitrocellulose	B J	0.87	5.1	mg/kg
		6020		Antimony	J	0.11	0.51	mg/kg
				Cadmium	J	0.13	0.20	mg/kg
				Silver	J	0.037	0.51	mg/kg
				Sodium	J	39.5	102	mg/kg
				Thallium	J	0.18	0.20	mg/kg
		7471A		Mercury	J	0.055	0.10	mg/kg
		8270C		2-Methylnaphthalene	J	10	340	ug/kg
				Benzo[b]fluoranthene	J	11	51	ug/kg
				Benzyl alcohol	J	30	340	ug/kg
				bis(2-Ethylhexyl) phthalate	J	37	340	ug/kg
				Chrysene	J	7.3	51	ug/kg
				Fluoranthene	J	13	51	ug/kg
				Naphthalene	J	14	51	ug/kg
				Phenanthrene	J	8.1	51	ug/kg
				Pyrene	J	8.3	51	ug/kg
		8330B		Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetr	J PG	0.012	0.25	mg/kg
B12SS-038M-5040-SO(V	A0B180429005	8260B		2-Butanone (MEK)	J B	3.5	29	ug/kg
				Acetone	J B	18	29	ug/kg
				Toluene	J	0.46	7.2	ug/kg

Method Blank Outlier Report

Lab Reporting Batch : A0B180429
Lab ID: TALCAN
Analysis Method : 6020
Analysis Date : 02/25/2010
Preparation Type : 3050B
Preparation Date : 02/24/2010
Method Blank Lab Sample ID : A0B220000030B
Preparation Batch : 0053030

Manganese	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**1.2**	**1.0**	**mg/kg**		

Manganese contamination found in the method blank did not qualify any samples.

Potassium	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**4.2**	**100**	**mg/kg**	**J**	

Potassium contamination found in the method blank did not qualify any samples.

Method Blank Outlier Report

Lab Reporting Batch : A0B180429
Lab ID: TALCAN
Analysis Method : 353.2 Modified
Analysis Date : 03/01/2010
Preparation Type : Gen Prep
Preparation Date : 02/25/2010
Method Blank Lab Sample ID : G0B250000149B
Preparation Batch : 0056149

Nitrocellulose	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**0.80**	**5.0**	**mg/kg**	**B**	

Nitrocellulose was qualified due to method blank contamination in the following associated samples:

Client Sample ID	Lab Sample ID	Dilution	Result	Lab Qual	Result Units
ATASS-015M-5036-SO	A0B180429012	1	2.4	B J	mg/kg
B12SS-038M-5040-SO	A0B180429004	1	0.87	B J	mg/kg

Method Blank Outlier Report

Lab Reporting Batch : A0B180429
Lab ID: TALCAN
Analysis Method : 8260B
Analysis Date : 02/25/2010
Preparation Type : 5030B
Preparation Date : 02/25/2010
Method Blank Lab Sample ID : A0B260000113B
Preparation Batch : 0057113

2-Butanone (MEK)	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	3.8	20	ug/kg	J	Common Contaminant

2-Butanone (MEK) contamination found in the method blank did not qualify any samples.

2-Hexanone	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	1.6	20	ug/kg	J	

2-Hexanone contamination found in the method blank did not qualify any samples.

Acetone	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	15	20	ug/kg	J	Common Contaminant

Acetone contamination found in the method blank did not qualify any samples.

Toluene	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	0.39	5.0	ug/kg	J	

Toluene was qualified due to method blank contamination in the following associated samples:

Client Sample ID	Lab Sample ID	Dilution	Result	Lab Qual	Result Units
ATASS-015M-5036-SO(VOC	A0B180429013	1	0.38	J B	ug/kg

Method Blank Outlier Report

Lab Reporting Batch : A0B180429 **Lab ID:** TALCAN

Analysis Method : 8260B **Analysis Date :** 02/26/2010

Preparation Type : 5030B **Preparation Date :** 02/26/2010

Method Blank Lab Sample ID : A0C010000098B **Preparation Batch :** 0060098

2-Butanone (MEK)	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**3.4**	**20**	**ug/kg**	**J**	**Common Contaminant**

2-Butanone (MEK) was qualified due to method blank contamination in the following associated samples:

Client Sample ID	Lab Sample ID	Dilution	Result	Lab Qual	Result Units
B12SS-038M-5040-SO(VOC)	A0B180429005	1	3.5	J B	ug/kg

2-Hexanone	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**1.7**	**20**	**ug/kg**	**J**	

2-Hexanone contamination found in the method blank did not qualify any samples.

Acetone	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**11**	**20**	**ug/kg**	**J**	**Common Contaminant**

Acetone was qualified due to method blank contamination in the following associated samples:

Client Sample ID	Lab Sample ID	Dilution	Result	Lab Qual	Result Units
B12SS-038M-5040-SO(VOC)	A0B180429005	1	18	J B	ug/kg

QC Outlier Report: Field Duplicates (Non-qualified Outliers)

Lab Report Batch: **Lab ID:**

			Field Sample				Field Sample Duplicate						
Analysis Method	Matrix	Analyte Name	Client Sample ID	Ana Type	Result	Lab Qualifier	Client Sample Duplicate ID	Ana Type	Result	Lab Qualifiers	RPD Dup* (%)	RPD Criteria (%)	Result Units

Note: Outlier report also includes analytes detected in one sample but not in the related sample, i.e., analyte was detected in the field sample but not in the field duplicate sample, or vice versa. In this case, RPD value assigned to the field duplicate sample is 200.

Project Number and Name: ***172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI***

QC Outlier Report: Temperature (Non-qualified Outliers)

Lab Report Batch: A0C050520 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Sample Temperature (C)	Criteria	
					Lower Limit	Upper Limit
LL6SB-069-5222-SO	A0C050520002	353.2 Modified	SO	1.5	2.0	6.0
		8081A	SO	1.5	2.0	
LL6SB-069-5222-SOMS	A0C050520002S	8081A	SO	1.5	2.0	
LL6SB-069-5222-SOMSD	A0C050520002D	8081A	SO	1.5	2.0	
LL6SB-069-5222-SO	A0C050520002	8082	SO	1.5	2.0	
LL6SB-069-5222-SOMS	A0C050520002S	8082	SO	1.5	2.0	
LL6SB-069-5222-SOMSD	A0C050520002D	8082	SO	1.5	2.0	
LL6SB-069-5222-SO	A0C050520002	8260B	SO	1.5	2.0	
LL6SB-069-5222-SOMS	A0C050520002S	8260B	SO	1.5	2.0	
LL6SB-069-5222-SOMSD	A0C050520002D	8260B	SO	1.5	2.0	
LL6SB-069-5222-SO	A0C050520002	8270C	SO	1.5	2.0	
ATASB-006-5130-SO	A0C050520001	8330B	SO	1.5	2.0	
LL6SB-069-5222-SO	A0C050520002	8330B	SO	1.5	2.0	
		8330M	SO	1.5	2.0	
LL6SB-069-5222-SOMS	A0C050520002S	8330M	SO	1.5	2.0	
LL6SB-069-5222-SOMSD	A0C050520002D	8330M	SO	1.5	2.0	

Temperature Outlier Report

Lab Report Batch: **Lab ID:**

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Sample Temp (C)	Temperature Criteria (C)			Between High and Gross Exceedence			Above Gross Exceedence		
								Detect Quals		Non-Detect Qual(s)	Detect Quals		Non-Detect Qual(s)
					Low	High	Gross Exceed	Non-Biased	Biased		Non-Biased	Biased	

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : 0067386 **Analysis Method :** 8260B **Analysis Date :** 03/06/2010

Preparation Batch : 0067386 **Preparation Type :** 5030B **Preparation Date :** 03/06/2010

Lab Reporting Batch : A0C050520 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
LL6SB-069-5222-SOMS	A0C050520002S	SO	1,2-Dibromoethane (Ethylene Dibro	63		0.00	70.00	125.00	30.00
			Benzene	74		0.00	75.00	125.00	30.00
			Chlorobenzene	57		0.00	75.00	125.00	30.00
			cis-1,3-Dichloropropene	56		0.00	70.00	125.00	40.00
			Ethylbenzene	60		0.00	75.00	125.00	30.00
			o-Xylene	62		0.00	75.00	125.00	30.00
			Styrene	51		0.00	75.00	125.00	30.00
			Toluene	63		0.00	70.00	125.00	30.00
			trans-1,3-Dichloropropene	58		0.00	65.00	125.00	31.00
			Trichloroethene	62		0.00	75.00	125.00	30.00
LL6SB-069-5222-SOMS	A0C050520002D		Chlorobenzene	73		0.00	75.00	125.00	30.00
			Styrene	71	32	0.00	75.00	125.00	30.00

Associated Samples: Parent sample only

Client Sample ID	Lab Sample ID
LL6SB-069-5222-SO	A0C050520002

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

Project Number and Name: 172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI

Laboratory Control Sample / Laboratory Control Sample Duplicate Outlier Report

Method Batch : 0067386 **Analysis Method :** 8260B **Analysis Date :** 03/05/2010

Preparation Batch : 0067386 **Preparation Type :** 5030B **Preparation Date :** 03/05/2010

Lab Reporting Batch : A0C050520 **Lab ID:** TALCAN

			Reported Values		Project Limits (Percent)			
LCS Lab Sample ID	**Matrix**	**Analyte Name**	**Percent Recovery**	**RPD**	**Rejection Point**	**Lower Limit**	**Upper Limit**	**RPD**
A0C080000386L	SO	1,1,2,2-Tetrachloroethane	72	39	10.00	55.00	130.00	30.00

Associated Samples

Client Sample ID	**Lab Sample ID**
LL6SB-069-5222-SO	A0C050520002

Scope of Data Qualification: The outlier in the LCS qualifies that analyte in all samples with the same Preparation Batch ID as the LCS

Project Number and Name: 172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0C050520 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-006-5130-SO	A0C050520001	7471A	SO	Mercury	U	0.13	0.12658228	mg/kg
		8330B		1,3,5-Trinitrobenzene	U	0.24	0.01202532	mg/kg
				1,3-Dinitrobenzene	U	0.24	0.30063291	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.24	0.30063291	mg/kg
				2,4-Dinitrotoluene	U	0.24	0.30063291	mg/kg
				2,6-Dinitrotoluene	U	0.24	0.30063291	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.24	0.30063291	mg/kg
				2-Nitrotoluene	U	0.24	0.30063291	mg/kg
				3-Nitrotoluene	U	0.24	0.30063291	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.24	0.30063291	mg/kg
				4-Nitrotoluene	U	0.48	0.60126582	mg/kg
				Nitrobenzene	U	0.24	0.30063291	mg/kg
LL6SB-069-5222-SO	A0C050520002	353.2 Modified	SO	Nitrocellulose	U	6.1	6.09756098	mg/kg
		6020		Antimony	U	0.61	0.6097561	mg/kg
		8081A		Methoxychlor	U	31	30.4878049	ug/kg
				Toxaphene	U	410	408.536585	ug/kg
		8260B		1,1,1-Trichloroethane	U	6.1	6.09756098	ug/kg
				1,1,2,2-Tetrachloroethane	U	6.1	6.09756098	ug/kg
				1,1,2-Trichloroethane	U	6.1	6.09756098	ug/kg
				1,1-Dichloroethane	U	6.1	6.09756098	ug/kg
				1,1-Dichloroethene	U	6.1	6.09756098	ug/kg
				1,2-Dibromoethane (Ethylene Dibro	U	6.1	6.09756098	ug/kg
				1,2-Dichloroethane	U	6.1	6.09756098	ug/kg
				1,2-Dichloroethene (total)	U	6.1	6.09756098	ug/kg
				1,2-Dichloropropane	U	6.1	6.09756098	ug/kg
				Benzene	U	6.1	6.09756098	ug/kg
				Bromochloromethane	U	6.1	6.09756098	ug/kg
				Bromodichloromethane	U	6.1	6.09756098	ug/kg
				Bromoform	U	6.1	6.09756098	ug/kg
				Bromomethane (Methyl bromide)	U	6.1	6.09756098	ug/kg
				Carbon disulfide	U	6.1	6.09756098	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0C050520 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
LL6SB-069-5222-SO	A0C050520002	8260B	SO	Carbon tetrachloride	U	6.1	6.09756098	ug/kg
				Chlorobenzene	U	6.1	6.09756098	ug/kg
				Chlorodibromomethane	U	6.1	6.09756098	ug/kg
				Chloroethane	U	6.1	6.09756098	ug/kg
				Chloroform	U	6.1	6.09756098	ug/kg
				Chloromethane	U	6.1	6.09756098	ug/kg
				cis-1,3-Dichloropropene	U	6.1	6.09756098	ug/kg
				Ethylbenzene	U	6.1	6.09756098	ug/kg
				Styrene	U	6.1	6.09756098	ug/kg
				Tetrachloroethene	U	6.1	6.09756098	ug/kg
				Toluene	U	6.1	6.09756098	ug/kg
				trans-1,3-Dichloropropene	U	6.1	6.09756098	ug/kg
				Trichloroethene	U	6.1	6.09756098	ug/kg
				Vinyl chloride	U	6.1	6.09756098	ug/kg
		8270C		2,4-Dinitrophenol	U	980	975.609756	ug/kg
				2-Nitroaniline	U	980	975.609756	ug/kg
				3-Nitroaniline	U	980	975.609756	ug/kg
				4,6-Dinitro-2-methylphenol	U	980	975.609756	ug/kg
				4-Nitroaniline	U	980	975.609756	ug/kg
				4-Nitrophenol	U	980	975.609756	ug/kg
				Acenaphthene	U	61	60.9756098	ug/kg
				Acenaphthylene	U	61	60.9756098	ug/kg
				Anthracene	U	61	60.9756098	ug/kg
				Benz[a]anthracene	U	61	60.9756098	ug/kg
				Benzo[a]pyrene	U	61	60.9756098	ug/kg
				Benzo[b]fluoranthene	U	61	60.9756098	ug/kg
				Benzo[g,h,i]perylene	U	61	60.9756098	ug/kg
				Benzo[k]fluoranthene	U	61	60.9756098	ug/kg
				Benzoic acid	U	980	975.609756	ug/kg
				Carbazole	U	61	60.9756098	ug/kg
				Chrysene	U	61	60.9756098	ug/kg
				dibenz[a,h]anthracene	U	61	60.9756098	ug/kg
				Fluoranthene	U	61	60.9756098	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0C050520 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
LL6SB-069-5222-SO	A0C050520002	8270C	SO	Fluorene	U	61	60.9756098	ug/kg
				Indeno[1,2,3-cd]pyrene	U	61	60.9756098	ug/kg
				Naphthalene	U	61	60.9756098	ug/kg
				Phenanthrene	U	61	60.9756098	ug/kg
				Pyrene	U	61	402.439024	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

Reporting Limits Outlier Report (detected results reported below the reporting limit)

Lab Report Batch: A0C050520 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	EDD Reporting Limit	Units
ATASB-006-5130-SO	A0C050520001	6020	SO	Antimony	J	0.089	0.63	mg/kg
				Cadmium	J	0.086	0.25	mg/kg
				Selenium	J	0.58	0.63	mg/kg
				Silver	J	0.018	0.63	mg/kg
				Sodium	J	42.7	126	mg/kg
				Thallium	J	0.13	0.25	mg/kg
LL6SB-069-5222-SO	A0C050520002			Cadmium	J	0.042	0.24	mg/kg
				Silver	J	0.018	0.61	mg/kg
				Sodium	J	45.7	122	mg/kg
				Thallium	J	0.11	0.24	mg/kg
		8260B		Acetone	J	11	24	ug/kg

Method Blank Outlier Report

Lab Reporting Batch : A0C050520
Lab ID: TALCAN
Analysis Method : 8260B
Analysis Date : 03/05/2010
Preparation Type : 5030B
Preparation Date : 03/05/2010
Method Blank Lab Sample ID : A0C080000386B
Preparation Batch : 0067386

2-Butanone (MEK)	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**2.2**	**20**	**ug/kg**	**J**	**Common Contaminant**

2-Butanone (MEK) contamination found in the method blank did not qualify any samples.

2-Hexanone	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**1.7**	**20**	**ug/kg**	**J**	

2-Hexanone contamination found in the method blank did not qualify any samples.

Methylene chloride	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**1.4**	**5.0**	**ug/kg**	**J**	**Common Contaminant**

Methylene chloride was qualified due to method blank contamination in the following associated samples:

Client Sample ID	Lab Sample ID	Dilution	Result	Lab Qual	Result Units
LL6SB-069-5222-SO	A0C050520002	1	6.8	B	ug/kg

Method Blank Outlier Report

Lab Reporting Batch : A0C050520 **Lab ID:** TALCAN

Analysis Method : 353.2 Modified **Analysis Date :** 03/11/2010

Preparation Type : Gen Prep **Preparation Date :** 03/09/2010

Method Blank Lab Sample ID : G0C090000158B **Preparation Batch :** 0068158

Nitrocellulose	Result	Reporting Limit	Units	Lab Qual	Comments
Method Blank Result:	**0.82**	**5.0**	**mg/kg**	**B**	

Nitrocellulose contamination found in the method blank did not qualify any samples.

Surrogate Recovery Outlier Report

Lab Report Batch: A0C050520 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Dilution	Matrix	Surrogate	Percent Recovery	Criteria (percent) Lower Limit	Upper Limit	Reject Point	Associated Target Analytes
LL6SB-069-5222-SO	A0C050520002	8260B	1	SO	4-Bromofluorobenzene	74	85.0	120.0	10.0	All Target
LL6SB-069-5222-SOMS	A0C050520002S	8260B	1	SO	4-Bromofluorobenzene	80	85.0	120.0	10.0	All Target

QC Outlier Report: Temperature (Non-qualified Outliers)

Lab Report Batch: A0B250493 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Sample Temperature (C)	Criteria	
					Lower Limit	Upper Limit
ATASB-008-5135-SO	A0B250493002	353.2 Modified	SO	1.2	2.0	6.0
ATASB-008-5135-SOMS	A0B250493002S	353.2 Modified	SO	1.2	2.0	6.0
ATASB-008-5135-SOMSD	A0B250493002D	353.2 Modified	SO	1.2	2.0	6.0
ATASB-006-5129-SO	A0B250493001	8330B	SO	1.2	2.0	
ATASB-006-5129-SOMS	A0B250493001S	8330B	SO	1.2	2.0	
ATASB-006-5129-SOMSD	A0B250493001D	8330B	SO	1.2	2.0	
ATASB-008-5135-SO	A0B250493002	8330B	SO	1.2	2.0	
ATASB-009-5139-SO	A0B250493003	8330B	SO	1.2	2.0	
ATASB-010-5143-SO	A0B250493004	8330B	SO	1.2	2.0	
ATASB-011-5147-SO	A0B250493005	8330B	SO	1.2	2.0	
ATASB-008-5135-SO	A0B250493002	8330M	SO	1.2	2.0	
ATASB-008-5135-SOMS	A0B250493002S	8330M	SO	1.2	2.0	
ATASB-008-5135-SOMSD	A0B250493002D	8330M	SO	1.2	2.0	

Temperature Outlier Report

Lab Report Batch: **Lab ID:**

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Sample Temp (C)	Temperature Criteria (C)			Between High and Gross Exceedence			Above Gross Exceedence		
								Detect Quals		Non-Detect Qual(s)	Detect Quals		Non-Detect Qual(s)
					Low	High	Gross Exceed	Non-Biased	Biased		Non-Biased	Biased	

QC Outlier Report: Non-Qualified Outliers for Reporting Limits
(Sample is non-detect but reported result exceeds project requirements for reporting limit)

Lab Report Batch: A0B250493 **Lab ID:** TALCAN

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
ATASB-010-5143-SO	A0B250493004	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01164706	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.29117647	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.29117647	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.29117647	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.29117647	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.29117647	mg/kg
				2-Nitrotoluene	U	0.25	0.29117647	mg/kg
				3-Nitrotoluene	U	0.25	0.29117647	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.29117647	mg/kg
				4-Nitrotoluene	U	0.50	0.58235294	mg/kg
				Nitrobenzene	U	0.25	0.29117647	mg/kg
ATASB-011-5147-SO	A0B250493005	8330B	SO	1,3,5-Trinitrobenzene	U	0.25	0.01151163	mg/kg
				1,3-Dinitrobenzene	U	0.25	0.2877907	mg/kg
				2,4,6-Trinitrotoluene (TNT)	U	0.25	0.2877907	mg/kg
				2,4-Dinitrotoluene	U	0.25	0.2877907	mg/kg
				2,6-Dinitrotoluene	U	0.25	0.2877907	mg/kg
				2-Amino-4,6-dinitrotoluene	U	0.25	0.2877907	mg/kg
				2-Nitrotoluene	U	0.25	0.2877907	mg/kg
				3-Nitrotoluene	U	0.25	0.2877907	mg/kg
				4-Amino-2,6-Dinitrotoluene	U	0.25	0.2877907	mg/kg
				4-Nitrotoluene	U	0.50	0.5755814	mg/kg
				Nitrobenzene	U	0.25	0.2877907	mg/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: **172819.00.09456.00.9200.02.200 - RVAAP PBA2008 17 AOCs RI**

APPENDIX D

Laboratory Analytical Results

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PBA08 RI Sample Results Tables

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LIST OF TABLES

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Table D-1. Results for Explosives and Propellants Measured in Discrete Soil Samples at Anchor Test Area

Station		ATAsb-006	ATAsb-006	ATAsb-006	ATAsb-006	ATAsb-006
Sample Id		ATAsb-006-6080-FD	ATAsb-006-5127-SO	ATAsb-006-5128-SO	ATAsb-006-5129-SO	ATAsb-006-5130-SO
Date		02/24/10	02/24/10	02/24/10	02/24/10	02/24/10
Depth (ft)		0.0 - 1.0	0.0 - 1.0	1.0 - 4.0	4.0 - 7.0	7.0 - 13.0
Sample Type	CAS Number	FD	GR	GR	GR	GR
Analyte (mg/kg)						
1,3,5-Trinitrobenzene	99-35-4	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
1,3-Dinitrobenzene	99-65-0	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
2,4,6-Trinitrotoluene	118-96-7	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
2,4-Dinitrotoluene	121-14-2	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
2,6-Dinitrotoluene	606-20-2	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
2-Nitrotoluene	88-72-2	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
3-Nitrotoluene	99-08-1	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
4-Nitrotoluene	99-99-0	<0.5 U	<0.5 U	<0.5 U	<0.49 U	<0.48 U
HMX	2691-41-0	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
Nitrobenzene	98-95-3	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
Nitrocellulose	9004-70-0	NR	NR	NR	NR	NR
Nitroglycerin	55-63-0	<0.5 U	<0.5 U	<0.5 U	<0.49 U	<0.48 U
Nitroguanidine	556-88-7	NR	NR	NR	NR	NR
PETN	78-11-5	<0.5 U	<0.5 U	<0.5 U	<0.49 U	<0.48 U
RDX	121-82-4	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U
Tetryl	479-45-8	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.24 U

Table D-1. Results for Explosives and Propellants Measured in Discrete Soil Samples at Anchor Test Area (continued)

Station		ATAsb-008	ATAsb-008	ATAsb-008	ATAsb-009	ATAsb-009
Sample Id		ATAsb-008-5133-SO	ATAsb-008-5134-SO	ATAsb-008-5135-SO	ATAsb-009-5137-SO	ATAsb-009-5138-SO
Date		02/24/10	02/24/10	02/24/10	02/24/10	02/24/10
Depth (ft)		0.0 - 1.0	1.0 - 4.0	4.0 - 7.0	0.0 - 1.0	1.0 - 4.0
Sample Type	CAS Number	GR	GR	GR	GR	GR
Analyte (mg/kg)						
1,3,5-Trinitrobenzene	99-35-4	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,3-Dinitrobenzene	99-65-0	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
2,4,6-Trinitrotoluene	118-96-7	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
2,4-Dinitrotoluene	121-14-2	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
2,6-Dinitrotoluene	606-20-2	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
2-Nitrotoluene	88-72-2	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
3-Nitrotoluene	99-08-1	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
4-Nitrotoluene	99-99-0	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
HMX	2691-41-0	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
Nitrobenzene	98-95-3	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
Nitrocellulose	9004-70-0	0.97 J	<5.3 U	<5.3 U	NR	NR
Nitroglycerin	55-63-0	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Nitroguanidine	556-88-7	<0.25 U	<0.25 U	<0.25 U	NR	NR
PETN	78-11-5	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
RDX	121-82-4	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
Tetryl	479-45-8	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U

Table D-1. Results for Explosives and Propellants Measured in Discrete Soil Samples at Anchor Test Area (continued)

Station		ATAsb-009	ATAsb-009	ATAsb-010	ATAsb-010	ATAsb-010
Sample Id		ATAsb-009-6081-FD	ATAsb-009-5139-SO	ATAsb-010-5141-SO	ATAsb-010-5142-SO	ATAsb-010-5143-SO
Date		02/24/10	02/24/10	02/24/10	02/24/10	02/24/10
Depth (ft)		4.0 - 7.0	4.0 - 7.0	0.0 - 1.0	1.0 - 4.0	4.0 - 7.0
Sample Type	CAS Number	FD	GR	GR	GR	GR
Analyte (mg/kg)						
1,3,5-Trinitrobenzene	99-35-4	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
1,3-Dinitrobenzene	99-65-0	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
2,4,6-Trinitrotoluene	118-96-7	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
2,4-Dinitrotoluene	121-14-2	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
2,6-Dinitrotoluene	606-20-2	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
2-Nitrotoluene	88-72-2	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
3-Nitrotoluene	99-08-1	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	<0.25 U	<0.24 U	<0.25 UJ	<0.25 U	<0.25 U
4-Nitrotoluene	99-99-0	<0.5 U	<0.49 U	<0.5 U	<0.5 U	<0.5 U
HMX	2691-41-0	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
Nitrobenzene	98-95-3	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
Nitrocellulose	9004-70-0	NR	NR	NR	NR	NR
Nitroglycerin	55-63-0	<0.5 U	<0.49 U	<0.5 U	<0.5 U	<0.5 U
Nitroguanidine	556-88-7	NR	NR	NR	NR	NR
PETN	78-11-5	<0.5 U	<0.49 U	<0.5 U	<0.5 U	<0.5 U
RDX	121-82-4	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U
Tetryl	479-45-8	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U

Table D-1. Results for Explosives and Propellants Measured in Discrete Soil Samples at Anchor Test Area (continued)

Station		ATAsb-011	ATAsb-011	ATAsb-011
Sample Id		ATAsb-011-5145-SO	ATAsb-011-5146-SO	ATAsb-011-5147-SO
Date		02/24/10	02/24/10	02/24/10
Depth (ft)		0.0 - 1.0	1.0 - 4.0	4.0 - 7.0
Sample Type	CAS Number	GR	GR	GR
Analyte (mg/kg)				
1,3,5-Trinitrobenzene	99-35-4	<0.25 U	<0.25 U	<0.25 U
1,3-Dinitrobenzene	99-65-0	<0.25 U	<0.25 U	<0.25 U
2,4,6-Trinitrotoluene	118-96-7	<0.25 U	<0.25 U	<0.25 U
2,4-Dinitrotoluene	121-14-2	<0.25 U	<0.25 U	<0.25 U
2,6-Dinitrotoluene	606-20-2	<0.25 U	<0.25 U	<0.25 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	<0.25 U	<0.25 U	<0.25 U
2-Nitrotoluene	88-72-2	<0.25 U	<0.25 U	<0.25 U
3-Nitrotoluene	99-08-1	<0.25 U	<0.25 U	<0.25 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	<0.25 U	<0.25 U	<0.25 U
4-Nitrotoluene	99-99-0	<0.5 U	<0.5 U	<0.5 U
HMX	2691-41-0	<0.25 U	<0.25 U	<0.25 U
Nitrobenzene	98-95-3	<0.25 U	<0.25 U	<0.25 U
Nitrocellulose	9004-70-0	NR	NR	NR
Nitroglycerin	55-63-0	<0.5 U	<0.5 U	<0.5 U
Nitroguanidine	556-88-7	NR	NR	NR
PETN	78-11-5	<0.5 U	<0.5 U	<0.5 U
RDX	121-82-4	<0.25 U	<0.25 U	<0.25 U
Tetryl	479-45-8	<0.25 U	<0.25 U	<0.25 U

Sample Type: FD=Field Duplicate; GR=Grab.

Data Qualifiers: J=estimated; U=not detected; UJ=not detected and reporting limit estimated.

All samples were collected during the implementation of the PBA08 RI SAP.

CAS=Chemical Abstract Service

NR=not reported

Table D-2. Results for Explosives and Propellants Measured in Incremental Sampling Methodology Soil Samples at Anchor Test Area

Station		ATAss-015M	ATAss-016M	ATAss-016M
Sample Id		ATAss-015M-5036-SO	ATAss-016M-6047-FD	ATAss-016M-5037-SO
Date		02/17/10	02/17/10	02/17/10
Depth (ft)		0.0 - 1.0	0.0 - 1.0	0.0 - 1.0
Sample Type	CAS Number	MI	MD	MI
Analyte (mg/kg)				
1,3,5-Trinitrobenzene	99-35-4	<0.25 U	<0.25 U	<0.25 U
1,3-Dinitrobenzene	99-65-0	<0.25 U	<0.25 U	<0.25 U
2,4,6-Trinitrotoluene	118-96-7	<0.25 U	<0.25 U	<0.25 U
2,4-Dinitrotoluene	121-14-2	<0.25 U	<0.25 U	<0.25 U
2,6-Dinitrotoluene	606-20-2	<0.25 U	<0.25 U	<0.25 U
2-Amino-4,6-Dinitrotoluene	35572-78-2	<0.25 U	<0.25 U	<0.25 U
2-Nitrotoluene	88-72-2	<0.25 U	<0.25 U	<0.25 U
3-Nitrotoluene	99-08-1	<0.25 U	<0.25 U	<0.25 U
4-Amino-2,6-Dinitrotoluene	19406-51-0	<0.25 U	<0.25 U	<0.25 U
4-Nitrotoluene	99-99-0	<0.5 U	<0.5 U	<0.5 U
HMX	2691-41-0	<0.25 U	<0.25 U	<0.25 U
Nitrobenzene	98-95-3	<0.25 U	<0.25 U	<0.25 U
Nitrocellulose	9004-70-0	<2.4 UJ	NR	NR
Nitroglycerin	55-63-0	<0.5 U	<0.5 U	<0.5 U
Nitroguanidine	556-88-7	<0.25 U	NR	NR
PETN	78-11-5	<0.5 U	0.11 J	<0.5 U
RDX	121-82-4	<0.25 U	<0.25 U	<0.25 U
Tetryl	479-45-8	<0.25 U	<0.25 U	<0.25 U

Sample Type: MD=Incremental Sampling Methodology Duplicate; MI=Incremental Sampling Methodology.
Data Qualifiers: J=estimated; U=not detected; UJ=not detected and reporting limit estimated.
All samples were collected during the implementation of the PBA08 RI SAP.
CAS=Chemical Abstract Service
NR=not reported

Table D-3. Results for Metals Measured in Discrete Soil Samples at Anchor Test Area

Station		ATAsb-006	ATAsb-006	ATAsb-006	ATAsb-006
Sample Id		ATAsb-006-6080-FD	ATAsb-006-5127-SO	ATAsb-006-5128-SO	ATAsb-006-5129-SO
Date		02/24/10	02/24/10	02/24/10	02/24/10
Depth (ft)		0.0 - 1.0	0.0 - 1.0	1.0 - 4.0	4.0 - 7.0
Sample Type	CAS Number	FD	GR	GR	GR
Analyte (mg/kg)					
Aluminum	7429-90-5	2400 J	2490 J	2100 J	2740
Antimony	7440-36-0	0.1 J	0.12 J	0.085 J	0.072 J
Arsenic	7440-38-2	8	7.4	6.8	6.4
Barium	7440-39-3	15.4	16.5	12.9	15.7
Beryllium	7440-41-7	0.15	0.15	0.15	0.15
Cadmium	7440-43-9	0.19 J	0.095 J	0.063 J	0.059 J
Calcium	7440-70-2	26400	17600	52100	20700
Chromium	7440-47-3	4.9	5.1	3.6	4.9
Chromium, hexavalent	18540-29-9	NR	NR	NR	NR
Cobalt	7440-48-4	3.2	3.8	2.9	3.2
Copper	7440-50-8	11.3	13.3	9.7	11
Iron	7439-89-6	12100	12400	12000	11300
Lead	7439-92-1	7.6	7.7	6.3	5.7
Magnesium	7439-95-4	2600	4580	2670	6540
Manganese	7439-96-5	289	243	420	274
Mercury	7439-97-6	0.017 J	0.061 J	<0.11 U	<0.11 U
Nickel	7440-02-0	8.6	8.4	7.5	8.8
Potassium	7440-09-7	309	289	287	456
Selenium	7782-49-2	0.48 J	0.51 J	0.69	0.46 J
Silver	7440-22-4	0.028 J	<0.021 UJ	0.017 J	0.014 J
Sodium	7440-23-5	37.7 J	35.2 J	48.9 J	43.6 J
Thallium	7440-28-0	0.075 J	0.068 J	<0.21 U	0.084 J
Vanadium	7440-62-2	5.6	5.7	4.6	5.3
Zinc	7440-66-6	44.1	49.3	32.1	49.2

Table D-3. Results for Metals Measured in Discrete Soil Samples at Anchor Test Area (continued)

Station		ATAsb-006	ATAsb-008	ATAsb-008	ATAsb-008
Sample Id		ATAsb-006-5130-SO	ATAsb-008-5133-SO	ATAsb-008-5134-SO	ATAsb-008-5135-SO
Date		02/24/10	02/24/10	02/24/10	02/24/10
Depth (ft)		7.0 - 13.0	0.0 - 1.0	1.0 - 4.0	4.0 - 7.0
Sample Type	CAS Number	GR	GR	GR	GR
Analyte (mg/kg)					
Aluminum	7429-90-5	3520	2680 J	2370 J	2230
Antimony	7440-36-0	0.089 J	0.1 J	0.11 J	0.067 J
Arsenic	7440-38-2	11.3	5.8	6.3	5.1
Barium	7440-39-3	24.5	13.4	16.3	12.5
Beryllium	7440-41-7	0.17	0.14	0.14	0.16
Cadmium	7440-43-9	0.086 J	0.069 J	0.063 J	0.062 J
Calcium	7440-70-2	15900	15800	25600	45400
Chromium	7440-47-3	5.7	4.9	4.2	5.4
Chromium, hexavalent	18540-29-9	NR	NR	NR	NR
Cobalt	7440-48-4	4.9	3.4	3	2.6
Copper	7440-50-8	20.9	13.4	11.2	9.1
Iron	7439-89-6	16700	12000	12700	14400
Lead	7439-92-1	9.8	8.1	5.5	5.6
Magnesium	7439-95-4	3810	2850	3010	19300
Manganese	7439-96-5	290	247	230	316
Mercury	7439-97-6	<0.13 U	<0.11 U	<0.11 U	<0.11 U
Nickel	7440-02-0	12.4	8.5	8.5	6.6
Potassium	7440-09-7	571	331	336	370
Selenium	7782-49-2	0.58 J	0.74	0.57	0.39 J
Silver	7440-22-4	<0.018 UJ	0.014 J	0.017 J	0.011 J
Sodium	7440-23-5	42.7 J	31.7 J	40 J	62.6 J
Thallium	7440-28-0	0.13 J	<0.23 U	<0.21 U	<0.21 U
Vanadium	7440-62-2	7.2	5	5	5.2
Zinc	7440-66-6	61.7	38.1	45.3	35.1

Table D-3. Results for Metals Measured in Discrete Soil Samples at Anchor Test Area (continued)

Station		ATAsb-009	ATAsb-009	ATAsb-009	ATAsb-009
Sample Id		ATAsb-009-5137-SO	ATAsb-009-5138-SO	ATAsb-009-6081-FD	ATAsb-009-5139-SO
Date		02/24/10	02/24/10	02/24/10	02/24/10
Depth (ft)		0.0 - 1.0	1.0 - 4.0	4.0 - 7.0	4.0 - 7.0
Sample Type	CAS Number	GR	GR	FD	GR
Analyte (mg/kg)					
Aluminum	7429-90-5	16400 J	14900 J	4370 J	5210
Antimony	7440-36-0	0.11 J	0.084 J	0.076 J	0.071 J
Arsenic	7440-38-2	12.7	10.7	9.8	8.7
Barium	7440-39-3	49.2	96.1	26	32.5
Beryllium	7440-41-7	0.64	0.81	0.24	0.28
Cadmium	7440-43-9	0.042 J	0.082 J	0.08 J	0.062 J
Calcium	7440-70-2	2270	26000	12900	15900
Chromium	7440-47-3	20.9	22.2	7.2	8.4
Chromium, hexavalent	18540-29-9	NR	NR	NR	NR
Cobalt	7440-48-4	8.8	13.8	4.9	5.5
Copper	7440-50-8	20.9	20.1	16.1	15.6
Iron	7439-89-6	30200	28600	14400	15700
Lead	7439-92-1	13.3	11.9	8.6	8.1
Magnesium	7439-95-4	3810	7690	3660	4140
Manganese	7439-96-5	204	437	246	243
Mercury	7439-97-6	0.049 J	0.033 J	<0.12 U	<0.11 U
Nickel	7440-02-0	25.1	32.5	12.1	13.9
Potassium	7440-09-7	1450	2460	827	1050
Selenium	7782-49-2	0.86	1	0.67	0.48 J
Silver	7440-22-4	0.021 J	0.02 J	0.019 J	0.02 J
Sodium	7440-23-5	43.8 J	96.4 J	61.3 J	59.2 J
Thallium	7440-28-0	0.17 J	0.2 J	0.089 J	0.12 J
Vanadium	7440-62-2	24.3	25.2	9.5	10.3
Zinc	7440-66-6	60.9	60.4	52	47.9

Table D-3. Results for Metals Measured in Discrete Soil Samples at Anchor Test Area (continued)

Station		ATAsb-010	ATAsb-010	ATAsb-010	ATAsb-011
Sample Id		ATAsb-010-5141-SO	ATAsb-010-5142-SO	ATAsb-010-5143-SO	ATAsb-011-5145-SO
Date		02/24/10	02/24/10	02/24/10	02/24/10
Depth (ft)		0.0 - 1.0	1.0 - 4.0	4.0 - 7.0	0.0 - 1.0
Sample Type	CAS Number	GR	GR	GR	GR
Analyte (mg/kg)					
Aluminum	7429-90-5	15400	12600 J	7340	13100 J
Antimony	7440-36-0	0.15 J	0.1 J	0.078 J	0.13 J
Arsenic	7440-38-2	11.6	13.3	10.9	11.6
Barium	7440-39-3	47.9 J	104	46.9	65.1
Beryllium	7440-41-7	0.4	0.72	0.41	0.57
Cadmium	7440-43-9	0.028 J	0.085 J	0.082 J	0.12 J
Calcium	7440-70-2	542	1780	31300	961
Chromium	7440-47-3	18	18.2	12.6	16.9
Chromium, hexavalent	18540-29-9	NR	NR	NR	NR
Cobalt	7440-48-4	5.7	13.5	8.1	12
Copper	7440-50-8	11.1	23.1	19.4	8.5
Iron	7439-89-6	25200	28600	21300	25900
Lead	7439-92-1	12.2	13	10.1	19.7
Magnesium	7439-95-4	2660	4560	5110	2300
Manganese	7439-96-5	184	426	295	1180
Mercury	7439-97-6	0.048 J	<0.12 U	<0.12 U	0.077 J
Nickel	7440-02-0	12.5	38.6	19	12.5
Potassium	7440-09-7	923	1530	1230	890
Selenium	7782-49-2	0.87	1.1	0.66	1.1
Silver	7440-22-4	0.024 J	0.013 J	0.023 J	0.04 J
Sodium	7440-23-5	103 J	66.3 J	70.3 J	36.9 J
Thallium	7440-28-0	0.2 J	0.18 J	0.16 J	0.17 J
Vanadium	7440-62-2	30.1	20.2	14	27.4
Zinc	7440-66-6	41.9 J	68.8	57.2	57.1

Table D-3. Results for Metals Measured in Discrete Soil Samples at Anchor Test Area (continued)

Station		ATAsb-011	ATAsb-011	ATAss-012	ATAss-013	ATAss-014
Sample Id		ATAsb-011-5146-SO	ATAsb-011-5147-SO	ATAss-012-5033-SO	ATAss-013-5034-SO	ATAss-014-5035-SO
Date		02/24/10	02/24/10	02/17/10	02/17/10	02/17/10
Depth (ft)		1.0 - 4.0	4.0 - 7.0	0.0 - 1.0	0.0 - 1.0	0.0 - 1.0
Sample Type	CAS Number	GR	GR	GR	GR	GR
Analyte (mg/kg)						
Aluminum	7429-90-5	15800 J	10200	NR	NR	NR
Antimony	7440-36-0	0.09 J	0.074 J	NR	NR	NR
Arsenic	7440-38-2	12.2	9.7	NR	NR	NR
Barium	7440-39-3	80.6	59	NR	NR	NR
Beryllium	7440-41-7	0.6	0.55	NR	NR	NR
Cadmium	7440-43-9	0.042 J	0.08 J	NR	NR	NR
Calcium	7440-70-2	1280	25000	NR	NR	NR
Chromium	7440-47-3	20.9	16.6	20.7	16	4
Chromium, hexavalent	18540-29-9	NR	NR	1.1	<1 U	<0.93 U
Cobalt	7440-48-4	9.1	10.4	NR	NR	NR
Copper	7440-50-8	20	18.9	NR	NR	NR
Iron	7439-89-6	29700	24700	NR	NR	NR
Lead	7439-92-1	12.8	10.6	NR	NR	NR
Magnesium	7439-95-4	3920	6190	NR	NR	NR
Manganese	7439-96-5	167	383	NR	NR	NR
Mercury	7439-97-6	0.04 J	<0.12 U	NR	NR	NR
Nickel	7440-02-0	25.2	25.3	NR	NR	NR
Potassium	7440-09-7	1110	1870	NR	NR	NR
Selenium	7782-49-2	0.91	0.66	NR	NR	NR
Silver	7440-22-4	0.021 J	0.019 J	NR	NR	NR
Sodium	7440-23-5	45.5 J	91.5 J	NR	NR	NR
Thallium	7440-28-0	0.18 J	0.18 J	NR	NR	NR
Vanadium	7440-62-2	23.8	18.6	NR	NR	NR
Zinc	7440-66-6	52.5	56.3	NR	NR	NR

Sample Type: FD=Field Duplicate; GR=Grab.
Data Qualifiers: J=estimated; U=not detected; UJ=not detected and reporting limit estimated.
All samples were collected during the implementation of the PBA08 RI SAP.
CAS=Chemical Abstract Service
NR=not reported

Table D-4. Results for Metals Measured in Incremental Sampling Methodology Soil Samples at Anchor Test Area

Station		ATAss-015M	ATAss-016M	ATAss-016M
Sample Id		ATAss-015M-5036-SO	ATAss-016M-6047-FD	ATAss-016M-5037-SO
Date		02/17/10	02/17/10	02/17/10
Depth (ft)		0.0 - 1.0	0.0 - 1.0	0.0 - 1.0
Sample Type	CAS Number	MI	MD	MI
Analyte (mg/kg)				
Aluminum	7429-90-5	13100	12200	11400
Antimony	7440-36-0	0.14 J	0.11 J	0.11 J
Arsenic	7440-38-2	12	10.8	10
Barium	7440-39-3	61.9	70.4	70.8
Beryllium	7440-41-7	0.54	0.55	0.54
Cadmium	7440-43-9	0.1 J	0.16 J	0.16 J
Calcium	7440-70-2	5000	1150	1100
Chromium	7440-47-3	42.3	28	25.2
Cobalt	7440-48-4	9	10	10.6
Copper	7440-50-8	16.8	10.9	10.1
Iron	7439-89-6	26300	24200	22300
Lead	7439-92-1	15	18.1	18.9
Magnesium	7439-95-4	3680	2350	2230
Manganese	7439-96-5	418	1170	1260
Mercury	7439-97-6	0.038 J	0.049 J	0.062 J
Nickel	7440-02-0	31.9	20	18.1
Potassium	7440-09-7	1080	753	661
Selenium	7782-49-2	0.86	0.85	0.9
Silver	7440-22-4	<0.026 UJ	<0.041 UJ	<0.043 UJ
Sodium	7440-23-5	49.8 J	32.5 J	31.4 J
Thallium	7440-28-0	0.18 J	0.17 J	0.18 J
Vanadium	7440-62-2	21.1	24	22.1
Zinc	7440-66-6	53.7	56.6	49.6

Sample Type: MD=Incremental Sampling Methodology Duplicate; MI=Incremental Sampling Methodology.
Data Qualifiers: J=estimated; UJ=not detected and reporting limit estimated.
All samples were collected during the implementation of the PBA08 RI SAP.
CAS=Chemical Abstract Service

Table D-5. Results for SVOCs Including PAHs Measured in Discrete Soil Samples at Anchor Test Area

Station		ATAsb-008	ATAsb-008	ATAsb-008
Sample Id		ATAsb-008-5133-SO	ATAsb-008-5134-SO	ATAsb-008-5135-SO
Date		02/24/10	02/24/10	02/24/10
Depth (ft)		0.0 - 1.0	1.0 - 4.0	4.0 - 7.0
Sample Type	CAS Number	GR	GR	GR
Analyte (mg/kg)				
1,2,4-Trichlorobenzene	120-82-1	<0.37 U	<0.35 U	<0.35 U
1,2-Dichlorobenzene	95-50-1	<0.37 U	<0.35 U	<0.35 U
1,3-Dichlorobenzene	541-73-1	<0.37 U	<0.35 U	<0.35 U
1,4-Dichlorobenzene	106-46-7	<0.37 U	<0.35 U	<0.35 U
2,4,5-Trichlorophenol	95-95-4	<0.37 U	<0.35 U	<0.35 U
2,4,6-Trichlorophenol	88-06-2	<0.37 U	<0.35 U	<0.35 U
2,4-Dichlorophenol	120-83-2	<0.37 U	<0.35 U	<0.35 U
2,4-Dimethylphenol	105-67-9	<0.37 U	<0.35 U	<0.35 U
2,4-Dinitrophenol	51-28-5	<0.9 U	<0.84 U	<0.85 U
2,4-Dinitrotoluene	121-14-2	<0.37 U	<0.35 U	<0.35 U
2,6-Dinitrotoluene	606-20-2	<0.37 U	<0.35 U	<0.35 U
2-Chloronaphthalene	91-58-7	<0.37 U	<0.35 U	<0.35 U
2-Chlorophenol	95-57-8	<0.37 U	<0.35 U	<0.35 U
2-Methyl-4,6-dinitrophenol	534-52-1	<0.9 U	<0.84 U	<0.85 U
2-Methylnaphthalene	91-57-6	<0.37 U	<0.35 U	<0.35 U
2-Methylphenol	95-48-7	<0.37 U	<0.35 U	<0.35 U
2-Nitrobenzenamine	88-74-4	<0.9 U	<0.84 U	<0.85 U
2-Nitrophenol	88-75-5	<0.37 U	<0.35 U	<0.35 U
3+4-Methylphenol	15831-10-4	<0.37 U	<0.35 U	<0.35 U
3,3'-Dichlorobenzidine	91-94-1	<0.37 U	<0.35 U	<0.35 U
3-Nitrobenzenamine	99-09-2	<0.9 U	<0.84 U	<0.85 U
4-Bromophenyl phenyl ether	101-55-3	<0.37 U	<0.35 U	<0.35 U
4-Chloro-3-methylphenol	59-50-7	<0.37 U	<0.35 U	<0.35 U
4-Chlorobenzenamine	106-47-8	<0.37 U	<0.35 U	<0.35 U
4-Chlorophenyl phenyl ether	7005-72-3	<0.37 U	<0.35 U	<0.35 U
4-Nitrobenzenamine	100-01-6	<0.9 U	<0.84 U	<0.85 U
4-Nitrophenol	100-02-7	<0.9 U	<0.84 U	<0.85 U
Acenaphthene	83-32-9	<0.056 U	<0.053 U	<0.053 U
Acenaphthylene	208-96-8	<0.056 U	<0.053 U	<0.053 U
Anthracene	120-12-7	<0.056 U	<0.053 U	<0.053 U
Benz(a)anthracene	56-55-3	<0.056 U	<0.053 U	<0.053 U
Benzenemethanol	100-51-6	<0.37 U	<0.35 U	<0.35 U
Benzo(a)pyrene	50-32-8	<0.056 U	<0.053 U	<0.053 U
Benzo(b)fluoranthene	205-99-2	<0.056 U	<0.053 U	<0.053 U
Benzo(ghi)perylene	191-24-2	<0.056 U	<0.053 U	<0.053 U
Benzo(k)fluoranthene	207-08-9	<0.056 U	<0.053 U	<0.053 U
Benzoic acid	65-85-0	<0.9 U	<0.84 U	<0.85 U
Bis(2-chloroethoxy)methane	111-91-1	<0.37 U	<0.35 U	<0.35 U
Bis(2-chloroethyl) ether	111-44-4	<0.37 U	<0.35 U	<0.35 U
Bis(2-chloroisopropyl) ether	108-60-1	<0.37 U	<0.35 U	<0.35 U
Bis(2-ethylhexyl)phthalate	117-81-7	<0.37 UJ	<0.35 UJ	0.025 J

Table D-5. Results for SVOCs Including PAHs Measured in Discrete Soil Samples at Anchor Test Area (continued)

Station		ATAsb-008	ATAsb-008	ATAsb-008
Sample Id		ATAsb-008-5133-SO	ATAsb-008-5134-SO	ATAsb-008-5135-SO
Date		02/24/10	02/24/10	02/24/10
Depth (ft)		0.0 - 1.0	1.0 - 4.0	4.0 - 7.0
Sample Type	CAS Number	GR	GR	GR
Analyte (mg/kg)				
Butyl benzyl phthalate	85-68-7	<0.37 U	<0.35 U	<0.35 U
Carbazole	86-74-8	<0.056 U	<0.053 U	<0.053 U
Chrysene	218-01-9	<0.056 U	<0.053 U	<0.053 U
Di-n-butyl phthalate	84-74-2	<0.37 U	<0.35 U	<0.35 U
Di-n-octylphthalate	117-84-0	<0.37 U	<0.35 U	<0.35 U
Dibenz(a,h)anthracene	53-70-3	<0.056 U	<0.053 U	<0.053 U
Dibenzofuran	132-64-9	<0.37 U	<0.35 U	<0.35 U
Diethyl phthalate	84-66-2	<0.37 U	<0.35 U	<0.35 U
Dimethyl phthalate	131-11-3	<0.37 U	<0.35 U	<0.35 U
Fluoranthene	206-44-0	<0.056 U	<0.053 U	<0.053 U
Fluorene	86-73-7	<0.056 U	<0.053 U	<0.053 U
Hexachlorobenzene	118-74-1	<0.37 U	<0.35 U	<0.35 U
Hexachlorobutadiene	87-68-3	<0.37 U	<0.35 U	<0.35 U
Hexachlorocyclopentadiene	77-47-4	<0.37 U	<0.35 U	<0.35 U
Hexachloroethane	67-72-1	<0.37 U	<0.35 U	<0.35 U
Indeno(1,2,3-cd)pyrene	193-39-5	<0.056 U	<0.053 U	<0.053 U
Isophorone	78-59-1	<0.37 U	<0.35 U	<0.35 U
N-Nitroso-di-n-propylamine	621-64-7	<0.37 U	<0.35 U	<0.35 U
N-Nitrosodiphenylamine	86-30-6	<0.37 U	<0.35 U	<0.35 U
Naphthalene	91-20-3	<0.056 U	<0.053 U	<0.053 U
Nitrobenzene	98-95-3	<0.37 U	<0.35 U	<0.35 U
Pentachlorophenol	87-86-5	<0.37 U	<0.35 U	<0.35 U
Phenanthrene	85-01-8	<0.056 U	<0.053 U	<0.053 U
Phenol	108-95-2	<0.37 U	<0.35 U	<0.35 U
Pyrene	129-00-0	<0.056 U	<0.053 U	<0.053 U

Sample Type: MD=Incremental Sampling Methodology Duplicate.
Data Qualifiers: J=estimated; U=not detected; UJ=not detected and reporting limit estimated.
All samples were collected during the implementation of the PBA08 RI SAP.
CAS=Chemical Abstract Service
PAH=Polycyclic Aromatic Hydrocarbon
SVOC=Semi-volatile Organic Compound

Table D-6. Results for SVOCs Including PAHs Measured in Incremental Sampling Methodology Soil Samples at Anchor Test Area

Station		ATAss-015M
Sample Id		ATAss-015M-5036-SO
Date		02/17/10
Depth (ft)		0.0 - 1.0
Sample Type	CAS Number	MI
Analyte (mg/kg)		
1,2,4-Trichlorobenzene	120-82-1	<0.34 U
1,2-Dichlorobenzene	95-50-1	<0.34 U
1,3-Dichlorobenzene	541-73-1	<0.34 U
1,4-Dichlorobenzene	106-46-7	<0.34 U
2,4,5-Trichlorophenol	95-95-4	<0.34 U
2,4,6-Trichlorophenol	88-06-2	<0.34 U
2,4-Dichlorophenol	120-83-2	<0.34 U
2,4-Dimethylphenol	105-67-9	<0.34 U
2,4-Dinitrophenol	51-28-5	<0.82 U
2,4-Dinitrotoluene	121-14-2	<0.34 U
2,6-Dinitrotoluene	606-20-2	<0.34 U
2-Chloronaphthalene	91-58-7	<0.34 U
2-Chlorophenol	95-57-8	<0.34 U
2-Methyl-4,6-dinitrophenol	534-52-1	<0.82 U
2-Methylnaphthalene	91-57-6	0.0092 J
2-Methylphenol	95-48-7	<0.34 U
2-Nitrobenzenamine	88-74-4	<0.82 U
2-Nitrophenol	88-75-5	<0.34 U
3+4-Methylphenol	15831-10-4	<0.34 U
3,3'-Dichlorobenzidine	91-94-1	<0.34 U
3-Nitrobenzenamine	99-09-2	<0.82 U
4-Bromophenyl phenyl ether	101-55-3	<0.34 U
4-Chloro-3-methylphenol	59-50-7	<0.34 U
4-Chlorobenzenamine	106-47-8	<0.34 U
4-Chlorophenyl phenyl ether	7005-72-3	<0.34 U
4-Nitrobenzenamine	100-01-6	<0.82 U
4-Nitrophenol	100-02-7	<0.82 U
Acenaphthene	83-32-9	<0.051 U
Acenaphthylene	208-96-8	<0.051 U
Anthracene	120-12-7	<0.051 U
Benz(a)anthracene	56-55-3	<0.051 U
Benzenemethanol	100-51-6	<0.34 U
Benzo(a)pyrene	50-32-8	<0.051 U
Benzo(b)fluoranthene	205-99-2	<0.051 U
Benzo(ghi)perylene	191-24-2	<0.051 U
Benzo(k)fluoranthene	207-08-9	<0.051 U
Benzoic acid	65-85-0	<0.82 U
Bis(2-chloroethoxy)methane	111-91-1	<0.34 U
Bis(2-chloroethyl) ether	111-44-4	<0.34 U
Bis(2-chloroisopropyl) ether	108-60-1	<0.34 U
Bis(2-ethylhexyl)phthalate	117-81-7	0.069 J

Table D-6. Results for SVOCs Including PAHs Measured in Incremental Sampling Methodology Soil Samples at Anchor Test Area (continued)

Station		ATAss-015M
Sample Id		ATAss-015M-5036-SO
Date		02/17/10
Depth (ft)		0.0 - 1.0
Sample Type	CAS Number	MI
Analyte (mg/kg)		
Butyl benzyl phthalate	85-68-7	<0.34 U
Carbazole	86-74-8	<0.051 U
Chrysene	218-01-9	<0.051 U
Di-n-butyl phthalate	84-74-2	<0.34 U
Di-n-octylphthalate	117-84-0	<0.34 U
Dibenz(a,h)anthracene	53-70-3	<0.051 U
Dibenzofuran	132-64-9	<0.34 U
Diethyl phthalate	84-66-2	<0.34 U
Dimethyl phthalate	131-11-3	<0.34 U
Fluoranthene	206-44-0	<0.051 U
Fluorene	86-73-7	<0.051 U
Hexachlorobenzene	118-74-1	<0.34 U
Hexachlorobutadiene	87-68-3	<0.34 U
Hexachlorocyclopentadiene	77-47-4	<0.34 U
Hexachloroethane	67-72-1	<0.34 U
Indeno(1,2,3-cd)pyrene	193-39-5	<0.051 U
Isophorone	78-59-1	<0.34 U
N-Nitroso-di-n-propylamine	621-64-7	<0.34 U
N-Nitrosodiphenylamine	86-30-6	<0.34 U
Naphthalene	91-20-3	0.012 J
Nitrobenzene	98-95-3	<0.34 U
Pentachlorophenol	87-86-5	<0.34 U
Phenanthrene	85-01-8	<0.051 U
Phenol	108-95-2	<0.34 U
Pyrene	129-00-0	<0.051 U

Sample Type: MD=Incremental Sampling Methodology Duplicate; MI=Incremental Sampling Methodology.

Data Qualifiers: J=estimated; U=not detected.

All samples were collected during the implementation of the PBA08 RI SAP.

CAS=Chemical Abstract Service

PAH=Polycyclic Aromatic Hydrocarbon

SVOC=Semi-volatile Organic Compound

Table D-7. Results for VOCs Measured in Discrete Soil Samples at Anchor Test Area

Station		ATAsb-008	ATAsb-008	ATAsb-008
Sample Id		ATAsb-008-5133-SO	ATAsb-008-5134-SO	ATAsb-008-5135-SO
Date		02/24/10	02/24/10	02/24/10
Depth (ft)		0.0 - 1.0	1.0 - 4.0	4.0 - 7.0
Sample Type	CAS Number	GR	GR	GR
Analyte (mg/kg)				
1,1,1-Trichloroethane	71-55-6	<0.0056 U	<0.0053 U	<0.0053 U
1,1,2,2-Tetrachloroethane	79-34-5	<0.0056 U	<0.0053 U	<0.0053 U
1,1,2-Trichloroethane	79-00-5	<0.0056 U	<0.0053 U	<0.0053 U
1,1-Dichloroethane	75-34-3	<0.0056 U	<0.0053 U	<0.0053 U
1,1-Dichloroethene	75-35-4	<0.0056 U	<0.0053 U	<0.0053 U
1,2-Dibromoethane	106-93-4	<0.0056 U	<0.0053 U	<0.0053 U
1,2-Dichloroethane	107-06-2	<0.0056 U	<0.0053 U	<0.0053 U
1,2-Dichloroethene	540-59-0	<0.0056 U	<0.0053 U	<0.0053 U
1,2-Dichloropropane	78-87-5	<0.0056 U	<0.0053 U	<0.0053 U
2-Butanone	78-93-3	<0.023 U	<0.021 U	<0.021 U
2-Hexanone	591-78-6	<0.023 U	<0.021 U	<0.021 U
4-Methyl-2-pentanone	108-10-1	<0.023 U	<0.021 U	<0.021 U
Acetone	67-64-1	<0.023 U	<0.021 U	<0.021 U
Benzene	71-43-2	<0.0056 U	<0.0053 U	<0.0053 U
Bromochloromethane	74-97-5	<0.0056 U	<0.0053 U	<0.0053 U
Bromodichloromethane	75-27-4	<0.0056 U	<0.0053 U	<0.0053 U
Bromoform	75-25-2	<0.0056 U	<0.0053 U	<0.0053 U
Bromomethane	74-83-9	<0.0056 U	<0.0053 U	<0.0053 U
Carbon disulfide	75-15-0	<0.0056 U	<0.0053 U	<0.0053 U
Carbon tetrachloride	56-23-5	<0.0056 UJ	<0.0053 UJ	<0.0053 UJ
Chlorobenzene	108-90-7	<0.0056 U	<0.0053 U	<0.0053 U
Chloroethane	75-00-3	<0.0056 U	<0.0053 U	<0.0053 U
Chloroform	67-66-3	<0.0056 U	<0.0053 U	<0.0053 U
Chloromethane	74-87-3	<0.0056 U	<0.0053 U	<0.0053 U
Dibromochloromethane	124-48-1	<0.0056 U	<0.0053 U	<0.0053 U
Dimethylbenzene	1330-20-7	<0.011 U	<0.011 U	<0.011 U
Ethylbenzene	100-41-4	<0.0056 U	<0.0053 U	<0.0053 U
Methylene chloride	75-09-2	<0.0056 U	<0.0053 U	0.0008 J
Styrene	100-42-5	<0.0056 U	<0.0053 U	<0.0053 U
Tetrachloroethene	127-18-4	<0.0056 U	<0.0053 U	<0.0053 U
Toluene	108-88-3	0.00034 J	0.00043 J	0.0005 J
Trichloroethene	79-01-6	<0.0056 U	<0.0053 U	<0.0053 U
Vinyl chloride	75-01-4	<0.0056 U	<0.0053 U	<0.0053 U
cis-1,3-Dichloropropene	10061-01-5	<0.0056 U	<0.0053 U	<0.0053 U
trans-1,3-Dichloropropene	10061-02-6	<0.0056 U	<0.0053 U	<0.0053 U

Sample Type: MD=Incremental Sampling Methodology Duplicate; MI=Incremental Sampling Methodology.
Data Qualifiers: J=estimated; U=not detected; UJ=not detected and reporting limit estimated.
All samples were collected during the implementation of the PBA08 RI SAP.
CAS=Chemical Abstract Service
VOC=Volatile Organic Compound

Table D-8. Results for VOCs Measured in Incremental Sampling Methodology Soil Samples at Anchor Test Area

Station		ATAss-015M
Sample Id		ATAss-015M-5036-SO
Date		02/17/10
Depth (ft)		0.0 - 1.0
Sample Type	CAS Number	MI
Analyte (mg/kg)		
1,1,1-Trichloroethane	71-55-6	<0.0067 U
1,1,2,2-Tetrachloroethane	79-34-5	<0.0067 U
1,1,2-Trichloroethane	79-00-5	<0.0067 U
1,1-Dichloroethane	75-34-3	<0.0067 U
1,1-Dichloroethene	75-35-4	<0.0067 U
1,2-Dibromoethane	106-93-4	<0.0067 U
1,2-Dichloroethane	107-06-2	<0.0067 U
1,2-Dichloroethene	540-59-0	<0.0067 U
1,2-Dichloropropane	78-87-5	<0.0067 U
2-Butanone	78-93-3	<0.027 U
2-Hexanone	591-78-6	<0.027 U
4-Methyl-2-pentanone	108-10-1	<0.027 U
Acetone	67-64-1	<0.027 U
Benzene	71-43-2	<0.0067 U
Bromochloromethane	74-97-5	<0.0067 U
Bromodichloromethane	75-27-4	<0.0067 U
Bromoform	75-25-2	<0.0067 U
Bromomethane	74-83-9	<0.0067 U
Carbon disulfide	75-15-0	<0.0067 U
Carbon tetrachloride	56-23-5	<0.0067 UJ
Chlorobenzene	108-90-7	<0.0067 U
Chloroethane	75-00-3	<0.0067 U
Chloroform	67-66-3	<0.0067 U
Chloromethane	74-87-3	<0.0067 U
Dibromochloromethane	124-48-1	<0.0067 U
Dimethylbenzene	1330-20-7	<0.013 U
Ethylbenzene	100-41-4	<0.0067 U
Methylene chloride	75-09-2	<0.0067 U
Styrene	100-42-5	<0.0067 U
Tetrachloroethene	127-18-4	<0.0067 U
Toluene	108-88-3	<0.0067 UJ
Trichloroethene	79-01-6	<0.0067 U
Vinyl chloride	75-01-4	<0.0067 U
cis-1,3-Dichloropropene	10061-01-5	<0.0067 U
trans-1,3-Dichloropropene	10061-02-6	<0.0067 U

Sample Type: MD=Incremental Sampling Methodology Duplicate; MI=Incremental Sampling Methodology.
Data Qualifiers: U=not detected; UJ=not detected and reporting limit estimated.
All samples were collected during the implementation of the PBA08 RI SAP.
CAS=Chemical Abstract Service
VOC=Volatile Organic Compound

Table D-9. Results for Pesticides and PCBs Measured in Discrete Soil Samples at Anchor Test Area

Station		ATAsb-008	ATAsb-008	ATAsb-008
Sample Id		ATAsb-008-5133-SO	ATAsb-008-5134-SO	ATAsb-008-5135-SO
Date		02/24/10	02/24/10	02/24/10
Depth (ft)		0.0 - 1.0	1.0 - 4.0	4.0 - 7.0
Sample Type	CAS Number	GR	GR	GR
Analyte (mg/kg)				
4,4'-DDD	72-54-8	<0.0045 UJ	<0.0021 UJ	<0.0021 U
4,4'-DDE	72-55-9	<0.0038 U	<0.0018 U	<0.0018 U
4,4'-DDT	50-29-3	<0.0045 U	<0.0021 U	<0.0021 U
Aldrin	309-00-2	<0.009 U	<0.0042 U	<0.0043 U
Dieldrin	60-57-1	<0.0038 U	<0.0018 U	<0.0018 U
Endosulfan I	959-98-8	<0.0038 U	<0.0018 U	<0.0018 U
Endosulfan II	33213-65-9	<0.0056 U	<0.0026 U	<0.0027 U
Endosulfan sulfate	1031-07-8	<0.0068 U	<0.0032 U	<0.0032 U
Endrin	72-20-8	<0.0038 U	<0.0018 U	<0.0018 U
Endrin aldehyde	7421-93-4	<0.0068 U	<0.0032 U	<0.0032 U
Endrin ketone	53494-70-5	<0.0045 U	<0.0021 U	<0.0021 U
Heptachlor	76-44-8	<0.0079 U	<0.0037 U	<0.0037 U
Heptachlor epoxide	1024-57-3	<0.0056 U	<0.0026 U	<0.0027 U
Lindane	58-89-9	<0.0056 U	<0.0026 U	<0.0027 U
Methoxychlor	72-43-5	<0.011 U	<0.0053 U	<0.0053 U
PCB-1016	12674-11-2	<0.037 U	<0.035 U	<0.035 U
PCB-1221	11104-28-2	<0.037 U	<0.035 U	<0.035 U
PCB-1232	11141-16-5	<0.037 U	<0.035 U	<0.035 U
PCB-1242	53469-21-9	<0.037 U	<0.035 U	<0.035 U
PCB-1248	12672-29-6	<0.037 U	<0.035 U	<0.035 U
PCB-1254	11097-69-1	<0.037 U	<0.035 U	<0.035 U
PCB-1260	11096-82-5	<0.037 U	<0.035 U	<0.035 U
Toxaphene	8001-35-2	<0.15 U	<0.07 U	<0.071 U
alpha-BHC	319-84-6	<0.0056 U	<0.0026 U	<0.0027 U
alpha-Chlordane	5103-71-9	<0.0068 U	<0.0032 U	<0.0032 U
beta-BHC	319-85-7	<0.0079 U	<0.0037 U	<0.0037 U
delta-BHC	319-86-8	<0.009 U	<0.0042 U	<0.0043 U
gamma-Chlordane	5103-74-2	<0.0038 U	<0.0018 U	<0.0018 U

Sample Type: MD=Incremental Sampling Methodology Duplicate.
Data Qualifiers: U=not detected; UJ=not detected and reporting limit estimated.
All samples were collected during the implementation of the PBA08 RI SAP.
CAS=Chemical Abstract Service
PCB = Polychlorinated Biphenyl

Table D-10. Results for Pesticides and PCBs Measured in Incremental Sampling Methodology Soil Samples at Anchor Test Area

Station		ATAss-015M
Sample Id		ATAss-015M-5036-SO
Date		02/17/10
Depth (ft)		0.0 - 1.0
Sample Type	CAS Number	MI
Analyte (mg/kg)		
4,4'-DDD	72-54-8	<0.0041 U
4,4'-DDE	72-55-9	<0.0035 U
4,4'-DDT	50-29-3	<0.0041 U
Aldrin	309-00-2	<0.0082 U
Dieldrin	60-57-1	<0.0035 U
Endosulfan I	959-98-8	<0.0035 U
Endosulfan II	33213-65-9	<0.0051 U
Endosulfan sulfate	1031-07-8	<0.0061 U
Endrin	72-20-8	<0.0035 U
Endrin aldehyde	7421-93-4	<0.0061 U
Endrin ketone	53494-70-5	<0.0041 U
Heptachlor	76-44-8	<0.0071 U
Heptachlor epoxide	1024-57-3	<0.0051 U
Lindane	58-89-9	<0.0051 U
Methoxychlor	72-43-5	<0.01 U
PCB-1016	12674-11-2	<0.034 U
PCB-1221	11104-28-2	<0.034 U
PCB-1232	11141-16-5	<0.034 U
PCB-1242	53469-21-9	<0.034 U
PCB-1248	12672-29-6	<0.034 U
PCB-1254	11097-69-1	<0.034 U
PCB-1260	11096-82-5	<0.034 U
Toxaphene	8001-35-2	<0.14 U
alpha-BHC	319-84-6	<0.0051 U
alpha-Chlordane	5103-71-9	<0.0061 U
beta-BHC	319-85-7	<0.0071 U
delta-BHC	319-86-8	<0.0082 U
gamma-Chlordane	5103-74-2	<0.0035 U

Sample Type: MD=Incremental Sampling Methodology Duplicate;
MI=Incremental Sampling Methodology.
Data Qualifiers: U=not detected.
All samples were collected during the implementation of the PBA08 RI SAP.
CAS=Chemical Abstract Service
PCB=Polychlorinated Biphenyl

Table D-11 Results for Geotechnical Samples at Anchor Test Area

Parameters	Sample ID	
	ATAsb-007-5131-SO	ATAsb-007-5132-SO
Collection depth	4.0-4.9 ft bgs	10.0-12.0 ft bgs
Porosity	31.30%	50.30%
Density	1.88 g/cm^3	1.34 g/cm^3
Moisture content	14.10%	19.91%
Total organic carbon	1,100 mg/kg	580J mg/kg
Size fraction analysis	1.1% gravel, 17.3% sand, 39.8% silt, 41.9% clay	39.1 % sand, 60.2 % silt, 0.7 % clay
Permeability (K)	4.9E-07 cm/sec	1.3E-04 cm/sec

APPENDIX D
PBA08 RI Laboratory Analytical Data Packages

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 172819.00.09456.00.9200.02.200

RVAAP PBA2008 17 AOCs RI

Lot #: A0B250453

CONTRACT NO: W912QR-04-D-0028

DELIVERY ORDER: 0001

Marie Simpson

SAIC
151 LaFayette Drive
PO Box 2502
Oak Ridge, TN 37831

TESTAMERICA LABORATORIES, INC.

Unless noted otherwise, the test results reported herein meet all requirements of NELAC and the current version of the DoD QSM.

Approved for release.
Mark J. Loeb
Project Manager II
3/11/2010 2:52 PM

Mark J. Loeb
Project Manager
mark.loeb@testamericainc.com

March 09, 2010

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0B250453

The following report contains the analytical results for five solid samples submitted to TestAmerica North Canton by SAIC from the RVAAP PBA2008 17 AOCS RI Site, project number 172819.00.09456.00.9200.02.200. The samples were received February 25, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Jenny Vance, Heather Miller, Marie Simpson, and Richard Sprinzl on March 04, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Mark J. Loeb, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 0.8 and 1.2°C.

GC/MS VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The samples affected are ATASB-008-5135-SO. The QCMRL opener had three compounds above 130 percent. The compounds are Bromomethane at 133.06 percent, Carbon Tetrachloride at 135.24 percent and Toluene at 134.03 percent. All three compounds had no reportable results in any of the samples. The QCMRL closer had 1 out of the 3 compounds above 130 percent, which is Carbon Tetrachloide at 134.43 percent. The QCMDL detected Carbon Tetrachloride and,all the other compounds as well.

GC/MS SEMIVOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 0057039 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

PESTICIDES-8081

The analytical results met the requirements of the laboratory's QA/QC program.

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

CASE NARRATIVE (continued)

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for batch(es) 0057017 due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

The matrix spike/matrix spike duplicate(s) for batch(es) 0057017 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Some reporting limits are lower than our standard reporting limit (SRL) but are supported by the laboratory's MDL and/or IDLs; however, there are no standards in the calibration curve low enough to support these values(s). The continuing calibration blanks and method blanks may not support the lower RL.

No Mercury or ICP MS Form IX provided for batch(es) 0057017. The serial dilution were performed on a different sample from the same QC batch(es).

Per client approval, it is acceptable to use the criteria for method banks (<1/2 the RL or <1/10 the lowest concentration in the associated samples) for CCB’s for the metals analysis.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0B250453

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-006-5129-SO 02/24/10 11:20 001				
Silver	0.014 J	0.53	mg/kg	SW846 6020
Aluminum	2740	10.6	mg/kg	SW846 6020
Arsenic	6.4	0.53	mg/kg	SW846 6020
Barium	15.7	1.1	mg/kg	SW846 6020
Beryllium	0.15	0.11	mg/kg	SW846 6020
Calcium	20700	212	mg/kg	SW846 6020
Cadmium	0.059 J	0.21	mg/kg	SW846 6020
Cobalt	3.2	0.53	mg/kg	SW846 6020
Chromium	4.9	0.53	mg/kg	SW846 6020
Copper	11.0	0.53	mg/kg	SW846 6020
Iron	11300	53.0	mg/kg	SW846 6020
Potassium	456 B	106	mg/kg	SW846 6020
Magnesium	6540	106	mg/kg	SW846 6020
Manganese	274	1.1	mg/kg	SW846 6020
Sodium	43.6 J	106	mg/kg	SW846 6020
Nickel	8.8	1.1	mg/kg	SW846 6020
Lead	5.7	0.32	mg/kg	SW846 6020
Antimony	0.072 J	0.53	mg/kg	SW846 6020
Selenium	0.46 J	0.53	mg/kg	SW846 6020
Thallium	0.084 J	0.21	mg/kg	SW846 6020
Vanadium	5.3	1.1	mg/kg	SW846 6020
Zinc	49.2	4.2	mg/kg	SW846 6020
Percent Solids	94.4	10.0	%	MCAWW 160.3 MOD
ATASB-008-5135-SO 02/24/10 12:50 002				
Silver	0.011 J	0.53	mg/kg	SW846 6020
Aluminum	2230	10.6	mg/kg	SW846 6020
Arsenic	5.1	0.53	mg/kg	SW846 6020
Barium	12.5	1.1	mg/kg	SW846 6020
Beryllium	0.16	0.11	mg/kg	SW846 6020
Calcium	45400	213	mg/kg	SW846 6020
Cadmium	0.062 J	0.21	mg/kg	SW846 6020
Cobalt	2.6	0.53	mg/kg	SW846 6020
Chromium	5.4	0.53	mg/kg	SW846 6020
Copper	9.1	0.53	mg/kg	SW846 6020
Iron	14400	53.1	mg/kg	SW846 6020
Potassium	370 B	106	mg/kg	SW846 6020
Magnesium	19300	106	mg/kg	SW846 6020
Manganese	316	1.1	mg/kg	SW846 6020
Sodium	62.6 J	106	mg/kg	SW846 6020
Nickel	6.6	1.1	mg/kg	SW846 6020
Lead	5.6	0.32	mg/kg	SW846 6020

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0B250453

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-008-5135-SO 02/24/10 12:50 002				
Antimony	0.067 J	0.53	mg/kg	SW846 6020
Selenium	0.39 J	0.53	mg/kg	SW846 6020
Vanadium	5.2	1.1	mg/kg	SW846 6020
Zinc	35.1	4.3	mg/kg	SW846 6020
bis(2-Ethylhexyl) phthalate	25 J	350	ug/kg	SW846 8270C
Methylene chloride	0.80 J	5.3	ug/kg	SW846 8260B
Toluene	0.50 J	5.3	ug/kg	SW846 8260B
Percent Solids	94.1	10.0	%	MCAWW 160.3 MOD
ATASB-009-5139-SO 02/24/10 13:55 003				
Silver	0.020 J	0.55	mg/kg	SW846 6020
Aluminum	5210	11.1	mg/kg	SW846 6020
Arsenic	8.7	0.55	mg/kg	SW846 6020
Barium	32.5	1.1	mg/kg	SW846 6020
Beryllium	0.28	0.11	mg/kg	SW846 6020
Calcium	15900	222	mg/kg	SW846 6020
Cadmium	0.062 J	0.22	mg/kg	SW846 6020
Cobalt	5.5	0.55	mg/kg	SW846 6020
Chromium	8.4	0.55	mg/kg	SW846 6020
Copper	15.6	0.55	mg/kg	SW846 6020
Iron	15700	55.4	mg/kg	SW846 6020
Potassium	1050 B	111	mg/kg	SW846 6020
Magnesium	4140	111	mg/kg	SW846 6020
Manganese	243	1.1	mg/kg	SW846 6020
Sodium	59.2 J	111	mg/kg	SW846 6020
Nickel	13.9	1.1	mg/kg	SW846 6020
Lead	8.1	0.33	mg/kg	SW846 6020
Antimony	0.071 J	0.55	mg/kg	SW846 6020
Selenium	0.48 J	0.55	mg/kg	SW846 6020
Thallium	0.12 J	0.22	mg/kg	SW846 6020
Vanadium	10.3	1.1	mg/kg	SW846 6020
Zinc	47.9	4.4	mg/kg	SW846 6020
Percent Solids	90.2	10.0	%	MCAWW 160.3 MOD
ATASB-010-5143-SO 02/24/10 09:23 004				
Silver	0.023 J	0.59	mg/kg	SW846 6020
Aluminum	7340	11.7	mg/kg	SW846 6020
Arsenic	10.9	0.59	mg/kg	SW846 6020
Barium	46.9	1.2	mg/kg	SW846 6020
Beryllium	0.41	0.12	mg/kg	SW846 6020

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0B250453

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-010-5143-SO 02/24/10 09:23 004				
Calcium	31300	234	mg/kg	SW846 6020
Cadmium	0.082 J	0.23	mg/kg	SW846 6020
Cobalt	8.1	0.59	mg/kg	SW846 6020
Chromium	12.6	0.59	mg/kg	SW846 6020
Copper	19.4	0.59	mg/kg	SW846 6020
Iron	21300	58.5	mg/kg	SW846 6020
Potassium	1230 B	117	mg/kg	SW846 6020
Magnesium	5110	117	mg/kg	SW846 6020
Manganese	295	1.2	mg/kg	SW846 6020
Sodium	70.3 J	117	mg/kg	SW846 6020
Nickel	19.0	1.2	mg/kg	SW846 6020
Lead	10.1	0.35	mg/kg	SW846 6020
Antimony	0.078 J	0.59	mg/kg	SW846 6020
Selenium	0.66	0.59	mg/kg	SW846 6020
Thallium	0.16 J	0.23	mg/kg	SW846 6020
Vanadium	14.0	1.2	mg/kg	SW846 6020
Zinc	57.2	4.7	mg/kg	SW846 6020
Percent Solids	85.5	10.0	%	MCAWW 160.3 MOD
ATASB-011-5147-SO 02/24/10 10:45 005				
Silver	0.019 J	0.58	mg/kg	SW846 6020
Aluminum	10200	11.7	mg/kg	SW846 6020
Arsenic	9.7	0.58	mg/kg	SW846 6020
Barium	59.0	1.2	mg/kg	SW846 6020
Beryllium	0.55	0.12	mg/kg	SW846 6020
Calcium	25000	234	mg/kg	SW846 6020
Cadmium	0.080 J	0.23	mg/kg	SW846 6020
Cobalt	10.4	0.58	mg/kg	SW846 6020
Chromium	16.6	0.58	mg/kg	SW846 6020
Copper	18.9	0.58	mg/kg	SW846 6020
Iron	24700	58.4	mg/kg	SW846 6020
Potassium	1870 B	117	mg/kg	SW846 6020
Magnesium	6190	117	mg/kg	SW846 6020
Manganese	383	1.2	mg/kg	SW846 6020
Sodium	91.5 J	117	mg/kg	SW846 6020
Nickel	25.3	1.2	mg/kg	SW846 6020
Lead	10.6	0.35	mg/kg	SW846 6020
Antimony	0.074 J	0.58	mg/kg	SW846 6020
Selenium	0.66	0.58	mg/kg	SW846 6020
Thallium	0.18 J	0.23	mg/kg	SW846 6020
Vanadium	18.6	1.2	mg/kg	SW846 6020
Zinc	56.3	4.7	mg/kg	SW846 6020

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0B250453

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-011-5147-SO 02/24/10 10:45 005				
Percent Solids	85.6	10.0	%	MCAWW 160.3 MOD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0B250453

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Organochlorine Pesticides	SW846 8081A
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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SAMPLE SUMMARY

SAMPLE SUMMARY

A0B250453

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LV3H6	001	ATASB-006-5129-SO	02/24/10	11:20
LV3JM	002	ATASB-008-5135-SO	02/24/10	12:50
LV3JV	003	ATASB-009-5139-SO	02/24/10	13:55
LV3JW	004	ATASB-010-5143-SO	02/24/10	09:23
LV3J1	005	ATASB-011-5147-SO	02/24/10	10:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica
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SHIPPING AND RECEIVING DOCUMENTS

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THE LEADER IN ENVIRONMENTAL TESTING
515751

Custody Seal
DATE
SIGNATURE

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515752

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515750

SAIC
From Science to Solutions
151 Lafayette Drive, Oak Ridge, TN 37831
(865) 481-4600

Chain of Custody Record

Science Applications International Corporation

COC NO.: RVAAP-PBA08RI-017
Date: 2/25/2010

PROJECT NAME: RVAAP PBA2008 17 AOCs RI
PO NUMBER: PO10025302
PROJECT NUMBER: 172819.00.09456.00.9200.02.200
PROJECT MANAGER: Kevin Jago
AOC: Anchor Test Area (Subsurface Soil)

Sampler (Signature): RSprinzl (Printed Name): RichSprinzl

Laboratory Name: TestAmerica
Address: 4101 Shuffel Street NW, North Canton, Ohio 44720
Attn: Mark Loeb
Phone: 330-966-9387

Sample ID	Station ID	Depth (ft)	Date Collected	Time Collected	Matrix	Requested Parameters: TAL Metals + Hg 1	Explosives 2	SVOCs 3	Propellants 4	VOCs 5	Pesticides 6	PCBs 7	PAHs 8	Asbestos 9	Porosity 10	Bulk Density 11	Moisture content 12	Total organic carbon 13	grain size fraction analysis 14	permeability, K (undisturbed) 15	No. of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
ATASB-006-5127-SO	ATAsb-006	0-1	2/24/2010	1053	SO	X	X														2	
ATASB-006-6080-FD	ATAsb-006	0-1	2/24/2010	1053	SO	X	X														2	
ATASB-006-5128-SO	ATAsb-006	1-4	2/24/2010	1115	SO	X	X														2	
ATASB-006-5129-SO	ATAsb-006	4-7	2/24/2010	1120	SO	X	X														2	**RUSH 5 day TAT**
ATASB-008-5133-SO	ATAsb-008	0-1	2/24/2010	1230	SO	X	X	X	X	X	X	X									4	
ATASB-008-5134-SO	ATAsb-008	1-4	2/24/2010	1245	SO	X	X	X	X	X	X	X									4	
ATASB-008-5135-SO	ATAsb-008	4-7	2/24/2010	1250	SO	X	X	X	X	X	X	X									4	**RUSH 5 day TAT**
ATASB-009-5137-SO	ATAsb-009	0-1	2/24/2010	1325	SO	X	X														2	
ATASB-009-5138-SO	ATAsb-009	1-4	2/24/2010	1350	SO	X	X														2	
ATASB-009-5139-SO	ATAsb-009	4-7	2/24/2010	1355	SO	X	X														2	**RUSH 5 day TAT**
ATASB-009-6081-FD	ATAsb-009	4-7	2/24/2010	1355	SO	X	X														2	
ATASB-010-5141-SO	ATAsb-010	0-1	2/24/2010	0822	SO	X	X														4	**MS/MSD**
ATASB-010-5142-SO	ATAsb-010	1-4	2/24/2010	0900	SO	X	X														2	
ATASB-010-5143-SO	ATAsb-010	4-7	2/24/2010	0923	SO	X	X														2	**RUSH 5 day TAT**
ATASB-011-5145-SO	ATAsb-011	0-1	2/24/2010	1000	SO	X	X														2	
ATASB-011-5146-SO	ATAsb-011	1-4	2/24/2010	1024	SO	X	X														2	
ATASB-011-5147-SO	ATAsb-011	4-7	2/24/2010	1045	SO	X	X														2	**RUSH 5 day TAT**

Total Number of Containers: 42
Cooler Temperature:
Cooler ID: 1 COOLER + 2 BOXES
FEDEX NUMBER: NA

Signature: RSprinzl	Date: 2/25/10	Received by: Lance Hush	Date: 2-25-10
Printed Name: RichSprinzl	Time: 0930	Signature: LANCE HERSHMAN	Time: 10:20
Company: SAIC		Printed Name: TAN CANTON	
		Company	
Relinquished by: Lance Hershman	Date: 2/25/10	Received by: Matthew-Jones	Date: 25 FEB 2010
Signature: LANCE HERSHMAN	Time: 11:15	Signature: M A FERREL	Time: 1115
Printed Name: TAN CANTON		Printed Name: TEST AMERICA	
Company		Company	

1 6020/7471A
2 8330B
3 3540C/3541/8270C
4 Nitroguanidine:8330 Mod/8332 Mod; Nitrocellulose:9056 Mod/353.2
5 8260B/5021
6 3540C/3541C/8081A
7 3540C/3541C/8082
8 8270C (low level PAHs)
9 600/R-93/116
10 USACE EM1110-2-1906 App II
11 ASTM D5057
12 ASTM D2216
13 EPA 415.1 Mod or SW-846, 9060A Mod or Walkley-Black
14 ASTM D422
15 ASTM D5084/2434

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 400250453
North Canton Facility

Client SAIC Project RVAAP By: Matthew Jerrell
Cooler Received on 25 FEB 2010 Opened on 25 FEB 2010 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # BACK Multiple Coolers ☒ Foam Box ☐ Client Cooler ☒ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 4 Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other PLASTIC BAG
6. Cooler temperature upon receipt BACK °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 121709-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN$/*NaOH.* What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
~~177~~	1.2	IR	WET ICE
184	0.8	↓	↓

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMS VOLATILE DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B250453

Extraction: XXA15QKWA

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	ATASB-008-5135-SO	102	95	110	100	00
02	METHOD BLK. LV6FR1AA	95	94	99	94	00
03	LCS LV6FR1AC	96	101	101	97	00
04	LCSD LV6FR1AD	90	101	104	94	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(61-130)
SRG02	= Toluene-d8	(85-115)
SRG03	= 4-Bromofluorobenzene	(85-120)
SRG04	= Dibromofluoromethane	(59-138)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AC
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	57	113	65- 135	
Trichloroethene	50	51	102	75- 125	
Benzene	50	51	102	75- 125	
Toluene	50	52	105	70- 125	
Chlorobenzene	50	51	101	75- 125	
Acetone	50	62	125	20- 160	
Bromodichloromethane	50	53	106	70- 130	
Bromoform	50	55	110	55- 135	
Bromomethane	50	51	102	30- 160	
2-Butanone	50	47	93	30- 160	
Bromochloromethane	50	52	104	70- 125	
Carbon disulfide	50	55	109	45- 160	
Carbon tetrachloride	50	67	134	65- 135	
Chloroethane	50	47	94	40- 155	
Chloroform	50	52	104	70- 125	
Chloromethane	50	41	81	50- 130	
1,2-Dibromoethane	50	52	103	70- 125	
1,1-Dichloroethane	50	54	108	75- 125	
1,2-Dichloroethane	50	51	103	70- 135	
1,2-Dichloroethene (total	100	110	109	66- 137	
1,2-Dichloropropane	50	50	100	70- 120	
cis-1,3-Dichloropropene	50	50	99	70- 125	
trans-1,3-Dichloropropene	50	50	101	65- 125	
Ethylbenzene	50	55	110	75- 125	
2-Hexanone	50	52	104	45- 145	
Methylene chloride	50	52	105	55- 140	
4-Methyl-2-pentanone	50	51	101	45- 145	
Styrene	50	56	111	75- 125	
1,1,2,2-Tetrachloroethane	50	52	103	55- 130	
Tetrachloroethene	50	52	104	65- 140	
1,1,2-Trichloroethane	50	50	101	60- 125	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AC
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1,1-Trichloroethane	50	58	115	70- 135	
Xylenes (total)	150	170	113	75- 125	
Vinyl chloride	50	47	93	60- 125	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 34 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AD
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	56	111	65- 135	
Trichloroethene	50	50	101	75- 125	
Benzene	50	50	100	75- 125	
Toluene	50	53	107	70- 125	
Chlorobenzene	50	51	102	75- 125	
Acetone	50	61	121	20- 160	
Bromodichloromethane	50	51	102	70- 130	
Bromoform	50	52	105	55- 135	
Bromomethane	50	51	102	30- 160	
2-Butanone	50	43	87	30- 160	
Bromochloromethane	50	50	100	70- 125	
Carbon disulfide	50	55	109	45- 160	
Carbon tetrachloride	50	65	131	65- 135	
Chloroethane	50	47	94	40- 155	
Chloroform	50	50	101	70- 125	
Chloromethane	50	41	83	50- 130	
1,2-Dibromoethane	50	51	102	70- 125	
1,1-Dichloroethane	50	53	107	75- 125	
1,2-Dichloroethane	50	50	99	70- 135	
1,2-Dichloroethene (total	100	110	107	66- 137	
1,2-Dichloropropane	50	49	99	70- 120	
cis-1,3-Dichloropropene	50	48	95	70- 125	
trans-1,3-Dichloropropene	50	50	100	65- 125	
Ethylbenzene	50	55	110	75- 125	
2-Hexanone	50	48	95	45- 145	
Methylene chloride	50	52	104	55- 140	
4-Methyl-2-pentanone	50	46	92	45- 145	
Styrene	50	55	110	75- 125	
1,1,2,2-Tetrachloroethane	50	50	99	55- 130	
Tetrachloroethene	50	52	105	65- 140	
1,1,2-Trichloroethane	50	49	98	60- 125	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AD
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1,1-Trichloroethane	50	57	114	70- 135	
Xylenes (total)	150	170	114	75- 125	
Vinyl chloride	50	47	94	60- 125	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 34 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV6FR1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN — SDG Number:

Lab File ID: LV6FR1AA. — Lot Number: A0B250453

Date Analyzed: 02/26/10 — Time Analyzed: 13:41

Matrix: SOLID — Date Extracted:02/26/10

GC Column: DB624 ID: .18 — Extraction Method: 5030B

Instrument ID: UX14 — Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ATASB-008-5135-SO	LV3JM1AC	148229.D	02/26/10	17:18
02	CHECK SAMPLE	LV6FR1AC C	LV6FR1AC.	02/26/10	12:36
03	DUPLICATE CHECK	LV6FR1AD L	LV6FR1AD.	02/26/10	12:57
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250453

Lab File ID: BFB14310 BFB Injection Date: 01/14/10

Instrument ID: A3UX14 BFB Injection Time: 1000

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	44.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	84.8
175	5.0 - 9.0% of mass 174	6.0 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	81.7 (96.4)1
177	5.0 - 9.0% of mass 176	5.4 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	147352	01/14/10	1045
02	VSTD100	500NG-IC	147353	01/14/10	1107
03	VSTD050	250NG-IC	147354	01/14/10	1129
04	VSTD020	100NG-IC	147355	01/14/10	1151
05	VSTD010	50NG-IC	147356	01/14/10	1214
06	VSTD005	25NG-IC	147357	01/14/10	1236
07	VSTD002	10NG-IC	147358	01/14/10	1259
08	VSTD001	5NG-IC	147359	01/14/10	1321
09	VSTD200	1000NG-BMIC	147362	01/14/10	1430
10	VSTD100	500NG-BMIC	147363	01/14/10	1453
11	VSTD050	250NG-BMIC	147364	01/14/10	1516
12	VSTD020	100NG-BMIC	147365	01/14/10	1539
13	VSTD010	50NG-BMIC	147366	01/14/10	1603
14	VSTD005	25NG-BMIC	147367	01/14/10	1627
15	VSTD002	10NG-BMIC	147368	01/14/10	1650
16	VSTD001	5NG-BMIC	147369	01/14/10	1714
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250453

Lab File ID: BFB14339 BFB Injection Date: 02/26/10

Instrument ID: A3UX14 BFB Injection Time: 1048

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	43.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.4 (0.4)1
174	50.0 - 120.0% of mass 95	85.9
175	5.0 - 9.0% of mass 174	6.0 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.1 (96.7)1
177	5.0 - 9.0% of mass 176	5.4 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	148213	02/26/10	1130
02	LV6FRCHK	LV6FR1AC	LV6FR1AC	02/26/10	1236
03	LV6FRCKDUP	LV6FR1AD	LV6FR1AD	02/26/10	1257
04	LV6FRBLK	LV6FR1AA	LV6FR1AA	02/26/10	1341
05	ATASB-008-51	LV3JM1AC	148229	02/26/10	1718
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250453

Lab File ID (Standard): 148213 Date Analyzed: 02/26/10

Instrument ID: A3UX14 Time Analyzed: 1130

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

	IS1(CBZ) AREA	#	IS1(CBZ) RT	IS2(DCB) AREA	#	IS2(DCB) RT	IS3 AREA	#	IS3 RT
12 HOUR STD	965181		9.33	531218		11.31	1312011		6.60
UPPER LIMIT	1930362		9.83	1062436		11.81	2624022		7.10
LOWER LIMIT	482591		8.83	265609		10.81	656006		6.10
EPA SAMPLE NO.									
01 LV6FRCHK	949703		9.33	535712		11.31	1286060		6.60
02 LV6FRCKDUP	961680		9.33	524167		11.31	1347350		6.60
03 LV6FRBLK	933757		9.33	498117		11.31	1293874		6.60
04 ATASB-008-51	804967		9.33	355784		11.31	1128474		6.60
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

TestAmerica
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SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

GC/MS Volatiles

Lot-Sample #...: A0B250453-002 **Work Order #...:** LV3JM1AC **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL
% Moisture.....: 5.9 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	ND	5.3	ug/kg	0.39
Chlorobenzene	ND	5.3	ug/kg	0.35
Acetone	ND	21	ug/kg	6.7
Benzene	ND	5.3	ug/kg	0.24
Bromochloromethane	ND	5.3	ug/kg	0.75
Bromodichloromethane	ND	5.3	ug/kg	0.30
Bromoform	ND	5.3	ug/kg	0.35
Bromomethane	ND	5.3	ug/kg	0.57
2-Butanone	ND	21	ug/kg	1.5
Carbon disulfide	ND	5.3	ug/kg	0.47
Dibromochloromethane	ND	5.3	ug/kg	0.58
Chloroethane	ND	5.3	ug/kg	0.91
Chloroform	ND	5.3	ug/kg	0.31
Chloromethane	ND	5.3	ug/kg	0.44
1,2-Dibromoethane	ND	5.3	ug/kg	0.53
1,1-Dichloroethane	ND	5.3	ug/kg	0.38
1,2-Dichloroethane	ND	5.3	ug/kg	0.36
1,1-Dichloroethene	ND	5.3	ug/kg	0.55
1,2-Dichloroethene (total)	ND	5.3	ug/kg	0.82
1,2-Dichloropropane	ND	5.3	ug/kg	0.73
cis-1,3-Dichloropropene	ND	5.3	ug/kg	0.36
trans-1,3-Dichloropropene	ND	5.3	ug/kg	0.57
Ethylbenzene	ND	5.3	ug/kg	0.28
2-Hexanone	ND	21	ug/kg	0.67
Methylene chloride	**0.80 J**	**5.3**	**ug/kg**	**0.71**
4-Methyl-2-pentanone	ND	21	ug/kg	0.57
Styrene	ND	5.3	ug/kg	0.16
1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	0.36
Tetrachloroethene	ND	5.3	ug/kg	0.55
Toluene	**0.50 J**	**5.3**	**ug/kg**	**0.29**
1,1,1-Trichloroethane	ND	5.3	ug/kg	0.60
1,1,2-Trichloroethane	ND	5.3	ug/kg	0.41
Trichloroethene	ND	5.3	ug/kg	0.45
Vinyl chloride	ND	5.3	ug/kg	0.41
Xylenes (total)	ND	11	ug/kg	0.71

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

GC/MS Volatiles

Lot-Sample #...: A0B250453-002 **Work Order #...:** LV3JM1AC **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 130)
Toluene-d8	95	(85 - 115)
4-Bromofluorobenzene	110	(85 - 120)
Dibromofluoromethane	100	(59 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D
Report Date: 01-Mar-2010 09:23

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D
Lab Smp Id: LV3JM1AC Client Smp ID: ATASB-008-5135-SO
Inj Date : 26-FEB-2010 17:18
Operator : 2807 Inst ID: a3ux14.i
Smp Info : LV3JM1AC,5G/5ML
Misc Info : R00226A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1	Fluorobenzene	96	6.599	6.599	(1.000)	1128474	250.000	
* 2	Chlorobenzene-d5	117	9.333	9.333	(1.000)	804967	250.000	
* 3	1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	355784	250.000	
$ 4	Dibromofluoromethane	113	5.901	5.901	(0.894)	310299	249.587	49.917
$ 5	1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	324255	254.385	50.877
$ 6	Toluene-d8	98	8.090	8.090	(0.867)	1041702	238.712	47.742
$ 7	Bromofluorobenzene	95	10.327	10.327	(0.913)	363823	275.787	55.157
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	Compound Not Detected.					
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	2.943	2.931	(0.446)	25715	10.3220	2.064
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Freon-113	151	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	3.511	3.499	(0.532)	29987	3.77556	0.7551

22 Acetonitrile	41	3.298	3.286 (0.500)	2817	18.8181	3.764
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D
Report Date: 01-Mar-2010 09:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	8.149	8.138	(0.873)	11247	2.36557	0.4731
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	9.546	9.557	(1.023)	4136	2.02965	0.4059
M	63 Xylenes (total)	106				5542	2.76192	0.5524
	64 Xylene-o	106	9.889	9.889	(1.060)	1406	0.73227	0.1464
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D
Report Date: 01-Mar-2010 09:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	14.042	14.054	(1.242)	376	11.8792	2.376
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	6.978	6.954	(1.057)	460	68.8450	13.769
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.960	5.960	(0.903)	5203	1.96387	0.3928
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D
Report Date: 01-Mar-2010 09:23

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 148229.D
Lab Smp Id: LV3JM1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807

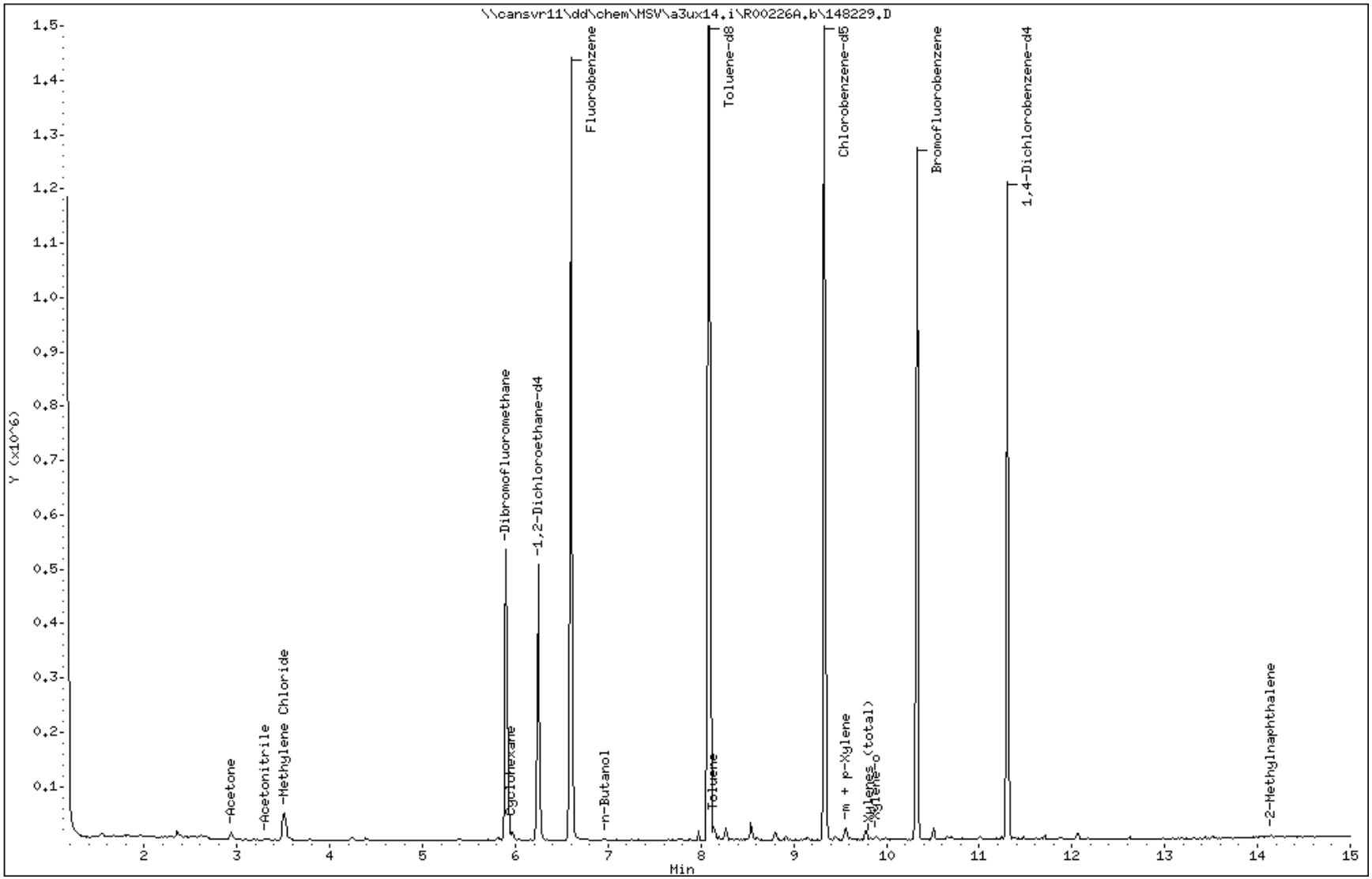
Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Client Smp ID: ATASB-008-5135-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1128474	-13.99
2 Chlorobenzene-d5	965181	482591	1930362	804967	-16.60
3 1,4-Dichlorobenze	531218	265609	1062436	355784	-33.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D
Date : 26-FEB-2010 17:18
Client ID: ATASB-008-5135-SO
Instrument: a3ux14.i
Sample Info: LV3JM1AC,5G/5ML
Purge Volume: 5.0
Operator: 2807
Column phase: DB624
Column diameter: 0.18



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Date : 26-FEB-2010 17:18

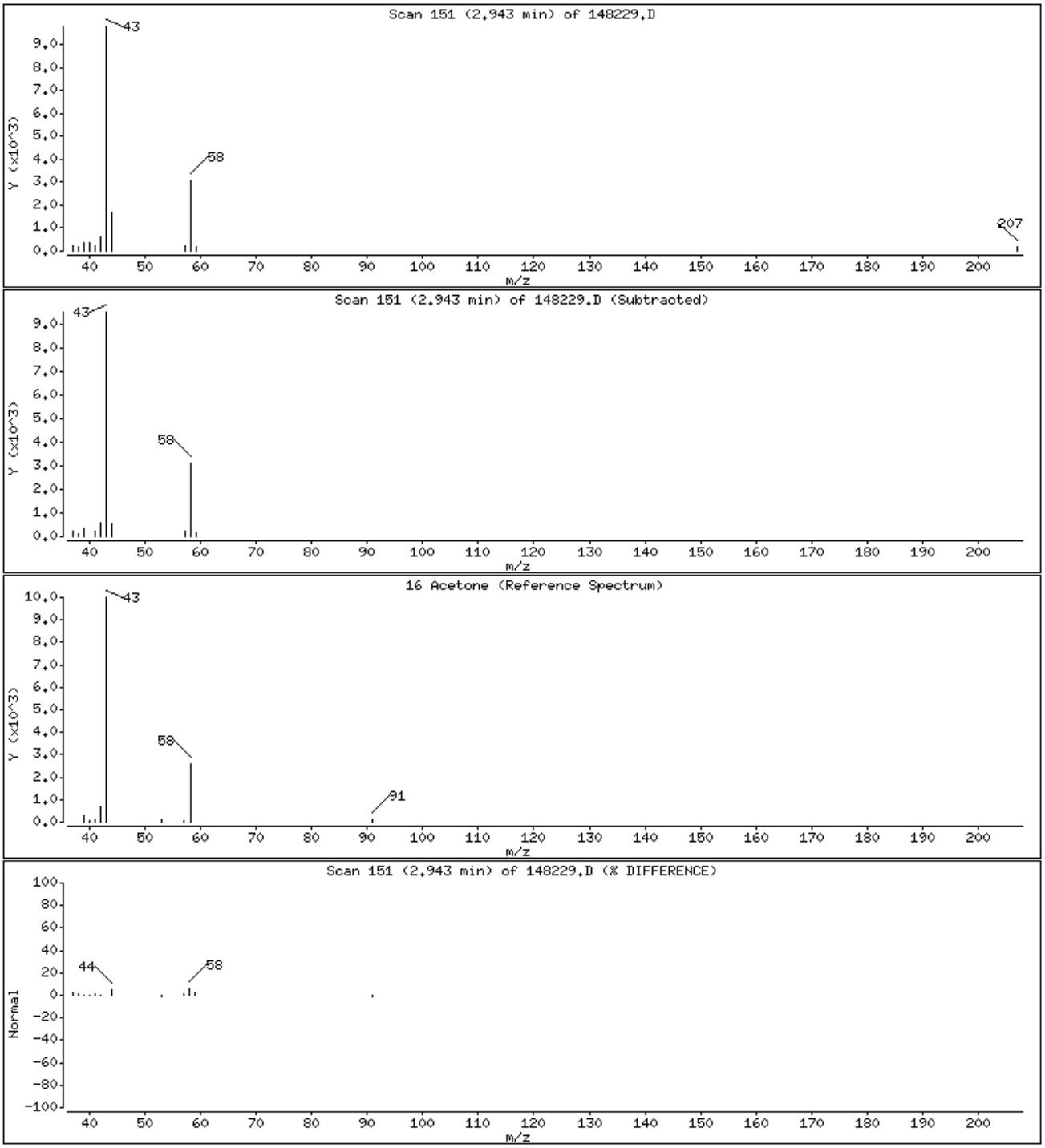
Client ID: ATASB-008-5135-SO Instrument: a3ux14.i

Sample Info: LV3JM1AC,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 2.064 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D

Date : 26-FEB-2010 17:18

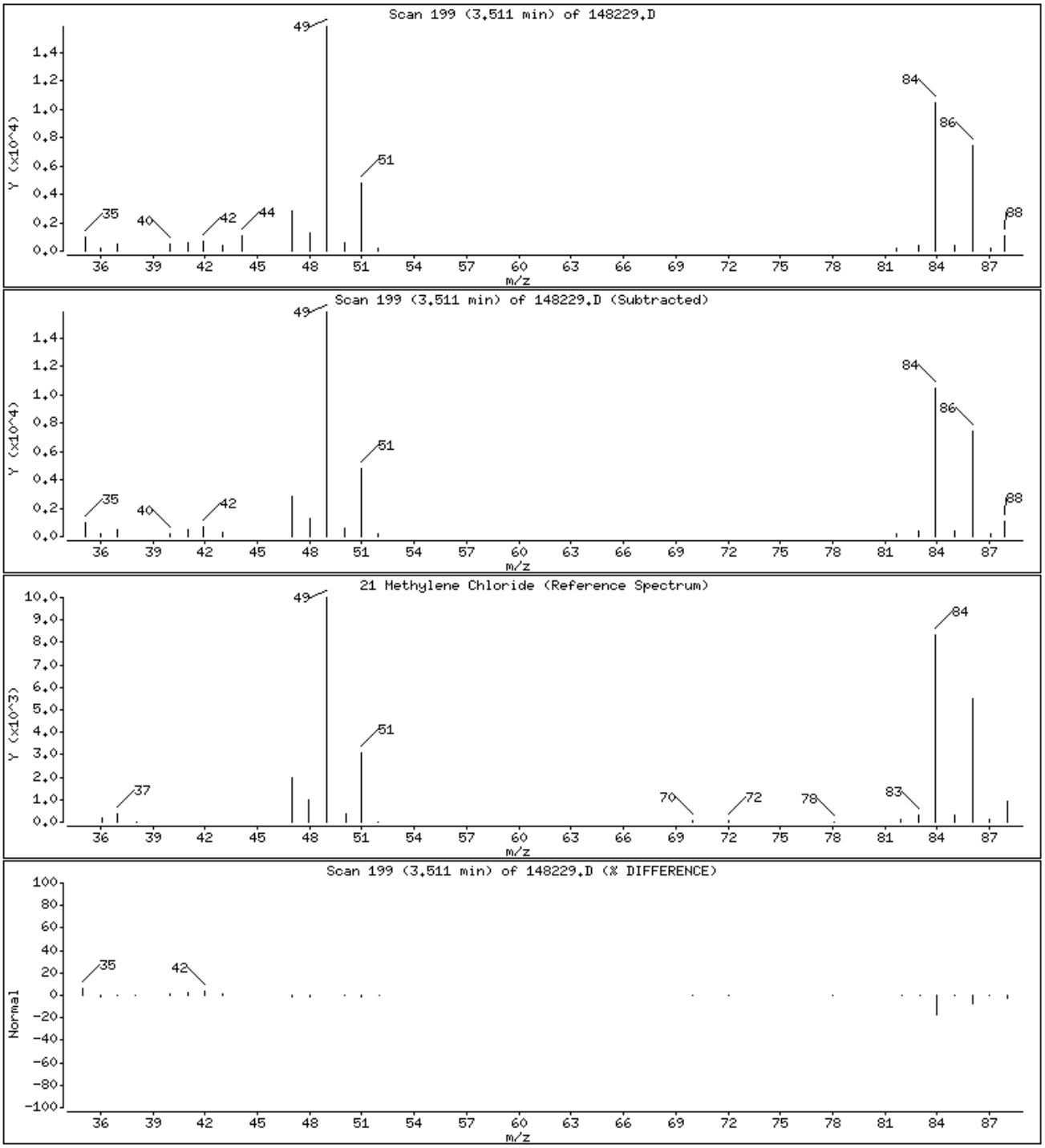
Client ID: ATASB-008-5135-SO | Instrument: a3ux14.i

Sample Info: LV3JM1AC,5G/5ML

Purge Volume: 5.0 | Operator: 2807

Column phase: DB624 | Column diameter: 0.18

21 Methylene Chloride | Concentration: 0.7551 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D

Date : 26-FEB-2010 17:18

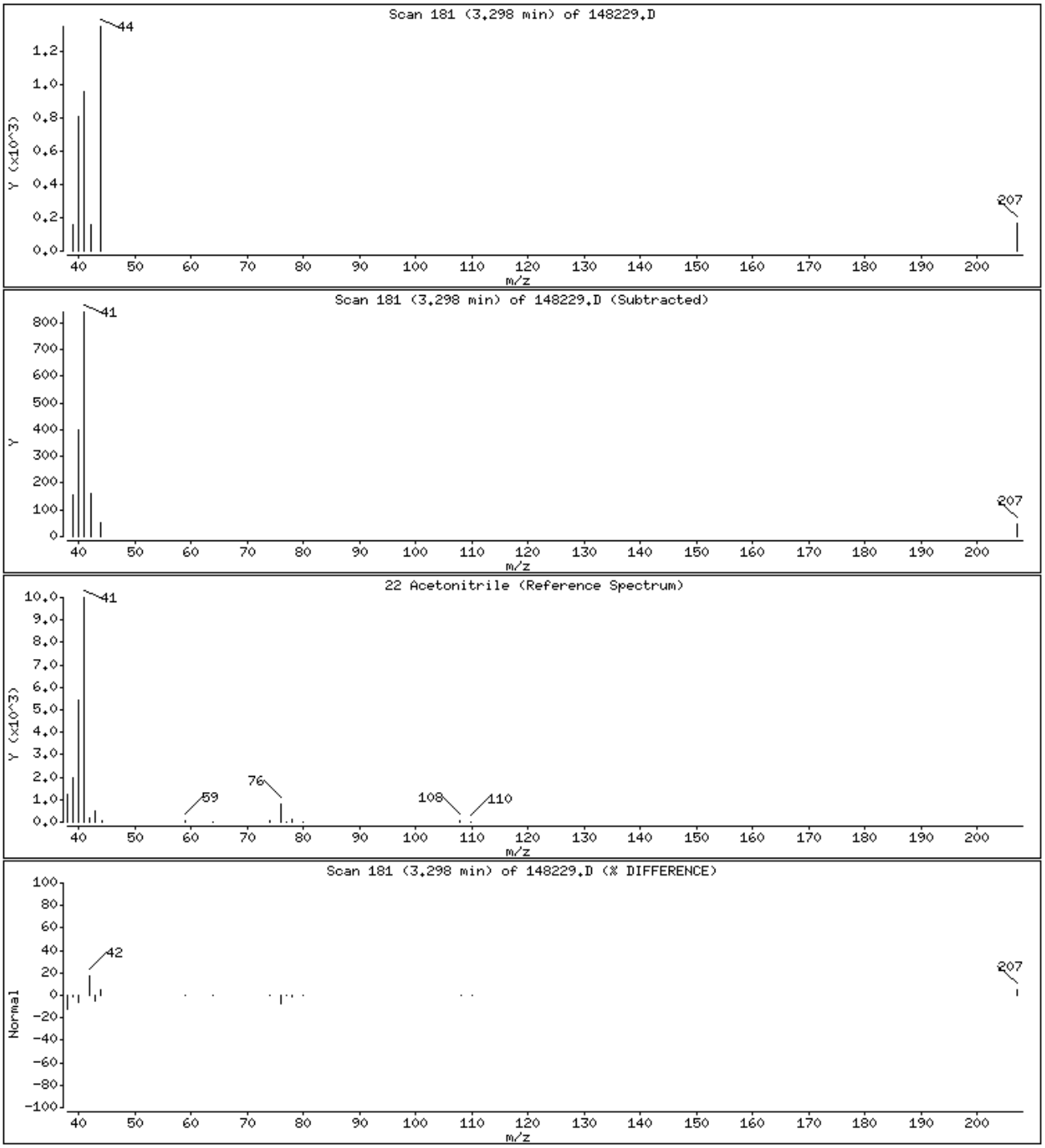
Client ID: ATASB-008-5135-SO | Instrument: a3ux14.i

Sample Info: LV3JM1AC,5G/5ML

Purge Volume: 5.0 | Operator: 2807

Column phase: DB624 | Column diameter: 0.18

22 Acetonitrile | Concentration: 3.764 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D

Date : 26-FEB-2010 17:18

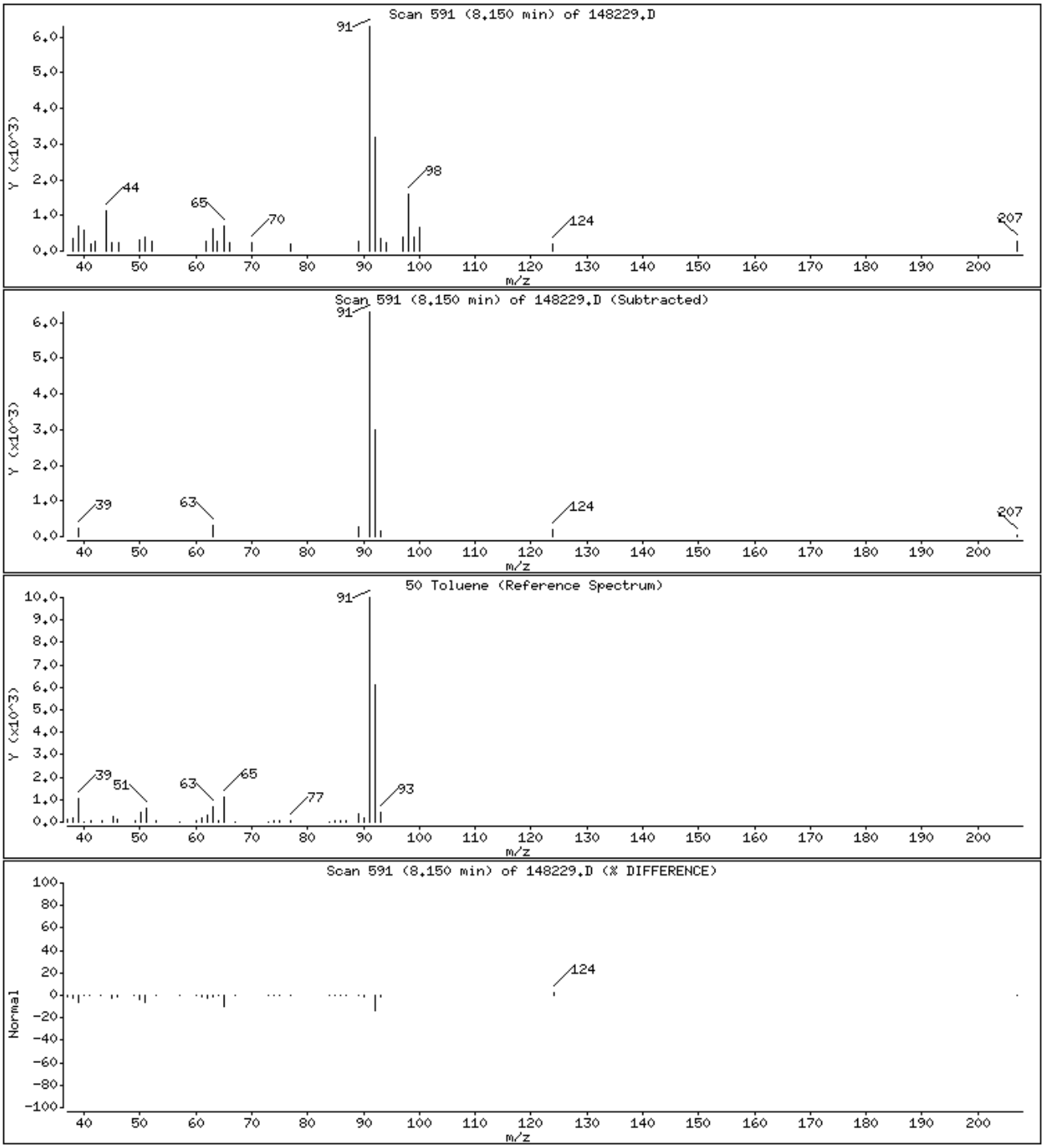
Client ID: ATASB-008-5135-SO | Instrument: a3ux14.i

Sample Info: LV3JM1AC,5G/5ML

Purge Volume: 5.0 | Operator: 2807

Column phase: DB624 | Column diameter: 0.18

50 Toluene | Concentration: 0.4731 UG/KG



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Date : 26-FEB-2010 17:18

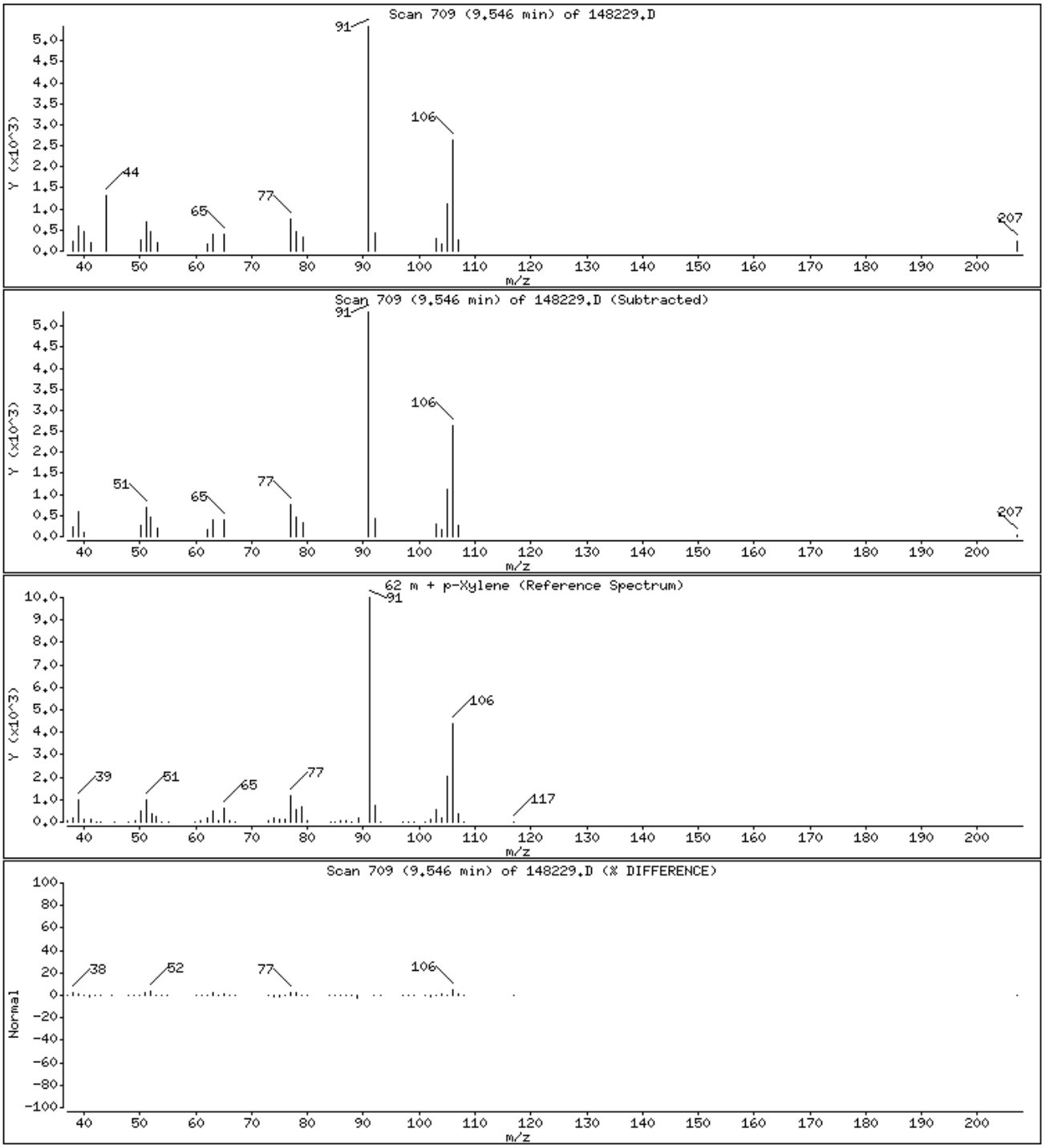
Client ID: ATASB-008-5135-SO | Instrument: a3ux14.i

Sample Info: LV3JM1AC,5G/5ML

Purge Volume: 5.0 | Operator: 2807

Column phase: DB624 | Column diameter: 0.18

62 m + p-Xylene | Concentration: 0.4059 UG/KG



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Date : 26-FEB-2010 17:18

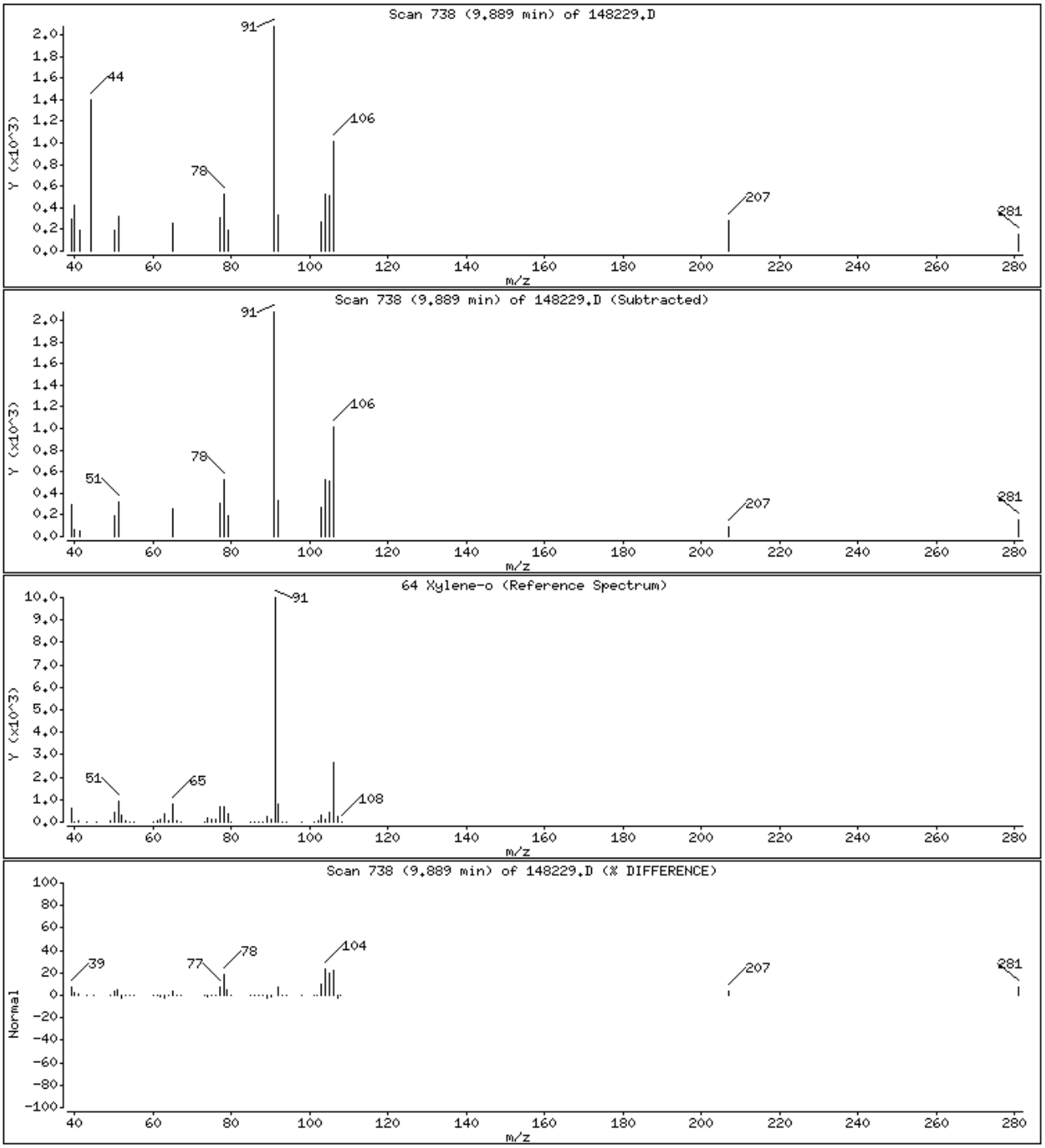
Client ID: ATASB-008-5135-SO | Instrument: a3ux14.i

Sample Info: LV3JM1AC,5G/5ML

Purge Volume: 5.0 | Operator: 2807

Column phase: DB624 | Column diameter: 0.18

64 Xylene-o | Concentration: 0.1464 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D

Date : 26-FEB-2010 17:18

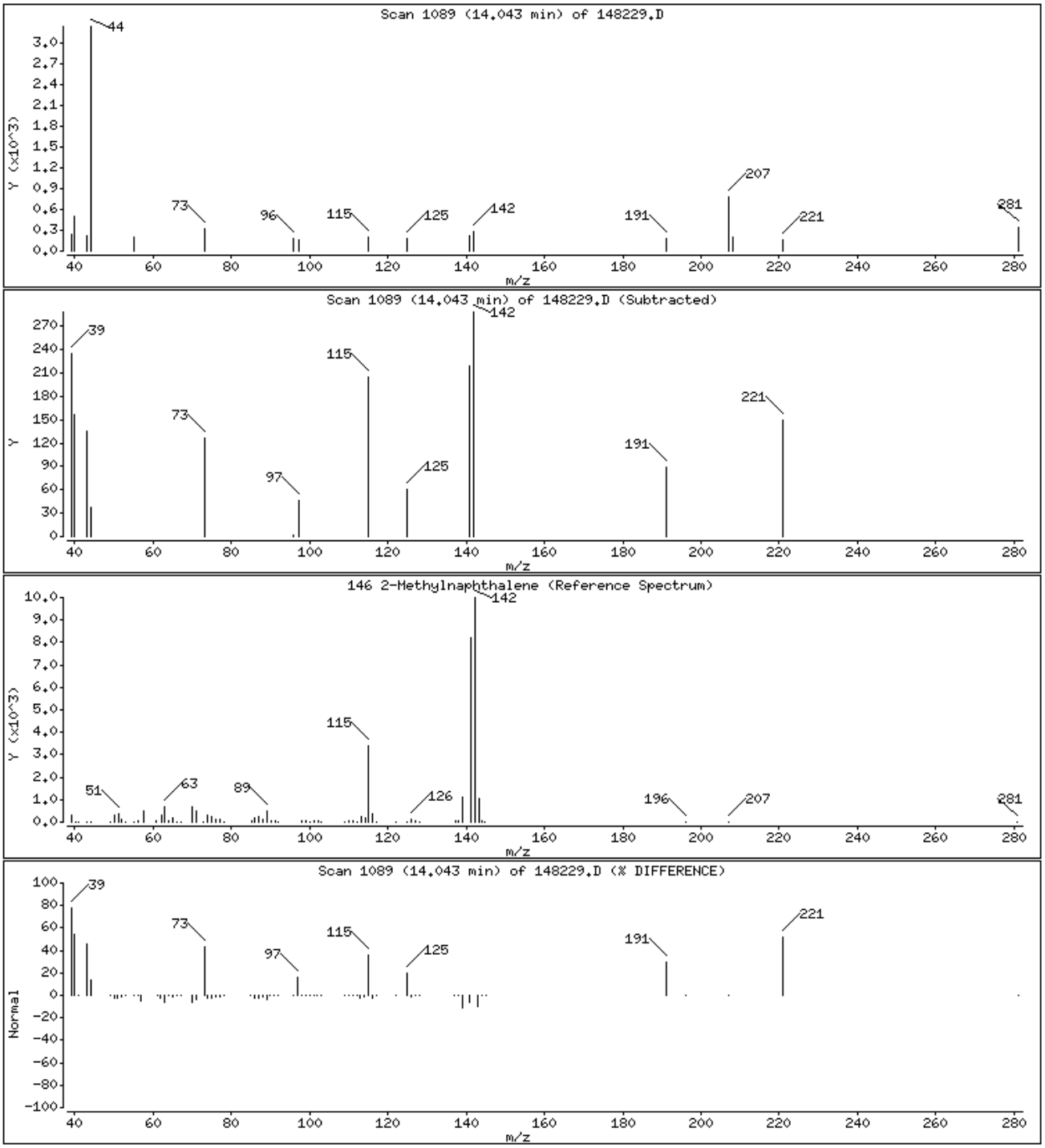
Client ID: ATASB-008-5135-SO | Instrument: a3ux14.i

Sample Info: LV3JM1AC,5G/5ML

Purge Volume: 5.0 | Operator: 2807

Column phase: DB624 | Column diameter: 0.18

146 2-Methylnaphthalene | Concentration: 2.376 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D

Date : 26-FEB-2010 17:18

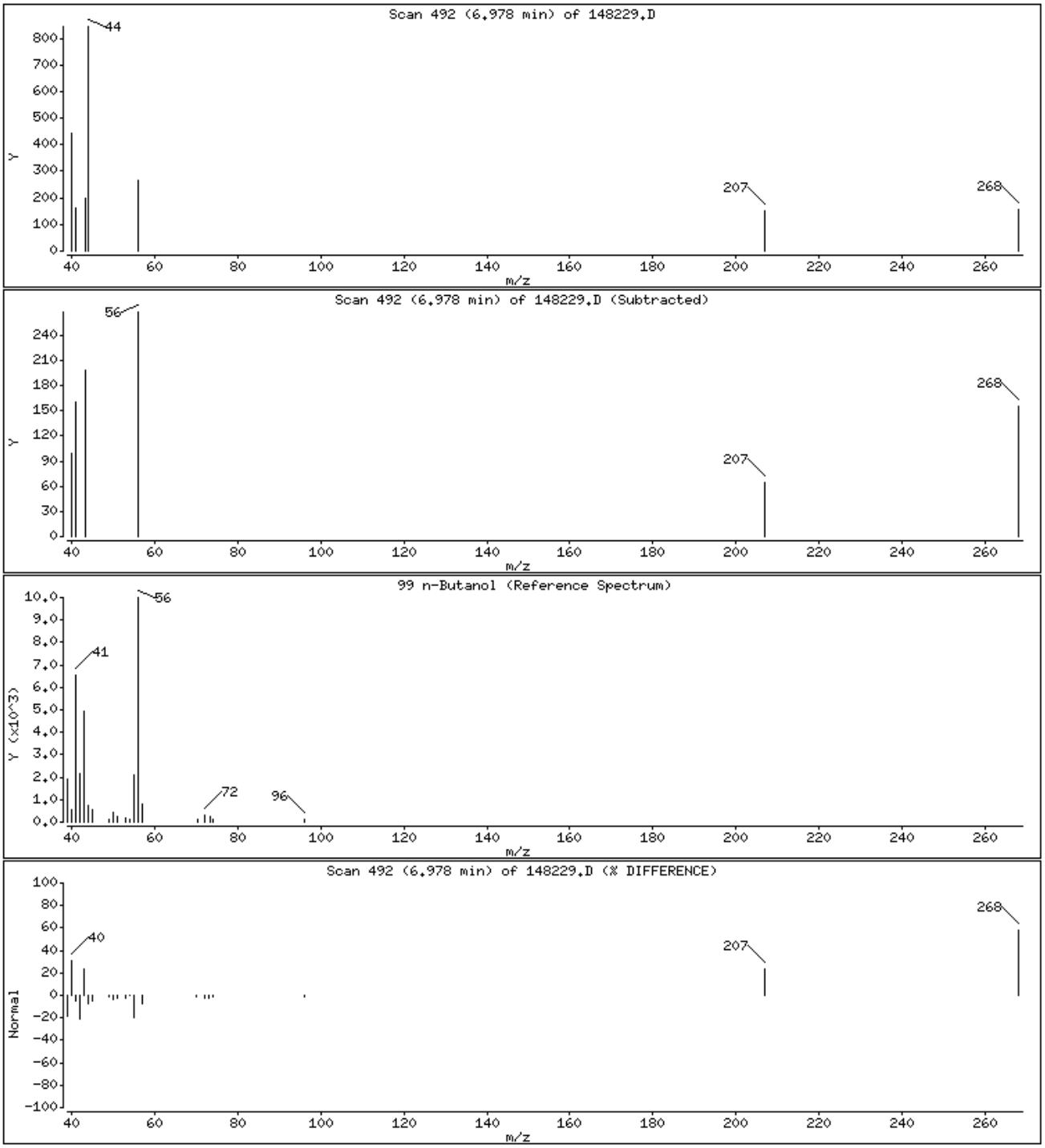
Client ID: ATASB-008-5135-SO Instrument: a3ux14.i

Sample Info: LV3JM1AC,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

99 n-Butanol Concentration: 13.769 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148229.D

Date : 26-FEB-2010 17:18

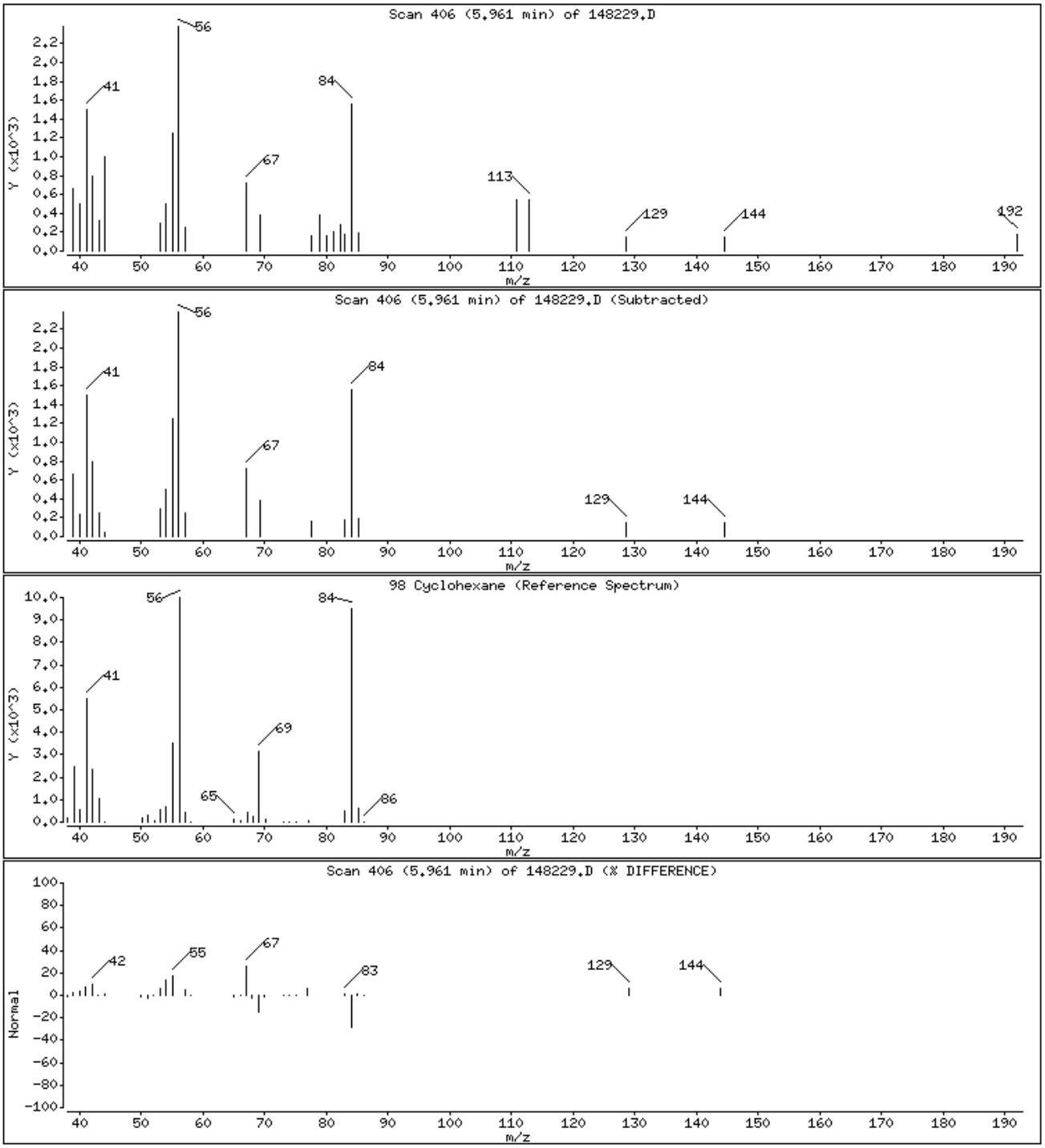
Client ID: ATASB-008-5135-SO Instrument: a3ux14.i

Sample Info: LV3JM1AC,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

98 Cyclohexane Concentration: 0.3928 UG/KG



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 15-Jan-2010 11:27

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Start Cal Date: 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
14-JAN-2010 17:14	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
08-JAN-2010 18:18	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147289.D
14-JAN-2010 13:21	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Cal Level: 2 , Cal Amount: 10.00000		
14-JAN-2010 16:50	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
08-JAN-2010 17:55	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147288.D
14-JAN-2010 12:59	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Cal Level: 3 , Cal Amount: 25.00000		
14-JAN-2010 16:27	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
08-JAN-2010 17:33	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147287.D
14-JAN-2010 12:36	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Cal Level: 4 , Cal Amount: 50.00000		
14-JAN-2010 16:03	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
08-JAN-2010 17:11	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147286.D
14-JAN-2010 12:14	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Cal Level: 5 , Cal Amount: 100.00000		
14-JAN-2010 15:39	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
08-JAN-2010 16:49	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147285.D

14-JAN-2010 11:51	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D		

Cal Level: 6 , Cal Amount: 250.00000		
14-JAN-2010 15:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D		
08-JAN-2010 16:27	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147284.D		
14-JAN-2010 11:29	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D		

Cal Level: 7 , Cal Amount: 500.00000		
14-JAN-2010 14:53	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D		
08-JAN-2010 16:06	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147283.D		
14-JAN-2010 11:07	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D		

Cal Level: 8 , Cal Amount: 1000.00000		
14-JAN-2010 14:30	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D		
08-JAN-2010 15:44	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147282.D		
14-JAN-2010 10:45	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

14-JAN-2010 11:29	1-8260	
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14-JAN-2010 14:07	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147361.D		
14-JAN-2010 15:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D		
~~14-JAN-2010 14:07~~	~~3-IX~~	
~~\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147361.D~~		

1-15-10

Report Date : 15-Jan-2010 11:21

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Level 8: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
8 Dichlorodifluoromethane	0.24512	0.22637	0.29312	0.26584	0.25836	0.22478		
	0.25377	0.25550					0.25286	8.687
9 Chloromethane	0.42760	0.36493	0.38632	0.37473	0.35555	0.33446		
	0.34515	0.33569					0.36556	8.489
10 Vinyl Chloride	0.26549	0.28334	0.29549	0.28345	0.28191	0.26248		
	0.26455	0.26910					0.27573	4.325
11 Bromomethane	0.16671	0.14740	0.14735	0.11780	0.13810	0.12513		
	0.12079	0.11372					0.13462	13.663
12 Chloroethane	0.19677	0.17979	0.17143	0.16587	0.15197	0.14043		
	0.13197	+++++					0.16260	13.966
13 Trichlorofluoromethane	0.23047	0.24528	0.27583	0.28521	0.27605	0.25898		
	0.27441	0.27809					0.26554	7.149
14 Dichlorofluoromethane	0.29538	0.25019	0.29271	0.24864	0.26333	0.25614		
	0.21871	0.22084					0.25574	11.125
15 Acrolein	0.03500	0.03646	0.03273	0.03061	0.03485	0.02713		
	0.03125	0.02333					0.03142	14.040

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Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	500.000 Level 7	1000.000 Level 8	RRF	% RSD
16 Acetone	+++++	+++++	0.15676	0.12459	0.10681	0.08897	0.08404	0.07046	0.10527	29.902
17 1,1-Dichloroethene	0.25543	0.22821	0.24875	0.24244	0.24031	0.22889	0.23230	0.23451	0.23886	4.072
18 Freon-113	0.15989	0.18326	0.19650	0.20474	0.19956	0.19157	0.19670	0.20241	0.19183	7.574
19 Iodomethane	0.41190	0.41853	0.41379	0.41730	0.39941	0.39424	0.39593	0.40575	0.40711	2.373
20 Carbon Disulfide	0.61213	0.67218	0.68222	0.69759	0.67790	0.68612	0.70728	0.73775	0.68415	5.231
21 Methylene Chloride	+++++	+++++	0.45689	0.37446	0.31259	0.26822	0.25845	0.25237	0.32050	25.272
22 Acetonitrile	+++++	0.04002	0.03499	0.03418	0.03425	0.03141	0.03048	0.02681	0.03316	12.507
23 Acrylonitrile	0.09873	0.10132	0.09529	0.10049	0.10769	0.09823	0.09751	0.08789	0.09839	5.703
24 Methyl tert-butyl ether	0.53105	0.56003	0.58859	0.63771	0.65588	0.66764	0.67729	0.64640	0.62058	8.687
25 trans-1,2-Dichloroethene	0.30298	0.27861	0.28146	0.28115	0.27412	0.26566	0.26968	0.26535	0.27738	4.394
26 Hexane	0.06818	0.05919	0.06347	0.06206	0.06340	0.06360	0.06492	0.06727	0.06401	4.446

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
27 Vinyl acetate	0.27857	0.26576	0.27708	0.30336	0.33467	0.36377		
	0.36959	0.36730					0.32001	13.777
154 Vinyl Acetate**2nd**	+++++	+++++	0.02226	0.02595	0.02824	0.03177		
	0.03104	0.03181					0.02851	13.450
28 1,1-Dichloroethane	0.47614	0.50016	0.51634	0.50469	0.49915	0.48570		
	0.49304	0.49547					0.49634	2.438
29 tert-Butyl Alcohol	0.02185	0.02007	0.02067	0.02240	0.02417	0.02556		
	0.02534	0.02084					0.02261	9.533
30 2-Butanone	0.15894	0.13321	0.11448	0.12355	0.12907	0.12850		
	0.12419	0.11292					0.12811	11.158
M 31 1,2-Dichloroethene (total)	0.28719	0.27849	0.28402	0.28809	0.28260	0.27376		
	0.27838	0.27381					0.28079	1.983
32 cis-1,2-dichloroethene	0.27139	0.27837	0.28658	0.29502	0.29109	0.28186		
	0.28707	0.28227					0.28421	2.612
33 2,2-Dichloropropane	0.18179	0.17671	0.18243	0.19872	0.19625	0.20171		
	0.20572	0.21025					0.19420	6.366
34 Bromochloromethane	0.15515	0.13795	0.13821	0.13906	0.13595	0.13450		
	0.13437	0.12992					0.13814	5.405
35 Chloroform	0.47045	0.44710	0.45697	0.46723	0.45483	0.44638		
	0.44744	0.44930					0.45496	2.066
36 Tetrahydrofuran	+++++	0.09325	0.08510	0.08056	0.08038	0.08218		
	0.08397	0.07542					0.08298	6.626

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Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
37 1,1,1-Trichloroethane	0.29588	0.31020	0.31886	0.35046	0.32864	0.34089			
	0.33660	0.35024					0.32897	5.930	
38 1,1-Dichloropropene	0.28692	0.30509	0.35013	0.35883	0.35804	0.35895			
	0.36427	0.37757					0.34497	9.154	
39 Carbon Tetrachloride	0.22410	0.27735	0.28113	0.30513	0.29106	0.29754			
	0.30178	0.30933					0.28593	9.577	
40 1,2-Dichloroethane	0.35141	0.32766	0.35354	0.33131	0.34294	0.33764			
	0.32608	0.32325					0.33673	3.450	
41 Benzene	1.08331	1.12270	1.09023	1.09541	1.05254	1.05927			
	1.06113	1.08007					1.08058	2.132	
42 Trichloroethene	0.29034	0.30732	0.29234	0.30670	0.29195	0.29551			
	0.29506	0.30332					0.29782	2.315	
43 1,2-Dichloropropane	0.25237	0.26526	0.26978	0.27227	0.27169	0.28057			
	0.27194	0.28181					0.27071	3.398	
44 1,4-Dioxane	0.00189	0.00177	0.00208	0.00233	0.00255	0.00261			
	0.00244	0.00220					0.00223	13.733	<-
45 Dibromomethane	0.15115	0.12624	0.14050	0.13878	0.13553	0.14251			
	0.13416	0.13402					0.13786	5.307	
46 Bromodichloromethane	0.24738	0.25905	0.26074	0.28159	0.28408	0.29465			
	0.29899	0.30915					0.27945	7.788	
47 2-Chloroethyl vinyl ether	0.06646	0.07261	0.08107	0.09513	0.11034	0.13041			
	0.12583	0.13323					0.10188	26.316	

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Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
48 cis-1,3-Dichloropropene	+++++	+++++	0.27586	0.31639	0.33554	0.37475		
	0.36803	0.39164					0.34370	12.528
49 4-Methyl-2-pentanone	+++++	0.23984	0.25432	0.28947	0.33068	0.34275		
	0.34389	0.31238					0.30190	13.949
50 Toluene	1.38045	1.38434	1.45659	1.46607	1.47019	1.53313		
	1.52477	1.59727					1.47660	5.015
51 trans-1,3-Dichloropropene	+++++	+++++	0.31461	0.34297	0.36832	0.42993		
	0.42615	0.44640					0.38806	13.841
52 Ethyl Methacrylate	0.21587	0.21635	0.25597	0.28150	0.32668	0.38676		
	0.38948	0.38737					0.30750	24.518
53 1,1,2-Trichloroethane	0.27652	0.24754	0.27102	0.24977	0.26690	0.27474		
	0.25968	0.26111					0.26341	4.127
54 1,3-Dichloropropane	0.41224	0.41925	0.43850	0.43824	0.44711	0.47052		
	0.45056	0.45409					0.44131	4.269
55 Tetrachloroethene	0.29512	0.30909	0.32584	0.31806	0.30660	0.30873		
	0.31207	0.31840					0.31174	2.975
56 2-Hexanone	+++++	0.16511	0.17438	0.19153	0.22577	0.24702		
	0.23340	0.21874					0.20799	15.000
57 Dibromochloromethane	0.22968	0.23431	0.24259	0.27396	0.28218	0.30742		
	0.30938	0.32011					0.27496	13.099
58 1,2-Dibromoethane	0.26779	0.22456	0.23888	0.24547	0.26368	0.26991		
	0.26339	0.26091					0.25432	6.376

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Integrator : HP RTE
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Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
		500.000 Level 7	1000.000 Level 8						
	59 Chlorobenzene	1.07406	1.02899	1.00247	1.00614	0.99359	1.00884		
		0.98994	1.01551					1.01494	2.645
	60 1,1,1,2-Tetrachloroethane	0.28131	0.31373	0.30846	0.32857	0.33095	0.33565		
		0.33775	0.33875					0.32190	6.153
	61 Ethylbenzene	0.43458	0.49215	0.49804	0.53582	0.53723	0.56295		
		0.55878	0.56543					0.52312	8.681
	62 m + p-Xylene	0.51104	0.56573	0.62070	0.66725	0.66450	0.68289		
		0.67052	0.68039					0.63288	9.968
M	63 Xylenes (total)	0.51222	0.55693	0.60257	0.65173	0.65226	0.67007		
		0.65695	0.66280					0.62069	9.364
	64 Xylene-o	0.51458	0.53931	0.56631	0.62069	0.62779	0.64442		
		0.62980	0.62764					0.59632	8.223
	65 Styrene	+++++	0.71838	0.83322	0.92205	0.99485	1.05417		
		1.05543	1.05710					0.94789	13.855
	66 Bromoform	0.13896	0.14466	0.14074	0.16038	0.16891	0.18971		
		0.19284	0.19554					0.16647	14.392
	67 Isopropylbenzene	+++++	1.23184	1.49697	1.62185	1.67385	1.68068		
		1.73640	1.76109					1.60039	11.498
	68 1,1,2,2-Tetrachloroethane	0.57457	0.61928	0.57194	0.60385	0.62132	0.66412		
		0.63399	0.61696					0.61326	4.940
	69 1,4-Dichloro-2-butene	0.17621	0.16924	0.15831	0.18452	0.19355	0.21511		
		0.21145	0.21377					0.19027	11.451

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Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	500.000 Level 7	1000.000 Level 8	RRF	% RSD
70 1,2,3-Trichloropropane	0.17170	0.18316	0.17169	0.17403	0.17560	0.19019	0.17989	0.17552	0.17772	3.593
71 Bromobenzene	0.70970	0.71617	0.70245	0.71703	0.73838	0.77342	0.75106	0.78042	0.73608	4.036
72 n-Propylbenzene	+++++	+++++	0.72777	0.79541	0.85317	0.90389	0.89536	0.95944	0.85584	9.729
73 2-Chlorotoluene	0.55746	0.60105	0.67157	0.70880	0.74867	0.75615	0.74480	0.78166	0.69627	11.526
74 1,3,5-Trimethylbenzene	+++++	1.71952	2.11358	2.35330	2.50416	2.56582	2.57516	2.76084	2.37034	14.819
75 4-Chlorotoluene	0.63259	0.65758	0.73077	0.75635	0.76530	0.78784	0.75676	0.79422	0.73518	8.071
76 tert-Butylbenzene	+++++	1.65508	1.96567	2.13250	2.25770	2.39270	2.40302	2.55722	2.19484	13.987
77 1,2,4-Trimethylbenzene	+++++	1.73397	2.21612	2.42169	2.52345	2.60369	2.61878	2.81885	2.41951	14.664
78 sec-Butylbenzene	+++++	2.27366	2.94181	3.10114	3.21818	3.36225	3.48658	3.71171	3.15647	14.701
79 4-Isopropyltoluene	+++++	+++++	2.29990	2.48976	2.64117	2.77039	2.84030	3.05466	2.68270	9.952
80 1,3-Dichlorobenzene	1.39760	1.39536	1.36910	1.36814	1.38576	1.39827	1.39966	1.46646	1.39754	2.193

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Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
81 1,4-Dichlorobenzene	1.74236	1.47939	1.48759	1.42762	1.43281	1.41997			
	1.39725	1.47392					1.48261	7.402	
82 n-Butylbenzene	+++++	+++++	1.99169	2.14846	2.23892	2.41147			
	2.49525	2.68071					2.32775	10.742	
83 1,2-Dichlorobenzene	1.33193	1.33879	1.32606	1.29282	1.30517	1.28114			
	1.28168	1.31017					1.30847	1.709	
84 1,2-Dibromo-3-chloropropane	+++++	0.09136	0.09272	0.10001	0.10606	0.11309			
	0.11941	0.11819					0.10583	10.943	
85 1,2,4-Trichlorobenzene	0.73556	0.75799	0.76530	0.83332	0.85618	0.90598			
	0.94965	0.97001					0.84675	10.604	
86 Hexachlorobutadiene	0.51656	0.52155	0.51347	0.51454	0.54954	0.54564			
	0.58146	0.59957					0.54279	6.058	
87 Naphthalene	+++++	+++++	1.45699	1.76735	2.01575	2.11579			
	2.19283	2.14381					1.94875	14.600	
88 1,2,3-Trichlorobenzene	0.79204	0.77832	0.75896	0.81610	0.88582	0.87696			
	0.87713	0.88742					0.83409	6.417	
89 Ethyl Ether	0.22485	0.20658	0.21102	0.21793	0.21062	0.20849			
	0.20188	0.19532					0.20958	4.339	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
91 3-Chloropropene	0.12004	0.11312	0.13322	0.12820	0.13044	0.13849			
	0.13535	0.14033					0.12990	7.160	

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Start Cal Date : 08-JAN-2010 12:27
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Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
92 Isopropyl Ether	0.18891	0.18586	0.22686	0.24347	0.23727	0.23925			
	0.23203	0.22237					0.22200	10.097	
93 2-Chloro-1,3-butadiene	0.27829	0.25023	0.31281	0.33396	0.33597	0.36927			
	0.37475	0.39179					0.33088	14.780	
94 Propionitrile	0.04323	0.03827	0.03760	0.04128	0.04063	0.03981			
	0.03976	0.03448					0.03938	6.701	
95 Ethyl Acetate	0.22895	0.24226	0.24941	0.26510	0.26947	0.27468			
	0.29210	0.25422					0.25952	7.685	
96 Methacrylonitrile	0.09735	0.07350	0.08675	0.09490	0.09528	0.09838			
	0.10169	0.09061					0.09231	9.631	
97 Isobutanol	+++++	0.00664	0.00629	0.00721	0.00778	0.00876			
	0.00950	0.00782					0.00771	14.721	<-
98 Cyclohexane	+++++	0.47139	0.53141	0.58953	0.61395	0.61732			
	0.63420	0.65074					0.58694	10.865	
99 n-Butanol	0.00680	0.00616	0.00584	0.00609	0.00724	0.00849			
	0.00931	0.00777					0.00721	17.189	<-
100 Methyl Methacrylate	+++++	+++++	0.17278	0.18856	0.20508	0.21616			
	0.24767	0.22328					0.20892	12.656	
101 2-Nitropropane	0.07165	0.05857	0.05550	0.05574	0.05968	0.06445			
	0.07296	0.06735					0.06324	10.927	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
25 Cyclohexanone	0.07872	0.08126	0.07739	0.12717	0.14524	0.16260			
	0.16603	0.14858					0.12337	31.195	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
141 1,3,5-Trichlorobenzene	0.89321	0.94269	0.96907	0.96371	0.99798	1.05040			
	1.05840	1.11212					0.99845	7.129	

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
143 Methyl Acetate	0.28099	0.25819	0.23630	0.23788	0.24808	0.23702			
	0.23392	0.21139					0.24297	8.361	
144 Methylcyclohexane	+++++	0.37722	0.46680	0.50751	0.51883	0.53127			
	0.55226	0.55891					0.50183	12.536	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
146 2-Methylnaphthalene	0.57760	0.51775	0.58935	0.74195	0.99907	1.26056			
	1.30874	1.20391					0.89987	36.876	
147 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
148 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
149 1,2:3,4-Diepoxybutane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
150 Bromoacetone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
151 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
152 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
153 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	500.000 Level 7	1000.000 Level 8	RRF	% RSD	
155 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
156 tert-Butyl Ethyl ether	0.61614	0.61413	0.69838	0.73851	0.75170	0.79729	0.80616	0.81847	0.73010	11.114	
157 tert-Amyl Methyl ether	0.47295	0.44926	0.50746	0.57647	0.57895	0.62059	0.63683	0.63635	0.55986	13.270	
158 1,2,3-Trimethylbenzene	2.11844	1.94724	2.23055	2.47833	2.45175	2.55140	2.50282	2.63169	2.36403	10.094	
$ 4 Dibromofluoromethane	0.35258	0.29956	0.27622	0.26223	0.26209	0.25557	0.25080	0.24436	0.27543	12.912	
$ 5 1,2-Dichloroethane-d4	+++++	0.34034	0.30565	0.28206	0.28017	0.25995	0.25688	0.25166	0.28239	11.201	
$ 6 Toluene-d8	1.60296	1.28060	1.32050	1.30140	1.32373	1.36730	1.31365	1.33218	1.35529	7.609	
$ 7 Bromofluorobenzene	+++++	1.00528	0.92713	0.89738	0.89467	0.96270	0.88903	0.91268	0.92698	4.613	

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Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Level 8: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
8 Dichlorodifluoromethane	0.24512	0.22637	0.29312	0.26584	0.25836	0.22478					
	0.25377	0.25550					AVRG		0.25286		8.68705
9 Chloromethane	0.42760	0.36493	0.38632	0.37473	0.35555	0.33446					
	0.34515	0.33569					AVRG		0.36556		8.48878
10 Vinyl Chloride	0.26549	0.28334	0.29549	0.28345	0.28191	0.26248					
	0.26455	0.26910					AVRG		0.27573		4.32516

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
11 Bromomethane	0.16671	0.14740	0.14735	0.11780	0.13810	0.12513					
	0.12079	0.11372					AVRG		0.13462		13.66298
12 Chloroethane	0.19677	0.17979	0.17143	0.16587	0.15197	0.14043					
	0.13197	+++++					AVRG		0.16260		13.96621
13 Trichlorofluoromethane	0.23047	0.24528	0.27583	0.28521	0.27605	0.25898					
	0.27441	0.27809					AVRG		0.26554		7.14904
14 Dichlorofluoromethane	0.29538	0.25019	0.29271	0.24864	0.26333	0.25614					
	0.21871	0.22084					AVRG		0.25574		11.12468
15 Acrolein	0.03500	0.03646	0.03273	0.03061	0.03485	0.02713					
	0.03125	0.02333					AVRG		0.03142		14.04042
16 Acetone	+++++	+++++	45722	72936	130272	288152					
	541674	894409					WLINR	-0.26836	0.07359		0.99144
17 1,1-Dichloroethene	0.25543	0.22821	0.24875	0.24244	0.24031	0.22889					
	0.23230	0.23451					AVRG		0.23886		4.07186

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
18 Freon-113	0.15989	0.18326	0.19650	0.20474	0.19956	0.19157	0.19670	0.20241	AVRG		0.19183		7.57382
19 Iodomethane	0.41190	0.41853	0.41379	0.41730	0.39941	0.39424	0.39593	0.40575	AVRG		0.40711		2.37346
20 Carbon Disulfide	0.61213	0.67218	0.68222	0.69759	0.67790	0.68612	0.70728	0.73775	AVRG		0.68415		5.23131
21 Methylene Chloride	+++++	+++++	66631	109609	190625	434370	832867	1601722	WLINR	-0.09238	0.24722		0.99972
22 Acetonitrile	+++++	0.04002	0.03499	0.03418	0.03425	0.03141	0.03048	0.02681	AVRG		0.03316		12.50651
23 Acrylonitrile	0.09873	0.10132	0.09529	0.10049	0.10769	0.09823	0.09751	0.08789	AVRG		0.09839		5.70290
24 Methyl tert-butyl ether	0.53105	0.56003	0.58859	0.63771	0.65588	0.66764	0.67729	0.64640	AVRG		0.62058		8.68677

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
25 trans-1,2-Dichloroethene	0.30298	0.27861	0.28146	0.28115	0.27412	0.26566					
	0.26968	0.26535					AVRG		0.27738		4.39407
26 Hexane	0.06818	0.05919	0.06347	0.06206	0.06340	0.06360					
	0.06492	0.06727					AVRG		0.06401		4.44604
27 Vinyl acetate	0.27857	0.26576	0.27708	0.30336	0.33467	0.36377					
	0.36959	0.36730					AVRG		0.32001		13.77658
154 Vinyl Acetate**2nd**	+++++	+++++	0.02226	0.02595	0.02824	0.03177					
	0.03104	0.03181					AVRG		0.02851		13.45027
28 1,1-Dichloroethane	0.47614	0.50016	0.51634	0.50469	0.49915	0.48570					
	0.49304	0.49547					AVRG		0.49634		2.43834
29 tert-Butyl Alcohol	0.02185	0.02007	0.02067	0.02240	0.02417	0.02556					
	0.02534	0.02084					AVRG		0.02261		9.53291
30 2-Butanone	0.15894	0.13321	0.11448	0.12355	0.12907	0.12850					
	0.12419	0.11292					AVRG		0.12811		11.15850

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
M 31 1,2-Dichloroethene (total)	0.28719	0.27849	0.28402	0.28809	0.28260	0.27376					
	0.27838	0.27381					AVRG		0.28079		1.98343
32 cis-1,2-dichloroethene	0.27139	0.27837	0.28658	0.29502	0.29109	0.28186					
	0.28707	0.28227					AVRG		0.28421		2.61223
33 2,2-Dichloropropane	0.18179	0.17671	0.18243	0.19872	0.19625	0.20171					
	0.20572	0.21025					AVRG		0.19420		6.36588
34 Bromochloromethane	0.15515	0.13795	0.13821	0.13906	0.13595	0.13450					
	0.13437	0.12992					AVRG		0.13814		5.40535
35 Chloroform	0.47045	0.44710	0.45697	0.46723	0.45483	0.44638					
	0.44744	0.44930					AVRG		0.45496		2.06635
36 Tetrahydrofuran	+++++	0.09325	0.08510	0.08056	0.08038	0.08218					
	0.08397	0.07542					AVRG		0.08298		6.62614
37 1,1,1-Trichloroethane	0.29588	0.31020	0.31886	0.35046	0.32864	0.34089					
	0.33660	0.35024					AVRG		0.32897		5.93039

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
38 1,1-Dichloropropene	0.28692	0.30509	0.35013	0.35883	0.35804	0.35895						
	0.36427	0.37757					AVRG		0.34497		9.15384	
39 Carbon Tetrachloride	0.22410	0.27735	0.28113	0.30513	0.29106	0.29754						
	0.30178	0.30933					AVRG		0.28593		9.57695	
40 1,2-Dichloroethane	0.35141	0.32766	0.35354	0.33131	0.34294	0.33764						
	0.32608	0.32325					AVRG		0.33673		3.44971	
41 Benzene	1.08331	1.12270	1.09023	1.09541	1.05254	1.05927						
	1.06113	1.08007					AVRG		1.08058		2.13152	
42 Trichloroethene	0.29034	0.30732	0.29234	0.30670	0.29195	0.29551						
	0.29506	0.30332					AVRG		0.29782		2.31538	
43 1,2-Dichloropropane	0.25237	0.26526	0.26978	0.27227	0.27169	0.28057						
	0.27194	0.28181					AVRG		0.27071		3.39788	
44 1,4-Dioxane	0.00189	0.00177	0.00208	0.00233	0.00255	0.00261						
	0.00244	0.00220					AVRG		0.00223		13.73325	<-

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Compound	5.0000 Level 1 / 500.0000 Level 7	10.0000 Level 2 / 1000.0000 Level 8	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
45 Dibromomethane	0.15115	0.12624	0.14050	0.13878	0.13553	0.14251					
	0.13416	0.13402					AVRG		0.13786		5.30742
46 Bromodichloromethane	0.24738	0.25905	0.26074	0.28159	0.28408	0.29465					
	0.29899	0.30915					AVRG		0.27945		7.78821
47 2-Chloroethyl vinyl ether	3648	7878	23645	55693	134569	422388					
	810988	1691171					WLINR	0.03726	0.13054		0.99676
48 cis-1,3-Dichloropropene	+++++	+++++	0.27586	0.31639	0.33554	0.37475					
	0.36803	0.39164					AVRG		0.34370		12.52759
49 4-Methyl-2-pentanone	+++++	0.23984	0.25432	0.28947	0.33068	0.34275					
	0.34389	0.31238					AVRG		0.30190		13.94881
50 Toluene	1.38045	1.38434	1.45659	1.46607	1.47019	1.53313					
	1.52477	1.59727					AVRG		1.47660		5.01494
51 trans-1,3-Dichloropropene	+++++	+++++	0.31461	0.34297	0.36832	0.42993					
	0.42615	0.44640					AVRG		0.38806		13.84071

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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
52 Ethyl Methacrylate	4328	8671	27032	60861	145998	473697					
	922275	1845847					WLINR	0.01741	0.38686		0.99729
53 1,1,2-Trichloroethane	0.27652	0.24754	0.27102	0.24977	0.26690	0.27474					
	0.25968	0.26111					AVRG		0.26341		4.12726
54 1,3-Dichloropropane	0.41224	0.41925	0.43850	0.43824	0.44711	0.47052					
	0.45056	0.45409					AVRG		0.44131		4.26941
55 Tetrachloroethene	0.29512	0.30909	0.32584	0.31806	0.30660	0.30873					
	0.31207	0.31840					AVRG		0.31174		2.97454
56 2-Hexanone	+++++	0.16511	0.17438	0.19153	0.22577	0.24702					
	0.23340	0.21874					AVRG		0.20799		14.99964
57 Dibromochloromethane	0.22968	0.23431	0.24259	0.27396	0.28218	0.30742					
	0.30938	0.32011					AVRG		0.27496		13.09878
58 1,2-Dibromoethane	0.26779	0.22456	0.23888	0.24547	0.26368	0.26991					
	0.26339	0.26091					AVRG		0.25432		6.37590

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	5.0000	10.0000	25.0000	50.0000	100.0000	250.0000		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	500.0000	1000.0000									
	Level 7	Level 8									
59 Chlorobenzene	1.07406	1.02899	1.00247	1.00614	0.99359	1.00884					
	0.98994	1.01551					AVRG		1.01494		2.64481
60 1,1,1,2-Tetrachloroethane	0.28131	0.31373	0.30846	0.32857	0.33095	0.33565					
	0.33775	0.33875					AVRG		0.32190		6.15282
61 Ethylbenzene	0.43458	0.49215	0.49804	0.53582	0.53723	0.56295					
	0.55878	0.56543					AVRG		0.52312		8.68099
62 m + p-Xylene	0.51104	0.56573	0.62070	0.66725	0.66450	0.68289					
	0.67052	0.68039					AVRG		0.63288		9.96787
M 63 Xylenes (total)	0.51222	0.55693	0.60257	0.65173	0.65226	0.67007					
	0.65695	0.66280					AVRG		0.62069		9.36388
64 Xylene-o	0.51458	0.53931	0.56631	0.62069	0.62779	0.64442					
	0.62980	0.62764					AVRG		0.59632		8.22302
65 Styrene	+++++	0.71838	0.83322	0.92205	0.99485	1.05417					
	1.05543	1.05710					AVRG		0.94789		13.85478

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
66 Bromoform	0.13896	0.14466	0.14074	0.16038	0.16891	0.18971	0.19284	0.19554	AVRG		0.16647		14.39246
67 Isopropylbenzene	+++++	1.23184	1.49697	1.62185	1.67385	1.68068	1.73640	1.76109	AVRG		1.60039		11.49763
68 1,1,2,2-Tetrachloroethane	0.57457	0.61928	0.57194	0.60385	0.62132	0.66412	0.63399	0.61696	AVRG		0.61326		4.94005
69 1,4-Dichloro-2-butene	0.17621	0.16924	0.15831	0.18452	0.19355	0.21511	0.21145	0.21377	AVRG		0.19027		11.45111
70 1,2,3-Trichloropropane	0.17170	0.18316	0.17169	0.17403	0.17560	0.19019	0.17989	0.17552	AVRG		0.17772		3.59279
71 Bromobenzene	0.70970	0.71617	0.70245	0.71703	0.73838	0.77342	0.75106	0.78042	AVRG		0.73608		4.03551
72 n-Propylbenzene	+++++	+++++	0.72777	0.79541	0.85317	0.90389	0.89536	0.95944	AVRG		0.85584		9.72869

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
73 2-Chlorotoluene	0.55746	0.60105	0.67157	0.70880	0.74867	0.75615					
	0.74480	0.78166					AVRG		0.69627		11.52577
74 1,3,5-Trimethylbenzene	+++++	1.71952	2.11358	2.35330	2.50416	2.56582					
	2.57516	2.76084					AVRG		2.37034		14.81939
75 4-Chlorotoluene	0.63259	0.65758	0.73077	0.75635	0.76530	0.78784					
	0.75676	0.79422					AVRG		0.73518		8.07128
76 tert-Butylbenzene	+++++	1.65508	1.96567	2.13250	2.25770	2.39270					
	2.40302	2.55722					AVRG		2.19484		13.98744
77 1,2,4-Trimethylbenzene	+++++	1.73397	2.21612	2.42169	2.52345	2.60369					
	2.61878	2.81885					AVRG		2.41951		14.66359
78 sec-Butylbenzene	+++++	2.27366	2.94181	3.10114	3.21818	3.36225					
	3.48658	3.71171					AVRG		3.15647		14.70069
79 4-Isopropyltoluene	+++++	+++++	2.29990	2.48976	2.64117	2.77039					
	2.84030	3.05466					AVRG		2.68270		9.95162

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
80 1,3-Dichlorobenzene	1.39760	1.39536	1.36910	1.36814	1.38576	1.39827					
	1.39966	1.46646					AVRG		1.39754		2.19253
81 1,4-Dichlorobenzene	1.74236	1.47939	1.48759	1.42762	1.43281	1.41997					
	1.39725	1.47392					AVRG		1.48261		7.40164
82 n-Butylbenzene	+++++	+++++	1.99169	2.14846	2.23892	2.41147					
	2.49525	2.68071					AVRG		2.32775		10.74207
83 1,2-Dichlorobenzene	1.33193	1.33879	1.32606	1.29282	1.30517	1.28114					
	1.28168	1.31017					AVRG		1.30847		1.70934
84 1,2-Dibromo-3-chloropropane	+++++	0.09136	0.09272	0.10001	0.10606	0.11309					
	0.11941	0.11819					AVRG		0.10583		10.94328
85 1,2,4-Trichlorobenzene	0.73556	0.75799	0.76530	0.83332	0.85618	0.90598					
	0.94965	0.97001					AVRG		0.84675		10.60401
86 Hexachlorobutadiene	0.51656	0.52155	0.51347	0.51454	0.54954	0.54564					
	0.58146	0.59957					AVRG		0.54279		6.05828

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
87 Naphthalene	+++++	+++++	1.45699	1.76735	2.01575	2.11579						
	2.19283	2.14381					AVRG		1.94875		14.60005	
88 1,2,3-Trichlorobenzene	0.79204	0.77832	0.75896	0.81610	0.88582	0.87696						
	0.87713	0.88742					AVRG		0.83409		6.41740	
89 Ethyl Ether	0.22485	0.20658	0.21102	0.21793	0.21062	0.20849						
	0.20188	0.19532					AVRG		0.20958		4.33876	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
91 3-Chloropropene	0.12004	0.11312	0.13322	0.12820	0.13044	0.13849						
	0.13535	0.14033					AVRG		0.12990		7.15953	
92 Isopropyl Ether	0.18891	0.18586	0.22686	0.24347	0.23727	0.23925						
	0.23203	0.22237					AVRG		0.22200		10.09720	
93 2-Chloro-1,3-butadiene	0.27829	0.25023	0.31281	0.33396	0.33597	0.36927						
	0.37475	0.39179					AVRG		0.33088		14.77999	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
94 Propionitrile	0.04323	0.03827	0.03760	0.04128	0.04063	0.03981						
	0.03976	0.03448					AVRG		0.03938		6.70058	
95 Ethyl Acetate	0.22895	0.24226	0.24941	0.26510	0.26947	0.27468						
	0.29210	0.25422					AVRG		0.25952		7.68511	
96 Methacrylonitrile	0.09735	0.07350	0.08675	0.09490	0.09528	0.09838						
	0.10169	0.09061					AVRG		0.09231		9.63078	
97 Isobutanol	+++++	0.00664	0.00629	0.00721	0.00778	0.00876						
	0.00950	0.00782					AVRG		0.00771		14.72087	<-
98 Cyclohexane	+++++	0.47139	0.53141	0.58953	0.61395	0.61732						
	0.63420	0.65074					AVRG		0.58694		10.86460	
99 n-Butanol	4084	7525	18683	39595	97046	275820						
	634435	1047397					WLINR	0.22641	0.00832		0.99047	<-
100 Methyl Methacrylate	+++++	+++++	0.17278	0.18856	0.20508	0.21616						
	0.24767	0.22328					AVRG		0.20892		12.65583	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
101 2-Nitropropane	0.07165	0.05857	0.05550	0.05574	0.05968	0.06445						
	0.07296	0.06735					AVRG		0.06324		10.92691	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
25 Cyclohexanone	8103	16991	42148	143207	338140	939927						
	2071142	3547057					WLINR	0.17907	0.15636		0.99469	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

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	500.0000 Level 7	1000.0000 Level 8										
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
141 1,3,5-Trichlorobenzene	0.89321	0.94269	0.96907	0.96371	0.99798	1.05040						
	1.05840	1.11212					AVRG		0.99845		7.12939	
143 Methyl Acetate	0.28099	0.25819	0.23630	0.23788	0.24808	0.23702						
	0.23392	0.21139					AVRG		0.24297		8.36108	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
144 Methylcyclohexane	+++++	0.37722	0.46680	0.50751	0.51883	0.53127	0.55226	0.55891	AVRG		0.50183		12.53567	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
146 2-Methylnaphthalene	11891	21653	64191	167109	465200	1457360	3265074	5748365	WLINR	0.04667	1.24100		0.99253	
147 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
148 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
149 1,2:3,4-Diepoxybutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
150 Bromoacetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
151 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
152 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
153 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
155 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
156 tert-Butyl Ethyl ether	0.61614	0.61413	0.69838	0.73851	0.75170	0.79729						
	0.80616	0.81847					AVRG		0.73010		11.11396	
157 tert-Amyl Methyl ether	0.47295	0.44926	0.50746	0.57647	0.57895	0.62059						
	0.63683	0.63635					AVRG		0.55986		13.26984	
158 1,2,3-Trimethylbenzene	2.11844	1.94724	2.23055	2.47833	2.45175	2.55140						
	2.50282	2.63169					AVRG		2.36403		10.09434	

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	500.0000 Level 7	1000.0000 Level 8									
$ 4 Dibromofluoromethane	0.35258	0.29956	0.27622	0.26223	0.26209	0.25557					
	0.25080	0.24436					AVRG		0.27543		12.91202
$ 5 1,2-Dichloroethane-d4	+++++	0.34034	0.30565	0.28206	0.28017	0.25995					
	0.25688	0.25166					AVRG		0.28239		11.20112
$ 6 Toluene-d8	1.60296	1.28060	1.32050	1.30140	1.32373	1.36730					
	1.31365	1.33218					AVRG		1.35529		7.60888
$ 7 Bromofluorobenzene	+++++	1.00528	0.92713	0.89738	0.89467	0.96270					
	0.88903	0.91268					AVRG		0.92698		4.61306

Report Date : 15-Jan-2010 11:24

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response

Data review checklist: 8260 A/8260B/624 Initial Calibration

Method (check the applicable box): ☐ 8260A ☒ 8260B ☐ 624

Analysis Date: _____ **Run batch ID:** R001144-IC

Curve ID: R001144/R001144-BB **(curve ID must include instrument designation and date reference)**

Acceptance criteria is found in the applicable laboratory SOP. If item is N/A, mark as such in Notes column

Item for review	Level I Yes	Level I No	Level II Yes	Level II No
Tune:				
BFB passes, all points within 12 hr clock (24 hr for 624)	Yes		Yes	
All calibration points ID'd on Calibration Summary Form	Yes		Yes	
Documentation: Raw data and run logs present for all points	Yes		Yes	
Run log and Raw data clearly indicate method by version	Yes		Yes	
RLs: Minimum of 5 points, lowest standards at or below RL	Yes		Yes	
Linearity: 8260 CCCs ≤ 30% RSD	Yes		Yes	
Linear Regression curve fit for all >15% RSD (35% 624) r2>0.980 (r>0.990)	Yes		Yes	
Plots for all Linear Regressions printed	Yes		Yes	
Response: SPCCs all pass minimum response factors	Yes		Yes	
ICV- Second source standard Analytes 60-140% recovery, problem compounds may be allowed outside these limits, but must be evaluated (acrolein, acrylonitrile, 2-ceve, propionitrile, trans 1,4-dichloro-2-butene) Internal Standards 50-200% of recent curve	Yes		Yes	
Manual integrations: necessary, correct & documented	NA		NA	
Other: Verify Avg RF on Cal Summary matches Avg RF on Con Cal form	NA		NA	

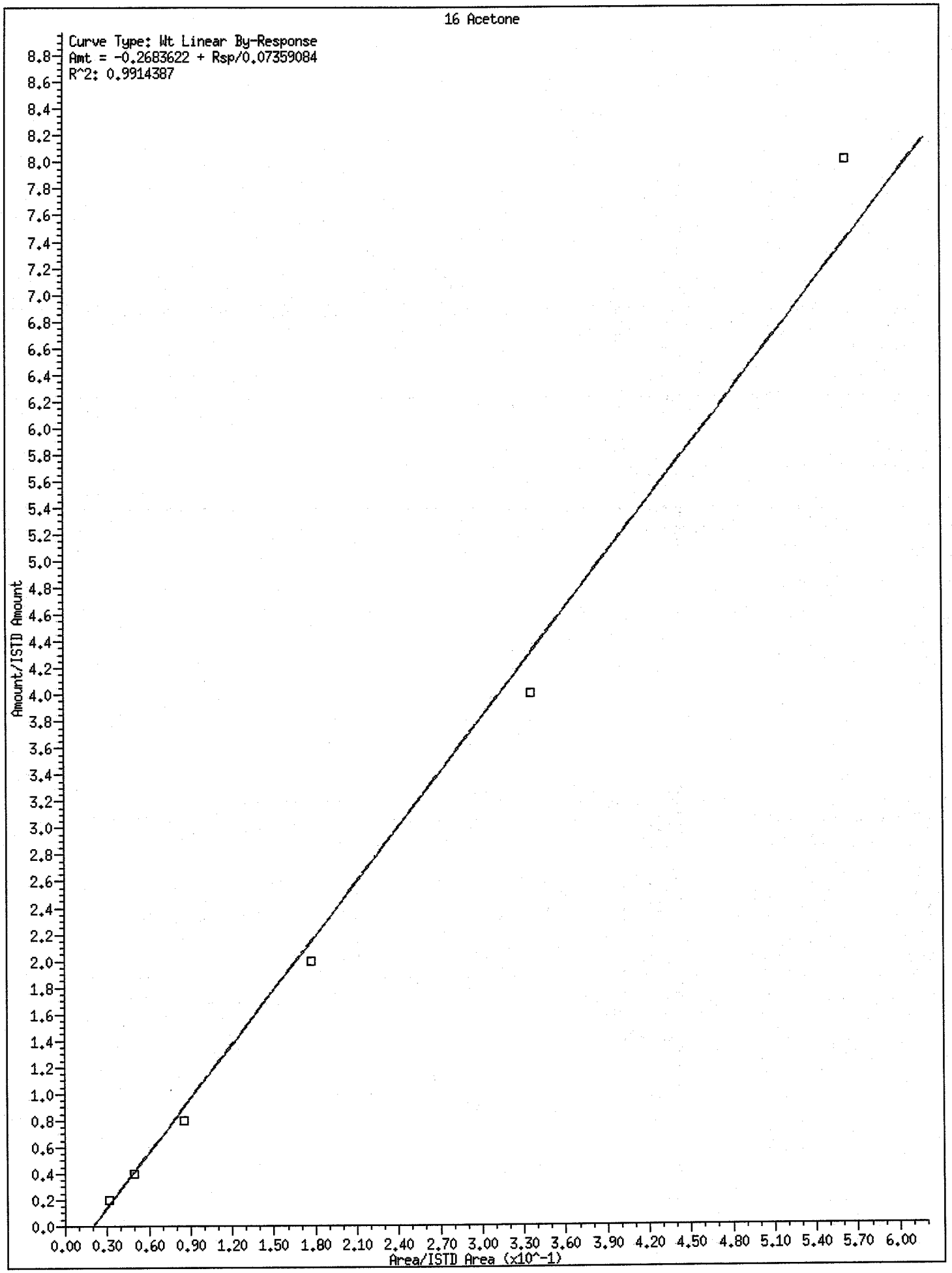
Reviewed by Analyst/ Level I: _____ Date: 1-19-10

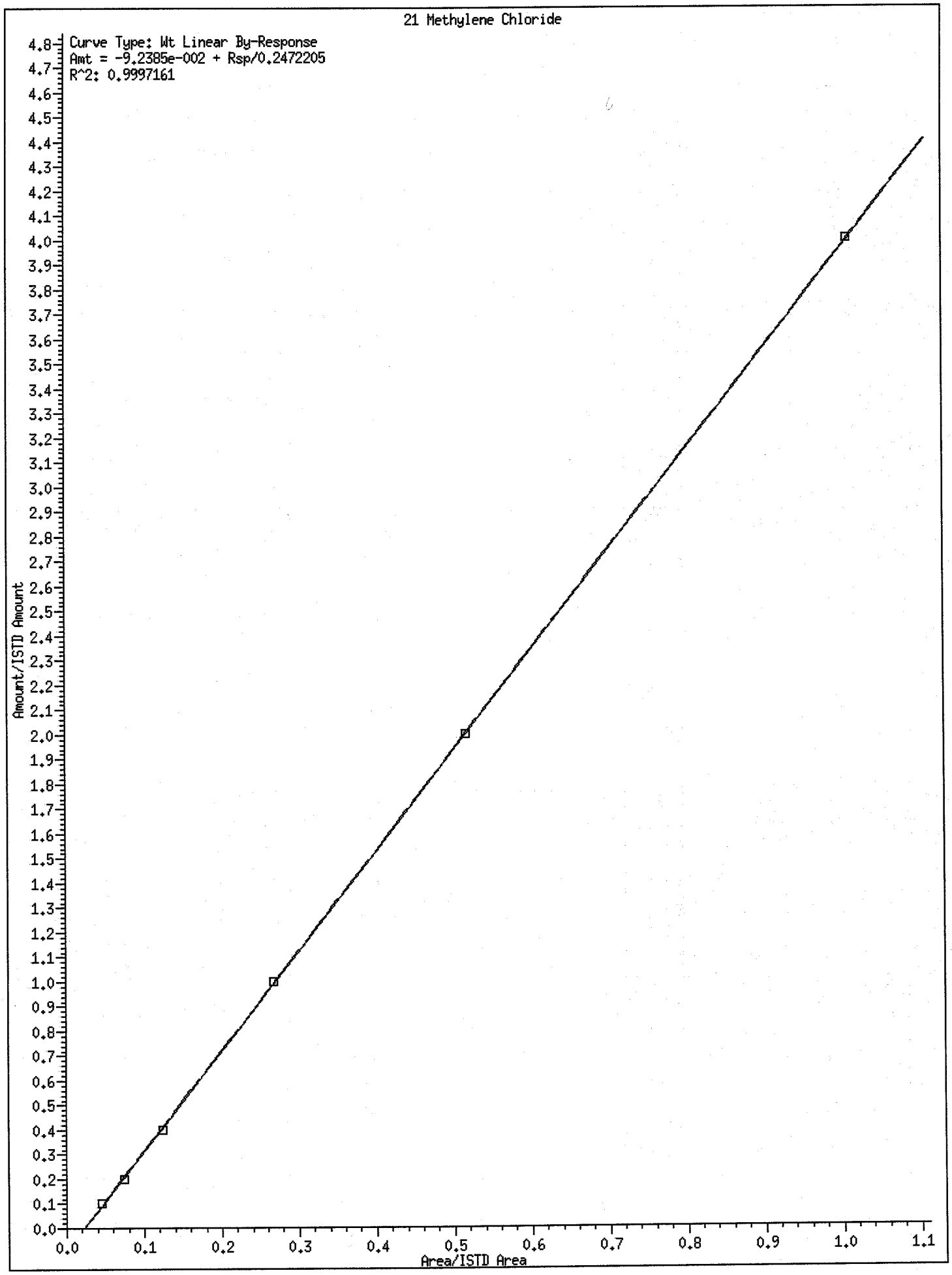
Reviewed by Peer/Sup/ Level II: _____ Date: 1-18-10

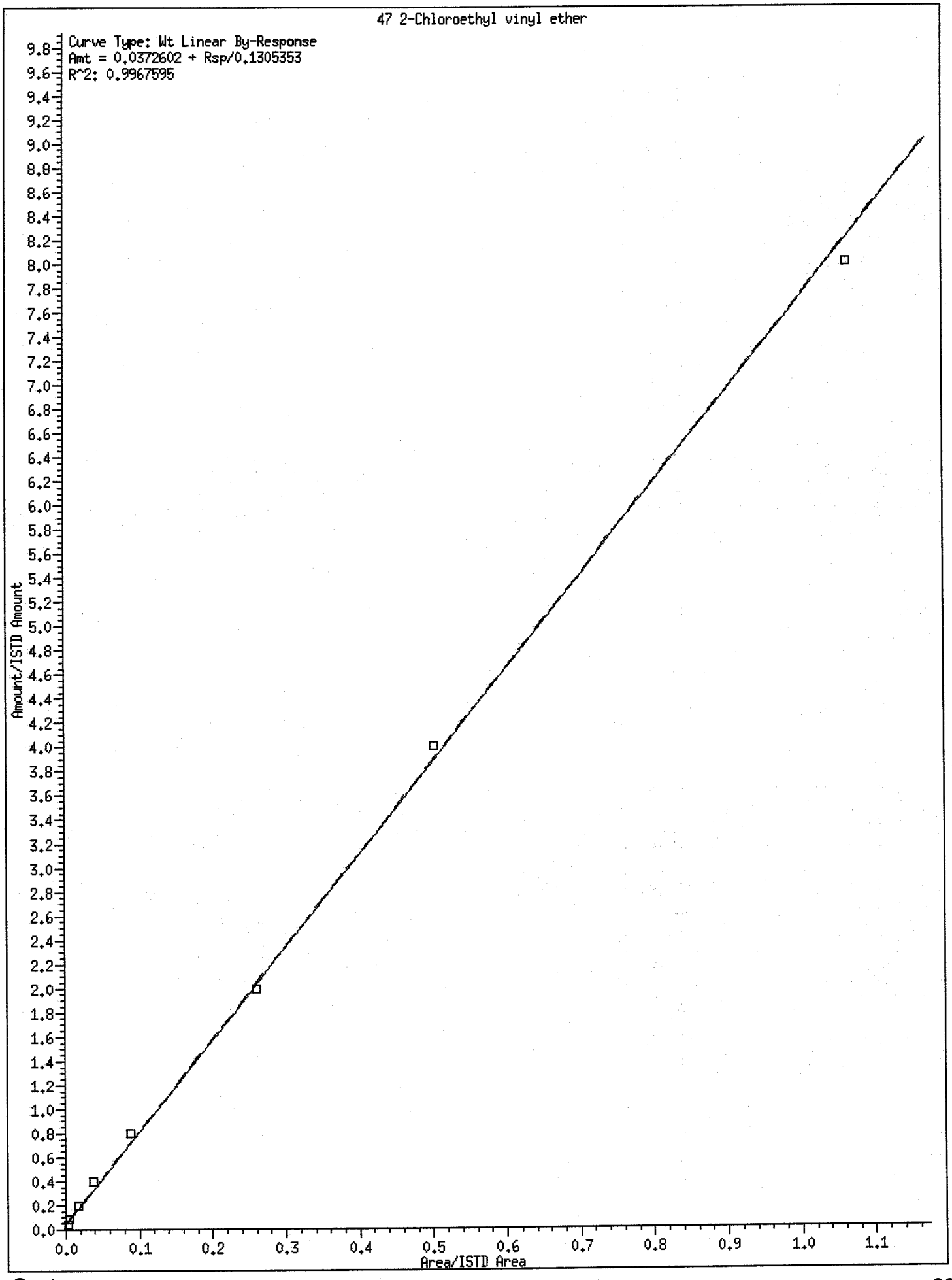
By signing in "Reviewed by" above I agree that I have reviewed the data as indicated on this checklist.

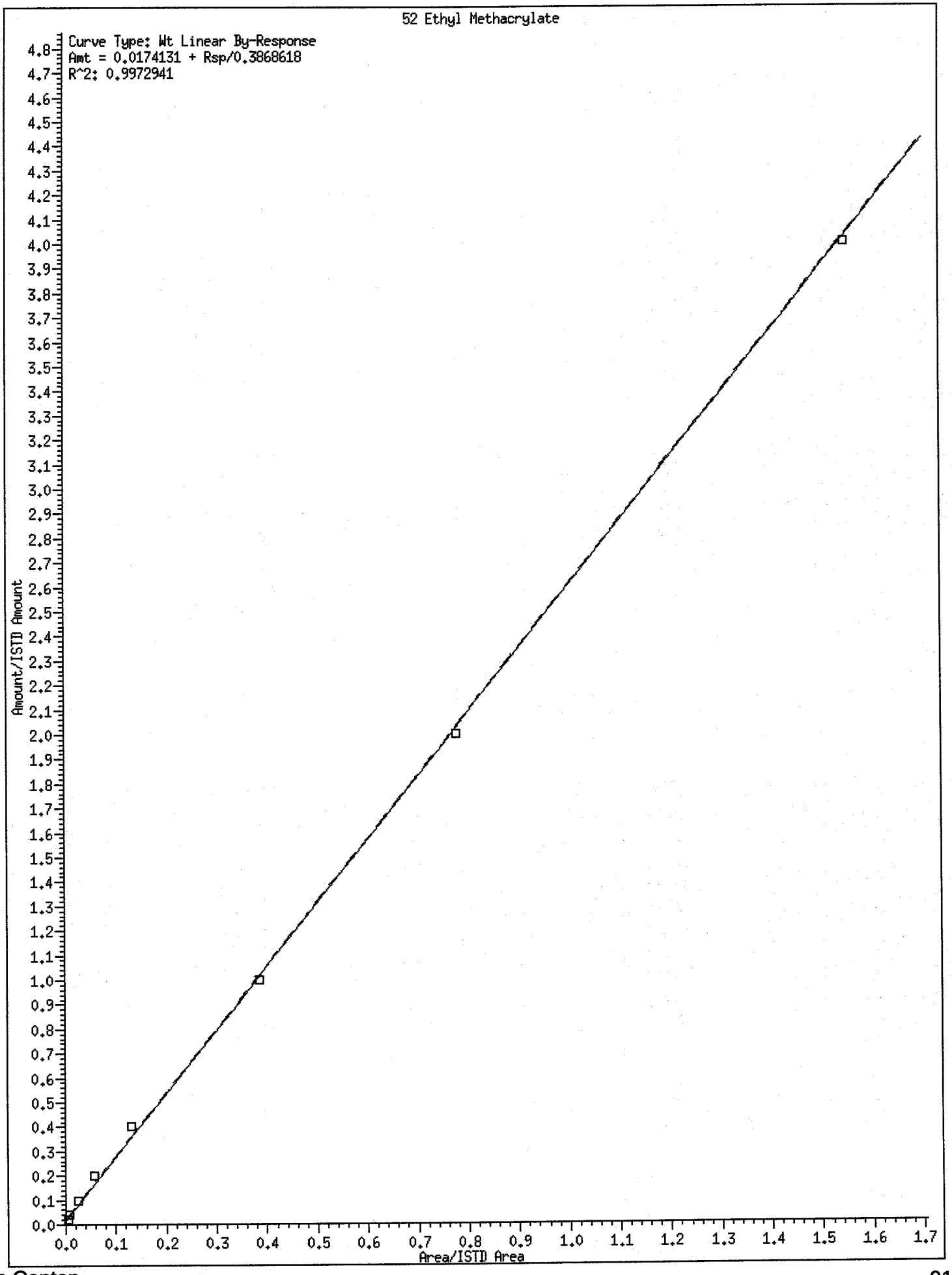
*Peer/Sup only: In addition to the items above, all manual integrations in this package have been reviewed and found acceptable.

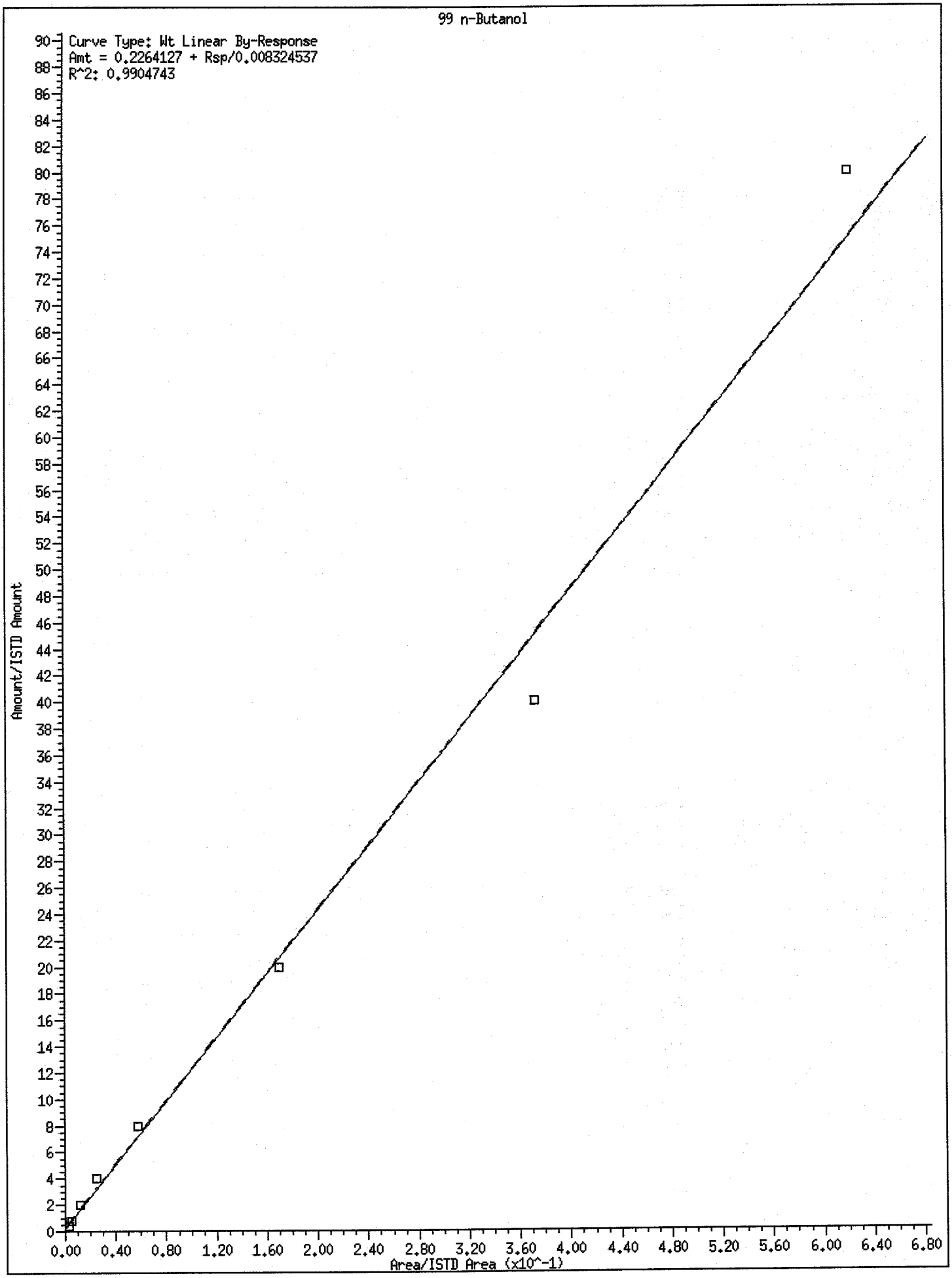
Reviewed by Peer/Sup: _____ Date: _____

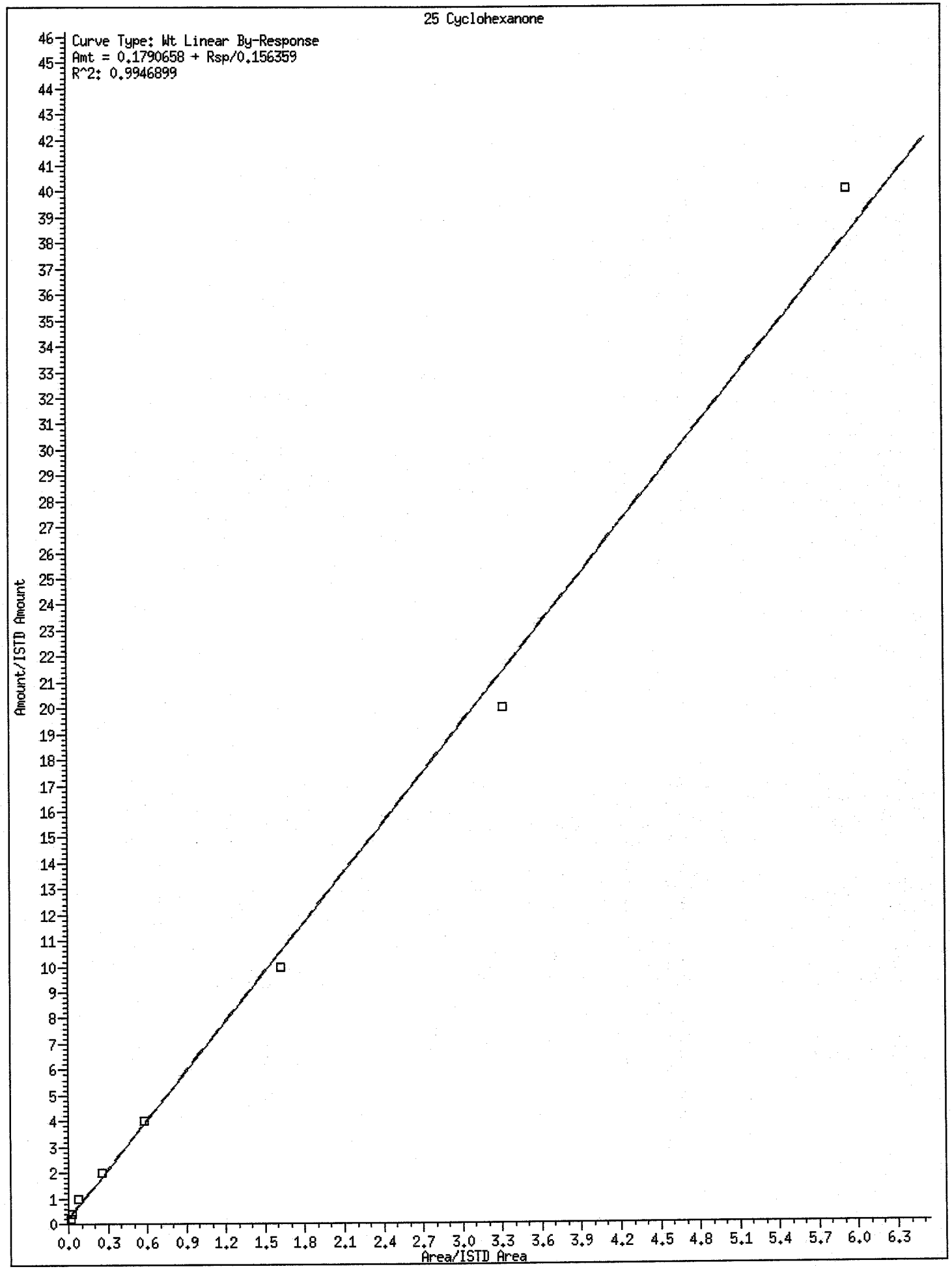

16 Acetone
Curve Type: Wt Linear By-Response
Amt = -0.2683622 + Rsp/0.07359084
R^2: 0.9914387
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8 7.0 7.2 7.4 7.6 7.8 8.0 8.2 8.4 8.6 8.8
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00

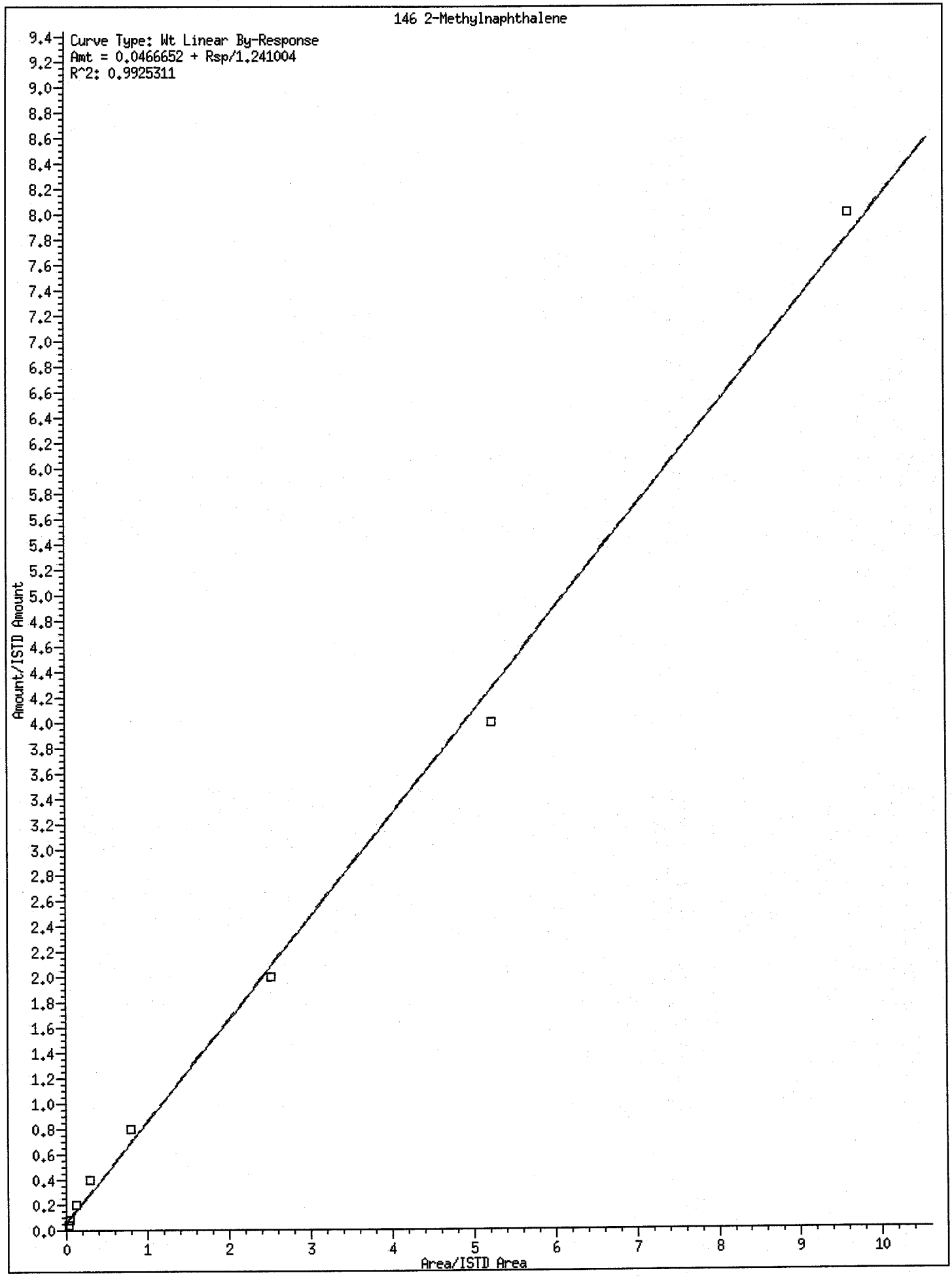

21 Methylene Chloride
Curve Type: Wt Linear By-Response
Amt = -9.2385e-002 + Rsp/0.2472205
R^2: 0.9997161
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0


47 2-Chloroethyl vinyl ether
Curve Type: Wt Linear By-Response
Amt = 0.0372602 + Rsp/0.1305353
R^2: 0.9967595
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1


52 Ethyl Methacrylate
Curve Type: Wt Linear By-Response
Amt = 0.0174131 + Rsp/0.3868618
R^2: 0.9972941
Amount/ISTD Amount
Area/ISTD Area


99 n-Butanol
Curve Type: Wt Linear By-Response
Amt = 0.2264127 + Rsp/0.008324537
R^2: 0.9904743
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
3.20
3.60
4.00
4.40
4.80
5.20
5.60
6.00
6.40
6.80


25 Cyclohexanone
Curve Type: Wt Linear By-Response
Amt = 0.1790658 + Rsp/0.156359
R^2: 0.9946899
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0 6.3


146 2-Methylnaphthalene
Curve Type: Wt Linear By-Response
Amt = 0.0466652 + Rsp/1.241004
R^2: 0.9925311
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8
9.0
9.2
9.4
0
1
2
3
4
5
6
7
8
9
10

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Lab Smp Id: 1000NG-IC
Inj Date : 14-JAN-2010 10:45
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 1000NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,8
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 17:14 Cal File: 147369.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1586660	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1191268	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	599657	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	1550872	1000.00	887.21
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	1597211	1000.00	891.20
$	6 Toluene-d8	98	8.090	8.090	(0.867)	6347919	1000.00	982.95
$	7 Bromofluorobenzene	95	10.327	10.327	(0.913)	2189170	1000.00	984.57
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	1621536	1000.00	1010.4(A)
	9 Chloromethane	50	1.452	1.452	(0.220)	2130506	1000.00	918.30
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	1707911	1000.00	975.98
	12 Chloroethane	64	1.973	1.973	(0.299)	705117	1000.00	683.26
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	1764921	1000.00	1047.2(A)
	15 Acrolein	56	2.730	2.730	(0.414)	1480430	10000.0	7423.8
	16 Acetone	43	2.943	2.943	(0.446)	894409	2000.00	1338.7
	17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	1488368	1000.00	981.82
	18 Freon-113	151	2.884	2.884	(0.437)	1284629	1000.00	1055.2(A)
	19 Iodomethane	142	3.014	3.014	(0.457)	2575142	1000.00	996.67
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	4682251	1000.00	1078.4(A)
	21 Methylene Chloride	84	3.499	3.499	(0.530)	1601722	1000.00	787.44
	22 Acetonitrile	41	3.286	3.286	(0.498)	1701843	10000.0	8085.7
	23 Acrylonitrile	53	3.890	3.890	(0.589)	1115549	2000.00	1786.4
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	4102482	1000.00	1041.6(A)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	1684085	1000.00	956.64
26	Hexane	86	4.387	4.387	(0.665)	426926	1000.00	1050.9(A)
27	Vinyl acetate	43	4.694	4.694	(0.711)	2331140	1000.00	1147.8(A)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	201884	1000.00	1115.6(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	3144585	1000.00	998.26
29	tert-Butyl Alcohol	59	3.795	3.795	(0.575)	2645703	20000.0	18434
30	2-Butanone	43	5.380	5.380	(0.815)	1433284	2000.00	1762.8
M 31	1,2-Dichloroethene (total)	96				3475574	2000.00	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	1791489	1000.00	993.19
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	1334401	1000.00	1082.7(A)
34	Bromochloromethane	128	5.605	5.605	(0.849)	824533	1000.00	940.48
35	Chloroform	83	5.724	5.724	(0.867)	2851538	1000.00	987.55
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	478646	1000.00	908.86
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	2222868	1000.00	1064.7(A)
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	2396279	1000.00	1094.5(A)
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	1963226	1000.00	1081.8(A)
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	2051530	1000.00	959.96
41	Benzene	78	6.303	6.303	(0.955)	6854817	1000.00	999.52
42	Trichloroethene	130	6.966	6.966	(1.056)	1925055	1000.00	1018.5(A)
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	1788554	1000.00	1041.0(A)
44	1,4-Dioxane	88	7.309	7.309	(1.108)	697021	50000.0	49168
45	Dibromomethane	93	7.274	7.274	(1.102)	850550	1000.00	972.11
46	Bromodichloromethane	83	7.439	7.439	(1.127)	1962059	1000.00	1106.3(A)
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	1691171	2000.00	2615.4(A)
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	2485625	1000.00	1139.5(A)
49	4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	2976998	2000.00	2069.4(A)
50	Toluene	91	8.149	8.149	(0.873)	7611084	1000.00	1081.7(A)
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	2127124	1000.00	1150.3(A)
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	1845847	1000.00	1259.8(A)
53	1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	1244203	1000.00	991.27
54	1,3-Dichloropropane	76	8.635	8.635	(0.925)	2163749	1000.00	1028.9(A)
55	Tetrachloroethene	164	8.623	8.623	(0.924)	1517192	1000.00	1021.4(A)
56	2-Hexanone	43	8.717	8.717	(0.934)	2084655	2000.00	2103.4(A)
57	Dibromochloromethane	129	8.836	8.836	(0.947)	1525332	1000.00	1164.2(A)
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	1243278	1000.00	1025.9(A)
59	Chlorobenzene	112	9.356	9.356	(1.003)	4838972	1000.00	1000.6(A)
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	1614150	1000.00	1052.3(A)
61	Ethylbenzene	106	9.451	9.451	(1.013)	2694319	1000.00	1080.9(A)
62	m + p-Xylene	106	9.558	9.558	(1.024)	6484192	2000.00	2150.1(A)
64	Xylene-o	106	9.889	9.889	(1.060)	2990740	1000.00	1052.5(A)
65	Styrene	104	9.901	9.901	(1.061)	5037155	1000.00	1115.2(A)
66	Bromoform	173	10.054	10.054	(1.077)	931775	1000.00	1174.6(A)
67	Isopropylbenzene	105	10.208	10.208	(1.094)	8391727	1000.00	1100.4(A)
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	1479864	1000.00	1006.0(A)
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	512747	1000.00	1123.5(A)
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	421003	1000.00	987.60
71	Bromobenzene	156	10.457	10.457	(0.925)	1871938	1000.00	1060.2(A)
72	n-Propylbenzene	120	10.551	10.551	(0.933)	2301331	1000.00	1121.0(A)
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	1874900	1000.00	1122.6(A)
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	6622219	1000.00	1164.7(A)
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	1905045	1000.00	1080.3(A)
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	6133820	1000.00	1165.1(A)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	6761362	1000.00	1165.0(A)
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	8903000	1000.00	1175.9(A)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.285	11.285	(0.998)	7327000	1000.00	1138.6(A)
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	3517499	1000.00	1049.3(A)
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	3535389	1000.00	994.14
82	n-Butylbenzene	91	11.628	11.628	(1.028)	6430037	1000.00	1151.6(A)
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	3142614	1000.00	1001.3(A)
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	283496	1000.00	1116.7(A)
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	2326689	1000.00	1145.6(A)
87	Naphthalene	128	13.178	13.178	(1.165)	5142201	1000.00	1100.1(A)
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	1438134	1000.00	1104.6(A)
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	2128579	1000.00	1063.9(A)
98	Cyclohexane	56	5.960	5.960	(0.903)	4130035	1000.00	1108.7(A)
143	Methyl Acetate	43	3.393	3.393	(0.514)	2683177	2000.00	1740.0
144	Methylcyclohexane	83	7.144	7.144	(1.082)	3547186	1000.00	1113.7(A)
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	2667564	1000.00	1113.8(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147352.D
Lab Smp Id: 1000NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,8

Calibration Date: 14-JAN-2010
Calibration Time: 15:16

Level: LOW
Sample Type: SOIL

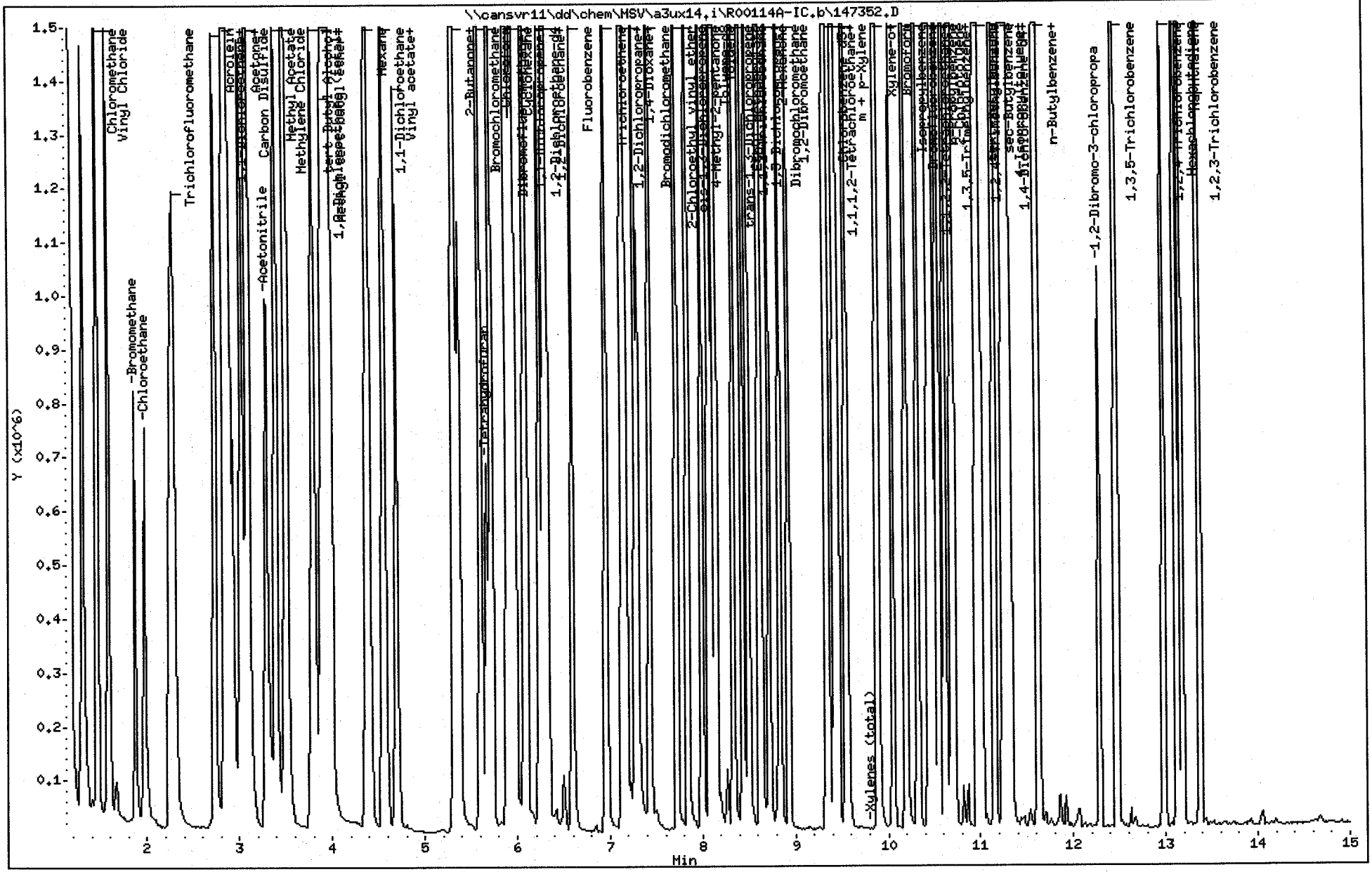
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1586660	11.21
2 Chlorobenzene-d5	1019841	509921	2039682	1191268	16.81
3 1,4-Dichlorobenze	550598	275299	1101196	599657	8.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Date : 14-JAN-2010 10:45
Client ID:
Sample Info: 1000NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



North Canton

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Lab Smp Id: 500NG-IC
Inj Date : 14-JAN-2010 11:07
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 500NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,7
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:30 Cal File: 147362.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	6.599	6.599	(1.000)	1611295	250.000	
* 2	Chlorobenzene-d5	117	9.333	9.333	(1.000)	1183987	250.000	
* 3	1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	632285	250.000	
$ 4	Dibromofluoromethane	113	5.901	5.901	(0.894)	808217	500.000	455.29
$ 5	1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	827807	500.000	454.83
$ 6	Toluene-d8	98	8.090	8.090	(0.867)	3110681	500.000	484.64
$ 7	Bromofluorobenzene	95	10.327	10.327	(0.913)	1124235	500.000	479.53
8	Dichlorodifluoromethane	85	1.298	1.298	(0.197)	817803	500.000	501.81
9	Chloromethane	50	1.452	1.452	(0.220)	1112293	500.000	472.10
10	Vinyl Chloride	62	1.570	1.570	(0.238)	852541	500.000	479.73
12	Chloroethane	64	1.996	1.996	(0.303)	425274	500.000	405.79
13	Trichlorofluoromethane	101	2.268	2.268	(0.344)	884302	500.000	516.70
15	Acrolein	56	2.730	2.730	(0.414)	1007152	5000.00	4973.2
16	Acetone	43	2.931	2.931	(0.444)	541674	1000.00	798.35
17	1,1-Dichloroethene	96	2.848	2.848	(0.432)	748607	500.000	486.28
18	Freon-113	151	2.884	2.884	(0.437)	633881	500.000	512.70
19	Iodomethane	142	3.026	3.026	(0.459)	1275909	500.000	486.27
20	Carbon Disulfide	76	3.097	3.097	(0.469)	2279280	500.000	516.91
21	Methylene Chloride	84	3.511	3.511	(0.532)	832867	500.000	403.20
22	Acetonitrile	41	3.286	3.286	(0.498)	982098	5000.00	4594.7
23	Acrylonitrile	53	3.889	3.889	(0.589)	628461	1000.00	991.00
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	2182635	500.000	545.70

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	869075	500.000	486.13
26	Hexane	86	4.386	4.386	(0.665)	209213	500.000	507.11
27	Vinyl acetate	43	4.694	4.694	(0.711)	1191034	500.000	577.46
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	100038	500.000	544.36(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	1588852	500.000	496.68
29	tert-Butyl Alcohol	59	3.783	3.783	(0.573)	1633101	10000.0	11205
30	2-Butanone	43	5.380	5.380	(0.815)	800456	1000.00	969.44
M 31	1,2-Dichloroethene (total)	96				1794194	1000.00	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	925119	500.000	505.04
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	662959	500.000	529.67
34	Bromochloromethane	128	5.605	5.605	(0.849)	433029	500.000	486.37
35	Chloroform	83	5.724	5.724	(0.867)	1441907	500.000	491.73
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	270616	500.000	505.99
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	1084735	500.000	511.60
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	1173894	500.000	527.97
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	972528	500.000	527.73
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	1050813	500.000	484.18
41	Benzene	78	6.303	6.303	(0.955)	3419599	500.000	491.00
42	Trichloroethene	130	6.966	6.966	(1.056)	950868	500.000	495.38
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	876347	500.000	502.27
44	1,4-Dioxane	88	7.309	7.309	(1.108)	393840	25000.0	27357
45	Dibromomethane	93	7.274	7.274	(1.102)	432358	500.000	486.60
46	Bromodichloromethane	83	7.439	7.439	(1.127)	963530	500.000	534.96
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	810988	1000.00	1235.0
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	1186008	500.000	535.39
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	1628664	1000.00	1139.1
50	Toluene	91	8.149	8.149	(0.873)	3610620	500.000	516.31
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	1009101	500.000	549.06
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	922275	500.000	633.30
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	614927	500.000	492.93
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	1066912	500.000	510.48
55	Tetrachloroethene	164	8.623	8.623	(0.924)	738978	500.000	500.53
56	2-Hexanone	43	8.717	8.717	(0.934)	1105371	1000.00	1122.2
57	Dibromochloromethane	129	8.836	8.836	(0.947)	732609	500.000	562.60
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	623710	500.000	517.83
59	Chlorobenzene	112	9.356	9.356	(1.003)	2344155	500.000	487.68
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	799795	500.000	524.63
61	Ethylbenzene	106	9.451	9.451	(1.013)	1323176	500.000	534.08
62	m + p-Xylene	106	9.557	9.557	(1.024)	3175551	1000.00	1059.5
64	Xylene-o	106	9.889	9.889	(1.060)	1491345	500.000	528.07
65	Styrene	104	9.901	9.901	(1.061)	2499222	500.000	556.73
66	Bromoform	173	10.054	10.054	(1.077)	456635	500.000	579.20
67	Isopropylbenzene	105	10.196	10.196	(1.093)	4111761	500.000	542.50
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	801725	500.000	516.90
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	267390	500.000	555.65
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	227481	500.000	506.09
71	Bromobenzene	156	10.457	10.457	(0.925)	949762	500.000	510.17
72	n-Propylbenzene	120	10.551	10.551	(0.933)	1132241	500.000	523.09
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	941850	500.000	534.85
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	3256470	500.000	543.20
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	956975	500.000	514.68
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	3038792	500.000	547.42
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	3311631	500.000	541.18
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	4409020	500.000	552.29

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.285	11.285	(0.998)	3591760	500.000	529.37
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	1769967	500.000	500.76
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	1766918	500.000	471.21
82	n-Butylbenzene	91	11.616	11.616	(1.027)	3155420	500.000	535.98
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	1620780	500.000	489.76
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	150998	500.000	564.12
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	1200894	500.000	560.76
87	Naphthalene	128	13.178	13.178	(1.165)	2772993	500.000	562.62
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	735292	500.000	535.62
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	1109186	500.000	525.80
98	Cyclohexane	56	5.960	5.960	(0.903)	2043763	500.000	540.26
143	Methyl Acetate	43	3.392	3.392	(0.514)	1507678	1000.00	962.76
144	Methylcyclohexane	83	7.144	7.144	(1.082)	1779716	500.000	550.25
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	1338420	500.000	530.02

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

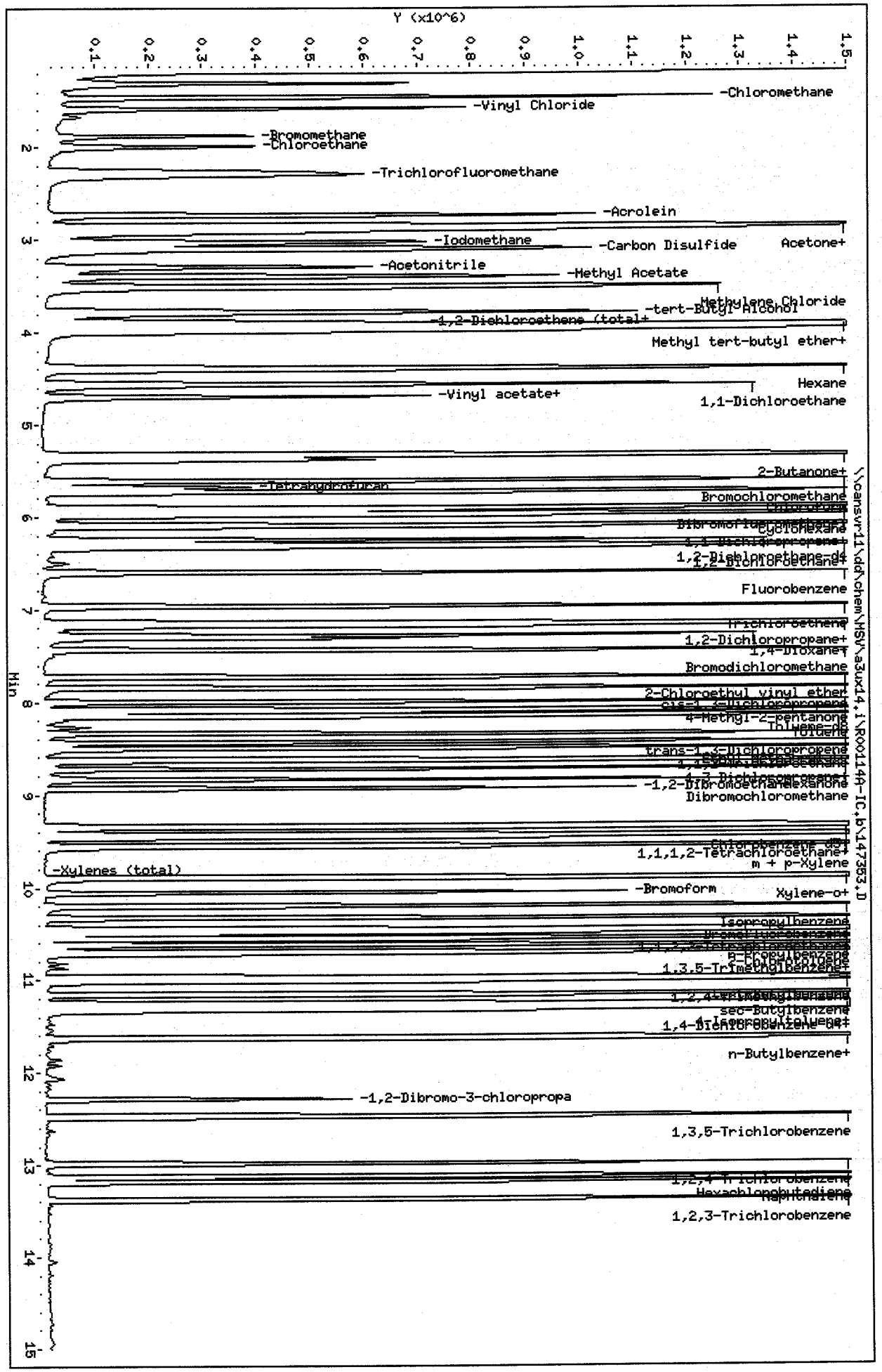
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147353.D
Lab Smp Id: 500NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,7

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1611295	12.93
2 Chlorobenzene-d5	1019841	509921	2039682	1183987	16.10
3 1,4-Dichlorobenze	550598	275299	1101196	632285	14.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Date : 14-JAN-2010 11:07
Client ID:
Sample Info: 500NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Lab Smp Id: 250NG-IC
Inj Date : 14-JAN-2010 11:29
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:53 Cal File: 147363.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1619446	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1224767	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	643485	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	413884	250.000	231.98
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	420968	250.000	230.13
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1674621	250.000	252.22
$ 7 Bromofluorobenzene	95	10.326	10.326	(0.913)	619481	250.000	259.63
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	364014	250.000	222.24
9 Chloromethane	50	1.452	1.452	(0.220)	541644	250.000	228.74
10 Vinyl Chloride	62	1.570	1.570	(0.238)	425071	250.000	237.99
12 Chloroethane	64	1.996	1.996	(0.303)	227426	250.000	215.92
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	419397	250.000	243.82
15 Acrolein	56	2.730	2.730	(0.414)	439435	2500.00	2159.0
16 Acetone	43	2.931	2.931	(0.444)	288152	500.000	422.56
17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	370674	250.000	239.57
18 Freon-113	151	2.884	2.884	(0.437)	310232	250.000	249.66
19 Iodomethane	142	3.026	3.026	(0.459)	638457	250.000	242.10
20 Carbon Disulfide	76	3.097	3.097	(0.469)	1111139	250.000	250.72
21 Methylene Chloride	84	3.499	3.499	(0.530)	434370	250.000	209.22
22 Acetonitrile	41	3.286	3.286	(0.498)	508675	2500.00	2367.8
23 Acrylonitrile	53	3.889	3.889	(0.589)	318167	500.000	499.18
24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	1081213	250.000	268.96

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	430225	250.000	239.44
26	Hexane	86	4.386	4.386	(0.665)	103001	250.000	248.41
27	Vinyl acetate	43	4.694	4.694	(0.711)	589112	250.000	284.19
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	51446	250.000	278.53(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	786557	250.000	244.64
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	827918	5000.00	5651.8
30	2-Butanone	43	5.380	5.380	(0.815)	416209	500.000	501.54
M 31	1,2-Dichloroethene (total)	96				886685	500.000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	456460	250.000	247.94
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	326656	250.000	259.67
34	Bromochloromethane	128	5.605	5.605	(0.849)	217808	250.000	243.41
35	Chloroform	83	5.723	5.723	(0.867)	722890	250.000	245.28
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	133091	250.000	247.60
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	552049	250.000	259.06
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	581303	250.000	260.13
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	481856	250.000	260.16
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	546796	250.000	250.68
41	Benzene	78	6.303	6.303	(0.955)	1715431	250.000	245.07
42	Trichloroethene	130	6.966	6.966	(1.056)	478559	250.000	248.06
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	454374	250.000	259.11
44	1,4-Dioxane	88	7.309	7.309	(1.108)	211131	12500.0	14592
45	Dibromomethane	93	7.274	7.274	(1.102)	230786	250.000	258.43
46	Bromodichloromethane	83	7.439	7.439	(1.127)	477171	250.000	263.60
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	422388	500.000	639.99
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	606890	250.000	272.58
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	839579	500.000	567.65
50	Toluene	91	8.137	8.137	(0.872)	1877729	250.000	259.57
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.893)	526568	250.000	276.97
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	473697	250.000	314.44
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	336495	250.000	260.76
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	576278	250.000	266.55
55	Tetrachloroethene	164	8.623	8.623	(0.924)	378117	250.000	247.58
56	2-Hexanone	43	8.717	8.717	(0.934)	605081	500.000	593.81
57	Dibromochloromethane	129	8.836	8.836	(0.947)	376520	250.000	279.52
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	330577	250.000	265.32
59	Chlorobenzene	112	9.356	9.356	(1.003)	1235592	250.000	248.50
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	411090	250.000	260.68
61	Ethylbenzene	106	9.451	9.451	(1.013)	689482	250.000	269.03
62	m + p-Xylene	106	9.557	9.557	(1.024)	1672769	500.000	539.51
64	Xylene-o	106	9.889	9.889	(1.060)	789267	250.000	270.17
65	Styrene	104	9.900	9.900	(1.061)	1291118	250.000	278.03
66	Bromoform	173	10.054	10.054	(1.077)	232356	250.000	284.91
67	Isopropylbenzene	105	10.196	10.196	(1.093)	2058444	250.000	262.54
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	427354	250.000	270.74
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	138420	250.000	282.64
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	122385	250.000	267.54
71	Bromobenzene	156	10.457	10.457	(0.925)	497687	250.000	262.68
72	n-Propylbenzene	120	10.551	10.551	(0.933)	581642	250.000	264.04
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	486572	250.000	271.50
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1651064	250.000	270.62
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	506966	250.000	267.91
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	1539666	250.000	272.54
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1675434	250.000	269.03
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	2163556	250.000	266.30

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1782706	250.000	258.17
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	899764	250.000	250.13
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	913730	250.000	239.44
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1551747	250.000	258.99
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	824397	250.000	244.78
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	72772	250.000	267.14
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	582982	250.000	267.49
87	Naphthalene	128	13.178	13.178	(1.165)	1361478	250.000	271.43
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	351114	250.000	251.31
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	564311	250.000	262.85
98	Cyclohexane	56	5.960	5.960	(0.903)	999718	250.000	262.94
143	Methyl Acetate	43	3.392	3.392	(0.514)	767682	500.000	487.75
144	Methylcyclohexane	83	7.143	7.143	(1.082)	860368	250.000	264.67
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	675916	250.000	263.01

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

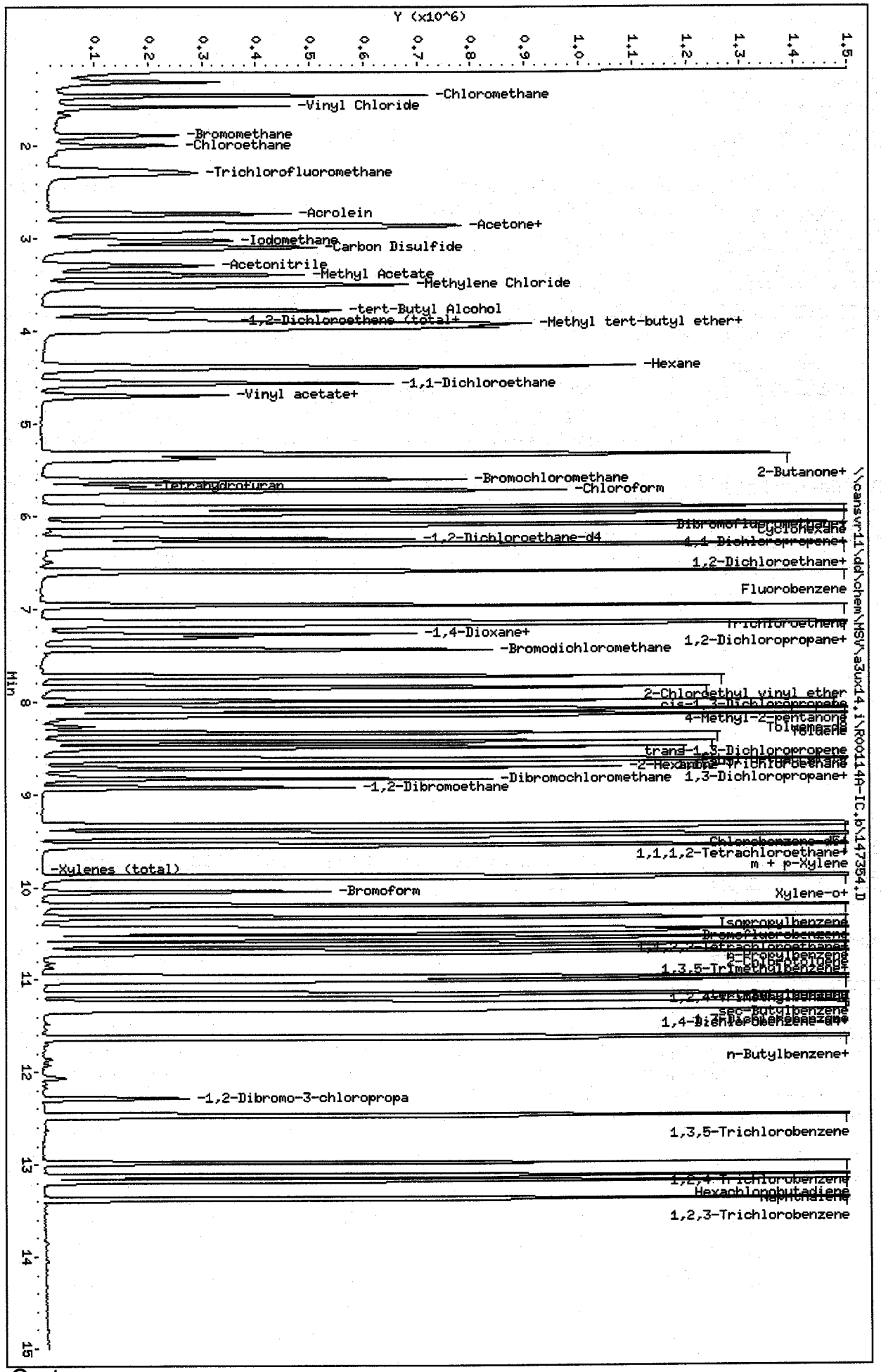
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147354.D
Lab Smp Id: 250NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1619446	0.00
2 Chlorobenzene-d5	1224767	612384	2449534	1224767	0.00
3 1,4-Dichlorobenze	643485	321743	1286970	643485	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R001140-IC.b\147354.D
Date : 14-JAN-2010 11:29
Client ID:
Sample Info: 250NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Lab Smp Id: 100NG-IC
Inj Date : 14-JAN-2010 11:51
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 100NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	6.599	6.599	(1.000)	1524542	250.000	
* 2	Chlorobenzene-d5	117	9.333	9.333	(1.000)	1117293	250.000	
* 3	1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	622493	250.000	
$ 4	Dibromofluoromethane	113	5.901	5.901	(0.894)	159829	100.000	95.159
$ 5	1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	170851	100.000	99.214
$ 6	Toluene-d8	98	8.090	8.090	(0.867)	591596	100.000	97.671
$ 7	Bromofluorobenzene	95	10.327	10.327	(0.913)	222771	100.000	96.515
8	Dichlorodifluoromethane	85	1.310	1.310	(0.199)	157552	100.000	102.18
9	Chloromethane	50	1.452	1.452	(0.220)	216823	100.000	97.264
10	Vinyl Chloride	62	1.570	1.570	(0.238)	171915	100.000	102.24
12	Chloroethane	64	1.996	1.996	(0.303)	92672	100.000	93.458
13	Trichlorofluoromethane	101	2.280	2.280	(0.346)	168340	100.000	103.96
15	Acrolein	56	2.730	2.730	(0.414)	212537	1000.00	1109.2
16	Acetone	43	2.931	2.931	(0.444)	130272	200.000	202.93
17	1,1-Dichloroethene	96	2.860	2.860	(0.433)	146545	100.000	100.61
18	Freon-113	151	2.895	2.895	(0.439)	121696	100.000	104.03
19	Iodomethane	142	3.026	3.026	(0.459)	243565	100.000	98.109
20	Carbon Disulfide	76	3.097	3.097	(0.469)	413393	100.000	99.087
21	Methylene Chloride	84	3.511	3.511	(0.532)	190625	100.000	97.534
22	Acetonitrile	41	3.298	3.298	(0.500)	208855	1000.00	1032.7
23	Acrylonitrile	53	3.889	3.889	(0.589)	131345	200.000	218.90
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	399967	100.000	105.69

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	167162	100.000	98.825
26	Hexane	86	4.398	4.398	(0.666)	38663	100.000	99.048
27	Vinyl acetate	43	4.694	4.694	(0.711)	204087	100.000	104.58
154	Vinyl Acetate**2nd**	86	4.706	4.706	(0.713)	17224	100.000	99.058(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	304389	100.000	100.57
29	tert-Butyl Alcohol	59	3.783	3.783	(0.573)	294803	2000.00	2137.8
30	2-Butanone	43	5.380	5.380	(0.815)	157415	200.000	201.50
M 31	1,2-Dichloroethene (total)	96				344674	200.000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	177512	100.000	102.42
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	119677	100.000	101.06
34	Bromochloromethane	128	5.605	5.605	(0.849)	82903	100.000	98.414
35	Chloroform	83	5.724	5.724	(0.867)	277362	100.000	99.971
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	49016	100.000	96.865
37	1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	200408	100.000	99.898
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	218336	100.000	103.79
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	177493	100.000	101.79
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	209132	100.000	101.84
41	Benzene	78	6.303	6.303	(0.955)	641858	100.000	97.405
42	Trichloroethene	130	6.966	6.966	(1.056)	178035	100.000	98.029
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	165683	100.000	100.36
44	1,4-Dioxane	88	7.309	7.309	(1.108)	77848	5000.00	5715.2
45	Dibromomethane	93	7.274	7.274	(1.102)	82647	100.000	98.308
46	Bromodichloromethane	83	7.439	7.439	(1.127)	173236	100.000	101.66
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	134569	200.000	216.59
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	204616	100.000	97.624
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	295572	200.000	219.06
50	Toluene	91	8.149	8.149	(0.873)	657053	100.000	99.566
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	164610	100.000	94.913
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	145998	100.000	106.24
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	119280	100.000	101.32
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	199819	100.000	101.31
55	Tetrachloroethene	164	8.623	8.623	(0.924)	137025	100.000	98.352
56	2-Hexanone	43	8.717	8.717	(0.934)	201802	200.000	217.09
57	Dibromochloromethane	129	8.836	8.836	(0.947)	126112	100.000	102.63
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	117844	100.000	103.68
59	Chlorobenzene	112	9.356	9.356	(1.003)	444051	100.000	97.896
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	147909	100.000	102.81
61	Ethylbenzene	106	9.451	9.451	(1.013)	240099	100.000	102.70
62	m + p-Xylene	106	9.557	9.557	(1.024)	593956	200.000	209.99
64	Xylene-o	106	9.889	9.889	(1.060)	280569	100.000	105.28
65	Styrene	104	9.901	9.901	(1.061)	444614	100.000	104.95
66	Bromoform	173	10.054	10.054	(1.077)	75491	100.000	101.47
67	Isopropylbenzene	105	10.196	10.196	(1.093)	748072	100.000	104.59
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	154708	100.000	101.32
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	48194	100.000	101.72
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	43723	100.000	98.804
71	Bromobenzene	156	10.457	10.457	(0.925)	183855	100.000	100.31
72	n-Propylbenzene	120	10.551	10.551	(0.933)	212438	100.000	99.688
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	186417	100.000	107.53
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	623528	100.000	105.64
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	190557	100.000	104.10
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	562162	100.000	102.86
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	628333	100.000	104.30
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	801317	100.000	101.95

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	657645	100.000	98.452
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	345050	100.000	99.157
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	356765	100.000	96.641
82	n-Butylbenzene	91	11.616	11.616	(1.027)	557485	100.000	96.184
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	324984	100.000	99.748
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	26408	100.000	100.21
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	213187	100.000	101.11
87	Naphthalene	128	13.178	13.178	(1.165)	501916	100.000	103.44
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	136835	100.000	101.24
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	220567	100.000	106.20
98	Cyclohexane	56	5.972	5.972	(0.905)	374397	100.000	104.60
143	Methyl Acetate	43	3.392	3.392	(0.514)	302568	200.000	204.20
144	Methylcyclohexane	83	7.143	7.143	(1.082)	316390	100.000	103.39
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	248493	100.000	99.953

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

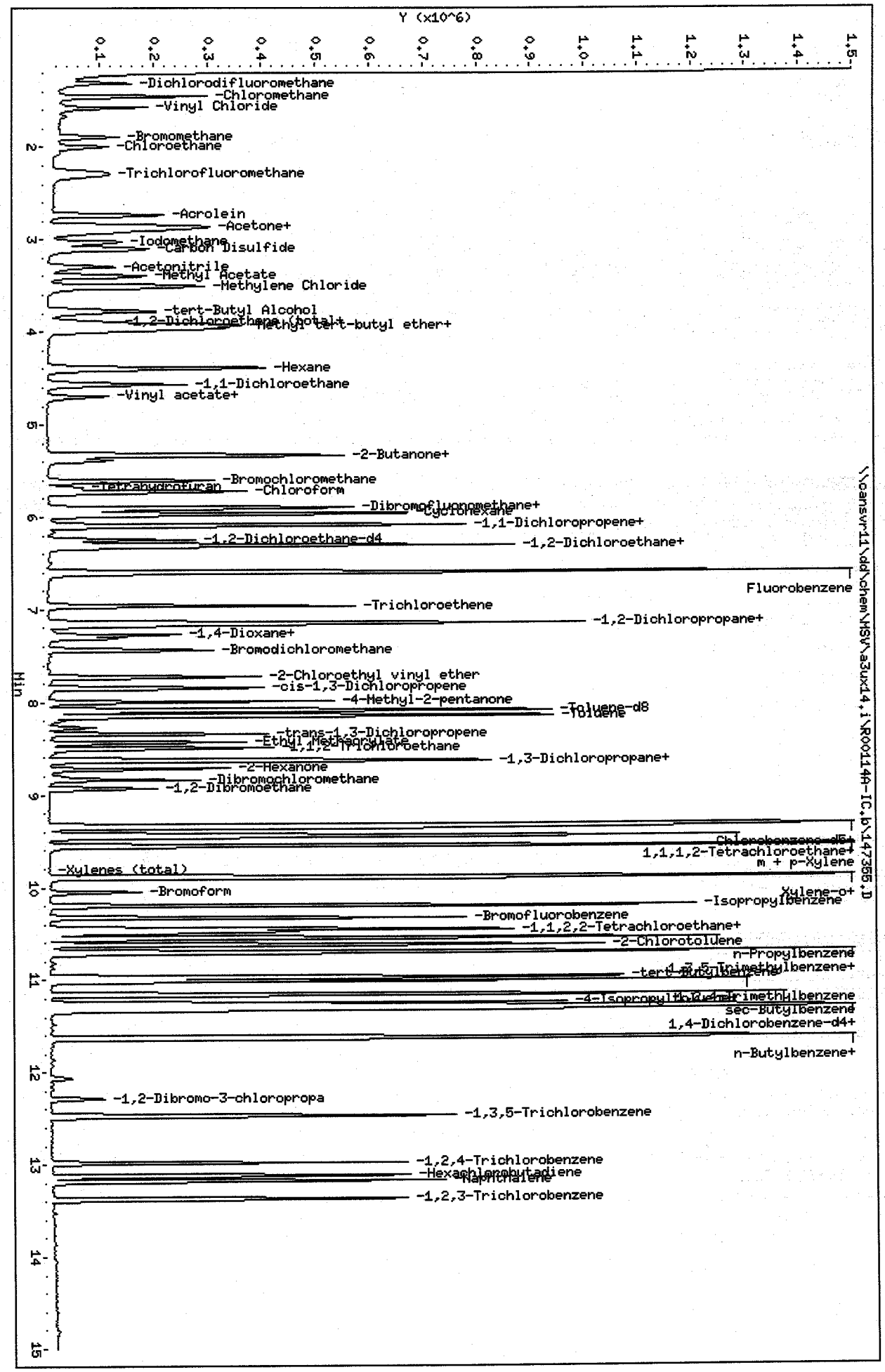
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147355.D
Lab Smp Id: 100NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1524542	-5.86
2 Chlorobenzene-d5	1224767	612384	2449534	1117293	-8.78
3 1,4-Dichlorobenze	643485	321743	1286970	622493	-3.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D

Date : 14-JAN-2010 11:51

Client ID:

Sample Info: 100NG-IC

Purge Volume: 5.0

Column phase: DB624

Instrument: a3ux14.i

Operator: 2807

Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Lab Smp Id: 50NG-IC
Inj Date : 14-JAN-2010 12:14
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:39 Cal File: 147365.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1463571	250.000	
*	2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1080998	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	616871	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	76759	50.0000	47.604
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	82563	50.0000	49.942
$	6 Toluene-d8	98	8.090	8.090	(0.867)	281363	50.0000	48.012
$	7 Bromofluorobenzene	95	10.326	10.326	(0.913)	110713	50.0000	48.403
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	77815	50.0000	52.567
	9 Chloromethane	50	1.452	1.452	(0.220)	109690	50.0000	51.255
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	82970	50.0000	51.400
	12 Chloroethane	64	1.996	1.996	(0.303)	48552	50.0000	51.004
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	83485	50.0000	53.704
	15 Acrolein	56	2.730	2.730	(0.414)	89612	500.000	487.16
	16 Acetone	43	2.931	2.931	(0.444)	72936	100.000	118.35
	17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	70966	50.0000	50.750
	18 Freon-113	151	2.884	2.884	(0.437)	59930	50.0000	53.365
	19 Iodomethane	142	3.026	3.026	(0.459)	122149	50.0000	51.252
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	204194	50.0000	50.982
	21 Methylene Chloride	84	3.511	3.511	(0.532)	109609	50.0000	58.418
	22 Acetonitrile	41	3.298	3.298	(0.500)	100062	500.000	515.39
	23 Acrylonitrile	53	3.889	3.889	(0.589)	58829	100.000	102.13
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	186667	50.0000	51.381

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	82296	50.0000	50.680
26	Hexane	86	4.386	4.386	(0.665)	18166	50.0000	48.477
27	Vinyl acetate	43	4.694	4.694	(0.711)	88798	50.0000	47.398
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	7596	50.0000	45.506(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	147729	50.0000	50.841
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	131129	1000.00	990.49
30	2-Butanone	43	5.380	5.380	(0.815)	72329	100.000	96.440
M 31	1,2-Dichloroethene (total)	96				168654	100.000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	86358	50.0000	51.903
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	58168	50.0000	51.164
34	Bromochloromethane	128	5.605	5.605	(0.849)	40704	50.0000	50.333
35	Chloroform	83	5.723	5.723	(0.867)	136764	50.0000	51.348
36	Tetrahydrofuran	42	5.688	5.688	(0.862)	23581	50.0000	48.542
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	102584	50.0000	53.266
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	105034	50.0000	52.008
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	89315	50.0000	53.357
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	96980	50.0000	49.196
41	Benzene	78	6.303	6.303	(0.955)	320643	50.0000	50.686
42	Trichloroethene	130	6.966	6.966	(1.056)	89775	50.0000	51.491
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	79696	50.0000	50.287
44	1,4-Dioxane	88	7.309	7.309	(1.108)	34138	2500.00	2610.6
45	Dibromomethane	93	7.274	7.274	(1.102)	40622	50.0000	50.332
46	Bromodichloromethane	83	7.439	7.439	(1.127)	82425	50.0000	50.382
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	55693	100.000	93.372
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	92612	50.0000	46.027
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	125166	100.000	95.881
50	Toluene	91	8.137	8.137	(0.872)	316964	50.0000	49.643
51	trans-1,3-Dichloropropene	75	8.338	8.338	(0.893)	74151	50.0000	44.190
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	60861	50.0000	45.773
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	54001	50.0000	47.412
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	94748	50.0000	49.652
55	Tetrachloroethene	164	8.622	8.622	(0.924)	68765	50.0000	51.014
56	2-Hexanone	43	8.717	8.717	(0.934)	82817	100.000	92.084
57	Dibromochloromethane	129	8.835	8.835	(0.947)	59231	50.0000	49.820
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	53071	50.0000	48.260
59	Chlorobenzene	112	9.356	9.356	(1.003)	217526	50.0000	49.566
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	71037	50.0000	51.037
61	Ethylbenzene	106	9.451	9.451	(1.013)	115843	50.0000	51.213
62	m + p-Xylene	106	9.557	9.557	(1.024)	288517	100.000	105.43
64	Xylene-o	106	9.889	9.889	(1.060)	134194	50.0000	52.044
65	Styrene	104	9.900	9.900	(1.061)	199347	50.0000	48.637
66	Bromoform	173	10.054	10.054	(1.077)	34675	50.0000	48.172
67	Isopropylbenzene	105	10.196	10.196	(1.093)	350644	50.0000	50.671
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	74500	50.0000	49.233
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	22765	50.0000	48.489
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	21471	50.0000	48.962
71	Bromobenzene	156	10.457	10.457	(0.925)	88463	50.0000	48.706
72	n-Propylbenzene	120	10.551	10.551	(0.933)	98133	50.0000	46.469
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	87448	50.0000	50.900
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	290336	50.0000	49.640
75	4-Chlorotoluene	126	10.705	10.705	(0.947)	93314	50.0000	51.440
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	263096	50.0000	48.580
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	298774	50.0000	50.045
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	382601	50.0000	49.124

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	307172	50.0000	46.404
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	168793	50.0000	48.948
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	176132	50.0000	48.146
82	n-Butylbenzene	91	11.616	11.616	(1.027)	265064	50.0000	46.149
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	159501	50.0000	49.402
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	12339	50.0000	47.249
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	102810	50.0000	49.207
87	Naphthalene	128	13.178	13.178	(1.165)	218045	50.0000	45.346
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	63481	50.0000	47.398
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	100686	50.0000	48.922
98	Cyclohexane	56	5.960	5.960	(0.903)	172564	50.0000	50.221
143	Methyl Acetate	43	3.392	3.392	(0.514)	139260	100.000	97.903
144	Methylcyclohexane	83	7.143	7.143	(1.082)	148556	50.0000	50.566
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	118897	50.0000	48.260

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

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Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147356.D
Lab Smp Id: 50NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,4

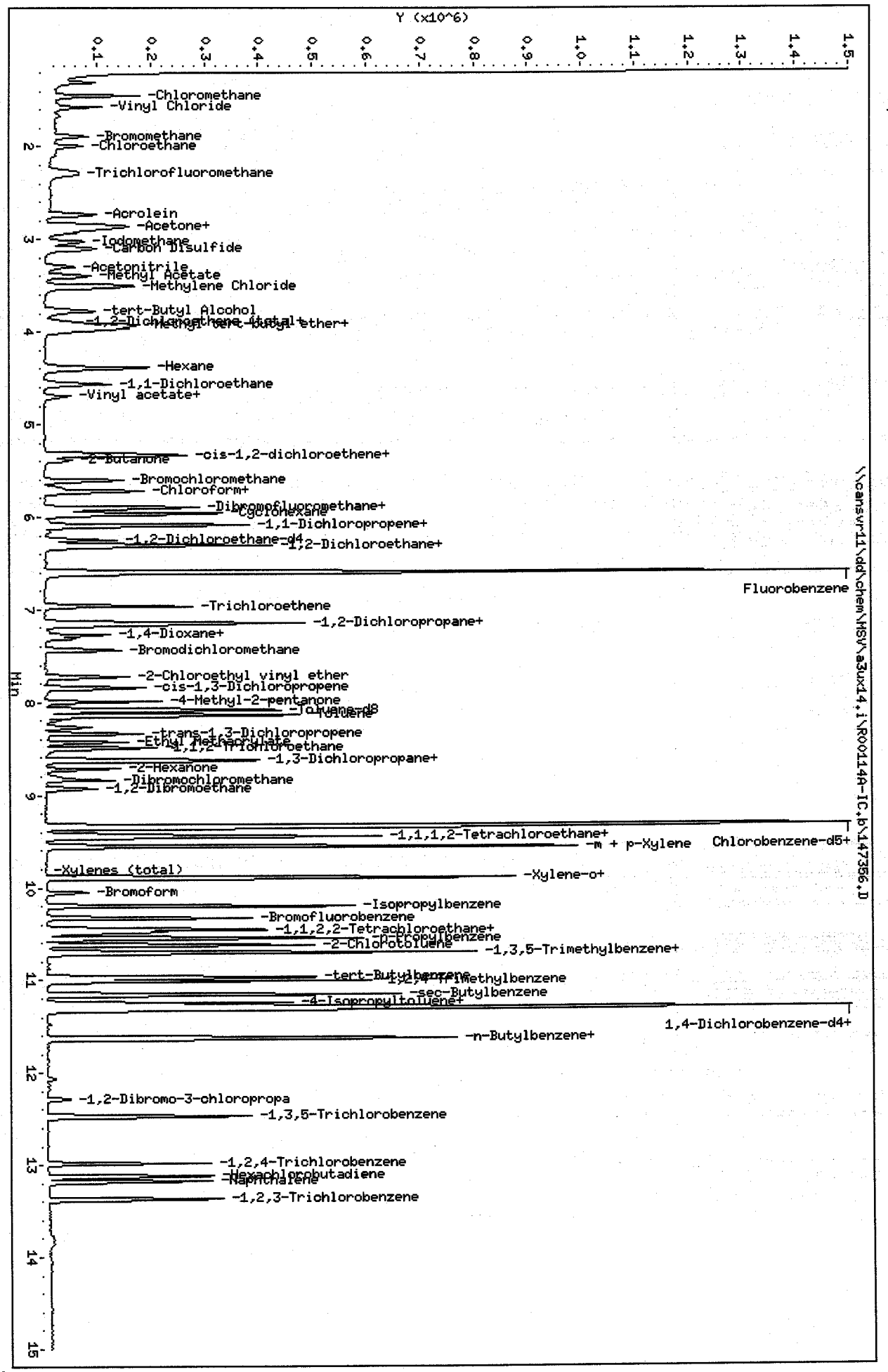
Calibration Date: 14-JAN-2010
Calibration Time: 11:29

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1463571	-9.63
2 Chlorobenzene-d5	1224767	612384	2449534	1080998	-11.74
3 1,4-Dichlorobenze	643485	321743	1286970	616871	-4.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\HSV\a3ux14,i\R00114A-IC,b\147356,D

Date : 14-JAN-2010 12:14

Client ID:

Sample Info: 50NG-IC

Purge Volume: 5.0

Column phase: DB624

Instrument: a3ux14,i

Operator: 2807

Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Lab Smp Id: 25NG-IC
Inj Date : 14-JAN-2010 12:36
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 25NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:03 Cal File: 147366.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1458359	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1056066	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	618283	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	40283	25.0000	25.072
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	44575	25.0000	27.060
$	6 Toluene-d8	98	8.090	8.090	(0.867)	139454	25.0000	24.358
$	7 Bromofluorobenzene	95	10.327	10.327	(0.913)	57323	25.0000	25.004
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	42747	25.0000	28.981
	9 Chloromethane	50	1.452	1.452	(0.220)	56339	25.0000	26.420
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	43093	25.0000	26.792
	12 Chloroethane	64	1.996	1.996	(0.303)	25001	25.0000	26.357
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	40226	25.0000	25.969
	15 Acrolein	56	2.742	2.742	(0.416)	47730	250.000	260.40
	16 Acetone	43	2.943	2.943	(0.446)	45722	50.0000	74.454
	17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	36277	25.0000	26.036
	18 Freon-113	151	2.896	2.896	(0.439)	28657	25.0000	25.609
	19 Iodomethane	142	3.026	3.026	(0.459)	60346	25.0000	25.411
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	99492	25.0000	24.930
	21 Methylene Chloride	84	3.511	3.511	(0.532)	66631	25.0000	35.639
	22 Acetonitrile	41	3.298	3.298	(0.500)	51022	250.000	263.74
	23 Acrylonitrile	53	3.890	3.890	(0.589)	27794	50.0000	48.424
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	85837	25.0000	23.711

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.937	3.937	(0.597)	41047	25.0000	25.368
26	Hexane	86	4.398	4.398	(0.666)	9256	25.0000	24.788
27	Vinyl acetate	43	4.694	4.694	(0.711)	40408	25.0000	21.646
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	3247	25.0000	19.521(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	75301	25.0000	26.008
29	tert-Butyl Alcohol	59	3.783	3.783	(0.573)	60293	500.000	457.05
30	2-Butanone	43	5.392	5.392	(0.817)	33392	50.0000	44.683
M 31	1,2-Dichloroethene (total)	96				82841	50.0000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	41794	25.0000	25.209
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	26605	25.0000	23.485
34	Bromochloromethane	128	5.605	5.605	(0.849)	20156	25.0000	25.013
35	Chloroform	83	5.724	5.724	(0.867)	66642	25.0000	25.110
36	Tetrahydrofuran	42	5.688	5.688	(0.862)	12410	25.0000	25.637
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	46501	25.0000	24.232
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	51061	25.0000	25.373
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	40999	25.0000	24.580
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	51559	25.0000	26.248
41	Benzene	78	6.303	6.303	(0.955)	158995	25.0000	25.223
42	Trichloroethene	130	6.966	6.966	(1.056)	42633	25.0000	24.540
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	39343	25.0000	24.914
44	1,4-Dioxane	88	7.321	7.321	(1.109)	15184	1250.00	1165.3
45	Dibromomethane	93	7.274	7.274	(1.102)	20490	25.0000	25.479
46	Bromodichloromethane	83	7.439	7.439	(1.127)	38025	25.0000	23.326
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	23645	50.0000	39.784
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	40230	25.0000	20.065
49	4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	53715	50.0000	42.119
50	Toluene	91	8.149	8.149	(0.873)	153825	25.0000	24.661
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	33225	25.0000	20.268
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	27032	25.0000	20.811
53	1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	28621	25.0000	25.722
54	1,3-Dichloropropane	76	8.635	8.635	(0.925)	46308	25.0000	24.840
55	Tetrachloroethene	164	8.623	8.623	(0.924)	34411	25.0000	26.131
56	2-Hexanone	43	8.717	8.717	(0.934)	36831	50.0000	41.919
57	Dibromochloromethane	129	8.836	8.836	(0.947)	25619	25.0000	22.057
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	25227	25.0000	23.482
59	Chlorobenzene	112	9.356	9.356	(1.003)	105867	25.0000	24.693
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	32575	25.0000	23.956
61	Ethylbenzene	106	9.451	9.451	(1.013)	52596	25.0000	23.801
62	m + p-Xylene	106	9.558	9.558	(1.024)	131100	50.0000	49.038
64	Xylene-o	106	9.889	9.889	(1.060)	59806	25.0000	23.742
65	Styrene	104	9.901	9.901	(1.061)	87994	25.0000	21.976
66	Bromoform	173	10.054	10.054	(1.077)	14863	25.0000	21.136
67	Isopropylbenzene	105	10.196	10.196	(1.093)	158090	25.0000	23.384
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	35362	25.0000	23.316
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	9788	25.0000	20.801
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	10615	25.0000	24.151
71	Bromobenzene	156	10.457	10.457	(0.925)	43431	25.0000	23.858
72	n-Propylbenzene	120	10.551	10.551	(0.933)	44997	25.0000	21.259
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	41522	25.0000	24.113
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	130679	25.0000	22.292
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	45182	25.0000	24.850
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	121534	25.0000	22.390
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	137019	25.0000	22.898
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	181887	25.0000	23.300

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	142199	25.0000	21.433
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	84649	25.0000	24.491
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	91975	25.0000	25.084
82	n-Butylbenzene	91	11.616	11.616	(1.027)	123143	25.0000	21.391
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	81988	25.0000	25.336
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	5733	25.0000	21.903
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	47317	25.0000	22.595
87	Naphthalene	128	13.178	13.178	(1.165)	90083	25.0000	18.691
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	31747	25.0000	23.650
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	46925	25.0000	22.748
98	Cyclohexane	56	5.972	5.972	(0.905)	77499	25.0000	22.635
143	Methyl Acetate	43	3.404	3.404	(0.516)	68922	50.0000	48.627
144	Methylcyclohexane	83	7.144	7.144	(1.082)	68076	25.0000	23.255
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	59916	25.0000	24.264

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

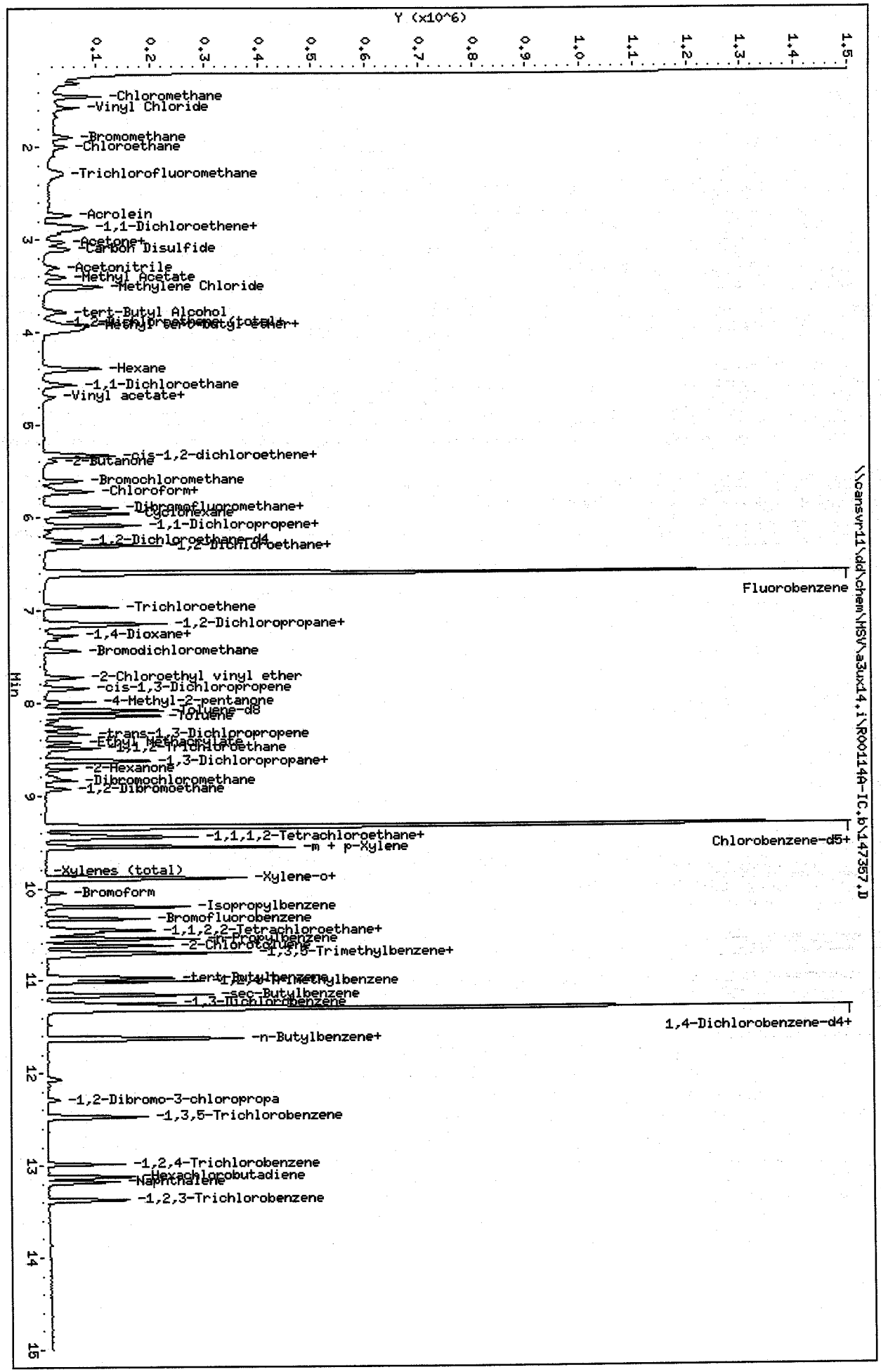
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147357.D
Lab Smp Id: 25NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1458359	-9.95
2 Chlorobenzene-d5	1224767	612384	2449534	1056066	-13.77
3 1,4-Dichlorobenze	643485	321743	1286970	618283	-3.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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Date : 14-JAN-2010 12:36
Client ID:
Sample Info: 25NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\MSV\a3ux14.i\R001140-IC.b\147357.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Lab Smp Id: 10NG-IC
Inj Date : 14-JAN-2010 12:59
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 10NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:27 Cal File: 147367.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1356303	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1001973	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	569171	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	16252	10.0000	10.876
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	18464	10.0000	12.052
$	6 Toluene-d8	98	8.090	8.090	(0.867)	51325	10.0000	9.449
$	7 Bromofluorobenzene	95	10.327	10.327	(0.913)	22887	10.0000	10.845
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	12281	10.0000	8.952
	9 Chloromethane	50	1.452	1.452	(0.220)	19798	10.0000	9.983
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	15372	10.0000	10.276
	12 Chloroethane	64	1.996	1.996	(0.303)	9754	10.0000	11.057
	13 Trichlorofluoromethane	101	2.280	2.280	(0.346)	13307	10.0000	9.237
	15 Acrolein	56	2.730	2.730	(0.414)	19778	100.000	116.02
	16 Acetone	43	2.931	2.931	(0.444)	27842	20.0000	48.750
	17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	12381	10.0000	9.554
	18 Freon-113	151	2.884	2.884	(0.437)	9942	10.0000	9.553
	19 Iodomethane	142	3.026	3.026	(0.459)	22706	10.0000	10.280
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	36467	10.0000	9.825
	21 Methylene Chloride	84	3.511	3.511	(0.532)	43300	10.0000	24.903
	22 Acetonitrile	41	3.298	3.298	(0.500)	21714	100.000	120.69
	23 Acrylonitrile	53	3.890	3.890	(0.589)	10994	20.0000	20.595
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	30383	10.0000	9.024

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	15115	10.0000	10.044
	26 Hexane	86	4.398	4.398	(0.666)	3211	10.0000	9.246
	27 Vinyl acetate	43	4.694	4.694	(0.711)	14418	10.0000	8.305
	154 Vinyl Acetate**2nd**	86	4.706	4.706	(0.713)	1148	10.0000	7.421(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	27135	10.0000	10.077
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	21779	200.000	177.52
	30 2-Butanone	43	5.392	5.392	(0.817)	14454	20.0000	20.796
M	31 1,2-Dichloroethene (total)	96				30217	20.0000	
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	15102	10.0000	9.794
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	9587	10.0000	9.100
	34 Bromochloromethane	128	5.605	5.605	(0.849)	7484	10.0000	9.986
	35 Chloroform	83	5.724	5.724	(0.867)	24256	10.0000	9.827
	36 Tetrahydrofuran	42	5.688	5.688	(0.862)	5059	10.0000	11.238
	37 1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	16829	10.0000	9.429
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	16552	10.0000	8.844
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	15047	10.0000	9.700
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	17776	10.0000	9.730
	41 Benzene	78	6.303	6.303	(0.955)	60909	10.0000	10.390
	42 Trichloroethene	130	6.966	6.966	(1.056)	16673	10.0000	10.319
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	14391	10.0000	9.799
	44 1,4-Dioxane	88	7.321	7.321	(1.109)	4795	500.000	395.69
	45 Dibromomethane	93	7.274	7.274	(1.102)	6849	10.0000	9.157
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	14054	10.0000	9.270
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	7878	20.0000	14.252
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	13722	10.0000	7.359
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	19225	20.0000	15.888
	50 Toluene	91	8.138	8.138	(0.872)	55483	10.0000	9.375
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	11733	10.0000	7.544
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	8671	10.0000	7.036
	53 1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	9921	10.0000	9.397
	54 1,3-Dichloropropane	76	8.635	8.635	(0.925)	16803	10.0000	9.500
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	12388	10.0000	9.915
	56 2-Hexanone	43	8.717	8.717	(0.934)	13235	20.0000	15.877
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	9391	10.0000	8.522
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	9000	10.0000	8.830
	59 Chlorobenzene	112	9.356	9.356	(1.003)	41241	10.0000	10.138
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	12574	10.0000	9.746
	61 Ethylbenzene	106	9.451	9.451	(1.013)	19725	10.0000	9.408
	62 m + p-Xylene	106	9.557	9.557	(1.024)	45348	20.0000	17.878
	64 Xylene-o	106	9.889	9.889	(1.060)	21615	10.0000	9.044
	65 Styrene	104	9.901	9.901	(1.061)	28792	10.0000	7.579
	66 Bromoform	173	10.054	10.054	(1.077)	5798	10.0000	8.690
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	49371	10.0000	7.697
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	14099	10.0000	10.098
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	3853	10.0000	8.895
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	4170	10.0000	10.306
	71 Bromobenzene	156	10.457	10.457	(0.925)	16305	10.0000	9.730
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	13321	10.0000	6.837
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	13684	10.0000	8.632
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	39148	10.0000	7.254
	75 4-Chlorotoluene	126	10.705	10.705	(0.947)	14971	10.0000	8.944
	76 tert-Butylbenzene	119	10.977	10.977	(0.971)	37681	10.0000	7.541
	77 1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	39477	10.0000	7.167
	78 sec-Butylbenzene	105	11.155	11.155	(0.986)	51764	10.0000	7.203

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	39794	10.0000	6.515
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	31768	10.0000	9.984
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	33681	10.0000	9.978
82	n-Butylbenzene	91	11.616	11.616	(1.027)	36528	10.0000	6.893
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	30480	10.0000	10.232
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	2080	10.0000	8.632
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	17257	10.0000	8.952
87	Naphthalene	128	13.178	13.178	(1.165)	30253	10.0000	6.819
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	11874	10.0000	9.609
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	17720	10.0000	9.331
98	Cyclohexane	56	5.960	5.960	(0.903)	25574	10.0000	8.031
143	Methyl Acetate	43	3.404	3.404	(0.516)	28015	20.0000	21.253
144	Methylcyclohexane	83	7.144	7.144	(1.082)	20465	10.0000	7.517
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	21462	10.0000	9.442

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

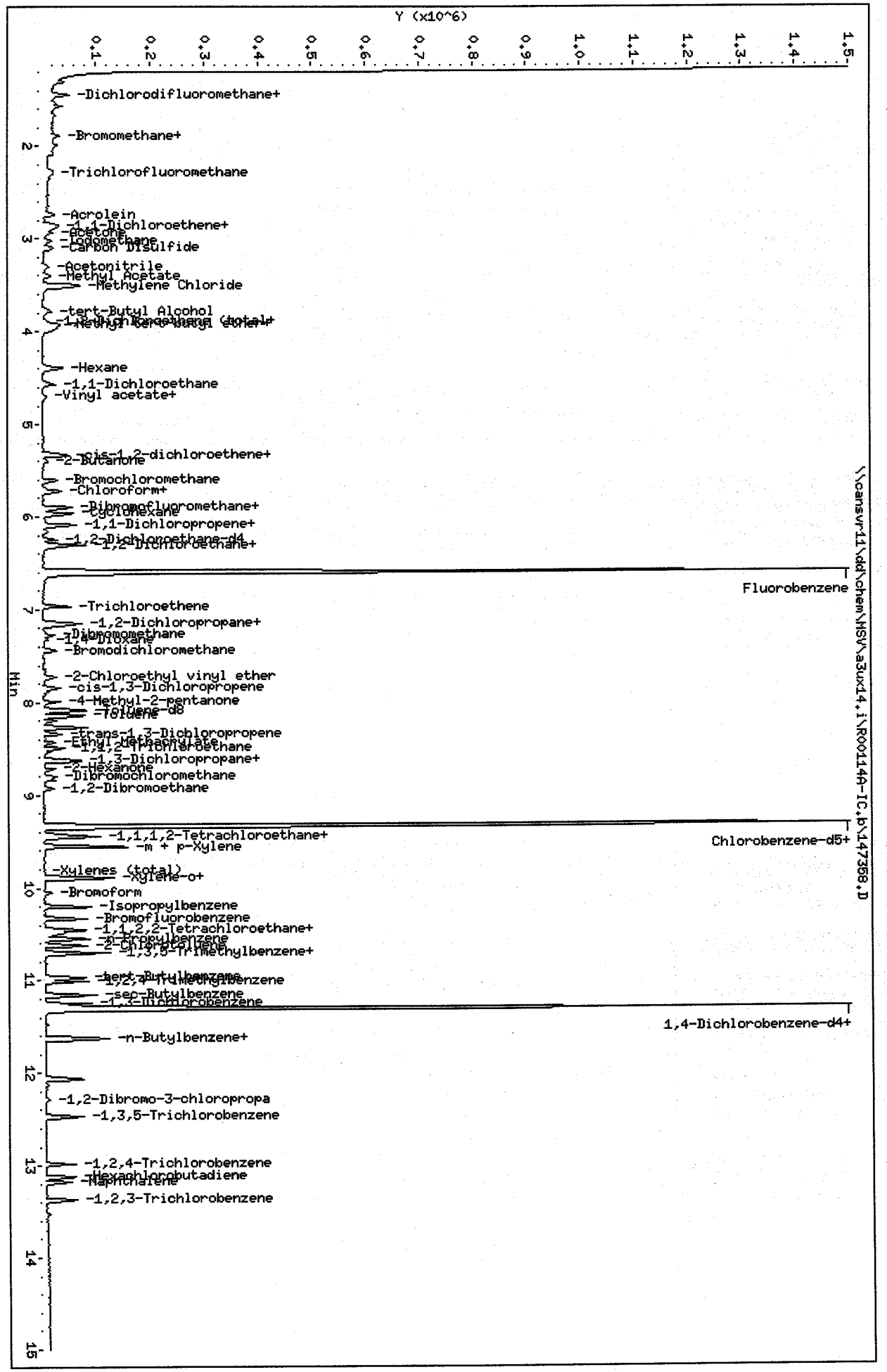
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147358.D
Lab Smp Id: 10NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1356303	-16.25
2 Chlorobenzene-d5	1224767	612384	2449534	1001973	-18.19
3 1,4-Dichlorobenze	643485	321743	1286970	569171	-11.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\HSV\a3ux14.i\R00114A-IC.b\147358.D
Date : 14-JAN-2010 12:59
Client ID:
Sample Info: 10NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane+
\\cansvr11\dd\chem\HSV\a3ux14.i\R00114A-IC.b\147358.D
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-1,4-Dioxane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-Trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Lab Smp Id: 5NG-IC
Inj Date : 14-JAN-2010 13:21
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 5NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:50 Cal File: 147368.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1372183	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1002461	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	555022	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	9676	5.00000	6.400
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	11539	5.00000	7.445
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	32138	5.00000	5.914
$ 7 Bromofluorobenzene	95	10.326	10.326	(0.913)	15167	5.00000	7.370
8 Dichlorodifluoromethane	85	1.310	1.310	(0.199)	6727	5.00000	4.847
9 Chloromethane	50	1.452	1.452	(0.220)	11735	5.00000	5.849
10 Vinyl Chloride	62	1.570	1.570	(0.238)	7286	5.00000	4.814
12 Chloroethane	64	1.996	1.996	(0.303)	5400	5.00000	6.050
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	6325	5.00000	4.340
15 Acrolein	56	2.742	2.742	(0.415)	9606	50.0000	55.699
16 Acetone	43	2.943	2.943	(0.446)	24140	10.0000	41.779
17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	7010	5.00000	5.347
18 Freon-113	151	2.895	2.895	(0.439)	4388	5.00000	4.168
19 Iodomethane	142	3.037	3.037	(0.460)	11304	5.00000	5.059
20 Carbon Disulfide	76	3.108	3.108	(0.471)	16799	5.00000	4.474
21 Methylene Chloride	84	3.511	3.511	(0.532)	35816	5.00000	20.360
22 Acetonitrile	41	3.298	3.298	(0.500)	12466	50.0000	68.485
23 Acrylonitrile	53	3.901	3.901	(0.591)	5419	10.0000	10.034
24 Methyl tert-butyl ether	73	3.984	3.984	(0.604)	14574	5.00000	4.279

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.937	3.937	(0.597)	8315	5.00000	5.462
26	Hexane	86	4.398	4.398	(0.666)	1871	5.00000	5.325
27	Vinyl acetate	43	4.694	4.694	(0.711)	7645	5.00000	4.352
154	Vinyl Acetate**2nd**	86	4.706	4.706	(0.713)	680	5.00000	4.345(aA)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	13067	5.00000	4.796
29	tert-Butyl Alcohol	59	3.783	3.783	(0.573)	11995	100.000	96.639
30	2-Butanone	43	5.392	5.392	(0.817)	8724	10.0000	12.407
M 31	1,2-Dichloroethene (total)	96				15763	10.0000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	7448	5.00000	4.774
34	Bromochloromethane	128	5.617	5.617	(0.851)	4258	5.00000	5.616
35	Chloroform	83	5.723	5.723	(0.867)	12911	5.00000	5.170
36	Tetrahydrofuran	42	5.688	5.688	(0.862)	3656	5.00000	8.027
37	1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	8120	5.00000	4.497
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	7874	5.00000	4.158
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	6150	5.00000	3.919
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	9644	5.00000	5.218
41	Benzene	78	6.303	6.303	(0.955)	29730	5.00000	5.013
42	Trichloroethene	130	6.966	6.966	(1.056)	7968	5.00000	4.874
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	6926	5.00000	4.661
44	1,4-Dioxane	88	7.321	7.321	(1.109)	2587	250.000	211.01
45	Dibromomethane	93	7.274	7.274	(1.102)	4148	5.00000	5.482
46	Bromodichloromethane	83	7.439	7.439	(1.127)	6789	5.00000	4.426
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	6079	5.00000	3.222
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	9457	10.0000	7.812
50	Toluene	91	8.149	8.149	(0.873)	27677	5.00000	4.674
51	trans-1,3-Dichloropropene	75	8.338	8.338	(0.893)	6272	5.00000	4.031
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	4328	5.00000	3.510
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	5544	5.00000	5.249
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	8265	5.00000	4.670
55	Tetrachloroethene	164	8.622	8.622	(0.924)	5917	5.00000	4.734
56	2-Hexanone	43	8.717	8.717	(0.934)	5958	10.0000	7.144
57	Dibromochloromethane	129	8.835	8.835	(0.947)	4605	5.00000	4.177
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	5369	5.00000	5.265
59	Chlorobenzene	112	9.356	9.356	(1.003)	21534	5.00000	5.291
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	5640	5.00000	4.370
61	Ethylbenzene	106	9.451	9.451	(1.013)	8713	5.00000	4.154
62	m + p-Xylene	106	9.557	9.557	(1.024)	20492	10.0000	8.075
64	Xylene-o	106	9.889	9.889	(1.060)	10317	5.00000	4.315
65	Styrene	104	9.900	9.900	(1.061)	13216	5.00000	3.477
66	Bromoform	173	10.054	10.054	(1.077)	2786	5.00000	4.174
67	Isopropylbenzene	105	10.196	10.196	(1.093)	22834	5.00000	3.558
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	6378	5.00000	4.685
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	1956	5.00000	4.630
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	1906	5.00000	4.831
71	Bromobenzene	156	10.457	10.457	(0.925)	7878	5.00000	4.821
72	n-Propylbenzene	120	10.551	10.551	(0.933)	6182	5.00000	3.254
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	6188	5.00000	4.003
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	16183	5.00000	3.075
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	7022	5.00000	4.302
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	15330	5.00000	3.146
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	17135	5.00000	3.190
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	21791	5.00000	3.110
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	17593	5.00000	2.954
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	15514	5.00000	5.000

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81 1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	19341	5.00000	5.876
82 n-Butylbenzene	91	11.616	11.616	(1.027)	17576	5.00000	3.401
83 1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	14785	5.00000	5.090
84 1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	742	5.00000	3.158
85 1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	8165	5.00000	4.343
87 Naphthalene	128	13.178	13.178	(1.165)	15306	5.00000	3.538
86 Hexachlorobutadiene	225	13.131	13.131	(1.161)	5734	5.00000	4.758
88 1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	8792	5.00000	4.748
98 Cyclohexane	56	5.972	5.972	(0.905)	11321	5.00000	3.514
143 Methyl Acetate	43	3.404	3.404	(0.516)	15423	10.0000	11.565
144 Methylcyclohexane	83	7.143	7.143	(1.082)	9099	5.00000	3.303
141 1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	9915	5.00000	4.473

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

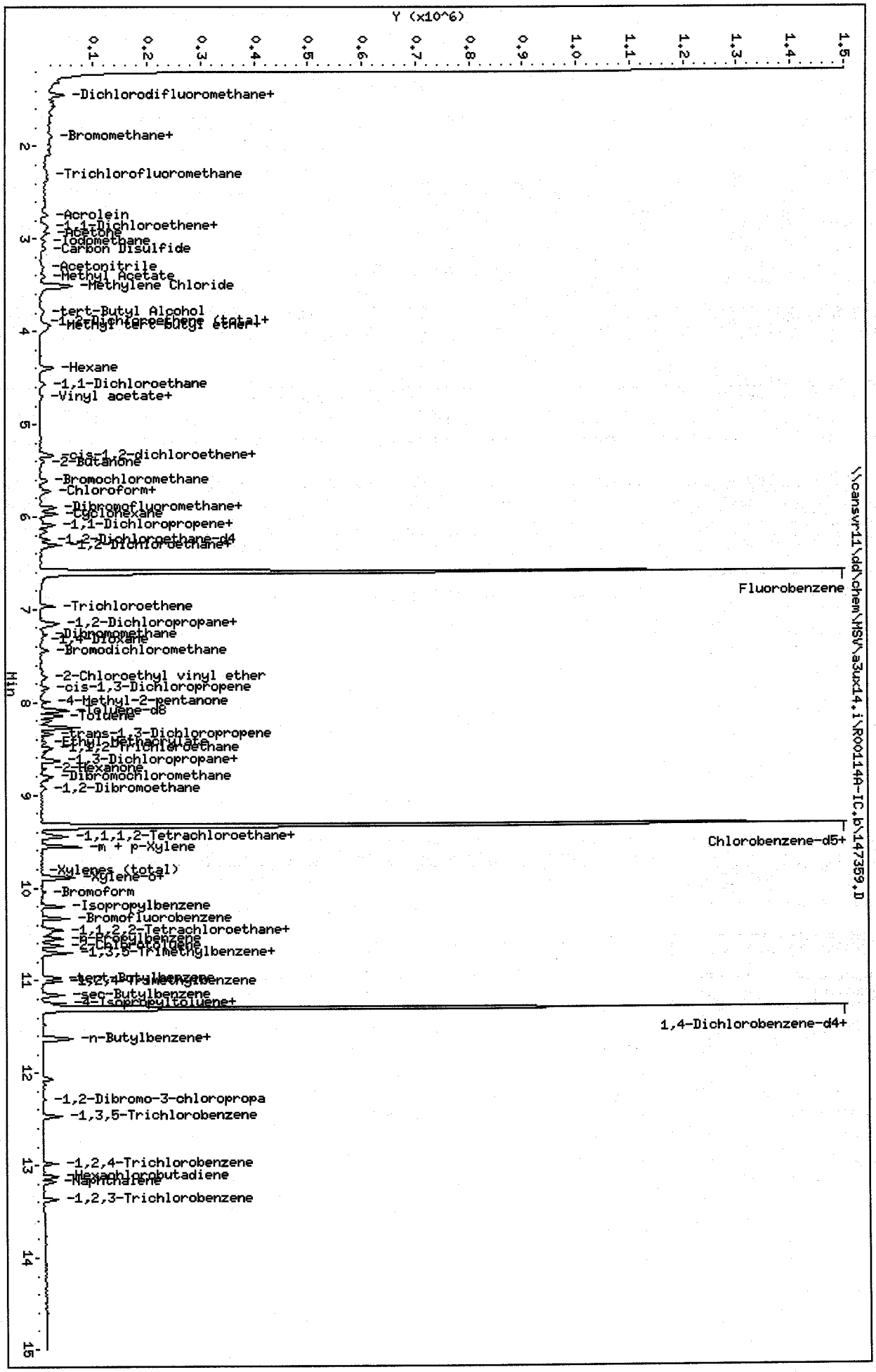
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147359.D
Lab Smp Id: 5NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,1

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1372183	-15.27
2 Chlorobenzene-d5	1224767	612384	2449534	1002461	-18.15
3 1,4-Dichlorobenze	643485	321743	1286970	555022	-13.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Date : 14-JAN-2010 13:21
Client ID:
Sample Info: 5NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Lab Smp Id: CHECKDUP/ICV
Inj Date : 14-JAN-2010 18:00
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP/ICV
Misc Info : R00114A-IC,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:27 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 21 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1426776	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.332	(1.000)	1018266	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	585686	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	372221	236.798	47.360
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	373759	231.917	46.383
$	6 Toluene-d8	98	8.090	8.090	(0.867)	1388680	251.564	50.313
$	7 Bromofluorobenzene	95	10.326	10.326	(0.913)	525978	242.199	48.440
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	303955	210.630	42.126
	9 Chloromethane	50	1.452	1.452	(0.220)	469869	225.220	45.044
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	348368	221.382	44.276
	11 Bromomethane	94	1.890	1.878	(0.286)	160709	209.172	41.834
	12 Chloroethane	64	1.996	1.996	(0.303)	199943	215.457	43.091
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	421357	278.039	55.608
	15 Acrolein	56	2.730	2.730	(0.414)	145532	811.565	162.31
	16 Acetone	43	2.943	2.931	(0.446)	130741	244.205	48.841
	17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	369801	271.279	54.256
	18 Freon-113	151	2.895	2.884	(0.439)	320123	292.408	58.482
	19 Iodomethane	142	3.026	3.026	(0.459)	601965	259.089	51.818
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	1026347	262.863	52.573
	21 Methylene Chloride	84	3.511	3.499	(0.532)	382573	248.057	49.611
	22 Acetonitrile	41	3.298	3.286	(0.500)	125368	662.387	132.48
	23 Acrylonitrile	53	3.889	3.889	(0.589)	405544	722.193	144.44

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	920036	259.773	51.955
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	401619	253.705	50.741
26	Hexane	86	4.398	4.386	(0.666)	97485	266.852	53.370
27	Vinyl acetate	43	4.694	4.694	(0.711)	633704	346.979	69.396(R)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	50554	310.665	62.133(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	727312	256.761	51.352
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	611660	4739.35	947.87
30	2-Butanone	43	5.380	5.380	(0.815)	161404	220.759	44.152
M 31	1,2-Dichloroethene (total)	96				805843	502.917	100.58
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	404224	249.212	49.842
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	248165	223.913	44.782
34	Bromochloromethane	128	5.605	5.605	(0.849)	192355	243.992	48.798
35	Chloroform	83	5.723	5.723	(0.867)	646879	249.134	49.827
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	112132	236.778	47.356
37	1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	483545	257.551	51.510
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	514823	261.491	52.298
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	474144	290.561	58.112
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	480819	250.199	50.040
41	Benzene	78	6.303	6.303	(0.955)	1510067	244.862	48.972
42	Trichloroethene	130	6.966	6.966	(1.056)	417600	245.694	49.139
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	390891	253.007	50.601
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.274	7.274	(1.102)	197203	250.644	50.129
46	Bromodichloromethane	83	7.439	7.439	(1.127)	417213	261.597	52.319
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	155460	217.992	43.598
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	465316	237.220	47.444
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	311833	253.590	50.718
50	Toluene	91	8.137	8.137	(0.872)	1509885	251.050	50.210
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.893)	385201	243.704	48.741
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	258070	240.539	48.108
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	447358	248.879	49.776
55	Tetrachloroethene	164	8.623	8.623	(0.924)	307711	242.343	48.468
56	2-Hexanone	43	8.717	8.717	(0.934)	200110	236.210	47.242
57	Dibromochloromethane	129	8.836	8.836	(0.947)	294409	262.886	52.577
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	255921	247.056	49.411
59	Chlorobenzene	112	9.356	9.356	(1.003)	966289	233.746	46.749
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	348289	265.646	53.129
61	Ethylbenzene	106	9.451	9.451	(1.013)	545137	255.847	51.169
62	m + p-Xylene	106	9.557	9.557	(1.024)	1309230	507.896	101.58
M 63	Xylenes (total)	106				1954923	773.740	154.75
64	Xylene-o	106	9.889	9.889	(1.060)	645693	265.844	53.169
65	Styrene	104	9.901	9.900	(1.061)	1005301	260.387	52.077
66	Bromoform	173	10.054	10.054	(1.077)	183512	270.650	54.130
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1729693	265.353	53.070
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	321532	223.799	44.760
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	218142	489.380	97.876
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	103084	247.585	49.517
71	Bromobenzene	156	10.457	10.457	(0.925)	404346	234.479	46.896
72	n-Propylbenzene	120	10.551	10.551	(0.933)	486807	242.795	48.559
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	402822	246.951	49.390
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1405860	253.167	50.633
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	412207	239.331	47.866
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	1328150	258.297	51.659

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1462655	258.042	51.608
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1858277	251.295	50.259
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1561458	248.447	49.689
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	743446	227.070	45.414
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	739280	212.841	42.568
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1337463	245.256	49.051
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	704495	229.821	45.964
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	62926	253.791	50.758
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	454758	229.246	45.849
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	297406	233.880	46.776
87	Naphthalene	128	13.178	13.178	(1.165)	1125485	246.523	49.305
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	454713	232.701	46.540
146	2-Methylnaphthalene	142	14.042	14.054	(1.242)	1381	12.1413	2.428
89	Ethyl Ether	59	2.600	2.600	(0.394)	274079	229.140	45.828
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.741	(0.719)	326901	258.014	51.603
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.303	6.303	(0.955)	539744	12259.6	2451.9(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	125449	387.234	77.447(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.960	5.960	(0.903)	797720	238.147	47.629
143	Methyl Acetate	43	3.392	3.392	(0.514)	287870	207.599	41.520
144	Methylcyclohexane	83	7.143	7.143	(1.082)	720375	251.528	50.306
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1464811	264.487	52.897(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Lab Smp Id: CHECKDUP/ICV
Inj Date : 14-JAN-2010 18:00
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP/ICV
Misc Info : R00114A-IC,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:27 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 21 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147371.D
Lab Smp Id: CHECKDUP/ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,,2807,3

Calibration Date: 14-JAN-2010
Calibration Time: 11:29

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1426776	-11.90
2 Chlorobenzene-d5	1224767	612384	2449534	1018266	-16.86
3 1,4-Dichlorobenze	643485	321743	1286970	585686	-8.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

RECOVERY REPORT

Client Name:
Client SDG: SDGa00468
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: CHECKDUP/ICV
Level: LOW
Operator: 2807
Data Type: MS DATA
SampleType: METHSPIKE
SpikeList File: DODICV.spk
Quant Type: ISTD
Sublist File: 4-8260+IX.sub
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,,2807,3

SPIKE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
17	1,1-Dichloroethene	50.000	54.256	108.51	55-142
42	Trichloroethene	50.000	49.139	98.28	70-131
41	Benzene	50.000	48.972	97.94	75-129
50	Toluene	50.000	50.210	100.42	71-130
59	Chlorobenzene	50.000	46.749	93.50	75-127
60	1,1,1,2-Tetrachlor	50.000	53.129	106.26	75-125
37	1,1,1-Trichloroeth	50.000	51.510	103.02	75-125
68	1,1,2,2-Tetrachlor	50.000	44.760	89.52	75-125
53	1,1,2-Trichloroeth	50.000	48.108	96.22	75-125
28	1,1-Dichloroethane	50.000	51.352	102.70	75-125
38	1,1-Dichloropropen	50.000	52.298	104.60	75-125
88	1,2,3-Trichloroben	50.000	46.540	93.08	75-125
70	1,2,3-Trichloropro	50.000	49.517	99.03	75-125
85	1,2,4-Trichloroben	50.000	45.849	91.70	75-125
77	1,2,4-Trimethylben	50.000	51.608	103.22	75-125
84	1,2-Dibromo-3-chlo	50.000	50.758	101.52	75-125
58	1,2-Dibromoethane	50.000	49.411	98.82	75-125
83	1,2-Dichlorobenzen	50.000	45.964	91.93	75-125
40	1,2-Dichloroethane	50.000	50.040	100.08	75-125
43	1,2-Dichloropropan	50.000	50.601	101.20	75-125
74	1,3,5-Trimethylben	50.000	50.633	101.27	75-125
80	1,3-Dichlorobenzen	50.000	45.414	90.83	75-125
54	1,3-Dichloropropan	50.000	49.776	99.55	75-125
81	1,4-Dichlorobenzen	50.000	42.568	85.14	75-125
33	2,2-Dichloropropan	50.000	44.782	89.57	75-125
30	2-Butanone	50.000	44.152	88.30	75-125
73	2-Chlorotoluene	50.000	49.390	98.78	75-125
56	2-Hexanone	50.000	47.242	94.48	75-125
75	4-Chlorotoluene	50.000	47.866	95.73	75-125
49	4-Methyl-2-pentano	50.000	50.718	101.44	75-125
16	Acetone	50.000	48.841	97.68	75-125
71	Bromobenzene	50.000	46.896	93.79	75-125
34	Bromochloromethane	50.000	48.798	97.60	75-125
46	Bromodichlorometha	50.000	52.319	104.64	75-125
66	Bromoform	50.000	54.130	108.26	75-125
11	Bromomethane	50.000	41.834	83.67	75-125
20	Carbon Disulfide	50.000	52.573	105.15	75-125
39	Carbon Tetrachlori	50.000	58.112	116.22	75-125
57	Dibromochlorometha	50.000	52.577	105.15	75-125
12	Chloroethane	50.000	43.091	86.18	75-125

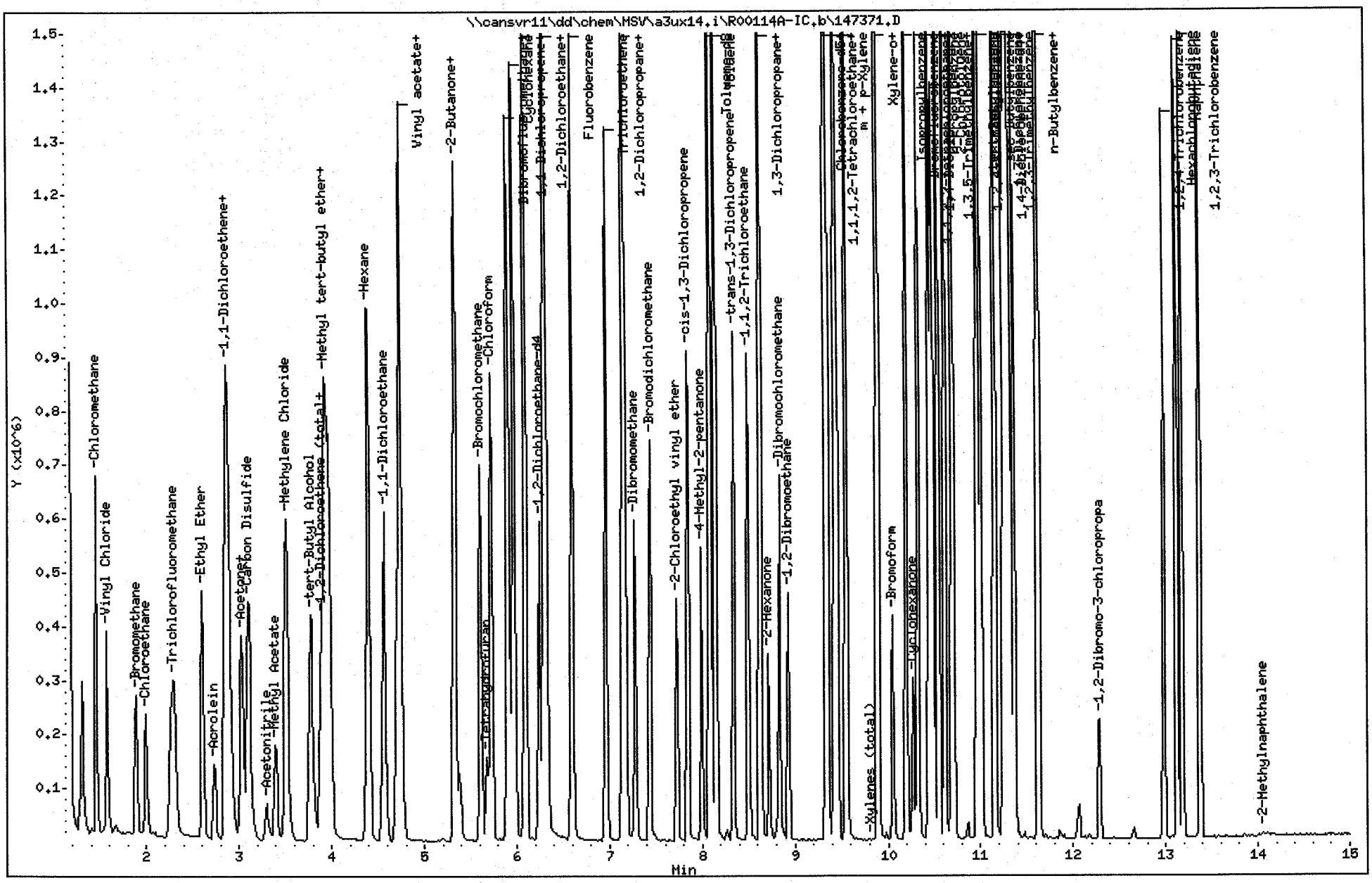
Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

	SPIKE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	35	Chloroform	50.000	49.827	99.65	75-125
	9	Chloromethane	50.000	45.044	90.09	75-125
	32	cis-1,2-dichloroet	50.000	49.842	99.68	75-125
	48	cis-1,3-Dichloropr	50.000	47.444	94.89	75-125
	45	Dibromomethane	50.000	50.129	100.26	75-125
	8	Dichlorodifluorome	50.000	42.126	84.25	75-125
	61	Ethylbenzene	50.000	51.169	102.34	75-125
	86	Hexachlorobutadien	50.000	46.776	93.55	75-125
	67	Isopropylbenzene	50.000	53.070	106.14	75-125
	62	m + p-Xylene	100.00	101.58	101.58	75-125
	21	Methylene Chloride	50.000	49.611	99.22	75-125
	87	Naphthalene	50.000	49.305	98.61	75-125
	82	n-Butylbenzene	50.000	49.051	98.10	75-125
	72	n-Propylbenzene	50.000	48.559	97.12	75-125
	64	Xylene-o	50.000	53.169	106.34	75-125
	79	4-Isopropyltoluene	50.000	49.689	99.38	75-125
	78	sec-Butylbenzene	50.000	50.259	100.52	75-125
	65	Styrene	50.000	52.077	104.15	75-125
	76	tert-Butylbenzene	50.000	51.659	103.32	75-125
	55	Tetrachloroethene	50.000	48.468	96.94	75-125
	25	trans-1,2-Dichloro	50.000	50.741	101.48	75-125
	51	trans-1,3-Dichloro	50.000	48.741	97.48	75-125
	13	Trichlorofluoromet	50.000	55.608	111.22	75-125
	10	Vinyl Chloride	50.000	44.276	88.55	75-125
	27	Vinyl acetate	50.000	69.396	138.79*	75-125
	154	Vinyl Acetate**2nd	50.000	62.133	124.27	75-125
	19	Iodomethane	50.000	51.818	103.64	75-125
	92	Isopropyl Ether	50.000	51.603	103.21	75-125
	24	Methyl tert-butyl	50.000	51.955	103.91	75-125
M	63	Xylenes (total)	150.00	154.75	103.17	75-125
	22	Acetonitrile	150.00	132.48	88.32	75-125
	15	Acrolein	150.00	162.31	108.21	75-125
	23	Acrylonitrile	150.00	144.44	96.29	75-125
	47	2-Chloroethyl viny	50.000	43.598	87.20	75-125
	98	Cyclohexane	50.000	47.629	95.26	75-125
M	31	1,2-Dichloroethene	100.00	100.58	100.58	75-125
	26	Hexane	50.000	53.370	106.74	75-125
	143	Methyl Acetate	50.000	41.520	83.04	75-125
	144	Methylcyclohexane	50.000	50.306	100.61	75-125
	18	Freon-113	50.000	58.482	116.96	75-125
	25	Cyclohexanone	500.00	77.447	15.49*	75-125

	SURROGATE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$	4	Dibromofluorometha	50.000	47.360	94.72	59-138
$	5	1,2-Dichloroethane	50.000	46.383	92.77	61-130
$	6	Toluene-d8	50.000	50.313	100.63	60-143
$	7	Bromofluorobenzene	50.000	48.440	96.88	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Date : 14-JAN-2010 18:00
Client ID:
Sample Info: CHECKDUP/ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



North Canton

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Lab Smp Id: 1000NG-BMIC
Inj Date : 14-JAN-2010 14:30
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 1000NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,8
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 17:14 Cal File: 147369.D
Als bottle: 12 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1469255	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1064692	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	598810	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	668309	1000.00	844.69

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147362.D
Lab Smp Id: 1000NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,8

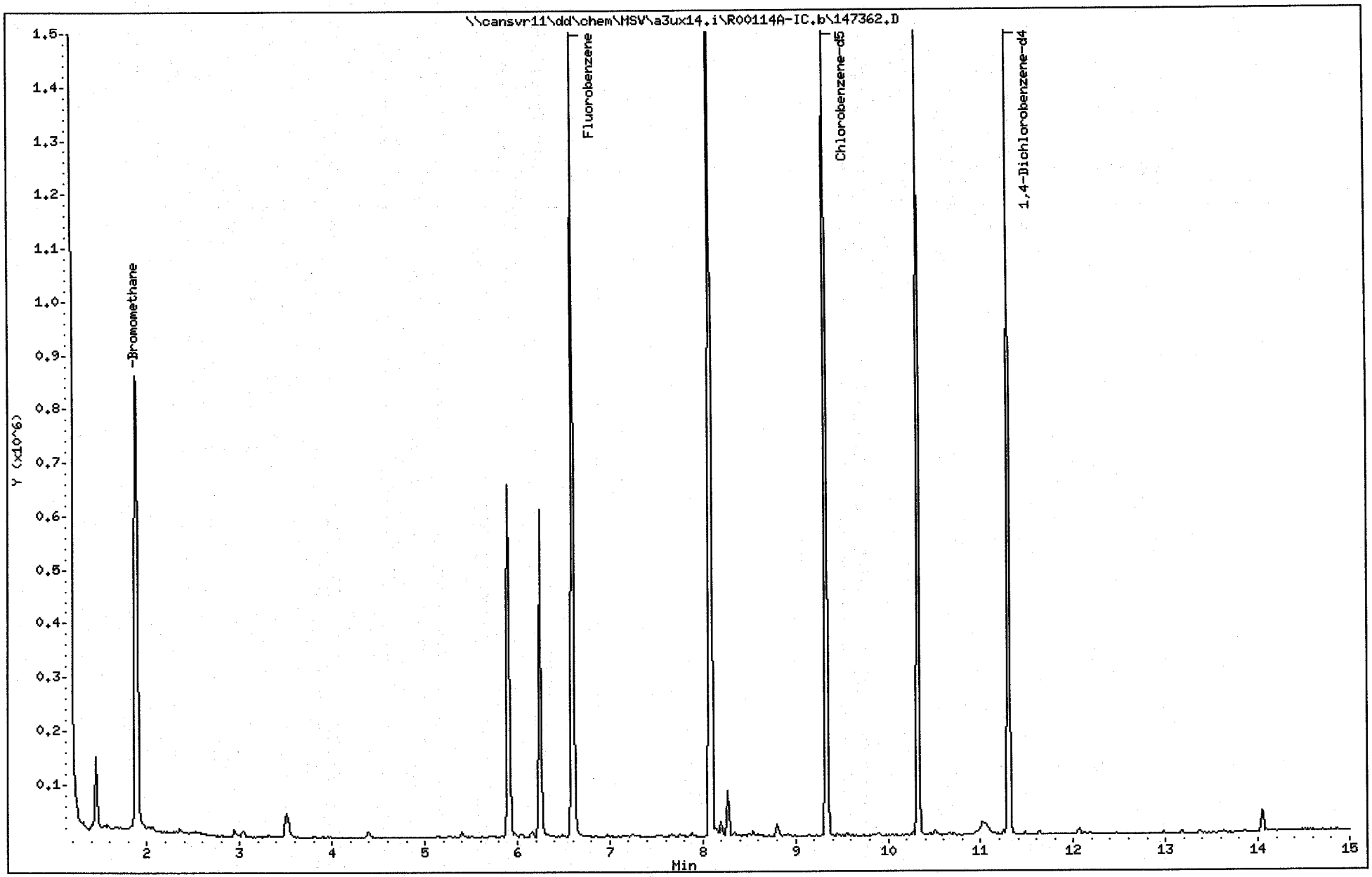
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1469255	-9.27
2 Chlorobenzene-d5	1224767	612384	2449534	1064692	-13.07
3 1,4-Dichlorobenze	643485	321743	1286970	598810	-6.94

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Date : 14-JAN-2010 14:30
Client ID:
Sample Info: 1000NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Lab Smp Id: 500NG-BMIC
Inj Date : 14-JAN-2010 14:53
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 500NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,7
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:30 Cal File: 147362.D
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1506064	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1130843	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	577018	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	363830	500.000	448.62

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147363.D
Lab Smp Id: 500NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,7

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1506064	-7.00
2 Chlorobenzene-d5	1224767	612384	2449534	1130843	-7.67
3 1,4-Dichlorobenze	643485	321743	1286970	577018	-10.33

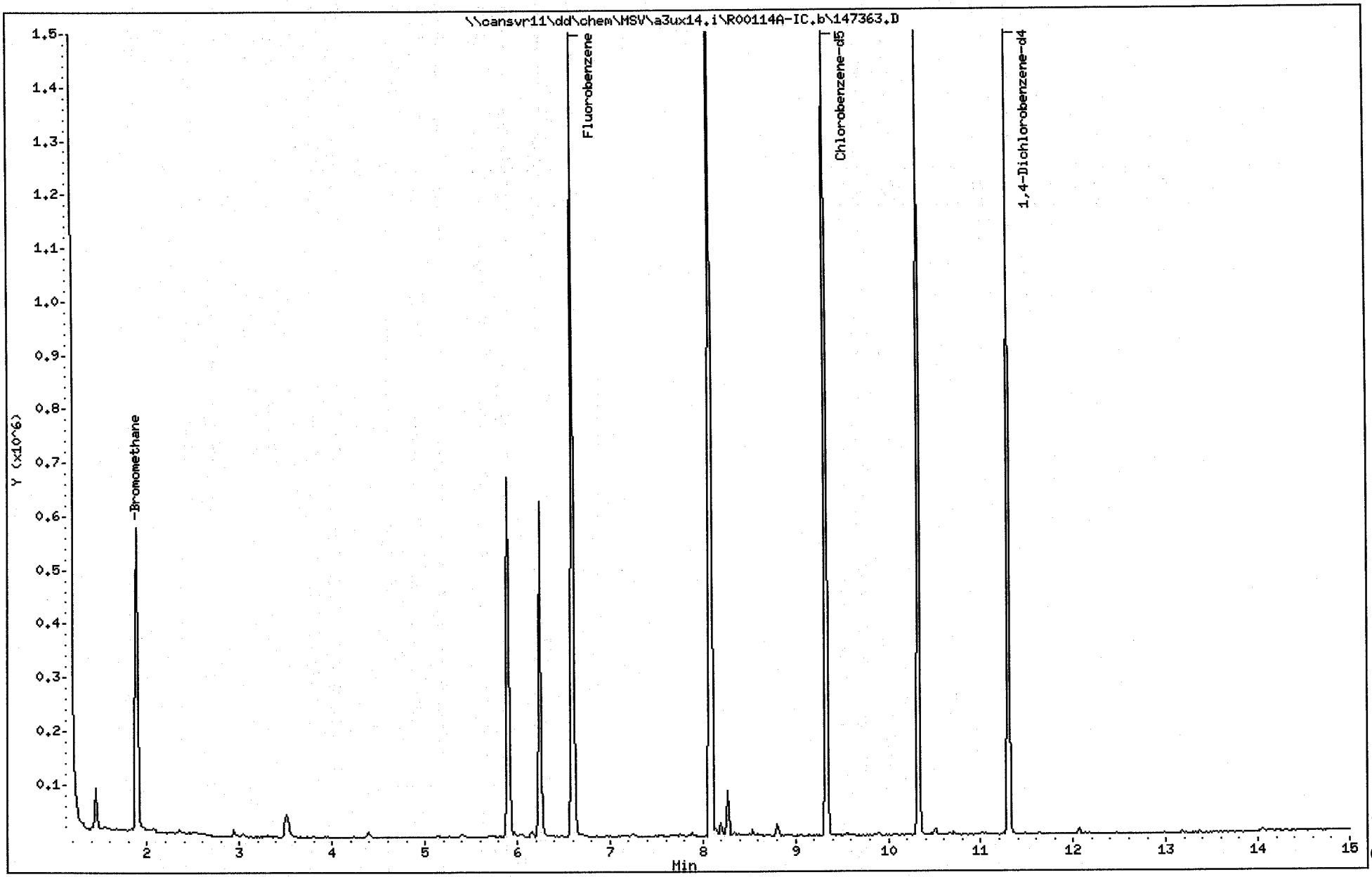
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\oansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Date : 14-JAN-2010 14:53
Client ID:
Sample Info: 500NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Lab Smp Id: 250NG-BMIC
Inj Date : 14-JAN-2010 15:16
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:53 Cal File: 147363.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1426757	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1019841	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	550598	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	178530	250.000	232.37

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147364.D
Lab Smp Id: 250NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1426757	0.00
2 Chlorobenzene-d5	1019841	509921	2039682	1019841	0.00
3 1,4-Dichlorobenze	550598	275299	1101196	550598	0.00

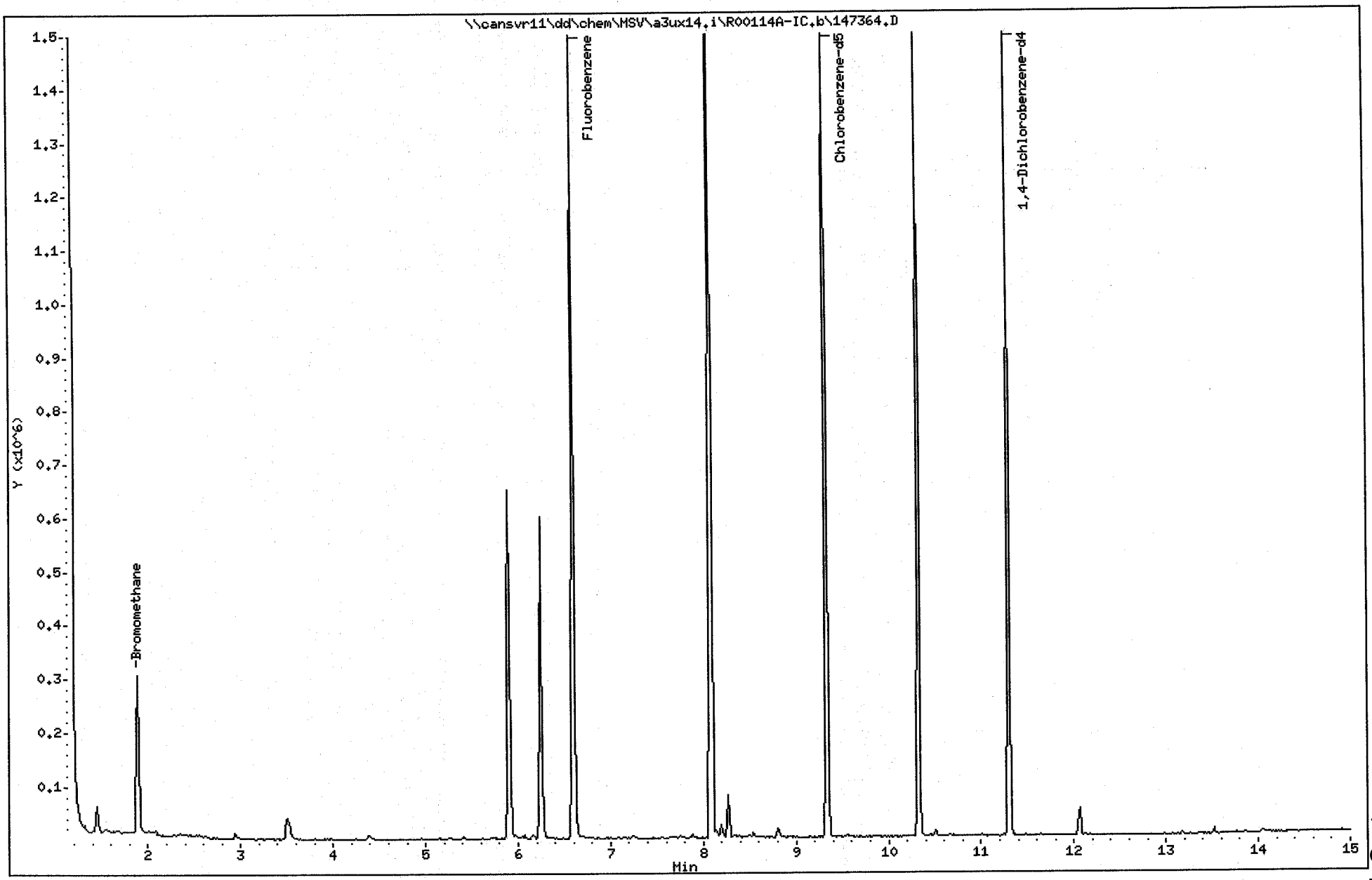
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Date : 14-JAN-2010 15:16
Client ID:
Sample Info: 250NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Lab Smp Id: 100NG-BMIC
Inj Date : 14-JAN-2010 15:39
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 100NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1384300	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1014571	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	545907	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	76468	100.000	102.58

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147365.D
Lab Smp Id: 100NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,5

Calibration Date: 14-JAN-2010
Calibration Time: 15:16

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1384300	-2.98
2 Chlorobenzene-d5	1019841	509921	2039682	1014571	-0.52
3 1,4-Dichlorobenze	550598	275299	1101196	545907	-0.85

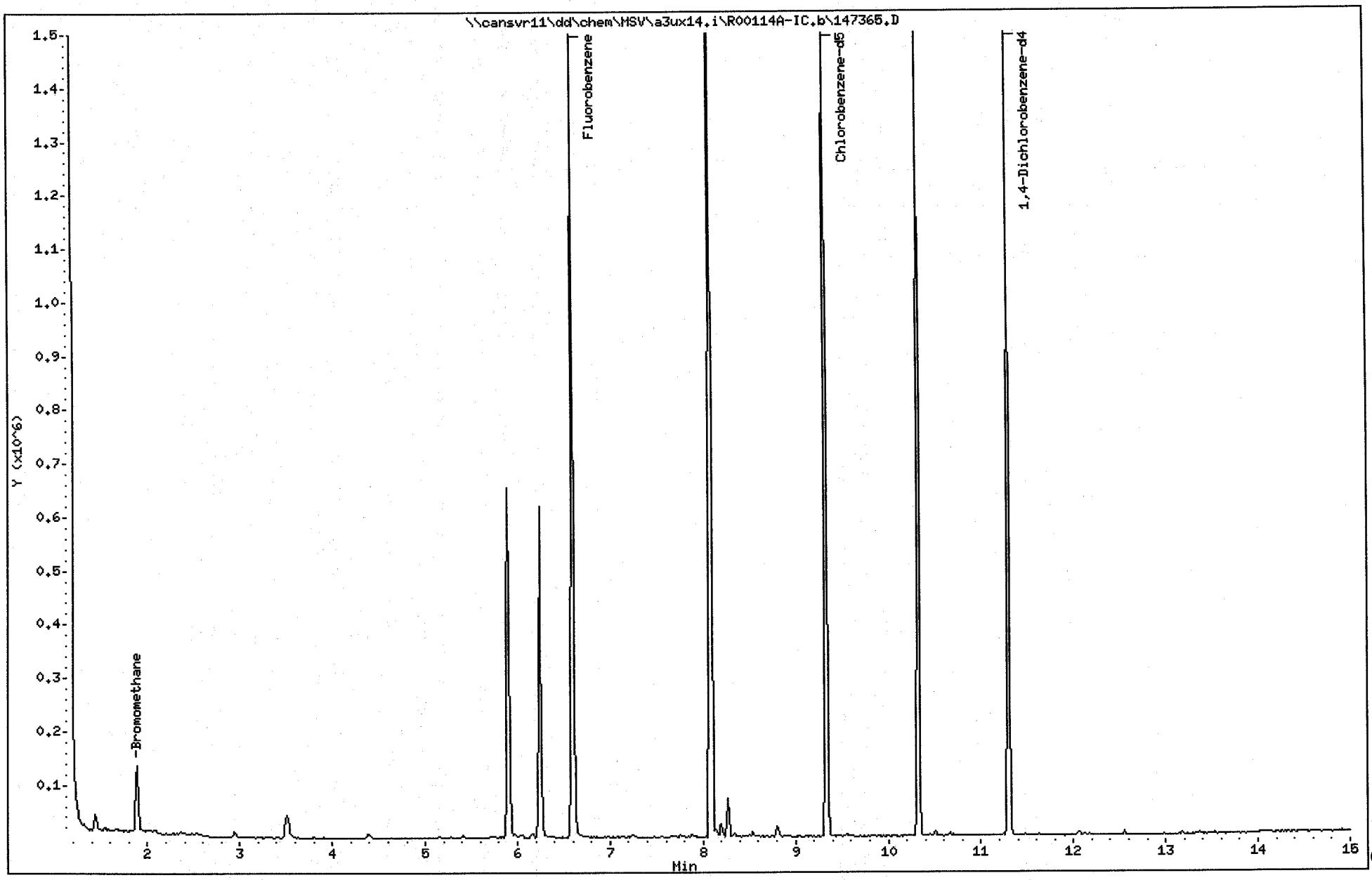
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Date : 14-JAN-2010 15:39
Client ID:
Sample Info: 100NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Lab Smp Id: 50NG-BMIC
Inj Date : 14-JAN-2010 16:03
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:39 Cal File: 147365.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1425981	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1040279	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	547806	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	33596	50.0000	43.751

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147366.D
Lab Smp Id: 50NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1425981	-0.05
2 Chlorobenzene-d5	1019841	509921	2039682	1040279	2.00
3 1,4-Dichlorobenze	550598	275299	1101196	547806	-0.51

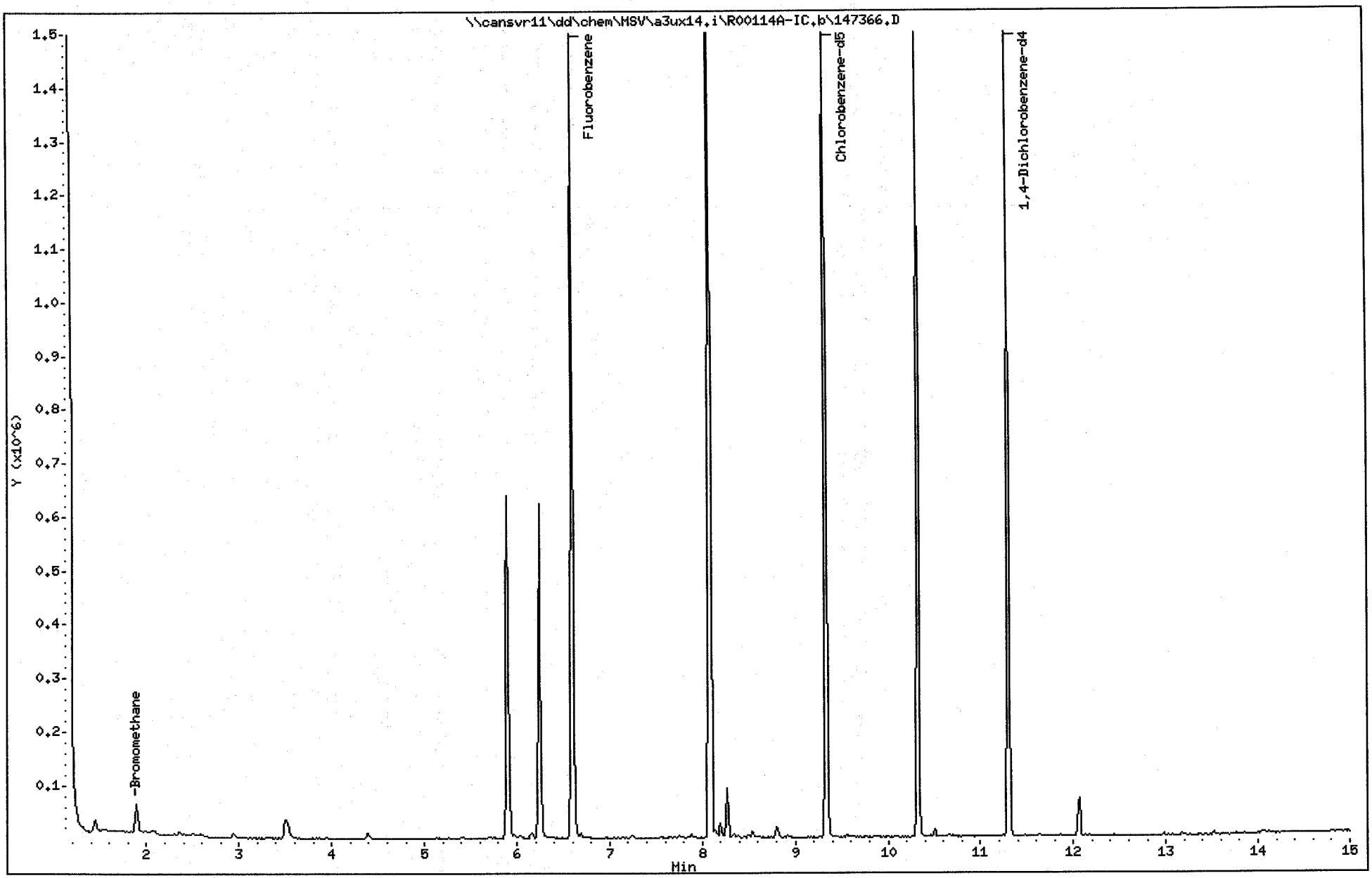
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Date : 14-JAN-2010 16:03
Client ID:
Sample Info: 50NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Lab Smp Id: 25NG-BMIC
Inj Date : 14-JAN-2010 16:27
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 25NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:03 Cal File: 147366.D
Als bottle: 17 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1354292	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	975180	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	522521	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	19955	25.0000	27.363

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147367.D
Lab Smp Id: 25NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1354292	-5.08
2 Chlorobenzene-d5	1019841	509921	2039682	975180	-4.38
3 1,4-Dichlorobenze	550598	275299	1101196	522521	-5.10

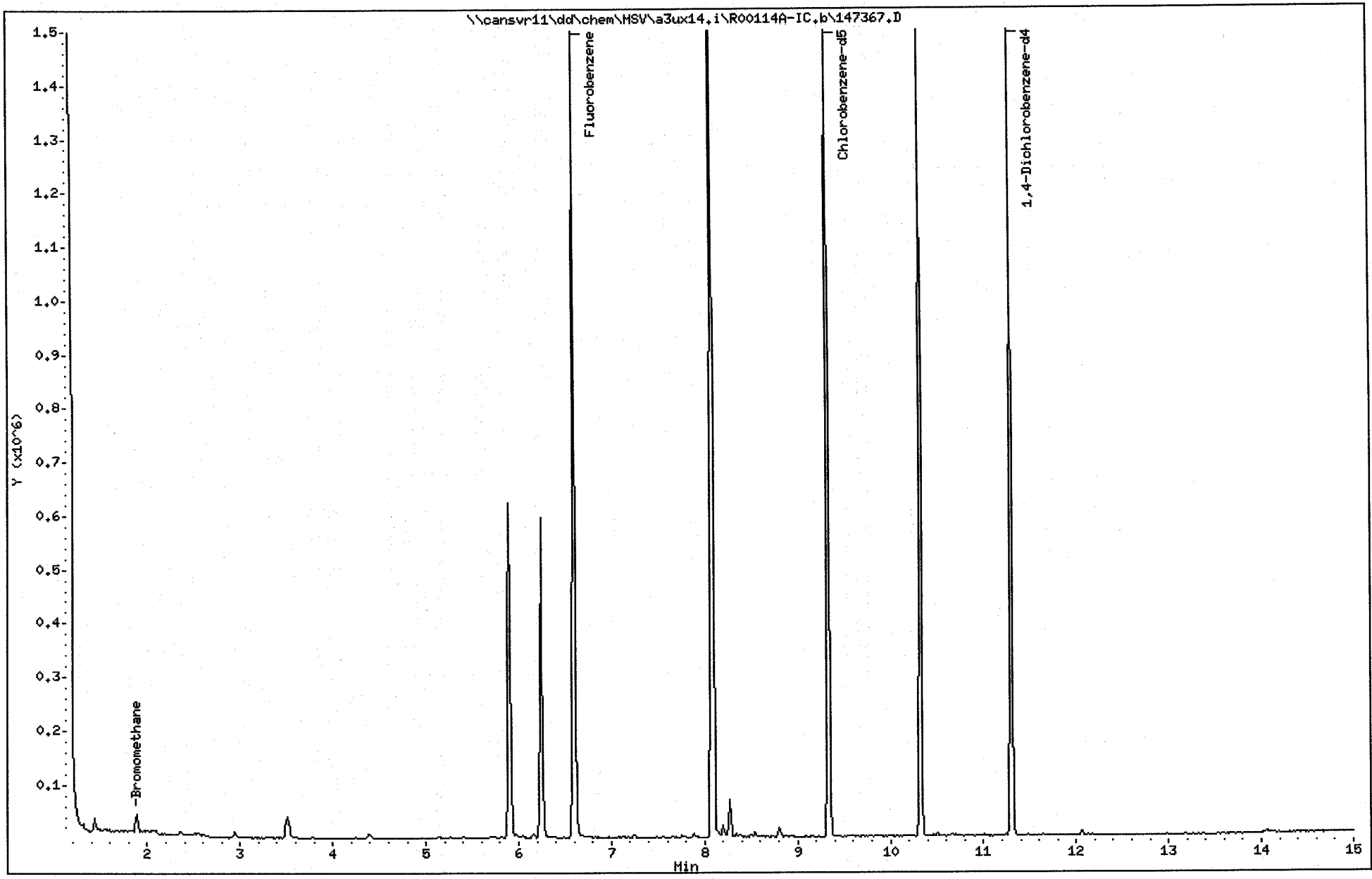
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Date : 14-JAN-2010 16:27
Client ID:
Sample Info: 25NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Lab Smp Id: 10NG-BMIC
Inj Date : 14-JAN-2010 16:50
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 10NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:27 Cal File: 147367.D
Als bottle: 18 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1422782	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1058622	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	544484	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	8389	10.0000	10.949

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147368.D
Lab Smp Id: 10NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1422782	-0.28
2 Chlorobenzene-d5	1019841	509921	2039682	1058622	3.80
3 1,4-Dichlorobenze	550598	275299	1101196	544484	-1.11

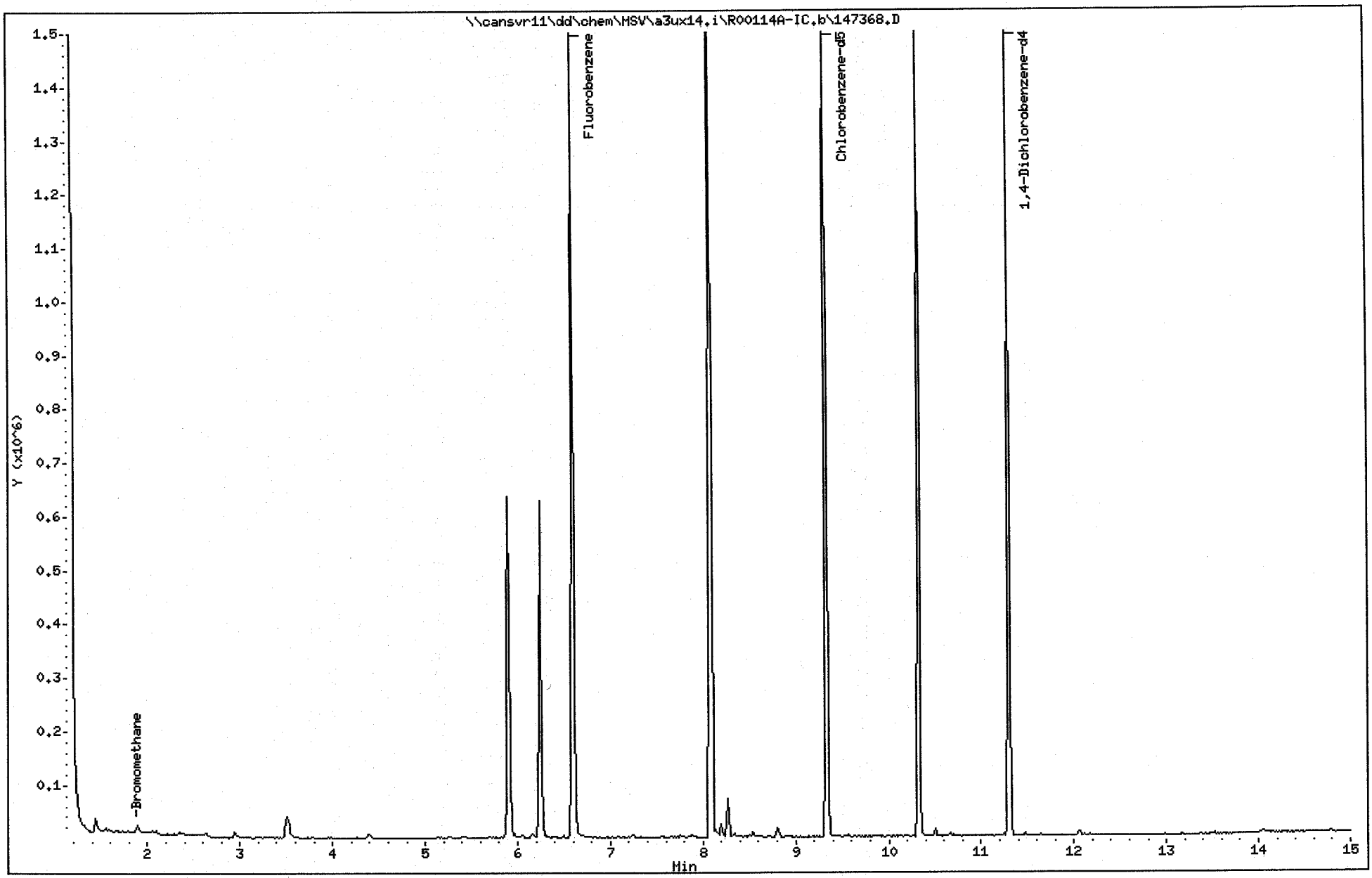
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Date : 14-JAN-2010 16:50
Client ID:
Sample Info: 10NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Lab Smp Id: 5NG-BMIC
Inj Date : 14-JAN-2010 17:14
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 5NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:50 Cal File: 147368.D
Als bottle: 19 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1331092	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	972754	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	525346	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	4438	5.00000	6.192

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147369.D
Lab Smp Id: 5NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,1

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1331092	-6.71
2 Chlorobenzene-d5	1019841	509921	2039682	972754	-4.62
3 1,4-Dichlorobenze	550598	275299	1101196	525346	-4.59

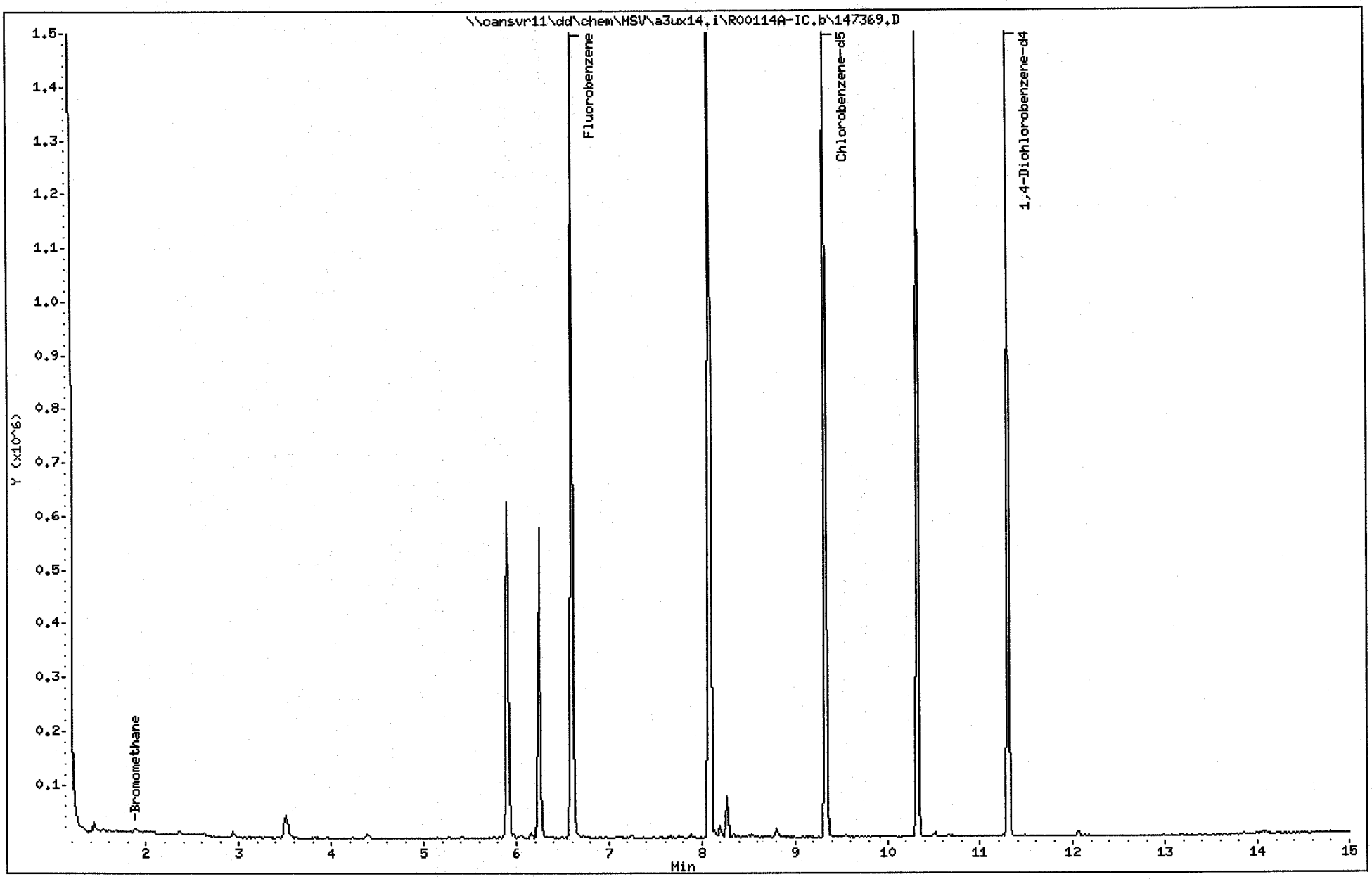
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Date : 14-JAN-2010 17:14
Client ID:
Sample Info: 5NC-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Report Date: 26-Feb-2010 12:32

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Start Cal Date: 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
14-JAN-2010 17:14	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
08-JAN-2010 18:18	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147289.D
14-JAN-2010 13:21	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Cal Level: 2 , Cal Amount: 10.00000		
14-JAN-2010 16:50	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
08-JAN-2010 17:55	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147288.D
14-JAN-2010 12:59	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Cal Level: 3 , Cal Amount: 25.00000		
14-JAN-2010 16:27	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
08-JAN-2010 17:33	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147287.D
14-JAN-2010 12:36	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Cal Level: 4 , Cal Amount: 50.00000		
14-JAN-2010 16:03	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
08-JAN-2010 17:11	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147286.D
14-JAN-2010 12:14	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Cal Level: 5 , Cal Amount: 100.00000		
14-JAN-2010 15:39	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
08-JAN-2010 16:49	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147285.D

14-JAN-2010 11:51	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D		

Cal Level: 6 , Cal Amount: 250.00000		
14-JAN-2010 15:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D		
08-JAN-2010 16:27	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147284.D		
14-JAN-2010 11:29	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D		

Cal Level: 7 , Cal Amount: 500.00000		
14-JAN-2010 14:53	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D		
08-JAN-2010 16:06	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147283.D		
14-JAN-2010 11:07	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D		

Cal Level: 8 , Cal Amount: 1000.00000		
14-JAN-2010 14:30	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D		
08-JAN-2010 15:44	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147282.D		
14-JAN-2010 10:45	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

26-FEB-2010 11:30	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D		
26-FEB-2010 11:52	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148214.D		

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 26-FEB-2010 11:30
Lab File ID: 148213.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.27543	0.27069	0.27069	0.010	1.72113	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.28239	0.26661	0.26661	0.010	5.58832	50.00000	Averaged	
$ 6 Toluene-d8	1.35529	1.37865	1.37865	0.010	-1.72343	50.00000	Averaged	
$ 7 Bromofluorobenzene	0.92698	0.92869	0.92869	0.010	-0.18435	50.00000	Averaged	
8 Dichlorodifluoromethane	0.25286	0.27186	0.27186	0.010	-7.51616	50.00000	Averaged	
9 Chloromethane	0.36556	0.35398	0.35398	0.100	3.16541	50.00000	Averaged	
10 Vinyl Chloride	0.27573	0.29719	0.29719	0.010	-7.78235	20.00000	Averaged	
11 Bromomethane	0.13462	0.14287	0.14287	0.010	-6.12836	50.00000	Averaged	
12 Chloroethane	0.16260	0.16650	0.16650	0.010	-2.39911	50.00000	Averaged	
13 Trichlorofluoromethane	0.26554	0.31673	0.31673	0.010	-19.27769	50.00000	Averaged	
15 Acrolein	0.03142	0.02392	0.02392	0.010	23.87271	50.00000	Averaged	
16 Acetone	500	518	0.08611	0.010	-3.59656	0.000e+000	Wt Linear	
17 1,1-Dichloroethene	0.23886	0.24094	0.24094	0.010	-0.87369	20.00000	Averaged	
18 Freon-113	0.19183	0.21363	0.21363	0.010	-11.36529	50.00000	Averaged	
19 Iodomethane	0.40711	0.42654	0.42654	0.010	-4.77454	50.00000	Averaged	
20 Carbon Disulfide	0.68415	0.67971	0.67971	0.010	0.64890	50.00000	Averaged	
21 Methylene Chloride	250	253	0.27269	0.010	-1.06500	0.000e+000	Wt Linear	
22 Acetonitrile	0.03316	0.03158	0.03158	0.010	4.78171	50.00000	Averaged	
23 Acrylonitrile	0.09839	0.09280	0.09280	0.010	5.68898	50.00000	Averaged	
24 Methyl tert-butyl ether	0.62058	0.66574	0.66574	0.010	-7.27752	50.00000	Averaged	
25 trans-1,2-Dichloroethene	0.27738	0.28568	0.28568	0.010	-2.99432	50.00000	Averaged	
26 Hexane	0.06401	0.06467	0.06467	0.010	-1.03770	20.00000	Averaged	
27 Vinyl acetate	0.32001	0.20636	0.20636	0.010	35.51575	50.00000	Averaged	
154 Vinyl Acetate**2nd**	0.02851	0.01792	0.01792	0.010	37.14999	50.00000	Averaged	
28 1,1-Dichloroethane	0.49634	0.51150	0.51150	0.100	-3.05461	50.00000	Averaged	
29 tert-Butyl Alcohol	0.02261	0.02179	0.02179	0.010	3.66053	50.00000	Averaged	
30 2-Butanone	0.12811	0.10533	0.10533	0.010	17.78452	50.00000	Averaged	
M 31 1,2-Dichloroethene (total)	0.28079	0.28947	0.28947	0.010	-3.08950	50.00000	Averaged	
32 cis-1,2-dichloroethene	0.28421	0.29325	0.29325	0.010	-3.18239	50.00000	Averaged	
33 2,2-Dichloropropane	0.19420	0.20413	0.20413	0.010	-5.11261	50.00000	Averaged	
34 Bromochloromethane	0.13814	0.14146	0.14146	0.010	-2.40276	50.00000	Averaged	
35 Chloroform	0.45496	0.46400	0.46400	0.010	-1.98583	20.00000	Averaged	
36 Tetrahydrofuran	0.08298	0.07041	0.07041	0.010	15.15232	50.00000	Averaged	
37 1,1,1-Trichloroethane	0.32897	0.36489	0.36489	0.010	-10.91992	50.00000	Averaged	
38 1,1-Dichloropropene	0.34497	0.36887	0.36887	0.010	-6.92564	50.00000	Averaged	
39 Carbon Tetrachloride	0.28593	0.37016	0.37016	0.010	-29.45949	50.00000	Averaged	
40 1,2-Dichloroethane	0.33673	0.33339	0.33339	0.010	0.99184	50.00000	Averaged	
41 Benzene	1.08058	1.06668	1.06668	0.010	1.28667	50.00000	Averaged	
42 Trichloroethene	0.29782	0.30175	0.30175	0.010	-1.32024	50.00000	Averaged	
43 1,2-Dichloropropane	0.27071	0.27117	0.27117	0.010	-0.16799	20.00000	Averaged	
44 1,4-Dioxane	0.00223	0.00206	0.00206	0.010	7.67268	50.00000	Averaged	<-
45 Dibromomethane	0.13786	0.13496	0.13496	0.010	2.10290	50.00000	Averaged	
46 Bromodichloromethane	0.27945	0.29317	0.29317	0.010	-4.90828	50.00000	Averaged	

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 26-FEB-2010 11:30
Lab File ID: 148213.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
47 2-Chloroethyl vinyl ether	500	423	0.10790	0.010	15.47530	0.000e+000	Wt Linear
48 cis-1,3-Dichloropropene	0.34370	0.34187	0.34187	0.010	0.53278	50.00000	Averaged
49 4-Methyl-2-pentanone	0.30190	0.28703	0.28703	0.010	4.92758	50.00000	Averaged
50 Toluene	1.47660	1.56770	1.56770	0.010	-6.16967	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.38806	0.38169	0.38169	0.010	1.64287	50.00000	Averaged
52 Ethyl Methacrylate	250	213	0.32267	0.010	14.85109	0.000e+000	Wt Linear
53 1,1,2-Trichloroethane	0.26341	0.26203	0.26203	0.010	0.52544	50.00000	Averaged
54 1,3-Dichloropropane	0.44131	0.43925	0.43925	0.010	0.46801	50.00000	Averaged
55 Tetrachloroethene	0.31174	0.32727	0.32727	0.010	-4.98302	50.00000	Averaged
56 2-Hexanone	0.20799	0.19610	0.19610	0.010	5.71807	50.00000	Averaged
57 Dibromochloromethane	0.27496	0.29069	0.29069	0.010	-5.72278	50.00000	Averaged
58 1,2-Dibromoethane	0.25432	0.25023	0.25023	0.010	1.60811	50.00000	Averaged
59 Chlorobenzene	1.01494	1.03200	1.03200	0.300	-1.68031	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.32190	0.35109	0.35109	0.010	-9.06826	50.00000	Averaged
61 Ethylbenzene	0.52312	0.56562	0.56562	0.010	-8.12287	20.00000	Averaged
62 m + p-Xylene	0.63288	0.70550	0.70550	0.010	-11.47412	50.00000	Averaged
M 63 Xylenes (total)	0.62069	0.69387	0.69387	0.010	-11.79024	50.00000	Averaged
64 Xylene-o	0.59632	0.67063	0.67063	0.010	-12.46122	50.00000	Averaged
65 Styrene	0.94789	1.07078	1.07078	0.010	-12.96518	50.00000	Averaged
66 Bromoform	0.16647	0.17537	0.17537	0.100	-5.34426	50.00000	Averaged
67 Isopropylbenzene	1.60039	1.81102	1.81102	0.010	-13.16125	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	0.61326	0.61718	0.61718	0.300	-0.63991	50.00000	Averaged
69 1,4-Dichloro-2-butene	0.19027	0.18270	0.18270	0.010	3.98058	50.00000	Averaged
70 1,2,3-Trichloropropane	0.17772	0.17656	0.17656	0.010	0.65581	50.00000	Averaged
71 Bromobenzene	0.73608	0.76225	0.76225	0.010	-3.55497	50.00000	Averaged
72 n-Propylbenzene	0.85584	0.93233	0.93233	0.010	-8.93701	50.00000	Averaged
73 2-Chlorotoluene	0.69627	0.79087	0.79087	0.010	-13.58725	50.00000	Averaged
74 1,3,5-Trimethylbenzene	2.37034	2.66892	2.66892	0.010	-12.59644	50.00000	Averaged
75 4-Chlorotoluene	0.73518	0.82117	0.82117	0.010	-11.69677	50.00000	Averaged
76 tert-Butylbenzene	2.19484	2.46401	2.46401	0.010	-12.26355	50.00000	Averaged
77 1,2,4-Trimethylbenzene	2.41951	2.70204	2.70204	0.010	-11.67744	50.00000	Averaged
78 sec-Butylbenzene	3.15647	3.46751	3.46751	0.010	-9.85388	50.00000	Averaged
79 4-Isopropyltoluene	2.68270	2.87650	2.87650	0.010	-7.22401	50.00000	Averaged
80 1,3-Dichlorobenzene	1.39754	1.45352	1.45352	0.010	-4.00507	50.00000	Averaged
81 1,4-Dichlorobenzene	1.48261	1.45140	1.45140	0.010	2.10505	50.00000	Averaged
82 n-Butylbenzene	2.32775	2.48752	2.48752	0.010	-6.86377	50.00000	Averaged
83 1,2-Dichlorobenzene	1.30847	1.33318	1.33318	0.010	-1.88817	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	0.10583	0.10110	0.10110	0.010	4.47757	50.00000	Averaged
85 1,2,4-Trichlorobenzene	0.84675	0.82413	0.82413	0.010	2.67049	50.00000	Averaged
87 Naphthalene	1.94875	1.77460	1.77460	0.010	8.93656	50.00000	Averaged
86 Hexachlorobutadiene	0.54279	0.51170	0.51170	0.010	5.72801	50.00000	Averaged
88 1,2,3-Trichlorobenzene	0.83409	0.76867	0.76867	0.010	7.84395	50.00000	Averaged
98 Cyclohexane	0.58694	0.63397	0.63397	0.010	-8.01428	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 26-FEB-2010 11:30
Lab File ID: 148213.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
143 Methyl Acetate	0.24297	0.23434	0.23434	0.010	3.55354	50.00000	Averaged
144 Methylcyclohexane	0.50183	0.57209	0.57209	0.010	-14.00034	50.00000	Averaged
141 1,3,5-Trichlorobenzene	0.99845	1.00224	1.00224	0.010	-0.37998	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Lab Smp Id: 250NG-CC
Inj Date : 26-FEB-2010 11:30
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-CC
Misc Info : R00226A,8260SUX14,1-8260.SUB,2807,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1312011	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	965181	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	531218	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	355144	250.000	245.70
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	349789	250.000	236.03
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1330643	250.000	254.31
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	493336	250.000	250.46
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	356685	250.000	268.79
9 Chloromethane	50	1.452	1.452	(0.220)	464431	250.000	242.09
10 Vinyl Chloride	62	1.570	1.570	(0.238)	389911	250.000	269.46
11 Bromomethane	94	1.878	1.878	(0.285)	187452	250.000	265.32
12 Chloroethane	64	1.996	1.996	(0.303)	218456	250.000	256.00
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	415552	250.000	298.19
15 Acrolein	56	2.730	2.730	(0.414)	313832	2500.00	1903.2
16 Acetone	43	2.931	2.931	(0.444)	225960	500.000	517.98
17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	316120	250.000	252.18
18 Freon-113	151	2.896	2.896	(0.439)	280285	250.000	278.41
19 Iodomethane	142	3.026	3.026	(0.459)	559629	250.000	261.94
20 Carbon Disulfide	76	3.097	3.097	(0.469)	891782	250.000	248.38

21	Methylene Chloride	84	3.499	3.499 (0.530)	357776	250.000	252.66
22	Acetonitrile	41	3.286	3.286 (0.498)	414302	2500.00	2380.4
23	Acrylonitrile	53	3.890	3.890 (0.589)	243500	500.000	471.56

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	==========	====	====	========	========	========	=======	=======
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	873455	250.000	268.19
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	374818	250.000	257.48
26	Hexane	86	4.387	4.387	(0.665)	84854	250.000	252.59
27	Vinyl acetate	43	4.694	4.694	(0.711)	270744	250.000	161.21
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	23512	250.000	157.12(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	671089	250.000	257.64
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	571672	5000.00	4817.0
30	2-Butanone	43	5.380	5.380	(0.815)	276376	500.000	411.08
M 31	1,2-Dichloroethene (total)	96				759569	500.000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	384751	250.000	257.96
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	267817	250.000	262.78
34	Bromochloromethane	128	5.605	5.605	(0.849)	185593	250.000	256.01
35	Chloroform	83	5.724	5.724	(0.867)	608768	250.000	254.96
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	92374	250.000	212.12
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	478745	250.000	277.30
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	483955	250.000	267.31
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	485656	250.000	323.65
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	437410	250.000	247.52
41	Benzene	78	6.303	6.303	(0.955)	1399497	250.000	246.78
42	Trichloroethene	130	6.966	6.966	(1.056)	395898	250.000	253.30
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	355773	250.000	250.42
44	1,4-Dioxane	88	7.309	7.309	(1.108)	135286	12500.0	11541
45	Dibromomethane	93	7.274	7.274	(1.102)	177071	250.000	244.74
46	Bromodichloromethane	83	7.439	7.439	(1.127)	384642	250.000	262.27
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	283139	500.000	422.62
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	448538	250.000	248.67
49	4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	554066	500.000	475.36
50	Toluene	91	8.138	8.138	(0.872)	1513117	250.000	265.42
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	368399	250.000	245.89
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	311437	250.000	212.87
53	1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	252902	250.000	248.69
54	1,3-Dichloropropane	76	8.635	8.635	(0.925)	423952	250.000	248.83
55	Tetrachloroethene	164	8.623	8.623	(0.924)	315878	250.000	262.46
56	2-Hexanone	43	8.717	8.717	(0.934)	378544	500.000	471.41
57	Dibromochloromethane	129	8.836	8.836	(0.947)	280569	250.000	264.31
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	241522	250.000	245.98
59	Chlorobenzene	112	9.356	9.356	(1.003)	996062	250.000	254.20
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	338862	250.000	272.67
61	Ethylbenzene	106	9.451	9.451	(1.013)	545921	250.000	270.31
62	m + p-Xylene	106	9.557	9.557	(1.024)	1361862	500.000	557.37
64	Xylene-o	106	9.889	9.889	(1.060)	647276	250.000	281.15
65	Styrene	104	9.901	9.901	(1.061)	1033498	250.000	282.41
66	Bromoform	173	10.054	10.054	(1.077)	169260	250.000	263.36
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1747958	250.000	282.90
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	327857	250.000	251.60
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	97051	250.000	240.05
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	93790	250.000	248.36
71	Bromobenzene	156	10.457	10.457	(0.925)	404919	250.000	258.89
72	n-Propylbenzene	120	10.551	10.551	(0.933)	495269	250.000	272.34
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	420126	250.000	283.97
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1417776	250.000	281.49
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	436219	250.000	279.24

76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1308926	250.000	280.66
77	1,2,4-Trimethylbenzene	105	11.013	11.013 (0.974)	1435374	250.000	279.19

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
78 sec-Butylbenzene	105	11.155	11.155	(0.986)	1842003	250.000	274.63
79 4-Isopropyltoluene	119	11.273	11.273	(0.997)	1528047	250.000	268.06
80 1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	772134	250.000	260.01
81 1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	771012	250.000	244.74
82 n-Butylbenzene	91	11.616	11.616	(1.027)	1321417	250.000	267.16
83 1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	708208	250.000	254.72
84 1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	53704	250.000	238.81
85 1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	437795	250.000	243.32
87 Naphthalene	128	13.178	13.178	(1.165)	942700	250.000	227.66
86 Hexachlorobutadiene	225	13.131	13.131	(1.161)	271824	250.000	235.68
88 1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	408330	250.000	230.39
98 Cyclohexane	56	5.960	5.960	(0.903)	831781	250.000	270.04
143 Methyl Acetate	43	3.393	3.393	(0.514)	614907	500.000	482.23
144 Methylcyclohexane	83	7.144	7.144	(1.082)	750584	250.000	285.00
141 1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	532408	250.000	250.95

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

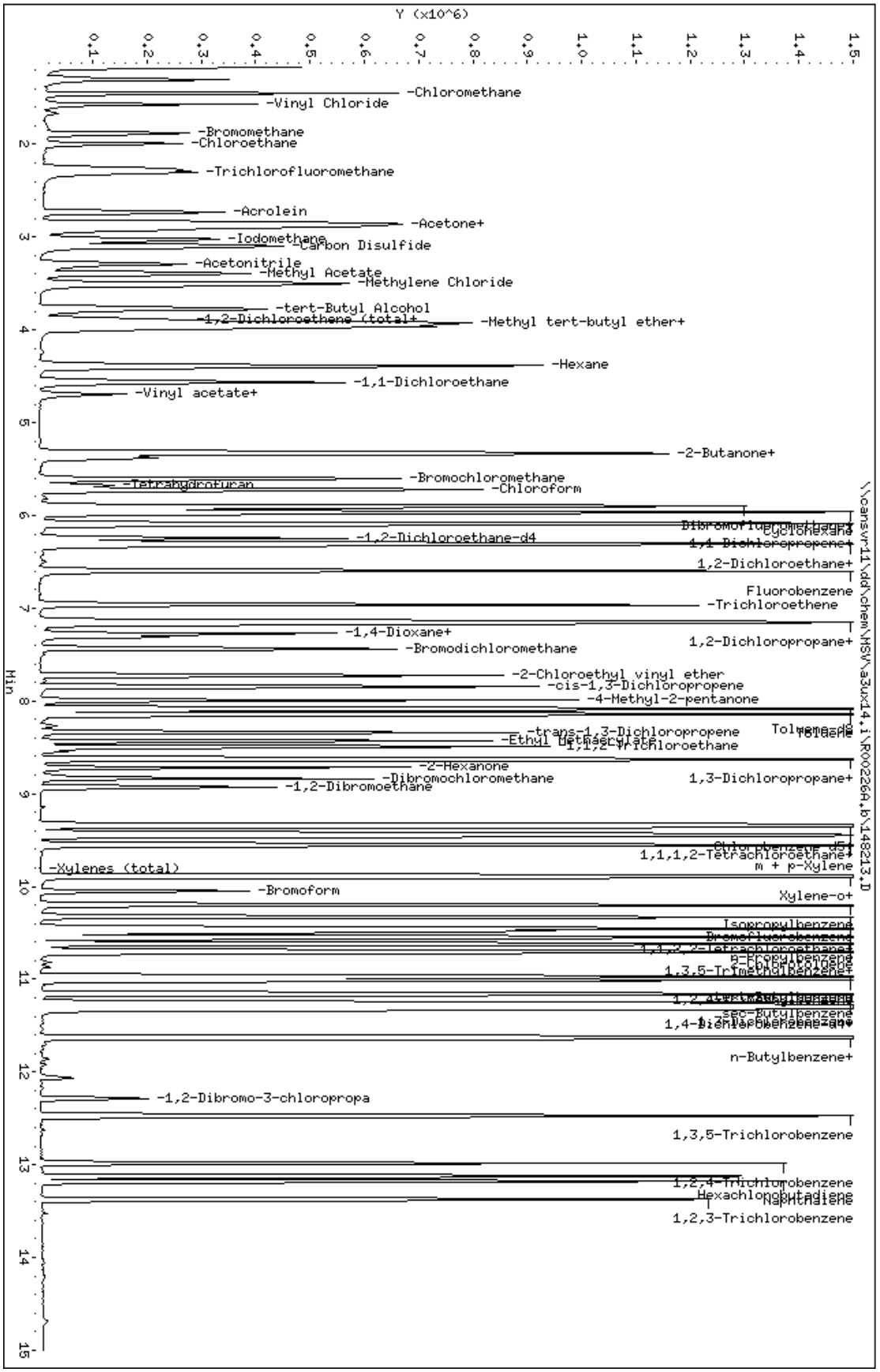
Instrument ID: a3ux14.i
Lab File ID: 148213.D
Lab Smp Id: 250NG-CC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,2

Calibration Date: 26-FEB-2010
Calibration Time: 11:52
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1360516	680258	2721032	1312011	-3.57
2 Chlorobenzene-d5	954083	477042	1908166	965181	1.16
3 1,4-Dichlorobenze	468006	234003	936012	531218	13.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Date : 26-FEB-2010 11:30
Client ID:
Sample Info: 250NG-CC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
* 1 Fluorobenzene	0.0000	50.000	0.00	0-0
* 2 Chlorobenzene-d5	0.0000	50.000	0.00	0-0
* 3 1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$ 6 Toluene-d8	50.000	50.207	100.41	50-150
$ 7 Bromofluorobenzene	50.000	50.804	101.61	50-150
60 1,1,1,2-Tetrachlor	5.000	5.495	109.90	70-130
37 1,1,1-Trichloroeth	5.000	6.017	120.35	70-130
68 1,1,2,2-Tetrachlor	5.000	5.549	110.98	70-130
53 1,1,2-Trichloroeth	5.000	5.350	107.01	70-130
28 1,1-Dichloroethane	5.000	5.685	113.70	70-130
17 1,1-Dichloroethene	5.000	5.868	117.37	70-130
38 1,1-Dichloropropen	5.000	5.701	114.02	70-130
88 1,2,3-Trichloroben	5.000	6.260	125.20	70-130
70 1,2,3-Trichloropro	5.000	5.612	112.24	70-130
85 1,2,4-Trichloroben	5.000	5.886	117.72	70-130
77 1,2,4-Trimethylben	5.000	5.240	104.79	70-130
84 1,2-Dibromo-3-chlo	5.000	4.952	99.04	70-130
58 1,2-Dibromoethane	5.000	5.482	109.64	70-130
83 1,2-Dichlorobenzen	5.000	5.873	117.46	70-130
40 1,2-Dichloroethane	5.000	5.653	113.07	70-130
43 1,2-Dichloropropan	5.000	5.334	106.67	70-130
74 1,3,5-Trimethylben	5.000	5.377	107.54	70-130
80 1,3-Dichlorobenzen	5.000	5.712	114.23	70-130
54 1,3-Dichloropropan	5.000	5.384	107.67	70-130
81 1,4-Dichlorobenzen	5.000	5.885	117.70	70-130
33 2,2-Dichloropropan	5.000	5.371	107.41	70-130
30 2-Butanone	10.000	9.361	93.61	70-130
73 2-Chlorotoluene	5.000	6.016	120.31	70-130
56 2-Hexanone	10.000	9.684	96.85	70-130
75 4-Chlorotoluene	5.000	6.210	124.20	70-130
49 4-Methyl-2-pentano	10.000	9.270	92.70	70-130
16 Acetone	10.000	7.957	79.57	70-130
41 Benzene	5.000	5.497	109.93	70-130
71 Bromobenzene	5.000	6.129	122.59	70-130
34 Bromochloromethane	5.000	5.909	118.17	70-130
46 Bromodichlorometha	5.000	5.093	101.87	70-130
66 Bromoform	5.000	5.008	100.15	70-130
11 Bromomethane	5.000	6.653	133.06*	70-130

20 Carbon Disulfide	5.000	5.312	106.24	70-130
39 Carbon Tetrachlori	5.000	6.762	135.24*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	59 Chlorobenzene	5.000	5.781	115.62	70-130
	57 Dibromochlorometha	5.000	4.881	97.61	70-130
	12 Chloroethane	5.000	5.575	111.50	70-130
	35 Chloroform	5.000	5.586	111.73	70-130
	9 Chloromethane	5.000	5.275	105.49	70-130
	32 cis-1,2-dichloroet	5.000	5.430	108.61	70-130
	48 cis-1,3-Dichloropr	5.000	4.649	92.97	70-130
	45 Dibromomethane	5.000	5.631	112.63	70-130
	8 Dichlorodifluorome	5.000	5.811	116.23	70-130
	61 Ethylbenzene	5.000	5.609	112.18	70-130
	86 Hexachlorobutadien	5.000	5.736	114.72	70-130
	67 Isopropylbenzene	5.000	5.232	104.64	70-130
	62 m + p-Xylene	10.000	11.484	114.84	70-130
	21 Methylene Chloride	5.000	3.557	71.13	70-130
	87 Naphthalene	5.000	4.578	91.55	70-130
	82 n-Butylbenzene	5.000	4.982	99.64	70-130
	72 n-Propylbenzene	5.000	5.474	109.47	70-130
	64 Xylene-o	5.000	5.484	109.67	70-130
	79 4-Isopropyltoluene	5.000	4.982	99.65	70-130
	78 sec-Butylbenzene	5.000	5.291	105.82	70-130
	65 Styrene	5.000	5.075	101.51	70-130
	76 tert-Butylbenzene	5.000	5.023	100.47	70-130
	55 Tetrachloroethene	5.000	5.780	115.61	70-130
	50 Toluene	5.000	6.701	134.03*	70-130
	25 trans-1,2-Dichloro	5.000	5.594	111.88	70-130
	51 trans-1,3-Dichloro	5.000	4.565	91.31	70-130
	42 Trichloroethene	5.000	5.730	114.60	70-130
	13 Trichlorofluoromet	5.000	5.536	110.72	70-130
	10 Vinyl Chloride	5.000	5.924	118.49	70-130
	19 Iodomethane	5.000	6.023	120.45	70-130
	24 Methyl tert-butyl	5.000	5.441	108.83	70-130
	15 Acrolein	50.000	67.912	135.82*	70-130
	18 Freon-113	5.000	6.402	128.03	70-130
	22 Acetonitrile	50.000	59.308	118.62	70-130
	23 Acrylonitrile	10.000	11.212	112.12	70-130
	26 Hexane	5.000	5.457	109.15	70-130
	29 tert-Butyl Alcohol	100.00	109.90	109.90	70-130
M	31 1,2-Dichloroethene	10.000	11.024	110.24	70-130
	36 Tetrahydrofuran	5.000	4.695	93.91	70-130
	47 2-Chloroethyl viny	10.000	8.702	87.02	70-130
	44 1,4-Dioxane	250.00	232.91	93.16	70-130
	52 Ethyl Methacrylate	5.000	4.551	91.02	70-130
M	63 Xylenes (total)	15.000	16.967	113.12	70-130
	69 1,4-Dichloro-2-but	5.000	5.434	108.68	70-130
	98 Cyclohexane	5.000	5.929	118.58	70-130
	141 1,3,5-Trichloroben	5.000	5.776	115.52	70-130
	143 Methyl Acetate	10.000	10.588	105.88	70-130
	144 Methylcyclohexane	5.000	5.412	108.24	70-130
	27 Vinyl acetate	5.000	4.962	99.23	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	50.000	48.249	96.50	59-138
$ 5 1,2-Dichloroethane	50.000	47.230	94.46	61-130
$ 6 Toluene-d8	50.000	50.207	100.41	60-143
$ 7 Bromofluorobenzene	50.000	50.804	101.61	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Lab Smp Id: QCMRL
Inj Date : 26-FEB-2010 13:19
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMRL
Misc Info : R00226A,8260SUX14,1-8260.SUB,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 7 QC Sample: MRL
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1320373	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	963026	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	523833	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	350929	241.244	48.249
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	352201	236.152	47.230
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1310590	251.037	50.207
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	493396	254.023	50.804
8 Dichlorodifluoromethane	85	1.310	1.298	(0.199)	38805	29.0574	5.811
9 Chloromethane	50	1.452	1.452	(0.220)	50918	26.3731	5.275
10 Vinyl Chloride	62	1.570	1.570	(0.238)	43138	29.6226	5.924
11 Bromomethane	94	1.890	1.878	(0.286)	23652	33.2652	6.653(R)
12 Chloroethane	64	2.008	1.996	(0.304)	23938	27.8741	5.575
13 Trichlorofluoromethane	101	2.280	2.268	(0.346)	38819	27.6796	5.536
15 Acrolein	56	2.730	2.730	(0.414)	56350	339.561	67.912(R)
16 Acetone	43	2.943	2.931	(0.446)	41539	39.7843	7.957
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	37015	29.3416	5.868
18 Freon-113	151	2.896	2.896	(0.439)	32429	32.0084	6.402
19 Iodomethane	142	3.026	3.026	(0.459)	64748	30.1136	6.023
20 Carbon Disulfide	76	3.097	3.097	(0.469)	95973	26.5610	5.312

21	Methylene Chloride	84	3.511	3.499 (0.532)	53376	17.7832	3.557
22	Acetonitrile	41	3.298	3.286 (0.500)	51940	296.542	59.308
23	Acrylonitrile	53	3.890	3.890 (0.589)	29133	56.0608	11.212

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	89173	27.2071	5.441
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	40974	27.9693	5.594
	26 Hexane	86	4.398	4.387	(0.666)	9225	27.2872	5.457
	27 Vinyl acetate	43	4.694	4.694	(0.711)	41929	24.8079	4.962
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	3430	22.7767	4.555(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	74514	28.4254	5.685
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	65628	549.487	109.90
	30 2-Butanone	43	5.392	5.380	(0.817)	31670	46.8071	9.361
M	31 1,2-Dichloroethene (total)	96				81730	55.1211	11.024
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	40756	27.1518	5.430
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	27542	26.8530	5.371
	34 Bromochloromethane	128	5.605	5.605	(0.849)	21554	29.5433	5.909
	35 Chloroform	83	5.724	5.724	(0.867)	67117	27.9320	5.586
	36 Tetrahydrofuran	42	5.688	5.676	(0.862)	10289	23.4771	4.695
	37 1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	52275	30.0871	6.017
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	51934	28.5042	5.701
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	51056	33.8090	6.762(R)
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	50271	28.2671	5.653
	41 Benzene	78	6.303	6.303	(0.955)	156851	27.4835	5.497
	42 Trichloroethene	130	6.966	6.966	(1.056)	45063	28.6493	5.730
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	38129	26.6681	5.334
	44 1,4-Dioxane	88	7.321	7.309	(1.109)	13738	1164.53	232.91
	45 Dibromomethane	93	7.274	7.274	(1.102)	20501	28.1565	5.631
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	37588	25.4673	5.093
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	23576	43.5119	8.702
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	42193	23.2435	4.649
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	53903	46.3497	9.270
	50 Toluene	91	8.138	8.138	(0.872)	190586	33.5066	6.701(R)
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	34124	22.8275	4.565
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	27421	22.7538	4.551
	53 1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	27144	26.7513	5.350
	54 1,3-Dichloropropane	76	8.635	8.635	(0.925)	45760	26.9180	5.384
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	34707	28.9020	5.780
	56 2-Hexanone	43	8.717	8.717	(0.934)	38797	48.4229	9.684
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	25847	24.4034	4.881
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	26852	27.4088	5.482
	59 Chlorobenzene	112	9.356	9.356	(1.003)	113012	28.9059	5.781
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	34069	27.4755	5.495
	61 Ethylbenzene	106	9.451	9.451	(1.013)	56515	28.0454	5.609
	62 m + p-Xylene	106	9.557	9.557	(1.024)	139981	57.4184	11.484
M	63 Xylenes (total)	106				202963	84.8367	16.967
	64 Xylene-o	106	9.889	9.889	(1.060)	62982	27.4183	5.484
	65 Styrene	104	9.901	9.901	(1.061)	92662	25.3774	5.075
	66 Bromoform	173	10.054	10.054	(1.077)	16056	25.0383	5.008
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	161272	26.1599	5.232
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	35651	27.7445	5.549
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	10832	27.1699	5.434
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	10449	28.0595	5.612
	71 Bromobenzene	156	10.457	10.457	(0.925)	47267	30.6465	6.129
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	49078	27.3679	5.474
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	43882	30.0785	6.016
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	133528	26.8850	5.377

75 4-Chlorotoluene	126	10.717	10.717 (0.948)	47829	31.0490	6.210
76 tert-Butylbenzene	119	10.977	10.977 (0.971)	115509	25.1165	5.023

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	132818	26.1985	5.240
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	174963	26.4540	5.291
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	140034	24.9120	4.982
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	83627	28.5580	5.712
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	91413	29.4257	5.885
82	n-Butylbenzene	91	11.616	11.616	(1.027)	121492	24.9091	4.982
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	80509	29.3648	5.873
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	5491	24.7611	4.952
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	52216	29.4305	5.886
87	Naphthalene	128	13.178	13.178	(1.165)	93457	22.8877	4.578
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	32619	28.6804	5.736
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	54702	31.2994	6.260
98	Cyclohexane	56	5.972	5.960	(0.905)	91897	29.6452	5.929
143	Methyl Acetate	43	3.404	3.393	(0.516)	67934	52.9389	10.588
144	Methylcyclohexane	83	7.144	7.144	(1.082)	71718	27.0593	5.412
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	60419	28.8799	5.776

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

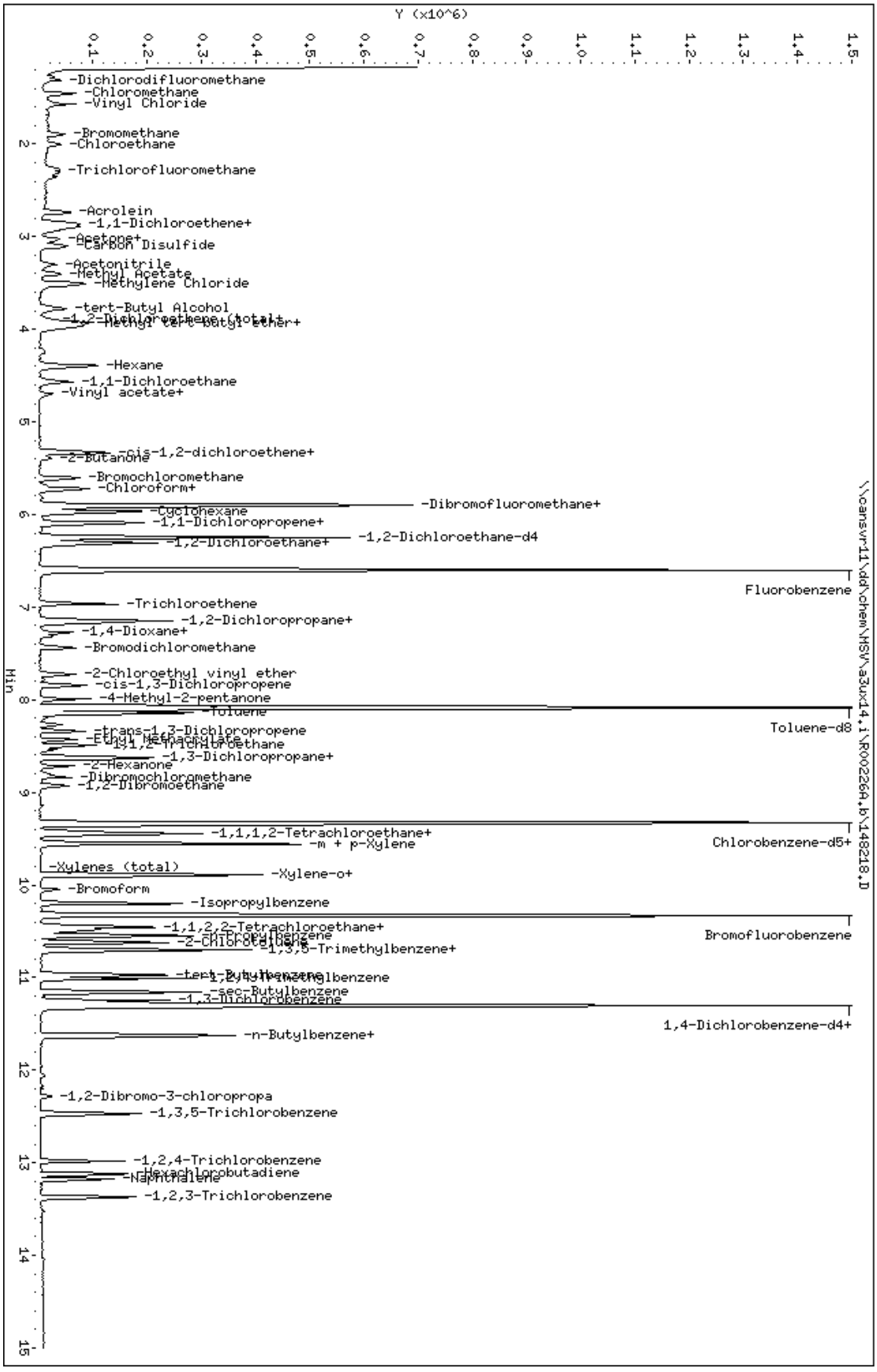
Instrument ID: a3ux14.i
Lab File ID: 148218.D
Lab Smp Id: QCMRL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1320373	0.64
2 Chlorobenzene-d5	965181	482591	1930362	963026	-0.22
3 1,4-Dichlorobenze	531218	265609	1062436	523833	-1.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
Min
Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Date : 26-FEB-2010 13:19
Client ID:
Sample Info: QCHRL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane+
Bromofluorobenzene
-1,3,5-Trimethylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
* 1 Fluorobenzene	0.0000	50.000	0.00	0-0
* 2 Chlorobenzene-d5	0.0000	50.000	0.00	0-0
* 3 1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$ 6 Toluene-d8	50.000	49.910	99.82	50-150
$ 7 Bromofluorobenzene	50.000	50.305	100.61	50-150
60 1,1,1,2-Tetrachlor	5.000	5.097	101.93	70-130
37 1,1,1-Trichloroeth	5.000	6.088	121.77	70-130
68 1,1,2,2-Tetrachlor	5.000	5.378	107.56	70-130
53 1,1,2-Trichloroeth	5.000	5.240	104.80	70-130
28 1,1-Dichloroethane	5.000	5.373	107.47	70-130
17 1,1-Dichloroethene	5.000	5.637	112.73	70-130
38 1,1-Dichloropropen	5.000	5.291	105.82	70-130
88 1,2,3-Trichloroben	5.000	4.504	90.09	70-130
70 1,2,3-Trichloropro	5.000	6.097	121.95	70-130
85 1,2,4-Trichloroben	5.000	4.496	89.92	70-130
77 1,2,4-Trimethylben	5.000	4.763	95.27	70-130
84 1,2-Dibromo-3-chlo	5.000	4.342	86.83	70-130
58 1,2-Dibromoethane	5.000	5.159	103.18	70-130
83 1,2-Dichlorobenzen	5.000	5.452	109.04	70-130
40 1,2-Dichloroethane	5.000	5.496	109.93	70-130
43 1,2-Dichloropropan	5.000	5.168	103.36	70-130
74 1,3,5-Trimethylben	5.000	4.896	97.91	70-130
80 1,3-Dichlorobenzen	5.000	5.362	107.24	70-130
54 1,3-Dichloropropan	5.000	5.344	106.87	70-130
81 1,4-Dichlorobenzen	5.000	5.363	107.27	70-130
33 2,2-Dichloropropan	5.000	5.300	106.00	70-130
30 2-Butanone	10.000	8.750	87.50	70-130
73 2-Chlorotoluene	5.000	5.713	114.25	70-130
56 2-Hexanone	10.000	8.941	89.41	70-130
75 4-Chlorotoluene	5.000	5.560	111.20	70-130
49 4-Methyl-2-pentano	10.000	8.570	85.70	70-130
16 Acetone	10.000	10.842	108.42	70-130
41 Benzene	5.000	5.286	105.72	70-130
71 Bromobenzene	5.000	5.485	109.70	70-130
34 Bromochloromethane	5.000	5.416	108.33	70-130
46 Bromodichlorometha	5.000	5.202	104.05	70-130
66 Bromoform	5.000	4.659	93.17	70-130
11 Bromomethane	5.000	6.228	124.57	70-130

20 Carbon Disulfide	5.000	5.276	105.53	70-130
39 Carbon Tetrachlori	5.000	6.722	134.43*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	59 Chlorobenzene	5.000	5.719	114.38	70-130
	57 Dibromochlorometha	5.000	4.852	97.05	70-130
	12 Chloroethane	5.000	5.197	103.94	70-130
	35 Chloroform	5.000	5.420	108.40	70-130
	9 Chloromethane	5.000	5.186	103.73	70-130
	32 cis-1,2-dichloroet	5.000	5.100	102.01	70-130
	48 cis-1,3-Dichloropr	5.000	4.147	82.94	70-130
	45 Dibromomethane	5.000	5.623	112.46	70-130
	8 Dichlorodifluorome	5.000	5.454	109.09	70-130
	61 Ethylbenzene	5.000	5.430	108.60	70-130
	86 Hexachlorobutadien	5.000	5.105	102.09	70-130
	67 Isopropylbenzene	5.000	4.675	93.50	70-130
	62 m + p-Xylene	10.000	10.724	107.24	70-130
	21 Methylene Chloride	5.000	4.150	82.99	70-130
	87 Naphthalene	5.000	3.219	64.38*	70-130
	82 n-Butylbenzene	5.000	4.521	90.41	70-130
	72 n-Propylbenzene	5.000	5.017	100.35	70-130
	64 Xylene-o	5.000	5.048	100.95	70-130
	79 4-Isopropyltoluene	5.000	4.491	89.81	70-130
	78 sec-Butylbenzene	5.000	4.805	96.10	70-130
	65 Styrene	5.000	4.830	96.61	70-130
	76 tert-Butylbenzene	5.000	4.431	88.62	70-130
	55 Tetrachloroethene	5.000	5.447	108.94	70-130
	50 Toluene	5.000	6.295	125.89	70-130
	25 trans-1,2-Dichloro	5.000	5.530	110.59	70-130
	51 trans-1,3-Dichloro	5.000	4.345	86.90	70-130
	42 Trichloroethene	5.000	5.238	104.77	70-130
	13 Trichlorofluoromet	5.000	5.031	100.63	70-130
	10 Vinyl Chloride	5.000	5.273	105.46	70-130
	19 Iodomethane	5.000	5.904	118.07	70-130
	24 Methyl tert-butyl	5.000	4.980	99.61	70-130
	15 Acrolein	50.000	78.620	157.24*	70-130
	18 Freon-113	5.000	6.325	126.51	70-130
	22 Acetonitrile	50.000	58.428	116.86	70-130
	23 Acrylonitrile	10.000	9.934	99.34	70-130
	26 Hexane	5.000	5.240	104.81	70-130
	29 tert-Butyl Alcohol	100.00	100.94	100.94	70-130
M	31 1,2-Dichloroethene	10.000	10.630	106.30	70-130
	36 Tetrahydrofuran	5.000	4.290	85.80	70-130
	47 2-Chloroethyl viny	10.000	7.742	77.42	70-130
	44 1,4-Dioxane	250.00	238.51	95.40	70-130
	52 Ethyl Methacrylate	5.000	4.355	87.10	70-130
M	63 Xylenes (total)	15.000	15.771	105.14	70-130
	69 1,4-Dichloro-2-but	5.000	4.607	92.14	70-130
	98 Cyclohexane	5.000	5.738	114.75	70-130
	141 1,3,5-Trichloroben	5.000	5.066	101.31	70-130
	143 Methyl Acetate	10.000	9.160	91.60	70-130
	144 Methylcyclohexane	5.000	5.118	102.36	70-130
	27 Vinyl acetate	5.000	5.632	112.63	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	50.000	50.840	101.68	59-138
$ 5 1,2-Dichloroethane	50.000	50.322	100.64	61-130
$ 6 Toluene-d8	50.000	49.910	99.82	60-143
$ 7 Bromofluorobenzene	50.000	50.305	100.61	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Lab Smp Id: QCMRL
Inj Date : 26-FEB-2010 21:17
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMRL
Misc Info : R00226A,8260SUX14,1-8260.SUB,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 29 QC Sample: MRL
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1145191	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	847304	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	481941	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	320719	254.203	50.840
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	325469	251.611	50.322
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1146285	249.552	49.910
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	449472	251.524	50.305
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	31589	27.2725	5.454
9 Chloromethane	50	1.452	1.452	(0.220)	43423	25.9316	5.186
10 Vinyl Chloride	62	1.570	1.570	(0.238)	33301	26.3657	5.273
11 Bromomethane	94	1.890	1.878	(0.286)	19205	31.1426	6.228
12 Chloroethane	64	1.996	1.996	(0.303)	19355	25.9851	5.197
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	30600	25.1568	5.031
15 Acrolein	56	2.730	2.730	(0.414)	56580	393.102	78.620(R)
16 Acetone	43	2.931	2.931	(0.444)	40891	54.2109	10.842
17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	30837	28.1837	5.637
18 Freon-113	151	2.896	2.896	(0.439)	27791	31.6267	6.325
19 Iodomethane	142	3.026	3.026	(0.459)	55046	29.5176	5.904
20 Carbon Disulfide	76	3.097	3.097	(0.469)	82680	26.3824	5.276

21 Methylene Chloride	84	3.511	3.499 (0.532)	49652	20.7482	4.150
22 Acetonitrile	41	3.298	3.286 (0.500)	44380	292.139	58.428
23 Acrylonitrile	53	3.889	3.890 (0.589)	22387	49.6694	9.934

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	70787	24.9013	4.980
	25 trans-1,2-Dichloroethene	96	3.937	3.925	(0.597)	35129	27.6476	5.530
	26 Hexane	86	4.398	4.387	(0.666)	7683	26.2024	5.240
	27 Vinyl acetate	43	4.694	4.694	(0.711)	41278	28.1587	5.632
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	3525	26.9882	5.398(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	61084	26.8667	5.373
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	52279	504.678	100.94
	30 2-Butanone	43	5.380	5.380	(0.815)	25675	43.7515	8.750
M	31 1,2-Dichloroethene (total)	96				68329	53.1490	10.630
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	33200	25.5014	5.100
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	23574	26.5002	5.300
	34 Bromochloromethane	128	5.605	5.605	(0.849)	17137	27.0822	5.416
	35 Chloroform	83	5.724	5.724	(0.867)	56479	27.1003	5.420
	36 Tetrahydrofuran	42	5.688	5.676	(0.862)	8153	21.4490	4.290
	37 1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	45875	30.4425	6.088
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	41806	26.4554	5.291
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	44019	33.6082	6.722(R)
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	42391	27.4825	5.496
	41 Benzene	78	6.303	6.303	(0.955)	130821	26.4290	5.286
	42 Trichloroethene	130	6.966	6.966	(1.056)	35732	26.1921	5.238
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	32043	25.8398	5.168
	44 1,4-Dioxane	88	7.309	7.309	(1.108)	12202	1192.55	238.51
	45 Dibromomethane	93	7.274	7.274	(1.102)	17755	28.1153	5.623
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	33299	26.0126	5.202
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	17578	38.7121	7.742
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	32646	20.7353	4.147
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	43846	42.8512	8.570
	50 Toluene	91	8.149	8.138	(0.873)	157509	31.4733	6.295
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	28572	21.7239	4.345
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	22843	21.7753	4.355
	53 1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	23390	26.1999	5.240
	54 1,3-Dichloropropane	76	8.634	8.635	(0.925)	39963	26.7186	5.344
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	28774	27.2339	5.447
	56 2-Hexanone	43	8.717	8.717	(0.934)	31515	44.7063	8.941
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	22610	24.2627	4.852
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	22234	25.7947	5.159
	59 Chlorobenzene	112	9.356	9.356	(1.003)	98360	28.5942	5.719
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	27802	25.4836	5.097
	61 Ethylbenzene	106	9.451	9.451	(1.013)	48137	27.1504	5.430
	62 m + p-Xylene	106	9.557	9.557	(1.024)	115010	53.6187	10.724
M	63 Xylenes (total)	106				166017	78.8565	15.771
	64 Xylene-o	106	9.889	9.889	(1.060)	51007	25.2379	5.048
	65 Styrene	104	9.901	9.901	(1.061)	77589	24.1515	4.830
	66 Bromoform	173	10.054	10.054	(1.077)	13142	23.2931	4.659
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	126789	23.3753	4.675
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	31790	26.8903	5.378
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	8449	23.0347	4.607
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	10445	30.4869	6.097
	71 Bromobenzene	156	10.457	10.457	(0.925)	38915	27.4245	5.485
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	41389	25.0864	5.017
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	38339	28.5634	5.713
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	111851	24.4780	4.896

75	4-Chlorotoluene	126	10.717	10.717 (0.948)	39399	27.7997	5.560
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	93739	22.1545	4.431

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	111088	23.8170	4.763
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	146186	24.0242	4.805
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	116120	22.4534	4.491
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	72231	26.8105	5.362
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	76647	26.8172	5.363
82	n-Butylbenzene	91	11.628	11.616	(1.028)	101429	22.6033	4.521
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	68760	27.2595	5.452
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	4429	21.7082	4.342
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	36695	22.4802	4.496
87	Naphthalene	128	13.178	13.178	(1.165)	60461	16.0940	3.219(R)
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	26707	25.5234	5.105
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	36214	22.5221	4.504
98	Cyclohexane	56	5.960	5.960	(0.903)	77130	28.6877	5.738
143	Methyl Acetate	43	3.393	3.393	(0.514)	50974	45.7989	9.160
144	Methylcyclohexane	83	7.144	7.144	(1.082)	58828	25.5912	5.118
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	48750	25.3277	5.066

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

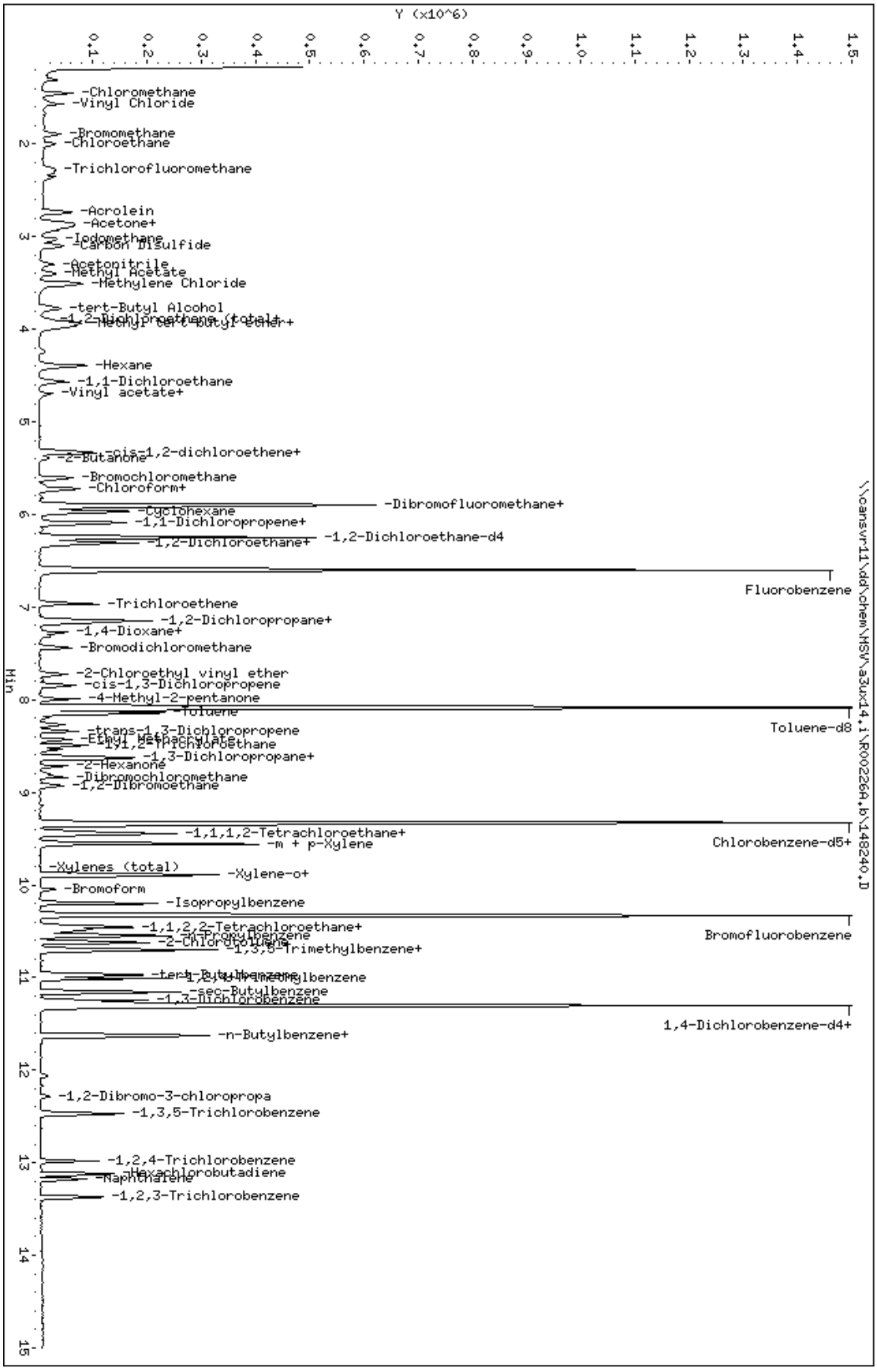
Instrument ID: a3ux14.i
Lab File ID: 148240.D
Lab Smp Id: QCMRL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1145191	-12.71
2 Chlorobenzene-d5	965181	482591	1930362	847304	-12.21
3 1,4-Dichlorobenze	531218	265609	1062436	481941	-9.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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Date : 26-FEB-2010 21:17
Client ID:
Sample Info: QCHRL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R002260.b\148240.D
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-1,2-Dichloroethane-d4
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
Bromofluorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

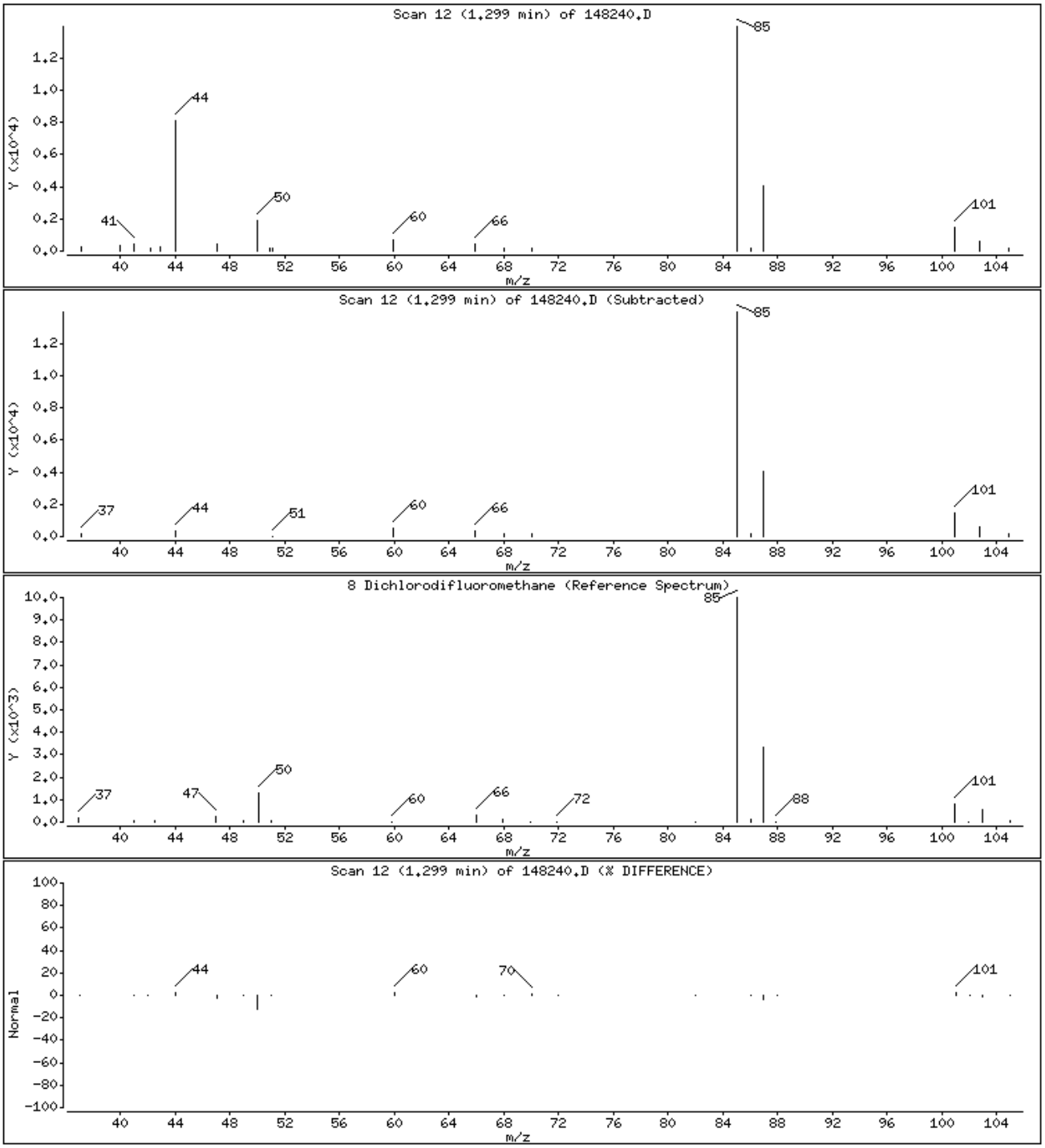
Operator: 2807

Column phase: DB624

Column diameter: 0.18

8 Dichlorodifluoromethane

Concentration: 5.454 UG/KG



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Date : 26-FEB-2010 21:17

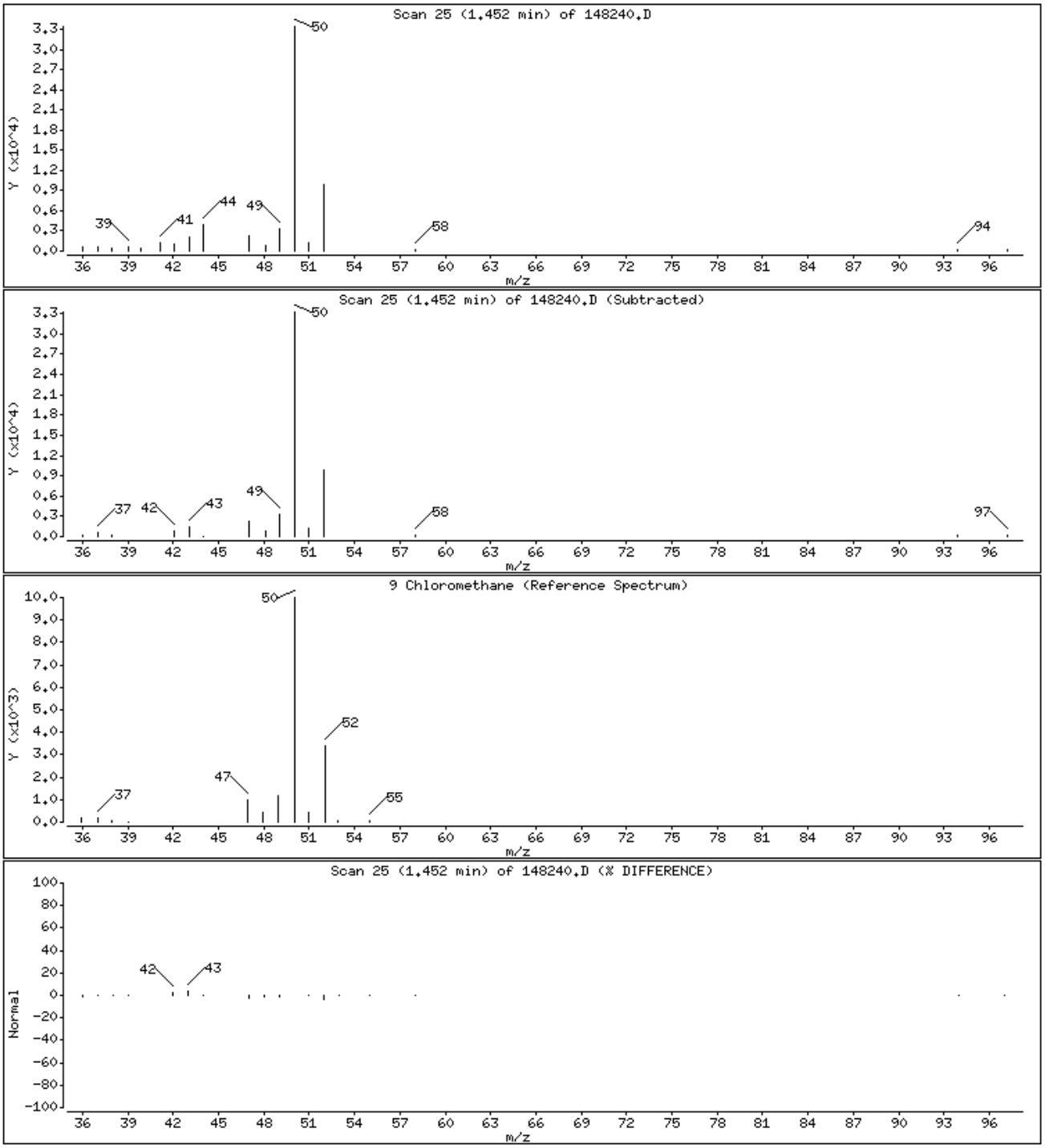
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

9 Chloromethane Concentration: 5.186 UG/KG



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Date : 26-FEB-2010 21:17

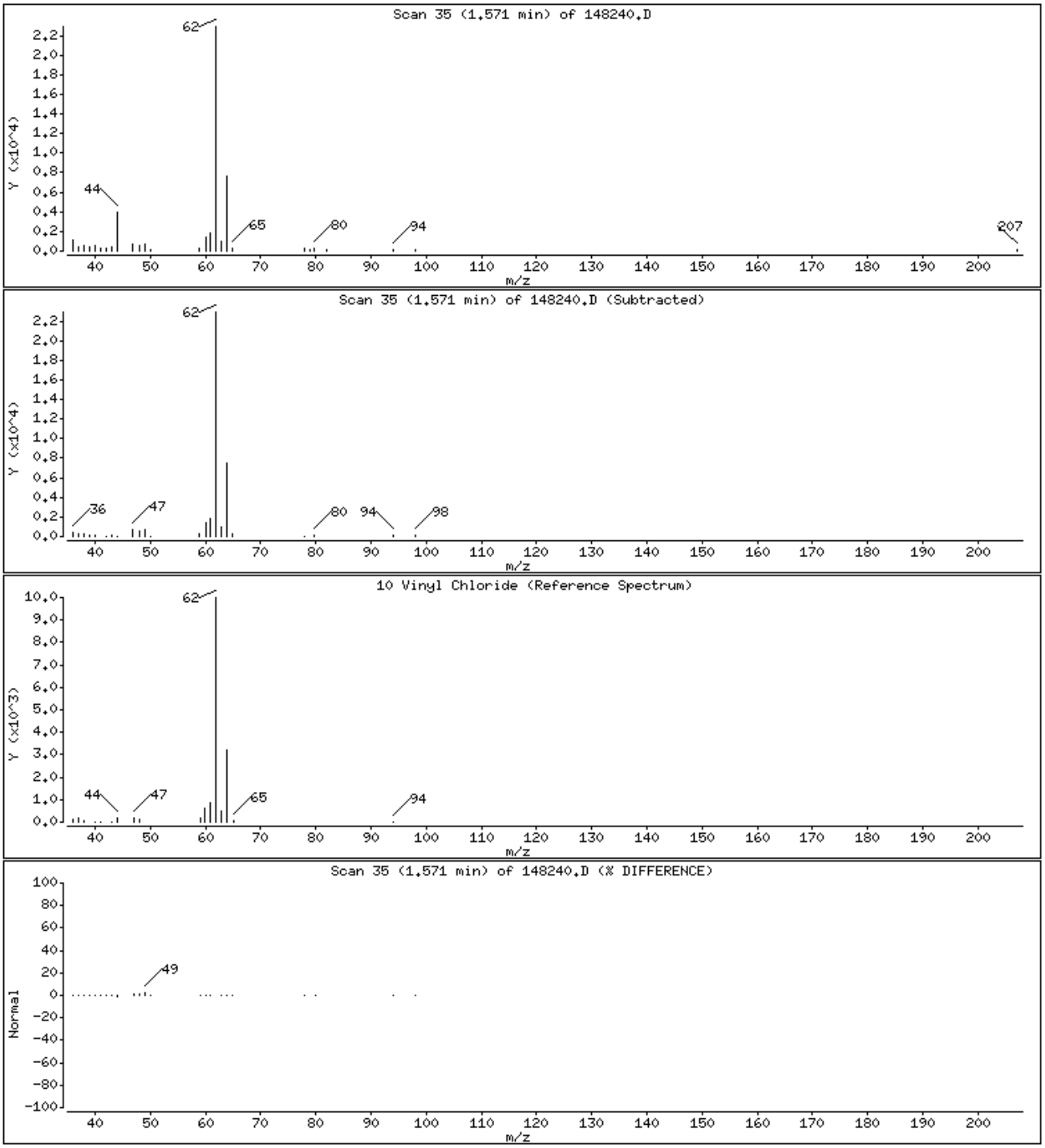
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

10 Vinyl Chloride Concentration: 5.273 UG/KG



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Date : 26-FEB-2010 21:17

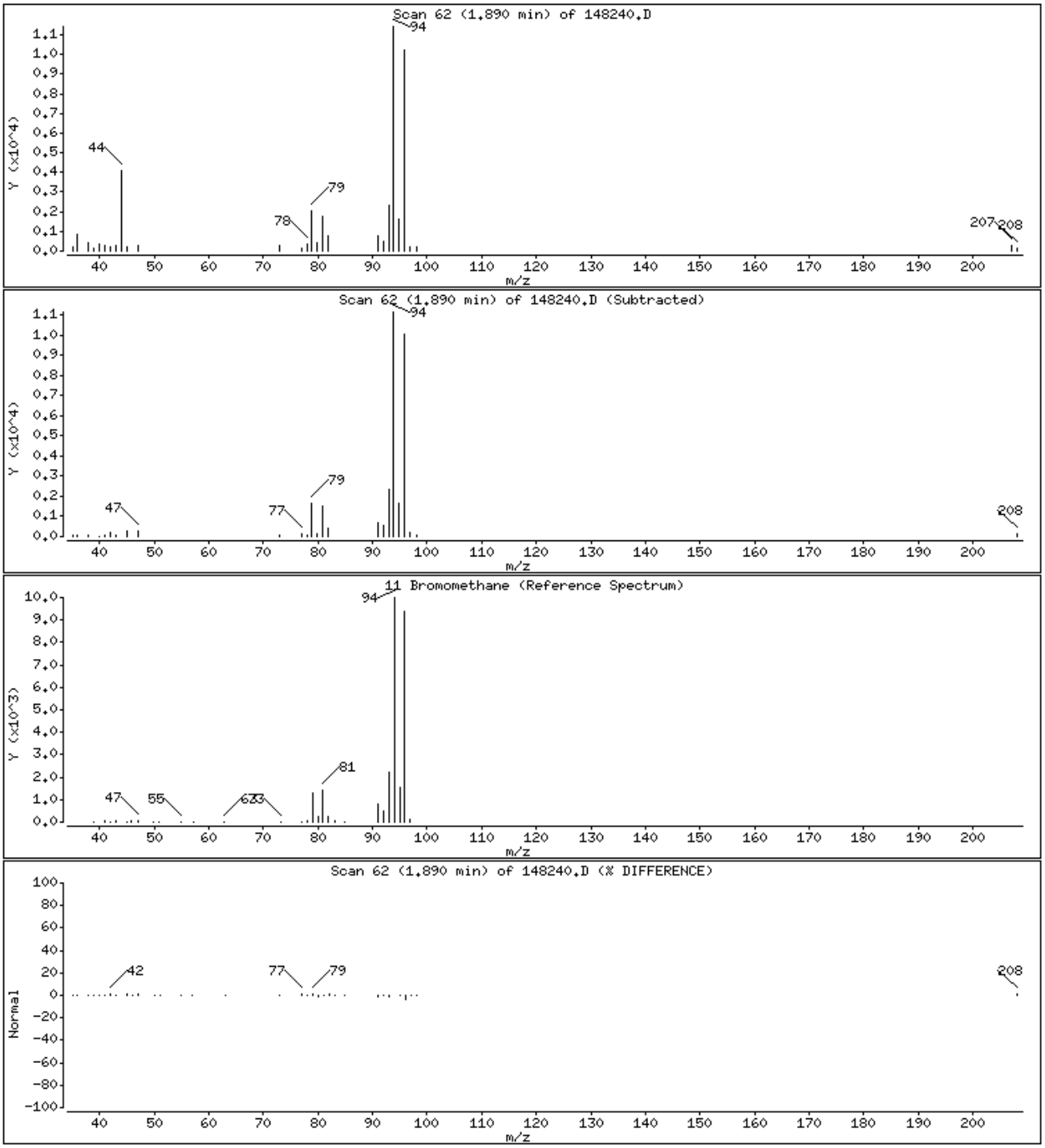
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

11 Bromomethane Concentration: 6.228 UG/KG



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Date : 26-FEB-2010 21:17

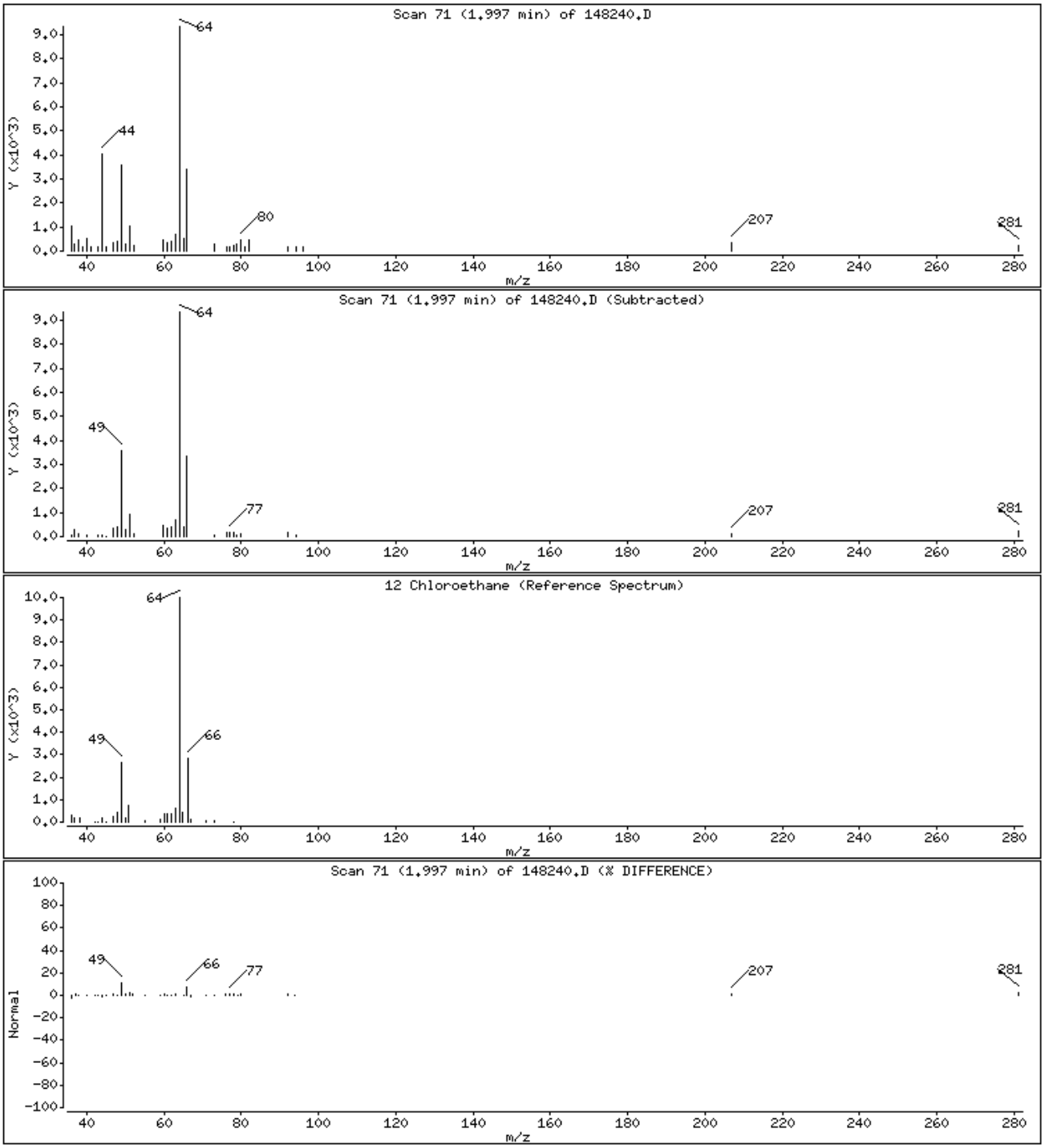
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

12 Chloroethane Concentration: 5.197 UG/KG



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Date : 26-FEB-2010 21:17

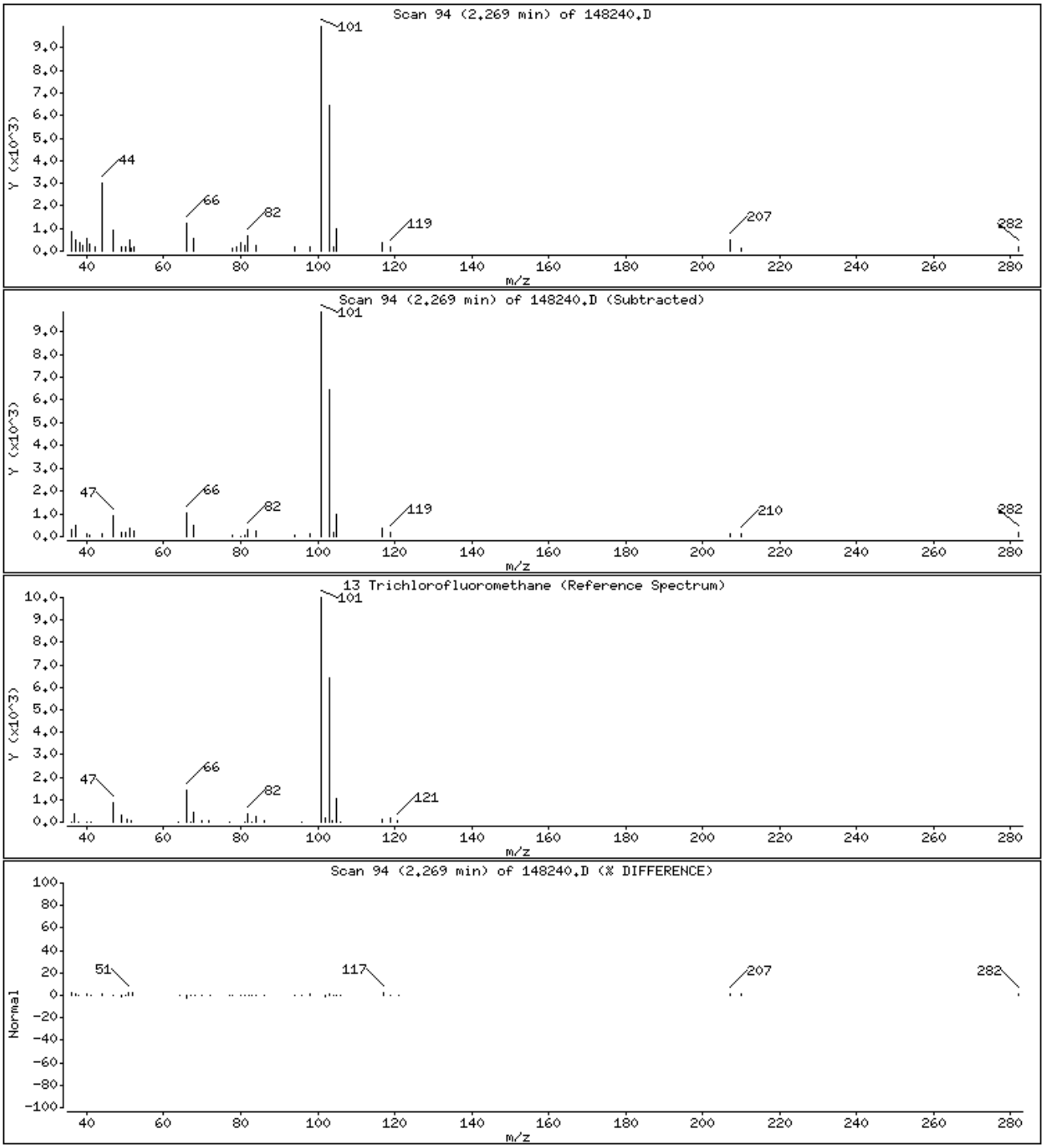
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

13 Trichlorofluoromethane Concentration: 5.031 UG/KG



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Date : 26-FEB-2010 21:17

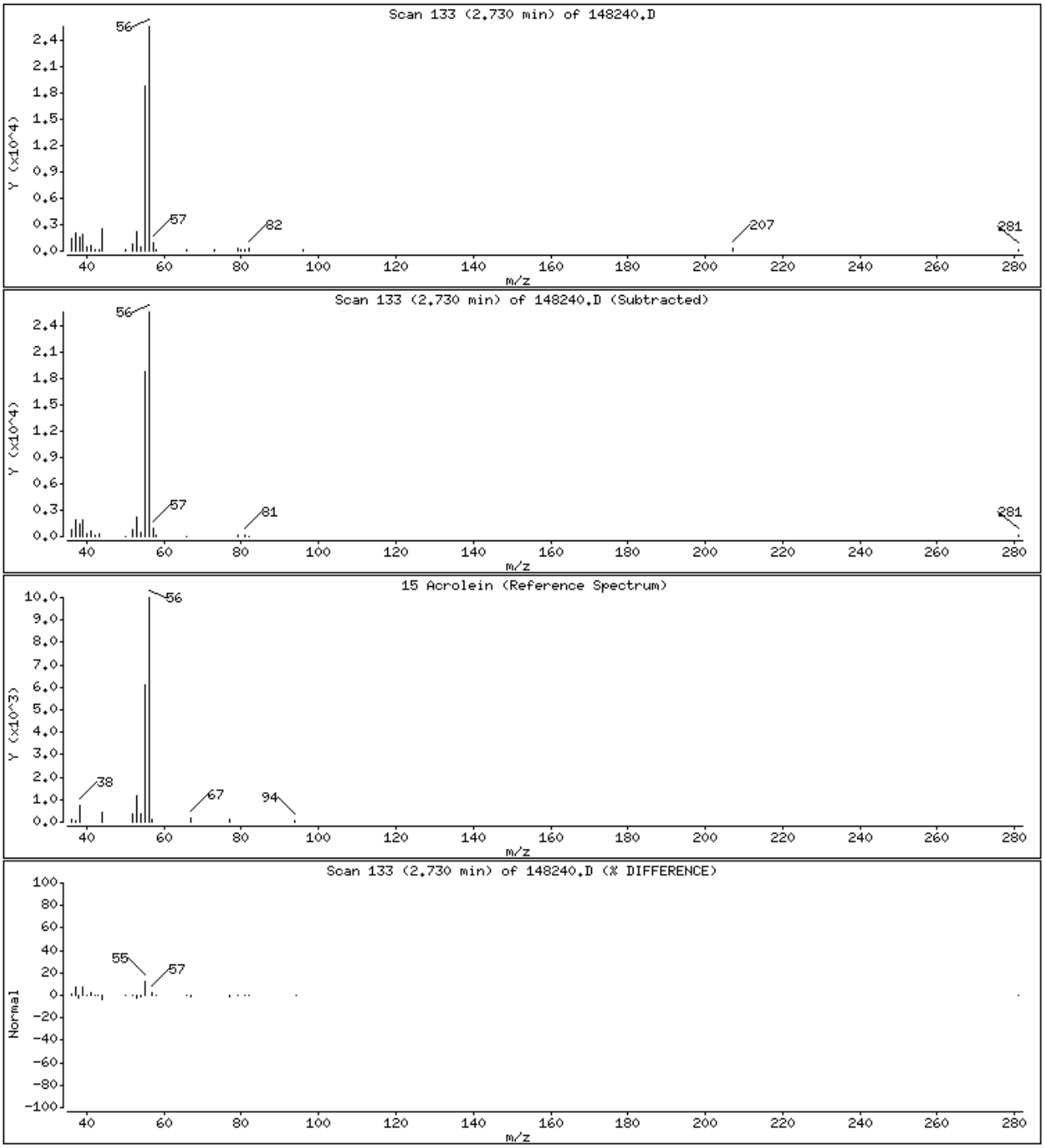
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

15 Acrolein Concentration: 78.620 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

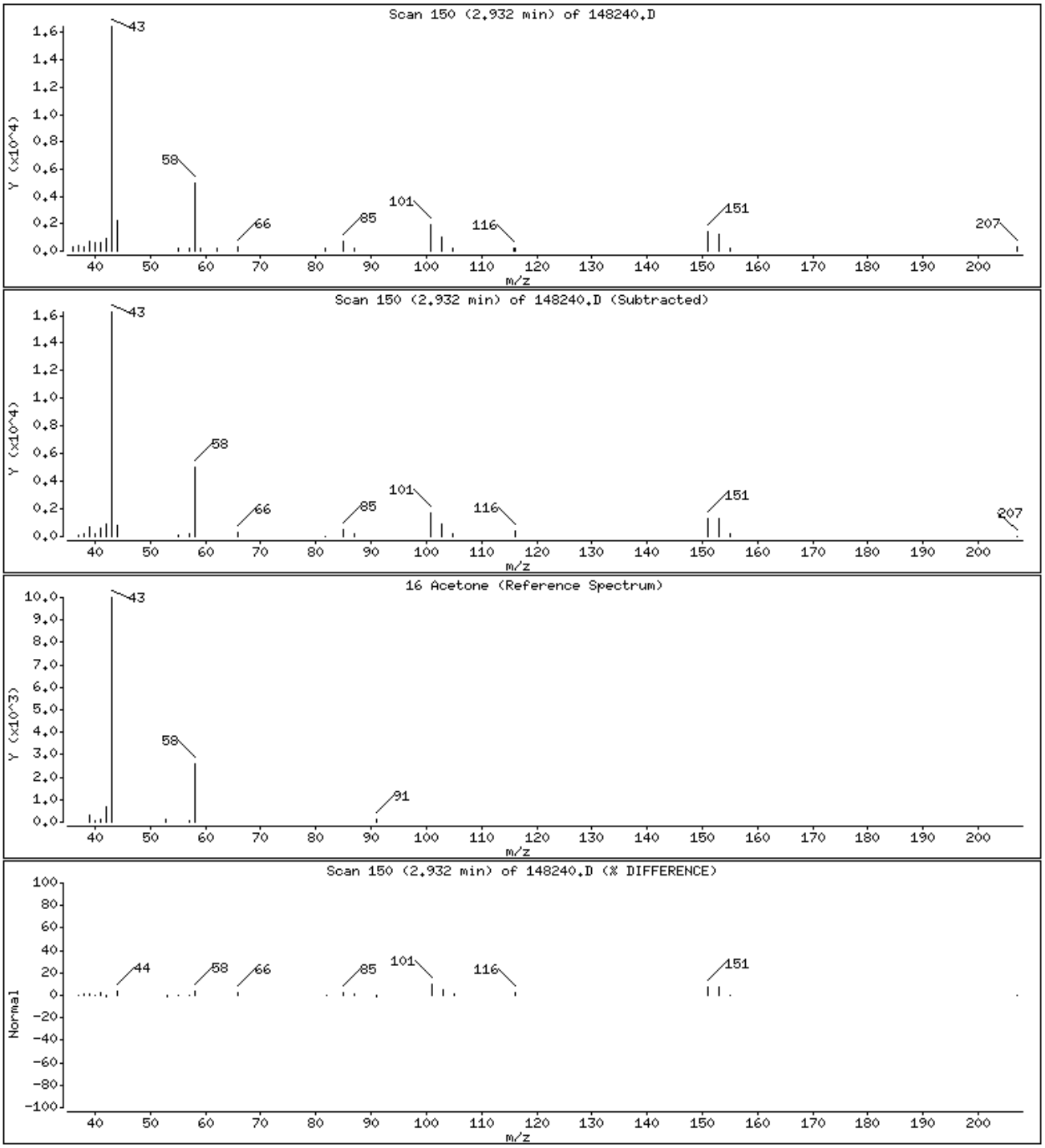
Operator: 2807

Column phase: DB624

Column diameter: 0.18

16 Acetone

Concentration: 10.842 UG/KG



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Date : 26-FEB-2010 21:17

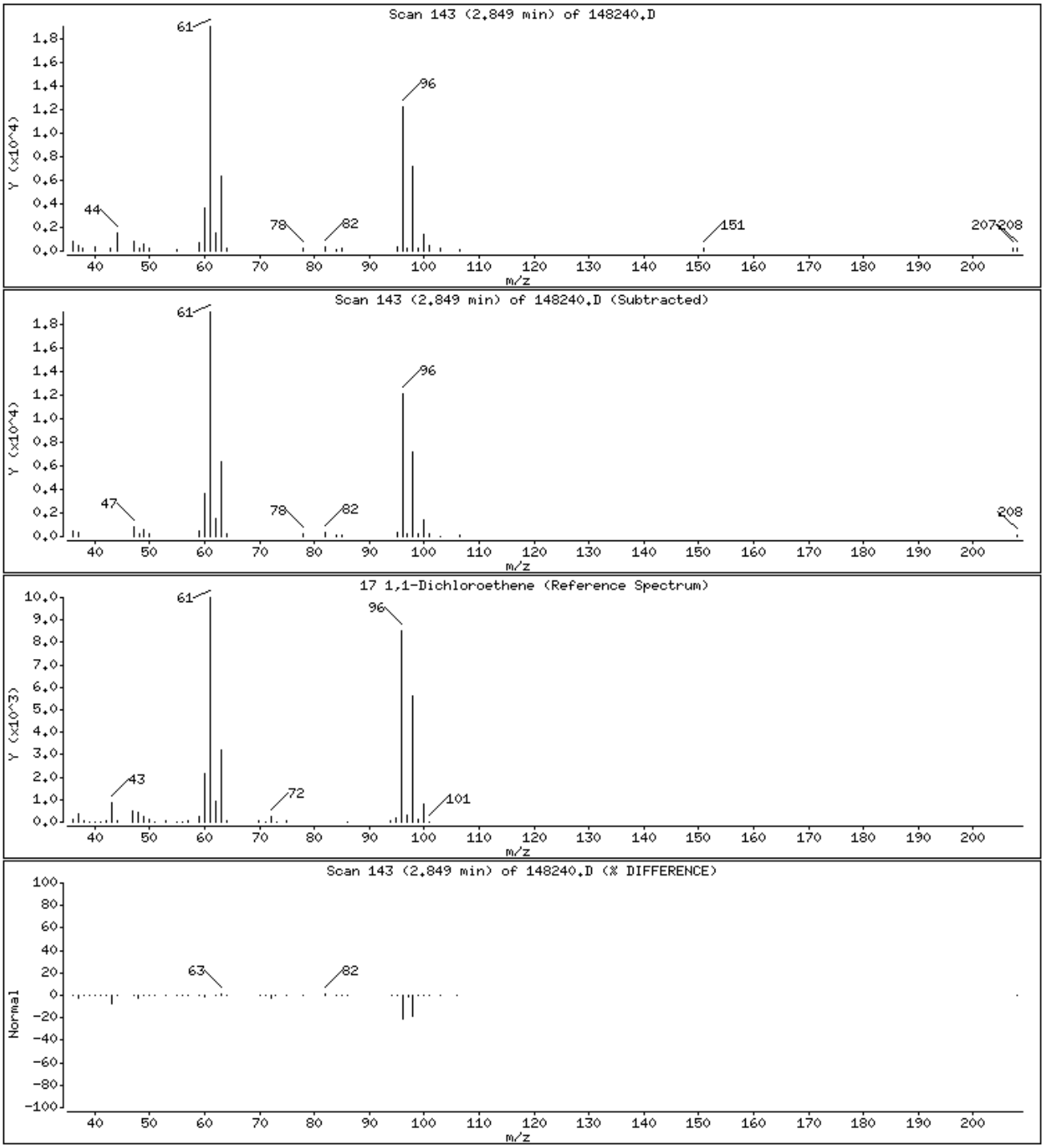
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

17 1,1-Dichloroethene Concentration: 5.637 UG/KG



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Date : 26-FEB-2010 21:17

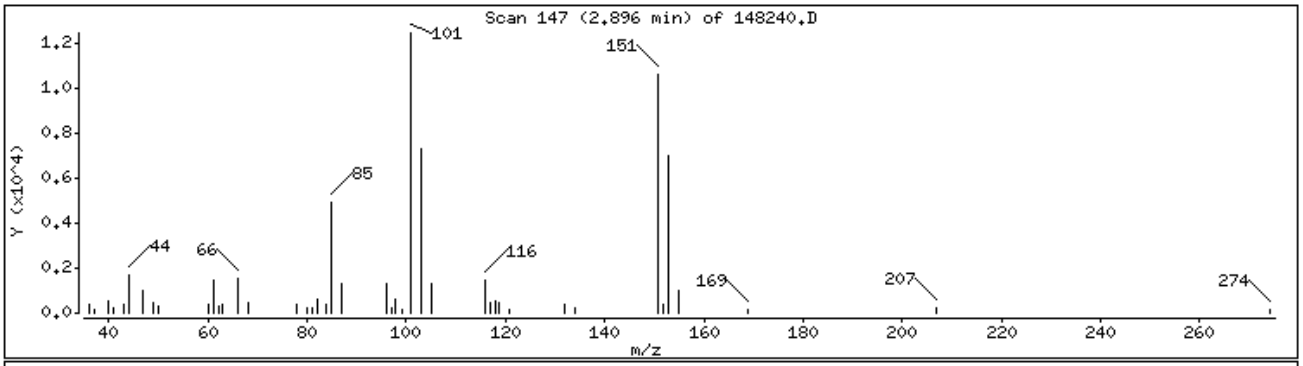
Client ID: Instrument: a3ux14.i

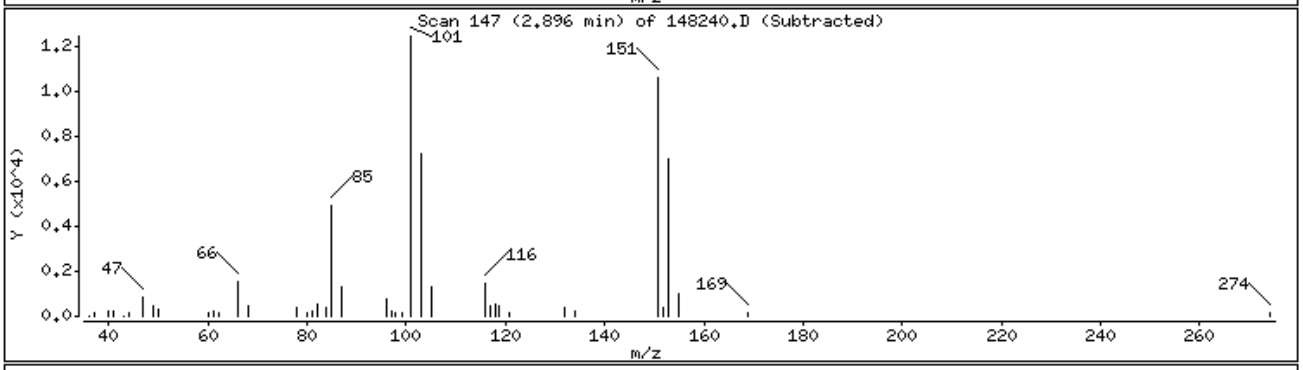
Sample Info: QCMRL

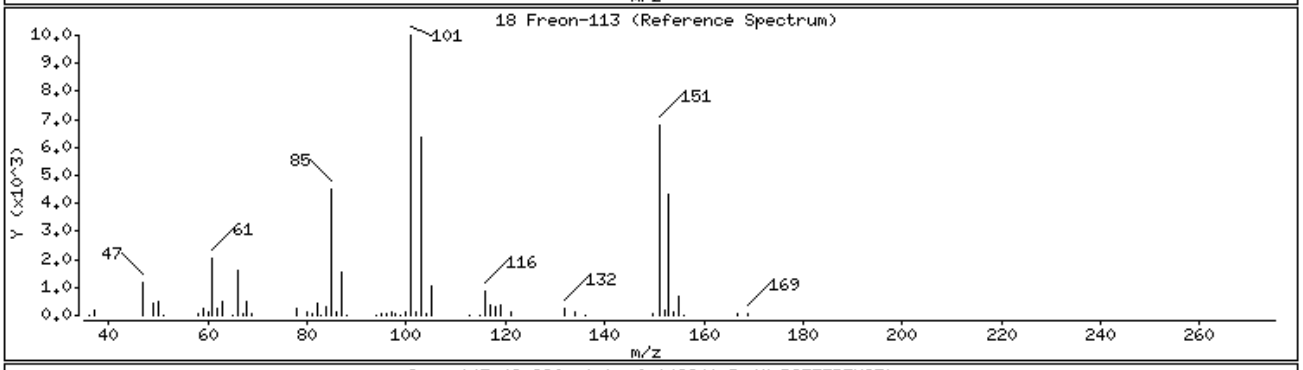
Purge Volume: 5.0 Operator: 2807

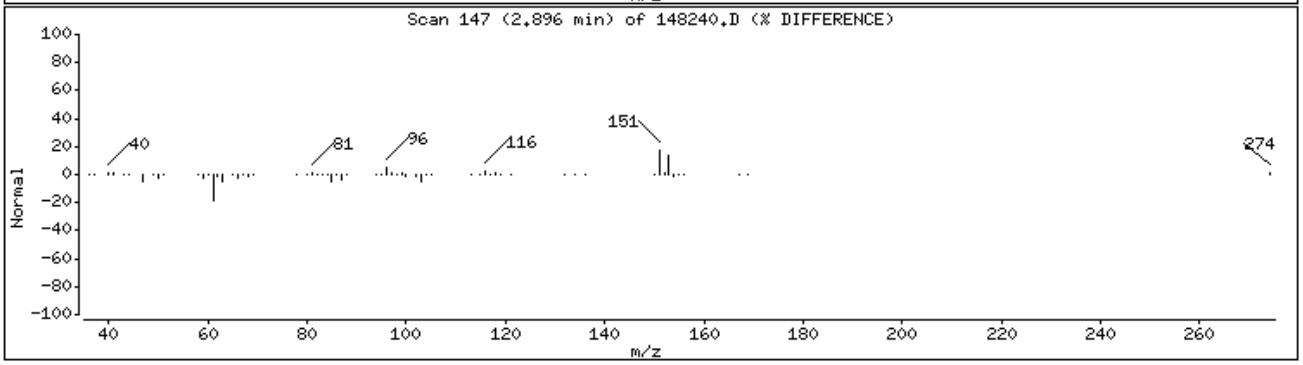
Column phase: DB624 Column diameter: 0.18

18 Freon-113 Concentration: 6.325 UG/KG









Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

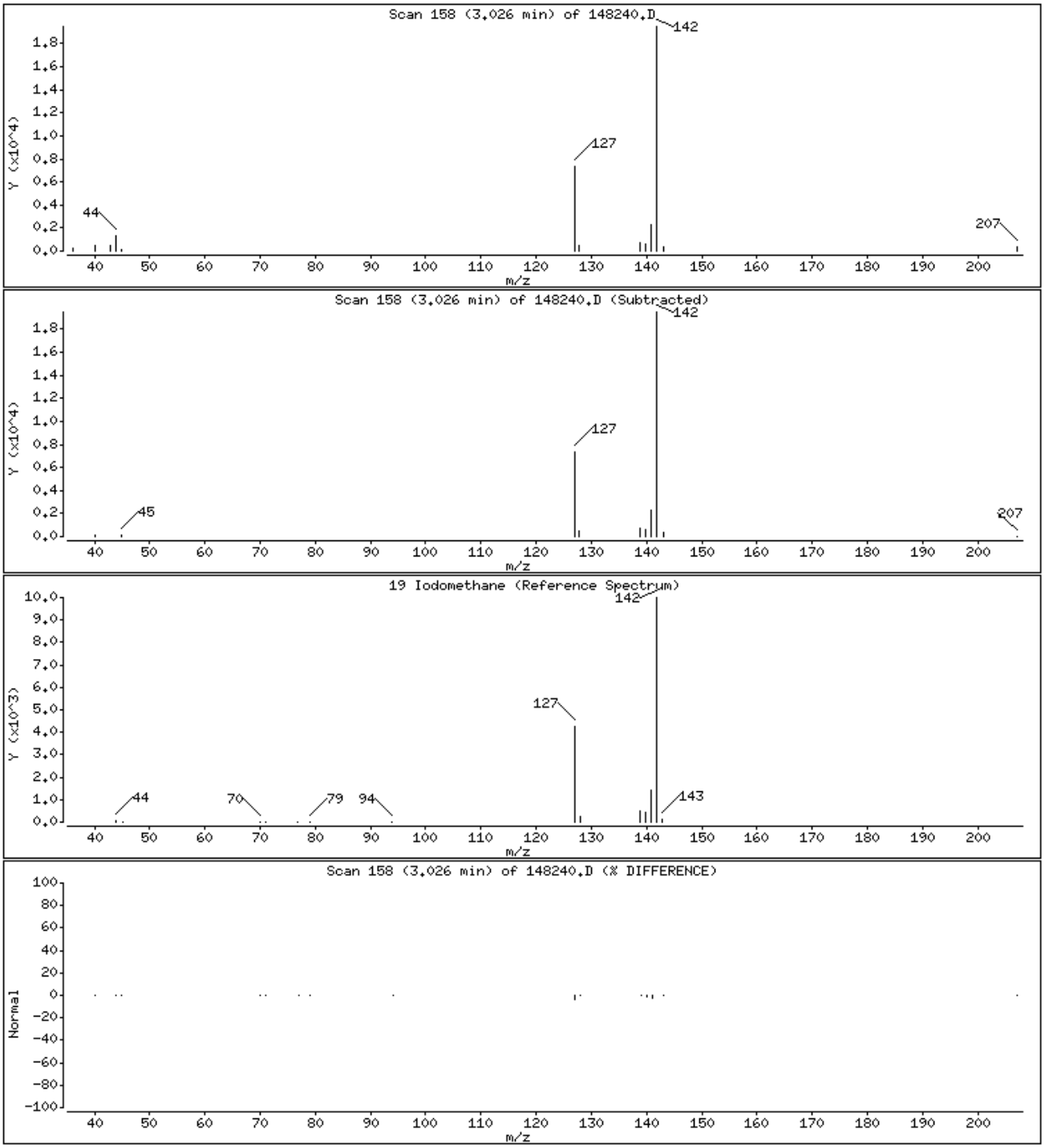
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

19 Iodomethane Concentration: 5.904 UG/KG



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Date : 26-FEB-2010 21:17

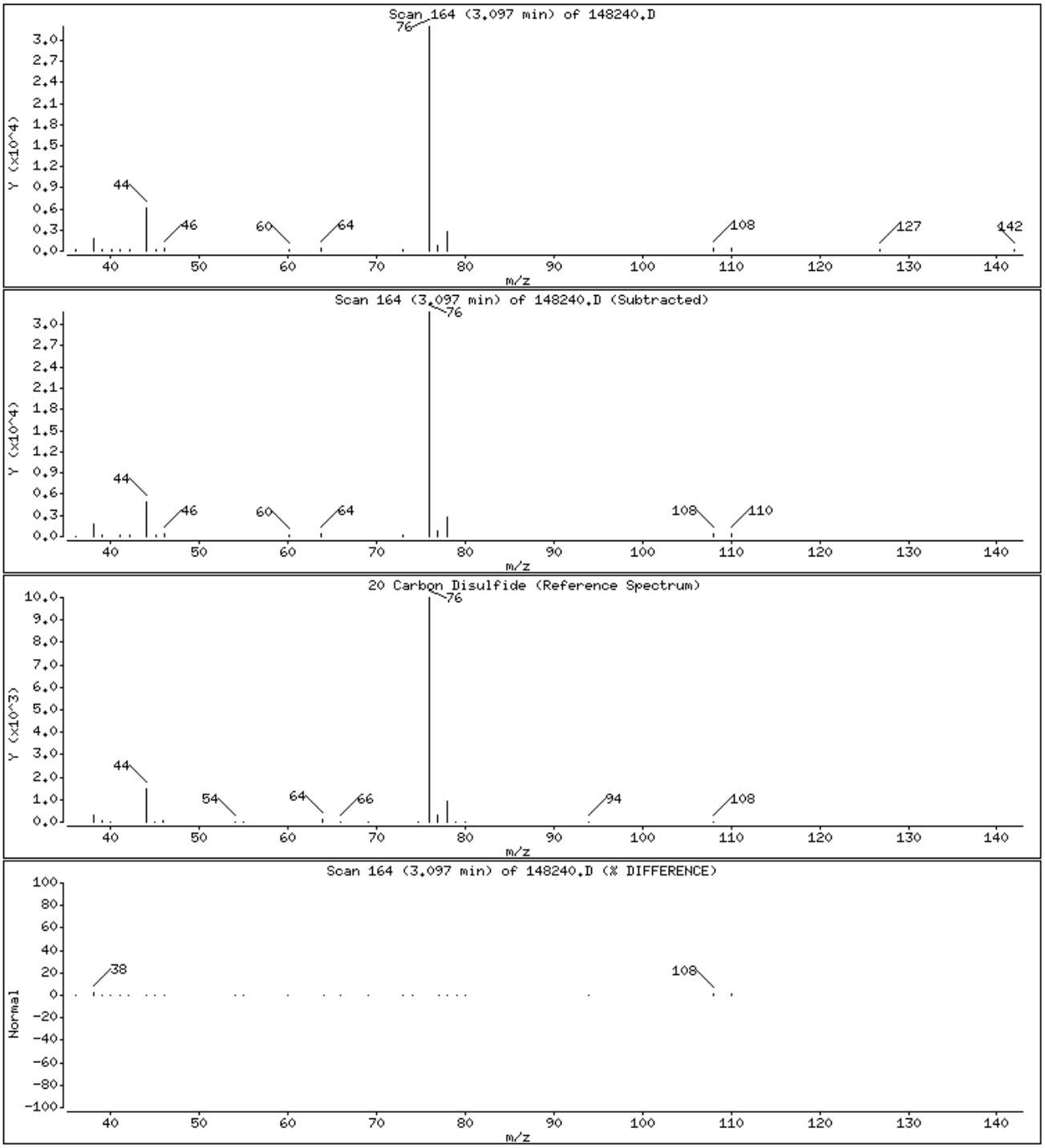
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

20 Carbon Disulfide Concentration: 5.276 UG/KG



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Date : 26-FEB-2010 21:17

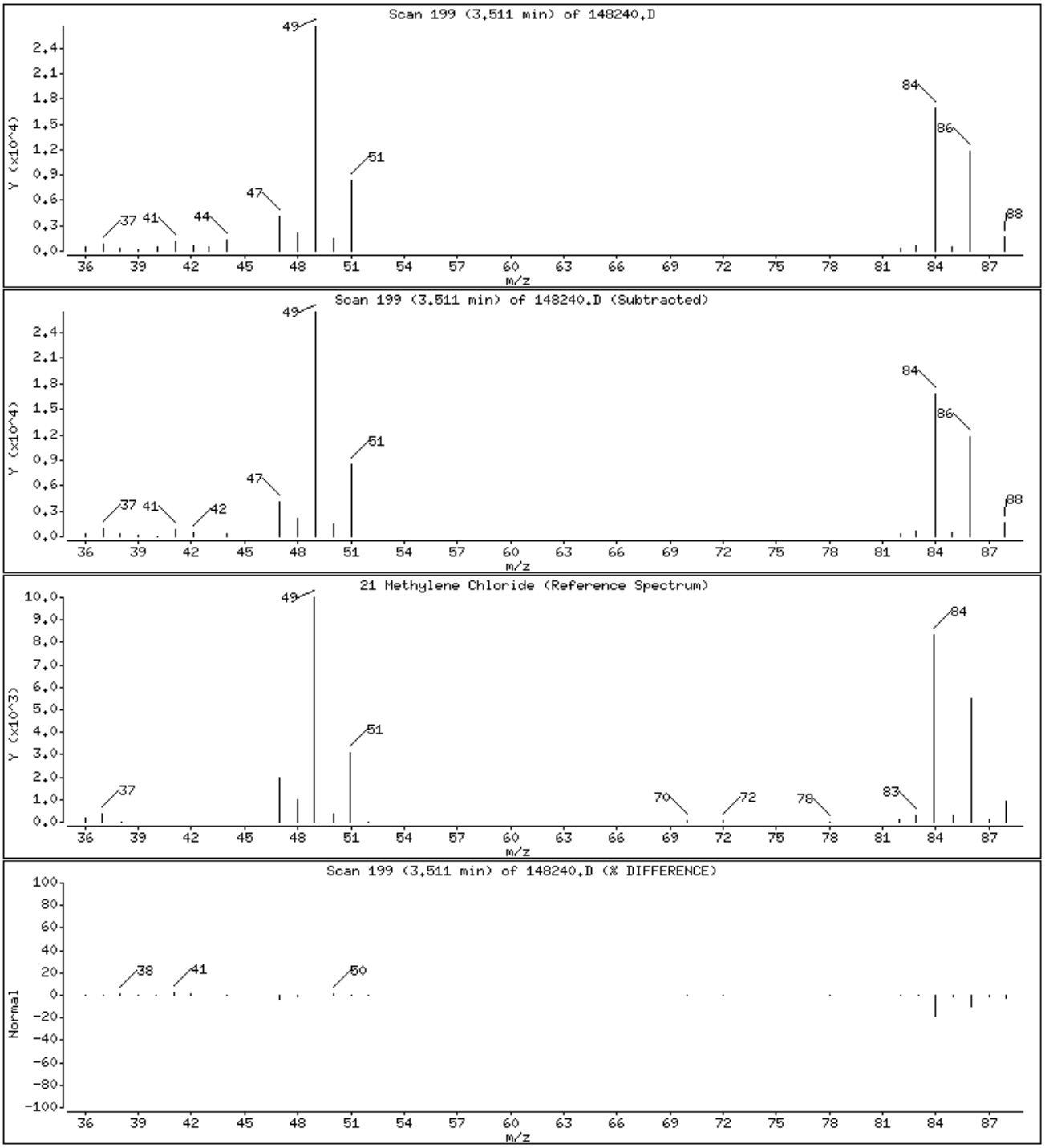
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

21 Methylene Chloride Concentration: 4.150 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

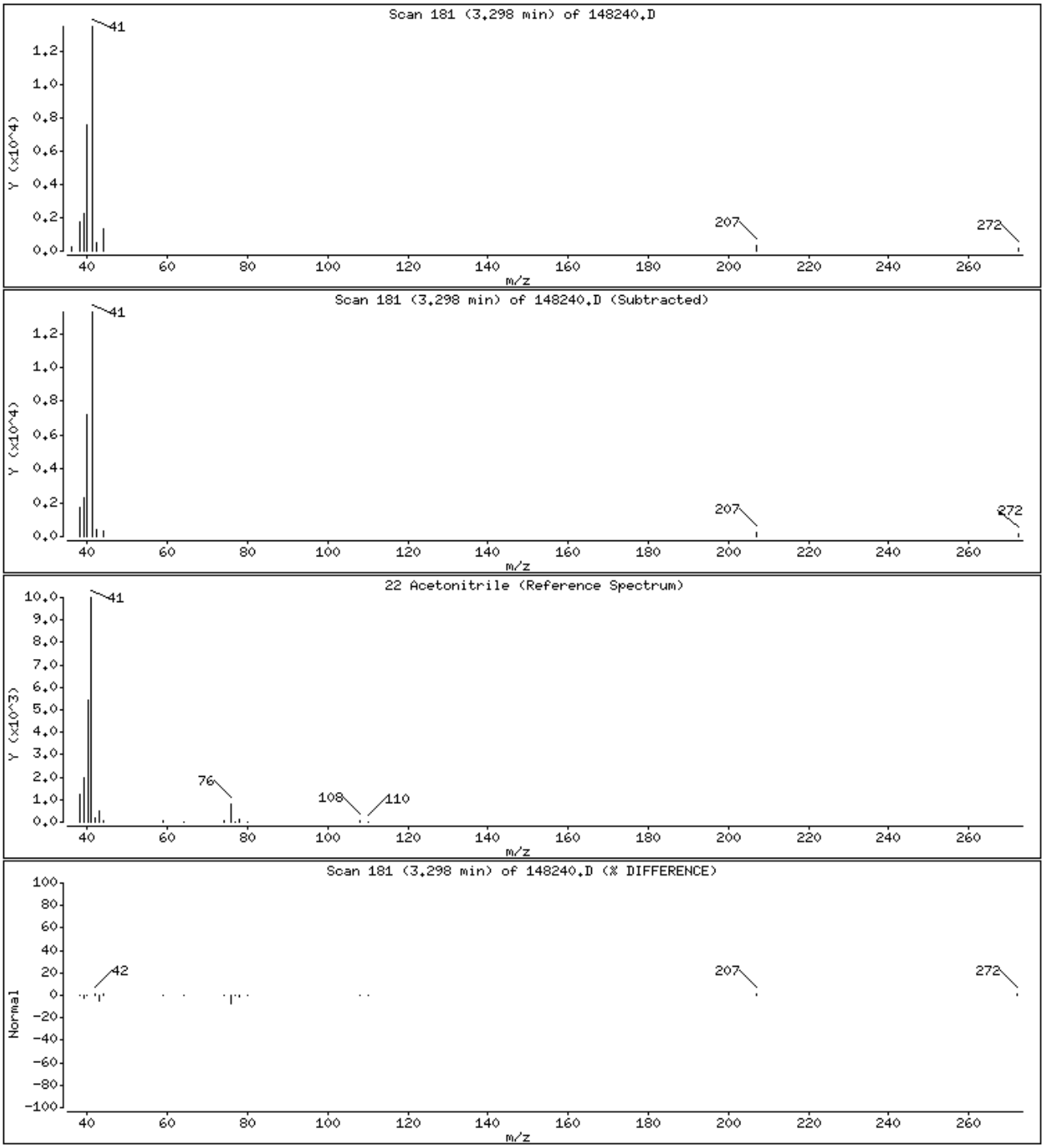
Operator: 2807

Column phase: DB624

Column diameter: 0.18

22 Acetonitrile

Concentration: 58.428 UG/KG



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Date : 26-FEB-2010 21:17

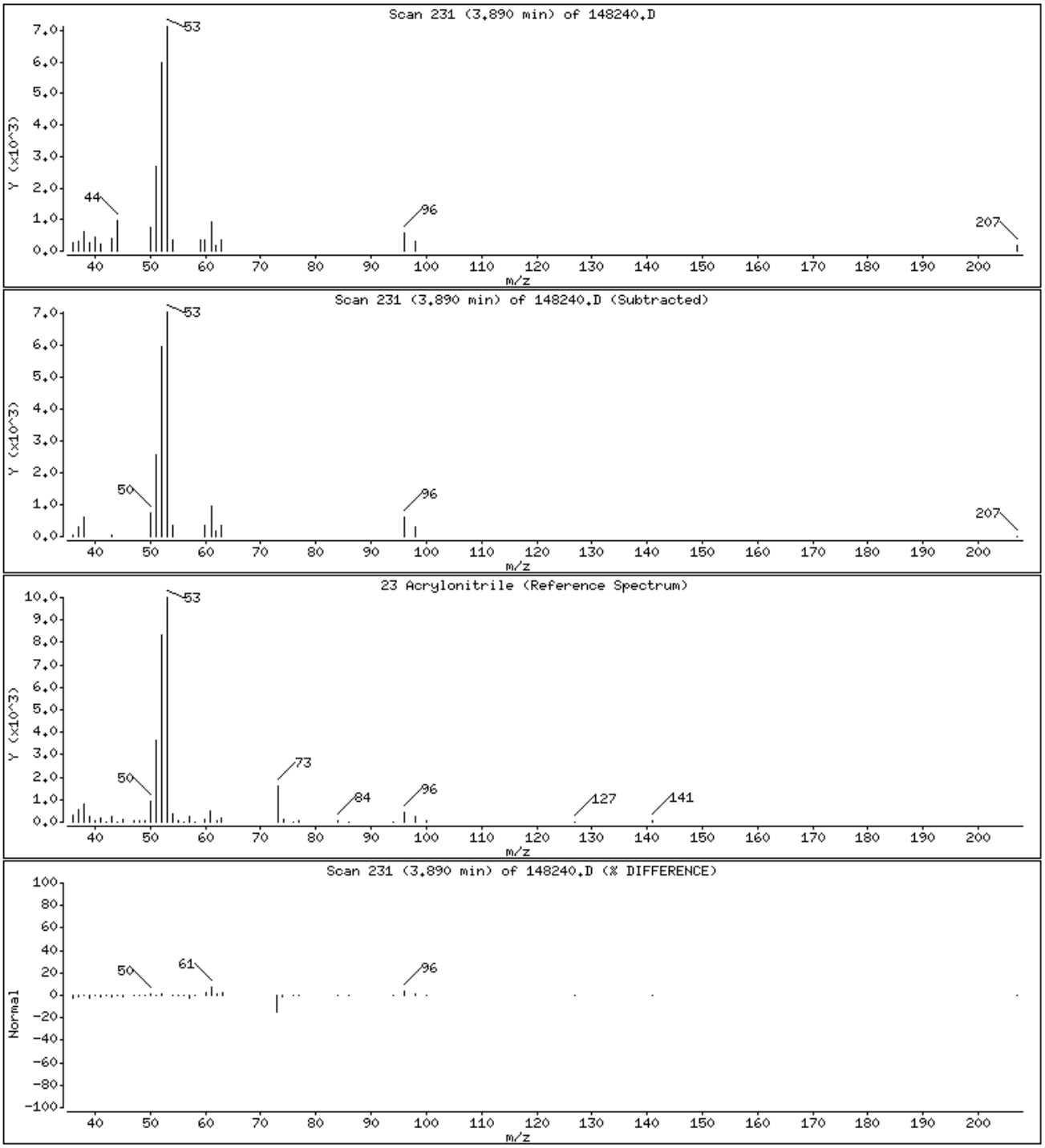
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

23 Acrylonitrile Concentration: 9.934 UG/KG



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Date : 26-FEB-2010 21:17

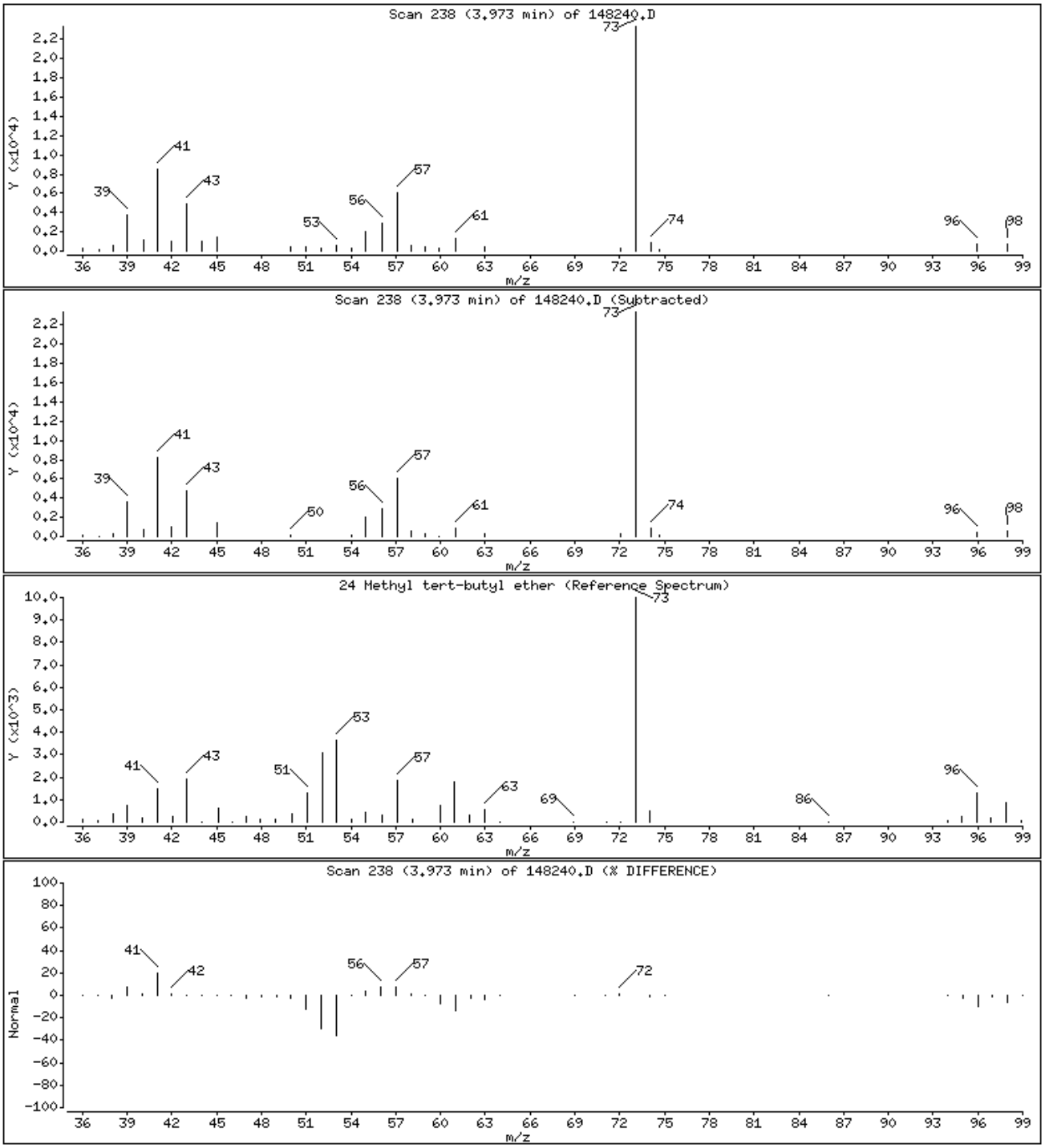
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

24 Methyl tert-butyl ether Concentration: 4.980 UG/KG



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Date : 26-FEB-2010 21:17

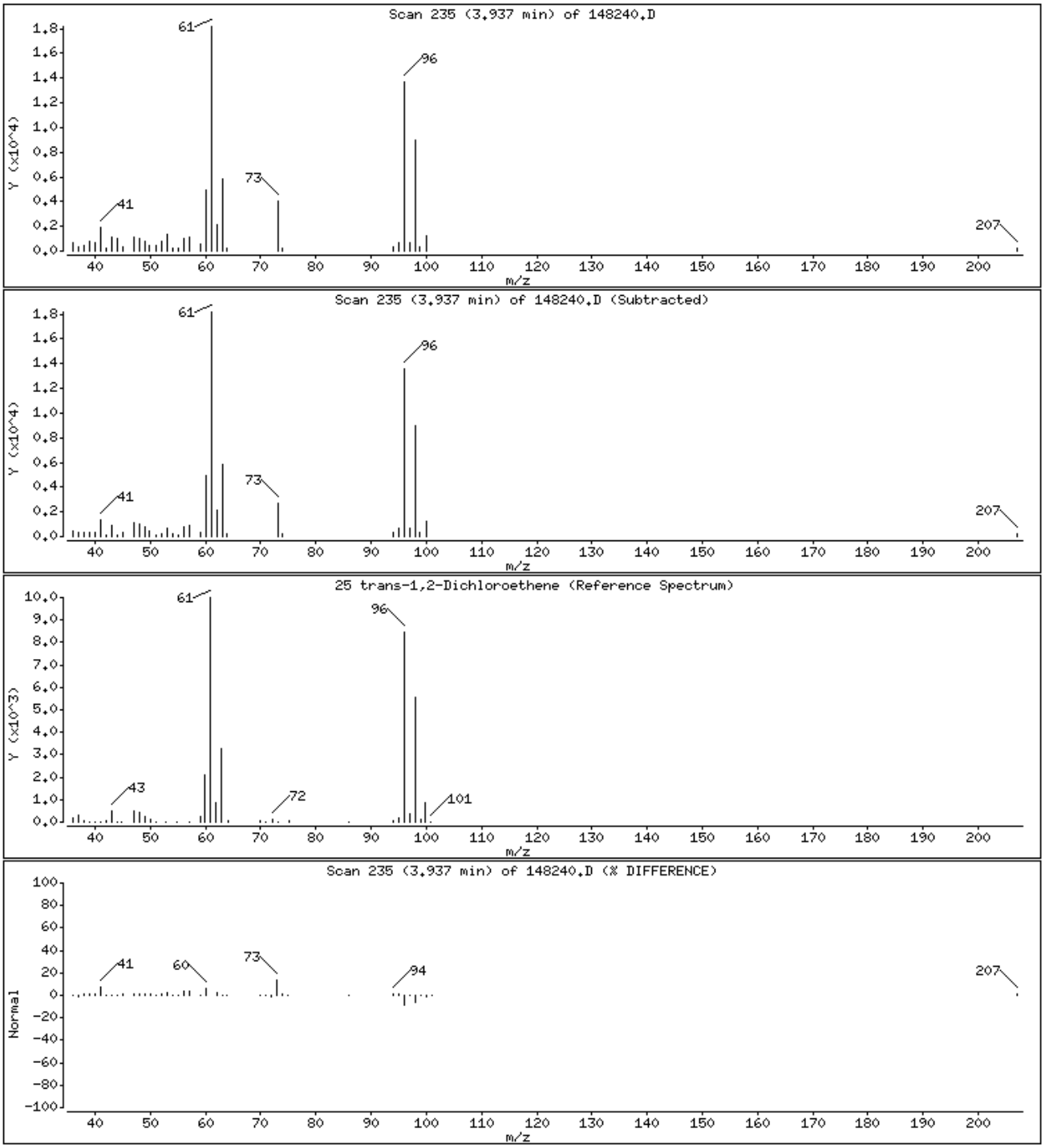
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

25 trans-1,2-Dichloroethene Concentration: 5.530 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

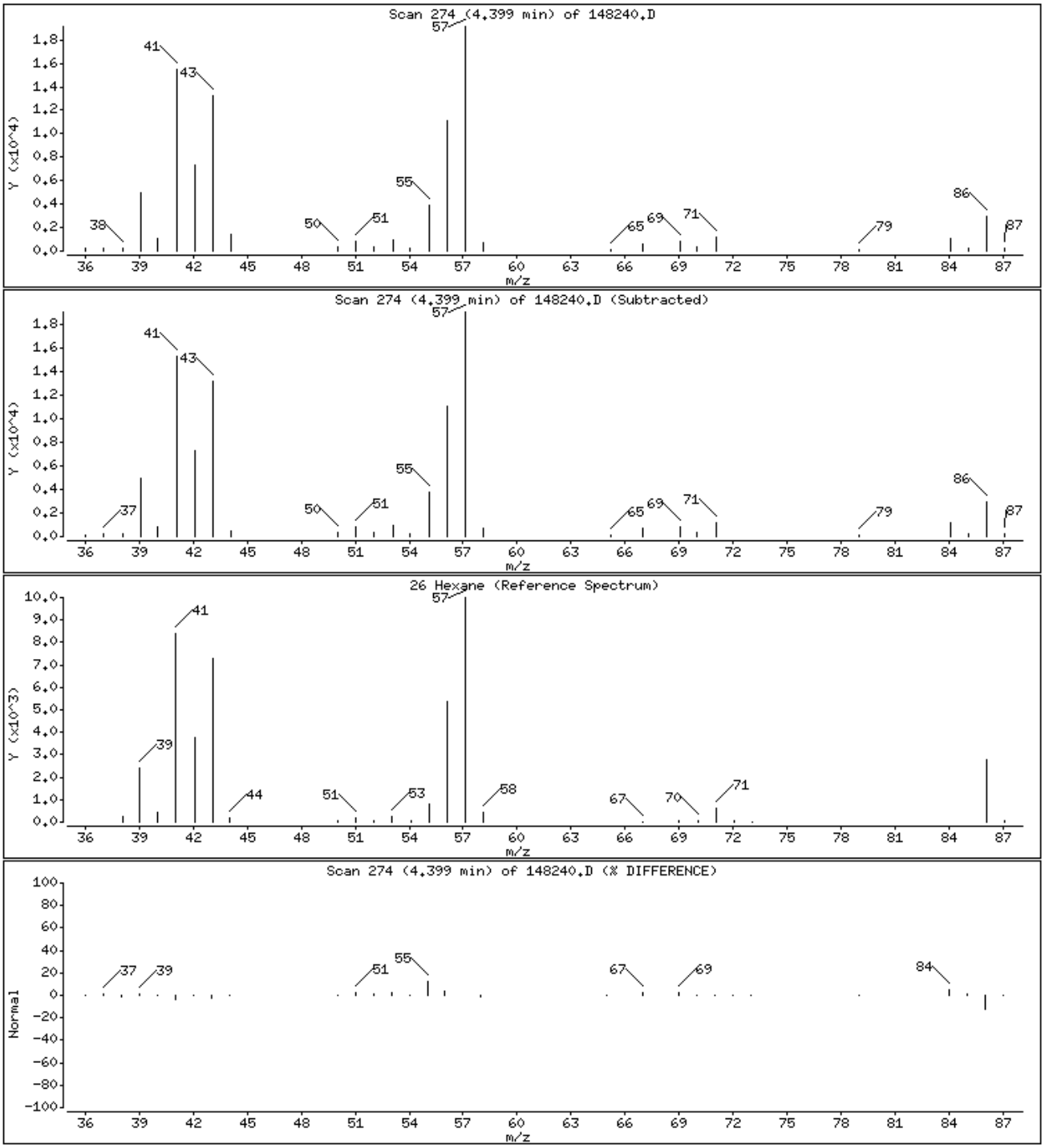
Operator: 2807

Column phase: DB624

Column diameter: 0.18

26 Hexane

Concentration: 5.240 UG/KG



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Date : 26-FEB-2010 21:17

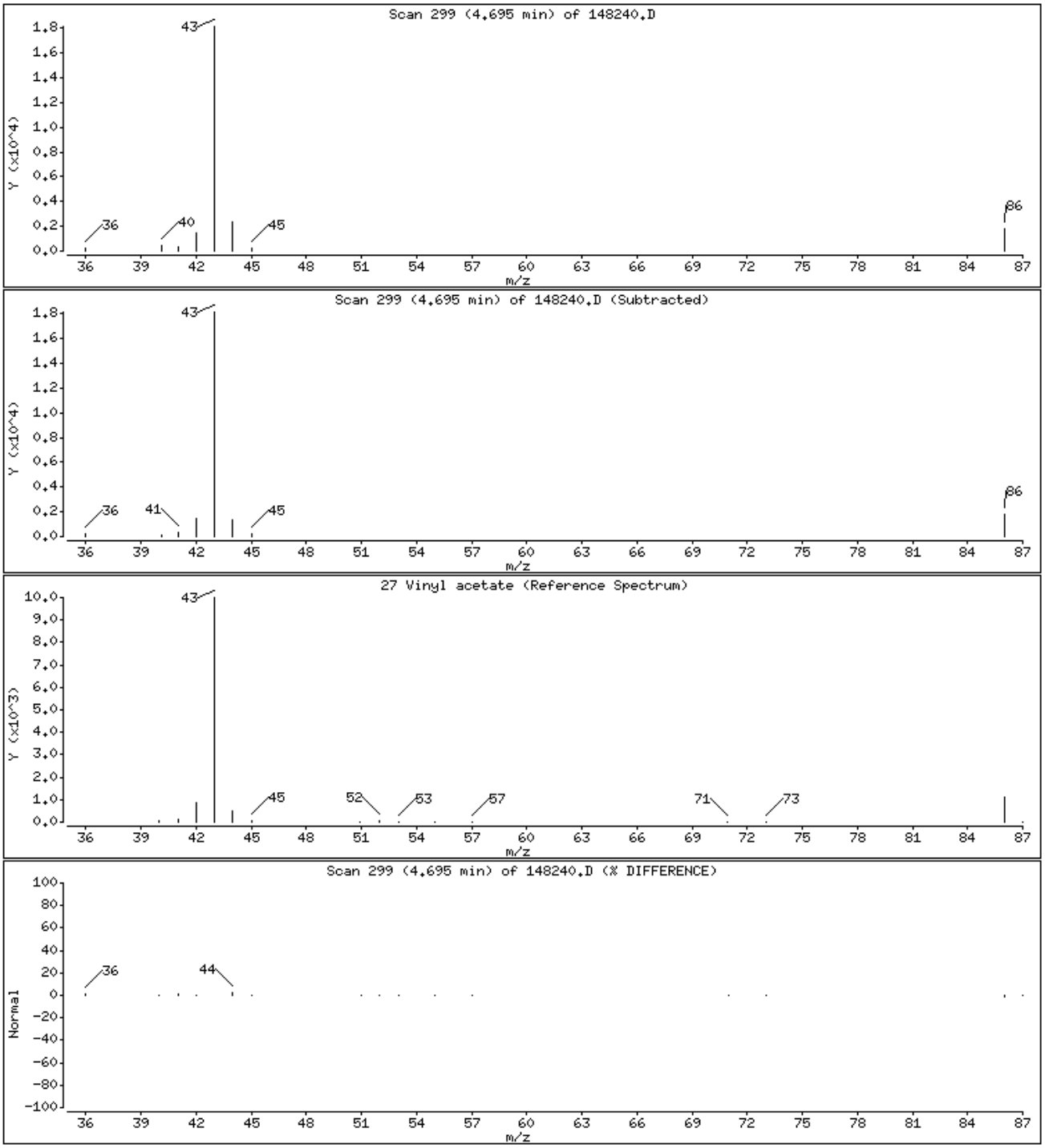
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

27 Vinyl acetate Concentration: 5.632 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

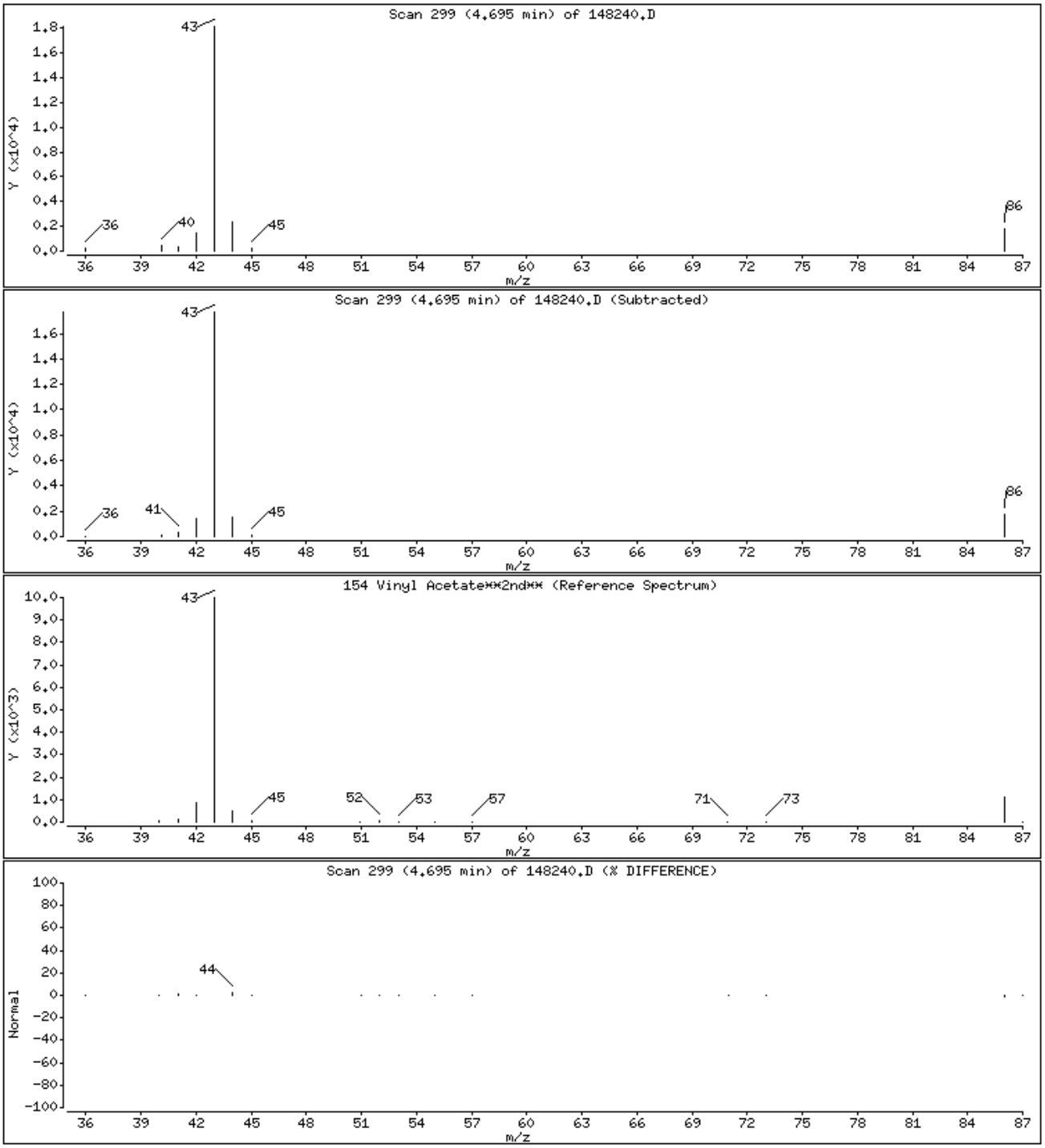
Operator: 2807

Column phase: DB624

Column diameter: 0.18

154 Vinyl Acetate**2nd**

Concentration: 5.398 UG/KG



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Date : 26-FEB-2010 21:17

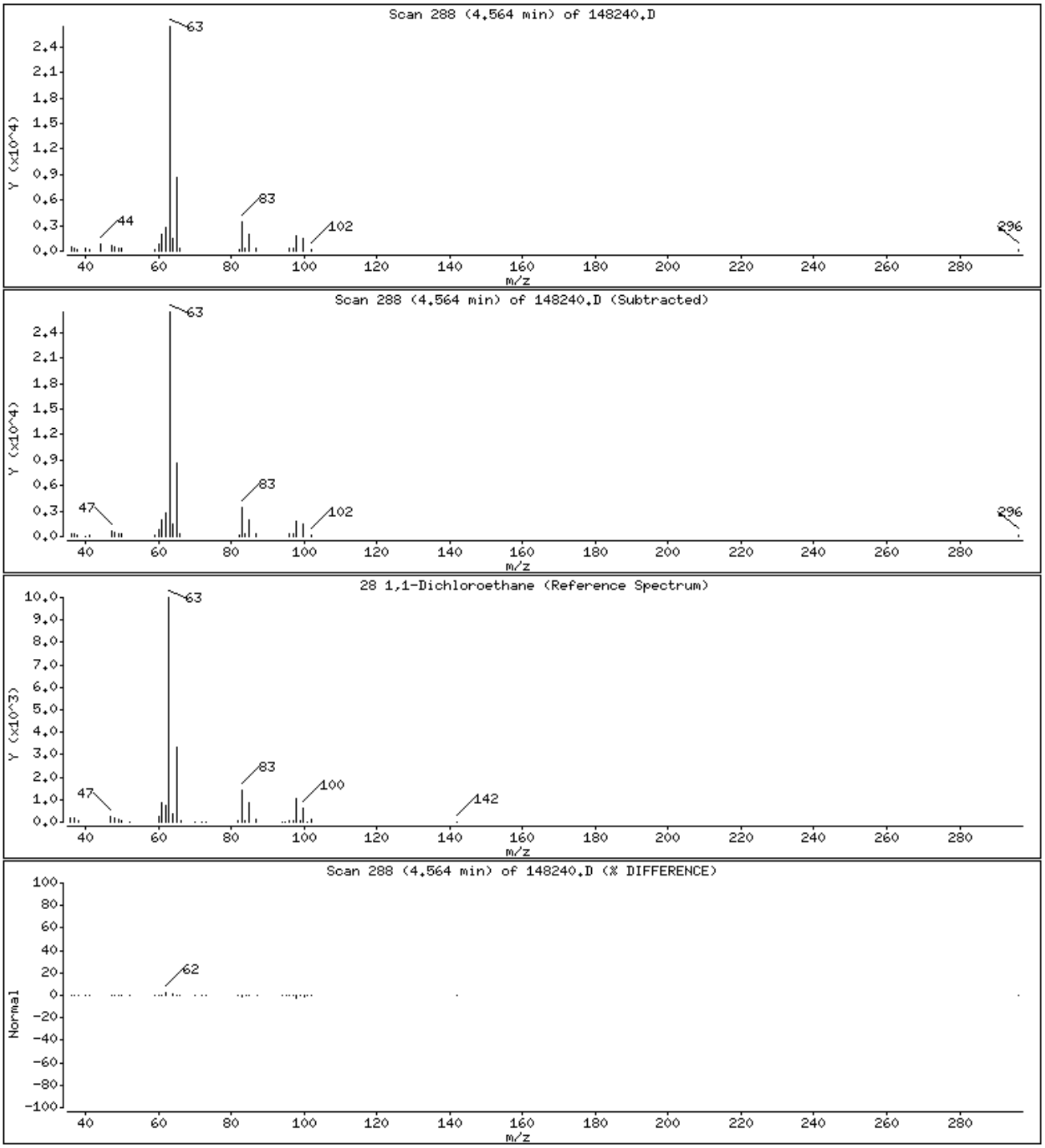
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

28 1,1-Dichloroethane Concentration: 5.373 UG/KG



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Date : 26-FEB-2010 21:17

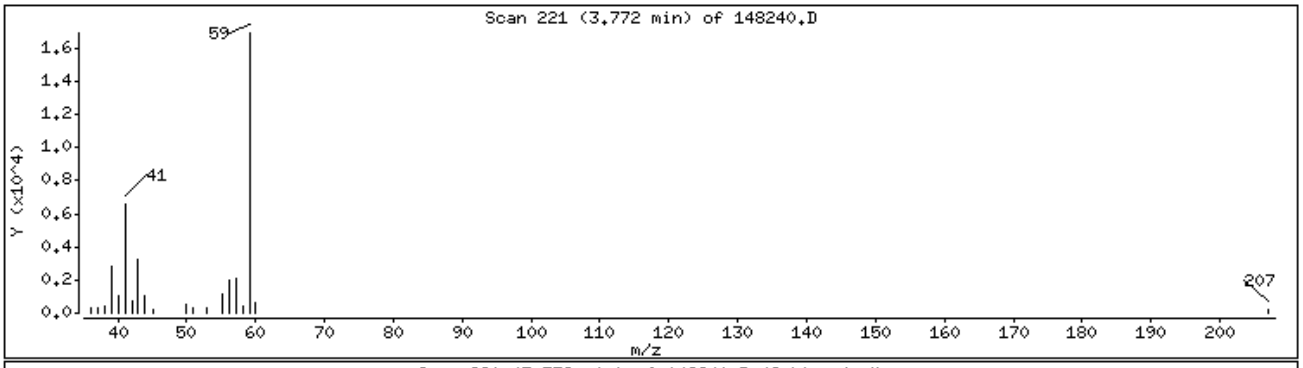
Client ID: Instrument: a3ux14.i

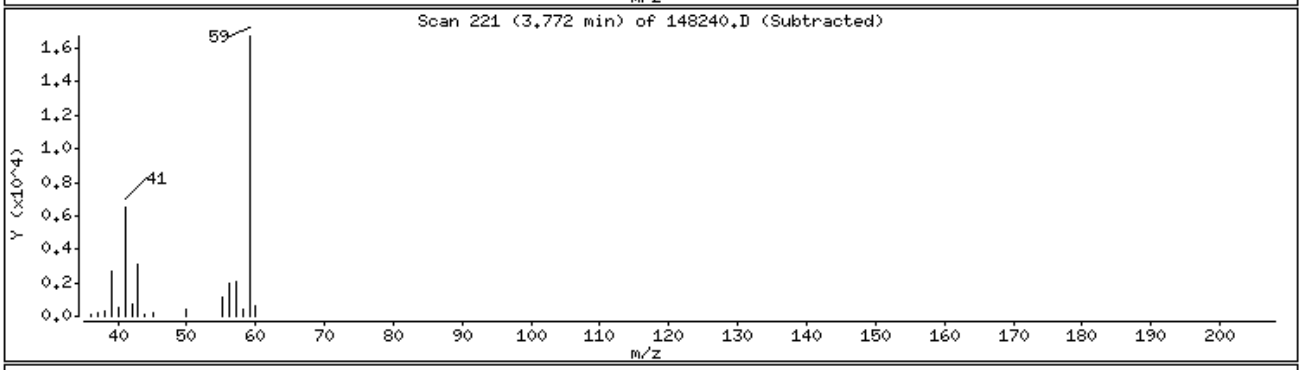
Sample Info: QCMRL

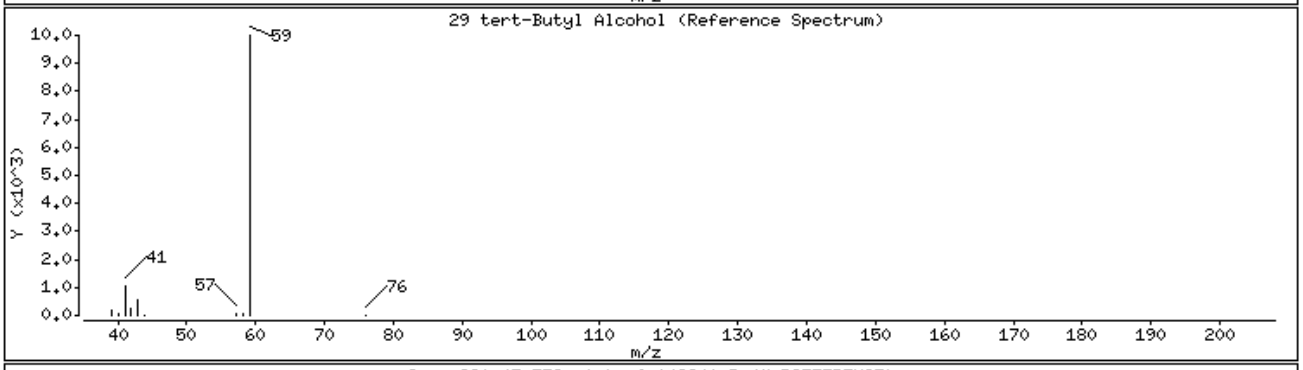
Purge Volume: 5.0 Operator: 2807

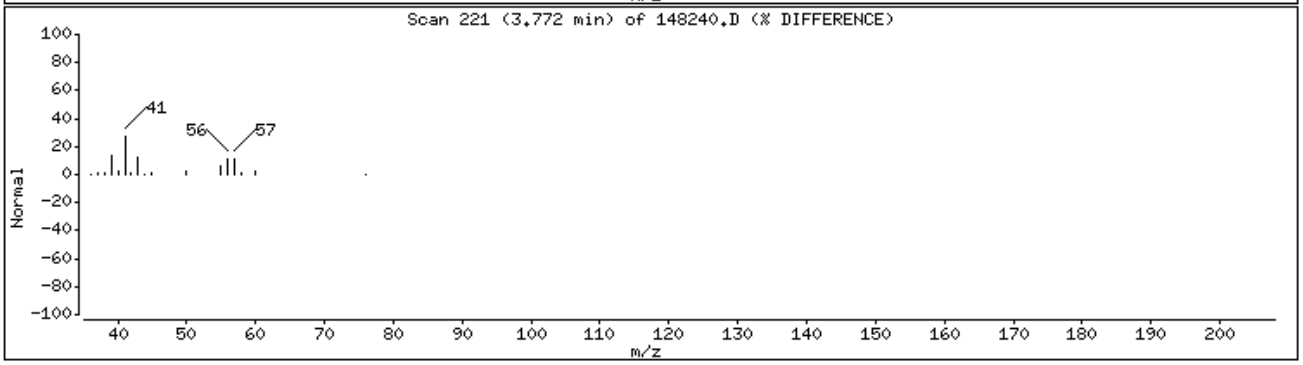
Column phase: DB624 Column diameter: 0.18

29 tert-Butyl Alcohol Concentration: 100.94 UG/KG









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Date : 26-FEB-2010 21:17

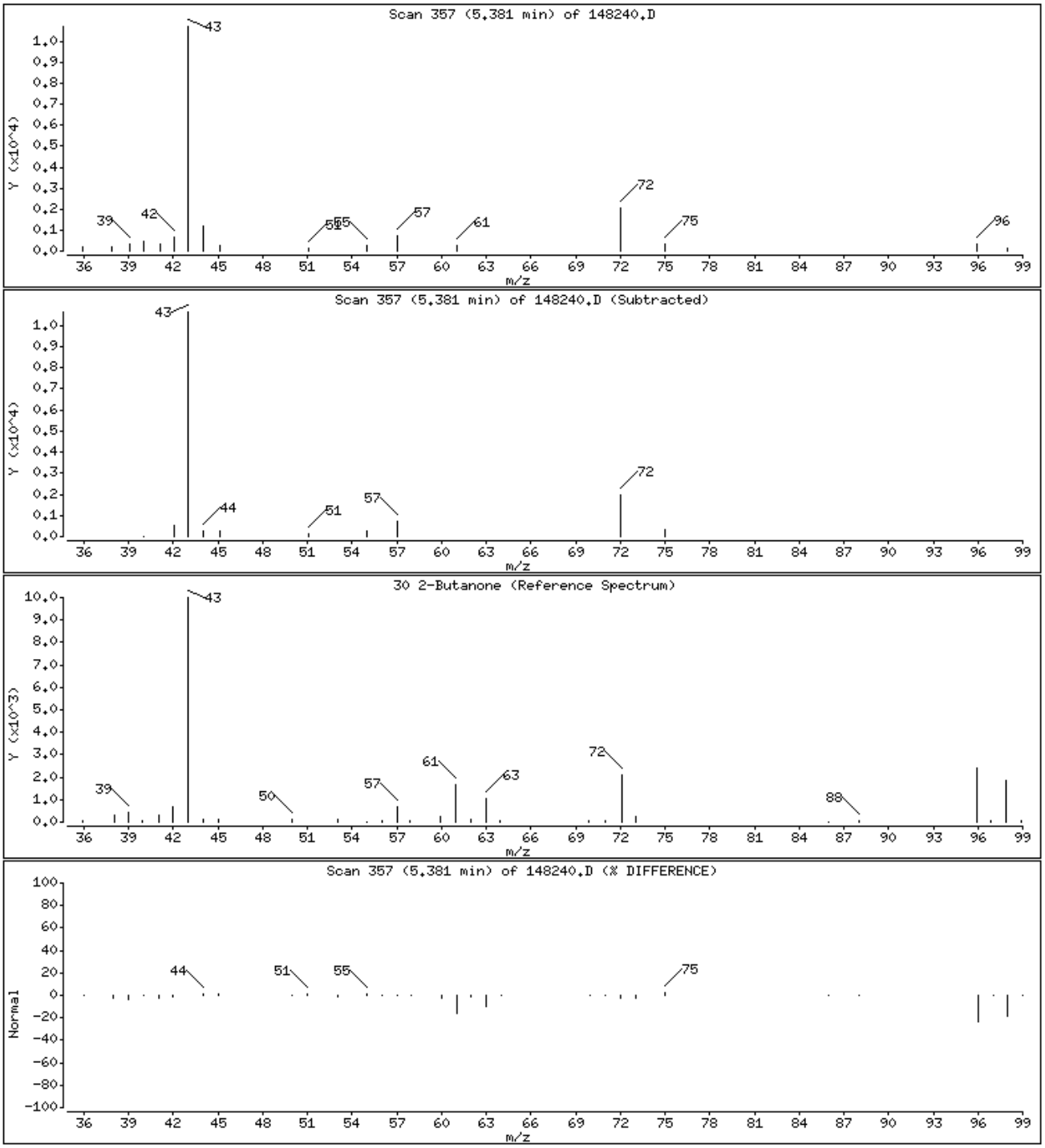
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

30 2-Butanone Concentration: 8.750 UG/KG



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Date : 26-FEB-2010 21:17

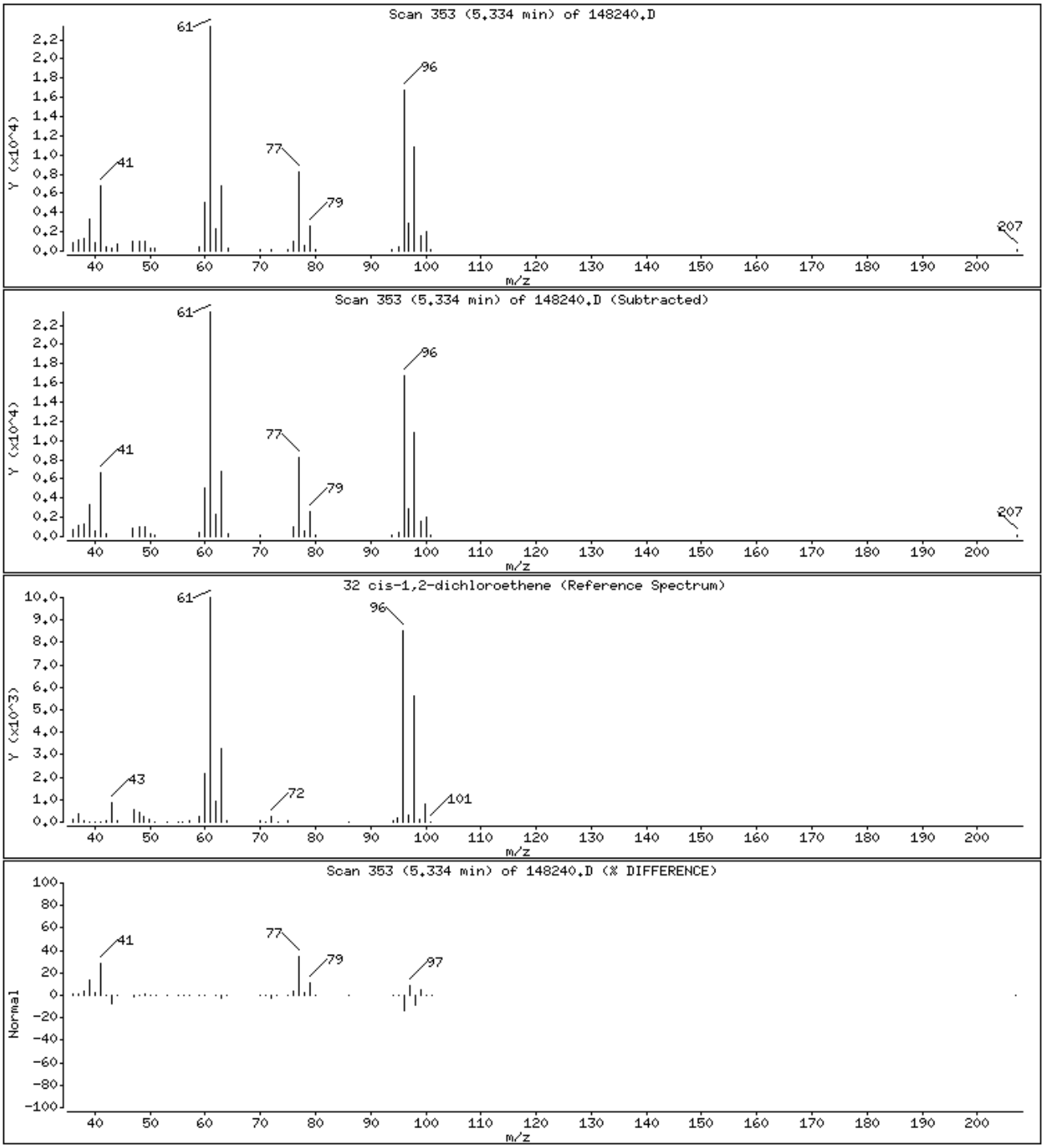
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

32 cis-1,2-dichloroethene Concentration: 5.100 UG/KG



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Date : 26-FEB-2010 21:17

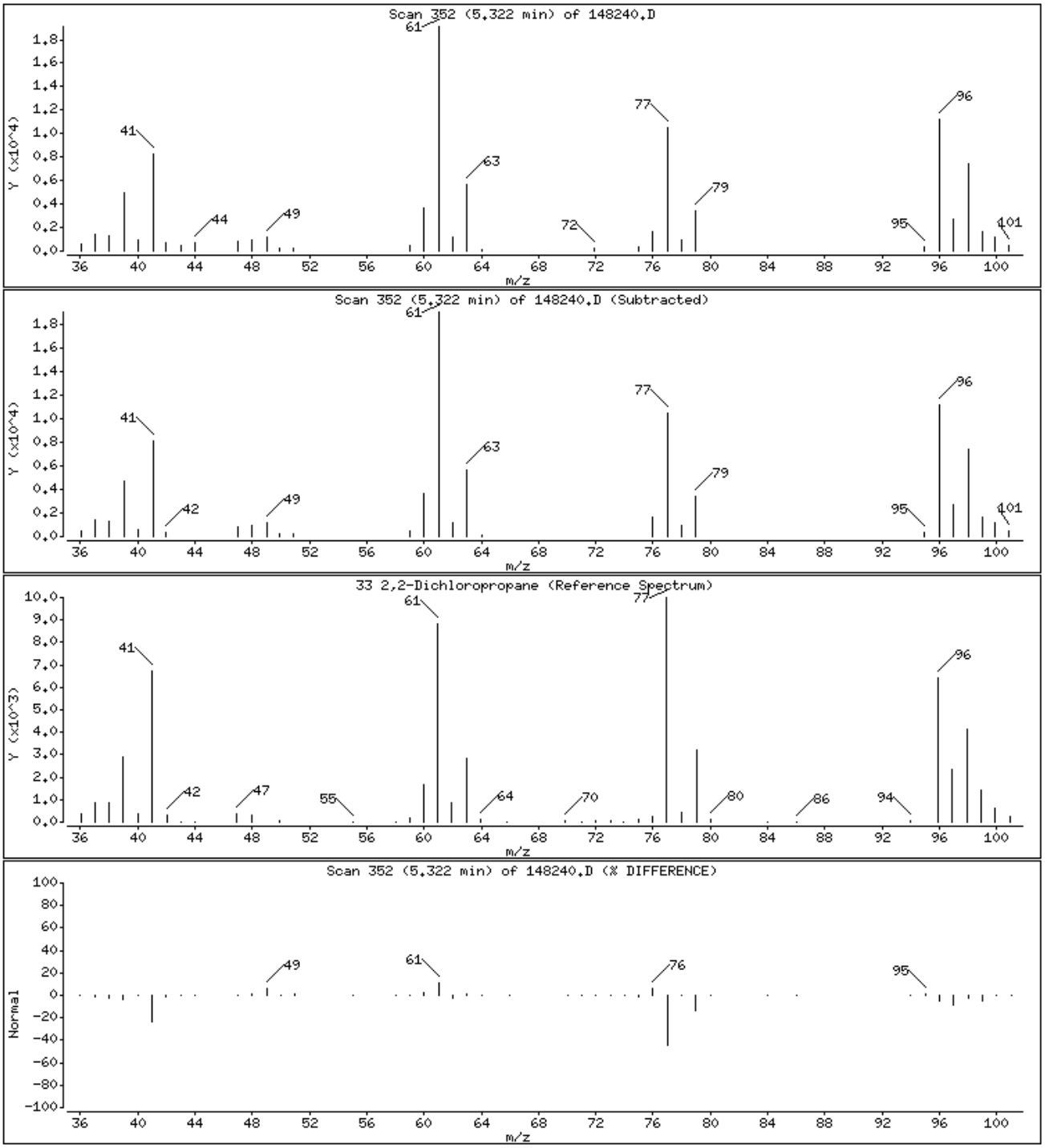
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

33 2,2-Dichloropropane Concentration: 5.300 UG/KG



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Date : 26-FEB-2010 21:17

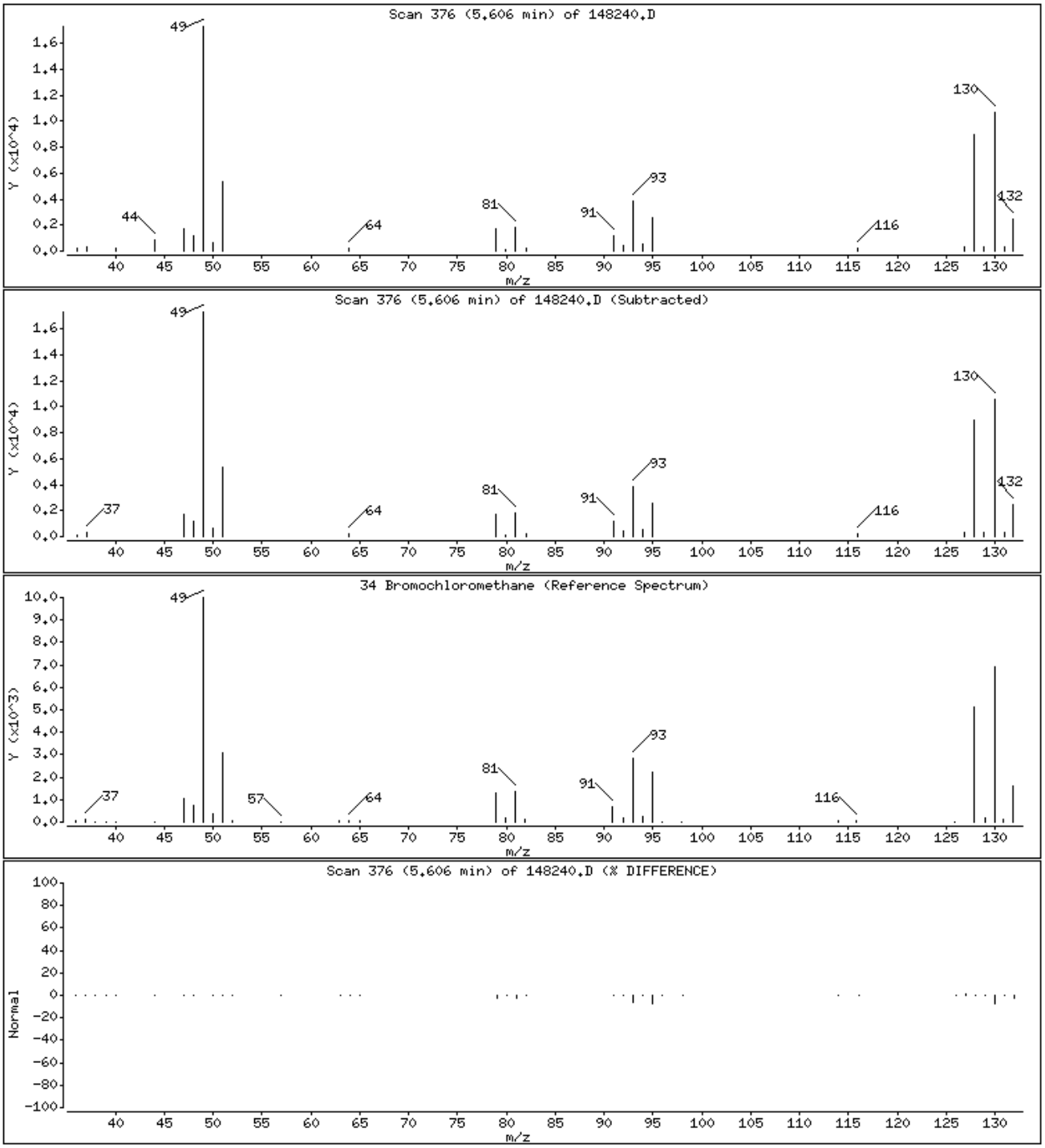
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

34 Bromochloromethane Concentration: 5.416 UG/KG



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Date : 26-FEB-2010 21:17

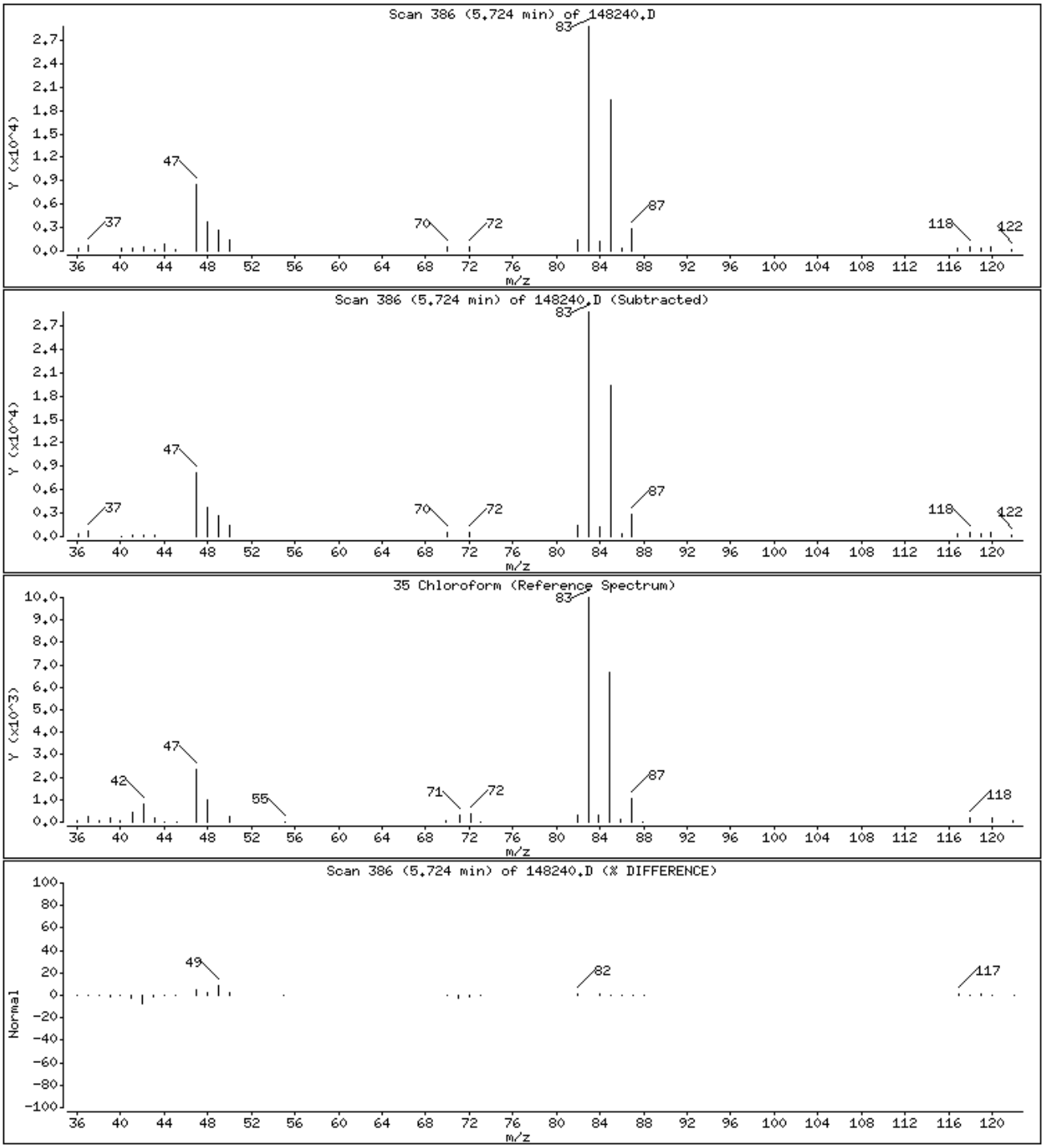
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

35 Chloroform Concentration: 5.420 UG/KG



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Date : 26-FEB-2010 21:17

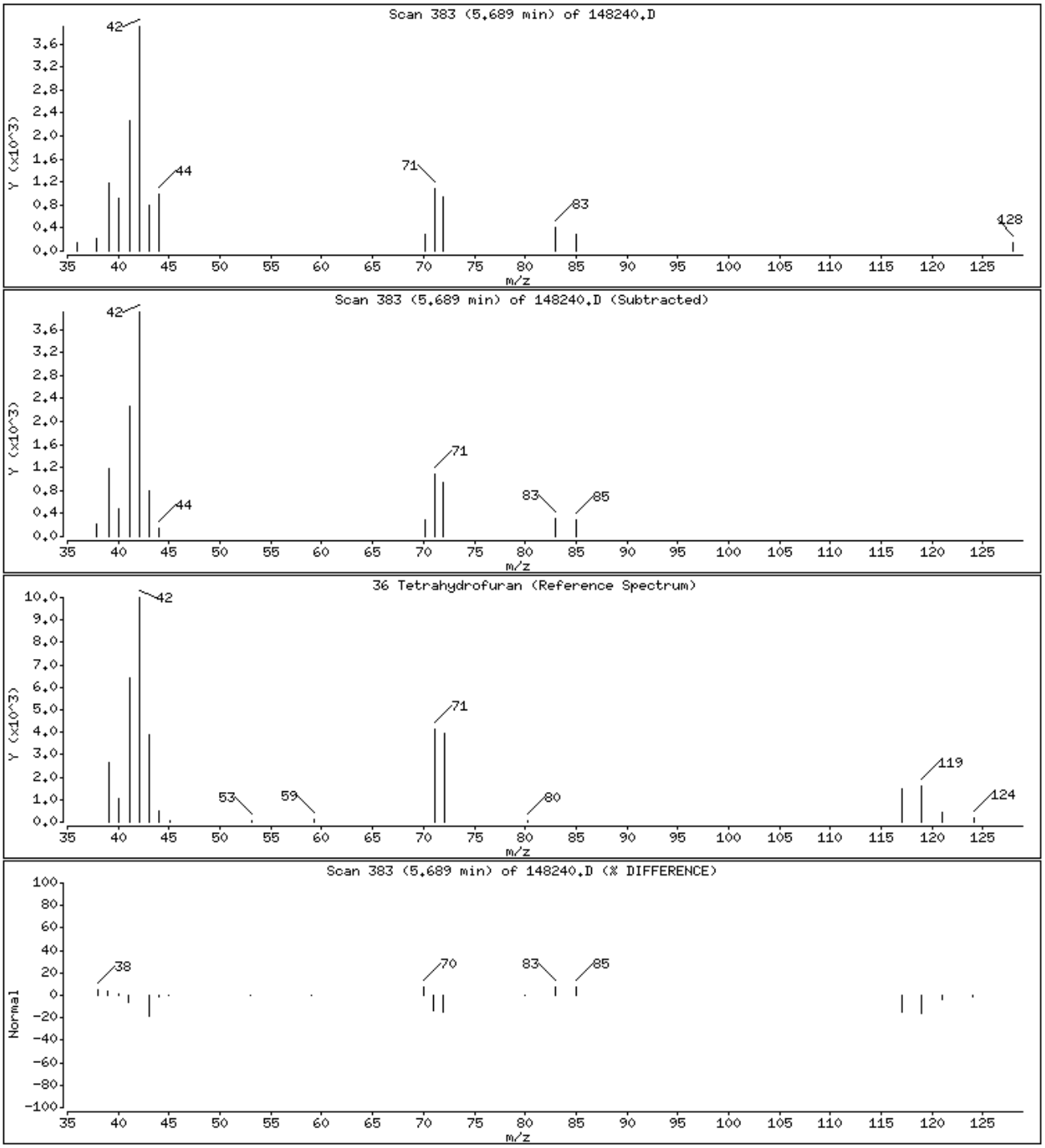
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

36 Tetrahydrofuran Concentration: 4.290 UG/KG



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Date : 26-FEB-2010 21:17

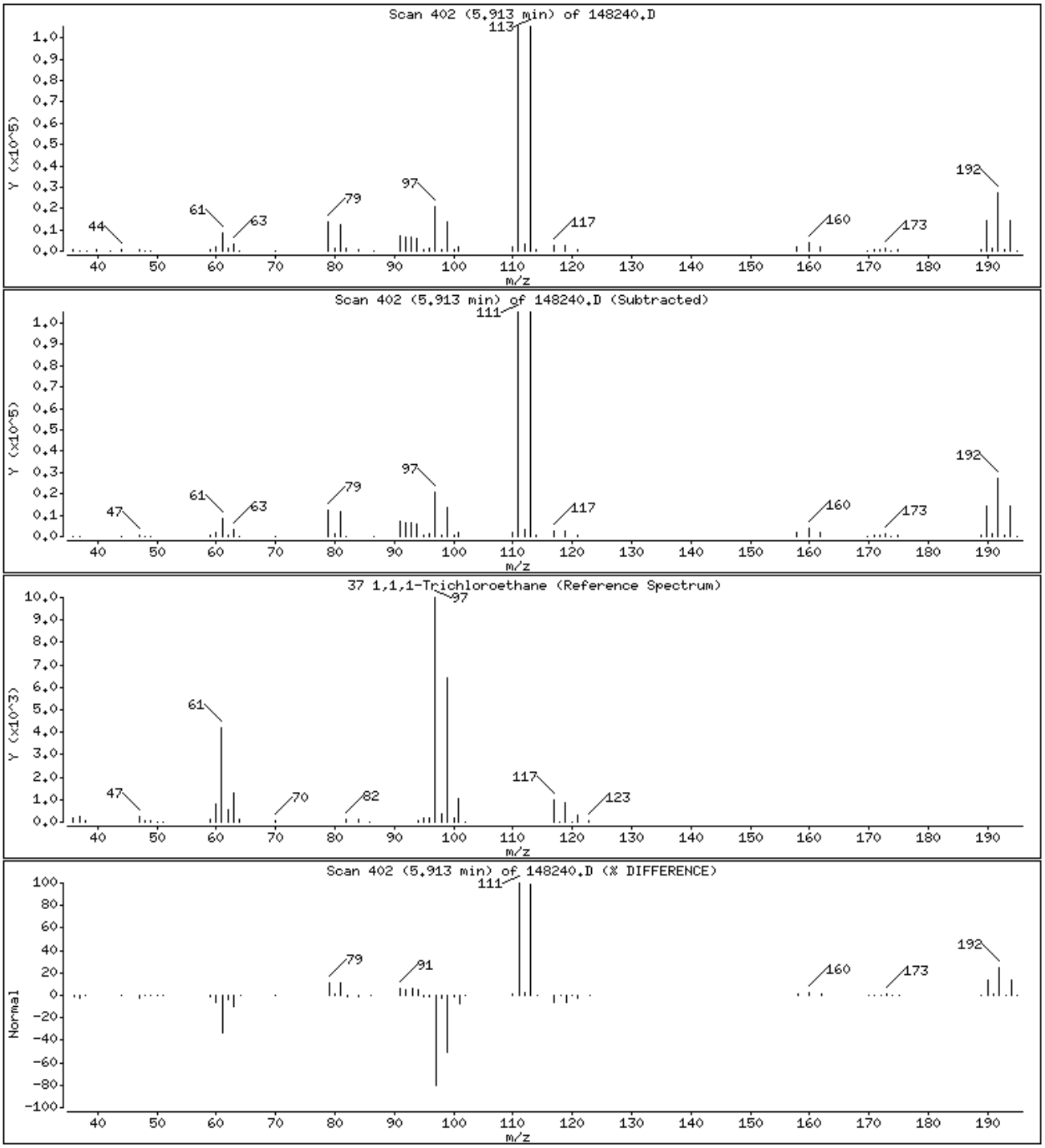
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

37 1,1,1-Trichloroethane Concentration: 6.088 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

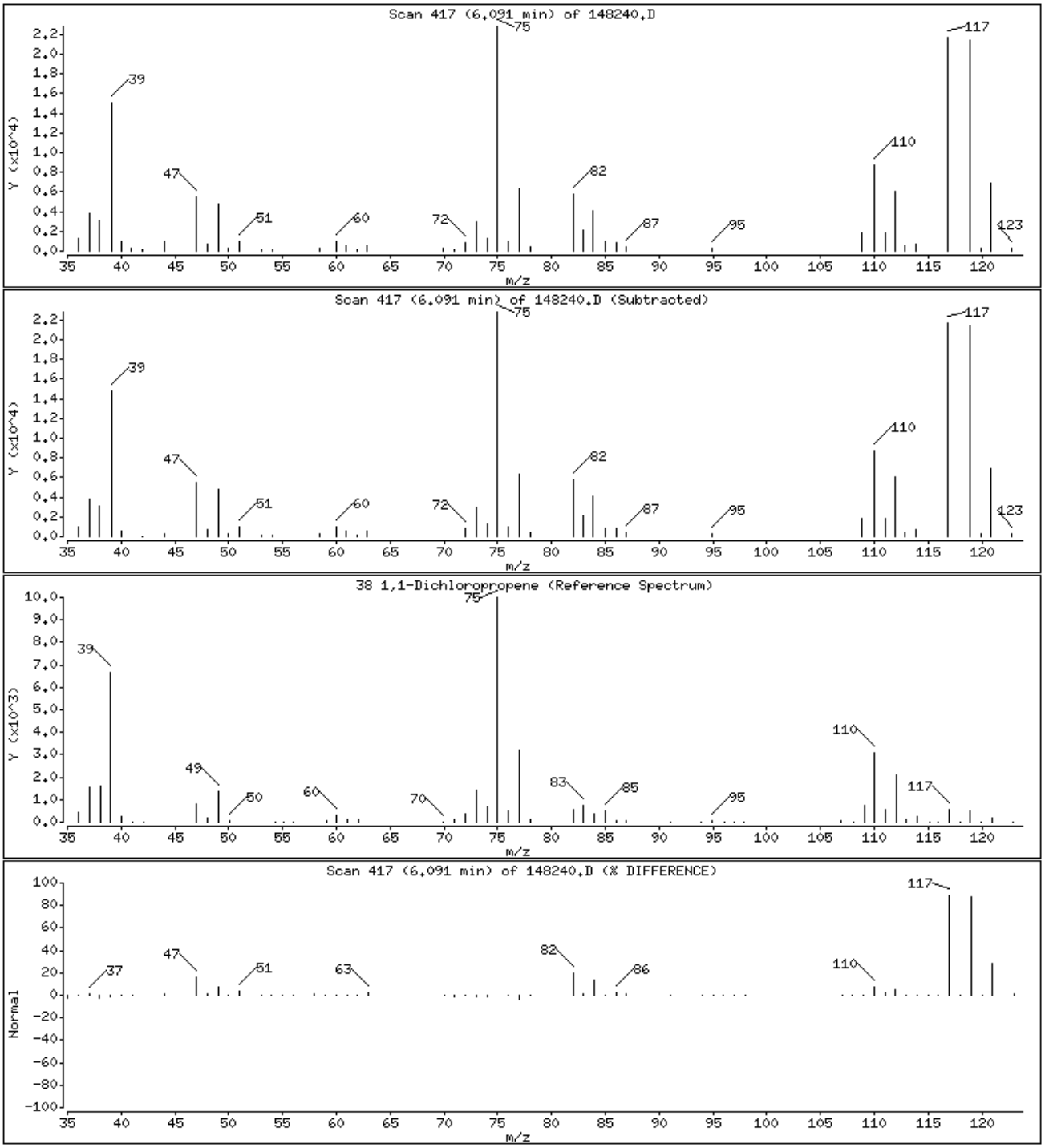
Operator: 2807

Column phase: DB624

Column diameter: 0.18

38 1,1-Dichloropropene

Concentration: 5.291 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

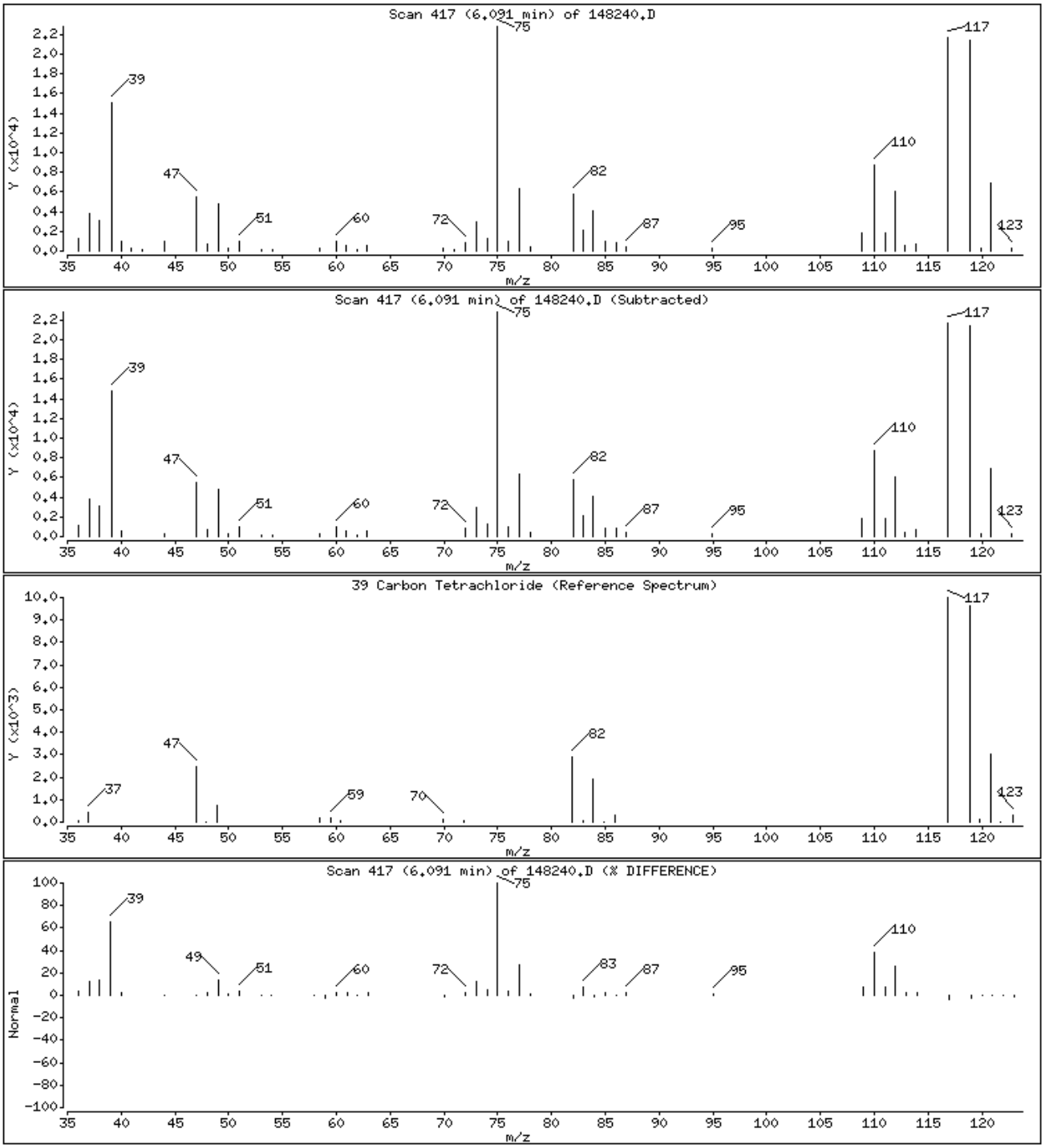
Operator: 2807

Column phase: DB624

Column diameter: 0.18

39 Carbon Tetrachloride

Concentration: 6.722 UG/KG



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Date : 26-FEB-2010 21:17

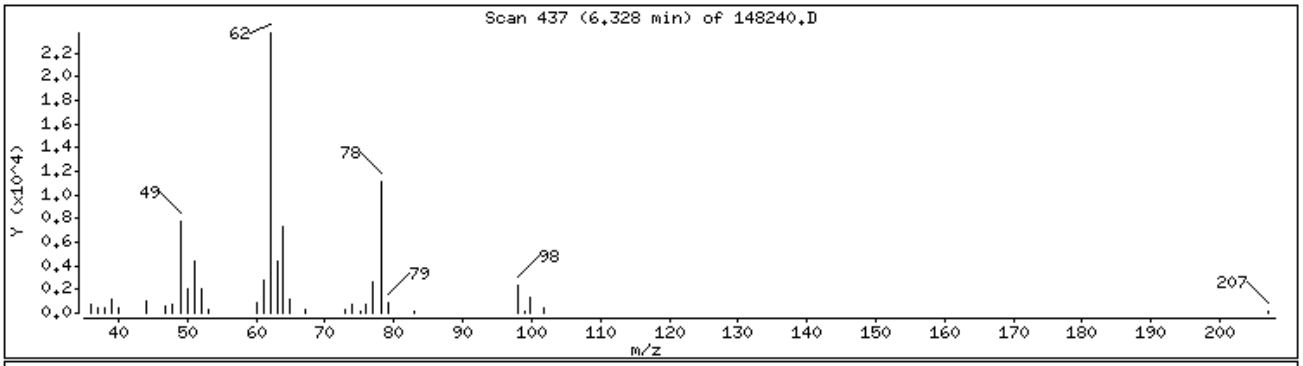
Client ID: Instrument: a3ux14.i

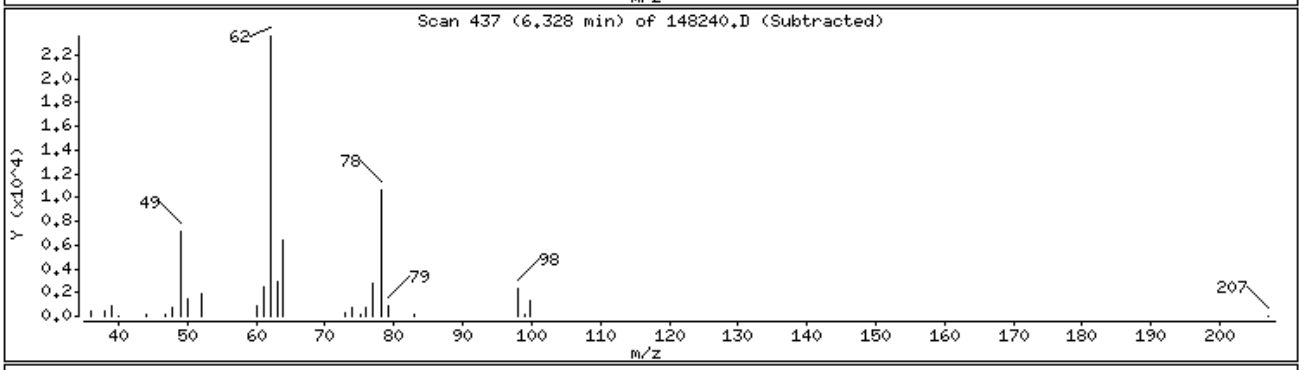
Sample Info: QCMRL

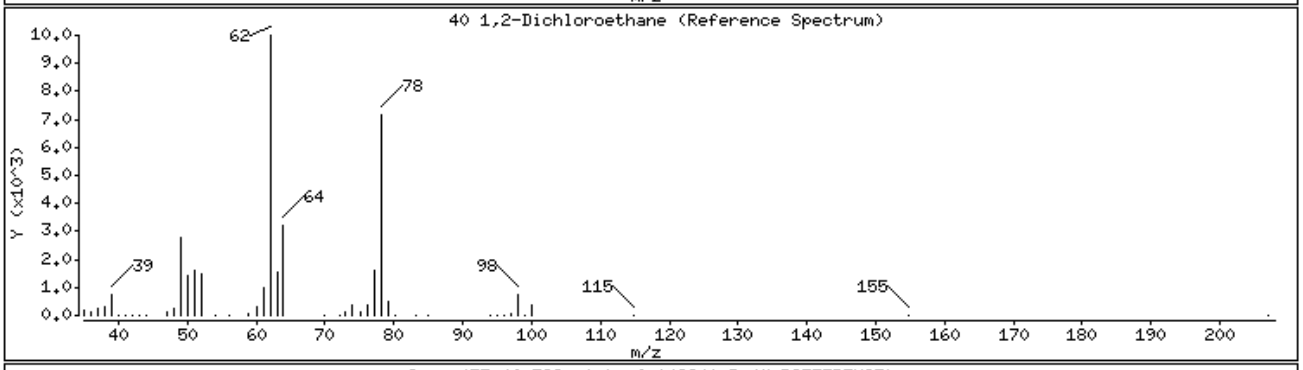
Purge Volume: 5.0 Operator: 2807

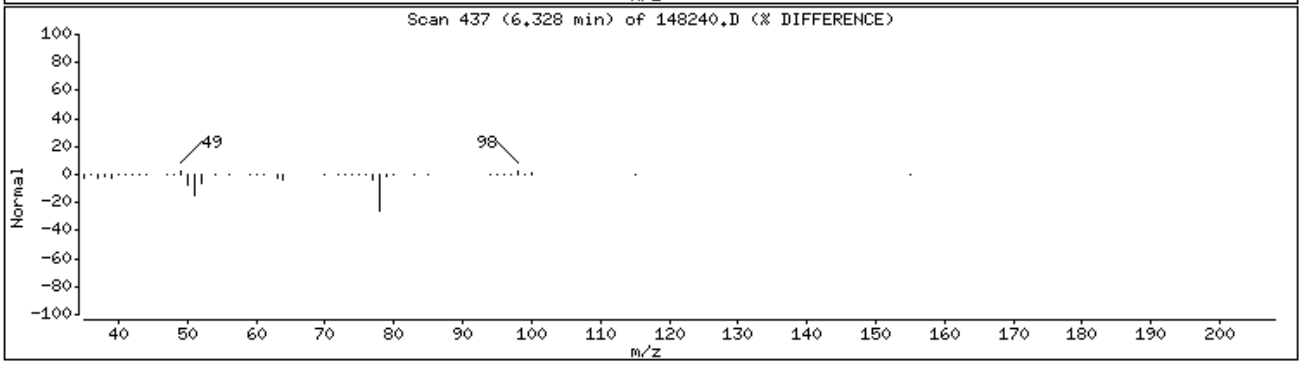
Column phase: DB624 Column diameter: 0.18

40 1,2-Dichloroethane Concentration: 5.496 UG/KG









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Date : 26-FEB-2010 21:17

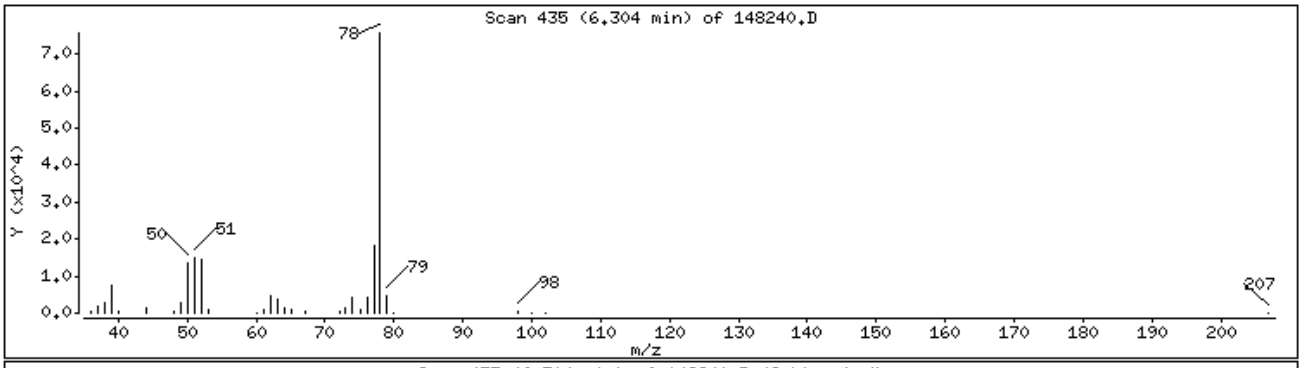
Client ID: Instrument: a3ux14.i

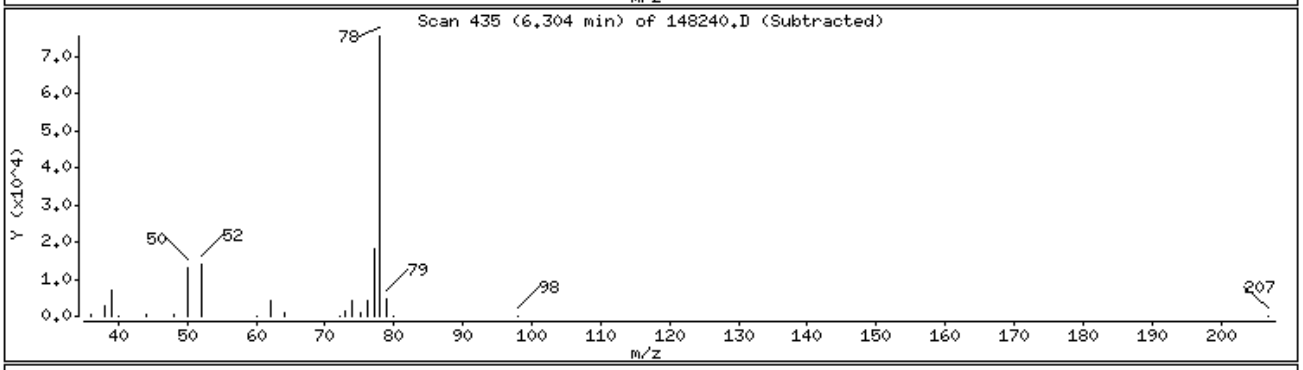
Sample Info: QCMRL

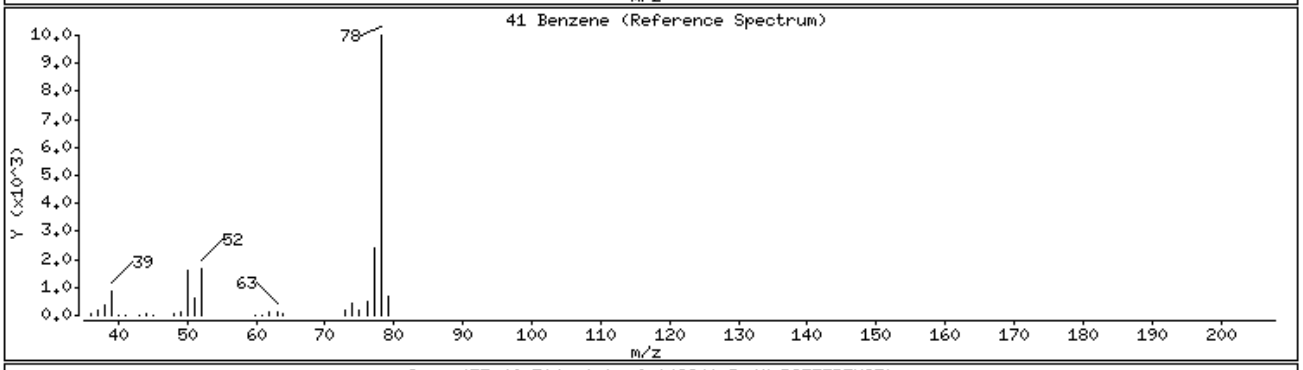
Purge Volume: 5.0 Operator: 2807

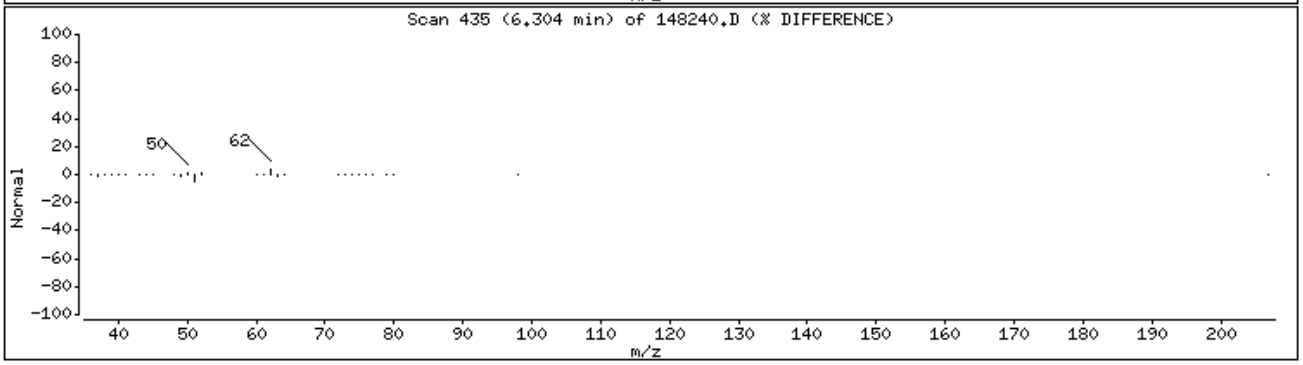
Column phase: DB624 Column diameter: 0.18

41 Benzene Concentration: 5.286 UG/KG









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Date : 26-FEB-2010 21:17

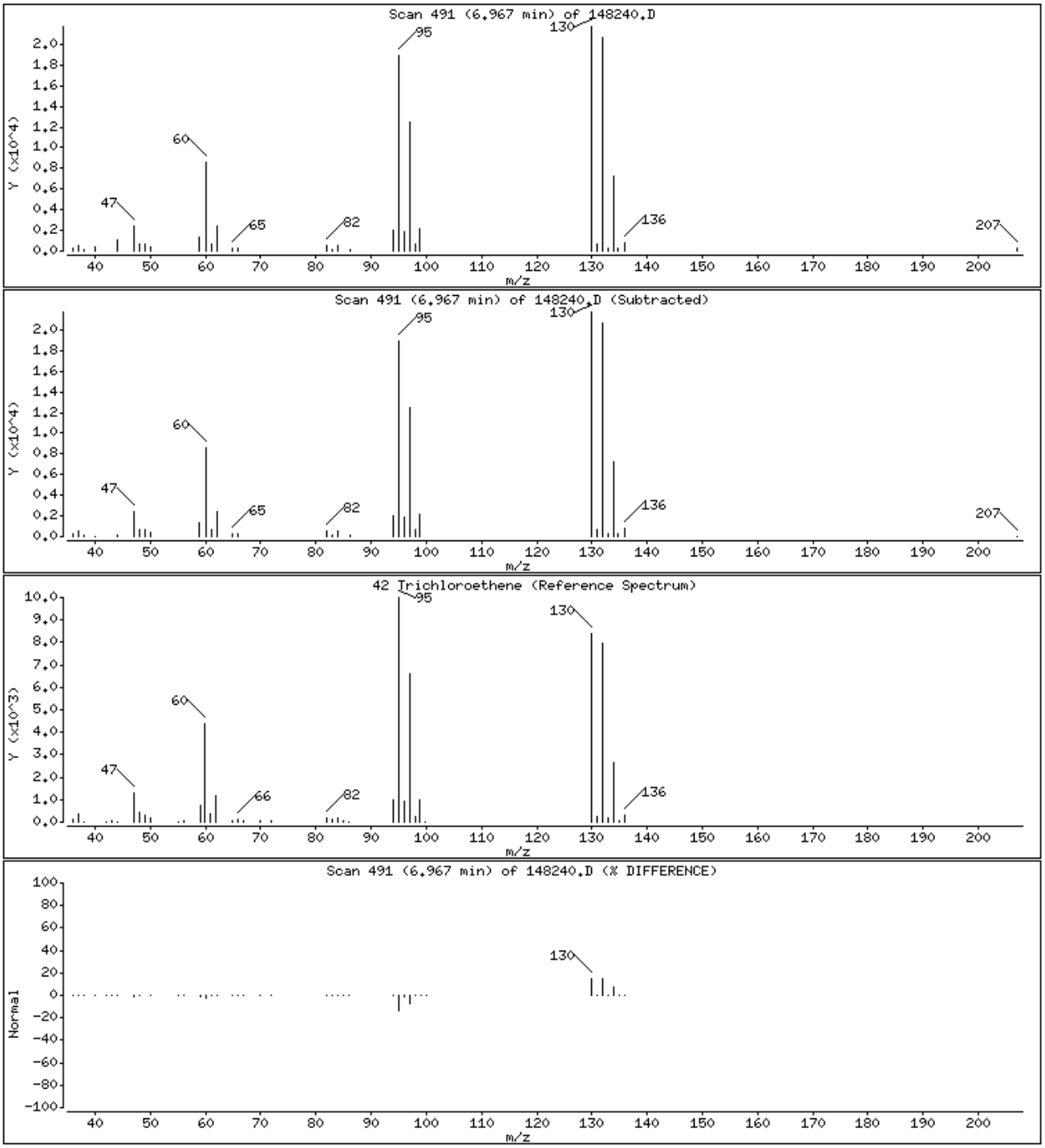
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

42 Trichloroethene Concentration: 5.238 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

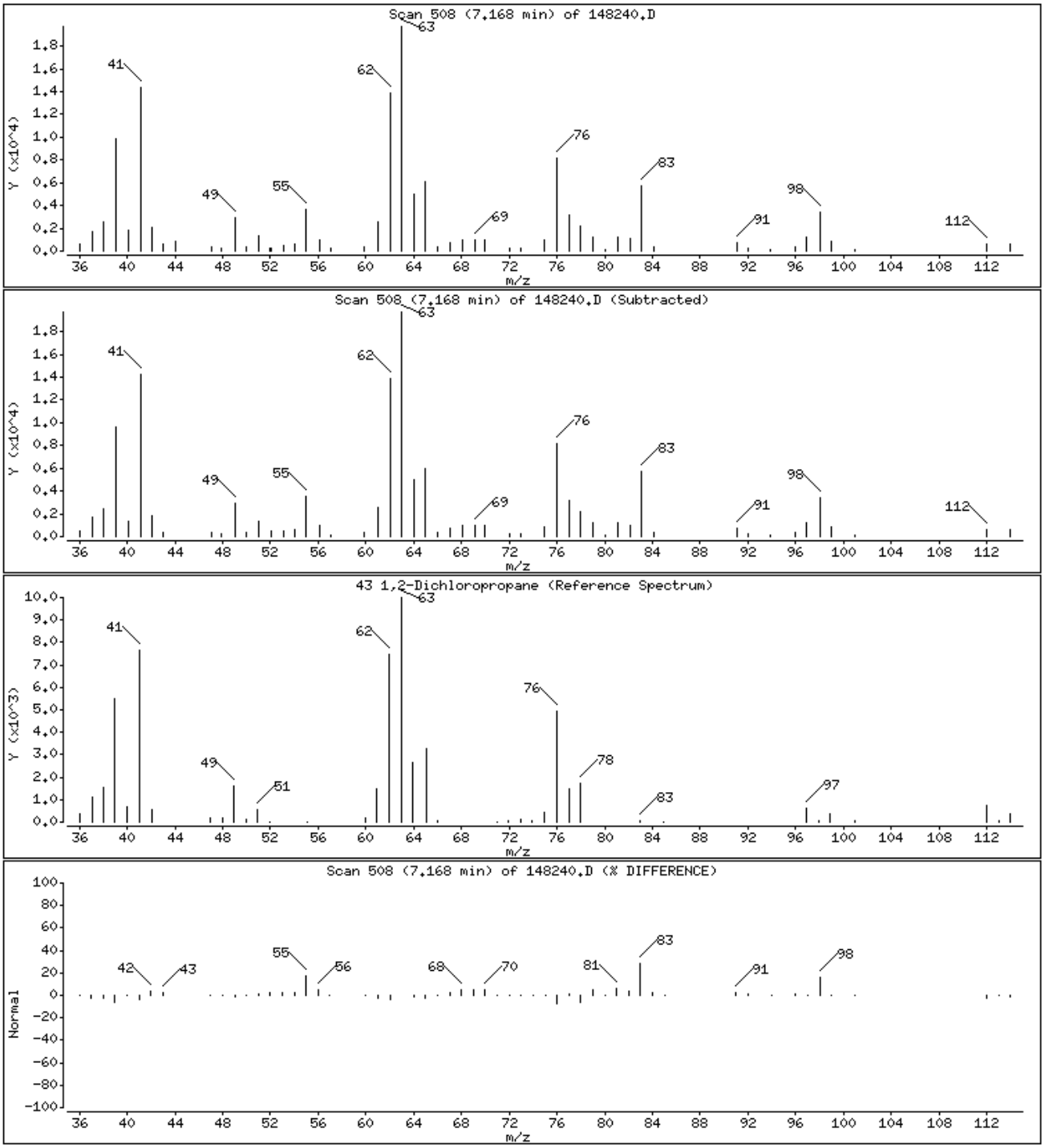
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

43 1,2-Dichloropropane Concentration: 5.168 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

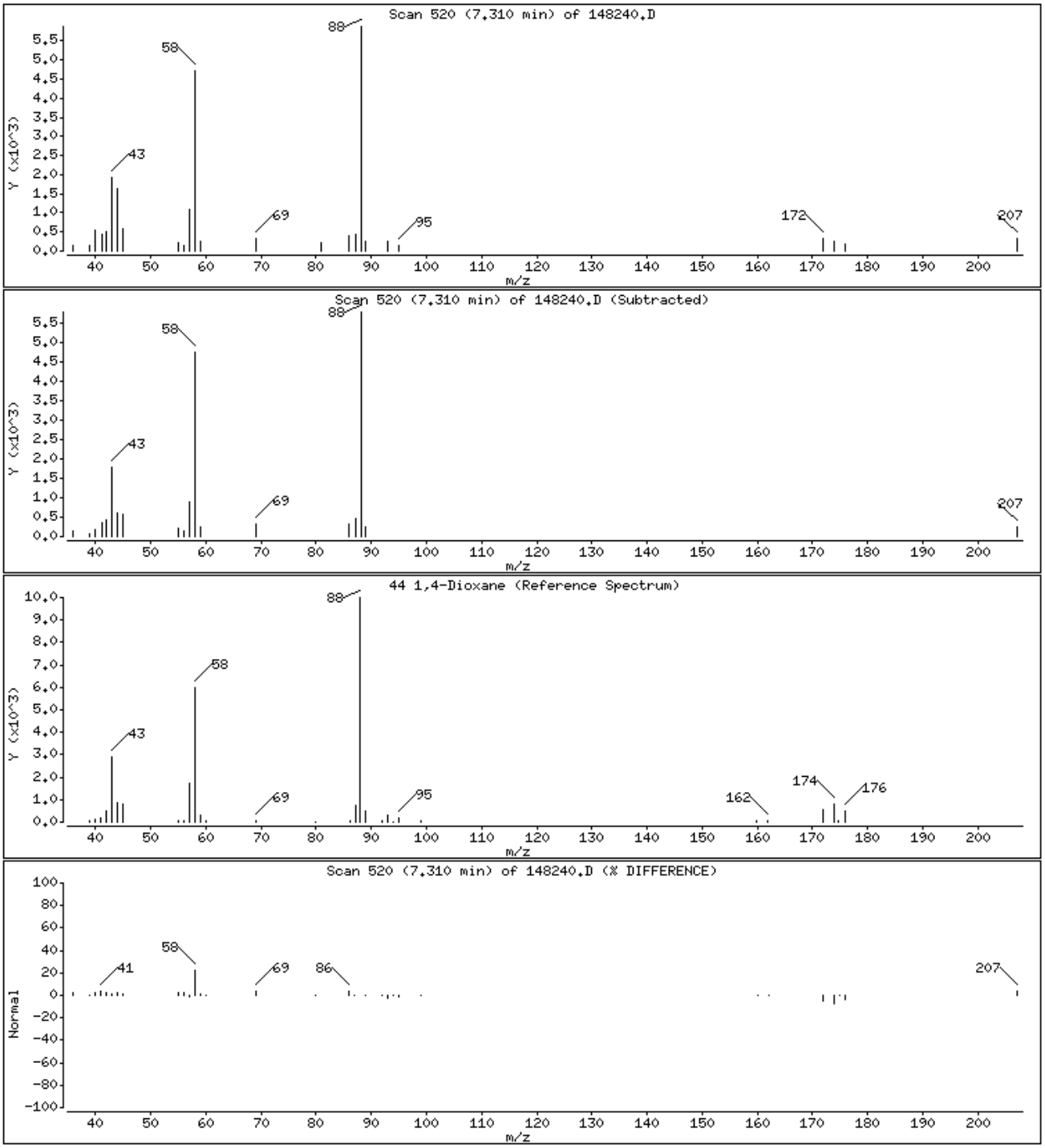
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

44 1,4-Dioxane Concentration: 238.51 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

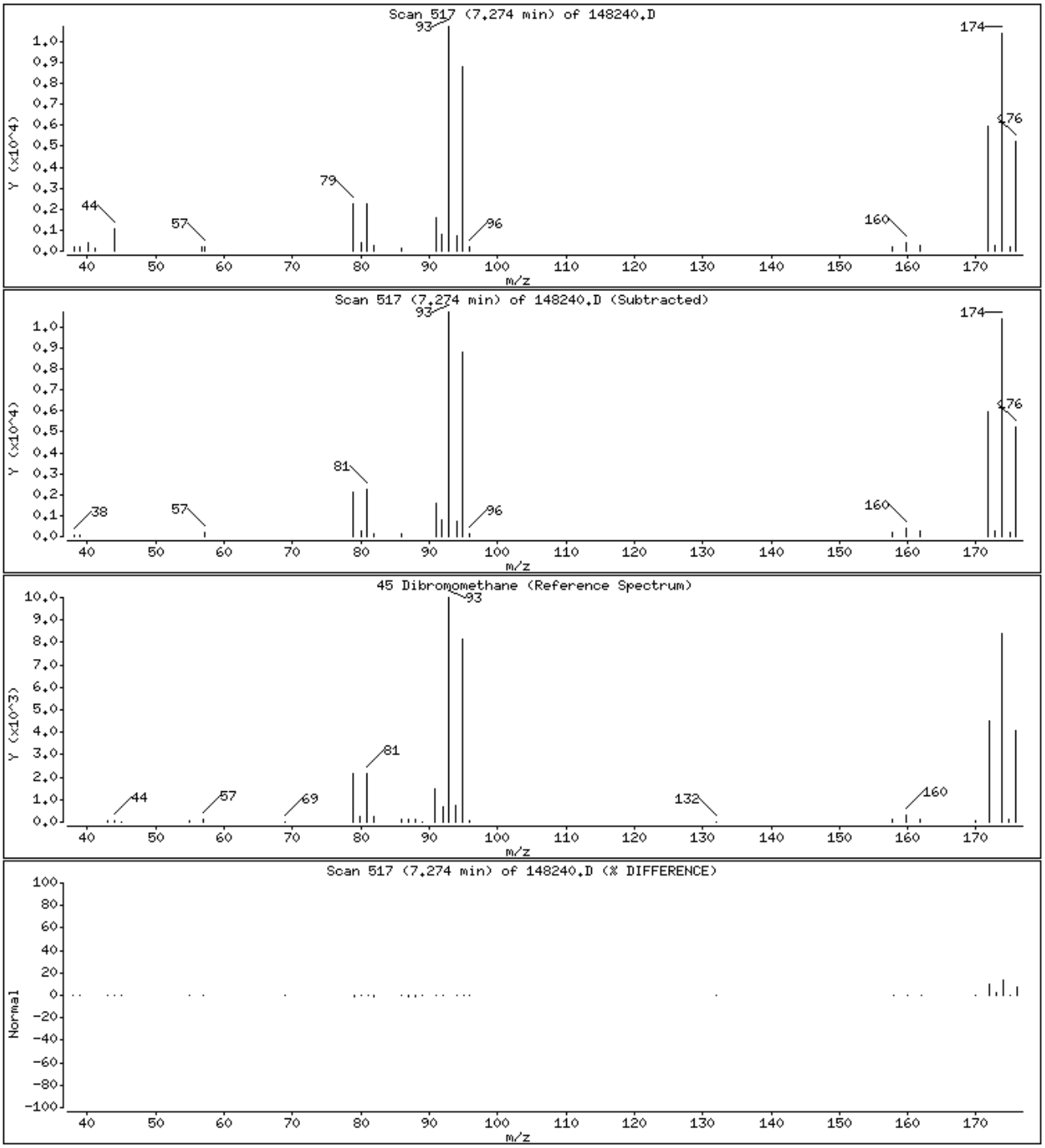
Operator: 2807

Column phase: DB624

Column diameter: 0.18

45 Dibromomethane

Concentration: 5.623 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

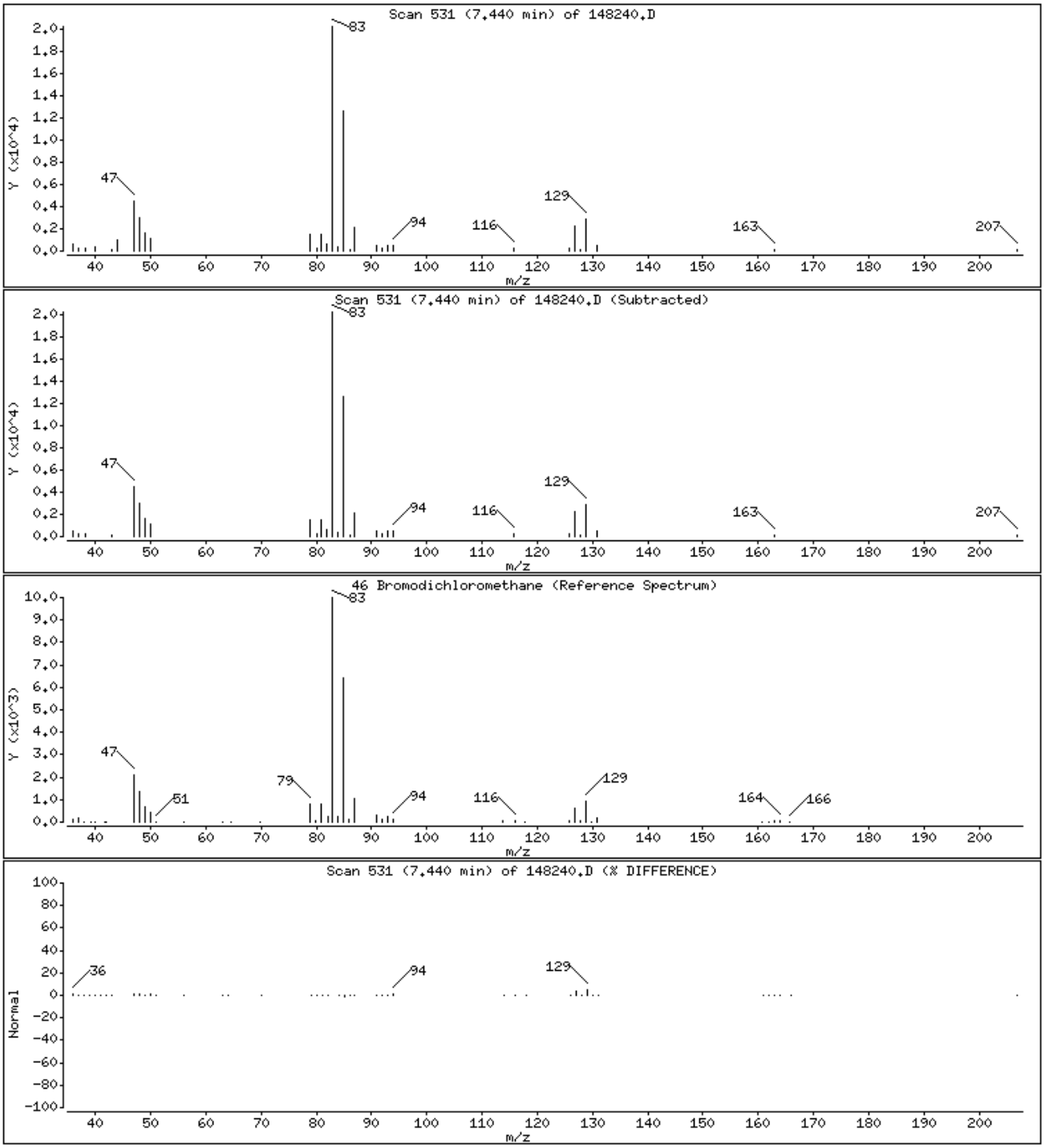
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

46 Bromodichloromethane Concentration: 5.202 UG/KG



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Date : 26-FEB-2010 21:17

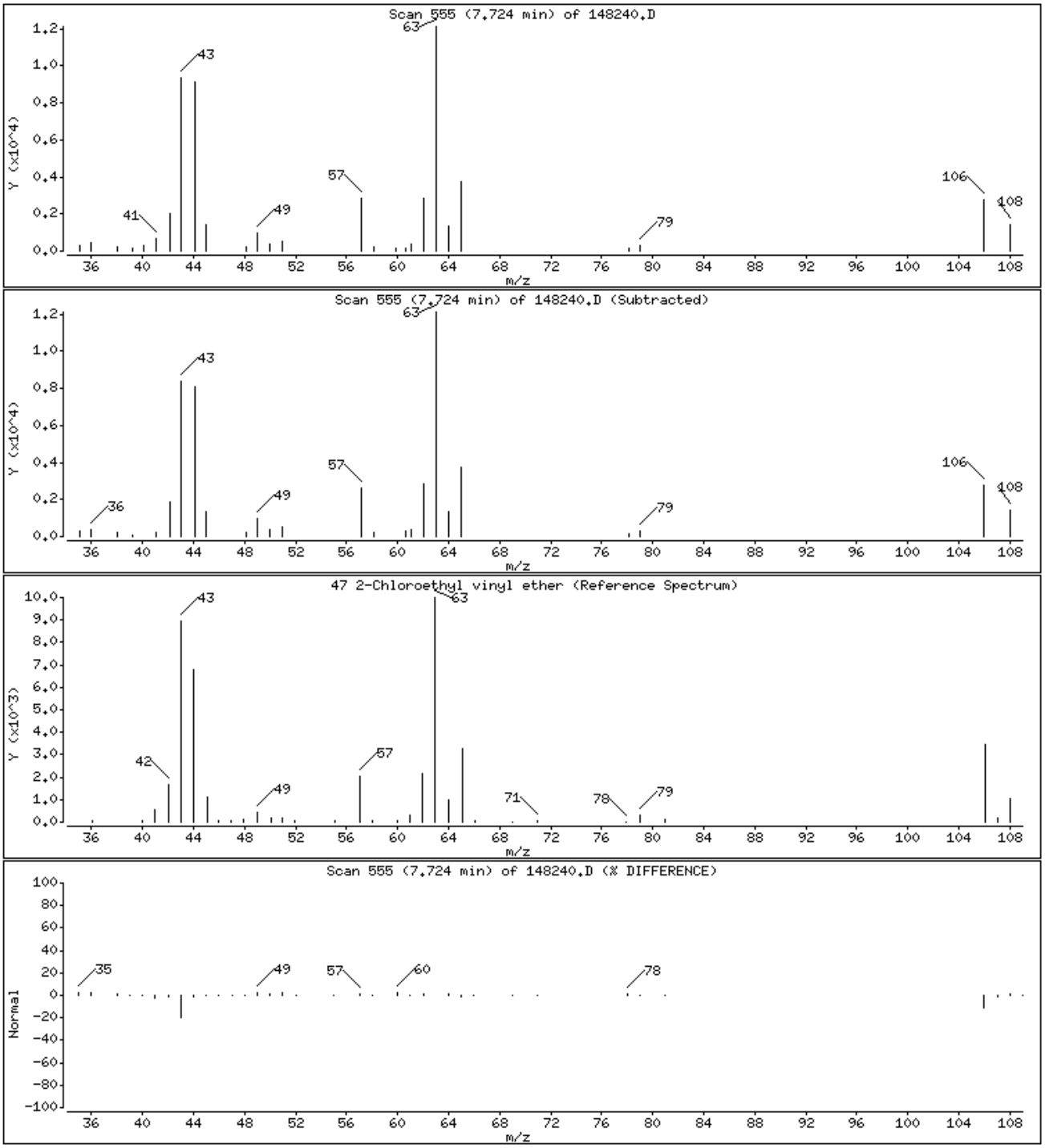
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

47 2-Chloroethyl vinyl ether Concentration: 7.742 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

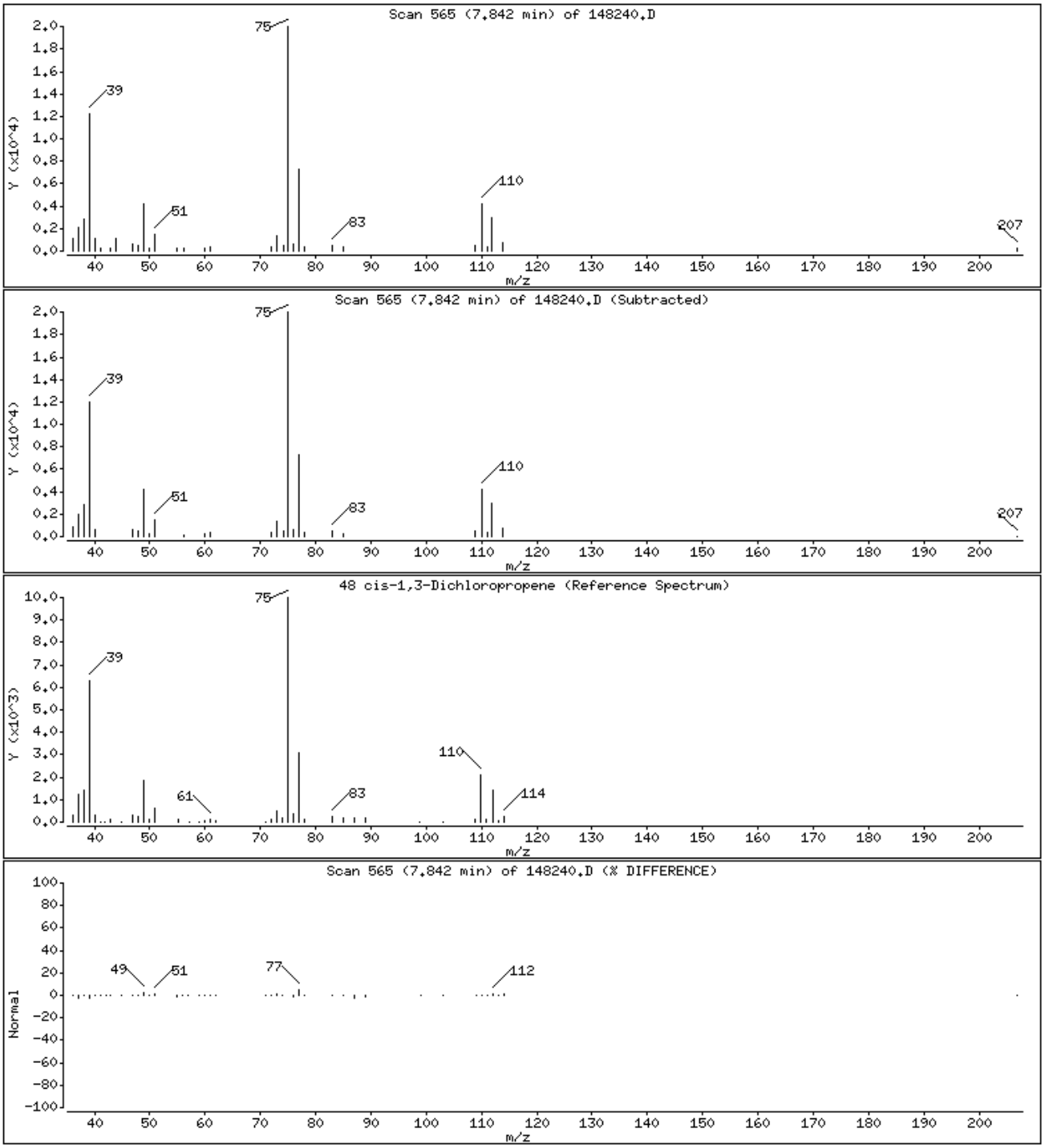
Operator: 2807

Column phase: DB624

Column diameter: 0.18

48 cis-1,3-Dichloropropene

Concentration: 4.147 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

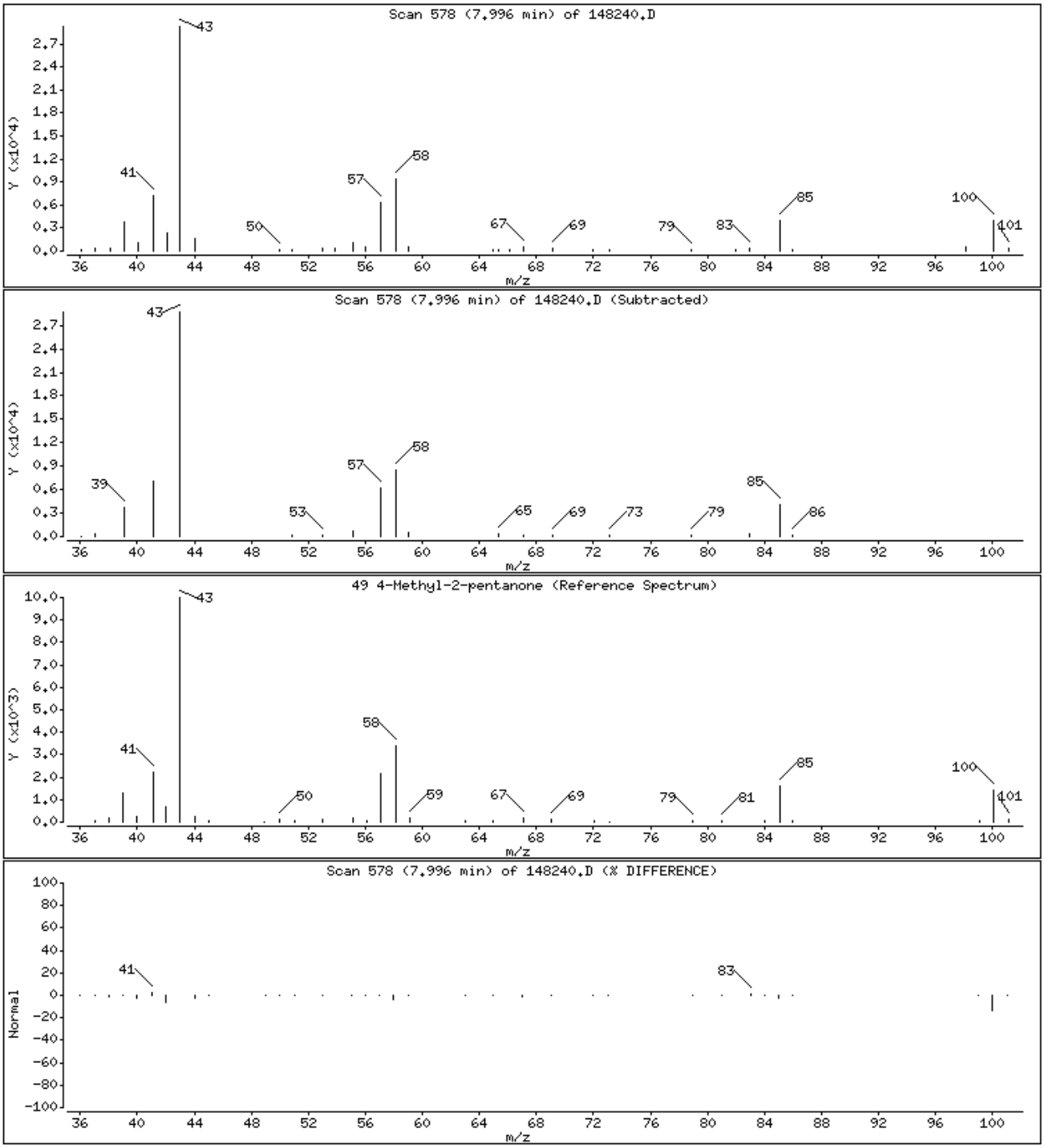
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

49 4-Methyl-2-pentanone Concentration: 8.570 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

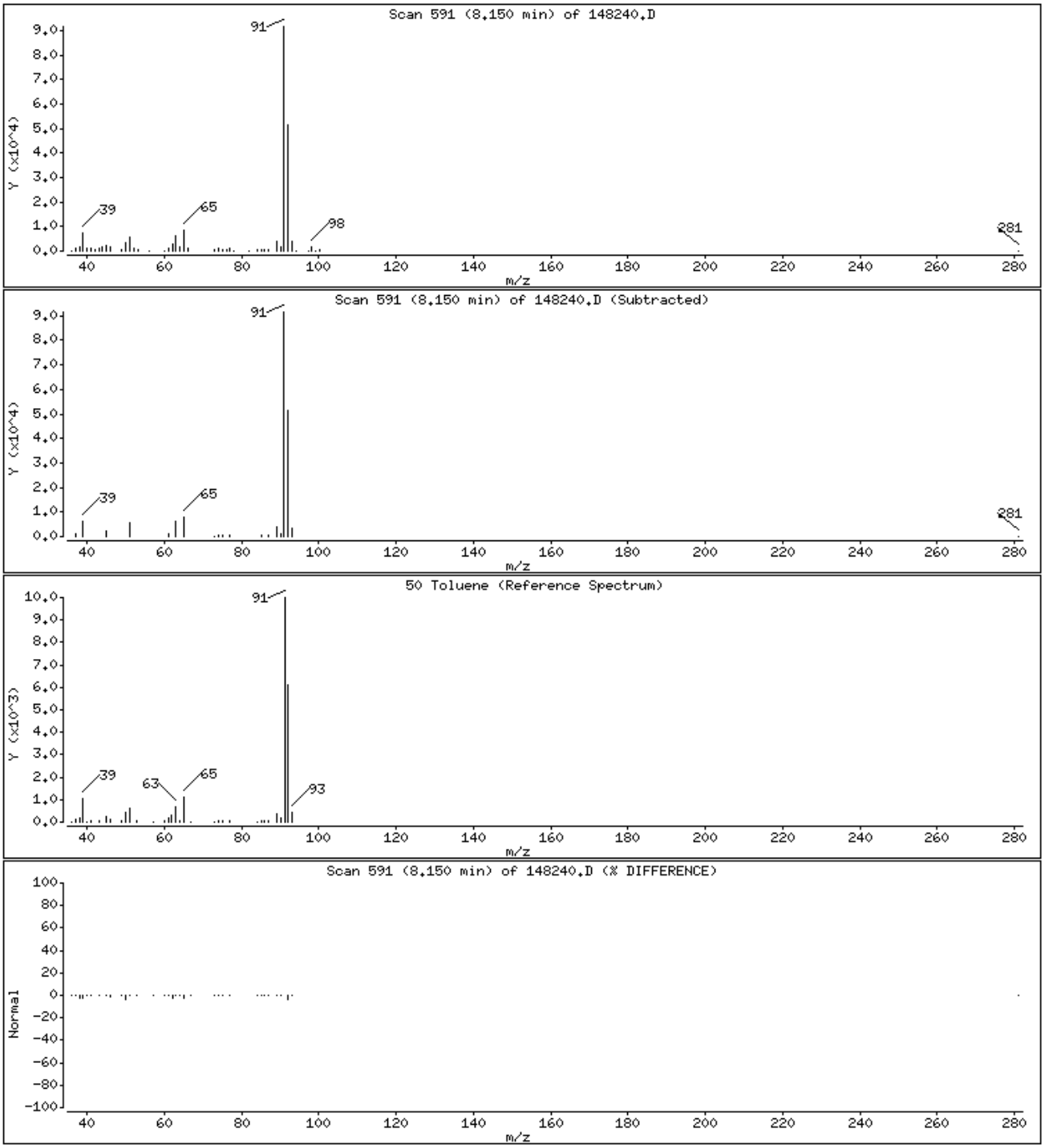
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

50 Toluene Concentration: 6.295 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

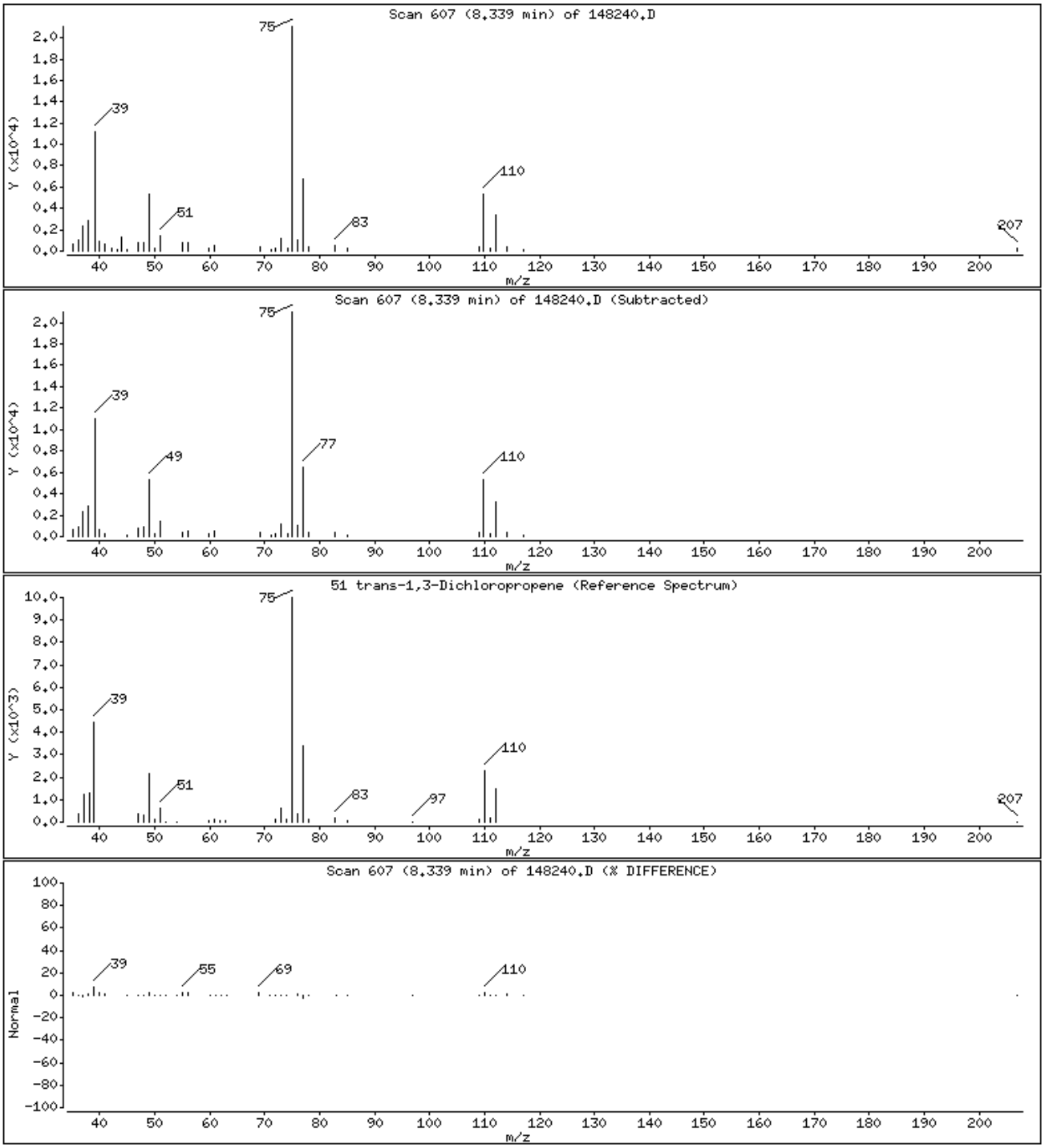
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

51 trans-1,3-Dichloropropene Concentration: 4.345 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

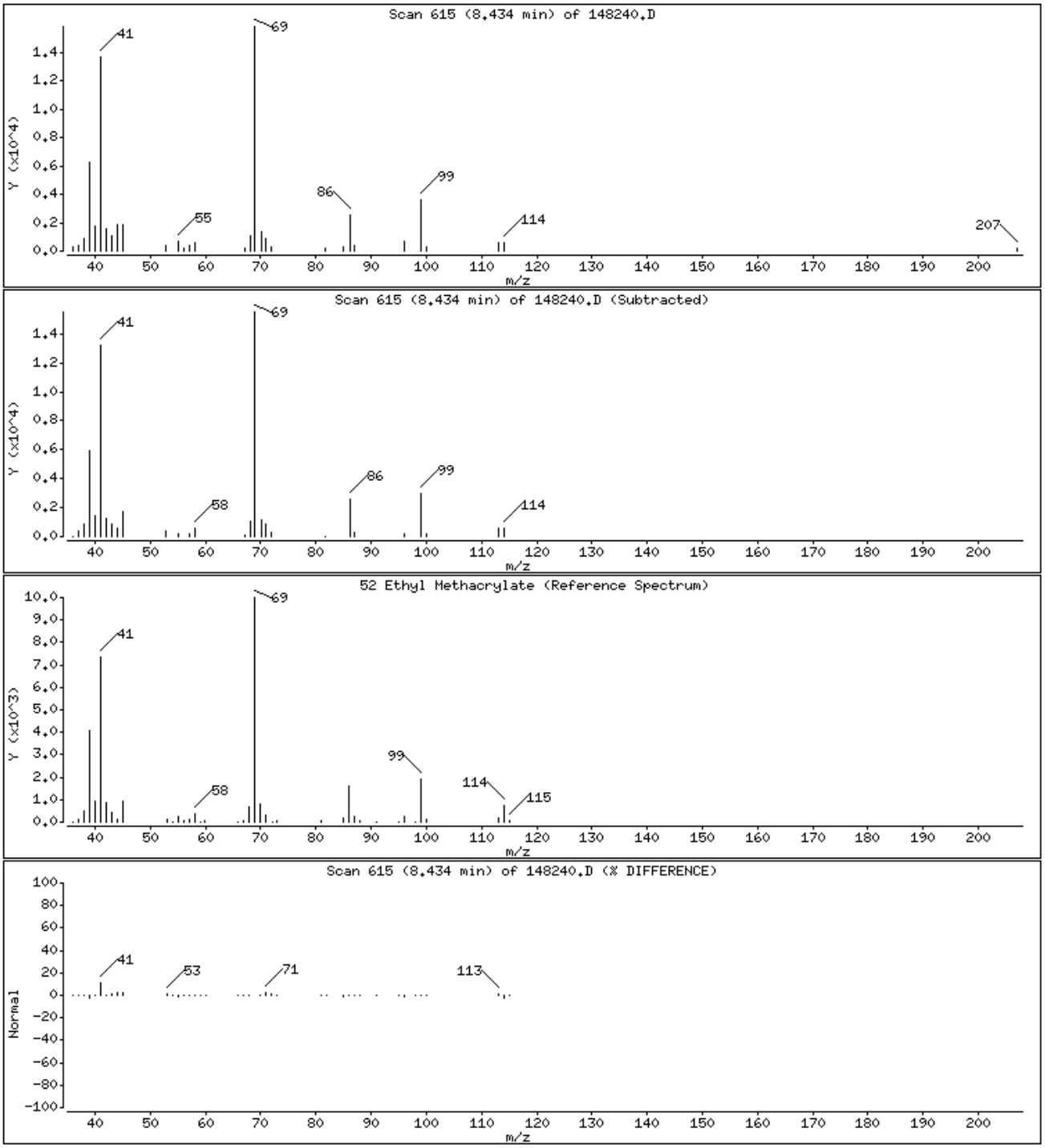
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

52 Ethyl Methacrylate Concentration: 4.355 UG/KG



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Date : 26-FEB-2010 21:17

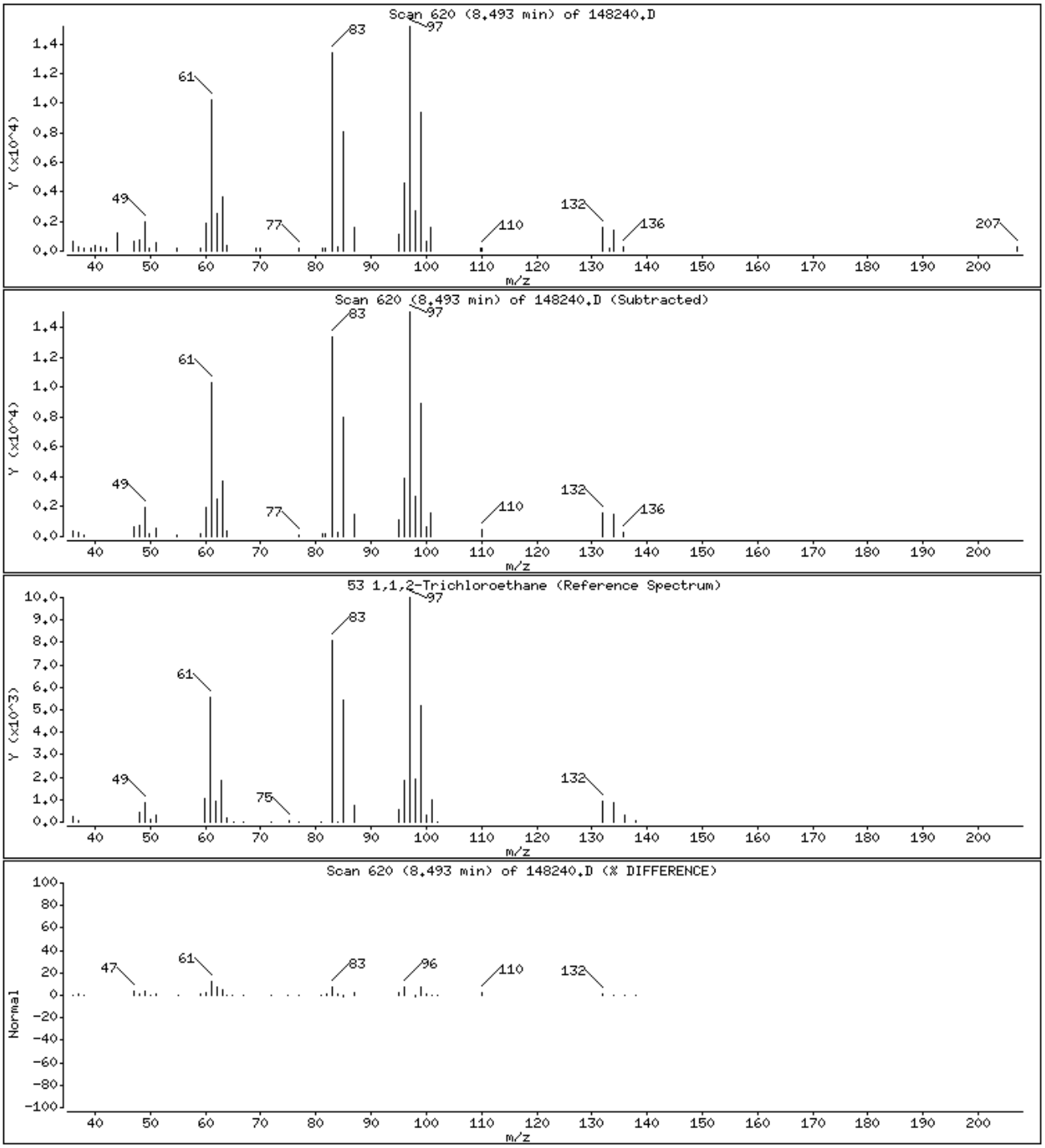
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

53 1,1,2-Trichloroethane Concentration: 5.240 UG/KG



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Date : 26-FEB-2010 21:17

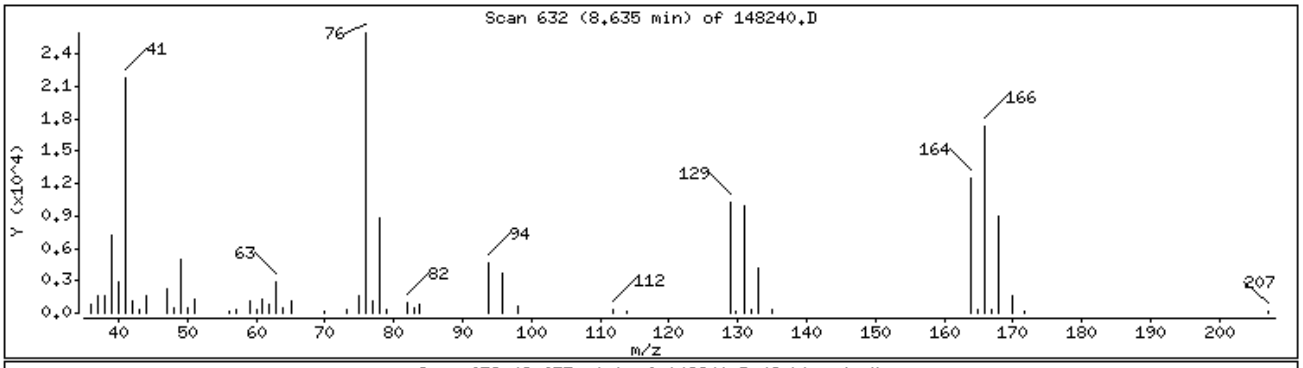
Client ID: Instrument: a3ux14.i

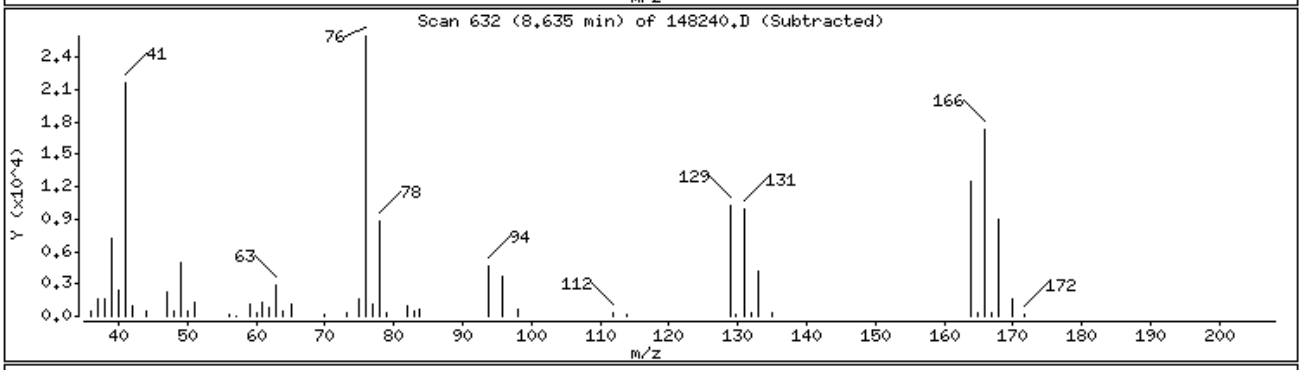
Sample Info: QCMRL

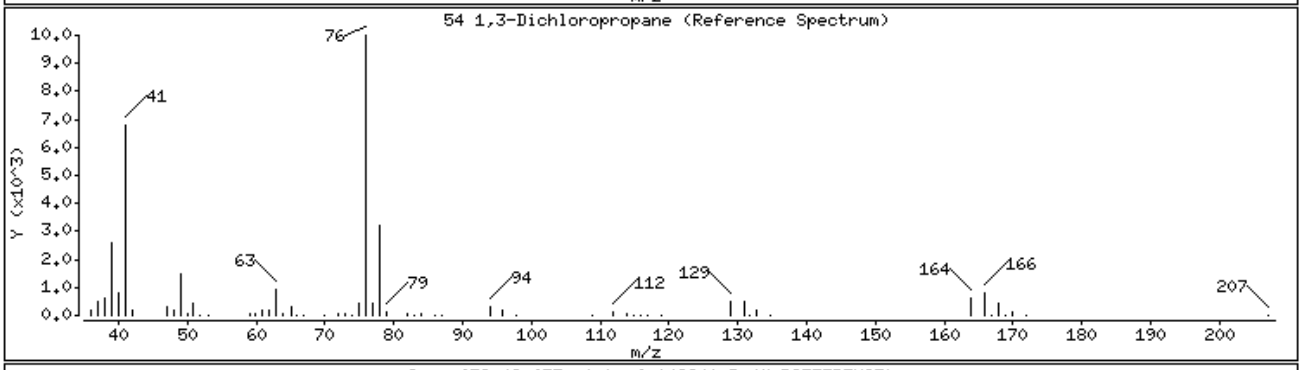
Purge Volume: 5.0 Operator: 2807

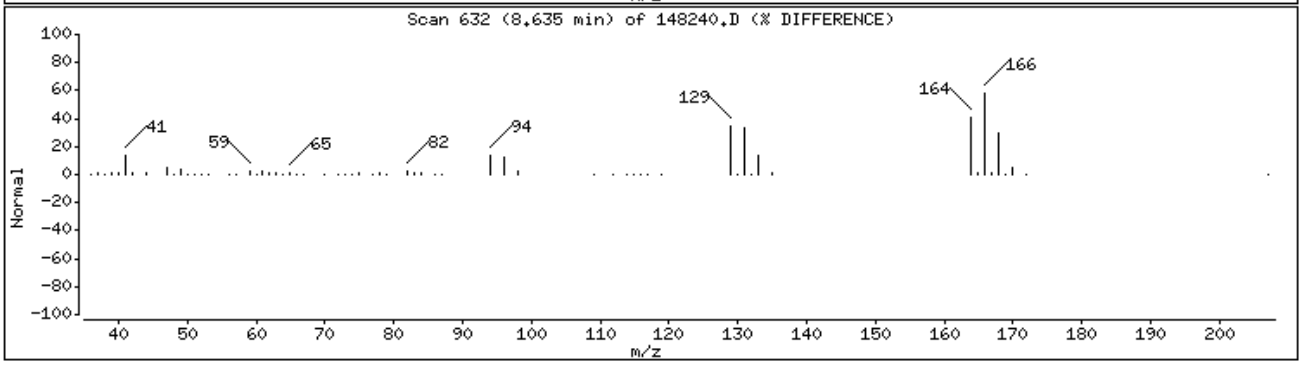
Column phase: DB624 Column diameter: 0.18

54 1,3-Dichloropropane Concentration: 5.344 UG/KG









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Date : 26-FEB-2010 21:17

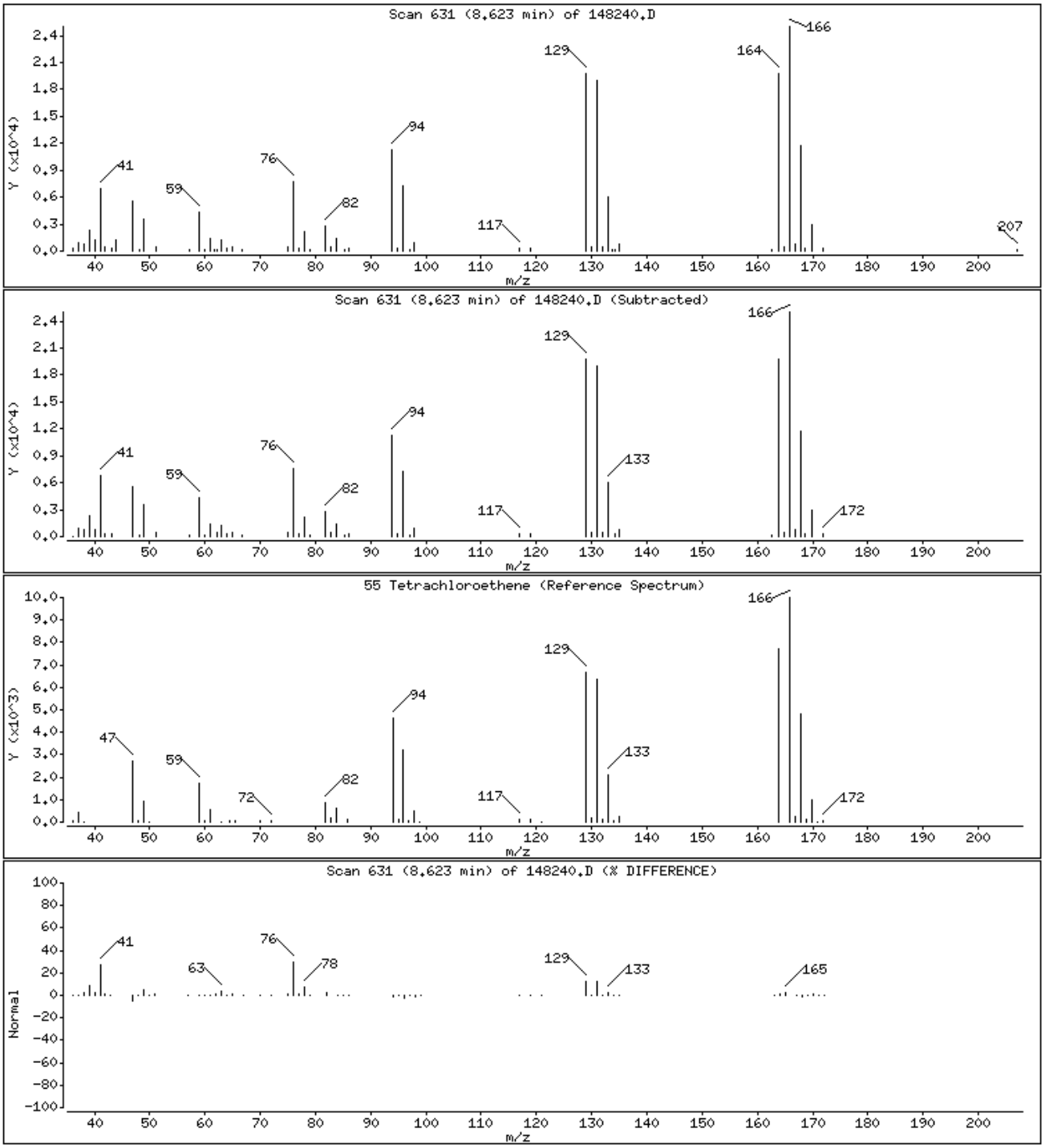
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

55 Tetrachloroethene Concentration: 5.447 UG/KG



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Date : 26-FEB-2010 21:17

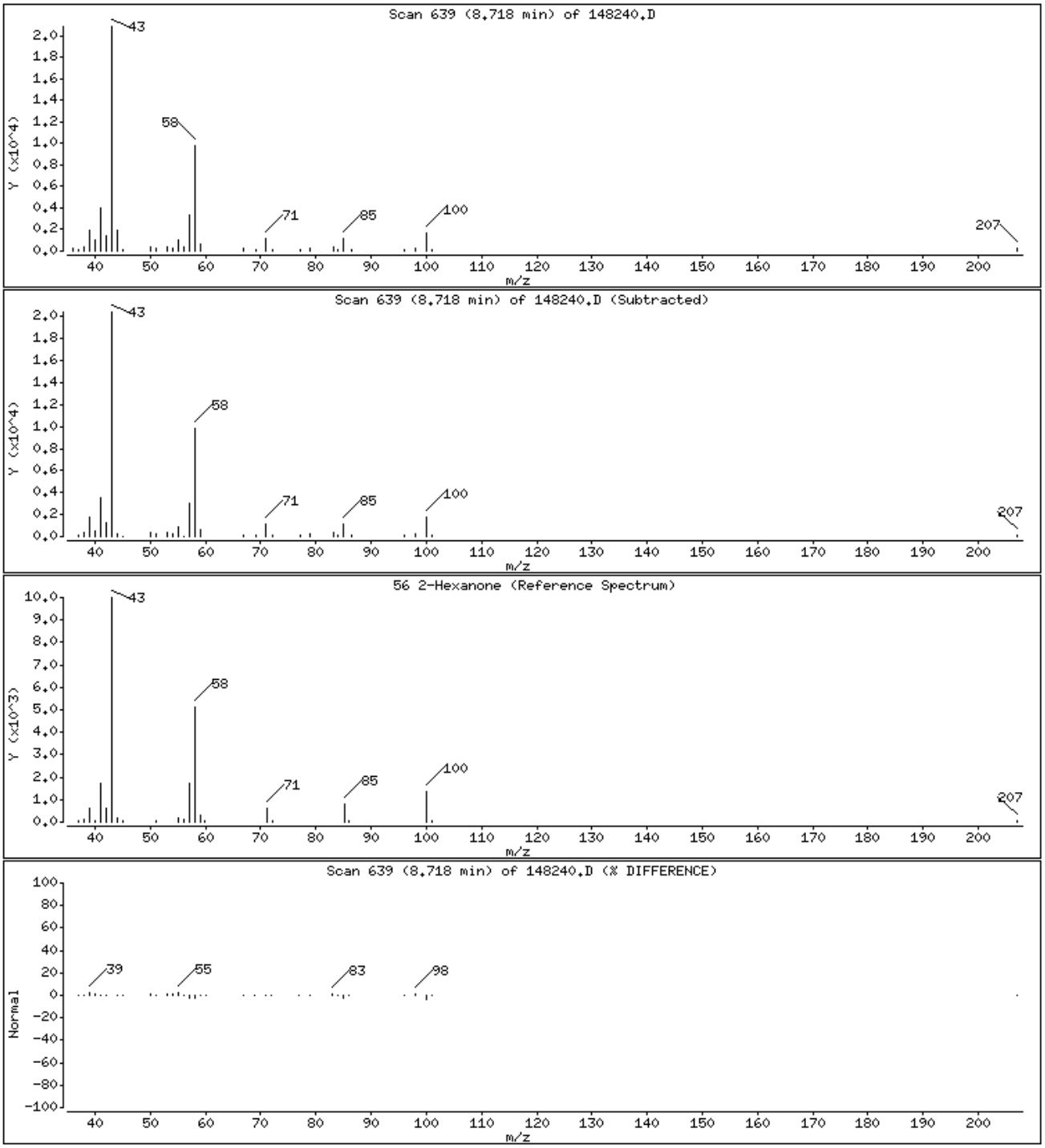
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

56 2-Hexanone Concentration: 8.941 UG/KG



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Date : 26-FEB-2010 21:17

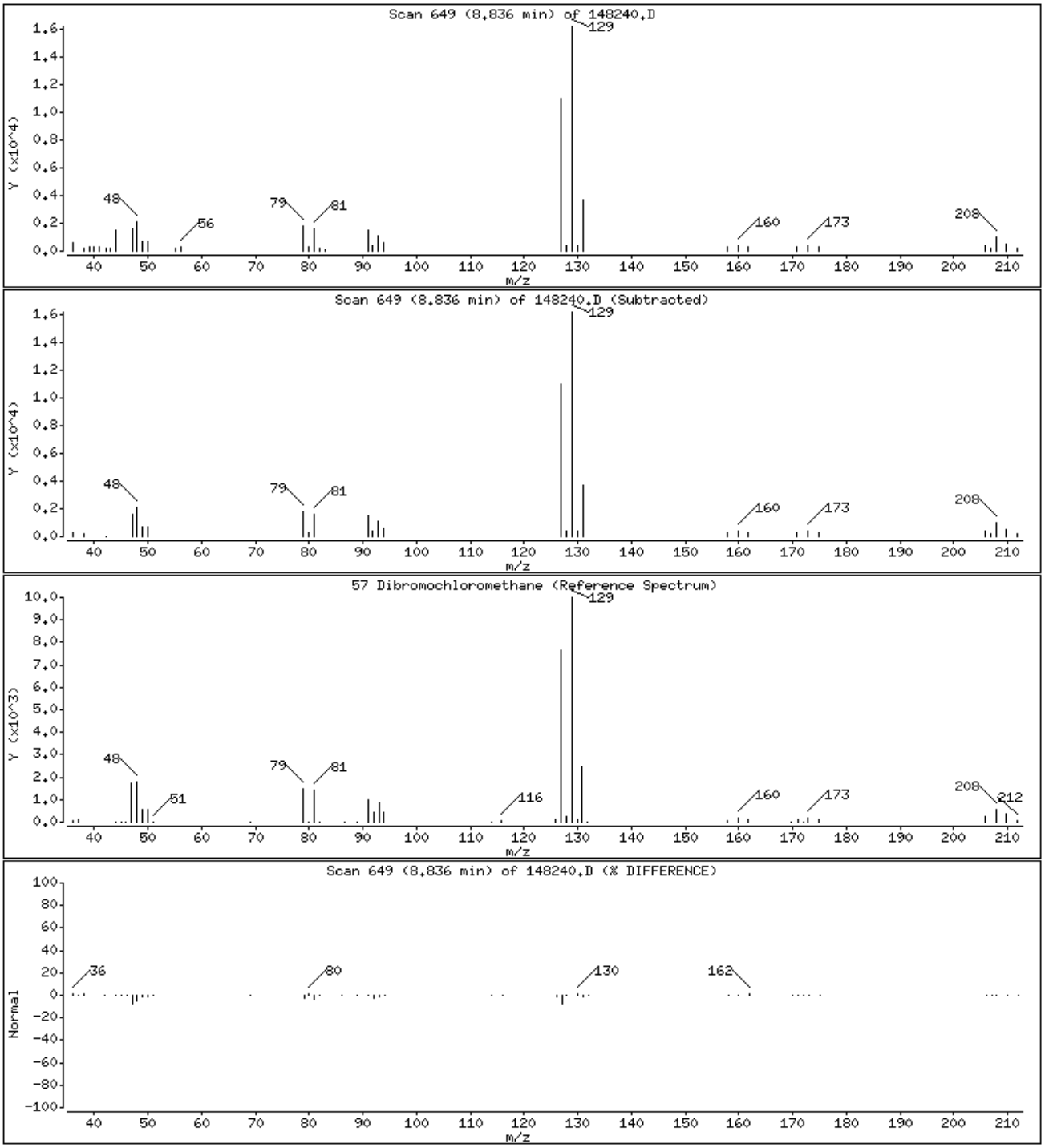
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

57 Dibromochloromethane Concentration: 4.852 UG/KG



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Date : 26-FEB-2010 21:17

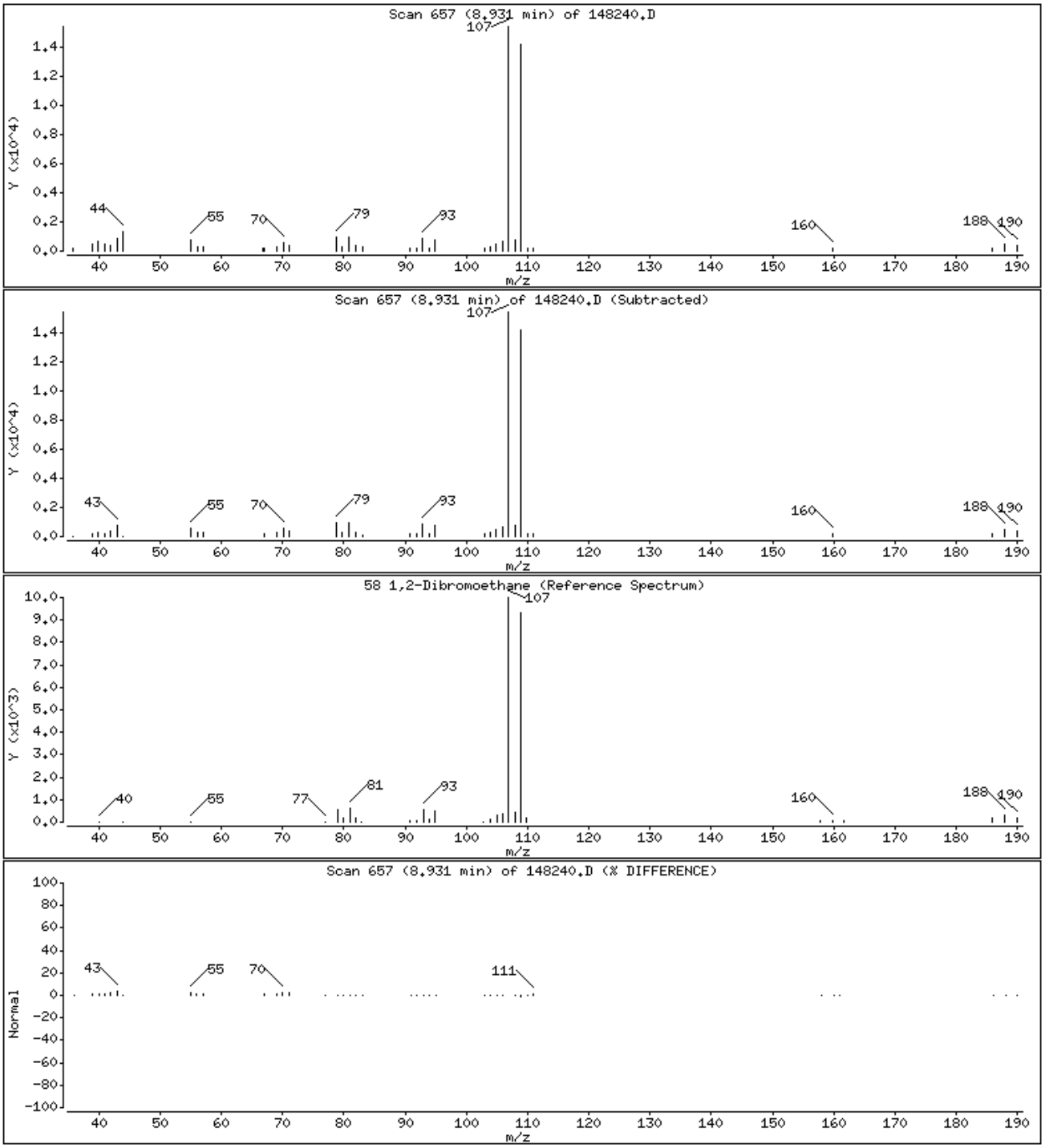
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

58 1,2-Dibromoethane Concentration: 5.159 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

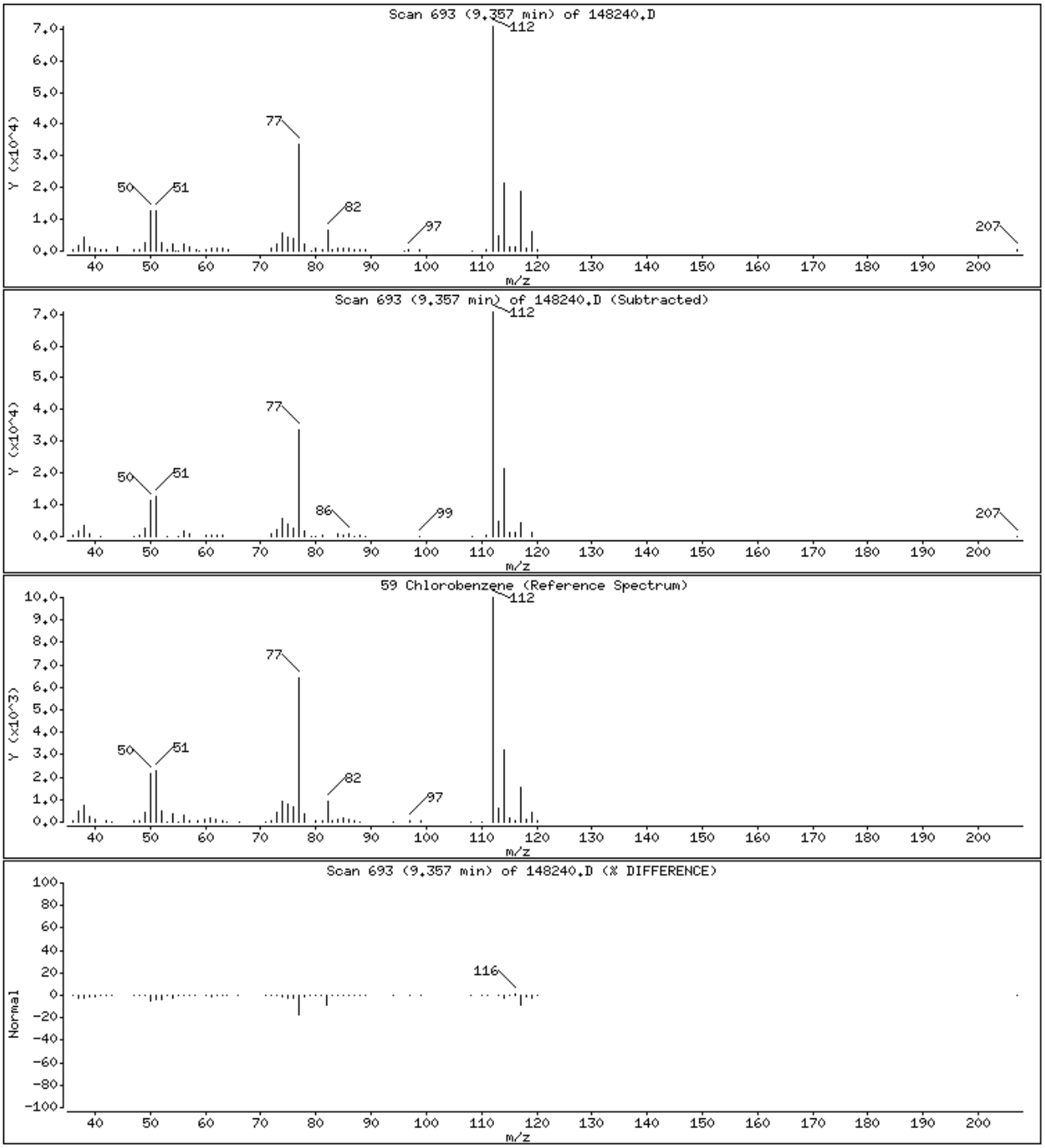
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

59 Chlorobenzene Concentration: 5.719 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

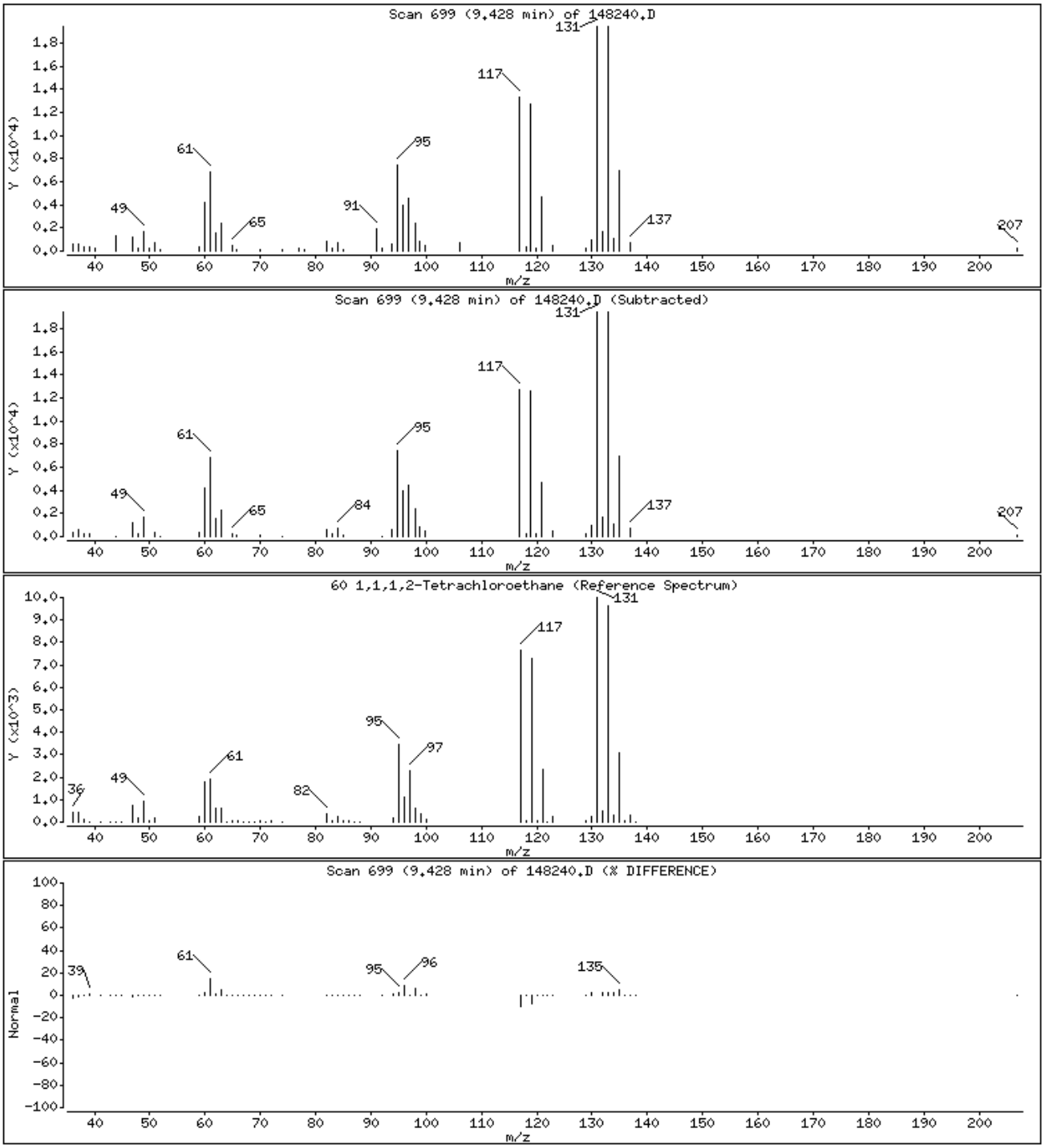
Operator: 2807

Column phase: DB624

Column diameter: 0.18

60 1,1,1,2-Tetrachloroethane

Concentration: 5.097 UG/KG



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Date : 26-FEB-2010 21:17

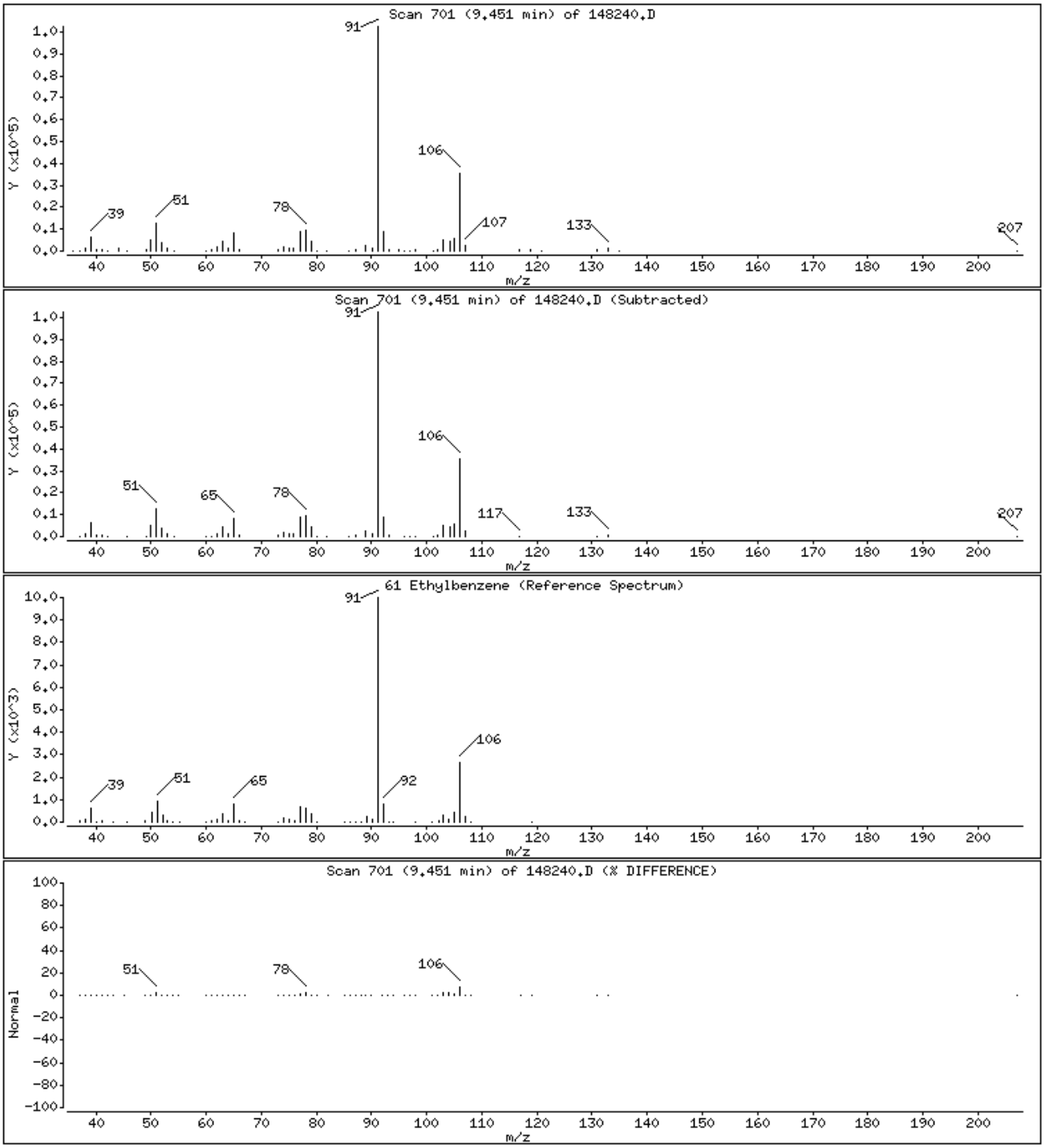
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

61 Ethylbenzene Concentration: 5.430 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

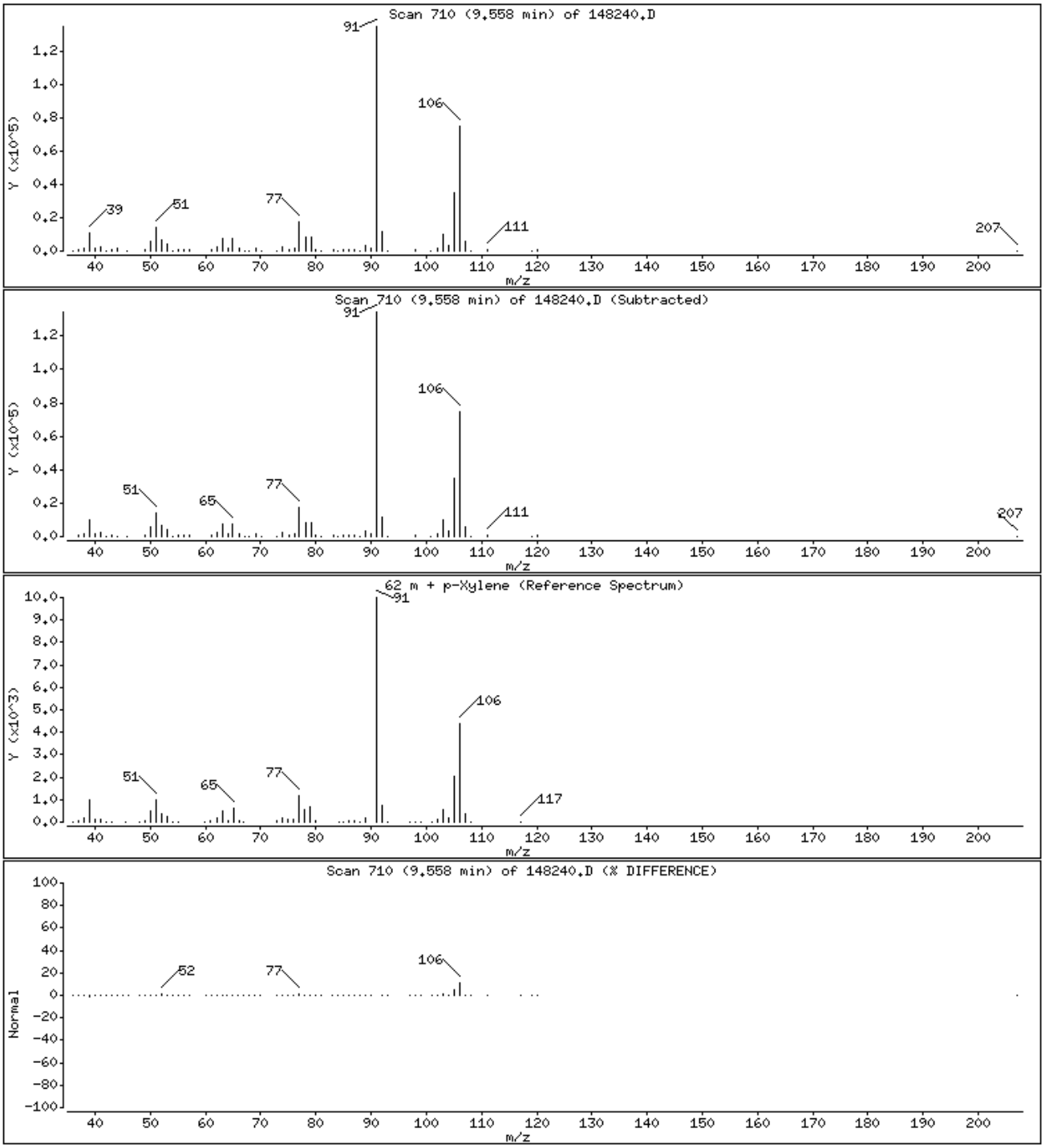
Operator: 2807

Column phase: DB624

Column diameter: 0.18

62 m + p-Xylene

Concentration: 10.724 UG/KG



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Date : 26-FEB-2010 21:17

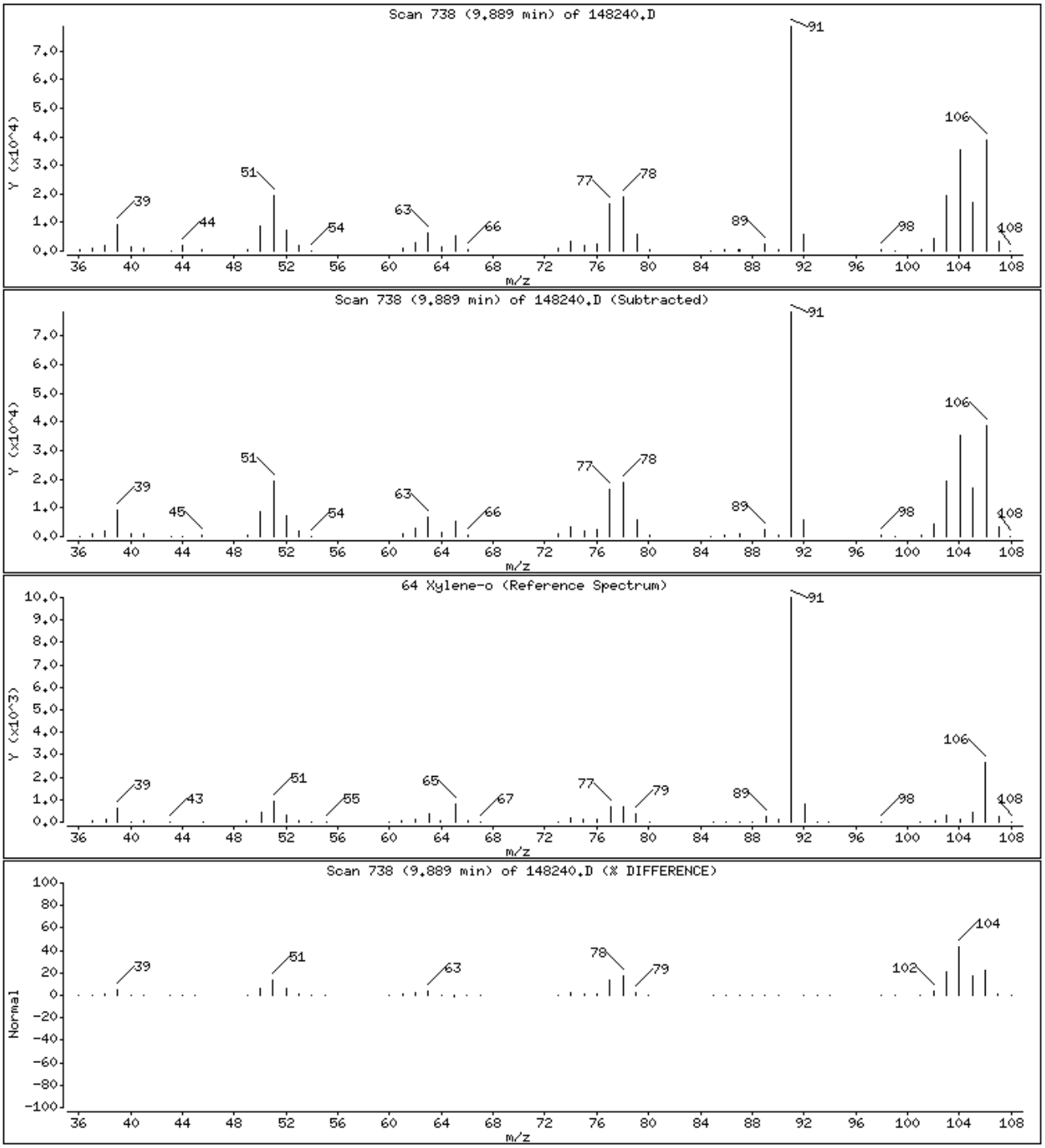
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

64 Xylene-o Concentration: 5.048 UG/KG



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Date : 26-FEB-2010 21:17

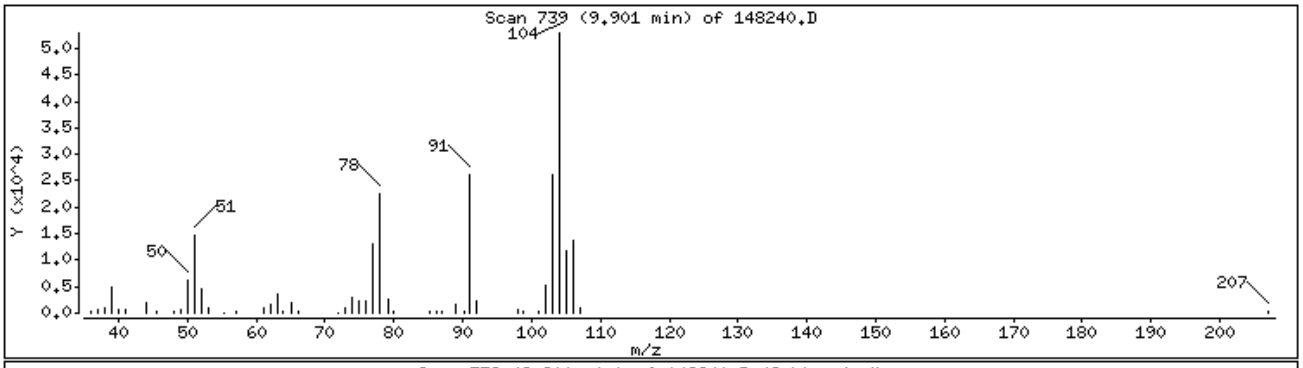
Client ID: Instrument: a3ux14.i

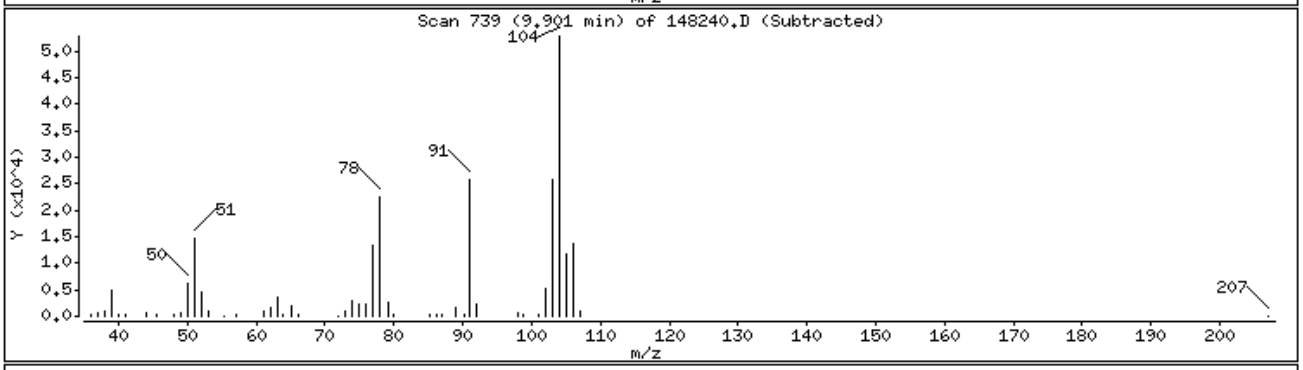
Sample Info: QCMRL

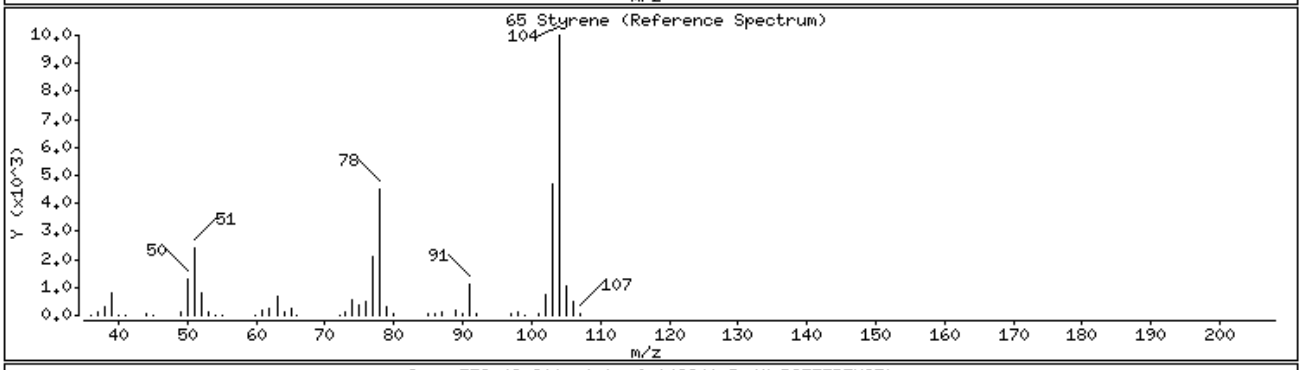
Purge Volume: 5.0 Operator: 2807

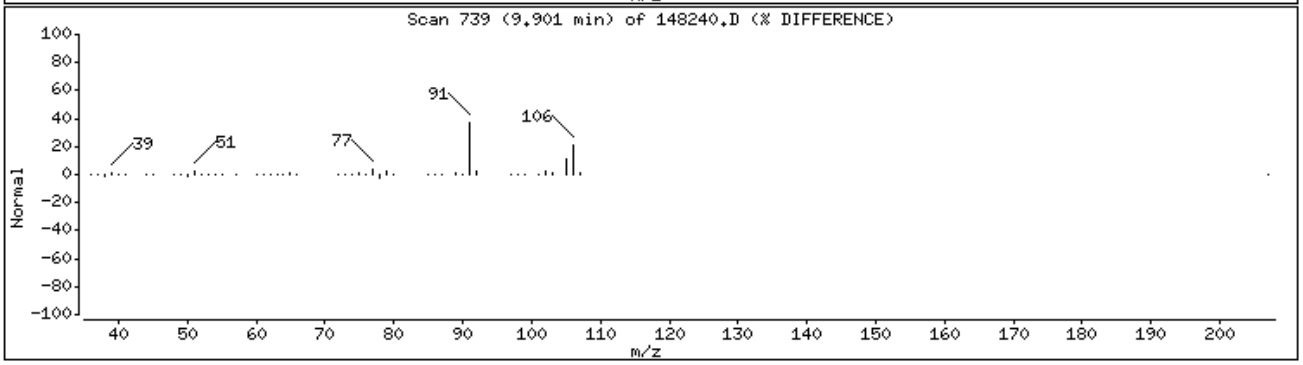
Column phase: DB624 Column diameter: 0.18

65 Styrene Concentration: 4.830 UG/KG









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Date : 26-FEB-2010 21:17

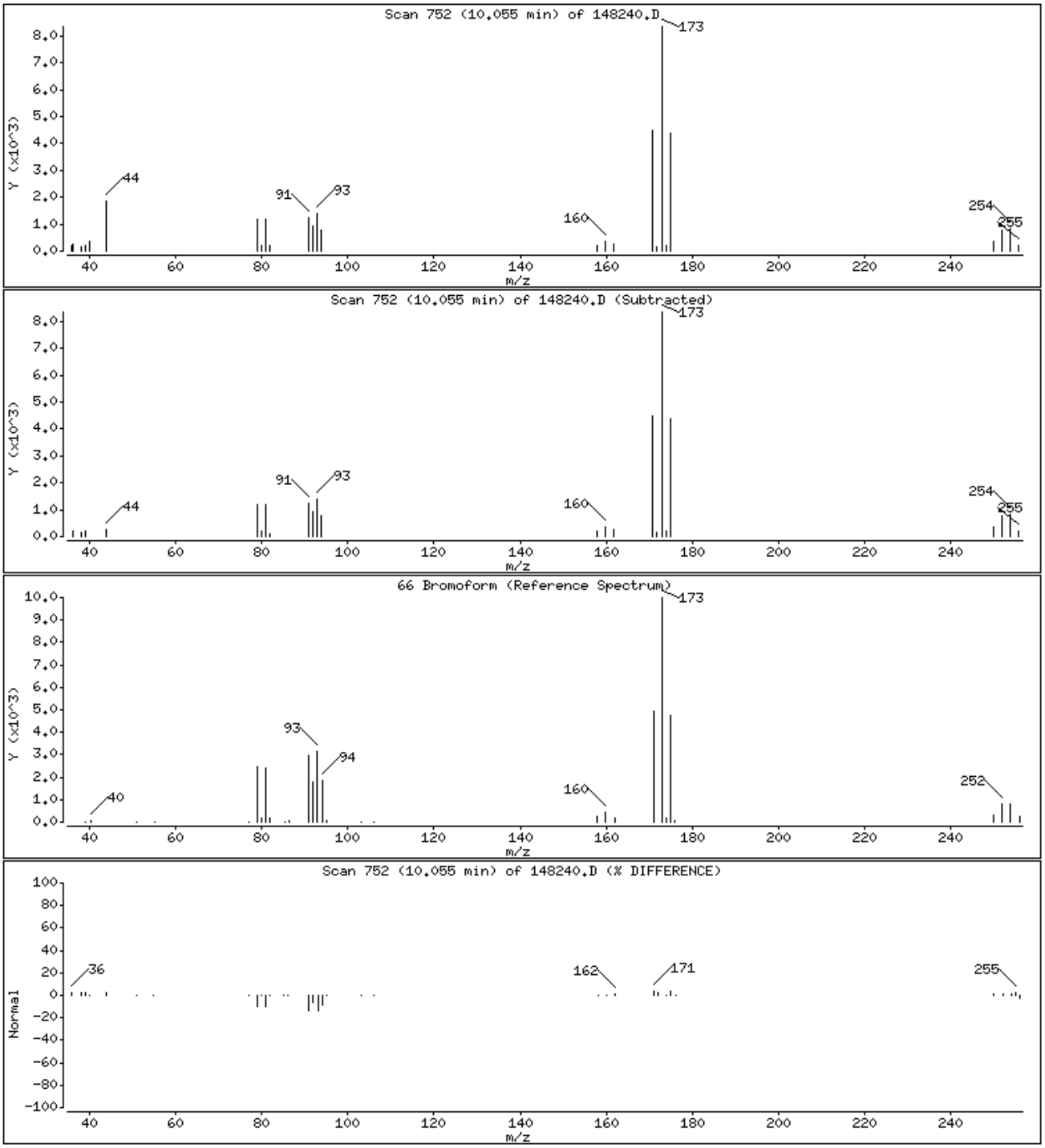
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

66 Bromoform Concentration: 4.659 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

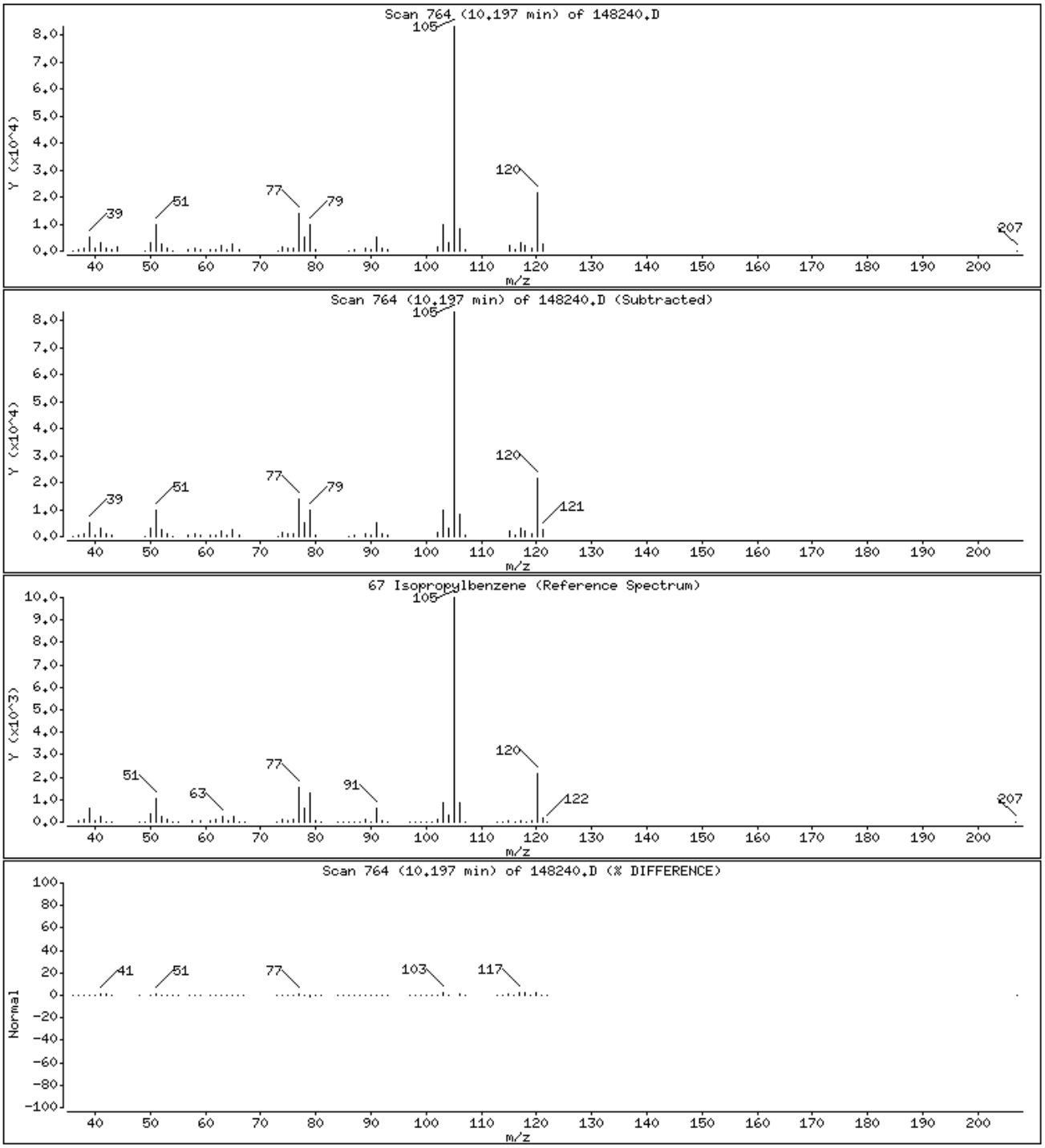
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

67 Isopropylbenzene Concentration: 4.675 UG/KG



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Date : 26-FEB-2010 21:17

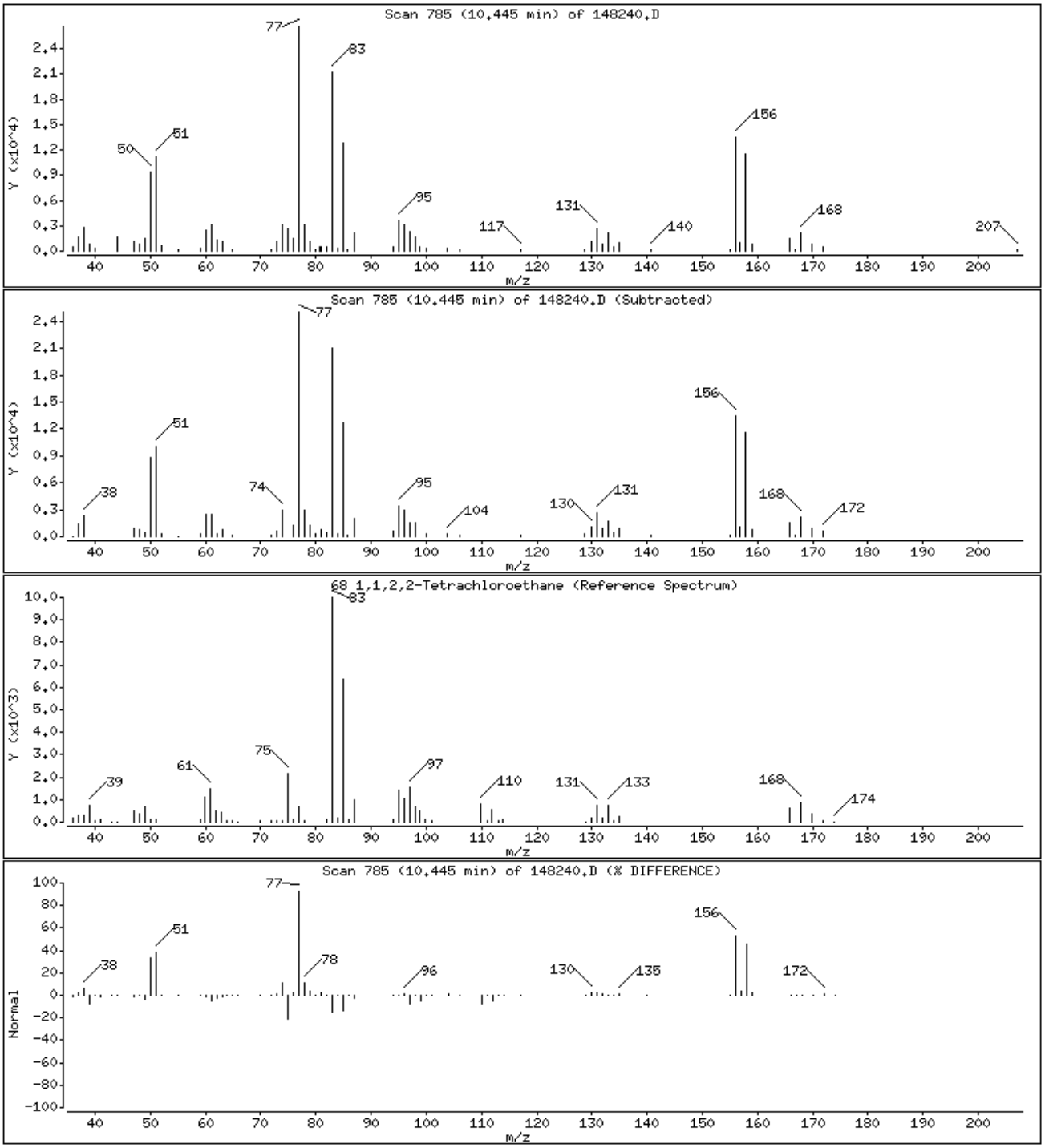
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

68 1,1,2,2-Tetrachloroethane Concentration: 5.378 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

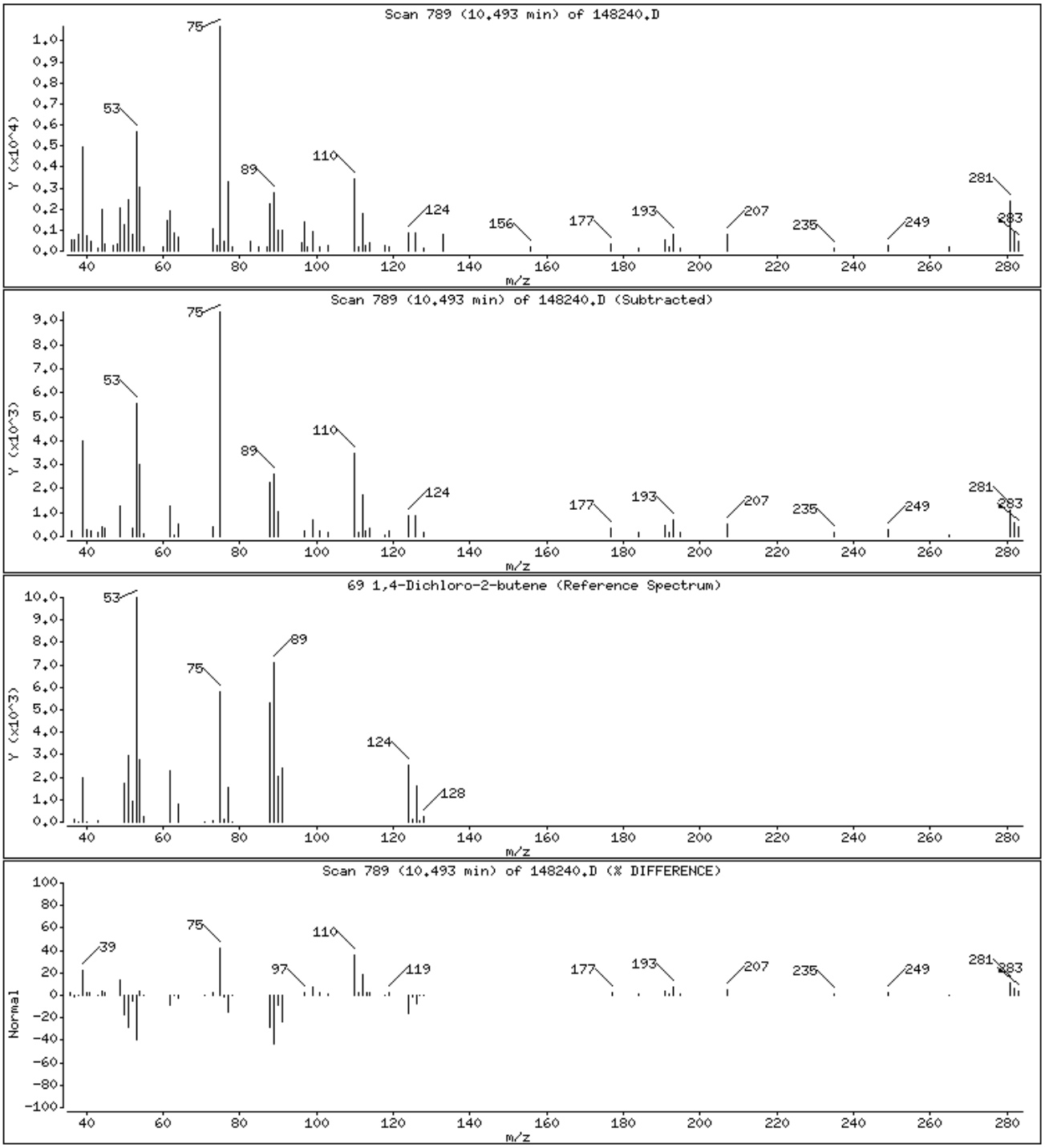
Operator: 2807

Column phase: DB624

Column diameter: 0.18

69 1,4-Dichloro-2-butene

Concentration: 4.607 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

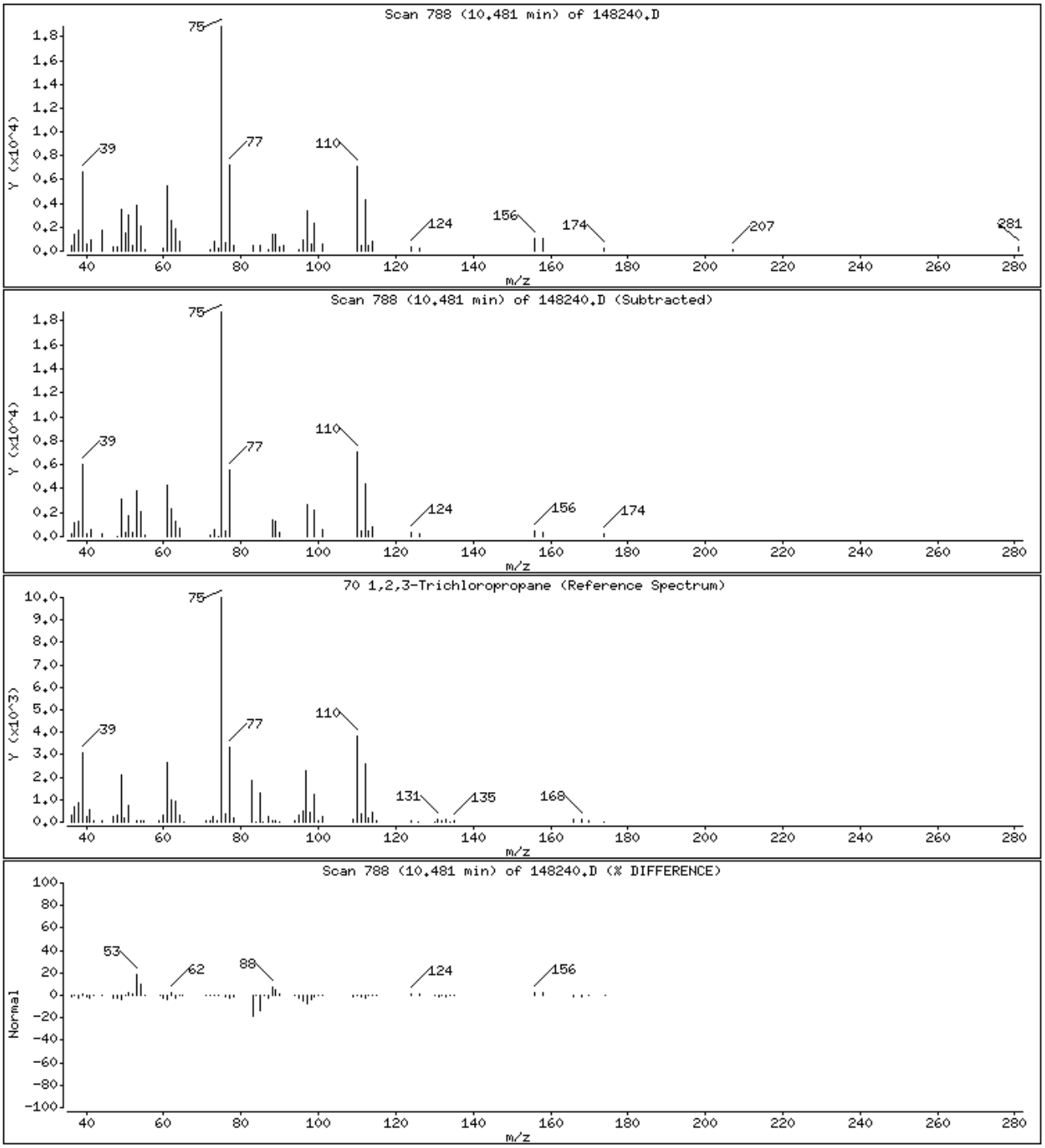
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

70 1,2,3-Trichloropropane Concentration: 6.097 UG/KG



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Date : 26-FEB-2010 21:17

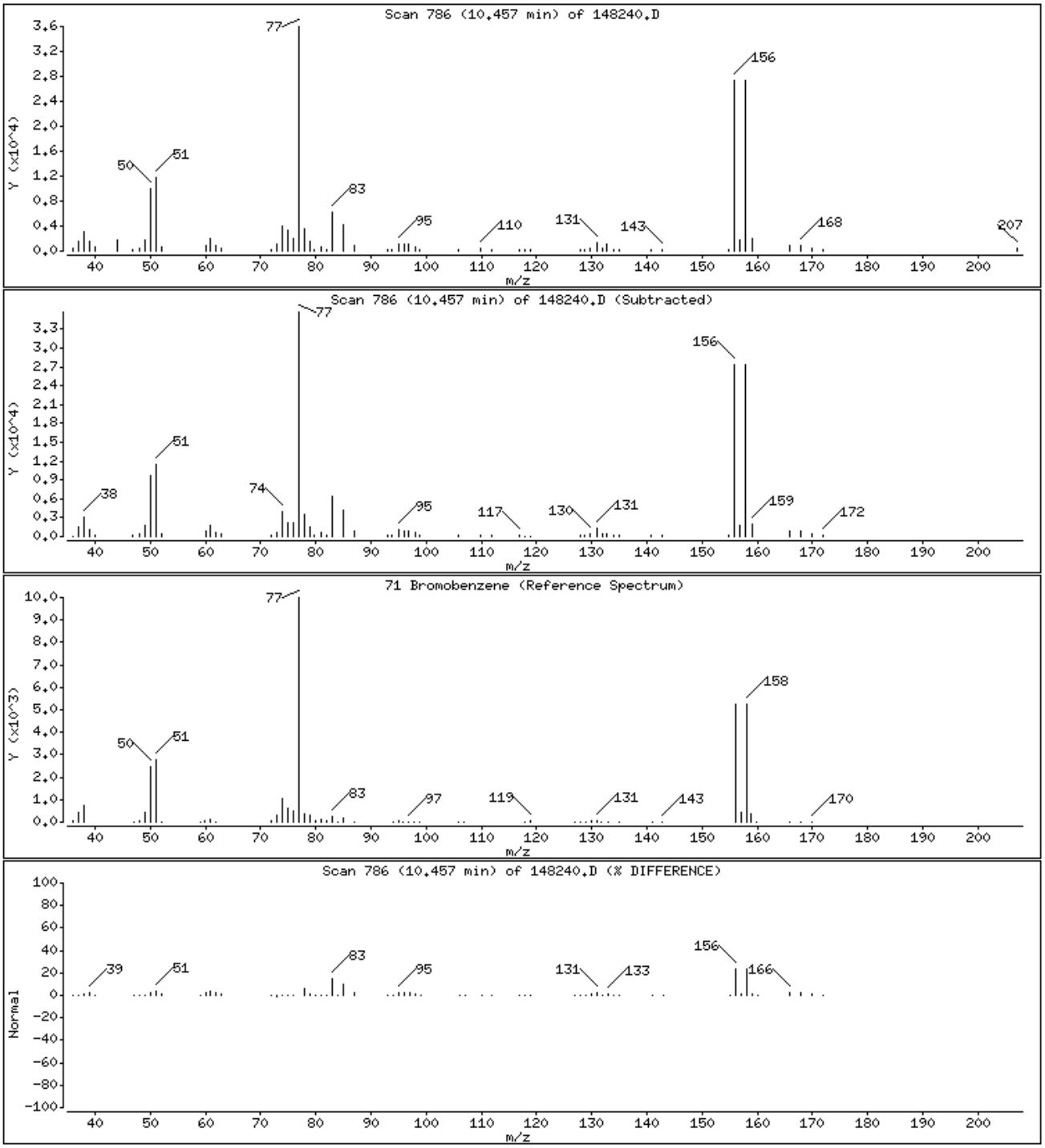
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

71 Bromobenzene Concentration: 5.485 UG/KG



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Date : 26-FEB-2010 21:17

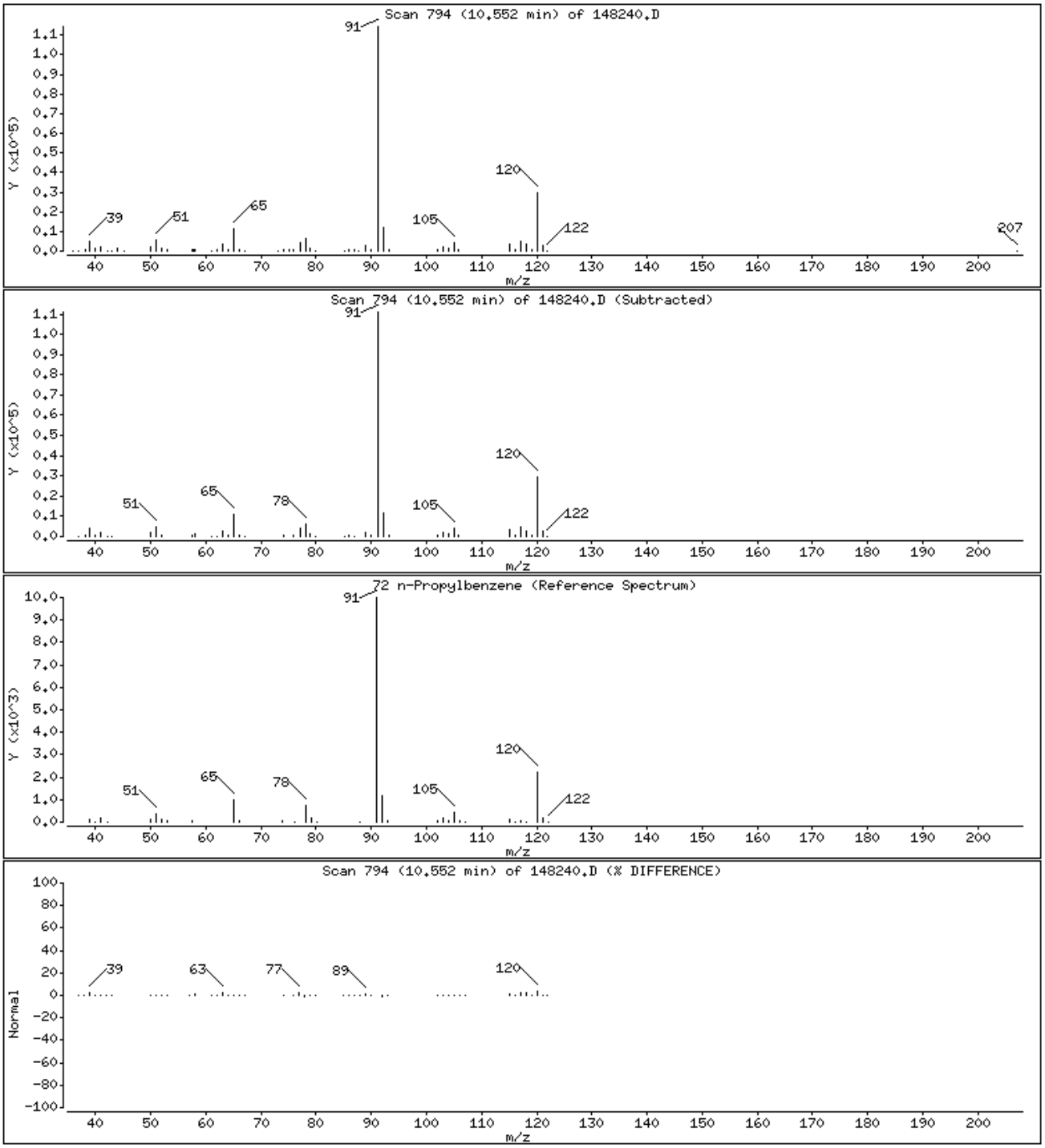
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

72 n-Propylbenzene Concentration: 5.017 UG/KG



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Date : 26-FEB-2010 21:17

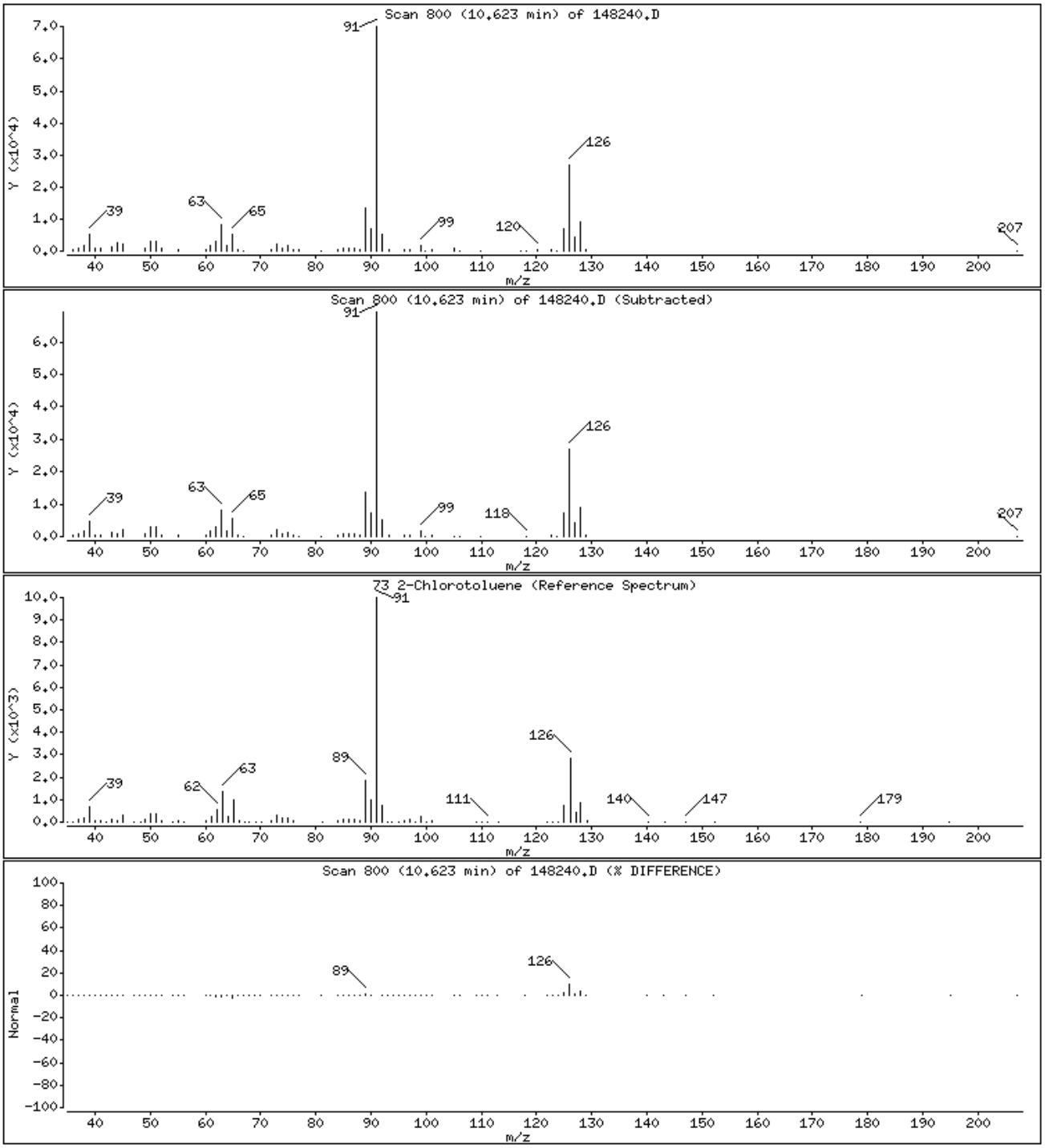
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

73 2-Chlorotoluene Concentration: 5.713 UG/KG



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Date : 26-FEB-2010 21:17

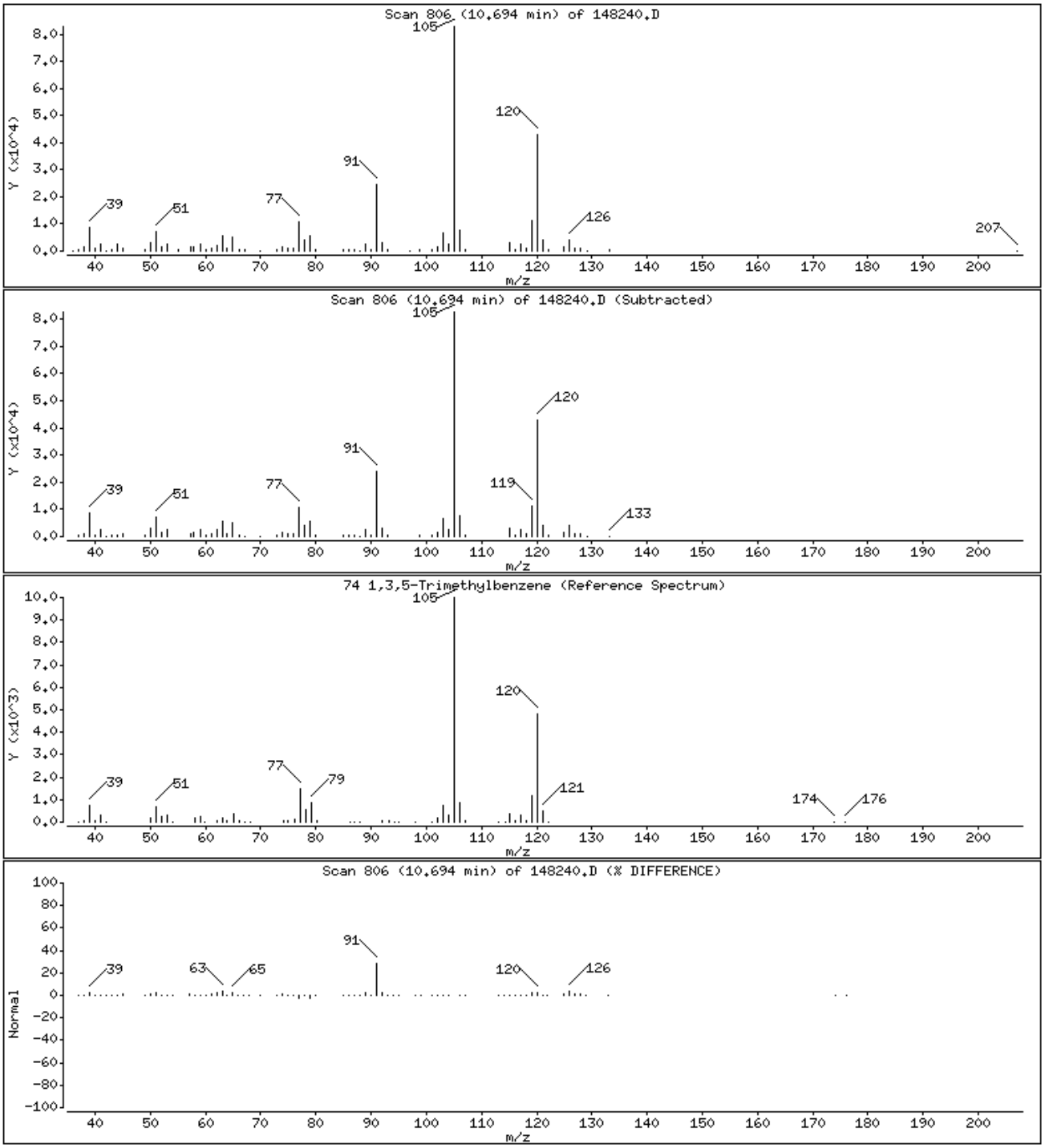
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

74 1,3,5-Trimethylbenzene Concentration: 4.896 UG/KG



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Date : 26-FEB-2010 21:17

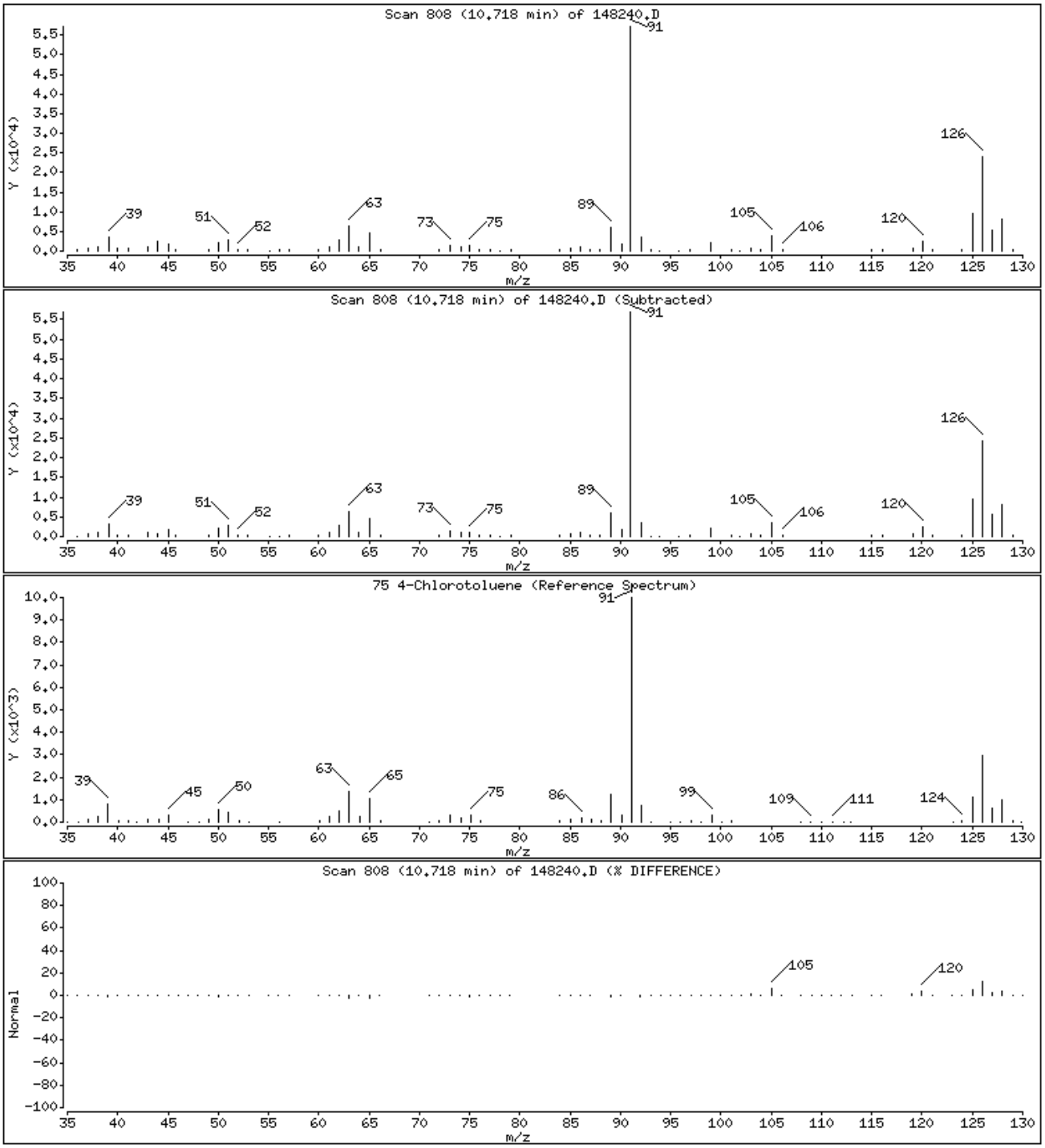
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

75 4-Chlorotoluene Concentration: 5.560 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

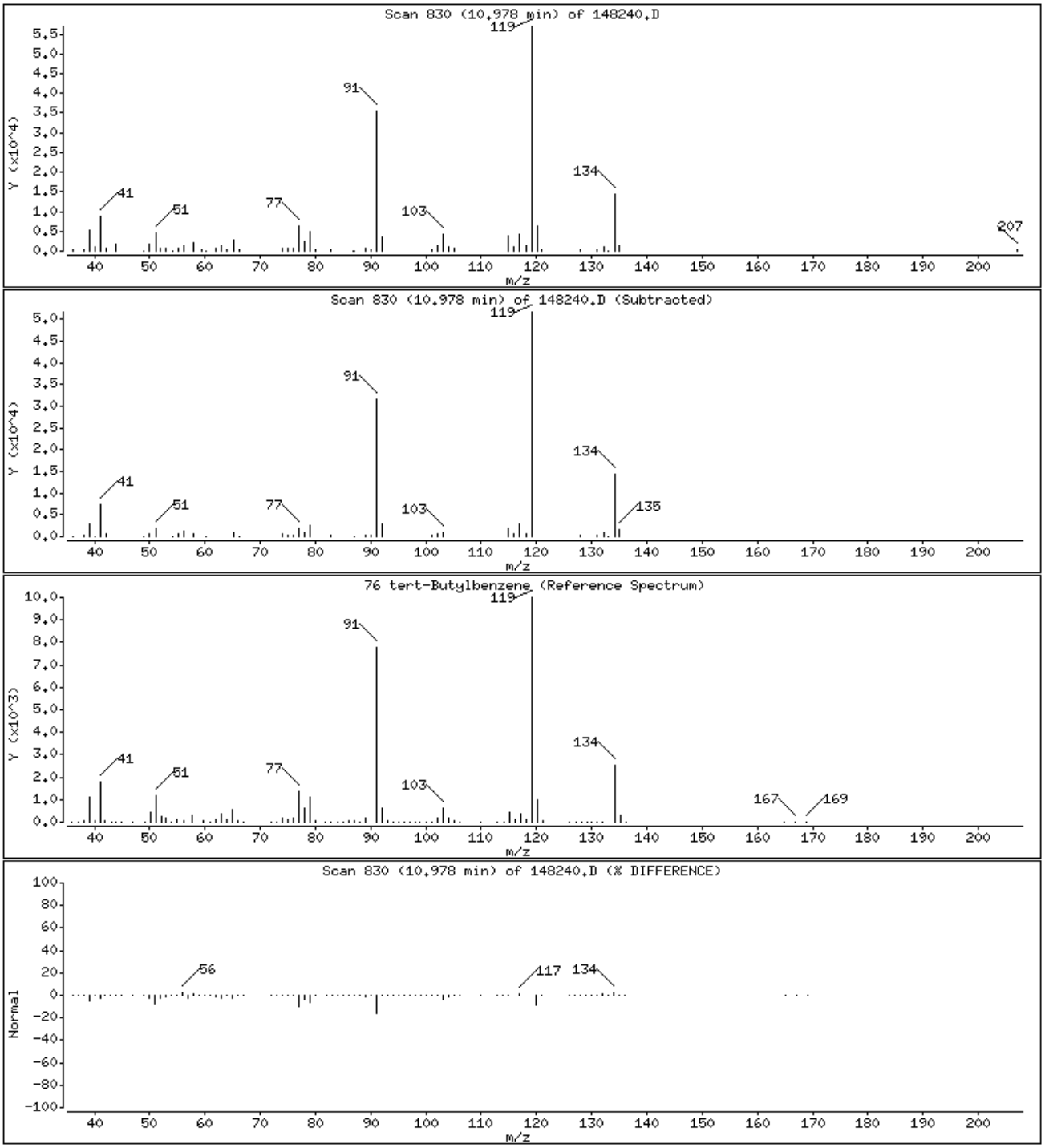
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

76 tert-Butylbenzene Concentration: 4.431 UG/KG



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Date : 26-FEB-2010 21:17

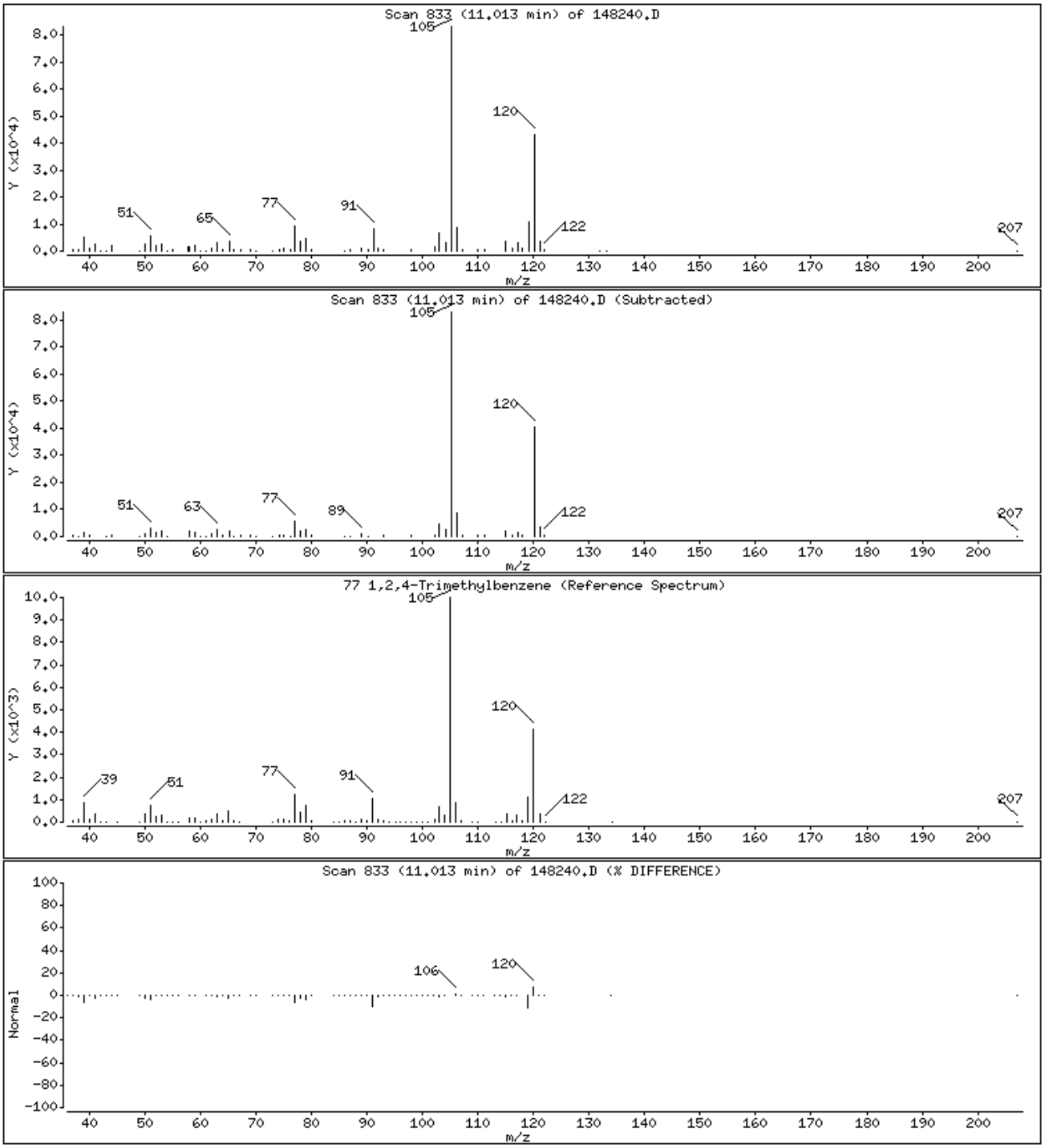
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

77 1,2,4-Trimethylbenzene Concentration: 4.763 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

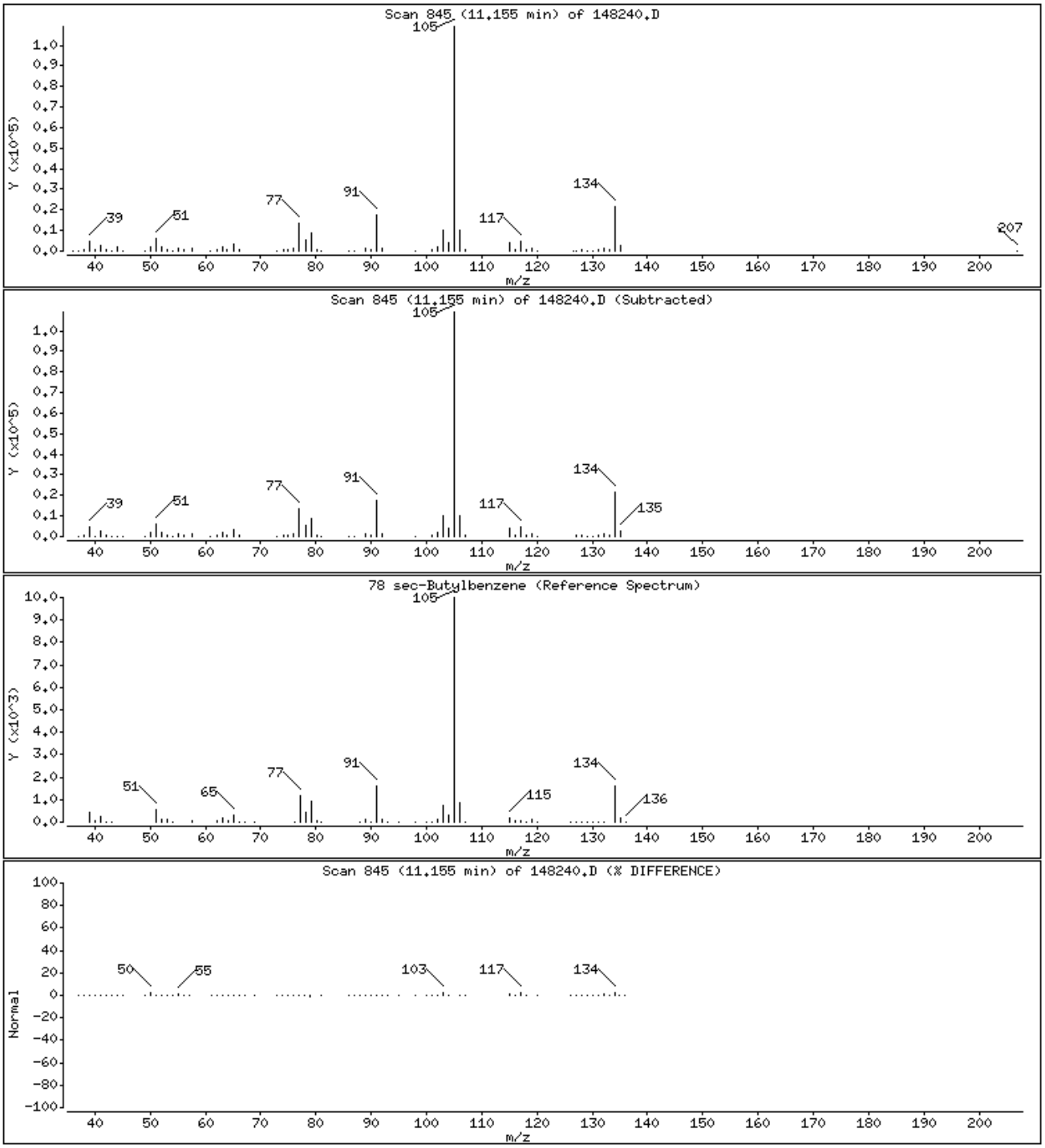
Operator: 2807

Column phase: DB624

Column diameter: 0.18

78 sec-Butylbenzene

Concentration: 4.805 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

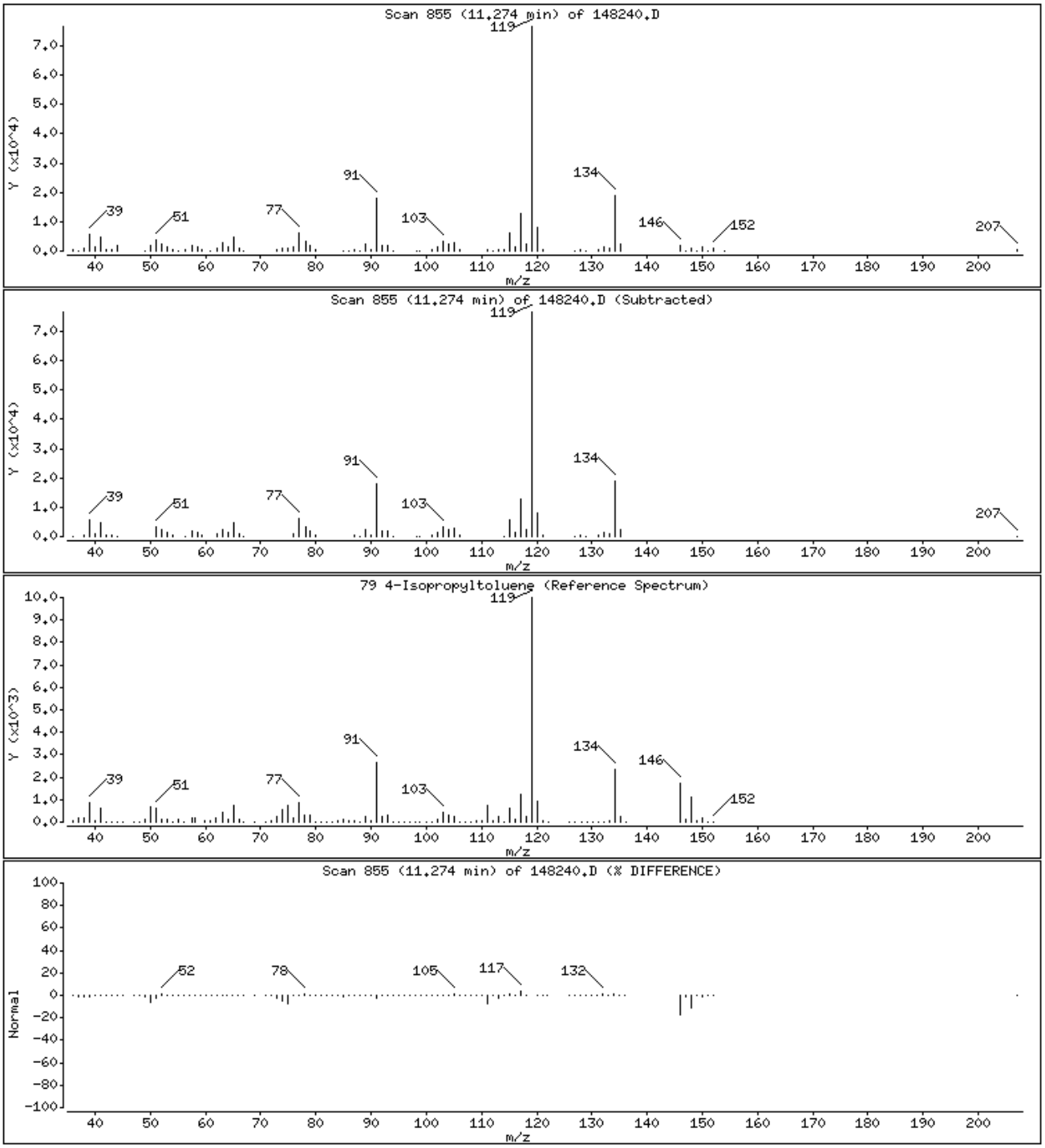
Operator: 2807

Column phase: DB624

Column diameter: 0.18

79 4-Isopropyltoluene

Concentration: 4.491 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D

Date : 26-FEB-2010 21:17

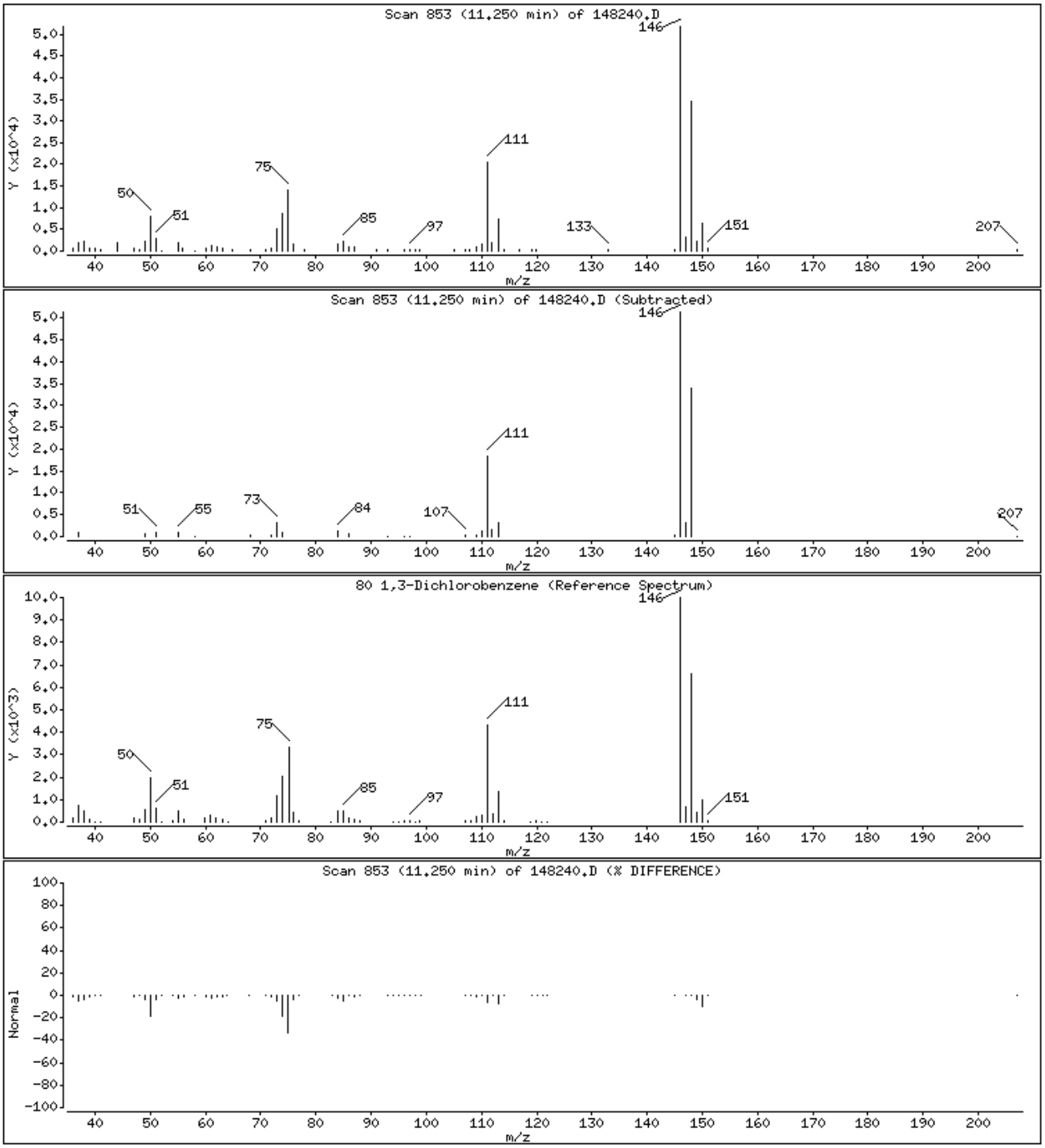
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

80 1,3-Dichlorobenzene Concentration: 5.362 UG/KG



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Date : 26-FEB-2010 21:17

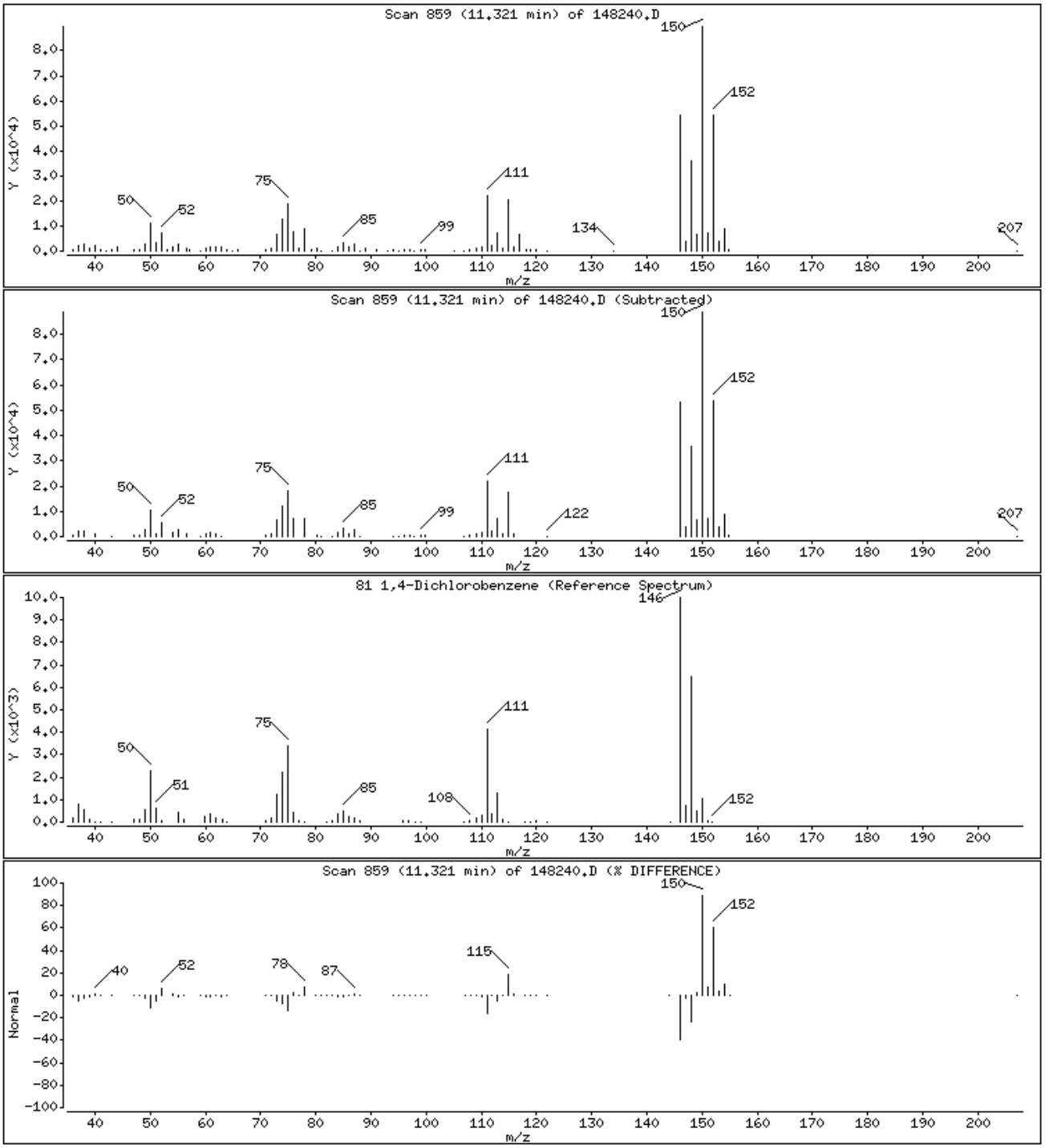
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

81 1,4-Dichlorobenzene Concentration: 5.363 UG/KG



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Date : 26-FEB-2010 21:17

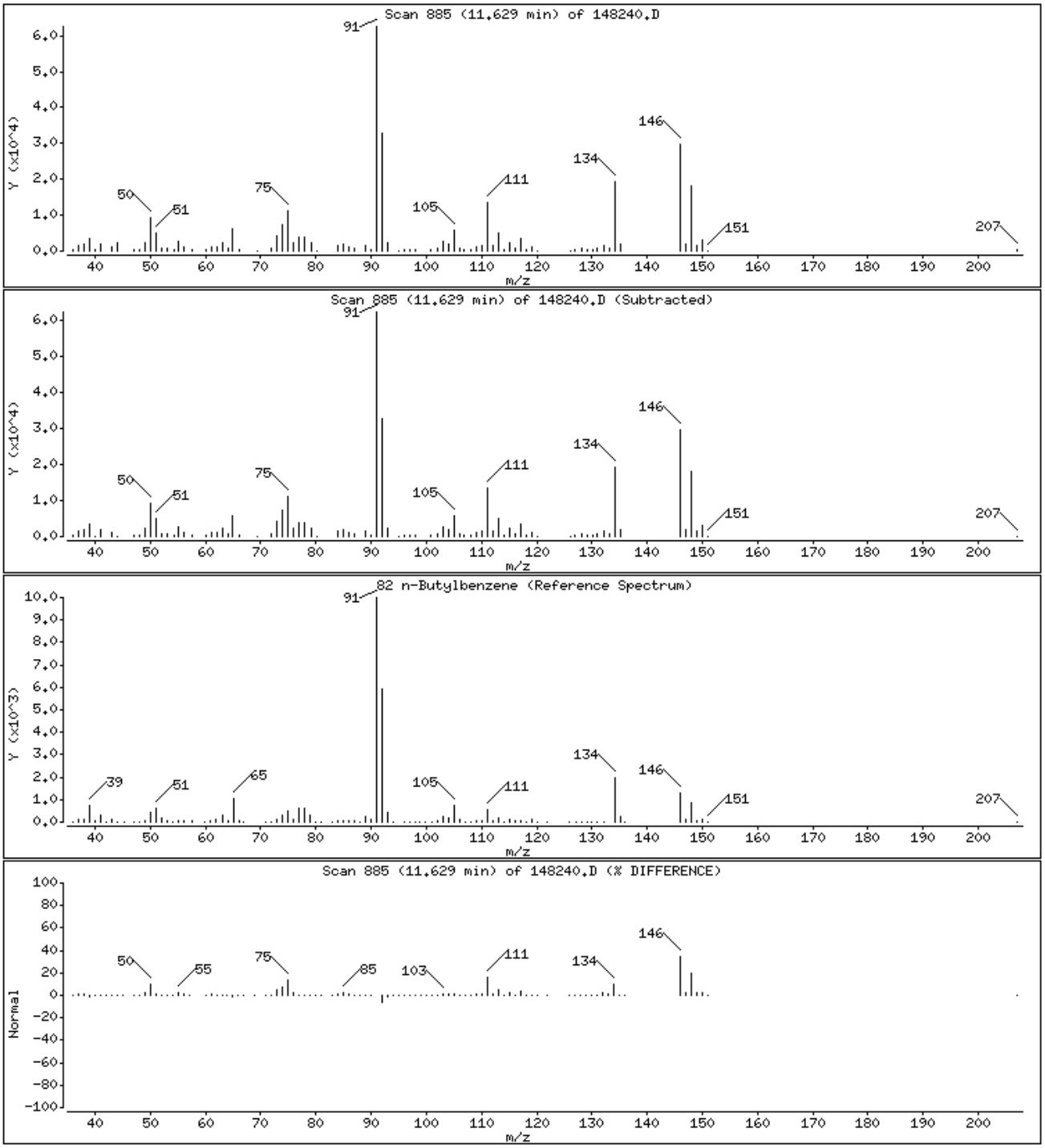
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

82 n-Butylbenzene Concentration: 4.521 UG/KG



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Date : 26-FEB-2010 21:17

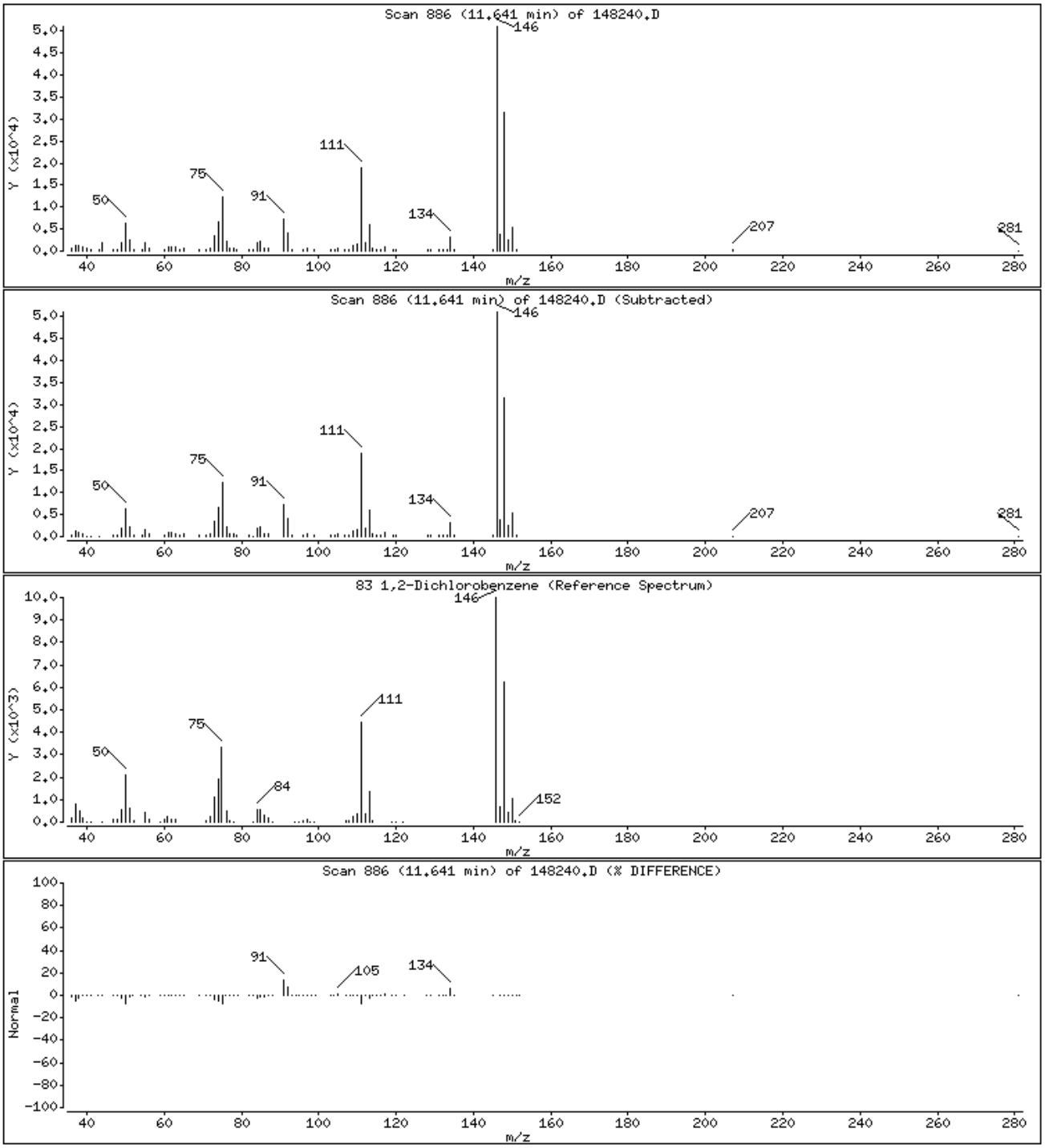
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

83 1,2-Dichlorobenzene Concentration: 5.452 UG/KG



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Date : 26-FEB-2010 21:17

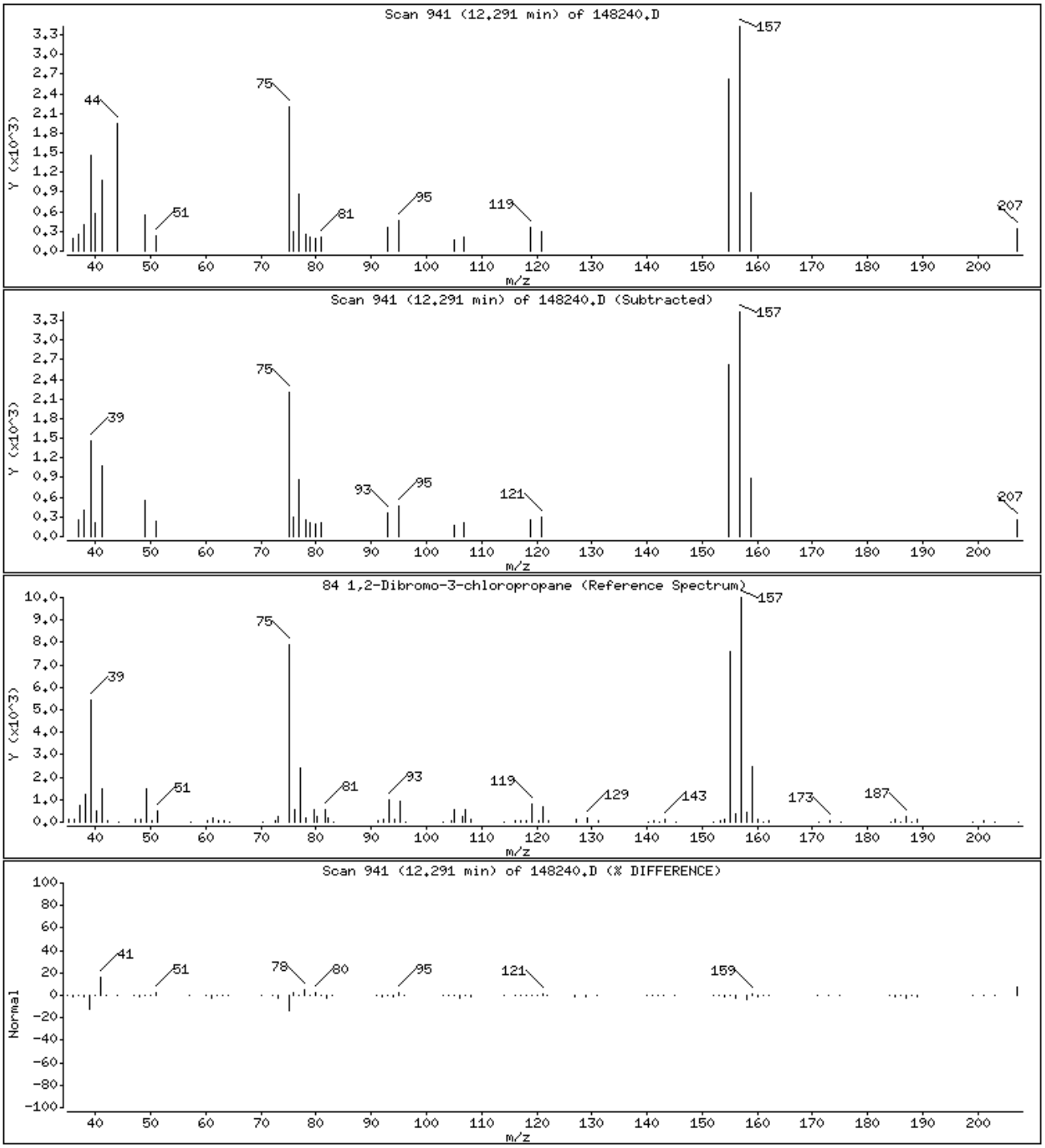
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

84 1,2-Dibromo-3-chloropropane Concentration: 4.342 UG/KG



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Date : 26-FEB-2010 21:17

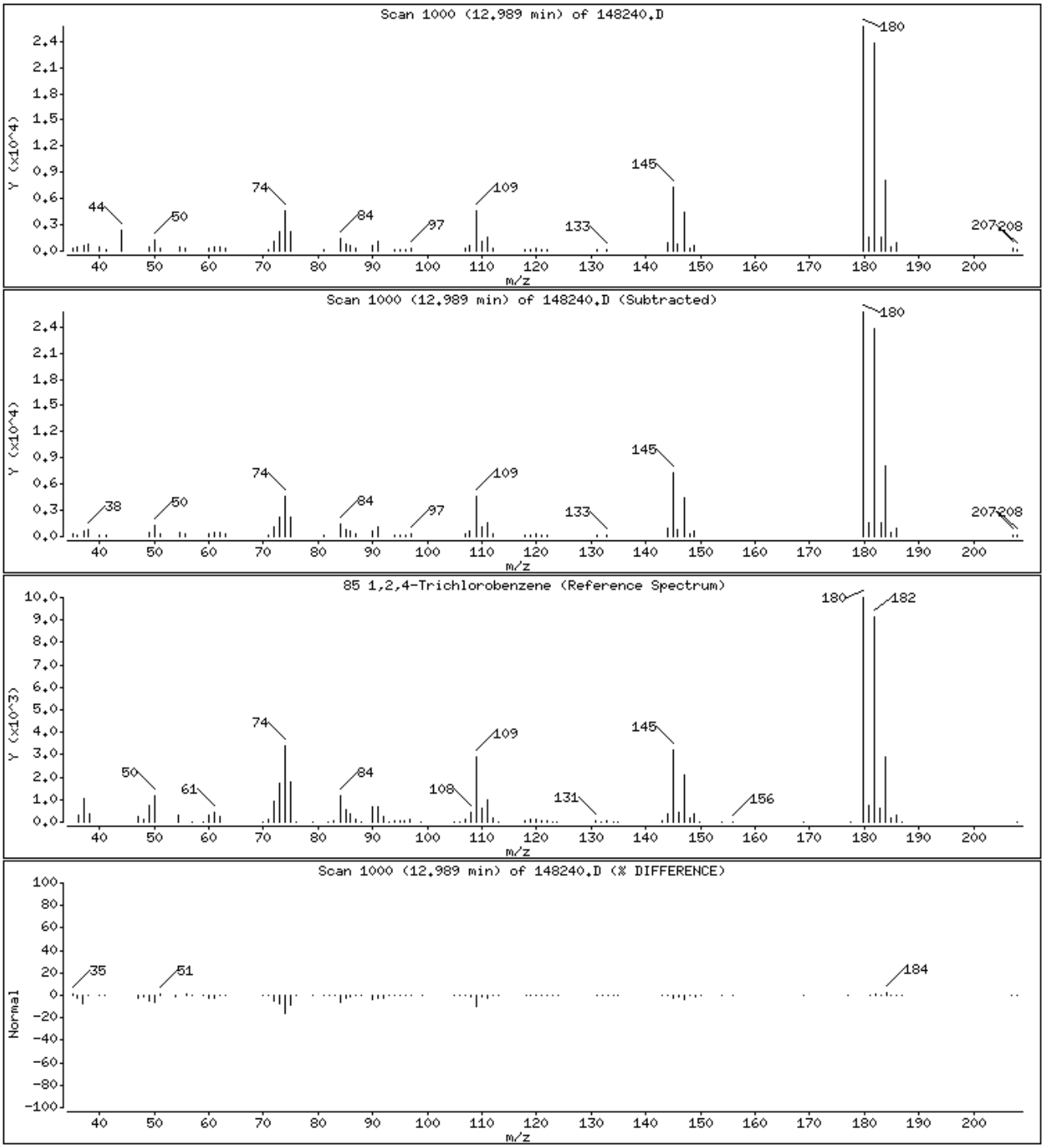
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

85 1,2,4-Trichlorobenzene Concentration: 4.496 UG/KG



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Date : 26-FEB-2010 21:17

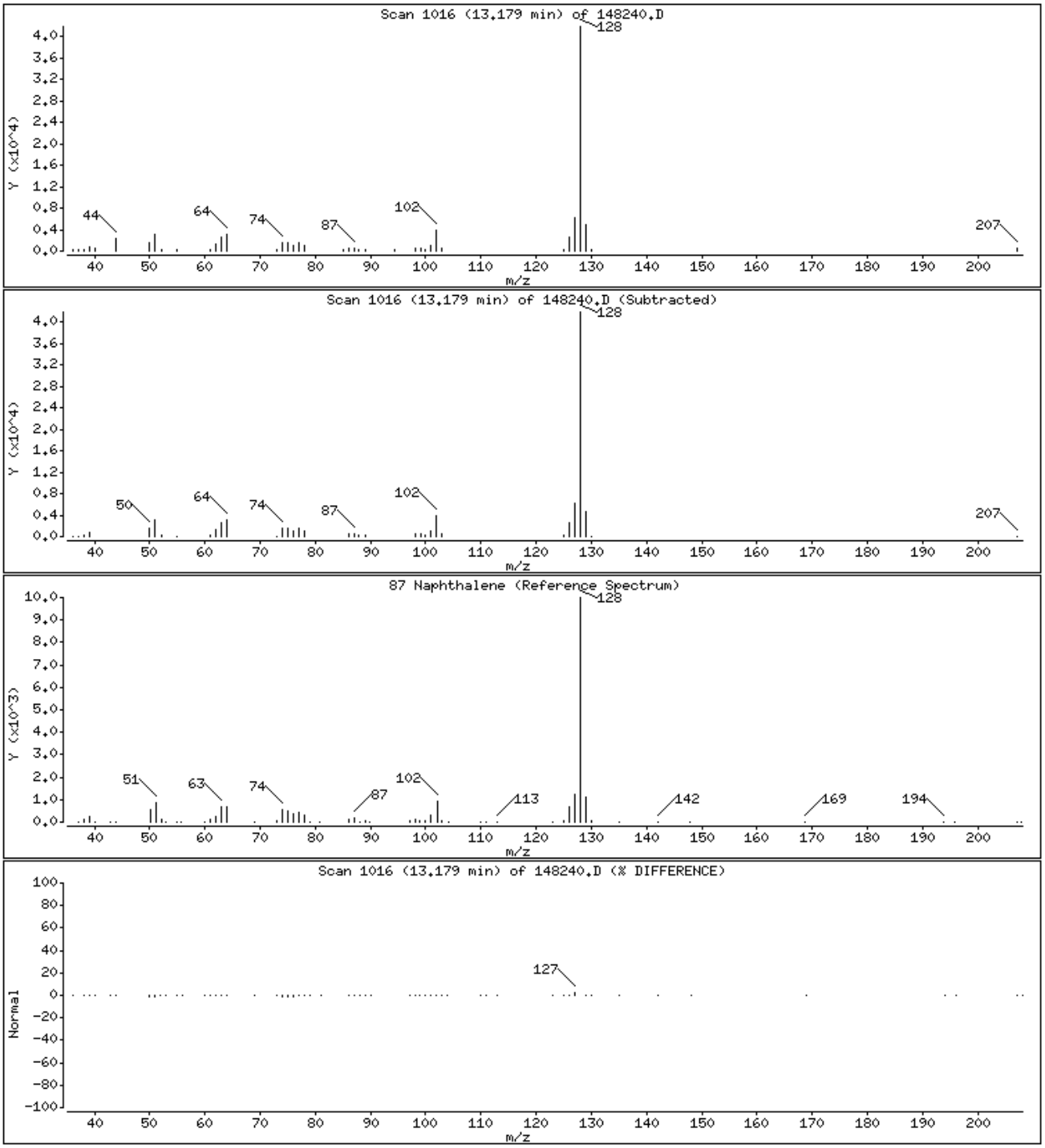
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

87 Naphthalene Concentration: 3.219 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

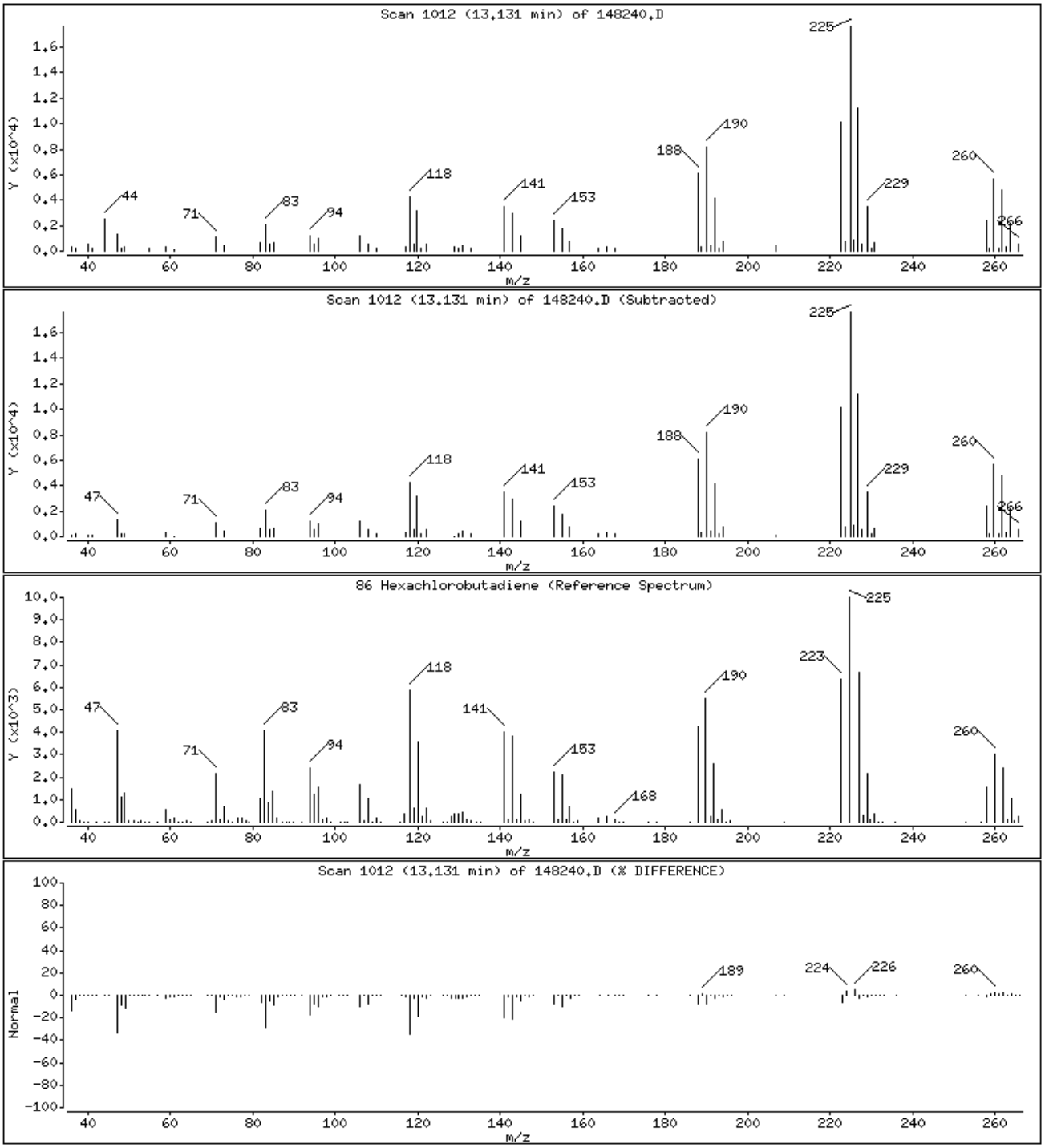
Operator: 2807

Column phase: DB624

Column diameter: 0.18

86 Hexachlorobutadiene

Concentration: 5.105 UG/KG



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Date : 26-FEB-2010 21:17

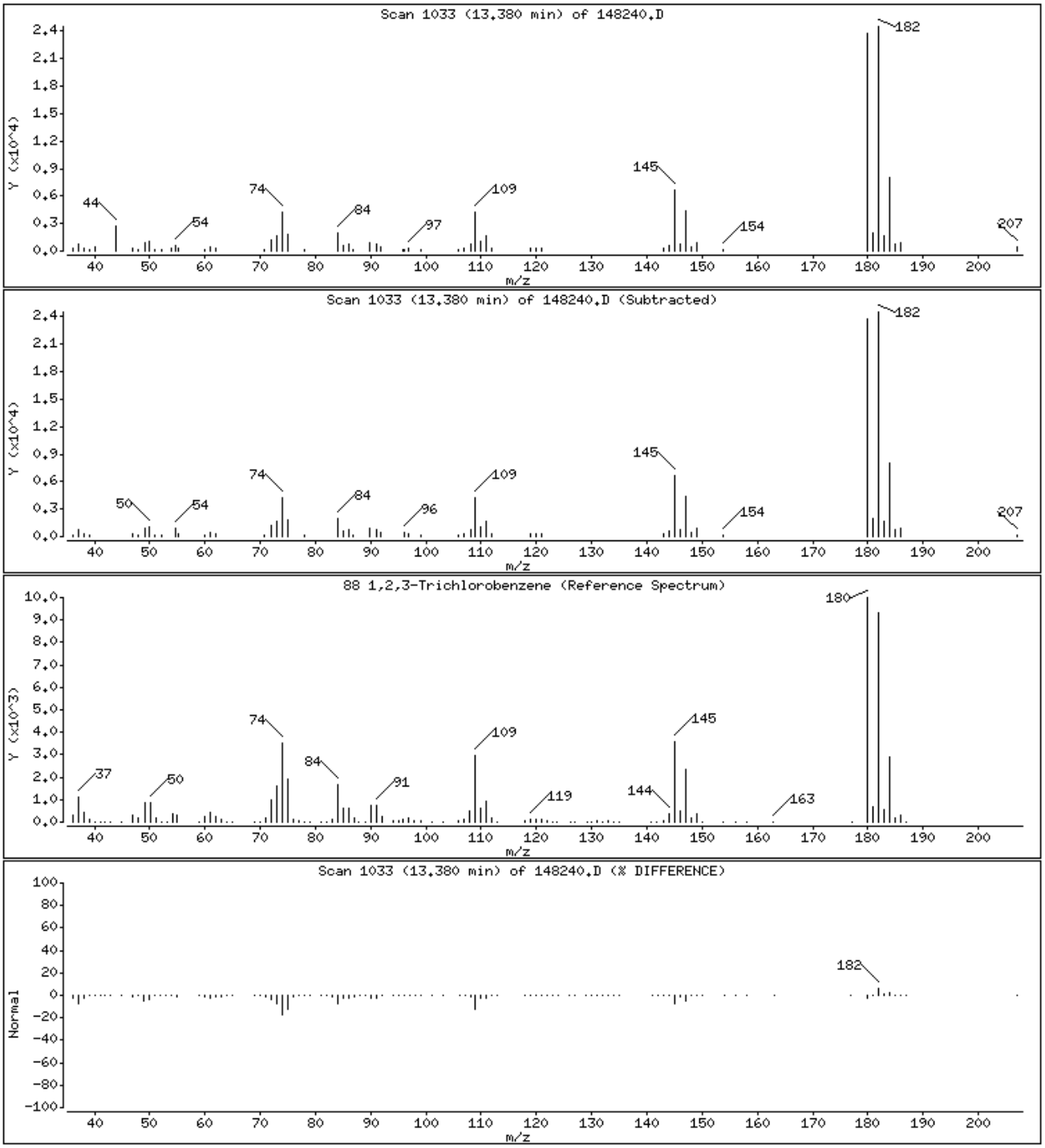
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

88 1,2,3-Trichlorobenzene Concentration: 4.504 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

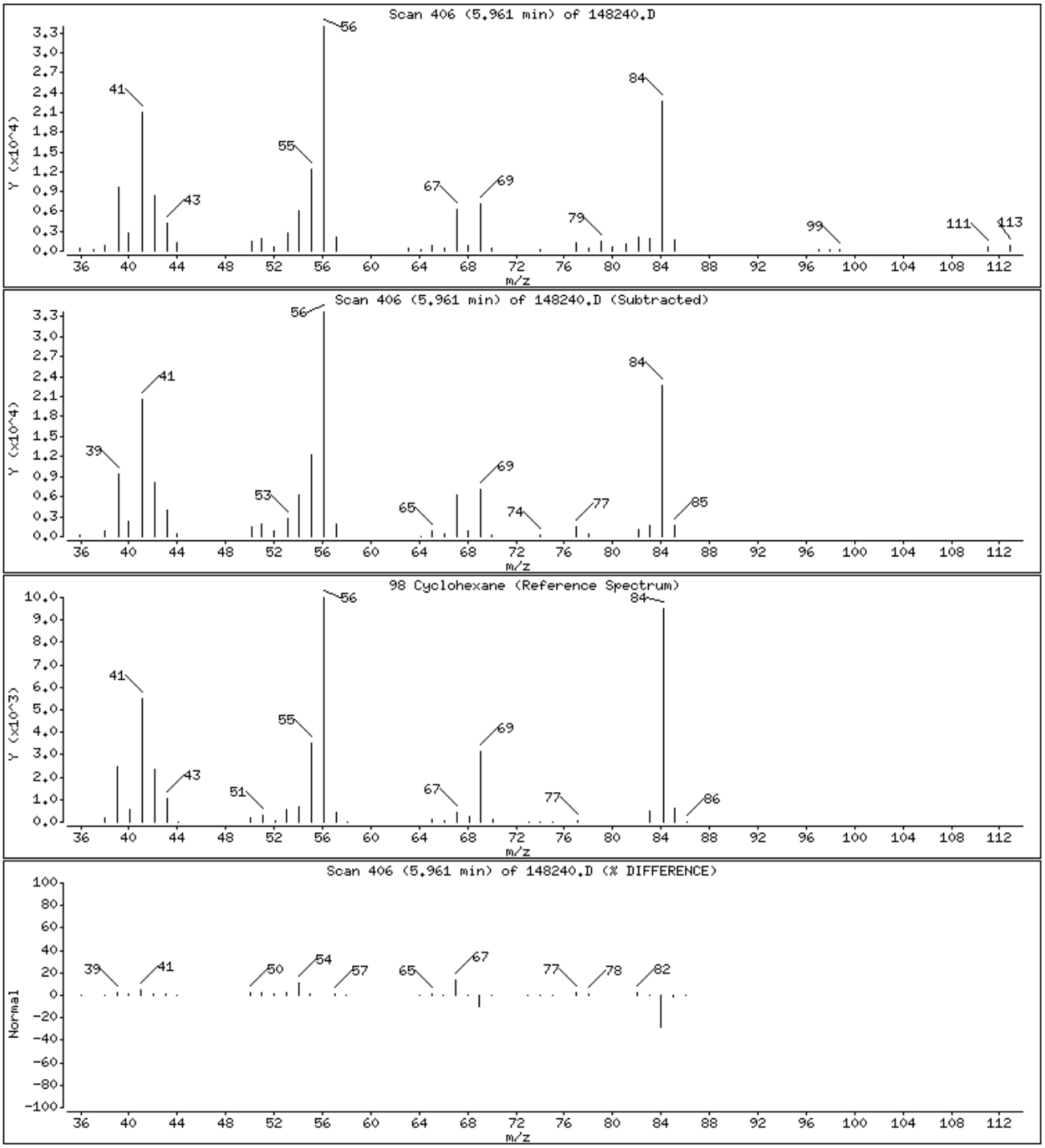
Operator: 2807

Column phase: DB624

Column diameter: 0.18

98 Cyclohexane

Concentration: 5.738 UG/KG



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Date : 26-FEB-2010 21:17

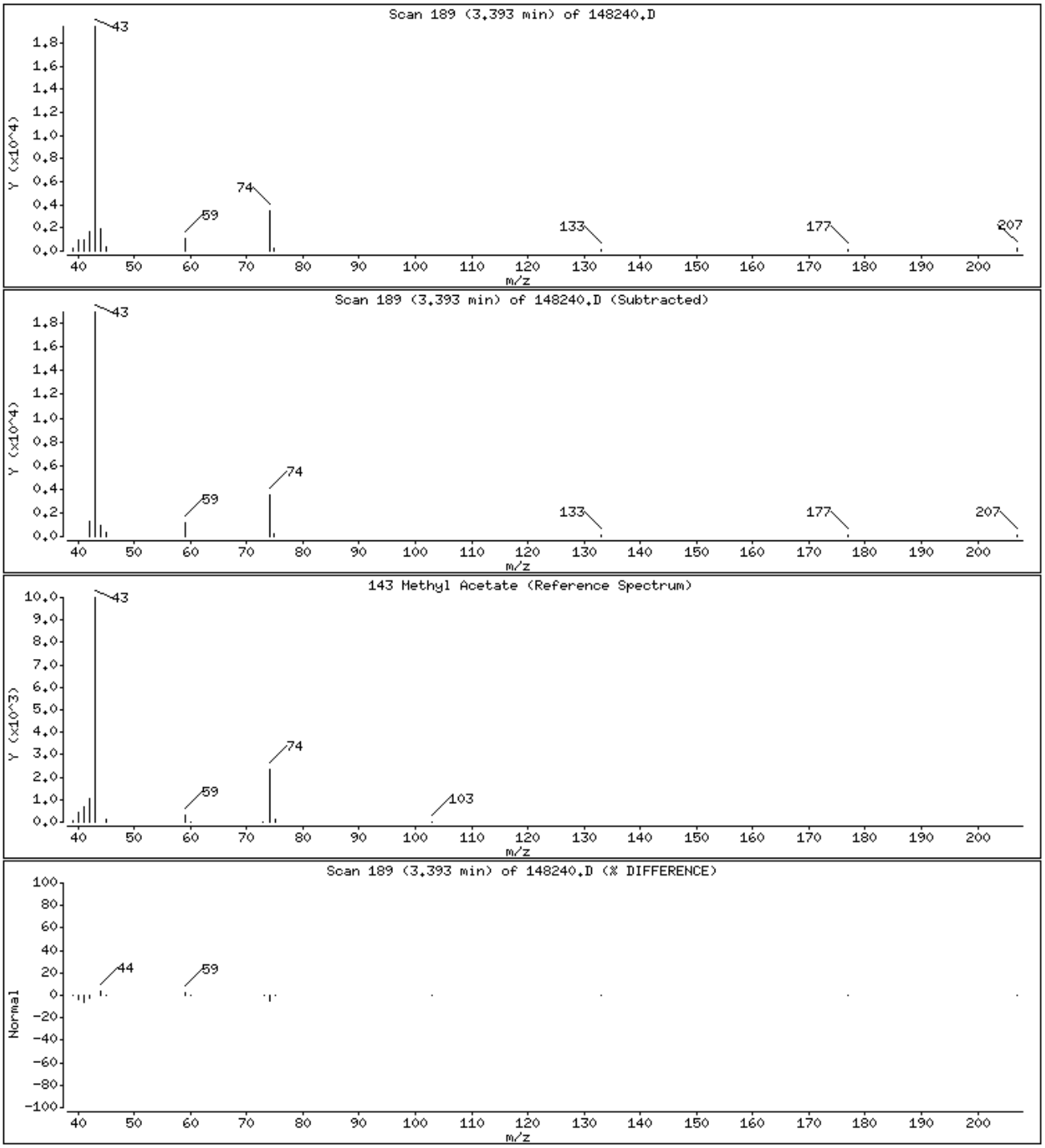
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

143 Methyl Acetate Concentration: 9.160 UG/KG



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Date : 26-FEB-2010 21:17

Client ID:

Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0

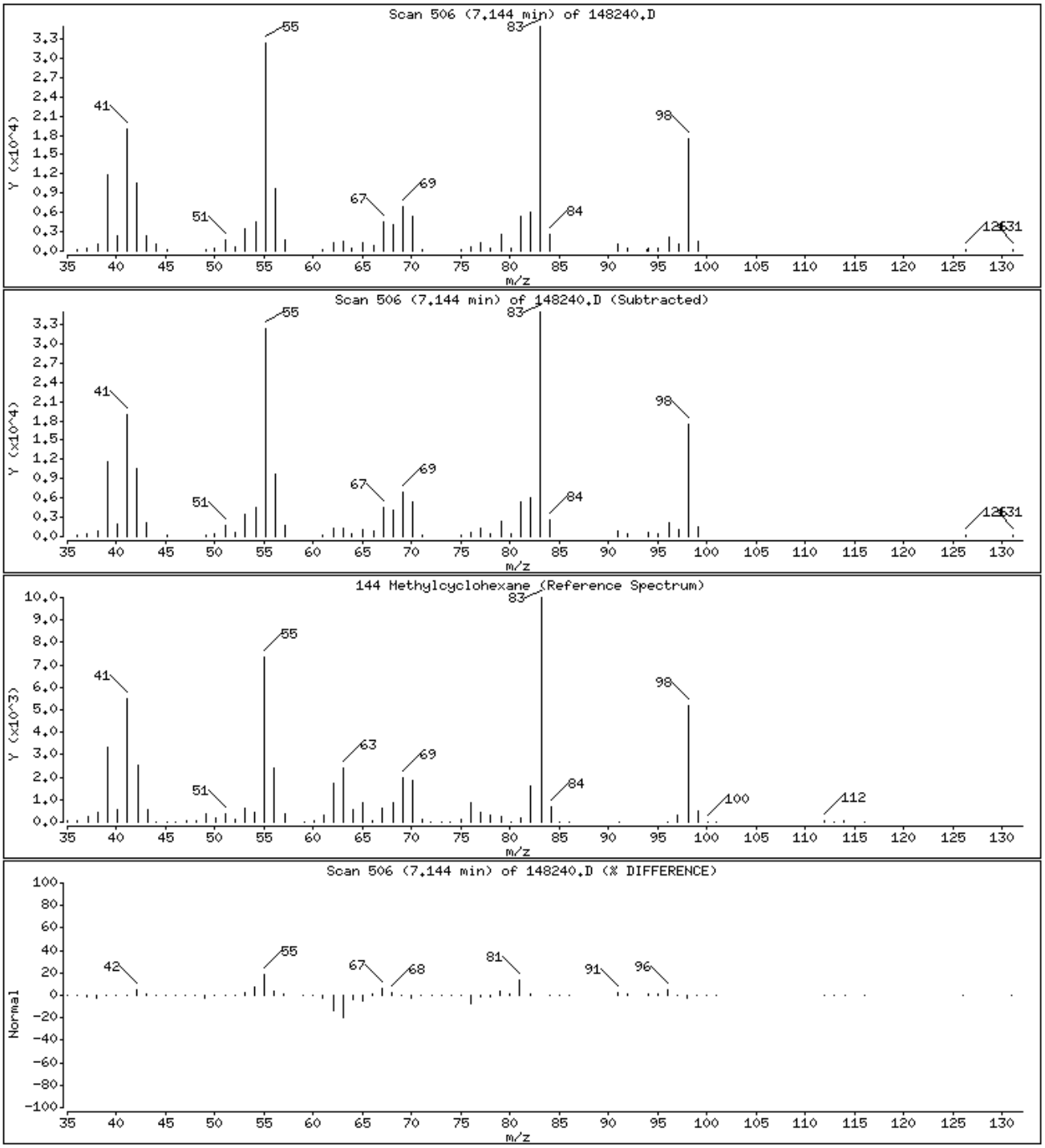
Operator: 2807

Column phase: DB624

Column diameter: 0.18

144 Methylcyclohexane

Concentration: 5.118 UG/KG



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Date : 26-FEB-2010 21:17

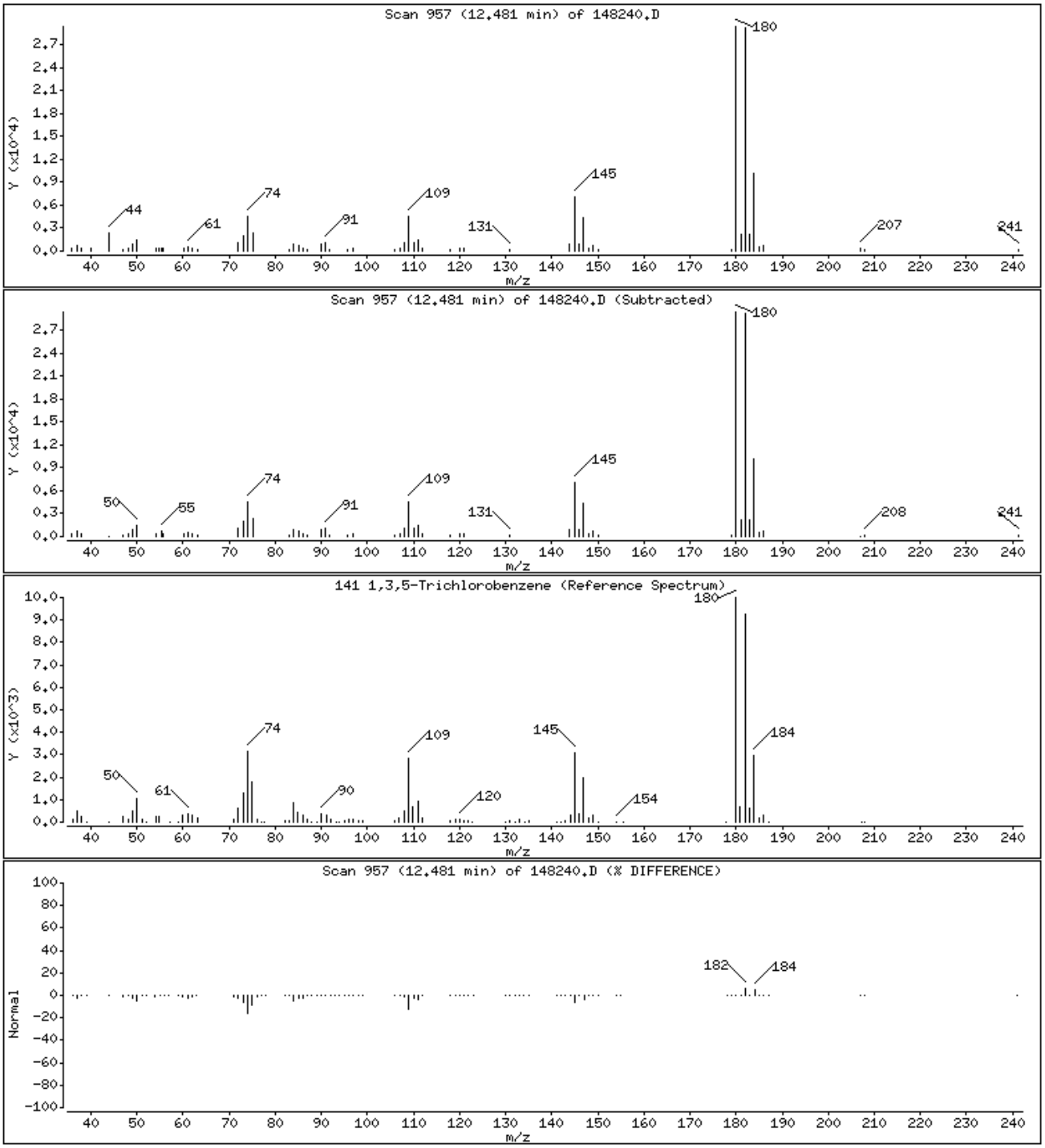
Client ID: Instrument: a3ux14.i

Sample Info: QCMRL

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

141 1,3,5-Trichlorobenzene Concentration: 5.066 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 01-Mar-2010 09:31

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Lab Smp Id: QCMDL
Inj Date : 26-FEB-2010 21:39
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMDL
Misc Info : R00226A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1135608	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.333	(1.000)	838221	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	464475	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	305273	244.002	48.800
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	315815	246.208	49.242
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1075573	236.695	47.339
$ 7 Bromofluorobenzene	95	10.326	10.327	(0.913)	424325	246.380	49.276
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	11799	10.2727	2.054
9 Chloromethane	50	1.452	1.452	(0.220)	15125	9.10864	1.822
10 Vinyl Chloride	62	1.570	1.570	(0.238)	12349	9.85968	1.972
11 Bromomethane	94	1.890	1.878	(0.286)	8534	13.9554	2.791
12 Chloroethane	64	1.996	1.996	(0.303)	7678	10.3951	2.079
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	9810	8.13302	1.627
15 Acrolein	56	2.742	2.730	(0.415)	23532	164.874	32.975
16 Acetone	43	2.931	2.931	(0.444)	44021	64.5979	12.920
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	10943	10.0858	2.017
18 Freon-113	151	2.895	2.896	(0.439)	9981	11.4544	2.291
19 Iodomethane	142	3.014	3.026	(0.457)	20115	10.8774	2.175
20 Carbon Disulfide	76	3.097	3.097	(0.469)	29014	9.33621	1.867
21 Methylene Chloride	84	3.511	3.499	(0.532)	32727	6.04668	1.209

22 Acetonitrile	41	3.298	3.286 (0.500)	19023	126.279	25.256
23 Acrylonitrile	53	3.889	3.890 (0.589)	7957	17.8029	3.560

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 01-Mar-2010 09:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	23977	8.50574	1.701
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	12245	9.71853	1.944
26	Hexane	86	4.398	4.387	(0.666)	2271	7.81047	1.562
27	Vinyl acetate	43	4.706	4.694	(0.713)	15810	10.8762	2.175
154	Vinyl Acetate**2nd**	86	4.706	4.694	(0.713)	1234	9.52752	1.906(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	21952	9.73667	1.947
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	17694	172.251	34.450
30	2-Butanone	43	5.392	5.380	(0.817)	17035	29.2735	5.855
M 31	1,2-Dichloroethene (total)	96				24445	19.1686	3.834
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	12200	9.45006	1.890
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	8583	9.72982	1.946
34	Bromochloromethane	128	5.605	5.605	(0.849)	6656	10.6075	2.121
35	Chloroform	83	5.723	5.724	(0.867)	20834	10.0811	2.016
36	Tetrahydrofuran	42	5.688	5.676	(0.862)	3435	9.11310	1.823
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	16305	10.9113	2.182
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	13996	8.93161	1.786
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	15872	12.2204	2.444
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	15581	10.1865	2.037
41	Benzene	78	6.303	6.303	(0.955)	45666	9.30349	1.861
42	Trichloroethene	130	6.966	6.966	(1.056)	13607	10.0583	2.012
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	10764	8.75344	1.751
44	1,4-Dioxane	88	7.321	7.309	(1.109)	3493	344.267	68.853
45	Dibromomethane	93	7.274	7.274	(1.102)	6186	9.87828	1.976
46	Bromodichloromethane	83	7.439	7.439	(1.127)	11571	9.11534	1.823
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	6336	20.0006	4.000
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	11098	7.10844	1.422
49	4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	16272	16.0751	3.215
50	Toluene	91	8.137	8.138	(0.872)	52806	10.6660	2.133
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.893)	10218	7.85314	1.571
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	7405	10.0622	2.012
53	1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	9515	10.7735	2.155
54	1,3-Dichloropropane	76	8.634	8.635	(0.925)	12824	8.66682	1.733
55	Tetrachloroethene	164	8.622	8.623	(0.924)	11257	10.7699	2.154
56	2-Hexanone	43	8.717	8.717	(0.934)	15453	22.1587	4.432
57	Dibromochloromethane	129	8.835	8.836	(0.947)	7785	8.44457	1.689
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	8144	9.55060	1.910
59	Chlorobenzene	112	9.356	9.356	(1.003)	33598	9.87311	1.975
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	10269	9.51467	1.903
61	Ethylbenzene	106	9.451	9.451	(1.013)	16172	9.22023	1.844
62	m + p-Xylene	106	9.557	9.557	(1.024)	36156	17.0389	3.408
M 63	Xylenes (total)	106				52735	25.3309	5.066
64	Xylene-o	106	9.889	9.889	(1.060)	16579	8.29205	1.658
65	Styrene	104	9.900	9.901	(1.061)	23004	7.23817	1.448
66	Bromoform	173	10.054	10.054	(1.077)	4676	8.37763	1.676
67	Isopropylbenzene	105	10.196	10.196	(1.093)	43024	8.01803	1.604
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	11964	10.5006	2.100
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	3420	9.67466	1.935
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	3206	9.70957	1.942
71	Bromobenzene	156	10.457	10.457	(0.925)	13666	9.99297	1.998
72	n-Propylbenzene	120	10.551	10.551	(0.933)	12958	8.14935	1.630
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	12782	9.88096	1.976
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	35965	8.16672	1.633

75	4-Chlorotoluene	126	10.705	10.717 (0.947)	12620	9.23944	1.848
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	32016	7.85129	1.570

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 01-Mar-2010 09:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	37148	8.26392	1.653
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	47032	8.01990	1.604
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	37789	7.58178	1.516
80	1,3-Dichlorobenzene	146	11.249	11.250	(0.995)	25761	9.92145	1.984
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	28088	10.1970	2.039
82	n-Butylbenzene	91	11.616	11.616	(1.027)	34763	8.03819	1.608
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	24548	10.0979	2.020
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	1865	9.48480	1.897
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	14447	9.18337	1.837
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	10259	10.1730	2.035
87	Naphthalene	128	13.178	13.178	(1.165)	25556	7.05852	1.412
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	14402	9.29364	1.859
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	762	11.9968	2.399
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	20936	7.85263	1.570
143	Methyl Acetate	43	3.404	3.393	(0.516)	19245	17.4371	3.487
144	Methylcyclohexane	83	7.143	7.144	(1.082)	17277	7.57921	1.516
141	1,3,5-Trichlorobenzene	180	12.468	12.480	(1.103)	18937	10.2086	2.042
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	4326	0.98494	0.1970(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 01-Mar-2010 09:31

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

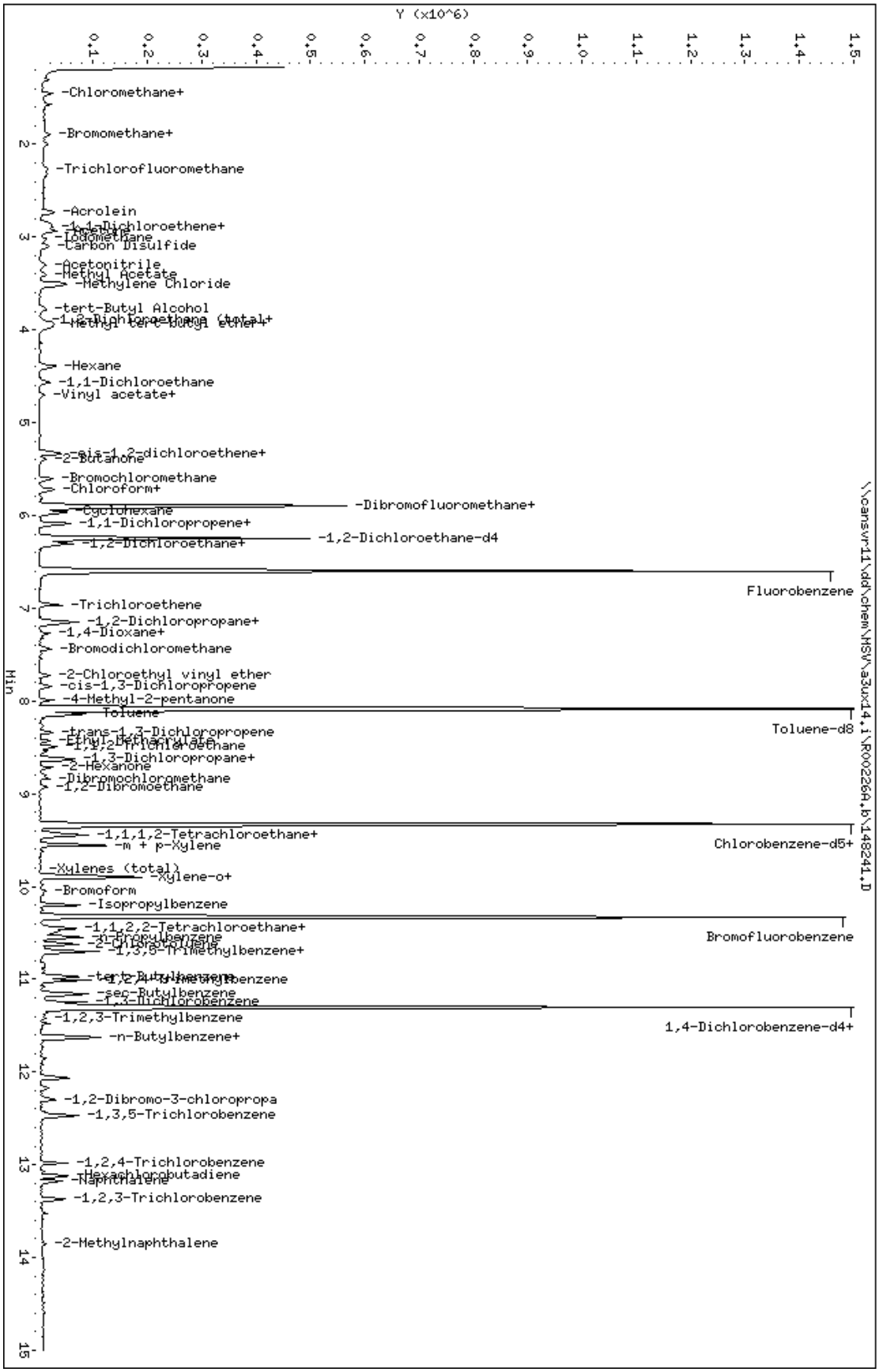
Instrument ID: a3ux14.i
Lab File ID: 148241.D
Lab Smp Id: QCMDL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1135608	-13.45
2 Chlorobenzene-d5	965181	482591	1930362	838221	-13.15
3 1,4-Dichlorobenze	531218	265609	1062436	464475	-12.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Date : 26-FEB-2010 21:39
Client ID:
Sample Info: QCMDL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Y (x10^6)
Min
-Chloromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-trans-1,2-Dichloroethene (total)+
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-1,2-Dichloroethane-d4
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
Bromofluorobenzene
-1,2,3-Trimethylbenzene
-n-Butylbenzene+
1,4-Dichlorobenzene-d4+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

TestAmerica North Canton

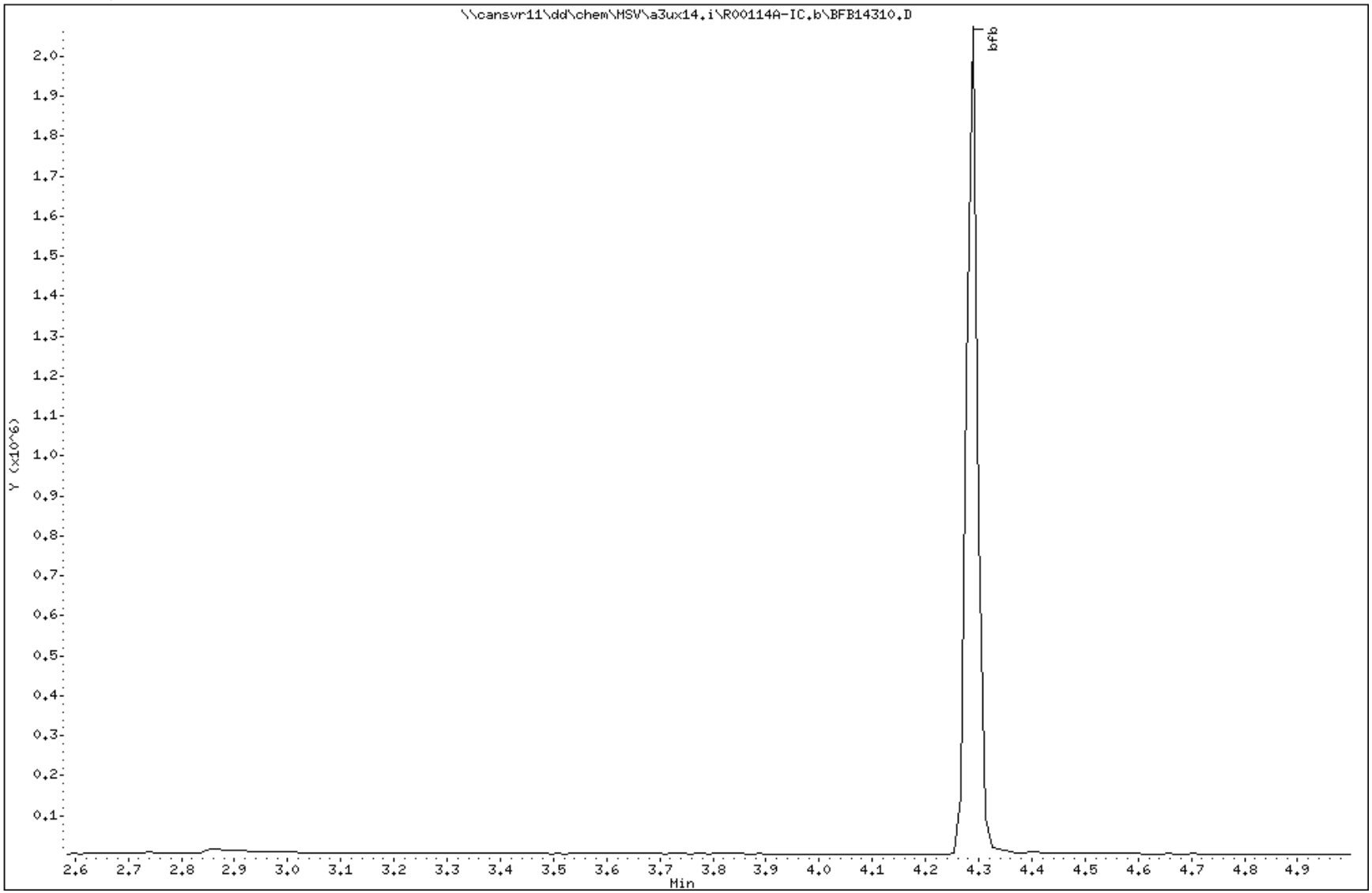
Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFB14310.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 14-JAN-2010 10:00
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : R00114A-IC,BFBSUX14,,2807
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFBSUX14.m
Meth Date : 28-May-2008 09:44 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	MASS	RESPONSE				
1 bfb						CAS #: 460-00-4		
4.289	4.118	0.171	95	292544			100.00- 100.00	100.00
4.289	4.118	0.171	50	53352			15.00- 40.00	18.24
4.289	4.118	0.171	75	130200			30.00- 60.00	44.51
4.289	4.118	0.171	96	19416			5.00- 9.00	6.64
4.289	4.118	0.171	173	580			0.00- 2.00	0.23
4.289	4.118	0.171	174	248000			50.00- 120.00	84.77
4.289	4.118	0.171	175	17632			5.00- 9.00	7.11
4.289	4.118	0.171	176	239040			95.00- 101.00	96.39
4.289	4.118	0.171	177	15716			5.00- 9.00	6.57

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFB14310.D Page 1
Date : 14-JAN-2010 10:00
Client ID: 50NGBFB Instrument: a3ux14.i
Sample Info: 50NG INJECTION OF BFB
Operator: 2807
Column phase: DB624 20m Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFB14310.D Page 2

Date : 14-JAN-2010 10:00

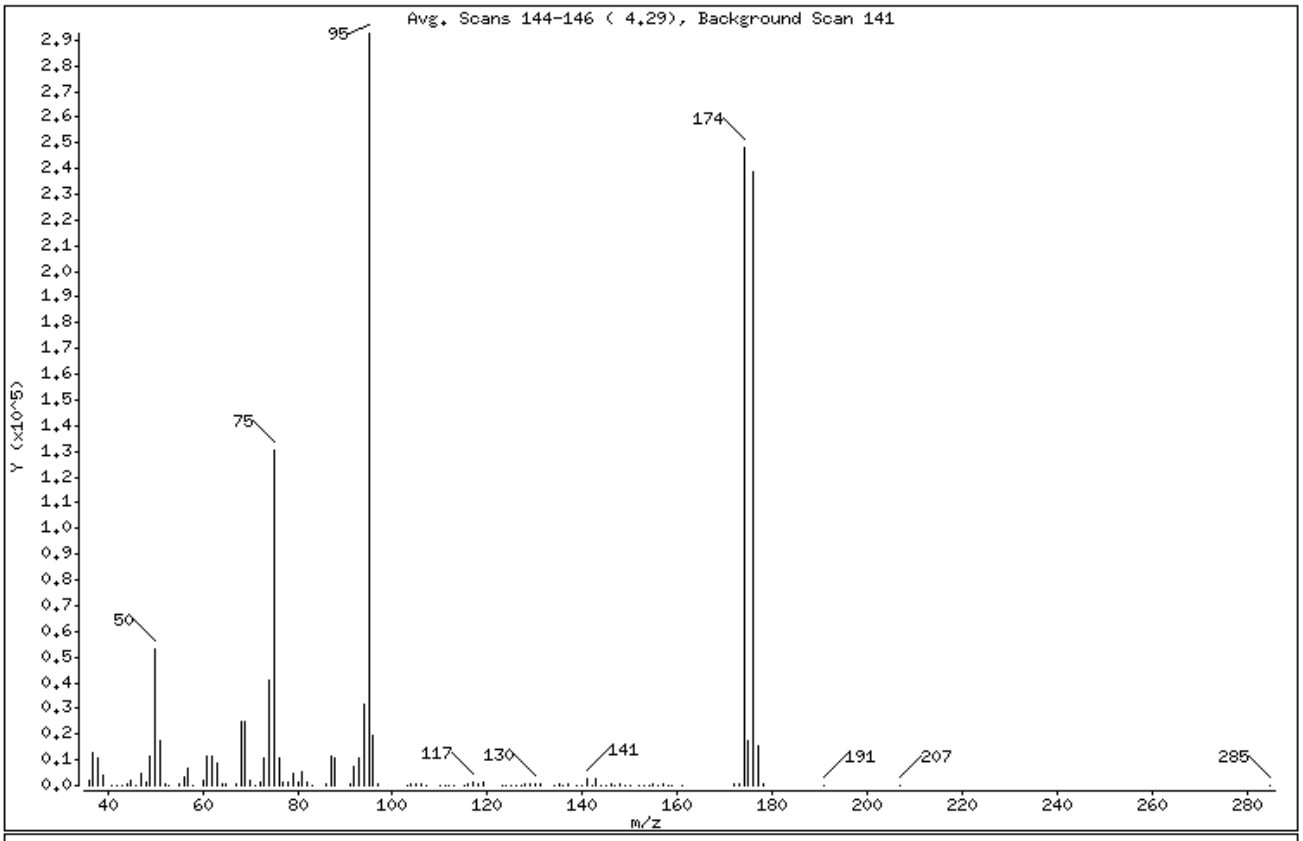
Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.24
75	30.00 - 60.00% of mass 95	44.51
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.20 (0.23)
174	50.00 - 120.00% of mass 95	84.77
175	5.00 - 9.00% of mass 174	6.03 (7.11)
176	95.00 - 101.00% of mass 174	81.71 (96.39)
177	5.00 - 9.00% of mass 176	5.37 (6.57)

Date : 14-JAN-2010 10:00

Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

Data File: BFB14310.D
Spectrum: Avg. Scans 144-146 (4.29), Background Scan 141
Location of Maximum: 95.00
Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2026	69.00	25128	107.00	245	145.00	229
37.00	12651	70.00	1747	110.00	201	146.00	346
38.00	10885	71.00	140	111.00	55	147.00	237
39.00	4160	72.00	1152	112.00	60	148.00	648
41.00	106	73.00	10976	113.00	99	149.00	219
42.00	51	74.00	40944	115.00	220	150.00	234
43.00	113	75.00	130200	116.00	833	152.00	156
44.00	859	76.00	10628	117.00	1501	153.00	165
45.00	2194	77.00	1664	118.00	871	154.00	184
46.00	251	78.00	1032	119.00	1311	155.00	698
47.00	4631	79.00	4699	123.00	50	156.00	146
48.00	1595	80.00	1399	124.00	126	157.00	453
49.00	11357	81.00	5329	125.00	51	158.00	72
50.00	53352	82.00	1164	126.00	57	159.00	307
51.00	17720	83.00	142	127.00	53	161.00	299
52.00	644	86.00	415	128.00	838	172.00	753
53.00	60	87.00	11643	129.00	432	173.00	580
55.00	635	88.00	10581	130.00	906	174.00	248000
56.00	3687	91.00	797	131.00	341	175.00	17632
57.00	6493	92.00	7572	134.00	53	176.00	239040
58.00	264	93.00	10628	135.00	386	177.00	15716
60.00	2205	94.00	31352	136.00	148	178.00	617
61.00	11720	95.00	292544	137.00	451	191.00	112
62.00	11556	96.00	19416	139.00	148	207.00	214
63.00	8408	97.00	565	140.00	123	285.00	52
64.00	780	103.00	116	141.00	2571		
65.00	373	104.00	966	142.00	282		
67.00	557	105.00	342	143.00	2567		
68.00	25072	106.00	912	144.00	160		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFB14339.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 26-FEB-2010 10:48
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : R00226A,BFBSUX14,,2807
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFBSUX14.m
Meth Date : 28-May-2008 09:44 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.288	4.118	0.170	95	192320			100.00- 100.00	100.00
4.288	4.118	0.170	50	34376			15.00- 40.00	17.87
4.288	4.118	0.170	75	84344			30.00- 60.00	43.86
4.288	4.118	0.170	96	13482			5.00- 9.00	7.01
4.288	4.118	0.170	173	753			0.00- 2.00	0.46
4.288	4.118	0.170	174	165248			50.00- 120.00	85.92
4.288	4.118	0.170	175	11518			5.00- 9.00	6.97
4.288	4.118	0.170	176	159744			95.00- 101.00	96.67
4.288	4.118	0.170	177	10377			5.00- 9.00	6.50

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFB14339.D

Page 1

Date : 26-FEB-2010 10:48

Client ID: 50NGBFB

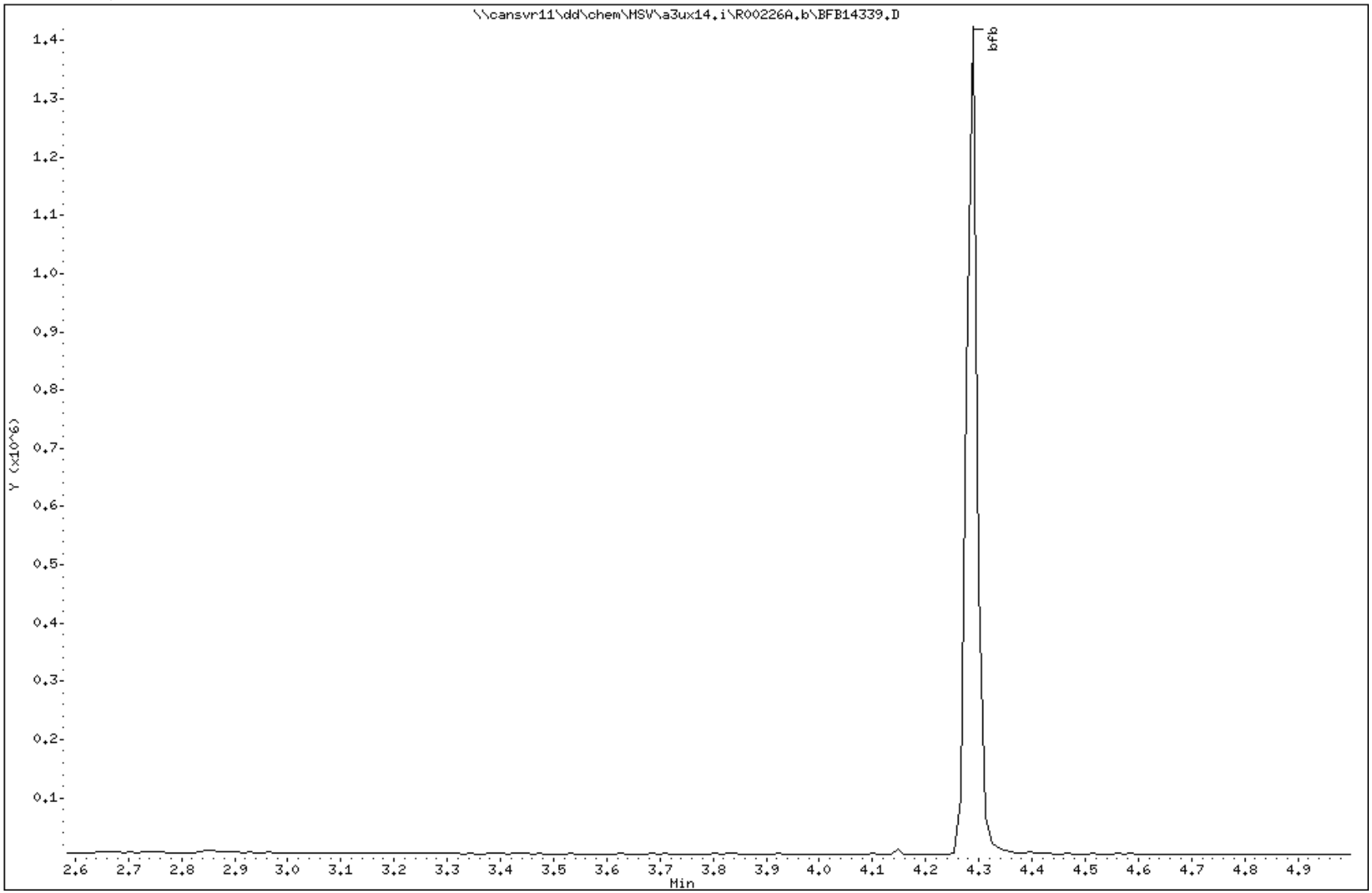
Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFB14339.D

Date : 26-FEB-2010 10:48

Client ID: 50NGBFB

Instrument: a3ux14.i

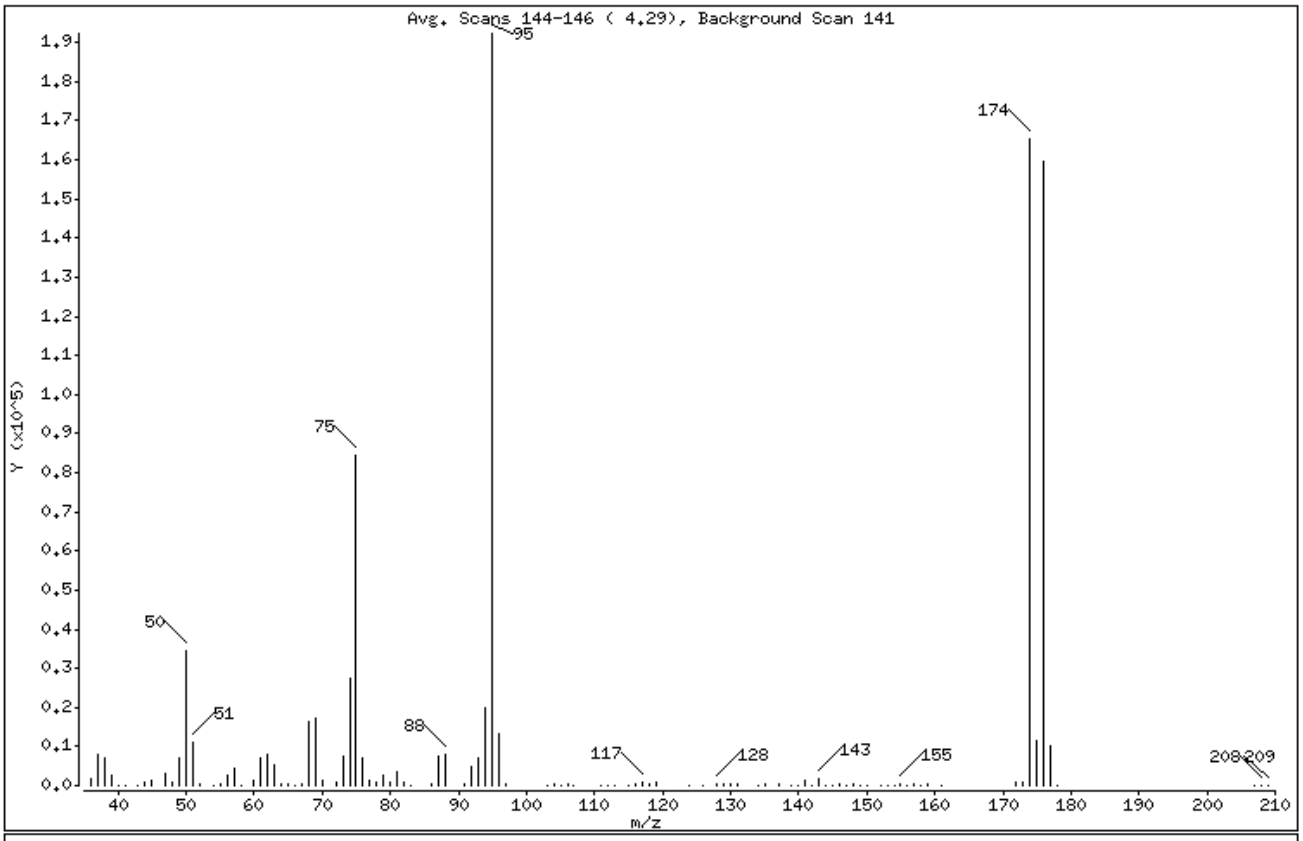
Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.87
75	30.00 - 60.00% of mass 95	43.86
96	5.00 - 9.00% of mass 95	7.01
173	Less than 2.00% of mass 174	0.39 (0.46)
174	50.00 - 120.00% of mass 95	85.92
175	5.00 - 9.00% of mass 174	5.99 (6.97)
176	95.00 - 101.00% of mass 174	83.06 (96.67)
177	5.00 - 9.00% of mass 176	5.40 (6.50)

Date : 26-FEB-2010 10:48

Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

Data File: BFB14339.D
Spectrum: Avg. Scans 144-146 (4.29), Background Scan 141
Location of Maximum: 95.00
Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1585	67.00	357	104.00	621	145.00	142
37.00	7992	68.00	16263	105.00	212	146.00	239
38.00	7234	69.00	17056	106.00	636	147.00	163
39.00	2673	70.00	1293	107.00	72	148.00	461
40.00	214	72.00	877	111.00	53	149.00	110
41.00	50	73.00	7323	112.00	111	150.00	109
43.00	118	74.00	27208	113.00	144	152.00	201
44.00	804	75.00	84344	115.00	148	153.00	147
45.00	1406	76.00	7068	116.00	593	154.00	168
47.00	3075	77.00	1179	117.00	943	155.00	428
48.00	926	78.00	692	118.00	662	156.00	55
49.00	6930	79.00	2737	119.00	882	157.00	359
50.00	34376	80.00	1017	124.00	68	158.00	61
51.00	11020	81.00	3420	126.00	50	159.00	268
52.00	604	82.00	708	128.00	594	161.00	199
54.00	51	83.00	51	129.00	352	172.00	724
55.00	368	86.00	265	130.00	561	173.00	753
56.00	2516	87.00	7615	131.00	228	174.00	165248
57.00	4425	88.00	8070	134.00	53	175.00	11518
58.00	91	91.00	510	135.00	232	176.00	159744
60.00	1380	92.00	4845	137.00	326	177.00	10377
61.00	7118	93.00	7151	139.00	74	178.00	179
62.00	7893	94.00	20056	140.00	131	207.00	110
63.00	5418	95.00	192320	141.00	1522	208.00	155
64.00	523	96.00	13482	142.00	196	209.00	123
65.00	392	97.00	308	143.00	1674		
66.00	50	103.00	57	144.00	64		

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B250453 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	113	(65 - 135)			SW846 8260B
	111	(65 - 135)	1.9	(0-30)	SW846 8260B
Trichloroethene	102	(75 - 125)			SW846 8260B
	101	(75 - 125)	1.6	(0-30)	SW846 8260B
Benzene	102	(75 - 125)			SW846 8260B
	100	(75 - 125)	2.2	(0-30)	SW846 8260B
Toluene	105	(70 - 125)			SW846 8260B
	107	(70 - 125)	1.5	(0-30)	SW846 8260B
Chlorobenzene	101	(75 - 125)			SW846 8260B
	102	(75 - 125)	1.3	(0-30)	SW846 8260B
Acetone	125	(20 - 160)			SW846 8260B
	121	(20 - 160)	2.9	(0-37)	SW846 8260B
Bromodichloromethane	106	(70 - 130)			SW846 8260B
	102	(70 - 130)	3.8	(0-30)	SW846 8260B
Bromoform	110	(55 - 135)			SW846 8260B
	105	(55 - 135)	4.9	(0-30)	SW846 8260B
Bromomethane	102	(30 - 160)			SW846 8260B
	102	(30 - 160)	0.20	(0-30)	SW846 8260B
2-Butanone	93	(30 - 160)			SW846 8260B
	87	(30 - 160)	7.2	(0-33)	SW846 8260B
Bromochloromethane	104	(70 - 125)			SW846 8260B
	100	(70 - 125)	3.4	(0-30)	SW846 8260B
Carbon disulfide	109	(45 - 160)			SW846 8260B
	109	(45 - 160)	0.040	(0-36)	SW846 8260B
Carbon tetrachloride	134	(65 - 135)			SW846 8260B
	131	(65 - 135)	2.7	(0-30)	SW846 8260B
Chloroethane	94	(40 - 155)			SW846 8260B
	94	(40 - 155)	0.15	(0-30)	SW846 8260B
Chloroform	104	(70 - 125)			SW846 8260B
	101	(70 - 125)	3.6	(0-30)	SW846 8260B
Chloromethane	81	(50 - 130)			SW846 8260B
	83	(50 - 130)	1.6	(0-30)	SW846 8260B
1,2-Dibromoethane	103	(70 - 125)			SW846 8260B
	102	(70 - 125)	1.3	(0-30)	SW846 8260B
1,1-Dichloroethane	108	(75 - 125)			SW846 8260B
	107	(75 - 125)	1.2	(0-47)	SW846 8260B
1,2-Dichloroethane	103	(70 - 135)			SW846 8260B
	99	(70 - 135)	3.8	(0-43)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B250453 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloroethene (total)	109	(66 - 137)			SW846 8260B
	107	(66 - 137)	1.6	(0-30)	SW846 8260B
1,2-Dichloropropane	**100**	**(70 - 120)**			**SW846 8260B**
	99	**(70 - 120)**	**0.86**	**(0-30)**	**SW846 8260B**
cis-1,3-Dichloropropene	**99**	**(70 - 125)**			**SW846 8260B**
	95	**(70 - 125)**	**4.2**	**(0-40)**	**SW846 8260B**
trans-1,3-Dichloropropene	**101**	**(65 - 125)**			**SW846 8260B**
	100	**(65 - 125)**	**0.92**	**(0-32)**	**SW846 8260B**
Ethylbenzene	**110**	**(75 - 125)**			**SW846 8260B**
	110	**(75 - 125)**	**0.21**	**(0-30)**	**SW846 8260B**
2-Hexanone	**104**	**(45 - 145)**			**SW846 8260B**
	95	**(45 - 145)**	**8.3**	**(0-31)**	**SW846 8260B**
Methylene chloride	**105**	**(55 - 140)**			**SW846 8260B**
	104	**(55 - 140)**	**0.86**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**101**	**(45 - 145)**			**SW846 8260B**
	92	**(45 - 145)**	**9.5**	**(0-39)**	**SW846 8260B**
Styrene	**111**	**(75 - 125)**			**SW846 8260B**
	110	**(75 - 125)**	**0.75**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**103**	**(55 - 130)**			**SW846 8260B**
	99	**(55 - 130)**	**3.6**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**104**	**(65 - 140)**			**SW846 8260B**
	105	**(65 - 140)**	**0.61**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**101**	**(60 - 125)**			**SW846 8260B**
	98	**(60 - 125)**	**2.9**	**(0-30)**	**SW846 8260B**
1,1,1-Trichloroethane	**115**	**(70 - 135)**			**SW846 8260B**
	114	**(70 - 135)**	**0.48**	**(0-30)**	**SW846 8260B**
Xylenes (total)	**113**	**(75 - 125)**			**SW846 8260B**
	114	**(75 - 125)**	**0.060**	**(0-30)**	**SW846 8260B**
Vinyl chloride	**93**	**(60 - 125)**			**SW846 8260B**
	94	**(60 - 125)**	**0.36**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 130)
	90	(61 - 130)
Toluene-d8	101	(85 - 115)
	101	(85 - 115)
4-Bromofluorobenzene	101	(85 - 120)
	104	(85 - 120)
Dibromofluoromethane	97	(59 - 138)
	94	(59 - 138)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B250453 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B250453 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	50	57	ug/kg	113		SW846 8260B
	50	56	ug/kg	111	1.9	SW846 8260B
Trichloroethene	50	51	ug/kg	102		SW846 8260B
	50	50	ug/kg	101	1.6	SW846 8260B
Benzene	50	51	ug/kg	102		SW846 8260B
	50	50	ug/kg	100	2.2	SW846 8260B
Toluene	50	52	ug/kg	105		SW846 8260B
	50	53	ug/kg	107	1.5	SW846 8260B
Chlorobenzene	50	51	ug/kg	101		SW846 8260B
	50	51	ug/kg	102	1.3	SW846 8260B
Acetone	50	62	ug/kg	125		SW846 8260B
	50	61	ug/kg	121	2.9	SW846 8260B
Bromodichloromethane	50	53	ug/kg	106		SW846 8260B
	50	51	ug/kg	102	3.8	SW846 8260B
Bromoform	50	55	ug/kg	110		SW846 8260B
	50	52	ug/kg	105	4.9	SW846 8260B
Bromomethane	50	51	ug/kg	102		SW846 8260B
	50	51	ug/kg	102	0.20	SW846 8260B
2-Butanone	50	47	ug/kg	93		SW846 8260B
	50	43	ug/kg	87	7.2	SW846 8260B
Bromochloromethane	50	52	ug/kg	104		SW846 8260B
	50	50	ug/kg	100	3.4	SW846 8260B
Carbon disulfide	50	55	ug/kg	109		SW846 8260B
	50	55	ug/kg	109	0.040	SW846 8260B
Carbon tetrachloride	50	67	ug/kg	134		SW846 8260B
	50	65	ug/kg	131	2.7	SW846 8260B
Chloroethane	50	47	ug/kg	94		SW846 8260B
	50	47	ug/kg	94	0.15	SW846 8260B
Chloroform	50	52	ug/kg	104		SW846 8260B
	50	50	ug/kg	101	3.6	SW846 8260B
Chloromethane	50	41	ug/kg	81		SW846 8260B
	50	41	ug/kg	83	1.6	SW846 8260B
1,2-Dibromoethane	50	52	ug/kg	103		SW846 8260B
	50	51	ug/kg	102	1.3	SW846 8260B
1,1-Dichloroethane	50	54	ug/kg	108		SW846 8260B
	50	53	ug/kg	107	1.2	SW846 8260B
1,2-Dichloroethane	50	51	ug/kg	103		SW846 8260B
	50	50	ug/kg	99	3.8	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B250453 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2-Dichloroethene (total)	100	110	ug/kg	109		SW846 8260B
	100	110	ug/kg	107	1.6	SW846 8260B
1,2-Dichloropropane	**50**	**50**	**ug/kg**	**100**		**SW846 8260B**
	50	**49**	**ug/kg**	**99**	**0.86**	**SW846 8260B**
cis-1,3-Dichloropropene	**50**	**50**	**ug/kg**	**99**		**SW846 8260B**
	50	**48**	**ug/kg**	**95**	**4.2**	**SW846 8260B**
trans-1,3-Dichloropropene	**50**	**50**	**ug/kg**	**101**		**SW846 8260B**
	50	**50**	**ug/kg**	**100**	**0.92**	**SW846 8260B**
Ethylbenzene	**50**	**55**	**ug/kg**	**110**		**SW846 8260B**
	50	**55**	**ug/kg**	**110**	**0.21**	**SW846 8260B**
2-Hexanone	**50**	**52**	**ug/kg**	**104**		**SW846 8260B**
	50	**48**	**ug/kg**	**95**	**8.3**	**SW846 8260B**
Methylene chloride	**50**	**52**	**ug/kg**	**105**		**SW846 8260B**
	50	**52**	**ug/kg**	**104**	**0.86**	**SW846 8260B**
4-Methyl-2-pentanone	**50**	**51**	**ug/kg**	**101**		**SW846 8260B**
	50	**46**	**ug/kg**	**92**	**9.5**	**SW846 8260B**
Styrene	**50**	**56**	**ug/kg**	**111**		**SW846 8260B**
	50	**55**	**ug/kg**	**110**	**0.75**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**50**	**52**	**ug/kg**	**103**		**SW846 8260B**
	50	**50**	**ug/kg**	**99**	**3.6**	**SW846 8260B**
Tetrachloroethene	**50**	**52**	**ug/kg**	**104**		**SW846 8260B**
	50	**52**	**ug/kg**	**105**	**0.61**	**SW846 8260B**
1,1,2-Trichloroethane	**50**	**50**	**ug/kg**	**101**		**SW846 8260B**
	50	**49**	**ug/kg**	**98**	**2.9**	**SW846 8260B**
1,1,1-Trichloroethane	**50**	**58**	**ug/kg**	**115**		**SW846 8260B**
	50	**57**	**ug/kg**	**114**	**0.48**	**SW846 8260B**
Xylenes (total)	**150**	**170**	**ug/kg**	**113**		**SW846 8260B**
	150	**170**	**ug/kg**	**114**	**0.060**	**SW846 8260B**
Vinyl chloride	**50**	**47**	**ug/kg**	**93**		**SW846 8260B**
	50	**47**	**ug/kg**	**94**	**0.36**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 130)
	90	(61 - 130)
Toluene-d8	101	(85 - 115)
	101	(85 - 115)
4-Bromofluorobenzene	101	(85 - 120)
	104	(85 - 120)
Dibromofluoromethane	97	(59 - 138)
	94	(59 - 138)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B250453 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Lab Smp Id: CHECK
Inj Date : 26-FEB-2010 12:36
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECK
Misc Info : R00226A,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 5 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1286060	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	949703	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	535712	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	341945	241.339	48.268
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	349141	240.346	48.069
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1301452	252.783	50.557
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	502337	252.891	50.578
8 Dichlorodifluoromethane	85	1.310	1.298	(0.199)	224779	172.807	34.561(R)
9 Chloromethane	50	1.452	1.452	(0.220)	382055	203.166	40.633
10 Vinyl Chloride	62	1.570	1.570	(0.238)	331269	233.550	46.710
11 Bromomethane	94	1.890	1.878	(0.286)	175842	253.910	50.782
12 Chloroethane	64	2.008	1.996	(0.304)	197513	236.126	47.225
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	414848	303.696	60.739
15 Acrolein	56	2.730	2.730	(0.414)	218882	1354.16	270.83(R)
16 Acetone	43	2.931	2.931	(0.444)	143374	311.636	62.327
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	348236	283.410	56.682
18 Freon-113	151	2.895	2.896	(0.439)	320099	324.377	64.875(R)
19 Iodomethane	142	3.026	3.026	(0.459)	594017	283.642	56.728
20 Carbon Disulfide	76	3.097	3.097	(0.469)	962348	273.440	54.688
21 Methylene Chloride	84	3.511	3.499	(0.532)	362158	261.673	52.334

22 Acetonitrile	41	3.298	3.286 (0.500)	131131	768.644	153.73
23 Acrylonitrile	53	3.889	3.890 (0.589)	393214	776.853	155.37

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	892083	279.441	55.888
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	396153	277.634	55.527
26	Hexane	86	4.398	4.387	(0.666)	95334	289.518	57.904
27	Vinyl acetate	43	4.694	4.694	(0.711)	694272	421.736	84.347(R)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	55795	380.388	76.078(AR)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	688940	269.827	53.965
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	598473	5144.56	1028.9
30	2-Butanone	43	5.380	5.380	(0.815)	153257	232.552	46.510
M 31	1,2-Dichloroethene (total)	96				783789	542.768	108.55
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	387636	265.134	53.027
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	275512	275.787	55.157
34	Bromochloromethane	128	5.605	5.605	(0.849)	184216	259.235	51.847
35	Chloroform	83	5.724	5.724	(0.867)	610320	260.773	52.154
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	103989	243.609	48.722
37	1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	486701	287.597	57.519
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	487609	274.767	54.953
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	494386	336.115	67.223(R)
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	445688	257.294	51.459
41	Benzene	78	6.303	6.303	(0.955)	1424072	256.184	51.237
42	Trichloroethene	130	6.966	6.966	(1.056)	392343	256.091	51.218
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	346565	248.861	49.772
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.274	7.274	(1.102)	181140	255.419	51.084
46	Bromodichloromethane	83	7.439	7.439	(1.127)	380658	264.792	52.958
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	141721	220.365	44.073
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	438087	247.775	49.555
49	4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	290842	253.595	50.719
50	Toluene	91	8.137	8.138	(0.872)	1471053	262.251	52.450
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	371153	251.768	50.354
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	251429	251.267	50.253
54	1,3-Dichloropropane	76	8.634	8.635	(0.925)	430696	256.908	51.382
55	Tetrachloroethene	164	8.623	8.623	(0.924)	307613	259.756	51.951
56	2-Hexanone	43	8.717	8.717	(0.934)	204954	259.394	51.879
57	Dibromochloromethane	129	8.836	8.836	(0.947)	270946	259.402	51.880
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	249168	257.903	51.580
59	Chlorobenzene	112	9.356	9.356	(1.003)	974807	252.831	50.566
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	326624	267.107	53.421
61	Ethylbenzene	106	9.451	9.451	(1.013)	547702	275.609	55.122
62	m + p-Xylene	106	9.557	9.557	(1.024)	1356126	564.069	112.81
M 63	Xylenes (total)	106				2005757	850.843	170.17
64	Xylene-o	106	9.889	9.889	(1.060)	649631	286.775	57.355
65	Styrene	104	9.901	9.901	(1.061)	1001340	278.085	55.617
66	Bromoform	173	10.054	10.054	(1.077)	173841	274.897	54.979
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1736422	285.616	57.123
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	338907	257.898	51.580
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	215211	527.843	105.57
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	105660	277.446	55.489
71	Bromobenzene	156	10.457	10.457	(0.925)	405505	257.087	51.417
72	n-Propylbenzene	120	10.551	10.551	(0.933)	501206	273.295	54.659
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	417132	279.579	55.916
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1404768	276.569	55.314

75	4-Chlorotoluene	126	10.717	10.717 (0.948)	431061	273.625	54.725
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1303478	277.146	55.429

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1463020	282.184	56.437
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1864638	275.677	55.135
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1584363	275.608	55.122
80	1,3-Dichlorobenzene	146	11.249	11.250	(0.995)	768494	256.616	51.323
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	777928	244.861	48.972
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1374435	275.547	55.109
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	714407	254.795	50.959
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	64744	285.483	57.096
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	482607	265.980	53.196
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	291659	250.756	50.151
87	Naphthalene	128	13.178	13.178	(1.165)	1137873	272.487	54.497
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	460330	257.551	51.510
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	7729	14.5727	2.914
89	Ethyl Ether	59	2.600	2.600	(0.394)	285772	265.057	53.011
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.741	(0.719)	308717	270.323	54.064
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.487	5.487	(0.831)	4965	3.71898	0.7438
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.303	6.292	(0.955)	476035	11995.6	2399.1(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	117254	394.722	78.944(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	777234	257.419	51.484
143	Methyl Acetate	43	3.392	3.393	(0.514)	269559	215.664	43.133
144	Methylcyclohexane	83	7.143	7.144	(1.082)	715850	277.297	55.459
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1447692	285.780	57.156(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

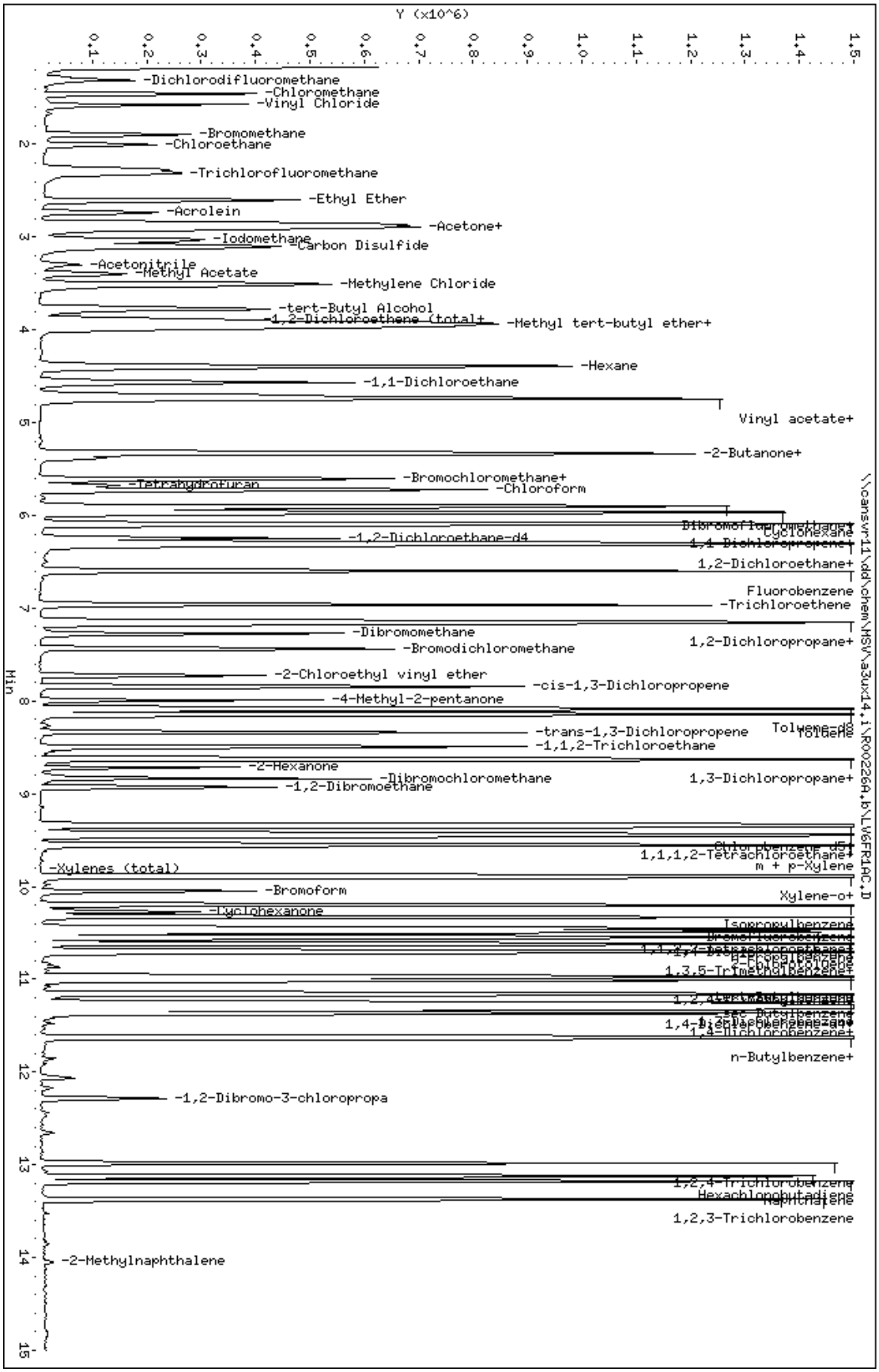
Instrument ID: a3ux14.i
Lab File ID: 148216.D
Lab Smp Id: CHECK
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1286060	-1.98
2 Chlorobenzene-d5	965181	482591	1930362	949703	-1.60
3 1,4-Dichlorobenze	531218	265609	1062436	535712	0.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
Min
2
3
4
5
6
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13
14
15
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total+
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
Vinyl acetate+
-2-Butanone+
-Bromochloromethane+
-Tetrahydrofuran
-Chloroform
-1,2-Dichloroethane-d4
Cyclohexane
1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
Toluene-d8
Toluene
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
1,3-Dichloropropane+
1,1,1,2-Tetrachloroethane+
-Xylenes (total)
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
1,3,5-Trimethylbenzene+
1,4-Dichlorobenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
-2-Methylnaphthalene
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AC.D
Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AC.D
Date : 26-FEB-2010 12:36
Client ID:
Sample Info: CHECK
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Lab Smp Id: CHECKDUP
Inj Date : 26-FEB-2010 12:57
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP
Misc Info : R00226A,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 6 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1347350	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	961680	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	524167	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	349413	235.392	47.078
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	342364	224.960	44.992
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1315441	252.318	50.464
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	504450	259.548	51.910
8 Dichlorodifluoromethane	85	1.310	1.298	(0.199)	229456	168.378	33.676(R)
9 Chloromethane	50	1.452	1.452	(0.220)	406749	206.459	41.292
10 Vinyl Chloride	62	1.570	1.570	(0.238)	348338	234.412	46.882
11 Bromomethane	94	1.890	1.878	(0.286)	184602	254.434	50.887
12 Chloroethane	64	2.008	1.996	(0.304)	206597	235.751	47.150
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	435584	304.371	60.874
15 Acrolein	56	2.730	2.730	(0.414)	203841	1203.74	240.75(R)
16 Acetone	43	2.931	2.931	(0.444)	146619	302.590	60.518
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	357920	278.041	55.608
18 Freon-113	151	2.895	2.896	(0.439)	325097	314.456	62.891(R)
19 Iodomethane	142	3.026	3.026	(0.459)	614555	280.100	56.020
20 Carbon Disulfide	76	3.097	3.097	(0.469)	1007767	273.320	54.664
21 Methylene Chloride	84	3.511	3.499	(0.532)	376413	259.418	51.884

22 Acetonitrile	41	3.298	3.286 (0.500)	126258	706.414	141.28
23 Acrylonitrile	53	3.889	3.890 (0.589)	375004	707.174	141.43

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	890455	266.242	53.248
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	407842	272.824	54.565
26	Hexane	86	4.398	4.387	(0.666)	98814	286.435	57.287
27	Vinyl acetate	43	4.694	4.694	(0.711)	650054	376.913	75.383(R)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	52462	341.395	68.279(AR)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	712829	266.483	53.297
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	566722	4650.02	930.00
30	2-Butanone	43	5.380	5.380	(0.815)	149466	216.482	43.296
M 31	1,2-Dichloroethene (total)	96				807885	533.997	106.80
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	400043	261.174	52.235
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	283868	271.225	54.245
34	Bromochloromethane	128	5.605	5.605	(0.849)	186600	250.645	50.129
35	Chloroform	83	5.724	5.724	(0.867)	616805	251.555	50.311
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	99878	223.335	44.667
37	1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	507410	286.195	57.239
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	499265	268.538	53.708
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	503973	327.046	65.409(R)
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	449389	247.629	49.526
41	Benzene	78	6.303	6.303	(0.955)	1460044	250.707	50.141
42	Trichloroethene	130	6.966	6.966	(1.056)	404692	252.136	50.427
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	359965	246.725	49.345
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.274	7.274	(1.102)	180992	243.601	48.720
46	Bromodichloromethane	83	7.439	7.439	(1.127)	384020	254.979	50.996
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	134220	200.102	40.020
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	440221	237.656	47.531
49	4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	267896	230.679	46.136
50	Toluene	91	8.137	8.138	(0.872)	1512712	266.319	53.264
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	372391	249.462	49.892
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	247213	243.977	48.795
54	1,3-Dichloropropane	76	8.634	8.635	(0.925)	431839	254.382	50.876
55	Tetrachloroethene	164	8.623	8.623	(0.924)	313403	261.349	52.270
56	2-Hexanone	43	8.717	8.717	(0.934)	190968	238.683	47.736
57	Dibromochloromethane	129	8.836	8.836	(0.947)	272368	257.515	51.503
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	249092	254.613	50.922
59	Chlorobenzene	112	9.356	9.356	(1.003)	1000402	256.238	51.248
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	333848	269.614	53.923
61	Ethylbenzene	106	9.451	9.451	(1.013)	555818	276.209	55.242
62	m + p-Xylene	106	9.557	9.557	(1.024)	1372077	563.596	112.72
M 63	Xylenes (total)	106				2032284	851.409	170.28
64	Xylene-o	106	9.889	9.889	(1.060)	660207	287.814	57.563
65	Styrene	104	9.901	9.901	(1.061)	1006371	276.001	55.200
66	Bromoform	173	10.054	10.054	(1.077)	167650	261.805	52.361
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1762386	286.277	57.255
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	319811	248.727	49.745
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	204251	511.996	102.40
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	102472	275.001	55.000
71	Bromobenzene	156	10.457	10.457	(0.925)	405410	262.688	52.538
72	n-Propylbenzene	120	10.551	10.551	(0.933)	514246	286.582	57.316
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	422443	289.375	57.875
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1421798	286.087	57.217

75	4-Chlorotoluene	126	10.717	10.717 (0.948)	434377	281.803	56.361
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1324524	287.824	57.565

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1481592	292.060	58.412
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1877289	283.661	56.732
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1604669	285.288	57.058
80	1,3-Dichlorobenzene	146	11.249	11.250	(0.995)	772354	263.585	52.717
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	771728	248.260	49.652
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1395876	286.010	57.202
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	708261	258.166	51.633
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	57257	258.030	51.606
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	492708	277.528	55.506
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	297093	261.054	52.211
87	Naphthalene	128	13.178	13.178	(1.165)	1052360	257.560	51.512
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	454996	260.174	52.035
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	4042	13.2197	2.644
89	Ethyl Ether	59	2.600	2.600	(0.394)	289056	255.907	51.181
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.741	(0.719)	315146	263.399	52.680
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.291	6.292	(0.953)	441682	10623.7	2124.7(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	113082	389.704	77.941(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	807575	255.301	51.060
143	Methyl Acetate	43	3.392	3.393	(0.514)	263209	201.004	40.201
144	Methylcyclohexane	83	7.143	7.144	(1.082)	734243	271.484	54.297
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1449198	292.379	58.476(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

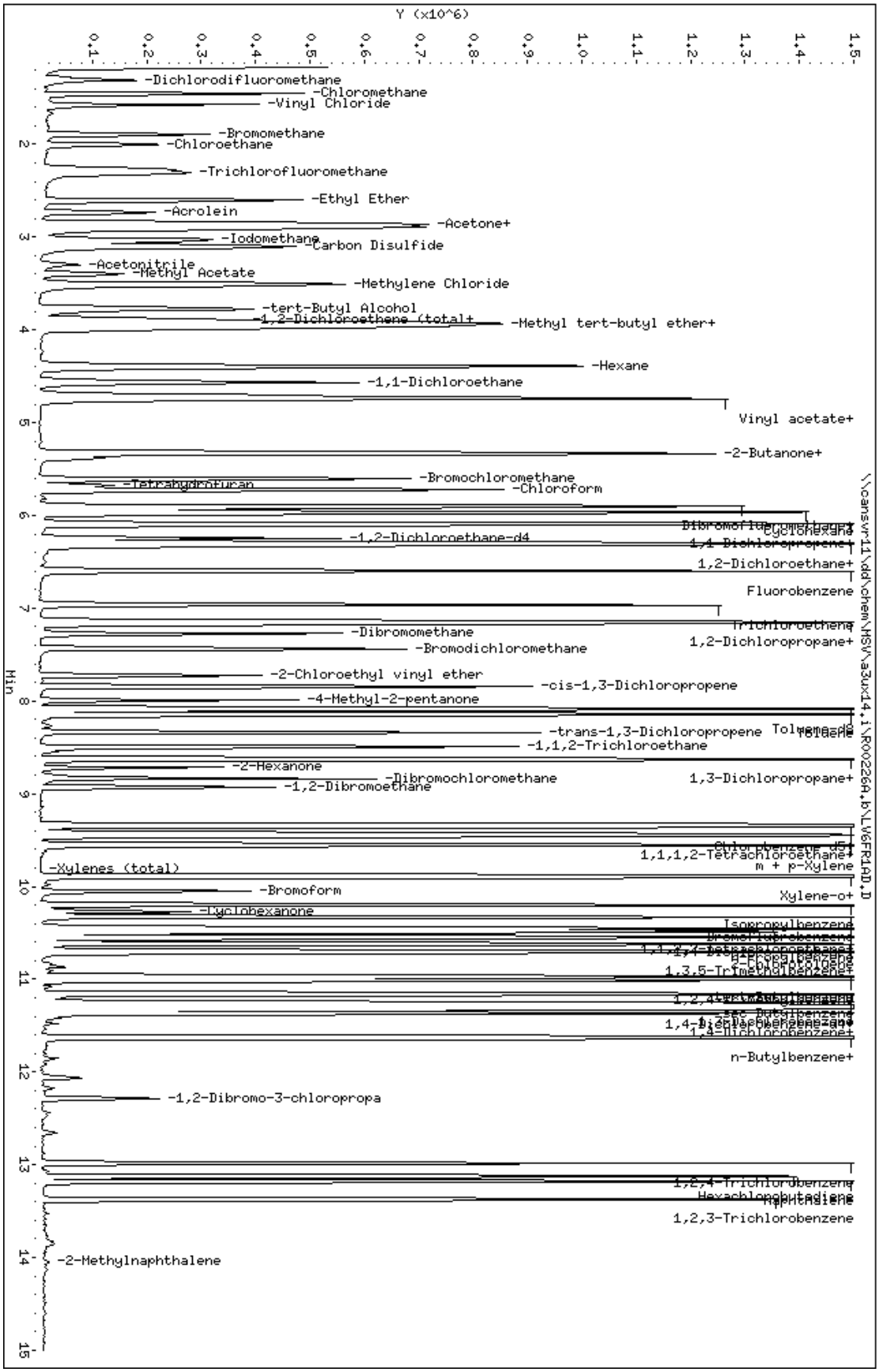
Instrument ID: a3ux14.i
Lab File ID: 148217.D
Lab Smp Id: CHECKDUP
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1347350	2.69
2 Chlorobenzene-d5	965181	482591	1930362	961680	-0.36
3 1,4-Dichlorobenze	531218	265609	1062436	524167	-1.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total+
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Tetrahydrofuran
-Chloroform
-1,2-Dichloroethane-d4
Cyclohexane
1,2-Dichloroethane+
Fluorobenzene
Trichloroethene
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-trans-1,3-Dichloropropene
Toluene-d8
Toluene
-1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
1,3-Dichloropropane+
-1,2-Dibromoethane
Chlorobenzene-d5
1,1,1,2-Tetrachloroethane+
-Xylenes (total)
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
Bromofluorobenzene
1,3,5-Trimethylbenzene+
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4
1,4-Dichlorobenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
-2-Methylnaphthalene
\\cansvr11\dd\chem\MSV\a3ux14,i\R00226A.b\LV6FR1AD.D
Data File: \\cansvr11\dd\chem\MSV\a3ux14,i\R00226A.b\LV6FR1AD.D
Date : 26-FEB-2010 12:57
Client ID:
Sample Info: CHECKDUP
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14,i
Operator: 2807
Column diameter: 0.18

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0B250453 **Work Order #...:** LV6FR1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0C010000-098

Prep Date.....: 02/26/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 02/26/10 **Prep Batch #...:** 0060098
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**11 J**	**20**	**ug/kg**	**SW846 8260B**
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	**3.4 J**	**20**	**ug/kg**	**SW846 8260B**
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	**1.7 J**	**20**	**ug/kg**	**SW846 8260B**
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(61 - 130)
Toluene-d8	94	(85 - 115)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0B250453 **Work Order #...:** LV6FR1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4-Bromofluorobenzene	99	(85 - 120)		
Dibromofluoromethane	94	(59 - 138)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated: The analyte was positively identified; the quanitation is estimated.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Lab Smp Id: VBLK
Inj Date : 26-FEB-2010 13:41
Operator : 2807 Inst ID: a3ux14.i
Smp Info : VBLK,5G/5ML
Misc Info : R00226A,8260SUX14,,2807,3,,BLANK,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1293874	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	933757	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	498117	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	335871	235.621	47.124
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	346032	236.767	47.353
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1193862	235.846	47.169
$ 7 Bromofluorobenzene	95	10.326	10.327	(0.913)	456257	247.029	49.406
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.931	2.931	(0.444)	45662	52.7984	10.560
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22 Acetonitrile	41	3.298	3.286 (0.500)	5121	29.8362	5.967
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	5.392	5.380	(0.817)	11309	17.0566	3.411
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	1992	1.76656	0.3533
	50 Toluene	91	8.137	8.138	(0.872)	6802	1.23333	0.2467
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	8.717	8.717	(0.934)	6475	8.33483	1.667
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (UG/KG)
77 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78 sec-Butylbenzene	105	Compound Not Detected.					
79 4-Isopropyltoluene	119	Compound Not Detected.					
80 1,3-Dichlorobenzene	146	Compound Not Detected.					
81 1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	2991	1.01250	0.2025
82 n-Butylbenzene	91	Compound Not Detected.					
83 1,2-Dichlorobenzene	146	Compound Not Detected.					
84 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85 1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	2555	1.51442	0.3029
86 Hexachlorobutadiene	225	Compound Not Detected.					
87 Naphthalene	128	13.178	13.178	(1.165)	5784	1.48964	0.2979
88 1,2,3-Trichlorobenzene	180	13.368	13.380	(1.182)	1978	1.19020	0.2380
146 2-Methylnaphthalene	142	14.054	14.054	(1.243)	1152	12.1322	2.426
89 Ethyl Ether	59	Compound Not Detected.					
91 3-Chloropropene	76	Compound Not Detected.					
92 Isopropyl Ether	87	Compound Not Detected.					
93 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14 Dichlorofluoromethane	67	Compound Not Detected.					
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	Compound Not Detected.					
96 Methacrylonitrile	67	Compound Not Detected.					
97 Isobutanol	42	Compound Not Detected.					
99 n-Butanol	56	Compound Not Detected.					
100 Methyl Methacrylate	41	Compound Not Detected.					
25 Cyclohexanone	55	10.244	10.267	(0.906)	1461	49.4561	9.891
101 2-Nitropropane	41	Compound Not Detected.					
98 Cyclohexane	56	5.972	5.960	(0.905)	2641	0.86941	0.1739
143 Methyl Acetate	43	Compound Not Detected.					
144 Methylcyclohexane	83	Compound Not Detected.					
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156 tert-Butyl Ethyl ether	59	Compound Not Detected.					
157 tert-Amyl Methyl ether	73	Compound Not Detected.					
158 1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	6592	1.39950	0.2799(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 148219.D
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807,3,,BLANK,,0

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

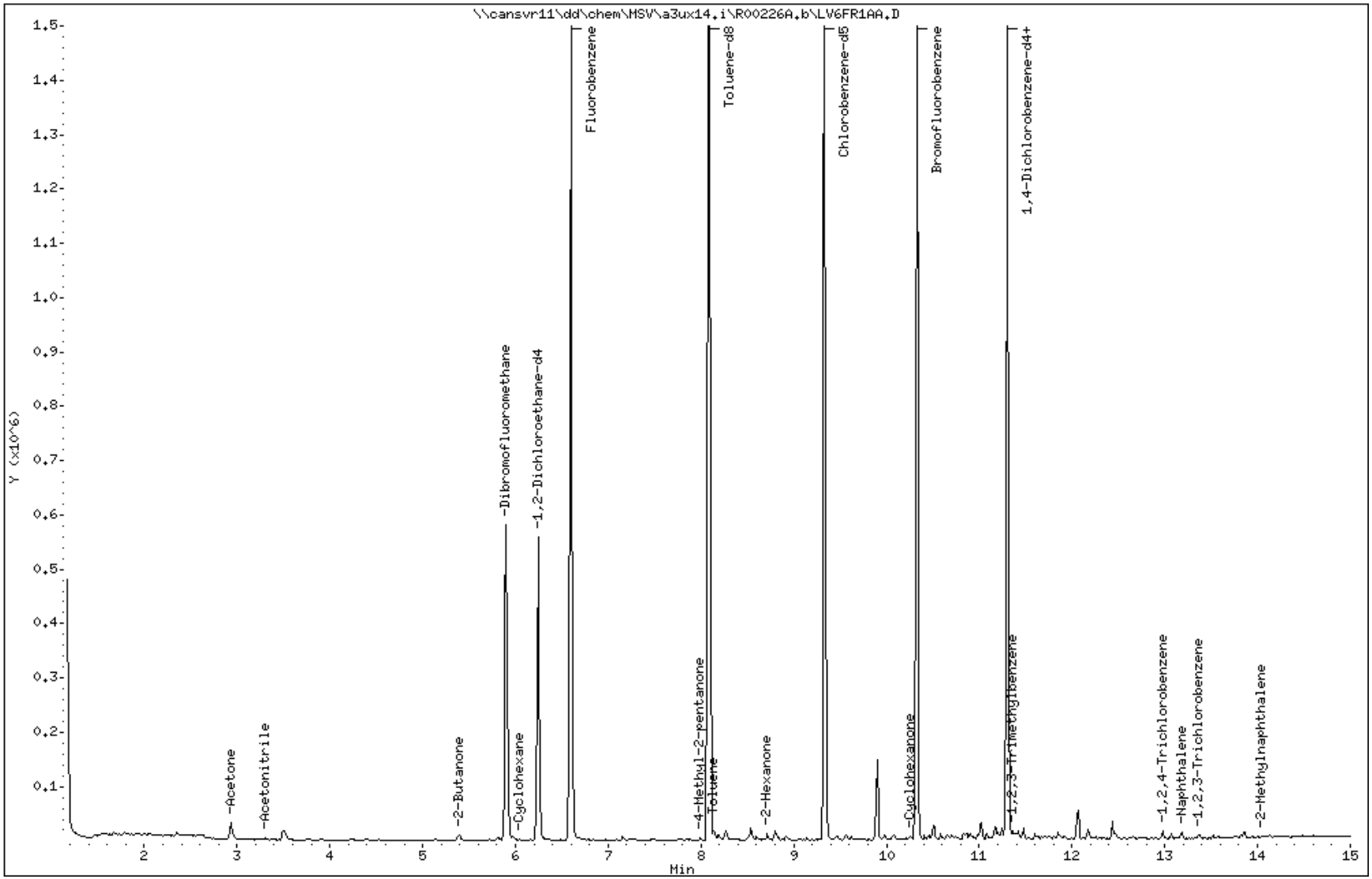
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1293874	-1.38
2 Chlorobenzene-d5	965181	482591	1930362	933757	-3.26
3 1,4-Dichlorobenze	531218	265609	1062436	498117	-6.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D
Date : 26-FEB-2010 13:41
Client ID:
Sample Info: VBLK,5G/5ML
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



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Date : 26-FEB-2010 13:41

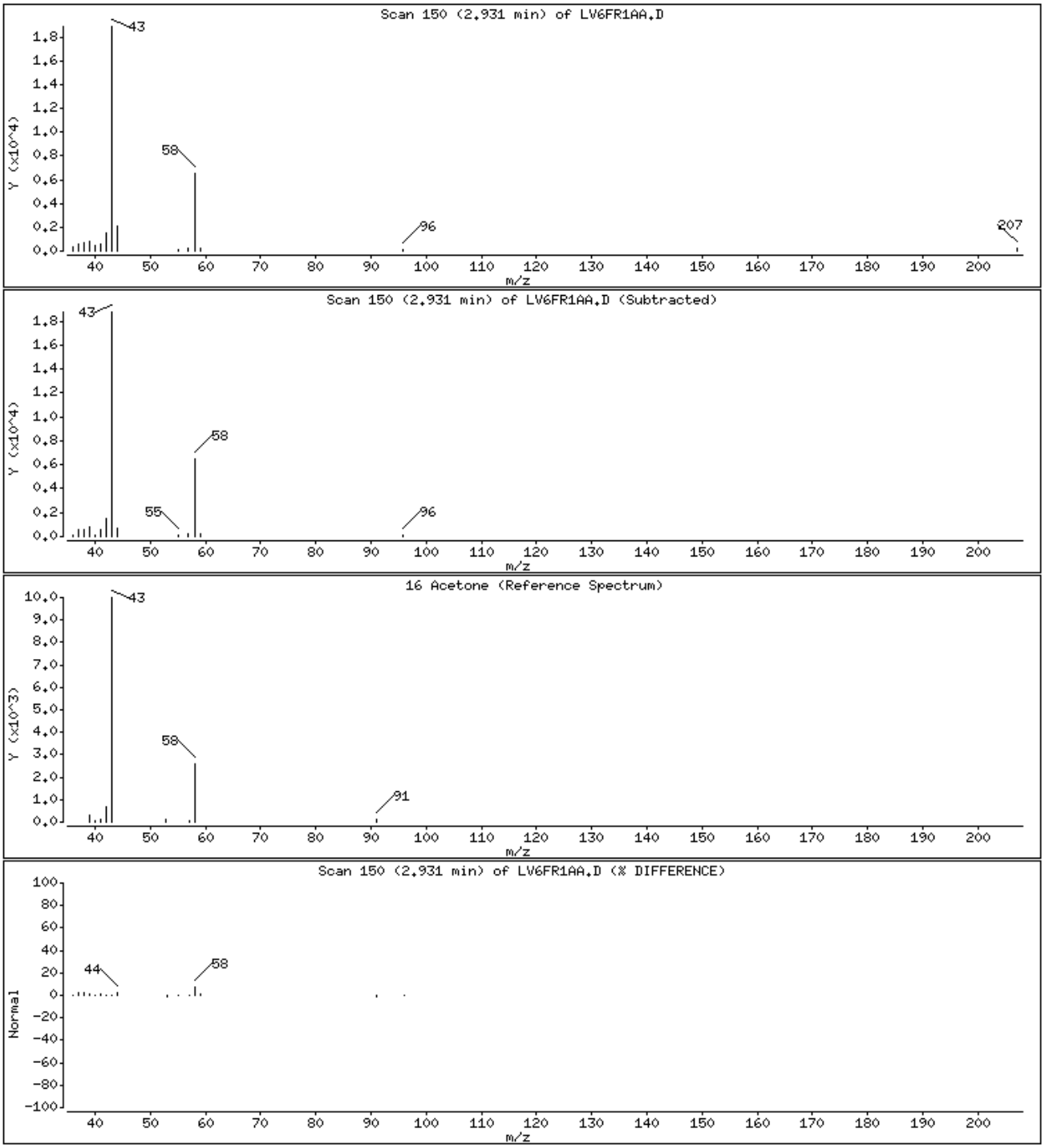
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 10.560 UG/KG



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Date : 26-FEB-2010 13:41

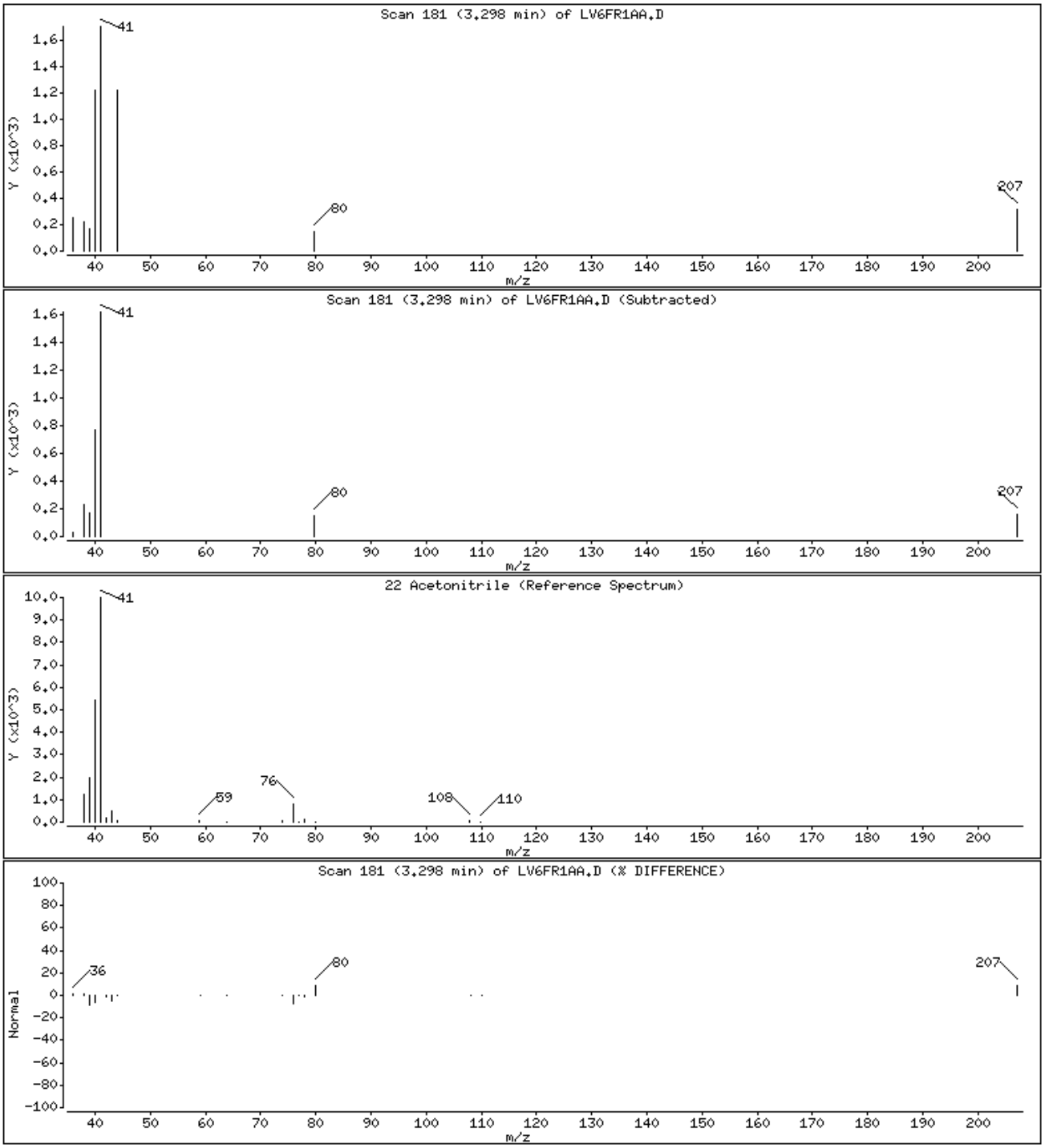
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

22 Acetonitrile Concentration: 5.967 UG/KG



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Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

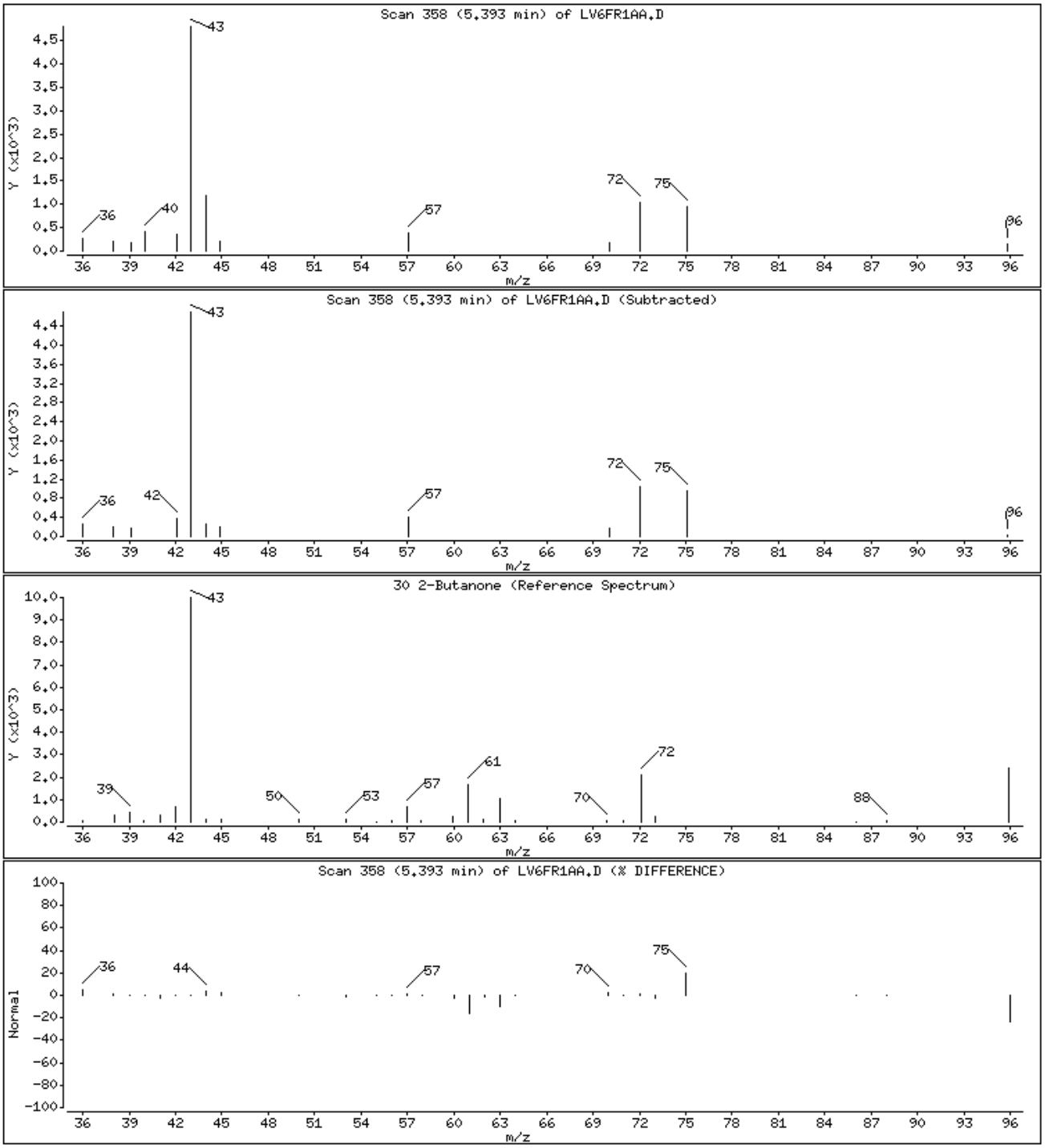
Operator: 2807

Column phase: DB624

Column diameter: 0.18

30 2-Butanone

Concentration: 3.411 UG/KG



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Date : 26-FEB-2010 13:41

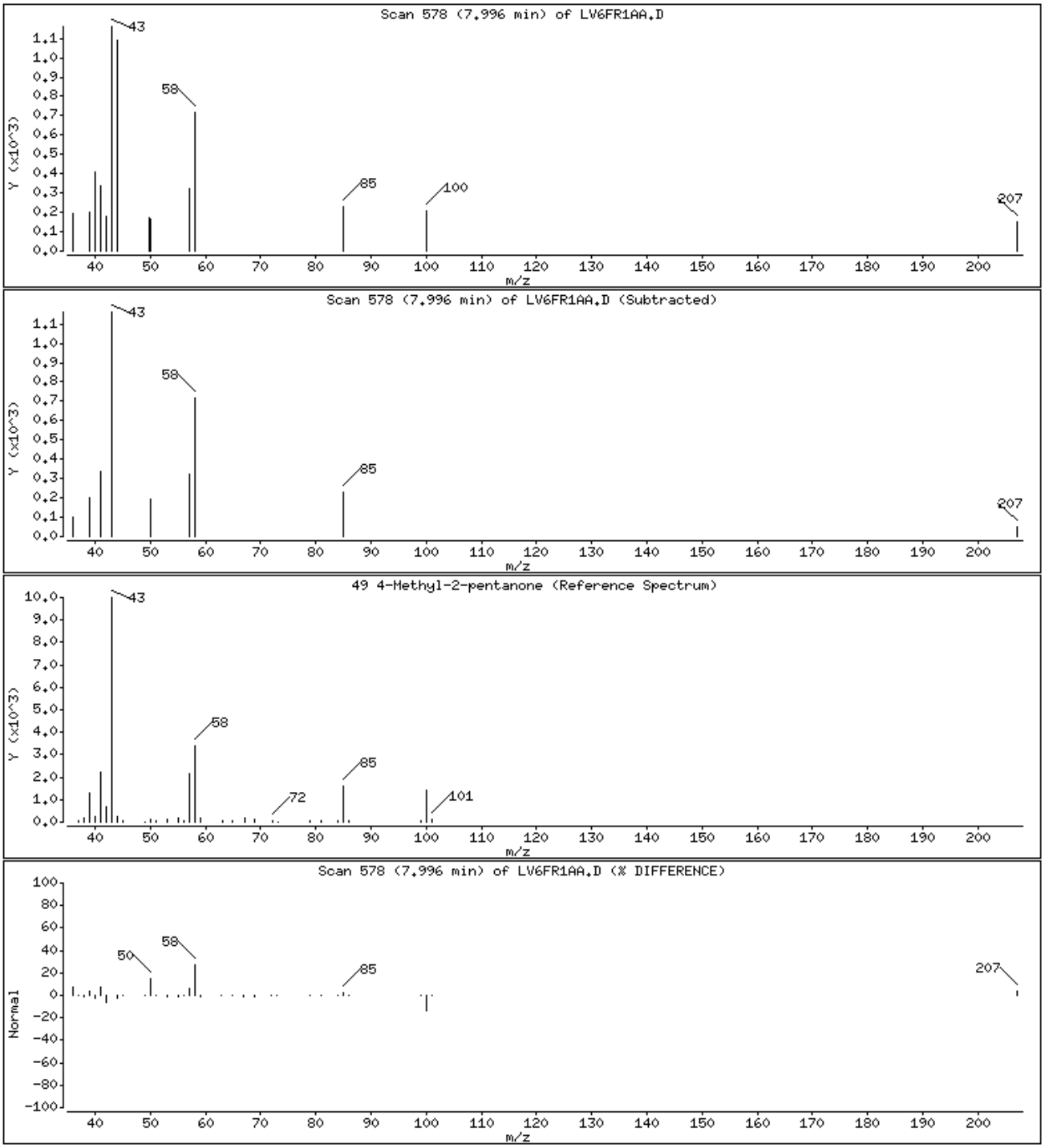
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

49 4-Methyl-2-pentanone Concentration: 0.3533 UG/KG



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Date : 26-FEB-2010 13:41

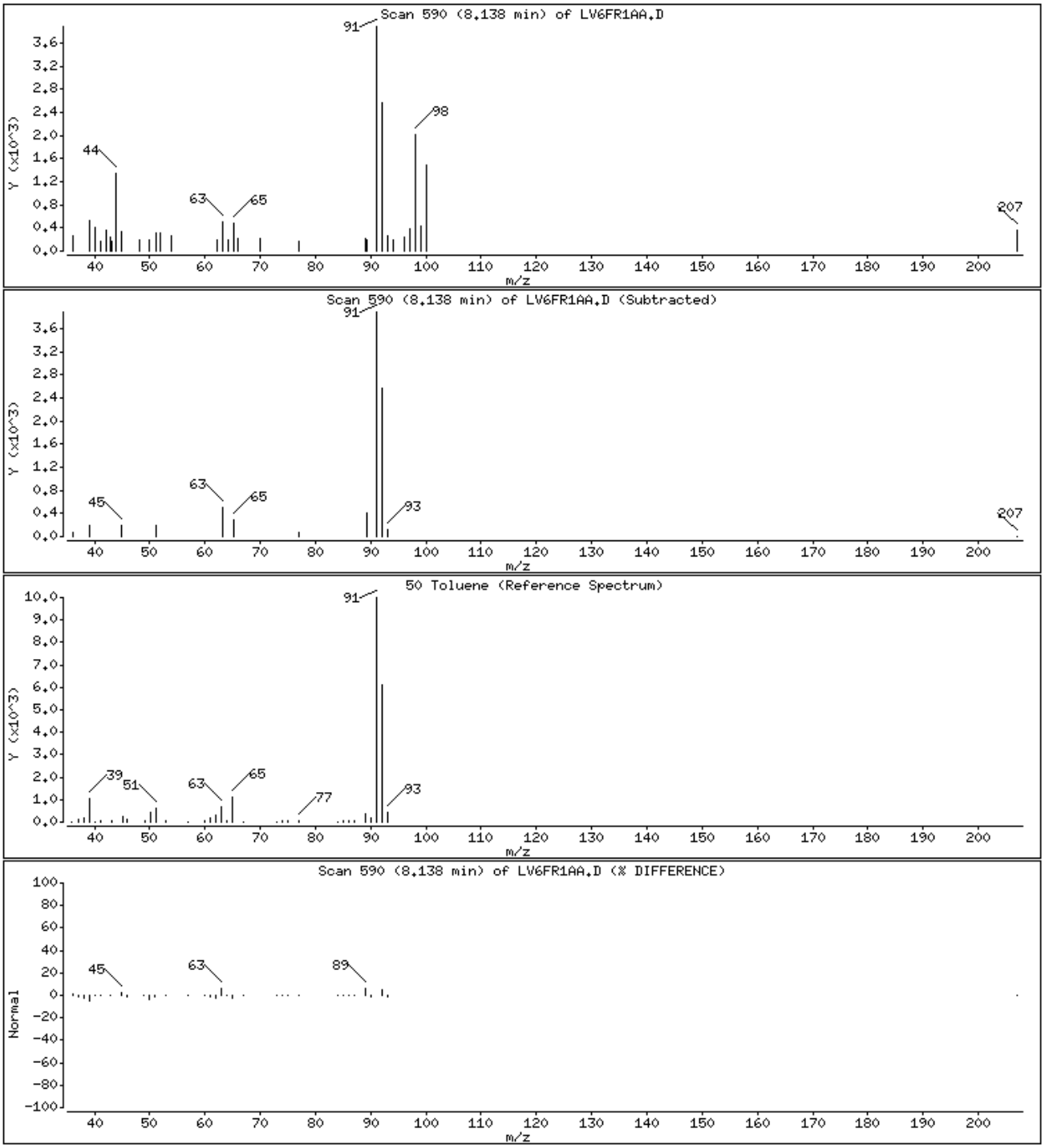
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

50 Toluene Concentration: 0.2467 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

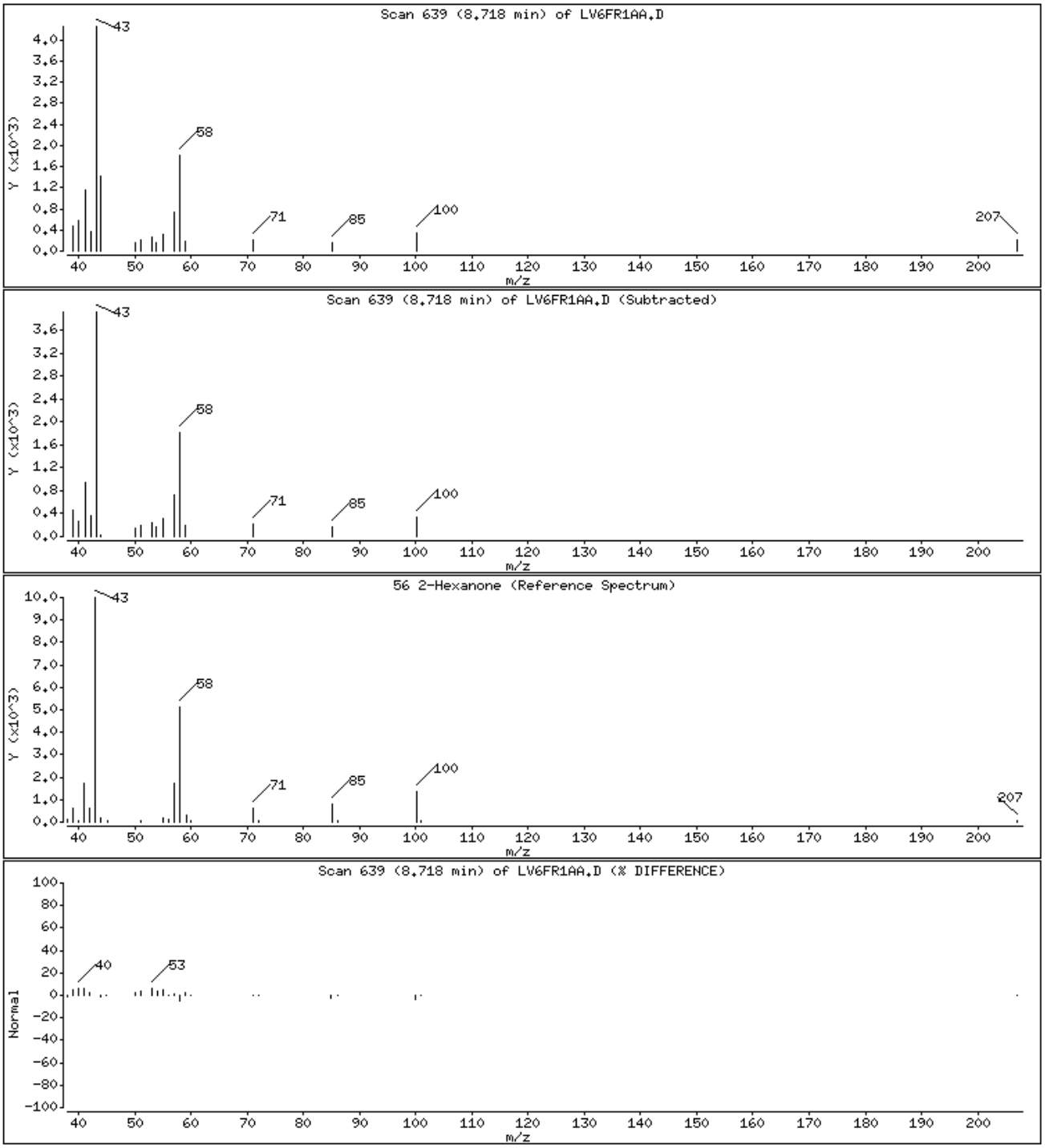
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

56 2-Hexanone Concentration: 1.667 UG/KG



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Date : 26-FEB-2010 13:41

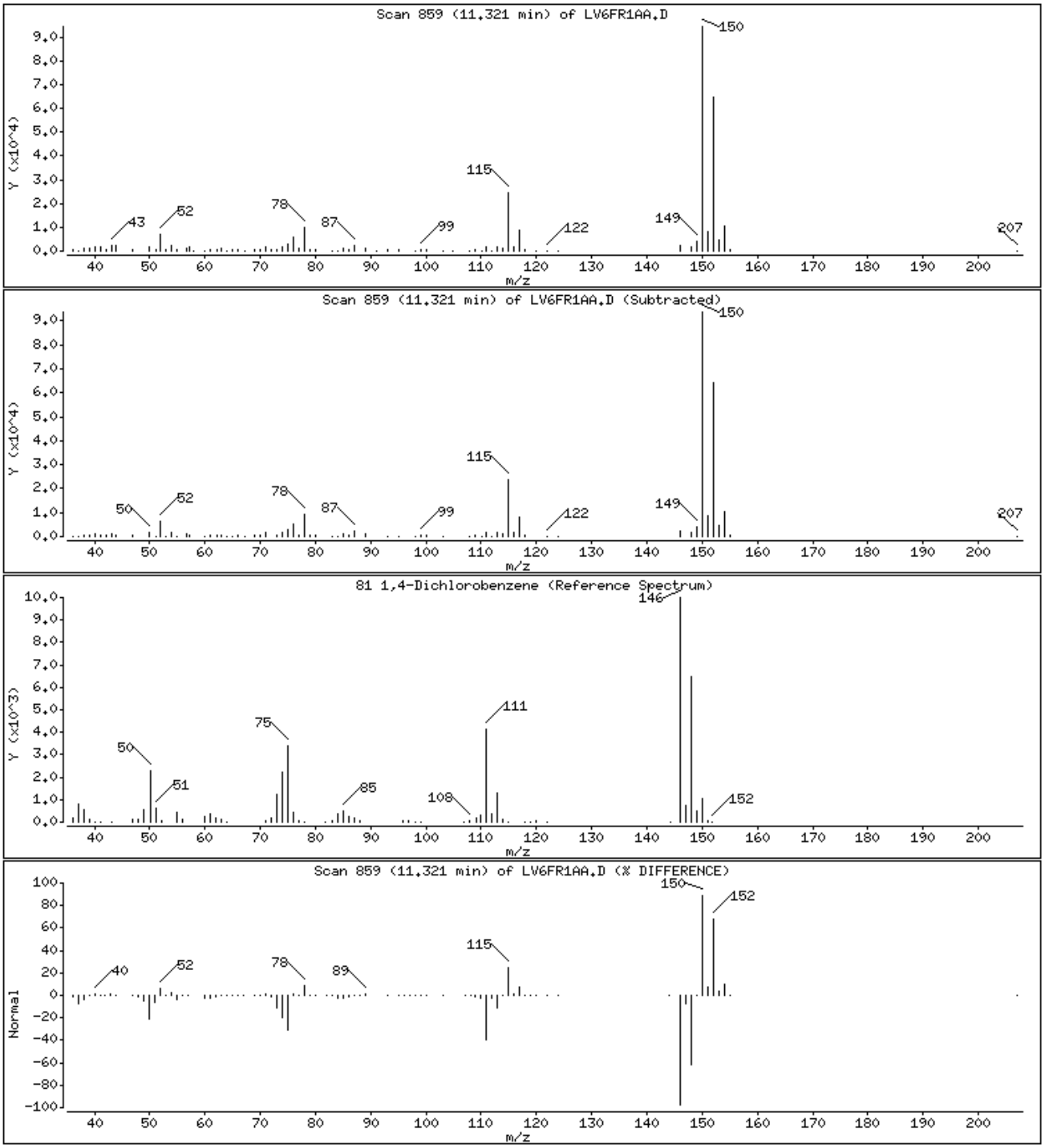
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

81 1,4-Dichlorobenzene Concentration: 0.2025 UG/KG



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Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

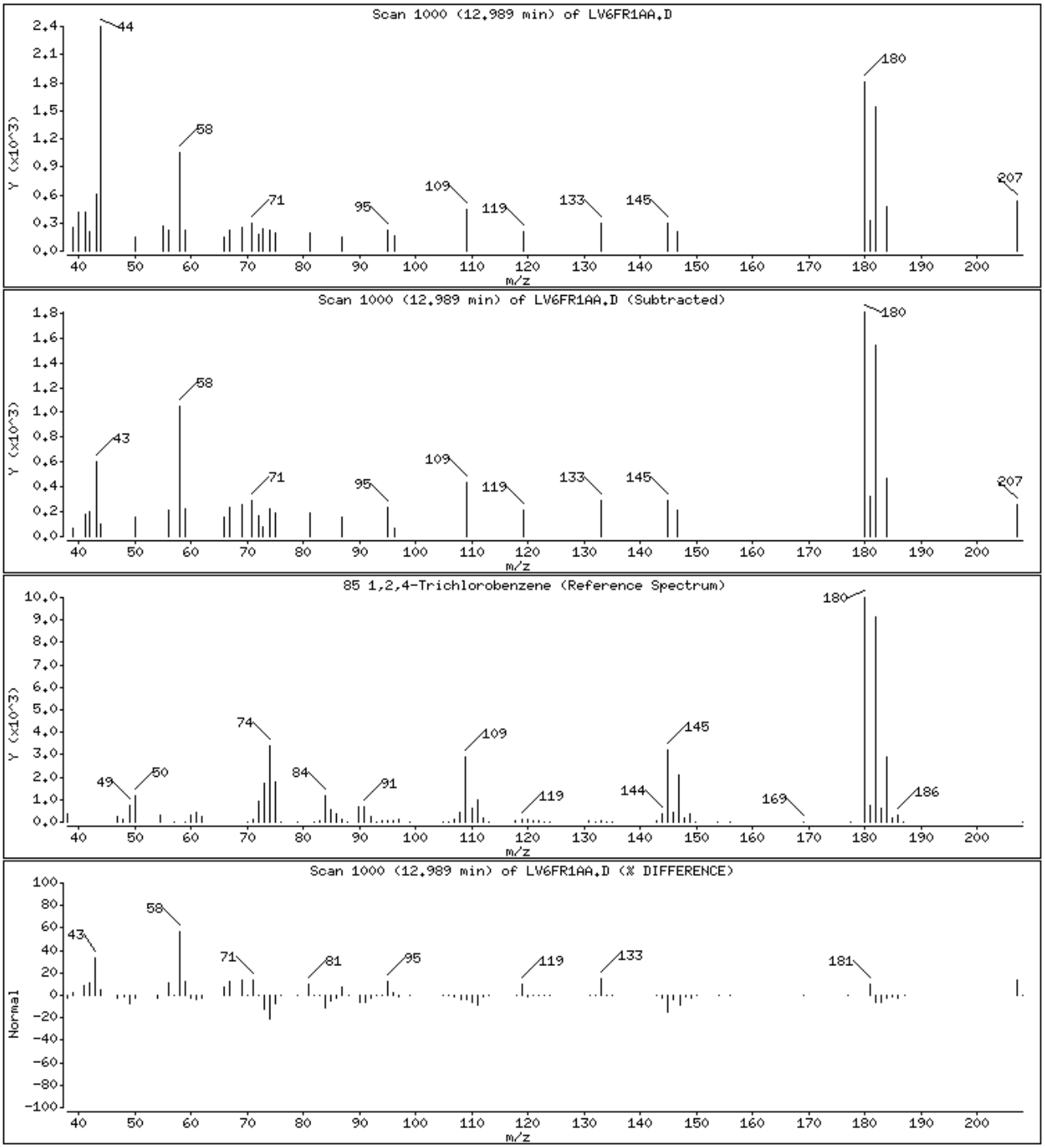
Operator: 2807

Column phase: DB624

Column diameter: 0.18

85 1,2,4-Trichlorobenzene

Concentration: 0.3029 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

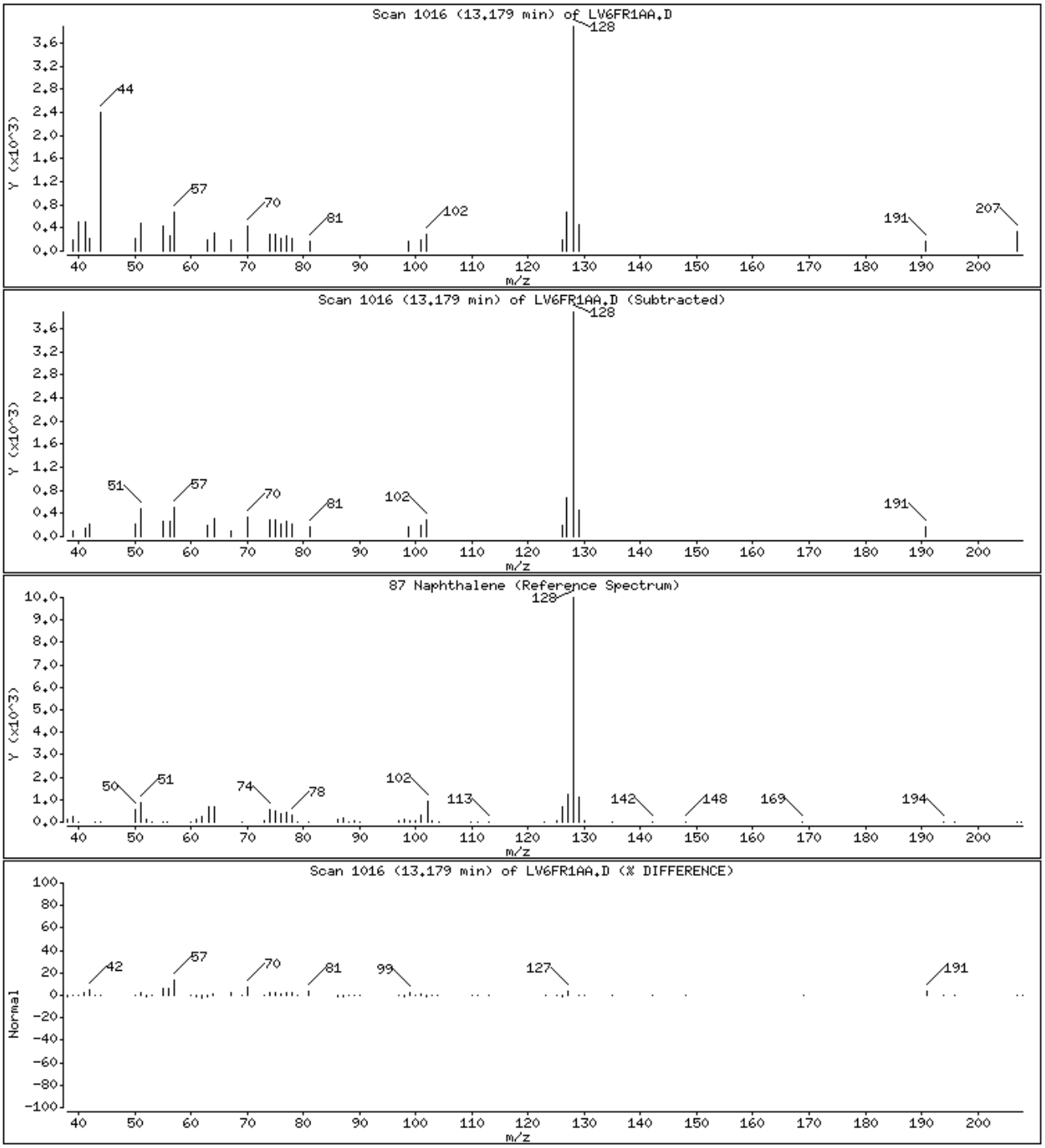
Operator: 2807

Column phase: DB624

Column diameter: 0.18

87 Naphthalene

Concentration: 0.2979 UG/KG



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Date : 26-FEB-2010 13:41

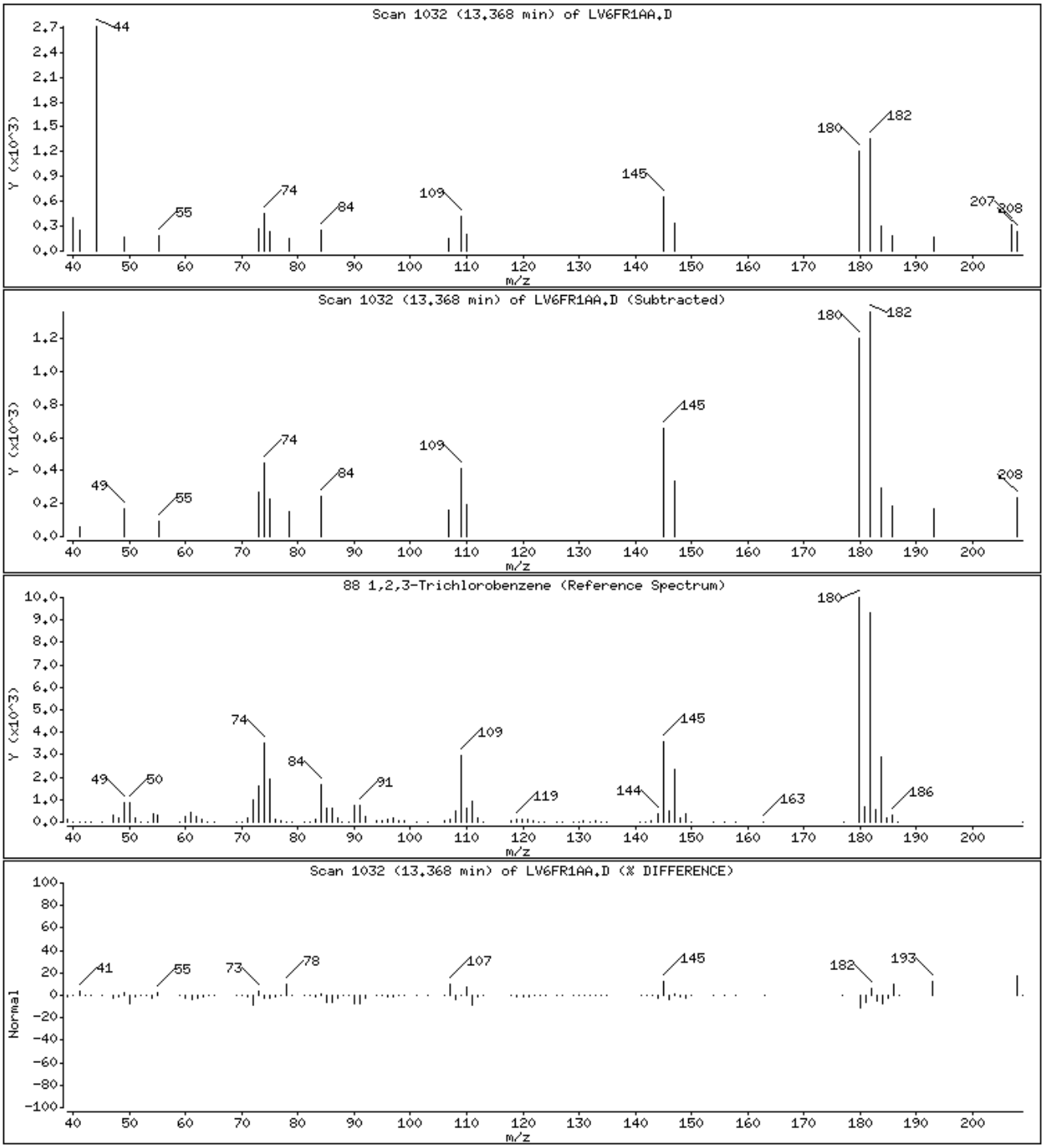
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

88 1,2,3-Trichlorobenzene Concentration: 0.2380 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

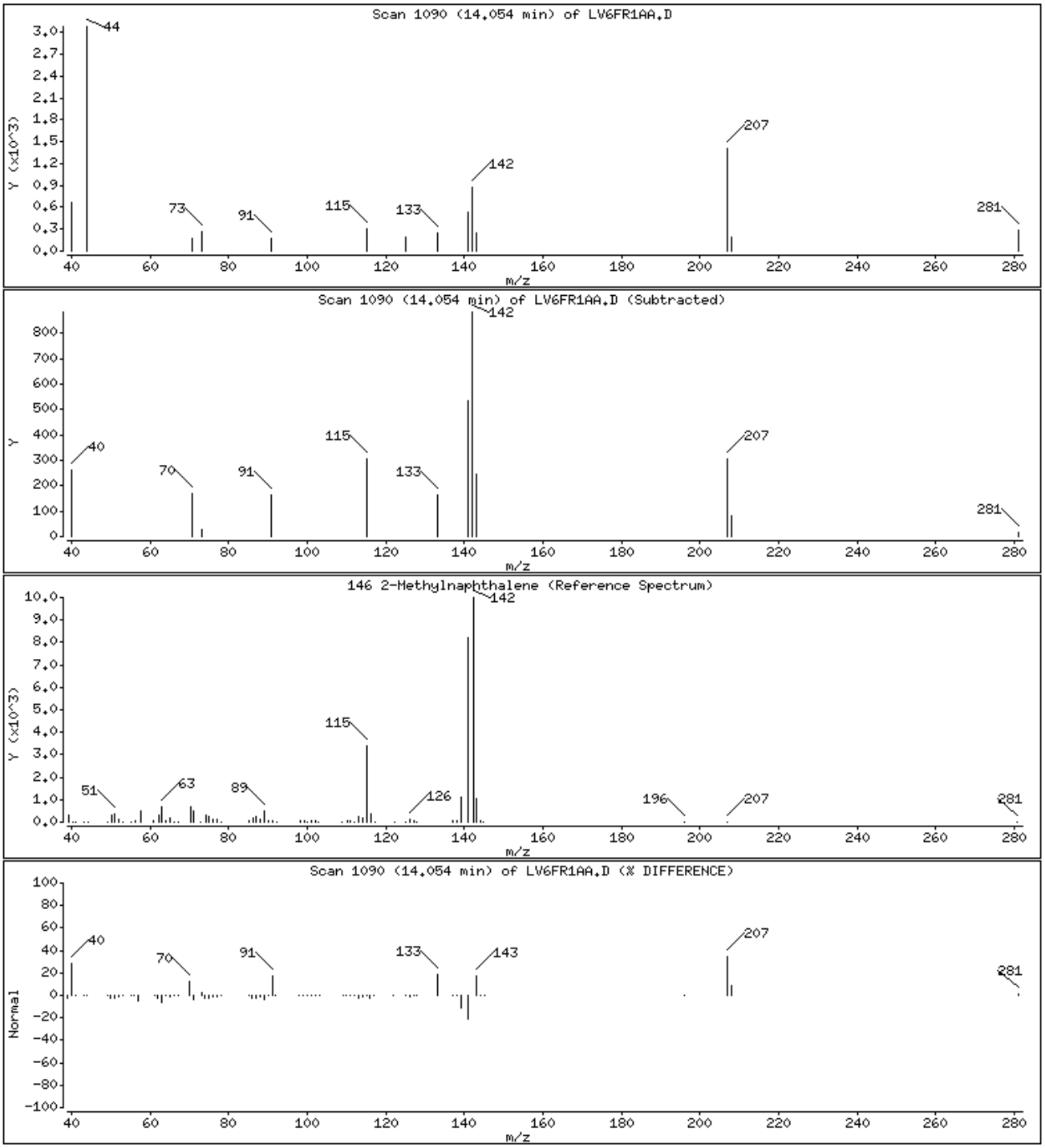
Operator: 2807

Column phase: DB624

Column diameter: 0.18

146 2-Methylnaphthalene

Concentration: 2.426 UG/KG



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Date : 26-FEB-2010 13:41

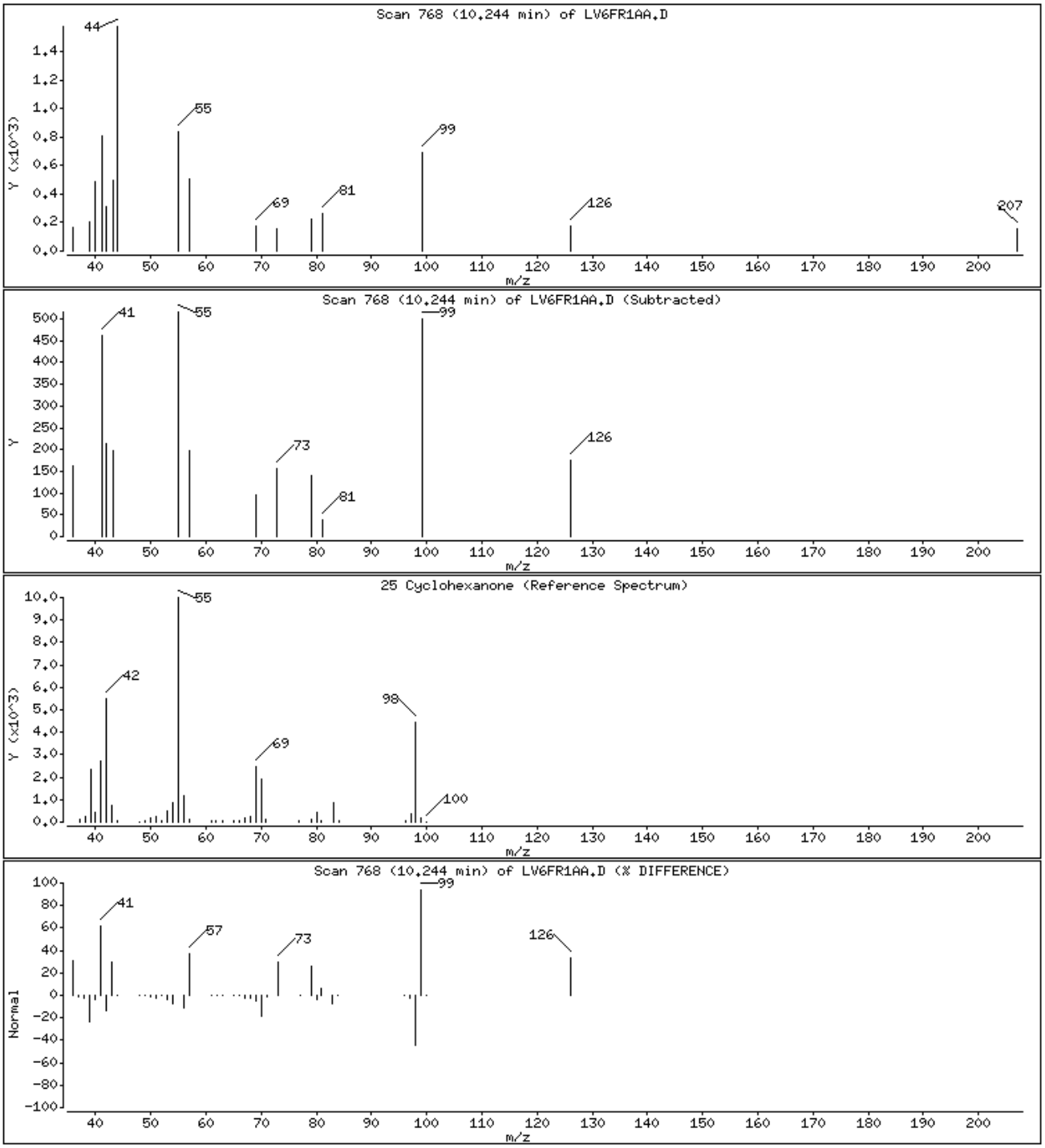
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

25 Cyclohexanone Concentration: 9.891 UG/KG



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Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

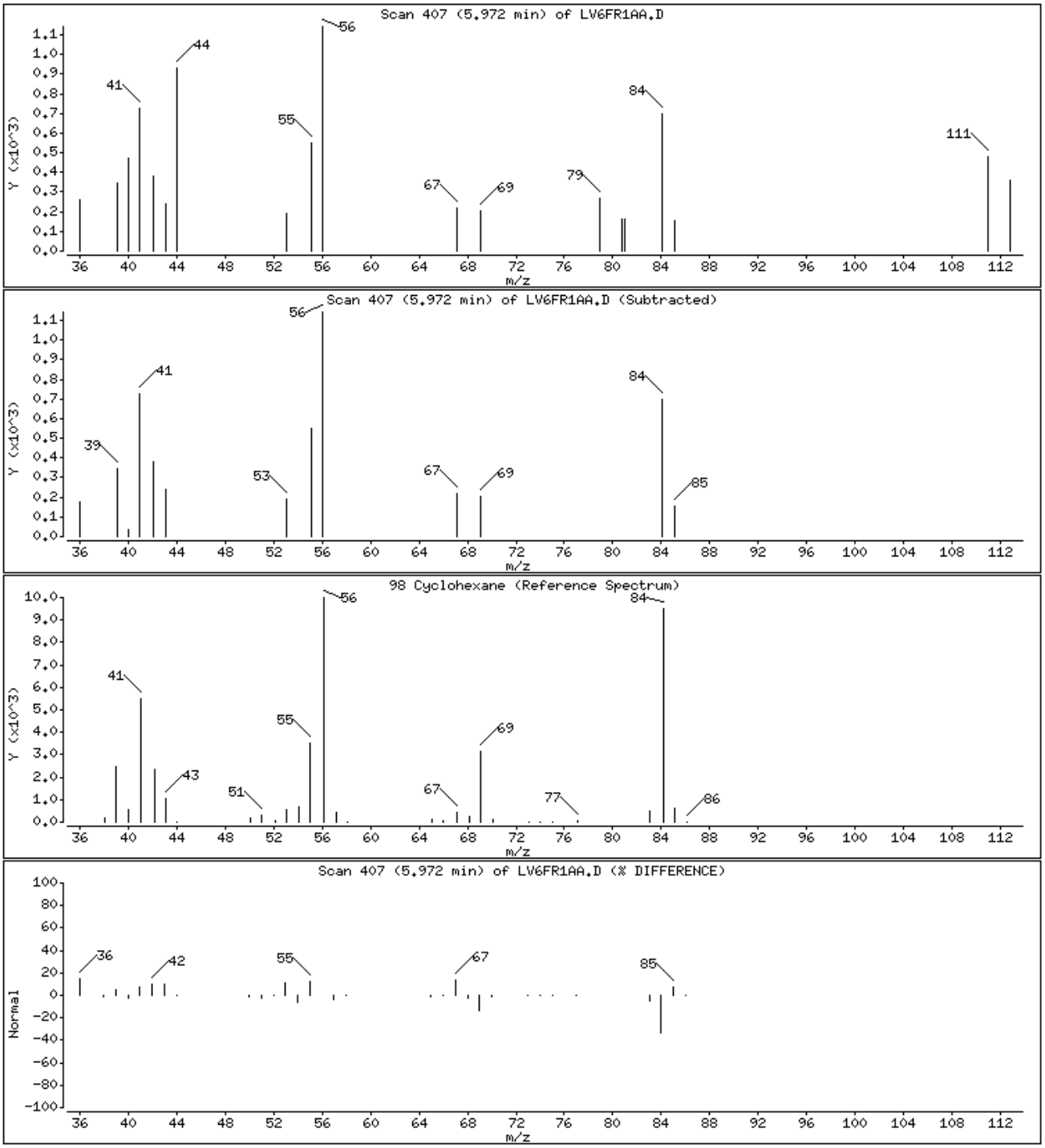
Operator: 2807

Column phase: DB624

Column diameter: 0.18

98 Cyclohexane

Concentration: 0.1739 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

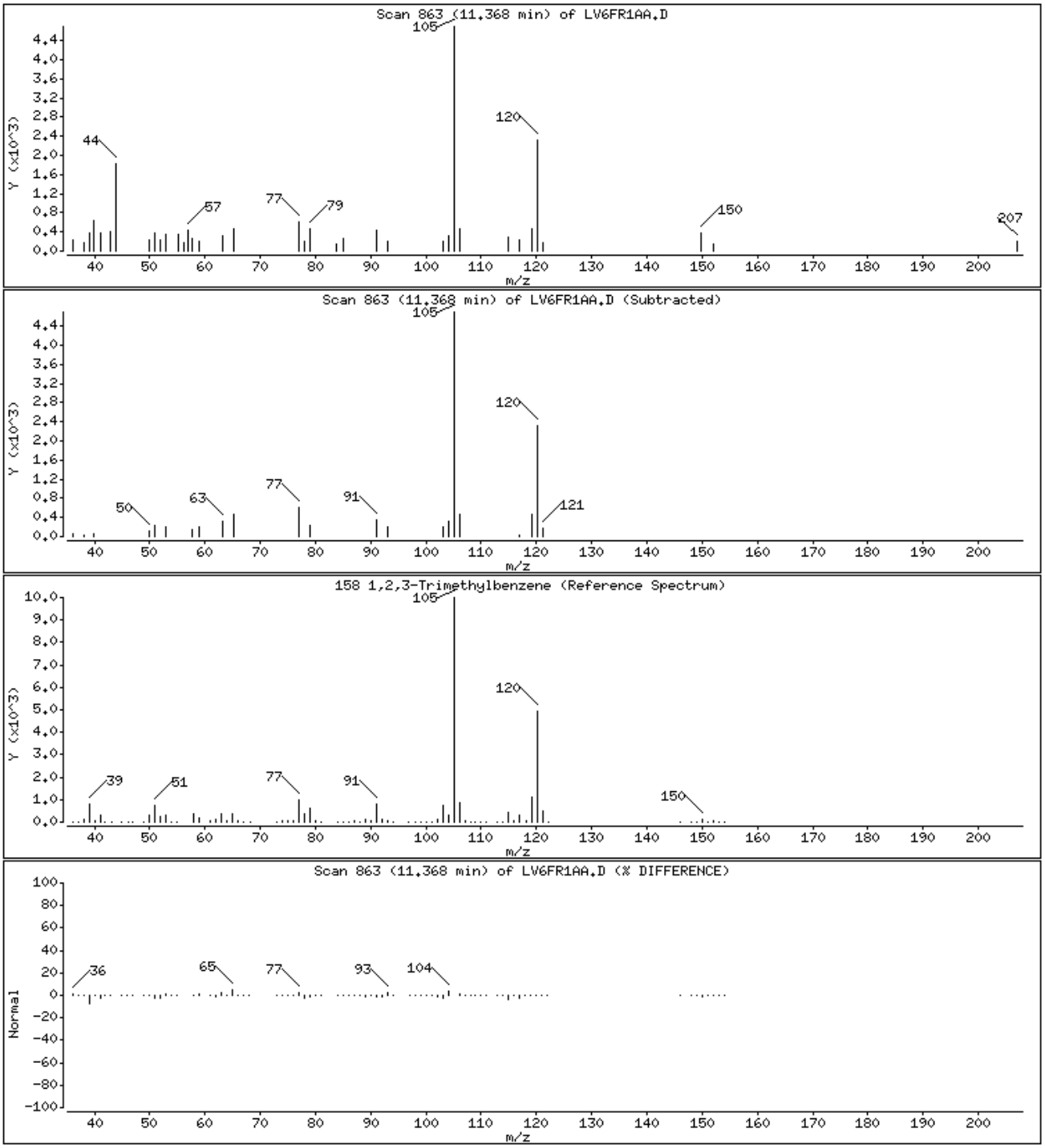
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

158 1,2,3-Trimethylbenzene Concentration: 0.2799 UG/KG



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

UX14
Batch # _____

TestAmerica-North Canton
GC/MS VOA Run Log

Date: 1-14-10

Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB-624	100 C for 1.5 min	35 C for 4 min	Trap: 10
Length 20 M	to 160 C @ 20 C/min	to 45 C @ 18 C/min	Purge: 11
I.D. 0.18 mm	Hold 0.5 min	to 190 C @ 18 C/min	Desorb: 2 min @210 C
Flow Rate .6 ml/min		to 225 C @ 25 C/min hold 1min	Bake: 6 min @ 225 C
He Press: 1000PSI	IS # V8315 SS # V8316	BFB# V8004 EXP 3/10/10	Heated purge (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status
—	BFB		BFB14310	50 ng	Direct Inj.	(1000)	OK
1	Blank		147351	5 mL/5 mL			OK
2	8260 STD		147352	1000 ng	V8401, V8399 V8404, V8403		OK
3			147353	500 ng			OK
4			147354	250 ng		R00114	OK
5			147355	100 ng			OK
6			147356	50 ng			OK
7			147357	25 ng			OK
8			147358	10 ng			OK
9			147359	5 ng			OK
10	ICV		147360	5 mL/5 mL	250 ng	(Not needed) V8397 FAS	~~OK~~
11	App IX STD		147361	250 ng	V8402, V8372	R00108-A9	OK
12	Bromomethane STD		147362	1000 ng	V8405		OK
13			147363	500 ng			OK
14			147364	250 ng		R00114-BL	OK
15			147365	100 ng			OK
16			147366	50 ng			OK
17			147367	25 ng			OK
18			147368	10 ng			OK
19			147369	5 ng			OK
20	Check		147370	5 g/5 mL	250 ng	V8397 FAS	OK
21	Check Prep ICV		147371				OK
22	VBLK		147372				OK
23	MDL 8260 - 0.5 ug/kg		147373	5 g/5 mL		V8401, V8399, V8403	OK
24	- 1 ug/kg		147374				OK
25	- 2.5 ug/kg		147375				OK
~~26~~			~~147376~~				
27			147377				
28			147378				
29			147379	SAMs			
30			~~147380~~	1-15-10			
31			147381				
32			147382				

Analyst: SAM

Level 2 review: K Date 1-18

Made pdf: _____

MLS / LLS

UX14 0060098-WA
Batch # 0060096

TestAmerica-North Canton
GC/MS VOA Run Log

3/1

Date: 2-26-10

Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB-624	100 C for 1.5 min	35 C for 4 min	Trap: 10
Length 20 M	to 160 C @ 20 C/min	to 45 C @ 18 C/min	Purge: 11
I.D. 0.18 mm	Hold 0.5 min	to 190 C @ 18 C/min	Desorb: 2 min @210 C
Flow Rate .6 ml/min		to 225 C @ 25 C/min hold 1min	Bake: 6 min @ 225 C
He Press: 2200PSI	IS # V8315 SS # V8316	BFB# V8004 Exp: 3/10/10	Heated purge: (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status	
—	BFB		BFB14339	50ng	Direct Inj.	(1048)	OK	
1	Blank		148212	5mL/5mL			Ok	
2	8260 STD		148213	250ng	V8492, V8488 V8444	R00114/R00114-BR	Ok	
3	APPIX STD		148214	250ng	V8493, V8498	R00108-AG	OK	
4	QCMRL		148215	5mL/5mL	25ng	V8492 2 out low 1 below 60% V8488, V8499	(R)	
5	Check LV6FPIAC	6FPIAC	148216	5g/5mL	250ng	LV6FRIAC V8503 FAS	Ok	
6	Check LV6FPIAD	6FPIAD	148217	↓	↓	LV6FRIAD ↓ 68.479	OK	
7	QCMRL		148218	5mL/5mL	25ng	V8503 V8504 V8499 3 out High	OK	
8	VBLK LV6FPIAA		148219	5g/5mL		LV6FRIAA	OK	
9	LVOMTIAC	4.48	148220	10mL/5mL	(0055147)	(ND) Prep 2/23 TIC-Butyl Acetate/Heptane (EIDi) Hexane 2/24	Ok	AOB230409
10	LV2AJIAC	6.45	148221	50mL/5mL	(0057120)	Prep 2/24 TIC-Butyl Acetate/Heptane 3/1	Ok	AOB240477
11	LV2AMIAC	6.40	148222	↓	↓	↓ ↓ ↓	OK	
12	LVOSQIAC		148223	5g/5mL		SS↓ (x2) 3/1	Ok	AOB230476
13	LVOSQIAC	(Dup)	148224	↓		SS↓ (x2) ↓		
14	LVTQ4IAC		148225	5g/5mL		(EIDi) 3/10	OK	AOB180429
15	LVVF6IAN		148226			↓ 3/11	OK	AOB180514
16	LV1EQIAD		148227			IS↓↓(x2) SS↑↑(x2) 3/3		AOB230510
17	LV1ERIAD		148228			↓	OK	
18	LV3JMIAC		148229			(EIDi) 3/4	OK	AOB250453
19	LV3KQIAC		148230			3/18	OK	AOB250463
20	LV3KRIAN SOT 2-24-10		148231				OK	
21	LV3LLIAC		148232			↓	OK	
22	LVWW9IAC		148233			IS↓ 3/12		AOB190524
23	LVWXCIAN		148234				OK	
24	LVWX1IAC		148235			IS↓↓		
25	LVWX8IAC		148236			IS↓ SS↑		
26	LVWX8	MS	148237		250ng	V8503 FAS		
27	LVWX8	MSD	148238		↓	↓ ↓ ↓		
28	LVO3VIAC		148239	↓		3/16	OK	AOB230467
29	QCMRL		148240	5mL/5mL	25ng		OK	
30	QCMDL		148241	↓	10ng		OK	
31	Blank		148242				OK	
32	Blank		148243	↓			OK	
33	LV1EQIAD		148244	5g/5mL		IS↓↓ (x2) SS↑ (x2) 3/3	OK	AOB230510

Analyst: SAM
Level 2 review: TS Date 3/1/10
Made pdf: ✓

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UX14
Batch # _____

TestAmerica-North Canton
GC/MS VOA Run Log

Date: 2-26-10

Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB-624	100 C for 1.5 min	35 C for 4 min	Trap: 10
Length 20 M	to 160 C @ 20 C/min	to 45 C @ 18 C/min	Purge: 11
I.D. 0.18 mm	Hold 0.5 min	to 190 C @ 18 C/min	Desorb: 2 min @210 C
Flow Rate .6 ml/min		to 225 C @ 25 C/min hold 1min	Bake: 6 min @ 225 C
He Press: 22.00psi	IS # V8315	SS # V8316	BFB# V8004 Exp: 3/10/10
			Heated purge: (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status
—	BFB		BFB14339	50 ng	Direct Inj.	(1048)	OK
1	Blank		148212	5 mL/5 mL			Ok
2	8260 STD		148213	25 ng	V8492, V8488 V8499	R00114/R00114-BR	Ok
3	APPIX STD		148214	250 ng	V8493, V8498	R00108-AG	Ok
4	QCMRL		148215	5 mL/5 mL	25 ng	V8492 2 out low 1 below 60% V8488, V8499	(K)
5	CHeck		148216	5g/5 mL	250 ng	V8503 FAS	Ok
6	CHarlyp		148217				OK
7	QCMRL		148218	5 mL/5 mL	25 ng	V8503, V8504 3 out High V8499	Ok
8	MBLa		148219	5g/5 mL			OK
9	LVOMTIAC	4.48	148220	100 mL/5 mL	(0055947)	(ND) Prep 2/23 TIC-Butyl Acetate/Hexane 2%	Ok
10	LV2AJIAC	6.45	148221	50 mL/5 mL	(0057120)	Prep 2/24 3/1	Ok
11	LV2AMIAC	6.40	148222			3/1	Ok
12	LVOSQIAC		148223	5g/5 mL		SS↓ (x2) 3/1	Ok
13	LVOSQIAC	(Dup)	148224			SS↓ (x2)	
14	LVTQ4IAC		148225	5g/5 mL			
15	LVVF6IAN		148226				
16	LVIEQIAD		148227				
17	LVIERIAD		148228				
18	LV3JMIAC		148229				
19	LV3KQIAC		148230				
20	LV3KRIAN	SOT 2-26-10	148231				
21	LV3LLIAC		148232				
22	LVWW9IAC		148233				
23	LVWXCIAN		148234				
24	LVWX1IAC		148235				
25	LVWX8IAC		148236				
26	LVWX8	MS	148237		250 ng	V8503 FAS	
27	LVWX8	MSD	148238				
28	LVO3VIAC		148239				
29	QCMRL		148240	5 mL/5 mL	25 ng		
30	QCMDL		148241		10 ng		
31	Blank		148242				
32	Blank		148243				

A08230409
A08230477
A08230476

Analyst: SAM
Level 2 review: TS Date 2/26/10

Made pdf: _____

Lot/SDG Number: **A0B250453**

Sample Control Chain of Custody - TAL North Canton
GC/MS Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0B250453	2	LV3JM1AC	Volatile Organics, GC/MS (8260B)	02/26/10	Steve Macenczak

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMS SEMIVOLATILE DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Cor

Lab Code: TALCAN SDG No:

Lot #: A0B250453

Extraction: XXA11QLLB

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	INTRA-LAB QC	54	58	89	69	69	69	00
02	LAB MS/MSD D	68	64	89	78	81	63	00
03	LAB MS/MSD S	69	65	93	75	79	71	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(24-112)
SRG02	= 2-Fluorobiphenyl	(34-110)
SRG03	= Terphenyl-d14	(41-119)
SRG04	= Phenol-d5	(28-110)
SRG05	= 2-Fluorophenol	(26-110)
SRG06	= 2,4,6-Tribromophenol	(10-118)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Cor

Lab Code: TALCAN SDG No:

Lot #: A0B250453

Extraction: XXA11QLWA

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	ATASB-008-5135-SO	61	64	84	71	73	48	00
02	METHOD BLK. LV4J31AA	71	69	93	76	80	64	00
03	LCS LV4J31AC	79	68	90	75	79	69	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(35-100)
SRG02	= 2-Fluorobiphenyl	(45-105)
SRG03	= Terphenyl-d14	(30-125)
SRG04	= Phenol-d5	(40-100)
SRG05	= 2-Fluorophenol	(35-105)
SRG06	= 2,4,6-Tribromophenol	(35-125)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4J31AC
BATCH: 0057040

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Acenaphthene	670	470	71	45- 110	
4-Chloro-3-methylphenol	670	550	82	45- 115	
2-Chlorophenol	670	500	75	45- 105	
1,4-Dichlorobenzene	670	510	76	35- 105	
2,4-Dinitrotoluene	670	560	83	50- 115	
4-Nitrophenol	670	530	80	15- 140	
N-Nitrosodi-n-propylamine	670	530	80	40- 115	
Pentachlorophenol	670	370	55	25- 120	
Phenol	670	520	78	40- 100	
Pyrene	670	540	81	45- 125	
1,2,4-Trichlorobenzene	670	500	76	45- 110	
bis(2-Ethylhexyl) phthala	670	590	88	45- 125	
Acenaphthylene	670	500	74	45- 105	
Anthracene	670	510	77	55- 105	
Benzo(a)anthracene	670	520	78	50- 110	
Benzo(b)fluoranthene	670	520	77	45- 115	
Benzo(k)fluoranthene	670	570	85	45- 125	
Benzo(ghi)perylene	670	570	86	40- 125	
Benzo(a)pyrene	670	470	71	50- 110	
bis(2-Chloroethoxy)methan	670	540	81	45- 110	
bis(2-Chloroethyl) ether	670	500	74	40- 105	
4-Bromophenyl phenyl ethe	670	490	74	45- 115	
Butyl benzyl phthalate	670	560	85	50- 125	
Carbazole	670	520	77	45- 115	
4-Chloroaniline	670	280	42	10- 95	
2-Chloronaphthalene	670	480	71	45- 105	
4-Chlorophenyl phenyl eth	670	490	74	45- 110	
Chrysene	670	520	79	55- 110	
Dibenzo(a,h)anthracene	670	560	84	40- 125	
Dibenzofuran	670	490	74	50- 105	
Di-n-butyl phthalate	670	550	83	55- 110	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4J31AC
BATCH: 0057040

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,2-Dichlorobenzene	670	500	76	45- 95	
1,3-Dichlorobenzene	670	470	71	40- 100	
3,3'-Dichlorobenzidine	670	290	44	10- 130	
2,4-Dichlorophenol	670	540	81	45- 110	
Diethyl phthalate	670	520	77	50- 115	
2,4-Dimethylphenol	670	430	65	30- 105	
Dimethyl phthalate	670	510	77	50- 110	
4,6-Dinitro-2-methylpheno	670	360	54	30- 135	
2,4-Dinitrophenol	670	290	43	15- 130	
2,6-Dinitrotoluene	670	540	81	50- 110	
Di-n-octyl phthalate	670	560	84	40- 130	
Fluoranthene	670	530	79	55- 115	
Fluorene	670	490	73	50- 110	
Hexachlorobenzene	670	490	73	45- 120	
Hexachlorobutadiene	670	500	75	40- 115	
Hexachlorocyclopentadiene	670	460	68	26- 105	
Hexachloroethane	670	470	71	35- 110	
Indeno(1,2,3-cd)pyrene	670	560	84	40- 120	
Isophorone	670	520	78	45- 110	
2-Methylnaphthalene	670	610	92	45- 105	
2-Methylphenol	670	510	76	40- 105	
Naphthalene	670	510	76	40- 105	
2-Nitroaniline	670	540	82	45- 120	
3-Nitroaniline	670	440	66	25- 110	
4-Nitroaniline	670	510	76	35- 115	
Nitrobenzene	670	530	79	40- 115	
2-Nitrophenol	670	510	76	40- 110	
N-Nitrosodiphenylamine	670	500	75	50- 115	
bis(2-Chloroisopropyl) et	670	530	79	20- 115	
Phenanthrene	670	490	74	50- 110	
2,4,5-Trichlorophenol	670	490	74	50- 110	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4J31AC
BATCH: 0057040

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
2,4,6-Trichlorophenol	670	500	75	45- 110	
Benzoic acid	670	ND	15	0- 110	
Benzyl alcohol	670	520	78	20- 125	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0B250428 WO #: LV3DA1A2
BATCH: 0057039

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
1,2,4-Trichlorobenzene	840	ND	580	69	33 - 110	
Acenaphthene	840	ND	600	72	10 - 200	
2,4-Dinitrotoluene	840	ND	700	83	42 - 118	
Pyrene	840	ND	720	87	10 - 200	
N-Nitrosodi-n-propylamine	840	ND	670	81	30 - 121	
1,4-Dichlorobenzene	840	ND	580	69	26 - 110	
Pentachlorophenol	840	ND	420	50	10 - 182	
Phenol	840	ND	720	86	10 - 144	
2-Chlorophenol	840	ND	630	76	32 - 110	
4-Chloro-3-methylphenol	840	ND	750	90	32 - 117	
4-Nitrophenol	840	ND	730	87	10 - 125	
Acenaphthylene	840	ND	620	74	10 - 200	
Anthracene	840	ND	640	77	10 - 200	
Benzo(a)anthracene	840	ND	700	83	10 - 200	
Benzo(b)fluoranthene	840	ND	650	78	10 - 200	
Benzo(k)fluoranthene	840	ND	690	82	10 - 200	
Benzo(ghi)perylene	840	ND	680	82	10 - 200	
Benzo(a)pyrene	840	ND	580	70	10 - 200	
bis(2-Chloroethoxy)methan	840	ND	640	76	36 - 110	
bis(2-Chloroethyl) ether	840	ND	710	85	32 - 118	
bis(2-Chloroisopropyl) et	840	ND	650	78	25 - 124	
bis(2-Ethylhexyl) phthala	840	90	860	92	10 - 200	
4-Bromophenyl phenyl ethe	840	ND	640	76	44 - 120	
Butyl benzyl phthalate	840	ND	770	92	43 - 138	
Carbazole	840	ND	640	77	10 - 162	
4-Chloroaniline	840	ND	480	57	11 - 110	
2-Chloronaphthalene	840	ND	580	70	40 - 110	
4-Chlorophenyl phenyl eth	840	ND	670	81	47 - 116	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0B250428 WO #: LV3DA1A2
BATCH: 0057039

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Chrysene	840	ND	670	80	10 - 200	
Dibenz(a,h)anthracene	840	ND	700	83	10 - 200	
Dibenzofuran	840	ND	640	77	10 - 200	
Di-n-butyl phthalate	840	ND	720	86	31 - 145	
1,2-Dichlorobenzene	840	ND	590	70	29 - 110	
1,3-Dichlorobenzene	840	ND	560	67	29 - 110	
3,3'-Dichlorobenzidine	840	ND	420	50	10 - 110	
2,4-Dichlorophenol	840	ND	690	82	33 - 110	
Diethyl phthalate	840	ND	670	80	48 - 118	
2,4-Dimethylphenol	840	ND	650	78	19 - 114	
Dimethyl phthalate	840	ND	670	80	47 - 116	
4,6-Dinitro-2-methylpheno	840	ND	200	23	10 - 110	
2,4-Dinitrophenol	840	ND	180	22	10 - 110	
2,6-Dinitrotoluene	840	ND	690	82	28 - 137	
Di-n-octyl phthalate	840	ND	830	99	10 - 182	
Fluoranthene	840	ND	690	83	10 - 200	
Fluorene	840	ND	660	79	10 - 187	
Hexachlorobenzene	840	ND	590	71	37 - 122	
Hexachlorobutadiene	840	ND	570	68	30 - 110	
Hexachlorocyclopentadiene	840	ND	0.0	0*	10 - 110	a
Hexachloroethane	840	ND	500	59	13 - 110	
Indeno(1,2,3-cd)pyrene	840	ND	690	82	10 - 200	
Isophorone	840	ND	620	75	32 - 129	
2-Methylnaphthalene	840	ND	770	92	10 - 200	
2-Methylphenol	840	ND	690	83	19 - 124	
Naphthalene	840	ND	610	73	10 - 200	
2-Nitroaniline	840	ND	730	87	31 - 141	
3-Nitroaniline	840	ND	600	71	24 - 110	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: A0B250428 WO #: LV3DA1A2
BATCH: 0057039

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
4-Nitroaniline	840	ND	660	79	23 - 124	
Nitrobenzene	840	ND	610	73	33 - 111	
2-Nitrophenol	840	ND	560	67	17 - 110	
N-Nitrosodiphenylamine	840	ND	620	74	10 - 169	
Phenanthrene	840	ND	620	74	10 - 200	
2,4,5-Trichlorophenol	840	ND	610	73	32 - 112	
2,4,6-Trichlorophenol	840	ND	600	71	22 - 110	
Benzoic acid	840	ND		14	10 - 200	
Benzyl alcohol	840	ND	670	80	10 - 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0B250428 WO #: LV3DA1A3
BATCH: 0057039

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	840	600	71	3.3		30	33 - 110	
Acenaphthene	840	590	70	2.6		30	10 - 200	
2,4-Dinitrotoluene	840	700	83	0.24		30	42 - 118	
Pyrene	840	680	82	5.7		30	10 - 200	
N-Nitrosodi-n-propylamine	840	680	81	0.85		30	30 - 121	
1,4-Dichlorobenzene	840	590	70	1.9		30	26 - 110	
Pentachlorophenol	840	300	36	34	*	30	10 - 182	p
Phenol	840	720	86	0.21		30	10 - 144	
2-Chlorophenol	840	660	78	3.6		30	32 - 110	
4-Chloro-3-methylphenol	840	760	90	0.46		30	32 - 117	
4-Nitrophenol	840	600	71	20		30	10 - 125	
Acenaphthylene	840	610	73	0.96		30	10 - 200	
Anthracene	840	650	77	1.2		30	10 - 200	
Benzo(a)anthracene	840	650	78	6.1		30	10 - 200	
Benzo(b)fluoranthene	840	640	77	1.0		30	10 - 200	
Benzo(k)fluoranthene	840	680	81	1.8		30	10 - 200	
Benzo(ghi)perylene	840	660	79	3.0		30	10 - 200	
Benzo(a)pyrene	840	580	69	1.3		30	10 - 200	
bis(2-Chloroethoxy)methan	840	660	78	3.1		30	36 - 110	
bis(2-Chloroethyl) ether	840	700	84	1.3		30	32 - 118	
bis(2-Chloroisopropyl) et	840	660	79	1.1		30	25 - 124	
bis(2-Ethylhexyl) phthala	840	800	84	7.5		30	10 - 200	
4-Bromophenyl phenyl ethe	840	650	77	1.5		30	44 - 120	
Butyl benzyl phthalate	840	730	87	5.1		30	43 - 138	
Carbazole	840	650	77	0.78		30	10 - 162	
4-Chloroaniline	840	450	54	5.3		30	11 - 110	
2-Chloronaphthalene	840	590	70	1.4		30	40 - 110	
4-Chlorophenyl phenyl eth	840	660	79	1.8		30	47 - 116	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0B250428 WO #: LV3DA1A3
BATCH: 0057039

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Chrysene	840	640	77	3.7		30	10- 200	
Dibenz(a,h)anthracene	840	670	79	4.7		30	10- 200	
Dibenzofuran	840	630	75	1.6		30	10- 200	
Di-n-butyl phthalate	840	710	84	1.7		30	31- 145	
1,2-Dichlorobenzene	840	600	72	2.7		30	29- 110	
1,3-Dichlorobenzene	840	560	67	0.18		30	29- 110	
3,3'-Dichlorobenzidine	840	390	46	6.3		30	10- 110	
2,4-Dichlorophenol	840	680	81	0.49		30	33- 110	
Diethyl phthalate	840	660	79	1.8		30	48- 118	
2,4-Dimethylphenol	840	690	82	5.6		30	19- 114	
Dimethyl phthalate	840	650	77	3.8		30	47- 116	
4,6-Dinitro-2-methylpheno	840	110	13	57	*	30	10- 110	p
2,4-Dinitrophenol	840	140	17	27		30	10- 110	
2,6-Dinitrotoluene	840	670	80	2.5		30	28- 137	
Di-n-octyl phthalate	840	780	93	6.3		30	10- 182	
Fluoranthene	840	700	84	1.8		30	10- 200	
Fluorene	840	630	75	3.9		30	10- 187	
Hexachlorobenzene	840	620	74	4.4		30	37- 122	
Hexachlorobutadiene	840	590	71	4.4		30	30- 110	
Hexachlorocyclopentadiene	840	0.0	0*	0.0		30	10- 110	a
Hexachloroethane	840	470	56	6.1		30	13- 110	
Indeno(1,2,3-cd)pyrene	840	650	78	5.0		30	10- 200	
Isophorone	840	650	78	4.5		30	32- 129	
2-Methylnaphthalene	840	790	94	2.5		30	10- 200	
2-Methylphenol	840	690	82	0.17		30	19- 124	
Naphthalene	840	630	75	2.8		30	10- 200	
2-Nitroaniline	840	740	88	1.1		30	31- 141	
3-Nitroaniline	840	520	62	13		30	24- 110	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0B250428 WO #: LV3DA1A3
BATCH: 0057039

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
4-Nitroaniline	840	610	73	7.7		30	23- 124	
Nitrobenzene	840	630	74	2.9		30	33- 111	
2-Nitrophenol	840	570	67	1.6		30	17- 110	
N-Nitrosodiphenylamine	840	630	75	1.8		30	10- 169	
Phenanthrene	840	640	76	3.2		30	10- 200	
2,4,5-Trichlorophenol	840	580	69	5.8		30	32- 112	
2,4,6-Trichlorophenol	840	530	64	11		30	22- 110	
Benzoic acid	840		15	5.8		30	10- 200	
Benzyl alcohol	840	710	85	5.8		30	10- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 65 outside limits
Spike Recovery: 1 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV4J31AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: LV4J31AA.

Lot Number: A0B250453

Date Analyzed: 03/01/10

Time Analyzed: 08:46

Matrix: SOLID

Date Extracted: 02/26/10

GC Column: DB-5.625 ID: .18

Extraction Method: 3540C

Instrument ID: AG2

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ATASB-008-5135-SO	LV3JM1AD	LV3JM1AD.	03/01/10	09:21
02	CHECK SAMPLE	LV4J31AC C	LV4J31AC.	03/01/10	09:04
03					
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COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250453

Lab File ID: 2DF0226 DFTPP Injection Date: 02/26/10

Instrument ID: A4AG2 DFTPP Injection Time: 1230

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	48.9
68	Less than 2.0% of mass 69	0.9 (1.7)1
69	Mass 69 relative abundance	52.8
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	25.0 - 75.0% of mass 198	56.3
197	Less than 1.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	29.2
365	Greater than 0.75% of mass 198	5.43
441	Present, but less than mass 443	13.0
442	40.0 - 110.0% of mass 198	90.8
443	15.0 - 24.0% of mass 442	16.7 (18.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD009	L9	2SHHH0226	02/26/10	1241
02	SSTD008	L8	2SHH0226	02/26/10	1258
03	SSTD007	L7	2SH0226	02/26/10	1315
04	SSTD006	L6	2SMH0226	02/26/10	1332
05	SSTD005	L5	2SMM0226	02/26/10	1350
06	SSTD004	L4	2SM0226	02/26/10	1407
07	SSTD003	L3	2SML0226	02/26/10	1426
08	SSTD002	L2	2SL0226	02/26/10	1443
09	SSTD001	L1	2SLL0226	02/26/10	1500
10					
11					
12					
13					
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22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250453

Lab File ID: 2DF0301 DFTPP Injection Date: 03/01/10

Instrument ID: A4AG2 DFTPP Injection Time: 0727

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	48.5
68	Less than 2.0% of mass 69	0.9 (1.7)1
69	Mass 69 relative abundance	51.7
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	55.8
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	28.7
365	Greater than 0.75% of mass 198	5.40
441	Present, but less than mass 443	12.5
442	40.0 - 110.0% of mass 198	87.8
443	15.0 - 24.0% of mass 442	15.9 (18.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD006	L6	2SMH0301	03/01/10	0738
02	LV4J3BLK	LV4J31AA	LV4J31AA	03/01/10	0846
03	LV4J3CHK	LV4J31AC	LV4J31AC	03/01/10	0904
04	ATASB-008-51	LV3JM1AD	LV3JM1AD	03/01/10	0921
05					
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250453

Lab File ID (Standard): 2SMH0301 Date Analyzed: 03/01/10

Instrument ID: A4AG2 Time Analyzed: 0738

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	274415		3.50		1113812		4.41		617736		5.69	
	UPPER LIMIT	548830		4.00		2227624		4.91		1235472		6.19	
	LOWER LIMIT	137208		3.00		556906		3.91		308868		5.19	
	EPA SAMPLE NO.												
01	LV4J3BLK	257668		3.50		1030281		4.40		613437		5.68	
02	LV4J3CHK	230614		3.50		916031		4.40		557390		5.69	
03	ATASB-008-51	150927		3.50		649650		4.40		428805		5.68	
04													
05													
06													
07													
08													
09													
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11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250453

Lab File ID (Standard): 2SMH0301 Date Analyzed: 03/01/10

Instrument ID: A4AG2 Time Analyzed: 0738

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1034596		6.79		1265955		8.77		1179942		10.19	
	UPPER LIMIT	2069192		7.29		2531910		9.27		2359884		10.69	
	LOWER LIMIT	517298		6.29		632978		8.27		589971		9.69	
	EPA SAMPLE NO.												
01	LV4J3BLK	1038713		6.78		1198108		8.76		1085870		10.18	
02	LV4J3CHK	947913		6.78		1091137		8.76		991326		10.18	
03	ATASB-008-51	778168		6.78		852857		8.77		863519		10.19	
04													
05													
06													
07													
08													
09													
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12													
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18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250453-002 **Work Order #...:** LV3JM1AD **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
Prep Date.....: 02/26/10 **Analysis Date..:** 03/01/10
Prep Batch #...: 0057040
Dilution Factor: 1 **Initial Wgt/Vol:** 30.18 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 5.9 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	53	ug/kg	3.5
Acenaphthylene	ND	53	ug/kg	3.5
Anthracene	ND	53	ug/kg	3.5
Benzo(a)anthracene	ND	53	ug/kg	3.5
Benzo(b)fluoranthene	ND	53	ug/kg	3.5
Benzo(k)fluoranthene	ND	53	ug/kg	3.5
Benzoic acid	ND	850	ug/kg	350
Benzo(ghi)perylene	ND	53	ug/kg	3.5
Benzo(a)pyrene	ND	53	ug/kg	3.5
Benzyl alcohol	ND	350	ug/kg	22
bis(2-Chloroethoxy) methane	ND	350	ug/kg	23
bis(2-Chloroethyl)-ether	ND	350	ug/kg	2.1
bis(2-Chloroisopropyl) ether	ND	350	ug/kg	10
bis(2-Ethylhexyl) phthalate	**25 J**	**350**	**ug/kg**	**20**
4-Bromophenyl phenyl ether	ND	350	ug/kg	14
Butyl benzyl phthalate	ND	350	ug/kg	11
Carbazole	ND	53	ug/kg	29
4-Chloroaniline	ND	350	ug/kg	18
4-Chloro-3-methylphenol	ND	350	ug/kg	22
2-Chloronaphthalene	ND	350	ug/kg	3.5
2-Chlorophenol	ND	350	ug/kg	29
4-Chlorophenyl phenyl ether	ND	350	ug/kg	14
Dibenzo(a,h)anthracene	ND	53	ug/kg	3.5
Dibenzofuran	ND	350	ug/kg	21
Di-n-butyl phthalate	ND	350	ug/kg	16
1,2-Dichlorobenzene	ND	350	ug/kg	10
1,3-Dichlorobenzene	ND	350	ug/kg	12
1,4-Dichlorobenzene	ND	350	ug/kg	21
3,3'-Dichlorobenzidine	ND	350	ug/kg	19
2,4-Dichlorophenol	ND	350	ug/kg	21
Diethyl phthalate	ND	350	ug/kg	17
2,4-Dimethylphenol	ND	350	ug/kg	21

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250453-002 **Work Order #...:** LV3JM1AD **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dimethyl phthalate	ND	350	ug/kg	18
4,6-Dinitro-2-methylphenol	ND	850	ug/kg	85
2,4-Dinitrophenol	ND	850	ug/kg	85
2,4-Dinitrotoluene	ND	350	ug/kg	29
2,6-Dinitrotoluene	ND	350	ug/kg	22
Di-n-octyl phthalate	ND	350	ug/kg	29
Fluoranthene	ND	53	ug/kg	3.5
Fluorene	ND	53	ug/kg	3.5
Hexachlorobenzene	ND	350	ug/kg	2.2
Hexachlorobutadiene	ND	350	ug/kg	29
Hexachlorocyclopenta-diene	ND	350	ug/kg	29
Hexachloroethane	ND	350	ug/kg	9.6
Indeno(1,2,3-cd)pyrene	ND	53	ug/kg	3.5
Isophorone	ND	350	ug/kg	14
2-Methylnaphthalene	ND	350	ug/kg	3.5
2-Methylphenol	ND	350	ug/kg	85
3-Methylphenol & 4-Methylphenol	ND	350	ug/kg	21
Naphthalene	ND	53	ug/kg	3.5
2-Nitroaniline	ND	850	ug/kg	9.7
3-Nitroaniline	ND	850	ug/kg	17
4-Nitroaniline	ND	850	ug/kg	28
Nitrobenzene	ND	350	ug/kg	2.3
2-Nitrophenol	ND	350	ug/kg	29
4-Nitrophenol	ND	850	ug/kg	85
N-Nitrosodiphenylamine	ND	350	ug/kg	22
N-Nitrosodi-n-propyl-amine	ND	350	ug/kg	29
Pentachlorophenol	ND	350	ug/kg	85
Phenanthrene	ND	53	ug/kg	3.5
Phenol	ND	350	ug/kg	29
Pyrene	ND	53	ug/kg	3.5
1,2,4-Trichloro-benzene	ND	350	ug/kg	29
2,4,5-Trichloro-phenol	ND	350	ug/kg	27
2,4,6-Trichloro-phenol	ND	350	ug/kg	85
Chrysene	ND	53	ug/kg	1.2

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250453-002 **Work Order #...:** LV3JM1AD **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	64	(45 - 105)
2-Fluorophenol	73	(35 - 105)
Phenol-d5	71	(40 - 100)
2,4,6-Tribromophenol	48	(35 - 125)
Nitrobenzene-d5	61	(35 - 100)
Terphenyl-d14	84	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\LV3JM1AD.D
Lab Smp Id: LV3JM1AD Client Smp ID: ATASB-008-5135-SO
Inj Date : 01-MAR-2010 09:21
Operator : 046900 Inst ID: a4ag2.i
Smp Info : LV3JM1AD,00301A.b,8270C-625,3-827042.SUB
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Meth Date : 01-Mar-2010 13:34 hulat Quant Type: ISTD
Cal Date : 26-FEB-2010 20:08 Cal File: 2NL0226.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.180	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1	1,4-Dichlorobenzene-d4	152	3.498	3.504	(1.000)	150927	2.00000		(Q)
* 2	Naphthalene-d8	136	4.404	4.410	(1.000)	649650	2.00000		
* 3	Acenaphthene-d10	164	5.680	5.686	(1.000)	428805	2.00000		
* 4	Phenanthrene-d10	188	6.780	6.786	(1.000)	778168	2.00000		
* 5	Chrysene-d12	240	8.768	8.774	(1.000)	852857	2.00000		
* 6	Perylene-d12	264	10.186	10.192	(1.000)	863519	2.00000		
198	1,4-Dioxane	88	Compound Not Detected.						
9	Pyridine	79	Compound Not Detected.						
10	N-Nitrosodimethylamine	74	Compound Not Detected.						
12	3-Chloropropionitrile	54	Compound Not Detected.						
209	Benzaldehyde	77	Compound Not Detected.						
21	Aniline	93	Compound Not Detected.						
22	Phenol	94	Compound Not Detected.						
23	bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24	2-Chlorophenol	128	Compound Not Detected.						
26	1,3-Dichlorobenzene	146	Compound Not Detected.						
27	1,4-Dichlorobenzene	146	Compound Not Detected.						
28	1,2-Dichlorobenzene	146	Compound Not Detected.						

29	Benzyl Alcohol	108	Compound Not Detected.
30	2-Methylphenol	108	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	Compound Not Detected.					
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	Compound Not Detected.					
63	1-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					
212	Atrazine	200	Compound Not Detected.					

111	Pentachlorophenol	266	Compound Not Detected.
115	Phenanthrene	178	Compound Not Detected.

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(ug/kg)
	116 Anthracene	178	Compound Not Detected.					
	119 Carbazole	167	Compound Not Detected.					
	120 Di-n-Butylphthalate	149	Compound Not Detected.					
	123 Fluoranthene	202	Compound Not Detected.					
	124 Benzidine	184	Compound Not Detected.					
	125 Pyrene	202	Compound Not Detected.					
	131 Butylbenzylphthalate	149	Compound Not Detected.					
	133 3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
	135 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	136 Benzo(a)Anthracene	228	Compound Not Detected.					
	137 Chrysene	228	Compound Not Detected.					
	138 4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
	139 bis(2-ethylhexyl)Phthalate	149	8.698	8.704	(0.992)	48481	0.17680	23.432(Q)
	140 Di-n-octylphthalate	149	Compound Not Detected.					
	141 Benzo(b)fluoranthene	252	Compound Not Detected.					
	142 Benzo(k)fluoranthene	252	Compound Not Detected.					
	146 Benzo(a)pyrene	252	Compound Not Detected.					
	149 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
	151 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$	154 Nitrobenzene-d5	82	3.880	3.886	(0.881)	408177	3.05442	404.83
$	155 2-Fluorobiphenyl	172	5.169	5.174	(0.910)	793546	3.17804	421.21
$	156 Terphenyl-d14	244	7.945	7.945	(0.906)	1142944	4.22236	559.62
$	157 Phenol-d5	99	3.210	3.210	(0.918)	586987	5.33261	706.77
$	158 2-Fluorophenol	112	2.628	2.622	(0.751)	445138	5.51248	730.61
$	159 2,4,6-Tribromophenol	330	6.263	6.268	(1.103)	121711	3.58481	475.12
$	186 2-Chlorophenol-d4	132	3.345	3.345	(0.956)	489493	5.69644	755.00
$	187 1,2-Dichlorobenzene-d4	152	3.610	3.616	(1.032)	184279	3.09831	410.64
M	195 Cresols, total	100	Compound Not Detected.					
	101 Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

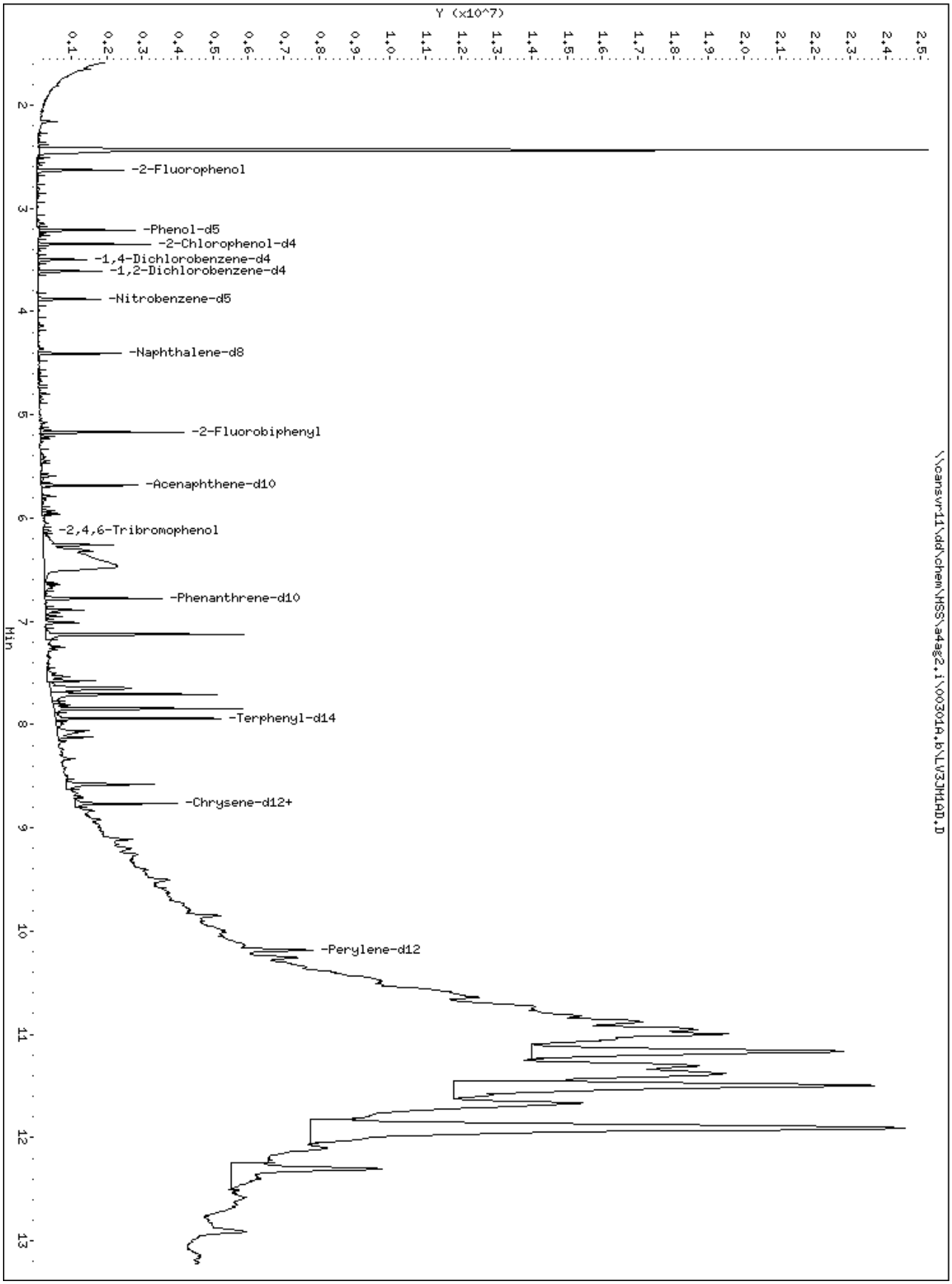
Instrument ID: a4ag2.i
Lab File ID: LV3JM1AD.D
Lab Smp Id: LV3JM1AD
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 07:38
Client Smp ID: ATASB-008-5135-SO
Level: LOW
Sample Type: SOIL

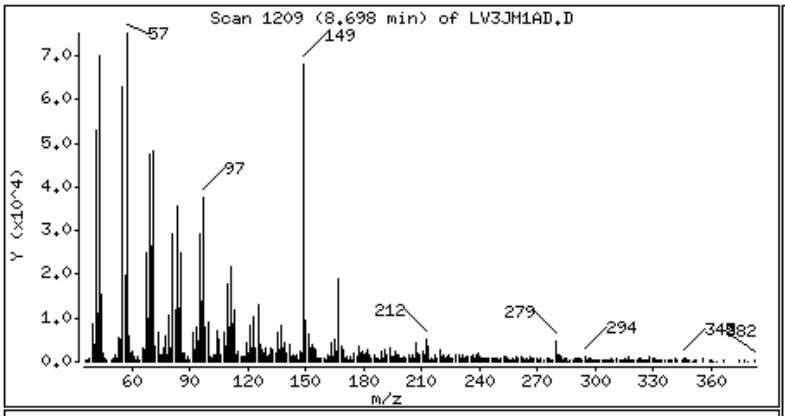
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	274415	137208	548830	150927	-45.00
2 Naphthalene-d8	1113812	556906	2227624	649650	-41.67
3 Acenaphthene-d10	617736	308868	1235472	428805	-30.58
4 Phenanthrene-d10	1034596	517298	2069192	778168	-24.79
5 Chrysene-d12	1265955	632978	2531910	852857	-32.63
6 Perylene-d12	1179942	589971	2359884	863519	-26.82

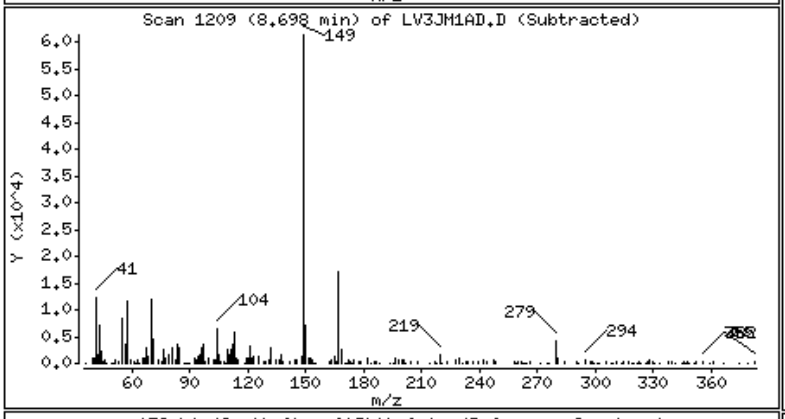
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.50	3.00	4.00	3.50	-0.16
2 Naphthalene-d8	4.41	3.91	4.91	4.40	-0.13
3 Acenaphthene-d10	5.69	5.19	6.19	5.68	-0.10
4 Phenanthrene-d10	6.79	6.29	7.29	6.78	-0.08
5 Chrysene-d12	8.77	8.27	9.27	8.77	-0.06
6 Perylene-d12	10.19	9.69	10.69	10.19	-0.06

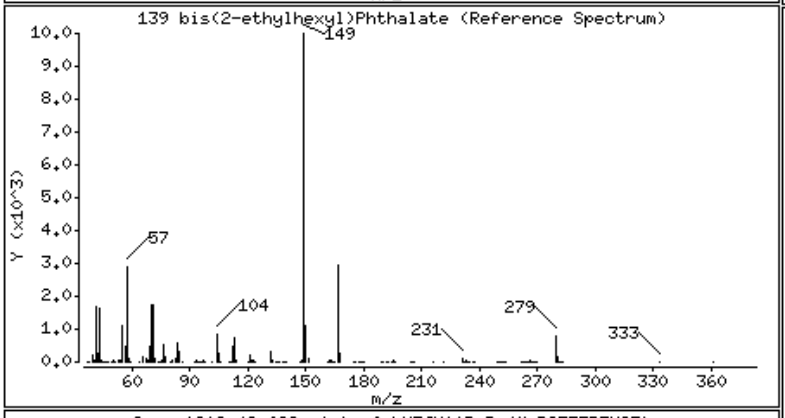
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

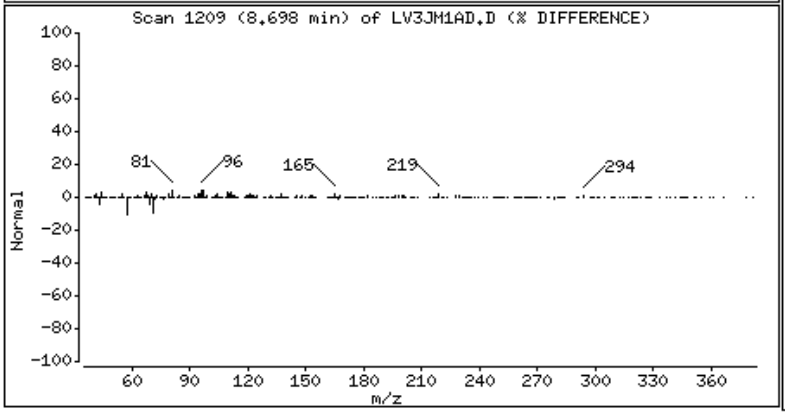

Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
Min
2
3
4
5
6
7
8
9
10
11
12
13
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
\\cansvr11\dd\chem\HSS\a4ag2.i\00301A.b\LW3JM10D.D

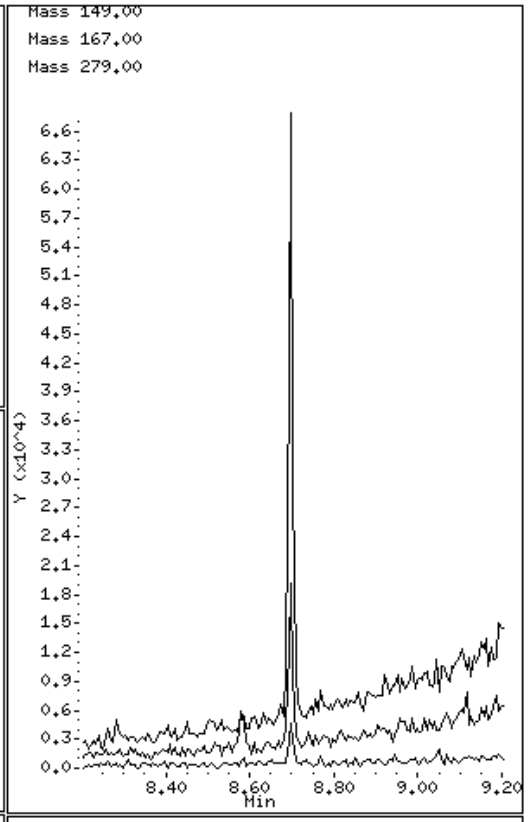
139 bis(2-ethylhexyl)Phthalate

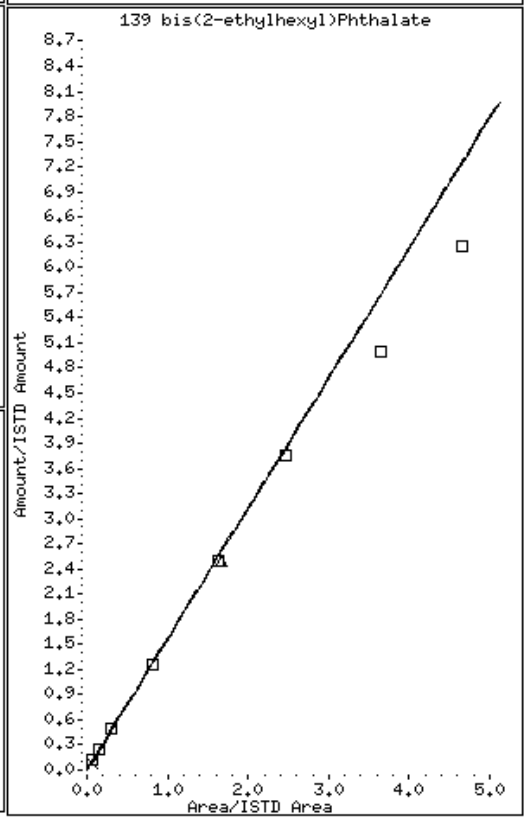












TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 28-Feb-2010 06:59

Calibration History

Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Start Cal Date: 26-FEB-2010 12:41
End Cal Date : 26-FEB-2010 20:08
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
26-FEB-2010 15:00	PAH	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SLL0226.D
Cal Level: 2 , Cal Amount: 0.25000		
26-FEB-2010 20:08	NMP	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NL0226.D
26-FEB-2010 17:36	2-AP9M	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AL0226.D
26-FEB-2010 14:43	3-827042	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SL0226.D
Cal Level: 3 , Cal Amount: 0.50000		
26-FEB-2010 19:54	NMP	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NML0226.D
26-FEB-2010 17:18	2-AP9M	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AML0226.D
26-FEB-2010 14:26	3-827042	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SML0226.D
Cal Level: 4 , Cal Amount: 1.00000		
26-FEB-2010 19:36	NMP	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NM0226.D
26-FEB-2010 17:01	2-AP9M	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AM0226.D
26-FEB-2010 14:07	3-827042	\\CANSVR11\dd\chem\MSS\a4ag2.i\00226A.b\2SM0226.D
Cal Level: 5 , Cal Amount: 2.50000		
26-FEB-2010 19:19	NMP	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NMM0226.D
26-FEB-2010 16:44	2-AP9M	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AMM0226.D
26-FEB-2010 13:50	3-827042	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SMM0226.D

Cal Level: 6 , Cal Amount: 5.00000		
26-FEB-2010 19:02	NMP	
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26-FEB-2010 16:27	2-AP9M	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AMH0226.D		
26-FEB-2010 13:32	3-827042	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SMH0226.D		

Cal Level: 7 , Cal Amount: 7.50000		
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26-FEB-2010 16:09	2-AP9M	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AH0226.D		
26-FEB-2010 13:15	3-827042	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SH0226.D		

Cal Level: 8 , Cal Amount: 10.00000		
26-FEB-2010 18:27	NMP	
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26-FEB-2010 15:52	2-AP9M	
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26-FEB-2010 12:58	3-827042	
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Cal Level: 9 , Cal Amount: 12.50000		
26-FEB-2010 18:10	NMP	
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26-FEB-2010 15:32	2-AP9M	
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26-FEB-2010 12:41	3-827042	
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Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

26-FEB-2010 15:18	3-827042	
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26-FEB-2010 19:02	NMP	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NMH0226.D		
26-FEB-2010 17:53	2-AP9M	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\ICVAP9.D		
26-FEB-2010 16:27	2-AP9M	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AMH0226.D		
26-FEB-2010 13:32	3-827042	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SMH0226.D		

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2010 12:41
End Cal Date : 26-FEB-2010 20:08
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SLL0226.D
Level 2: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NL0226.D
Level 3: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NML0226.D
Level 4: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NM0226.D
Level 5: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NMM0226.D
Level 6: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NMH0226.D
Level 7: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NH0226.D
Level 8: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NHH0226.D
Level 9: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NHHH0226.D

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
198 1,4-Dioxane	+++++	0.58094	0.53436	0.52031	0.56238	0.54927			
	0.52333	0.60790	0.54186				0.55254	5.436	<-
7 N-Nitrosomorpholine	+++++	0.74689	0.73981	0.74780	0.74186	0.79948			
	0.81745	0.88958	0.93269				0.80195	9.242	<-
8 Ethyl methanesulfonate	+++++	0.98323	0.99640	0.94471	0.95158	1.01043			
	1.02568	1.10205	1.10494				1.01488	6.019	<-
9 Pyridine	+++++	1.25129	1.34832	1.26155	1.27354	1.27726			
	1.36355	1.50632	1.46277				1.34308	7.211	<-
10 N-Nitrosodimethylamine	+++++	0.73228	0.74303	0.74045	0.76429	0.74533			
	0.74376	0.79757	0.82810				0.76185	4.426	<-
11 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
12 3-Chloropropionitrile	+++++	0.65386	0.65320	0.60786	0.65441	0.63630			
	0.66035	0.69972	0.69343				0.65739	4.467	<-
13 Malononitrile	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2010 12:41
End Cal Date : 26-FEB-2010 20:08
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	___ RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
14 2-Picoline	+++++	1.28099	1.34441	1.31510	1.26625	1.34820			
	1.33569	1.29336	1.35676				1.31760	2.580	<-
15 N-Nitrosomethylethylamine	+++++	0.69032	0.61503	0.59170	0.60072	0.62464			
	0.62633	0.67908	0.67826				0.63826	6.045	<-
16 Methyl methanesulfonate	+++++	0.83838	0.81457	0.80624	0.77236	0.82238			
	0.85867	0.88667	0.93301				0.84154	5.998	<-
18 1,3-Dichloro-2-propanol	+++++	1.32478	1.28095	1.31633	1.28547	1.38206			
	1.40454	1.44558	1.53625				1.37199	6.441	<-
19 N-Nitrosodiethylamine	+++++	0.63696	0.59267	0.59743	0.58462	0.60593			
	0.62436	0.64703	0.67745				0.62081	5.108	<-
21 Aniline	+++++	1.80412	1.77777	1.76837	1.87440	1.90530			
	1.91448	2.01071	2.18613				1.90516	7.323	<-
22 Phenol	+++++	1.45212	1.47899	1.45531	1.57621	1.51261			
	1.57679	1.66276	1.71038				1.55315	6.192	<-
23 bis(2-Chloroethyl)ether	1.44688	1.29682	1.15466	1.20530	1.28128	1.18556			
	1.22016	1.25681	1.25516				1.25585	6.770	
24 2-Chlorophenol	+++++	1.19840	1.18854	1.15570	1.26192	1.21460			
	1.24471	1.30808	1.34456				1.23956	5.120	<-
25 Pentachloroethane	+++++	0.43566	0.43455	0.44388	0.44302	0.46589			
	0.46985	0.48468	0.51690				0.46180	6.201	<-
26 1,3-Dichlorobenzene	+++++	1.30443	1.22815	1.25034	1.31433	1.26687			
	1.30613	1.37603	1.38909				1.30442	4.351	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2010 12:41
End Cal Date : 26-FEB-2010 20:08
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
27 1,4-Dichlorobenzene	+++++	1.28029	1.24080	1.22187	1.29089	1.25861			
	1.27780	1.35644	1.39171				1.28980	4.449	<-
28 1,2-Dichlorobenzene	+++++	1.21497	1.23538	1.17277	1.25392	1.19304			
	1.22657	1.30213	1.34832				1.24339	4.635	<-
29 Benzyl Alcohol	+++++	0.77334	0.79139	0.78151	0.80632	0.83211			
	0.85113	0.86223	0.89693				0.82437	5.293	<-
30 2-Methylphenol	+++++	1.11945	1.05321	1.07651	1.13404	1.09637			
	1.15584	1.16444	1.24627				1.13076	5.325	<-
31 bis(2-Chloroisopropyl)ether	+++++	1.41681	1.32203	1.34018	1.37140	1.36600			
	1.40377	1.46393	1.49031				1.39680	4.200	<-
32 N-Nitroso-di-n-propylamine	+++++	0.96029	1.02443	0.98258	1.06029	1.02602			
	1.07343	1.09599	1.14538				1.04605	5.777	<-
M 195 Cresols, total	+++++	2.21082	2.20664	2.19333	2.31968	2.29151			
	2.39460	2.44492	2.56143				2.32787	5.638	<-
192 4-Methylphenol	+++++	1.09138	1.15343	1.11681	1.18565	1.19514			
	1.23876	1.28048	1.31517				1.19710	6.493	<-
193 3-Methylphenol	+++++	1.00016	1.02299	1.06148	1.10749	1.19000			
	1.18107	1.37814	1.35062				1.16149	12.264	<-
34 Hexachloroethane	+++++	0.56069	0.49512	0.51462	0.56447	0.54151			
	0.54918	0.58945	0.59383				0.55111	6.183	<-
35 Nitrobenzene	0.42625	0.36865	0.34904	0.35574	0.36756	0.37596			
	0.37415	0.40829	0.41063				0.38181	7.009	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2010 12:41
End Cal Date : 26-FEB-2010 20:08
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
36 N-Nitrosopyrrolidine	+++++	0.56185	0.61748	0.59639	0.63951	0.66382			
	0.67528	0.74627	0.75998				0.65757	10.528	<-
37 Acetophenone	+++++	1.62750	1.65431	1.61733	1.72050	1.66979			
	1.74075	1.77832	1.85935				1.70848	4.853	<-
39 o-Toluidine	+++++	1.85612	1.89216	1.83867	1.91650	1.98620			
	1.97925	2.15039	2.01796				1.95466	5.205	<-
40 N-Nitrosopiperidine	+++++	0.15122	0.14647	0.14169	0.14386	0.15565			
	0.15569	0.16952	0.16622				0.15379	6.568	<-
41 Isophorone	+++++	0.63154	0.62084	0.63905	0.67216	0.65847			
	0.66774	0.72291	0.73134				0.66801	6.075	<-
42 2-Nitrophenol	+++++	0.13864	0.14186	0.14535	0.15688	0.15817			
	0.16225	0.17497	0.18313				0.15766	9.980	<-
43 2,4-Dimethylphenol	+++++	0.29618	0.31185	0.31683	0.33307	0.33255			
	0.34343	0.37410	0.39273				0.33759	9.541	<-
44 bis(2-Chloroethoxy)methane	+++++	0.32742	0.32890	0.32794	0.33982	0.33483			
	0.33210	0.36377	0.37049				0.34066	4.971	<-
45 O,O,O-Triethyl phosphorothioa	+++++	0.14600	0.15459	0.15179	0.15507	0.16388			
	0.16625	0.18259	0.18551				0.16321	8.818	<-
46 2,4-Toluenediamene	+++++	0.16794	0.16440	0.15945	0.16041	0.15127			
	+++++	+++++	+++++				0.16069	3.894	<-
47 1,3,5-Trichlorobenzene	+++++	0.26413	0.26026	0.26152	0.26859	0.26243			
	0.26865	0.29447	0.31020				0.27378	6.711	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

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End Cal Date : 26-FEB-2010 20:08
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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
48 2,4-Dichlorophenol	+++++	0.19514	0.20859	0.21424	0.23004	0.23000			
	0.23218	0.25167	0.25680				0.22733	9.194	<-
49 Benzoic Acid	+++++	+++++	0.09005	0.14386	0.17600	0.20251			
	0.21641	0.24026	0.24579				0.18784	29.780	<-
50 1,2,4-Trichlorobenzene	+++++	0.25954	0.25391	0.25412	0.26367	0.25996			
	0.26219	0.28218	0.29453				0.26626	5.425	<-
51 Naphthalene	0.99279	0.87443	0.86144	0.87190	0.90170	0.89161			
	0.90803	0.97314	1.01993				0.92166	6.325	
52 4-Chloroaniline	+++++	0.34156	0.35764	0.35492	0.37421	0.37422			
	0.38764	0.41939	0.39895				0.37607	6.756	<-
53 a,a-Dimethyl-phenethylamine	+++++	0.54031	0.59764	0.58743	0.69301	0.76309			
	0.77487	0.87803	0.83640				0.70885	17.520	<-
54 2,6-Dichlorophenol	+++++	0.20204	0.21371	0.20911	0.22071	0.23650			
	0.23928	0.26514	0.27066				0.23214	10.981	<-
55 Hexachloropropene	+++++	+++++	+++++	0.17828	0.18747	0.19874			
	0.21231	0.21512	0.23245				0.20406	9.715	<-
56 Hexachlorobutadiene	+++++	0.15687	0.15784	0.15504	0.15901	0.15756			
	0.16251	0.17670	0.18297				0.16356	6.358	<-
57 1,2,3-Trichlorobenzene	+++++	0.25425	0.24461	0.23262	0.24626	0.23993			
	0.24485	0.26608	0.27486				0.25043	5.578	<-
58 N-Nitrosodi-n-butylamine	+++++	0.21708	0.22855	0.22606	0.22838	0.24770			
	0.24532	0.27304	0.26806				0.24177	8.458	<-

TestAmerica North Canton

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Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
59 4-Chloro-3-Methylphenol	+++++	+++++	0.23145	0.25049	0.27792	0.27166			
	0.27614	0.30156	0.30568				0.27356	9.615	<-
60 p-Phenylene diamine	+++++	+++++	0.18260	0.21225	0.25782	0.28119			
	0.25434	+++++	+++++				0.23764	16.643	<-
61 Safrole	+++++	0.22389	0.23954	0.22545	0.22860	0.24081			
	0.24316	0.27053	0.27559				0.24345	8.091	<-
62 2-Methylnaphthalene	0.52310	0.48513	0.48071	0.48850	0.50577	0.49651			
	0.50376	0.53723	0.57255				0.51036	5.797	
63 1-Methylnaphthalene	0.62893	0.56002	0.55659	0.55361	0.57519	0.57171			
	0.58153	0.62491	0.65424				0.58964	6.238	
64 Hexachlorocyclopentadiene	+++++	0.25098	0.27106	0.28584	0.32473	0.35668			
	0.37492	0.40048	0.43330				0.33725	19.296	<-
65 1,2,4,5-Tetrachlorobenzene	+++++	0.48649	0.44839	0.44533	0.43884	0.45619			
	0.47255	0.49058	0.55402				0.47405	7.920	<-
66 2,4,6-Trichlorophenol	+++++	0.25047	0.27263	0.27293	0.31658	0.31512			
	0.32035	0.33735	0.34727				0.30409	11.357	<-
67 2,4,5-Trichlorophenol	+++++	0.23727	0.30498	0.28831	0.31805	0.33376			
	0.33655	0.35352	0.36579				0.31728	12.887	<-
68 1,2,3,5-Tetrachlorobenzene	+++++	0.47860	0.46412	0.46122	0.48956	0.51123			
	0.53540	0.56562	0.61698				0.51534	10.589	<-
69 1,4-Dinitrobenzene	+++++	+++++	0.10554	0.12047	0.15086	0.17187			
	0.16806	0.17885	0.19348				0.15559	20.590	<-

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Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
70 2-Chloronaphthalene	1.03467	0.96605	0.94164	0.90625	0.96132	0.96082			
	0.97022	1.02458	1.06157				0.98079	5.039	
71 Isosafrole 1	+++++	0.14310	0.13846	0.14075	0.13673	0.14575			
	0.14990	0.15619	0.17175				0.14783	7.815	<-
M 188 Isosafrole, Total	+++++	0.87260	0.94652	0.94191	0.93121	0.97986			
	1.01910	1.08459	1.18059				0.99455	9.873	<-
72 Isosafrole 2	+++++	0.72949	0.80806	0.80116	0.79448	0.83411			
	0.86920	0.92839	1.00884				0.84672	10.340	<-
73 2-Nitroaniline	+++++	0.29105	0.31586	0.32574	0.36835	0.37215			
	0.38023	0.40400	0.40955				0.35837	11.966	<-
74 1,2,3,4-Tetrachlorobenzene	+++++	0.45622	0.44238	0.42921	0.45479	0.47661			
	0.49539	0.52262	0.57139				0.48108	9.814	<-
75 1,4-Naphthoquinone	+++++	+++++	0.29938	0.31736	0.35159	0.37253			
	0.36033	0.39808	0.37085				0.35288	9.633	<-
76 Dimethylphthalate	+++++	1.10387	1.09075	1.03835	1.15923	1.14611			
	1.14920	1.23819	1.24786				1.14670	6.208	<-
77 m-Dinitrobenzene	+++++	+++++	0.14549	0.15056	0.17424	0.19121			
	0.18936	0.20817	0.21357				0.18180	14.557	<-
78 2,6-Dinitrotoluene	+++++	0.21070	0.21972	0.22226	0.25877	0.26983			
	0.26764	0.28376	0.28416				0.25210	11.884	<-
79 Acenaphthylene	1.50278	1.56117	1.52419	1.51449	1.63452	1.64986			
	1.64980	1.75499	1.82792				1.62441	6.910	

TestAmerica North Canton

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Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD
	7.500 Level 7	10.000 Level 8	12.500 Level 9					
80 1,2-Dinitrobenzene	+++++	0.10688	0.11201	0.11759	0.13039	0.13334		
	0.13198	0.14033	0.13989				0.12655	10.072 <-
81 3-Nitroaniline	+++++	0.20224	0.24895	0.24286	0.27696	0.29678		
	0.29373	0.31279	0.30936				0.27296	14.128 <-
82 Acenaphthene	1.03539	1.05146	1.00314	0.96579	1.03507	1.06410		
	1.09371	1.13855	1.22296				1.06780	7.158
83 2,4-Dinitrophenol	+++++	+++++	+++++	0.11817	0.16329	0.19121		
	0.21542	0.21730	0.24799				0.19223	23.951 <-
84 Pentachlorobenzene	+++++	0.41880	0.40897	0.38849	0.39160	0.41624		
	0.42563	0.45492	0.50045				0.42564	8.613 <-
85 4-Nitrophenol	+++++	+++++	+++++	0.12467	0.20046	0.23550		
	0.20827	0.23570	0.27051				0.21252	23.347 <-
86 Dibenzofuran	1.40235	1.38331	1.36286	1.33140	1.42029	1.44984		
	1.43749	1.52444	1.59328				1.43392	5.685
87 2,4-Dinitrotoluene	+++++	0.24358	0.31389	0.32327	0.36042	0.36886		
	0.36659	0.39544	0.38511				0.34464	14.362 <-
88 2,3,4,6-Tetrachlorophenol	+++++	+++++	0.14585	0.18121	0.22807	0.26340		
	0.25744	0.27500	0.30411				0.23644	23.524 <-
89 1-Naphthylamine	+++++	0.91695	0.96689	0.96072	0.95193	0.94559		
	0.80957	+++++	+++++				0.92528	6.406 <-
90 Zinophos	+++++	0.22979	0.25778	0.26014	0.26561	0.29365		
	0.28338	0.31420	0.31441				0.27737	10.654 <-

TestAmerica North Canton

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Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
91 2,3,5,6-Tetrachlorophenol	+++++	+++++	0.24923	0.24639	0.28040	0.29636			
	0.30483	0.32293	0.33670				0.29098	11.884	<-
92 2-Naphthylamine	+++++	0.91459	1.02012	1.01641	0.97103	0.95711			
	0.79899	0.79631	0.69821				0.89660	13.202	<-
93 Diethylphthalate	+++++	1.22375	1.16840	1.15416	1.22150	1.25387			
	1.25332	1.32108	1.35126				1.24342	5.466	<-
94 Fluorene	1.21313	1.16500	1.13423	1.10196	1.20809	1.21241			
	1.27146	1.32175	1.42545				1.22816	8.100	
95 4-Chlorophenyl-phenylether	+++++	0.55887	0.53264	0.52994	0.55437	0.56450			
	0.57547	0.61533	0.64334				0.57181	6.881	<-
96 4-Nitroaniline	+++++	0.20038	0.26294	0.26746	0.31251	0.31924			
	0.33352	0.34796	0.37118				0.30190	18.291	<-
97 5-Nitro-o-toluidine	+++++	+++++	0.25703	0.26800	0.29301	0.31240			
	0.28348	0.30064	0.30110				0.28795	6.846	<-
98 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	0.09668	0.11769	0.12664			
	0.13019	0.14054	0.14816				0.12665	14.327	<-
99 N-Nitrosodiphenylamine	+++++	0.46932	0.48354	0.48518	0.50076	0.50112			
	0.52367	0.55870	0.57236				0.51183	7.219	<-
100 1,2-Diphenylhydrazine	+++++	0.82779	0.84773	0.85968	0.91420	0.90979			
	0.94620	1.01953	1.02132				0.91828	8.059	<-
101 Diphenylamine	+++++	0.46932	0.48354	0.48518	0.50076	0.50112			
	0.52367	0.55870	0.57236				0.51183	7.219	<-

TestAmerica North Canton

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Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
102 Tetraethyl dithiopyrophosphat	+++++	0.07428	0.08308	0.07661	0.08351	0.09097			
	0.09424	0.10355	0.10862				0.08936	13.786	<-
103 Diallate 1	+++++	0.52829	0.50964	0.49701	0.50307	0.52672			
	0.55677	0.61065	+++++				0.53316	7.421	<-
M 189 Diallate, Total	+++++	2.49970	2.50357	2.42878	2.51393	2.81904			
	2.76361	3.28304	3.20580				2.75218	12.122	<-
104 Phorate	+++++	0.13639	0.13455	0.12763	0.13534	0.14314			
	0.15165	0.16406	0.17357				0.14579	11.000	<-
105 1,3,5-Trinitrobenzene	+++++	+++++	0.03875	0.04256	0.06573	0.07559			
	0.07792	0.08231	0.08385				0.06667	28.114	<-
106 4-Bromophenyl-phenylether	+++++	0.18325	0.17984	0.18077	0.19352	0.19759			
	0.20909	0.22284	0.23316				0.20001	10.014	<-
107 Hexachlorobenzene	+++++	0.20638	0.18782	0.19508	0.20767	0.20788			
	0.22131	0.23546	0.25215				0.21422	9.899	
108 Phenacetin	+++++	+++++	0.25327	0.28678	0.33670	0.37941			
	0.41037	0.42421	0.45732				0.36401	20.585	<-
109 Diallate 2	+++++	0.10443	0.09804	0.09726	0.09819	0.10300			
	0.10708	0.11707	0.10993				0.10438	6.580	<-
110 Dimethoate	+++++	0.18399	0.22093	0.23158	0.24467	0.23449			
	0.24284	0.26598	0.21689				0.23017	10.474	<-
111 Pentachlorophenol	+++++	+++++	0.10097	0.11110	0.13019	0.14035			
	0.15902	0.15630	0.18293				0.14012	20.446	<-

TestAmerica North Canton

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
112 Pentachloronitrobenzene	+++++	0.08554	0.08899	0.08701	0.09151	0.10294			
	0.10871	0.11360	0.12786				0.10077	15.061	<-
113 4-Aminobiphenyl	+++++	0.56239	0.60407	0.61643	0.62825	0.63714			
	0.59717	+++++	+++++				0.60758	4.381	<-
114 Pronamide	+++++	0.25927	0.27053	0.27809	0.29855	0.33763			
	0.35293	0.37612	0.40482				0.32224	16.609	<-
115 Phenanthrene	1.03976	1.00827	0.96731	0.95669	1.03137	1.02053			
	1.07041	1.14062	1.21611				1.05012	7.883	
116 Anthracene	0.98852	0.94199	0.95537	0.96243	1.03169	1.03747			
	1.09631	1.17721	1.25397				1.04944	10.246	
117 Dinoseb	+++++	+++++	0.03649	0.05322	0.10486	0.13685			
	0.16500	0.15824	+++++				0.10911	49.733	<-
118 Disulfoton	+++++	0.29644	0.31808	0.31210	0.32920	0.34475			
	0.35569	0.39849	0.40583				0.34507	11.535	<-
119 Carbazole	+++++	0.85909	0.90368	0.91047	0.97725	0.97324			
	1.01154	1.08951	1.13470				0.98243	9.595	<-
120 Di-n-Butylphthalate	+++++	1.03233	1.08639	1.10476	1.23041	1.24386			
	1.30455	1.39369	+++++				1.19943	10.838	<-
121 4-Nitroquinoline 1-oxide	+++++	+++++	0.03181	0.03582	0.07238	0.09035			
	0.10356	0.09708	0.10651				0.07679	40.897	<-
122 Methapyrilene	+++++	0.20930	0.24404	0.23666	0.26232	0.25383			
	0.24761	0.31718	+++++				0.25299	13.003	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
123 Fluoranthene	1.15294	0.97720	0.98228	1.02976	1.11249	1.11066			
	1.19019	1.27767	1.29754				1.12564	10.405	
124 Benzidine	+++++	+++++	0.34059	0.41250	0.50995	0.52235			
	0.50644	0.58260	0.54975				0.48917	17.141	<-
125 Pyrene	0.97630	0.85618	0.90224	0.91673	0.96218	0.96229			
	0.99272	1.09958	1.05418				0.96916	7.733	
126 Aramite 1	+++++	0.03644	0.03301	0.03190	0.03631	0.03925			
	0.04029	0.04530	0.04195				0.03806	11.887	<-
M 191 Aramite, Total	+++++	0.40242	0.43842	0.43766	0.49798	0.57505			
	0.54936	0.67154	0.61186				0.52304	18.133	<-
127 Aramite 2	+++++	0.05203	0.05971	0.06402	0.06645	0.07114			
	0.07497	0.08440	0.07762				0.06879	15.115	<-
128 p-Dimethylamino azobenzene	+++++	0.15029	0.17515	0.17713	0.19027	0.20653			
	0.20860	0.23274	0.23435				0.19688	14.867	<-
129 p-Chlorobenzilate	+++++	0.30574	0.32707	0.31510	0.34353	0.37139			
	0.38792	0.43121	0.44232				0.36554	14.188	<-
130 Famphur 1	+++++	0.27351	0.31536	0.31542	0.22246	0.07701			
	0.04790	+++++	+++++				0.20861	56.861	<-
131 Butylbenzylphthalate	+++++	0.41533	0.39874	0.40682	0.45425	0.44830			
	0.44797	0.50112	0.50241				0.44687	8.871	<-
132 3,3'-Dimethylbenzidine	+++++	0.37291	0.48569	0.47770	0.44172	0.36993			
	0.32424	+++++	+++++				0.41203	15.963	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

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End Cal Date : 26-FEB-2010 20:08
Quant Method : ISTD
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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD
	7.500 Level 7	10.000 Level 8	12.500 Level 9					
133 3,3'-Dimethoxybenzidine	+++++	+++++	0.16141	0.16887	0.21545	0.21536		
	0.20581	0.24671	0.21341				0.20386	14.474 <-
134 2-Acetylaminofluorene	+++++	+++++	0.27010	0.28401	0.36548	0.40567		
	0.43464	0.46214	0.48043				0.38607	21.600 <-
135 3,3'-Dichlorobenzidine	+++++	0.31128	0.32627	0.32865	0.37030	0.38140		
	0.39786	0.43745	0.45474				0.37599	14.008 <-
136 Benzo(a)Anthracene	1.08870	0.91932	0.93093	0.91442	0.96232	0.96632		
	0.97574	1.07076	1.10696				0.99283	7.604
137 Chrysene	1.07657	0.88757	0.87107	0.85204	0.87594	0.89158		
	0.93049	1.00730	1.03455				0.93635	8.756
138 4,4'-Methylene bis(o-chloroan	+++++	0.13955	0.15183	0.16158	0.17596	0.18751		
	0.19800	0.22153	0.23359				0.18369	18.000 <-
139 bis(2-ethylhexyl)Phthalate	+++++	0.54474	0.56358	0.59575	0.65017	0.65579		
	0.65710	0.73146	0.74587				0.64306	11.308 <-
140 Di-n-octylphthalate	+++++	0.85034	0.91952	0.98247	1.12257	1.18189		
	1.23060	1.39339	1.40709				1.13598	18.315 <-
141 Benzo(b)fluoranthene	0.95727	0.88873	0.90237	0.93212	1.06329	1.08347		
	1.17862	1.33232	1.29340				1.07018	15.616
142 Benzo(k)fluoranthene	1.21982	1.07812	1.12053	1.09167	1.06027	1.11017		
	1.11598	1.21807	1.31229				1.14744	7.293
143 7,12-dimethylbenz[a]anthracen	+++++	0.43244	0.43362	0.43509	0.45529	0.51259		
	0.52926	0.57208	0.60430				0.49683	13.649 <-

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Last Edit : 28-Feb-2010 06:59 hulat
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
146 Benzo(a)pyrene	1.03906	0.90879	0.90154	0.89791	0.96533	0.99131			
	1.02235	1.15268	1.16142				1.00449	10.013	
148 3-Methylcholanthrene	+++++	0.44623	0.44432	0.46325	0.49368	0.55309			
	0.58000	0.62652	0.64983				0.53211	15.367	<-
149 Indeno(1,2,3-cd)pyrene	0.92185	1.01072	1.02234	1.03178	1.10686	1.14691			
	1.18215	1.33523	1.34810				1.12288	13.042	
150 Dibenz(a,h)anthracene	0.85622	0.82607	0.83862	0.83705	0.93499	0.97865			
	1.01663	1.13718	1.16387				0.95436	13.632	
151 Benzo(g,h,i)perylene	0.78842	0.84070	0.81435	0.83731	0.87662	0.90557			
	0.93324	1.04579	1.06915				0.90124	11.010	
199 3-Picoline	+++++	1.16931	1.22591	1.23716	1.24088	1.24338			
	1.27853	1.42456	1.35895				1.27234	6.409	<-
200 N,N-Dimethylacetamide	+++++	+++++	0.92768	0.96649	0.98417	1.01454			
	1.01908	1.13257	1.11352				1.02258	7.369	<-
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
209 Benzaldehyde	+++++	1.01528	0.96118	0.97443	0.99191	0.90618			
	0.82755	+++++	+++++				0.94609	7.256	<-
210 Caprolactam	+++++	0.06936	0.07915	0.08730	0.09704	0.09694			
	0.10006	0.11081	0.10954				0.09378	15.355	<-
211 1,1'-Biphenyl	+++++	1.30411	1.28394	1.24197	1.33118	1.40021			
	1.44762	1.55009	1.71109				1.40878	11.170	<-
212 Atrazine	+++++	0.12256	0.11713	0.12762	0.13557	0.13809			
	0.13925	0.14925	0.12995				0.13243	7.724	<-
213 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
214 1,3-Dimethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
215 Phenyl ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
216 1,3-Diethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
217 1,3-Dibutyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
218 1,1,3,3-Tetramethyl-2-Thioure	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
219 o-Benzyl Phenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
220 Diphenyl Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
221 Hexabromobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
222 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
223 1,2-bis(2-chloroethoxy)ethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
224 Acrylamide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
225 Methyl parathion	+++++	+++++	0.17753	0.19328	0.21860	0.21186			
	0.22286	0.24702	0.19681				0.20971	10.876	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
226 Parathion	+++++	0.10237	0.11401	0.11912	0.14347	0.15368			
	0.15931	0.17524	0.17147				0.14233	19.311	<-
227 Isodrin	+++++	0.13006	0.12683	0.12139	0.12983	0.13339			
	0.13788	0.15061	0.14870				0.13484	7.651	<-
M 229 Famphur,Total	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
230 Famphur 2	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
231 2-Chloroacetophenone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
232 2-Methylcyclohexanone	+++++	0.71765	0.72563	0.68799	0.72854	0.71503			
	0.71863	0.79418	0.78149				0.73364	4.875	<-
233 3-Methylcyclohexanone	+++++	1.20752	1.24612	1.28531	1.31393	1.27849			
	1.30131	1.48114	1.42687				1.31759	6.954	<-
234 4-Methylcyclohexanone	+++++	0.85206	0.89175	0.90095	0.93519	0.88902			
	0.92298	0.97749	1.02375				0.92415	5.914	<-
235 Tributyl phosphate	+++++	1.33744	1.35875	1.47584	1.47308	1.59100			
	1.56005	1.74949	+++++				1.50652	9.447	<-
236 Phenyl sulfone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
237 3,4-Dichloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
238 Bis(2-hydroxyphenyl)methane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
239 Bis(4-hydroxyphenyl)methane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
240 4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
241 2,3-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
242 2,5-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
243 Octachlorostyrene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
244 Octachlorocyclopentene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
245 Catechol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
246 3-methylcatechol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
247 4-methylcatechol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
248 Hydroquinone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
249 Resorcinol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
250 N-methyl-pyrrolidone	+++++	0.72985	0.65796	0.80467	0.82630	0.80307			
	0.88809	0.88722	0.87053				0.80846	9.982	<-
$ 154 Nitrobenzene-d5	0.39733	0.36394	0.38610	0.40428	0.41774	0.42274			
	0.42187	0.45986	0.42879				0.41141	6.696	
$ 155 2-Fluorobiphenyl	1.16592	1.13746	1.09251	1.08339	1.15238	1.14435			
	1.16606	1.23848	1.30100				1.16462	5.852	
$ 156 Terphenyl-d14	0.61823	0.58794	0.56556	0.57533	0.61653	0.62320			
	0.64542	0.72809	0.75271				0.63478	10.268	
$ 157 Phenol-d5	+++++	1.42366	1.35711	1.35987	1.49946	1.43416			
	1.46364	1.54318	1.58815				1.45865	5.647	
$ 158 2-Fluorophenol	+++++	1.05360	1.00409	1.01687	1.07893	1.05304			
	1.06597	1.15247	1.13556				1.07007	4.858	
$ 159 2,4,6-Tribromophenol	+++++	0.12880	0.13087	0.13799	0.15687	0.16680			
	0.17065	0.18383	0.20117				0.15962	16.298	<-
$ 186 2-Chlorophenol-d4	+++++	1.13373	1.06062	1.06944	1.14556	1.11805			
	1.14877	1.20495	1.22841				1.13869	5.135	<-
$ 187 1,2-Dichlorobenzene-d4	+++++	0.79473	0.79289	0.73730	0.78125	0.75679			
	0.77487	0.82630	0.84114				0.78816	4.322	<-

Report Date : 28-Feb-2010 07:37

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Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SLL0226.D
Level 2: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NL0226.D
Level 3: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NML0226.D
Level 4: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NM0226.D
Level 5: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NMM0226.D
Level 6: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NMH0226.D
Level 7: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NH0226.D
Level 8: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NHH0226.D
Level 9: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NHHH0226.D

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
198 1,4-Dioxane	+++++	0.58094	0.53436	0.52031	0.56238	0.54927						
	0.52333	0.60790	0.54186				AVRG		0.55254		5.43599	<-
7 N-Nitrosomorpholine	+++++	0.74689	0.73981	0.74780	0.74186	0.79948						
	0.81745	0.88958	0.93269				AVRG		0.80195		9.24233	<-
8 Ethyl methanesulfonate	+++++	0.98323	0.99640	0.94471	0.95158	1.01043						
	1.02568	1.10205	1.10494				AVRG		1.01488		6.01911	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
9 Pyridine	+++++	1.25129	1.34832	1.26155	1.27354	1.27726						
	1.36355	1.50632	1.46277				AVRG		1.34308		7.21099	<-
10 N-Nitrosodimethylamine	+++++	0.73228	0.74303	0.74045	0.76429	0.74533						
	0.74376	0.79757	0.82810				AVRG		0.76185		4.42569	<-
11 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
12 3-Chloropropionitrile	+++++	0.65386	0.65320	0.60786	0.65441	0.63630						
	0.66035	0.69972	0.69343				AVRG		0.65739		4.46687	<-
13 Malononitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
14 2-Picoline	+++++	1.28099	1.34441	1.31510	1.26625	1.34820						
	1.33569	1.29336	1.35676				AVRG		1.31760		2.57954	<-
15 N-Nitrosomethylethylamine	+++++	0.69032	0.61503	0.59170	0.60072	0.62464						
	0.62633	0.67908	0.67826				AVRG		0.63826		6.04492	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
16 Methyl methanesulfonate	+++++	0.83838	0.81457	0.80624	0.77236	0.82238						
	0.85867	0.88667	0.93301				AVRG		0.84154		5.99782	<-
18 1,3-Dichloro-2-propanol	+++++	1.32478	1.28095	1.31633	1.28547	1.38206						
	1.40454	1.44558	1.53625				AVRG		1.37199		6.44061	<-
19 N-Nitrosodiethylamine	+++++	0.63696	0.59267	0.59743	0.58462	0.60593						
	0.62436	0.64703	0.67745				AVRG		0.62081		5.10795	<-
21 Aniline	+++++	1.80412	1.77777	1.76837	1.87440	1.90530						
	1.91448	2.01071	2.18613				AVRG		1.90516		7.32346	<-
22 Phenol	+++++	1.45212	1.47899	1.45531	1.57621	1.51261						
	1.57679	1.66276	1.71038				AVRG		1.55315		6.19242	<-
23 bis(2-Chloroethyl)ether	1.44688	1.29682	1.15466	1.20530	1.28128	1.18556						
	1.22016	1.25681	1.25516				AVRG		1.25585		6.77007	
24 2-Chlorophenol	+++++	1.19840	1.18854	1.15570	1.26192	1.21460						
	1.24471	1.30808	1.34456				AVRG		1.23956		5.12025	<-

TestAmerica North Canton

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End Cal Date : 26-FEB-2010 20:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
25 Pentachloroethane	+++++	0.43566	0.43455	0.44388	0.44302	0.46589						
	0.46985	0.48468	0.51690				AVRG		0.46180		6.20098	<-
26 1,3-Dichlorobenzene	+++++	1.30443	1.22815	1.25034	1.31433	1.26687						
	1.30613	1.37603	1.38909				AVRG		1.30442		4.35107	<-
27 1,4-Dichlorobenzene	+++++	1.28029	1.24080	1.22187	1.29089	1.25861						
	1.27780	1.35644	1.39171				AVRG		1.28980		4.44895	<-
28 1,2-Dichlorobenzene	+++++	1.21497	1.23538	1.17277	1.25392	1.19304						
	1.22657	1.30213	1.34832				AVRG		1.24339		4.63481	<-
29 Benzyl Alcohol	+++++	0.77334	0.79139	0.78151	0.80632	0.83211						
	0.85113	0.86223	0.89693				AVRG		0.82437		5.29322	<-
30 2-Methylphenol	+++++	1.11945	1.05321	1.07651	1.13404	1.09637						
	1.15584	1.16444	1.24627				AVRG		1.13076		5.32544	<-
31 bis(2-Chloroisopropyl)ether	+++++	1.41681	1.32203	1.34018	1.37140	1.36600						
	1.40377	1.46393	1.49031				AVRG		1.39680		4.19978	<-

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Last Edit : 28-Feb-2010 06:59 hulat

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
32 N-Nitroso-di-n-propylamine	+++++	0.96029	1.02443	0.98258	1.06029	1.02602						
	1.07343	1.09599	1.14538				AVRG		1.04605		5.77742	<-
M 195 Cresols, total	+++++	2.21082	2.20664	2.19333	2.31968	2.29151						
	2.39460	2.44492	2.56143				AVRG		2.32787		5.63841	<-
192 4-Methylphenol	+++++	1.09138	1.15343	1.11681	1.18565	1.19514						
	1.23876	1.28048	1.31517				AVRG		1.19710		6.49325	<-
193 3-Methylphenol	+++++	1.00016	1.02299	1.06148	1.10749	1.19000						
	1.18107	1.37814	1.35062				AVRG		1.16149		12.26384	<-
34 Hexachloroethane	+++++	0.56069	0.49512	0.51462	0.56447	0.54151						
	0.54918	0.58945	0.59383				AVRG		0.55111		6.18305	<-
35 Nitrobenzene	0.42625	0.36865	0.34904	0.35574	0.36756	0.37596						
	0.37415	0.40829	0.41063				AVRG		0.38181		7.00889	
36 N-Nitrosopyrrolidine	+++++	0.56185	0.61748	0.59639	0.63951	0.66382						
	0.67528	0.74627	0.75998				AVRG		0.65757		10.52772	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
37 Acetophenone	+++++	1.62750	1.65431	1.61733	1.72050	1.66979						
	1.74075	1.77832	1.85935				AVRG		1.70848		4.85307	<-
39 o-Toluidine	+++++	1.85612	1.89216	1.83867	1.91650	1.98620						
	1.97925	2.15039	2.01796				AVRG		1.95466		5.20454	<-
40 N-Nitrosopiperidine	+++++	0.15122	0.14647	0.14169	0.14386	0.15565						
	0.15569	0.16952	0.16622				AVRG		0.15379		6.56847	<-
41 Isophorone	+++++	0.63154	0.62084	0.63905	0.67216	0.65847						
	0.66774	0.72291	0.73134				AVRG		0.66801		6.07475	<-
42 2-Nitrophenol	+++++	0.13864	0.14186	0.14535	0.15688	0.15817						
	0.16225	0.17497	0.18313				AVRG		0.15766		9.98001	<-
43 2,4-Dimethylphenol	+++++	0.29618	0.31185	0.31683	0.33307	0.33255						
	0.34343	0.37410	0.39273				AVRG		0.33759		9.54089	<-
44 bis(2-Chloroethoxy)methane	+++++	0.32742	0.32890	0.32794	0.33982	0.33483						
	0.33210	0.36377	0.37049				AVRG		0.34066		4.97064	<-

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TestAmerica North Canton

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Last Edit : 28-Feb-2010 06:59 hulat

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
45 O,O,O-Triethyl phosphorothioa	+++++	0.14600	0.15459	0.15179	0.15507	0.16388						
	0.16625	0.18259	0.18551				AVRG		0.16321		8.81784	<-
46 2,4-Toluenediamene	+++++	0.16794	0.16440	0.15945	0.16041	0.15127						
	+++++	+++++	+++++				AVRG		0.16069		3.89439	<-
47 1,3,5-Trichlorobenzene	+++++	0.26413	0.26026	0.26152	0.26859	0.26243						
	0.26865	0.29447	0.31020				AVRG		0.27378		6.71137	<-
48 2,4-Dichlorophenol	+++++	0.19514	0.20859	0.21424	0.23004	0.23000						
	0.23218	0.25167	0.25680				AVRG		0.22733		9.19406	<-
49 Benzoic Acid	+++++	+++++	47053	137250	446494	863453						
	1442044	1403280	2370497				QUAD	0.34497	4.84566	-0.30195	0.99925	<-
50 1,2,4-Trichlorobenzene	+++++	0.25954	0.25391	0.25412	0.26367	0.25996						
	0.26219	0.28218	0.29453				AVRG		0.26626		5.42450	<-
51 Naphthalene	0.99279	0.87443	0.86144	0.87190	0.90170	0.89161						
	0.90803	0.97314	1.01993				AVRG		0.92166		6.32491	

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
52 4-Chloroaniline	+++++	0.34156	0.35764	0.35492	0.37421	0.37422						
	0.38764	0.41939	0.39895				AVRG		0.37607		6.75558	<-
53 a,a-Dimethyl-phenethylamine	+++++	55553	151039	244066	914456	1602274						
	2634134	1798676	4543317				QUAD	0.08494	1.32044	-0.03238	0.99724	<-
54 2,6-Dichlorophenol	+++++	0.20204	0.21371	0.20911	0.22071	0.23650						
	0.23928	0.26514	0.27066				AVRG		0.23214		10.98148	<-
55 Hexachloropropene	+++++	+++++	+++++	0.17828	0.18747	0.19874						
	0.21231	0.21512	0.23245				AVRG		0.20406		9.71536	<-
56 Hexachlorobutadiene	+++++	0.15687	0.15784	0.15504	0.15901	0.15756						
	0.16251	0.17670	0.18297				AVRG		0.16356		6.35780	<-
57 1,2,3-Trichlorobenzene	+++++	0.25425	0.24461	0.23262	0.24626	0.23993						
	0.24485	0.26608	0.27486				AVRG		0.25043		5.57846	<-
58 N-Nitrosodi-n-butylamine	+++++	0.21708	0.22855	0.22606	0.22838	0.24770						
	0.24532	0.27304	0.26806				AVRG		0.24177		8.45807	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
59 4-Chloro-3-Methylphenol	+++++	+++++	0.23145	0.25049	0.27792	0.27166						
	0.27614	0.30156	0.30568				AVRG		0.27356		9.61519	<-
60 p-Phenylene diamine	+++++	+++++	46148	88187	340201	590422						
	864632	+++++	+++++				QUAD	0.17675	2.73263	1.01473	0.99735	<-
61 Safrole	+++++	0.22389	0.23954	0.22545	0.22860	0.24081						
	0.24316	0.27053	0.27559				AVRG		0.24345		8.09069	<-
62 2-Methylnaphthalene	0.52310	0.48513	0.48071	0.48850	0.50577	0.49651						
	0.50376	0.53723	0.57255				AVRG		0.51036		5.79696	
63 1-Methylnaphthalene	0.62893	0.56002	0.55659	0.55361	0.57519	0.57171						
	0.58153	0.62491	0.65424				AVRG		0.58964		6.23844	
64 Hexachlorocyclopentadiene	+++++	15783	39190	77000	226917	405018						
	686718	653476	1175391				QUAD	0.05511	2.99303	-0.26080	0.99995	<-
65 1,2,4,5-Tetrachlorobenzene	+++++	0.48649	0.44839	0.44533	0.43884	0.45619						
	0.47255	0.49058	0.55402				AVRG		0.47405		7.92001	<-

TestAmerica North Canton

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
66 2,4,6-Trichlorophenol	+++++	0.25047	0.27263	0.27293	0.31658	0.31512						
	0.32035	0.33735	0.34727				AVRG		0.30409		11.35716	<-
67 2,4,5-Trichlorophenol	+++++	0.23727	0.30498	0.28831	0.31805	0.33376						
	0.33655	0.35352	0.36579				AVRG		0.31728		12.88686	<-
68 1,2,3,5-Tetrachlorobenzene	+++++	0.47860	0.46412	0.46122	0.48956	0.51123						
	0.53540	0.56562	0.61698				AVRG		0.51534		10.58898	<-
69 1,4-Dinitrobenzene	+++++	+++++	15993	29142	120575	222536						
	344616	229092	642196				QUAD	0.08572	6.34311	-1.00968	0.99922	<-
70 2-Chloronaphthalene	1.03467	0.96605	0.94164	0.90625	0.96132	0.96082						
	0.97022	1.02458	1.06157				AVRG		0.98079		5.03908	
71 Isosafrole 1	+++++	0.14310	0.13846	0.14075	0.13673	0.14575						
	0.14990	0.15619	0.17175				AVRG		0.14783		7.81469	<-
M 188 Isosafrole, Total	+++++	0.87260	0.94652	0.94191	0.93121	0.97986						
	1.01910	1.08459	1.18059				AVRG		0.99455		9.87338	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
72 Isosafrole 2	+++++	0.72949	0.80806	0.80116	0.79448	0.83411						
	0.86920	0.92839	1.00884				AVRG		0.84672		10.34019	<-
73 2-Nitroaniline	+++++	0.29105	0.31586	0.32574	0.36835	0.37215						
	0.38023	0.40400	0.40955				AVRG		0.35837		11.96616	<-
74 1,2,3,4-Tetrachlorobenzene	+++++	0.45622	0.44238	0.42921	0.45479	0.47661						
	0.49539	0.52262	0.57139				AVRG		0.48108		9.81409	<-
75 1,4-Naphthoquinone	+++++	+++++	0.29938	0.31736	0.35159	0.37253						
	0.36033	0.39808	0.37085				AVRG		0.35288		9.63289	<-
76 Dimethylphthalate	+++++	1.10387	1.09075	1.03835	1.15923	1.14611						
	1.14920	1.23819	1.24786				AVRG		1.14670		6.20799	<-
77 m-Dinitrobenzene	+++++	+++++	0.14549	0.15056	0.17424	0.19121						
	0.18936	0.20817	0.21357				AVRG		0.18180		14.55724	<-
78 2,6-Dinitrotoluene	+++++	0.21070	0.21972	0.22226	0.25877	0.26983						
	0.26764	0.28376	0.28416				AVRG		0.25210		11.88436	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
79 Acenaphthylene	1.50278	1.56117	1.52419	1.51449	1.63452	1.64986						
	1.64980	1.75499	1.82792				AVRG		1.62441		6.90954	
80 1,2-Dinitrobenzene	+++++	0.10688	0.11201	0.11759	0.13039	0.13334						
	0.13198	0.14033	0.13989				AVRG		0.12655		10.07156	<-
81 3-Nitroaniline	+++++	0.20224	0.24895	0.24286	0.27696	0.29678						
	0.29373	0.31279	0.30936				AVRG		0.27296		14.12799	<-
82 Acenaphthene	1.03539	1.05146	1.00314	0.96579	1.03507	1.06410						
	1.09371	1.13855	1.22296				AVRG		1.06780		7.15842	
83 2,4-Dinitrophenol	+++++	+++++	+++++	63663	228218	434239						
	789145	709154	1345423				QUAD	0.39734	5.20597	-0.41379	0.99880	<-
84 Pentachlorobenzene	+++++	0.41880	0.40897	0.38849	0.39160	0.41624						
	0.42563	0.45492	0.50045				AVRG		0.42564		8.61250	<-
85 4-Nitrophenol	+++++	+++++	+++++	33584	140078	267422						
	381464	384601	733804				QUAD	0.08430	5.07976	-0.83068	0.99398	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
86 Dibenzofuran	1.40235	1.38331	1.36286	1.33140	1.42029	1.44984						
	1.43749	1.52444	1.59328				AVRG		1.43392		5.68497	
87 2,4-Dinitrotoluene	+++++	0.24358	0.31389	0.32327	0.36042	0.36886						
	0.36659	0.39544	0.38511				AVRG		0.34464		14.36188	<-
88 2,3,4,6-Tetrachlorophenol	+++++	+++++	22100	43837	182289	341062						
	527893	352253	1009379				QUAD	0.08978	4.20227	-0.49571	0.99901	<-
89 1-Naphthylamine	+++++	0.91695	0.96689	0.96072	0.95193	0.94559						
	0.80957	+++++	+++++				AVRG		0.92528		6.40609	<-
90 Zinophos	+++++	0.22979	0.25778	0.26014	0.26561	0.29365						
	0.28338	0.31420	0.31441				AVRG		0.27737		10.65367	<-
91 2,3,5,6-Tetrachlorophenol	+++++	+++++	0.24923	0.24639	0.28040	0.29636						
	0.30483	0.32293	0.33670				AVRG		0.29098		11.88443	<-
92 2-Naphthylamine	+++++	0.91459	1.02012	1.01641	0.97103	0.95711						
	0.79899	0.79631	0.69821				AVRG		0.89660		13.20213	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
93 Diethylphthalate	+++++	1.22375	1.16840	1.15416	1.22150	1.25387						
	1.25332	1.32108	1.35126				AVRG		1.24342		5.46560	<-
94 Fluorene	1.21313	1.16500	1.13423	1.10196	1.20809	1.21241						
	1.27146	1.32175	1.42545				AVRG		1.22816		8.10022	
95 4-Chlorophenyl-phenylether	+++++	0.55887	0.53264	0.52994	0.55437	0.56450						
	0.57547	0.61533	0.64334				AVRG		0.57181		6.88120	<-
96 4-Nitroaniline	+++++	12601	38016	72048	218382	362505						
	610886	567770	1006880				QUAD	0.03710	3.30318	-0.26713	0.99993	<-
97 5-Nitro-o-toluidine	+++++	+++++	0.25703	0.26800	0.29301	0.31240						
	0.28348	0.30064	0.30110				AVRG		0.28795		6.84572	<-
98 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	0.09668	0.11769	0.12664						
	0.13019	0.14054	0.14816				AVRG		0.12665		14.32737	<-
99 N-Nitrosodiphenylamine	+++++	0.46932	0.48354	0.48518	0.50076	0.50112						
	0.52367	0.55870	0.57236				AVRG		0.51183		7.21880	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
100 1,2-Diphenylhydrazine	+++++	0.82779	0.84773	0.85968	0.91420	0.90979						
	0.94620	1.01953	1.02132				AVRG		0.91828		8.05900	<-
101 Diphenylamine	+++++	0.46932	0.48354	0.48518	0.50076	0.50112						
	0.52367	0.55870	0.57236				AVRG		0.51183		7.21880	<-
102 Tetraethyl dithiopyrophosphat	+++++	0.07428	0.08308	0.07661	0.08351	0.09097						
	0.09424	0.10355	0.10862				AVRG		0.08936		13.78584	<-
103 Diallate 1	+++++	0.52829	0.50964	0.49701	0.50307	0.52672						
	0.55677	0.61065	+++++				AVRG		0.53316		7.42112	<-
M 189 Diallate, Total	+++++	2.49970	2.50357	2.42878	2.51393	2.81904						
	2.76361	3.28304	3.20580				AVRG		2.75218		12.12174	<-
104 Phorate	+++++	0.13639	0.13455	0.12763	0.13534	0.14314						
	0.15165	0.16406	0.17357				AVRG		0.14579		11.00032	<-
105 1,3,5-Trinitrobenzene	+++++	+++++	10223	18404	91074	174689						
	271811	180142	489765				QUAD	0.18511	12.80732	-2.42790	0.99969	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
106 4-Bromophenyl-phenylether	+++++	0.18325	0.17984	0.18077	0.19352	0.19759						
	0.20909	0.22284	0.23316				AVRG		0.20001		10.01441	<-
107 Hexachlorobenzene	+++++	0.20638	0.18782	0.19508	0.20767	0.20788						
	0.22131	0.23546	0.25215				AVRG		0.21422		9.89873	
108 Phenacetin	+++++	+++++	66827	124026	466495	876865						
	1431473	928447	2671206				QUAD	0.11176	2.68832	-0.18853	0.99979	<-
109 Diallate 2	+++++	0.10443	0.09804	0.09726	0.09819	0.10300						
	0.10708	0.11707	0.10993				AVRG		0.10438		6.57985	<-
110 Dimethoate	+++++	0.18399	0.22093	0.23158	0.24467	0.23449						
	0.24284	0.26598	0.21689				AVRG		0.23017		10.47381	<-
111 Pentachlorophenol	+++++	+++++	49387	98573	305406	544927						
	977003	834964	1649482				QUAD	0.13650	7.53420	-0.91699	0.99831	<-
112 Pentachloronitrobenzene	+++++	9038	23479	37631	126788	237900						
	379190	248635	746857				QUAD	0.02533	10.71075	-3.62824	0.99974	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
113 4-Aminobiphenyl	+++++	0.56239	0.60407	0.61643	0.62825	0.63714						
	0.59717	+++++	+++++				AVRG		0.60758		4.38093	<-
114 Pronamide	+++++	27395	71381	120267	413635	780306						
	1231079	823201	2364543				QUAD	0.05021	3.17587	-0.28750	0.99987	<-
115 Phenanthrene	1.03976	1.00827	0.96731	0.95669	1.03137	1.02053						
	1.07041	1.14062	1.21611				AVRG		1.05012		7.88343	
116 Anthracene	0.98852	0.94199	0.95537	0.96243	1.03169	1.03747						
	1.09631	1.17721	1.25397				AVRG		1.04944		10.24580	
117 Dinoseb	+++++	+++++	+++++	23018	145280	316276						
	575553	346335	1199575				QUAD	0.30537	7.14554	-1.93465	0.99496	<-
118 Disulfoton	+++++	0.29644	0.31808	0.31210	0.32920	0.34475						
	0.35569	0.39849	0.40583				AVRG		0.34507		11.53507	<-
119 Carbazole	+++++	0.85909	0.90368	0.91047	0.97725	0.97324						
	1.01154	1.08951	1.13470				AVRG		0.98243		9.59507	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
120 Di-n-Butylphthalate	+++++	1.03233	1.08639	1.10476	1.23041	1.24386						
	1.30455	1.39369	+++++				AVRG		1.19943		10.83781	<-
121 4-Nitroquinoline 1-oxide	+++++	+++++	8392	15491	100282	208806						
	361231	212482	622120				QUAD	0.26462	10.20215	-1.74232	0.99679	<-
122 Methapyrilene	+++++	0.20930	0.24404	0.23666	0.26232	0.25383						
	0.24761	0.31718	+++++				AVRG		0.25299		13.00271	<-
123 Fluoranthene	1.15294	0.97720	0.98228	1.02976	1.11249	1.11066						
	1.19019	1.27767	1.29754				AVRG		1.12564		10.40523	
124 Benzidine	+++++	+++++	99872	221096	738676	1251338						
	2017949	1929778	3178740				QUAD	0.09098	1.92535	-0.05065	0.99593	<-
125 Pyrene	0.97630	0.85618	0.90224	0.91673	0.96218	0.96229						
	0.99272	1.09958	1.05418				AVRG		0.96916		7.73257	
126 Aramite 1	+++++	0.03644	0.03301	0.03190	0.03631	0.03925						
	0.04029	0.04530	0.04195				AVRG		0.03806		11.88747	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
M 191 Aramite, Total	+++++	0.40242	0.43842	0.43766	0.49798	0.57505						
	0.54936	0.67154	0.61186				AVRG		0.52304		18.13345	<-
127 Aramite 2	+++++	6330	18083	30911	106709	191322						
	299407	211997	518899				QUAD	0.07491	13.71516	-2.97391	0.99541	<-
128 p-Dimethylamino azobenzene	+++++	0.15029	0.17515	0.17713	0.19027	0.20653						
	0.20860	0.23274	0.23435				AVRG		0.19688		14.86668	<-
129 p-Chlorobenzilate	+++++	0.30574	0.32707	0.31510	0.34353	0.37139						
	0.38792	0.43121	0.44232				AVRG		0.36554		14.18808	<-
130 Famphur 1	+++++	33276	95497	152301	357222	207101						
	191303	+++++	+++++				QUAD	-1.48660	36.90645	-93.31282	0.45958	<-
131 Butylbenzylphthalate	+++++	0.41533	0.39874	0.40682	0.45425	0.44830						
	0.44797	0.50112	0.50241				AVRG		0.44687		8.87111	<-
132 3,3'-Dimethylbenzidine	+++++	45369	147079	230659	709326	994813						
	1294905	+++++	+++++				QUAD	0.06314	1.42867	1.31523	0.99994	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
133 3,3'-Dimethoxybenzidine	+++++	+++++	0.16141	0.16887	0.21545	0.21536						
	0.20581	0.24671	0.21341				AVRG		0.20386		14.47426	<-
134 2-Acetylaminofluorene	+++++	+++++	81793	137136	586887	1090935						
	1735799	1160865	3211730				QUAD	0.13374	2.44973	-0.14021	0.99978	<-
135 3,3'-Dichlorobenzidine	+++++	0.31128	0.32627	0.32865	0.37030	0.38140						
	0.39786	0.43745	0.45474				AVRG		0.37599		14.00760	<-
136 Benzo(a)Anthracene	1.08870	0.91932	0.93093	0.91442	0.96232	0.96632						
	0.97574	1.07076	1.10696				AVRG		0.99283		7.60403	
137 Chrysene	1.07657	0.88757	0.87107	0.85204	0.87594	0.89158						
	0.93049	1.00730	1.03455				AVRG		0.93635		8.75619	
138 4,4'-Methylene bis(o-chloroan	+++++	18024	44522	86607	254886	449198						
	788953	733784	1350655				QUAD	0.04613	5.64425	-0.97541	0.99959	<-
139 bis(2-ethylhexyl)Phthalate	+++++	0.54474	0.56358	0.59575	0.65017	0.65579						
	0.65710	0.73146	0.74587				AVRG		0.64306		11.30827	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
140 Di-n-octylphthalate	+++++	101326	244702	482896	1496504	2553726						
	4357762	4049899	7054075				QUAD	0.05980	0.87733	-0.02073	0.99889	<-
141 Benzo(b)fluoranthene	19780	105900	240138	458147	1417467	2341068						
	4173720	3872396	6484119				QUAD	0.04901	0.92398	-0.02160	0.99775	
142 Benzo(k)fluoranthene	1.21982	1.07812	1.12053	1.09167	1.06027	1.11017						
	1.11598	1.21807	1.31229				AVRG		1.14744		7.29283	
143 7,12-dimethylbenz[a]anthracen	+++++	0.43244	0.43362	0.43509	0.45529	0.51259						
	0.52926	0.57208	0.60430				AVRG		0.49683		13.64900	<-
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
146 Benzo(a)pyrene	1.03906	0.90879	0.90154	0.89791	0.96533	0.99131						
	1.02235	1.15268	1.16142				AVRG		1.00449		10.01258	

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
148 3-Methylcholanthrene	+++++	48166	120005	199186	731604	1345626						
	2086498	1428585	3918243				QUAD	0.05854	1.88908	-0.09199	0.99967	<-
149 Indeno(1,2,3-cd)pyrene	0.92185	1.01072	1.02234	1.03178	1.10686	1.14691						
	1.18215	1.33523	1.34810				AVRG		1.12288		13.04168	
150 Dibenz(a,h)anthracene	0.85622	0.82607	0.83862	0.83705	0.93499	0.97865						
	1.01663	1.13718	1.16387				AVRG		0.95436		13.63218	
151 Benzo(g,h,i)perylene	0.78842	0.84070	0.81435	0.83731	0.87662	0.90557						
	0.93324	1.04579	1.06915				AVRG		0.90124		11.01011	
199 3-Picoline	+++++	1.16931	1.22591	1.23716	1.24088	1.24338						
	1.27853	1.42456	1.35895				AVRG		1.27234		6.40900	<-
200 N,N-Dimethylacetamide	+++++	+++++	0.92768	0.96649	0.98417	1.01454						
	1.01908	1.13257	1.11352				AVRG		1.02258		7.36922	<-
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
209 Benzaldehyde	+++++	1.01528	0.96118	0.97443	0.99191	0.90618						
	0.82755	+++++	+++++				AVRG		0.94609		7.25593	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
210 Caprolactam	+++++	7996	20679	41642	123082	206665						
	333378	323614	528249				QUAD	0.04271	10.51352	-2.28385	0.99884	<-
211 1,1'-Biphenyl	+++++	1.30411	1.28394	1.24197	1.33118	1.40021						
	1.44762	1.55009	1.71109				AVRG		1.40878		11.16977	<-
212 Atrazine	+++++	0.12256	0.11713	0.12762	0.13557	0.13809						
	0.13925	0.14925	0.12995				AVRG		0.13243		7.72369	<-
213 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
214 1,3-Dimethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
215 Phenyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
216 1,3-Diethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
217 1,3-Dibutyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	
218 1,1,3,3-Tetramethyl-2-Thioure	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
219 o-Benzyl Phenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
220 Diphenyl Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
221 Hexabromobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
222 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
223 1,2-bis(2-chloroethoxy)ethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2010 12:41
End Cal Date : 26-FEB-2010 20:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
224 Acrylamide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
225 Methyl parathion	+++++	+++++	0.17753	0.19328	0.21860	0.21186						
	0.22286	0.24702	0.19681				AVRG		0.20971		10.87566	<-
226 Parathion	+++++	10817	30082	51517	198774	355171						
	555718	383540	1001582				QUAD	0.08648	6.49192	-0.77482	0.99868	<-
227 Isodrin	+++++	0.13006	0.12683	0.12139	0.12983	0.13339						
	0.13788	0.15061	0.14870				AVRG		0.13484		7.65106	<-
M 229 Famphur,Total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
230 Famphur 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
231 2-Chloroacetophenone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2010 12:41
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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
232 2-Methylcyclohexanone	+++++	0.71765	0.72563	0.68799	0.72854	0.71503						
	0.71863	0.79418	0.78149				AVRG		0.73364		4.87539	<-
233 3-Methylcyclohexanone	+++++	1.20752	1.24612	1.28531	1.31393	1.27849						
	1.30131	1.48114	1.42687				AVRG		1.31759		6.95386	<-
234 4-Methylcyclohexanone	+++++	0.85206	0.89175	0.90095	0.93519	0.88902						
	0.92298	0.97749	1.02375				AVRG		0.92415		5.91352	<-
235 Tributyl phosphate	+++++	1.33744	1.35875	1.47584	1.47308	1.59100						
	1.56005	1.74949	+++++				AVRG		1.50652		9.44664	<-
236 Phenyl sulfone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
237 3,4-Dichloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
238 Bis(2-hydroxyphenyl)methane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
239 Bis(4-hydroxyphenyl)methane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
240 4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
241 2,3-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
242 2,5-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
243 Octachlorostyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
244 Octachlorocyclopentene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
245 Catechol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

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Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
246 3-methylcatechol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
247 4-methylcatechol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
248 Hydroquinone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
249 Resorcinol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
250 N-methyl-pyrrolidone	+++++	0.72985	0.65796	0.80467	0.82630	0.80307						
	0.88809	0.88722	0.87053				AVRG		0.80846		9.98215	<-
$ 154 Nitrobenzene-d5	0.39733	0.36394	0.38610	0.40428	0.41774	0.42274						
	0.42187	0.45986	0.42879				AVRG		0.41141		6.69584	
$ 155 2-Fluorobiphenyl	1.16592	1.13746	1.09251	1.08339	1.15238	1.14435						
	1.16606	1.23848	1.30100				AVRG		1.16462		5.85166	

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
$ 156 Terphenyl-d14	0.61823	0.58794	0.56556	0.57533	0.61653	0.62320						
	0.64542	0.72809	0.75271				AVRG		0.63478		10.26813	
$ 157 Phenol-d5	+++++	1.42366	1.35711	1.35987	1.49946	1.43416						
	1.46364	1.54318	1.58815				AVRG		1.45865		5.64735	
$ 158 2-Fluorophenol	+++++	1.05360	1.00409	1.01687	1.07893	1.05304						
	1.06597	1.15247	1.13556				AVRG		1.07007		4.85830	
$ 159 2,4,6-Tribromophenol	+++++	8100	18921	37171	109617	189404						
	312564	299962	545707				QUAD	0.02603	6.59188	-1.29897	0.99986	<-
$ 186 2-Chlorophenol-d4	+++++	1.13373	1.06062	1.06944	1.14556	1.11805						
	1.14877	1.20495	1.22841				AVRG		1.13869		5.13468	<-
$ 187 1,2-Dichlorobenzene-d4	+++++	0.79473	0.79289	0.73730	0.78125	0.75679						
	0.77487	0.82630	0.84114				AVRG		0.78816		4.32194	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Target Version : 4.14
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Method file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Last Edit : 28-Feb-2010 06:59 hulat

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SH0226.D
Lab Smp Id: L7
Inj Date : 26-FEB-2010 13:15
Operator : 046900 Inst ID: a4ag2.i
Smp Info : L7,00226A.b,8270C-625,3-827042.SUB,1,,7
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Meth Date : 28-Feb-2010 07:45 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 19:02 Cal File: 2NMH0226.D
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.519	3.519	(1.000)	211468	2.00000	
*	2 Naphthalene-d8	136	4.424	4.424	(1.000)	888451	2.00000	
*	3 Acenaphthene-d10	164	5.707	5.707	(1.000)	488433	2.00000	
*	4 Phenanthrene-d10	188	6.807	6.807	(1.000)	819205	2.00000	
*	5 Chrysene-d12	240	8.801	8.801	(1.000)	1062549	2.00000	
*	6 Perylene-d12	264	10.236	10.236	(1.000)	944315	2.00000	
	198 1,4-Dioxane	88	1.683	1.683	(0.478)	415003	7.50000	7.1035
	9 Pyridine	79	1.883	1.883	(0.535)	1081304	7.50000	7.6143
	10 N-Nitrosodimethylamine	74	1.848	1.848	(0.525)	589808	7.50000	7.3219
	12 3-Chloropropionitrile	54	2.260	2.260	(0.642)	523659	7.50000	7.5338
	209 Benzaldehyde	77	3.219	3.219	(0.915)	656252	7.50000	6.5603
	21 Aniline	93	3.289	3.289	(0.935)	1518189	7.50000	7.5367
	22 Phenol	94	3.236	3.236	(0.920)	1250404	7.50000	7.6142
	23 bis(2-Chloroethyl)ether	93	3.313	3.313	(0.941)	967591	7.50000	7.2868
	24 2-Chlorophenol	128	3.377	3.377	(0.960)	987058	7.50000	7.5311
	26 1,3-Dichlorobenzene	146	3.483	3.483	(0.990)	1035765	7.50000	7.5098
	27 1,4-Dichlorobenzene	146	3.530	3.530	(1.003)	1013303	7.50000	7.4302
	28 1,2-Dichlorobenzene	146	3.642	3.642	(1.035)	972680	7.50000	7.3986
	29 Benzyl Alcohol	108	3.595	3.595	(1.022)	674948	7.50000	7.7434
	30 2-Methylphenol	108	3.654	3.654	(1.038)	916584	7.50000	7.6663
	31 bis(2-Chloroisopropyl)ether	45	3.683	3.683	(1.047)	1113199	7.50000	7.5374
	37 Acetophenone	105	3.789	3.789	(1.077)	1380421	7.50000	7.6416
	32 N-Nitroso-di-n-propylamine	70	3.783	3.783	(1.075)	851236	7.50000	7.6963
	192 4-Methylphenol	108	3.766	3.766	(1.070)	982344	7.50000	7.7610
	34 Hexachloroethane	117	3.883	3.883	(1.104)	435503	7.50000	7.4738
	35 Nitrobenzene	77	3.918	3.918	(0.886)	1246538	7.50000	7.3495
	41 Isophorone	82	4.077	4.077	(0.922)	2224691	7.50000	7.4970
	42 2-Nitrophenol	139	4.142	4.142	(0.936)	540583	7.50000	7.7187
	43 2,4-Dimethylphenol	107	4.148	4.148	(0.938)	1144209	7.50000	7.6297
	44 bis(2-Chloroethoxy)methane	93	4.213	4.213	(0.952)	1106446	7.50000	7.3115
	46 2,4-Toluenediamene	121	5.254	5.254	(1.187)	435047	7.50000	6.0944

47	1,3,5-Trichlorobenzene	180	4.154	4.154 (0.939)	895066	7.50000	7.3595
48	2,4-Dichlorophenol	162	4.313	4.313 (0.975)	773556	7.50000	7.6600

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
49	Benzoic Acid	122	4.248	4.248	(0.960)	1442044	15.0000	14.829(M)
50	1,2,4-Trichlorobenzene	180	4.377	4.377	(0.989)	873525	7.50000	7.3852
51	Naphthalene	128	4.442	4.442	(1.004)	3025277	7.50000	7.3891
52	4-Chloroaniline	127	4.460	4.460	(1.008)	1291486	7.50000	7.7308
56	Hexachlorobutadiene	225	4.524	4.524	(1.023)	541444	7.50000	7.4518
210	Caprolactam	113	4.724	4.724	(1.068)	333378	7.50000	7.3324
57	1,2,3-Trichlorobenzene	180	4.548	4.548	(1.028)	815777	7.50000	7.3329
59	4-Chloro-3-Methylphenol	107	4.795	4.795	(1.084)	920027	7.50000	7.5709
62	2-Methylnaphthalene	142	4.936	4.936	(1.116)	1678385	7.50000	7.4030
63	1-Methylnaphthalene	142	5.013	5.013	(1.133)	1937493	7.50000	7.3969
64	Hexachlorocyclopentadiene	237	5.054	5.054	(0.886)	686718	7.50000	7.4954
66	2,4,6-Trichlorophenol	196	5.136	5.136	(0.900)	586760	7.50000	7.9011
67	2,4,5-Trichlorophenol	196	5.165	5.165	(0.905)	616427	7.50000	7.9555
211	1,1'-Biphenyl	154	5.271	5.271	(0.924)	2651489	7.50000	7.7068
68	1,2,3,5-Tetrachlorobenzene	216	5.054	5.054	(0.886)	980656	7.50000	7.7920
70	2-Chloronaphthalene	162	5.301	5.301	(0.929)	1777071	7.50000	7.4191
73	2-Nitroaniline	65	5.354	5.354	(0.938)	696436	7.50000	7.9576
74	1,2,3,4-Tetrachlorobenzene	216	5.271	5.271	(0.924)	907376	7.50000	7.7232
76	Dimethylphthalate	163	5.471	5.471	(0.959)	2104911	7.50000	7.5164
78	2,6-Dinitrotoluene	165	5.524	5.524	(0.968)	490219	7.50000	7.9622
79	Acenaphthylene	152	5.607	5.607	(0.982)	3021817	7.50000	7.6172
80	1,2-Dinitrobenzene	168	5.571	5.571	(0.976)	241734	7.50000	7.8217
81	3-Nitroaniline	138	5.654	5.654	(0.991)	538000	7.50000	8.0707
82	Acenaphthene	153	5.730	5.730	(1.004)	2003258	7.50000	7.6820
83	2,4-Dinitrophenol	184	5.730	5.730	(1.004)	789145	15.0000	15.457(Q)
85	4-Nitrophenol	109	5.754	5.754	(1.008)	381464	7.50000	7.0898(Q)
86	Dibenzofuran	168	5.860	5.860	(1.027)	2632948	7.50000	7.5187
87	2,4-Dinitrotoluene	165	5.824	5.824	(1.021)	671446	7.50000	7.9775
91	2,3,5,6-Tetrachlorophenol	232	5.907	5.907	(1.035)	558337	7.50000	7.8571
93	Diethylphthalate	149	5.983	5.983	(1.048)	2295602	7.50000	7.5597
94	Fluorene	166	6.112	6.112	(1.071)	2328828	7.50000	7.7644
95	4-Chlorophenyl-phenylether	204	6.089	6.089	(1.067)	1054047	7.50000	7.5480
96	4-Nitroaniline	138	6.107	6.107	(1.070)	610886	7.50000	7.5011
98	4,6-Dinitro-2-methylphenol	198	6.124	6.124	(0.900)	399935	7.50000	7.7094
99	N-Nitrosodiphenylamine	169	6.177	6.177	(0.908)	1608711	7.50000	7.6734
100	1,2-Diphenylhydrazine	77	6.207	6.207	(0.912)	2906729	7.50000	7.7280
106	4-Bromophenyl-phenylether	248	6.454	6.454	(0.948)	642339	7.50000	7.8407
107	Hexachlorobenzene	284	6.524	6.524	(0.959)	679867	7.50000	7.7483
212	Atrazine	200	6.548	6.548	(0.962)	427769	7.50000	7.8862
111	Pentachlorophenol	266	6.659	6.659	(0.978)	977003	15.0000	15.635
115	Phenanthrene	178	6.824	6.824	(1.003)	3288323	7.50000	7.6449
116	Anthracene	178	6.865	6.865	(1.009)	3367874	7.50000	7.8349
119	Carbazole	167	6.965	6.965	(1.023)	3107461	7.50000	7.7222
120	Di-n-Butylphthalate	149	7.183	7.183	(1.055)	4007611	7.50000	8.1573
123	Fluoranthene	202	7.712	7.712	(1.133)	3656272	7.50000	7.9301
124	Benzidine	184	7.783	7.783	(0.884)	2017949	7.50000	7.1297
125	Pyrene	202	7.889	7.889	(0.896)	3955562	7.50000	7.6824
131	Butylbenzylphthalate	149	8.306	8.306	(0.944)	1784962	7.50000	7.5185
133	3,3'-Dimethoxybenzidine	244	8.706	8.706	(0.989)	820052	7.50000	7.5717
135	3,3'-Dichlorobenzidine	252	8.748	8.748	(0.994)	1585279	7.50000	7.9361
136	Benzo(a)Anthracene	228	8.789	8.789	(0.999)	3887908	7.50000	7.3709
137	Chrysene	228	8.824	8.824	(1.003)	3707608	7.50000	7.4531

138	4,4'-Methylene bis(o-chloroan	231	8.742	8.742 (0.993)	788953	7.50000	7.3986
139	bis(2-ethylhexyl)Phthalate	149	8.724	8.724 (0.991)	2618273	7.50000	7.6638

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.271	9.271	(0.906)	4357762	7.50000	7.3339
141 Benzo(b)fluoranthene	252	9.795	9.795	(0.957)	4173720	7.50000	7.4220
142 Benzo(k)fluoranthene	252	9.824	9.824	(0.960)	3951881	7.50000	7.2944
146 Benzo(a)pyrene	252	10.177	10.177	(0.994)	3620317	7.50000	7.6334
149 Indeno(1,2,3-cd)pyrene	276	11.777	11.777	(1.151)	4186209	7.50000	7.8959
150 Dibenz(a,h)anthracene	278	11.783	11.783	(1.151)	3600070	7.50000	7.9893
151 Benzo(g,h,i)perylene	276	12.241	12.241	(1.196)	3304769	7.50000	7.7663
$ 154 Nitrobenzene-d5	82	3.901	3.901	(0.882)	1405555	7.50000	7.6908
$ 155 2-Fluorobiphenyl	172	5.195	5.195	(0.910)	2135781	7.50000	7.5093
$ 156 Terphenyl-d14	244	7.971	7.971	(0.906)	2571694	7.50000	7.6256
$ 157 Phenol-d5	99	3.224	3.224	(0.916)	1160670	7.50000	7.5256
$ 158 2-Fluorophenol	112	2.630	2.630	(0.748)	845319	7.50000	7.4713
$ 159 2,4,6-Tribromophenol	330	6.289	6.289	(1.102)	312564	7.50000	7.4249
$ 186 2-Chlorophenol-d4	132	3.366	3.366	(0.957)	910977	7.50000	7.5664
$ 187 1,2-Dichlorobenzene-d4	152	3.630	3.630	(1.032)	614472	7.50000	7.3735
101 Diphenylamine	169	6.177	6.177	(0.908)	1608711	7.50000	7.6734

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4ag2.i
Lab File ID: 2SH0226.D
Lab Smp Id: L7
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Misc Info:

Calibration Date: 26-FEB-2010
Calibration Time: 13:32
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	209382	104691	418764	211468	1.00
2 Naphthalene-d8	852751	426376	1705502	888451	4.19
3 Acenaphthene-d10	454212	227106	908424	488433	7.53
4 Phenanthrene-d10	776521	388261	1553042	819205	5.50
5 Chrysene-d12	958238	479119	1916476	1062549	10.89
6 Perylene-d12	864288	432144	1728576	944315	9.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.52	3.02	4.02	3.52	-0.00
2 Naphthalene-d8	4.42	3.92	4.92	4.42	-0.00
3 Acenaphthene-d10	5.71	5.21	6.21	5.71	-0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	-0.00
5 Chrysene-d12	8.80	8.30	9.30	8.80	-0.00
6 Perylene-d12	10.23	9.73	10.73	10.24	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SH0226.D

Page 1

Date : 26-FEB-2010 13:15

Client ID:

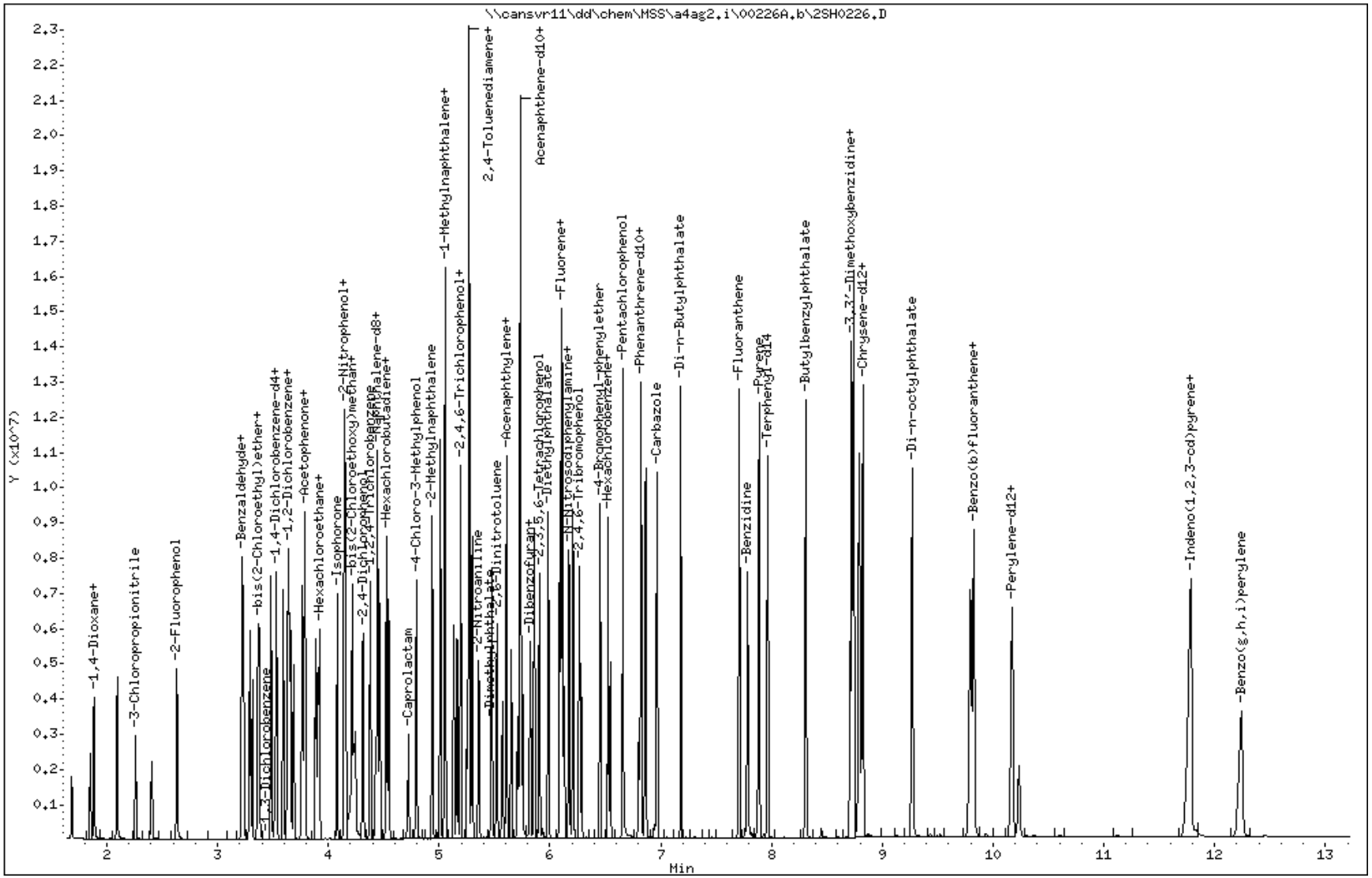
Instrument: a4ag2.i

Sample Info: L7,00226A.b,8270C-625,3-827042,SUB,1,,7

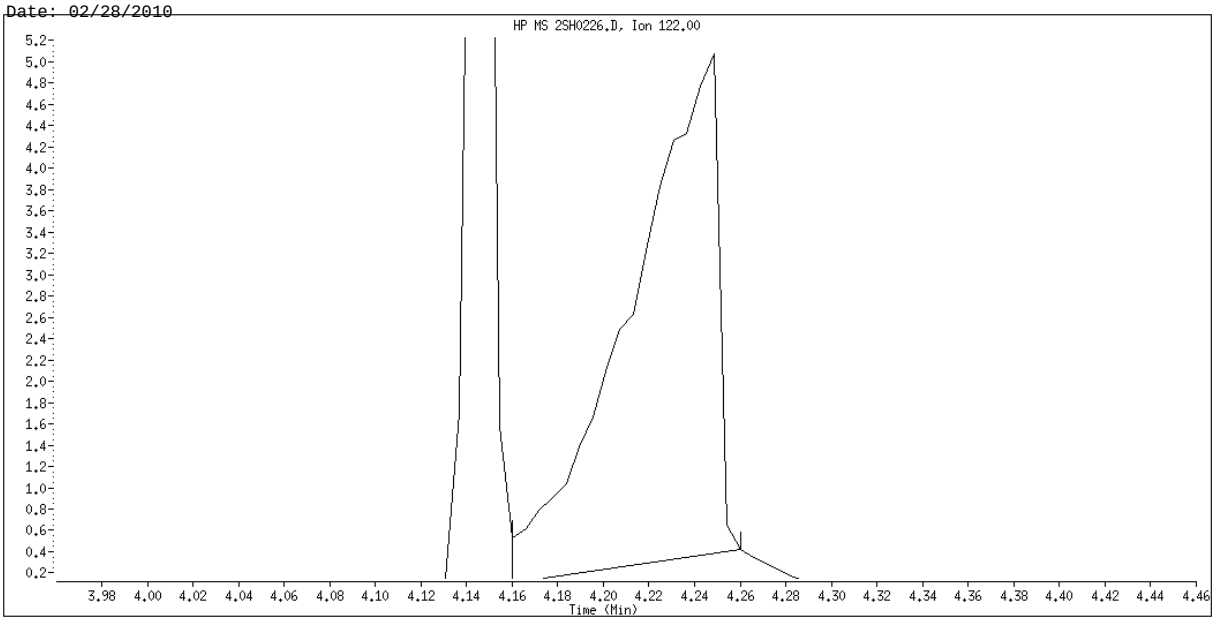
Operator: 046900

Column phase: db5.625

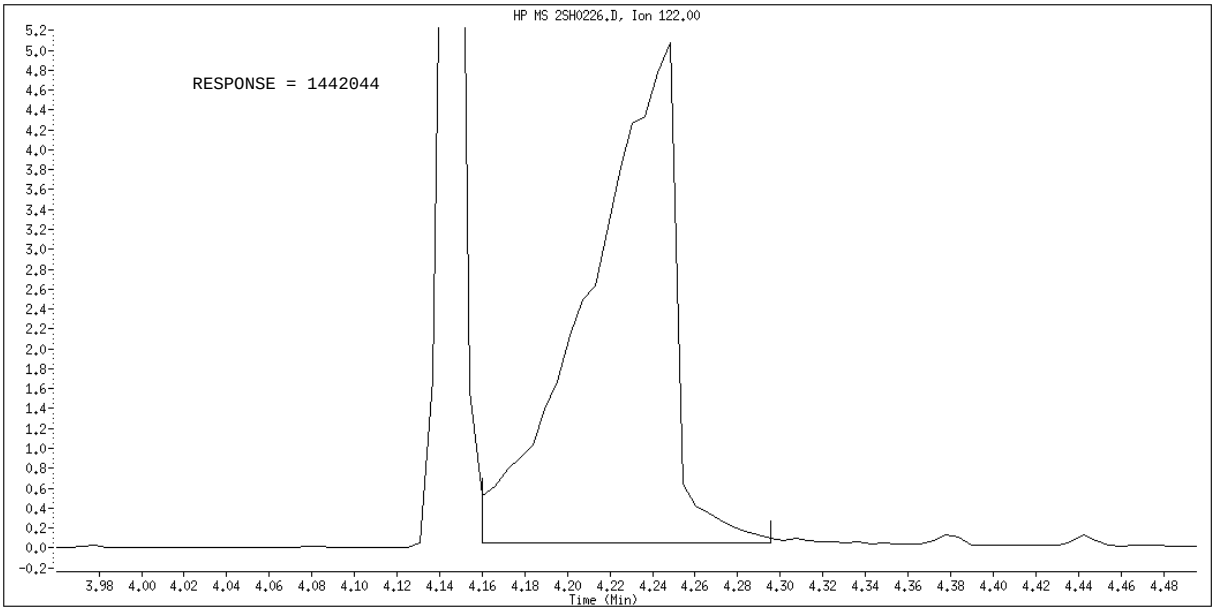
Column diameter: 0.32



Data File Name: 2SH0226.D
Inj. Date and Time: 26-FEB-2010 13:15
Instrument ID: a4ag2.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 02/28/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SHH0226.D
Lab Smp Id: L8
Inj Date : 26-FEB-2010 12:58
Operator : 046900 Inst ID: a4ag2.i
Smp Info : L8,00226A.b,8270C-625,3-827042.SUB,1,,8
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Meth Date : 28-Feb-2010 07:46 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 18:45 Cal File: 2NH0226.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.519	3.519	(1.000)	146240	2.00000	
*	2 Naphthalene-d8	136	4.424	4.424	(1.000)	584064	2.00000	
*	3 Acenaphthene-d10	164	5.707	5.707	(1.000)	326343	2.00000	
*	4 Phenanthrene-d10	188	6.807	6.807	(1.000)	534201	2.00000	
*	5 Chrysene-d12	240	8.801	8.801	(1.000)	662471	2.00000	
*	6 Perylene-d12	264	10.230	10.230	(1.000)	581303	2.00000	
	198 1,4-Dioxane	88	1.683	1.683	(0.479)	444497	10.0000	11.002
	9 Pyridine	79	1.883	1.883	(0.535)	1101419	10.0000	11.215
	10 N-Nitrosodimethylamine	74	1.848	1.848	(0.525)	583183	10.0000	10.469
	12 3-Chloropropionitrile	54	2.260	2.260	(0.642)	511634	10.0000	10.644
	209 Benzaldehyde	77	3.219	3.219	(0.915)	578284	10.0000	8.3593
	21 Aniline	93	3.289	3.289	(0.935)	1470232	10.0000	10.554
	22 Phenol	94	3.236	3.236	(0.920)	1215811	10.0000	10.706
	23 bis(2-Chloroethyl)ether	93	3.313	3.313	(0.942)	918983	10.0000	10.008
	24 2-Chlorophenol	128	3.378	3.378	(0.960)	956465	10.0000	10.553
	26 1,3-Dichlorobenzene	146	3.483	3.483	(0.990)	1006150	10.0000	10.549
	27 1,4-Dichlorobenzene	146	3.530	3.530	(1.003)	991827	10.0000	10.517
	28 1,2-Dichlorobenzene	146	3.642	3.642	(1.035)	952121	10.0000	10.472
	29 Benzyl Alcohol	108	3.595	3.595	(1.022)	630466	10.0000	10.459
	30 2-Methylphenol	108	3.654	3.654	(1.038)	851439	10.0000	10.298
	31 bis(2-Chloroisopropyl)ether	45	3.683	3.683	(1.047)	1070425	10.0000	10.480
	37 Acetophenone	105	3.789	3.789	(1.077)	1300310	10.0000	10.409
	32 N-Nitroso-di-n-propylamine	70	3.783	3.783	(1.075)	801391	10.0000	10.477
	192 4-Methylphenol	108	3.766	3.766	(1.070)	936290	10.0000	10.696
	34 Hexachloroethane	117	3.883	3.883	(1.104)	431006	10.0000	10.696
	35 Nitrobenzene	77	3.919	3.919	(0.886)	1192349	10.0000	10.694
	41 Isophorone	82	4.077	4.077	(0.922)	2111141	10.0000	10.822
	42 2-Nitrophenol	139	4.142	4.142	(0.936)	510965	10.0000	11.098
	43 2,4-Dimethylphenol	107	4.142	4.142	(0.936)	1092499	10.0000	11.081
	44 bis(2-Chloroethoxy)methane	93	4.213	4.213	(0.952)	1062321	10.0000	10.678
	46 2,4-Toluenediamene	121	5.254	5.254	(1.187)	406679	10.0000	8.6660

47	1,3,5-Trichlorobenzene	180	4.154	4.154 (0.939)	859948	10.0000	10.756
48	2,4-Dichlorophenol	162	4.313	4.313 (0.975)	734957	10.0000	11.071

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49	Benzoic Acid	122	4.242	4.242	(0.959)	1403280	20.0000	20.488(M)
50	1,2,4-Trichlorobenzene	180	4.377	4.377	(0.989)	824044	10.0000	10.598
51	Naphthalene	128	4.442	4.442	(1.004)	2841872	10.0000	10.558
52	4-Chloroaniline	127	4.460	4.460	(1.008)	1224741	10.0000	11.152
56	Hexachlorobutadiene	225	4.524	4.524	(1.023)	516014	10.0000	10.803
210	Caprolactam	113	4.724	4.724	(1.068)	323614	10.0000	10.334
57	1,2,3-Trichlorobenzene	180	4.542	4.542	(1.027)	777028	10.0000	10.625
59	4-Chloro-3-Methylphenol	107	4.795	4.795	(1.084)	880646	10.0000	11.024
62	2-Methylnaphthalene	142	4.936	4.936	(1.116)	1568897	10.0000	10.526
63	1-Methylnaphthalene	142	5.013	5.013	(1.133)	1824934	10.0000	10.598
64	Hexachlorocyclopentadiene	237	5.054	5.054	(0.886)	653476	10.0000	10.005
66	2,4,6-Trichlorophenol	196	5.136	5.136	(0.900)	550461	10.0000	11.094
67	2,4,5-Trichlorophenol	196	5.166	5.166	(0.905)	576847	10.0000	11.142
211	1,1'-Biphenyl	154	5.271	5.271	(0.924)	2529303	10.0000	11.003
68	1,2,3,5-Tetrachlorobenzene	216	5.054	5.054	(0.886)	922923	10.0000	10.976
70	2-Chloronaphthalene	162	5.301	5.301	(0.929)	1671818	10.0000	10.446
73	2-Nitroaniline	65	5.354	5.354	(0.938)	659221	10.0000	11.274
74	1,2,3,4-Tetrachlorobenzene	216	5.271	5.271	(0.924)	852775	10.0000	10.864
76	Dimethylphthalate	163	5.471	5.471	(0.959)	2020378	10.0000	10.798
78	2,6-Dinitrotoluene	165	5.524	5.524	(0.968)	463014	10.0000	11.256
79	Acenaphthylene	152	5.607	5.607	(0.982)	2863642	10.0000	10.804
80	1,2-Dinitrobenzene	168	5.571	5.571	(0.976)	228984	10.0000	11.089
81	3-Nitroaniline	138	5.654	5.654	(0.991)	510379	10.0000	11.459
82	Acenaphthene	153	5.730	5.730	(1.004)	1857787	10.0000	10.663
83	2,4-Dinitrophenol	184	5.730	5.730	(1.004)	709154	20.0000	19.512
85	4-Nitrophenol	109	5.754	5.754	(1.008)	384601	10.0000	9.8343
86	Dibenzofuran	168	5.860	5.860	(1.027)	2487450	10.0000	10.631
87	2,4-Dinitrotoluene	165	5.824	5.824	(1.021)	645238	10.0000	11.474
91	2,3,5,6-Tetrachlorophenol	232	5.907	5.907	(1.035)	526934	10.0000	11.098
93	Diethylphthalate	149	5.983	5.983	(1.048)	2155631	10.0000	10.625
94	Fluorene	166	6.107	6.107	(1.070)	2156721	10.0000	10.762
95	4-Chlorophenyl-phenylether	204	6.089	6.089	(1.067)	1004049	10.0000	10.761
96	4-Nitroaniline	138	6.107	6.107	(1.070)	567770	10.0000	9.9508
98	4,6-Dinitro-2-methylphenol	198	6.124	6.124	(0.900)	375394	10.0000	11.097
99	N-Nitrosodiphenylamine	169	6.177	6.177	(0.908)	1492293	10.0000	10.916
100	1,2-Diphenylhydrazine	77	6.207	6.207	(0.912)	2723173	10.0000	11.103
106	4-Bromophenyl-phenylether	248	6.454	6.454	(0.948)	595200	10.0000	11.141
107	Hexachlorobenzene	284	6.524	6.524	(0.959)	628907	10.0000	10.991
212	Atrazine	200	6.548	6.548	(0.962)	398657	10.0000	11.271
111	Pentachlorophenol	266	6.660	6.660	(0.978)	834964	20.0000	19.345
115	Phenanthrene	178	6.824	6.824	(1.003)	3046602	10.0000	10.862
116	Anthracene	178	6.866	6.866	(1.009)	3144330	10.0000	11.217
119	Carbazole	167	6.966	6.966	(1.023)	2910085	10.0000	11.090
120	Di-n-Butylphthalate	149	7.183	7.183	(1.055)	3722558	10.0000	11.620
123	Fluoranthene	202	7.713	7.713	(1.133)	3412659	10.0000	11.351
124	Benzidine	184	7.783	7.783	(0.884)	1929778	10.0000	10.539
125	Pyrene	202	7.889	7.889	(0.896)	3642192	10.0000	11.346
131	Butylbenzylphthalate	149	8.307	8.307	(0.944)	1659893	10.0000	11.214
133	3,3'-Dimethoxybenzidine	244	8.707	8.707	(0.989)	817200	10.0000	12.102
135	3,3'-Dichlorobenzidine	252	8.748	8.748	(0.994)	1448977	10.0000	11.634
136	Benzo(a)Anthracene	228	8.789	8.789	(0.999)	3546727	10.0000	10.785
137	Chrysene	228	8.824	8.824	(1.003)	3336542	10.0000	10.758

138	4,4'-Methylene bis(o-chloroan	231	8.742	8.742 (0.993)	733784	10.0000	10.202
139	bis(2-ethylhexyl)Phthalate	149	8.724	8.724 (0.991)	2422867	10.0000	11.375

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.271	9.271	(0.906)	4049899	10.0000	10.332
141 Benzo(b)fluoranthene	252	9.795	9.795	(0.957)	3872396	10.0000	10.492
142 Benzo(k)fluoranthene	252	9.824	9.824	(0.960)	3540325	10.0000	10.616
146 Benzo(a)pyrene	252	10.171	10.171	(0.994)	3350280	10.0000	11.475
149 Indeno(1,2,3-cd)pyrene	276	11.771	11.771	(1.151)	3880875	10.0000	11.891
150 Dibenz(a,h)anthracene	278	11.783	11.783	(1.152)	3305237	10.0000	11.916
151 Benzo(g,h,i)perylene	276	12.236	12.236	(1.196)	3039613	10.0000	11.604
$ 154 Nitrobenzene-d5	82	3.901	3.901	(0.882)	1342943	10.0000	11.178
$ 155 2-Fluorobiphenyl	172	5.195	5.195	(0.910)	2020849	10.0000	10.634
$ 156 Terphenyl-d14	244	7.971	7.971	(0.906)	2411704	10.0000	11.470
$ 157 Phenol-d5	99	3.225	3.225	(0.916)	1128374	10.0000	10.579
$ 158 2-Fluorophenol	112	2.630	2.630	(0.748)	842685	10.0000	10.770
$ 159 2,4,6-Tribromophenol	330	6.289	6.289	(1.102)	299962	10.0000	9.9752
$ 186 2-Chlorophenol-d4	132	3.366	3.366	(0.957)	881059	10.0000	10.582
$ 187 1,2-Dichlorobenzene-d4	152	3.630	3.630	(1.032)	604189	10.0000	10.484
101 Diphenylamine	169	6.177	6.177	(0.908)	1492293	10.0000	10.916

QC Flag Legend

M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4ag2.i
Lab File ID: 2SHH0226.D
Lab Smp Id: L8
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Misc Info:

Calibration Date: 26-FEB-2010
Calibration Time: 13:32
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	209382	104691	418764	146240	-30.16
2 Naphthalene-d8	852751	426376	1705502	584064	-31.51
3 Acenaphthene-d10	454212	227106	908424	326343	-28.15
4 Phenanthrene-d10	776521	388261	1553042	534201	-31.21
5 Chrysene-d12	958238	479119	1916476	662471	-30.87
6 Perylene-d12	864288	432144	1728576	581303	-32.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.52	3.02	4.02	3.52	0.00
2 Naphthalene-d8	4.42	3.92	4.92	4.42	0.00
3 Acenaphthene-d10	5.71	5.21	6.21	5.71	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.80	8.30	9.30	8.80	0.00
6 Perylene-d12	10.23	9.73	10.73	10.23	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SHH0226.D

Page 1

Date : 26-FEB-2010 12:58

Client ID:

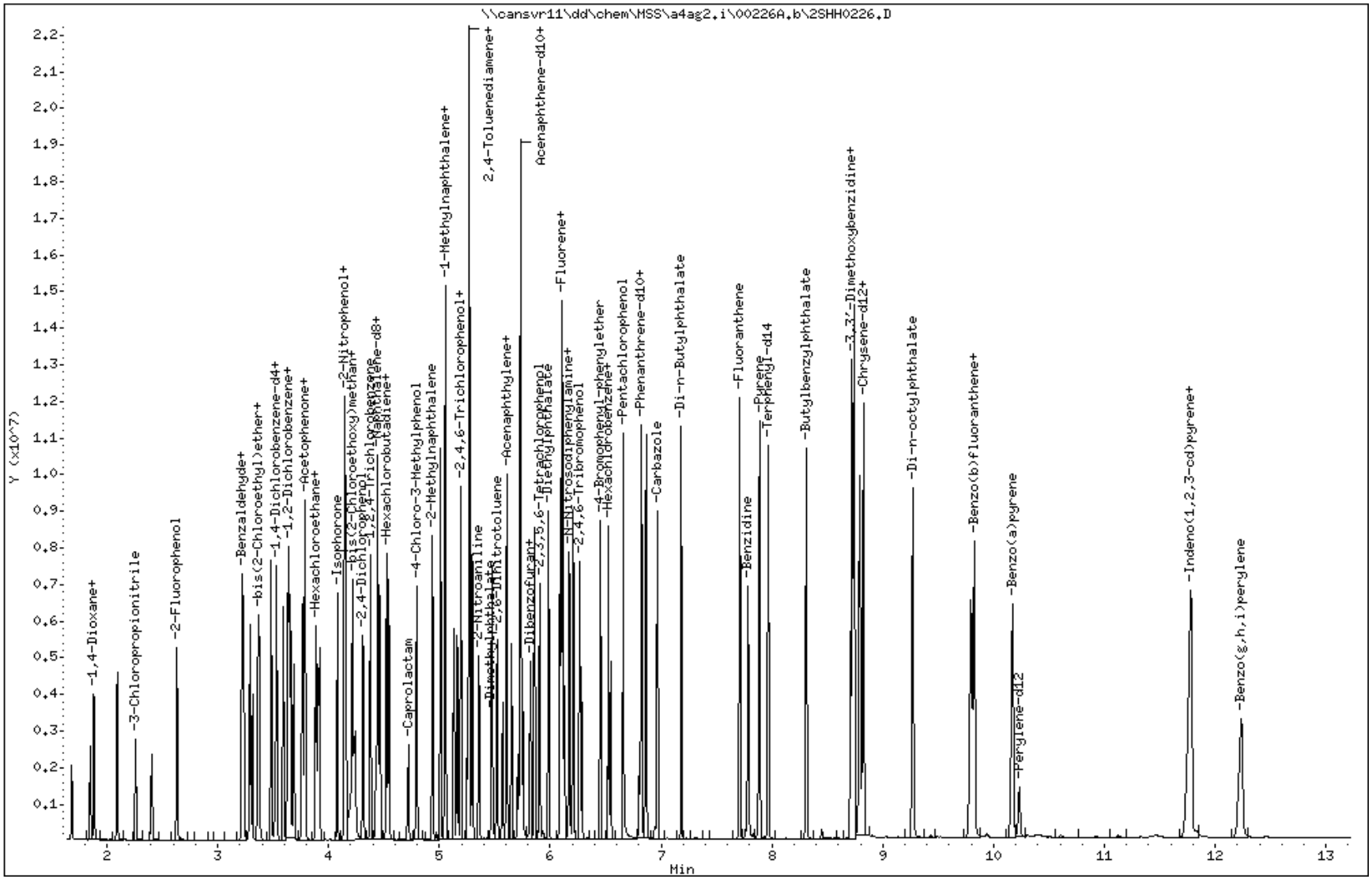
Instrument: a4ag2.i

Sample Info: L8,00226A.b,8270C-625,3-827042,SUB,1,,8

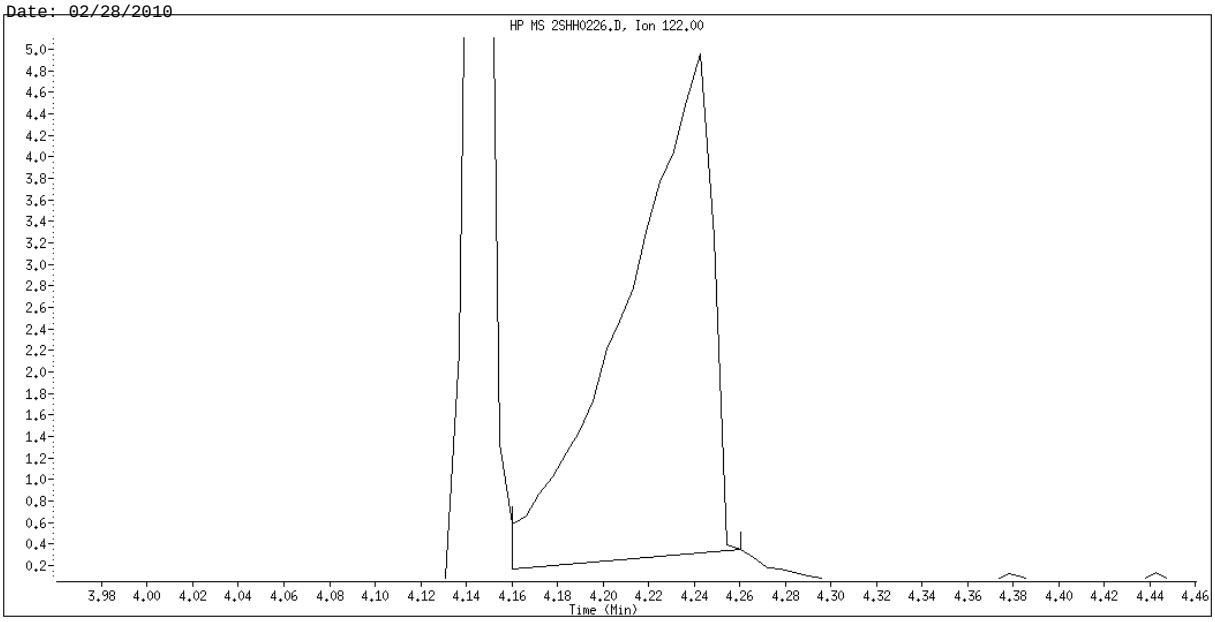
Operator: 046900

Column phase: db5.625

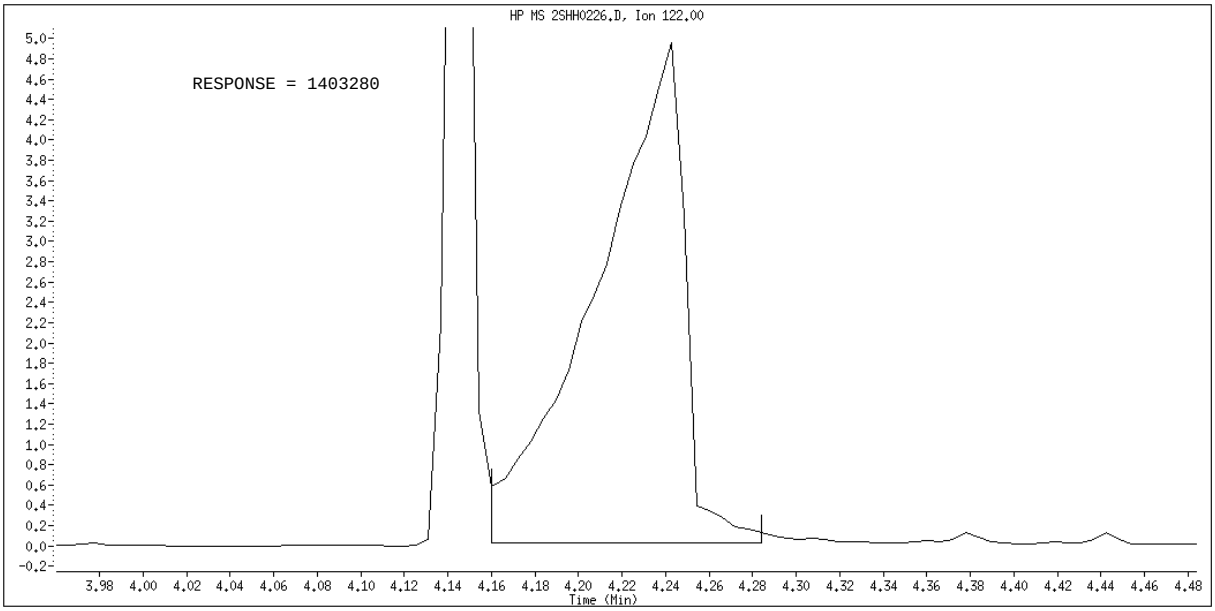
Column diameter: 0.32



Data File Name: 2SHH0226.D
Inj. Date and Time: 26-FEB-2010 12:58
Instrument ID: a4ag2.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 02/28/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SHHH0226.D
Lab Smp Id: L9
Inj Date : 26-FEB-2010 12:41
Operator : 046900   Inst ID: a4ag2.i
Smp Info : L9,00226A.b,8270C-625,3-827042.SUB,1,,9
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Meth Date : 28-Feb-2010 07:46 a4ag2.i   Quant Type: ISTD
Cal Date : 26-FEB-2010 18:27   Cal File: 2NHH0226.D
Als bottle: 2   Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.519	3.519	(1.000)	187243	2.00000	
*	2 Naphthalene-d8	136	4.430	4.430	(1.000)	771554	2.00000	
*	3 Acenaphthene-d10	164	5.713	5.713	(1.000)	434028	2.00000	
*	4 Phenanthrene-d10	188	6.813	6.813	(1.000)	721379	2.00000	
*	5 Chrysene-d12	240	8.812	8.812	(1.000)	925152	2.00000	
*	6 Perylene-d12	264	10.242	10.242	(1.000)	802117	2.00000	
	198 1,4-Dioxane	88	1.683	1.683	(0.479)	634120	12.5000	12.258
	9 Pyridine	79	1.883	1.883	(0.535)	1711835	12.5000	13.614
	10 N-Nitrosodimethylamine	74	1.854	1.854	(0.527)	969098	12.5000	13.587
	12 3-Chloropropionitrile	54	2.260	2.260	(0.642)	811495	12.5000	13.185
	209 Benzaldehyde	77	3.219	3.219	(0.915)	720148	12.5000	8.1304
	21 Aniline	93	3.295	3.295	(0.936)	2558365	12.5000	14.344
	22 Phenol	94	3.242	3.242	(0.921)	2001610	12.5000	13.765
	23 bis(2-Chloroethyl)ether	93	3.313	3.313	(0.942)	1468878	12.5000	12.493
	24 2-Chlorophenol	128	3.377	3.377	(0.960)	1573497	12.5000	13.559
	26 1,3-Dichlorobenzene	146	3.483	3.483	(0.990)	1625604	12.5000	13.311
	27 1,4-Dichlorobenzene	146	3.530	3.530	(1.003)	1628674	12.5000	13.488
	28 1,2-Dichlorobenzene	146	3.642	3.642	(1.035)	1577892	12.5000	13.555
	29 Benzyl Alcohol	108	3.595	3.595	(1.022)	1049645	12.5000	13.600
	30 2-Methylphenol	108	3.660	3.660	(1.040)	1458465	12.5000	13.777
	31 bis(2-Chloroisopropyl)ether	45	3.683	3.683	(1.047)	1744061	12.5000	13.337
	37 Acetophenone	105	3.795	3.795	(1.079)	2175937	12.5000	13.604
	32 N-Nitroso-di-n-propylamine	70	3.789	3.789	(1.077)	1340407	12.5000	13.687
	192 4-Methylphenol	108	3.772	3.772	(1.072)	1539101	12.5000	13.733
	34 Hexachloroethane	117	3.883	3.883	(1.104)	694946	12.5000	13.469
	35 Nitrobenzene	77	3.919	3.919	(0.885)	1980124	12.5000	13.443
	41 Isophorone	82	4.083	4.083	(0.922)	3526691	12.5000	13.685
	42 2-Nitrophenol	139	4.148	4.148	(0.936)	883095	12.5000	14.520
	43 2,4-Dimethylphenol	107	4.148	4.148	(0.936)	1893847	12.5000	14.542
	44 bis(2-Chloroethoxy)methane	93	4.219	4.219	(0.952)	1786588	12.5000	13.595
	46 2,4-Toluenediamene	121	5.254	5.254	(1.186)	427105	12.5000	6.8896

47	1,3,5-Trichlorobenzene	180	4.160	4.160 (0.939)	1495872	12.5000	14.163
48	2,4-Dichlorophenol	162	4.313	4.313 (0.973)	1238332	12.5000	14.120

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
49	Benzoic Acid	122	4.272	4.272	(0.964)	2370497	25.0000	24.765(M)
50	1,2,4-Trichlorobenzene	180	4.383	4.383	(0.989)	1420273	12.5000	13.827
51	Naphthalene	128	4.448	4.448	(1.004)	4918304	12.5000	13.833
52	4-Chloroaniline	127	4.466	4.466	(1.008)	1923819	12.5000	13.261
56	Hexachlorobutadiene	225	4.524	4.524	(1.021)	882304	12.5000	13.983
210	Caprolactam	113	4.742	4.742	(1.070)	528249	12.5000	12.340
57	1,2,3-Trichlorobenzene	180	4.548	4.548	(1.027)	1325441	12.5000	13.719
59	4-Chloro-3-Methylphenol	107	4.801	4.801	(1.084)	1474073	12.5000	13.968
62	2-Methylnaphthalene	142	4.942	4.942	(1.115)	2760958	12.5000	14.023
63	1-Methylnaphthalene	142	5.019	5.019	(1.133)	3154877	12.5000	13.870
64	Hexachlorocyclopentadiene	237	5.060	5.060	(0.886)	1175391	12.5000	12.496
66	2,4,6-Trichlorophenol	196	5.136	5.136	(0.899)	942030	12.5000	14.275
67	2,4,5-Trichlorophenol	196	5.166	5.166	(0.904)	992278	12.5000	14.411
211	1,1'-Biphenyl	154	5.277	5.277	(0.924)	4641634	12.5000	15.182
68	1,2,3,5-Tetrachlorobenzene	216	5.054	5.054	(0.885)	1673655	12.5000	14.965
70	2-Chloronaphthalene	162	5.301	5.301	(0.928)	2879681	12.5000	13.529
73	2-Nitroaniline	65	5.360	5.360	(0.938)	1110964	12.5000	14.285
74	1,2,3,4-Tetrachlorobenzene	216	5.277	5.277	(0.924)	1549992	12.5000	14.846
76	Dimethylphthalate	163	5.477	5.477	(0.959)	3385038	12.5000	13.603
78	2,6-Dinitrotoluene	165	5.530	5.530	(0.968)	770844	12.5000	14.090
79	Acenaphthylene	152	5.613	5.613	(0.982)	4958562	12.5000	14.066
80	1,2-Dinitrobenzene	168	5.577	5.577	(0.976)	379478	12.5000	13.818
81	3-Nitroaniline	138	5.660	5.660	(0.991)	839186	12.5000	14.167
82	Acenaphthene	153	5.736	5.736	(1.004)	3317497	12.5000	14.316
83	2,4-Dinitrophenol	184	5.736	5.736	(1.004)	1345423	25.0000	25.118
85	4-Nitrophenol	109	5.760	5.760	(1.008)	733804	12.5000	12.596
86	Dibenzofuran	168	5.860	5.860	(1.026)	4322064	12.5000	13.889
87	2,4-Dinitrotoluene	165	5.830	5.830	(1.021)	1044689	12.5000	13.968
91	2,3,5,6-Tetrachlorophenol	232	5.913	5.913	(1.035)	913361	12.5000	14.464
93	Diethylphthalate	149	5.989	5.989	(1.048)	3665525	12.5000	13.584
94	Fluorene	166	6.113	6.113	(1.070)	3866795	12.5000	14.508
95	4-Chlorophenyl-phenylether	204	6.095	6.095	(1.067)	1745185	12.5000	14.064
96	4-Nitroaniline	138	6.118	6.118	(1.071)	1006880	12.5000	12.525
98	4,6-Dinitro-2-methylphenol	198	6.136	6.136	(0.901)	667978	12.5000	14.622
99	N-Nitrosodiphenylamine	169	6.183	6.183	(0.908)	2580569	12.5000	13.978
100	1,2-Diphenylhydrazine	77	6.213	6.213	(0.912)	4604747	12.5000	13.903
106	4-Bromophenyl-phenylether	248	6.460	6.460	(0.948)	1051239	12.5000	14.572
107	Hexachlorobenzene	284	6.530	6.530	(0.959)	1136841	12.5000	14.713
212	Atrazine	200	6.554	6.554	(0.962)	585873	12.5000	12.266
111	Pentachlorophenol	266	6.665	6.665	(0.978)	1649482	25.0000	25.139
115	Phenanthrene	178	6.830	6.830	(1.003)	5482971	12.5000	14.476
116	Anthracene	178	6.871	6.871	(1.009)	5653692	12.5000	14.936
119	Carbazole	167	6.977	6.977	(1.024)	5115908	12.5000	14.437
120	Di-n-Butylphthalate	149	7.189	7.189	(1.055)	5686474	12.5000	13.144
123	Fluoranthene	202	7.718	7.718	(1.133)	5850104	12.5000	14.409
124	Benzidine	184	7.789	7.789	(0.884)	3178740	12.5000	12.217
125	Pyrene	202	7.895	7.895	(0.896)	6095460	12.5000	13.596
131	Butylbenzylphthalate	149	8.318	8.318	(0.944)	2905024	12.5000	14.054
133	3,3'-Dimethoxybenzidine	244	8.718	8.718	(0.989)	1233953	12.5000	13.085
135	3,3'-Dichlorobenzidine	252	8.759	8.759	(0.994)	2629376	12.5000	15.118
136	Benzo(a)Anthracene	228	8.801	8.801	(0.999)	6400655	12.5000	13.937
137	Chrysene	228	8.836	8.836	(1.003)	5981998	12.5000	13.811

138	4,4'-Methylene bis(o-chloroan	231	8.754	8.754 (0.993)	1350655	12.5000	12.415
139	bis(2-ethylhexyl)Phthalate	149	8.736	8.736 (0.991)	4312770	12.5000	14.498

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.283	9.283	(0.906)	7054075	12.5000	12.344
141 Benzo(b)fluoranthene	252	9.812	9.812	(0.958)	6484119	12.5000	12.214
142 Benzo(k)fluoranthene	252	9.842	9.842	(0.961)	6578826	12.5000	14.296
146 Benzo(a)pyrene	252	10.189	10.189	(0.995)	5822450	12.5000	14.453
149 Indeno(1,2,3-cd)pyrene	276	11.812	11.812	(1.153)	6758314	12.5000	15.007
150 Dibenz(a,h)anthracene	278	11.812	11.812	(1.153)	5834748	12.5000	15.244
151 Benzo(g,h,i)perylene	276	12.265	12.265	(1.198)	5359900	12.5000	14.829
$ 154 Nitrobenzene-d5	82	3.907	3.907	(0.882)	2067720	12.5000	13.028
$ 155 2-Fluorobiphenyl	172	5.195	5.195	(0.909)	3529188	12.5000	13.964
$ 156 Terphenyl-d14	244	7.977	7.977	(0.905)	4352319	12.5000	14.822
$ 157 Phenol-d5	99	3.230	3.230	(0.918)	1858564	12.5000	13.610
$ 158 2-Fluorophenol	112	2.636	2.636	(0.749)	1328910	12.5000	13.265
$ 159 2,4,6-Tribromophenol	330	6.295	6.295	(1.102)	545707	12.5000	12.521
$ 186 2-Chlorophenol-d4	132	3.366	3.366	(0.957)	1437572	12.5000	13.485
$ 187 1,2-Dichlorobenzene-d4	152	3.636	3.636	(1.033)	984357	12.5000	13.340
101 Diphenylamine	169	6.183	6.183	(0.908)	2580569	12.5000	13.978

QC Flag Legend

M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

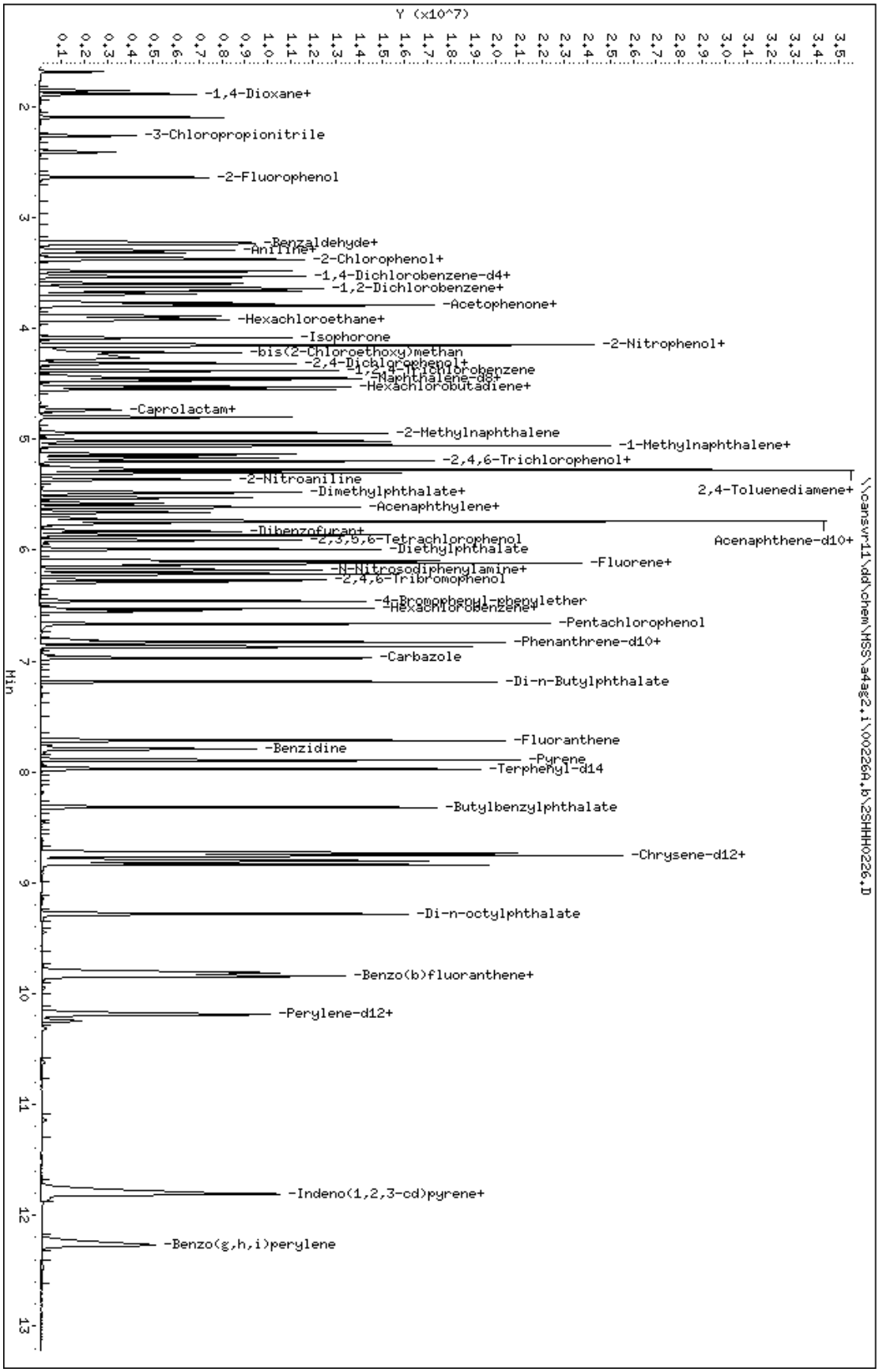
Instrument ID: a4ag2.i
Lab File ID: 2SHHH0226.D
Lab Smp Id: L9
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Misc Info:

Calibration Date: 26-FEB-2010
Calibration Time: 13:32
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	209382	104691	418764	187243	-10.57
2 Naphthalene-d8	852751	426376	1705502	771554	-9.52
3 Acenaphthene-d10	454212	227106	908424	434028	-4.44
4 Phenanthrene-d10	776521	388261	1553042	721379	-7.10
5 Chrysene-d12	958238	479119	1916476	925152	-3.45
6 Perylene-d12	864288	432144	1728576	802117	-7.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.52	3.02	4.02	3.52	0.00
2 Naphthalene-d8	4.42	3.92	4.92	4.43	0.13
3 Acenaphthene-d10	5.71	5.21	6.21	5.71	0.10
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.09
5 Chrysene-d12	8.80	8.30	9.30	8.81	0.13
6 Perylene-d12	10.23	9.73	10.73	10.24	0.12

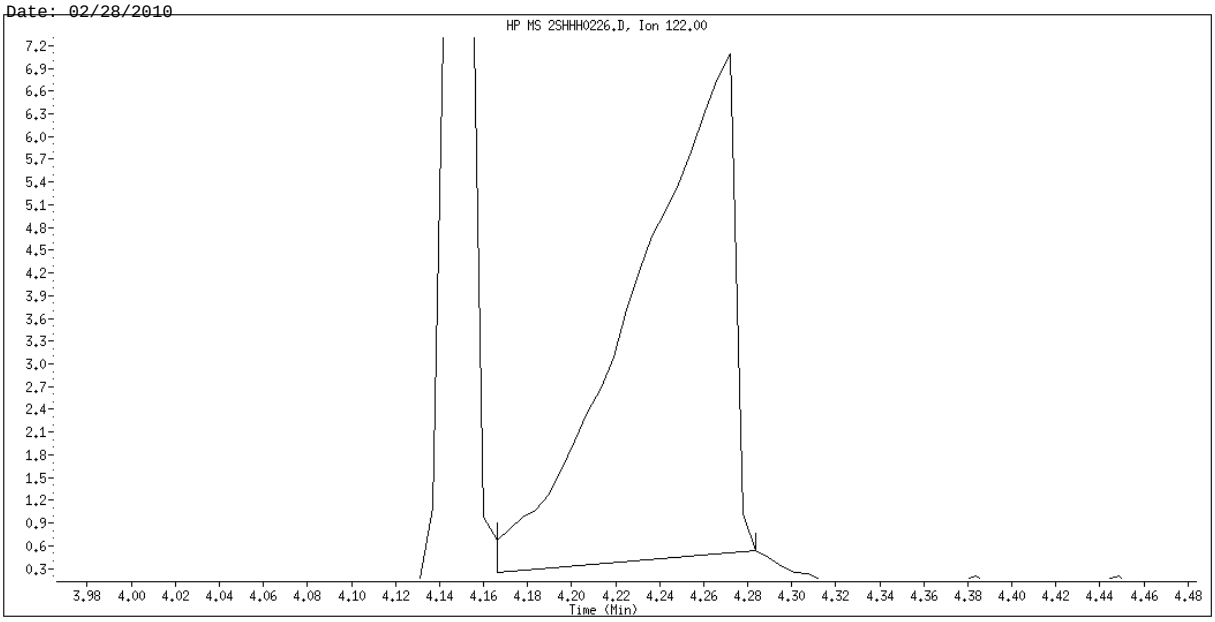
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



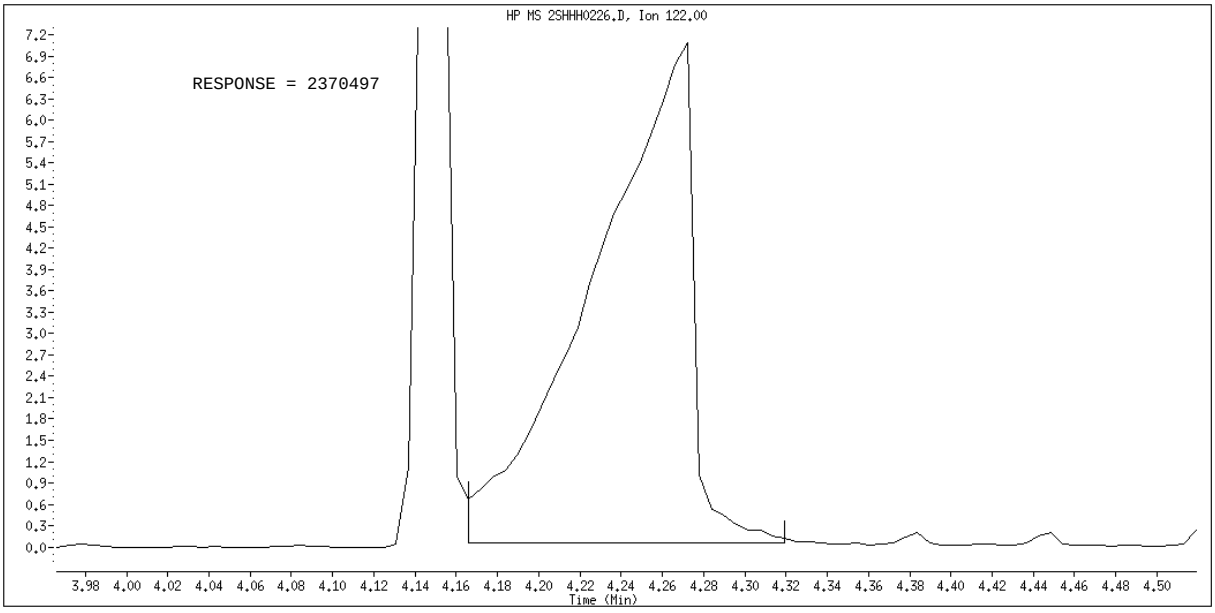
Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SHHH0226.D
Date : 26-FEB-2010 12:41
Client ID:
Sample Info: L9,00226A,b,8270C-625,3-827042,SUB,1,,9
Column phase: db5,625

Instrument: a4ag2.i
Operator: 046900
Column diameter: 0.32

Data File Name: 2SHHH0226.D
Inj. Date and Time: 26-FEB-2010 12:41
Instrument ID: a4ag2.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 02/28/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SL0226.D
Lab Smp Id: L2
Inj Date : 26-FEB-2010 14:43
Operator : 046900 Inst ID: a4ag2.i
Smp Info : L2,00226A.b,8270C-625,3-827042.SUB,1,,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Meth Date : 28-Feb-2010 07:45 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 15:00 Cal File: 2SLL0226.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.519	3.519	(1.000)	224025	2.00000	
*	2 Naphthalene-d8	136	4.424	4.424	(1.000)	922306	2.00000	
*	3 Acenaphthene-d10	164	5.707	5.707	(1.000)	503088	2.00000	
*	4 Phenanthrene-d10	188	6.807	6.807	(1.000)	848748	2.00000	
*	5 Chrysene-d12	240	8.801	8.801	(1.000)	1033254	2.00000	
*	6 Perylene-d12	264	10.236	10.236	(1.000)	953270	2.00000	
	198 1,4-Dioxane	88	1.689	1.689	(0.480)	16268	0.25000	0.26284
	9 Pyridine	79	1.883	1.883	(0.535)	35040	0.25000	0.23291
	10 N-Nitrosodimethylamine	74	1.848	1.848	(0.525)	20506	0.25000	0.24029
	12 3-Chloropropionitrile	54	2.254	2.254	(0.641)	18310	0.25000	0.24866
	209 Benzaldehyde	77	3.219	3.219	(0.915)	28431	0.25000	0.26828(Q)
	21 Aniline	93	3.283	3.283	(0.933)	50521	0.25000	0.23674
	22 Phenol	94	3.230	3.230	(0.918)	40664	0.25000	0.23374
	23 bis(2-Chloroethyl)ether	93	3.307	3.307	(0.940)	36315	0.25000	0.25816
	24 2-Chlorophenol	128	3.372	3.372	(0.958)	33559	0.25000	0.24170
	26 1,3-Dichlorobenzene	146	3.483	3.483	(0.990)	36528	0.25000	0.25000
	27 1,4-Dichlorobenzene	146	3.530	3.530	(1.003)	35852	0.25000	0.24816
	28 1,2-Dichlorobenzene	146	3.642	3.642	(1.035)	34023	0.25000	0.24429
	29 Benzyl Alcohol	108	3.589	3.589	(1.020)	21656	0.25000	0.23452
	30 2-Methylphenol	108	3.654	3.654	(1.038)	31348	0.25000	0.24750
	31 bis(2-Chloroisopropyl)ether	45	3.683	3.683	(1.047)	39675	0.25000	0.25358
	37 Acetophenone	105	3.783	3.783	(1.075)	45575	0.25000	0.23815
	32 N-Nitroso-di-n-propylamine	70	3.771	3.771	(1.072)	26891	0.25000	0.22950
	192 4-Methylphenol	108	3.754	3.754	(1.067)	30562	0.25000	0.22792
	34 Hexachloroethane	117	3.883	3.883	(1.104)	15701	0.25000	0.25434
	35 Nitrobenzene	77	3.913	3.913	(0.884)	42501	0.25000	0.24138
	41 Isophorone	82	4.071	4.071	(0.920)	72809	0.25000	0.23635
	42 2-Nitrophenol	139	4.142	4.142	(0.936)	15984	0.25000	0.21985
	43 2,4-Dimethylphenol	107	4.142	4.142	(0.936)	34146	0.25000	0.21933
	44 bis(2-Chloroethoxy)methane	93	4.207	4.207	(0.951)	37748	0.25000	0.24028
	46 2,4-Toluenediamene	121	5.248	5.248	(1.186)	19362	0.25000	0.26128

47	1,3,5-Trichlorobenzene	180	4.154	4.154 (0.939)	30451	0.25000	0.24119
48	2,4-Dichlorophenol	162	4.307	4.307 (0.973)	22497	0.25000	0.21460
49	Benzoic Acid	122	Compound Not Detected.				

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
50	1,2,4-Trichlorobenzene	180	4.377	4.377	(0.989)	29922	0.25000	0.24369
51	Naphthalene	128	4.442	4.442	(1.004)	100812	0.25000	0.23719
52	4-Chloroaniline	127	4.460	4.460	(1.008)	39378	0.25000	0.22706
56	Hexachlorobutadiene	225	4.524	4.524	(1.023)	18085	0.25000	0.23977
210	Caprolactam	113	4.677	4.677	(1.057)	7996	0.25000	0.26738(Q)
57	1,2,3-Trichlorobenzene	180	4.542	4.542	(1.027)	29312	0.25000	0.25381
59	4-Chloro-3-Methylphenol	107	4.789	4.789	(1.082)	24093	0.25000	0.19098
62	2-Methylnaphthalene	142	4.936	4.936	(1.116)	55930	0.25000	0.23764
63	1-Methylnaphthalene	142	5.013	5.013	(1.133)	64564	0.25000	0.23744
64	Hexachlorocyclopentadiene	237	5.054	5.054	(0.886)	15783	0.25000	0.29750
66	2,4,6-Trichlorophenol	196	5.130	5.130	(0.899)	15751	0.25000	0.20592
67	2,4,5-Trichlorophenol	196	5.160	5.160	(0.904)	14921	0.25000	0.18696
211	1,1'-Biphenyl	154	5.266	5.266	(0.923)	82010	0.25000	0.23142(Q)
68	1,2,3,5-Tetrachlorobenzene	216	5.048	5.048	(0.885)	30097	0.25000	0.23218
70	2-Chloronaphthalene	162	5.295	5.295	(0.928)	60751	0.25000	0.24624
73	2-Nitroaniline	65	5.354	5.354	(0.938)	18303	0.25000	0.20304
74	1,2,3,4-Tetrachlorobenzene	216	5.271	5.271	(0.924)	28690	0.25000	0.23708
76	Dimethylphthalate	163	5.466	5.466	(0.958)	69418	0.25000	0.24066
78	2,6-Dinitrotoluene	165	5.518	5.518	(0.967)	13250	0.25000	0.20894
79	Acenaphthylene	152	5.601	5.601	(0.981)	98176	0.25000	0.24027
80	1,2-Dinitrobenzene	168	5.560	5.560	(0.974)	6721	0.25000	0.21113
81	3-Nitroaniline	138	5.648	5.648	(0.990)	12718	0.25000	0.18523
82	Acenaphthene	153	5.730	5.730	(1.004)	66122	0.25000	0.24617
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.854	5.854	(1.026)	86991	0.25000	0.24118
87	2,4-Dinitrotoluene	165	5.818	5.818	(1.020)	15318	0.25000	0.17669
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	5.977	5.977	(1.047)	76957	0.25000	0.24605
94	Fluorene	166	6.107	6.107	(1.070)	73262	0.25000	0.23714
95	4-Chlorophenyl-phenylether	204	6.089	6.089	(1.067)	35145	0.25000	0.24434
96	4-Nitroaniline	138	6.101	6.101	(1.069)	12601	0.25000	0.23934
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	6.171	6.171	(0.907)	49792	0.25000	0.22924
100	1,2-Diphenylhydrazine	77	6.207	6.207	(0.912)	87823	0.25000	0.22536
106	4-Bromophenyl-phenylether	248	6.454	6.454	(0.948)	19442	0.25000	0.22906
107	Hexachlorobenzene	284	6.524	6.524	(0.959)	21896	0.25000	0.24086
212	Atrazine	200	6.542	6.542	(0.961)	13003	0.25000	0.23138(Q)
111	Pentachlorophenol	266	Compound Not Detected.					
115	Phenanthrene	178	6.824	6.824	(1.003)	106971	0.25000	0.24004
116	Anthracene	178	6.860	6.860	(1.008)	99939	0.25000	0.22440
119	Carbazole	167	6.965	6.965	(1.023)	91144	0.25000	0.21861
120	Di-n-Butylphthalate	149	7.183	7.183	(1.055)	109523	0.25000	0.21517
123	Fluoranthene	202	7.707	7.707	(1.132)	103675	0.25000	0.21703
124	Benzidine	184	7.783	7.783	(0.884)	33361	0.25000	0.30619
125	Pyrene	202	7.883	7.883	(0.896)	110582	0.25000	0.22086
131	Butylbenzylphthalate	149	8.306	8.306	(0.944)	53643	0.25000	0.23236
133	3,3'-Dimethoxybenzidine	244	8.706	8.706	(0.989)	16440	0.25000	0.15610
135	3,3'-Dichlorobenzidine	252	8.742	8.742	(0.993)	40204	0.25000	0.20697
136	Benzo(a)Anthracene	228	8.789	8.789	(0.999)	118737	0.25000	0.23149
137	Chrysene	228	8.818	8.818	(1.002)	114636	0.25000	0.23698
138	4,4'-Methylene bis(o-chloroan	231	8.736	8.736	(0.993)	18024	0.25000	0.28858

139	bis(2-ethylhexyl)Phthalate	149	8.724	8.724 (0.991)	70357	0.25000	0.21178(Q)
140	Di-n-octylphthalate	149	9.271	9.271 (0.906)	101326	0.25000	0.30563

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
141 Benzo(b)fluoranthene	252	9.789	9.789	(0.956)	105900	0.25000	0.30279
142 Benzo(k)fluoranthene	252	9.818	9.818	(0.959)	128468	0.25000	0.23490
146 Benzo(a)pyrene	252	10.165	10.165	(0.993)	108290	0.25000	0.22618
149 Indeno(1,2,3-cd)pyrene	276	11.747	11.747	(1.148)	120436	0.25000	0.22503
150 Dibenz(a,h)anthracene	278	11.759	11.759	(1.149)	98433	0.25000	0.21639
151 Benzo(g,h,i)perylene	276	12.212	12.212	(1.193)	100177	0.25000	0.23321
$ 154 Nitrobenzene-d5	82	3.901	3.901	(0.882)	41958	0.25000	0.22116
$ 155 2-Fluorobiphenyl	172	5.189	5.189	(0.909)	71530	0.25000	0.24417
$ 156 Terphenyl-d14	244	7.965	7.965	(0.905)	75937	0.25000	0.23155
$ 157 Phenol-d5	99	3.219	3.219	(0.915)	39867	0.25000	0.24400
$ 158 2-Fluorophenol	112	2.630	2.630	(0.748)	29504	0.25000	0.24615
$ 159 2,4,6-Tribromophenol	330	6.283	6.283	(1.101)	8100	0.25000	0.26365
$ 186 2-Chlorophenol-d4	132	3.360	3.360	(0.955)	31748	0.25000	0.24891
$ 187 1,2-Dichlorobenzene-d4	152	3.630	3.630	(1.032)	22255	0.25000	0.25208
101 Diphenylamine	169	6.171	6.171	(0.907)	49792	0.25000	0.22924

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4ag2.i
Lab File ID: 2SL0226.D
Lab Smp Id: L2
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Misc Info:

Calibration Date: 26-FEB-2010
Calibration Time: 15:18
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	160496	80248	320992	224025	39.58
2 Naphthalene-d8	665467	332734	1330934	922306	38.60
3 Acenaphthene-d10	376956	188478	753912	503088	33.46
4 Phenanthrene-d10	637427	318714	1274854	848748	33.15
5 Chrysene-d12	776077	388039	1552154	1033254	33.14
6 Perylene-d12	687083	343542	1374166	953270	38.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.52	3.02	4.02	3.52	0.00
2 Naphthalene-d8	4.42	3.92	4.92	4.42	0.00
3 Acenaphthene-d10	5.71	5.21	6.21	5.71	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.80	8.30	9.30	8.80	0.07
6 Perylene-d12	10.23	9.73	10.73	10.24	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SL0226.D

Page 1

Date : 26-FEB-2010 14:43

Client ID:

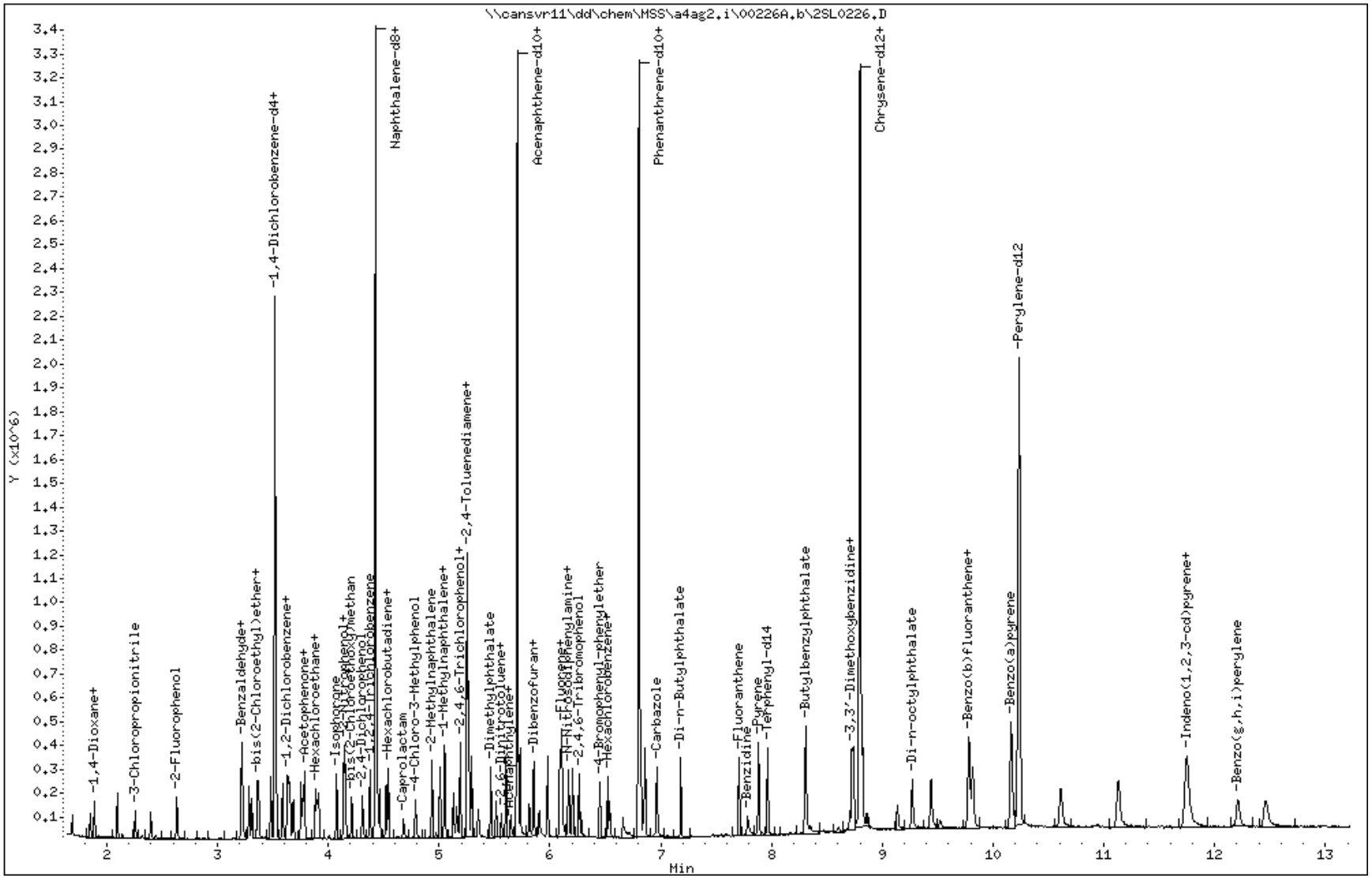
Instrument: a4ag2.i

Sample Info: L2,00226A.b,8270C-625,3-827042,SUB,1,,2

Operator: 046900

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SLL0226.D
Lab Smp Id: L1
Inj Date : 26-FEB-2010 15:00
Operator : 046900   Inst ID: a4ag2.i
Smp Info : L1,00226A.b,8270C-625,PAH.SUB,1,,1
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Meth Date : 28-Feb-2010 07:45 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:08   Cal File: 2NL0226.D
Als bottle: 10   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: PAH.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
*	1 1,4-Dichlorobenzene-d4	152	3.519	3.519	(1.000)	195427	2.00000		(Q)
*	2 Naphthalene-d8	136	4.425	4.425	(1.000)	806575	2.00000		
*	3 Acenaphthene-d10	164	5.701	5.701	(1.000)	446480	2.00000		
*	4 Phenanthrene-d10	188	6.807	6.807	(1.000)	732287	2.00000		
*	5 Chrysene-d12	240	8.795	8.795	(1.000)	907101	2.00000		
*	6 Perylene-d12	264	10.230	10.230	(1.000)	826515	2.00000		
	23 bis(2-Chloroethyl)ether	93	3.307	3.307	(0.940)	7069	0.05000	0.057606	
	35 Nitrobenzene	77	3.913	3.913	(0.884)	8595	0.05000	0.055820	
	51 Naphthalene	128	4.442	4.442	(1.004)	20019	0.05000	0.053859	
	62 2-Methylnaphthalene	142	4.936	4.936	(1.116)	10548	0.05000	0.051248	
	63 1-Methylnaphthalene	142	5.007	5.007	(1.132)	12682	0.05000	0.053332	
	70 2-Chloronaphthalene	162	5.295	5.295	(0.929)	11549	0.05000	0.052747	
	79 Acenaphthylene	152	5.601	5.601	(0.982)	16774	0.05000	0.046256	
	82 Acenaphthene	153	5.730	5.730	(1.005)	11557	0.05000	0.048482	
	86 Dibenzofuran	168	5.854	5.854	(1.027)	15653	0.05000	0.048899	
	94 Fluorene	166	6.107	6.107	(1.071)	13541	0.05000	0.049388	
	107 Hexachlorobenzene	284	6.519	6.519	(0.958)	3936	0.05000	0.050182	
	115 Phenanthrene	178	6.818	6.818	(1.002)	19035	0.05000	0.049507	
	116 Anthracene	178	6.860	6.860	(1.008)	18097	0.05000	0.047097	
	123 Fluoranthene	202	7.707	7.707	(1.132)	21107	0.05000	0.051213	
	125 Pyrene	202	7.883	7.883	(0.896)	22140	0.05000	0.050368	
	136 Benzo(a)Anthracene	228	8.789	8.789	(0.999)	24689	0.05000	0.054828	
	137 Chrysene	228	8.812	8.812	(1.002)	24414	0.05000	0.057488	
	141 Benzo(b)fluoranthene	252	9.783	9.783	(0.956)	19780	0.05000	0.14223	
	142 Benzo(k)fluoranthene	252	9.812	9.812	(0.959)	25205	0.05000	0.053154	
	146 Benzo(a)pyrene	252	10.165	10.165	(0.994)	21470	0.05000	0.051721	
	149 Indeno(1,2,3-cd)pyrene	276	11.748	11.748	(1.148)	19048	0.05000	0.041048	
	150 Dibenz(a,h)anthracene	278	11.753	11.753	(1.149)	17692	0.05000	0.044858(M)	
	151 Benzo(g,h,i)perylene	276	12.212	12.212	(1.194)	16291	0.05000	0.043741	
$	154 Nitrobenzene-d5	82	3.895	3.895	(0.880)	8012	0.05000	0.048290	
$	155 2-Fluorobiphenyl	172	5.189	5.189	(0.910)	13014	0.05000	0.050056	

$ 156 Terphenyl-d14	244	7.965	7.965 (0.906)	14020	0.05000	0.048697
$ 157 Phenol-d5	99	3.219	3.219 (0.915)	6780	0.05000	0.047569

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
$ 158 2-Fluorophenol	112	2.631	2.631	(0.748)	5609	0.05000	0.053644
$ 159 2,4,6-Tribromophenol	330	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4ag2.i
Lab File ID: 2SLL0226.D
Lab Smp Id: L1
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Misc Info:

Calibration Date: 26-FEB-2010
Calibration Time: 15:18
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	160496	80248	320992	195427	21.76
2 Naphthalene-d8	665467	332734	1330934	806575	21.20
3 Acenaphthene-d10	376956	188478	753912	446480	18.44
4 Phenanthrene-d10	637427	318714	1274854	732287	14.88
5 Chrysene-d12	776077	388039	1552154	907101	16.88
6 Perylene-d12	687083	343542	1374166	826515	20.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.52	3.02	4.02	3.52	0.00
2 Naphthalene-d8	4.42	3.92	4.92	4.43	0.00
3 Acenaphthene-d10	5.71	5.21	6.21	5.70	-0.10
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.80	8.30	9.30	8.80	0.00
6 Perylene-d12	10.23	9.73	10.73	10.23	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SLL0226.D

Page 1

Date : 26-FEB-2010 15:00

Client ID:

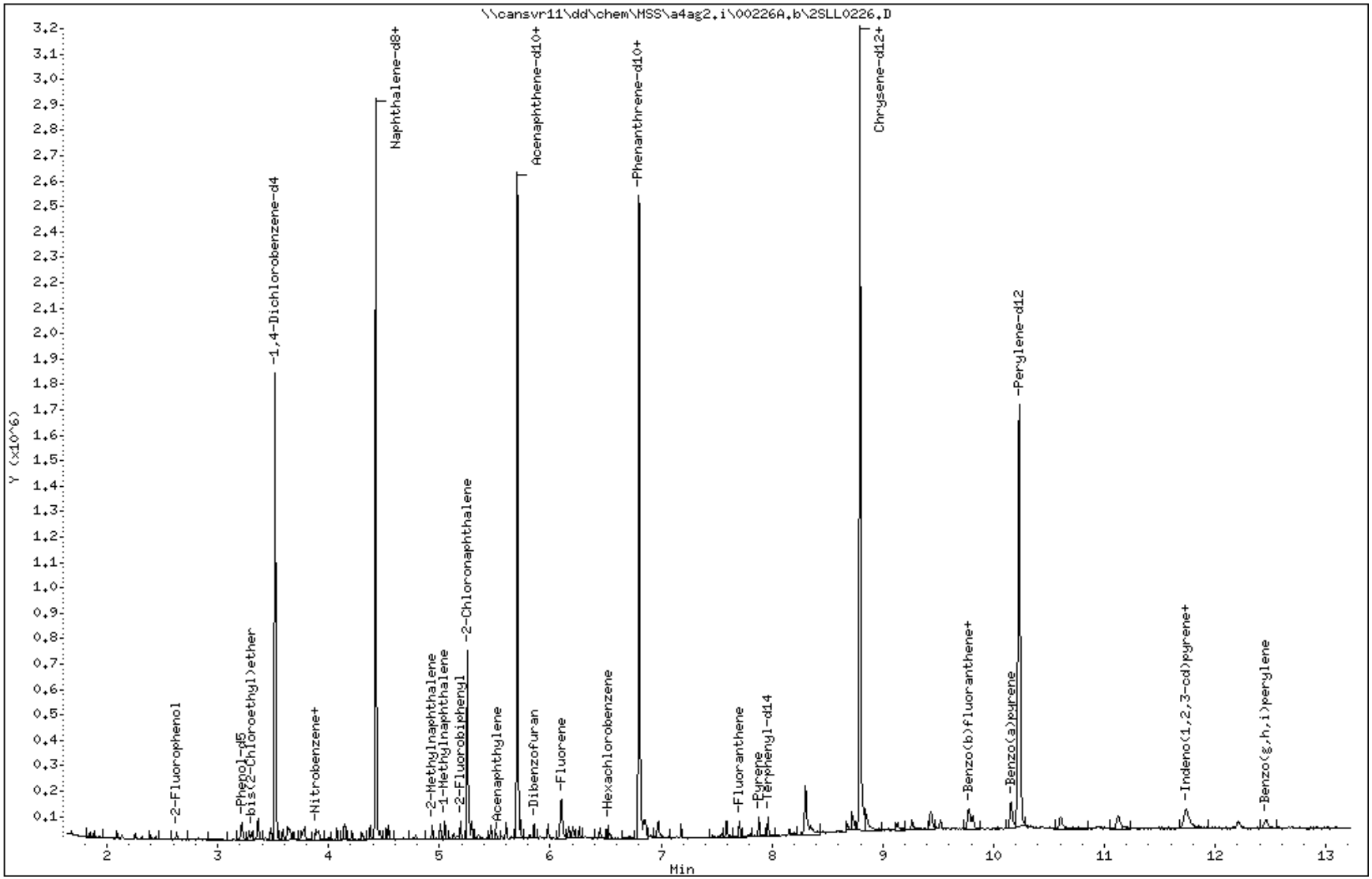
Instrument: a4ag2.i

Sample Info: L1,00226A.b,8270C-625,PAH.SUB,1,,1

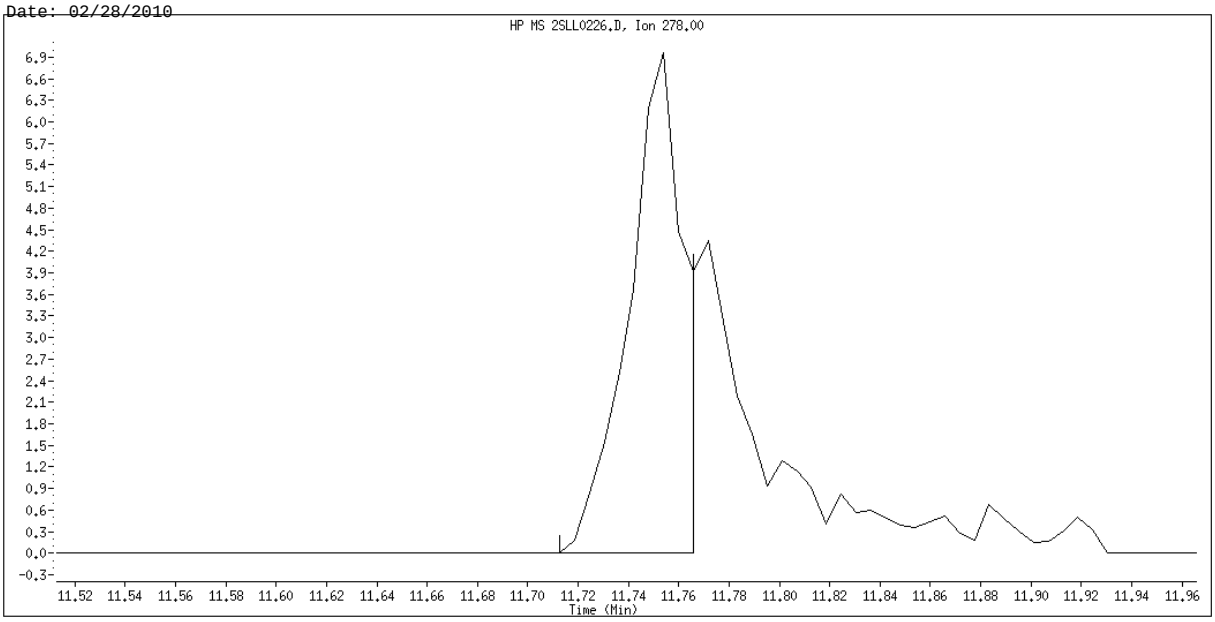
Operator: 046900

Column phase: db5.625

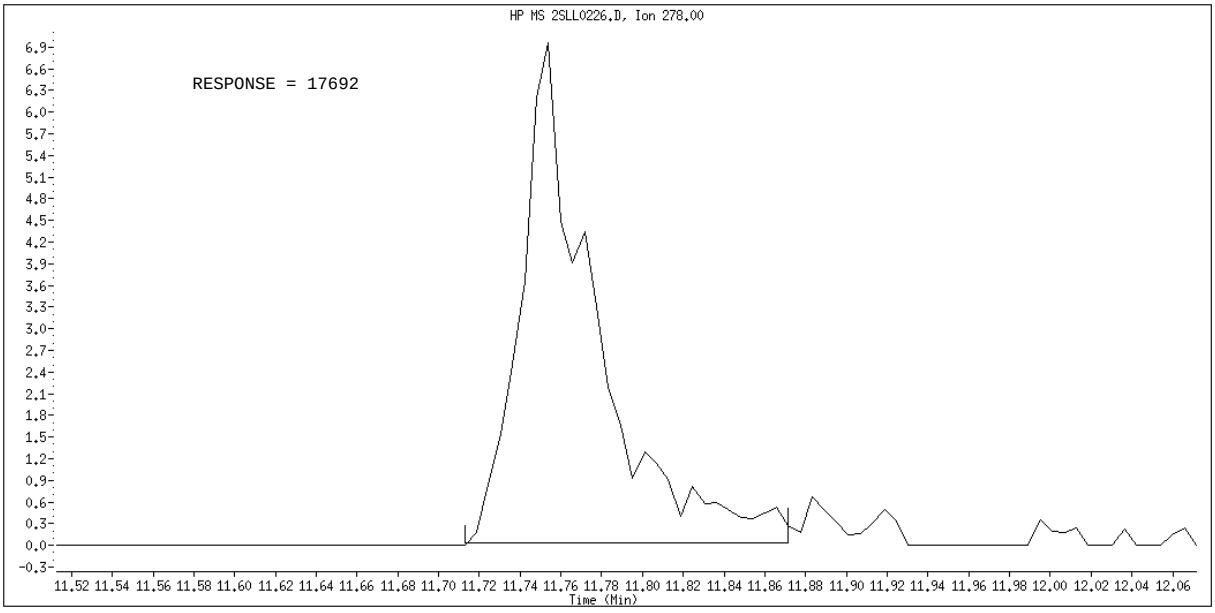
Column diameter: 0.32



Data File Name: 2SLL0226.D
Inj. Date and Time: 26-FEB-2010 15:00
Instrument ID: a4ag2.i
Client ID:
Compound Name: Dibenz(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/28/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SM0226.D
Lab Smp Id: L4
Inj Date : 26-FEB-2010 14:07
Operator : 046900 Inst ID: a4ag2.i
Smp Info : L4,00226A.b,8270C-625,3-827042.SUB,1,,4
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Meth Date : 28-Feb-2010 07:45 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 19:54 Cal File: 2NML0226.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.518	3.518	(1.000)	236182	2.00000	
*	2 Naphthalene-d8	136	4.424	4.424	(1.000)	954027	2.00000	
*	3 Acenaphthene-d10	164	5.707	5.707	(1.000)	538755	2.00000	
*	4 Phenanthrene-d10	188	6.801	6.801	(1.000)	887279	2.00000	
*	5 Chrysene-d12	240	8.795	8.795	(1.000)	1071989	2.00000	
*	6 Perylene-d12	264	10.224	10.224	(1.000)	983026	2.00000	
	198 1,4-Dioxane	88	1.689	1.689	(0.480)	61444	1.00000	0.94166
	9 Pyridine	79	1.883	1.883	(0.535)	148978	1.00000	0.93930
	10 N-Nitrosodimethylamine	74	1.848	1.848	(0.525)	87440	1.00000	0.97190
	12 3-Chloropropionitrile	54	2.254	2.254	(0.641)	71783	1.00000	0.92466
	209 Benzaldehyde	77	3.218	3.218	(0.915)	115072	1.00000	1.0300
	21 Aniline	93	3.283	3.283	(0.933)	208829	1.00000	0.92820
	22 Phenol	94	3.230	3.230	(0.918)	171859	1.00000	0.93701
	23 bis(2-Chloroethyl)ether	93	3.307	3.307	(0.940)	142335	1.00000	0.95975
	24 2-Chlorophenol	128	3.371	3.371	(0.958)	136478	1.00000	0.93234
	26 1,3-Dichlorobenzene	146	3.483	3.483	(0.990)	147654	1.00000	0.95854
	27 1,4-Dichlorobenzene	146	3.530	3.530	(1.003)	144292	1.00000	0.94733
	28 1,2-Dichlorobenzene	146	3.642	3.642	(1.035)	138494	1.00000	0.94321
	29 Benzyl Alcohol	108	3.589	3.589	(1.020)	92289	1.00000	0.94800
	30 2-Methylphenol	108	3.654	3.654	(1.038)	127126	1.00000	0.95202
	31 bis(2-Chloroisopropyl)ether	45	3.683	3.683	(1.047)	158263	1.00000	0.95946
	37 Acetophenone	105	3.783	3.783	(1.075)	190992	1.00000	0.94665
	32 N-Nitroso-di-n-propylamine	70	3.771	3.771	(1.072)	116034	1.00000	0.93932
	192 4-Methylphenol	108	3.754	3.754	(1.067)	131885	1.00000	0.93293
	34 Hexachloroethane	117	3.883	3.883	(1.104)	60772	1.00000	0.93379
	35 Nitrobenzene	77	3.913	3.913	(0.884)	169695	1.00000	0.93174
	41 Isophorone	82	4.071	4.071	(0.920)	304837	1.00000	0.95666
	42 2-Nitrophenol	139	4.142	4.142	(0.936)	69336	1.00000	0.92196
	43 2,4-Dimethylphenol	107	4.142	4.142	(0.936)	151131	1.00000	0.93848
	44 bis(2-Chloroethoxy)methane	93	4.207	4.207	(0.951)	156434	1.00000	0.96268
	46 2,4-Toluenediamene	121	5.248	5.248	(1.186)	76059	1.00000	0.99224

47	1,3,5-Trichlorobenzene	180	4.154	4.154 (0.939)	124748	1.00000	0.95521
48	2,4-Dichlorophenol	162	4.307	4.307 (0.973)	102194	1.00000	0.94240

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49	Benzoic Acid	122	4.177	4.177	(0.944)	137250	2.00000	2.0717(Q)
50	1,2,4-Trichlorobenzene	180	4.377	4.377	(0.989)	121220	1.00000	0.95441
51	Naphthalene	128	4.442	4.442	(1.004)	415909	1.00000	0.94601
52	4-Chloroaniline	127	4.460	4.460	(1.008)	169303	1.00000	0.94378
56	Hexachlorobutadiene	225	4.524	4.524	(1.023)	73958	1.00000	0.94791
210	Caprolactam	113	4.683	4.683	(1.058)	41642	1.00000	0.99453
57	1,2,3-Trichlorobenzene	180	4.542	4.542	(1.027)	110963	1.00000	0.92888
59	4-Chloro-3-Methylphenol	107	4.789	4.789	(1.082)	119485	1.00000	0.91566
62	2-Methylnaphthalene	142	4.936	4.936	(1.116)	233019	1.00000	0.95715
63	1-Methylnaphthalene	142	5.012	5.012	(1.133)	264080	1.00000	0.93890
64	Hexachlorocyclopentadiene	237	5.054	5.054	(0.886)	77000	1.00000	0.95511
66	2,4,6-Trichlorophenol	196	5.130	5.130	(0.899)	73521	1.00000	0.89753
67	2,4,5-Trichlorophenol	196	5.160	5.160	(0.904)	77665	1.00000	0.90870
211	1,1'-Biphenyl	154	5.265	5.265	(0.923)	334560	1.00000	0.88160
68	1,2,3,5-Tetrachlorobenzene	216	5.048	5.048	(0.885)	124241	1.00000	0.89498
70	2-Chloronaphthalene	162	5.295	5.295	(0.928)	244123	1.00000	0.92400
73	2-Nitroaniline	65	5.348	5.348	(0.937)	87748	1.00000	0.90897
74	1,2,3,4-Tetrachlorobenzene	216	5.265	5.265	(0.923)	115620	1.00000	0.89219
76	Dimethylphthalate	163	5.465	5.465	(0.958)	279707	1.00000	0.90551
78	2,6-Dinitrotoluene	165	5.518	5.518	(0.967)	59871	1.00000	0.88160
79	Acenaphthylene	152	5.601	5.601	(0.981)	407970	1.00000	0.93233
80	1,2-Dinitrobenzene	168	5.559	5.559	(0.974)	31675	1.00000	0.92916
81	3-Nitroaniline	138	5.648	5.648	(0.990)	65420	1.00000	0.88972
82	Acenaphthene	153	5.730	5.730	(1.004)	260162	1.00000	0.90447
83	2,4-Dinitrophenol	184	5.718	5.718	(1.002)	63663	2.00000	2.0135(Q)
85	4-Nitrophenol	109	5.742	5.742	(1.006)	33584	1.00000	0.79544(Q)
86	Dibenzofuran	168	5.854	5.854	(1.026)	358648	1.00000	0.92850
87	2,4-Dinitrotoluene	165	5.812	5.812	(1.019)	87081	1.00000	0.93797
91	2,3,5,6-Tetrachlorophenol	232	5.901	5.901	(1.034)	66373	1.00000	0.84678
93	Diethylphthalate	149	5.977	5.977	(1.047)	310905	1.00000	0.92822
94	Fluorene	166	6.107	6.107	(1.070)	296842	1.00000	0.89724
95	4-Chlorophenyl-phenylether	204	6.089	6.089	(1.067)	142754	1.00000	0.92678
96	4-Nitroaniline	138	6.095	6.095	(1.068)	72048	1.00000	0.94812
98	4,6-Dinitro-2-methylphenol	198	6.118	6.118	(0.900)	42893	1.00000	0.76340
99	N-Nitrosodiphenylamine	169	6.171	6.171	(0.907)	215243	1.00000	0.94792
100	1,2-Diphenylhydrazine	77	6.207	6.207	(0.913)	381390	1.00000	0.93619
106	4-Bromophenyl-phenylether	248	6.448	6.448	(0.948)	80198	1.00000	0.90383
107	Hexachlorobenzene	284	6.518	6.518	(0.958)	86545	1.00000	0.91066
212	Atrazine	200	6.542	6.542	(0.962)	56618	1.00000	0.96371
111	Pentachlorophenol	266	6.654	6.654	(0.978)	98573	2.00000	1.9244
115	Phenanthrene	178	6.818	6.818	(1.003)	424424	1.00000	0.91103
116	Anthracene	178	6.859	6.859	(1.009)	426970	1.00000	0.91708
119	Carbazole	167	6.965	6.965	(1.024)	403922	1.00000	0.92675
120	Di-n-Butylphthalate	149	7.183	7.183	(1.056)	490117	1.00000	0.92108
123	Fluoranthene	202	7.706	7.706	(1.133)	456844	1.00000	0.91483
124	Benzidine	184	7.777	7.777	(0.884)	221096	1.00000	0.97186
125	Pyrene	202	7.883	7.883	(0.896)	491362	1.00000	0.94590
131	Butylbenzylphthalate	149	8.306	8.306	(0.944)	218051	1.00000	0.91037
133	3,3'-Dimethoxybenzidine	244	8.700	8.700	(0.989)	90516	1.00000	0.82839
135	3,3'-Dichlorobenzidine	252	8.736	8.736	(0.993)	176157	1.00000	0.87409
136	Benzo(a)Anthracene	228	8.783	8.783	(0.999)	490125	1.00000	0.92102
137	Chrysene	228	8.812	8.812	(1.002)	456689	1.00000	0.90996

138	4,4'-Methylene bis(o-chloroan	231	8.730	8.730 (0.993)	86607	1.00000	0.99154
139	bis(2-ethylhexyl)Phthalate	149	8.718	8.718 (0.991)	319318	1.00000	0.92643

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.265	9.265	(0.906)	482896	1.00000	0.97153
141 Benzo(b)fluoranthene	252	9.783	9.783	(0.957)	458147	1.00000	0.94991
142 Benzo(k)fluoranthene	252	9.812	9.812	(0.960)	536572	1.00000	0.95140
146 Benzo(a)pyrene	252	10.159	10.159	(0.994)	441336	1.00000	0.89390
149 Indeno(1,2,3-cd)pyrene	276	11.741	11.741	(1.148)	507135	1.00000	0.91887
150 Dibenz(a,h)anthracene	278	11.747	11.747	(1.149)	411420	1.00000	0.87707
151 Benzo(g,h,i)perylene	276	12.206	12.206	(1.194)	411548	1.00000	0.92906
$ 154 Nitrobenzene-d5	82	3.901	3.901	(0.882)	192847	1.00000	0.98268
$ 155 2-Fluorobiphenyl	172	5.189	5.189	(0.909)	291842	1.00000	0.93026
$ 156 Terphenyl-d14	244	7.965	7.965	(0.906)	308376	1.00000	0.90635
$ 157 Phenol-d5	99	3.218	3.218	(0.915)	160588	1.00000	0.93228
$ 158 2-Fluorophenol	112	2.630	2.630	(0.748)	120083	1.00000	0.95028
$ 159 2,4,6-Tribromophenol	330	6.283	6.283	(1.101)	37171	1.00000	0.94930
$ 186 2-Chlorophenol-d4	132	3.360	3.360	(0.955)	126291	1.00000	0.93918
$ 187 1,2-Dichlorobenzene-d4	152	3.630	3.630	(1.032)	87068	1.00000	0.93547
101 Diphenylamine	169	6.171	6.171	(0.907)	215243	1.00000	0.94792

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4ag2.i
Lab File ID: 2SM0226.D
Lab Smp Id: L4
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Misc Info:

Calibration Date: 26-FEB-2010
Calibration Time: 15:18
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	160496	80248	320992	236182	47.16
2 Naphthalene-d8	665467	332734	1330934	954027	43.36
3 Acenaphthene-d10	376956	188478	753912	538755	42.92
4 Phenanthrene-d10	637427	318714	1274854	887279	39.20
5 Chrysene-d12	776077	388039	1552154	1071989	38.13
6 Perylene-d12	687083	343542	1374166	983026	43.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.52	3.02	4.02	3.52	-0.00
2 Naphthalene-d8	4.42	3.92	4.92	4.42	-0.00
3 Acenaphthene-d10	5.71	5.21	6.21	5.71	-0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.80	-0.09
5 Chrysene-d12	8.80	8.30	9.30	8.80	-0.00
6 Perylene-d12	10.23	9.73	10.73	10.22	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SM0226.D

Date : 26-FEB-2010 14:07

Client ID:

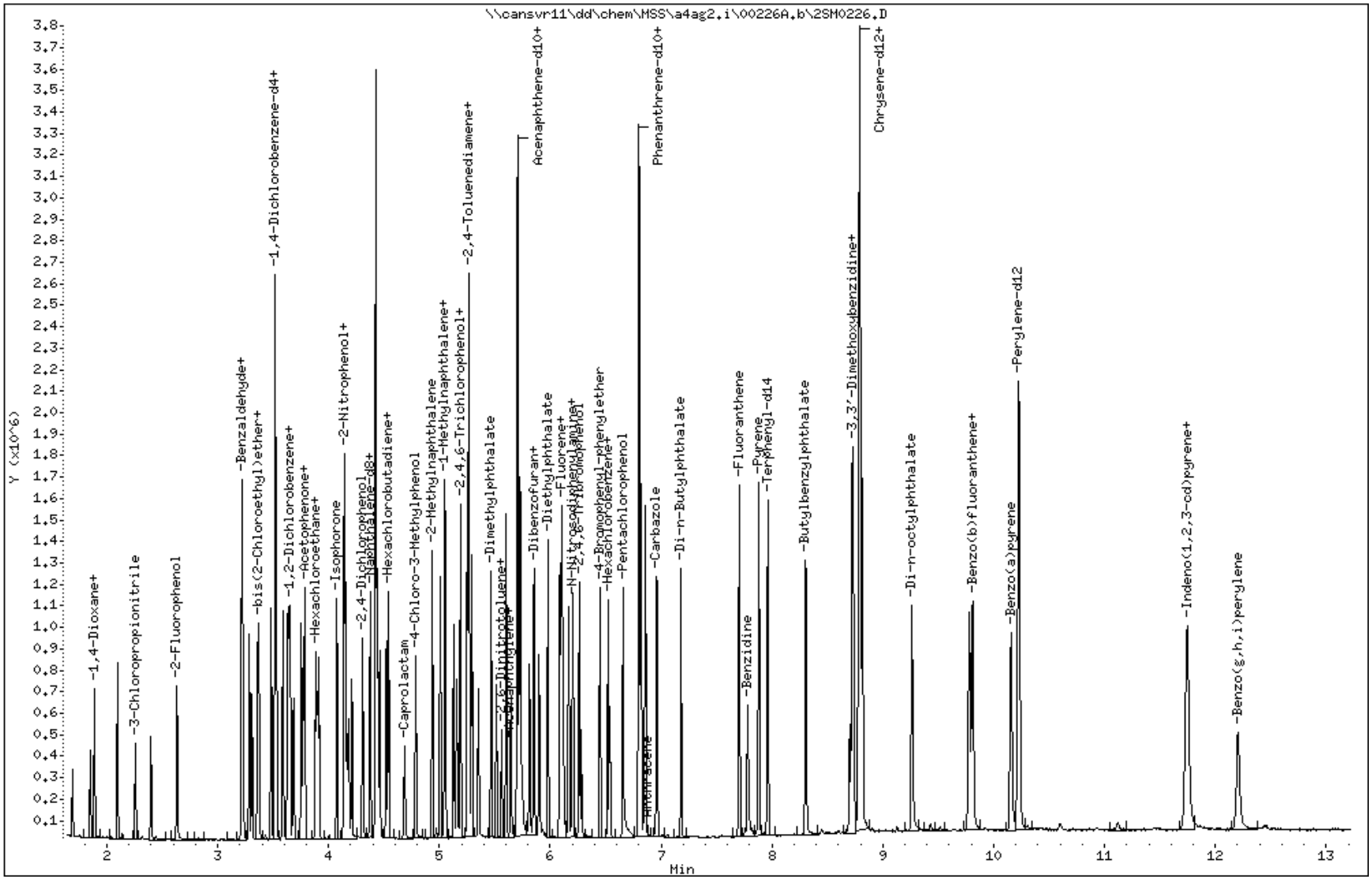
Instrument: a4ag2.i

Sample Info: L4,00226A.b,8270C-625,3-827042.SUB,1,,4

Operator: 046900

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SMH0226.D
Lab Smp Id: L6
Inj Date : 26-FEB-2010 13:32
Operator : 046900 Inst ID: a4ag2.i
Smp Info : L6,00226A.b,8270C-625,3-827042.SUB,1,,6
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Meth Date : 28-Feb-2010 07:45 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 19:19 Cal File: 2NMM0226.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.519	3.519	(1.000)	209382	2.00000	
*	2 Naphthalene-d8	136	4.424	4.424	(1.000)	852751	2.00000	
*	3 Acenaphthene-d10	164	5.707	5.707	(1.000)	454212	2.00000	
*	4 Phenanthrene-d10	188	6.807	6.807	(1.000)	776521	2.00000	
*	5 Chrysene-d12	240	8.801	8.801	(1.000)	958238	2.00000	
*	6 Perylene-d12	264	10.230	10.230	(1.000)	864288	2.00000	
	198 1,4-Dioxane	88	1.689	1.689	(0.480)	287520	5.00000	4.9704
	9 Pyridine	79	1.883	1.883	(0.535)	668590	5.00000	4.7550
	10 N-Nitrosodimethylamine	74	1.848	1.848	(0.525)	390147	5.00000	4.8916
	12 3-Chloropropionitrile	54	2.254	2.254	(0.641)	333072	5.00000	4.8396
	209 Benzaldehyde	77	3.219	3.219	(0.915)	474345	5.00000	4.7891
	21 Aniline	93	3.289	3.289	(0.935)	997338	5.00000	5.0004
	22 Phenol	94	3.230	3.230	(0.918)	791783	5.00000	4.8695
	23 bis(2-Chloroethyl)ether	93	3.307	3.307	(0.940)	620586	5.00000	4.7201
	24 2-Chlorophenol	128	3.372	3.372	(0.958)	635791	5.00000	4.8993
	26 1,3-Dichlorobenzene	146	3.483	3.483	(0.990)	663149	5.00000	4.8561
	27 1,4-Dichlorobenzene	146	3.530	3.530	(1.003)	658828	5.00000	4.8791
	28 1,2-Dichlorobenzene	146	3.642	3.642	(1.035)	624503	5.00000	4.7975
	29 Benzyl Alcohol	108	3.595	3.595	(1.022)	435572	5.00000	5.0469
	30 2-Methylphenol	108	3.654	3.654	(1.038)	573901	5.00000	4.8479
	31 bis(2-Chloroisopropyl)ether	45	3.683	3.683	(1.047)	715042	5.00000	4.8898
	37 Acetophenone	105	3.789	3.789	(1.077)	874060	5.00000	4.8868
	32 N-Nitroso-di-n-propylamine	70	3.777	3.777	(1.074)	537077	5.00000	4.9043
	192 4-Methylphenol	108	3.760	3.760	(1.069)	625601	5.00000	4.9918
	34 Hexachloroethane	117	3.883	3.883	(1.104)	283456	5.00000	4.9129
	35 Nitrobenzene	77	3.913	3.913	(0.884)	801506	5.00000	4.9234
	41 Isophorone	82	4.077	4.077	(0.922)	1403775	5.00000	4.9286
	42 2-Nitrophenol	139	4.142	4.142	(0.936)	337192	5.00000	5.0161
	43 2,4-Dimethylphenol	107	4.142	4.142	(0.936)	708966	5.00000	4.9254
	44 bis(2-Chloroethoxy)methane	93	4.213	4.213	(0.952)	713823	5.00000	4.9145
	46 2,4-Toluenediamene	121	5.248	5.248	(1.186)	322497	5.00000	4.7069

47	1,3,5-Trichlorobenzene	180	4.154	4.154 (0.939)	559466	5.00000	4.7927
48	2,4-Dichlorophenol	162	4.307	4.307 (0.973)	490329	5.00000	5.0587

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
49	Benzoic Acid	122	4.224	4.224	(0.955)	863453	10.0000	9.8837(M)
50	1,2,4-Trichlorobenzene	180	4.377	4.377	(0.989)	554196	5.00000	4.8816
51	Naphthalene	128	4.442	4.442	(1.004)	1900812	5.00000	4.8370
52	4-Chloroaniline	127	4.460	4.460	(1.008)	797787	5.00000	4.9754
56	Hexachlorobutadiene	225	4.524	4.524	(1.023)	335896	5.00000	4.8164
210	Caprolactam	113	4.713	4.713	(1.065)	206665	5.00000	4.9131
57	1,2,3-Trichlorobenzene	180	4.542	4.542	(1.027)	511502	5.00000	4.7903
59	4-Chloro-3-Methylphenol	107	4.789	4.789	(1.082)	579153	5.00000	4.9654
62	2-Methylnaphthalene	142	4.936	4.936	(1.116)	1058501	5.00000	4.8643
63	1-Methylnaphthalene	142	5.013	5.013	(1.133)	1218810	5.00000	4.8480
64	Hexachlorocyclopentadiene	237	5.054	5.054	(0.886)	405018	5.00000	5.0332
66	2,4,6-Trichlorophenol	196	5.130	5.130	(0.899)	357831	5.00000	5.1814
67	2,4,5-Trichlorophenol	196	5.160	5.160	(0.904)	378995	5.00000	5.2597
211	1,1'-Biphenyl	154	5.271	5.271	(0.924)	1589985	5.00000	4.9696
68	1,2,3,5-Tetrachlorobenzene	216	5.054	5.054	(0.886)	580512	5.00000	4.9601
70	2-Chloronaphthalene	162	5.295	5.295	(0.928)	1091042	5.00000	4.8982
73	2-Nitroaniline	65	5.354	5.354	(0.938)	422587	5.00000	5.1923
74	1,2,3,4-Tetrachlorobenzene	216	5.271	5.271	(0.924)	541209	5.00000	4.9536
76	Dimethylphthalate	163	5.471	5.471	(0.959)	1301443	5.00000	4.9974
78	2,6-Dinitrotoluene	165	5.518	5.518	(0.967)	306396	5.00000	5.3515
79	Acenaphthylene	152	5.607	5.607	(0.982)	1873469	5.00000	5.0783
80	1,2-Dinitrobenzene	168	5.571	5.571	(0.976)	151414	5.00000	5.2683
81	3-Nitroaniline	138	5.654	5.654	(0.991)	336997	5.00000	5.4363
82	Acenaphthene	153	5.730	5.730	(1.004)	1208321	5.00000	4.9827
83	2,4-Dinitrophenol	184	5.724	5.724	(1.003)	434239	10.0000	9.9924(Q)
85	4-Nitrophenol	109	5.748	5.748	(1.007)	267422	5.00000	5.5742
86	Dibenzofuran	168	5.854	5.854	(1.026)	1646342	5.00000	5.0555
87	2,4-Dinitrotoluene	165	5.818	5.818	(1.020)	418848	5.00000	5.3513
91	2,3,5,6-Tetrachlorophenol	232	5.907	5.907	(1.035)	336521	5.00000	5.0924
93	Diethylphthalate	149	5.983	5.983	(1.048)	1423803	5.00000	5.0420
94	Fluorene	166	6.107	6.107	(1.070)	1376727	5.00000	4.9359
95	4-Chlorophenyl-phenylether	204	6.089	6.089	(1.067)	641005	5.00000	4.9361
96	4-Nitroaniline	138	6.107	6.107	(1.070)	362505	5.00000	5.0064
98	4,6-Dinitro-2-methylphenol	198	6.124	6.124	(0.900)	245847	5.00000	4.9996
99	N-Nitrosodiphenylamine	169	6.171	6.171	(0.907)	972821	5.00000	4.8953
100	1,2-Diphenylhydrazine	77	6.207	6.207	(0.912)	1766180	5.00000	4.9538
106	4-Bromophenyl-phenylether	248	6.454	6.454	(0.948)	383574	5.00000	4.9394
107	Hexachlorobenzene	284	6.524	6.524	(0.959)	403552	5.00000	4.8520
212	Atrazine	200	6.542	6.542	(0.961)	268078	5.00000	5.2139
111	Pentachlorophenol	266	6.660	6.660	(0.978)	544927	10.0000	9.9442
115	Phenanthrene	178	6.824	6.824	(1.003)	1981155	5.00000	4.8591
116	Anthracene	178	6.860	6.860	(1.008)	2014049	5.00000	4.9430
119	Carbazole	167	6.965	6.965	(1.023)	1889346	5.00000	4.9532
120	Di-n-Butylphthalate	149	7.183	7.183	(1.055)	2414710	5.00000	5.1852
123	Fluoranthene	202	7.712	7.712	(1.133)	2156129	5.00000	4.9335
124	Benzidine	184	7.783	7.783	(0.884)	1251338	5.00000	5.0378
125	Pyrene	202	7.883	7.883	(0.896)	2305258	5.00000	4.9646
131	Butylbenzylphthalate	149	8.307	8.307	(0.944)	1073954	5.00000	5.0160
133	3,3'-Dimethoxybenzidine	244	8.706	8.706	(0.989)	515911	5.00000	5.2820
135	3,3'-Dichlorobenzidine	252	8.742	8.742	(0.993)	913691	5.00000	5.0719
136	Benzo(a)Anthracene	228	8.789	8.789	(0.999)	2314917	5.00000	4.8665
137	Chrysene	228	8.824	8.824	(1.003)	2135865	5.00000	4.7609

138	4,4'-Methylene bis(o-chloroan	231	8.736	8.736 (0.993)	449198	5.00000	4.9553
139	bis(2-ethylhexyl)Phthalate	149	8.724	8.724 (0.991)	1570999	5.00000	5.0990

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.271	9.271	(0.906)	2553726	5.00000	4.9421
141 Benzo(b)fluoranthene	252	9.795	9.795	(0.957)	2341068	5.00000	4.7867
142 Benzo(k)fluoranthene	252	9.824	9.824	(0.960)	2398759	5.00000	4.8376
146 Benzo(a)pyrene	252	10.171	10.171	(0.994)	2141934	5.00000	4.9344
149 Indeno(1,2,3-cd)pyrene	276	11.765	11.765	(1.150)	2478161	5.00000	5.1070
150 Dibenz(a,h)anthracene	278	11.771	11.771	(1.151)	2114589	5.00000	5.1272
151 Benzo(g,h,i)perylene	276	12.230	12.230	(1.195)	1956689	5.00000	5.0240
$ 154 Nitrobenzene-d5	82	3.901	3.901	(0.882)	901230	5.00000	5.1378
$ 155 2-Fluorobiphenyl	172	5.195	5.195	(0.910)	1299439	5.00000	4.9130
$ 156 Terphenyl-d14	244	7.965	7.965	(0.905)	1492929	5.00000	4.9088
$ 157 Phenol-d5	99	3.224	3.224	(0.916)	750717	5.00000	4.9160
$ 158 2-Fluorophenol	112	2.630	2.630	(0.748)	551220	5.00000	4.9204
$ 159 2,4,6-Tribromophenol	330	6.283	6.283	(1.101)	189404	5.00000	5.0979
$ 186 2-Chlorophenol-d4	132	3.360	3.360	(0.955)	585249	5.00000	4.9094
$ 187 1,2-Dichlorobenzene-d4	152	3.630	3.630	(1.032)	396146	5.00000	4.8010
101 Diphenylamine	169	6.171	6.171	(0.907)	972821	5.00000	4.8953

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4ag2.i
Lab File ID: 2SMH0226.D
Lab Smp Id: L6
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Misc Info:

Calibration Date: 26-FEB-2010
Calibration Time: 13:32
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	209382	104691	418764	209382	0.00
2 Naphthalene-d8	852751	426376	1705502	852751	0.00
3 Acenaphthene-d10	454212	227106	908424	454212	0.00
4 Phenanthrene-d10	776521	388261	1553042	776521	0.00
5 Chrysene-d12	958238	479119	1916476	958238	0.00
6 Perylene-d12	864288	432144	1728576	864288	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.52	3.02	4.02	3.52	0.00
2 Naphthalene-d8	4.42	3.92	4.92	4.42	0.00
3 Acenaphthene-d10	5.71	5.21	6.21	5.71	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.80	8.30	9.30	8.80	0.00
6 Perylene-d12	10.23	9.73	10.73	10.23	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SMH0226.D

Page 1

Date : 26-FEB-2010 13:32

Client ID:

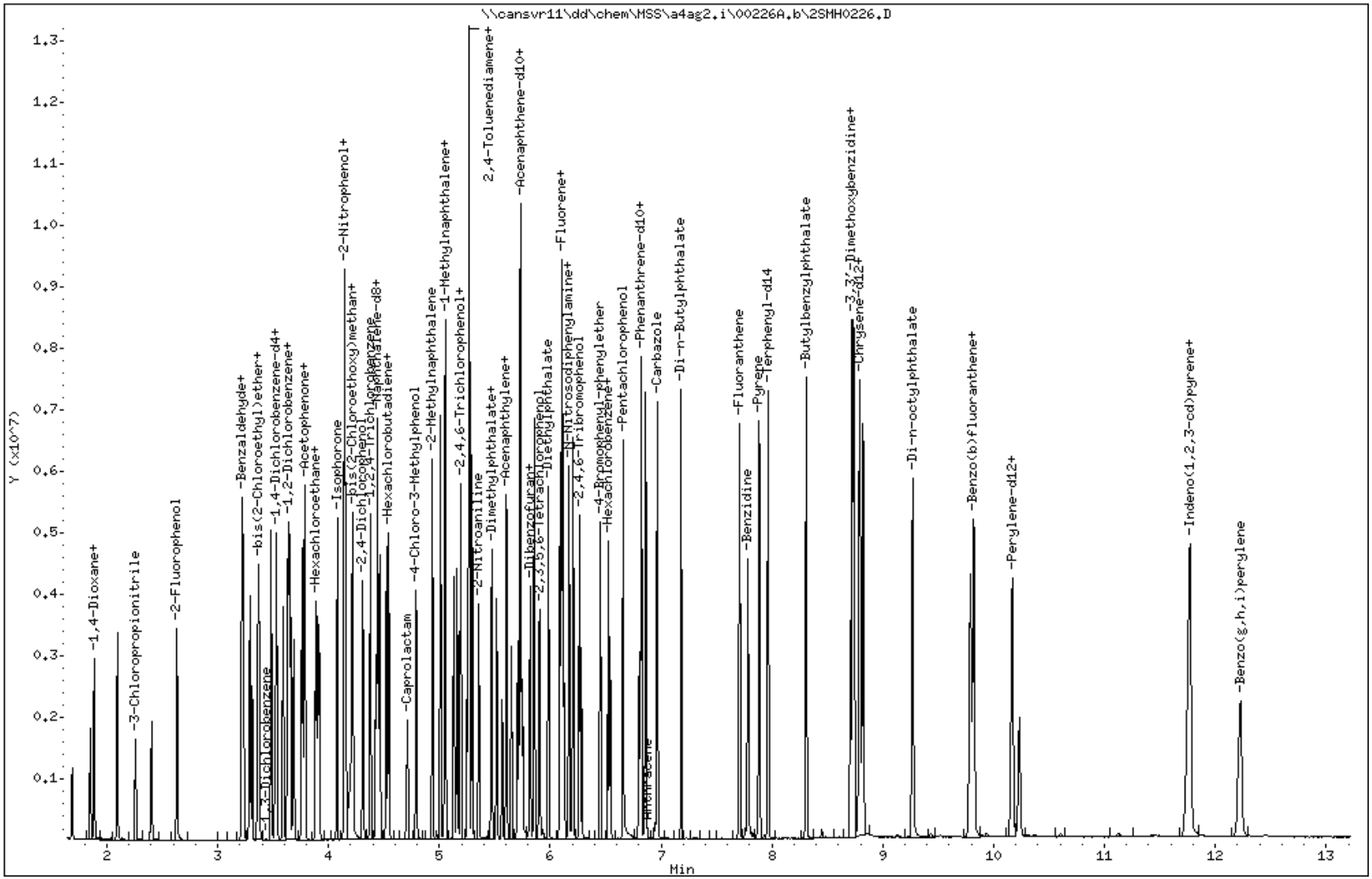
Instrument: a4ag2.i

Sample Info: L6,00226A.b,8270C-625,3-827042,SUB,1,,6

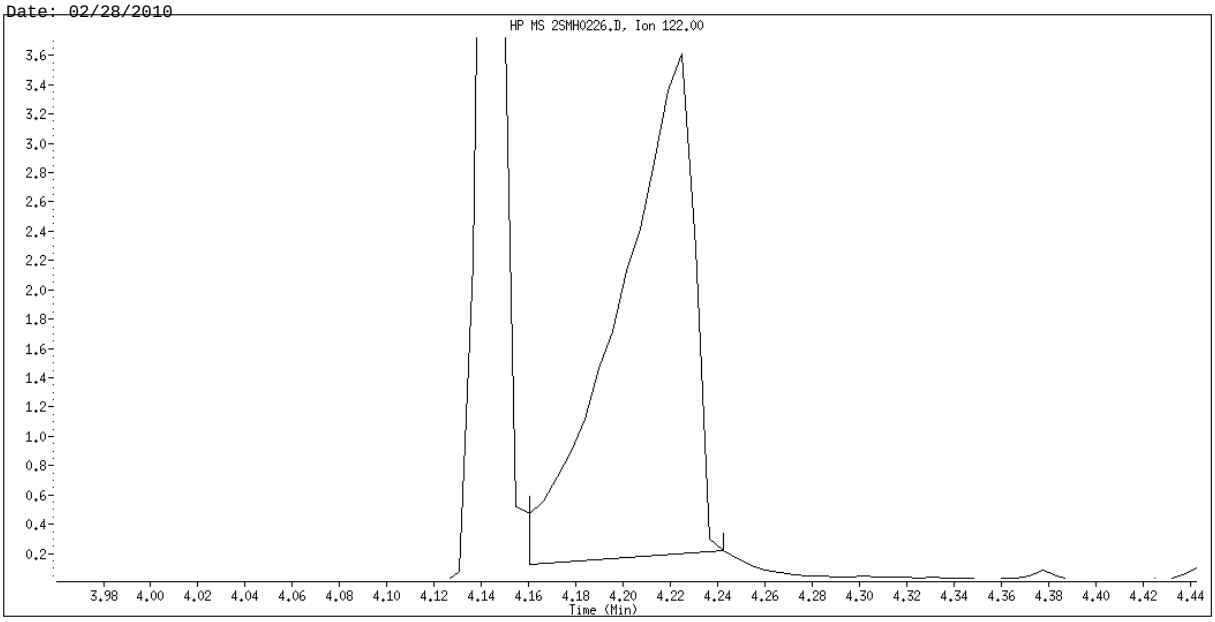
Operator: 046900

Column phase: db5.625

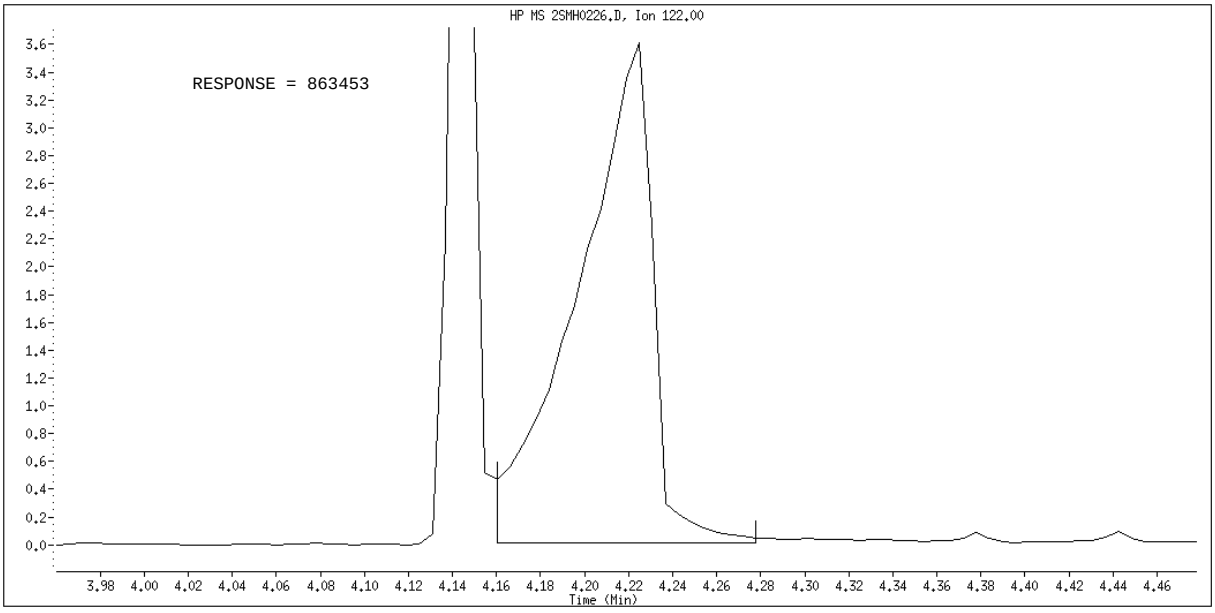
Column diameter: 0.32



Data File Name: 2SMH0226.D
Inj. Date and Time: 26-FEB-2010 13:32
Instrument ID: a4ag2.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 02/28/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SML0226.D
Lab Smp Id: L3
Inj Date : 26-FEB-2010 14:26
Operator : 046900 Inst ID: a4ag2.i
Smp Info : L3,00226A.b,8270C-625,3-827042.SUB,1,,3
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Meth Date : 28-Feb-2010 07:45 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:08 Cal File: 2NL0226.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.519	3.519	(1.000)	260454	2.00000	
*	2 Naphthalene-d8	136	4.424	4.424	(1.000)	1045079	2.00000	
*	3 Acenaphthene-d10	164	5.707	5.707	(1.000)	578312	2.00000	
*	4 Phenanthrene-d10	188	6.807	6.807	(1.000)	978234	2.00000	
*	5 Chrysene-d12	240	8.807	8.807	(1.000)	1172942	2.00000	
*	6 Perylene-d12	264	10.242	10.242	(1.000)	1064477	2.00000	
	198 1,4-Dioxane	88	1.689	1.689	(0.480)	34794	0.50000	0.48354
	9 Pyridine	79	1.883	1.883	(0.535)	87794	0.50000	0.50195
	10 N-Nitrosodimethylamine	74	1.848	1.848	(0.525)	48381	0.50000	0.48764
	12 3-Chloropropionitrile	54	2.254	2.254	(0.641)	42532	0.50000	0.49681
	209 Benzaldehyde	77	3.219	3.219	(0.915)	62586	0.50000	0.50798
	21 Aniline	93	3.283	3.283	(0.933)	115757	0.50000	0.46657
	22 Phenol	94	3.230	3.230	(0.918)	96302	0.50000	0.47612
	23 bis(2-Chloroethyl)ether	93	3.307	3.307	(0.940)	75184	0.50000	0.45971
	24 2-Chlorophenol	128	3.372	3.372	(0.958)	77390	0.50000	0.47942
	26 1,3-Dichlorobenzene	146	3.483	3.483	(0.990)	79969	0.50000	0.47076
	27 1,4-Dichlorobenzene	146	3.530	3.530	(1.003)	80793	0.50000	0.48100
	28 1,2-Dichlorobenzene	146	3.642	3.642	(1.035)	80440	0.50000	0.49678
	29 Benzyl Alcohol	108	3.589	3.589	(1.020)	51530	0.50000	0.48000
	30 2-Methylphenol	108	3.654	3.654	(1.038)	68578	0.50000	0.46570
	31 bis(2-Chloroisopropyl)ether	45	3.683	3.683	(1.047)	86082	0.50000	0.47323
	37 Acetophenone	105	3.783	3.783	(1.075)	107718	0.50000	0.48415
	32 N-Nitroso-di-n-propylamine	70	3.772	3.772	(1.072)	66704	0.50000	0.48966
	192 4-Methylphenol	108	3.754	3.754	(1.067)	75104	0.50000	0.48176
	34 Hexachloroethane	117	3.883	3.883	(1.104)	32239	0.50000	0.44920
	35 Nitrobenzene	77	3.913	3.913	(0.884)	91193	0.50000	0.45709
	41 Isophorone	82	4.077	4.077	(0.922)	162208	0.50000	0.46470
	42 2-Nitrophenol	139	4.142	4.142	(0.936)	37064	0.50000	0.44990
	43 2,4-Dimethylphenol	107	4.142	4.142	(0.936)	81478	0.50000	0.46188
	44 bis(2-Chloroethoxy)methane	93	4.213	4.213	(0.952)	85932	0.50000	0.48274
	46 2,4-Toluenediamene	121	5.248	5.248	(1.186)	42952	0.50000	0.51152

47	1,3,5-Trichlorobenzene	180	4.154	4.154 (0.939)	67997	0.50000	0.47530
48	2,4-Dichlorophenol	162	4.307	4.307 (0.973)	54497	0.50000	0.45877

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
49	Benzoic Acid	122	4.166	4.166	(0.942)	47053	1.00000	1.1250(Q)
50	1,2,4-Trichlorobenzene	180	4.377	4.377	(0.989)	66340	0.50000	0.47681
51	Naphthalene	128	4.442	4.442	(1.004)	225067	0.50000	0.46733
52	4-Chloroaniline	127	4.460	4.460	(1.008)	93441	0.50000	0.47550
56	Hexachlorobutadiene	225	4.524	4.524	(1.023)	41240	0.50000	0.48252
210	Caprolactam	113	4.683	4.683	(1.058)	20679	0.50000	0.49970
57	1,2,3-Trichlorobenzene	180	4.542	4.542	(1.027)	63908	0.50000	0.48837
59	4-Chloro-3-Methylphenol	107	4.789	4.789	(1.082)	60470	0.50000	0.42303
62	2-Methylnaphthalene	142	4.936	4.936	(1.116)	125594	0.50000	0.47094
63	1-Methylnaphthalene	142	5.013	5.013	(1.133)	145419	0.50000	0.47197
64	Hexachlorocyclopentadiene	237	5.054	5.054	(0.886)	39190	0.50000	0.51348
66	2,4,6-Trichlorophenol	196	5.130	5.130	(0.899)	39416	0.50000	0.44827
67	2,4,5-Trichlorophenol	196	5.160	5.160	(0.904)	44093	0.50000	0.48061
211	1,1'-Biphenyl	154	5.271	5.271	(0.924)	185630	0.50000	0.45569
68	1,2,3,5-Tetrachlorobenzene	216	5.054	5.054	(0.886)	67102	0.50000	0.45031
70	2-Chloronaphthalene	162	5.295	5.295	(0.928)	136141	0.50000	0.48004
73	2-Nitroaniline	65	5.354	5.354	(0.938)	45666	0.50000	0.44069
74	1,2,3,4-Tetrachlorobenzene	216	5.271	5.271	(0.924)	63958	0.50000	0.45978
76	Dimethylphthalate	163	5.466	5.466	(0.958)	157699	0.50000	0.47561
78	2,6-Dinitrotoluene	165	5.518	5.518	(0.967)	31767	0.50000	0.43578
79	Acenaphthylene	152	5.607	5.607	(0.982)	220365	0.50000	0.46915
80	1,2-Dinitrobenzene	168	5.566	5.566	(0.975)	16194	0.50000	0.44255
81	3-Nitroaniline	138	5.648	5.648	(0.990)	35992	0.50000	0.45602
82	Acenaphthene	153	5.730	5.730	(1.004)	145032	0.50000	0.46972
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.854	5.854	(1.026)	197040	0.50000	0.47522
87	2,4-Dinitrotoluene	165	5.818	5.818	(1.020)	45382	0.50000	0.45539
91	2,3,5,6-Tetrachlorophenol	232	5.907	5.907	(1.035)	36033	0.50000	0.42826
93	Diethylphthalate	149	5.983	5.983	(1.048)	168925	0.50000	0.46983
94	Fluorene	166	6.107	6.107	(1.070)	163984	0.50000	0.46176
95	4-Chlorophenyl-phenylether	204	6.089	6.089	(1.067)	77008	0.50000	0.46575
96	4-Nitroaniline	138	6.101	6.101	(1.069)	38016	0.50000	0.50617
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	6.171	6.171	(0.907)	118255	0.50000	0.47237
100	1,2-Diphenylhydrazine	77	6.207	6.207	(0.912)	207320	0.50000	0.46159
106	4-Bromophenyl-phenylether	248	6.454	6.454	(0.948)	43982	0.50000	0.44959
107	Hexachlorobenzene	284	6.524	6.524	(0.959)	45934	0.50000	0.43839
212	Atrazine	200	6.542	6.542	(0.961)	28644	0.50000	0.44223
111	Pentachlorophenol	266	6.660	6.660	(0.978)	49387	1.00000	1.0291
115	Phenanthrene	178	6.824	6.824	(1.003)	236564	0.50000	0.46057
116	Anthracene	178	6.860	6.860	(1.008)	233645	0.50000	0.45518
119	Carbazole	167	6.965	6.965	(1.023)	221002	0.50000	0.45992
120	Di-n-Butylphthalate	149	7.183	7.183	(1.055)	265685	0.50000	0.45288
123	Fluoranthene	202	7.712	7.712	(1.133)	240226	0.50000	0.43632
124	Benzidine	184	7.783	7.783	(0.884)	99872	0.50000	0.50911
125	Pyrene	202	7.889	7.889	(0.896)	264570	0.50000	0.46548
131	Butylbenzylphthalate	149	8.312	8.312	(0.944)	116926	0.50000	0.44615
133	3,3'-Dimethoxybenzidine	244	8.712	8.712	(0.989)	47330	0.50000	0.39588
135	3,3'-Dichlorobenzidine	252	8.748	8.748	(0.993)	95675	0.50000	0.43388
136	Benzo(a)Anthracene	228	8.795	8.795	(0.999)	272983	0.50000	0.46883
137	Chrysene	228	8.824	8.824	(1.002)	255429	0.50000	0.46514

138	4,4'-Methylene bis(o-chloroan	231	8.742	8.742 (0.993)	44522	0.50000	0.51793
139	bis(2-ethylhexyl)Phthalate	149	8.730	8.730 (0.991)	165263	0.50000	0.43820

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.277	9.277	(0.906)	244702	0.50000	0.52076
141 Benzo(b)fluoranthene	252	9.795	9.795	(0.956)	240138	0.50000	0.51272
142 Benzo(k)fluoranthene	252	9.824	9.824	(0.959)	298194	0.50000	0.48827
146 Benzo(a)pyrene	252	10.171	10.171	(0.993)	239918	0.50000	0.44876
149 Indeno(1,2,3-cd)pyrene	276	11.759	11.759	(1.148)	272065	0.50000	0.45523
150 Dibenz(a,h)anthracene	278	11.765	11.765	(1.149)	223173	0.50000	0.43936
151 Benzo(g,h,i)perylene	276	12.218	12.218	(1.193)	216715	0.50000	0.45180
$ 154 Nitrobenzene-d5	82	3.901	3.901	(0.882)	100875	0.50000	0.46924
$ 155 2-Fluorobiphenyl	172	5.189	5.189	(0.909)	157953	0.50000	0.46904
$ 156 Terphenyl-d14	244	7.971	7.971	(0.905)	165843	0.50000	0.44548
$ 157 Phenol-d5	99	3.219	3.219	(0.915)	88366	0.50000	0.46519
$ 158 2-Fluorophenol	112	2.630	2.630	(0.748)	65380	0.50000	0.46917
$ 159 2,4,6-Tribromophenol	330	6.283	6.283	(1.101)	18921	0.50000	0.48062
$ 186 2-Chlorophenol-d4	132	3.360	3.360	(0.955)	69061	0.50000	0.46572
$ 187 1,2-Dichlorobenzene-d4	152	3.630	3.630	(1.032)	51628	0.50000	0.50300
101 Diphenylamine	169	6.171	6.171	(0.907)	118255	0.50000	0.47237

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4ag2.i
Lab File ID: 2SML0226.D
Lab Smp Id: L3
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Misc Info:

Calibration Date: 26-FEB-2010
Calibration Time: 15:18
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	160496	80248	320992	260454	62.28
2 Naphthalene-d8	665467	332734	1330934	1045079	57.04
3 Acenaphthene-d10	376956	188478	753912	578312	53.42
4 Phenanthrene-d10	637427	318714	1274854	978234	53.47
5 Chrysene-d12	776077	388039	1552154	1172942	51.14
6 Perylene-d12	687083	343542	1374166	1064477	54.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.52	3.02	4.02	3.52	0.00
2 Naphthalene-d8	4.42	3.92	4.92	4.42	0.00
3 Acenaphthene-d10	5.71	5.21	6.21	5.71	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.80	8.30	9.30	8.81	0.13
6 Perylene-d12	10.23	9.73	10.73	10.24	0.12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SML0226.D

Page 1

Date : 26-FEB-2010 14:26

Client ID:

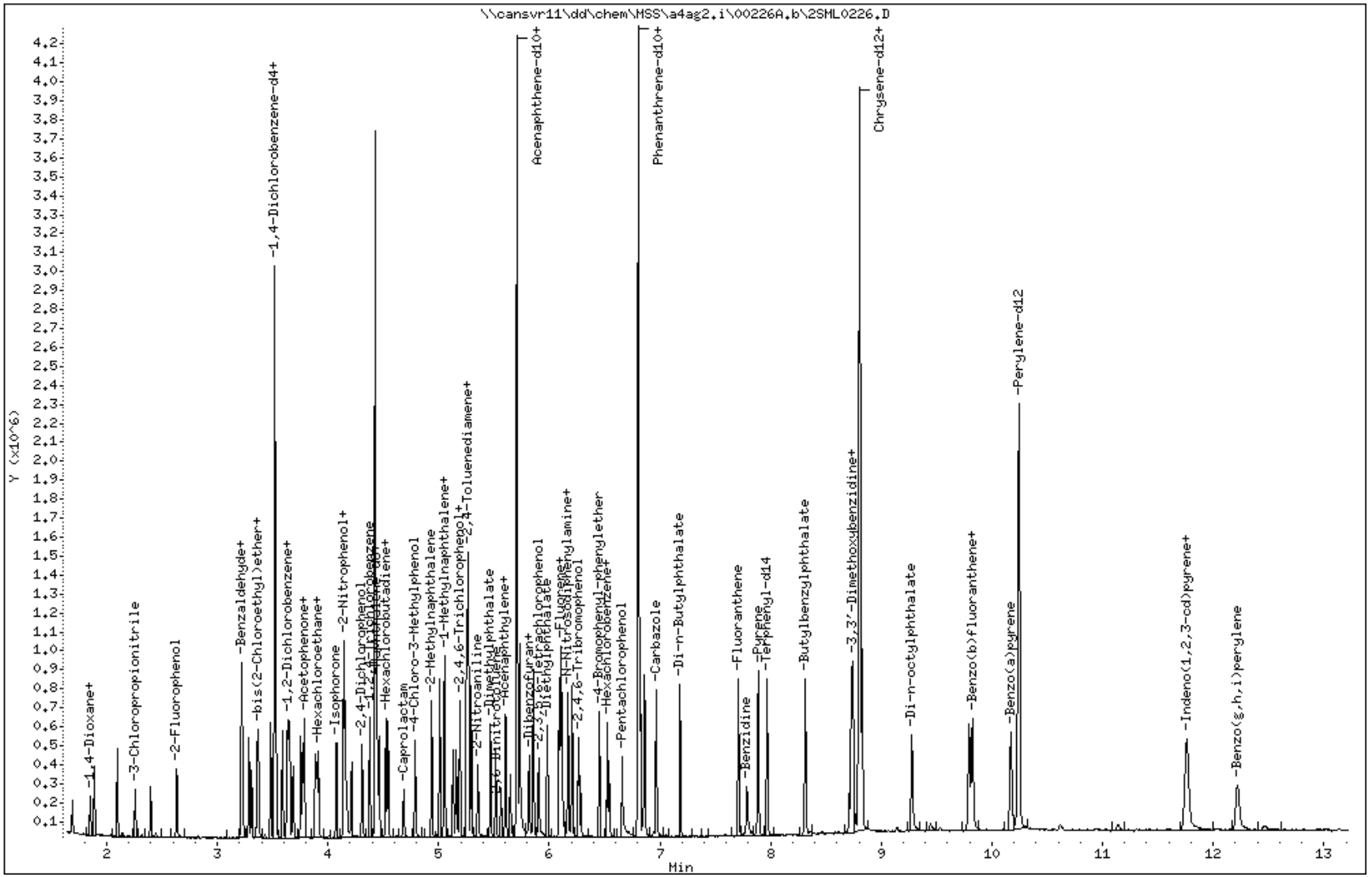
Instrument: a4ag2.i

Sample Info: L3,00226A.b,8270C-625,3-827042,SUB,1,,3

Operator: 046900

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SMM0226.D
Lab Smp Id: L5
Inj Date : 26-FEB-2010 13:50
Operator : 046900 Inst ID: a4ag2.i
Smp Info : L5,00226A.b,8270C-625,3-827042.SUB,1,,5
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Meth Date : 28-Feb-2010 07:45 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 19:36 Cal File: 2NM0226.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.519	3.519	(1.000)	246014	2.00000	
*	2 Naphthalene-d8	136	4.424	4.424	(1.000)	1014731	2.00000	
*	3 Acenaphthene-d10	164	5.707	5.707	(1.000)	559035	2.00000	
*	4 Phenanthrene-d10	188	6.807	6.807	(1.000)	938319	2.00000	
*	5 Chrysene-d12	240	8.801	8.801	(1.000)	1158823	2.00000	
*	6 Perylene-d12	264	10.230	10.230	(1.000)	1066480	2.00000	
	198 1,4-Dioxane	88	1.689	1.689	(0.480)	172942	2.50000	2.5445
	9 Pyridine	79	1.883	1.883	(0.535)	391637	2.50000	2.3706
	10 N-Nitrosodimethylamine	74	1.848	1.848	(0.525)	235034	2.50000	2.5080
	12 3-Chloropropionitrile	54	2.254	2.254	(0.641)	201243	2.50000	2.4887
	209 Benzaldehyde	77	3.219	3.219	(0.915)	305031	2.50000	2.6211
	21 Aniline	93	3.289	3.289	(0.935)	576411	2.50000	2.4596
	22 Phenol	94	3.230	3.230	(0.918)	484711	2.50000	2.5371
	23 bis(2-Chloroethyl)ether	93	3.307	3.307	(0.940)	394015	2.50000	2.5506
	24 2-Chlorophenol	128	3.371	3.371	(0.958)	388063	2.50000	2.5451
	26 1,3-Dichlorobenzene	146	3.483	3.483	(0.990)	404178	2.50000	2.5190
	27 1,4-Dichlorobenzene	146	3.530	3.530	(1.003)	396971	2.50000	2.5021
	28 1,2-Dichlorobenzene	146	3.642	3.642	(1.035)	385602	2.50000	2.5212
	29 Benzyl Alcohol	108	3.589	3.589	(1.020)	247959	2.50000	2.4453
	30 2-Methylphenol	108	3.654	3.654	(1.038)	348736	2.50000	2.5072
	31 bis(2-Chloroisopropyl)ether	45	3.683	3.683	(1.047)	421729	2.50000	2.4545
	37 Acetophenone	105	3.783	3.783	(1.075)	529083	2.50000	2.5176
	32 N-Nitroso-di-n-propylamine	70	3.777	3.777	(1.074)	326058	2.50000	2.5340
	192 4-Methylphenol	108	3.760	3.760	(1.069)	364607	2.50000	2.4761
	34 Hexachloroethane	117	3.883	3.883	(1.104)	173585	2.50000	2.5606
	35 Nitrobenzene	77	3.913	3.913	(0.884)	466218	2.50000	2.4067
	41 Isophorone	82	4.077	4.077	(0.922)	852573	2.50000	2.5155
	42 2-Nitrophenol	139	4.142	4.142	(0.936)	198994	2.50000	2.4877
	43 2,4-Dimethylphenol	107	4.142	4.142	(0.936)	422475	2.50000	2.4665
	44 bis(2-Chloroethoxy)methane	93	4.213	4.213	(0.952)	431028	2.50000	2.4938
	46 2,4-Toluenediamene	121	5.248	5.248	(1.186)	203466	2.50000	2.4956

47	1,3,5-Trichlorobenzene	180	4.154	4.154 (0.939)	340678	2.50000	2.4526
48	2,4-Dichlorophenol	162	4.307	4.307 (0.973)	291781	2.50000	2.5298

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
49	Benzoic Acid	122	4.207	4.207	(0.951)	446494	5.00000	4.8373(MH)
50	1,2,4-Trichlorobenzene	180	4.377	4.377	(0.989)	334442	2.50000	2.4757
51	Naphthalene	128	4.442	4.442	(1.004)	1143729	2.50000	2.4458
52	4-Chloroaniline	127	4.460	4.460	(1.008)	474657	2.50000	2.4877
56	Hexachlorobutadiene	225	4.524	4.524	(1.023)	201695	2.50000	2.4304
210	Caprolactam	113	4.701	4.701	(1.062)	123082	2.50000	2.5687
57	1,2,3-Trichlorobenzene	180	4.542	4.542	(1.027)	312355	2.50000	2.4583
59	4-Chloro-3-Methylphenol	107	4.789	4.789	(1.082)	352522	2.50000	2.5399
62	2-Methylnaphthalene	142	4.936	4.936	(1.116)	641523	2.50000	2.4775
63	1-Methylnaphthalene	142	5.013	5.013	(1.133)	729579	2.50000	2.4387
64	Hexachlorocyclopentadiene	237	5.054	5.054	(0.886)	226917	2.50000	2.4541
66	2,4,6-Trichlorophenol	196	5.130	5.130	(0.899)	221226	2.50000	2.6027
67	2,4,5-Trichlorophenol	196	5.160	5.160	(0.904)	222248	2.50000	2.5060
211	1,1'-Biphenyl	154	5.271	5.271	(0.924)	930219	2.50000	2.3623
68	1,2,3,5-Tetrachlorobenzene	216	5.048	5.048	(0.885)	342098	2.50000	2.3749
70	2-Chloronaphthalene	162	5.295	5.295	(0.928)	671763	2.50000	2.4504
73	2-Nitroaniline	65	5.354	5.354	(0.938)	257398	2.50000	2.5696
74	1,2,3,4-Tetrachlorobenzene	216	5.271	5.271	(0.924)	317805	2.50000	2.3634
76	Dimethylphthalate	163	5.471	5.471	(0.959)	810063	2.50000	2.5273
78	2,6-Dinitrotoluene	165	5.518	5.518	(0.967)	180827	2.50000	2.5661
79	Acenaphthylene	152	5.601	5.601	(0.981)	1142191	2.50000	2.5155
80	1,2-Dinitrobenzene	168	5.565	5.565	(0.975)	91114	2.50000	2.5758
81	3-Nitroaniline	138	5.648	5.648	(0.990)	193541	2.50000	2.5367
82	Acenaphthene	153	5.730	5.730	(1.004)	723298	2.50000	2.4234
83	2,4-Dinitrophenol	184	5.724	5.724	(1.003)	228218	5.00000	4.9073(Q)
85	4-Nitrophenol	109	5.748	5.748	(1.007)	140078	2.50000	2.6100(Q)
86	Dibenzofuran	168	5.854	5.854	(1.026)	992491	2.50000	2.4762
87	2,4-Dinitrotoluene	165	5.818	5.818	(1.020)	251860	2.50000	2.6144
91	2,3,5,6-Tetrachlorophenol	232	5.907	5.907	(1.035)	195944	2.50000	2.4091
93	Diethylphthalate	149	5.983	5.983	(1.048)	853575	2.50000	2.4559
94	Fluorene	166	6.107	6.107	(1.070)	844207	2.50000	2.4591
95	4-Chlorophenyl-phenylether	204	6.089	6.089	(1.067)	387389	2.50000	2.4238
96	4-Nitroaniline	138	6.101	6.101	(1.069)	218382	2.50000	2.5734
98	4,6-Dinitro-2-methylphenol	198	6.118	6.118	(0.899)	138036	2.50000	2.3231
99	N-Nitrosodiphenylamine	169	6.171	6.171	(0.907)	587337	2.50000	2.4459
100	1,2-Diphenylhydrazine	77	6.207	6.207	(0.912)	1072266	2.50000	2.4889
106	4-Bromophenyl-phenylether	248	6.454	6.454	(0.948)	226974	2.50000	2.4188
107	Hexachlorobenzene	284	6.524	6.524	(0.959)	243571	2.50000	2.4235
212	Atrazine	200	6.542	6.542	(0.961)	159008	2.50000	2.5593
111	Pentachlorophenol	266	6.654	6.654	(0.978)	305406	5.00000	4.9832
115	Phenanthrene	178	6.824	6.824	(1.003)	1209697	2.50000	2.4554
116	Anthracene	178	6.859	6.859	(1.008)	1210065	2.50000	2.4577
119	Carbazole	167	6.965	6.965	(1.023)	1146212	2.50000	2.4868
120	Di-n-Butylphthalate	149	7.183	7.183	(1.055)	1443152	2.50000	2.5646
123	Fluoranthene	202	7.712	7.712	(1.133)	1304838	2.50000	2.4708
124	Benzidine	184	7.783	7.783	(0.884)	738676	2.50000	2.5954
125	Pyrene	202	7.883	7.883	(0.896)	1393748	2.50000	2.4820
131	Butylbenzylphthalate	149	8.306	8.306	(0.944)	657999	2.50000	2.5413
133	3,3'-Dimethoxybenzidine	244	8.706	8.706	(0.989)	312079	2.50000	2.6421
135	3,3'-Dichlorobenzidine	252	8.742	8.742	(0.993)	536395	2.50000	2.4622
136	Benzo(a)Anthracene	228	8.789	8.789	(0.999)	1393949	2.50000	2.4232
137	Chrysene	228	8.818	8.818	(1.002)	1268830	2.50000	2.3387

138	4,4'-Methylene bis(o-chloroan	231	8.736	8.736 (0.993)	254886	2.50000	2.4808
139	bis(2-ethylhexyl)Phthalate	149	8.724	8.724 (0.991)	941794	2.50000	2.5276

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.271	9.271	(0.906)	1496504	2.50000	2.5001
141 Benzo(b)fluoranthene	252	9.789	9.789	(0.957)	1417467	2.50000	2.4779
142 Benzo(k)fluoranthene	252	9.818	9.818	(0.960)	1413448	2.50000	2.3101
146 Benzo(a)pyrene	252	10.165	10.165	(0.994)	1286885	2.50000	2.4026
149 Indeno(1,2,3-cd)pyrene	276	11.753	11.753	(1.149)	1475556	2.50000	2.4643
150 Dibenz(a,h)anthracene	278	11.765	11.765	(1.150)	1246432	2.50000	2.4492
151 Benzo(g,h,i)perylene	276	12.224	12.224	(1.195)	1168618	2.50000	2.4317
$ 154 Nitrobenzene-d5	82	3.901	3.901	(0.882)	529861	2.50000	2.5385
$ 155 2-Fluorobiphenyl	172	5.189	5.189	(0.909)	805277	2.50000	2.4737
$ 156 Terphenyl-d14	244	7.965	7.965	(0.905)	893058	2.50000	2.4281
$ 157 Phenol-d5	99	3.219	3.219	(0.915)	461111	2.50000	2.5699
$ 158 2-Fluorophenol	112	2.630	2.630	(0.748)	331791	2.50000	2.5207
$ 159 2,4,6-Tribromophenol	330	6.283	6.283	(1.101)	109617	2.50000	2.5373
$ 186 2-Chlorophenol-d4	132	3.360	3.360	(0.955)	352280	2.50000	2.5151
$ 187 1,2-Dichlorobenzene-d4	152	3.630	3.630	(1.032)	240249	2.50000	2.4781
101 Diphenylamine	169	6.171	6.171	(0.907)	587337	2.50000	2.4459

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4ag2.i
Lab File ID: 2SMM0226.D
Lab Smp Id: L5
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Misc Info:

Calibration Date: 26-FEB-2010
Calibration Time: 15:18
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	160496	80248	320992	246014	53.28
2 Naphthalene-d8	665467	332734	1330934	1014731	52.48
3 Acenaphthene-d10	376956	188478	753912	559035	48.30
4 Phenanthrene-d10	637427	318714	1274854	938319	47.20
5 Chrysene-d12	776077	388039	1552154	1158823	49.32
6 Perylene-d12	687083	343542	1374166	1066480	55.22

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.52	3.02	4.02	3.52	-0.00
2 Naphthalene-d8	4.42	3.92	4.92	4.42	-0.00
3 Acenaphthene-d10	5.71	5.21	6.21	5.71	-0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	-0.00
5 Chrysene-d12	8.80	8.30	9.30	8.80	0.07
6 Perylene-d12	10.23	9.73	10.73	10.23	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SMM0226.D

Page 1

Date : 26-FEB-2010 13:50

Client ID:

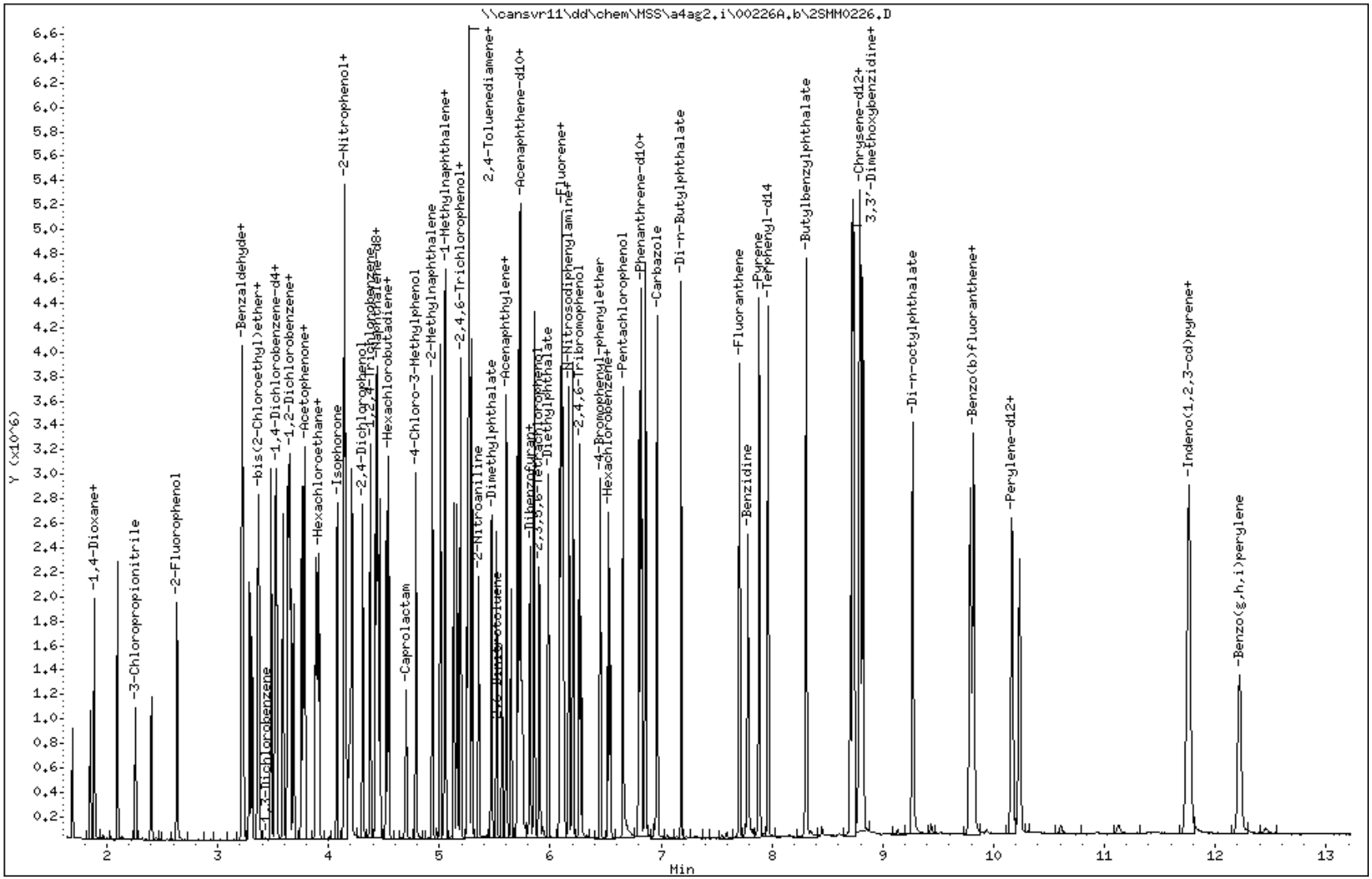
Instrument: a4ag2.i

Sample Info: L5,00226A.b,8270C-625,3-827042,SUB,1,,5

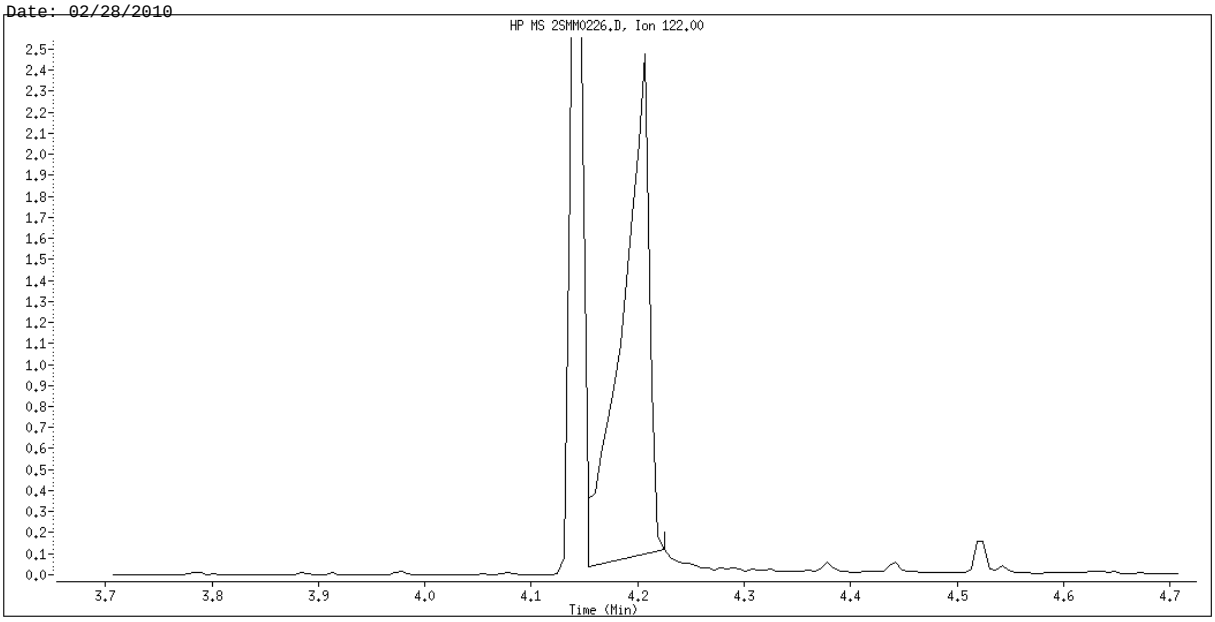
Operator: 046900

Column phase: db5.625

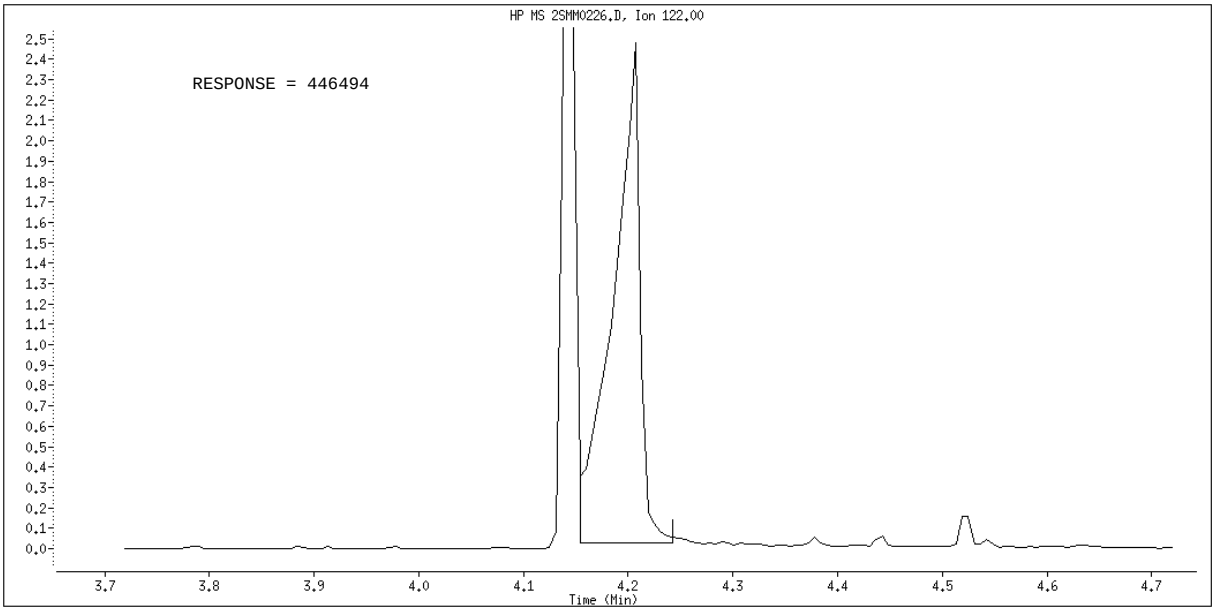
Column diameter: 0.32



Data File Name: 2SMM0226.D
Inj. Date and Time: 26-FEB-2010 13:50
Instrument ID: a4ag2.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 02/28/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Poor Chromatography

Report Date: 28-Feb-2010 07:53

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4ag2.i Injection Date: 26-FEB-2010 15:18
Lab File ID: ICVTCL.D Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 12:41 20:08
Lab Sample ID: ICVTCL Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
198 1,4-Dioxane	0.55254	0.56996	0.56996	0.010	-3.15261	50.00000	Averaged
9 Pyridine	1.34308	1.29708	1.29708	0.010	3.42497	50.00000	Averaged
10 N-Nitrosodimethylamine	0.76185	0.75397	0.75397	0.010	1.03502	50.00000	Averaged
12 3-Chloropropionitrile	0.65739	0.63458	0.63458	0.010	3.47039	50.00000	Averaged
209 Benzaldehyde	0.94609	0.93683	0.93683	0.010	0.97848	50.00000	Averaged
21 Aniline	1.90516	1.80449	1.80449	0.010	5.28419	50.00000	Averaged
22 Phenol	1.55315	1.55283	1.55283	0.010	0.02064	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.25585	1.29952	1.29952	0.010	-3.47781	50.00000	Averaged
24 2-Chlorophenol	1.23956	1.24066	1.24066	0.010	-0.08813	50.00000	Averaged
26 1,3-Dichlorobenzene	1.30442	1.28281	1.28281	0.010	1.65649	50.00000	Averaged
27 1,4-Dichlorobenzene	1.28980	1.28782	1.28782	0.010	0.15399	20.00000	Averaged
28 1,2-Dichlorobenzene	1.24339	1.24463	1.24463	0.010	-0.09955	50.00000	Averaged
29 Benzyl Alcohol	0.82437	0.82266	0.82266	0.010	0.20776	50.00000	Averaged
30 2-Methylphenol	1.13076	1.12703	1.12703	0.010	0.33055	50.00000	Averaged
31 bis(2-Chloroisopropyl)ether	1.39680	1.38885	1.38885	0.010	0.56908	50.00000	Averaged
37 Acetophenone	1.70848	1.70567	1.70567	0.010	0.16435	50.00000	Averaged
32 N-Nitroso-di-n-propylamine	1.04605	1.05048	1.05048	0.050	-0.42340	50.00000	Averaged
192 4-Methylphenol	1.19710	1.20781	1.20781	0.010	-0.89475	50.00000	Averaged
34 Hexachloroethane	0.55111	0.54643	0.54643	0.010	0.84979	50.00000	Averaged
35 Nitrobenzene	0.38181	0.36721	0.36721	0.010	3.82408	50.00000	Averaged
41 Isophorone	0.66801	0.67389	0.67389	0.010	-0.88033	50.00000	Averaged
42 2-Nitrophenol	0.15766	0.15282	0.15282	0.010	3.06743	20.00000	Averaged
43 2,4-Dimethylphenol	0.33759	0.33565	0.33565	0.010	0.57657	50.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.34066	0.34368	0.34368	0.010	-0.88592	50.00000	Averaged
46 2,4-Toluenediamene	0.16069	0.15034	0.15034	0.010	6.44210	50.00000	Averaged
47 1,3,5-Trichlorobenzene	0.27378	0.26573	0.26573	0.010	2.93977	50.00000	Averaged
48 2,4-Dichlorophenol	0.22733	0.22800	0.22800	0.010	-0.29452	20.00000	Averaged
49 Benzoic Acid	10.00000	8.73123	0.17555	0.010	12.68769	0.000e+000	Quadratic
50 1,2,4-Trichlorobenzene	0.26626	0.26298	0.26298	0.010	1.23302	50.00000	Averaged
51 Naphthalene	0.92166	0.88198	0.88198	0.010	4.30521	50.00000	Averaged
52 4-Chloroaniline	0.37607	0.37661	0.37661	0.010	-0.14385	50.00000	Averaged
56 Hexachlorobutadiene	0.16356	0.15717	0.15717	0.010	3.90933	20.00000	Averaged
210 Caprolactam	5.00000	4.98558	0.09848	0.010	0.28831	0.000e+000	Quadratic
57 1,2,3-Trichlorobenzene	0.25043	0.24503	0.24503	0.010	2.15851	50.00000	Averaged
59 4-Chloro-3-Methylphenol	0.27356	0.27769	0.27769	0.010	-1.50989	20.00000	Averaged
62 2-Methylnaphthalene	0.51036	0.50952	0.50952	0.010	0.16599	50.00000	Averaged
63 1-Methylnaphthalene	0.58964	0.57411	0.57411	0.010	2.63398	50.00000	Averaged
64 Hexachlorocyclopentadiene	5.00000	4.62939	0.32499	0.050	7.41215	0.000e+000	Quadratic
66 2,4,6-Trichlorophenol	0.30409	0.30586	0.30586	0.010	-0.58232	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.31728	0.31392	0.31392	0.010	1.05856	50.00000	Averaged
211 1,1'-Biphenyl	1.40878	1.34636	1.34636	0.010	4.43049	50.00000	Averaged
68 1,2,3,5-Tetrachlorobenzene	0.51534	0.48813	0.48813	0.010	5.27972	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4ag2.i Injection Date: 26-FEB-2010 15:18
Lab File ID: ICVTCL.D Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 12:41 20:08
Lab Sample ID: ICVTCL Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
70 2-Chloronaphthalene	0.98079	0.94698	0.94698	0.010	3.44708	50.00000	Averaged
73 2-Nitroaniline	0.35837	0.36182	0.36182	0.010	-0.96490	50.00000	Averaged
74 1,2,3,4-Tetrachlorobenzene	0.48108	0.45312	0.45312	0.010	5.81125	50.00000	Averaged
76 Dimethylphthalate	1.14670	1.14983	1.14983	0.010	-0.27346	50.00000	Averaged
78 2,6-Dinitrotoluene	0.25210	0.25820	0.25820	0.010	-2.41638	50.00000	Averaged
79 Acenaphthylene	1.62441	1.63791	1.63791	0.010	-0.83070	50.00000	Averaged
80 1,2-Dinitrobenzene	0.12655	0.12813	0.12813	0.010	-1.24625	50.00000	Averaged
81 3-Nitroaniline	0.27296	0.28944	0.28944	0.010	-6.03715	50.00000	Averaged
82 Acenaphthene	1.06780	1.04372	1.04372	0.010	2.25445	20.00000	Averaged
83 2,4-Dinitrophenol	10.00000	8.68496	0.16199	0.050	13.15037	0.000e+000	Quadratic
85 4-Nitrophenol	5.00000	4.86172	0.20135	0.050	2.76562	0.000e+000	Quadratic
86 Dibenzofuran	1.43392	1.41295	1.41295	0.010	1.46214	50.00000	Averaged
87 2,4-Dinitrotoluene	0.34464	0.36143	0.36143	0.010	-4.87036	50.00000	Averaged
91 2,3,5,6-Tetrachlorophenol	0.29098	0.28142	0.28142	0.010	3.28609	50.00000	Averaged
93 Diethylphthalate	1.24342	1.22756	1.22756	0.010	1.27505	50.00000	Averaged
94 Fluorene	1.22816	1.20790	1.20790	0.010	1.65000	50.00000	Averaged
95 4-Chlorophenyl-phenylether	0.57181	0.56373	0.56373	0.010	1.41190	50.00000	Averaged
96 4-Nitroaniline	5.00000	4.91891	0.31316	0.010	1.62186	0.000e+000	Quadratic
98 4,6-Dinitro-2-methylphenol	0.12665	0.11704	0.11704	0.010	7.58925	50.00000	Averaged
99 N-Nitrosodiphenylamine	0.51183	0.50489	0.50489	0.010	1.35588	20.00000	Averaged
100 1,2-Diphenylhydrazine	0.91828	0.90895	0.90895	0.010	1.01591	50.00000	Averaged
106 4-Bromophenyl-phenylether	0.20001	0.19671	0.19671	0.010	1.65129	50.00000	Averaged
107 Hexachlorobenzene	0.21422	0.20570	0.20570	0.010	3.97519	50.00000	Averaged
212 Atrazine	0.13243	0.13992	0.13992	0.010	-5.66123	50.00000	Averaged
111 Pentachlorophenol	10.00000	9.22461	0.12893	0.010	7.75394	20.00000	Quadratic
115 Phenanthrene	1.05012	1.04586	1.04586	0.010	0.40556	50.00000	Averaged
116 Anthracene	1.04944	1.03998	1.03998	0.010	0.90115	50.00000	Averaged
119 Carbazole	0.98243	0.97057	0.97057	0.010	1.20722	50.00000	Averaged
120 Di-n-Butylphthalate	1.19943	1.25106	1.25106	0.010	-4.30474	50.00000	Averaged
123 Fluoranthene	1.12564	1.12688	1.12688	0.010	-0.11009	20.00000	Averaged
124 Benzidine	5.00000	4.61775	0.47566	0.010	7.64496	0.000e+000	Quadratic
125 Pyrene	0.96916	0.99195	0.99195	0.010	-2.35242	50.00000	Averaged
131 Butylbenzylphthalate	0.44687	0.46439	0.46439	0.010	-3.92173	50.00000	Averaged
133 3,3'-Dimethoxybenzidine	0.20386	0.18997	0.18997	0.010	6.81271	50.00000	Averaged
135 3,3'-Dichlorobenzidine	0.37599	0.37911	0.37911	0.010	-0.82750	50.00000	Averaged
136 Benzo(a)Anthracene	0.99283	0.95786	0.95786	0.010	3.52216	50.00000	Averaged
137 Chrysene	0.93635	0.89367	0.89367	0.010	4.55796	50.00000	Averaged
138 4,4'-Methylene bis(o-chloro	5.00000	4.84150	0.18271	0.010	3.17002	0.000e+000	Quadratic
139 bis(2-ethylhexyl)Phthalate	0.64306	0.66015	0.66015	0.010	-2.65847	50.00000	Averaged
140 Di-n-octylphthalate	5.00000	4.87158	1.16321	0.010	2.56846	0.000e+000	Quadratic
141 Benzo(b)fluoranthene	5.00000	4.85104	1.09944	0.010	2.97916	0.000e+000	Quadratic
142 Benzo(k)fluoranthene	1.14744	1.11033	1.11033	0.010	3.23340	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4ag2.i Injection Date: 26-FEB-2010 15:18
Lab File ID: ICVTCL.D Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Analysis Type: Init. Cal. Times: 12:41 20:08
Lab Sample ID: ICVTCL Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
146 Benzo(a)pyrene	1.00449	0.99860	0.99860	0.010	0.58639	20.00000	Averaged
149 Indeno(1,2,3-cd)pyrene	1.12288	1.15059	1.15059	0.010	-2.46714	50.00000	Averaged
150 Dibenz(a,h)anthracene	0.95436	0.97470	0.97470	0.010	-2.13064	50.00000	Averaged
151 Benzo(g,h,i)perylene	0.90124	0.91160	0.91160	0.010	-1.14939	50.00000	Averaged
$ 154 Nitrobenzene-d5	0.41141	0.37323	0.37323	0.010	9.27942	50.00000	Averaged
$ 155 2-Fluorobiphenyl	1.16462	1.11897	1.11897	0.010	3.91962	50.00000	Averaged
$ 156 Terphenyl-d14	0.63478	0.63385	0.63385	0.010	0.14696	50.00000	Averaged
$ 157 Phenol-d5	1.45865	1.46771	1.46771	0.010	-0.62075	50.00000	Averaged
$ 158 2-Fluorophenol	1.07007	1.06615	1.06615	0.010	0.36623	50.00000	Averaged
$ 159 2,4,6-Tribromophenol	5.00000	4.85074	0.15787	0.010	2.98519	0.000e+000	Quadratic
$ 186 2-Chlorophenol-d4	1.13869	1.10211	1.10211	0.010	3.21250	50.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	0.78816	0.78437	0.78437	0.010	0.48115	50.00000	Averaged
M 195 Cresols, total	2.32787	2.33484	2.33484	0.010	-0.29956	50.00000	Averaged
101 Diphenylamine	0.51183	0.50489	0.50489	0.010	1.35588	50.00000	Averaged

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\ICVTCL.D
Lab Smp Id: ICVTCL
Inj Date : 26-FEB-2010 15:18
Operator : 046900 Inst ID: a4ag2.i
Smp Info : ICVTCL,00226A.b,8270C-625,3-827042.SUB,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Meth Date : 28-Feb-2010 07:53 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 18:10 Cal File: 2NHHH0226.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 1	1,4-Dichlorobenzene-d4	152	3.519	3.519	(1.000)	160496	2.00000		(Q)
* 2	Naphthalene-d8	136	4.424	4.424	(1.000)	665467	2.00000		
* 3	Acenaphthene-d10	164	5.707	5.707	(1.000)	376956	2.00000		
* 4	Phenanthrene-d10	188	6.807	6.807	(1.000)	637427	2.00000		
* 5	Chrysene-d12	240	8.795	8.795	(1.000)	776077	2.00000		
* 6	Perylene-d12	264	10.230	10.230	(1.000)	687083	2.00000		
198	1,4-Dioxane	88	1.678	1.678	(0.477)	228692	5.00000	5.1576	
9	Pyridine	79	1.877	1.877	(0.534)	520439	5.00000	4.8288	
10	N-Nitrosodimethylamine	74	1.842	1.842	(0.524)	302521	5.00000	4.9482	
12	3-Chloropropionitrile	54	2.254	2.254	(0.641)	254617	5.00000	4.8265	
209	Benzaldehyde	77	3.219	3.219	(0.915)	375895	5.00000	4.9511	
21	Aniline	93	3.283	3.283	(0.933)	724033	5.00000	4.7358	
22	Phenol	94	3.230	3.230	(0.918)	623056	5.00000	4.9990	
23	bis(2-Chloroethyl)ether	93	3.307	3.307	(0.940)	521421	5.00000	5.1739	
24	2-Chlorophenol	128	3.372	3.372	(0.958)	497801	5.00000	5.0044	
26	1,3-Dichlorobenzene	146	3.483	3.483	(0.990)	514715	5.00000	4.9172	
27	1,4-Dichlorobenzene	146	3.530	3.530	(1.003)	516723	5.00000	4.9923	
28	1,2-Dichlorobenzene	146	3.642	3.642	(1.035)	499394	5.00000	5.0050	
29	Benzyl Alcohol	108	3.589	3.589	(1.020)	330083	5.00000	4.9896	
30	2-Methylphenol	108	3.654	3.654	(1.038)	452208	5.00000	4.9835	
31	bis(2-Chloroisopropyl)ether	45	3.683	3.683	(1.047)	557264	5.00000	4.9715	
37	Acetophenone	105	3.783	3.783	(1.075)	684384	5.00000	4.9918	
32	N-Nitroso-di-n-propylamine	70	3.777	3.777	(1.074)	421495	5.00000	5.0212	
192	4-Methylphenol	108	3.760	3.760	(1.069)	484623	5.00000	5.0447	
34	Hexachloroethane	117	3.883	3.883	(1.104)	219248	5.00000	4.9575	
35	Nitrobenzene	77	3.913	3.913	(0.884)	610910	5.00000	4.8088	
41	Isophorone	82	4.077	4.077	(0.922)	1121125	5.00000	5.0440	
42	2-Nitrophenol	139	4.142	4.142	(0.936)	254245	5.00000	4.8466	
43	2,4-Dimethylphenol	107	4.142	4.142	(0.936)	558407	5.00000	4.9712	
44	bis(2-Chloroethoxy)methane	93	4.213	4.213	(0.952)	571765	5.00000	5.0443	

46	2,4-Toluenediamene	121	5.248	5.248 (1.186)	250120	5.00000	4.6779
47	1,3,5-Trichlorobenzene	180	4.154	4.154 (0.939)	442090	5.00000	4.8530
48	2,4-Dichlorophenol	162	4.307	4.307 (0.973)	379316	5.00000	5.0147

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
49	Benzoic Acid	122	4.219	4.219	(0.953)	584114	10.0000	8.7312(H)
50	1,2,4-Trichlorobenzene	180	4.377	4.377	(0.989)	437509	5.00000	4.9383
51	Naphthalene	128	4.442	4.442	(1.004)	1467328	5.00000	4.7847
52	4-Chloroaniline	127	4.460	4.460	(1.008)	626549	5.00000	5.0072
56	Hexachlorobutadiene	225	4.524	4.524	(1.023)	261477	5.00000	4.8045
210	Caprolactam	113	4.707	4.707	(1.064)	163844	5.00000	4.9856
57	1,2,3-Trichlorobenzene	180	4.542	4.542	(1.027)	407642	5.00000	4.8921
59	4-Chloro-3-Methylphenol	107	4.789	4.789	(1.082)	461981	5.00000	5.0755
62	2-Methylnaphthalene	142	4.936	4.936	(1.116)	847664	5.00000	4.9917
63	1-Methylnaphthalene	142	5.013	5.013	(1.133)	955121	5.00000	4.8683
64	Hexachlorocyclopentadiene	237	5.054	5.054	(0.886)	306264	5.00000	4.6294
66	2,4,6-Trichlorophenol	196	5.136	5.136	(0.900)	288238	5.00000	5.0291
67	2,4,5-Trichlorophenol	196	5.160	5.160	(0.904)	295835	5.00000	4.9471
211	1,1'-Biphenyl	154	5.271	5.271	(0.924)	1268797	5.00000	4.7785
68	1,2,3,5-Tetrachlorobenzene	216	5.054	5.054	(0.886)	460009	5.00000	4.7360
70	2-Chloronaphthalene	162	5.295	5.295	(0.928)	892426	5.00000	4.8276
73	2-Nitroaniline	65	5.354	5.354	(0.938)	340979	5.00000	5.0482
74	1,2,3,4-Tetrachlorobenzene	216	5.271	5.271	(0.924)	427017	5.00000	4.7094
76	Dimethylphthalate	163	5.471	5.471	(0.959)	1083590	5.00000	5.0137
78	2,6-Dinitrotoluene	165	5.518	5.518	(0.967)	243322	5.00000	5.1208
79	Acenaphthylene	152	5.607	5.607	(0.982)	1543549	5.00000	5.0415
80	1,2-Dinitrobenzene	168	5.565	5.565	(0.975)	120746	5.00000	5.0623
81	3-Nitroaniline	138	5.654	5.654	(0.991)	272761	5.00000	5.3018
82	Acenaphthene	153	5.730	5.730	(1.004)	983594	5.00000	4.8873
83	2,4-Dinitrophenol	184	5.724	5.724	(1.003)	305317	10.0000	8.6850(Q)
85	4-Nitrophenol	109	5.748	5.748	(1.007)	189752	5.00000	4.8617
86	Dibenzofuran	168	5.854	5.854	(1.026)	1331553	5.00000	4.9269
87	2,4-Dinitrotoluene	165	5.818	5.818	(1.020)	340608	5.00000	5.2435
91	2,3,5,6-Tetrachlorophenol	232	5.907	5.907	(1.035)	265204	5.00000	4.8357
93	Diethylphthalate	149	5.983	5.983	(1.048)	1156843	5.00000	4.9362
94	Fluorene	166	6.107	6.107	(1.070)	1138312	5.00000	4.9175
95	4-Chlorophenyl-phenylether	204	6.089	6.089	(1.067)	531258	5.00000	4.9294
96	4-Nitroaniline	138	6.101	6.101	(1.069)	295122	5.00000	4.9189
98	4,6-Dinitro-2-methylphenol	198	6.124	6.124	(0.900)	186508	5.00000	4.6205
99	N-Nitrosodiphenylamine	169	6.171	6.171	(0.907)	804578	5.00000	4.9322
100	1,2-Diphenylhydrazine	77	6.207	6.207	(0.912)	1448476	5.00000	4.9492
106	4-Bromophenyl-phenylether	248	6.454	6.454	(0.948)	313463	5.00000	4.9174
107	Hexachlorobenzene	284	6.524	6.524	(0.959)	327801	5.00000	4.8012
212	Atrazine	200	6.542	6.542	(0.961)	222978	5.00000	5.2831
111	Pentachlorophenol	266	6.660	6.660	(0.978)	410913	10.0000	9.2246
115	Phenanthrene	178	6.824	6.824	(1.003)	1666648	5.00000	4.9797
116	Anthracene	178	6.860	6.860	(1.008)	1657283	5.00000	4.9549
119	Carbazole	167	6.965	6.965	(1.023)	1546674	5.00000	4.9396
120	Di-n-Butylphthalate	149	7.183	7.183	(1.055)	1993649	5.00000	5.2152
123	Fluoranthene	202	7.712	7.712	(1.133)	1795753	5.00000	5.0055
124	Benzidine	184	7.783	7.783	(0.885)	922865	5.00000	4.6178
125	Pyrene	202	7.883	7.883	(0.896)	1924583	5.00000	5.1176
131	Butylbenzylphthalate	149	8.306	8.306	(0.944)	901013	5.00000	5.1961
133	3,3'-Dimethoxybenzidine	244	8.706	8.706	(0.990)	368579	5.00000	4.6594
135	3,3'-Dichlorobenzidine	252	8.742	8.742	(0.994)	735538	5.00000	5.0414
136	Benzo(a)Anthracene	228	8.789	8.789	(0.999)	1858437	5.00000	4.8239
137	Chrysene	228	8.818	8.818	(1.003)	1733891	5.00000	4.7721

138	4,4'-Methylene bis(o-chloroan	231	8.736	8.736 (0.993)	354489	5.00000	4.8415
139	bis(2-ethylhexyl)Phthalate	149	8.724	8.724 (0.992)	1280827	5.00000	5.1329

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.271	9.271	(0.906)	1998062	5.00000	4.8716
141 Benzo(b)fluoranthene	252	9.789	9.789	(0.957)	1888513	5.00000	4.8510
142 Benzo(k)fluoranthene	252	9.818	9.818	(0.960)	1907230	5.00000	4.8383
146 Benzo(a)pyrene	252	10.165	10.165	(0.994)	1715298	5.00000	4.9707
149 Indeno(1,2,3-cd)pyrene	276	11.759	11.759	(1.149)	1976370	5.00000	5.1234
150 Dibenz(a,h)anthracene	278	11.765	11.765	(1.150)	1674246	5.00000	5.1065
151 Benzo(g,h,i)perylene	276	12.224	12.224	(1.195)	1565859	5.00000	5.0575
$ 154 Nitrobenzene-d5	82	3.901	3.901	(0.882)	620930	5.00000	4.5360
$ 155 2-Fluorobiphenyl	172	5.195	5.195	(0.910)	1054504	5.00000	4.8040
$ 156 Terphenyl-d14	244	7.965	7.965	(0.906)	1229785	5.00000	4.9926
$ 157 Phenol-d5	99	3.219	3.219	(0.915)	588903	5.00000	5.0310
$ 158 2-Fluorophenol	112	2.630	2.630	(0.748)	427781	5.00000	4.9817
$ 159 2,4,6-Tribromophenol	330	6.283	6.283	(1.101)	148777	5.00000	4.8507
$ 186 2-Chlorophenol-d4	132	3.360	3.360	(0.955)	442211	5.00000	4.8394
$ 187 1,2-Dichlorobenzene-d4	152	3.630	3.630	(1.032)	314719	5.00000	4.9759
101 Diphenylamine	169	6.171	6.171	(0.907)	804578	5.00000	4.9322

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4ag2.i
Lab File ID: ICVTCL.D
Lab Smp Id: ICVTCL
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\8270C-625.m
Misc Info:

Calibration Date: 26-FEB-2010
Calibration Time: 19:02
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	274754	137377	549508	160496	-41.59
2 Naphthalene-d8	1069721	534861	2139442	665467	-37.79
3 Acenaphthene-d10	645725	322863	1291450	376956	-41.62
4 Phenanthrene-d10	1102692	551346	2205384	637427	-42.19
5 Chrysene-d12	1314259	657130	2628518	776077	-40.95
6 Perylene-d12	1171416	585708	2342832	687083	-41.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.52	3.02	4.02	3.52	-0.00
2 Naphthalene-d8	4.42	3.92	4.92	4.42	-0.00
3 Acenaphthene-d10	5.71	5.21	6.21	5.71	-0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	-0.00
5 Chrysene-d12	8.80	8.30	9.30	8.80	-0.07
6 Perylene-d12	10.24	9.74	10.74	10.23	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\ICVTCL.D

Page 1

Date : 26-FEB-2010 15:18

Client ID:

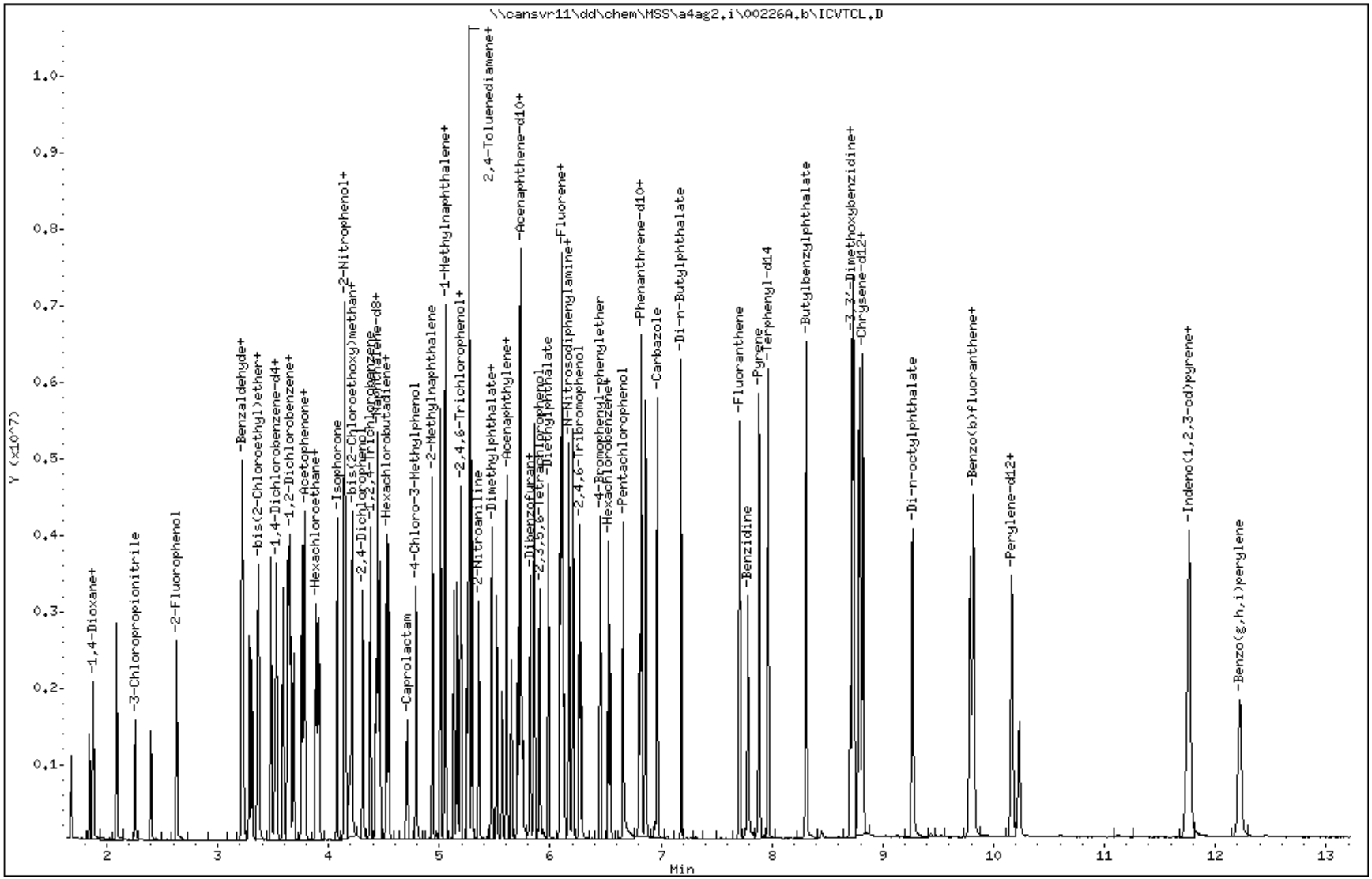
Instrument: a4ag2.i

Sample Info: ICVTCL,00226A.b,8270C-625,3-827042,SUB,2

Operator: 046900

Column phase: db5.625

Column diameter: 0.32



Calibration History

Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Start Cal Date: 26-FEB-2010 12:41
End Cal Date : 26-FEB-2010 20:08
Last Cal Level: 2
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
26-FEB-2010 15:00	PAH	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SLL0226.D
Cal Level: 2 , Cal Amount: 0.25000		
26-FEB-2010 20:08	NMP	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NL0226.D
26-FEB-2010 17:36	2-AP9M	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AL0226.D
26-FEB-2010 14:43	3-827042	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SL0226.D
Cal Level: 3 , Cal Amount: 0.50000		
26-FEB-2010 19:54	NMP	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NML0226.D
26-FEB-2010 17:18	2-AP9M	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AML0226.D
26-FEB-2010 14:26	3-827042	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SML0226.D
Cal Level: 4 , Cal Amount: 1.00000		
26-FEB-2010 19:36	NMP	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NM0226.D
26-FEB-2010 17:01	2-AP9M	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AM0226.D
26-FEB-2010 14:07	3-827042	\\CANSVR11\dd\chem\MSS\a4ag2.i\00226A.b\2SM0226.D
Cal Level: 5 , Cal Amount: 2.50000		
26-FEB-2010 19:19	NMP	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NMM0226.D
26-FEB-2010 16:44	2-AP9M	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AMM0226.D
26-FEB-2010 13:50	3-827042	\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SMM0226.D

Cal Level: 6 , Cal Amount: 5.00000		
26-FEB-2010 19:02	NMP	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NMH0226.D		
26-FEB-2010 16:27	2-AP9M	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AMH0226.D		
26-FEB-2010 13:32	3-827042	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SMH0226.D		

Cal Level: 7 , Cal Amount: 7.50000		
26-FEB-2010 18:45	NMP	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NH0226.D		
26-FEB-2010 16:09	2-AP9M	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AH0226.D		
26-FEB-2010 13:15	3-827042	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SH0226.D		

Cal Level: 8 , Cal Amount: 10.00000		
26-FEB-2010 18:27	NMP	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NHH0226.D		
26-FEB-2010 15:52	2-AP9M	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AHH0226.D		
26-FEB-2010 12:58	3-827042	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SHH0226.D		

Cal Level: 9 , Cal Amount: 12.50000		
26-FEB-2010 18:10	NMP	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2NHHH0226.D		
26-FEB-2010 15:32	2-AP9M	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2AHHH0226.D		
26-FEB-2010 12:41	3-827042	
\\cansvr11\dd\chem\MSS\a4ag2.i\00226A.b\2SHHH0226.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

01-MAR-2010 08:12	NMP	
\\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\2NMH0301.D		
01-MAR-2010 07:55	2-AP9M	
\\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\2AMH0301.D		
01-MAR-2010 07:38	3-827042	
\\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\2SMH0301.D		

TestAmerica North Canton

ok mw 3/2/10

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4ag2.i
Lab File ID: 2SMH0301.D
Analysis Type:
Lab Sample ID: L6
Method: \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m

Injection Date: 01-MAR-2010 07:38
Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Init. Cal. Times: 12:41 20:08
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
198 1,4-Dioxane	0.55254	0.53562	0.53562	0.010	3.06348	50.00000	Averaged
9 Pyridine	1.34308	1.30266	1.30266	0.010	3.00942	50.00000	Averaged
10 N-Nitrosodimethylamine	0.76185	0.77090	0.77090	0.010	-1.18816	50.00000	Averaged
12 3-Chloropropionitrile	0.65739	0.67533	0.67533	0.010	-2.72893	50.00000	Averaged
209 Benzaldehyde	0.94609	0.92627	0.92627	0.010	2.09484	50.00000	Averaged
21 Aniline	1.90516	1.94198	1.94198	0.010	-1.93282	50.00000	Averaged
22 Phenol	1.55315	1.54701	1.54701	0.010	0.39529	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.25585	1.20758	1.20758	0.010	3.84371	50.00000	Averaged
24 2-Chlorophenol	1.23956	1.21913	1.21913	0.010	1.64871	50.00000	Averaged
26 1,3-Dichlorobenzene	1.30442	1.28123	1.28123	0.010	1.77766	50.00000	Averaged
27 1,4-Dichlorobenzene	1.28980	1.26421	1.26421	0.010	1.98442	20.00000	Averaged
28 1,2-Dichlorobenzene	1.24339	1.21616	1.21616	0.010	2.18959	50.00000	Averaged
29 Benzyl Alcohol	0.82437	0.84245	0.84245	0.010	-2.19332	50.00000	Averaged
30 2-Methylphenol	1.13076	1.16373	1.16373	0.010	-2.91532	50.00000	Averaged
31 bis(2-Chloroisopropyl)ether	1.39680	1.45011	1.45011	0.010	-3.81644	50.00000	Averaged
37 Acetophenone	1.70848	1.68371	1.68371	0.010	1.45004	50.00000	Averaged
32 N-Nitroso-di-n-propylamine	1.04605	1.06630	1.06630	0.050	-1.93554	50.00000	Averaged
192 4-Methylphenol	1.19710	1.20039	1.20039	0.010	-0.27470	50.00000	Averaged
34 Hexachloroethane	0.55111	0.54052	0.54052	0.010	1.92172	50.00000	Averaged
35 Nitrobenzene	0.38181	0.38530	0.38530	0.010	-0.91396	50.00000	Averaged
41 Isophorone	0.66801	0.67935	0.67935	0.010	-1.69871	50.00000	Averaged
42 2-Nitrophenol	0.15766	0.16380	0.16380	0.010	-3.89528	20.00000	Averaged
43 2,4-Dimethylphenol	0.33759	0.34170	0.34170	0.010	-1.21680	50.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.34066	0.34069	0.34069	0.010	-0.00753	50.00000	Averaged
46 2,4-Toluenediamene	0.16069	0.16126	0.16126	0.010	-0.34907	50.00000	Averaged
47 1,3,5-Trichlorobenzene	0.27378	0.26479	0.26479	0.010	3.28427	50.00000	Averaged
48 2,4-Dichlorophenol	0.22733	0.23598	0.23598	0.010	-3.80372	20.00000	Averaged
49 Benzoic Acid	10.00000	9.86526	0.20207	0.010	1.34743	0.000e+000	Quadratic
50 1,2,4-Trichlorobenzene	0.26626	0.26707	0.26707	0.010	-0.30501	50.00000	Averaged
51 Naphthalene	0.92166	0.91769	0.91769	0.010	0.43164	50.00000	Averaged
52 4-Chloroaniline	0.37607	0.38036	0.38036	0.010	-1.14161	50.00000	Averaged
56 Hexachlorobutadiene	0.16356	0.15715	0.15715	0.010	3.91874	20.00000	Averaged
210 Caprolactam	5.00000	5.20883	0.10325	0.010	-4.17661	0.000e+000	Quadratic
57 1,2,3-Trichlorobenzene	0.25043	0.24672	0.24672	0.010	1.48101	50.00000	Averaged
59 4-Chloro-3-Methylphenol	0.27356	0.27998	0.27998	0.010	-2.34819	20.00000	Averaged
62 2-Methylnaphthalene	0.51036	0.50911	0.50911	0.010	0.24625	50.00000	Averaged
63 1-Methylnaphthalene	0.58964	0.57907	0.57907	0.010	1.79277	50.00000	Averaged
64 Hexachlorocyclopentadiene	5.00000	4.85525	0.34265	0.050	2.89496	0.000e+000	Quadratic
66 2,4,6-Trichlorophenol	0.30409	0.31451	0.31451	0.010	-3.42603	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.31728	0.33655	0.33655	0.010	-6.07448	50.00000	Averaged
211 1,1'-Biphenyl	1.40878	1.36765	1.36765	0.010	2.91911	50.00000	Averaged
68 1,2,3,5-Tetrachlorobenzene	0.51534	0.51058	0.51058	0.010	0.92303	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4ag2.i
Lab File ID: 2SMH0301.D
Analysis Type:
Lab Sample ID: L6
Method: \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m

Injection Date: 01-MAR-2010 07:38
Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Init. Cal. Times: 12:41 20:08
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
70 2-Chloronaphthalene	0.98079	0.96091	0.96091	0.010	2.02661	50.00000	Averaged
73 2-Nitroaniline	0.35837	0.38045	0.38045	0.010	-6.16372	50.00000	Averaged
74 1,2,3,4-Tetrachlorobenzene	0.48108	0.46039	0.46039	0.010	4.30016	50.00000	Averaged
76 Dimethylphthalate	1.14670	1.12659	1.12659	0.010	1.75306	50.00000	Averaged
78 2,6-Dinitrotoluene	0.25210	0.26359	0.26359	0.010	-4.55580	50.00000	Averaged
79 Acenaphthylene	1.62441	1.63886	1.63886	0.010	-0.88941	50.00000	Averaged
80 1,2-Dinitrobenzene	0.12655	0.13387	0.13387	0.010	-5.78312	50.00000	Averaged
81 3-Nitroaniline	0.27296	0.29286	0.29286	0.010	-7.29241	50.00000	Averaged
82 Acenaphthene	1.06780	1.04706	1.04706	0.010	1.94160	20.00000	Averaged
83 2,4-Dinitrophenol	10.00000	9.97551	0.19082	0.050	0.24489	0.000e+000	Quadratic
85 4-Nitrophenol	5.00000	5.78135	0.24566	0.050	-15.62695	0.000e+000	Quadratic
86 Dibenzofuran	1.43392	1.41024	1.41024	0.010	1.65154	50.00000	Averaged
87 2,4-Dinitrotoluene	0.34464	0.36537	0.36537	0.010	-6.01498	50.00000	Averaged
91 2,3,5,6-Tetrachlorophenol	0.29098	0.28494	0.28494	0.010	2.07497	50.00000	Averaged
93 Diethylphthalate	1.24342	1.21661	1.21661	0.010	2.15589	50.00000	Averaged
94 Fluorene	1.22816	1.21744	1.21744	0.010	0.87332	50.00000	Averaged
95 4-Chlorophenyl-phenylether	0.57181	0.55246	0.55246	0.010	3.38391	50.00000	Averaged
96 4-Nitroaniline	5.00000	5.02549	0.32056	0.010	-0.50972	0.000e+000	Quadratic
98 4,6-Dinitro-2-methylphenol	0.12665	0.12418	0.12418	0.010	1.95264	50.00000	Averaged
99 N-Nitrosodiphenylamine	0.51183	0.50472	0.50472	0.010	1.38833	20.00000	Averaged
100 1,2-Diphenylhydrazine	0.91828	0.92826	0.92826	0.010	-1.08627	50.00000	Averaged
106 4-Bromophenyl-phenylether	0.20001	0.19638	0.19638	0.010	1.81637	50.00000	Averaged
107 Hexachlorobenzene	0.21422	0.20697	0.20697	0.010	3.38244	50.00000	Averaged
212 Atrazine	0.13243	0.13224	0.13224	0.010	0.14382	50.00000	Averaged
111 Pentachlorophenol	10.00000	10.54610	0.15006	0.010	-5.46104	20.00000	Quadratic
115 Phenanthrene	1.05012	1.03172	1.03172	0.010	1.75173	50.00000	Averaged
116 Anthracene	1.04944	1.04915	1.04915	0.010	0.02737	50.00000	Averaged
119 Carbazole	0.98243	0.97796	0.97796	0.010	0.45553	50.00000	Averaged
120 Di-n-Butylphthalate	1.19943	1.27627	1.27627	0.010	-6.40682	50.00000	Averaged
123 Fluoranthene	1.12564	1.12486	1.12486	0.010	0.06891	20.00000	Averaged
124 Benzidine	5.00000	5.09712	0.52897	0.010	-1.94239	0.000e+000	Quadratic
125 Pyrene	0.96916	0.97040	0.97040	0.010	-0.12839	50.00000	Averaged
131 Butylbenzylphthalate	0.44687	0.46329	0.46329	0.010	-3.67478	50.00000	Averaged
133 3,3'-Dimethoxybenzidine	0.20386	0.20758	0.20758	0.010	-1.82790	50.00000	Averaged
135 3,3'-Dichlorobenzidine	0.37599	0.37715	0.37715	0.010	-0.30725	50.00000	Averaged
136 Benzo(a)Anthracene	0.99283	0.96789	0.96789	0.010	2.51211	50.00000	Averaged
137 Chrysene	0.93635	0.89731	0.89731	0.010	4.16880	50.00000	Averaged
138 4,4'-Methylene bis(o-chloro	5.00000	4.94120	0.18691	0.010	1.17608	0.000e+000	Quadratic
139 bis(2-ethylhexyl)Phthalate	0.64306	0.66612	0.66612	0.010	-3.58683	50.00000	Averaged
140 Di-n-octylphthalate	5.00000	5.06031	1.21326	0.010	-1.20612	0.000e+000	Quadratic
141 Benzo(b)fluoranthene	5.00000	4.53758	1.02199	0.010	9.24850	0.000e+000	Quadratic
142 Benzo(k)fluoranthene	1.14744	1.14470	1.14470	0.010	0.23874	50.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4ag2.i
Lab File ID: 2SMH0301.D
Analysis Type:
Lab Sample ID: L6
Method: \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m

Injection Date: 01-MAR-2010 07:38
Init. Cal. Date(s): 26-FEB-2010 26-FEB-2010
Init. Cal. Times: 12:41 20:08
Quant Type: ISTD

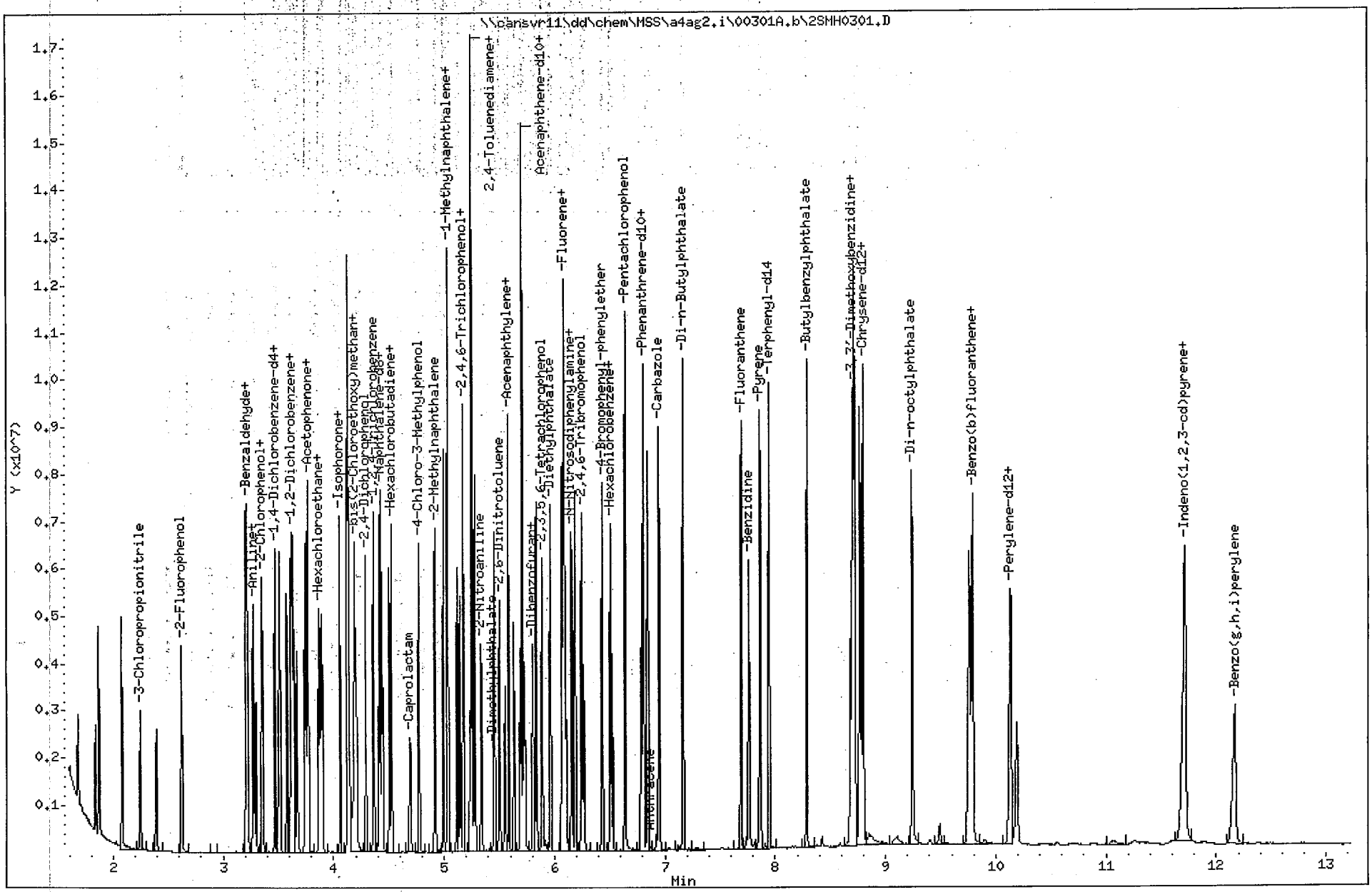
COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
146 Benzo(a)pyrene	1.00449	0.97500	0.97500	0.010	2.93563	20.00000	Averaged
149 Indeno(1,2,3-cd)pyrene	1.12288	1.13518	1.13518	0.010	-1.09519	50.00000	Averaged
150 Dibenz(a,h)anthracene	0.95436	0.96216	0.96216	0.010	-0.81722	50.00000	Averaged
151 Benzo(g,h,i)perylene	0.90124	0.90803	0.90803	0.010	-0.75397	50.00000	Averaged
$ 154 Nitrobenzene-d5	0.41141	0.38716	0.38716	0.010	5.89230	50.00000	Averaged
$ 155 2-Fluorobiphenyl	1.16462	1.15157	1.15157	0.010	1.11998	50.00000	Averaged
$ 156 Terphenyl-d14	0.63478	0.63710	0.63710	0.010	-0.36503	50.00000	Averaged
$ 157 Phenol-d5	1.45865	1.45451	1.45451	0.010	0.28407	50.00000	Averaged
$ 158 2-Fluorophenol	1.07007	1.12086	1.12086	0.010	-4.74664	50.00000	Averaged
$ 159 2,4,6-Tribromophenol	5.00000	4.92976	0.16072	0.010	1.40476	0.000e+000	Quadratic
$ 186 2-Chlorophenol-d4	1.13869	1.13389	1.13389	0.010	0.42193	50.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	0.78816	0.76250	0.76250	0.010	3.25557	50.00000	Averaged
M 195 Cresols, total	2.32787	2.36412	2.36412	0.010	-1.55737	50.00000	Averaged
101 Diphenylamine	0.51183	0.50472	0.50472	0.010	1.38833	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\2SMH0301.D
Date : 01-MAR-2010 07:38
Client ID:
Sample Info: L6,00301A,b,8270C-625,3-827042,SUB;2

Column phase: db5.625

Instrument: a4ag2.i

Operator: 046900
Column diameter: 0.32



North Canton

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Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\2SMH0301.D
Lab Smp Id: L6
Inj Date : 01-MAR-2010 07:38
Operator : 046900 Inst ID: a4ag2.i
Smp Info : L6,00301A.b,8270C-625,3-827042.SUB,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Meth Date : 01-Mar-2010 07:56 hulat Quant Type: ISTD
Cal Date : 26-FEB-2010 20:08 Cal File: 2NL0226.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.504	3.504	(1.000)	274415	2.00000	
* 2	Naphthalene-d8	136	4.410	4.410	(1.000)	1113812	2.00000	
* 3	Acenaphthene-d10	164	5.686	5.686	(1.000)	617736	2.00000	
* 4	Phenanthrene-d10	188	6.786	6.786	(1.000)	1034596	2.00000	
* 5	Chrysene-d12	240	8.774	8.774	(1.000)	1265955	2.00000	
* 6	Perylene-d12	264	10.192	10.192	(1.000)	1179942	2.00000	
198	1,4-Dioxane	88	1.675	1.675	(0.478)	367453	5.00000	4.8468
9	Pyridine	79	1.869	1.869	(0.533)	893672	5.00000	4.8495
10	N-Nitrosodimethylamine	74	1.839	1.839	(0.525)	528868	5.00000	5.0594
12	3-Chloropropionitrile	54	2.245	2.245	(0.641)	463301	5.00000	5.1364
209	Benzaldehyde	77	3.204	3.204	(0.914)	635457	5.00000	4.8952(Q)
21	Aniline	93	3.274	3.274	(0.935)	1332274	5.00000	5.0966
22	Phenol	94	3.222	3.222	(0.919)	1061305	5.00000	4.9802
23	bis(2-Chloroethyl)ether	93	3.298	3.298	(0.941)	828443	5.00000	4.8078
24	2-Chlorophenol	128	3.357	3.357	(0.958)	836367	5.00000	4.9176
26	1,3-Dichlorobenzene	146	3.469	3.469	(0.990)	878972	5.00000	4.9111
27	1,4-Dichlorobenzene	146	3.516	3.516	(1.003)	867293	5.00000	4.9008
28	1,2-Dichlorobenzene	146	3.627	3.627	(1.035)	834334	5.00000	4.8905
29	Benzyl Alcohol	108	3.574	3.574	(1.020)	577953	5.00000	5.1097
30	2-Methylphenol	108	3.639	3.639	(1.039)	798362	5.00000	5.1458
31	bis(2-Chloroisopropyl)ether	45	3.669	3.669	(1.047)	994831	5.00000	5.1908
37	Acetophenone	105	3.769	3.769	(1.076)	1155086	5.00000	4.9275
32	N-Nitroso-di-n-propylamine	70	3.763	3.763	(1.074)	731521	5.00000	5.0968
192	4-Methylphenol	108	3.745	3.745	(1.069)	823513	5.00000	5.0137
34	Hexachloroethane	117	3.869	3.869	(1.104)	370816	5.00000	4.9039
35	Nitrobenzene	77	3.898	3.898	(0.884)	1072871	5.00000	5.0457
41	Isophorone	82	4.063	4.063	(0.921)	1891683	5.00000	5.0849
42	2-Nitrophenol	139	4.127	4.127	(0.936)	456104	5.00000	5.1948
43	2,4-Dimethylphenol	107	4.127	4.127	(0.936)	951481	5.00000	5.0608
44	bis(2-Chloroethoxy)methane	93	4.198	4.198	(0.952)	948648	5.00000	5.0004
46	2,4-Toluenediamene	121	5.233	5.233	(1.187)	449021	5.00000	5.0174
47	1,3,5-Trichlorobenzene	180	4.139	4.139	(0.939)	737313	5.00000	4.8358
48	2,4-Dichlorophenol	162	4.292	4.292	(0.973)	657086	5.00000	5.1902

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
49	Benzoic Acid	122	4.216	4.216	(0.956)	1125360	10.0000	9.8652
50	1,2,4-Trichlorobenzene	180	4.363	4.363	(0.989)	743675	5.00000	5.0152
51	Naphthalene	128	4.427	4.427	(1.004)	2555322	5.00000	4.9784
52	4-Chloroaniline	127	4.445	4.445	(1.008)	1059122	5.00000	5.0571
56	Hexachlorobutadiene	225	4.504	4.504	(1.021)	437599	5.00000	4.8041
210	Caprolactam	113	4.692	4.692	(1.064)	287511	5.00000	5.2088(Q)
57	1,2,3-Trichlorobenzene	180	4.527	4.527	(1.027)	687007	5.00000	4.9259
59	4-Chloro-3-Methylphenol	107	4.774	4.774	(1.083)	779617	5.00000	5.1174
62	2-Methylnaphthalene	142	4.921	4.921	(1.116)	1417620	5.00000	4.9877
63	1-Methylnaphthalene	142	4.992	4.992	(1.132)	1612426	5.00000	4.9104
64	Hexachlorocyclopentadiene	237	5.039	5.039	(0.886)	529164	5.00000	4.8552
66	2,4,6-Trichlorophenol	196	5.116	5.116	(0.900)	485704	5.00000	5.1713
67	2,4,5-Trichlorophenol	196	5.145	5.145	(0.905)	519750	5.00000	5.3037
211	1,1'-Biphenyl	154	5.251	5.251	(0.923)	2112121	5.00000	4.8540(Q)
68	1,2,3,5-Tetrachlorobenzene	216	5.033	5.033	(0.885)	788512	5.00000	4.9538
70	2-Chloronaphthalene	162	5.280	5.280	(0.929)	1483977	5.00000	4.8987
73	2-Nitroaniline	65	5.333	5.333	(0.938)	587551	5.00000	5.3082
74	1,2,3,4-Tetrachlorobenzene	216	5.251	5.251	(0.923)	711000	5.00000	4.7850
76	Dimethylphthalate	163	5.451	5.451	(0.959)	1739844	5.00000	4.9123
78	2,6-Dinitrotoluene	165	5.504	5.504	(0.968)	407073	5.00000	5.2278
79	Acenaphthylene	152	5.586	5.586	(0.982)	2530961	5.00000	5.0445
80	1,2-Dinitrobenzene	168	5.551	5.551	(0.976)	206739	5.00000	5.2892
81	3-Nitroaniline	138	5.633	5.633	(0.991)	452278	5.00000	5.3646
82	Acenaphthene	153	5.710	5.710	(1.004)	1617022	5.00000	4.9029
83	2,4-Dinitrophenol	184	5.710	5.710	(1.004)	589392	10.0000	9.9755
85	4-Nitrophenol	109	5.733	5.733	(1.008)	379376	5.00000	5.7813
86	Dibenzofuran	168	5.839	5.839	(1.027)	2177886	5.00000	4.9174
87	2,4-Dinitrotoluene	165	5.804	5.804	(1.021)	564263	5.00000	5.3007
91	2,3,5,6-Tetrachlorophenol	232	5.886	5.886	(1.035)	440045	5.00000	4.8962
93	Diethylphthalate	149	5.963	5.963	(1.049)	1878860	5.00000	4.8922
94	Fluorene	166	6.092	6.092	(1.071)	1880138	5.00000	4.9563
95	4-Chlorophenyl-phenylether	204	6.068	6.068	(1.067)	853184	5.00000	4.8308
96	4-Nitroaniline	138	6.086	6.086	(1.070)	495061	5.00000	5.0255
98	4,6-Dinitro-2-methylphenol	198	6.104	6.104	(0.899)	321182	5.00000	4.9024
99	N-Nitrosodiphenylamine	169	6.157	6.157	(0.907)	1305466	5.00000	4.9306
100	1,2-Diphenylhydrazine	77	6.186	6.186	(0.912)	2400924	5.00000	5.0543
106	4-Bromophenyl-phenylether	248	6.433	6.433	(0.948)	507922	5.00000	4.9092
107	Hexachlorobenzene	284	6.504	6.504	(0.958)	535332	5.00000	4.8309
212	Atrazine	200	6.527	6.527	(0.962)	342028	5.00000	4.9928(Q)
111	Pentachlorophenol	266	6.639	6.639	(0.978)	776234	10.0000	10.546
115	Phenanthrene	178	6.804	6.804	(1.003)	2668542	5.00000	4.9124
116	Anthracene	178	6.845	6.845	(1.009)	2713623	5.00000	4.9986
119	Carbazole	167	6.945	6.945	(1.023)	2529479	5.00000	4.9772
120	Di-n-Butylphthalate	149	7.162	7.162	(1.055)	3301068	5.00000	5.3203
123	Fluoranthene	202	7.692	7.692	(1.133)	2909442	5.00000	4.9966
124	Benzidine	184	7.762	7.762	(0.885)	1674145	5.00000	5.0971
125	Pyrene	202	7.862	7.862	(0.896)	3071208	5.00000	5.0064
131	Butylbenzylphthalate	149	8.286	8.286	(0.944)	1466261	5.00000	5.1837
133	3,3'-Dimethoxybenzidine	244	8.680	8.680	(0.989)	656983	5.00000	5.0914
135	3,3'-Dichlorobenzidine	252	8.721	8.721	(0.994)	1193636	5.00000	5.0154
136	Benzo(a)Anthracene	228	8.762	8.762	(0.999)	3063264	5.00000	4.8744
137	Chrysene	228	8.798	8.798	(1.003)	2839896	5.00000	4.7916
138	4,4'-Methylene bis(o-chloroan	231	8.715	8.715	(0.993)	591556	5.00000	4.9412
139	bis(2-ethylhexyl)Phthalate	149	8.704	8.704	(0.992)	2108209	5.00000	5.1793(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140	Di-n-octylphthalate	149	9.239	9.239	(0.907)	3578953	5.00000	5.0603
141	Benzo(b)fluoranthene	252	9.756	9.756	(0.957)	3014711	5.00000	4.5376
142	Benzo(k)fluoranthene	252	9.786	9.786	(0.960)	3376688	5.00000	4.9881
146	Benzo(a)pyrene	252	10.133	10.133	(0.994)	2876107	5.00000	4.8532
149	Indeno(1,2,3-cd)pyrene	276	11.709	11.709	(1.149)	3348618	5.00000	5.0548
150	Dibenz(a,h)anthracene	278	11.715	11.715	(1.149)	2838242	5.00000	5.0409
151	Benzo(g,h,i)perylene	276	12.162	12.162	(1.193)	2678570	5.00000	5.0377
$ 154	Nitrobenzene-d5	82	3.886	3.886	(0.881)	1078071	5.00000	4.7054
$ 155	2-Fluorobiphenyl	172	5.174	5.174	(0.910)	1778420	5.00000	4.9440
$ 156	Terphenyl-d14	244	7.945	7.945	(0.905)	2016340	5.00000	5.0182
$ 157	Phenol-d5	99	3.210	3.210	(0.916)	997848	5.00000	4.9858
$ 158	2-Fluorophenol	112	2.622	2.622	(0.748)	768951	5.00000	5.2373
$ 159	2,4,6-Tribromophenol	330	6.268	6.268	(1.102)	248200	5.00000	4.9298
$ 186	2-Chlorophenol-d4	132	3.345	3.345	(0.955)	777889	5.00000	4.9789
$ 187	1,2-Dichlorobenzene-d4	152	3.616	3.616	(1.032)	523103	5.00000	4.8372
M 195	Cresols, total	100				1621875	5.00000	10.160
101	Diphenylamine	169	6.157	6.157	(0.907)	1305466	5.00000	4.9306

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

RECOVERY REPORT

OKme 3/2/10

Client Name: Client SDG: SDGa00195
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: QCMRL
Level: LOW Operator: 046900
Data Type: MS DATA SampleType: mrl
SpikeList File: qcmrl.spk Quant Type: ISTD
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82	Acenaphthene	10.000	9.8514	98.51	70-130
79	Acenaphthylene	10.000	10.292	102.92	70-130
116	Anthracene	10.000	10.120	101.20	70-130
136	Benzo(a)Anthracene	10.000	9.8185	98.18	70-130
141	Benzo(b)fluoranthe	10.000	9.2735	92.74	70-130
151	Benzo(g,h,i)peryle	10.000	9.9149	99.15	70-130
146	Benzo(a)pyrene	10.000	9.6779	96.78	70-130
29	Benzyl Alcohol	10.000	10.342	103.42	70-130
44	bis(2-Chloroethoxy	10.000	10.652	106.52	70-130
23	bis(2-Chloroethyl)	10.000	10.131	101.31	70-130
31	bis(2-Chloroisopro	10.000	10.341	103.41	70-130
139	bis(2-ethylhexyl)P	10.000	10.412	104.12	70-130
106	4-Bromophenyl-phen	10.000	9.5720	95.72	70-130
131	Butylbenzylphthala	10.000	10.617	106.17	70-130
52	4-Chloroaniline	10.000	10.740	107.41	70-130
70	2-Chloronaphthalen	10.000	9.9983	99.98	70-130
95	4-Chlorophenyl-phe	10.000	9.9725	99.72	70-130
137	Chrysene	10.000	9.7682	97.68	70-130
150	Dibenz(a,h)anthrac	10.000	9.8857	98.86	70-130
86	Dibenzofuran	10.000	10.124	101.24	70-130
120	Di-n-Butylphthalat	10.000	10.429	104.29	70-130
28	1,2-Dichlorobenzen	10.000	9.7775	97.77	70-130
26	1,3-Dichlorobenzen	10.000	9.8411	98.41	70-130
27	1,4-Dichlorobenzen	10.000	9.7396	97.40	70-130
135	3,3'-Dichlorobenzi	10.000	9.8968	98.97	70-130
93	Diethylphthalate	10.000	10.018	100.18	70-130
76	Dimethylphthalate	10.000	10.256	102.56	70-130
87	2,4-Dinitrotoluene	10.000	10.572	105.72	70-130
78	2,6-Dinitrotoluene	10.000	10.234	102.34	70-130
140	Di-n-octylphthalat	10.000	10.276	102.76	70-130
123	Fluoranthene	10.000	9.8711	98.71	70-130
94	Fluorene	10.000	9.7900	97.90	70-130
107	Hexachlorobenzene	10.000	9.6974	96.97	70-130
56	Hexachlorobutadien	10.000	9.7261	97.26	70-130
64	Hexachlorocyclopen	10.000	9.5700	95.70	70-130
34	Hexachloroethane	10.000	9.6914	96.91	70-130
149	Indeno(1,2,3-cd)py	10.000	9.8980	98.98	70-130
41	Isophorone	10.000	10.289	102.89	70-130
63	1-Methylnaphthalen	10.000	9.9312	99.31	70-130
62	2-Methylnaphthalen	10.000	10.050	100.50	70-130

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51	Naphthalene	10.000	9.9022	99.02	70-130
73	2-Nitroaniline	10.000	10.522	105.22	70-130
81	3-Nitroaniline	10.000	10.553	105.53	70-130
96	4-Nitroaniline	10.000	10.227	102.27	70-130
35	Nitrobenzene	10.000	10.116	101.17	70-130
32	N-Nitroso-di-n-pro	10.000	10.164	101.64	70-130
99	N-Nitrosodiphenyla	10.000	10.193	101.93	70-130
115	Phenanthrene	10.000	9.9119	99.12	70-130
125	Pyrene	10.000	10.117	101.17	70-130
50	1,2,4-Trichloroben	10.000	9.9499	99.50	70-130
49	Benzoic Acid	20.000	20.376	101.88	70-130
59	4-Chloro-3-Methylp	10.000	10.344	103.44	70-130
24	2-Chlorophenol	10.000	10.123	101.23	70-130
48	2,4-Dichlorophenol	10.000	10.391	103.91	70-130
43	2,4-Dimethylphenol	10.000	10.042	100.42	70-130
98	4,6-Dinitro-2-meth	10.000	9.3244	93.24	70-130
83	2,4-Dinitrophenol	20.000	18.530	92.65	70-130
30	2-Methylphenol	10.000	10.225	102.25	70-130
192	4-Methylphenol	10.000	10.102	101.02	70-130
42	2-Nitrophenol	10.000	10.107	101.07	70-130
85	4-Nitrophenol	10.000	11.807	118.07	70-130
111	Pentachlorophenol	20.000	20.766	103.83	70-130
22	Phenol	10.000	10.277	102.77	70-130
67	2,4,5-Trichlorophe	10.000	10.386	103.86	70-130
66	2,4,6-Trichlorophe	10.000	10.651	106.51	70-130
119	Carbazole	10.000	10.086	100.86	70-130
142	Benzo(k)fluoranthe	10.000	10.273	102.73	70-130
37	Acetophenone	10.000	10.255	102.55	70-130
209	Benzaldehyde	10.000	10.603	106.03	70-130
210	Caprolactam	10.000	10.747	107.47	70-130
211	1,1'-Biphenyl	10.000	9.5562	95.56	70-130
212	Atrazine	10.000	10.386	103.86	70-130

Data File: \\cansvr1\dd\chem\MSS\a4ag2,i\003014,b\QCMRL,D
Date : 01-MAR-2010 08:29
Client ID:
Sample Info: QCMRL,003014,b,827QC-625,3-827042,SUB
Volume Injected (uL): 0,5
Column phase: db5,625
Instrument: a4ag2,i
Operator: 046900
Column diameter: 0,32
\\cansvr1\dd\chem\MSS\a4ag2,i\003014,b\QCMRL,D
Y (x10^6)
Min
-N-Nitrosodimethylamine+
-3-Chloropropionitrile
-2-Fluorophenol
-Benzaldehyde+
-bis(2-Chloroethyl)ether+
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Naphthalene-d8+
-Hexachlorobutadiene+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-Dimethylphthalate
2,4-Toluenediamene+
-2,6-Dinitrotoluene+
-Acenaphthene-d10+
-Dibenzofuran+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
-Phenanthrene-d10+
-Carbazole
-Di-n-Butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
-Chrysene-d12+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\QCMRL.D
Lab Smp Id: QCMRL
Inj Date : 01-MAR-2010 08:29
Operator : 046900 Inst ID: a4ag2.i
Smp Info : QCMRL,00301A.b,8270C-625,3-827042.SUB
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Meth Date : 01-Mar-2010 08:27 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:08 Cal File: 2NL0226.D
Als bottle: 5 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV04

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.498	3.504	(1.000)	257732	2.00000	
* 2	Naphthalene-d8	136	4.404	4.410	(1.000)	1042706	2.00000	
* 3	Acenaphthene-d10	164	5.686	5.686	(1.000)	571224	2.00000	
* 4	Phenanthrene-d10	188	6.780	6.786	(1.000)	952856	2.00000	
* 5	Chrysene-d12	240	8.762	8.774	(1.000)	1150883	2.00000	
* 6	Perylene-d12	264	10.174	10.192	(1.000)	1075286	2.00000	
198	1,4-Dioxane	88	1.669	1.675	(0.477)	153968	2.16235	8.6494(QM)
9	Pyridine	79	1.869	1.869	(0.534)	414338	2.39395	9.5758(QM)
10	N-Nitrosodimethylamine	74	1.833	1.839	(0.524)	236649	2.41044	9.6418
12	3-Chloropropionitrile	54	2.239	2.245	(0.640)	217192	2.56379	10.255
209	Benzaldehyde	77	3.204	3.204	(0.916)	323191	2.65087	10.603(Q)
21	Aniline	93	3.269	3.274	(0.934)	622195	2.53429	10.137
22	Phenol	94	3.216	3.222	(0.919)	514244	2.56932	10.277
23	bis(2-Chloroethyl)ether	93	3.292	3.298	(0.941)	409907	2.53285	10.131
24	2-Chlorophenol	128	3.357	3.357	(0.960)	404270	2.53084	10.123
26	1,3-Dichlorobenzene	146	3.469	3.469	(0.992)	413560	2.46027	9.8411
27	1,4-Dichlorobenzene	146	3.510	3.516	(1.003)	404707	2.43489	9.7396
28	1,2-Dichlorobenzene	146	3.622	3.627	(1.035)	391662	2.44437	9.7775
29	Benzyl Alcohol	108	3.574	3.574	(1.022)	274676	2.58559	10.342
30	2-Methylphenol	108	3.639	3.639	(1.040)	372500	2.55632	10.225

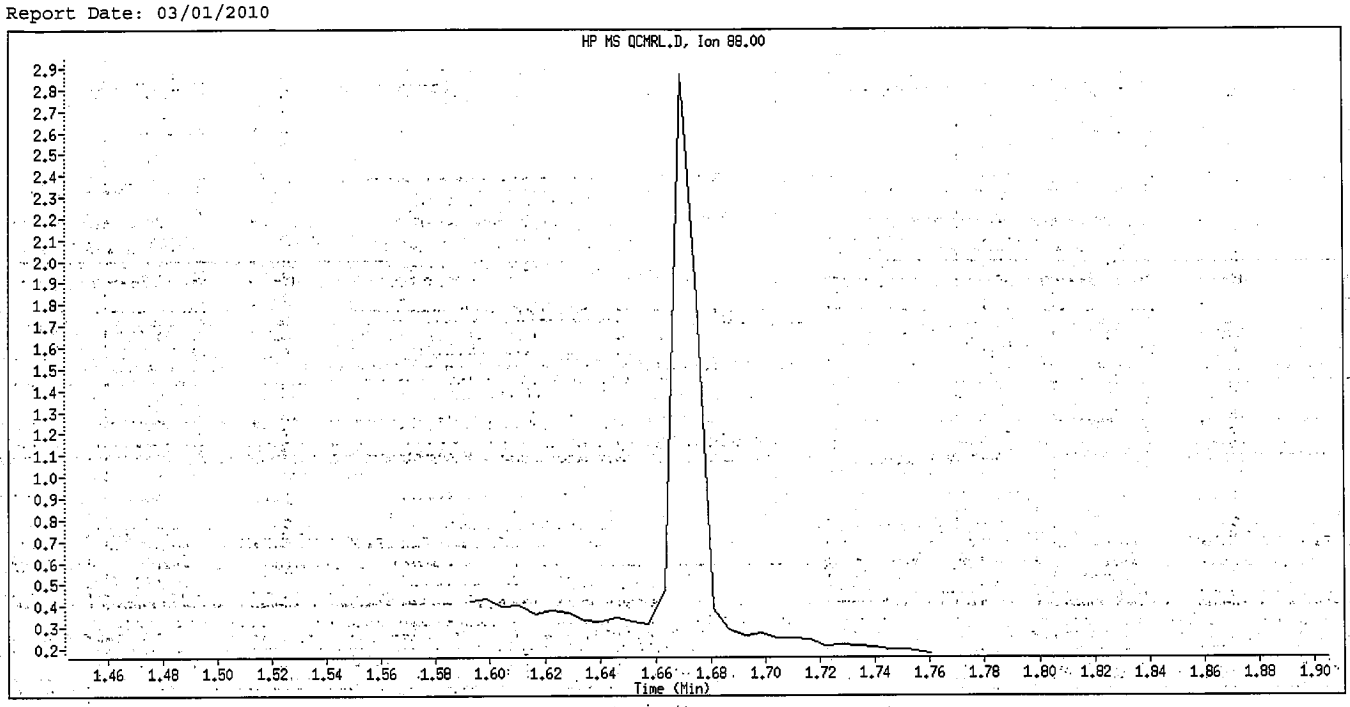
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
31	bis(2-Chloroisopropyl)ether	45	3.663	3.669	(1.047)	465367	2.58537	10.341
37	Acetophenone	105	3.769	3.769	(1.077)	564437	2.56370	10.255
32	N-Nitroso-di-n-propylamine	70	3.757	3.763	(1.074)	342544	2.54112	10.164
192	4-Methylphenol	108	3.739	3.745	(1.069)	389610	2.52558	10.102
34	Hexachloroethane	117	3.869	3.869	(1.106)	172070	2.42286	9.6914
35	Nitrobenzene	77	3.898	3.898	(0.885)	503442	2.52914	10.116
41	Isophorone	82	4.057	4.063	(0.921)	895836	2.57226	10.289
42	2-Nitrophenol	139	4.121	4.127	(0.936)	207687	2.52674	10.107
43	2,4-Dimethylphenol	107	4.127	4.127	(0.937)	441860	2.51048	10.042
44	bis(2-Chloroethoxy)methane	93	4.192	4.198	(0.952)	472944	2.66292	10.652
46	2,4-Toluenediamene	121	5.227	5.233	(1.187)	176367	2.10515	8.4206
47	1,3,5-Trichlorobenzene	180	4.139	4.139	(0.940)	344081	2.41060	9.6424
48	2,4-Dichlorophenol	162	4.292	4.292	(0.975)	307889	2.59780	10.391
49	Benzoic Acid	122	4.186	4.216	(0.951)	488066	5.09390	20.376
50	1,2,4-Trichlorobenzene	180	4.363	4.363	(0.991)	345301	2.48747	9.9499
51	Naphthalene	128	4.421	4.427	(1.004)	1189537	2.47556	9.9022
52	4-Chloroaniline	127	4.439	4.445	(1.008)	526456	2.68513	10.740
56	Hexachlorobutadiene	225	4.504	4.504	(1.023)	207346	2.43152	9.7261
210	Caprolactam	113	4.680	4.692	(1.063)	132665	2.68679	10.747(Q)
57	1,2,3-Trichlorobenzene	180	4.521	4.527	(1.027)	327360	2.50729	10.029
59	4-Chloro-3-Methylphenol	107	4.769	4.774	(1.083)	368815	2.58599	10.344
62	2-Methylnaphthalene	142	4.916	4.921	(1.116)	668546	2.51258	10.050
63	1-Methylnaphthalene	142	4.992	4.992	(1.134)	763235	2.48280	9.9312
64	Hexachlorocyclopentadiene	237	5.033	5.039	(0.885)	225548	2.39250	9.5700
66	2,4,6-Trichlorophenol	196	5.110	5.116	(0.899)	231255	2.66266	10.651
67	2,4,5-Trichlorophenol	196	5.139	5.145	(0.904)	235281	2.59639	10.386
211	1,1'-Biphenyl	154	5.251	5.251	(0.923)	961263	2.38904	9.5562(Q)
68	1,2,3,5-Tetrachlorobenzene	216	5.027	5.033	(0.884)	352595	2.39556	9.5822
70	2-Chloronaphthalene	162	5.274	5.280	(0.928)	700198	2.49959	9.9983
73	2-Nitroaniline	65	5.333	5.333	(0.938)	269236	2.63045	10.522
74	1,2,3,4-Tetrachlorobenzene	216	5.251	5.251	(0.923)	320229	2.33061	9.3224
76	Dimethylphthalate	163	5.445	5.451	(0.958)	839742	2.56402	10.256
78	2,6-Dinitrotoluene	165	5.498	5.504	(0.967)	184231	2.55862	10.234
79	Acenaphthylene	152	5.580	5.586	(0.981)	1193806	2.57312	10.292
80	1,2-Dinitrobenzene	168	5.545	5.551	(0.975)	92693	2.56453	10.258
81	3-Nitroaniline	138	5.627	5.633	(0.990)	205681	2.63830	10.553
82	Acenaphthene	153	5.710	5.710	(1.004)	751107	2.46285	9.8514
83	2,4-Dinitrophenol	184	5.704	5.710	(1.003)	217111	4.63250	18.530(Q)
85	4-Nitrophenol	109	5.727	5.733	(1.007)	164203	2.95175	11.807
86	Dibenzofuran	168	5.833	5.839	(1.026)	1036546	2.53097	10.124
87	2,4-Dinitrotoluene	165	5.798	5.804	(1.020)	260172	2.64309	10.572
91	2,3,5,6-Tetrachlorophenol	232	5.880	5.886	(1.034)	206064	2.47951	9.9180
93	Diethylphthalate	149	5.957	5.963	(1.048)	889426	2.50447	10.018
94	Fluorene	166	6.086	6.092	(1.070)	858527	2.44749	9.7900
95	4-Chlorophenyl-phenylether	204	6.068	6.068	(1.067)	407165	2.49312	9.9725
96	4-Nitroaniline	138	6.080	6.086	(1.069)	221599	2.55665	10.227
98	4,6-Dinitro-2-methylphenol	198	6.098	6.104	(0.899)	140657	2.33109	9.3244
99	N-Nitrosodiphenylamine	169	6.151	6.157	(0.907)	621409	2.54832	10.193
100	1,2-Diphenylhydrazine	77	6.186	6.186	(0.912)	1106590	2.52938	10.118
106	4-Bromophenyl-phenylether	248	6.427	6.433	(0.948)	228027	2.39300	9.5720
107	Hexachlorobenzene	284	6.498	6.504	(0.958)	247428	2.42435	9.6974
212	Atrazine	200	6.521	6.527	(0.962)	163823	2.59658	10.386(Q)
111	Pentachlorophenol	266	6.633	6.639	(0.978)	324465	5.19142	20.766
115	Phenanthrene	178	6.798	6.804	(1.003)	1239743	2.47797	9.9119

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
116 Anthracene	178	6.839	6.845	(1.009)	1264960	2.53001	10.120
119 Carbazole	167	6.939	6.945	(1.023)	1180265	2.52162	10.086
120 Di-n-Butylphthalate	149	7.157	7.162	(1.056)	1489916	2.60730	10.429
123 Fluoranthene	202	7.680	7.692	(1.133)	1323436	2.46779	9.8711
124 Benzidine	184	7.751	7.762	(0.885)	675712	2.40789	9.6316
125 Pyrene	202	7.857	7.862	(0.897)	1410606	2.52936	10.117
131 Butylbenzylphthalate	149	8.274	8.286	(0.944)	682516	2.65419	10.617
133 3,3'-Dimethoxybenzidine	244	8.668	8.680	(0.989)	279127	2.37942	9.5177
135 3,3'-Dichlorobenzidine	252	8.709	8.721	(0.994)	535324	2.47420	9.8968
136 Benzo(a)Anthracene	228	8.751	8.762	(0.999)	1402363	2.45462	9.8185
137 Chrysene	228	8.786	8.798	(1.003)	1315803	2.44204	9.7682
138 4,4'-Methylene bis(o-chloroan	231	8.698	8.715	(0.993)	257836	2.52335	10.093
139 bis(2-ethylhexyl)Phthalate	149	8.692	8.704	(0.992)	963218	2.60299	10.412(Q)
140 Di-n-octylphthalate	149	9.227	9.239	(0.907)	1554166	2.56907	10.276
141 Benzo(b)fluoranthene	252	9.739	9.756	(0.957)	1330445	2.31839	9.2735
142 Benzo(k)fluoranthene	252	9.768	9.786	(0.960)	1584375	2.56824	10.273
146 Benzo(a)pyrene	252	10.109	10.133	(0.994)	1306655	2.41948	9.6779
149 Indeno(1,2,3-cd)pyrene	276	11.674	11.709	(1.147)	1493886	2.47451	9.8980
150 Dibenz(a,h)anthracene	278	11.680	11.715	(1.148)	1268107	2.47143	9.8857
151 Benzo(g,h,i)perylene	276	12.133	12.162	(1.193)	1201054	2.47873	9.9149
101 Diphenylamine	169	6.151	6.157	(0.907)	621409	2.54832	10.193

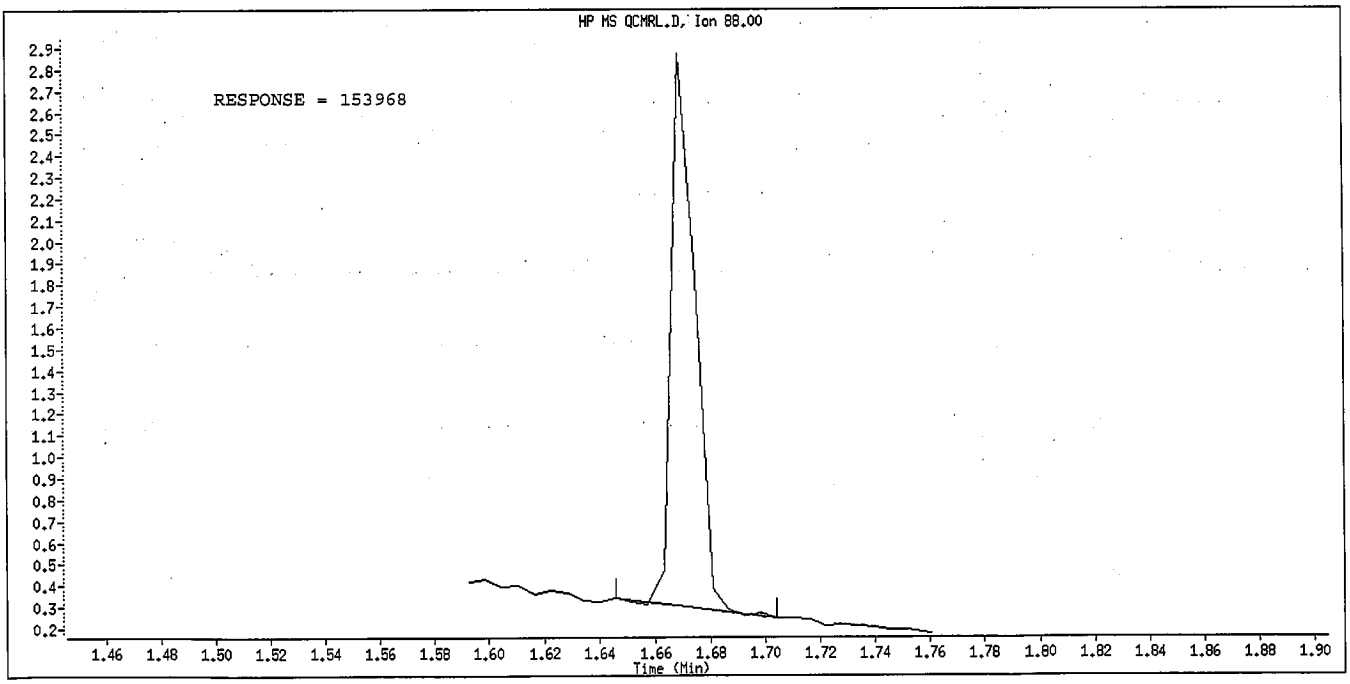
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File Name: QCMRL.D
Inj. Date and Time: 01-MAR-2010 08:29
Instrument ID: a4ag2.i
Client ID:
Compound Name: 1,4-Dioxane
CAS #: 123-91-1
Report Date: 03/01/2010



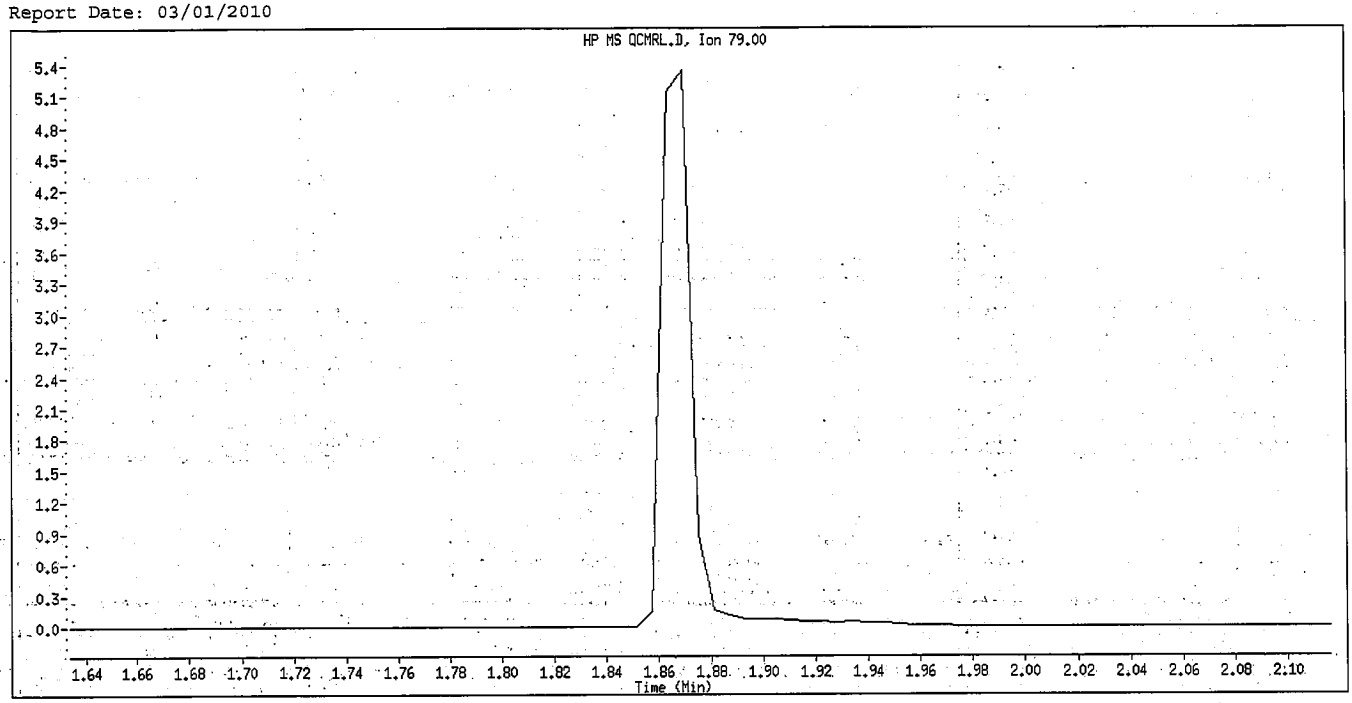
Original Integration



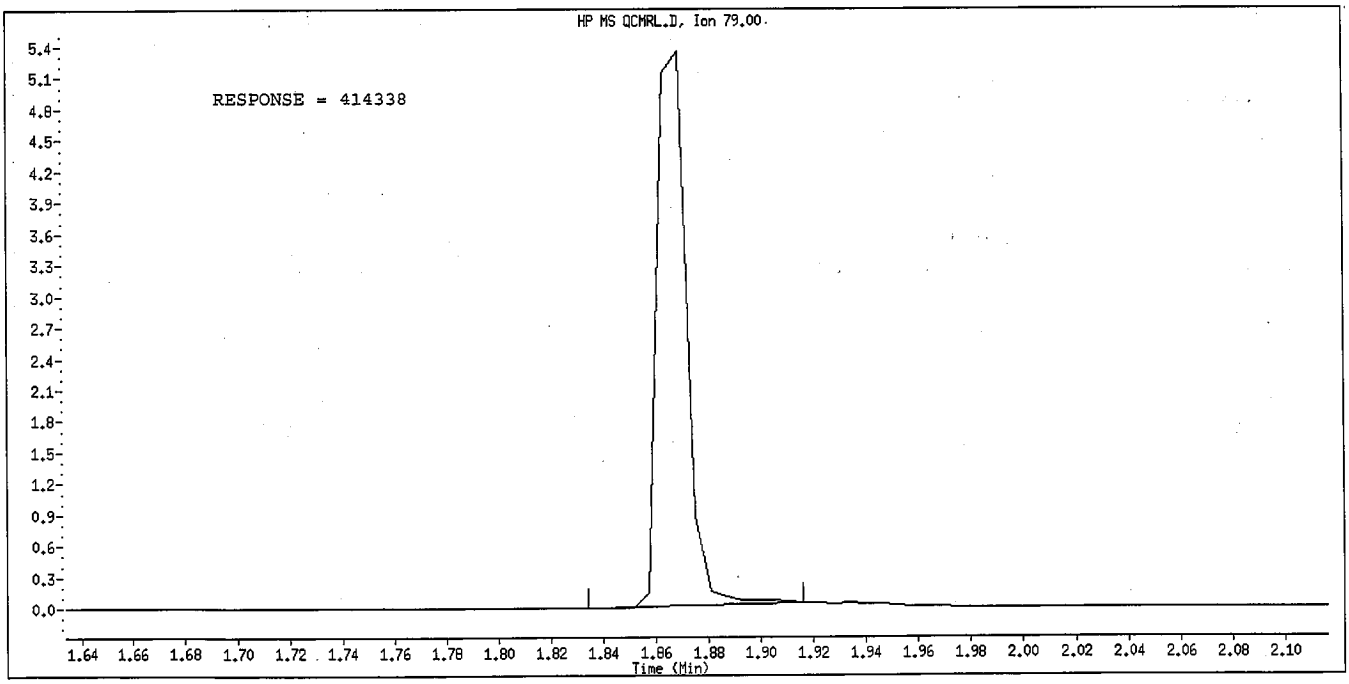
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: QCMRL.D
Inj. Date and Time: 01-MAR-2010 08:29
Instrument ID: a4ag2.i
Client ID:
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 03/01/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

TestAmerica North Canton

RECOVERY REPORT

OKMW 3/2/10

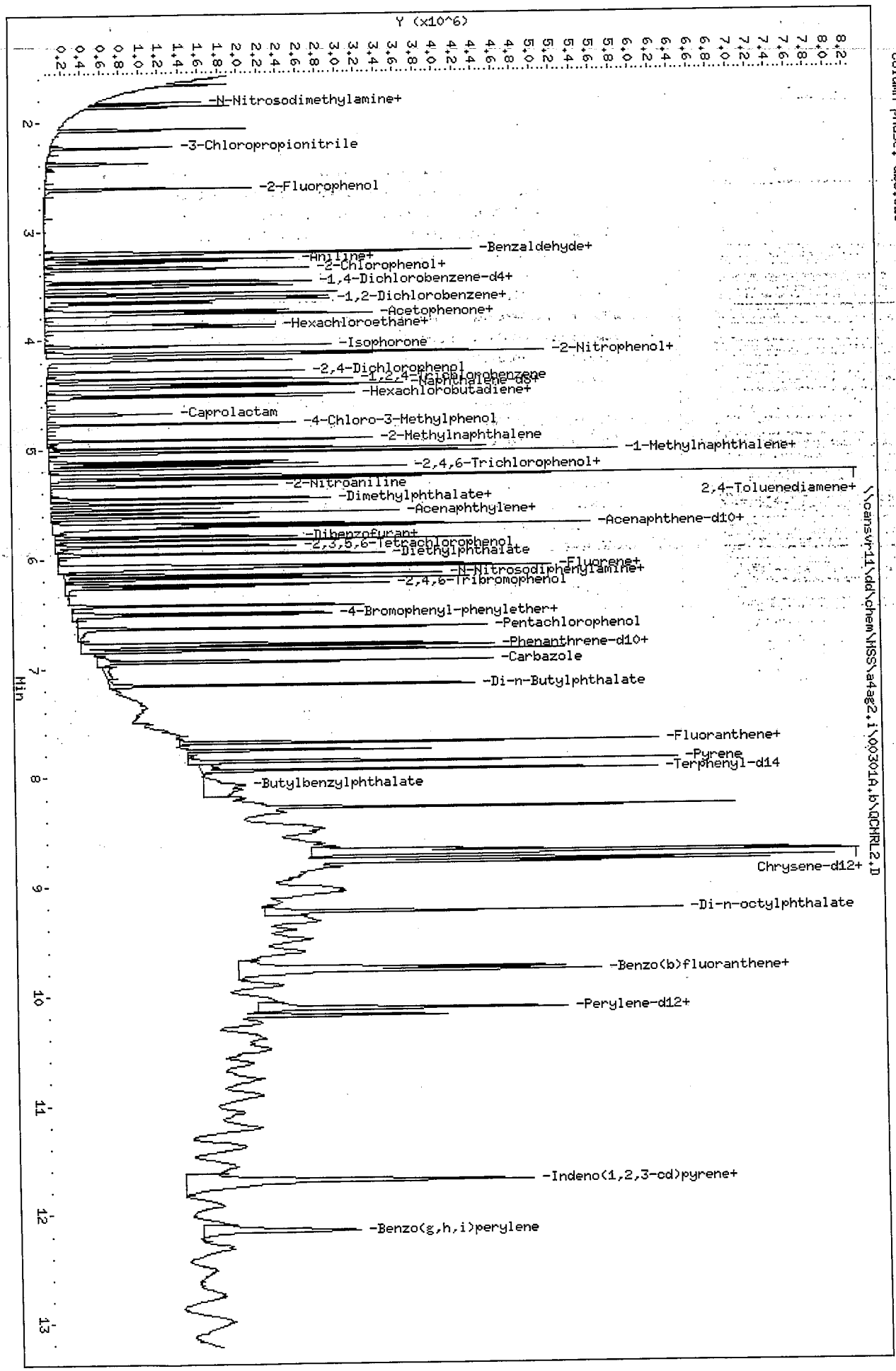
Client Name:
Sample Matrix: LIQUID
Lab Smp Id: QCMRL2
Level: LOW
Data Type: MS DATA
SpikeList File: qcmrl.spk
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Misc Info:

Client SDG: SDGa00195
Fraction: SV

Operator: 046900
SampleType: mrl
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82 Acenaphthene	10.000	9.8102	98.10	70-130
79 Acenaphthylene	10.000	10.300	103.00	70-130
116 Anthracene	10.000	10.078	100.78	70-130
136 Benzo(a)Anthracene	10.000	9.8092	98.09	70-130
141 Benzo(b)fluoranthe	10.000	9.8909	98.91	70-130
151 Benzo(g,h,i)peryle	10.000	10.360	103.60	70-130
146 Benzo(a)pyrene	10.000	10.044	100.44	70-130
29 Benzyl Alcohol	10.000	10.216	102.16	70-130
44 bis(2-Chloroethoxy	10.000	10.240	102.40	70-130
23 bis(2-Chloroethyl)	10.000	10.159	101.59	70-130
31 bis(2-Chloroisopro	10.000	10.436	104.36	70-130
139 bis(2-ethylhexyl)P	10.000	10.361	103.61	70-130
106 4-Bromophenyl-phen	10.000	9.9553	99.55	70-130
131 Butylbenzylphthala	10.000	10.358	103.58	70-130
52 4-Chloroaniline	10.000	9.7364	97.36	70-130
70 2-Chloronaphthalen	10.000	10.118	101.18	70-130
95 4-Chlorophenyl-phe	10.000	10.148	101.48	70-130
137 Chrysene	10.000	9.7109	97.11	70-130
150 Dibenz(a,h)anthrac	10.000	10.108	101.08	70-130
86 Dibenzofuran	10.000	10.124	101.24	70-130
120 Di-n-Butylphthalat	10.000	10.468	104.68	70-130
28 1,2-Dichlorobenzen	10.000	10.103	101.03	70-130
26 1,3-Dichlorobenzen	10.000	9.9220	99.22	70-130
27 1,4-Dichlorobenzen	10.000	10.085	100.85	70-130
135 3,3'-Dichlorobenzi	10.000	9.8352	98.35	70-130
93 Diethylphthalate	10.000	10.102	101.03	70-130
76 Dimethylphthalate	10.000	10.053	100.53	70-130
87 2,4-Dinitrotoluene	10.000	10.689	106.89	70-130
78 2,6-Dinitrotoluene	10.000	10.439	104.39	70-130
140 Di-n-octylphthalat	10.000	10.987	109.87	70-130
123 Fluoranthene	10.000	9.8712	98.71	70-130
94 Fluorene	10.000	9.8048	98.05	70-130
107 Hexachlorobenzene	10.000	9.4648	94.65	70-130
56 Hexachlorobutadien	10.000	9.7859	97.86	70-130
64 Hexachlorocyclopen	10.000	9.5764	95.76	70-130
34 Hexachloroethane	10.000	9.9679	99.68	70-130
149 Indeno(1,2,3-cd)py	10.000	10.379	103.79	70-130
41 Isophorone	10.000	10.260	102.60	70-130
63 1-Methylnaphthalen	10.000	9.9300	99.30	70-130
62 2-Methylnaphthalen	10.000	10.017	100.17	70-130

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51 Naphthalene	10.000	9.7857	97.86	70-130
73 2-Nitroaniline	10.000	10.456	104.56	70-130
81 3-Nitroaniline	10.000	10.522	105.22	70-130
96 4-Nitroaniline	10.000	10.652	106.52	70-130
35 Nitrobenzene	10.000	9.8901	98.90	70-130
32 N-Nitroso-di-n-pro	10.000	10.239	102.39	70-130
99 N-Nitrosodiphenyla	10.000	10.334	103.34	70-130
115 Phenanthrene	10.000	9.7967	97.97	70-130
125 Pyrene	10.000	10.160	101.60	70-130
50 1,2,4-Trichloroben	10.000	10.046	100.46	70-130
49 Benzoic Acid	20.000	19.585	97.93	70-130
59 4-Chloro-3-Methylp	10.000	10.272	102.72	70-130
24 2-Chlorophenol	10.000	10.063	100.63	70-130
48 2,4-Dichlorophenol	10.000	10.191	101.91	70-130
43 2,4-Dimethylphenol	10.000	9.7258	97.26	70-130
98 4,6-Dinitro-2-meth	10.000	9.4897	94.90	70-130
83 2,4-Dinitrophenol	20.000	19.253	96.27	70-130
30 2-Methylphenol	10.000	10.292	102.92	70-130
192 4-Methylphenol	10.000	10.300	103.01	70-130
42 2-Nitrophenol	10.000	9.9769	99.77	70-130
85 4-Nitrophenol	10.000	10.611	106.11	70-130
111 Pentachlorophenol	20.000	21.505	107.53	70-130
22 Phenol	10.000	10.136	101.36	70-130
67 2,4,5-Trichlorophe	10.000	10.649	106.49	70-130
66 2,4,6-Trichlorophe	10.000	10.554	105.55	70-130
119 Carbazole	10.000	9.9831	99.83	70-130
142 Benzo(k)fluoranthe	10.000	9.8571	98.57	70-130
37 Acetophenone	10.000	10.428	104.28	70-130
209 Benzaldehyde	10.000	10.498	104.98	70-130
210 Caprolactam	10.000	10.713	107.13	70-130
211 1,1'-Biphenyl	10.000	9.6147	96.15	70-130
212 Atrazine	10.000	10.934	109.34	70-130



Data File: \\canswr11\dd\chem\HSS\a4ag2.i\00301A.b\QCHRL2.D
Date : 01-MAR-2010 09:38
Client ID:
Sample Info: QCHRL2,00301A,b,8270C-625,3-827042,SUB
Volume Injected (uL): 0.5
Column phase: db5.625

Instrument: a4ag2.i
Operator: 046900
Column diameter: 0.32

Page 1

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\QCMRL2.D
Lab Smp Id: QCMRL2
Inj Date : 01-MAR-2010 09:38
Operator : 046900 Inst ID: a4ag2.i
Smp Info : QCMRL2,00301A.b,8270C-625,3-827042.SUB
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Meth Date : 01-Mar-2010 08:27 a4ag2.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:08 Cal File: 2NL0226.D
Als bottle: 5 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV04

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.504	3.504	(1.000)	246556	2.00000	
* 2 Naphthalene-d8	136	4.410	4.410	(1.000)	1030925	2.00000	
* 3 Acenaphthene-d10	164	5.686	5.686	(1.000)	566633	2.00000	
* 4 Phenanthrene-d10	188	6.786	6.786	(1.000)	954276	2.00000	
* 5 Chrysene-d12	240	8.768	8.774	(1.000)	1150400	2.00000	
* 6 Perylene-d12	264	10.186	10.192	(1.000)	1066602	2.00000	
198 1,4-Dioxane	88	1.669	1.675	(0.476)	135018	1.98216	7.9286(QM)
9 Pyridine	79	1.869	1.869	(0.533)	385107	2.32592	9.3037(QM)
10 N-Nitrosodimethylamine	74	1.833	1.839	(0.523)	225686	2.40298	9.6119
12 3-Chloropropionitrile	54	2.239	2.245	(0.639)	203046	2.50545	10.022
209 Benzaldehyde	77	3.204	3.204	(0.914)	306111	2.62458	10.498(Q)
21 Aniline	93	3.269	3.274	(0.933)	579945	2.46928	9.8771
22 Phenol	94	3.216	3.222	(0.918)	485161	2.53389	10.136
23 bis(2-Chloroethyl)ether	93	3.292	3.298	(0.940)	393218	2.53987	10.159
24 2-Chlorophenol	128	3.357	3.357	(0.958)	384439	2.51578	10.063
26 1,3-Dichlorobenzene	146	3.469	3.469	(0.990)	398879	2.48050	9.9220
27 1,4-Dichlorobenzene	146	3.516	3.516	(1.003)	400888	2.52124	10.085
28 1,2-Dichlorobenzene	146	3.627	3.627	(1.035)	387160	2.52579	10.103
29 Benzyl Alcohol	108	3.574	3.574	(1.020)	259566	2.55411	10.216
30 2-Methylphenol	108	3.639	3.639	(1.039)	358682	2.57307	10.292

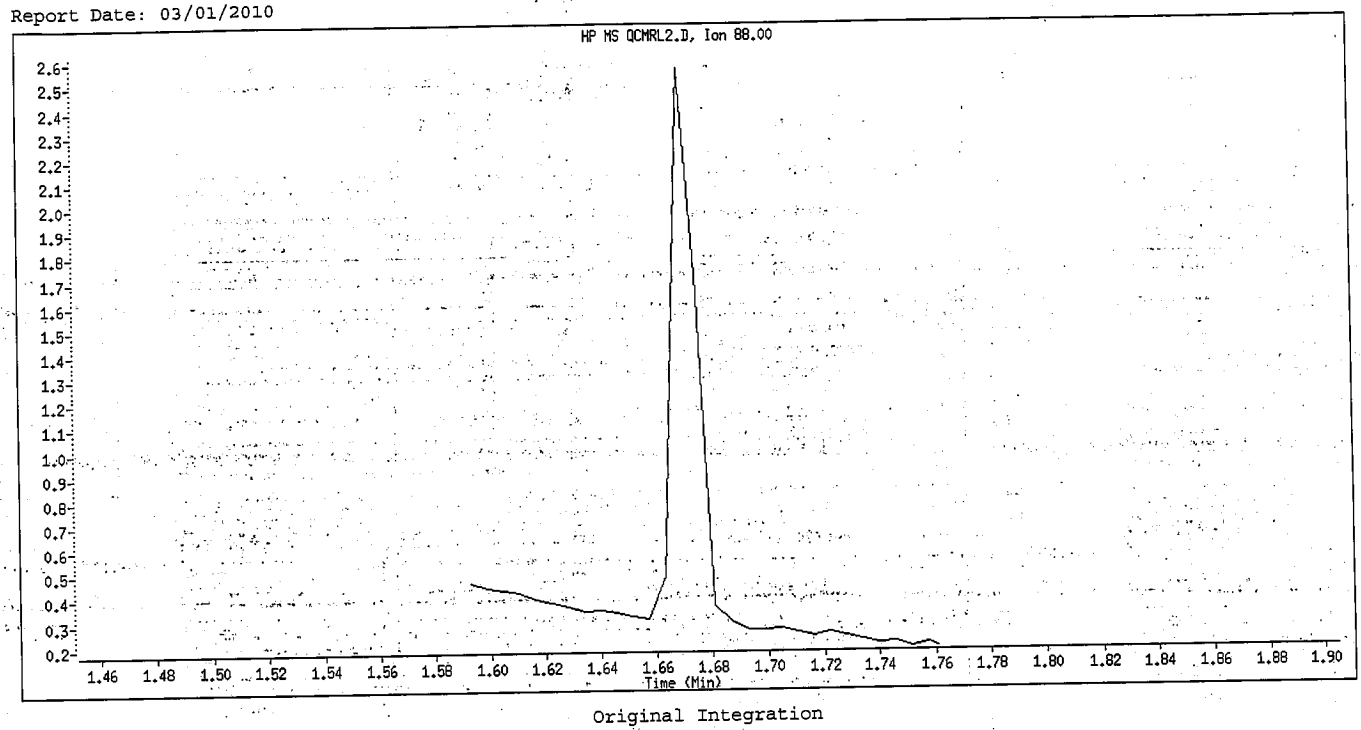
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
31	bis(2-Chloroisopropyl)ether	45	3.663	3.669	(1.045)	449237	2.60888	10.436
37	Acetophenone	105	3.769	3.769	(1.076)	549084	2.60701	10.428
32	N-Nitroso-di-n-propylamine	70	3.757	3.763	(1.072)	330087	2.55970	10.239
192	4-Methylphenol	108	3.739	3.745	(1.067)	380028	2.57513	10.300
34	Hexachloroethane	117	3.869	3.869	(1.104)	169304	2.49198	9.9679
35	Nitrobenzene	77	3.898	3.898	(0.884)	486610	2.47252	9.8901
41	Isophorone	82	4.057	4.063	(0.920)	883201	2.56497	10.260
42	2-Nitrophenol	139	4.127	4.127	(0.936)	202698	2.49423	9.9769
43	2,4-Dimethylphenol	107	4.127	4.127	(0.936)	423117	2.43146	9.7258
44	bis(2-Chloroethoxy)methane	93	4.192	4.198	(0.951)	449525	2.55998	10.240
46	2,4-Toluenediamene	121	5.227	5.233	(1.185)	194776	2.35146	9.4058
47	1,3,5-Trichlorobenzene	180	4.139	4.139	(0.939)	340066	2.40970	9.6388
48	2,4-Dichlorophenol	162	4.292	4.292	(0.973)	298551	2.54779	10.191
49	Benzoic Acid	122	4.186	4.216	(0.949)	460256	4.89626	19.585(H)
50	1,2,4-Trichlorobenzene	180	4.363	4.363	(0.989)	344714	2.51162	10.046
51	Naphthalene	128	4.421	4.427	(1.003)	1162260	2.44644	9.7857
52	4-Chloroaniline	127	4.439	4.445	(1.007)	471847	2.43411	9.7364
56	Hexachlorobutadiene	225	4.504	4.504	(1.021)	206265	2.44649	9.7859
210	Caprolactam	113	4.680	4.692	(1.061)	130724	2.67827	10.713(Q)
57	1,2,3-Trichlorobenzene	180	4.527	4.527	(1.027)	314356	2.43520	9.7408
59	4-Chloro-3-Methylphenol	107	4.768	4.774	(1.081)	362116	2.56804	10.272
62	2-Methylnaphthalene	142	4.916	4.921	(1.115)	658821	2.50433	10.017
63	1-Methylnaphthalene	142	4.992	4.992	(1.132)	754519	2.48250	9.9300
64	Hexachlorocyclopentadiene	237	5.033	5.039	(0.885)	223897	2.39409	9.5764
66	2,4,6-Trichlorophenol	196	5.116	5.116	(0.900)	227326	2.63863	10.554
67	2,4,5-Trichlorophenol	196	5.139	5.145	(0.904)	239315	2.66230	10.649
211	1,1'-Biphenyl	154	5.251	5.251	(0.923)	959382	2.40369	9.6147(Q)
68	1,2,3,5-Tetrachlorobenzene	216	5.033	5.033	(0.885)	354241	2.42624	9.7050
70	2-Chloronaphthalene	162	5.274	5.280	(0.928)	702884	2.52951	10.118
73	2-Nitroaniline	65	5.333	5.333	(0.938)	265401	2.61399	10.456
74	1,2,3,4-Tetrachlorobenzene	216	5.251	5.251	(0.923)	328739	2.41193	9.6477
76	Dimethylphthalate	163	5.451	5.451	(0.959)	816493	2.51323	10.053
78	2,6-Dinitrotoluene	165	5.498	5.504	(0.967)	186408	2.60983	10.439
79	Acenaphthylene	152	5.586	5.586	(0.982)	1185100	2.57505	10.300
80	1,2-Dinitrobenzene	168	5.545	5.551	(0.975)	95281	2.65749	10.630
81	3-Nitroaniline	138	5.627	5.633	(0.990)	203429	2.63056	10.522
82	Acenaphthene	153	5.710	5.710	(1.004)	741954	2.45254	9.8102
83	2,4-Dinitrophenol	184	5.704	5.710	(1.003)	225853	4.81327	19.253(Q)
85	4-Nitrophenol	109	5.727	5.733	(1.007)	144581	2.65272	10.611(QM)
86	Dibenzofuran	168	5.833	5.839	(1.026)	1028224	2.53099	10.124
87	2,4-Dinitrotoluene	165	5.798	5.804	(1.020)	260919	2.67216	10.689
91	2,3,5,6-Tetrachlorophenol	232	5.886	5.886	(1.035)	209494	2.54120	10.165
93	Diethylphthalate	149	5.963	5.963	(1.049)	889730	2.52563	10.102
94	Fluorene	166	6.086	6.092	(1.070)	852920	2.45121	9.8048
95	4-Chlorophenyl-phenylether	204	6.068	6.068	(1.067)	410994	2.53696	10.148
96	4-Nitroaniline	138	6.080	6.086	(1.069)	229574	2.66310	10.652
98	4,6-Dinitro-2-methylphenol	198	6.104	6.104	(0.899)	143365	2.37244	9.4897
99	N-Nitrosodiphenylamine	169	6.151	6.157	(0.906)	630906	2.58342	10.334
100	1,2-Diphenylhydrazine	77	6.186	6.186	(0.912)	1097711	2.50535	10.021
106	4-Bromophenyl-phenylether	248	6.433	6.433	(0.948)	237513	2.48884	9.9553
107	Hexachlorobenzene	284	6.504	6.504	(0.958)	241854	2.36621	9.4648
212	Atrazine	200	6.521	6.527	(0.961)	172722	2.73355	10.934(Q)
111	Pentachlorophenol	266	6.633	6.639	(0.977)	337741	5.37634	21.505
115	Phenanthrene	178	6.804	6.804	(1.003)	1227166	2.44918	9.7967

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
116 Anthracene	178	6.839	6.845	(1.008)	1261645	2.51962	10.078
119 Carbazole	167	6.945	6.945	(1.023)	1169915	2.49579	9.9831
120 Di-n-Butylphthalate	149	7.162	7.162	(1.055)	1497698	2.61701	10.468
123 Fluoranthene	202	7.686	7.692	(1.133)	1325420	2.46781	9.8712
124 Benzidine	184	7.757	7.762	(0.885)	719267	2.54995	10.200
125 Pyrene	202	7.862	7.862	(0.897)	1415958	2.54002	10.160
131 Butylbenzylphthalate	149	8.280	8.286	(0.944)	665584	2.58943	10.358
133 3,3'-Dimethoxybenzidine	244	8.674	8.680	(0.989)	335091	2.85769	11.431
135 3,3'-Dichlorobenzidine	252	8.715	8.721	(0.994)	531769	2.45880	9.8352
136 Benzo(a)Anthracene	228	8.762	8.762	(0.999)	1400447	2.45229	9.8092
137 Chrysene	228	8.792	8.798	(1.003)	1307538	2.42772	9.7109
138 4,4'-Methylene bis(o-chloroan	231	8.709	8.715	(0.993)	263159	2.57247	10.290
139 bis(2-ethylhexyl)Phthalate	149	8.698	8.704	(0.992)	958087	2.59021	10.361(Q)
140 Di-n-octylphthalate	149	9.233	9.239	(0.906)	1657886	2.74679	10.987
141 Benzo(b)fluoranthene	252	9.751	9.756	(0.957)	1414460	2.47273	9.8909
142 Benzo(k)fluoranthene	252	9.780	9.786	(0.960)	1507960	2.46427	9.8571
146 Benzo(a)pyrene	252	10.121	10.133	(0.994)	1345103	2.51095	10.044
149 Indeno(1,2,3-cd)pyrene	276	11.692	11.709	(1.148)	1553780	2.59467	10.379
150 Dibenz(a,h)anthracene	278	11.697	11.715	(1.148)	1286164	2.52703	10.108
151 Benzo(g,h,i)perylene	276	12.150	12.162	(1.193)	1244785	2.58989	10.360
101 Diphenylamine	169	6.151	6.157	(0.906)	630906	2.58342	10.334

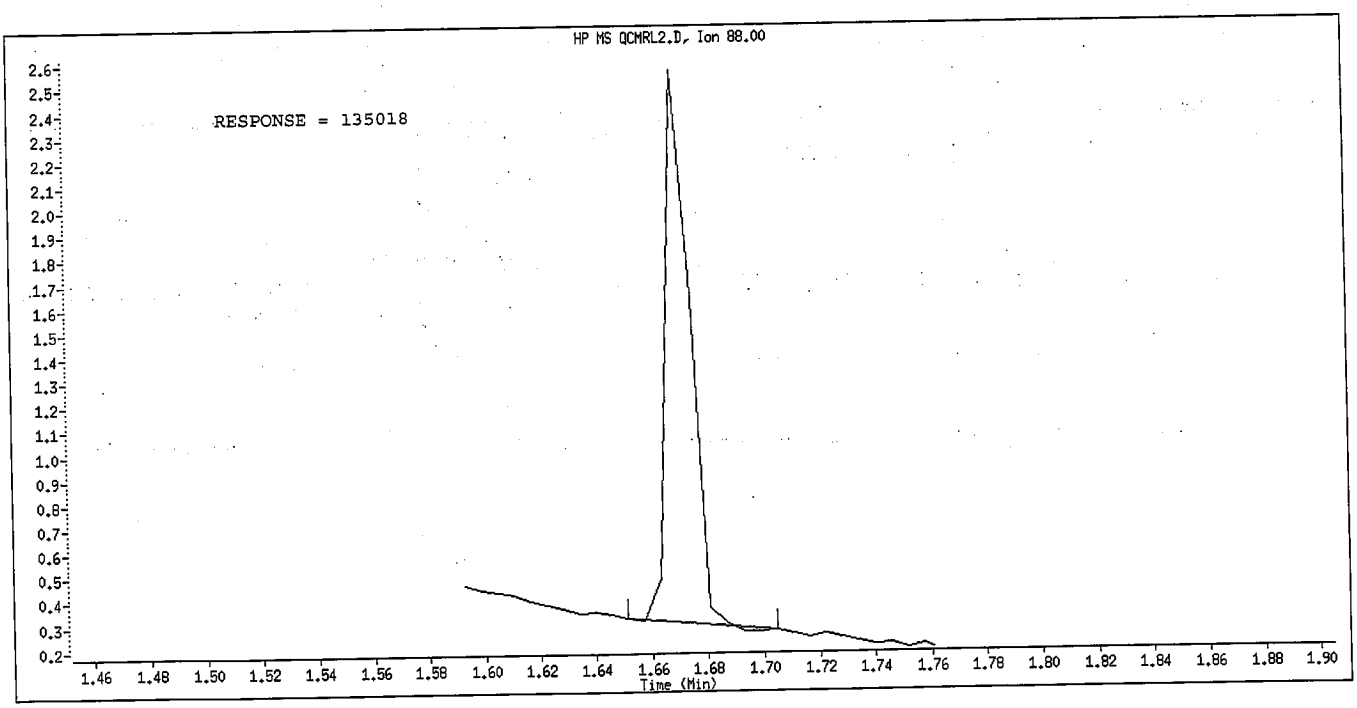
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File Name: QCMRL2.D
Inj. Date and Time: 01-MAR-2010 09:38
Instrument ID: a4ag2.i
Client ID:
Compound Name: 1,4-Dioxane
CAS #: 123-91-1
Report Date: 03/01/2010



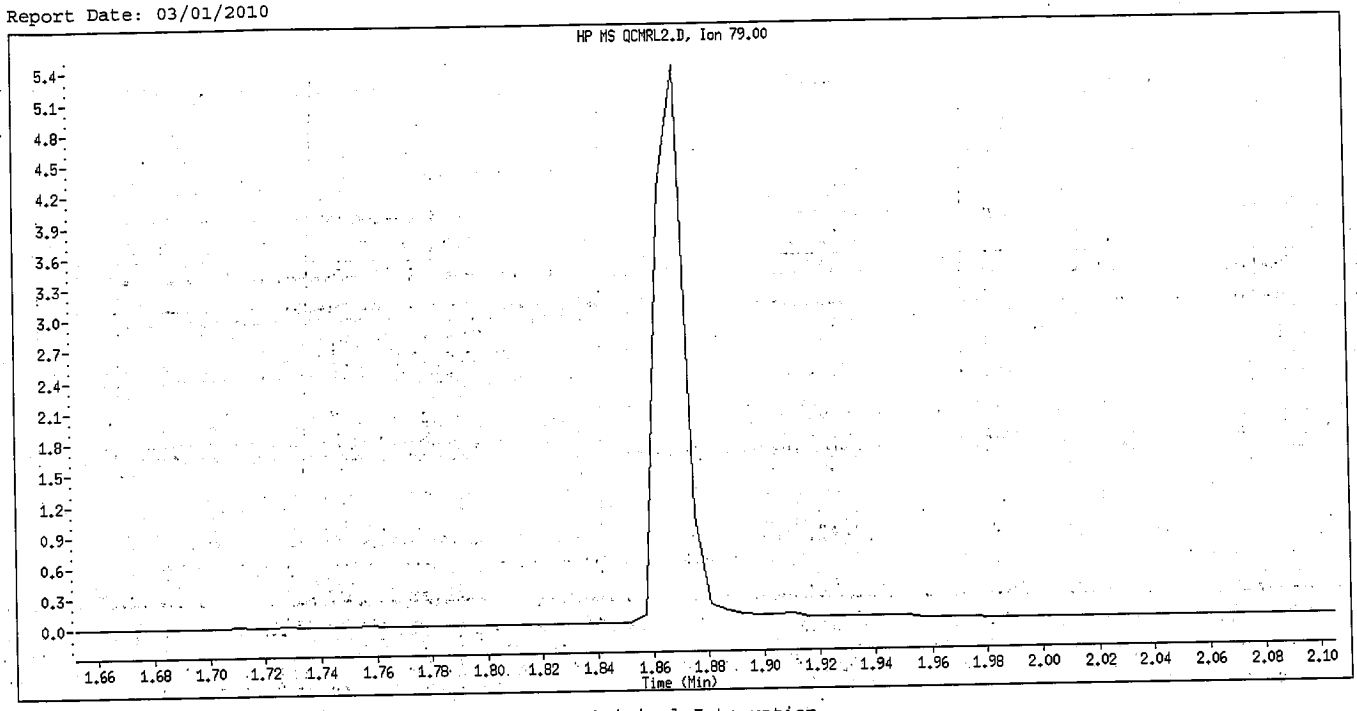
Original Integration



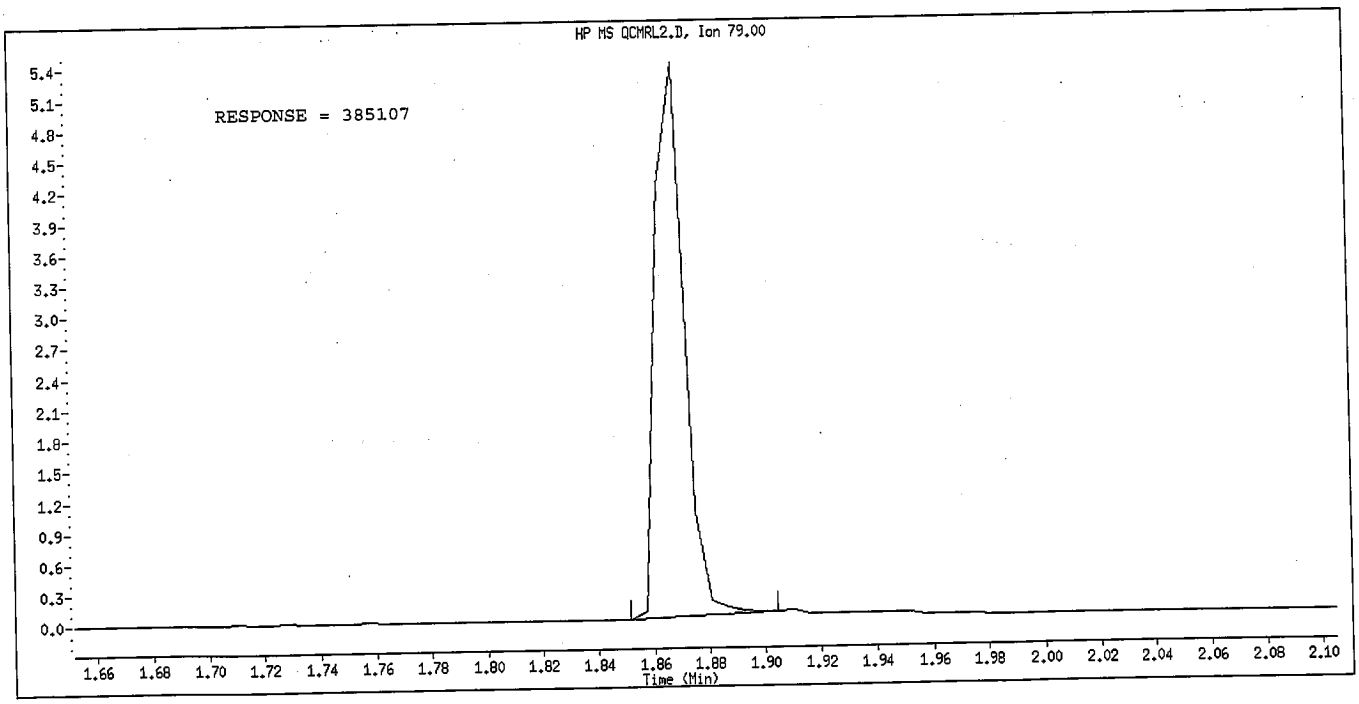
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: QCMRL2.D
Inj. Date and Time: 01-MAR-2010 09:38
Instrument ID: a4ag2.i
Client ID:
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 03/01/2010



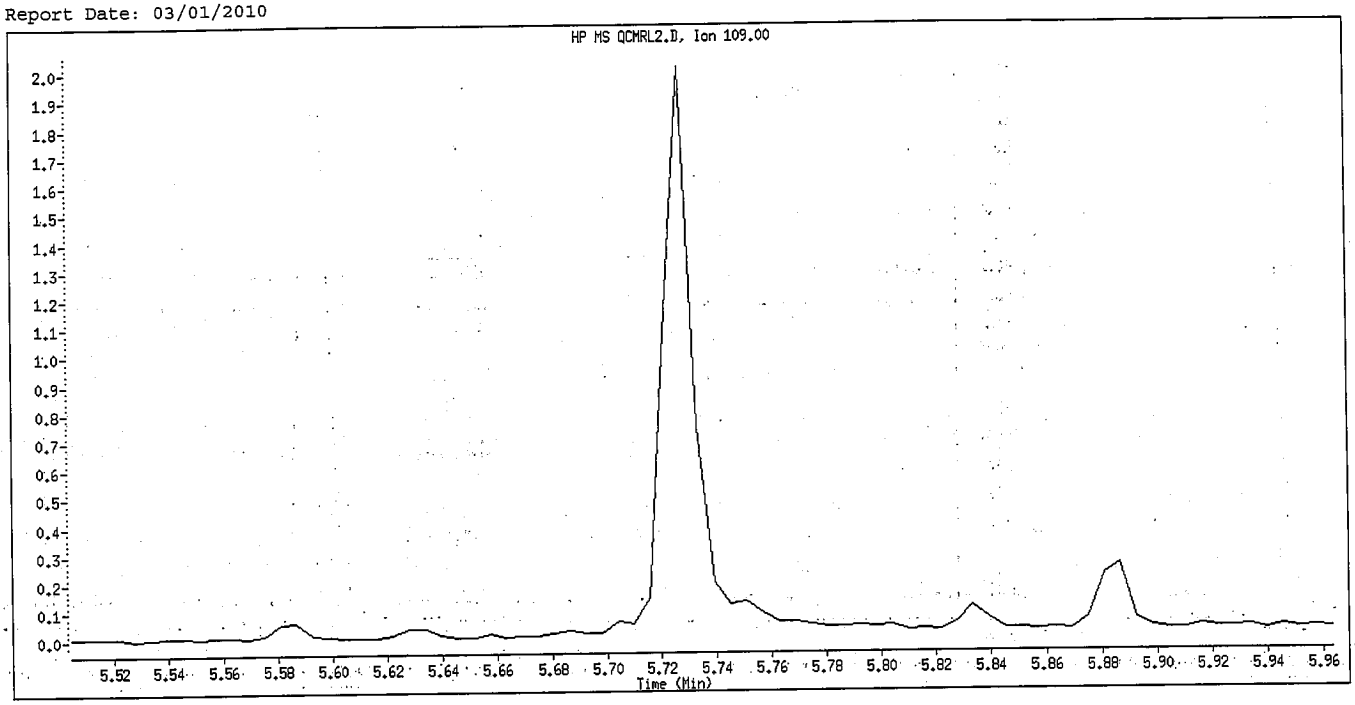
Original Integration



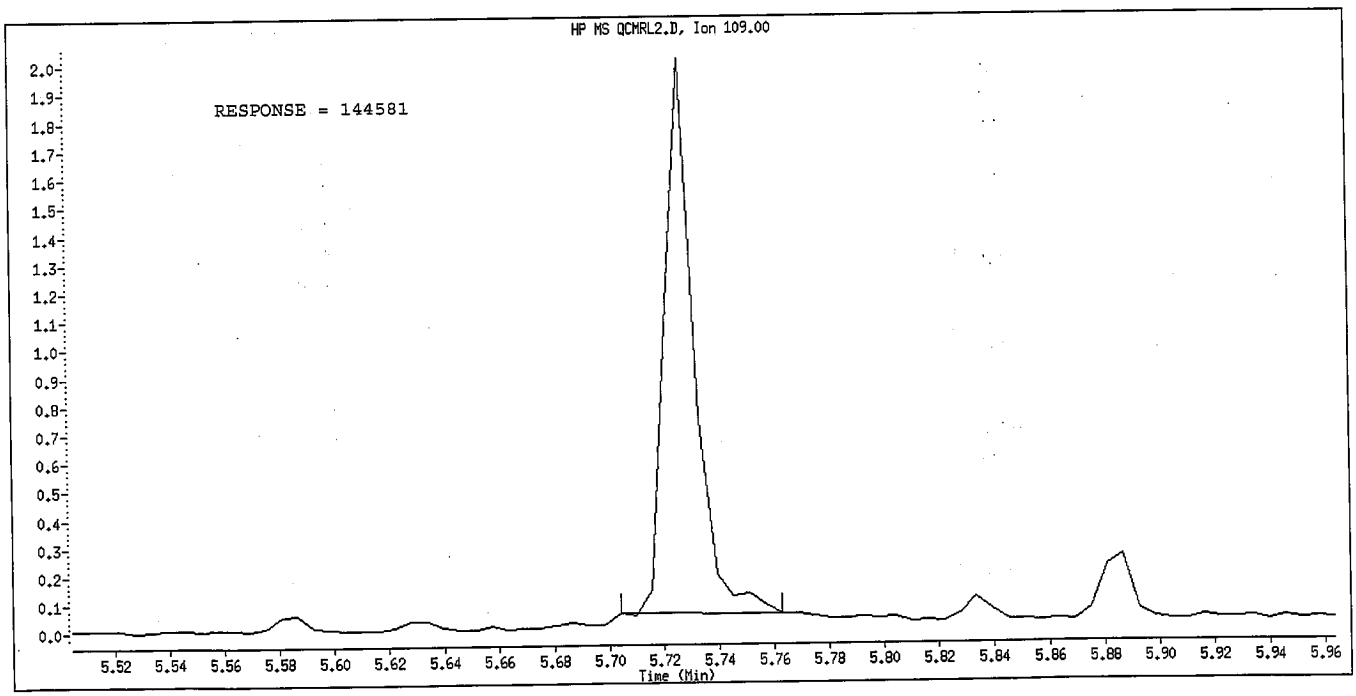
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: QCMRL2.D
Inj. Date and Time: 01-MAR-2010 09:38
Instrument ID: a4ag2.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/01/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

0.5 uL inj. of 0.1 ppm STD = 0.05 ng on column

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00217d.b\MDLCHK1.D
Lab Smp Id: L1
Inj Date : 17-FEB-2010 15:30
Operator : 046900 Inst ID: a4ag2.i
Smp Info : L1,00217A.b,8270C-625,PAH.SUB,1,,1
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00217d.b\8270C-625.m
Meth Date : 23-Feb-2010 06:43 hulat Quant Type: ISTD
Cal Date : 17-FEB-2010 16:56 Cal File: 2AMH0217.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.sub
Target Version: 4.14
Processing Host: CANPMSSV04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.619	3.624	(1.000)	226448	2.00000	(Q)
* 2 Naphthalene-d8	136	4.519	4.518	(1.000)	894158	2.00000	
* 3 Acenaphthene-d10	164	5.789	5.789	(1.000)	495883	2.00000	
* 4 Phenanthrene-d10	188	6.883	6.883	(1.000)	809320	2.00000	
* 5 Chrysene-d12	240	8.871	8.877	(1.000)	990603	2.00000	
* 6 Perylene-d12	264	10.389	10.400	(1.000)	941305	2.00000	
198 1,4-Dioxane	88	Compound Not Detected.					
9 Pyridine	79	Compound Not Detected.					
10 N-Nitrosodimethylamine	74	Compound Not Detected.					
12 3-Chloropropionitrile	54	Compound Not Detected.					
209 Benzaldehyde	77	3.331	3.330	(0.920)	5397	0.05641	0.056410
21 Aniline	93	3.389	3.395	(0.937)	9132	0.04532	0.045315
22 Phenol	94	3.325	3.330	(0.919)	7733	0.04711	0.047107
23 bis(2-Chloroethyl)ether	93	3.413	3.419	(0.943)	6697	0.05012	0.050117
24 2-Chlorophenol	128	3.472	3.477	(0.959)	6172	0.04373	0.043729
26 1,3-Dichlorobenzene	146	3.583	3.589	(0.990)	7559	0.05098	0.050975
27 1,4-Dichlorobenzene	146	3.636	3.636	(1.005)	7337	0.05023	0.050232(M)
28 1,2-Dichlorobenzene	146	3.742	3.742	(1.034)	6962	0.04821	0.048211
29 Benzyl Alcohol	108	3.689	3.695	(1.020)	3526	0.04079	0.040785
30 2-Methylphenol	108	3.742	3.748	(1.034)	6221	0.04936	0.049357
31 bis(2-Chloroisopropyl)ether	45	3.778	3.777	(1.044)	5846	0.04777	0.047772
37 Acetophenone	105	3.883	3.889	(1.073)	8490	0.04368	0.043683
32 N-Nitroso-di-n-propylamine	70	3.866	3.871	(1.068)	4947	0.04520	0.045204
192 4-Methylphenol	108	3.842	3.848	(1.062)	5154	0.04043	0.040433
34 Hexachloroethane	117	3.978	3.983	(1.099)	3588	0.05961	0.059613
35 Nitrobenzene	77	4.013	4.018	(0.888)	7078	0.04577	0.045771
41 Isophorone	82	4.172	4.171	(0.923)	12431	0.04544	0.045444
42 2-Nitrophenol	139	4.236	4.236	(0.938)	2862	0.03803	0.038034(Q)
43 2,4-Dimethylphenol	107	4.225	4.230	(0.935)	7056	0.04707	0.047074
44 bis(2-Chloroethoxy)methane	93	4.301	4.301	(0.952)	7166	0.04823	0.048233
46 2,4-Toluenediamene	121	Compound Not Detected.					
47 1,3,5-Trichlorobenzene	180	4.242	4.242	(0.939)	6946	0.05480	0.054798
48 2,4-Dichlorophenol	162	4.395	4.401	(0.973)	3933	0.03669	0.036692
49 Benzoic Acid	122	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
50	1,2,4-Trichlorobenzene	180	4.466	4.471	(0.988)	6494	0.05322	0.053220
51	Naphthalene	128	4.536	4.536	(1.004)	20392	0.04908	0.049083
52	4-Chloroaniline	127	4.548	4.554	(1.007)	7515	0.04334	0.043339
56	Hexachlorobutadiene	225	4.601	4.601	(1.018)	3676	0.04941	0.049411
210	Caprolactam	113	4.789	4.813	(1.060)	1500	0.14738	0.14738
57	1,2,3-Trichlorobenzene	180	4.630	4.630	(1.025)	6051	0.05254	0.052542
59	4-Chloro-3-Methylphenol	107	4.866	4.871	(1.077)	4875	0.03917	0.039167
62	2-Methylnaphthalene	142	5.025	5.024	(1.112)	10822	0.04755	0.047546
63	1-Methylnaphthalene	142	5.101	5.101	(1.129)	12682	0.04836	0.048357
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	5.213	5.218	(0.900)	2917	0.03677	0.036767
67	2,4,5-Trichlorophenol	196	5.242	5.242	(0.906)	3116	0.03618	0.036179
211	1,1'-Biphenyl	154	5.354	5.360	(0.925)	16805	0.04831	0.048306
68	1,2,3,5-Tetrachlorobenzene	216	5.130	5.136	(0.886)	6389	0.05036	0.050357
70	2-Chloronaphthalene	162	5.383	5.389	(0.930)	11297	0.04564	0.045641
73	2-Nitroaniline	65	5.442	5.442	(0.940)	3229	0.03836	0.038360
74	1,2,3,4-Tetrachlorobenzene	216	5.354	5.354	(0.925)	6100	0.05141	0.051415
76	Dimethylphthalate	163	5.548	5.554	(0.958)	14493	0.04797	0.047969
78	2,6-Dinitrotoluene	165	5.607	5.612	(0.969)	2069	0.13453	0.13453
79	Acenaphthylene	152	5.689	5.695	(0.983)	17799	0.04346	0.043461
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	5.736	5.742	(0.991)	2396	0.03377	0.033766 (QM)
82	Acenaphthene	153	5.813	5.818	(1.004)	13278	0.04973	0.049733 (Q)
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.936	5.942	(1.025)	17541	0.04831	0.048307
87	2,4-Dinitrotoluene	165	5.901	5.907	(1.019)	2516	0.13629	0.13629
91	2,3,5,6-Tetrachlorophenol	232	5.983	5.983	(1.034)	2059	0.12099	0.12099
93	Diethylphthalate	149	6.054	6.060	(1.046)	13795	0.04301	0.043007
94	Fluorene	166	6.189	6.189	(1.069)	14752	0.04764	0.047636
95	4-Chlorophenyl-phenylether	204	6.171	6.171	(1.066)	7284	0.04987	0.049872
96	4-Nitroaniline	138	6.183	6.189	(1.068)	2666	0.16838	0.16838 (QM)
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	6.254	6.254	(0.909)	9627	0.04550	0.045496
100	1,2-Diphenylhydrazine	77	6.283	6.289	(0.913)	13567	0.03940	0.039403
106	4-Bromophenyl-phenylether	248	6.530	6.530	(0.949)	3552	0.04302	0.043021 (QM)
107	Hexachlorobenzene	284	6.589	6.595	(0.957)	5045	0.05598	0.055982
212	Atrazine	200	6.619	6.618	(0.962)	2211	0.04080	0.040801
111	Pentachlorophenol	266	6.736	6.730	(0.979)	2509	0.50216	0.50216 (QM)
115	Phenanthrene	178	6.901	6.907	(1.003)	22107	0.05056	0.050560
116	Anthracene	178	6.936	6.942	(1.008)	18734	0.04356	0.043558
119	Carbazole	167	7.048	7.048	(1.024)	20161	0.04967	0.049673
120	Di-n-Butylphthalate	149	7.248	7.248	(1.053)	26868	0.05250	0.052496
123	Fluoranthene	202	7.783	7.783	(1.131)	21491	0.04691	0.046912
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.954	7.959	(0.897)	23638	0.04975	0.049751
131	Butylbenzylphthalate	149	8.371	8.371	(0.944)	8925	0.03998	0.039981
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	8.812	8.818	(0.993)	6500	0.03466	0.034659
136	Benzo(a)Anthracene	228	8.860	8.865	(0.999)	26385	0.05359	0.053591
137	Chrysene	228	8.889	8.901	(1.002)	23405	0.05136	0.051357
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.777	8.783	(0.989)	13324	0.12297	0.12297
140	Di-n-octylphthalate	149	9.354	9.359	(0.900)	16304	0.18508	0.18508 (M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
141 Benzo(b)fluoranthene	252	9.912	9.924	(0.954)	23105	0.04713	0.047131
142 Benzo(k)fluoranthene	252	9.942	9.953	(0.957)	23926	0.04714	0.047144
146 Benzo(a)pyrene	252	10.318	10.336	(0.993)	20224	0.04479	0.044787
149 Indeno(1,2,3-cd)pyrene	276	12.053	12.089	(1.160)	20467	0.04019	0.040191
150 Dibenz(a,h)anthracene	278	12.071	12.100	(1.162)	20020	0.04406	0.044058
151 Benzo(g,h,i)perylene	276	12.577	12.606	(1.211)	20158	0.04769	0.047689
$ 154 Nitrobenzene-d5	82	4.001	4.001	(0.885)	7336	0.04690	0.046898 (R)
$ 155 2-Fluorobiphenyl	172	5.277	5.277	(0.912)	13443	0.04617	0.046174 (R)
$ 156 Terphenyl-d14	244	8.030	8.036	(0.905)	14870	0.04766	0.047658 (R)
$ 157 Phenol-d5	99	3.313	3.319	(0.915)	6943	0.04489	0.044894 (R)
$ 158 2-Fluorophenol	112	2.736	2.736	(0.756)	4978	0.04134	0.041341 (R)
$ 159 2,4,6-Tribromophenol	330	6.366	6.365	(1.100)	1343	0.15876	0.15876 (R)
$ 186 2-Chlorophenol-d4	132	3.466	3.466	(0.958)	5806	0.04513	0.045130 (R)
$ 187 1,2-Dichlorobenzene-d4	152	3.730	3.730	(1.031)	4945	0.05464	0.054642 (QR)
M 195 Cresols, total	100				11375	0.08979	0.089790
101 Diphenylamine	169	6.254	6.254	(0.909)	9627	0.04550	0.045496

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Report Date: 23-Feb-2010 06:46

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

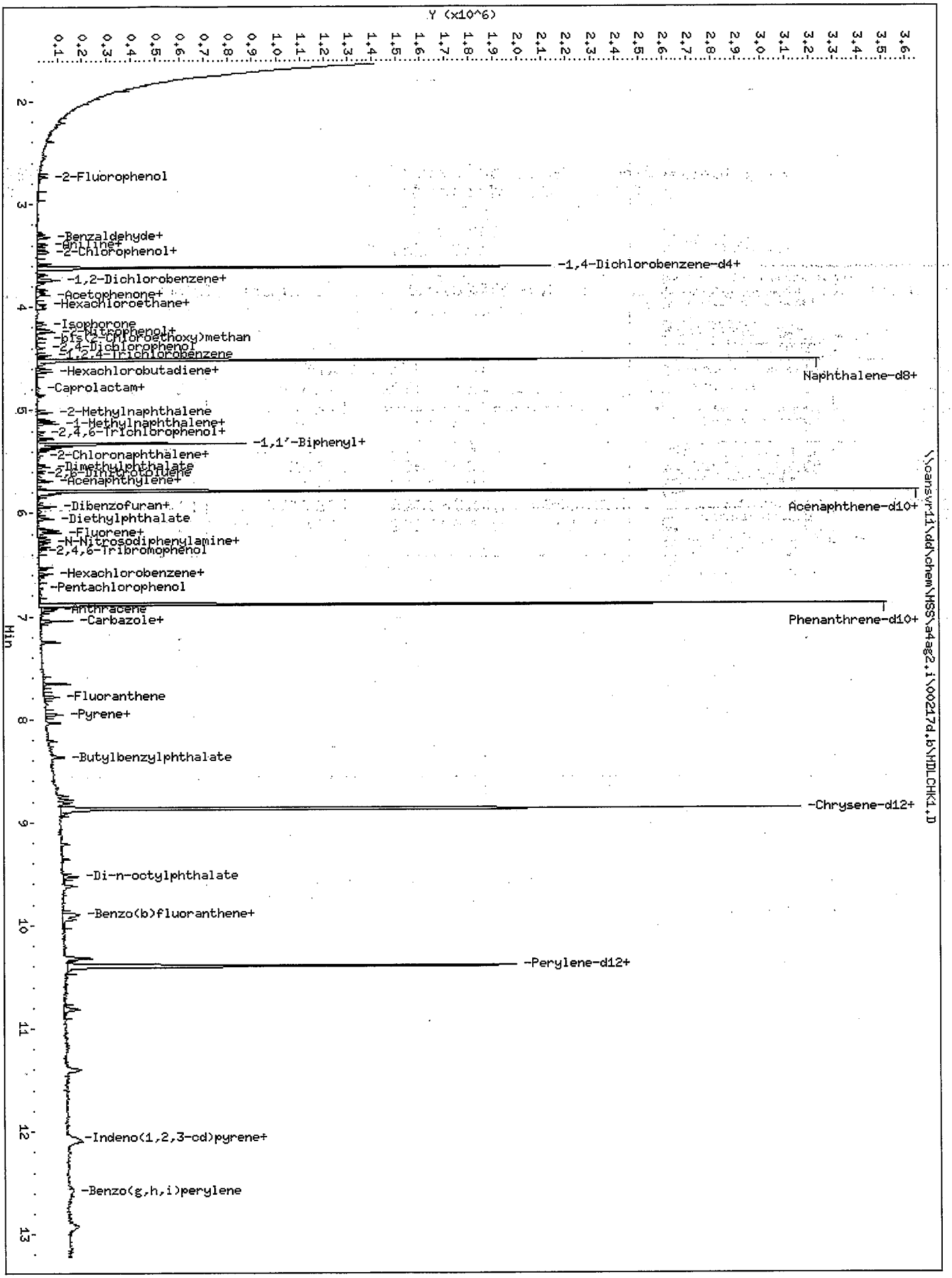
Instrument ID: a4ag2.i
Lab File ID: MDLCHK1.D
Lab Smp Id: L1
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00217d.b\8270C-625.m
Misc Info:

Calibration Date: 17-FEB-2010
Calibration Time: 14:03
Level:
Sample Type:

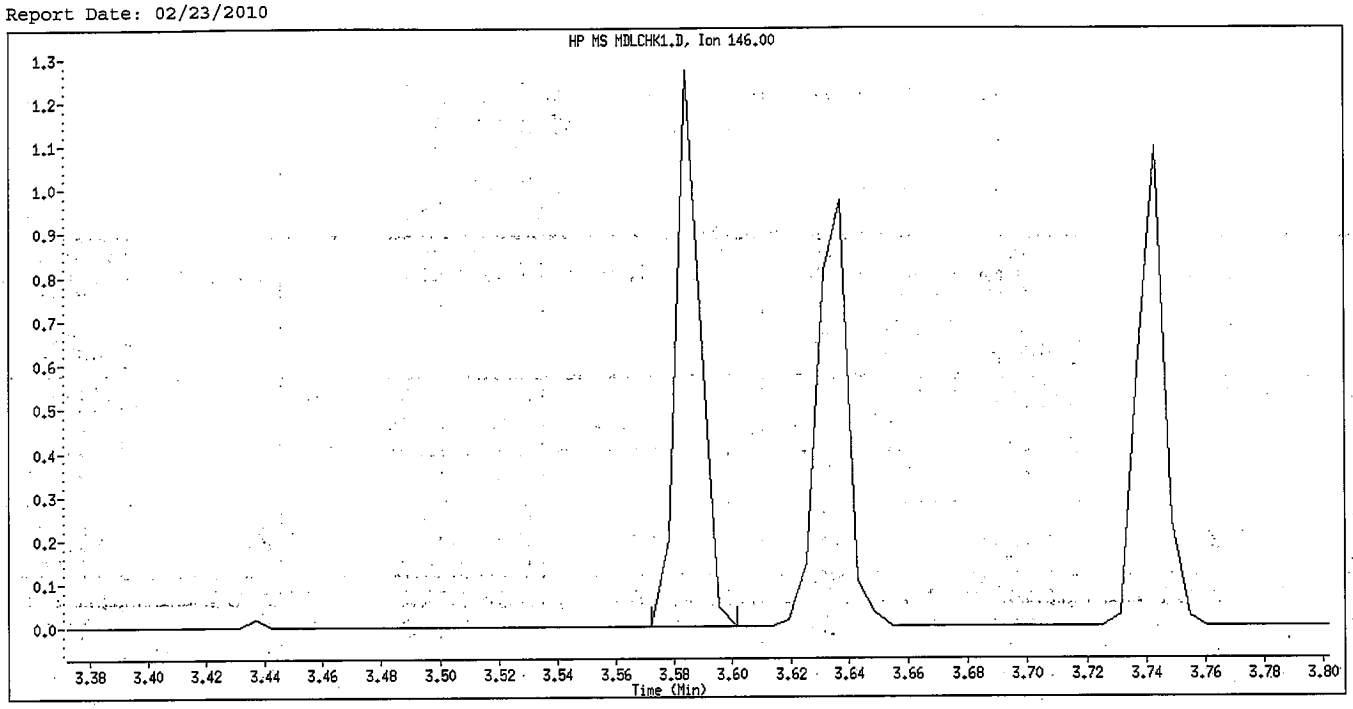
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	236450	118225	472900	226448	-4.23
2 Naphthalene-d8	953497	476749	1906994	894158	-6.22
3 Acenaphthene-d10	527333	263667	1054666	495883	-5.96
4 Phenanthrene-d10	896074	448037	1792148	809320	-9.68
5 Chrysene-d12	1143441	571721	2286882	990603	-13.37
6 Perylene-d12	1028807	514404	2057614	941305	-8.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.62	3.12	4.12	3.62	-0.16
2 Naphthalene-d8	4.52	4.02	5.02	4.52	0.00
3 Acenaphthene-d10	5.79	5.29	6.29	5.79	0.00
4 Phenanthrene-d10	6.88	6.38	7.38	6.88	0.00
5 Chrysene-d12	8.88	8.38	9.38	8.87	-0.06
6 Perylene-d12	10.40	9.90	10.90	10.39	-0.11

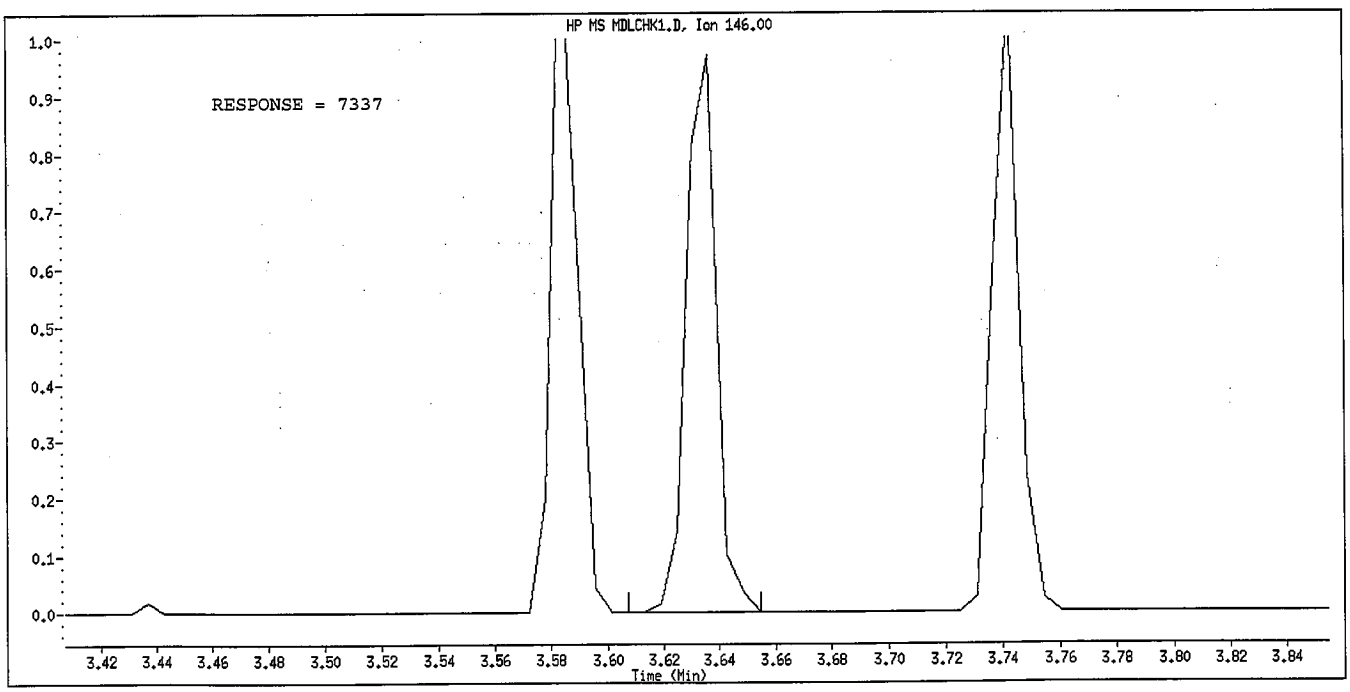
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
Min
-2-Fluorophenol
-Benzaldehyde+
-Aniline+
-2-Chlorophenol+
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-bis(2-Chloroethoxy)methan
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene+
Naphthalene-d8+
-Caprolactam+
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-1,1'-Biphenyl+
-2-Chloronaphthalene+
-Dimethylphthalate
-2,6-Dinitrotoluene
-Acenaphthylene+
Acenaphthene-d10+
-Dibenzofuran+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Hexachlorobenzene+
-Pentachlorophenol
-Anthracene
-Carbazole+
Phenanthrene-d10+
-Fluoranthene
-Pyrene+
-Butylbenzylphthalate
-Chrysene-d12+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Perylene-d12+
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\cansvr11\dd\chem\MSS\a4ag2.i\00217d.b\HDLCHK4.D

Data File Name: MDLCHK1.D
Inj. Date and Time: 17-FEB-2010 15:30
Instrument ID: a4ag2.i
Client ID:
Compound Name: 1,4-Dichlorobenzene
CAS #: 106-46-7
Report Date: 02/23/2010



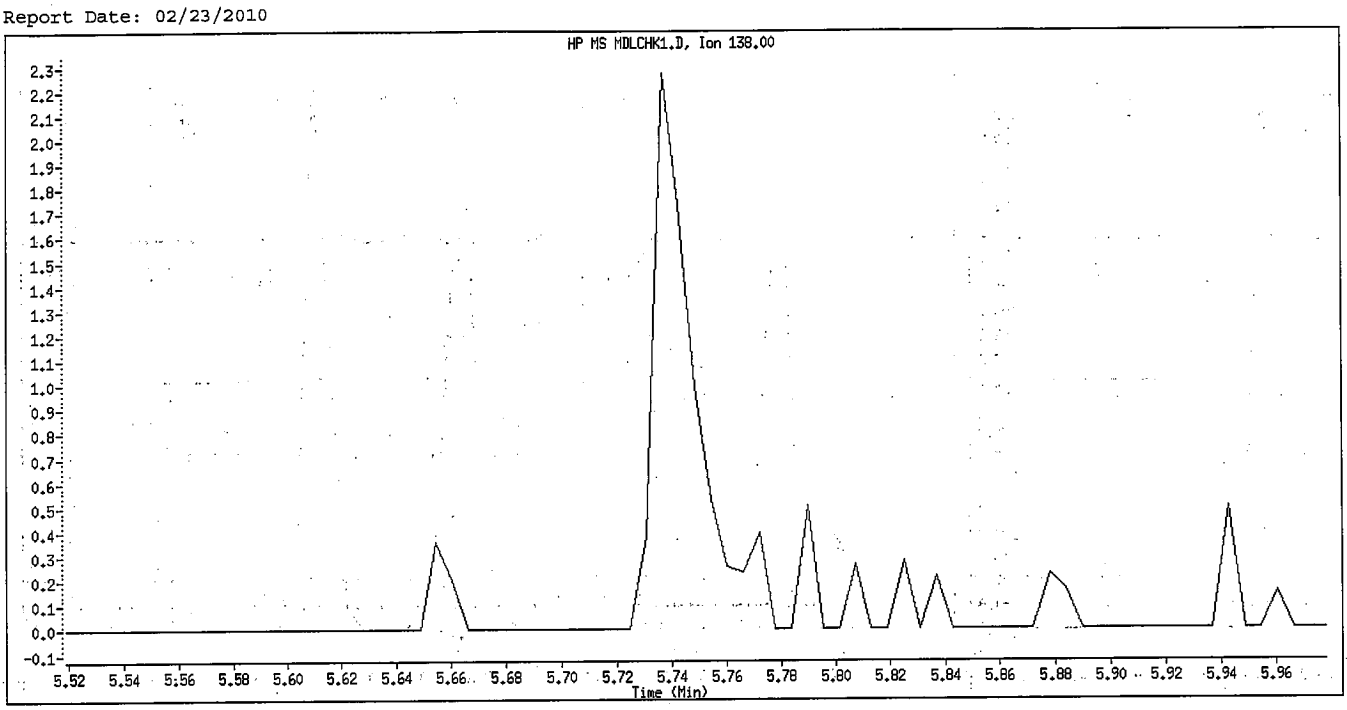
Original Integration



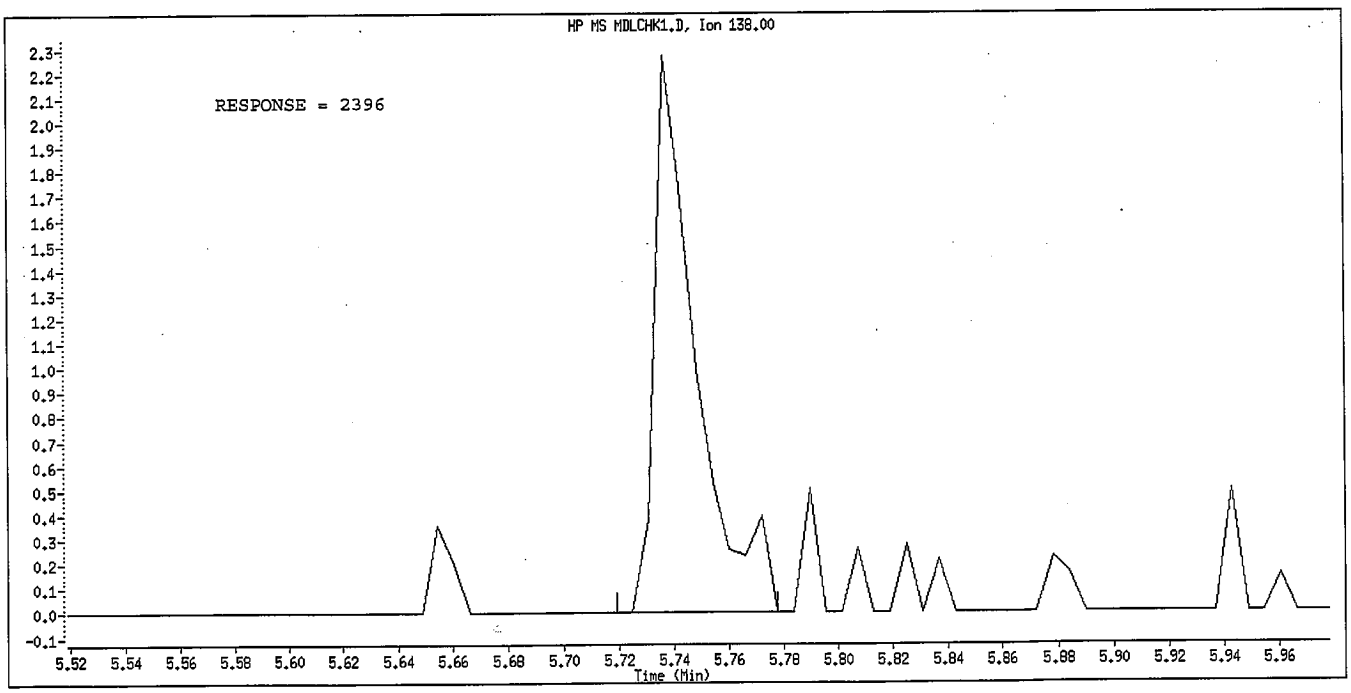
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK1.D
Inj. Date and Time: 17-FEB-2010 15:30
Instrument ID: a4ag2.i
Client ID:
Compound Name: 3-Nitroaniline
CAS #: 99-09-2
Report Date: 02/23/2010



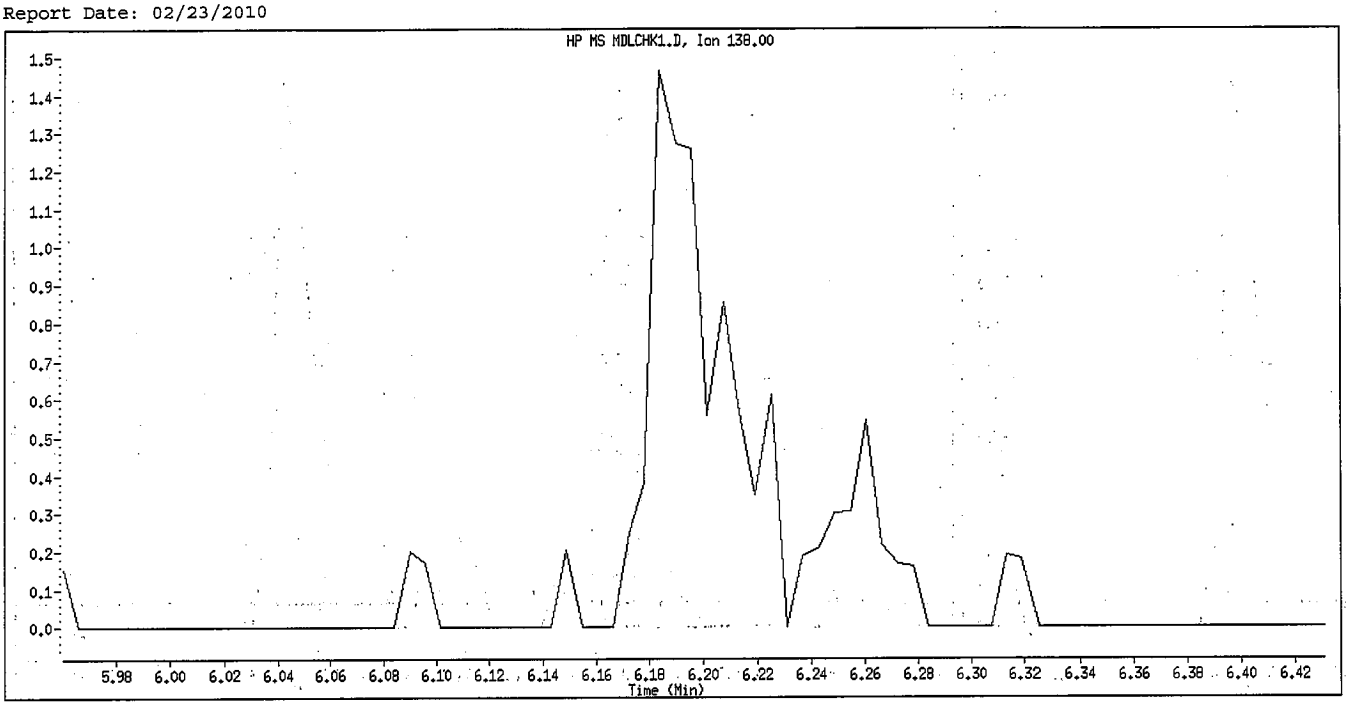
Original Integration



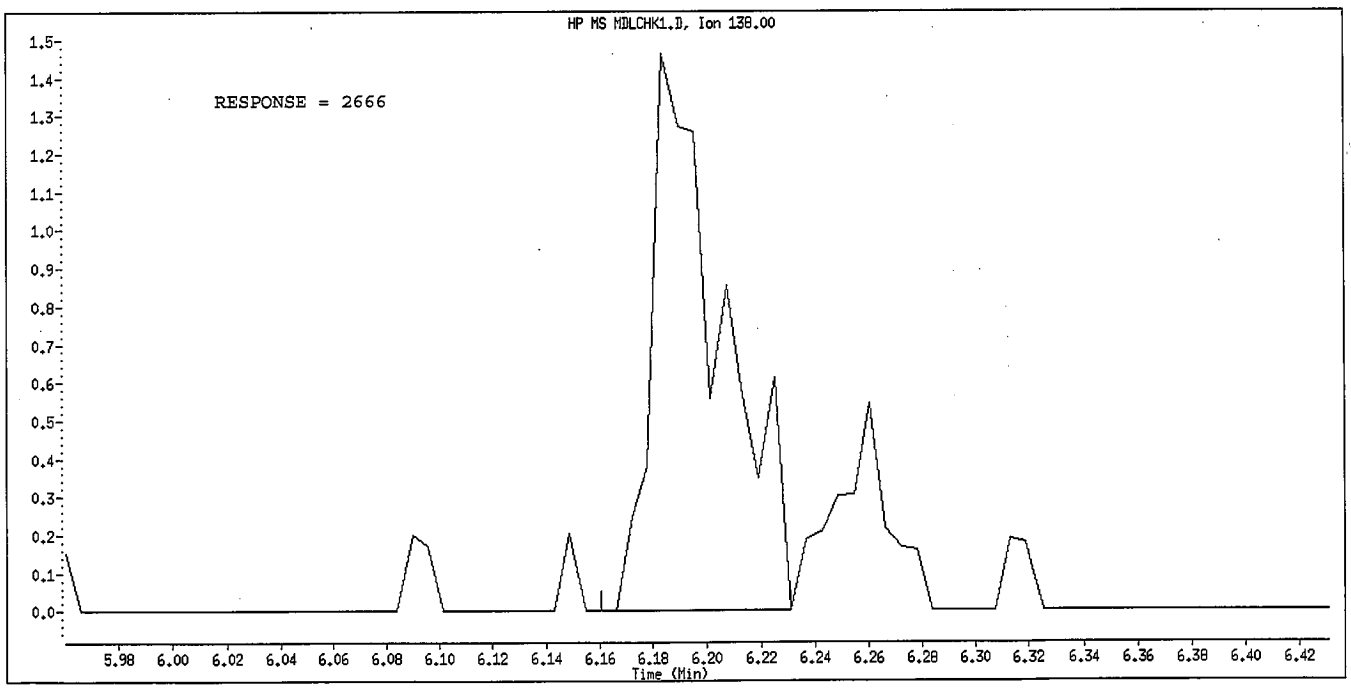
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK1.D
Inj. Date and Time: 17-FEB-2010 15:30
Instrument ID: a4ag2.i
Client ID:
Compound Name: 4-Nitroaniline
CAS #: 100-01-6
Report Date: 02/23/2010



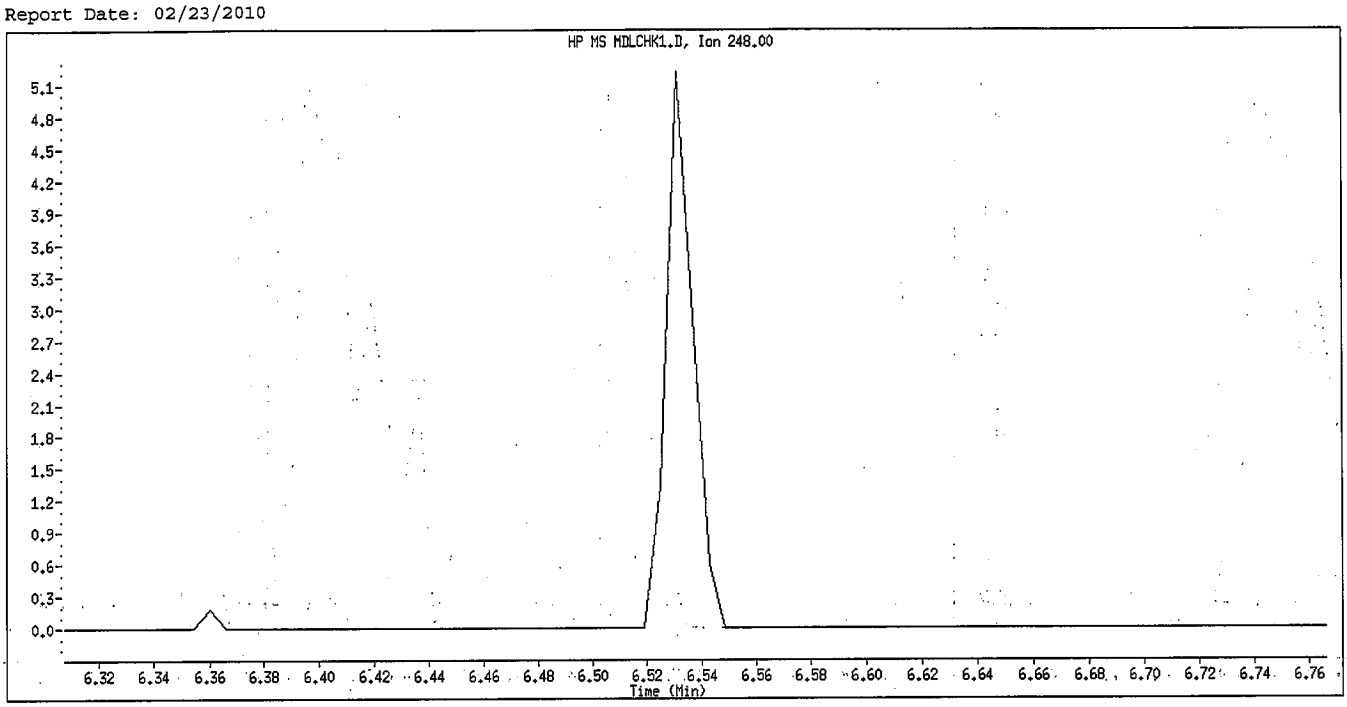
Original Integration



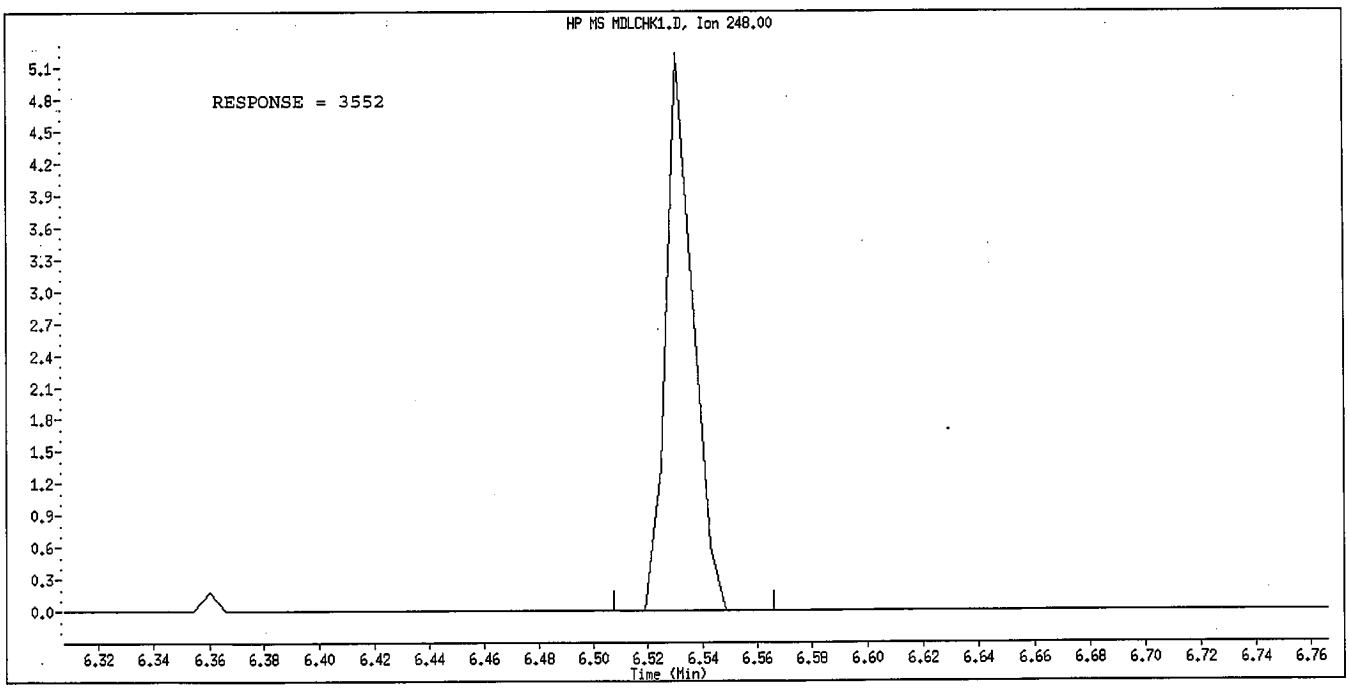
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK1.D
Inj. Date and Time: 17-FEB-2010 15:30
Instrument ID: a4ag2.i
Client ID:
Compound Name: 4-Bromophenyl-phenylether
CAS #: 101-55-3
Report Date: 02/23/2010



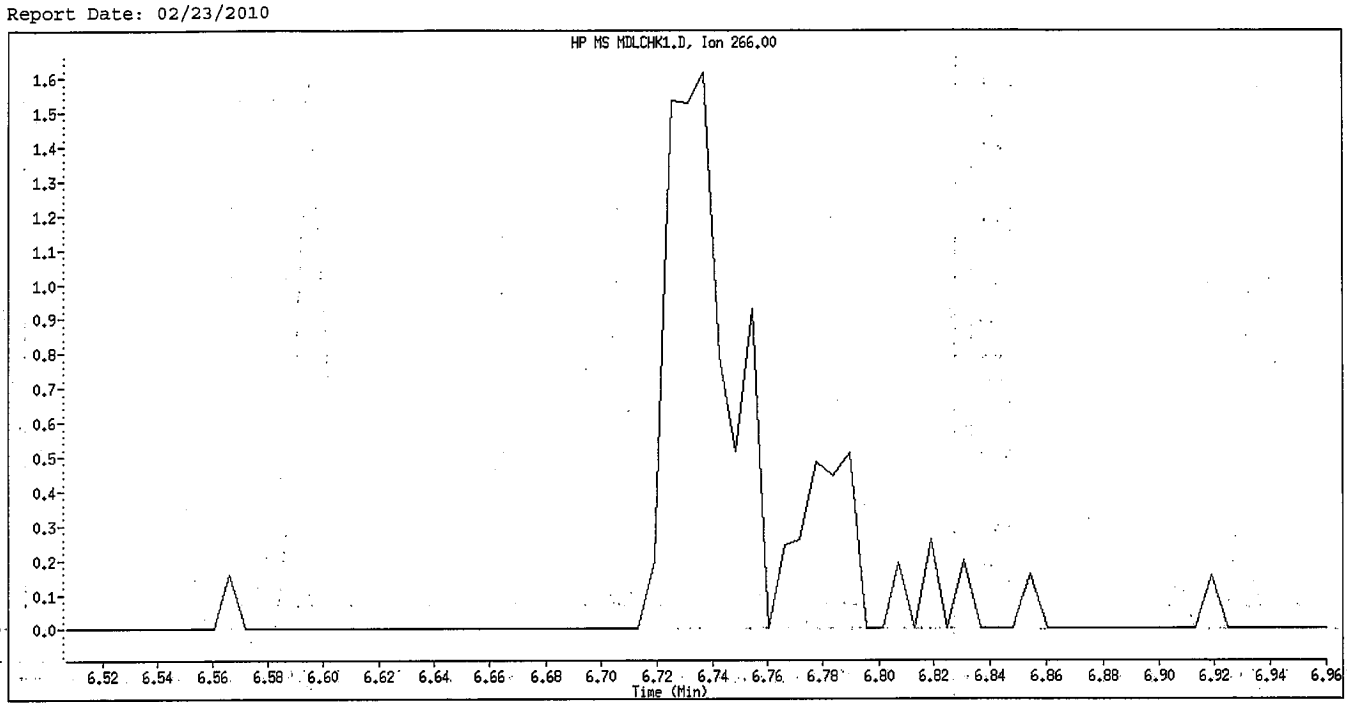
Original Integration



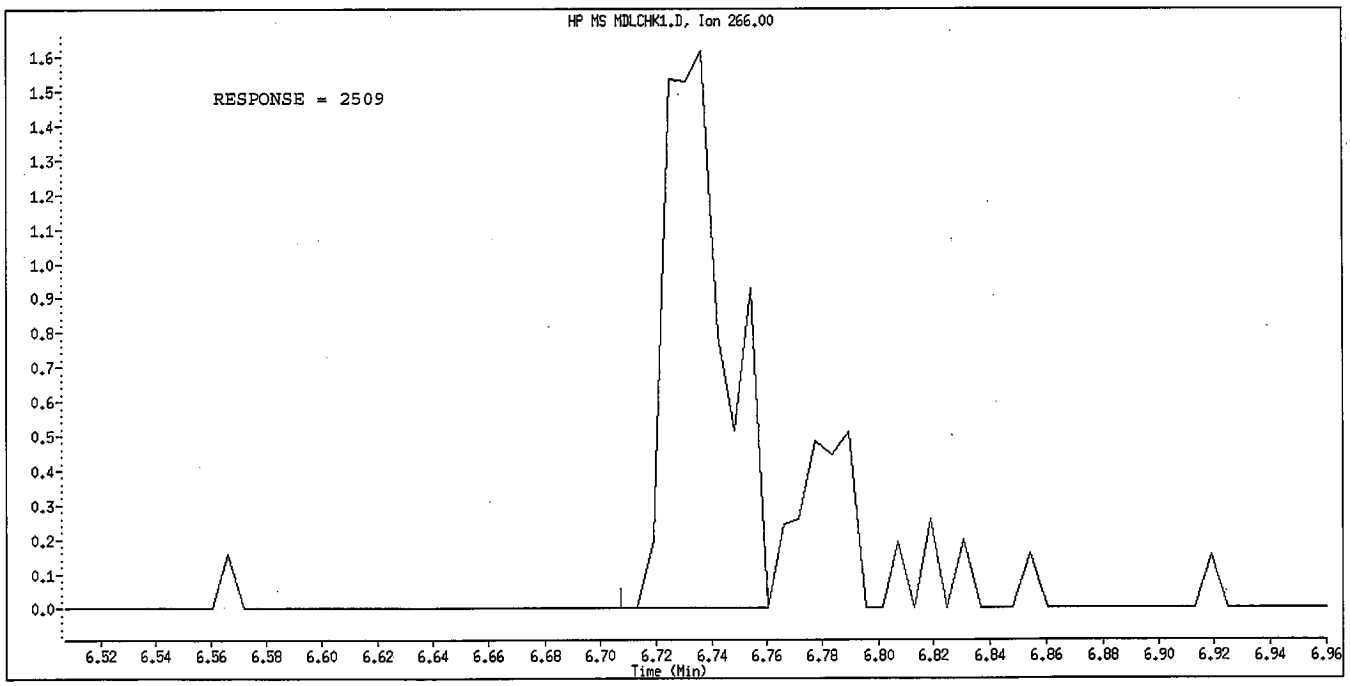
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK1.D
Inj. Date and Time: 17-FEB-2010 15:30
Instrument ID: a4ag2.i
Client ID:
Compound Name: Pentachlorophenol
CAS #: 87-86-5
Report Date: 02/23/2010



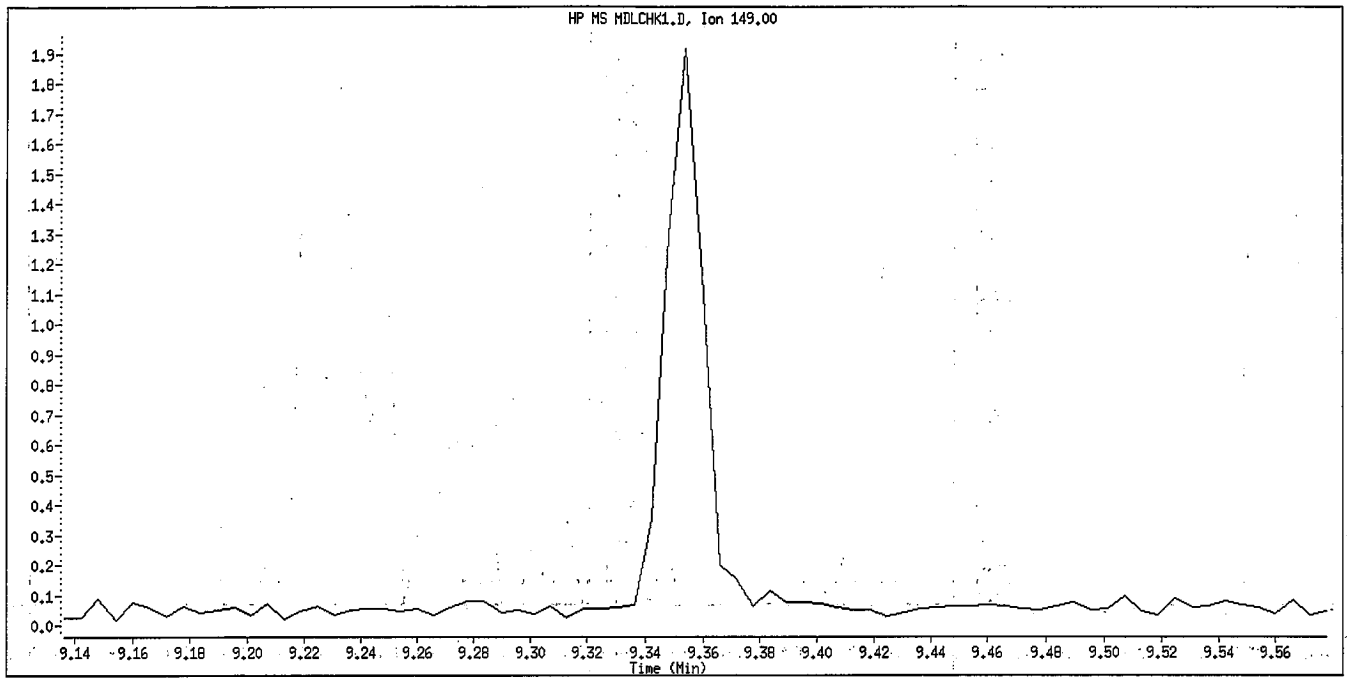
Original Integration



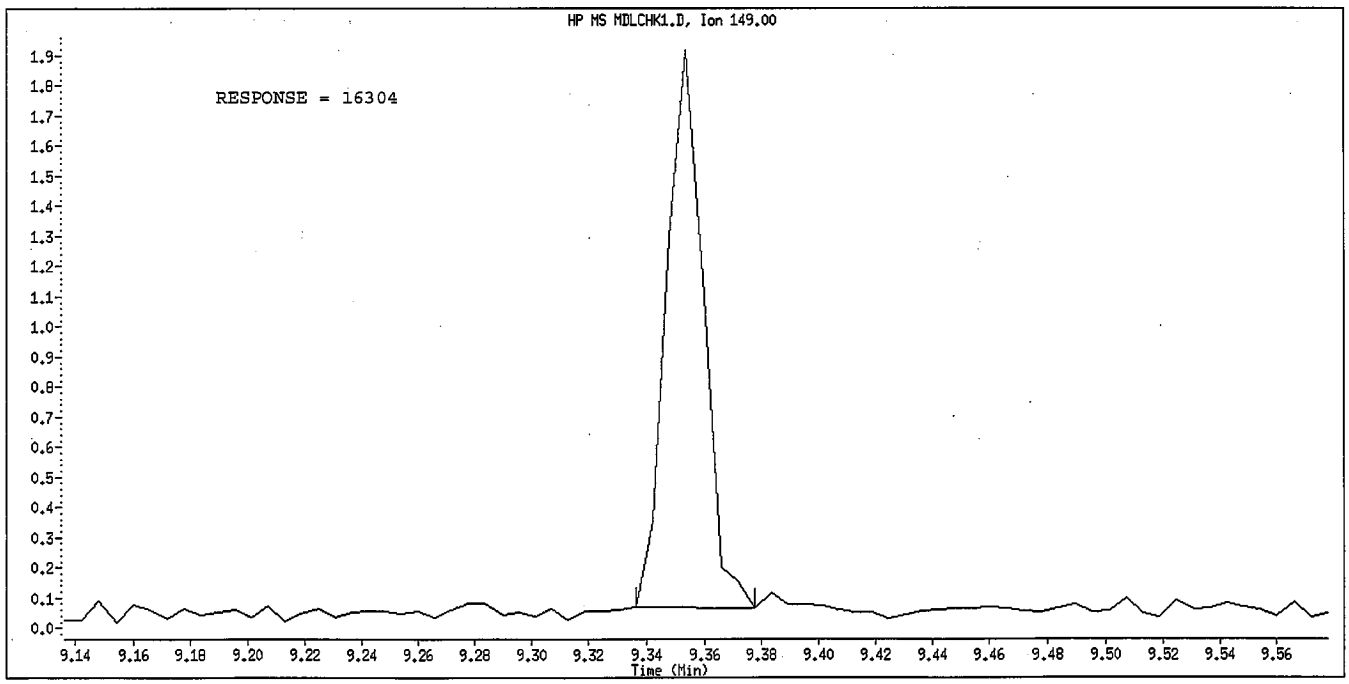
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK1.D
Inj. Date and Time: 17-FEB-2010 15:30
Instrument ID: a4ag2.i
Client ID:
Compound Name: Di-n-octylphthalate
CAS #: 117-84-0
Report Date: 02/23/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

0.5 uL inj. of 0.5 ppm STD = 0.25 ng on column

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00217d.b\MDLCHK2.D
Lab Smp Id: L2
Inj Date : 17-FEB-2010 15:15
Operator : 046900 Inst ID: a4ag2.i
Smp Info : L2,00217A.b,8270C-625,3-827042.SUB,1,,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4ag2.i\00217d.b\8270C-625.m
Meth Date : 23-Feb-2010 06:43 hulat Quant Type: ISTD
Cal Date : 17-FEB-2010 16:56 Cal File: 2AMH0217.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-827042.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.624	3.624	(1.000)	292487	2.00000	(Q)
* 2	Naphthalene-d8	136	4.518	4.518	(1.000)	1161492	2.00000	
* 3	Acenaphthene-d10	164	5.789	5.789	(1.000)	644634	2.00000	
* 4	Phenanthrene-d10	188	6.883	6.883	(1.000)	1069052	2.00000	
* 5	Chrysene-d12	240	8.871	8.877	(1.000)	1333073	2.00000	
* 6	Perylene-d12	264	10.395	10.400	(1.000)	1249709	2.00000	
198	1,4-Dioxane	88	1.813	1.807	(0.500)	17652	0.23625	0.23625(QM)
9	Pyridine	79	2.013	2.007	(0.555)	35453	0.19968	0.19968(QM)
10	N-Nitrosodimethylamine	74	1.977	1.972	(0.546)	27157	0.27415	0.27415
12	3-Chloropropionitrile	54	2.389	2.395	(0.659)	21642	0.26478	0.26478(QM)
209	Benzaldehyde	77	3.330	3.330	(0.919)	31217	0.25262	0.25262
21	Aniline	93	3.389	3.395	(0.935)	57199	0.21975	0.21975
22	Phenol	94	3.324	3.330	(0.917)	48463	0.22857	0.22857
23	bis(2-Chloroethyl)ether	93	3.413	3.419	(0.942)	41070	0.23795	0.23795
24	2-Chlorophenol	128	3.477	3.477	(0.959)	41317	0.22664	0.22664
26	1,3-Dichlorobenzene	146	3.583	3.589	(0.989)	48020	0.25071	0.25071
27	1,4-Dichlorobenzene	146	3.636	3.636	(1.003)	45941	0.24351	0.24351
28	1,2-Dichlorobenzene	146	3.742	3.742	(1.032)	45328	0.24302	0.24302
29	Benzyl Alcohol	108	3.689	3.695	(1.018)	24273	0.21737	0.21737
30	2-Methylphenol	108	3.742	3.748	(1.032)	37777	0.23205	0.23205
31	bis(2-Chloroisopropyl)ether	45	3.777	3.777	(1.042)	35198	0.22269	0.22269
37	Acetophenone	105	3.883	3.889	(1.071)	58052	0.23125	0.23125
32	N-Nitroso-di-n-propylamine	70	3.866	3.871	(1.067)	32866	0.23251	0.23251(QM)
192	4-Methylphenol	108	3.842	3.848	(1.060)	38300	0.23262	0.23262
34	Hexachloroethane	117	3.977	3.983	(1.097)	18239	0.23461	0.23461
35	Nitrobenzene	77	4.013	4.018	(0.888)	47831	0.23811	0.23811
41	Isophorone	82	4.171	4.171	(0.923)	78460	0.22081	0.22081
42	2-Nitrophenol	139	4.236	4.236	(0.938)	21016	0.21500	0.21500
43	2,4-Dimethylphenol	107	4.224	4.230	(0.935)	44988	0.23106	0.23106(QM)
44	bis(2-Chloroethoxy)methane	93	4.301	4.301	(0.952)	45304	0.23475	0.23475
46	2,4-Toluenediamene	121	5.336	5.342	(1.181)	24944	0.24080	0.24080
47	1,3,5-Trichlorobenzene	180	4.242	4.242	(0.939)	38595	0.23440	0.23440
48	2,4-Dichlorophenol	162	4.395	4.401	(0.973)	30995	0.22261	0.22261

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
49	Benzoic Acid	122	4.236	4.301	(0.938)	19783	0.59874	0.59874 (QMH)
50	1,2,4-Trichlorobenzene	180	4.466	4.471	(0.988)	37091	0.23401	0.23401
51	Naphthalene	128	4.536	4.536	(1.004)	128360	0.23785	0.23785
52	4-Chloroaniline	127	4.554	4.554	(1.008)	49380	0.21923	0.21923
56	Hexachlorobutadiene	225	4.601	4.601	(1.018)	22966	0.23765	0.23765
210	Caprolactam	113	4.783	4.813	(1.059)	9946	0.29630	0.29630
57	1,2,3-Trichlorobenzene	180	4.630	4.630	(1.025)	36583	0.24454	0.24454
59	4-Chloro-3-Methylphenol	107	4.865	4.871	(1.077)	32987	0.20403	0.20403
62	2-Methylnaphthalene	142	5.024	5.024	(1.112)	69051	0.23355	0.23355
63	1-Methylnaphthalene	142	5.101	5.101	(1.129)	81785	0.24007	0.24007
64	Hexachlorocyclopentadiene	237	5.130	5.130	(0.886)	22217	0.29249	0.29249
66	2,4,6-Trichlorophenol	196	5.213	5.218	(0.900)	21909	0.21243	0.21243
67	2,4,5-Trichlorophenol	196	5.242	5.242	(0.906)	24652	0.22018	0.22018
211	1,1'-Biphenyl	154	5.354	5.360	(0.925)	106379	0.23523	0.23523
68	1,2,3,5-Tetrachlorobenzene	216	5.130	5.136	(0.886)	37908	0.22984	0.22984
70	2-Chloronaphthalene	162	5.383	5.389	(0.930)	74760	0.23234	0.23234
73	2-Nitroaniline	65	5.442	5.442	(0.940)	22460	0.20525	0.20525
74	1,2,3,4-Tetrachlorobenzene	216	5.354	5.354	(0.925)	36225	0.23487	0.23487
76	Dimethylphthalate	163	5.548	5.554	(0.958)	91156	0.23209	0.23209
78	2,6-Dinitrotoluene	165	5.607	5.612	(0.969)	15477	0.28534	0.28534
79	Acenaphthylene	152	5.689	5.695	(0.983)	124072	0.23305	0.23305
80	1,2-Dinitrobenzene	168	5.654	5.660	(0.977)	8148	0.19873	0.19873
81	3-Nitroaniline	138	5.736	5.742	(0.991)	17964	0.19474	0.19474
82	Acenaphthene	153	5.812	5.818	(1.004)	79306	0.22850	0.22850
83	2,4-Dinitrophenol	184	5.812	5.812	(1.004)	11470	0.98184	0.98184 (Q)
85	4-Nitrophenol	109	5.818	5.824	(1.005)	9917	0.35358	0.35358 (QM)
86	Dibenzofuran	168	5.936	5.942	(1.025)	110321	0.23371	0.23371
87	2,4-Dinitrotoluene	165	5.901	5.907	(1.019)	20930	0.28575	0.28574
91	2,3,5,6-Tetrachlorophenol	232	5.983	5.983	(1.034)	18156	0.28534	0.28534
93	Diethylphthalate	149	6.054	6.060	(1.046)	91449	0.21931	0.21931
94	Fluorene	166	6.189	6.189	(1.069)	91180	0.22649	0.22649
95	4-Chlorophenyl-phenylether	204	6.171	6.171	(1.066)	44646	0.23515	0.23515
96	4-Nitroaniline	138	6.183	6.189	(1.068)	18802	0.31658	0.31658
98	4,6-Dinitro-2-methylphenol	198	6.195	6.201	(0.900)	9105	0.39926	0.39926 (QM)
99	N-Nitrosodiphenylamine	169	6.254	6.254	(0.909)	63417	0.22689	0.22689
100	1,2-Diphenylhydrazine	77	6.283	6.289	(0.913)	102011	0.22429	0.22429
106	4-Bromophenyl-phenylether	248	6.530	6.530	(0.949)	25403	0.23293	0.23293
107	Hexachlorobenzene	284	6.589	6.595	(0.957)	27732	0.23297	0.23296
212	Atrazine	200	6.612	6.618	(0.961)	15110	0.21109	0.21109
111	Pentachlorophenol	266	6.724	6.730	(0.977)	25977	0.76137	0.76137
115	Phenanthrene	178	6.901	6.907	(1.003)	135737	0.23502	0.23502
116	Anthracene	178	6.936	6.942	(1.008)	128693	0.22652	0.22652
119	Carbazole	167	7.042	7.048	(1.023)	115448	0.21534	0.21534
120	Di-n-Butylphthalate	149	7.248	7.248	(1.053)	146919	0.21731	0.21731
123	Fluoranthene	202	7.783	7.783	(1.131)	130772	0.21610	0.21610
124	Benzidine	184	7.854	7.854	(0.885)	57873	0.17292	0.17292
125	Pyrene	202	7.954	7.959	(0.897)	140396	0.21958	0.21958
131	Butylbenzylphthalate	149	8.371	8.371	(0.944)	61976	0.20631	0.20631
133	3,3'-Dimethoxybenzidine	244	8.765	8.777	(0.988)	23777	0.18291	0.18291
135	3,3'-Dichlorobenzidine	252	8.806	8.818	(0.993)	53750	0.21297	0.21297
136	Benzo(a)Anthracene	228	8.859	8.865	(0.999)	155647	0.23492	0.23492
137	Chrysene	228	8.889	8.901	(1.002)	143226	0.23354	0.23354
138	4,4'-Methylene bis(o-chloroan	231	8.806	8.812	(0.993)	22998	0.30083	0.30083
139	bis(2-ethylhexyl)Phthalate	149	8.777	8.783	(0.989)	89163	0.29041	0.29041

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
	140 Di-n-octylphthalate	149	9.353	9.359	(0.900)	121681	0.31902	0.31902
	141 Benzo(b)fluoranthene	252	9.912	9.924	(0.954)	137832	0.21178	0.21178
	142 Benzo(k)fluoranthene	252	9.942	9.953	(0.956)	152247	0.22596	0.22596
	146 Benzo(a)pyrene	252	10.318	10.336	(0.993)	132647	0.22126	0.22126
	149 Indeno(1,2,3-cd)pyrene	276	12.053	12.089	(1.160)	151906	0.22468	0.22468
	150 Dibenz(a,h)anthracene	278	12.071	12.100	(1.161)	128843	0.21357	0.21357
	151 Benzo(g,h,i)perylene	276	12.577	12.606	(1.210)	129315	0.23043	0.23043
$	154 Nitrobenzene-d5	82	4.001	4.001	(0.885)	47625	0.23438	0.23438(R)
$	155 2-Fluorobiphenyl	172	5.277	5.277	(0.912)	90716	0.23969	0.23969(R)
$	156 Terphenyl-d14	244	8.030	8.036	(0.905)	94996	0.22624	0.22624(R)
$	157 Phenol-d5	99	3.313	3.319	(0.914)	45159	0.22607	0.22607(R)
$	158 2-Fluorophenol	112	2.736	2.736	(0.755)	36181	0.23263	0.23263(R)
$	159 2,4,6-Tribromophenol	330	6.365	6.365	(1.100)	10563	0.32229	0.32229(R)
$	186 2-Chlorophenol-d4	132	3.466	3.466	(0.956)	38362	0.23086	0.23086(R)
$	187 1,2-Dichlorobenzene-d4	152	3.730	3.730	(1.029)	28050	0.23997	0.23997(R)
M	195 Cresols, total	100				76077	0.46467	0.46467
	101 Diphenylamine	169	6.254	6.254	(0.909)	63417	0.22689	0.22689

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

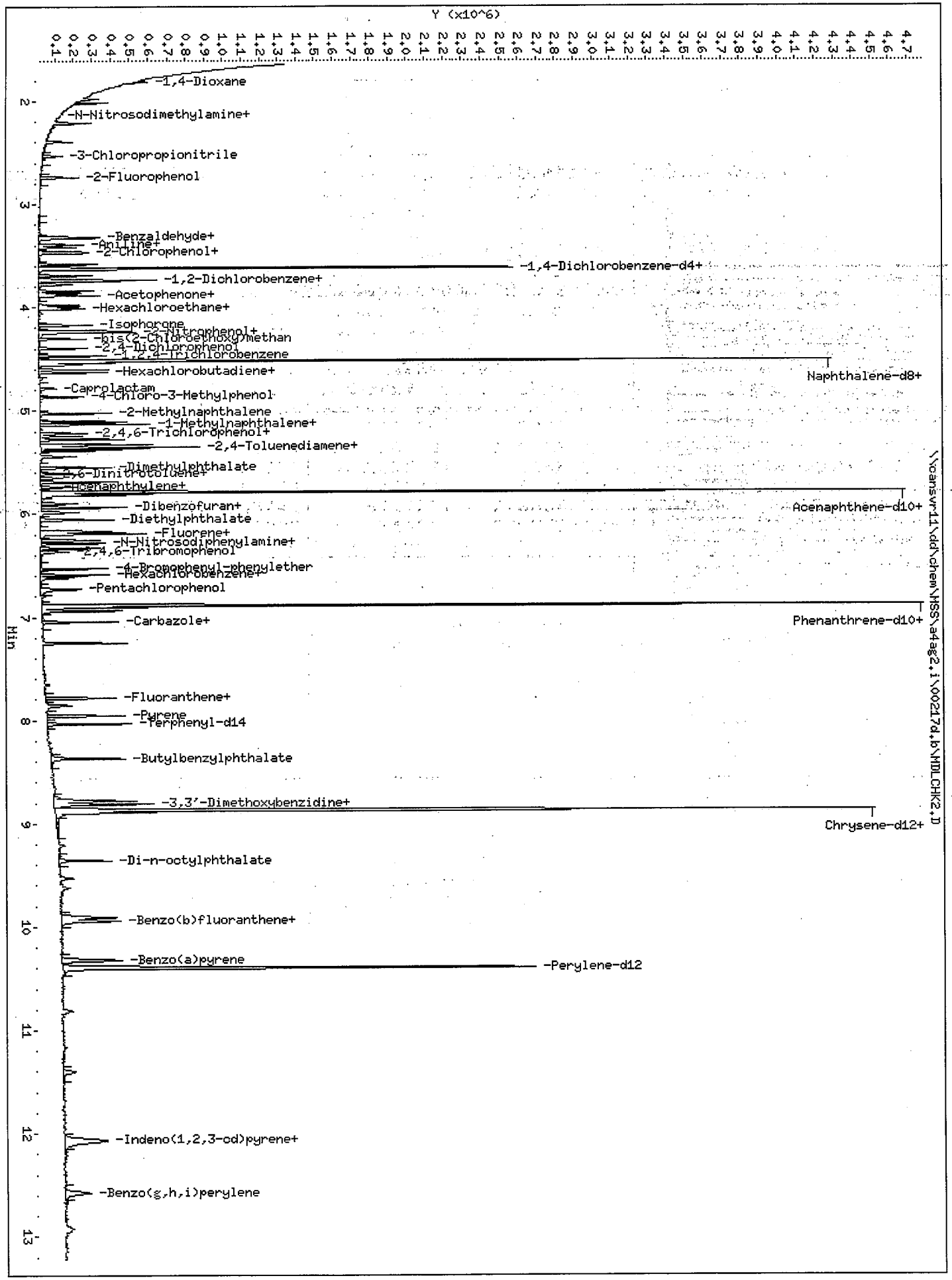
Instrument ID: a4ag2.i
Lab File ID: MDLCHK2.D
Lab Smp Id: L2
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00217d.b\8270C-625.m
Misc Info:

Calibration Date: 17-FEB-2010
Calibration Time: 14:03
Level:
Sample Type:

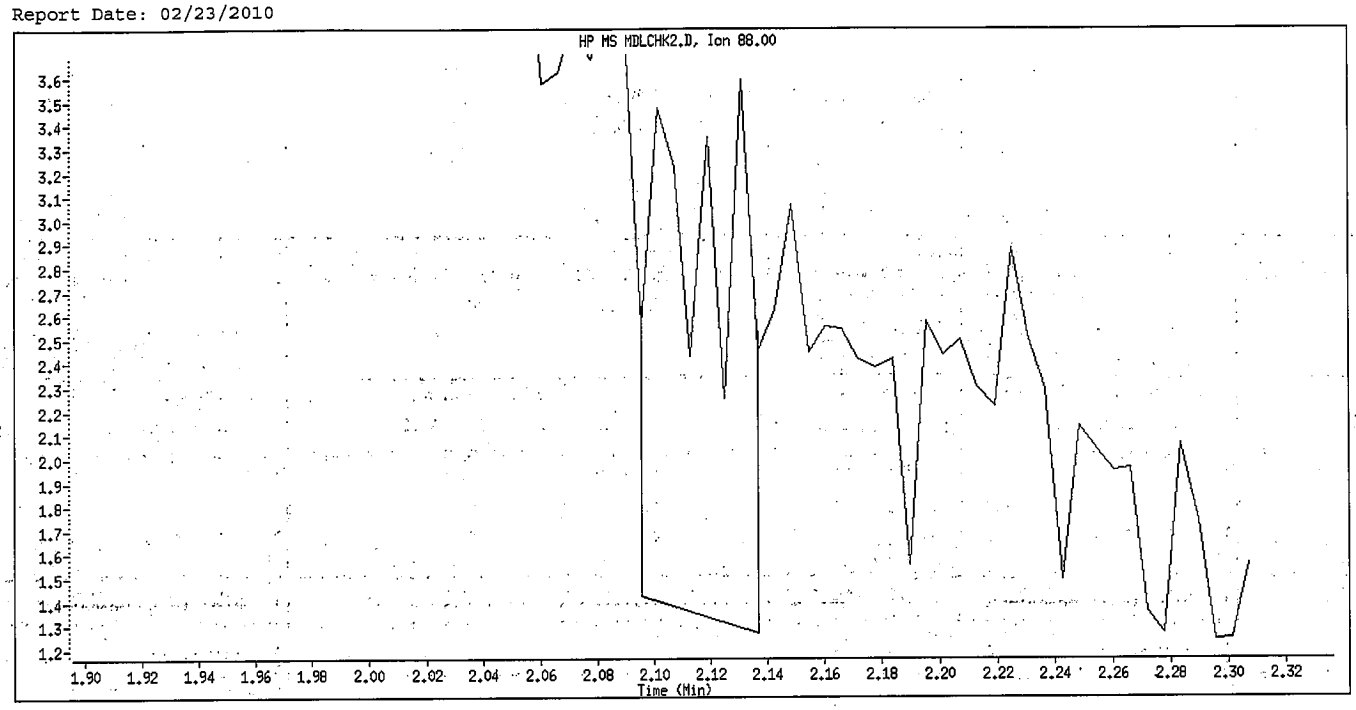
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	236450	118225	472900	292487	23.70
2 Naphthalene-d8	953497	476749	1906994	1161492	21.81
3 Acenaphthene-d10	527333	263667	1054666	644634	22.24
4 Phenanthrene-d10	896074	448037	1792148	1069052	19.30
5 Chrysene-d12	1143441	571721	2286882	1333073	16.58
6 Perylene-d12	1028807	514404	2057614	1249709	21.47

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.62	3.12	4.12	3.62	0.00
2 Naphthalene-d8	4.52	4.02	5.02	4.52	0.00
3 Acenaphthene-d10	5.79	5.29	6.29	5.79	0.00
4 Phenanthrene-d10	6.88	6.38	7.38	6.88	0.00
5 Chrysene-d12	8.88	8.38	9.38	8.87	-0.07
6 Perylene-d12	10.40	9.90	10.90	10.40	-0.06

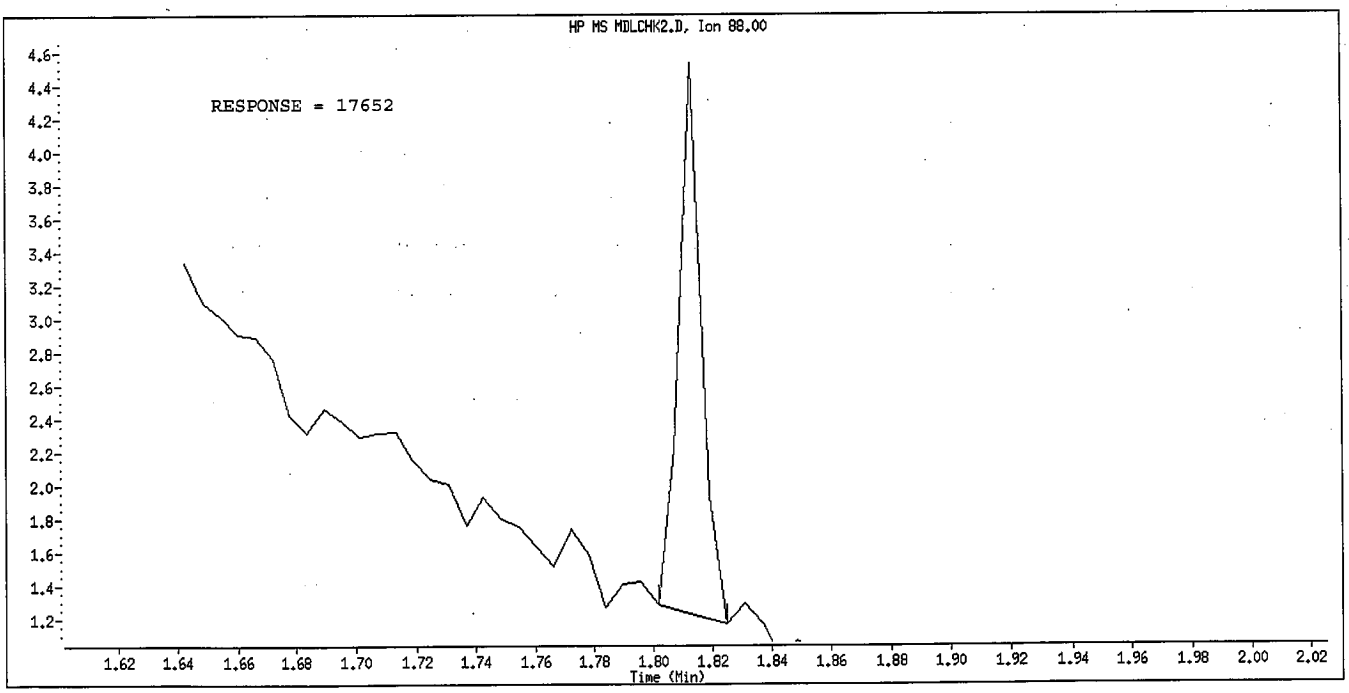
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine+
-3-Chloropropionitrile
-2-Fluorophenol
-Benzaldehyde+
-Aniline+
-2-Chlorophenol+
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-bis(2-Chloroethoxy)methan
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene+
Naphthalene-d8+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-2,4-Toluenediamene+
-Dimethylphthalate
-2,6-Dinitrotoluene+
-Acenaphthylene+
Acenaphthene-d10+
-Dibenzofuran+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
Phenanthrene-d10+
-Carbazole+
-Fluoranthene+
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
-3,3'-Dimethoxybenzidine+
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\canisvr11\dd\chem\MSS\a4ag2.i\00217d.b\MDLCHK2.D

Data File Name: MDLCHK2.D
Inj. Date and Time: 17-FEB-2010 15:15
Instrument ID: a4ag2.i
Client ID:
Compound Name: 1,4-Dioxane
CAS #: 123-91-1
Report Date: 02/23/2010



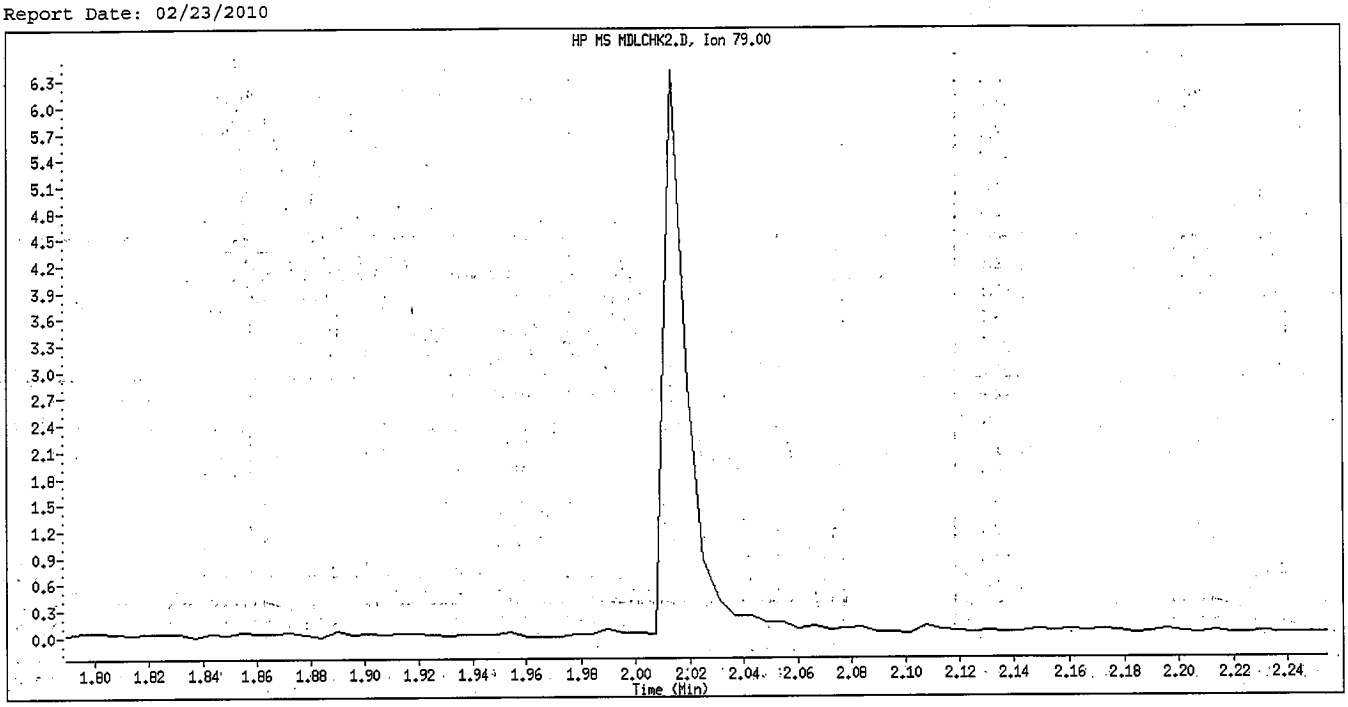
Original Integration



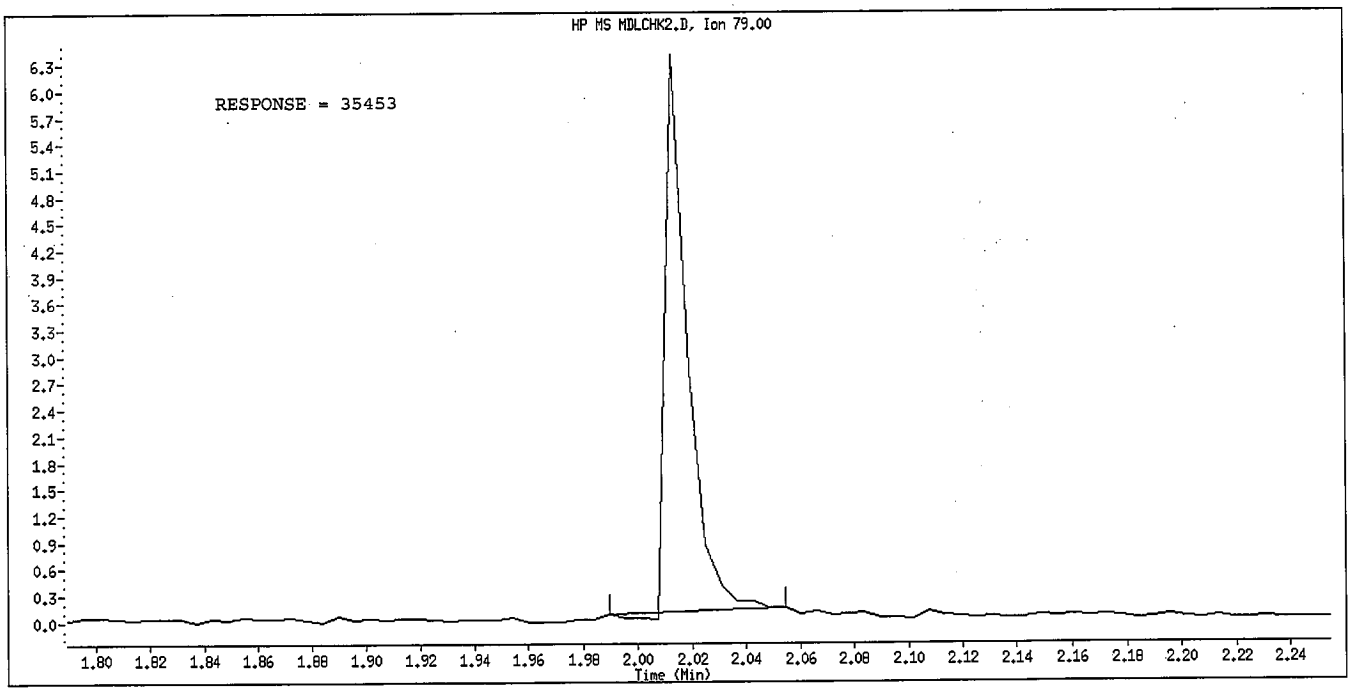
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK2.D
Inj. Date and Time: 17-FEB-2010 15:15
Instrument ID: a4ag2.i
Client ID:
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 02/23/2010



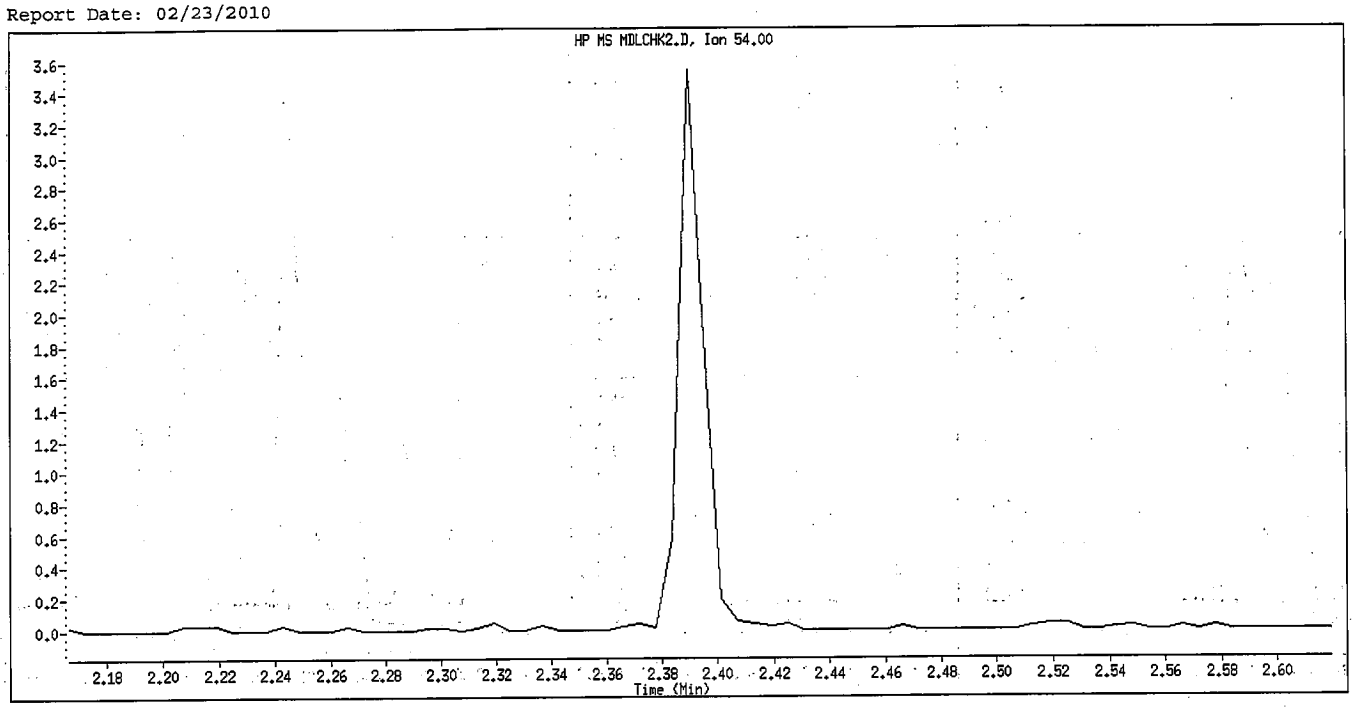
Original Integration



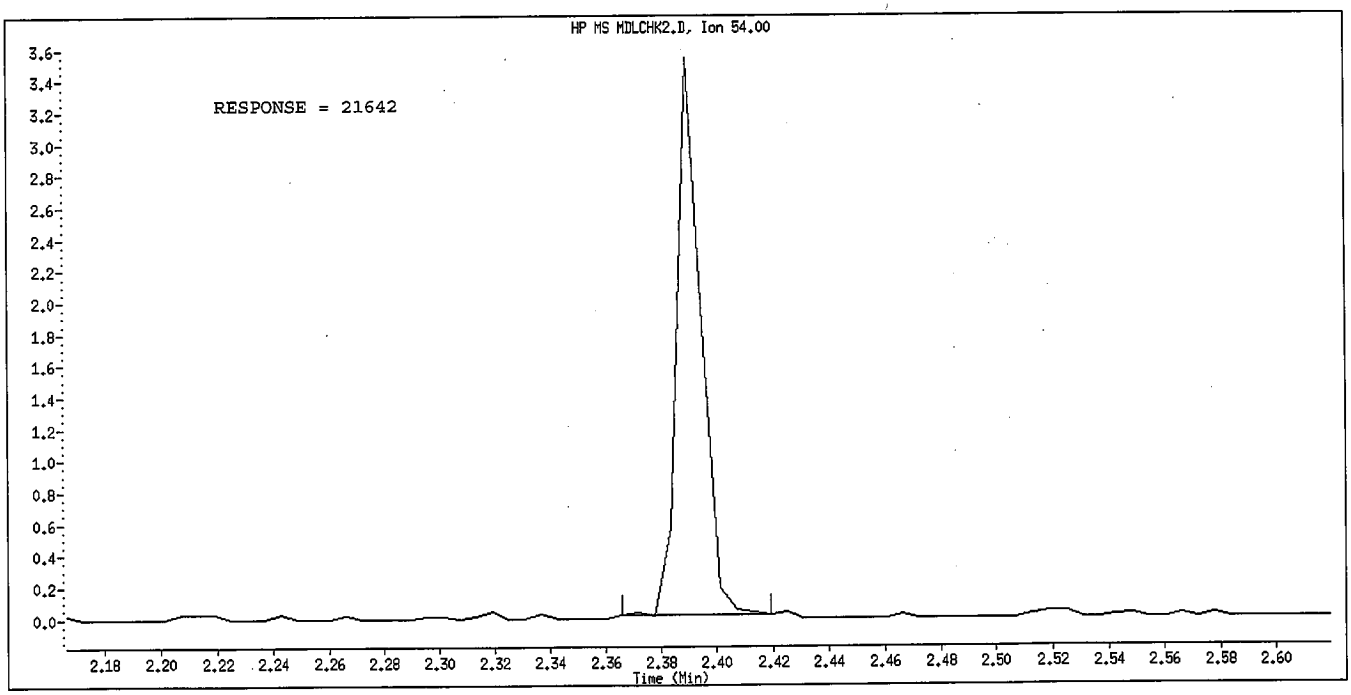
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK2.D
Inj. Date and Time: 17-FEB-2010 15:15
Instrument ID: a4ag2.i
Client ID:
Compound Name: 3-Chloropropionitrile
CAS #: 542-76-7
Report Date: 02/23/2010



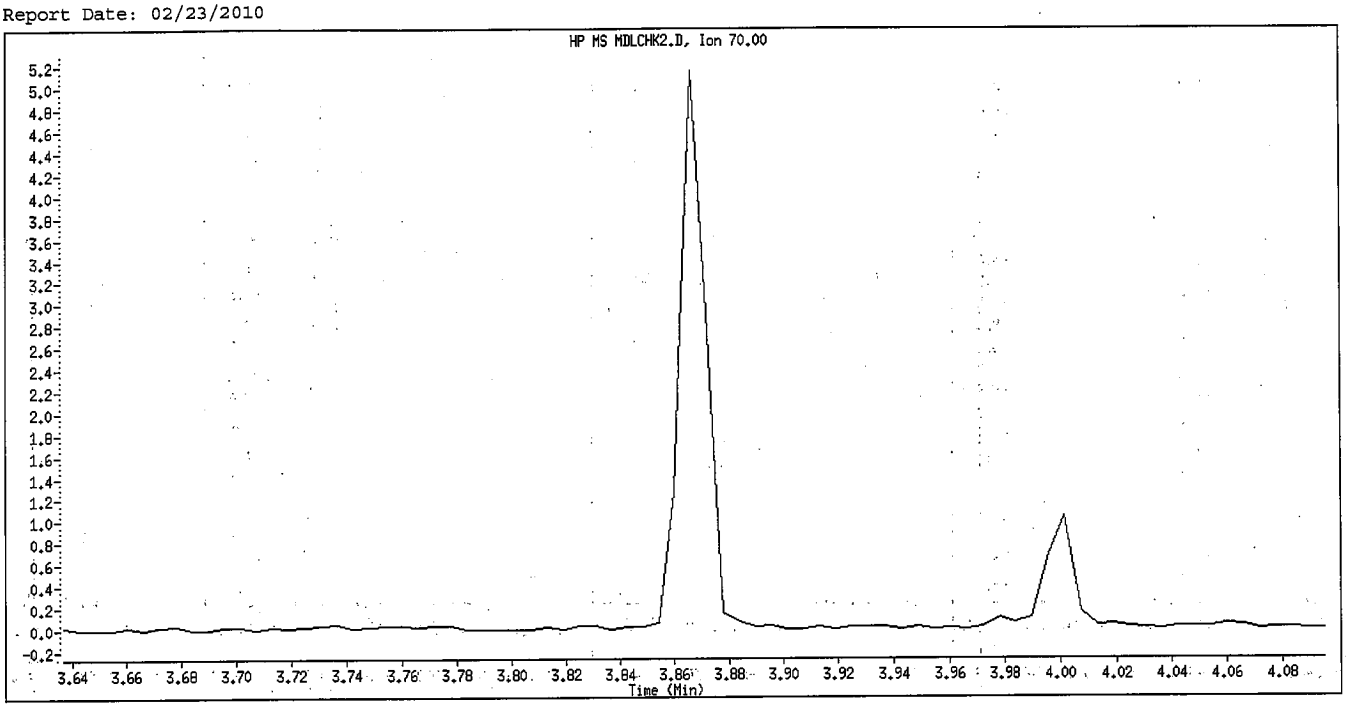
Original Integration



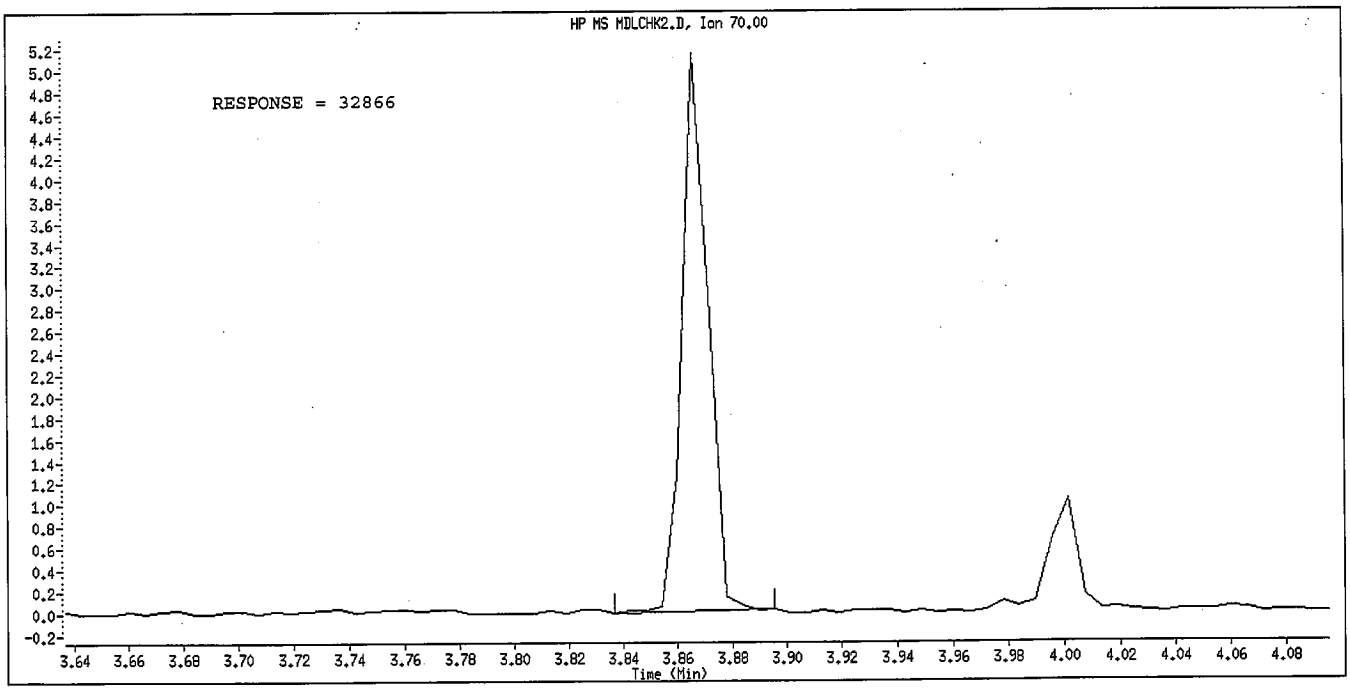
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK2.D
Inj. Date and Time: 17-FEB-2010 15:15
Instrument ID: a4ag2.i
Client ID:
Compound Name: N-Nitroso-di-n-propylamine
CAS #: 621-64-7
Report Date: 02/23/2010



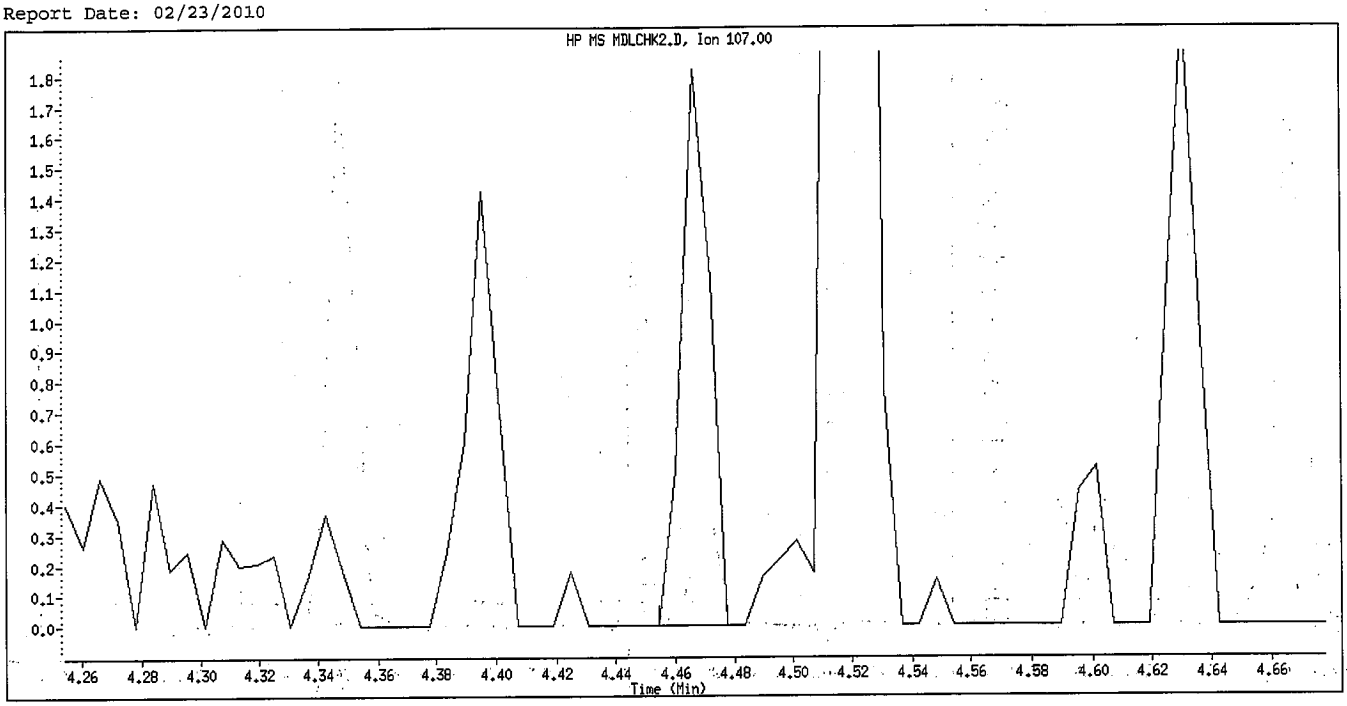
Original Integration



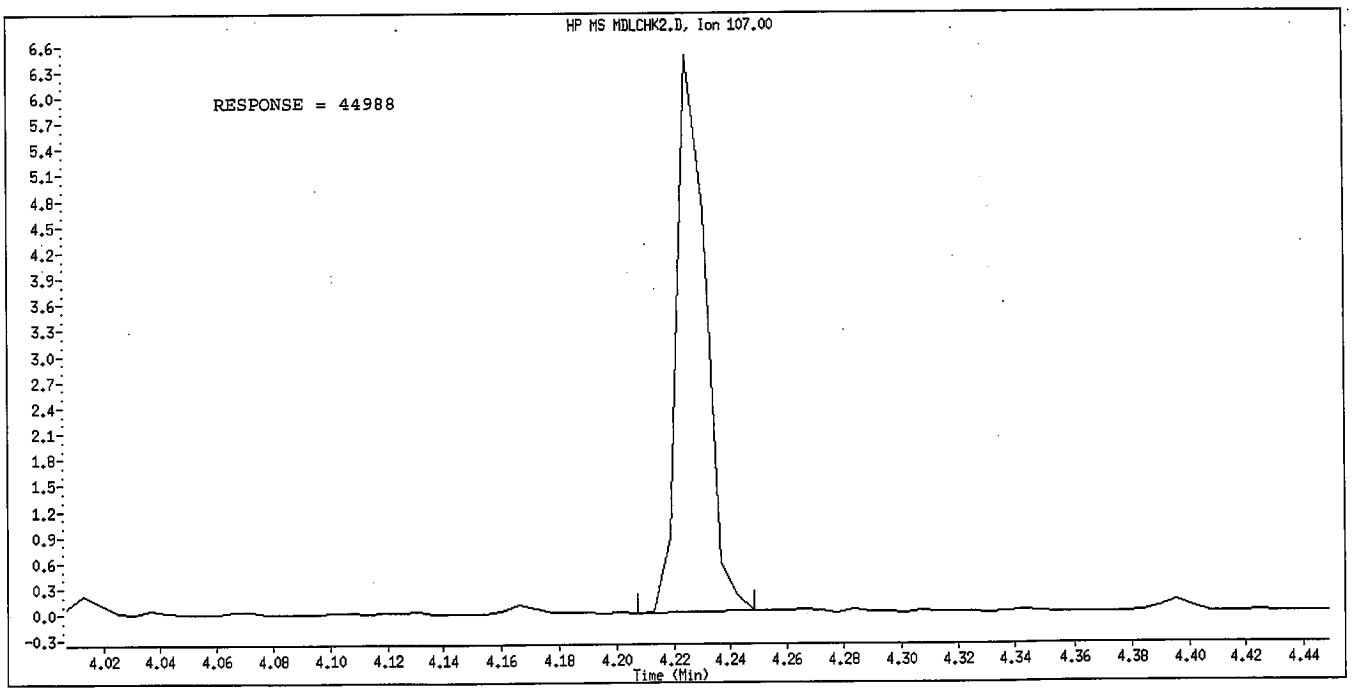
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK2.D
Inj. Date and Time: 17-FEB-2010 15:15
Instrument ID: a4ag2.i
Client ID:
Compound Name: 2,4-Dimethylphenol
CAS #: 105-67-9
Report Date: 02/23/2010



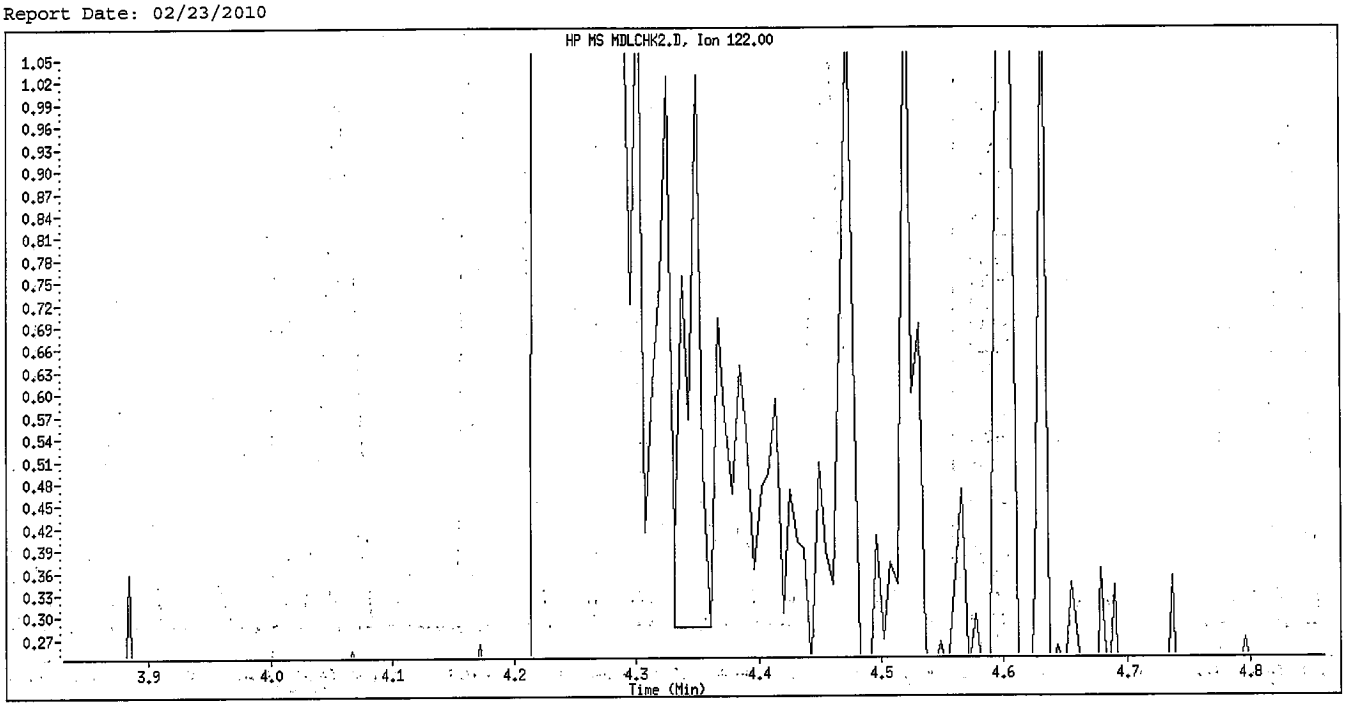
Original Integration



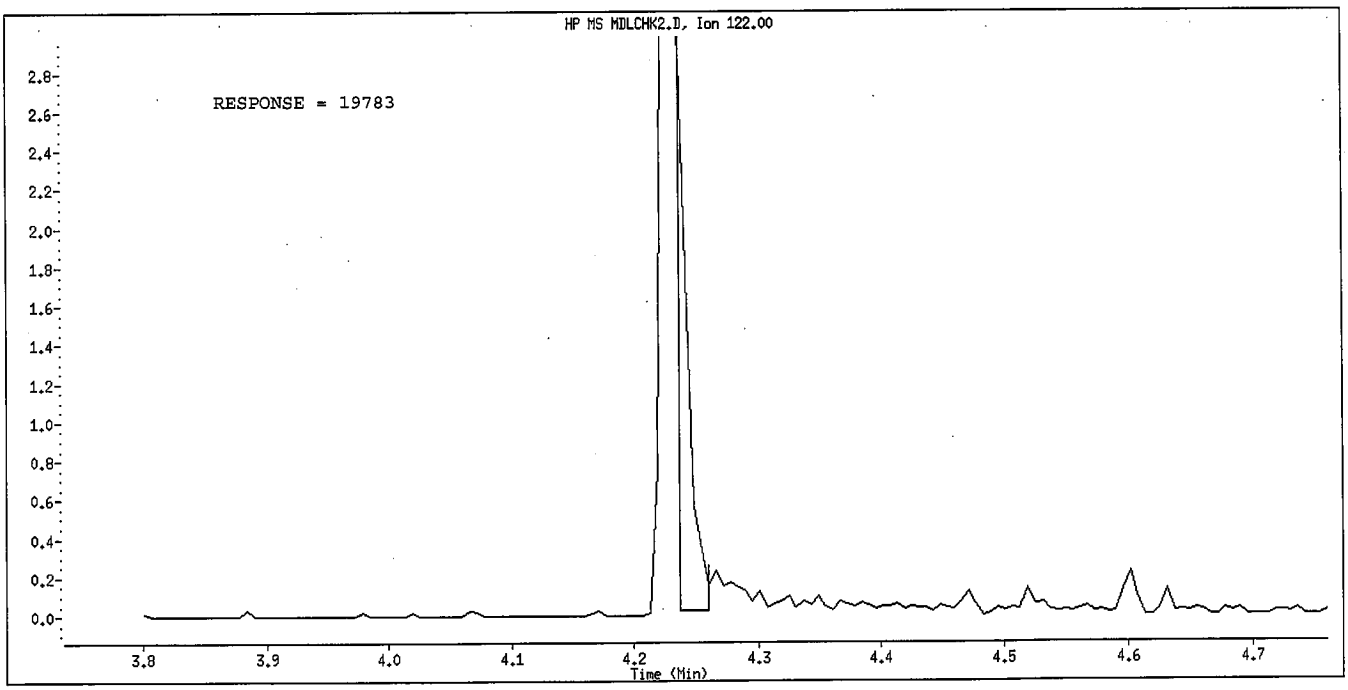
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK2.D
Inj. Date and Time: 17-FEB-2010 15:15
Instrument ID: a4ag2.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 02/23/2010



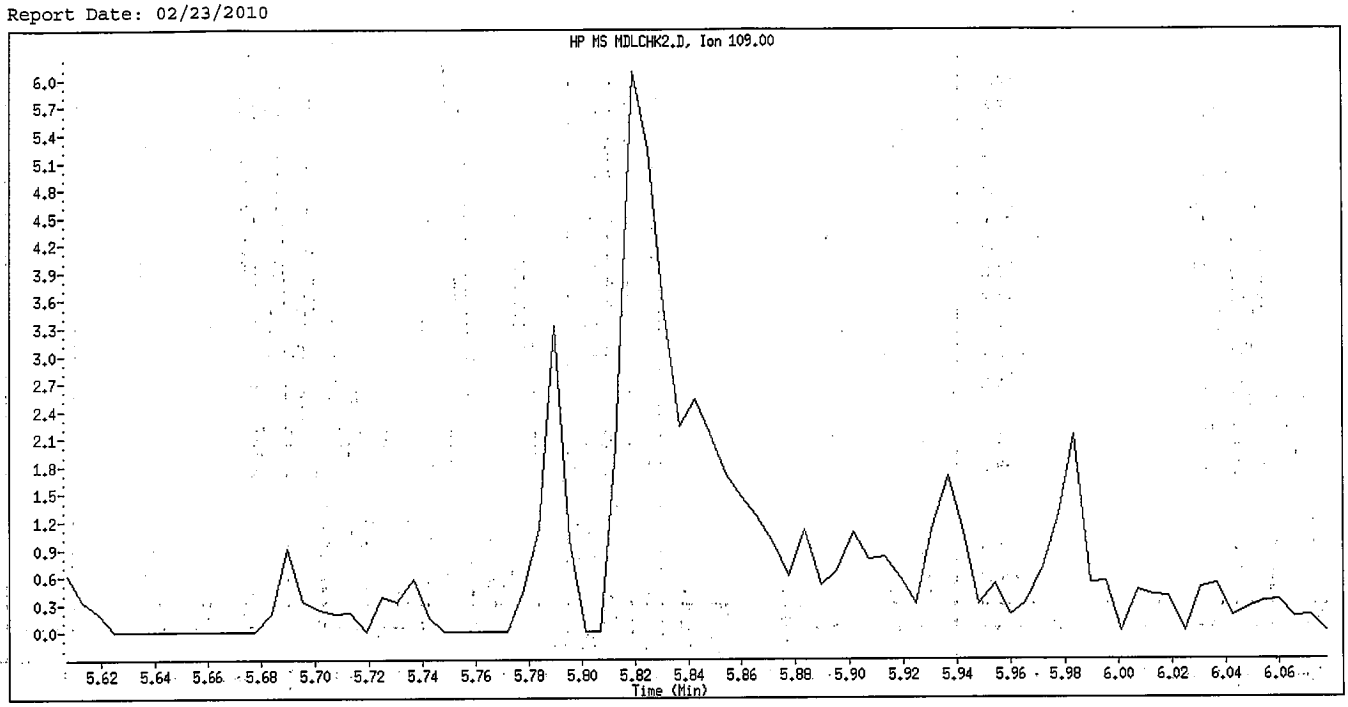
Original Integration



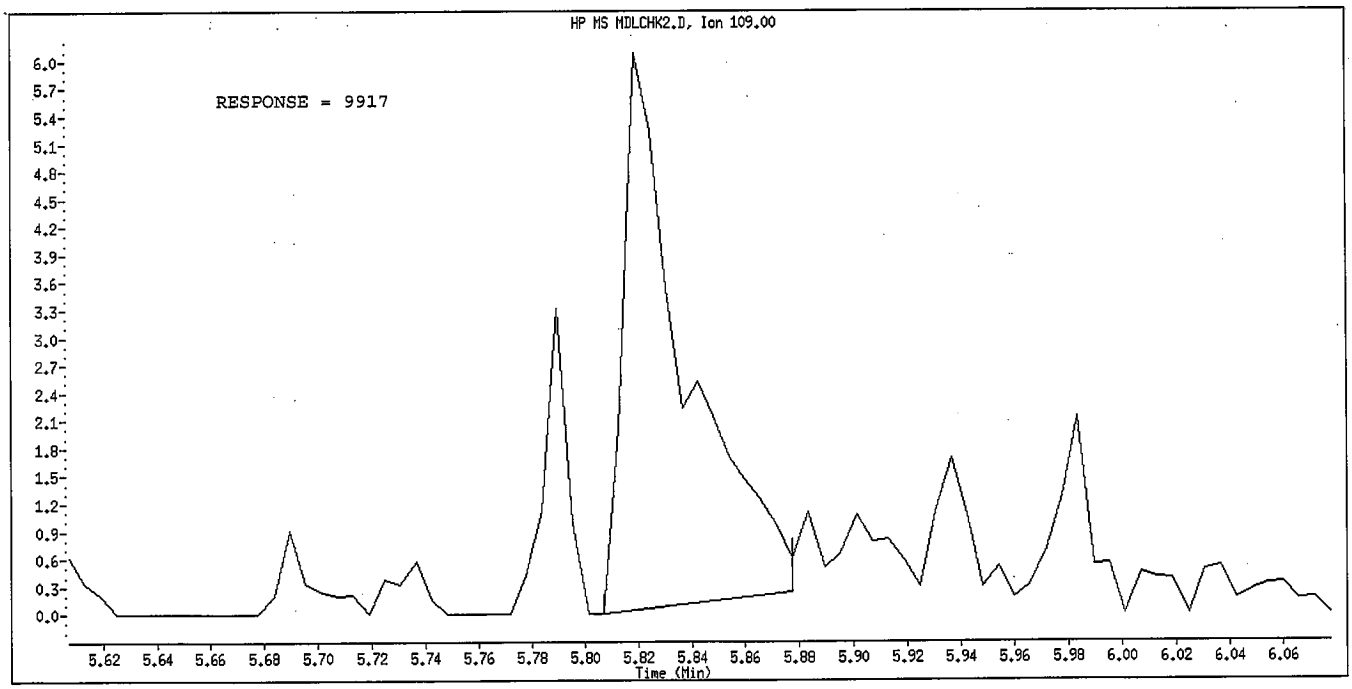
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Poor Chromatography

Data File Name: MDLCHK2.D
Inj. Date and Time: 17-FEB-2010 15:15
Instrument ID: a4ag2.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 02/23/2010



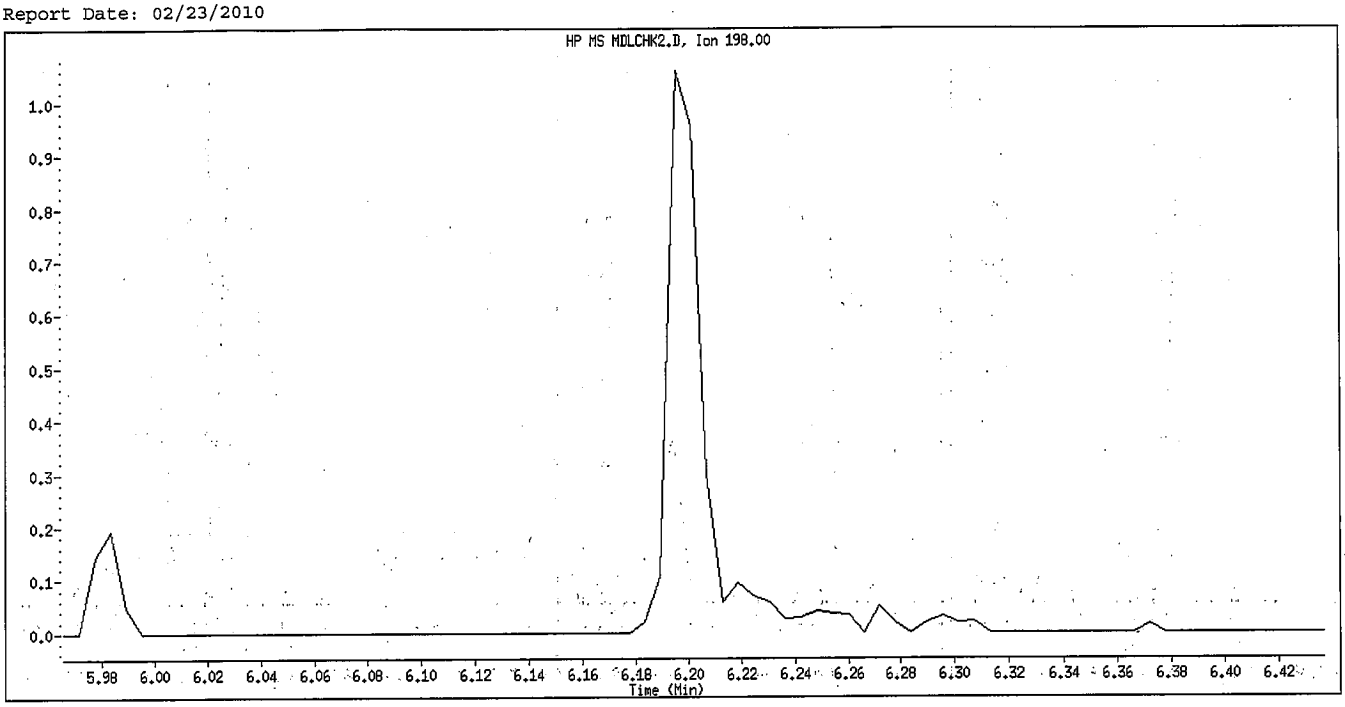
Original Integration



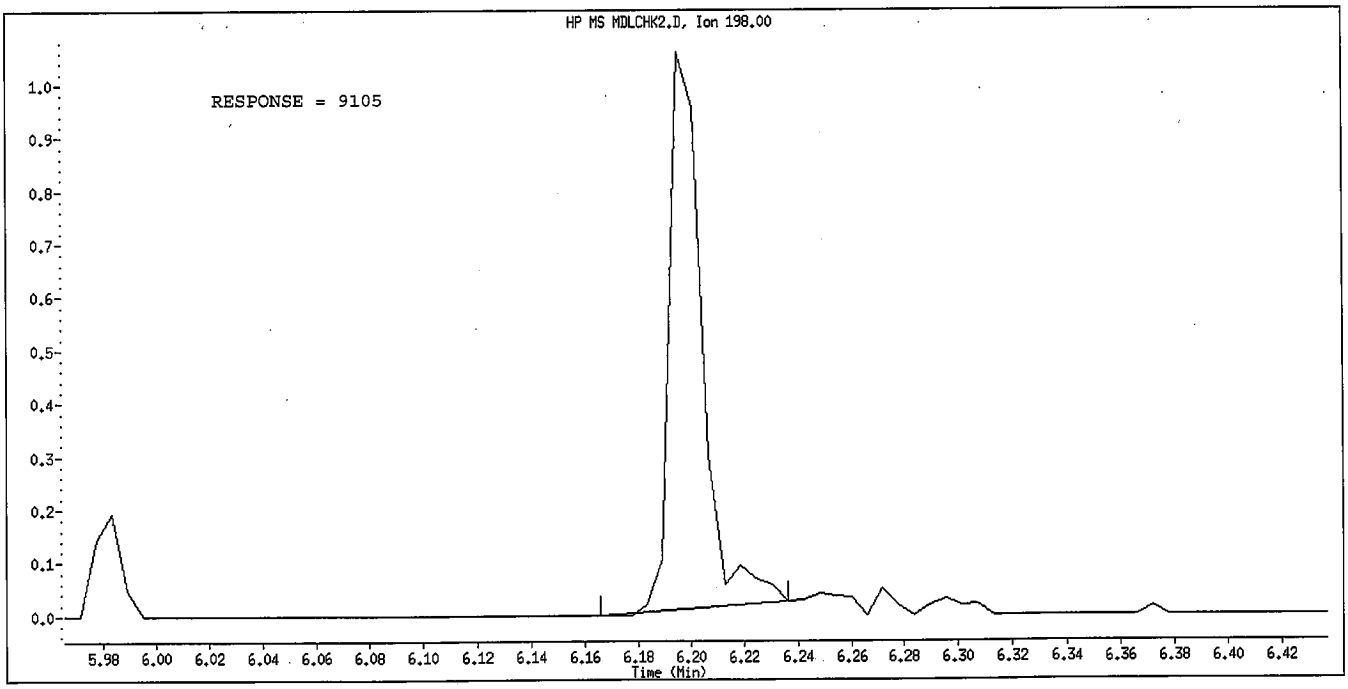
Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

Data File Name: MDLCHK2.D
Inj. Date and Time: 17-FEB-2010 15:15
Instrument ID: a4ag2.i
Client ID:
Compound Name: 4,6-Dinitro-2-methylphenol
CAS #: 534-52-1
Report Date: 02/23/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

Data File: \\CANSVR11\dd\chem\MSS\a4ag2.i\00226A.b\2DF0226.D

Date : 26-FEB-2010 12:30

Client ID:

Sample Info: 2DF0226,00226A.b,DFTPP390.M

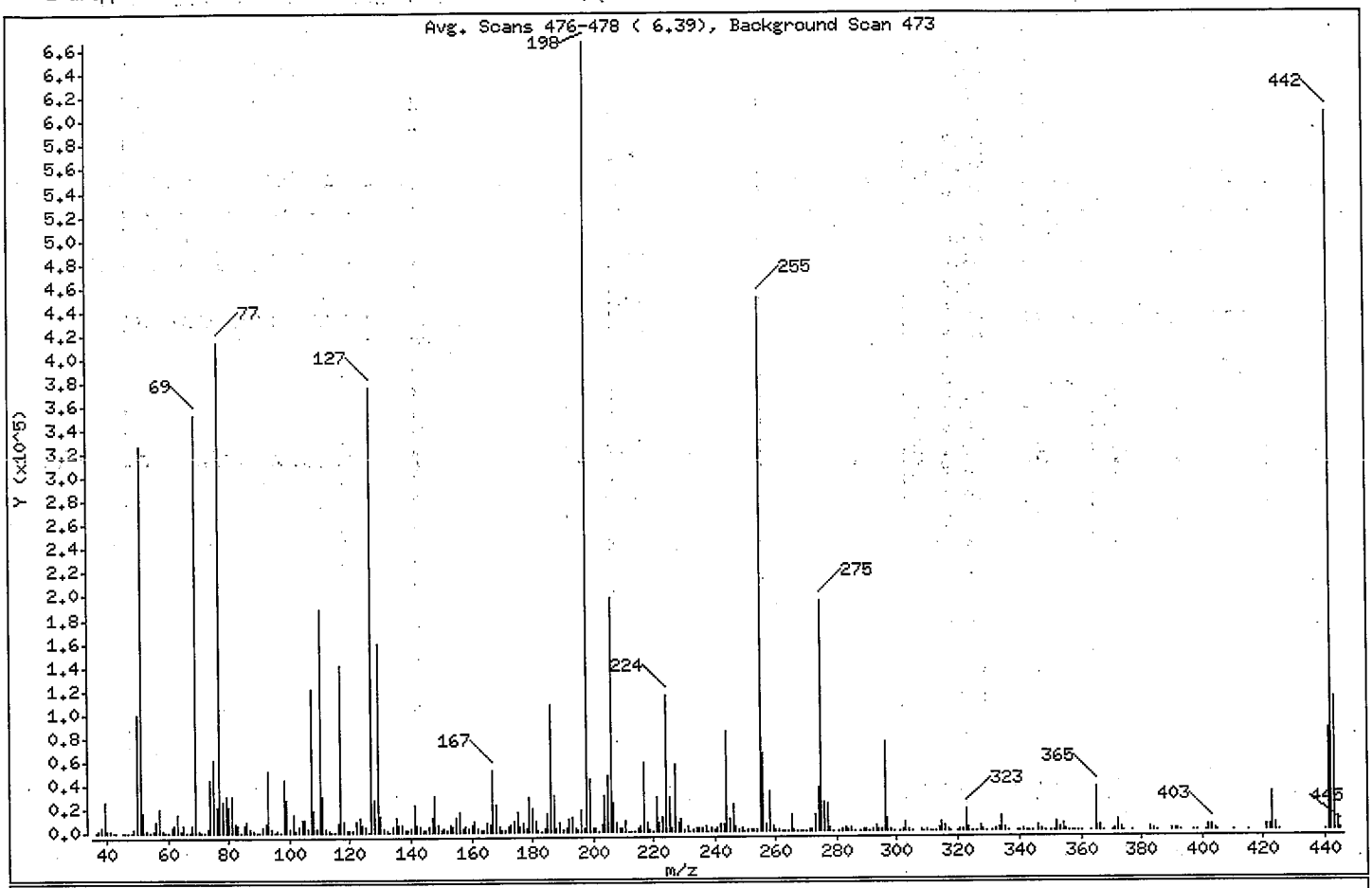
Instrument: a4ag2.i

Operator: 046900

Column diameter: 2.00

Column phase:

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	48.95
68	Less than 2.00% of mass 69	0.91 (1.73)
69	Mass 69 relative abundance	52.76
70	Less than 2.00% of mass 69	0.28 (0.54)
127	25.00 - 75.00% of mass 198	56.28
197	Less than 1.00% of mass 198	0.35
199	5.00 - 9.00% of mass 198	6.77
275	10.00 - 30.00% of mass 198	29.19
365	Greater than 0.75% of mass 198	5.43
441	Present, but less than mass 443	12.97
442	40.00 - 110.00% of mass 198	90.77
443	15.00 - 24.00% of mass 442	16.75 (18.45)

Data File: \\CANSVR11\dd\chem\MSS\a4ag2.i\00226A.b\2DF0226.D

Date : 26-FEB-2010 12:30

Client ID:

Instrument: a4ag2.i

Sample Info: 2DF0226,00226A.b,DFTPP390.M

Operator: 046900

Column phase:

Column diameter: 2.00

Data File: 2DF0226.D

Spectrum: Avg. Scans 476-478 (6.39), Background Scan 473

Location of Maximum: 198.00

Number of points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	618	125.00	5112	213.00	610	304.00	1978
37.00	1685	126.00	573	214.00	234	305.00	419
38.00	5339	127.00	375040	215.00	2889	308.00	1053
39.00	26080	128.00	27760	216.00	4915	309.00	682
40.00	796	129.00	159744	217.00	58824	310.00	860
41.00	901	130.00	13723	218.00	7711	311.00	101
42.00	180	131.00	2955	219.00	1629	312.00	323
43.00	273	132.00	1558	220.00	376	313.00	595
45.00	397	133.00	666	221.00	29392	314.00	3794
46.00	81	134.00	4782	222.00	7657	315.00	8221
47.00	132	135.00	12860	223.00	12006	316.00	4688
48.00	376	136.00	5408	224.00	114512	317.00	864
49.00	3227	137.00	6273	225.00	29160	318.00	56
50.00	99000	138.00	1575	226.00	3038	320.00	227
51.00	326208	139.00	1405	227.00	57136	321.00	1700
52.00	17216	140.00	2471	228.00	7850	322.00	912
53.00	981	141.00	22800	229.00	10219	323.00	17704
54.00	96	142.00	6849	230.00	1466	324.00	3510
55.00	1976	143.00	5151	231.00	3837	325.00	403
56.00	9401	144.00	1100	232.00	555	326.00	597
57.00	20184	145.00	1413	233.00	1122	327.00	4391
58.00	1234	146.00	4708	234.00	3516	328.00	2256
59.00	595	147.00	11553	235.00	3606	329.00	117
60.00	497	148.00	30040	236.00	3036	331.00	132
61.00	4222	149.00	5911	237.00	4006	332.00	1578
62.00	6210	150.00	1252	238.00	562	333.00	2315
63.00	14563	151.00	2442	239.00	2642	334.00	12946
64.00	2006	152.00	1347	240.00	1779	335.00	3586
65.00	6500	153.00	6769	241.00	2688	336.00	290
66.00	252	154.00	4387	242.00	6542	339.00	431
67.00	476	155.00	12462	243.00	6516	340.00	376
68.00	6090	156.00	16920	244.00	84808	341.00	2273
69.00	351616	157.00	2793	245.00	11448	342.00	748
70.00	1885	158.00	3901	246.00	22320	343.00	50
71.00	422	159.00	3502	247.00	3862	344.00	184

Data File: \\CANSVR11\dd\chem\MSS\a4ag2.i\00226A.b\2DF0226.D

Date : 26-FEB-2010 12:30

Client ID:

Instrument: a4ag2.i

Sample Info: 2DF0226,00226A.b,DFTPP390.M

Operator: 046900

Column phase:

Column diameter: 2.00

Data File: 2DF0226.D

Spectrum: Avg. Scans 476-478 (6.39), Background Scan 473

Location of Maximum: 198.00

Number of points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	223	160.00	6192	248.00	895	346.00	5219
73.00	3651	161.00	8990	249.00	3598	347.00	870
74.00	44768	162.00	2638	250.00	520	348.00	53
75.00	61512	163.00	1074	251.00	794	350.00	121
76.00	22152	164.00	1064	252.00	1078	351.00	545
77.00	414272	165.00	8022	253.00	2170	352.00	7138
78.00	26776	166.00	6465	254.00	1291	353.00	3824
79.00	30584	167.00	52008	255.00	450112	354.00	5529
80.00	21856	168.00	22360	256.00	66224	355.00	1214
81.00	30704	169.00	3994	257.00	5512	356.00	139
82.00	7859	170.00	1318	258.00	34216	357.00	95
83.00	5874	171.00	1986	259.00	5195	358.00	146
84.00	297	172.00	4107	260.00	827	359.00	496
85.00	6108	173.00	5537	261.00	790	360.00	88
86.00	8511	174.00	9249	262.00	60	363.00	50
87.00	3515	175.00	16292	263.00	410	365.00	36200
88.00	1657	176.00	3959	264.00	748	366.00	5276
89.00	631	177.00	7602	265.00	13943	367.00	334
90.00	180	178.00	2592	266.00	1660	370.00	530
91.00	5341	179.00	29480	267.00	366	371.00	1568
92.00	6995	180.00	19848	268.00	175	372.00	9589
93.00	52696	181.00	9167	269.00	83	373.00	2553
94.00	3384	182.00	1591	270.00	626	374.00	348
95.00	533	183.00	562	271.00	1211	377.00	257
96.00	2155	184.00	2396	272.00	1265	383.00	2472
97.00	699	185.00	15036	273.00	13966	384.00	870
98.00	45088	186.00	107096	274.00	37456	385.00	227
99.00	27608	187.00	31336	275.00	194560	390.00	1311
100.00	3782	188.00	3026	276.00	25200	391.00	780
101.00	15467	189.00	7602	277.00	22776	392.00	820
102.00	967	190.00	1384	278.00	3328	393.00	97
103.00	5047	191.00	3256	279.00	706	397.00	80
104.00	10768	192.00	10998	281.00	329	398.00	103
105.00	10432	193.00	12225	282.00	771	401.00	689
106.00	3264	194.00	2913	283.00	2541	402.00	4082

Data File: \\CANSVR11\dd\chem\MSS\a4ag2.i\00226A.b\2DF0226.D

Date : 26-FEB-2010 12:30

Client ID:

Instrument: a4ag2.i

Sample Info: 2DF0226,00226A.b,DFTPP390.M

Operator: 046900

Column phase:

Column diameter: 2.00

Data File: 2DF0226.D

Spectrum: Avg. Scans 476-478 (6.39), Background Scan 473

Location of Maximum: 198.00

Number of points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	121584	195.00	1309	284.00	1687	403.00	4690
108.00	19088	196.00	18872	285.00	3155	404.00	2239
109.00	3119	197.00	2360	286.00	504	405.00	244
110.00	188352	198.00	666432	288.00	232	410.00	140
111.00	30160	199.00	45128	289.00	885	415.00	178
112.00	3773	200.00	3093	290.00	862	421.00	4650
113.00	1571	201.00	2442	291.00	532	422.00	3926
114.00	360	202.00	629	292.00	834	423.00	31664
115.00	555	203.00	6084	293.00	4850	424.00	6021
116.00	7037	204.00	30672	294.00	962	425.00	556
117.00	141120	205.00	47864	295.00	1169	440.00	73
118.00	9899	206.00	197952	296.00	75216	441.00	86416
119.00	821	207.00	23920	297.00	10666	442.00	604928
120.00	1539	208.00	7369	298.00	846	443.00	111608
121.00	863	209.00	2437	299.00	58	444.00	10032
122.00	8593	210.00	3251	301.00	728	445.00	887
123.00	12915	211.00	8537	302.00	1280		
124.00	6416	212.00	573	303.00	7063		

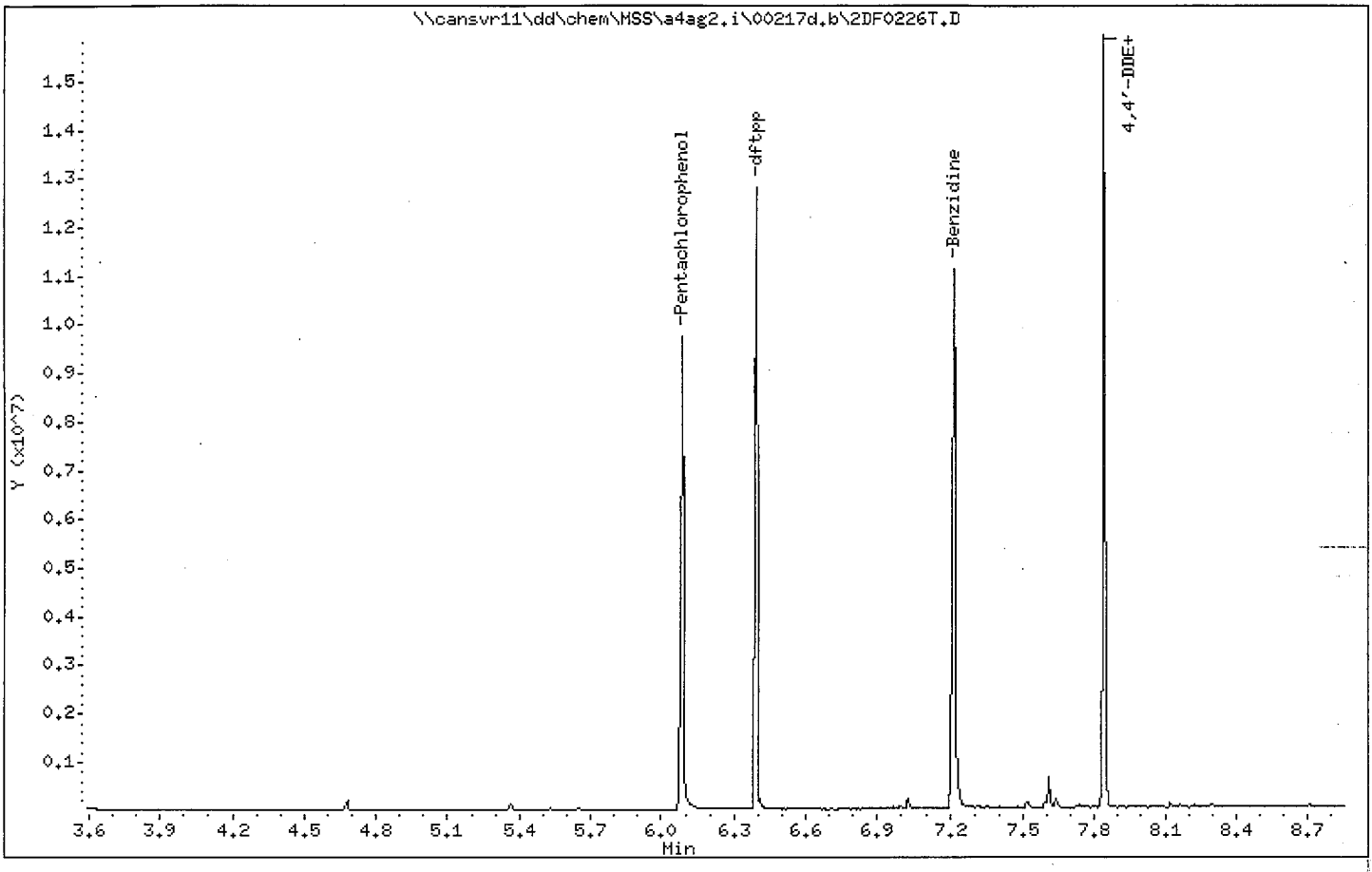
Date : 26-FEB-2010 12:30

Client ID: Instrument: a4ag2.i

Sample Info: 2DF0226,00226A.b,DFTPP390.M

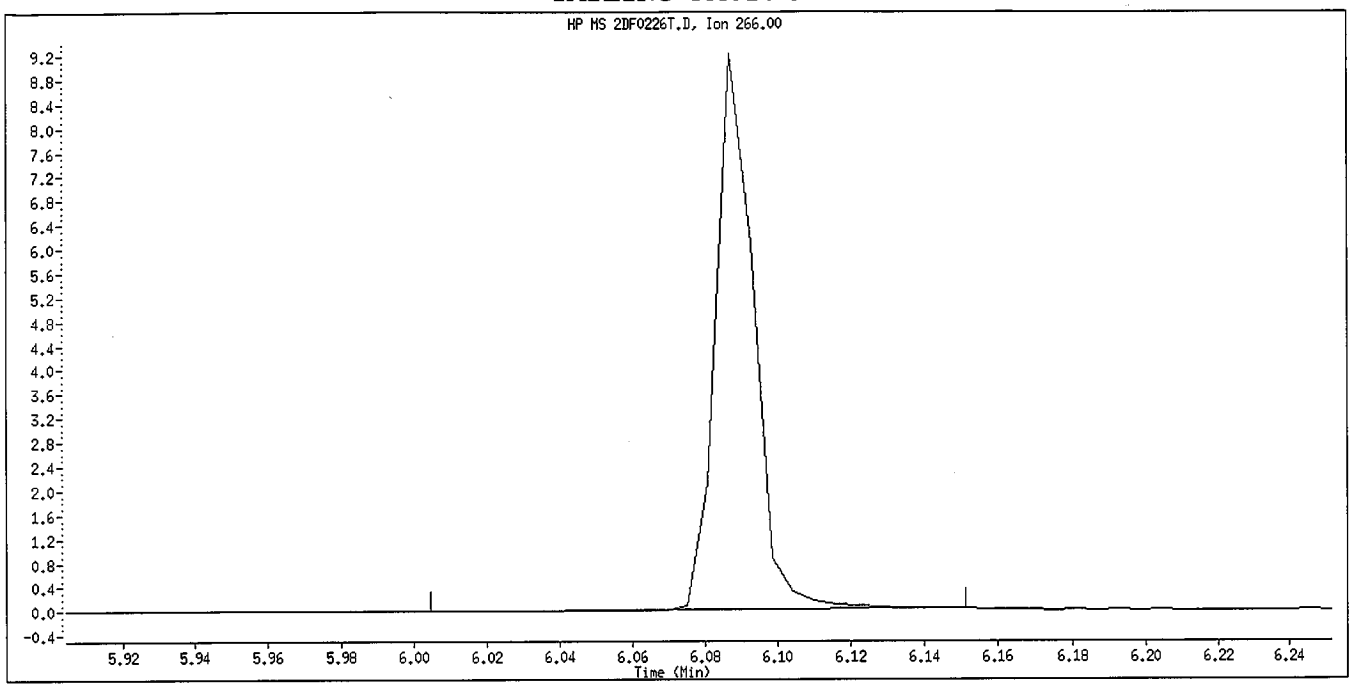
Volume Injected (uL): 1.0 Operator: 046900

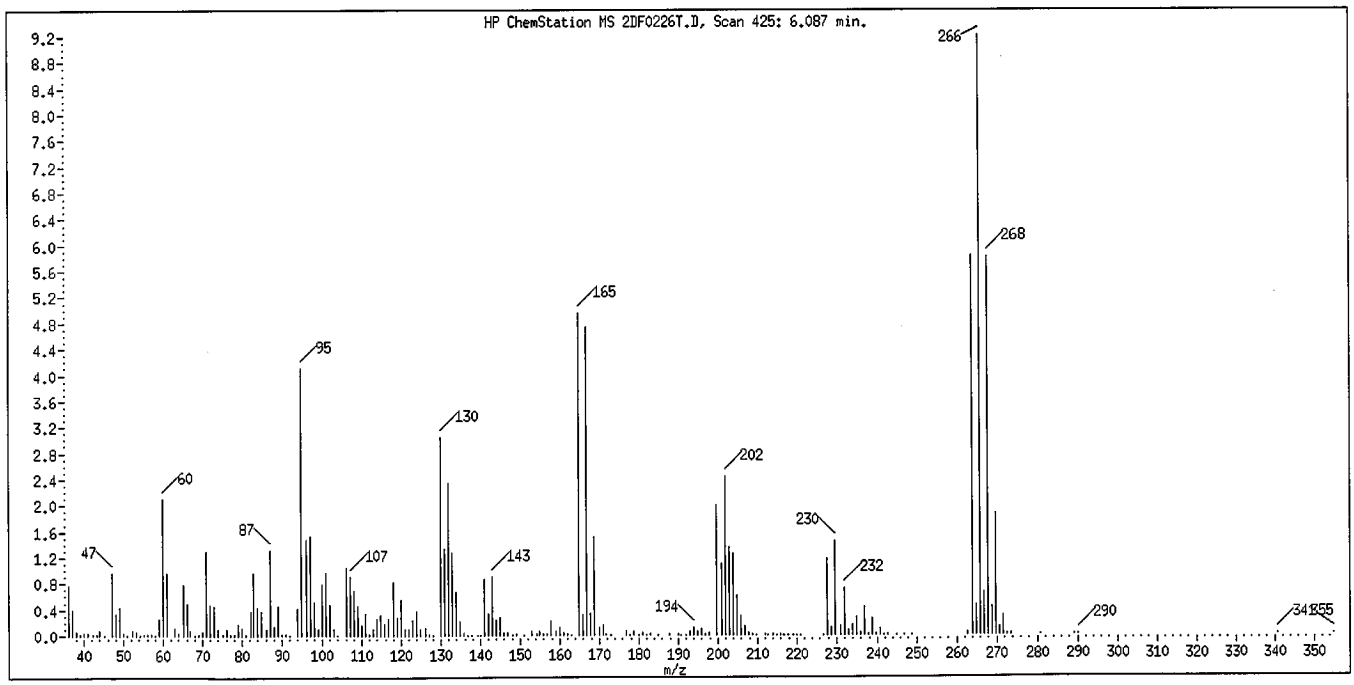
Column phase: Column diameter: 2.00



Data File: 2DF0226T.D
Inj Date: 26-FEB-2010 12:30
Instrument ID: a4ag2.i
Compound Name: Pentachlorophenol
Operator Name: 046900
Report Date: 02/26/2010

TAILING FACTOR

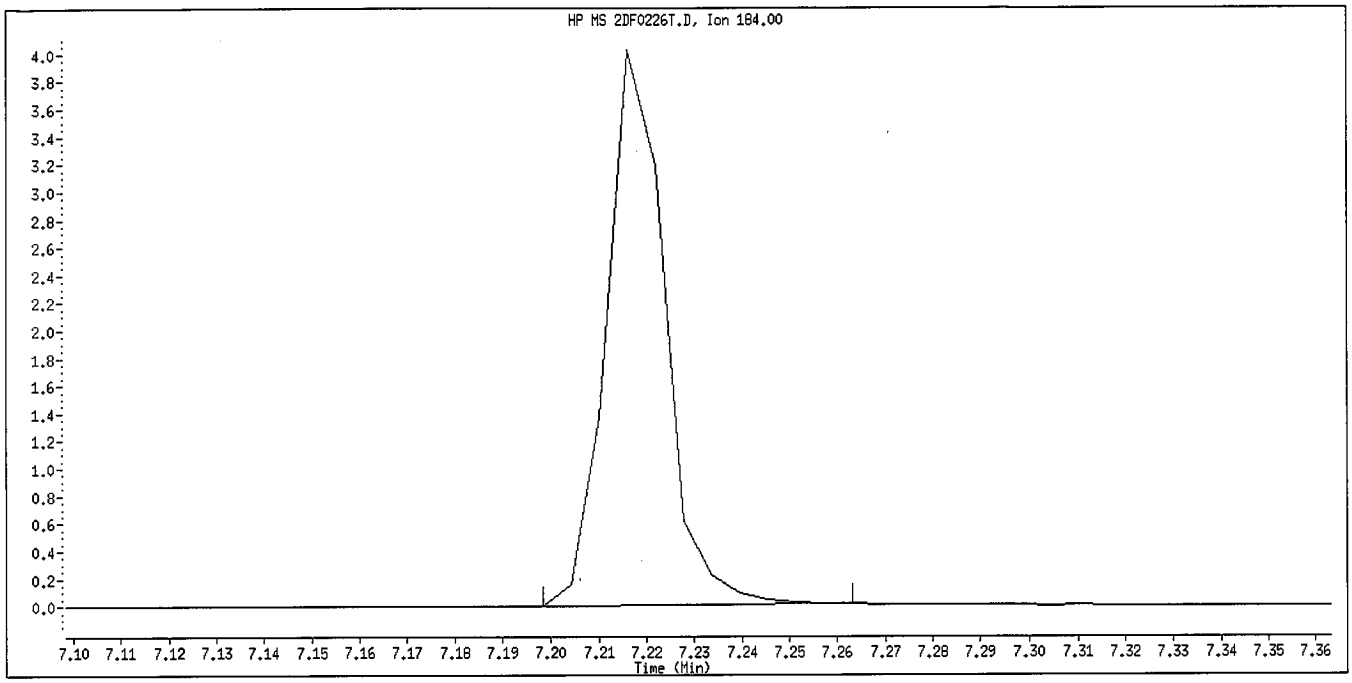


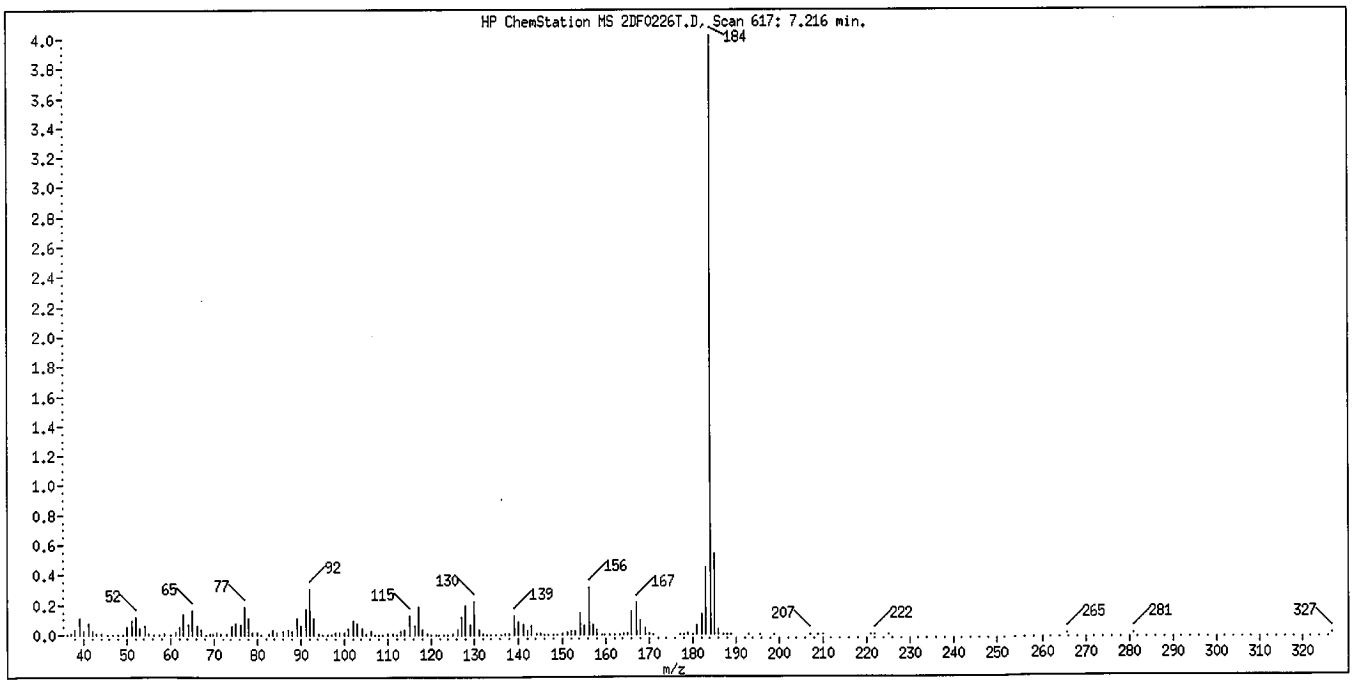


Tailing Factor = 1.26 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.077451 T2 = 6.0867 T3 = 6.098387

Data File: 2DF0226T.D
Inj Date: 26-FEB-2010 12:30
Instrument ID: a4ag2.i
Compound Name: Benzidine
Operator Name: 046900
Report Date: 02/26/2010

TAILING FACTOR

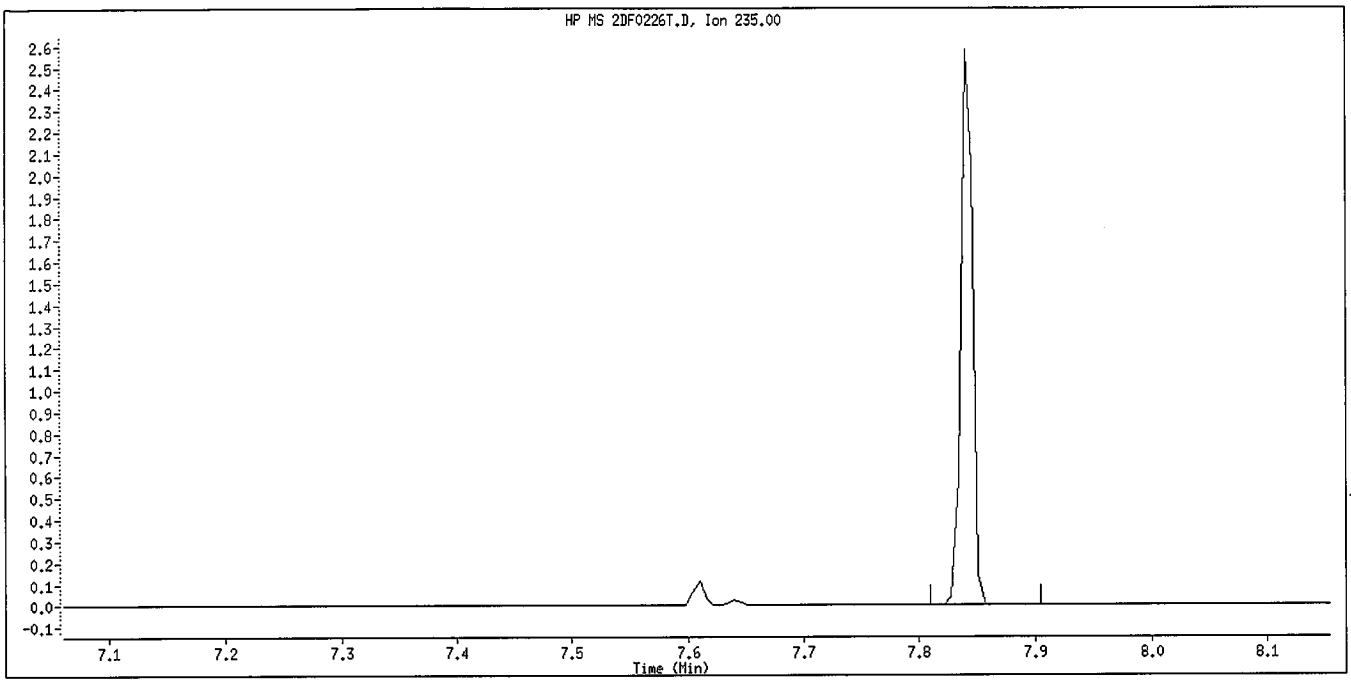




Tailing Factor = 1.4 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 7.205492 T2 = 7.21605 T3 = 7.230837

Data File: 2DF0226T.D
Inj Date: 26-FEB-2010 12:30
Instrument ID: a4ag2.i
Compound Name: 4,4'-DDT
Operator Name: 046900
Report Date: 02/26/2010

DEGRADATION REPORT



Degradation = 3.49% Good
Acceptance Criteria 0 - 20 %
DDT Area = 1898516
DDE Area = 68704
DDD Area = 0

Data File: \\CANSVR11\dd\chem\MSS\a4ag2.i\00301A.b\2DF0301.D

Date : 01-MAR-2010 07:27

Client ID:

Instrument: a4ag2.i

Sample Info: 2DF0301,00301A,b,DFTPP390,M

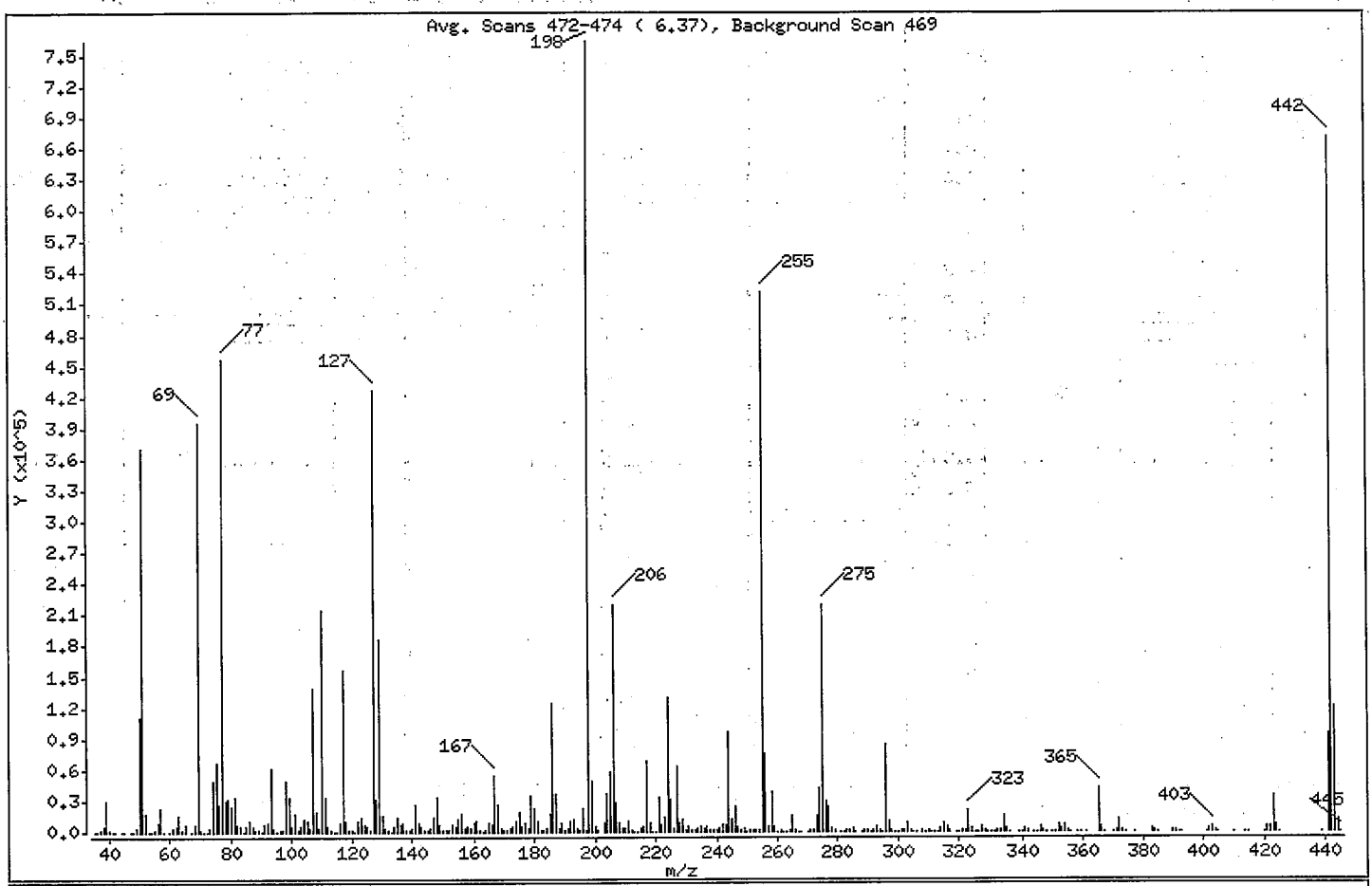
Operator: 046900

Column phase:

Column diameter: 2.00

1 dftpp

OKmw 3/2/10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	48.47
68	Less than 2.00% of mass 69	0.87 (1.68)
69	Mass 69 relative abundance	51.73
70	Less than 2.00% of mass 69	0.32 (0.63)
127	25.00 - 75.00% of mass 198	55.78
197	Less than 1.00% of mass 198	0.21
199	5.00 - 9.00% of mass 198	6.53
275	10.00 - 30.00% of mass 198	28.69
365	Greater than 0.75% of mass 198	5.40
441	Present, but less than mass 443	12.52
442	40.00 - 110.00% of mass 198	87.76
443	15.00 - 24.00% of mass 442	15.93 (18.15)

Date : 01-MAR-2010 07:27

Client ID:

Instrument: a4ag2.i

Sample Info: 2DF0301,00301A.b,DFTPP390.M

Operator: 046900

Column phase:

Column diameter: 2.00

Data File: 2DF0301.D
Spectrum: Avg. Scans 472-474 (6.37), Background Scan 469
Location of Maximum: 198.00
Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	205	126.00	1977	214.00	240	304.00	2167
36.00	164	127.00	425920	215.00	2849	305.00	60
37.00	2541	128.00	31528	216.00	5077	306.00	94
38.00	5667	129.00	185536	217.00	67720	308.00	1235
39.00	29008	130.00	15984	218.00	7961	309.00	583
40.00	969	131.00	3248	219.00	608	310.00	1028
41.00	690	132.00	1221	220.00	800	311.00	258
42.00	184	133.00	474	221.00	33872	312.00	143
44.00	98	134.00	5024	222.00	7120	313.00	840
45.00	357	135.00	14328	223.00	13593	314.00	3769
47.00	31	136.00	6329	224.00	129864	315.00	9501
48.00	567	137.00	8143	225.00	32080	316.00	4592
49.00	3611	138.00	1751	226.00	3198	317.00	984
50.00	110768	139.00	1212	227.00	62328	319.00	133
51.00	370112	140.00	2947	228.00	9013	320.00	354
52.00	17936	141.00	25632	229.00	12697	321.00	2570
53.00	463	142.00	8127	230.00	1722	322.00	951
54.00	130	143.00	5425	231.00	4809	323.00	21296
55.00	1554	144.00	1336	232.00	1239	324.00	4350
56.00	9453	145.00	1390	233.00	1022	325.00	343
57.00	22288	146.00	4063	234.00	3742	326.00	845
58.00	720	147.00	13419	235.00	4867	327.00	4894
60.00	96	148.00	34128	236.00	3415	328.00	2149
61.00	4349	149.00	6154	237.00	4576	329.00	428
62.00	5952	150.00	1656	238.00	927	330.00	51
63.00	16164	151.00	2555	239.00	2503	331.00	177
64.00	2300	152.00	1967	240.00	2068	332.00	2144
65.00	6935	153.00	7746	241.00	2892	333.00	2306
67.00	509	154.00	4680	242.00	7031	334.00	15543
68.00	6644	155.00	12951	243.00	7476	335.00	3753
69.00	395008	156.00	18400	244.00	97248	336.00	637
70.00	2477	157.00	3311	245.00	12028	339.00	312
71.00	299	158.00	4924	246.00	24448	340.00	478
72.00	74	159.00	3567	247.00	4673	341.00	2960
73.00	3491	160.00	7936	248.00	1209	342.00	947

Date : 01-MAR-2010 07:27

Client ID:

Instrument: a4ag2.i

Sample Info: 2DF0301,00301A.b,DFTPP390.M

Operator: 046900

Column phase:

Column diameter: 2.00

Data File: 2DF0301.D
Spectrum: Avg. Scans 472-474 (6.37), Background Scan 469
Location of Maximum: 198.00
Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	49416	161.00	10335	249.00	4015	344.00	62
75.00	67408	162.00	2594	250.00	616	345.00	118
76.00	26304	163.00	477	251.00	956	346.00	6059
77.00	456768	164.00	1059	252.00	1101	347.00	1124
78.00	30536	165.00	9237	253.00	2156	348.00	63
79.00	31808	166.00	7295	254.00	1397	350.00	132
80.00	24168	167.00	53672	255.00	521472	351.00	294
81.00	33464	168.00	25536	256.00	74760	352.00	7359
82.00	7645	169.00	3804	257.00	5578	353.00	4170
83.00	5479	170.00	1610	258.00	37936	354.00	7489
84.00	83	171.00	1786	259.00	5599	355.00	1584
85.00	5548	172.00	4214	260.00	789	356.00	218
86.00	9844	173.00	5777	261.00	884	358.00	160
87.00	4749	174.00	10757	262.00	292	359.00	399
88.00	1730	175.00	19944	263.00	375	361.00	57
89.00	1154	176.00	4543	264.00	1081	365.00	41256
90.00	233	177.00	9182	265.00	16004	366.00	5484
91.00	6894	178.00	2890	266.00	2552	367.00	381
92.00	8197	179.00	35040	267.00	291	370.00	645
93.00	60864	180.00	22504	268.00	259	371.00	2085
94.00	3530	181.00	10620	270.00	749	372.00	11495
95.00	859	182.00	1878	271.00	1173	373.00	2565
96.00	2017	183.00	953	272.00	1731	374.00	512
97.00	1328	184.00	2845	273.00	15575	377.00	356
98.00	48768	185.00	16840	274.00	42816	383.00	2821
99.00	32680	186.00	124240	275.00	219072	384.00	907
100.00	5757	187.00	36696	276.00	29992	385.00	379
101.00	17264	188.00	3810	277.00	24072	390.00	1101
102.00	891	189.00	9026	278.00	3827	391.00	885
103.00	5277	190.00	1624	279.00	945	392.00	742
104.00	11926	191.00	4076	281.00	541	393.00	57
105.00	10383	192.00	10041	282.00	613	401.00	702
106.00	3488	193.00	12636	283.00	2494	402.00	3877
107.00	138688	194.00	2856	284.00	1965	403.00	5586
108.00	20056	195.00	1111	285.00	4239	404.00	2457

Date : 01-MAR-2010 07:27

Client ID:

Instrument: a4ag2.i

Sample Info: 2DF0301,00301A.b,DFTPP390.M

Operator: 046900

Column phase:

Column diameter: 2.00

Data File: 2DF0301.D
Spectrum: Avg. Scans 472-474 (6.37), Background Scan 469
Location of Maximum: 198.00
Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
109.00	3907	196.00	22584	286.00	830	405.00	359
110.00	213888	197.00	1621	288.00	518	410.00	159
111.00	33872	198.00	763584	289.00	1036	414.00	57
112.00	4827	199.00	49856	290.00	1023	415.00	256
113.00	1368	200.00	4419	291.00	576	420.00	50
114.00	604	201.00	2056	292.00	1104	421.00	4784
115.00	90	203.00	8085	293.00	5441	422.00	4771
116.00	8989	204.00	36608	294.00	1321	423.00	34984
117.00	156032	205.00	57400	295.00	556	424.00	7190
118.00	10689	206.00	219264	296.00	85080	425.00	829
119.00	1173	207.00	28312	297.00	11136	439.00	161
120.00	2131	208.00	9553	298.00	896	441.00	95608
121.00	781	209.00	3032	299.00	53	442.00	670144
122.00	10091	210.00	2873	300.00	113	443.00	121664
123.00	14620	211.00	9723	301.00	953	444.00	11827
124.00	6941	212.00	1363	302.00	1284	445.00	750
125.00	5404	213.00	656	303.00	9271		

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00217d.b\2DF0301T.D

Date : 01-MAR-2010 07:27

Client ID:

Instrument: a4ag2.i

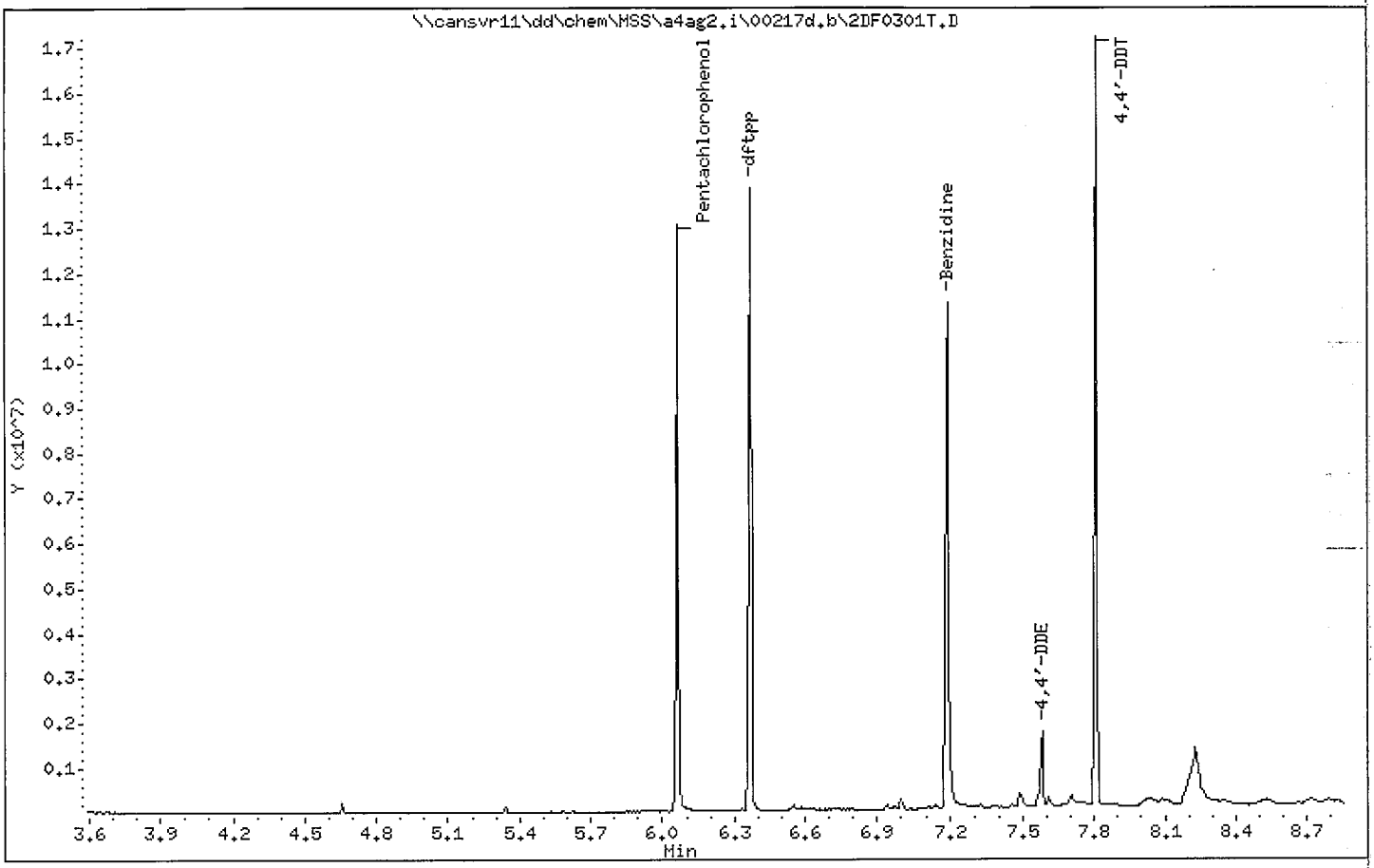
Sample Info: 2DF0301,00301A.b,DFTPP390.M

Volume Injected (uL): 1.0

Operator: 046900

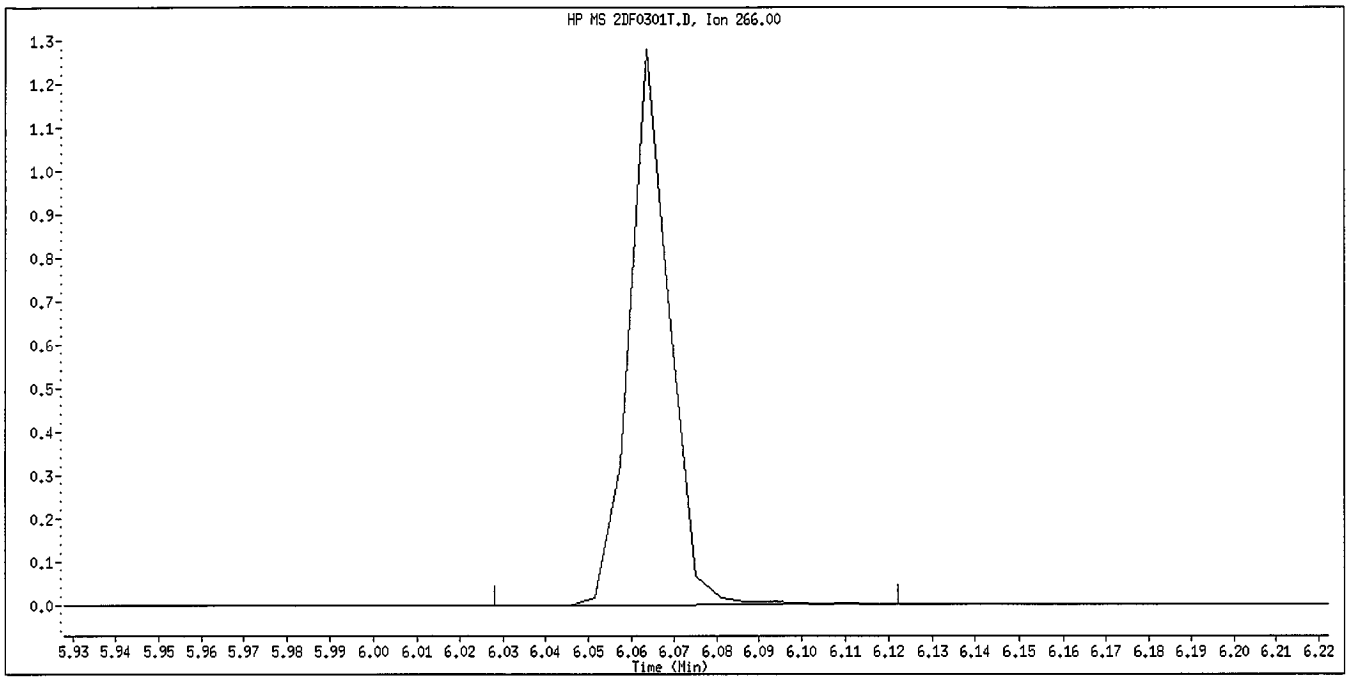
Column phase:

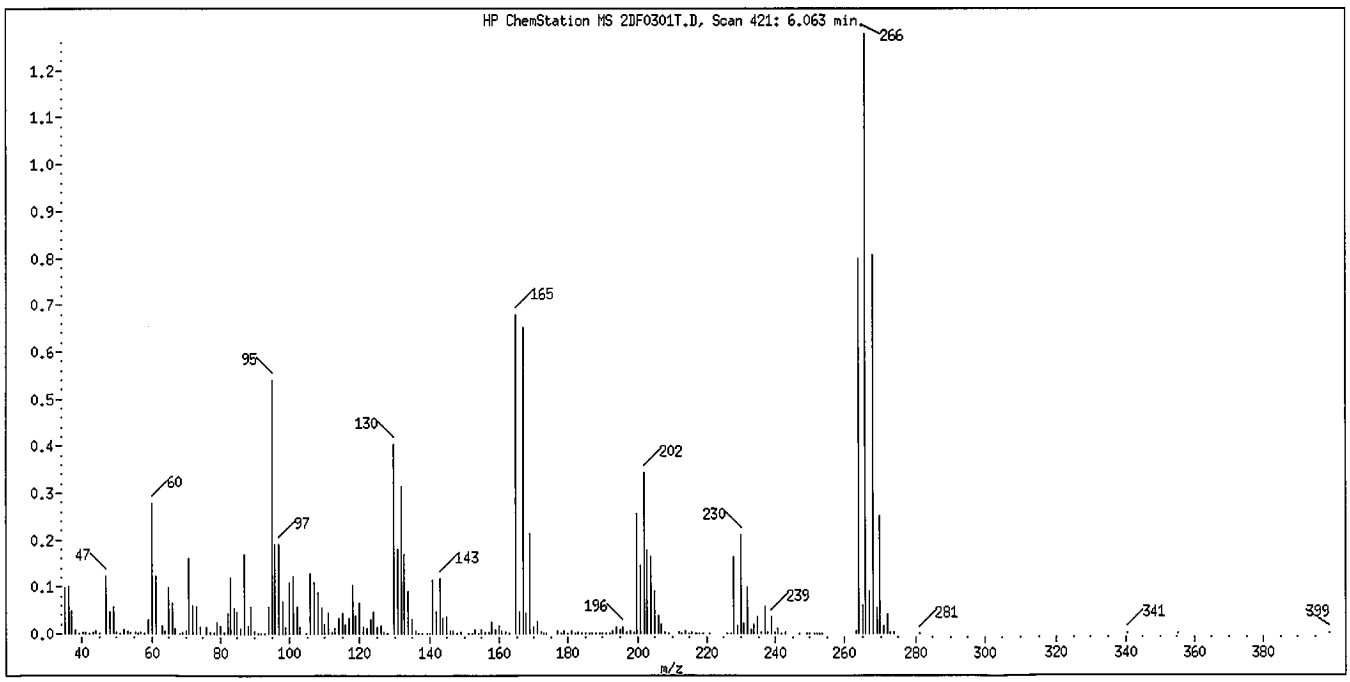
Column diameter: 2.00



Data File: 2DF0301T.D
Inj Date: 01-MAR-2010 07:27
Instrument ID: a4ag2.i
Compound Name: Pentachlorophenol
Operator Name: 046900
Report Date: 03/01/2010

TAILING FACTOR

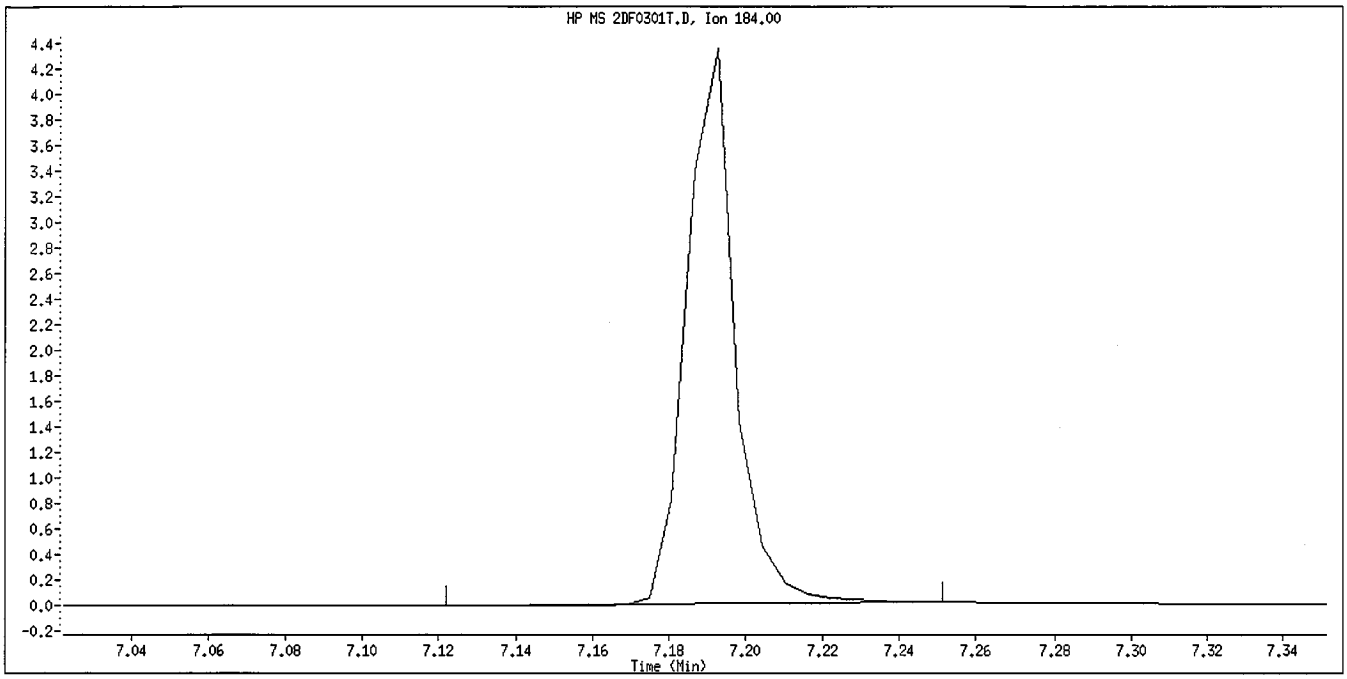


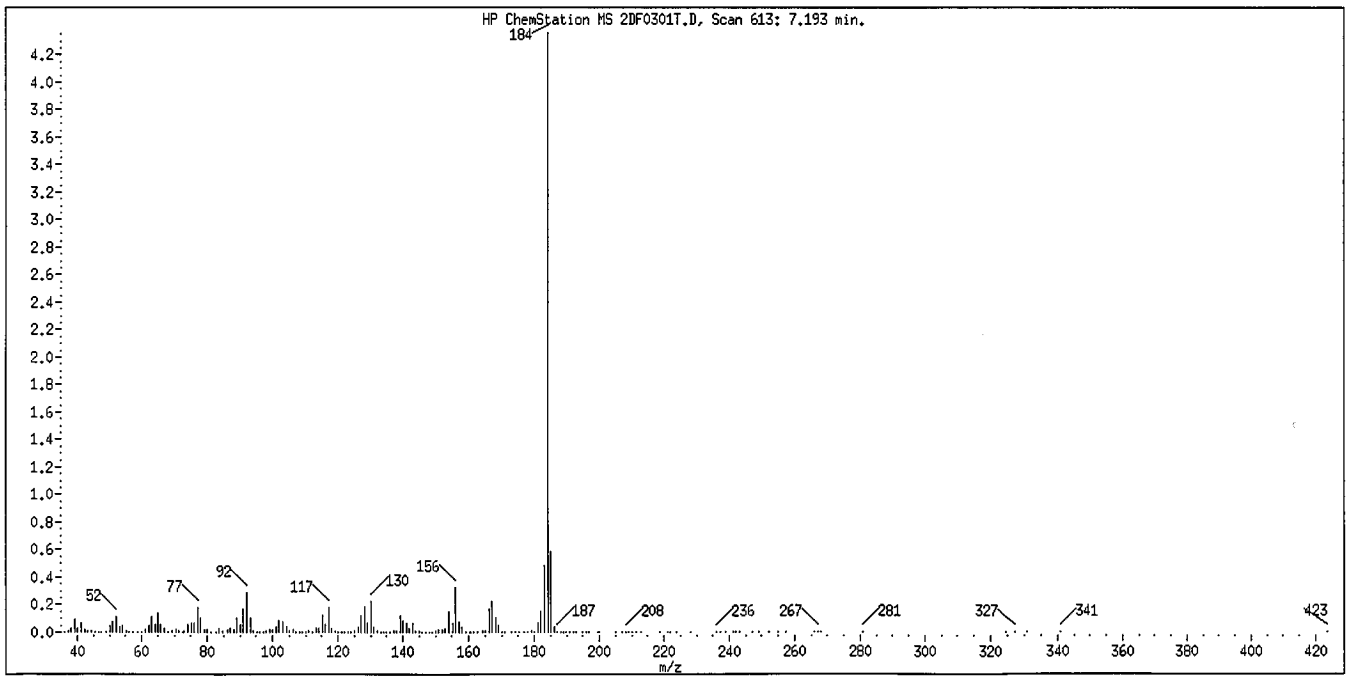


Tailing Factor = 1.16 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.053645 T2 = 6.06325 T3 = 6.074357

Data File: 2DF0301T.D
Inj Date: 01-MAR-2010 07:27
Instrument ID: a4ag2.i
Compound Name: Benzidine
Operator Name: 046900
Report Date: 03/01/2010

TAILING FACTOR

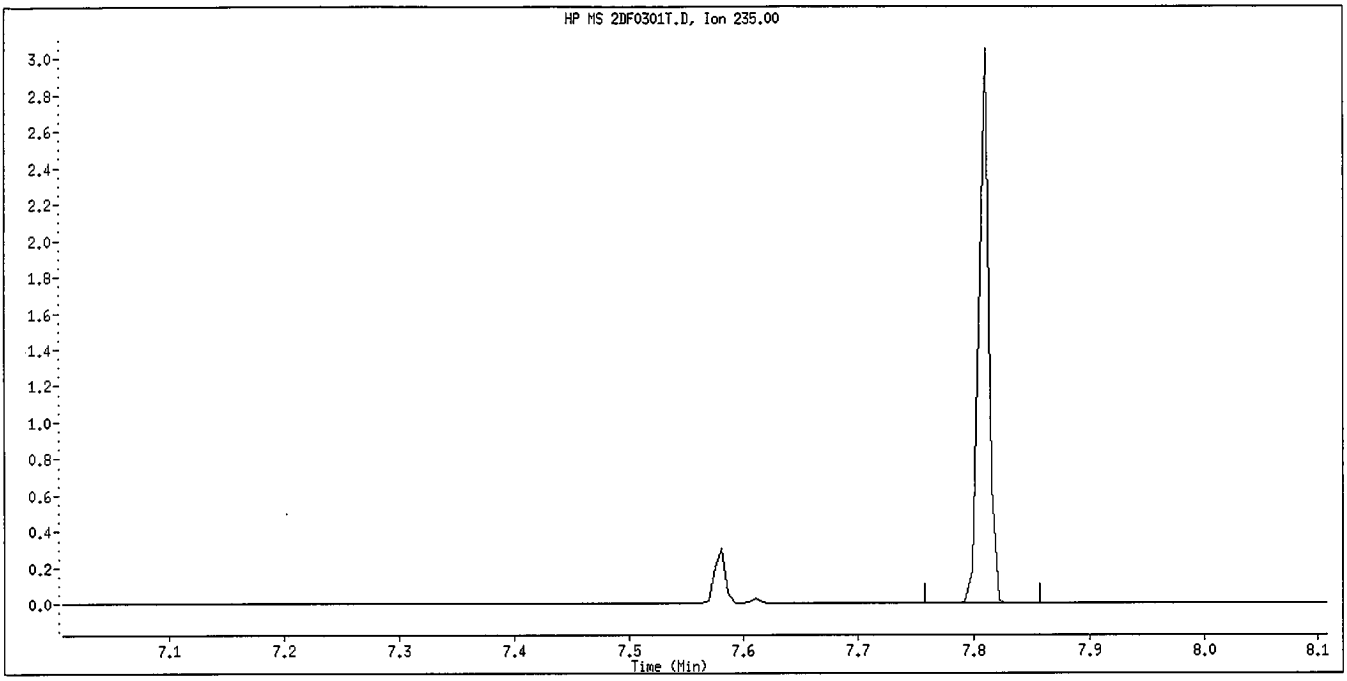




Tailing Factor = 0.83 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 7.17791 T2 = 7.192583 T3 = 7.204761

Data File: 2DF0301T.D
Inj Date: 01-MAR-2010 07:27
Instrument ID: a4ag2.i
Compound Name: 4,4'-DDT
Operator Name: 046900
Report Date: 03/01/2010

DEGRADATION REPORT



Degradation = 9.64% Good
Acceptance Criteria 0 - 20 %
DDT Area = 1920267
DDE Area = 204941
DDD Area = 0

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4J31AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-040
Prep Date.....: 02/26/10 **Analysis Date..:** 03/01/10
Prep Batch #...: 0057040
Dilution Factor: 1 **Final Wgt/Vol..:** 2 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	71	(45 - 110)	SW846 8270C
4-Chloro-3-methylphenol	82	(45 - 115)	SW846 8270C
2-Chlorophenol	75	(45 - 105)	SW846 8270C
1,4-Dichlorobenzene	76	(35 - 105)	SW846 8270C
2,4-Dinitrotoluene	83	(50 - 115)	SW846 8270C
4-Nitrophenol	80	(15 - 140)	SW846 8270C
N-Nitrosodi-n-propyl-amine	80	(40 - 115)	SW846 8270C
Pentachlorophenol	55	(25 - 120)	SW846 8270C
Phenol	78	(40 - 100)	SW846 8270C
Pyrene	81	(45 - 125)	SW846 8270C
1,2,4-Trichloro-benzene	76	(45 - 110)	SW846 8270C
bis(2-Ethylhexyl) phthalate	88	(45 - 125)	SW846 8270C
Acenaphthylene	74	(45 - 105)	SW846 8270C
Anthracene	77	(55 - 105)	SW846 8270C
Benzo(a)anthracene	78	(50 - 110)	SW846 8270C
Benzo(b)fluoranthene	77	(45 - 115)	SW846 8270C
Benzo(k)fluoranthene	85	(45 - 125)	SW846 8270C
Benzo(ghi)perylene	86	(40 - 125)	SW846 8270C
Benzo(a)pyrene	71	(50 - 110)	SW846 8270C
bis(2-Chloroethoxy) methane	81	(45 - 110)	SW846 8270C
bis(2-Chloroethyl)-ether	74	(40 - 105)	SW846 8270C
4-Bromophenyl phenyl ether	74	(45 - 115)	SW846 8270C
Butyl benzyl phthalate	85	(50 - 125)	SW846 8270C
Carbazole	77	(45 - 115)	SW846 8270C
4-Chloroaniline	42	(10 - 95)	SW846 8270C
2-Chloronaphthalene	71	(45 - 105)	SW846 8270C
4-Chlorophenyl phenyl ether	74	(45 - 110)	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4J31AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-040

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chrysene	**79**	**(55 - 110)**	**SW846 8270C**
Dibenzo(a,h)anthracene	**84**	**(40 - 125)**	**SW846 8270C**
Dibenzofuran	**74**	**(50 - 105)**	**SW846 8270C**
Di-n-butyl phthalate	**83**	**(55 - 110)**	**SW846 8270C**
1,2-Dichlorobenzene	**76**	**(45 - 95)**	**SW846 8270C**
1,3-Dichlorobenzene	**71**	**(40 - 100)**	**SW846 8270C**
3,3'-Dichlorobenzidine	**44**	**(10 - 130)**	**SW846 8270C**
2,4-Dichlorophenol	**81**	**(45 - 110)**	**SW846 8270C**
Diethyl phthalate	**77**	**(50 - 115)**	**SW846 8270C**
2,4-Dimethylphenol	**65**	**(30 - 105)**	**SW846 8270C**
Dimethyl phthalate	**77**	**(50 - 110)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	**54**	**(30 - 135)**	**SW846 8270C**
2,4-Dinitrophenol	**43**	**(15 - 130)**	**SW846 8270C**
2,6-Dinitrotoluene	**81**	**(50 - 110)**	**SW846 8270C**
Di-n-octyl phthalate	**84**	**(40 - 130)**	**SW846 8270C**
Fluoranthene	**79**	**(55 - 115)**	**SW846 8270C**
Fluorene	**73**	**(50 - 110)**	**SW846 8270C**
Hexachlorobenzene	**73**	**(45 - 120)**	**SW846 8270C**
Hexachlorobutadiene	**75**	**(40 - 115)**	**SW846 8270C**
Hexachlorocyclopenta-diene	68	(26 - 105)	SW846 8270C
Hexachloroethane	**71**	**(35 - 110)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**84**	**(40 - 120)**	**SW846 8270C**
Isophorone	**78**	**(45 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**92**	**(45 - 105)**	**SW846 8270C**
2-Methylphenol	**76**	**(40 - 105)**	**SW846 8270C**
Naphthalene	**76**	**(40 - 105)**	**SW846 8270C**
2-Nitroaniline	**82**	**(45 - 120)**	**SW846 8270C**
3-Nitroaniline	**66**	**(25 - 110)**	**SW846 8270C**
4-Nitroaniline	**76**	**(35 - 115)**	**SW846 8270C**
Nitrobenzene	**79**	**(40 - 115)**	**SW846 8270C**
2-Nitrophenol	**76**	**(40 - 110)**	**SW846 8270C**
N-Nitrosodiphenylamine	**75**	**(50 - 115)**	**SW846 8270C**
2,2'-oxybis (1-Chloropropane)	79	(20 - 115)	SW846 8270C
Phenanthrene	**74**	**(50 - 110)**	**SW846 8270C**

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4J31AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-040

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,4,5-Trichloro-phenol	**74**	**(50 - 110)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**75**	**(45 - 110)**	**SW846 8270C**
Benzoic acid	15	(0.0- 110)	SW846 8270C
Benzyl alcohol	**78**	**(20 - 125)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	68	(45 - 105)
2-Fluorophenol	79	(35 - 105)
Phenol-d5	75	(40 - 100)
2,4,6-Tribromophenol	69	(35 - 125)
Nitrobenzene-d5	79	(35 - 100)
Terphenyl-d14	90	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4J31AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-040
Prep Date.....: 02/26/10 **Analysis Date..:** 03/01/10
Prep Batch #...: 0057040
Dilution Factor: 1 **Final Wgt/Vol..:** 2 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	670	470	ug/kg	71	SW846 8270C
4-Chloro-3-methylphenol	670	550	ug/kg	82	SW846 8270C
2-Chlorophenol	670	500	ug/kg	75	SW846 8270C
1,4-Dichlorobenzene	670	510	ug/kg	76	SW846 8270C
2,4-Dinitrotoluene	670	560	ug/kg	83	SW846 8270C
4-Nitrophenol	670	530	ug/kg	80	SW846 8270C
N-Nitrosodi-n-propyl-amine	670	530	ug/kg	80	SW846 8270C
Pentachlorophenol	670	370	ug/kg	55	SW846 8270C
Phenol	670	520	ug/kg	78	SW846 8270C
Pyrene	670	540	ug/kg	81	SW846 8270C
1,2,4-Trichloro-benzene	670	500	ug/kg	76	SW846 8270C
bis(2-Ethylhexyl) phthalate	670	590	ug/kg	88	SW846 8270C
Acenaphthylene	670	500	ug/kg	74	SW846 8270C
Anthracene	670	510	ug/kg	77	SW846 8270C
Benzo(a)anthracene	670	520	ug/kg	78	SW846 8270C
Benzo(b)fluoranthene	670	520	ug/kg	77	SW846 8270C
Benzo(k)fluoranthene	670	570	ug/kg	85	SW846 8270C
Benzo(ghi)perylene	670	570	ug/kg	86	SW846 8270C
Benzo(a)pyrene	670	470	ug/kg	71	SW846 8270C
bis(2-Chloroethoxy) methane	670	540	ug/kg	81	SW846 8270C
bis(2-Chloroethyl)-ether	670	500	ug/kg	74	SW846 8270C
4-Bromophenyl phenyl ether	670	490	ug/kg	74	SW846 8270C
Butyl benzyl phthalate	670	560	ug/kg	85	SW846 8270C
Carbazole	670	520	ug/kg	77	SW846 8270C
4-Chloroaniline	670	280	ug/kg	42	SW846 8270C
2-Chloronaphthalene	670	480	ug/kg	71	SW846 8270C
4-Chlorophenyl phenyl ether	670	490	ug/kg	74	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4J31AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-040

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Chrysene	**670**	**520**	**ug/kg**	**79**	**SW846 8270C**
Dibenzo(a,h)anthracene	**670**	**560**	**ug/kg**	**84**	**SW846 8270C**
Dibenzofuran	**670**	**490**	**ug/kg**	**74**	**SW846 8270C**
Di-n-butyl phthalate	**670**	**550**	**ug/kg**	**83**	**SW846 8270C**
1,2-Dichlorobenzene	**670**	**500**	**ug/kg**	**76**	**SW846 8270C**
1,3-Dichlorobenzene	**670**	**470**	**ug/kg**	**71**	**SW846 8270C**
3,3'-Dichlorobenzidine	**670**	**290**	**ug/kg**	**44**	**SW846 8270C**
2,4-Dichlorophenol	**670**	**540**	**ug/kg**	**81**	**SW846 8270C**
Diethyl phthalate	**670**	**520**	**ug/kg**	**77**	**SW846 8270C**
2,4-Dimethylphenol	**670**	**430**	**ug/kg**	**65**	**SW846 8270C**
Dimethyl phthalate	**670**	**510**	**ug/kg**	**77**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	**670**	**360**	**ug/kg**	**54**	**SW846 8270C**
2,4-Dinitrophenol	**670**	**290**	**ug/kg**	**43**	**SW846 8270C**
2,6-Dinitrotoluene	**670**	**540**	**ug/kg**	**81**	**SW846 8270C**
Di-n-octyl phthalate	**670**	**560**	**ug/kg**	**84**	**SW846 8270C**
Fluoranthene	**670**	**530**	**ug/kg**	**79**	**SW846 8270C**
Fluorene	**670**	**490**	**ug/kg**	**73**	**SW846 8270C**
Hexachlorobenzene	**670**	**490**	**ug/kg**	**73**	**SW846 8270C**
Hexachlorobutadiene	**670**	**500**	**ug/kg**	**75**	**SW846 8270C**
Hexachlorocyclopenta-diene	670	460	ug/kg	68	SW846 8270C
Hexachloroethane	**670**	**470**	**ug/kg**	**71**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**670**	**560**	**ug/kg**	**84**	**SW846 8270C**
Isophorone	**670**	**520**	**ug/kg**	**78**	**SW846 8270C**
2-Methylnaphthalene	**670**	**610**	**ug/kg**	**92**	**SW846 8270C**
2-Methylphenol	**670**	**510**	**ug/kg**	**76**	**SW846 8270C**
Naphthalene	**670**	**510**	**ug/kg**	**76**	**SW846 8270C**
2-Nitroaniline	**670**	**540**	**ug/kg**	**82**	**SW846 8270C**
3-Nitroaniline	**670**	**440**	**ug/kg**	**66**	**SW846 8270C**
4-Nitroaniline	**670**	**510**	**ug/kg**	**76**	**SW846 8270C**
Nitrobenzene	**670**	**530**	**ug/kg**	**79**	**SW846 8270C**
2-Nitrophenol	**670**	**510**	**ug/kg**	**76**	**SW846 8270C**
N-Nitrosodiphenylamine	**670**	**500**	**ug/kg**	**75**	**SW846 8270C**
2,2'-oxybis (1-Chloropropane)	670	530	ug/kg	79	SW846 8270C
Phenanthrene	**670**	**490**	**ug/kg**	**74**	**SW846 8270C**

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4J31AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-040

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,4,5-Trichloro-phenol	**670**	**490**	**ug/kg**	**74**	**SW846 8270C**
2,4,6-Trichloro-phenol	**670**	**500**	**ug/kg**	**75**	**SW846 8270C**
Benzoic acid	670		ug/kg	15	SW846 8270C
Benzyl alcohol	**670**	**520**	**ug/kg**	**78**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	68	(45 - 105)
2-Fluorophenol	79	(35 - 105)
Phenol-d5	75	(40 - 100)
2,4,6-Tribromophenol	69	(35 - 125)
Nitrobenzene-d5	79	(35 - 100)
Terphenyl-d14	90	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\LV4J31AC.D
Lab Smp Id: LV4J31AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 01-MAR-2010 09:04
Operator : 046900 Inst ID: a4ag2.i
Smp Info : LV4J31AC,00301A.b,8270C-625,TCLLCSD.SUB
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Meth Date : 01-Mar-2010 13:48 hulat Quant Type: ISTD
Cal Date : 26-FEB-2010 20:08 Cal File: 2NL0226.D
Als bottle: 7 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCLLCSD.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
* 1	1,4-Dichlorobenzene-d4	152	3.498	3.504	(1.000)	230614	2.00000	
* 2	Naphthalene-d8	136	4.404	4.410	(1.000)	916031	2.00000	
* 3	Acenaphthene-d10	164	5.686	5.686	(1.000)	557390	2.00000	
* 4	Phenanthrene-d10	188	6.780	6.786	(1.000)	947913	2.00000	
* 5	Chrysene-d12	240	8.762	8.774	(1.000)	1091137	2.00000	
* 6	Perylene-d12	264	10.180	10.192	(1.000)	991326	2.00000	
9	Pyridine	79	1.880	1.869	(0.538)	385307	2.48800	331.73
10	N-Nitrosodimethylamine	74	1.845	1.839	(0.528)	348483	3.96694	528.92
209	Benzaldehyde	77	3.198	3.204	(0.914)	433878	3.97722	530.30(Q)
21	Aniline	93	3.269	3.274	(0.934)	313563	1.42737	190.32
22	Phenol	94	3.222	3.222	(0.921)	701971	3.91968	522.62
23	bis(2-Chloroethyl)ether	93	3.292	3.298	(0.941)	538143	3.71625	495.50
24	2-Chlorophenol	128	3.357	3.357	(0.960)	533384	3.73177	497.57
26	1,3-Dichlorobenzene	146	3.463	3.469	(0.990)	535321	3.55911	474.55
27	1,4-Dichlorobenzene	146	3.510	3.516	(1.003)	566634	3.80999	508.00
28	1,2-Dichlorobenzene	146	3.622	3.627	(1.035)	541378	3.77605	503.47
29	Benzyl Alcohol	108	3.574	3.574	(1.022)	369278	3.88486	517.98
30	2-Methylphenol	108	3.639	3.639	(1.040)	494927	3.79589	506.12

31	bis(2-Chloroisopropyl)ether	45	3.663	3.669 (1.047)	635401	3.94509	526.01
37	Acetophenone	105	3.769	3.769 (1.077)	761967	3.86786	515.71

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
32	N-Nitroso-di-n-propylamine	70	3.757	3.763	(1.074)	480263	3.98171	530.90
192	4-Methylphenol	108	3.745	3.745	(1.071)	1014379	7.34875	979.83
34	Hexachloroethane	117	3.863	3.869	(1.104)	225695	3.55164	473.55
35	Nitrobenzene	77	3.898	3.898	(0.885)	692945	3.96255	528.34
39	o-Toluidine	106	Compound Not Detected.					
41	Isophorone	82	4.057	4.063	(0.921)	1193710	3.90155	520.21
42	2-Nitrophenol	139	4.122	4.127	(0.936)	276123	3.82390	509.85(Q)
43	2,4-Dimethylphenol	107	4.127	4.127	(0.937)	503050	3.25338	433.78
44	bis(2-Chloroethoxy)methane	93	4.192	4.198	(0.952)	633352	4.05924	541.23
48	2,4-Dichlorophenol	162	4.292	4.292	(0.975)	422623	4.05897	541.20
49	Benzoic Acid	122	4.186	4.216	(0.951)	5313	0.74613	99.483(Q)
50	1,2,4-Trichlorobenzene	180	4.357	4.363	(0.989)	461247	3.78220	504.29
51	Naphthalene	128	4.421	4.427	(1.004)	1611063	3.81645	508.86
52	4-Chloroaniline	127	4.439	4.445	(1.008)	362423	2.10412	280.55
56	Hexachlorobutadiene	225	4.504	4.504	(1.023)	279629	3.73264	497.68
210	Caprolactam	113	4.674	4.692	(1.061)	207273	4.60941	614.59(Q)
59	4-Chloro-3-Methylphenol	107	4.774	4.774	(1.084)	513821	4.10093	546.79
62	2-Methylnaphthalene	142	4.916	4.921	(1.116)	1072192	4.58684	611.58
63	1-Methylnaphthalene	142	4.992	4.992	(1.134)	1063060	3.93635	524.85
64	Hexachlorocyclopentadiene	237	5.033	5.039	(0.885)	325013	3.42334	456.44
66	2,4,6-Trichlorophenol	196	5.110	5.116	(0.899)	316435	3.73385	497.85
67	2,4,5-Trichlorophenol	196	5.139	5.145	(0.904)	326736	3.69511	492.68
211	1,1'-Biphenyl	154	5.251	5.251	(0.923)	1348396	3.43436	457.92(Q)
70	2-Chloronaphthalene	162	5.274	5.280	(0.928)	976604	3.57284	476.38
73	2-Nitroaniline	65	5.333	5.333	(0.938)	407122	4.07633	543.51
76	Dimethylphthalate	163	5.451	5.451	(0.959)	1233362	3.85934	514.58
78	2,6-Dinitrotoluene	165	5.498	5.504	(0.967)	285581	4.06461	541.95
79	Acenaphthylene	152	5.586	5.586	(0.982)	1682064	3.71549	495.40
80	1,2-Dinitrobenzene	168	5.545	5.551	(0.975)	143022	4.05518	540.69
81	3-Nitroaniline	138	5.627	5.633	(0.990)	251279	3.30319	440.42
82	Acenaphthene	153	5.710	5.710	(1.004)	1056724	3.55095	473.46(Q)
83	2,4-Dinitrophenol	184	5.704	5.710	(1.003)	72870	2.14173	285.56(Q)
85	4-Nitrophenol	109	5.727	5.733	(1.007)	224521	3.99137	532.18
86	Dibenzofuran	168	5.833	5.839	(1.026)	1475205	3.69146	492.20
87	2,4-Dinitrotoluene	165	5.798	5.804	(1.020)	400740	4.17217	556.29
91	2,3,5,6-Tetrachlorophenol	232	5.886	5.886	(1.035)	245000	3.02118	402.82
93	Diethylphthalate	149	5.963	5.963	(1.049)	1338626	3.86290	515.05
94	Fluorene	166	6.086	6.092	(1.070)	1245379	3.63845	485.13
95	4-Chlorophenyl-phenylether	204	6.068	6.068	(1.067)	590295	3.70416	493.89
96	4-Nitroaniline	138	6.080	6.086	(1.069)	330001	3.79821	506.43
98	4,6-Dinitro-2-methylphenol	198	6.098	6.104	(0.899)	163471	2.72331	363.11
99	N-Nitrosodiphenylamine	169	6.151	6.157	(0.907)	911941	3.75926	501.23
100	1,2-Diphenylhydrazine	77	6.186	6.186	(0.912)	1628541	3.74184	498.91
106	4-Bromophenyl-phenylether	248	6.433	6.433	(0.949)	349799	3.69006	492.01
107	Hexachlorobenzene	284	6.498	6.504	(0.958)	371952	3.66347	488.46
212	Atrazine	200	6.521	6.527	(0.962)	395652	6.30375	840.50(QR)
111	Pentachlorophenol	266	6.633	6.639	(0.978)	159863	2.76209	368.28
115	Phenanthrene	178	6.798	6.804	(1.003)	1846573	3.71013	494.68
116	Anthracene	178	6.839	6.845	(1.009)	1911146	3.84236	512.31
119	Carbazole	167	6.945	6.945	(1.024)	1801720	3.86942	515.92
120	Di-n-Butylphthalate	149	7.157	7.162	(1.056)	2350054	4.13395	551.19
123	Fluoranthene	202	7.686	7.692	(1.134)	2119737	3.97324	529.76

125 Pyrene	202	7.857	7.862 (0.897)	2142312	4.05172	540.23
131 Butylbenzylphthalate	149	8.280	8.286 (0.945)	1031920	4.23269	564.36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
135	3,3'-Dichlorobenzidine	252	8.709	8.721	(0.994)	452910	2.20791	294.39
136	Benzo(a)Anthracene	228	8.757	8.762	(0.999)	2108946	3.89350	519.13
137	Chrysene	228	8.786	8.798	(1.003)	2008053	3.93087	524.12
139	bis(2-ethylhexyl)Phthalate	149	8.692	8.704	(0.992)	1542968	4.39802	586.40(Q)
140	Di-n-octylphthalate	149	9.227	9.239	(0.906)	2444175	4.19376	559.17
141	Benzo(b)fluoranthene	252	9.745	9.756	(0.957)	2129755	3.86883	515.84
142	Benzo(k)fluoranthene	252	9.774	9.786	(0.960)	2413502	4.24358	565.81
146	Benzo(a)pyrene	252	10.115	10.133	(0.994)	1772935	3.56092	474.79
149	Indeno(1,2,3-cd)pyrene	276	11.686	11.709	(1.148)	2351245	4.22452	563.27
150	Dibenz(a,h)anthracene	278	11.697	11.715	(1.149)	1997147	4.22192	562.92
151	Benzo(g,h,i)perylene	276	12.150	12.162	(1.194)	1915775	4.28862	571.82
198	1,4-Dioxane	88	1.692	1.675	(0.484)	104221	1.63581	218.11(QM)
232	2-Methylcyclohexanone	68	Compound Not Detected.					
233	3-Methylcyclohexanone	69	Compound Not Detected.					
234	4-Methylcyclohexanone	55	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.880	3.886	(0.881)	742046	3.93804	525.07
$ 155	2-Fluorobiphenyl	172	5.169	5.174	(0.909)	1103679	3.40041	453.39
$ 156	Terphenyl-d14	244	7.939	7.945	(0.906)	1565286	4.51982	602.64
$ 157	Phenol-d5	99	3.210	3.210	(0.918)	942406	5.60313	747.08
$ 158	2-Fluorophenol	112	2.627	2.622	(0.751)	730908	5.92374	789.83
$ 159	2,4,6-Tribromophenol	330	6.263	6.268	(1.101)	235692	5.16229	688.30
$ 186	2-Chlorophenol-d4	132	3.345	3.345	(0.956)	775188	5.90399	787.20
$ 187	1,2-Dichlorobenzene-d4	152	3.616	3.616	(1.034)	316580	3.48349	464.46
M 195	Cresols, total	100				1509306	11.1446	1486.0

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4ag2.i
Lab File ID: LV4J31AC.D
Lab Smp Id: LV4J31AC
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 07:38
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	274415	137208	548830	230614	-15.96
2 Naphthalene-d8	1113812	556906	2227624	916031	-17.76
3 Acenaphthene-d10	617736	308868	1235472	557390	-9.77
4 Phenanthrene-d10	1034596	517298	2069192	947913	-8.38
5 Chrysene-d12	1265955	632978	2531910	1091137	-13.81
6 Perylene-d12	1179942	589971	2359884	991326	-15.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.50	3.00	4.00	3.50	-0.17
2 Naphthalene-d8	4.41	3.91	4.91	4.40	-0.13
3 Acenaphthene-d10	5.69	5.19	6.19	5.69	0.00
4 Phenanthrene-d10	6.79	6.29	7.29	6.78	-0.09
5 Chrysene-d12	8.77	8.27	9.27	8.76	-0.13
6 Perylene-d12	10.19	9.69	10.69	10.18	-0.12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\LV4J31AC.D

Page 1

Date : 01-MAR-2010 09:04

Client ID: INTRA-LAB CHECK

Instrument: a4ag2.i

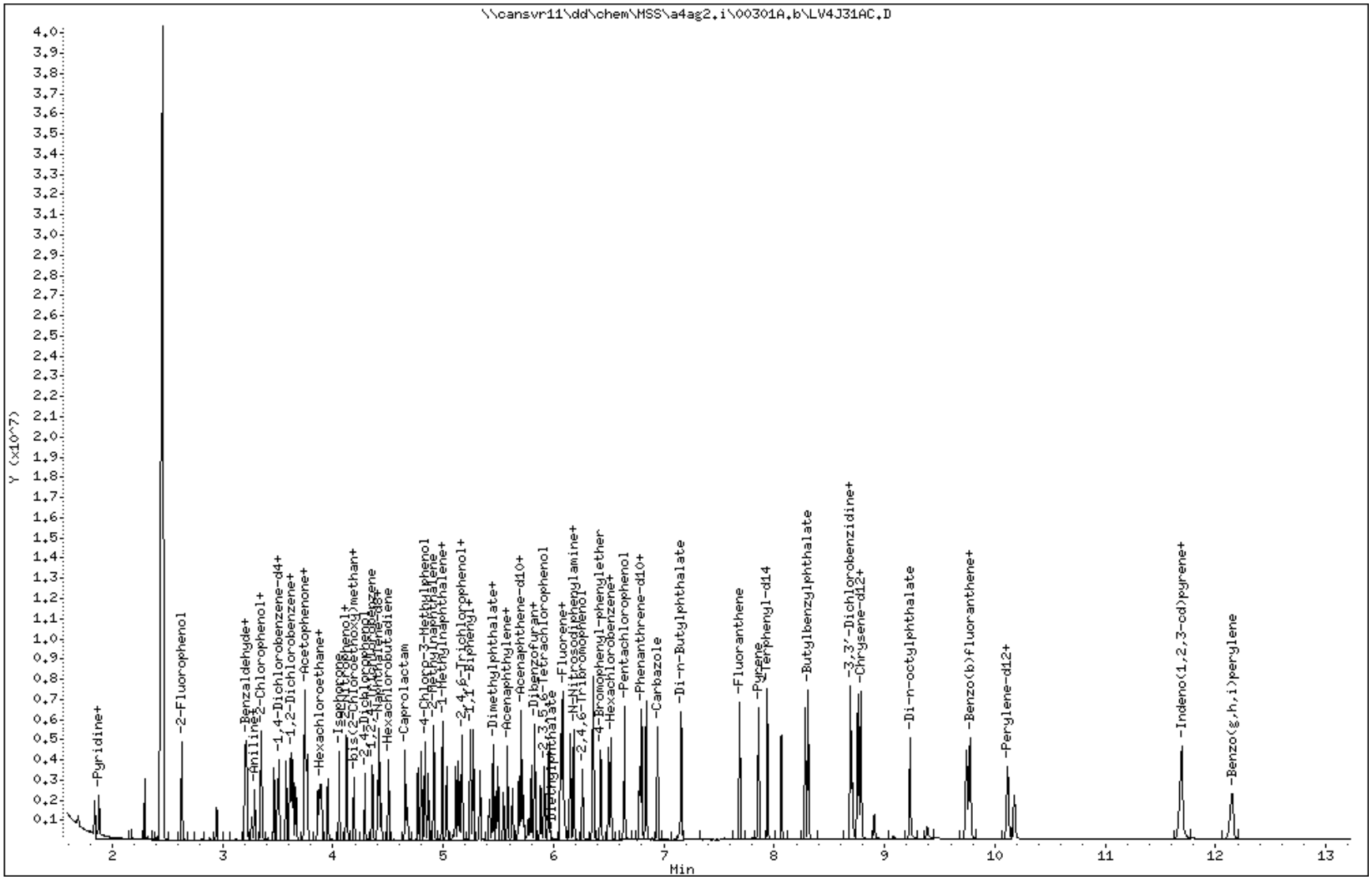
Sample Info: LV4J31AC,00301A.b,8270C-625,TCLLCSD,SUB

Volume Injected (uL): 0.5

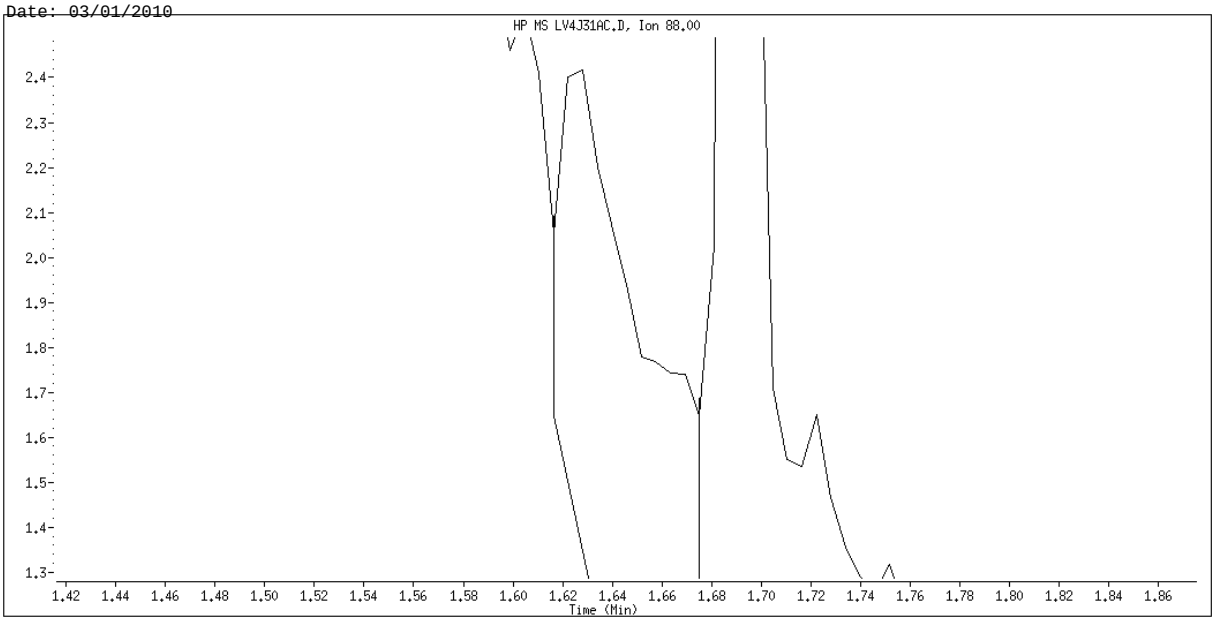
Operator: 046900

Column phase: db5.625

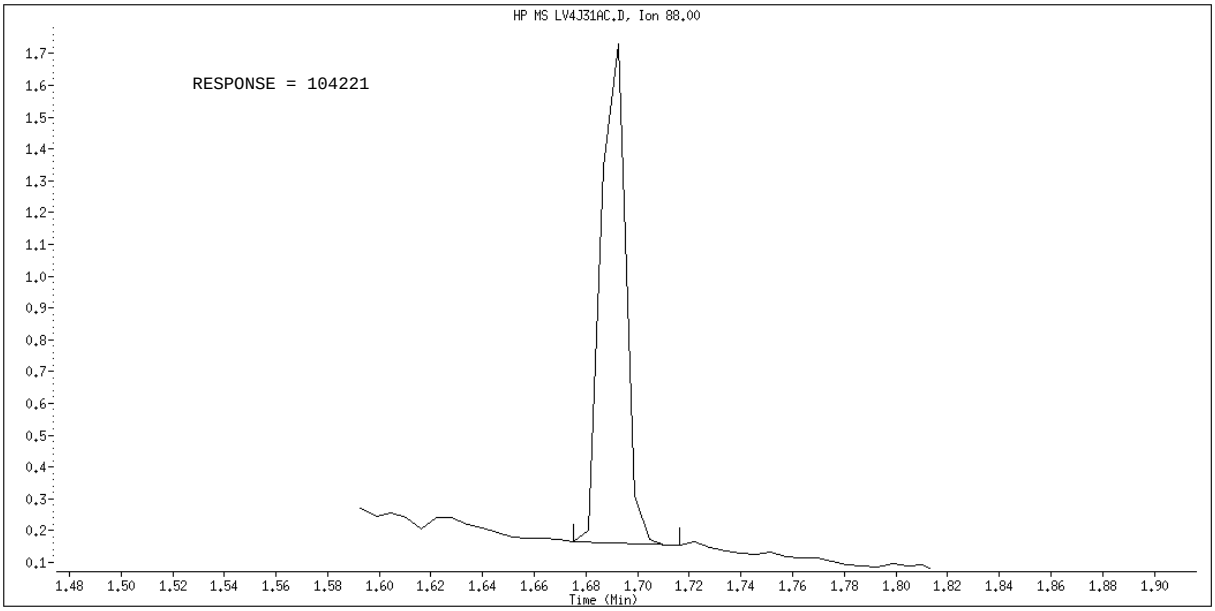
Column diameter: 0.32



Data File Name: LV4J31AC.D
Inj. Date and Time: 01-MAR-2010 09:04
Instrument ID: a4ag2.i
Client ID: INTRA-LAB CHECK
Compound Name: 1,4-Dioxane
CAS #: 123-91-1
Report Date: 03/01/2010



Original Integration



Manual Integration

Manually Integrated By: hulat
Manual Integration Reason: Peak not found

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4J31AA **Matrix.....:** SOLID
MB Lot-Sample #: A0B260000-040

Prep Date.....: 02/26/10 **Final Wgt/Vol..:** 2 mL
Analysis Date..: 03/01/10 **Prep Batch #...:** 0057040
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	50	ug/kg	SW846 8270C
Acenaphthylene	ND	50	ug/kg	SW846 8270C
Anthracene	ND	50	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	50	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	50	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	50	ug/kg	SW846 8270C
Benzoic acid	ND	800	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	50	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	50	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	50	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	800	ug/kg	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4J31AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrophenol	ND	800	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	50	ug/kg	SW846 8270C
Fluorene	ND	50	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta-diene	ND	330	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	50	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	50	ug/kg	SW846 8270C
2-Nitroaniline	ND	800	ug/kg	SW846 8270C
3-Nitroaniline	ND	800	ug/kg	SW846 8270C
4-Nitroaniline	ND	800	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	800	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	330	ug/kg	SW846 8270C
Phenanthrene	ND	50	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	50	ug/kg	SW846 8270C
1,2,4-Trichloro-benzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	ND	50	ug/kg	SW846 8270C
Carbazole	ND	50	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	69	(45 - 105)
2-Fluorophenol	80	(35 - 105)
Phenol-d5	76	(40 - 100)
2,4,6-Tribromophenol	64	(35 - 125)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4J31AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene-d5	71	(35 - 100)		
Terphenyl-d14	93	(30 - 125)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\LV4J31AA.D
Lab Smp Id: LV4J31AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 01-MAR-2010 08:46
Operator : 046900 Inst ID: a4ag2.i
Smp Info : LV4J31AA,00301A.b,8270C-625,5-8270AP9MP.SUB
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Meth Date : 01-Mar-2010 13:48 hulat Quant Type: ISTD
Cal Date : 26-FEB-2010 20:08 Cal File: 2NL0226.D
Als bottle: 6 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 5-8270AP9MP.SUB
Target Version: 4.14
Processing Host: CANPMSSV04

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
* 1 1,4-Dichlorobenzene-d4	152	3.498	3.504	(1.000)	257668	2.00000	(Q)
* 2 Naphthalene-d8	136	4.404	4.410	(1.000)	1030281	2.00000	
* 3 Acenaphthene-d10	164	5.680	5.686	(1.000)	613437	2.00000	
* 4 Phenanthrene-d10	188	6.780	6.786	(1.000)	1038713	2.00000	
* 5 Chrysene-d12	240	8.762	8.774	(1.000)	1198108	2.00000	
* 6 Perylene-d12	264	10.180	10.192	(1.000)	1085870	2.00000	
7 N-Nitrosomorpholine	56	Compound Not Detected.					
8 Ethyl methanesulfonate	79	Compound Not Detected.					
9 Pyridine	79	Compound Not Detected.					
10 N-Nitrosodimethylamine	74	Compound Not Detected.					
11 Ethyl methacrylate	69	Compound Not Detected.					
12 3-Chloropropionitrile	54	Compound Not Detected.					
13 Malononitrile	66	Compound Not Detected.					
209 Benzaldehyde	77	Compound Not Detected.					
14 2-Picoline	93	Compound Not Detected.					
15 N-Nitrosomethylethylamine	88	Compound Not Detected.					
16 Methyl methanesulfonate	80	Compound Not Detected.					
18 1,3-Dichloro-2-propanol	79	Compound Not Detected.					

19	N-Nitrosodiethylamine	102	Compound Not Detected.
21	Aniline	93	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
22	Phenol	94	Compound Not Detected.					
23	bis(2-Chloroethyl)ether	93	Compound Not Detected.					
24	2-Chlorophenol	128	Compound Not Detected.					
25	Pentachloroethane	167	Compound Not Detected.					
26	1,3-Dichlorobenzene	146	Compound Not Detected.					
27	1,4-Dichlorobenzene	146	Compound Not Detected.					
28	1,2-Dichlorobenzene	146	Compound Not Detected.					
29	Benzyl Alcohol	108	Compound Not Detected.					
30	2-Methylphenol	108	Compound Not Detected.					
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
193	3-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
36	N-Nitrosopyrrolidine	100	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
39	o-Toluidine	106	Compound Not Detected.					
40	N-Nitrosopiperidine	114	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
45	O,O,O-Triethyl phosphorothioa	198	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	Compound Not Detected.					
52	4-Chloroaniline	127	Compound Not Detected.					
53	a,a-Dimethyl-phenethylamine	58	Compound Not Detected.					
54	2,6-Dichlorophenol	162	Compound Not Detected.					
55	Hexachloropropene	213	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
58	N-Nitrosodi-n-butylamine	84	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
60	p-Phenylene diamine	108	Compound Not Detected.					
61	Safrole	162	Compound Not Detected.					
62	2-Methylnaphthalene	142	Compound Not Detected.					
63	1-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
65	1,2,4,5-Tetrachlorobenzene	216	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
69	1,4-Dinitrobenzene	168	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
71	Isosafrole 1	162	Compound Not Detected.					

M	188 Isosafrole, Total	162	Compound Not Detected.
	72 Isosafrole 2	162	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
75	1,4-Naphthoquinone	158	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
77	m-Dinitrobenzene	168	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
84	Pentachlorobenzene	250	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
88	2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					
89	1-Naphthylamine	143	Compound Not Detected.					
90	Zinophos	97	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
92	2-Naphthylamine	143	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
101	Diphenylamine	169	Compound Not Detected.					
102	Tetraethyl dithiopyrophosphat	202	Compound Not Detected.					
103	Diallate 1	86	Compound Not Detected.					
M 189	Diallate, Total	100	Compound Not Detected.					
104	Phorate	121	Compound Not Detected.					
105	1,3,5-Trinitrobenzene	213	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					
212	Atrazine	200	Compound Not Detected.					
108	Phenacetin	108	Compound Not Detected.					
109	Diallate 2	86	Compound Not Detected.					
110	Dimethoate	87	Compound Not Detected.					
111	Pentachlorophenol	266	Compound Not Detected.					
112	Pentachloronitrobenzene	237	Compound Not Detected.					
113	4-Aminobiphenyl	169	Compound Not Detected.					
114	Pronamide	173	Compound Not Detected.					
115	Phenanthrene	178	Compound Not Detected.					
116	Anthracene	178	Compound Not Detected.					
117	Dinoseb	211	Compound Not Detected.					
118	Disulfoton	88	Compound Not Detected.					
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
121	4-Nitroquinoline 1-oxide	190	Compound Not Detected.					
122	Methapyrilene	58	Compound Not Detected.					
123	Fluoranthene	202	Compound Not Detected.					

124	Benzidine	184	Compound Not Detected.
125	Pyrene	202	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
126	Aramite 1	185	Compound Not Detected.					
M 191	Aramite, Total	100	Compound Not Detected.					
127	Aramite 2	185	Compound Not Detected.					
128	p-Dimethylamino azobenzene	225	Compound Not Detected.					
129	p-Chlorobenzilate	139	Compound Not Detected.					
130	Famphur 1	218	Compound Not Detected.					
131	Butylbenzylphthalate	149	Compound Not Detected.					
132	3,3'-Dimethylbenzidine	212	Compound Not Detected.					
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
134	2-Acetylaminofluorene	181	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	Compound Not Detected.					
137	Chrysene	228	Compound Not Detected.					
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.692	8.704	(0.992)	44964	0.11672	15.563(Q)
140	Di-n-octylphthalate	149	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	Compound Not Detected.					
142	Benzo(k)fluoranthene	252	Compound Not Detected.					
143	7,12-dimethylbenz[a]anthracen	256	Compound Not Detected.					
144	Hexachlorophene	198	Compound Not Detected.					
145	Hexachlorophene product	462	Compound Not Detected.					
146	Benzo(a)pyrene	252	Compound Not Detected.					
148	3-Methylcholanthrene	268	Compound Not Detected.					
149	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150	Dibenz(a,h)anthracene	278	Compound Not Detected.					
151	Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.880	3.886	(0.881)	754220	3.55879	474.50
$ 155	2-Fluorobiphenyl	172	5.169	5.174	(0.910)	1234607	3.45626	460.83
$ 156	Terphenyl-d14	244	7.945	7.945	(0.907)	1761054	4.63109	617.48
$ 157	Phenol-d5	99	3.210	3.210	(0.918)	1077398	5.73315	764.42
$ 158	2-Fluorophenol	112	2.633	2.622	(0.753)	830207	6.02206	802.94
$ 159	2,4,6-Tribromophenol	330	6.263	6.268	(1.103)	237596	4.76865	635.82
$ 186	2-Chlorophenol-d4	132	3.345	3.345	(0.956)	873801	5.95629	794.17
$ 187	1,2-Dichlorobenzene-d4	152	3.610	3.616	(1.032)	365427	3.59879	479.84
97	5-Nitro-o-toluidine	152	Compound Not Detected.					
198	1,4-Dioxane	88	Compound Not Detected.					
199	3-Picoline	93	Compound Not Detected.					
200	N,N-Dimethylacetamide	44	Compound Not Detected.					
214	1,3-Dimethyl-2-Thiourea	104	Compound Not Detected.					
221	Hexabromobenzene	232	Compound Not Detected.					
222	Dibenz(a,h)acridine	279	Compound Not Detected.					
208	Dibenz(a,j)acridine	279	Compound Not Detected.					
225	Methyl parathion	109	Compound Not Detected.					
226	Parathion	97	Compound Not Detected.					
227	Isodrin	66	Compound Not Detected.					
232	2-Methylcyclohexanone	68	Compound Not Detected.					
233	3-Methylcyclohexanone	69	Compound Not Detected.					
234	4-Methylcyclohexanone	55	Compound Not Detected.					
235	Tributyl phosphate	99	Compound Not Detected.					
250	N-methyl-pyrrolidone	99	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

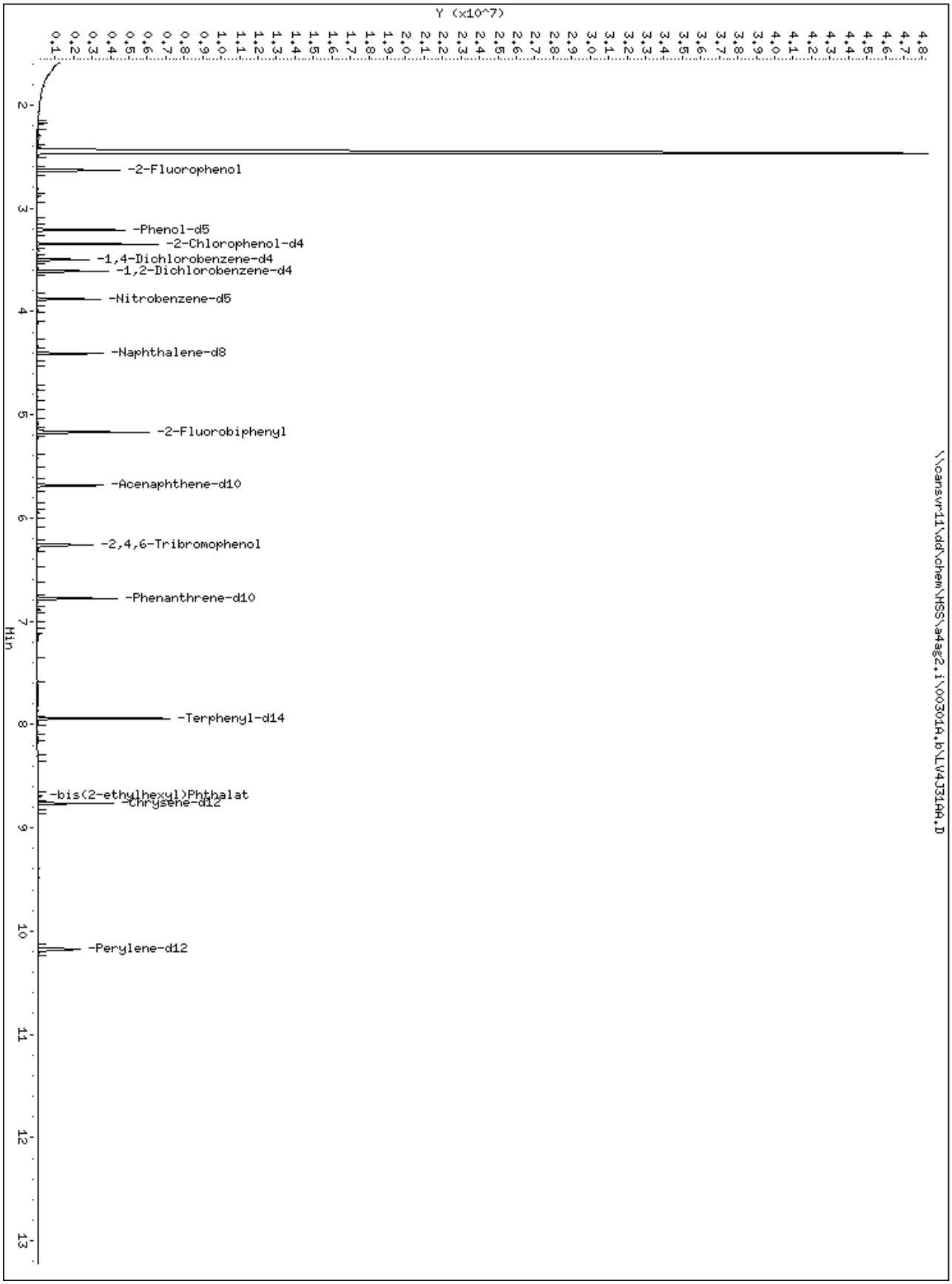
Instrument ID: a4ag2.i
Lab File ID: LV4J31AA.D
Lab Smp Id: LV4J31AA
Analysis Type: SV
Quant Type: ISTD
Operator: 046900
Method File: \\cansvr11\dd\chem\MSS\a4ag2.i\00301A.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 07:38
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: SOIL

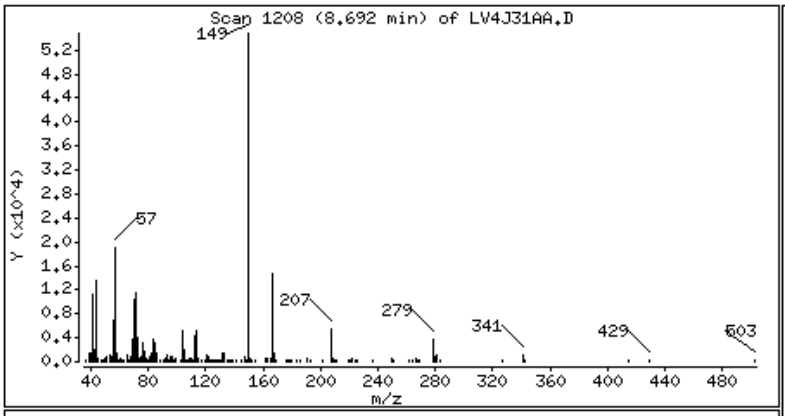
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	274415	137208	548830	257668	-6.10
2 Naphthalene-d8	1113812	556906	2227624	1030281	-7.50
3 Acenaphthene-d10	617736	308868	1235472	613437	-0.70
4 Phenanthrene-d10	1034596	517298	2069192	1038713	0.40
5 Chrysene-d12	1265955	632978	2531910	1198108	-5.36
6 Perylene-d12	1179942	589971	2359884	1085870	-7.97

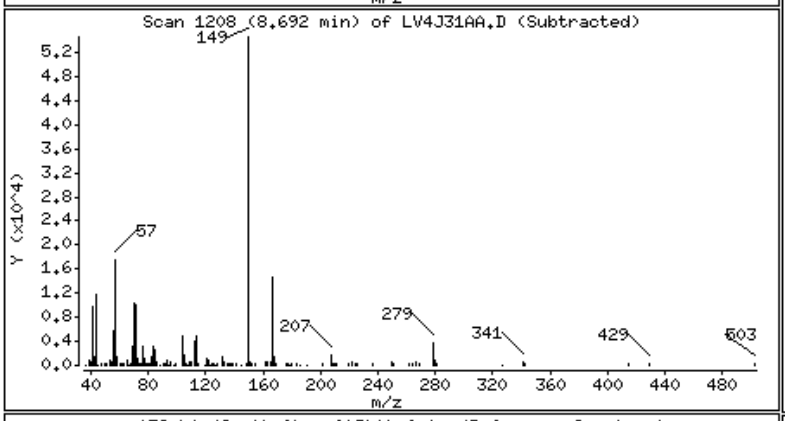
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.50	3.00	4.00	3.50	-0.17
2 Naphthalene-d8	4.41	3.91	4.91	4.40	-0.13
3 Acenaphthene-d10	5.69	5.19	6.19	5.68	-0.10
4 Phenanthrene-d10	6.79	6.29	7.29	6.78	-0.09
5 Chrysene-d12	8.77	8.27	9.27	8.76	-0.13
6 Perylene-d12	10.19	9.69	10.69	10.18	-0.12

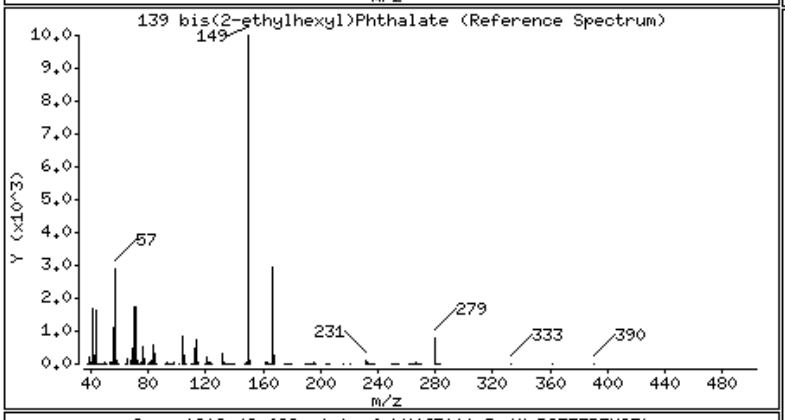
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

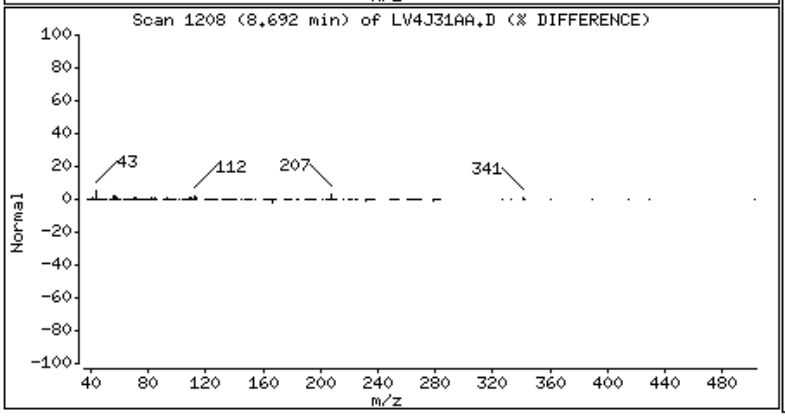

Y (x10^7)
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-bis(2-ethylhexyl)Phthalat
-Chrysene-d12
-Perylene-d12
\\cansvr11\dd\chem\HSS\a4ag2.i\00301A.b\LV4J31AA.D

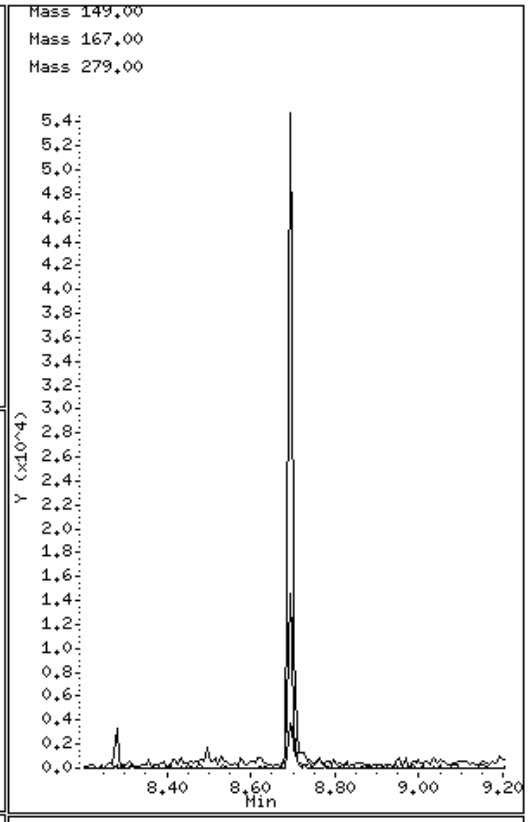
139 bis(2-ethylhexyl)Phthalate

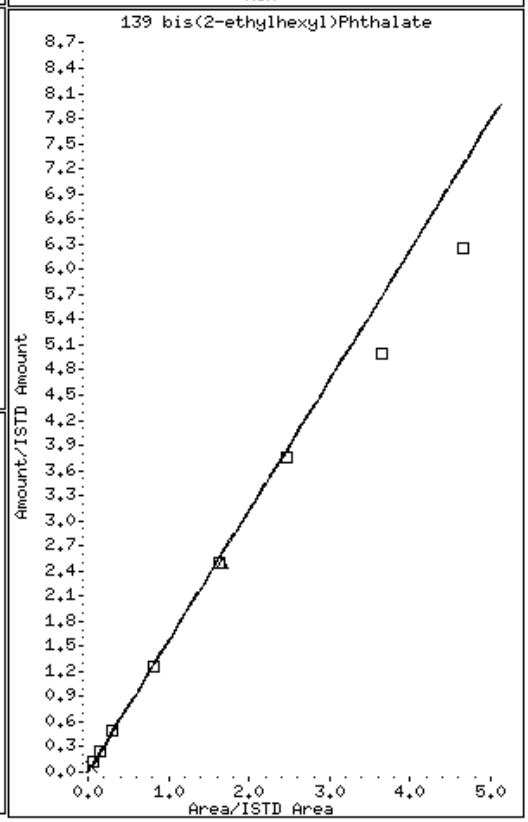












TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4ag2.i

Method 8270C 625 | IS#: SV3548 | Date: 26-FEB-2010 12:30

GC Program #: 2

Data File	Client ID	Sample ID	ALS	DF	Analyst	QUAL	Comments
2DF0226.D	SV3549	2DF0226	1	1	046900	ok	(12:30)
2DF0226T.D	" "	2DF0226	1	1	046900	ok	
2SHHH0226.D	SV3588	L9	2	1	046900	ok	
2SHH0226.D	SV3587	L8	3	1	046900	ok	
2SH0226.D	SV3586	L7	4	1	046900	ok	
2SMH0226.D	SV3585	L6	5	1	046900	ok	
2SMM0226.D	SV3584	L5	6	1	046900	ok	
2SM0226.D	SV3583	L4	7	1	046900	ok	
2SML0226.D	SV3582	L3	8	1	046900	ok	
2SL0226.D	SV3581	L2	9	1	046900	ok	
2SLL0226.D	SV3580	L1	10	1	046900	ok	
ICVTCL.D	SV3589	ICVTCL	11	1	046900	ok	
2AHHH0226.D	SV3576	L9	12	1	046900	ok	
2AHH0226.D	SV3575	L8	13	1	046900	ok	
2AH0226.D	SV3574	L7	14	1	046900	ok	
2AMH0226.D	SV3573	L6	15	1	046900	ok	
2AMM0226.D	SV3572	L5	16	1	046900	ok	
2AM0226.D	SV3571	L4	17	1	046900	ok	
2AML0226.D	SV3570	L3	18	1	046900	ok	
2AL0226.D	SV3569	L2	19	1	046900	ok	
ICVAP9.D	SV3577	ICVAP9	20	1	046900	ok	
2NHHH0226.D	SV3544	L9	21	1	046900	ok	
2NHH0226.D	SV3543	L8	22	1	046900	ok	
2NH0226.D	SV3542	L7	23	1	046900	ok	
2NMH0226.D	SV3541	L6	24	1	046900	ok	
2NMM0226.D	SV3540	L5	25	1	046900	ok	

2-1-10

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4ag2.i

Method 8270C 625 IS#: SV3548 Date: 26-FEB-2010 ~~19:19~~ 12:30

GC Program #: 2

3-1-10

Data File	Client ID	Sample ID	ALS	DF	Analyst	QUAL	Comments
2NM0226.D	SV3539	L4	26	1	046900	dc	
2NML0226.D	SV3538	L3	27	1	046900	dc	
2NL0226.D	SV3537	L2	28	1	046900	dc	
LV21A1AA.D	INTRA-LAB BLANK	LV21A1AA	29	1	046900	dc	
LV21A1AC.D	INTRA-LAB CHECK	LV21A1AC	30	1	046900	dc	
LV21A1AD.D	INTRA-LAB CHECK	LV21A1AD	31	1	046900	dc	
LV2AQ1AA.D	CS-F2-729FB	LV2AQ1AA	32	1	046900	dc	

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4ag2.i

Method 8270C 625 | IS#: SV3578 | Date: 01-MAR-2010 07:27

MeCL2 Lot#: H50J00 | Operator: 046900

GC Program #: 2

Data File	Client ID-STD #	Sample ID	DF	QUAL	Prep	Comments
2DF0301.D	SV3549	SDGa00366	1	a		OK MM 3/2/10
2DF0301T.D	SV3549	SDGa00366	1	a		
2SMH0301.D	SV3588	SDGa00195	1	a		
2AMH0301.D	SV3573	SDGa00195	1	a		
2NMH0301.D	SV3541	SDGa00195	1	a		
QCMRL.D	SV3584	SDGa00195	1	a		
LV4J21AA.D	INTRA-LAB BLANK	A0B260000	1	a	02/26	
LV4J31AA.D	INTRA-LAB BLANK	A0B260000	1	a	02/26	
LV4J21AC.D	INTRA-LAB CHECK	A0B260000	1	a	02/26	
LV4J31AC.D	INTRA-LAB CHECK	A0B260000	1	a	02/26	
LV3JM1AD.D	ATASB-008-5135-SO	A0B250453	1	a	02/26	
QCMRL2.D	SV3584	SDGa00195	1	a		
LV21D1AA.D	INTRA-LAB BLANK	A0B250000	1	a	02/25	
LV21D1AC.D	INTRA-LAB CHECK	A0B250000	1	a	02/25	
LV4JX1AA.D	INTRA-LAB BLANK	A0B260000	1	a	02/26	
LV4JX1AC.D	INTRA-LAB CHECK	A0B260000	1	a	02/26	
LV4JW1AA.D	INTRA-LAB BLANK	A0B260000	1	a	02/26	
LV4JW1AC.D	INTRA-LAB CHECK	A0B260000	1	a	02/26	
LV4J01AA.D	INTRA-LAB BLANK	A0B260000	1	a	02/26	
LV4J01AC.D	INTRA-LAB CHECK	A0B260000	1	a	02/26	
LV4J01AD.D	INTRA-LAB CHECK	A0B260000	1	a	02/26	
LV2AJ1AD.D	CS-D3-729	A0B240477	1	a	02/25	
LV2AM1AD.D	CS-D3-729A	A0B240477	1	a	02/25	
LV2AN1AD.D	CS-F2-729	A0B240477	1	a	02/25	
LV3P41AC.D	MW-9	A0B250481	1	a	02/26	
LV3DA1AF.D	W5(32.5-35)-022210	A0B250428	1	a	02/26	

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4ag2.i

Method 8270C 625 | IS#: SV3548 | Date: 01-MAR-2010 07:27

MeCL2 Lot#: H50J00 | Operator: 046900

GC Program #: 2

Data File	Client ID-STD #	Sample ID	DF	QUAL	Prep	Comments
LV3DA1A2.D	W5(32.5-35)-022210	A0B250428	1	a	02/26	
LV3DA1A3.D	W5(32.5-35)-022210	A0B250428	1	a	02/26	
LV3DC1AF.D	W6(20-22.5)-022310	A0B250428	25/100	(reen)	02/26	5t.
LV3CK1AD.D	W4(30-32.5)-022210	A0B250428	1	(reen)	02/26	5t.
LV3DE1AF.D	U8(30-32.5)-022410	A0B250428	5t2/100	a	02/26	
LV3DH1AF.D	U7(42.5-45)-022410	A0B250428	5t10/100	(reen)	02/26	5t5
LV10K1A5.D	S-14748-022310-CP-0	A0B240425	5t2/100	a	02/25	
LV10K1D3.D	S-14748-022310-CP-0	A0B240425	5t2/100	a	02/25	
LV10K1D4.D	S-14748-022310-CP-0	A0B240425	5t2/100	a	02/25	
LV3QF1AA.D	OUTFALL #003	A0B250487	1	a	02/26	
LV3QL1AA.D	OUTFALL #003 (EXTRA	A0B250487	1	a	02/26	
LV3T01AA.D	ERICO	A0B250505	1	a	02/26	

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
4523B	10-15-08	10-16-09	Pest TCLP spike	WAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
—	Y N	—		PASS FAIL

SOURCE STICKER	COMMENTS
	Re-confirmed with Batch # 9195035 on 7-14-09.

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
—	7-23-09	5-2010	BNA Restek spike	WAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
6-30-09	(Y) N	—	—	PASS FAIL

SOURCE STICKER	COMMENTS
Restek Catalog# 554203 Received 6-30-09 Sonicate ampule 15 minutes prior to opening Custom Spike Mix 100 ug/mL each in Acetone/Methylene Chloride (95:5) Lot # A087710 Exp. Date: 05/2010 Restek Corporation 110 Benner Circle - Bellefonte, PA 16823 FOR LABORATORY USE ONLY	New lot placed into service on 7-23-09

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
4596	9-9-09	3-9-10	2,4,2 surr.	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
200 ug/mL	2mL	2000 mL	.02 ug/mL	1 & 2

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
6-26-09	(Y) N	MeOH #G49E42	9-9-09	(PASS) FAIL

SOURCE STICKER	COMMENTS
ISM-320-1 rec'd 6-26-09 Vials 1&2 Lot: CE-0161 ULTRA 1 mL Exp: 02/28/2011 Pesticides Surrogate Standard Spiking Solution 2 analyte(s) at 200 µg/mL in acetone 250 Smith St, No Kingstown, RI 02852 USA For Lab Use Only	

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
N/A	8-6-09	7/2010	BNA LCS Mix 1 Custom spike	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
7-29-09	(Y) N			PASS FAIL

SOURCE STICKER	COMMENTS
NOTEBOOK INSERT LABEL 8270 LCS Mix 1 46853-U Lot: LB68376 EXP: JUL/2010 STORAGE: FREEZE 1 x 25ml DATE RECEIVED: 7-29-09 SUPELCO Analytical 595 North Harrison Road • Bellefonte, PA 16823-0048 USA • Phone 814-359-3441	New lot placed into service on 8-6-09

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
—	9-28-09	6/2012	BNA Surr	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
9-8-09	(Y) N	—	—	PASS FAIL

SOURCE STICKER

NOTEBOOK INSERT LABEL

Semi-volatile Acid/Base Surrogate Spike (Low) 86-1143
Lot: LB68015 EXP: JUN/2012 STORAGE: REFRIGERATE 1 x 100ml
DATE RECEIVED: 9-8-09

SUPELCO Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone 814-359-3441

COMMENTS

New lot placed into service on 9-28-09

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
	Y N			PASS FAIL

SOURCE STICKER

COMMENTS

Certificate of Analysis

Rec'd (3) 6-11-09
Rec'd (1) 7-1-09

DESCRIPTION: Semi-volatile Acid/Base Surrogate Spike (Low)

CATALOG NO.: 861143 MFG DATE: May-2009

LOT NO.: LB66441 EXPIRATION DATE: May-2012

SOLVENT: METHANOL:METHYLENE CHLORIDE(90:10)

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4)		STD DEV	SUPELCO LOT NO
NITROBENZENE-D5	4165-60-0	99.9	100.0	102.3	+/-	2.00	LB47918
P-TERPHENYL-D14	1718-51-0	99.7	100.1	96.6	+/-	1.61	LB57645
PHENOL-D6	13127-88-3	99.9	150.0	154.8	+/-	3.46	LB60944
1,2-DICHLOROBENZENE-D4	2199-69-1	99.9	100.1	103.6	+/-	1.94	LB44579
2-CHLOROPHENOL D4	93951-73-6	99.9	150.1	154.7	+/-	3.71	LB35893
2-FLUOROBIPHENYL	321-60-8	98.6	100.1	102.6	+/-	1.41	LB61028
2-FLUOROPHENOL	367-12-4	99.4	150.1	154.6	+/-	3.46	LB53354
2,4,6-TRIBROMOPHENOL	118-79-6	99.9	150.0	150.9	+/-	1.83	LB59603

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

Rec'd. (2)
9-21-09

DESCRIPTION: Semi-volatile Acid/Base Surrogate Spike (Low)

CATALOG NO.: 861143 MFG DATE: Jun-2009

LOT NO.: LB68015 EXPIRATION DATE: Jun-2012

SOLVENT: METHANOL:METHYLENE CHLORIDE(90:10)

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
NITROBENZENE-D5	4165-60-0	99.9	100.0	100.9	+/-	3.68	LB47918
P-TERPHENYL-D14	1718-51-0	99.7	100.0	94.0	+/-	2.66	LB57645
PHENOL-D6	13127-88-3	99.9	150.0	150.0	+/-	4.78	LB60944
1,2-DICHLOROBENZENE-D4	2199-69-1	99.9	100.0	100.0	+/-	3.79	LB44579
2-CHLOROPHENOL D4	93951-73-6	99.9	150.0	149.7	+/-	4.71	LB35893
2-FLUOROBIPHENYL	321-60-8	98.6	100.0	100.7	+/-	3.14	LB61028
2-FLUOROPHENOL	367-12-4	99.4	150.0	150.3	+/-	5.08	LB53354
2,4,6-TRIBROMOPHENOL	118-79-6	99.9	150.0	141.7	+/-	1.04	LB59603

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.

(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Rec'd (L) 10-14-09

Certificate of Composition

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 554203 **Lot No.:** A070638

Description : Custom Spike Mix

Expiration Date[1]: October 2010 **Storage:** Refrigerate

Handling: Sonicate ampule 15 minutes prior to opening

Elution Order	Compound	CAS#	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	99%	100.000 ug/ml	+/-0.59 %
2	2-Picoline	109-06-8	99%	100.000 ug/ml	+/-0.59 %
3	Ethyl methanesulfonate	62-50-0	99%	100.000 ug/ml	+/-0.59 %
4	Benzaldehyde	100-52-7	99%	100.000 ug/ml	+/-0.59 %
5	Acetophenone	98-86-2	99%	100.000 ug/ml	+/-0.59 %
6	Quinoline	91-22-5	99%	100.000 ug/ml	+/-0.59 %
7	epsilon-Caprolactam	105-60-2	99%	100.000 ug/ml	+/-0.59 %
8	2-Chloroacetophenone	532-27-4	99%	100.000 ug/ml	+/-0.59 %
9	Safrole	94-59-7	99%	100.000 ug/ml	+/-0.59 %
10	Biphenyl	92-52-4	99%	100.000 ug/ml	+/-0.59 %
11	Phorate	298-02-2	98%	99.960 ug/ml	+/-0.59 %
12	Phenacetin	62-44-2	99%	100.000 ug/ml	+/-0.59 %
13	Atrazine	1912-24-9	99%	100.000 ug/ml	+/-0.59 %
14	Pronamide (Propyzamide)	23950-58-5	98%	99.960 ug/ml	+/-0.59 %
15	Chlorobenzilate	510-15-6	98%	99.960 ug/ml	+/-0.59 %
Solvent:	Acetone/Methylene Chloride (95:5)	67-64-1/75-09-2	99%		

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

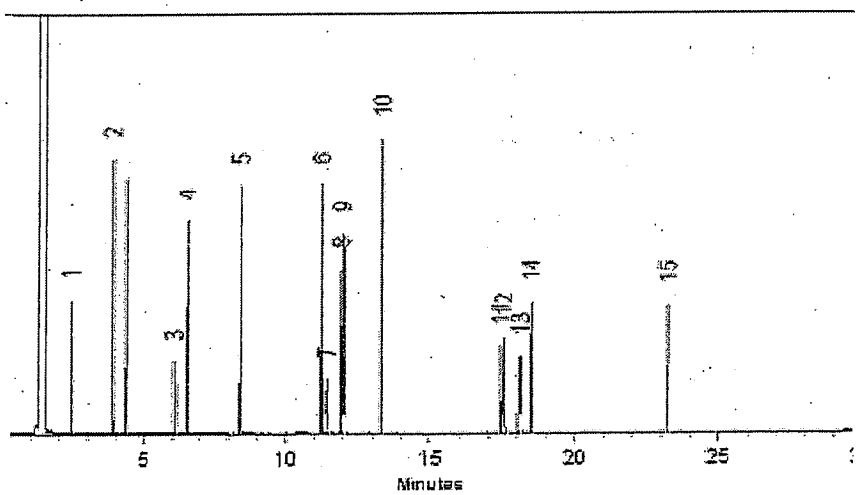
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Certificate of Analysis

DESCRIPTION: 8270 LCS Mix 1

Rec'd (8) 7-29-07

CATALOG NO.: 46853-U
LOT NO.: LB68376

MFG DATE: Jul-2009
EXPIRATION DATE: Jul-2010

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
ACENAPHTHENE	83-32-9	99.9	100.1	100.6	+/-	0.57	LB59548
ACENAPHTHYLENE	208-96-8	99.7	100.1	100.8	+/-	0.20	LB44362
ANILINE	62-53-3	99.9	100.1	116.2	+/-	4.33	LA41596
ANTHRACENE	120-12-7	99.4	100.1	101.6	+/-	0.23	LB37185
AZOBENZENE	103-33-3	99.9	100.0	100.6	+/-	0.28	LB64683
BENZO (A) ANTHRACENE	56-55-3	98.9 (a)	100.1	100.4	+/-	3.11	LB56323
BENZO (A) PYRENE	50-32-8	99.9 (a)	100.0	96.2	+/-	0.77	LB63783
BENZO (B) FLUORANTHENE	205-99-2	99.9	100.0	103.3	+/-	2.01	LB63048
BENZO (G,H,I) PERYLENE	191-24-2	99.6	100.0	103.9	+/-	4.21	LB62550
BENZO (K) FLUORANTHENE	207-08-9	99.5	100.1	99.6	+/-	2.59	LA96760
BENZOIC ACID	65-85-0	99.9	100.1	104.4	+/-	2.65	LB50692
BENZYL ALCOHOL	100-51-6	99.9	100.0	104.0	+/-	1.63	LB48374
BENZYL BUTYL PHTHALATE	85-68-7	98.6	100.0	99.4	+/-	2.89	LB60340
BIS (2-CHLOROETHOXY) METHANE	111-91-1	98.1	100.0	103.2	+/-	1.09	LB46081
BIS (2-CHLOROETHYL) ETHER	111-44-4	99.9	100.0	102.7	+/-	1.40	LB33319
BIS (2-CHLOROISOPROPYL) ETHER	108-60-1	96.4	100.0	98.5	+/-	0.52	LB62479
BIS (2-ETHYLHEXYL) PHTHALATE	117-81-7	99.7	100.0	99.5	+/-	2.60	LB58359
BIS-2-ETHYLHEXYL ADIPATE	103-23-1	99.7	100.1	101.6	+/-	2.65	LB31993
CARBAZOLE	86-74-8	99.9	100.0	100.6	+/-	1.39	LB60643

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Elwood Doughty
Quality Control Supervisor

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 8270 LCS Mix 1

CATALOG NO.: 46853-U
LOT NO.: LB68376

MFG DATE: Jul-2009
EXPIRATION DATE: Jul-2010

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
CHRYSENE	218-01-9	99.9	100.1	97.6	+/-	2.35	LB65398
DI-N-BUTYL PHTHALATE	84-74-2	99.9	100.0	99.7	+/-	1.26	LB36679
DI-N-OCTYL PHTHALATE	117-84-0	99.2	100.0	98.7	+/-	4.72	LB44969
DIBENZ (A,H) ANTHRACENE	53-70-3	99.9	100.0	102.7	+/-	4.03	LB51320
DIBENZOFURAN	132-64-9	99.9	100.0	99.9	+/-	0.07	LB64684
DIETHYL PHTHALATE	84-66-2	99.9	100.0	98.3	+/-	0.46	LB46924
DIMETHYL PHTHALATE	131-11-3	99.9	100.0	98.5	+/-	0.52	LB30494
FLUORANTHENE	206-44-0	99.7	100.1	100.9	+/-	1.51	LB36850
FLUORENE	86-73-7	99.6	100.0	99.7	+/-	0.47	LB04916
HEXACHLOROBENZENE	118-74-1	99.9	100.0	100.4	+/-	0.84	LB60010
HEXACHLOROBUTADIENE	87-68-3	96.7	100.0	103.1	+/-	0.95	LB63273
HEXACHLOROCYCLOPENTADIENE	77-47-4	98.9	100.0	103.8	+/-	0.90	LB43550
HEXACHLOROETHANE	67-72-1	99.9	100.0	102.4	+/-	0.69	LB29072
INDENO (1,2,3-CD) PYRENE	193-39-5	99.9	100.1	103.0	+/-	3.96	LB59565
ISOPHORONE	78-59-1	99.1	100.0	102.0	+/-	1.55	LB45460
N-NITROSODI-N-PROPYLAMINE	621-64-7	99.9	100.0	104.0	+/-	1.23	LB58168
N-NITROSODIMETHYLAMINE	62-75-9	99.9	100.0	101.0	+/-	0.85	LB56172
N-NITROSODIPHENYLAMINE	86-30-6	98.6	100.1	99.6	+/-	0.66	LB17295
NAPHTHALENE	91-20-3	99.4	100.0	103.8	+/-	1.13	LB59563

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Elwood Doughty
Quality Control Supervisor

SUPELCO® Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 8270 LCS Mix 1

CATALOG NO.: 46853-U
LOT NO.: LB68376

MFG DATE: Jul-2009
EXPIRATION DATE: Jul-2010

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
NITROBENZENE	98-95-3	99.9	100.0	102.4	+/-	1.31	LB47070
PENTACHLOROPHENOL	87-86-5	99.9	100.0	100.9	+/-	0.71	LB01443
PHENANTHRENE	85-01-8	95.9	100.0	101.1	+/-	0.39	LB44258
PHENOL	108-95-2	99.9	100.0	102.6	+/-	1.24	LB57703
PYRENE	129-00-0	96.6	100.1	100.4	+/-	1.46	LA74472
PYRIDINE (LOW WATER)	110-86-1	99.9	100.1	101.2	+/-	0.39	LB52622
1-METHYLNAPHTHALENE	90-12-0	99.6	100.1	103.6	+/-	1.08	LB65657
1,2-DICHLOROBENZENE	95-50-1	99.9	100.0	101.7	+/-	1.12	LA96474
1,2,-DINITROBENZENE	528-29-0	99.9	100.1	100.0	+/-	0.58	LB48085
1,2,4-TRICHLOROBENZENE	120-82-1	99.5	100.0	102.7	+/-	0.27	LB48083
1,3-DICHLOROBENZENE	541-73-1	99.9	100.0	101.5	+/-	1.35	LA72024
1,3-DINITROBENZENE	99-65-0	99.9 (a)	100.0	100.0	+/-	0.58	LA83740
1,4-DICHLOROBENZENE	106-46-7	99.9	100.0	101.3	+/-	1.08	LB68855
1,4-DINITROBENZENE	100-25-4	99.9	100.1	100.0	+/-	0.94	LB59074
2-CHLORONAPHTHALENE	91-58-7	99.4	100.0	99.3	+/-	0.53	LB48170
2-CHLOROPHENOL	95-57-8	99.2	100.0	103.5	+/-	1.08	LB43799
2-METHYL-4,6-DINITROPHENOL	534-52-1	99.9	100.0	100.5	+/-	0.99	LB31592
2-METHYLNAPHTHALENE	91-57-6	98.3	100.0	106.4	+/-	1.56	LB44448
2-METHYLPHENOL	95-48-7	99.8	100.0	103.6	+/-	2.06	LB30223

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Elwood Doughty
Quality Control Supervisor

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 8270 LCS Mix 1

CATALOG NO.: 46853-U
LOT NO.: LB68376

MFG DATE: Jul-2009
EXPIRATION DATE: Jul-2010

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
2-NITROANILINE	88-74-4	99.9	100.0	100.0	+/-	1.15	LB49936
2-NITROPHENOL	88-75-5	99.9	100.0	103.5	+/-	1.42	LB44736
2,3,4,6-TETRACHLOROPHENOL	58-90-2	99.3	100.1	97.7	+/-	0.65	LB44740
2,3,5,6-TETRACHLOROPHENOL	935-95-5	99.9	100.0	99.7	+/-	0.65	LB57701
2,4-DICHLOROPHENOL	120-83-2	99.2	100.0	103.0	+/-	1.52	LB46812
2,4-DIMETHYLPHENOL	105-67-9	99.8	100.0	101.9	+/-	1.32	LB43798
2,4-DINITROPHENOL	51-28-5	98.6	100.0	103.8	+/-	3.85	LB28389
2,4-DINITROTOLUENE	121-14-2	96.0	100.0	98.9	+/-	1.06	LB46632
2,4,5-TRICHLOROPHENOL	95-95-4	99.9	100.0	104.8	+/-	0.35	LB35288
2,4,6-TRICHLOROPHENOL	88-06-2	99.9	100.0	104.1	+/-	1.29	LB65559
2,6-DINITROTOLUENE	606-20-2	99.9	100.0	99.7	+/-	0.34	LB60882
3-METHYLPHENOL (5)	108-39-4	99.9	100.0	*****			LB33593
3-NITROANILINE	99-09-2	99.9	100.0	105.1	+/-	3.21	LB65269
3,3-DICHLOROBENZIDINE	91-94-1	99.9	100.0	95.6	+/-	2.19	LB58050
4-BROMOPHENYLPHENYL ETHER	101-55-3	98.8	100.0	100.5	+/-	0.53	LB63786
4-CHLORO-3-METHYLPHENOL	59-50-7	99.9	100.0	102.8	+/-	0.63	LB36890
4-CHLOROANILINE	106-47-8	99.9	100.0	108.8	+/-	6.99	LB19242
4-CHLOROPHENYLPHENYL ETHER	7005-72-3	99.9	100.0	98.2	+/-	0.18	LB21374
4-METHYLPHENOL (5)	106-44-5	99.9	100.0	*****			LB32518

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Elwood Doughty
Quality Control Supervisor

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 8270 LCS Mix 1

CATALOG NO.: 46853-U
LOT NO.: LB68376

MFG DATE: Jul-2009
EXPIRATION DATE: Jul-2010

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
4-NITROANILINE	100-01-6	99.9	100.0	99.0	+/-	0.49	LB42566
4-NITROPHENOL	100-02-7	99.9	100.0	99.5	+/-	2.16	LB12692

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Elwood Doughty
Quality Control Supervisor

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Rec'd. 9-25-09 (1)
Moundsville #2

Certificate of Composition

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 558557 Lot No.: A070237
Description : Custom o-Toluidine Standard
Expiration Date[1]: September 2011 Storage: Refrigerate

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	o-Toluidine	95-53-4	99%	100.000 ug/ml	+/-0.72 %
Solvent:	Acetone	67-64-1	99%		

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

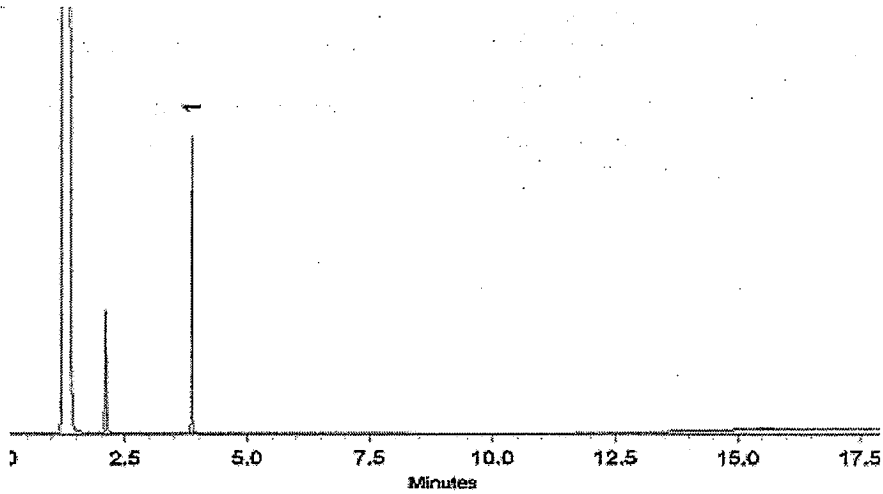
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Sara Eyster QA Analyst Date Passed: 09/23/2009 Balance: 1128342314

Manufactured under Restek's ISO 9001-2000
Registered Quality System
Certificate #FMB0397

1 Expiration date of the unopened ampule stored at recommended temperature.
2A Purity was determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to the nearest whole number. In addition to detectors listed above, chemical identity and purity are confirmed using one or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive index, and Karl Fisher. See data pack or contact Restek for further details.
2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.
2C Compounds with a listed purity of less than 99% may be salts, derivatives, or hydrates. The listed purity is actually a correction factor that was used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound.
2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.
3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels).
4 Uncertainties determined using repeatability and reproducibility data for balances and glassware from measurement systems analysis methodology, balance and glassware tolerances, raw material purity, and, where applicable, eccentricity and linearity values from an accredited calibration laboratory.

REVIEWED
By dconklin at 6:25 am, Sep 24, 2009

Moundsville #1

Certificate of Composition

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 558406 **Lot No.:** A068749

Description : Custom Spike Additions Mix

Expiration Date[1]**:** July 2012 **Storage:** Refrigerate

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	2-Methylcyclohexanone	583-60-8	98%	99.960 ug/ml	+/-0.72 %
2	3-Methylcyclohexanone	591-24-2	99%	100.000 ug/ml	+/-0.72 %
3	4-Methylcyclohexanone	589-92-4	99%	100.000 ug/ml	+/-0.72 %
Solvent:	Acetone	67-64-1	99%		

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

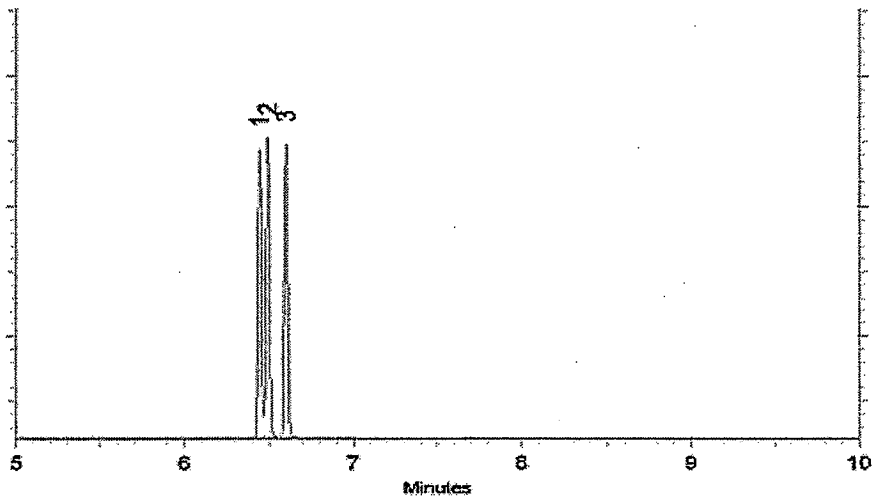
Carrier Gas:
hydrogen @ 40cm/sec.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min.

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



Diane Shaffer - QA Analyst **Date Passed:** 07/13/2009 **Balance:** 1128342313

Manufactured under Restek's ISO 9001-2000 Registered Quality System Certificate #FMB0397

1 Expiration date of the unopened ampule stored at recommended temperature.

2A Purity was determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to the nearest whole number. In addition to detectors listed above, chemical identity and purity are confirmed using one or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive index, and Karl Fisher. See data pack or contact Restek for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C Compounds with a listed purity of less than 99% may be salts, derivatives, or hydrates. The listed purity is actually a correction factor that was used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels).

4 Uncertainties determined using repeatability and reproducibility data for balances and glassware from measurement systems analysis methodology, balance and glassware tolerances, raw material purity, and, where applicable, eccentricity and linearity values from an accredited calibration laboratory.

REVIEWED By dconklin at 6:16 am, 7/14/09

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
—	9-28-09	6/2012	BNA Surr	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
9-8-09	(Y) N	—	—	PASS FAIL

SOURCE STICKER

NOTEBOOK INSERT LABEL

Semi-volatile Acid/Base Surrogate Spike (Low) 86-1143
Lot: LB68015 EXP: JUN/2012 STORAGE: REFRIGERATE 1 x 100ml
DATE RECEIVED: 9-8-09

SUPELCO Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone 814-359-3441

COMMENTS

New Lot placed into service on 9-28-09

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
4601	10-1-09	~~3-6-10~~ 12-31-09 LAH 12-9-09	NPDES Spike	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
10 ug/mL	20mL	200 mL	1 ug/mL	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
—	Y N	MeOH # G49E42	10-1-09	(PASS) FAIL

SOURCE STICKER

NPDES Spike Stock
4560 Expires ~~3 6 10~~ 12-31-09
LAH 12-9-09

COMMENTS

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
–	11-2-09	7-2012	Moundsville Spike #1	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
–	–	–	–	–

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
7-15-09	(Y) N	–	✓	PASS FAIL

SOURCE STICKER

RESTEK
Cat# 558406
Custom Spike Additions Mix
100 ug/mL each in Acetone
Lot# A068749 Exp. Date: 07/2012
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823
Made in USA
Store: Refrigerate

COMMENTS

New Lot Placed into service on 11-2-09.

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
–	11-2-09	9-2011	Moundsville Spike #2	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
–	–	–	–	–

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
9-25-09	(Y) N	–	–	PASS FAIL

SOURCE STICKER

RESTEK
Cat# 558557
Custom o-Toluidine Standard
100 ug/mL each in Acetone
Lot# A070237 Exp. Date: 09/2011
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823
Made in USA
Store: Refrigerate

COMMENTS

New Lot placed into service on 11-2-09.

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
4610	11-17-09	5-17-10	2,2 Surr	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
200 ug/mL	2 mL	2000mL	.02 ug/mL	1 & 2

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
9-15-09	(Y) N	MeOH #G49E42	11-17-09	(PASS) FAIL

SOURCE STICKER

ISM-320-1 RSC'd 9-15-09
Lot: CE-0161
Exp: 02/28/2011 Vials 1-2
ULTRA 1 mL
Pesticides Surrogate Standard Spiking Solution
2 analyte(s) at 200 µg/mL in acetone
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

COMMENTS

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
—	11-19-09	10-2010	BNA Spike	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
10-14-09	(Y) N	—	—	PASS FAIL

SOURCE STICKER

RESTEK Made in USA
Rec'd. 10-14-09
Cat# 554203
Sonicate ampule 15 minutes prior to opening
Custom Spike Mix
100 ug/mL each in Acetone/Methylene Chloride (96:5)
Lot# A070638 Exp. Date: 10/2010 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

COMMENTS

New lot placed into service on 11-19-09,

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3580 Analyst 7H

Date 10/28/09 Reviewed by

Compound (or Mixture) 0.1 ppm TCL

Source (Prep) 2ml of SV3578 +
2ml of SV3554 +
100ul SV3548 (I.S.) +
1896ul $MeCl_2$ (Lot#35J11)

Final Volume 2ml

Concentration 0.1 ppm

Solvent $MeCl_2$

Expiration Date 10/28/10

Comments

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3581 Analyst ZH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 0.5 ppm TCL

Source (Prep) 10ul of SV3578 +
10ul of SV3554 +
100ul of SV3548 (I.S.) +
1880ul MeCl2 (Lot H35J11)

Final Volume 2ml

Concentration 0.5 ppm

Solvent MeCl2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV 3582 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 1 ppm TCL

Source (Prep) 20 ul of SV3578 +
20 ul of SV3554 +
100 ul of SV3548 (IS) +
1860 ul MeCl2 (LOT H35J11)

Final Volume 2 ml

Concentration 1 ppm

Solvent MeCl2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3583 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 2 ppm TCL

Source (Prep) 40 µl SV 3578 +
40 µl SV 3554 +
100 µl SV 3548 (I.S.) +
1820 µl CH_2Cl_2 (lot: H35J11)

Final Volume 2 ml

Concentration 2 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3584 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 5 ppm TCL

Source (Prep) 100 ul of SV3578 +
100 ul of SV3554 +
100 ul of SV3548 (I.S.) +
1700 ul MeCl2 (Lot H35J11)

Final Volume 2ml

Concentration 5 ppm

Solvent MeCl2

Expiration Date 10/29/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV 3585 Analyst ff

Date 10/28/09 Reviewed by

Compound (or Mixture) 10 ppm TCL

Source (Prep) 200 ul SV 3578 +
200 ul SV 3554 +
100 ul SV 3548 (1.5) +
1500 ul CH_2Cl_2 (Lot: H35J11)

Final Volume 2ml

Concentration 10 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3586 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 15 ppm TCL

Source (Prep) 300ul SV3578 +
300ul SV3554 +
100ul SV3548 (I.S.) +
1300ul CH_2Cl_2 (Lot H35J11)

Final Volume 2ml

Concentration 15 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3587 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 20 ppm TCL

Source (Prep) 400 ul SV 3578 +
400 ul SV 3554 +
100 ul SV 3548 (I.S.) +
1100 ul CH_2Cl_2 (lot: H35J11)

Final Volume 2ml

Concentration 20 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3588 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 25 ppm TCL

Source (Prep) 500ul of SV3578 +
500ul of SV3554 +
100ul of SV3548 (7.5) +
900ul CH_2Cl_2 (Lot H35J11)

Final Volume 2 ml

Concentration 25 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3589 Analyst ZH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 10 ppm TCL (second source)

Source (Prep) 200 µl SV3579 +
200 µl SV3554 +
100 µl SV3548 (I.S.) +
1500 µl CH_2Cl_2 (lot: H35J11)

Final Volume 2ml

Concentration 10 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SX3578 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 100 ppm STOCK TCL STD

Source (Prep) MIX 1 LOT A070830 (400 ppm) +
MIX 2 LOT A064398 (400 ppm) +
MIX 3 LOT A064140 (400 ppm) +
MIX 4 LOT ~~A063874~~ 59704 (400 ppm)
(1:1:1:1)
TH

Final Volume _____

Concentration 100 ppm

Solvent MeCl2

Expiration Date 11/10

Comments _____

RESTEK Made in USA
Cat# 555252
Custom Revised 8270 Mix #1 / 2 pack
400 ug/mL each in Methylene Chloride
Lot# A070830 Exp. Date: 10/2014 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57833
Custom Revised 8270 Mix # 2
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A064398 Exp. Date: 11/2010 Store: Freezer
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57834
Custom Revised 8270 Mix # 3
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A064140 Exp. Date: 11/2011 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57835
Custom Revised 8270 Mix #4
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A059704 Exp: 04/2011 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. IV3579 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 100 ppm STOCK TCL STD

Source (Prep) MIX 1 LOT A070849 (400 ppm) +
MIX 2 LOT A064613 (400 ppm) +
MIX 3 LOT A064141 (400 ppm) +
MIX 4 LOT ~~A063882~~ 59711 (400 ppm)
(1:1:1:1) TH

Final Volume _____

Concentration 100 ppm

Solvent MeCl2

Expiration Date 12/10

Comments _____

RESTEK Made in USA
Cat# 555252
Custom Revised 8270 Mix #1 / 2 pack
400 ug/mL each in Methylene Chloride
Lot# A070849 Exp. Date: 10/2014 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57833
Custom Revised 8270 Mix # 2
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A064613 Exp. Date: 12/2010 Store: Freezer
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57834
Custom Revised 8270 Mix # 3
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A064141 Exp. Date: 11/2011 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57835
Custom Revised 8270 Mix #4
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A059711 Exp: 04/2011 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3548 Analyst ZH

Date 9/11/09 Reviewed by MV 9/12/09

Compound (or Mixture) 80 ppm Internal Stds Mix

Source (Prep) 1 ml of ULTRA Lot: CE-3317 (4,000 ug/ml) + 49 ml MeCl2 (Lot H25J02)

Final Volume 50 ml

Concentration 80 ppm

Solvent MeCl2

Expiration Date 3/11/10

Comments

US-108N
Lot: CE-3317
Exp: 10/31/2011
ULTRA
1 mL
Semi-Volatiles Internal Standard Mixture
6 analyte(s) at 4000 µg/mL in dichloromethane
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3554 Analyst ZH

Date 9/14/09 Reviewed by MU 9/19/09

Compound (or Mixture) 100 ppm Supplemental Std

Source (Prep) 200ul of Lot B7040078 (5,000 ppm 2,4-Dinitrophenol) + 500ul of Lot B6030010 (2,000 ppm Benzoic Acid) + 500ul of Lot B3010100 (2,000 ppm Pentachlorophenol) + 8.8 ml CH_2Cl_2 (Lot H25J02)

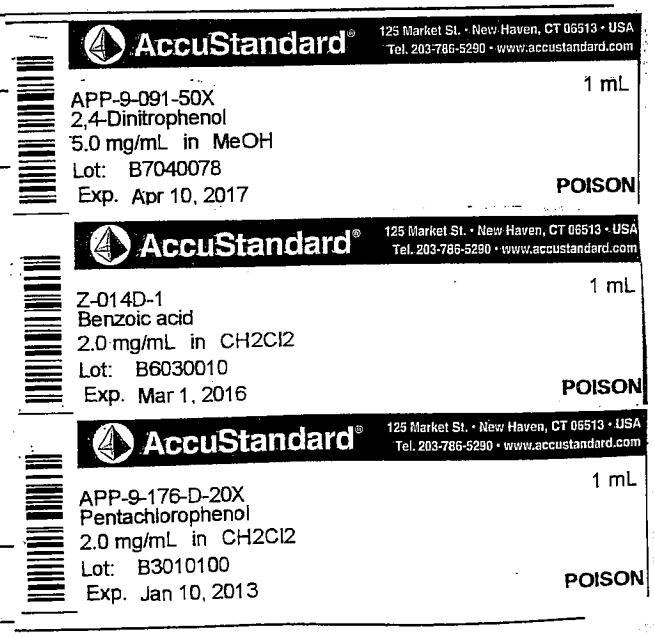
Final Volume 10ml

Concentration 100 ppm

Solvent CH_2Cl_2

Expiration Date 3/14/09 10

Comments ZH 9/14/09



North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/8/2010
Time: 13:53:57

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct &
			_	_	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 401204 Michele Arteno

Concentrationist: 404000 Chris Coast

Reviewer/Date: COASTC / 2/27/10

QC BATCH: 0057040

PREP DATE: 2/26/10
COMP DATE: 2/27/10

Base/Neutrals and Acids (8270C)
SOXHLET (NONE,Na2SO4)
SW846 3540C

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/04/10	A0B250453-002 **LV3JM-1-AD**	D	11	QL	SOLID	30.18g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	0/0/0	A0B260000-040 **LV4J3-1-AA B**		11	QL	SOLID	30.00g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	0/0/0	A0B260000-040 **LV4J3-1-AC C**		11	QL	SOLID	30.00g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML #A070638/72456 .2ML BNA SURR #69831
COMMENTS:															

S&S BY MMA
DCM/ACE #J03E07 NA2S04 #H35594 BALANCE #B025
ASSOC QC W/0057039

NUMBER OF WORK ORDERS IN BATCH: 3

638

Lot/SDG Number: **A0B250453**

Sample Control Chain of Custody - TAL North Canton
GC/MS Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0B250453-002	LV3JM1AD	Base/Neutrals and Acids (8270C)	02/26/10	Michele Arteno	02/27/10	Chris Coast	03/01/10	Thomas Hula

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PESTICIDE DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8081A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B250453

Extraction: XXA11QJWA

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	ATASB-008-5135-SO	88	90	00
02	METHOD BLK. LV4JR1AA	85	90	00
03	LCS LV4JR1AC	85	99	00
04	ATASB-008-5135-SO D	85	85	00
05	ATASB-008-5135-SO S	85	89	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(70-125)
SRG02	= Decachlorobiphenyl	(55-130)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4JR1AC
BATCH: 0057031

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	33	29	87	60- 125	
Heptachlor	33	27	80	50- 140	
Aldrin	33	29	86	45- 140	
Dieldrin	33	31	94	65- 125	
Endrin	33	32	96	60- 135	
4,4'-DDT	33	31	94	45- 140	
alpha-BHC	33	29	88	60- 125	
beta-BHC	33	28	83	60- 125	
delta-BHC	33	30	91	55- 130	
Heptachlor epoxide	33	29	88	65- 130	
Endosulfan I	33	26	77	15- 135	
4,4'-DDE	33	32	95	70- 125	
Endosulfan II	33	27	80	35- 140	
4,4'-DDD	33	31	93	30- 135	
Endosulfan sulfate	33	31	94	60- 135	
Methoxychlor	33	31	95	55- 145	
Endrin ketone	33	29	87	65- 135	
Endrin aldehyde	33	26	79	35- 145	
alpha-Chlordane	33	30	89	65- 120	
gamma-Chlordane	33	30	89	65- 125	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: ATASB-008-5135-SO

Lot #: A0B250453 WO #: LV3JM1A8
BATCH: 0057031

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
gamma-BHC (Lindane)	35	ND	31	87	60- 125	
Heptachlor	35	ND	26	72	50- 140	
Aldrin	35	ND	30	85	45- 140	
Dieldrin	35	ND	31	88	65- 125	
Endrin	35	ND	32	92	60- 135	
4,4'-DDT	35	ND	31	89	45- 140	
alpha-BHC	35	ND	32	89	60- 125	
beta-BHC	35	ND	29	81	60- 125	
delta-BHC	35	ND	31	88	55- 130	
Heptachlor epoxide	35	ND	30	84	65- 130	
Endosulfan I	35	ND	26	73	15- 135	
4,4'-DDE	35	ND	32	91	70- 125	
Endosulfan II	35	ND	27	77	35- 140	
4,4'-DDD	35	ND	32	90	30- 135	
Endosulfan sulfate	35	ND	32	92	60- 135	
Methoxychlor	35	ND	26	75	55- 145	
Endrin ketone	35	ND	34	97	65- 135	
Endrin aldehyde	35	ND	25	71	35- 145	
alpha-Chlordane	35	ND	29	83	65- 120	
gamma-Chlordane	35	ND	29	83	65- 125	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: ATASB-008-5135-SO

Lot #: A0B250453 WO #: LV3JM1A9
BATCH: 0057031

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	35	30	85	1.9	36	60- 125	
Heptachlor	35	26	74	2.7	44	50- 140	
Aldrin	35	30	84	1.7	40	45- 140	
Dieldrin	35	31	89	0.85	33	65- 125	
Endrin	35	33	92	0.45	38	60- 135	
4,4'-DDT	35	32	91	2.8	42	45- 140	
alpha-BHC	35	31	87	2.6	40	60- 125	
beta-BHC	35	28	78	3.5	43	60- 125	
delta-BHC	35	31	87	2.1	34	55- 130	
Heptachlor epoxide	35	29	83	1.8	43	65- 130	
Endosulfan I	35	26	72	1.0	41	15- 135	
4,4'-DDE	35	32	91	0.060	39	70- 125	
Endosulfan II	35	26	75	2.9	27	35- 140	
4,4'-DDD	35	32	90	0.10	35	30- 135	
Endosulfan sulfate	35	32	90	2.1	34	60- 135	
Methoxychlor	35	34	97	26	41	55- 145	
Endrin ketone	35	30	84	14	32	65- 135	
Endrin aldehyde	35	25	71	0.71	29	35- 145	
alpha-Chlordane	35	29	82	0.50	65	65- 120	
gamma-Chlordane	35	29	83	0.76	36	65- 125	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV4JR1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: 010F1001.

Lot Number: A0B250453

Matrix: SOLID

Extraction Method: 3540C

Date Extracted: 02/26/10

Date Analyzed(1): 03/02/10

Date Analyzed(2): N/A

Time Analyzed(1): 04:32

Time Analyzed(2): N/A

Instrument ID(1): P9

Instrument ID(2): N/A

GC Column(1): RTXPESTCLP ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	ATASB-008-5135-SO	LV3JM1AE	03/02/10	N/A
02	ATASB-008-5135-SO	LV3JM1A8 S	03/02/10	N/A
03	ATASB-008-5135-SO	LV3JM1A9 D	03/02/10	N/A
04	CHECK SAMPLE	LV4JR1AC C	03/02/10	N/A
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

GC Semivolatiles

Lot-Sample #...: A0B250453-002 **Work Order #...:** LV3JM1AE **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
Prep Date.....: 02/26/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0057031
Dilution Factor: 1 **Initial Wgt/Vol:** 30.16 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 5.9 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	4.3	ug/kg	1.3
alpha-BHC	ND	2.7	ug/kg	0.78
beta-BHC	ND	3.7	ug/kg	1.2
delta-BHC	ND	4.3	ug/kg	1.3
gamma-BHC (Lindane)	ND	2.7	ug/kg	0.79
alpha-Chlordane	ND	3.2	ug/kg	1.0
gamma-Chlordane	ND	1.8	ug/kg	0.45
4,4'-DDD	ND	2.1	ug/kg	0.66
4,4'-DDE	ND	1.8	ug/kg	0.41
4,4'-DDT	ND	2.1	ug/kg	0.67
Dieldrin	ND	1.8	ug/kg	0.50
Endosulfan I	ND	1.8	ug/kg	0.55
Endosulfan II	ND	2.7	ug/kg	0.87
Endosulfan sulfate	ND	3.2	ug/kg	0.92
Endrin	ND	1.8	ug/kg	0.53
Endrin aldehyde	ND	3.2	ug/kg	1.1
Endrin ketone	ND	2.1	ug/kg	0.67
Heptachlor	ND	3.7	ug/kg	1.2
Heptachlor epoxide	ND	2.7	ug/kg	0.85
Methoxychlor	ND	5.3	ug/kg	1.6
Toxaphene	ND	71	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(70 - 125)
Decachlorobiphenyl	90	(55 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\007F0701.D
Lab Smp Id: LV3JM1AE Client Smp ID: ATASB-008-5135-SO
Inj Date : 02-MAR-2010 03:23
Operator : 001754 Inst ID: a2hp9.i
Smp Info : LV3JM1AE
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 04-Mar-2010 06:34 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.160	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene			CAS #: 877-09-8				
3.751	3.744	0.007	1940459	0.01592	0.1592		
2 Hexachlorobenzene			CAS #: 118-74-1				
4.268	4.285	-0.017	53984				
3 Diallate			CAS #: 2303-16-4				
4.345	4.369	-0.024	61357			0.00- 20.00	100.00
4.559	4.544	0.015	22575			0.00- 20.00	36.79
4 alpha-BHC			CAS #: 319-84-6				
4.447	4.442	0.005	54893	3e-004	0.09038		
5 gamma-BHC (Lindane)			CAS #: 58-89-9				

Peaks not detected for Quant. or Qual. signal(s).

```
    6 beta-BHC                                    CAS #: 319-85-7
5.003    5.001    0.002           22100  5e-004   0.1640
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
5.251	5.242	0.009	25061	1e-004	0.04602		
		Sum of Peak Concentrations =			0.04602		
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
Peaks not detected for Quant. or Qual. signal(s).							
10 Aldrin					CAS #: 309-00-2		
6.081	6.072	0.009	1093894	0.00640	2.121		
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.133	8.108	0.025	63149	0.00115	0.3807		
15 Endosulfan I					CAS #: 959-98-8		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
Peaks not detected for Quant. or Qual. signal(s).							
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							
18 Endrin					CAS #: 72-20-8		

9.325   9.315   0.010   6383 1e-004 0.03776

---

19 Kepone   CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

20 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

10.487	10.502	-0.015		8928	2e-004	0.06460	

---

26 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

11.195	11.204	-0.009		38592	3e-004	0.1087	

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$	30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.166	13.158	0.008		1043669	0.01672	0.1672		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\007F0701.D

Date : 02-MAR-2010 03:23

Client ID: ATASB-008-5135-SO

Instrument: a2hp9.i

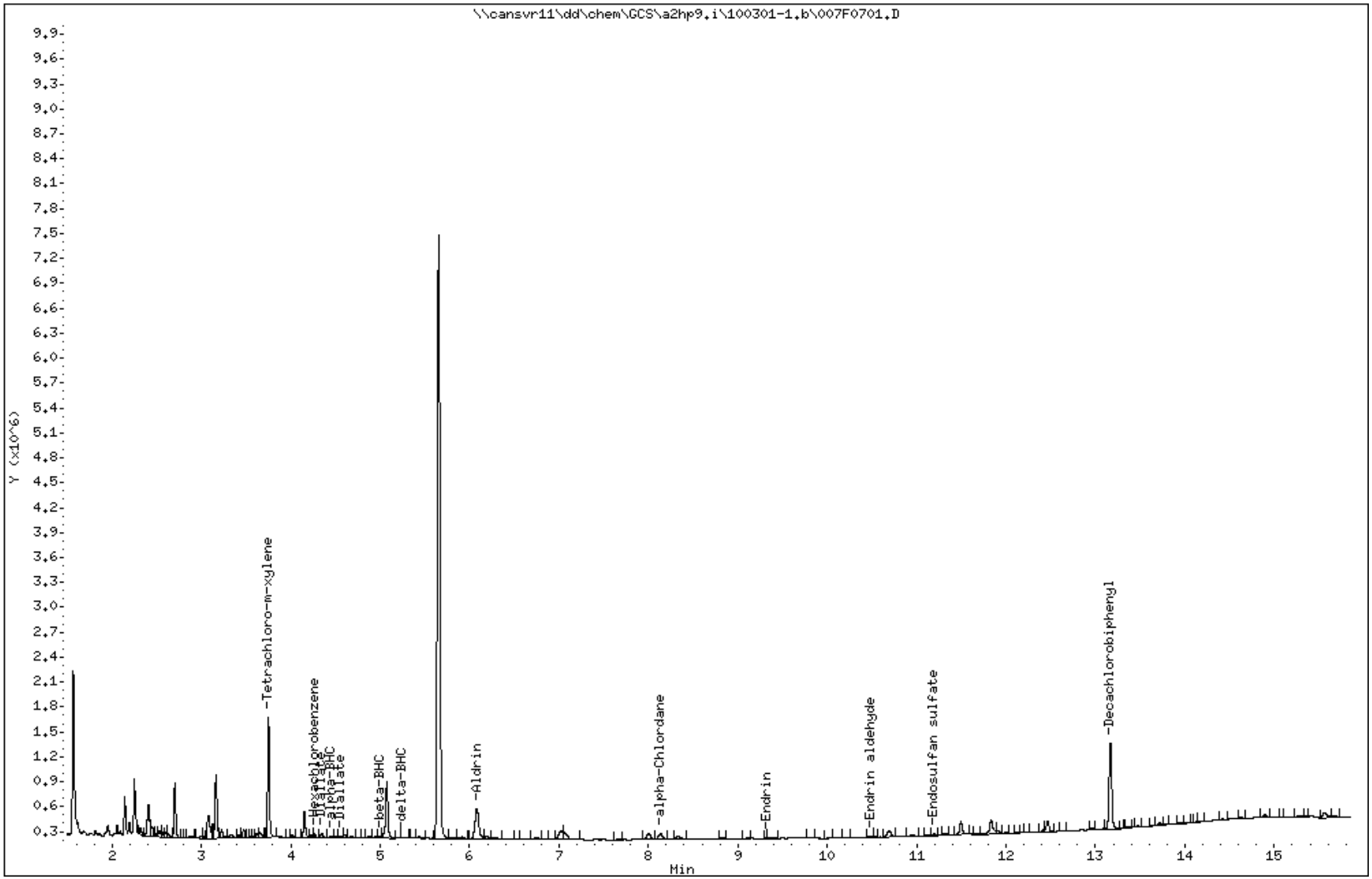
Sample Info: LV3JM1AE

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 03:23
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/007F0701.D
Lab Sample ID: LV3JM1AE
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	3.751	1940459	0.016	0.159 ug/Kg
2)	Hexachlorobenzene	4.269	89783	0.000	0.000 ug/Kg
3)	Diallate	4.345	115636	0.000	0.000 ug/Kg
4)	alpha-BHC	4.447	54893	0.000	0.090 ug/Kg
5)	gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 4.856		
6)	beta-BHC	5.004	40283	0.000	0.164 ug/Kg
7)	delta-BHC	5.251	25061	0.000	0.046 ug/Kg
9)	Tech Chlordane	NOT DETECTED	Expected RT = 5.432		
8)	Heptachlor	NOT DETECTED	Expected RT = 5.558		
10)	Aldrin	6.081	1093894	0.006	2.121 ug/Kg
11)	Isodrin	NOT DETECTED	Expected RT = 6.872		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 7.482		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 7.789		
14)	alpha-Chlordane	8.134	196201	0.001	0.381 ug/Kg
15)	Endosulfan I	NOT DETECTED	Expected RT = 8.366		
16)	4,4'-DDE	NOT DETECTED	Expected RT = 8.443		
17)	Dieldrin	NOT DETECTED	Expected RT = 8.886		
18)	Endrin	9.325	8801	0.000	0.038 ug/Kg
19)	Kepone	NOT DETECTED	Expected RT = 9.500		
20)	4,4'-DDD	NOT DETECTED	Expected RT = 9.638		
22)	Endosulfan II	NOT DETECTED	Expected RT = 9.740		
21)	Chlorobenzilate	NOT DETECTED	Expected RT = 9.844		
24)	Toxaphene	NOT DETECTED	Expected RT = 9.866		
23)	4,4'-DDT	NOT DETECTED	Expected RT = 10.130		
25)	Endrin aldehyde	10.487	21816	0.000	0.065 ug/Kg
26)	Mirex	NOT DETECTED	Expected RT = 10.813		
27)	Methoxychlor	NOT DETECTED	Expected RT = 11.035		
28)	Endosulfan sulfate	11.195	38592	0.000	0.109 ug/Kg
29)	Endrin ketone	NOT DETECTED	Expected RT = 11.599		
30)	Decachlorobiphenyl	13.166	2230269	0.017	0.167 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\007F0701.D
Lab Smp Id: LV3JM1AE Client Smp ID: ATASB-008-5135-SO
Inj Date : 02-MAR-2010 03:23
Operator : 001754 Inst ID: a2hp9.i
Smp Info : LV3JM1AE
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 04-Mar-2010 06:44 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.160	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.328	4.327	0.001	929150	0.01763	0.1763		
2 Diallate						CAS #: 2303-16-4	
Peaks not detected for Quant. or Qual. signal(s).							
3 Hexachlorobenzene						CAS #: 118-74-1	
5.079	5.104	-0.025	19437				
4 alpha-BHC						CAS #: 319-84-6	
5.237	5.230	0.007	6987	1.e-004	0.03437		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
Peaks not detected for Quant. or Qual. signal(s).							

```
--------------------------------------------------------------------------------
    6 beta-BHC                                    CAS #: 319-85-7
6.094    6.074    0.020          213164 0.00463    1.534
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
9 Tech Chlordane					CAS #: 57-74-9		
6.489	6.487	0.002	9744	0.00782	2.592	0.00- 20.00	100.00
8.112	8.111	0.001	48747	0.03626	12.02	0.00- 20.00	500.28
9.437	9.407	0.030	3678	9e-004	0.3098	0.00- 20.00	37.75
9.690	9.695	-0.005	4639	0.00138	0.4592	0.00- 20.00	47.61
Average of Peak Concentrations =					3.846		
7 delta-BHC					CAS #: 319-86-8		
6.736	6.717	0.019	32741	3e-004	0.1033		
8 Heptachlor					CAS #: 76-44-8		

Peaks not detected for Quant. or Qual. signal(s).

10 Aldrin					CAS #: 309-00-2		

Peaks not detected for Quant. or Qual. signal(s).

11 Isodrin					CAS #: 465-73-6		

Peaks not detected for Quant. or Qual. signal(s).

12 Heptachlor epoxide					CAS #: 1024-57-3		

Peaks not detected for Quant. or Qual. signal(s).

13 gamma-Chlordane					CAS #: 5103-74-2		
9.437	9.407	0.030	11283	0.00013	0.04324		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.690	9.695	-0.005	10514	1e-004	0.04090		
15 Endosulfan I					CAS #: 959-98-8		
9.780	9.758	0.022	16800	2e-004	0.07021		
16 4,4'-DDE					CAS #: 72-55-9		

Peaks not detected for Quant. or Qual. signal(s).

17 Dieldrin					CAS #: 60-57-1		

Peaks not detected for Quant. or Qual. signal(s).

19 Chlorobenzilate					CAS #: 510-15-6		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

11.072	11.085	-0.013	10344	2e-004	0.05890		

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Operator disabled compound identification.

---

24 4,4'-DDT CAS #: 50-29-3

11.568	11.567	0.001	11321	0.00021	0.06973		

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

12.075	12.096	-0.021	3790	1e-004	0.04046		

---

28 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

12.822	12.834	-0.012	29168	8e-004	0.2580		

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

14.588	14.584	0.004	1185291	0.01799	0.1799		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\007F0701.D

Date : 02-MAR-2010 03:23

Client ID: ATASB-008-5135-SO

Instrument: a2hp9.i

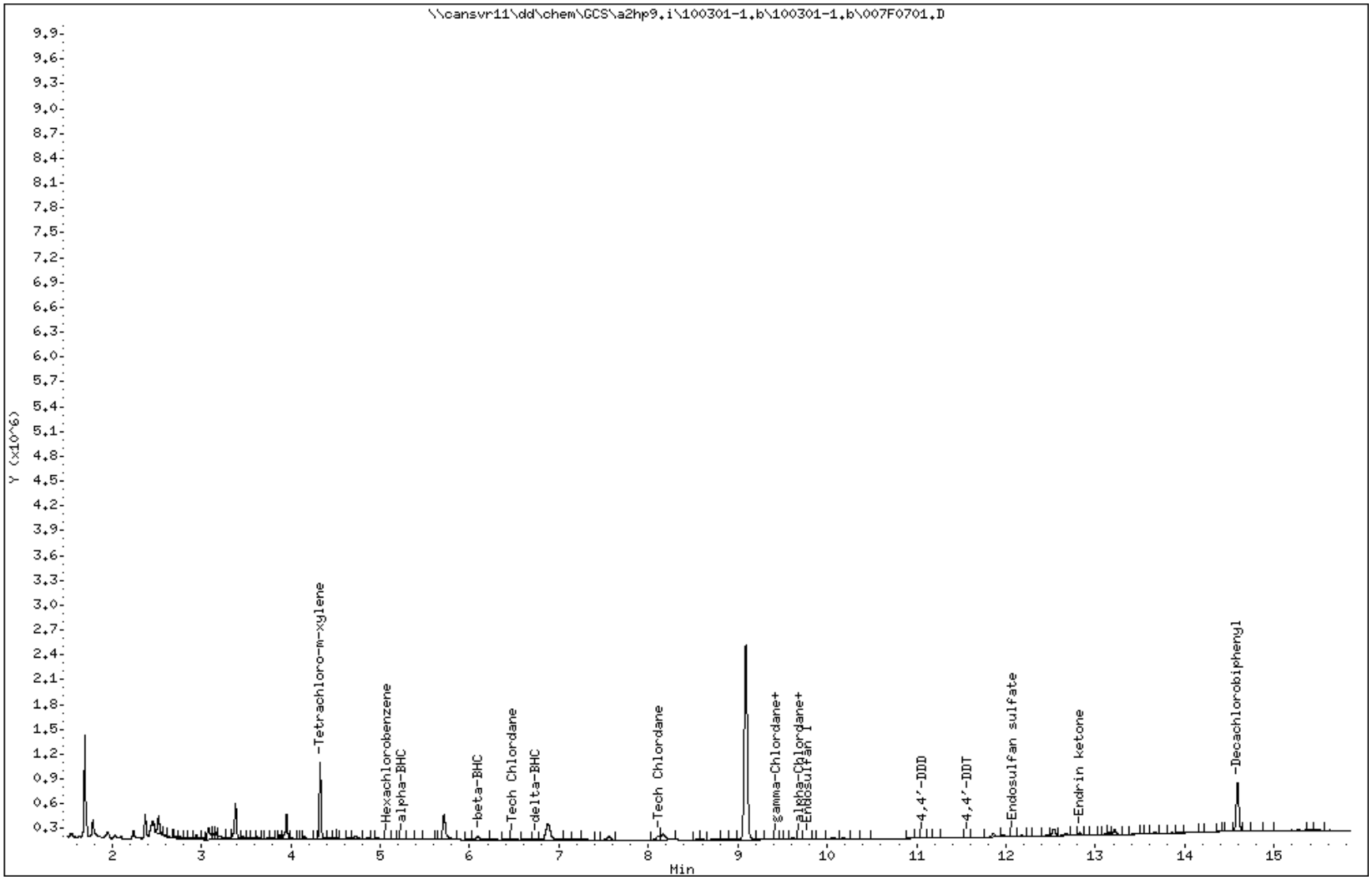
Sample Info: LV3JM1AE

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 03:23
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/007F0701.D
Lab Sample ID: LV3JM1AE
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.329	1284220	0.018	0.176 ug/Kg
2)	Diallate	NOT DETECTED	Expected RT = 5.042		
3)	Hexachlorobenzene	5.080	19437	0.000	0.000 ug/Kg
4)	alpha-BHC	5.238	18968	0.000	0.034 ug/Kg
5)	gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 5.873		
6)	beta-BHC	6.095	213164	0.005	1.534 ug/Kg
9)	Tech Chlordane	6.490	47610	0.008	2.592 ug/Kg
7)	delta-BHC	6.736	32741	0.000	0.103 ug/Kg
8)	Heptachlor	NOT DETECTED	Expected RT = 6.830		
10)	Aldrin	NOT DETECTED	Expected RT = 7.651		
11)	Isodrin	NOT DETECTED	Expected RT = 8.771		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 9.019		
13)	gamma-Chlordane	9.437	11283	0.000	0.043 ug/Kg
14)	alpha-Chlordane	9.690	10514	0.000	0.041 ug/Kg
15)	Endosulfan I	9.780	16800	0.000	0.070 ug/Kg
16)	4,4'-DDE	NOT DETECTED	Expected RT = 10.108		
17)	Dieldrin	NOT DETECTED	Expected RT = 10.260		
18)	Endrin	NOT DETECTED	Expected RT = 10.762		
19)	Chlorobenzilate	NOT DETECTED	Expected RT = 11.058		
21)	4,4'-DDD	11.072	10344	0.000	0.059 ug/Kg
20)	Kepone	NOT DETECTED	Expected RT = 11.090		
22)	Endosulfan II	NOT DETECTED	Expected RT = 11.124		
23)	Toxaphene	NOT DETECTED	Expected RT = 11.274		
24)	4,4'-DDT	11.569	11321	0.000	0.070 ug/Kg
25)	Endrin aldehyde	NOT DETECTED	Expected RT = 11.674		
26)	Endosulfan sulfate	12.075	8546	0.000	0.040 ug/Kg
27)	Methoxychlor	NOT DETECTED	Expected RT = 12.621		
29)	Endrin ketone	12.823	50045	0.001	0.258 ug/Kg
28)	Mirex	NOT DETECTED	Expected RT = 12.864		
30)	Decachlorobiphenyl	14.589	1185291	0.018	0.180 ug/Kg

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 23-Feb-2010 07:08

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Start Cal Date: 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
22-FEB-2010 11:49	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\003F0301.D
04-FEB-2010 12:33	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\008F0801.D
04-FEB-2010 10:17	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\003F0301.D
Cal Level: 2 , Cal Amount: 0.01000		
22-FEB-2010 12:13	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\004F0401.D
04-FEB-2010 12:59	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\009F0901.D
04-FEB-2010 10:42	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\004F0401.D
Cal Level: 3 , Cal Amount: 0.02500		
22-FEB-2010 12:38	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\005F0501.D
04-FEB-2010 13:24	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\010F1001.D
04-FEB-2010 11:07	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\005F0501.D
Cal Level: 4 , Cal Amount: 0.05000		
22-FEB-2010 13:03	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\006F0601.D
04-FEB-2010 13:49	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\011F1101.D
04-FEB-2010 11:41	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\006F0601.D
Cal Level: 5 , Cal Amount: 0.10000		
22-FEB-2010 13:27	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\007F0701.D
04-FEB-2010 15:06	16-toxaph	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\014F1401.D

04-FEB-2010 14:15	15-TECHLOR	
\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\012F1201.D		

Cal Level: 6 , Cal Amount: 0.20000		
22-FEB-2010 13:53	1-AB	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\008F0801.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

22-FEB-2010 14:43	1-ab	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\010F1001.D		
22-FEB-2010 14:18	1-AB	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\009F0901.D		
22-FEB-2010 20:30	1-AB	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\024F2401.D		
22-FEB-2010 15:08	16-TOXAPH	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\011F1101.D		
22-FEB-2010 12:38	1-AB	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\005F0501.D		

Report Date: 23-Feb-2010 07:36

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Start Cal Date: 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
22-FEB-2010 11:49	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\003F0301.D
04-FEB-2010 12:33	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\008F0801.D
04-FEB-2010 10:17	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\003F0301.D
Cal Level: 2 , Cal Amount: 0.01000		
22-FEB-2010 12:13	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\004F0401.D
04-FEB-2010 12:59	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\009F0901.D
04-FEB-2010 10:42	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\004F0401.D
Cal Level: 3 , Cal Amount: 0.02500		
22-FEB-2010 12:38	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\005F0501.D
04-FEB-2010 13:24	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\010F1001.D
04-FEB-2010 11:07	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\005F0501.D
Cal Level: 4 , Cal Amount: 0.05000		
22-FEB-2010 13:03	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\006F0601.D
04-FEB-2010 13:49	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\011F1101.D
04-FEB-2010 11:41	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\006F0601.D
Cal Level: 5 , Cal Amount: 0.10000		
22-FEB-2010 13:27	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\007F0701.D
04-FEB-2010 15:06	16-toxaph	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\014F1401.D

04-FEB-2010 14:15	15-TECHLOR	
\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\012F1201.D		

Cal Level: 6 , Cal Amount: 0.20000		
22-FEB-2010 13:53	1-AB	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\008F0801.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

22-FEB-2010 14:18	1-AB	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\009F0901.D		
22-FEB-2010 14:43	1-ab	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\010F1001.D		
22-FEB-2010 14:43	1-ab	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\010F1001.D		
22-FEB-2010 14:43	1-ab	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\010F1001.D		
22-FEB-2010 14:18	1-AB	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\009F0901.D		
22-FEB-2010 14:43	1-ab	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\010F1001.D		
22-FEB-2010 14:18	1-AB	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\009F0901.D		
22-FEB-2010 20:30	1-AB	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\024F2401.D		
22-FEB-2010 15:08	16-TOXAPH	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\011F1101.D		
22-FEB-2010 12:38	1-AB	
\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\005F0501.D		

Report Date : 23-Feb-2010 07:08

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Last Edit : 23-Feb-2010 07:04 vandorenc

Calibration File Names:
Level 1: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\003F0301.D
Level 2: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\004F0401.D
Level 3: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\005F0501.D
Level 4: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\006F0601.D
Level 5: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\007F0701.D
Level 6: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\008F0801.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
4 alpha-BHC	183536600	182333400	202438320	208606840	211855600	219565325	AVRG		201389348		7.61182
5 gamma-BHC (Lindane)	168197400	166524500	170796000	186649440	188423990	190973755	AVRG		178594181		6.28193
6 beta-BHC	46971600	43617400	43218720	44271840	43809970	46247960	AVRG		44689582		3.45171
7 delta-BHC	161429200	164225500	177081320	188637320	189454420	202412575	AVRG		180540056		8.81645
8 Heptachlor	84861800	81573800	87067360	89026600	88007800	89883740	AVRG		86736850		3.53639
9 Tech Chlordane(1)	2867000	2596860	2573360	2654610	2766960	+++++	AVRG		2691758		4.57904
(2)	2385000	2123800	2040130	1972510	1975454	+++++	AVRG		2099379		8.15137
(3)	5306450	4931120	5015590	5284285	5778530	+++++	AVRG		5263195		6.29773
(4)	7936700	7434000	7612590	8003055	8542350	+++++	AVRG		7905739		5.38208
10 Aldrin	165606600	160604200	162490040	178381000	179701160	179218295	AVRG		171000216		5.27814
11 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

Report Date : 23-Feb-2010 07:08

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Last Edit : 23-Feb-2010 07:04 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Heptachlor epoxide	48223800	46024000	47943560	48971920	48316450	49948560	AVRG		48238048		2.69648	
13 gamma-Chlordane	50703000	48720400	51898160	54499900	54546670	58150195	AVRG		53086388		6.30002	
14 alpha-Chlordane	53800000	51699800	54048720	56382140	55219330	58809845	AVRG		54993306		4.43253	
15 Endosulfan I	51265800	49188500	50816440	53002100	50728310	52615290	AVRG		51269407		2.70854	
16 4,4'-DDE	148034600	140119200	144987320	155833480	157941300	171643440	AVRG		153093223		7.35967	
17 Dieldrin	145744600	142476600	151208000	159626100	159872200	168817080	AVRG		154624097		6.41587	
18 Endrin	53757200	52591000	54833680	58590800	56942490	59560190	AVRG		56045893		4.93658	
19 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
20 4,4'-DDD	110781400	109219700	114341320	123381320	120953500	132624510	AVRG		118550292		7.47201	
21 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
22 Endosulfan II	54122000	52089500	53937160	56391460	53713720	56582260	AVRG		54472683		3.15812	
23 4,4'-DDT	104605400	103826900	107867120	119580740	119717060	137483450	AVRG		115513445		11.15996	
24 Toxaphene(1)	1407600	1531838	1634576	1643804	2032621	+++++	AVRG		1650088		14.19308	
(2)	1321415	1500980	1582183	1637747	2030269	+++++	AVRG		1614519		16.18806	
(3)	1247885	1385424	1449321	1469507	1822263	+++++	AVRG		1474880		14.41836	
(4)	1835350	1977160	2039092	2068611	2489523	+++++	AVRG		2081947		11.76349	
(5)	1590490	1820238	1909677	1996153	2446986	+++++	AVRG		1952709		16.12941	
25 Endrin aldehyde	46784800	44368100	44386640	47458200	45250110	46707160	AVRG		45825835		2.90954	
26 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
27 Methoxychlor	59793600	57539800	55236560	57496260	54140850	59268310	AVRG		57245897		3.85961	
28 Endosulfan sulfate	119996000	114657200	114858640	119050340	114553070	123234340	AVRG		117724932		3.06164	
29 Endrin ketone	65807600	64384200	64661040	67958980	64201650	68875695	AVRG		65981528		3.01442	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Last Edit : 23-Feb-2010 07:04 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 1 Tetrachloro-m-xylene	123492600	116500600	121249640	122025960	122348520	125488360	AVRG		121850947		2.46727
$ 30 Decachlorobiphenyl	71172400	62774700	60869200	60260660	57495040	61994500	AVRG		62427750		7.45279

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Last Edit : 23-Feb-2010 07:04 vandorenc

Average %RSD Results.
Calculated Average %RSD = 6.82207
Maximun Average %RSD = 20.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date : 23-Feb-2010 07:36

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Last Edit : 23-Feb-2010 07:36 vandorenc

Calibration File Names:
Level 1: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\003F0301.D
Level 2: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\004F0401.D
Level 3: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\005F0501.D
Level 4: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\006F0601.D
Level 5: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\007F0701.D
Level 6: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\008F0801.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
55 DDD/Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
4 alpha-BHC	59697600	60223900	66419920	70285200	71339690	76424235	AVRG		67398424		9.77601
5 gamma-BHC (Lindane)	99833400	96431200	101680360	108493760	111342270	118335675	AVRG		106019444		7.72261
6 beta-BHC	50361600	46395000	44720880	44662620	43645590	46736050	AVRG		46086957		5.19342
7 delta-BHC	94973400	93502700	99422120	108537620	110860440	123189580	AVRG		105080977		10.77939
8 Heptachlor	99903200	95120600	96585720	100742260	101961540	109771450	AVRG		100680795		5.11444
9 Tech Chlordane(1)	1367350	1256940	1186110	1202895	1219040	+++++	AVRG		1246467		5.81521
(2)	1642800	1401720	1255890	1230440	1191746	+++++	AVRG		1344519		13.73704
(3)	4142700	3719860	3649030	3907690	4264982	+++++	AVRG		3936852		6.73031
(4)	3603750	3182140	3134560	3273075	3555596	+++++	AVRG		3349824		6.45748
10 Aldrin	30069000	29119700	30832240	33027100	33455470	36008895	AVRG		32085401		7.95693

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Last Edit : 23-Feb-2010 07:36 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
11 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
12 Heptachlor epoxide	89952800	84465000	85162440	88652260	87944380	94318350	AVRG		88415872		4.03613	
13 gamma-Chlordane	83980800	81334400	83284520	86908180	87213080	96321335	AVRG		86507053		6.12781	
14 alpha-Chlordane	85516400	81095800	81955640	85512660	84589270	92671295	AVRG		85223511		4.80252	
15 Endosulfan I	80820800	76049000	76329360	79321760	78629760	84893915	AVRG		79340766		4.12045	
16 4,4'-DDE	74392800	71557400	73026960	78171200	77455970	87137880	AVRG		76957035		7.27097	
17 Dieldrin	34649400	33871400	35781320	38016000	38608290	41581150	AVRG		37084593		7.75567	
18 Endrin	32813800	31757600	33512680	35406820	35170190	39033640	AVRG		34615788		7.43102	
19 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
20 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
21 4,4'-DDD	56315600	53389300	54830680	59129060	58817240	66921390	AVRG		58233878		8.24785	
22 Endosulfan II	34889000	32190600	32798880	34851260	34068190	36959160	AVRG		34292848		4.96215	
23 Toxaphene (1)	1120055	1189016	1224888	1256206	1556256	+++++	AVRG		1269284		13.25405	
(2)	1053885	1132376	1172118	1213222	1503013	+++++	AVRG		1214923		14.11189	
(3)	659160	717862	735260	762022	937949	+++++	AVRG		762451		13.78640	
(4)	486920	529132	546752	563173	695437	+++++	AVRG		564283		13.93449	
(5)	971795	1036610	1051805	1080187	1335524	+++++	AVRG		1095184		12.79348	
24 4,4'-DDT	49420400	49563000	49347000	55480660	54969690	64215335	AVRG		53832681		10.81976	
25 Endrin aldehyde	27537800	26276000	26024600	27480260	26595970	29121850	AVRG		27172747		4.19018	
26 Endosulfan sulfate	31709800	29370900	29511120	31064460	30386280	34330585	AVRG		31062191		5.90554	
27 Methoxychlor	27723000	26435000	25489040	27034740	25903190	29374885	AVRG		26993309		5.23099	
28 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Last Edit : 23-Feb-2010 07:36 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
29 Endrin ketone	38021200	35152700	35302160	37709120	37038000	41669580	AVRG		37482127		6.34191
$ 1 Tetrachloro-m-xylene	53317800	50166300	51635880	52437340	52953890	55763765	AVRG		52712496		3.54433
$ 30 Decachlorobiphenyl	74785600	67625500	64624960	64157580	59743300	64274170	AVRG		65868518		7.65544

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Last Edit : 23-Feb-2010 07:36 vandorenc

Average %RSD Results.	
Calculated Average %RSD =	7.92277
Maximun Average %RSD =	20.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b/002F0201.D
Report Date: 02/23/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 22-FEB-2010 11:24
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\

4,4'-DDT Degradation

RT	Area	Compound
10.133	11283618	4,4'-DDT
8.4460	85937	4,4'-DDE
9.6394	504192	4,4'-DDD

Percent Degradation of 4,4'-DDT: 4.97

Endrin Degradation

RT	Area	Compound
9.3202	6158296	Endrin
10.504	225116	Endrin aldehyde
11.601	466053	Endrin ketone

Percent Degradation of Endrin: 10.09

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 22-FEB-2010 11:24
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Meth Date : 23-Feb-2010 07:04 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.444	4.445	-0.001	1757250	0.00873	0.008726		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.858	4.859	-0.001	1569737	0.00879	0.008789		
6 beta-BHC						CAS #: 319-85-7	
5.002	5.003	-0.001	397445	0.00889	0.008893		
16 4,4'-DDE						CAS #: 72-55-9	
8.446	8.446	0.000	85937	6e-004	0.0005613		
18 Endrin						CAS #: 72-20-8	
9.320	9.320	0.000	2418450	0.04315	0.04315		
20 4,4'-DDD						CAS #: 72-54-8	
9.639	9.639	0.000	504192	0.00425	0.004253		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.132	10.133	-0.001	11283618	0.09768	0.09768		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.503	10.505	-0.002	93646	0.00204	0.002044		

```
   27 Methoxychlor                                CAS #: 72-43-5
11.035  11.036   -0.001        12835197 0.22421   0.2242
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.206  11.207   -0.001           55488  5e-004  0.0004713
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.601	11.602	-0.001	213465	0.00324	0.003235		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\002F0201.D

Page 1

Date : 22-FEB-2010 11:24

Client ID:

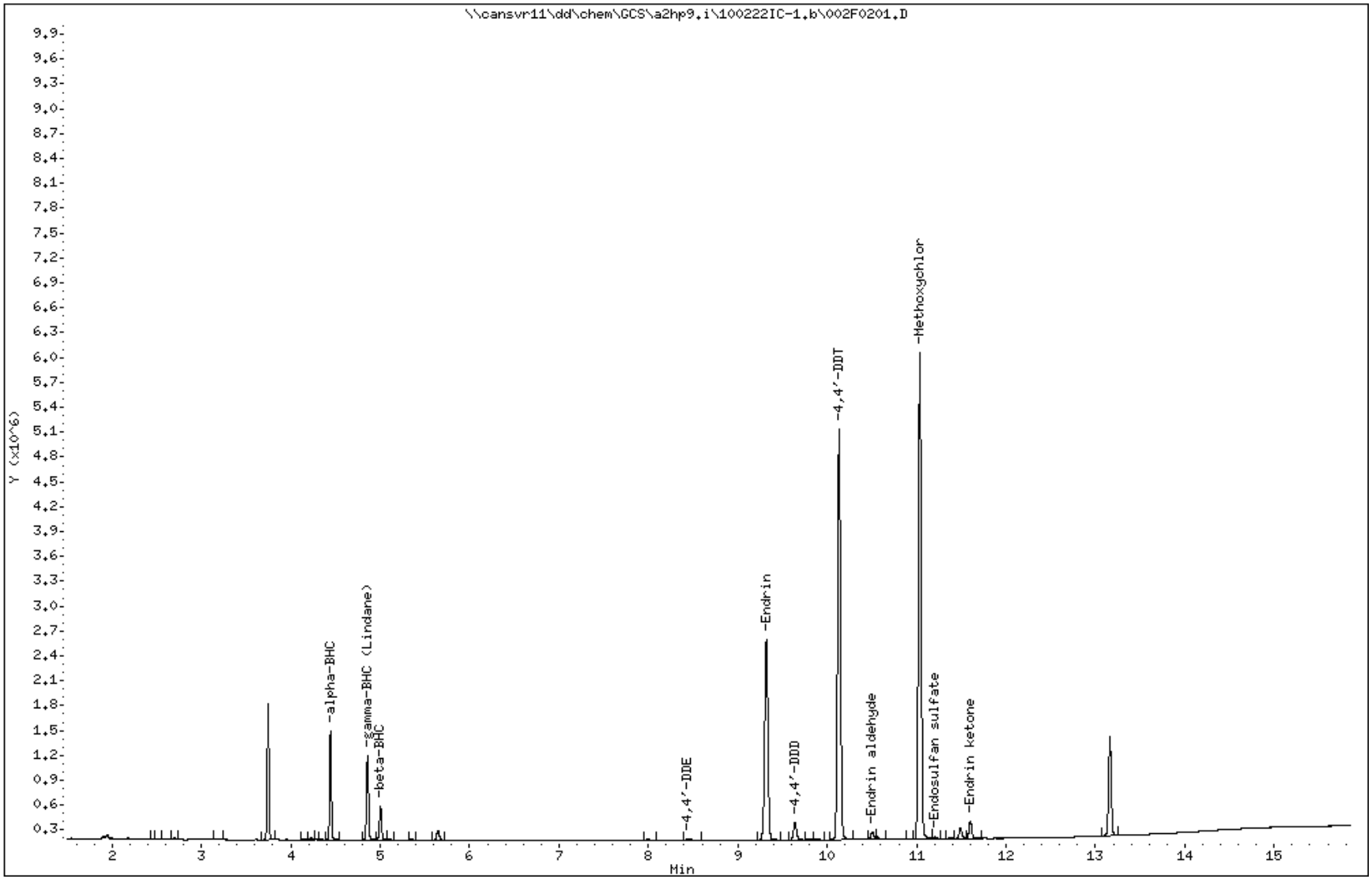
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 11:24
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100222IC-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.444	1757250	0.009	0.009
5) gamma-BHC (Lindane)	4.859	1569737	0.009	0.009
6) beta-BHC	5.003	674644	0.010	0.010
16) 4,4'-DDE	8.446	85937	0.001	0.001
18) Endrin	9.320	6158296	0.045	0.045
20) 4,4'-DDD	9.639	504192	0.005	0.005
22) Endosulfan II	NOT DETECTED Expected RT = 9.746			
23) 4,4'-DDT	10.133	11283618	0.100	0.100
25) Endrin aldehyde	10.504	225116	0.002	0.002
27) Methoxychlor	11.035	12835197	0.246	0.246
28) Endosulfan sulfate	11.206	55488	0.001	0.001
29) Endrin ketone	11.601	466053	0.003	0.003

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b/002F0201.D
Report Date: 02/23/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 22-FEB-2010 11:24
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\

4,4'-DDT Degradation

RT	Area	Compound
11.572	5277603	4,4'-DDT
10.114	35320	4,4'-DDE
11.089	284959	4,4'-DDD

Percent Degradation of 4,4'-DDT: 5.72

Endrin Degradation

RT	Area	Compound
10.769	3216757	Endrin
11.679	138777	Endrin aldehyde
12.839	268688	Endrin ketone

Percent Degradation of Endrin: 11.24

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 22-FEB-2010 11:24
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Meth Date : 23-Feb-2010 07:17 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
5.233	5.236	-0.003	575778	0.00854	0.008543		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.876	5.879	-0.003	926557	0.00874	0.008740		
6 beta-BHC					CAS #: 319-85-7		
6.079	6.082	-0.003	423581	0.00919	0.009191		
16 4,4'-DDE					CAS #: 72-55-9		
10.114	10.113	0.001	35320	5e-004	0.0004590		
18 Endrin					CAS #: 72-20-8		
10.768	10.770	-0.002	1532285	0.04427	0.04426		
21 4,4'-DDD					CAS #: 72-54-8		
11.088	11.090	-0.002	284959	0.00489	0.004893		
22 Endosulfan II					CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		
11.571	11.573	-0.002	5277603	0.09804	0.09804		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.678	11.680	-0.002	58121	0.00214	0.002139		

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   27 Methoxychlor                                CAS #: 72-43-5
12.624  12.626   -0.002         6337205 0.23477   0.2348
-------------------------------------------------------------------------------
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

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29 Endrin ketone CAS #: 53494-70-5

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
12.839	12.841	-0.002	129532	0.00346	0.003456		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\002F0201.D

Page 1

Date : 22-FEB-2010 11:24

Client ID:

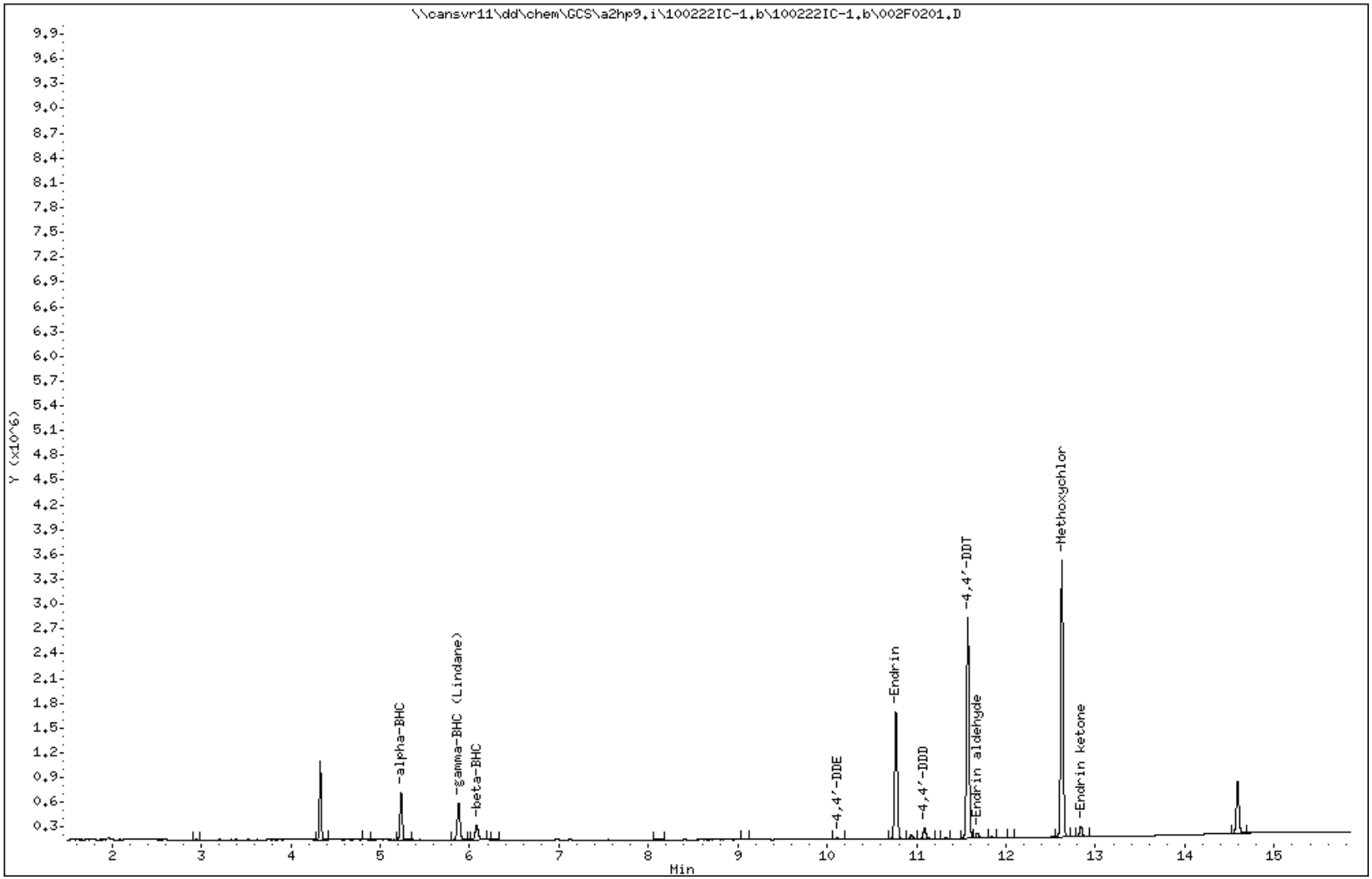
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 11:24
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100222IC-1.b/100222IC-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.234	999495	0.009	0.009
5) gamma-BHC (Lindane)	5.877	926557	0.009	0.009
6) beta-BHC	6.079	423581	0.009	0.009
16) 4,4'-DDE	10.114	35320	0.000	0.000
18) Endrin	10.769	3216757	0.044	0.044
21) 4,4'-DDD	11.089	284959	0.005	0.005
22) Endosulfan II	NOT DETECTED	Expected RT = 11.131		
24) 4,4'-DDT	11.572	5277603	0.094	0.094
25) Endrin aldehyde	11.679	138777	0.002	0.002
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.104		
27) Methoxychlor	12.624	6337205	0.232	0.232
29) Endrin ketone	12.839	268688	0.003	0.003

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\003F0301.D
Lab Smp Id: AB1 G250
Inj Date : 22-FEB-2010 11:49
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB1 G250,,1,1
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Meth Date : 22-Feb-2010 12:02 Quant Type: ESTD
Cal Date : 22-FEB-2010 11:49 Cal File: 003F0301.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.747	3.747	0.000	617463	0.00500	0.005307		
4 alpha-BHC						CAS #: 319-84-6	
4.445	4.445	0.000	917683	0.00500	0.004775		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.858	4.858	0.000	840987	0.00500	0.004887		
6 beta-BHC						CAS #: 319-85-7	
5.003	5.003	0.000	234858	0.00500	0.005925		
7 delta-BHC						CAS #: 319-86-8	
5.245	5.245	0.000	807146	0.00500	0.004928		
		Sum of Peak Amounts =			0.00493		
8 Heptachlor						CAS #: 76-44-8	
5.562	5.562	0.000	424309	0.00500	0.005152		
10 Aldrin						CAS #: 309-00-2	
6.076	6.076	0.000	828033	0.00500	0.004975		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.485	7.485	0.000	241119	0.00500	0.005101		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.794	7.794	0.000	253515	0.00500	0.005022		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.112	8.112	0.000	269000	0.00500	0.005155		

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--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
8.372    8.372    0.000          256329 0.00500  0.005230
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.445	8.445	0.000	740173	0.00500	0.005233		
17 Dieldrin					CAS #: 60-57-1		
8.892	8.892	0.000	728723	0.00500	0.004903		
18 Endrin					CAS #: 72-20-8		
9.319	9.319	0.000	268786	0.00500	0.004947		
20 4,4'-DDD					CAS #: 72-54-8		
9.640	9.640	0.000	553907	0.00500	0.005538		
22 Endosulfan II					CAS #: 33213-65-9		
9.745	9.745	0.000	270610	0.00500	0.005207		
23 4,4'-DDT					CAS #: 50-29-3		
10.132	10.132	0.000	523027	0.00500	0.004609		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.506	10.506	0.000	233924	0.00500	0.005427		
27 Methoxychlor					CAS #: 72-43-5		
11.037	11.037	0.000	298968	0.00500	0.005590		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.208	11.208	0.000	599980	0.00500	0.005364		
29 Endrin ketone					CAS #: 53494-70-5		
11.602	11.602	0.000	329038	0.00500	0.005236		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.162	13.162	0.000	355862	0.00500	0.006312		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\003F0301.D

Date : 22-FEB-2010 11:49

Client ID:

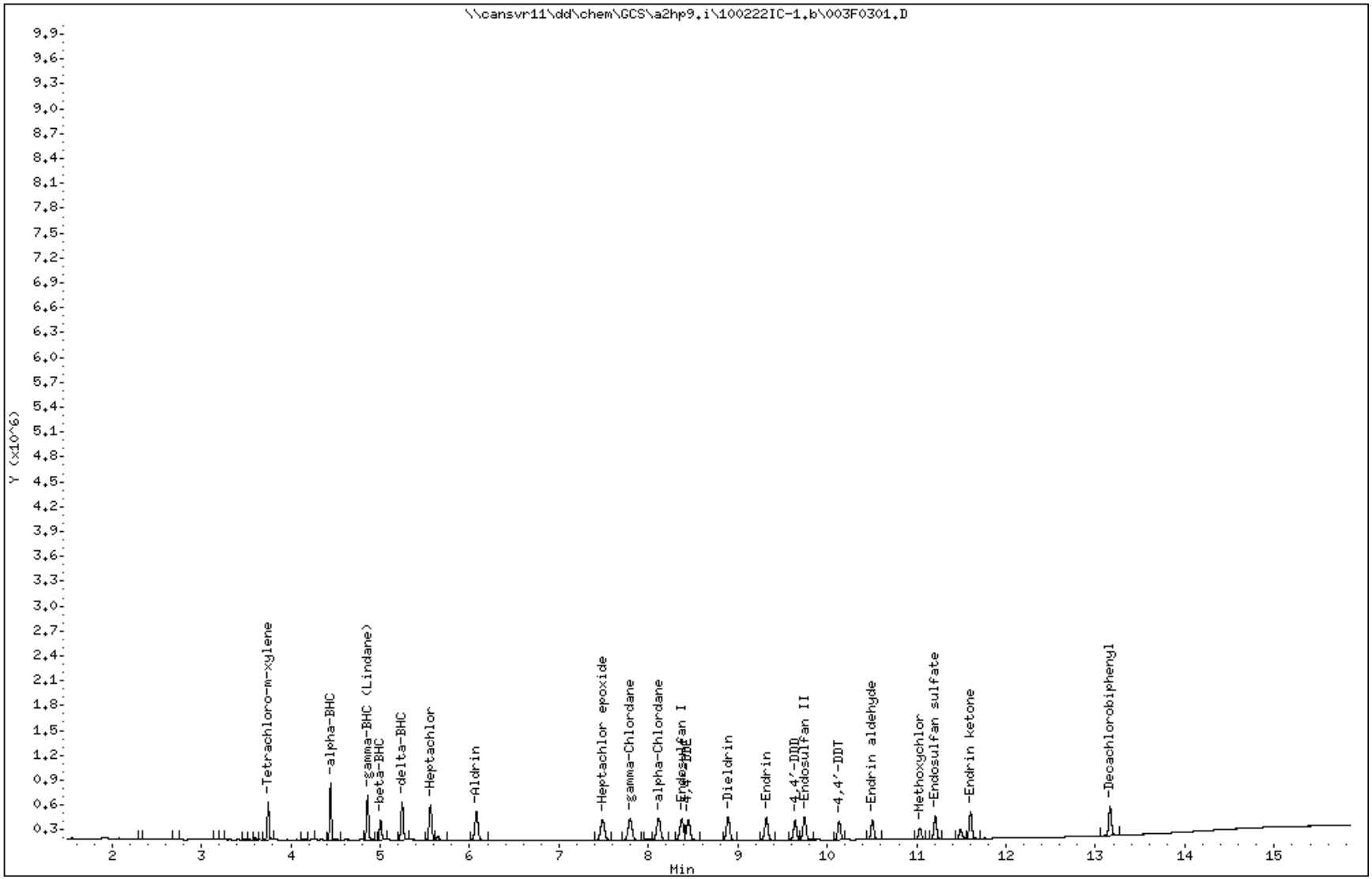
Instrument: a2hp9.i

Sample Info: AB1 G250,,1,1

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 11:49
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100222IC-1.b/003F0301.D
Lab Sample ID: AB1 G250
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.748	617463	0.005	0.005
4) alpha-BHC	4.445	917683	0.005	0.005
5) gamma-BHC (Lindane)	4.859	840987	0.005	0.005
6) beta-BHC	5.004	392932	0.006	0.006
7) delta-BHC	5.245	807146	0.005	0.005
8) Heptachlor	5.562	868344	0.005	0.005
10) Aldrin	6.076	828033	0.005	0.005
12) Heptachlor epoxide	7.485	777269	0.005	0.005
13) gamma-Chlordane	7.795	790507	0.005	0.005
14) alpha-Chlordane	8.113	802520	0.005	0.005
15) Endosulfan I	8.373	727711	0.005	0.005
16) 4,4'-DDE	8.445	740173	0.005	0.005
17) Dieldrin	8.892	728723	0.005	0.005
18) Endrin	9.320	676099	0.005	0.005
20) 4,4'-DDD	9.640	553907	0.006	0.006
22) Endosulfan II	9.745	669508	0.005	0.005
23) 4,4'-DDT	10.133	523027	0.005	0.005
25) Endrin aldehyde	10.506	542237	0.005	0.005
27) Methoxychlor	11.037	298968	0.006	0.006
28) Endosulfan sulfate	11.209	599980	0.005	0.005
29) Endrin ketone	11.603	711156	0.005	0.005
30) Decachlorobiphenyl	13.163	764548	0.006	0.006

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\004F0401.D
Lab Smp Id: AB2 G251
Inj Date : 22-FEB-2010 12:13
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB2 G251,,1,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Meth Date : 22-Feb-2010 12:27 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:13 Cal File: 004F0401.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.746	3.746	0.000	1165006	0.01000	0.009919		
4 alpha-BHC					CAS #: 319-84-6		
4.443	4.443	0.000	1823334	0.01000	0.009389		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.857	4.857	0.000	1665245	0.01000	0.009572		
6 beta-BHC					CAS #: 319-85-7		
5.002	5.002	0.000	436174	0.01000	0.01072		
7 delta-BHC					CAS #: 319-86-8		
5.243	5.243	0.000	1642255	0.01000	0.009807		
		Sum of Peak Amounts =			0.00981		
8 Heptachlor					CAS #: 76-44-8		
5.560	5.560	0.000	815738	0.01000	0.009794		
10 Aldrin					CAS #: 309-00-2		
6.074	6.074	0.000	1606042	0.01000	0.009577		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.485	7.485	0.000	460240	0.01000	0.009686		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.793	7.793	0.000	487204	0.01000	0.009571		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.111	8.111	0.000	516998	0.01000	0.009805		

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--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
8.370    8.370    0.000          491885 0.01000  0.009940
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.444	8.444	0.000	1401192	0.01000	0.009824		
17 Dieldrin					CAS #: 60-57-1		
8.890	8.890	0.000	1424766	0.01000	0.009507		
18 Endrin					CAS #: 72-20-8		
9.317	9.317	0.000	525910	0.01000	0.009626		
20 4,4'-DDD					CAS #: 72-54-8		
9.637	9.637	0.000	1092197	0.01000	0.01057		
22 Endosulfan II					CAS #: 33213-65-9		
9.743	9.743	0.000	520895	0.01000	0.009907		
23 4,4'-DDT					CAS #: 50-29-3		
10.131	10.131	0.000	1038269	0.01000	0.009261		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.502	10.502	0.000	443681	0.01000	0.01017		
27 Methoxychlor					CAS #: 72-43-5		
11.035	11.035	0.000	575398	0.01000	0.01061		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.207	11.207	0.000	1146572	0.01000	0.01013		
29 Endrin ketone					CAS #: 53494-70-5		
11.601	11.601	0.000	643842	0.01000	0.01013		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.161	13.161	0.000	627747	0.01000	0.01093		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\004F0401.D

Page 1

Date : 22-FEB-2010 12:13

Client ID:

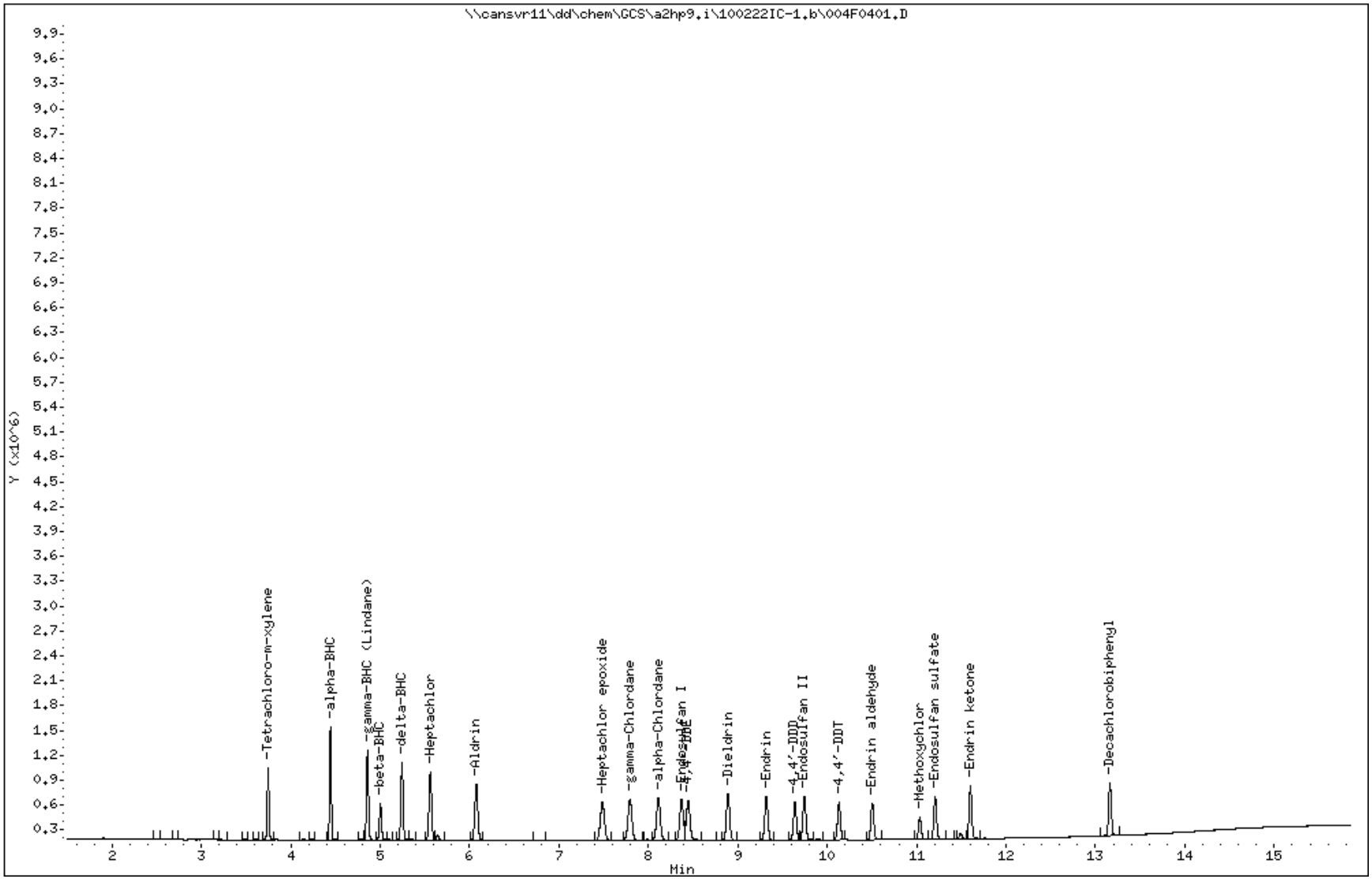
Instrument: a2hp9.i

Sample Info: AB2 G251,,1,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 12:13
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100222IC-1.b/004F0401.D
Lab Sample ID: AB2 G251
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.746	1165006	0.010	0.010
4) alpha-BHC	4.444	1823334	0.009	0.009
5) gamma-BHC (Lindane)	4.858	1665245	0.010	0.010
6) beta-BHC	5.003	737636	0.011	0.011
7) delta-BHC	5.244	1642255	0.010	0.010
8) Heptachlor	5.560	1672797	0.010	0.010
10) Aldrin	6.075	1606042	0.010	0.010
12) Heptachlor epoxide	7.485	1481517	0.010	0.010
13) gamma-Chlordane	7.794	1515256	0.010	0.010
14) alpha-Chlordane	8.111	1521756	0.010	0.010
15) Endosulfan I	8.370	1381200	0.010	0.010
16) 4,4'-DDE	8.445	1401192	0.010	0.010
17) Dieldrin	8.890	1424766	0.010	0.010
18) Endrin	9.318	1308461	0.010	0.010
20) 4,4'-DDD	9.638	1092197	0.011	0.011
22) Endosulfan II	9.744	1287652	0.010	0.010
23) 4,4'-DDT	10.131	1038269	0.009	0.009
25) Endrin aldehyde	10.503	1025880	0.010	0.010
27) Methoxychlor	11.035	575398	0.011	0.011
28) Endosulfan sulfate	11.208	1146572	0.010	0.010
29) Endrin ketone	11.601	1350393	0.010	0.010
30) Decachlorobiphenyl	13.161	1325759	0.011	0.011

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\005F0501.D
Lab Smp Id: AB3 G252
Inj Date : 22-FEB-2010 12:38
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,1,3
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Meth Date : 22-Feb-2010 12:52 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:38 Cal File: 005F0501.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.747	3.747	0.000	3031241	0.02500	0.02551		
4 alpha-BHC					CAS #: 319-84-6		
4.444	4.444	0.000	5060958	0.02500	0.02573		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.858	4.858	0.000	4269900	0.02500	0.02445		
6 beta-BHC					CAS #: 319-85-7		
5.003	5.003	0.000	1080468	0.02500	0.02584		
7 delta-BHC					CAS #: 319-86-8		
5.245	5.245	0.000	4427033	0.02500	0.02580		
Sum of Peak Amounts =					0.02580		
8 Heptachlor					CAS #: 76-44-8		
5.562	5.562	0.000	2176684	0.02500	0.02579		
10 Aldrin					CAS #: 309-00-2		
6.077	6.077	0.000	4062251	0.02500	0.02418		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.487	7.487	0.000	1198589	0.02500	0.02504		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.796	7.796	0.000	1297454	0.02500	0.02516		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.112	8.112	0.000	1351218	0.02500	0.02533		

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   15 Endosulfan I                                CAS #: 959-98-8
8.372    8.372    0.000         1270411 0.02500  0.02539
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.447	8.447	0.000	3624683	0.02500	0.02504		
17 Dieldrin					CAS #: 60-57-1		
8.892	8.892	0.000	3780200	0.02500	0.02501		
18 Endrin					CAS #: 72-20-8		
9.319	9.319	0.000	1370842	0.02500	0.02492		
20 4,4'-DDD					CAS #: 72-54-8		
9.639	9.639	0.000	2858533	0.02500	0.02667		
22 Endosulfan II					CAS #: 33213-65-9		
9.746	9.746	0.000	1348429	0.02500	0.02533		
23 4,4'-DDT					CAS #: 50-29-3		
10.133	10.133	0.000	2696678	0.02500	0.02397		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.504	10.504	0.000	1109666	0.02500	0.02512		
27 Methoxychlor					CAS #: 72-43-5		
11.036	11.036	0.000	1380914	0.02500	0.02520		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.209	11.209	0.000	2871466	0.02500	0.02512		
29 Endrin ketone					CAS #: 53494-70-5		
11.602	11.602	0.000	1616526	0.02500	0.02519		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.162	13.162	0.000	1521730	0.02500	0.02592		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\005F0501.D

Date : 22-FEB-2010 12:38

Client ID:

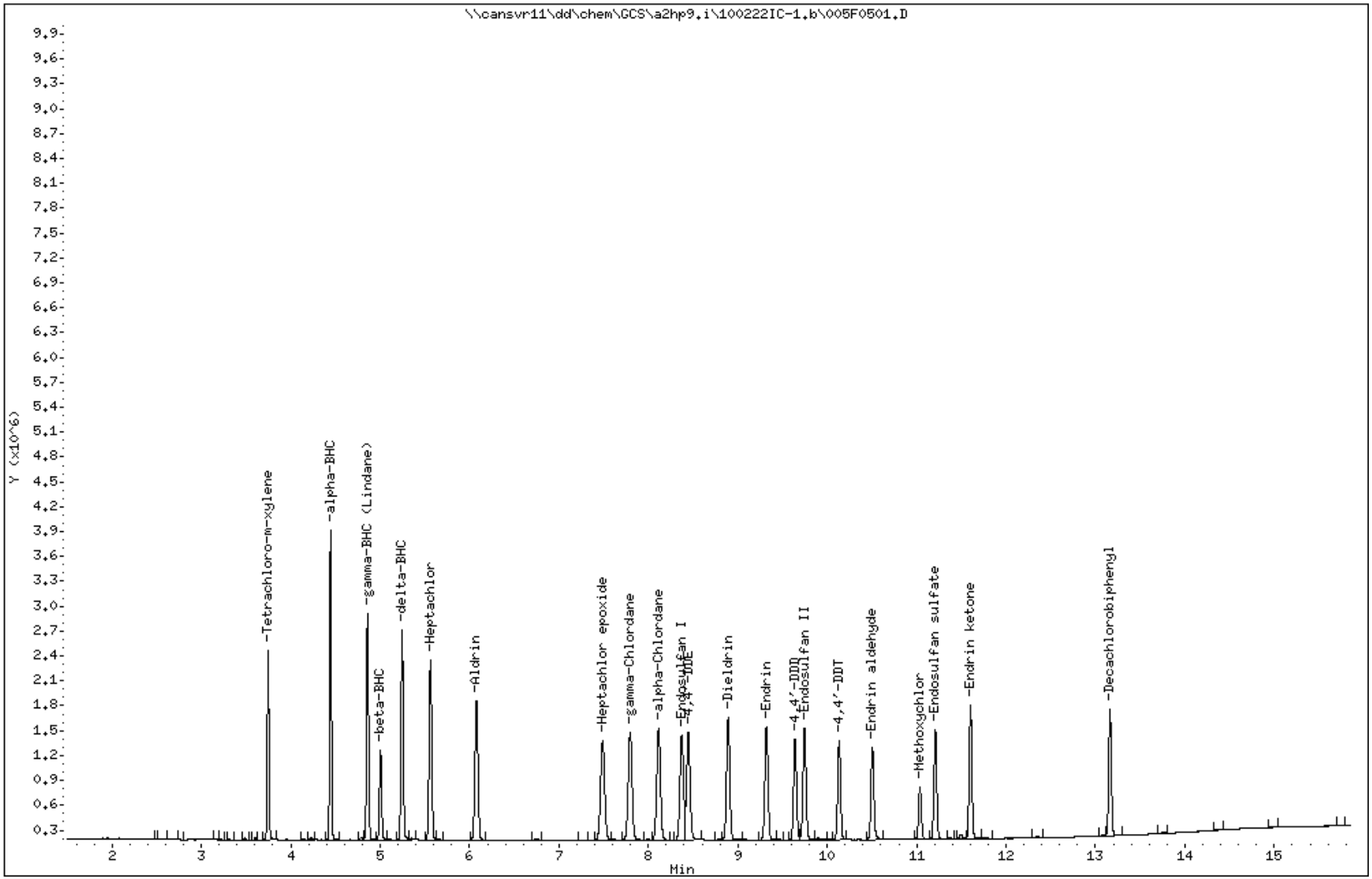
Instrument: a2hp9.i

Sample Info: AB3 G252,,1,3

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 12:38
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100222IC-1.b/005F0501.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.747	3031241	0.026	0.026
4) alpha-BHC	4.445	5060958	0.026	0.026
5) gamma-BHC (Lindane)	4.859	4269900	0.024	0.024
6) beta-BHC	5.004	1821014	0.026	0.026
7) delta-BHC	5.245	4427033	0.026	0.026
8) Heptachlor	5.562	4402592	0.026	0.026
10) Aldrin	6.077	4062251	0.024	0.024
12) Heptachlor epoxide	7.487	3815330	0.025	0.025
13) gamma-Chlordane	7.796	3955419	0.025	0.025
14) alpha-Chlordane	8.113	3917257	0.025	0.025
15) Endosulfan I	8.373	3547717	0.025	0.025
16) 4,4'-DDE	8.447	3624683	0.025	0.025
17) Dieldrin	8.893	3780200	0.025	0.025
18) Endrin	9.320	3422416	0.025	0.025
20) 4,4'-DDD	9.640	2858533	0.027	0.027
22) Endosulfan II	9.746	3280557	0.025	0.025
23) 4,4'-DDT	10.134	2696678	0.024	0.024
25) Endrin aldehyde	10.505	2550831	0.025	0.025
27) Methoxychlor	11.036	1380914	0.025	0.025
28) Endosulfan sulfate	11.210	2871466	0.025	0.025
29) Endrin ketone	11.602	3446537	0.025	0.025
30) Decachlorobiphenyl	13.162	3131962	0.026	0.026

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\006F0601.D
Lab Smp Id: AB4 G253
Inj Date : 22-FEB-2010 13:03
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB4 G253,,1,4
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Meth Date : 22-Feb-2010 13:17 Quant Type: ESTD
Cal Date : 22-FEB-2010 13:03 Cal File: 006F0601.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.746	3.746	0.000	6101298	0.05000	0.05115		
4 alpha-BHC						CAS #: 319-84-6	
4.445	4.445	0.000	10430342	0.05000	0.05282		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.859	4.859	0.000	9332472	0.05000	0.05323		
6 beta-BHC						CAS #: 319-85-7	
5.003	5.003	0.000	2213592	0.05000	0.05188		
7 delta-BHC						CAS #: 319-86-8	
5.244	5.244	0.000	9431866	0.05000	0.05413		
		Sum of Peak Amounts =			0.05413		
8 Heptachlor						CAS #: 76-44-8	
5.562	5.562	0.000	4451330	0.05000	0.05251		
10 Aldrin						CAS #: 309-00-2	
6.075	6.075	0.000	8919050	0.05000	0.05290		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.485	7.485	0.000	2448596	0.05000	0.05123		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.795	7.795	0.000	2724995	0.05000	0.05252		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.112	8.112	0.000	2819107	0.05000	0.05233		

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--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
8.370    8.370    0.000         2650105 0.05000  0.05268
--------------------------------------------------------------------------------
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
	16 4,4'-DDE				CAS #: 72-55-9		
8.445	8.445	0.000	7791674	0.05000	0.05305		
	17 Dieldrin				CAS #: 60-57-1		
8.890	8.890	0.000	7981305	0.05000	0.05260		
	18 Endrin				CAS #: 72-20-8		
9.320	9.320	0.000	2929540	0.05000	0.05302		
	20 4,4'-DDD				CAS #: 72-54-8		
9.639	9.639	0.000	6169066	0.05000	0.05554		
	22 Endosulfan II				CAS #: 33213-65-9		
9.745	9.745	0.000	2819573	0.05000	0.05255		
	23 4,4'-DDT				CAS #: 50-29-3		
10.132	10.132	0.000	5979037	0.05000	0.05294		
	25 Endrin aldehyde				CAS #: 7421-93-4		
10.505	10.505	0.000	2372910	0.05000	0.05303		
	27 Methoxychlor				CAS #: 72-43-5		
11.036	11.036	0.000	2874813	0.05000	0.05190		
	28 Endosulfan sulfate				CAS #: 1031-07-8		
11.208	11.208	0.000	5952517	0.05000	0.05174		
	29 Endrin ketone				CAS #: 53494-70-5		
11.602	11.602	0.000	3397949	0.05000	0.05254		
$	30 Decachlorobiphenyl				CAS #: 2051-24-3		
13.162	13.162	0.000	3013033	0.05000	0.05067		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\006F0601.D

Page 1

Date : 22-FEB-2010 13:03

Client ID:

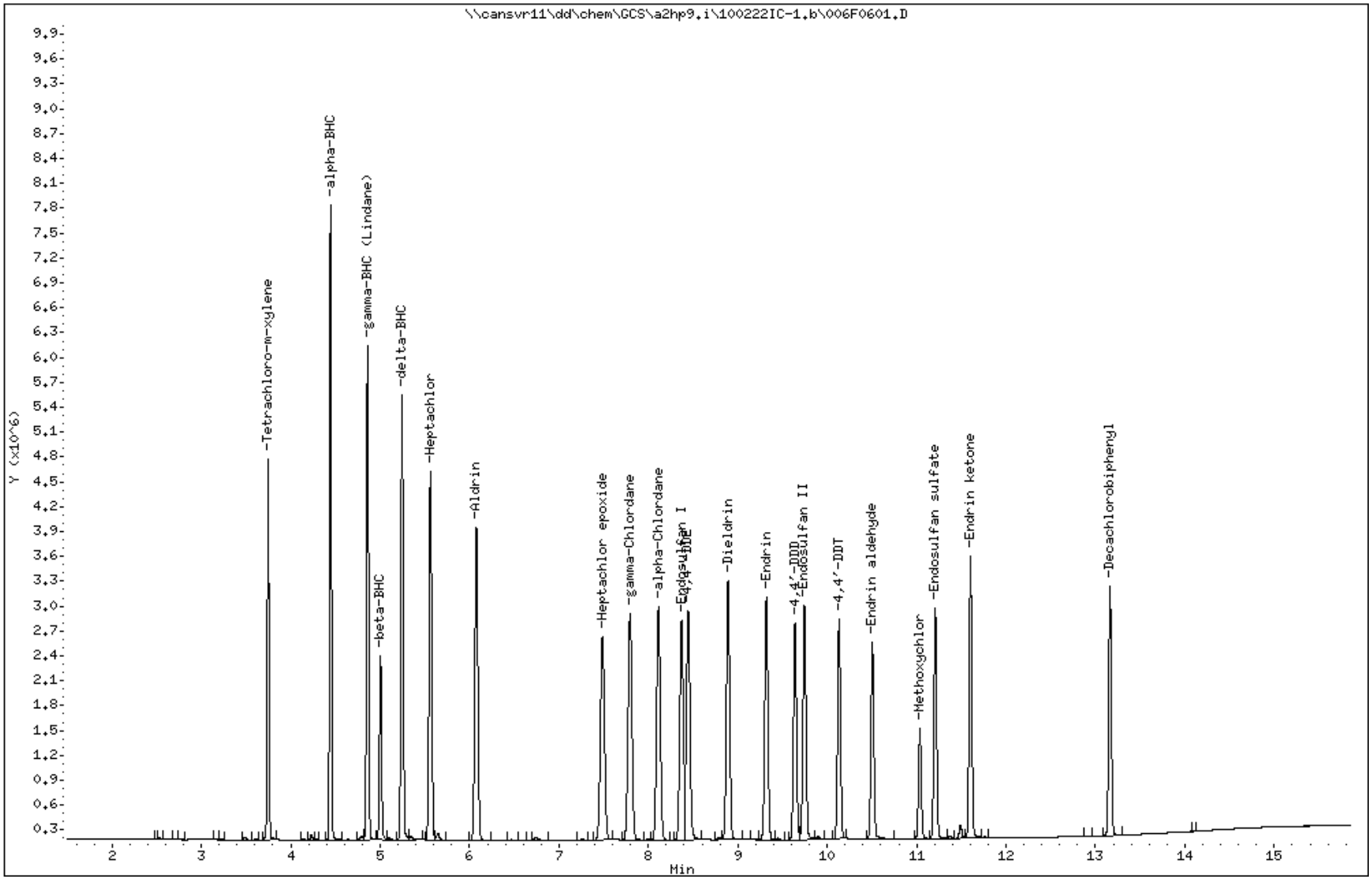
Instrument: a2hp9.i

Sample Info: AB4 G253,,1,4

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 13:03
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100222IC-1.b/006F0601.D
Lab Sample ID: AB4 G253
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.747	6101298	0.051	0.051
4) alpha-BHC	4.445	10430342	0.053	0.053
5) gamma-BHC (Lindane)	4.859	9332472	0.053	0.053
6) beta-BHC	5.003	3671146	0.052	0.052
7) delta-BHC	5.244	9431866	0.054	0.054
8) Heptachlor	5.563	9059004	0.053	0.053
10) Aldrin	6.076	8919050	0.053	0.053
12) Heptachlor epoxide	7.486	7821495	0.051	0.051
13) gamma-Chlordane	7.795	8238481	0.053	0.053
14) alpha-Chlordane	8.113	8100748	0.052	0.052
15) Endosulfan I	8.371	7314062	0.053	0.053
16) 4,4'-DDE	8.445	7791674	0.053	0.053
17) Dieldrin	8.891	7981305	0.053	0.053
18) Endrin	9.320	7202522	0.053	0.053
20) 4,4'-DDD	9.639	6169066	0.056	0.056
22) Endosulfan II	9.745	6787570	0.053	0.053
23) 4,4'-DDT	10.133	5979037	0.053	0.053
25) Endrin aldehyde	10.505	5417600	0.053	0.053
27) Methoxychlor	11.037	2874813	0.052	0.052
28) Endosulfan sulfate	11.208	5952517	0.052	0.052
29) Endrin ketone	11.603	7161321	0.053	0.053
30) Decachlorobiphenyl	13.163	6171961	0.051	0.051

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\007F0701.D
Lab Smp Id: AB5 G254
Inj Date : 22-FEB-2010 13:27
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB5 G254,,1,5
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Meth Date : 22-Feb-2010 13:41 Quant Type: ESTD
Cal Date : 22-FEB-2010 13:27 Cal File: 007F0701.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.746	3.746	0.000	12234852	0.10000	0.1012		
4 alpha-BHC						CAS #: 319-84-6	
4.444	4.444	0.000	21185560	0.10000	0.1059		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.857	4.857	0.000	18842399	0.10000	0.1062		
6 beta-BHC						CAS #: 319-85-7	
5.002	5.002	0.000	4380997	0.10000	0.1002		
7 delta-BHC						CAS #: 319-86-8	
5.244	5.244	0.000	18945442	0.10000	0.1068		
		Sum of Peak Amounts =		0.10680			
8 Heptachlor						CAS #: 76-44-8	
5.561	5.561	0.000	8800780	0.10000	0.1025		
10 Aldrin						CAS #: 309-00-2	
6.076	6.076	0.000	17970116	0.10000	0.1054		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.486	7.486	0.000	4831645	0.10000	0.1006		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.794	7.794	0.000	5454667	0.10000	0.1039		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.111	8.111	0.000	5521933	0.10000	0.1015		

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   15 Endosulfan I                                CAS #: 959-98-8
8.371    8.371    0.000         5072831 0.10000  0.09984
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.444	8.444	0.000	15794130	0.10000	0.1054		
17 Dieldrin					CAS #: 60-57-1		
8.891	8.891	0.000	15987220	0.10000	0.1044		
18 Endrin					CAS #: 72-20-8		
9.320	9.320	0.000	5694249	0.10000	0.1024		
20 4,4'-DDD					CAS #: 72-54-8		
9.639	9.639	0.000	12095350	0.10000	0.1056		
22 Endosulfan II					CAS #: 33213-65-9		
9.744	9.744	0.000	5371372	0.10000	0.09936		
23 4,4'-DDT					CAS #: 50-29-3		
10.131	10.131	0.000	11971706	0.10000	0.1054		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.503	10.503	0.000	4525011	0.10000	0.09990		
27 Methoxychlor					CAS #: 72-43-5		
11.035	11.035	0.000	5414085	0.10000	0.09666		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.207	11.207	0.000	11455307	0.10000	0.09872		
29 Endrin ketone					CAS #: 53494-70-5		
11.601	11.601	0.000	6420165	0.10000	0.09843		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.161	13.161	0.000	5749504	0.10000	0.09468		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\007F0701.D

Date : 22-FEB-2010 13:27

Client ID:

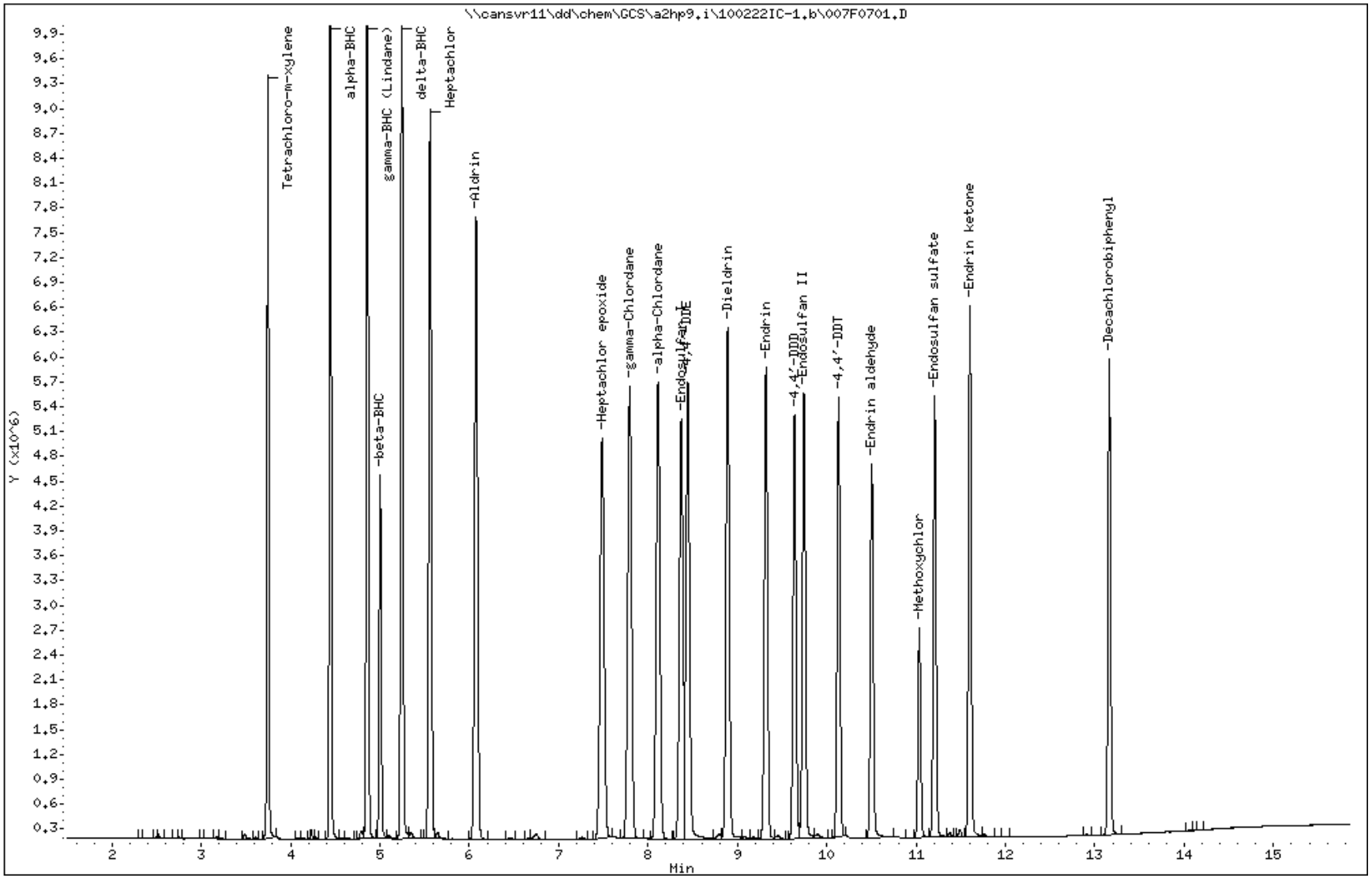
Instrument: a2hp9.i

Sample Info: AB5 G254,,1,5

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 13:27
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100222IC-1.b/007F0701.D
Lab Sample ID: AB5 G254
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.746	12234852	0.101	0.101
4) alpha-BHC	4.444	21185560	0.106	0.106
5) gamma-BHC (Lindane)	4.858	18842399	0.106	0.106
6) beta-BHC	5.003	7242880	0.100	0.100
7) delta-BHC	5.244	18945442	0.107	0.107
8) Heptachlor	5.562	18126691	0.102	0.102
10) Aldrin	6.076	17970116	0.105	0.105
12) Heptachlor epoxide	7.486	15529516	0.101	0.101
13) gamma-Chlordane	7.794	16543413	0.104	0.104
14) alpha-Chlordane	8.112	16141175	0.101	0.101
15) Endosulfan I	8.372	14318762	0.100	0.100
16) 4,4'-DDE	8.444	15794130	0.105	0.105
17) Dieldrin	8.891	15987220	0.104	0.104
18) Endrin	9.320	14123454	0.102	0.102
20) 4,4'-DDD	9.639	12095350	0.106	0.106
22) Endosulfan II	9.744	13149436	0.099	0.099
23) 4,4'-DDT	10.132	11971706	0.105	0.105
25) Endrin aldehyde	10.504	10430614	0.100	0.100
27) Methoxychlor	11.035	5414085	0.097	0.097
28) Endosulfan sulfate	11.208	11455307	0.099	0.099
29) Endrin ketone	11.602	13766366	0.098	0.098
30) Decachlorobiphenyl	13.162	11527209	0.095	0.095

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\008F0801.D
Lab Smp Id: AB6 G255
Inj Date : 22-FEB-2010 13:53
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB6 G255,,1,6
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Meth Date : 22-Feb-2010 14:06 Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.748	3.748	0.000	25097672	0.20000	0.2060		
4 alpha-BHC						CAS #: 319-84-6	
4.445	4.445	0.000	43913065	0.20000	0.2180		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.859	4.859	0.000	38194751	0.20000	0.2139		
6 beta-BHC						CAS #: 319-85-7	
5.004	5.004	0.000	9249592	0.20000	0.2070		
7 delta-BHC						CAS #: 319-86-8	
5.245	5.245	0.000	40482515	0.20000	0.2242		
		Sum of Peak Amounts =			0.22420		
8 Heptachlor						CAS #: 76-44-8	
5.563	5.563	0.000	17976748	0.20000	0.2072		
10 Aldrin						CAS #: 309-00-2	
6.078	6.078	0.000	35843659	0.20000	0.2096		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.488	7.488	0.000	9989712	0.20000	0.2071		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.797	7.797	0.000	11630039	0.20000	0.2191		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.114	8.114	0.000	11761969	0.20000	0.2139		

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   15 Endosulfan I                                CAS #: 959-98-8
8.372    8.372    0.000        10523058 0.20000   0.2052
--------------------------------------------------------------------------------
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.448	8.448	0.000	34328688	0.20000	0.2242		
17 Dieldrin					CAS #: 60-57-1		
8.893	8.893	0.000	33763416	0.20000	0.2184		
18 Endrin					CAS #: 72-20-8		
9.320	9.320	0.000	11912038	0.20000	0.2125		
20 4,4'-DDD					CAS #: 72-54-8		
9.639	9.639	0.000	26524902	0.20000	0.2237		
22 Endosulfan II					CAS #: 33213-65-9		
9.745	9.745	0.000	11316452	0.20000	0.2077		
23 4,4'-DDT					CAS #: 50-29-3		
10.133	10.133	0.000	27496690	0.20000	0.2380		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.505	10.505	0.000	9341432	0.20000	0.2038		
27 Methoxychlor					CAS #: 72-43-5		
11.036	11.036	0.000	11853662	0.20000	0.2071		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.209	11.209	0.000	24646868	0.20000	0.2094		
29 Endrin ketone					CAS #: 53494-70-5		
11.603	11.603	0.000	13775139	0.20000	0.2088		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.163	13.163	0.000	12398900	0.20000	0.1986		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\008F0801.D

Date : 22-FEB-2010 13:53

Client ID:

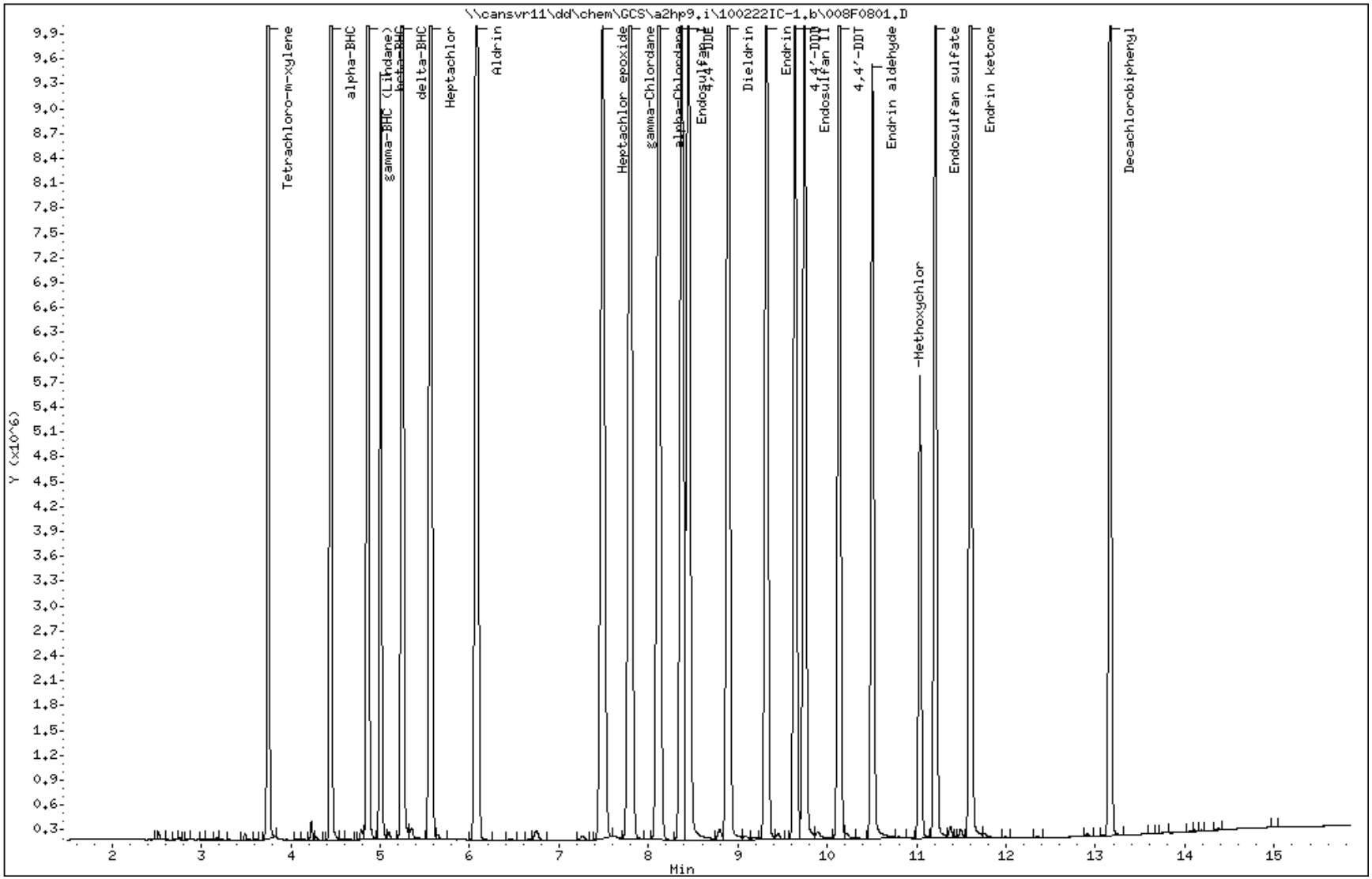
Instrument: a2hp9.i

Sample Info: AB6 G255,,1,6

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 13:53
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100222IC-1.b/008F0801.D
Lab Sample ID: AB6 G255
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.748	25097672	0.206	0.206
4) alpha-BHC	4.446	43913065	0.218	0.218
5) gamma-BHC (Lindane)	4.860	38194751	0.214	0.214
6) beta-BHC	5.004	15266697	0.207	0.207
7) delta-BHC	5.246	40482515	0.224	0.224
8) Heptachlor	5.563	37427559	0.207	0.207
10) Aldrin	6.078	35843659	0.210	0.210
12) Heptachlor epoxide	7.488	32231537	0.207	0.207
13) gamma-Chlordane	7.797	35311375	0.219	0.219
14) alpha-Chlordane	8.115	34353479	0.214	0.214
15) Endosulfan I	8.372	29880216	0.205	0.205
16) 4,4'-DDE	8.448	34328688	0.224	0.224
17) Dieldrin	8.893	33763416	0.218	0.218
18) Endrin	9.321	29958333	0.213	0.213
20) 4,4'-DDD	9.640	26524902	0.224	0.224
22) Endosulfan II	9.746	27894233	0.208	0.208
23) 4,4'-DDT	10.133	27496690	0.238	0.238
25) Endrin aldehyde	10.506	21674531	0.204	0.204
27) Methoxychlor	11.037	11853662	0.207	0.207
28) Endosulfan sulfate	11.209	24646868	0.209	0.209
29) Endrin ketone	11.603	29407772	0.209	0.209
30) Decachlorobiphenyl	13.163	24689512	0.199	0.199

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\009F0901.D Page 1
Report Date: 23-Feb-2010 07:04

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 22-FEB-2010 14:18
Lab File ID: 009F0901.D Init. Cal. Date(s): 04-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 10:17 13:53
Lab Sample ID: ICV Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	121850947	++++	++++	0.000	++++	15.00000	Averaged	<-
4 alpha-BHC	201389348	222826680	222826680	0.010	-10.64472	15.00000	Averaged	
5 gamma-BHC (Lindane)	178594181	190161560	190161560	0.010	-6.47691	15.00000	Averaged	
6 beta-BHC	44689582	48719000	48719000	0.010	-9.01646	15.00000	Averaged	
7 delta-BHC	180540056	198843120	198843120	0.010	-10.13795	15.00000	Averaged	
8 Heptachlor	86736850	96003480	96003480	0.010	-10.68361	15.00000	Averaged	
10 Aldrin	171000216	178152160	178152160	0.010	-4.18242	15.00000	Averaged	
12 Heptachlor epoxide	48238048	53086080	53086080	0.010	-10.05022	15.00000	Averaged	
13 gamma-Chlordane	53086388	58192480	58192480	0.010	-9.61846	15.00000	Averaged	
14 alpha-Chlordane	54993306	60072080	60072080	0.010	-9.23526	15.00000	Averaged	
15 Endosulfan I	51269407	56800440	56800440	0.010	-10.78818	15.00000	Averaged	
16 4,4'-DDE	153093223	164532800	164532800	0.010	-7.47229	15.00000	Averaged	
17 Dieldrin	154624097	168343160	168343160	0.010	-8.87253	15.00000	Averaged	
18 Endrin	56045893	61844200	61844200	0.010	-10.34564	15.00000	Averaged	
20 4,4'-DDD	118550292	128976840	128976840	0.010	-8.79504	15.00000	Averaged	
22 Endosulfan II	54472683	59173520	59173520	0.010	-8.62971	15.00000	Averaged	
23 4,4'-DDT	115513445	122043680	122043680	0.010	-5.65323	15.00000	Averaged	
25 Endrin aldehyde	45825835	47456040	47456040	0.010	-3.55739	15.00000	Averaged	
27 Methoxychlor	57245897	63420920	63420920	0.010	-10.78684	15.00000	Averaged	
28 Endosulfan sulfate	117724932	128063880	128063880	0.010	-8.78229	15.00000	Averaged	
29 Endrin ketone	65981528	70205720	70205720	0.010	-6.40208	15.00000	Averaged	
$ 30 Decachlorobiphenyl	62427750	++++	0.00000	0.010	++++	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 8.50656
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\009F0901.D
Lab Smp Id: ICV
Inj Date : 22-FEB-2010 14:18
Operator : 093905 Inst ID: a2hp9.i
Smp Info : ICV
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Meth Date : 23-Feb-2010 07:04 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Peaks not detected for Quant. or Qual. signal(s).							
4 alpha-BHC					CAS #: 319-84-6		
4.445	4.445	0.000	5570667	0.02500	0.02766		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.858	4.858	0.000	4754039	0.02500	0.02662		
6 beta-BHC					CAS #: 319-85-7		
5.004	5.004	0.000	1217975	0.02500	0.02725		
7 delta-BHC					CAS #: 319-86-8		
5.245	5.245	0.000	4971078	0.02500	0.02753		
		Sum of Peak Amounts =			0.02753		
8 Heptachlor					CAS #: 76-44-8		
5.562	5.562	0.000	2400087	0.02500	0.02767		
10 Aldrin					CAS #: 309-00-2		
6.077	6.077	0.000	4453804	0.02500	0.02604		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.488	7.488	0.000	1327152	0.02500	0.02751		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.796	7.796	0.000	1454812	0.02500	0.02740		

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--------------------------------------------------------------------------------
   14 alpha-Chlordane                            CAS #: 5103-71-9
8.113    8.113    0.000         1501802 0.02500  0.02731
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
8.372	8.372	0.000	1420011	0.02500	0.02770		
16 4,4'-DDE					CAS #: 72-55-9		
8.447	8.447	0.000	4113320	0.02500	0.02687		
17 Dieldrin					CAS #: 60-57-1		
8.891	8.891	0.000	4208579	0.02500	0.02722		
18 Endrin					CAS #: 72-20-8		
9.321	9.321	0.000	1546105	0.02500	0.02759		
20 4,4'-DDD					CAS #: 72-54-8		
9.640	9.640	0.000	3224421	0.02500	0.02720		
22 Endosulfan II					CAS #: 33213-65-9		
9.746	9.746	0.000	1479338	0.02500	0.02716		
23 4,4'-DDT					CAS #: 50-29-3		
10.132	10.132	0.000	3051092	0.02500	0.02641		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.505	10.505	0.000	1186401	0.02500	0.02589		
27 Methoxychlor					CAS #: 72-43-5		
11.036	11.036	0.000	1585523	0.02500	0.02770		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.208	11.208	0.000	3201597	0.02500	0.02720		
29 Endrin ketone					CAS #: 53494-70-5		
11.602	11.602	0.000	1755143	0.02500	0.02660		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\009F0901.D

Date : 22-FEB-2010 14:18

Client ID:

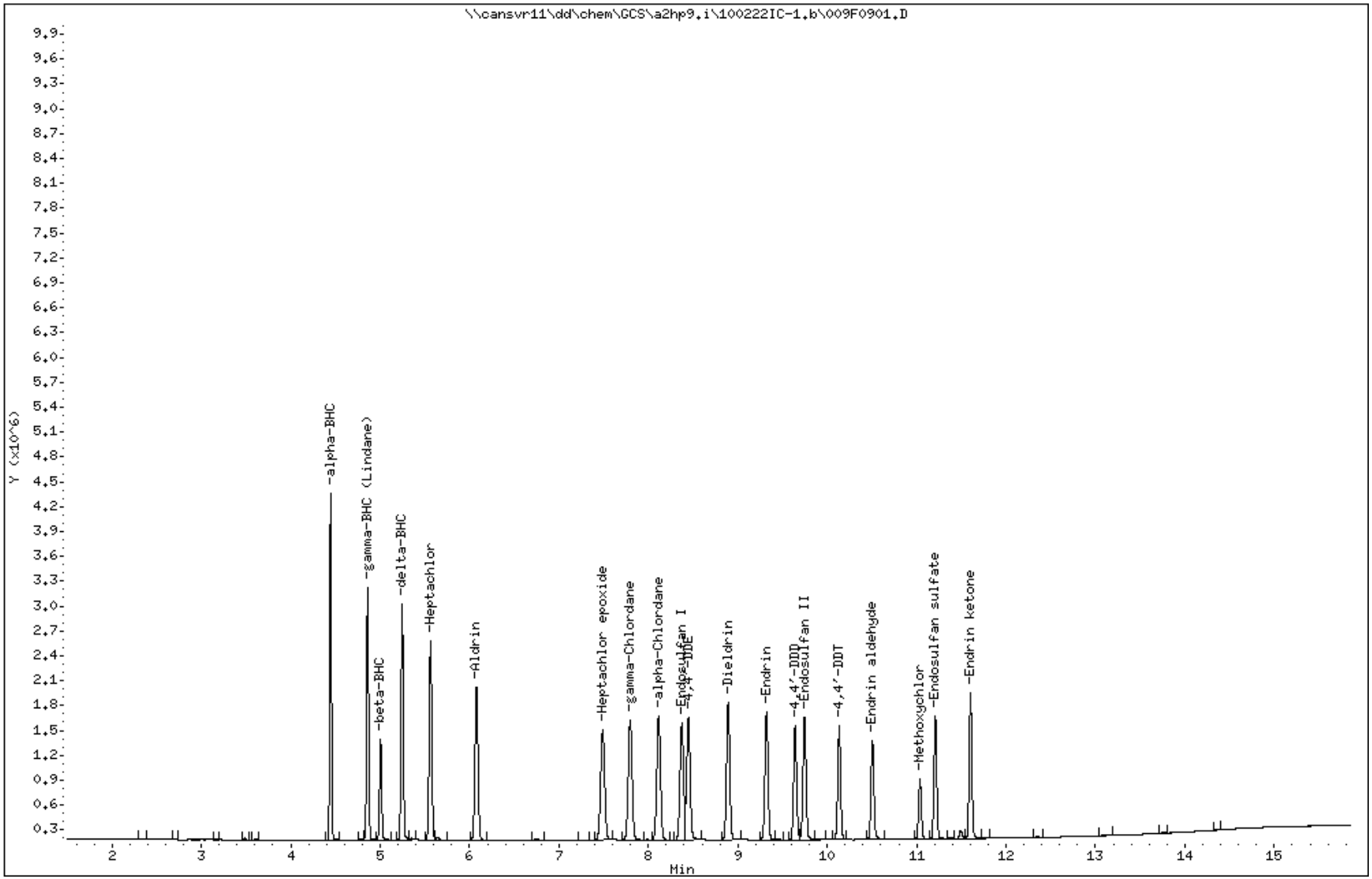
Instrument: a2hp9.i

Sample Info: ICV

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 14:18
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100222IC-1.b/009F0901.D
Lab Sample ID: ICV
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 3.748		
4) alpha-BHC	4.445	5570667	0.028	0.028
5) gamma-BHC (Lindane)	4.859	4754039	0.027	0.027
6) beta-BHC	5.005	2035634	0.027	0.027
7) delta-BHC	5.245	4971078	0.028	0.028
8) Heptachlor	5.563	4904039	0.028	0.028
10) Aldrin	6.077	4453804	0.026	0.026
12) Heptachlor epoxide	7.489	4217627	0.028	0.028
13) gamma-Chlordane	7.796	4388057	0.027	0.027
14) alpha-Chlordane	8.114	4343452	0.027	0.027
15) Endosulfan I	8.373	3936653	0.028	0.028
16) 4,4'-DDE	8.447	4113320	0.027	0.027
17) Dieldrin	8.891	4208579	0.027	0.027
18) Endrin	9.321	3815151	0.028	0.028
20) 4,4'-DDD	9.640	3224421	0.027	0.027
22) Endosulfan II	9.746	3613523	0.027	0.027
23) 4,4'-DDT	10.133	3051092	0.026	0.026
25) Endrin aldehyde	10.505	2729458	0.026	0.026
27) Methoxychlor	11.036	1585523	0.028	0.028
28) Endosulfan sulfate	11.209	3201597	0.027	0.027
29) Endrin ketone	11.602	3703386	0.027	0.027
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 13.162		

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\003F0301.D
Lab Smp Id: AB1 G250
Inj Date : 22-FEB-2010 11:49
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB1 G250,,1,1
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Meth Date : 22-Feb-2010 12:02 Quant Type: ESTD
Cal Date : 22-FEB-2010 11:49 Cal File: 003F0301.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.331	4.331	0.000	266589	0.00500	0.005102		
4 alpha-BHC					CAS #: 319-84-6		
5.235	5.235	0.000	298488	0.00500	0.004514		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.877	5.877	0.000	499167	0.00500	0.004646		
6 beta-BHC					CAS #: 319-85-7		
6.080	6.080	0.000	251808	0.00500	0.005422		
7 delta-BHC					CAS #: 319-86-8		
6.725	6.725	0.000	474867	0.00500	0.004622		
8 Heptachlor					CAS #: 76-44-8		
6.837	6.837	0.000	499516	0.00500	0.004788		
10 Aldrin					CAS #: 309-00-2		
7.659	7.659	0.000	150345	0.00500	0.004594		
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.024	9.024	0.000	449764	0.00500	0.005015		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.412	9.412	0.000	419904	0.00500	0.004764		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.702	9.702	0.000	427582	0.00500	0.005000		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.765    9.765    0.000          404104 0.00500  0.004987
-------------------------------------------------------------------------------
```

				AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
	16 4,4'-DDE					CAS #: 72-55-9	
10.113	10.113	0.000	371964	0.00500	0.004881		
	17 Dieldrin					CAS #: 60-57-1	
10.267	10.267	0.000	173247	0.00500	0.004653		
	18 Endrin					CAS #: 72-20-8	
10.769	10.769	0.000	164069	0.00500	0.004665		
	21 4,4'-DDD					CAS #: 72-54-8	
11.089	11.089	0.000	281578	0.00500	0.005161		
	22 Endosulfan II					CAS #: 33213-65-9	
11.130	11.130	0.000	174445	0.00500	0.005040		
	24 4,4'-DDT					CAS #: 50-29-3	
11.572	11.572	0.000	247102	0.00500	0.004427		
	25 Endrin aldehyde					CAS #: 7421-93-4	
11.678	11.678	0.000	137689	0.00500	0.005051		
	26 Endosulfan sulfate					CAS #: 1031-07-8	
12.102	12.102	0.000	158549	0.00500	0.005115		
	27 Methoxychlor					CAS #: 72-43-5	
12.625	12.625	0.000	138615	0.00500	0.005090		
	29 Endrin ketone					CAS #: 53494-70-5	
12.840	12.840	0.000	190106	0.00500	0.004960		
$	30 Decachlorobiphenyl					CAS #: 2051-24-3	
14.591	14.591	0.000	373928	0.00500	0.005719		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\003F0301.D

Page 1

Date : 22-FEB-2010 11:49

Client ID:

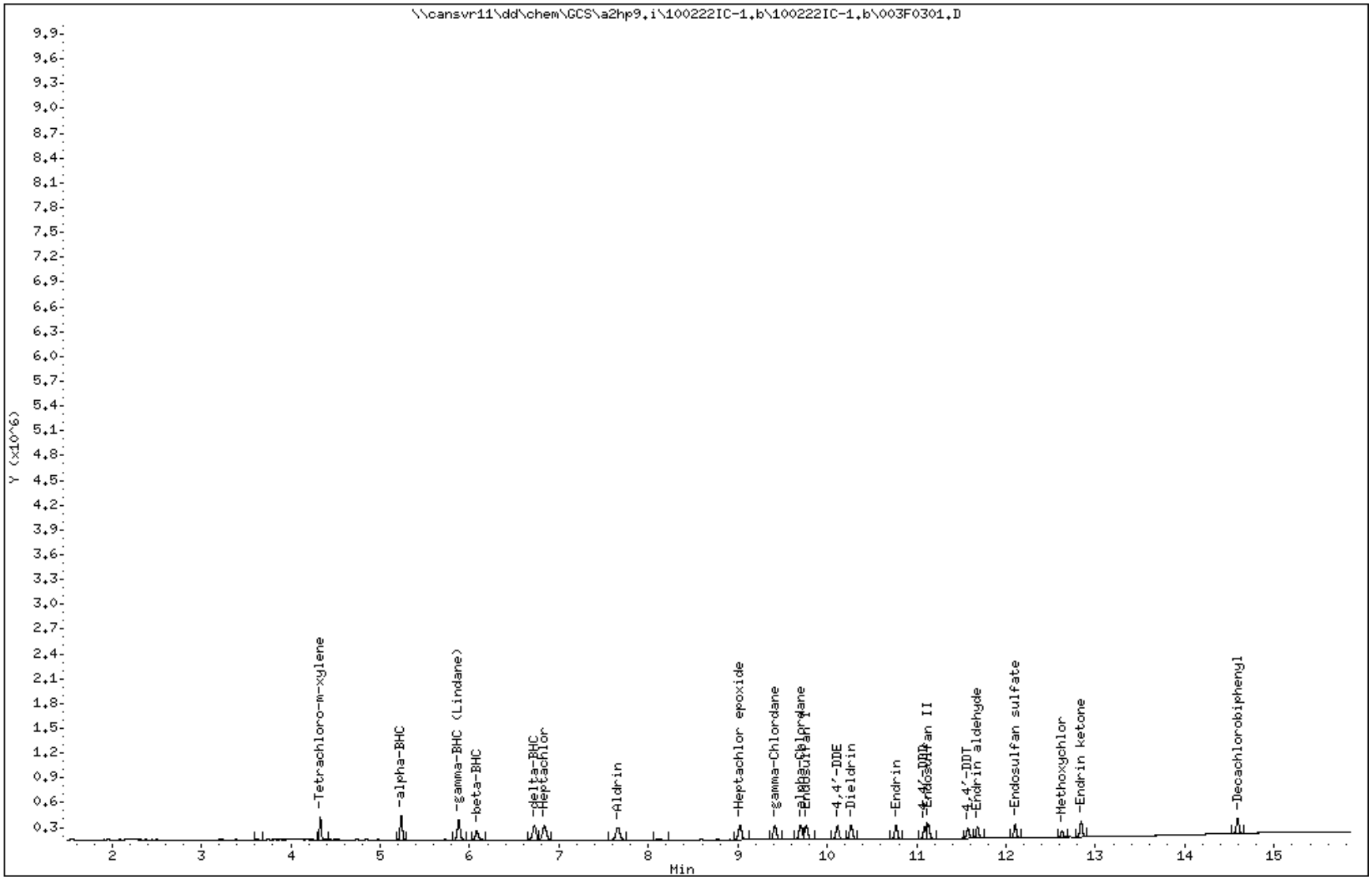
Instrument: a2hp9.i

Sample Info: AB1 G250,,1,1

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 11:49
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\003F0301.D
Lab Sample ID: AB1 G250
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.331	374067	0.005	0.005
4) alpha-BHC	5.235	523266	0.005	0.005
5) gamma-BHC (Lindane)	5.878	499167	0.005	0.005
6) beta-BHC	6.080	251808	0.005	0.005
7) delta-BHC	6.725	474867	0.005	0.005
8) Heptachlor	6.837	499516	0.005	0.005
10) Aldrin	7.660	480718	0.005	0.005
12) Heptachlor epoxide	9.025	449764	0.005	0.005
13) gamma-Chlordane	9.413	419904	0.005	0.005
14) alpha-Chlordane	9.702	427582	0.005	0.005
15) Endosulfan I	9.765	404104	0.005	0.005
16) 4,4'-DDE	10.114	371964	0.005	0.005
17) Dieldrin	10.267	394500	0.005	0.005
18) Endrin	10.770	356874	0.005	0.005
21) 4,4'-DDD	11.090	281578	0.005	0.005
22) Endosulfan II	11.130	377400	0.005	0.005
24) 4,4'-DDT	11.573	247102	0.004	0.004
25) Endrin aldehyde	11.679	289828	0.005	0.005
26) Endosulfan sulfate	12.102	321449	0.005	0.005
27) Methoxychlor	12.625	138615	0.005	0.005
29) Endrin ketone	12.840	381834	0.005	0.005
30) Decachlorobiphenyl	14.591	373928	0.006	0.006

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\004F0401.D
Lab Smp Id: AB2 G251
Inj Date : 22-FEB-2010 12:13
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB2 G251,,1,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Meth Date : 22-Feb-2010 12:27 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:13 Cal File: 004F0401.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.330	4.330	0.000	501663	0.01000	0.009562		
4 alpha-BHC						CAS #: 319-84-6	
5.234	5.234	0.000	602239	0.01000	0.009062		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.877	5.877	0.000	964312	0.01000	0.008976		
6 beta-BHC						CAS #: 319-85-7	
6.080	6.080	0.000	463950	0.01000	0.009991		
7 delta-BHC						CAS #: 319-86-8	
6.724	6.724	0.000	935027	0.01000	0.009051		
8 Heptachlor						CAS #: 76-44-8	
6.837	6.837	0.000	951206	0.01000	0.009133		
10 Aldrin						CAS #: 309-00-2	
7.658	7.658	0.000	291197	0.01000	0.008908		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.025	9.025	0.000	844650	0.01000	0.009455		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.413	9.413	0.000	813344	0.01000	0.009245		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.702	9.702	0.000	810958	0.01000	0.009478		

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   15 Endosulfan I                                CAS #: 959-98-8
9.765    9.765    0.000          760490 0.01000  0.009408
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.112	10.112	0.000	715574	0.01000	0.009366		
17 Dieldrin					CAS #: 60-57-1		
10.266	10.266	0.000	338714	0.01000	0.009092		
18 Endrin					CAS #: 72-20-8		
10.767	10.767	0.000	317576	0.01000	0.009041		
21 4,4'-DDD					CAS #: 72-54-8		
11.089	11.089	0.000	533893	0.01000	0.009739		
22 Endosulfan II					CAS #: 33213-65-9		
11.130	11.130	0.000	321906	0.01000	0.009303		
24 4,4'-DDT					CAS #: 50-29-3		
11.572	11.572	0.000	495630	0.01000	0.008938		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.679	11.679	0.000	262760	0.01000	0.009627		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.102	12.102	0.000	293709	0.01000	0.009477		
27 Methoxychlor					CAS #: 72-43-5		
12.625	12.625	0.000	264350	0.01000	0.009770		
29 Endrin ketone					CAS #: 53494-70-5		
12.840	12.840	0.000	351527	0.01000	0.009249		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.590	14.590	0.000	676255	0.01000	0.01036		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\004F0401.D

Page 1

Date : 22-FEB-2010 12:13

Client ID:

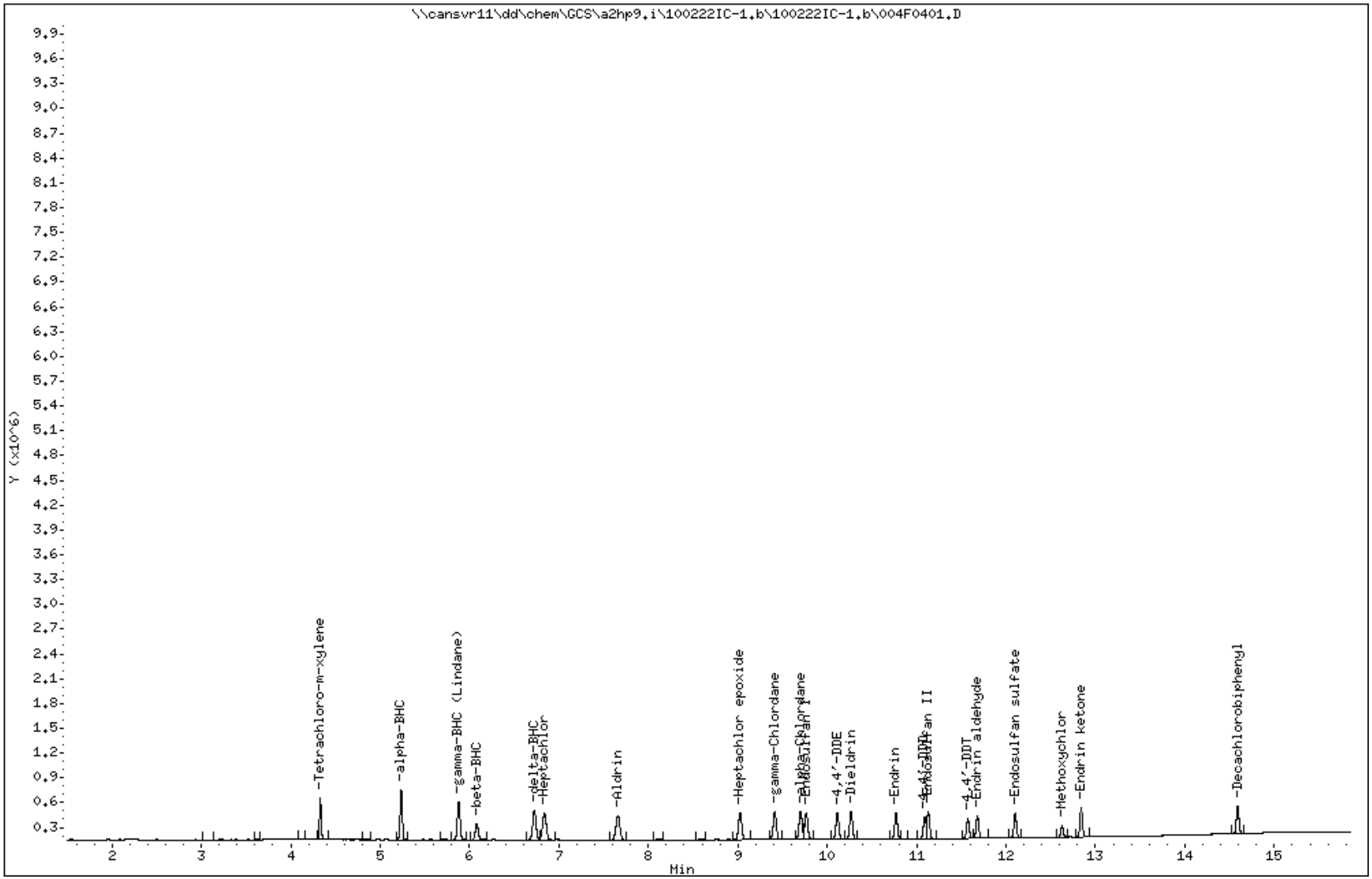
Instrument: a2hp9.i

Sample Info: AB2 G251,,1,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 12:13
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\004F0401.D
Lab Sample ID: AB2 G251
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.330	688017	0.010	0.010
4) alpha-BHC	5.235	1032871	0.009	0.009
5) gamma-BHC (Lindane)	5.878	964312	0.009	0.009
6) beta-BHC	6.080	463950	0.010	0.010
7) delta-BHC	6.725	935027	0.009	0.009
8) Heptachlor	6.837	951206	0.009	0.009
10) Aldrin	7.659	913742	0.009	0.009
12) Heptachlor epoxide	9.025	844650	0.009	0.009
13) gamma-Chlordane	9.414	813344	0.009	0.009
14) alpha-Chlordane	9.702	810958	0.009	0.009
15) Endosulfan I	9.765	760490	0.009	0.009
16) 4,4'-DDE	10.113	715574	0.009	0.009
17) Dieldrin	10.266	760935	0.009	0.009
18) Endrin	10.768	686648	0.009	0.009
21) 4,4'-DDD	11.090	533893	0.010	0.010
22) Endosulfan II	11.130	700999	0.009	0.009
24) 4,4'-DDT	11.573	495630	0.009	0.009
25) Endrin aldehyde	11.680	558547	0.010	0.010
26) Endosulfan sulfate	12.102	601505	0.009	0.009
27) Methoxychlor	12.625	264350	0.010	0.010
29) Endrin ketone	12.840	693139	0.009	0.009
30) Decachlorobiphenyl	14.590	676255	0.010	0.010

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\005F0501.D
Lab Smp Id: AB3 G252
Inj Date : 22-FEB-2010 12:38
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,1,3
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Meth Date : 22-Feb-2010 12:52 Quant Type: ESTD
Cal Date : 22-FEB-2010 12:38 Cal File: 005F0501.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.330	4.330	0.000	1290897	0.02500	0.02455		
4 alpha-BHC						CAS #: 319-84-6	
5.234	5.234	0.000	1660498	0.02500	0.02488		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.877	5.877	0.000	2542009	0.02500	0.02374		
6 beta-BHC						CAS #: 319-85-7	
6.079	6.079	0.000	1118022	0.02500	0.02414		
7 delta-BHC						CAS #: 319-86-8	
6.724	6.724	0.000	2485553	0.02500	0.02393		
8 Heptachlor						CAS #: 76-44-8	
6.837	6.837	0.000	2414643	0.02500	0.02330		
10 Aldrin						CAS #: 309-00-2	
7.658	7.658	0.000	770806	0.02500	0.02367		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.024	9.024	0.000	2129061	0.02500	0.02386		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.412	9.412	0.000	2082113	0.02500	0.02373		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.702	9.702	0.000	2048891	0.02500	0.02395		

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   15 Endosulfan I                                CAS #: 959-98-8
9.765    9.765    0.000         1908234 0.02500  0.02370
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.113	10.113	0.000	1825674	0.02500	0.02387		
17 Dieldrin					CAS #: 60-57-1		
10.266	10.266	0.000	894533	0.02500	0.02401		
18 Endrin					CAS #: 72-20-8		
10.767	10.767	0.000	837817	0.02500	0.02391		
21 4,4'-DDD					CAS #: 72-54-8		
11.088	11.088	0.000	1370767	0.02500	0.02465		
22 Endosulfan II					CAS #: 33213-65-9		
11.130	11.130	0.000	819972	0.02500	0.02374		
24 4,4'-DDT					CAS #: 50-29-3		
11.572	11.572	0.000	1233675	0.02500	0.02253		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.678	11.678	0.000	650615	0.02500	0.02388		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.102	12.102	0.000	737778	0.02500	0.02380		
27 Methoxychlor					CAS #: 72-43-5		
12.625	12.625	0.000	637226	0.02500	0.02370		
29 Endrin ketone					CAS #: 53494-70-5		
12.839	12.839	0.000	882554	0.02500	0.02335		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.589	14.589	0.000	1615624	0.02500	0.02469		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\005F0501.D

Page 1

Date : 22-FEB-2010 12:38

Client ID:

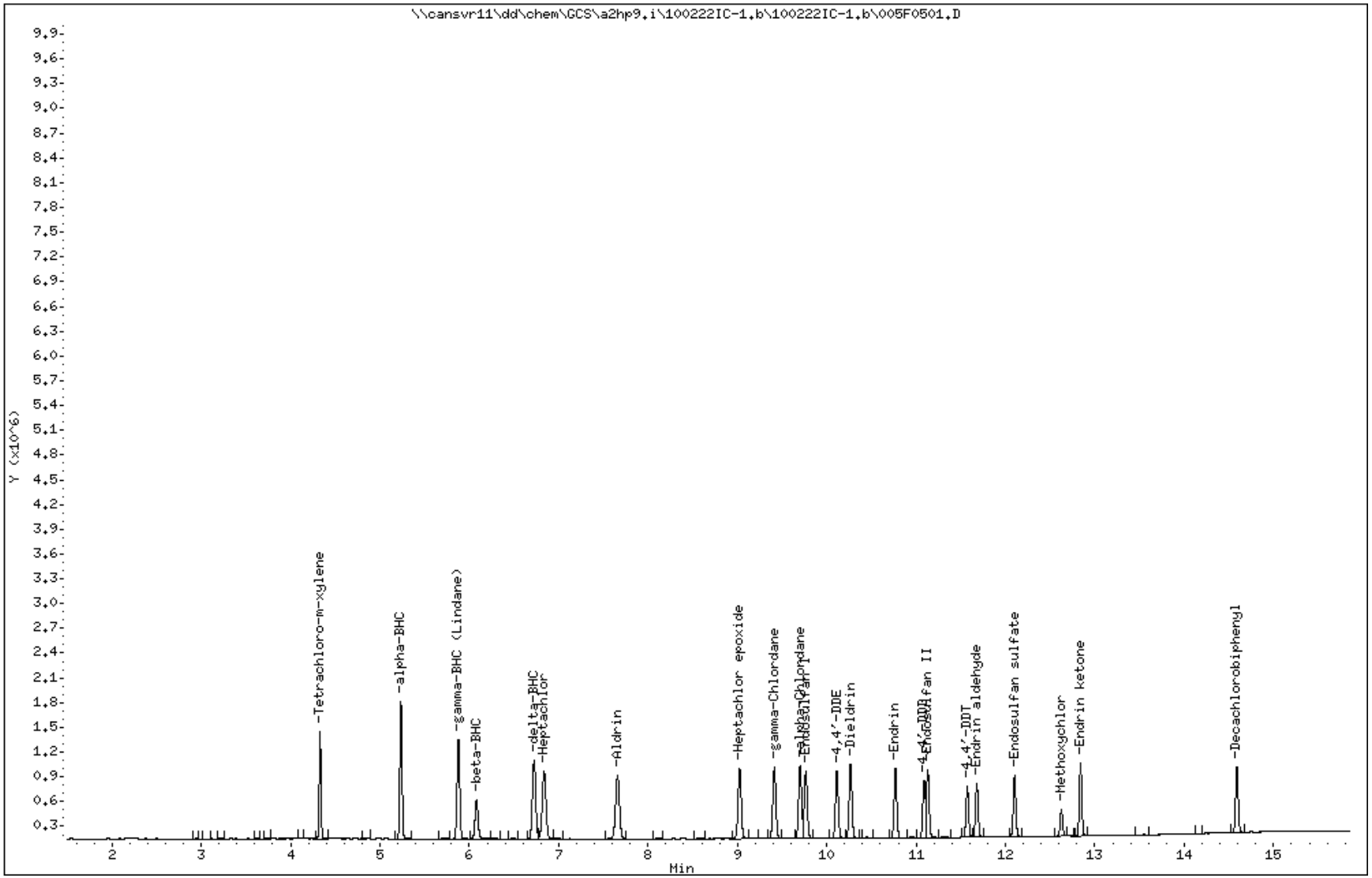
Instrument: a2hp9.i

Sample Info: AB3 G252,,1,3

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 12:38
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\005F0501.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.330	1756252	0.025	0.025
4)	alpha-BHC	5.235	2843038	0.025	0.025
5)	gamma-BHC (Lindane)	5.878	2542009	0.024	0.024
6)	beta-BHC	6.080	1118022	0.024	0.024
7)	delta-BHC	6.725	2485553	0.024	0.024
8)	Heptachlor	6.837	2414643	0.023	0.023
10)	Aldrin	7.659	2395219	0.024	0.024
12)	Heptachlor epoxide	9.025	2129061	0.024	0.024
13)	gamma-Chlordane	9.413	2082113	0.024	0.024
14)	alpha-Chlordane	9.702	2048891	0.024	0.024
15)	Endosulfan I	9.765	1908234	0.024	0.024
16)	4,4'-DDE	10.114	1825674	0.024	0.024
17)	Dieldrin	10.266	1975621	0.024	0.024
18)	Endrin	10.768	1766807	0.024	0.024
21)	4,4'-DDD	11.089	1370767	0.025	0.025
22)	Endosulfan II	11.130	1763920	0.024	0.024
24)	4,4'-DDT	11.572	1233675	0.023	0.023
25)	Endrin aldehyde	11.679	1316593	0.024	0.024
26)	Endosulfan sulfate	12.102	1502145	0.024	0.024
27)	Methoxychlor	12.625	637226	0.024	0.024
29)	Endrin ketone	12.840	1708188	0.023	0.023
30)	Decachlorobiphenyl	14.590	1615624	0.025	0.025

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\006F0601.D
Lab Smp Id: AB4 G253
Inj Date : 22-FEB-2010 13:03
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB4 G253,,1,4
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Meth Date : 22-Feb-2010 13:17 Quant Type: ESTD
Cal Date : 22-FEB-2010 13:03 Cal File: 006F0601.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.330	4.330	0.000	2621867	0.05000	0.05009		
4 alpha-BHC						CAS #: 319-84-6	
5.234	5.234	0.000	3514260	0.05000	0.05279		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.877	5.877	0.000	5424688	0.05000	0.05105		
6 beta-BHC						CAS #: 319-85-7	
6.080	6.080	0.000	2233131	0.05000	0.04851		
7 delta-BHC						CAS #: 319-86-8	
6.723	6.723	0.000	5426881	0.05000	0.05220		
8 Heptachlor						CAS #: 76-44-8	
6.835	6.835	0.000	5037113	0.05000	0.04928		
10 Aldrin						CAS #: 309-00-2	
7.657	7.657	0.000	1651355	0.05000	0.05116		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.025	9.025	0.000	4432613	0.05000	0.05000		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.412	9.412	0.000	4345409	0.05000	0.04997		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.701	9.701	0.000	4275633	0.05000	0.05019		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.765    9.765    0.000         3966088 0.05000  0.04968
-------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
	16 4,4'-DDE				CAS #: 72-55-9		
10.114	10.114	0.000	3908560	0.05000	0.05123		
	17 Dieldrin				CAS #: 60-57-1		
10.265	10.265	0.000	1900800	0.05000	0.05127		
	18 Endrin				CAS #: 72-20-8		
10.768	10.768	0.000	1770341	0.05000	0.05091		
	21 4,4'-DDD				CAS #: 72-54-8		
11.090	11.090	0.000	2956453	0.05000	0.05237		
	22 Endosulfan II				CAS #: 33213-65-9		
11.130	11.130	0.000	1742563	0.05000	0.05070		
	24 4,4'-DDT				CAS #: 50-29-3		
11.573	11.573	0.000	2774033	0.05000	0.05114		
	25 Endrin aldehyde				CAS #: 7421-93-4		
11.679	11.679	0.000	1374013	0.05000	0.05060		
	26 Endosulfan sulfate				CAS #: 1031-07-8		
12.102	12.102	0.000	1553223	0.05000	0.05025		
	27 Methoxychlor				CAS #: 72-43-5		
12.625	12.625	0.000	1351737	0.05000	0.05055		
	29 Endrin ketone				CAS #: 53494-70-5		
12.841	12.841	0.000	1885456	0.05000	0.05024		
$	30 Decachlorobiphenyl				CAS #: 2051-24-3		
14.590	14.590	0.000	3207879	0.05000	0.04929		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\006F0601.D

Page 1

Date : 22-FEB-2010 13:03

Client ID:

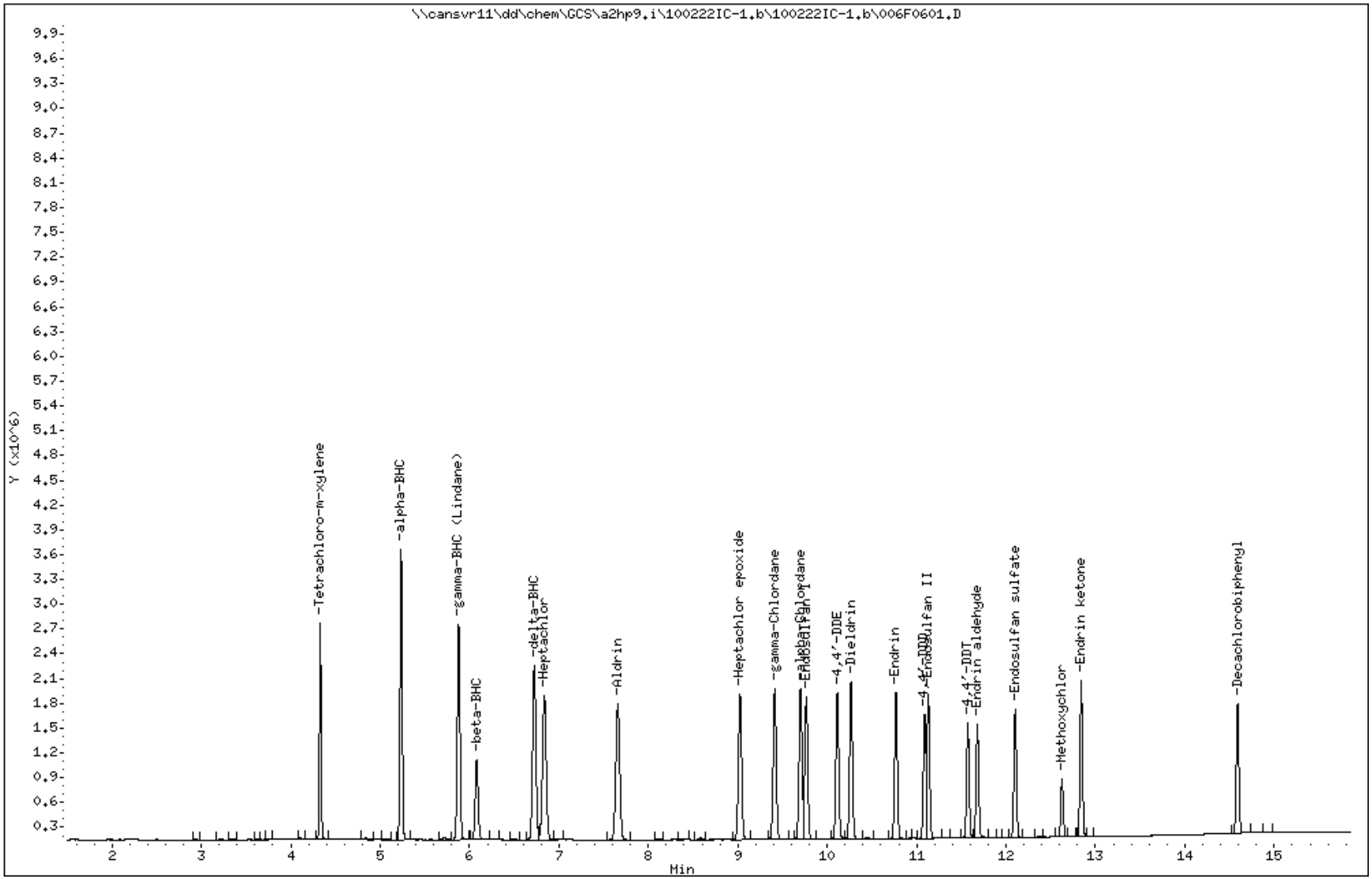
Instrument: a2hp9.i

Sample Info: AB4 G253,,1,4

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 13:03
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\006F0601.D
Lab Sample ID: AB4 G253
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.330	3522341	0.050	0.050
4) alpha-BHC	5.234	6028394	0.053	0.053
5) gamma-BHC (Lindane)	5.878	5424688	0.051	0.051
6) beta-BHC	6.080	2233131	0.049	0.049
7) delta-BHC	6.723	5426881	0.052	0.052
8) Heptachlor	6.836	5037113	0.049	0.049
10) Aldrin	7.658	5025036	0.051	0.051
12) Heptachlor epoxide	9.025	4432613	0.050	0.050
13) gamma-Chlordane	9.413	4345409	0.050	0.050
14) alpha-Chlordane	9.702	4275633	0.050	0.050
15) Endosulfan I	9.766	3966088	0.050	0.050
16) 4,4'-DDE	10.114	3908560	0.051	0.051
17) Dieldrin	10.266	4195744	0.051	0.051
18) Endrin	10.768	3768491	0.051	0.051
21) 4,4'-DDD	11.090	2956453	0.052	0.052
22) Endosulfan II	11.131	3702412	0.051	0.051
24) 4,4'-DDT	11.573	2774033	0.051	0.051
25) Endrin aldehyde	11.679	2828056	0.051	0.051
26) Endosulfan sulfate	12.103	3093234	0.050	0.050
27) Methoxychlor	12.626	1351737	0.051	0.051
29) Endrin ketone	12.842	3632379	0.050	0.050
30) Decachlorobiphenyl	14.590	3207879	0.049	0.049

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\007F0701.D
Lab Smp Id: AB5 G254
Inj Date : 22-FEB-2010 13:27
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB5 G254,,1,5
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Meth Date : 22-Feb-2010 13:41 Quant Type: ESTD
Cal Date : 22-FEB-2010 13:27 Cal File: 007F0701.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.329	4.329	0.000	5295389	0.10000	0.1007		
4 alpha-BHC						CAS #: 319-84-6	
5.234	5.234	0.000	7133969	0.10000	0.1065		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.877	5.877	0.000	11134227	0.10000	0.1047		
6 beta-BHC						CAS #: 319-85-7	
6.079	6.079	0.000	4364559	0.10000	0.09489		
7 delta-BHC						CAS #: 319-86-8	
6.723	6.723	0.000	11086044	0.10000	0.1061		
8 Heptachlor						CAS #: 76-44-8	
6.836	6.836	0.000	10196154	0.10000	0.1004		
10 Aldrin						CAS #: 309-00-2	
7.658	7.658	0.000	3345547	0.10000	0.1038		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.025	9.025	0.000	8794438	0.10000	0.09932		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.413	9.413	0.000	8721308	0.10000	0.1006		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.701	9.701	0.000	8458927	0.10000	0.09934		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.766    9.766    0.000         7862976 0.10000  0.09880
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.112	10.112	0.000	7745597	0.10000	0.1013		
17 Dieldrin					CAS #: 60-57-1		
10.266	10.266	0.000	3860829	0.10000	0.1039		
18 Endrin					CAS #: 72-20-8		
10.769	10.769	0.000	3517019	0.10000	0.1015		
21 4,4'-DDD					CAS #: 72-54-8		
11.088	11.088	0.000	5881724	0.10000	0.1029		
22 Endosulfan II					CAS #: 33213-65-9		
11.131	11.131	0.000	3406819	0.10000	0.09934		
24 4,4'-DDT					CAS #: 50-29-3		
11.572	11.572	0.000	5496969	0.10000	0.1022		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.679	11.679	0.000	2659597	0.10000	0.09816		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.101	12.101	0.000	3038628	0.10000	0.09838		
27 Methoxychlor					CAS #: 72-43-5		
12.625	12.625	0.000	2590319	0.10000	0.09694		
29 Endrin ketone					CAS #: 53494-70-5		
12.840	12.840	0.000	3703800	0.10000	0.09921		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.589	14.589	0.000	5974330	0.10000	0.09155		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\007F0701.D

Date : 22-FEB-2010 13:27

Client ID:

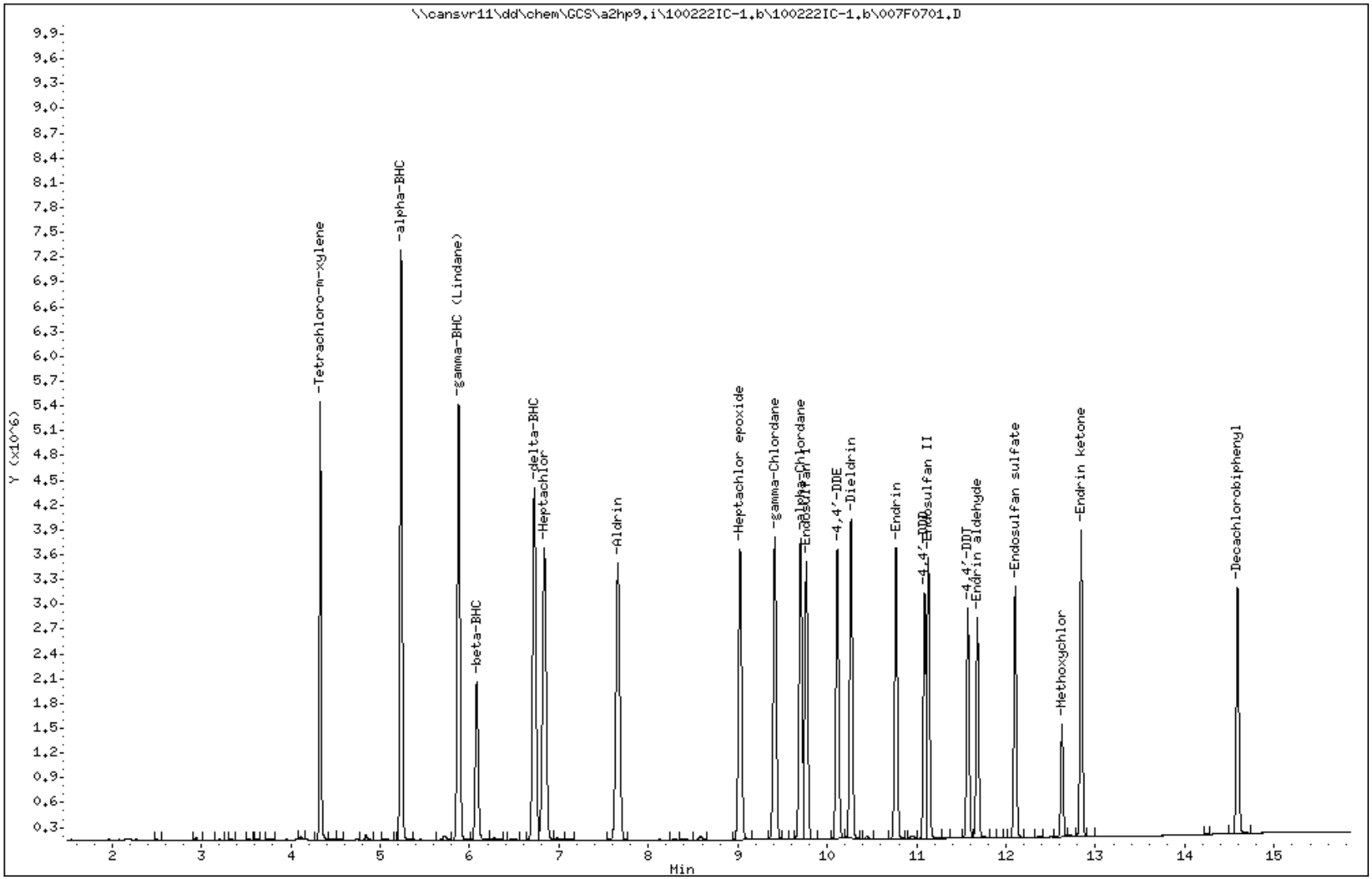
Instrument: a2hp9.i

Sample Info: AB5 G254,,1,5

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 13:27
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\007F0701.D
Lab Sample ID: AB5 G254
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.329	7094639	0.101	0.101
4) alpha-BHC	5.234	12419200	0.106	0.106
5) gamma-BHC (Lindane)	5.878	11134227	0.105	0.105
6) beta-BHC	6.079	4364559	0.095	0.095
7) delta-BHC	6.724	11086044	0.106	0.106
8) Heptachlor	6.836	10196154	0.100	0.100
10) Aldrin	7.659	10239284	0.104	0.104
12) Heptachlor epoxide	9.025	8794438	0.099	0.099
13) gamma-Chlordane	9.414	8721308	0.101	0.101
14) alpha-Chlordane	9.702	8458927	0.099	0.099
15) Endosulfan I	9.766	7862976	0.099	0.099
16) 4,4'-DDE	10.113	7745597	0.101	0.101
17) Dieldrin	10.266	8393264	0.104	0.104
18) Endrin	10.769	7458553	0.102	0.102
21) 4,4'-DDD	11.089	5881724	0.103	0.103
22) Endosulfan II	11.131	7117120	0.099	0.099
24) 4,4'-DDT	11.573	5496969	0.102	0.102
25) Endrin aldehyde	11.679	5373422	0.098	0.098
26) Endosulfan sulfate	12.102	6022053	0.098	0.098
27) Methoxychlor	12.625	2590319	0.097	0.097
29) Endrin ketone	12.840	7040067	0.099	0.099
30) Decachlorobiphenyl	14.589	5974330	0.092	0.092

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\008F0801.D
Lab Smp Id: AB6 G255
Inj Date : 22-FEB-2010 13:53
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB6 G255,,1,6
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Meth Date : 22-Feb-2010 14:06 Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.330	4.330	0.000	11152753	0.20000	0.2116		
4 alpha-BHC						CAS #: 319-84-6	
5.234	5.234	0.000	15284847	0.20000	0.2268		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.879	5.879	0.000	23667135	0.20000	0.2232		
6 beta-BHC						CAS #: 319-85-7	
6.080	6.080	0.000	9347210	0.20000	0.2028		
7 delta-BHC						CAS #: 319-86-8	
6.724	6.724	0.000	24637916	0.20000	0.2345		
8 Heptachlor						CAS #: 76-44-8	
6.838	6.838	0.000	21954290	0.20000	0.2180		
10 Aldrin						CAS #: 309-00-2	
7.659	7.659	0.000	7201779	0.20000	0.2244		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.025	9.025	0.000	18863670	0.20000	0.2134		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.414	9.414	0.000	19264267	0.20000	0.2227		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.701	9.701	0.000	18534259	0.20000	0.2175		

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   15 Endosulfan I                                CAS #: 959-98-8
9.766    9.766    0.000        16978783 0.20000   0.2140
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.113	10.113	0.000	17427576	0.20000	0.2264		
17 Dieldrin					CAS #: 60-57-1		
10.267	10.267	0.000	8316230	0.20000	0.2242		
18 Endrin					CAS #: 72-20-8		
10.769	10.769	0.000	7806728	0.20000	0.2255		
21 4,4'-DDD					CAS #: 72-54-8		
11.089	11.089	0.000	13384278	0.20000	0.2298		
22 Endosulfan II					CAS #: 33213-65-9		
11.130	11.130	0.000	7391832	0.20000	0.2156		
24 4,4'-DDT					CAS #: 50-29-3		
11.573	11.573	0.000	12843067	0.20000	0.2386		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.679	11.679	0.000	5824370	0.20000	0.2143		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.103	12.103	0.000	6866117	0.20000	0.2210		
27 Methoxychlor					CAS #: 72-43-5		
12.625	12.625	0.000	5874977	0.20000	0.2176		
29 Endrin ketone					CAS #: 53494-70-5		
12.840	12.840	0.000	8333916	0.20000	0.2223		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.589	14.589	0.000	12854834	0.20000	0.1952		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\008F0801.D

Page 1

Date : 22-FEB-2010 13:53

Client ID:

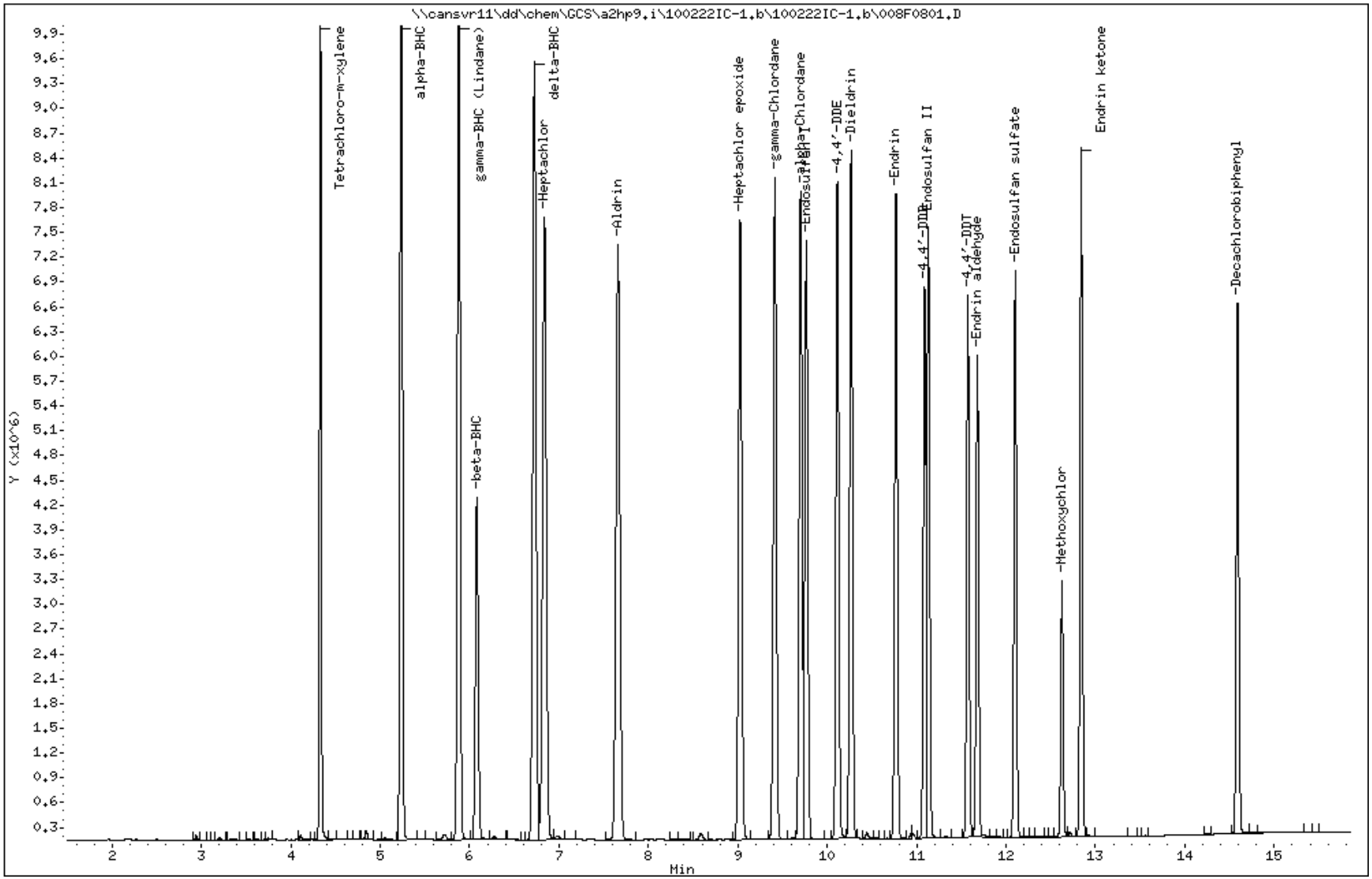
Instrument: a2hp9.i

Sample Info: AB6 G255,,1,6

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 13:53
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\008F0801.D
Lab Sample ID: AB6 G255
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.331	14878593	0.212	0.212
4) alpha-BHC	5.235	26561029	0.227	0.227
5) gamma-BHC (Lindane)	5.879	23667135	0.223	0.223
6) beta-BHC	6.081	9347210	0.203	0.203
7) delta-BHC	6.724	24637916	0.234	0.234
8) Heptachlor	6.838	21954290	0.218	0.218
10) Aldrin	7.660	22186215	0.224	0.224
12) Heptachlor epoxide	9.026	18863670	0.213	0.213
13) gamma-Chlordane	9.414	19264267	0.223	0.223
14) alpha-Chlordane	9.702	18534259	0.217	0.217
15) Endosulfan I	9.767	16978783	0.214	0.214
16) 4,4'-DDE	10.113	17427576	0.226	0.226
17) Dieldrin	10.267	18372212	0.224	0.224
18) Endrin	10.769	16621705	0.226	0.226
21) 4,4'-DDD	11.089	13384278	0.230	0.230
22) Endosulfan II	11.131	15547065	0.216	0.216
24) 4,4'-DDT	11.573	12843067	0.239	0.239
25) Endrin aldehyde	11.679	11771985	0.214	0.214
26) Endosulfan sulfate	12.103	13413374	0.221	0.221
27) Methoxychlor	12.626	5874977	0.218	0.218
29) Endrin ketone	12.841	15628818	0.222	0.222
30) Decachlorobiphenyl	14.589	12854834	0.195	0.195

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 22-FEB-2010 14:18
Lab File ID: 009F0901.D Init. Cal. Date(s): 04-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 10:17 13:53
Lab Sample ID: ICV Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	52712496	++++	++++	0.000	++++	15.00000	Averaged	<-
4 alpha-BHC	67398424	74395680	74395680	0.010	-10.38193	15.00000	Averaged	
5 gamma-BHC (Lindane)	106019444	114263400	114263400	0.010	-7.77589	15.00000	Averaged	
6 beta-BHC	46086957	50184600	50184600	0.010	-8.89111	15.00000	Averaged	
7 delta-BHC	105080977	113719880	113719880	0.010	-8.22119	15.00000	Averaged	
8 Heptachlor	100680795	109403000	109403000	0.010	-8.66323	15.00000	Averaged	
10 Aldrin	32085401	34565400	34565400	0.010	-7.72937	15.00000	Averaged	
12 Heptachlor epoxide	88415872	95183920	95183920	0.010	-7.65479	15.00000	Averaged	
13 gamma-Chlordane	86507053	92858240	92858240	0.010	-7.34181	15.00000	Averaged	
14 alpha-Chlordane	85223511	91372560	91372560	0.010	-7.21520	15.00000	Averaged	
15 Endosulfan I	79340766	85787720	85787720	0.010	-8.12565	15.00000	Averaged	
16 4,4'-DDE	34367088	37077840	37077840	0.010	-7.88764	15.00000	Averaged	
17 Dieldrin	37084593	40126120	40126120	0.010	-8.20159	15.00000	Averaged	
18 Endrin	34615788	37355000	37355000	0.010	-7.91319	15.00000	Averaged	
21 4,4'-DDD	29261093	31282160	31282160	0.010	-6.90701	15.00000	Averaged	
22 Endosulfan II	34292848	36377640	36377640	0.010	-6.07938	15.00000	Averaged	
24 4,4'-DDT	26868558	28242320	28242320	0.010	-5.11290	15.00000	Averaged	
25 Endrin aldehyde	27172747	27898600	27898600	0.010	-2.67125	15.00000	Averaged	
26 Endosulfan sulfate	31062191	33076800	33076800	0.010	-6.48573	15.00000	Averaged	
27 Methoxychlor	26993309	29842600	29842600	0.010	-10.55554	15.00000	Averaged	
29 Endrin ketone	37482127	38057560	38057560	0.010	-1.53522	15.00000	Averaged	
$ 30 Decachlorobiphenyl	65868518	++++	0.00000	0.010	++++	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 7.26748
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\009F0901.D
Lab Smp Id: ICV
Inj Date : 22-FEB-2010 14:18
Operator : 093905 Inst ID: a2hp9.i
Smp Info : ICV
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Meth Date : 23-Feb-2010 07:20 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
Peaks not detected for Quant. or Qual. signal(s).							
4 alpha-BHC						CAS #: 319-84-6	
5.235	5.235	0.000	1859892	0.02500	0.02760		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.878	5.878	0.000	2856585	0.02500	0.02694		
6 beta-BHC						CAS #: 319-85-7	
6.080	6.080	0.000	1254615	0.02500	0.02722		
7 delta-BHC						CAS #: 319-86-8	
6.724	6.724	0.000	2842997	0.02500	0.02706		
8 Heptachlor						CAS #: 76-44-8	
6.837	6.837	0.000	2735075	0.02500	0.02716		
10 Aldrin						CAS #: 309-00-2	
7.658	7.658	0.000	864135	0.02500	0.02693		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.025	9.025	0.000	2379598	0.02500	0.02691		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.413	9.413	0.000	2321456	0.02500	0.02684		

```
   14 alpha-Chlordane                            CAS #: 5103-71-9
9.701    9.701    0.000         2284314 0.02500  0.02680
--------------------------------------------------------------------------------
   15 Endosulfan I                               CAS #: 959-98-8
9.765    9.765    0.000         2144693 0.02500  0.02703
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
10.113	10.113	0.000	926946	0.02500	0.02697		
17 Dieldrin						CAS #: 60-57-1	
10.267	10.267	0.000	1003153	0.02500	0.02705		
18 Endrin						CAS #: 72-20-8	
10.769	10.769	0.000	933875	0.02500	0.02698		
21 4,4'-DDD						CAS #: 72-54-8	
11.089	11.089	0.000	782054	0.02500	0.02673		
22 Endosulfan II						CAS #: 33213-65-9	
11.131	11.131	0.000	909441	0.02500	0.02652		
24 4,4'-DDT						CAS #: 50-29-3	
11.572	11.572	0.000	706058	0.02500	0.02628		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.679	11.679	0.000	697465	0.02500	0.02567		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.102	12.102	0.000	826920	0.02500	0.02662		
27 Methoxychlor						CAS #: 72-43-5	
12.625	12.625	0.000	746065	0.02500	0.02764		
29 Endrin ketone						CAS #: 53494-70-5	
12.840	12.840	0.000	951439	0.02500	0.02538		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\009F0901.D

Page 1

Date : 22-FEB-2010 14:18

Client ID:

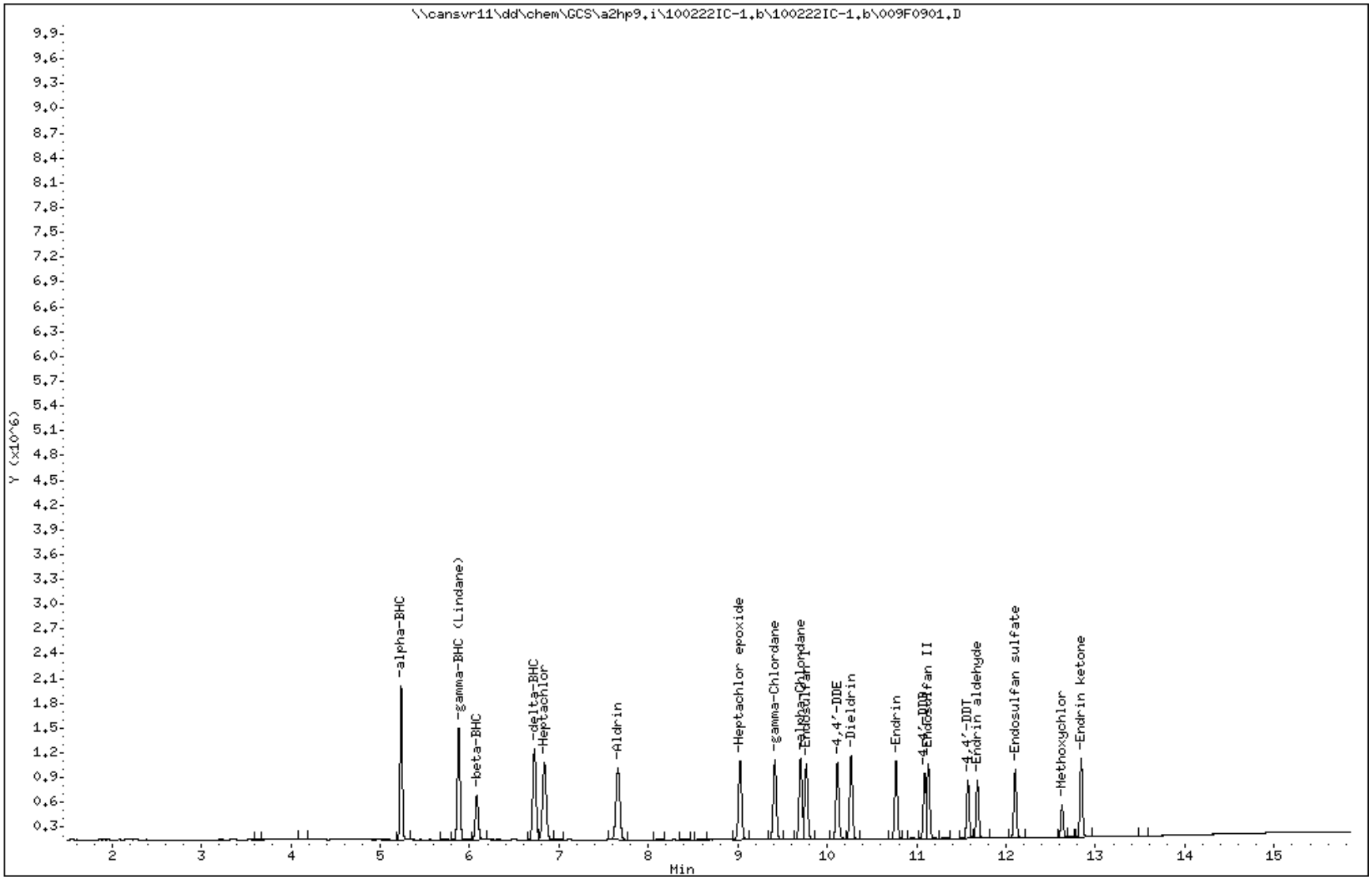
Instrument: a2hp9.i

Sample Info: ICV

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 22-FEB-2010 14:18
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100222IC-1.b/100222IC-1.b/009F0901.D
Lab Sample ID: ICV
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 4.331		
4) alpha-BHC	5.235	3177490	0.028	0.028
5) gamma-BHC (Lindane)	5.879	2856585	0.027	0.027
6) beta-BHC	6.080	1254615	0.027	0.027
7) delta-BHC	6.725	2842997	0.027	0.027
8) Heptachlor	6.837	2735075	0.027	0.027
10) Aldrin	7.659	2658493	0.027	0.027
12) Heptachlor epoxide	9.025	2379598	0.027	0.027
13) gamma-Chlordane	9.414	2321456	0.027	0.027
14) alpha-Chlordane	9.701	2284314	0.027	0.027
15) Endosulfan I	9.765	2144693	0.027	0.027
16) 4,4'-DDE	10.114	2089240	0.027	0.027
17) Dieldrin	10.267	2229599	0.027	0.027
18) Endrin	10.770	1979187	0.027	0.027
21) 4,4'-DDD	11.090	1564188	0.027	0.027
22) Endosulfan II	11.131	1958839	0.027	0.027
24) 4,4'-DDT	11.573	1424606	0.026	0.026
25) Endrin aldehyde	11.680	1459813	0.026	0.026
26) Endosulfan sulfate	12.102	1675393	0.027	0.027
27) Methoxychlor	12.625	746065	0.028	0.028
29) Endrin ketone	12.840	1879912	0.025	0.025
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.591		

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\003F0301.D
Lab Smp Id: TOX1 G268
Inj Date : 04-FEB-2010 10:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX1 G268,,1,1
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m
Meth Date : 05-Feb-2010 15:22 vandorenc Quant Type: ESTD
Cal Date : 04-FEB-2010 10:17 Cal File: 003F0301.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.960	9.960	0.000	281520	0.20000	0.2000	80.00- 120.00	100.00
10.392	10.392	0.000	264283	0.20000	0.2000	114.04- 154.04	93.88
10.539	10.539	0.000	249577	0.20000	0.2000	115.64- 155.64	88.65
11.099	11.099	0.000	367070	0.20000	0.2000	52.78- 92.78	130.39
11.204	11.204	0.000	318098	0.20000	0.2000	69.36- 109.36	112.99
		Average of Peak Amounts =		0.20000			

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\003F0301.D

Page 1

Date : 04-FEB-2010 10:17

Client ID:

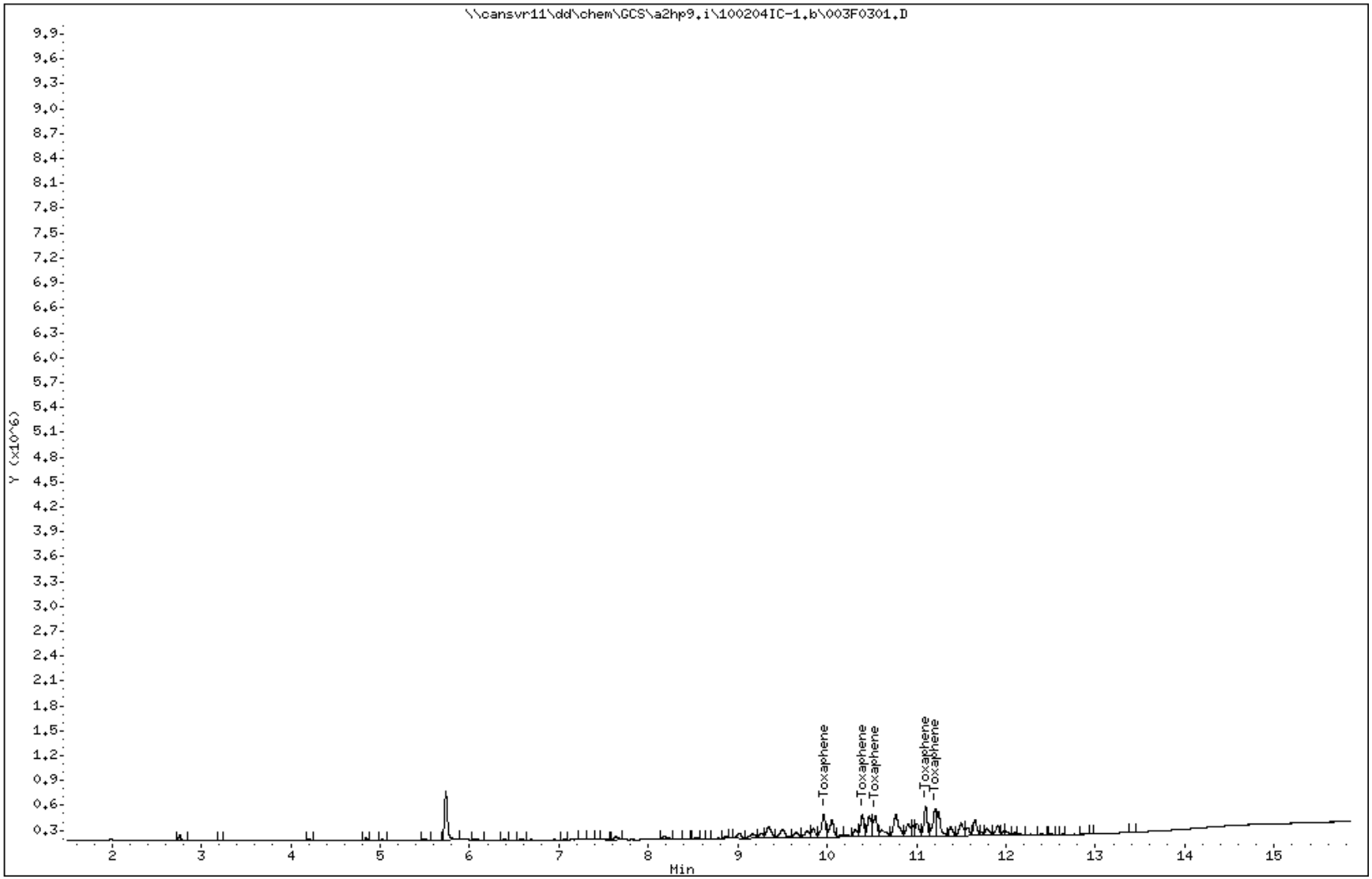
Instrument: a2hp9.i

Sample Info: TOX1 G268,,1,1

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 04-FEB-2010 10:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100204IC-1.b/003F0301.D
Lab Sample ID: TOX1 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.960	865548	0.200	0.200

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\004F0401.D
Lab Smp Id: TOX2 G268
Inj Date : 04-FEB-2010 10:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX2 G268,,1,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m
Meth Date : 05-Feb-2010 15:22 vandorenc Quant Type: ESTD
Cal Date : 04-FEB-2010 10:42 Cal File: 004F0401.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.958	9.958	0.000	765919	0.50000	0.5211	80.00- 120.00	100.00
10.390	10.390	0.000	750490	0.50000	0.5318	114.04- 154.04	97.99
10.537	10.537	0.000	692712	0.50000	0.5261	115.64- 155.64	90.44
11.100	11.100	0.000	988580	0.50000	0.5186	52.78- 92.78	129.07
11.203	11.203	0.000	910119	0.50000	0.5337	69.36- 109.36	118.83
		Average of Peak Amounts =			0.52626		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\004F0401.D

Date : 04-FEB-2010 10:42

Client ID:

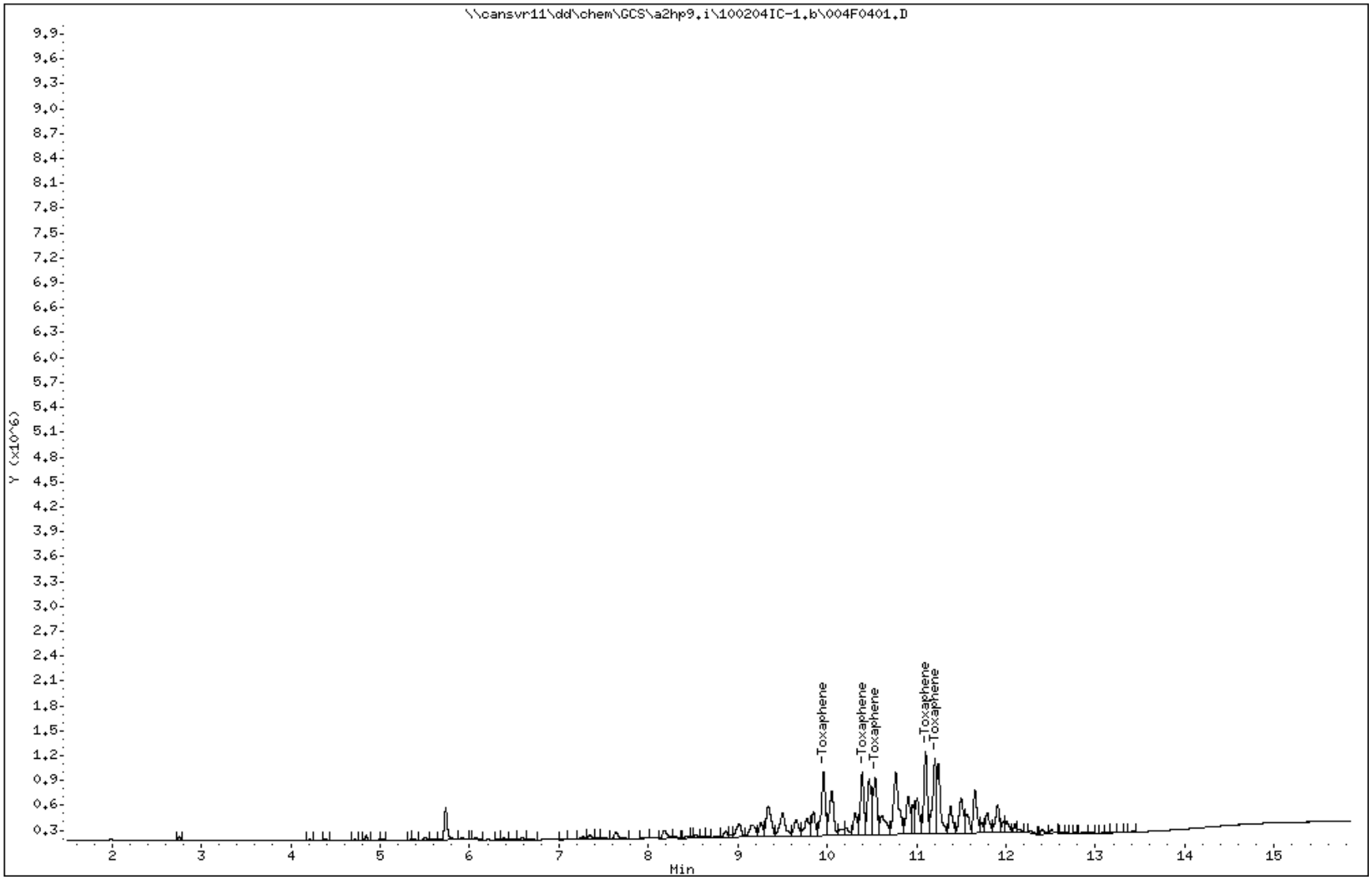
Instrument: a2hp9.i

Sample Info: TOX2 G268,,1,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 04-FEB-2010 10:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100204IC-1.b/004F0401.D
Lab Sample ID: TOX2 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.959	2417494	0.521	0.521

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\005F0501.D
Lab Smp Id: TOX3 G268
Inj Date : 04-FEB-2010 11:07
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,1,3
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m
Meth Date : 05-Feb-2010 15:22 vandorenc Quant Type: ESTD
Cal Date : 04-FEB-2010 11:07 Cal File: 005F0501.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.958	9.958	0.000	1634576	1.00000	1.072	80.00- 120.00	100.00
10.389	10.389	0.000	1582183	1.00000	1.078	114.04- 154.04	96.79
10.538	10.538	0.000	1449321	1.00000	1.065	115.64- 155.64	88.67
11.099	11.099	0.000	2039092	1.00000	1.045	52.78- 92.78	124.75
11.202	11.202	0.000	1909677	1.00000	1.077	69.36- 109.36	116.83
		Average of Peak Amounts =			1.06740		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\005F0501.D

Page 1

Date : 04-FEB-2010 11:07

Client ID:

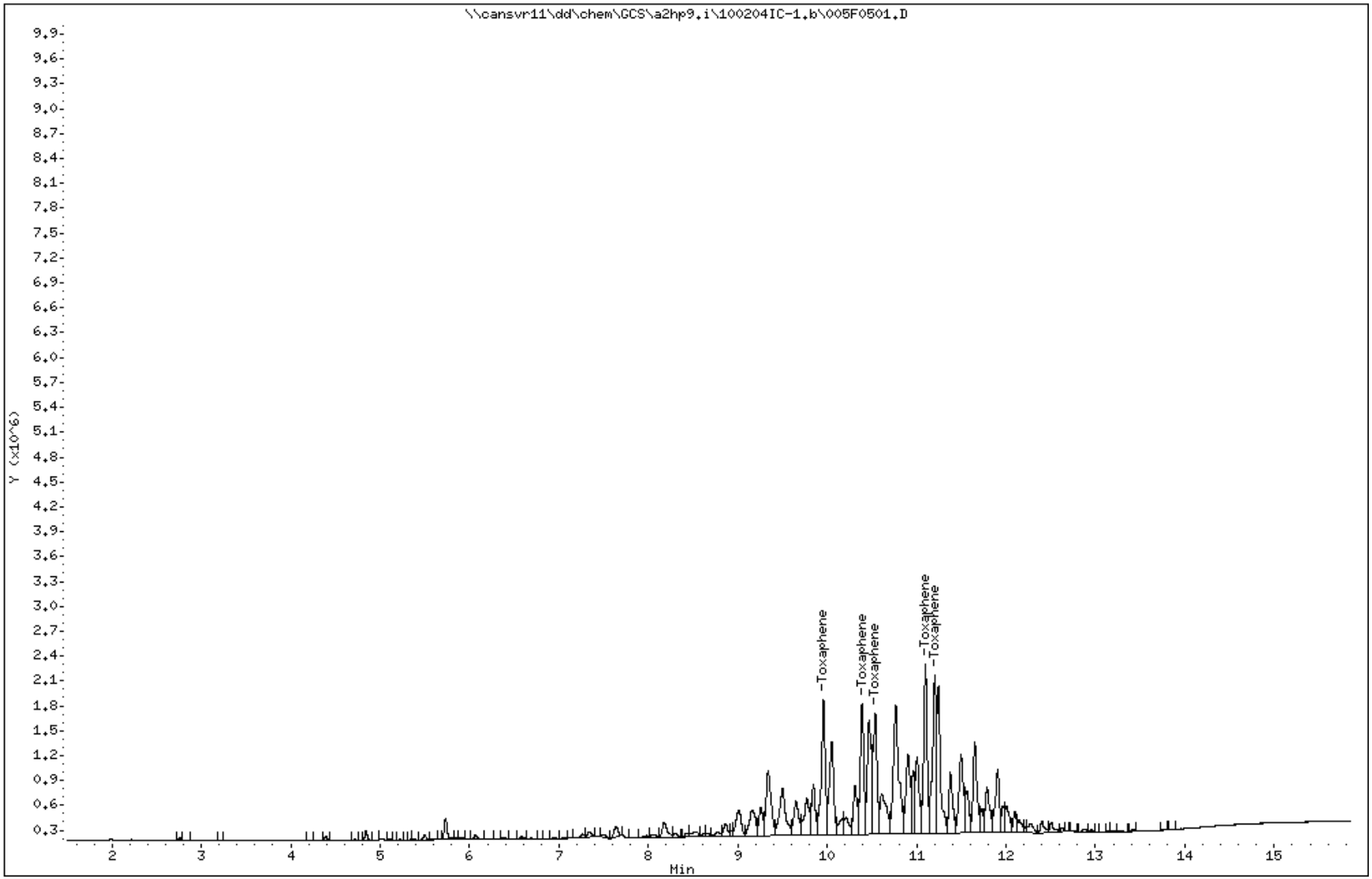
Instrument: a2hp9.i

Sample Info: TOX3 G268,,1,3

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 04-FEB-2010 11:07
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100204IC-1.b/005F0501.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.958	5093444	1.072	1.072

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\006F0601.D
Lab Smp Id: TOX4 G268
Inj Date : 04-FEB-2010 11:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX4 G268,,1,4
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m
Meth Date : 05-Feb-2010 15:22 vandorenc Quant Type: ESTD
Cal Date : 04-FEB-2010 11:41 Cal File: 006F0601.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.963	9.963	0.000	3287607	2.00000	2.115	80.00- 120.00	100.00
10.394	10.394	0.000	3275493	2.00000	2.168	114.04- 154.04	99.63
10.542	10.542	0.000	2939014	2.00000	2.117	115.64- 155.64	89.40
11.103	11.103	0.000	4137222	2.00000	2.089	52.78- 92.78	125.84
11.208	11.208	0.000	3992306	2.00000	2.183	69.36- 109.36	121.44
		Average of Peak Amounts =			2.13440		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\006F0601.D

Page 1

Date : 04-FEB-2010 11:41

Client ID:

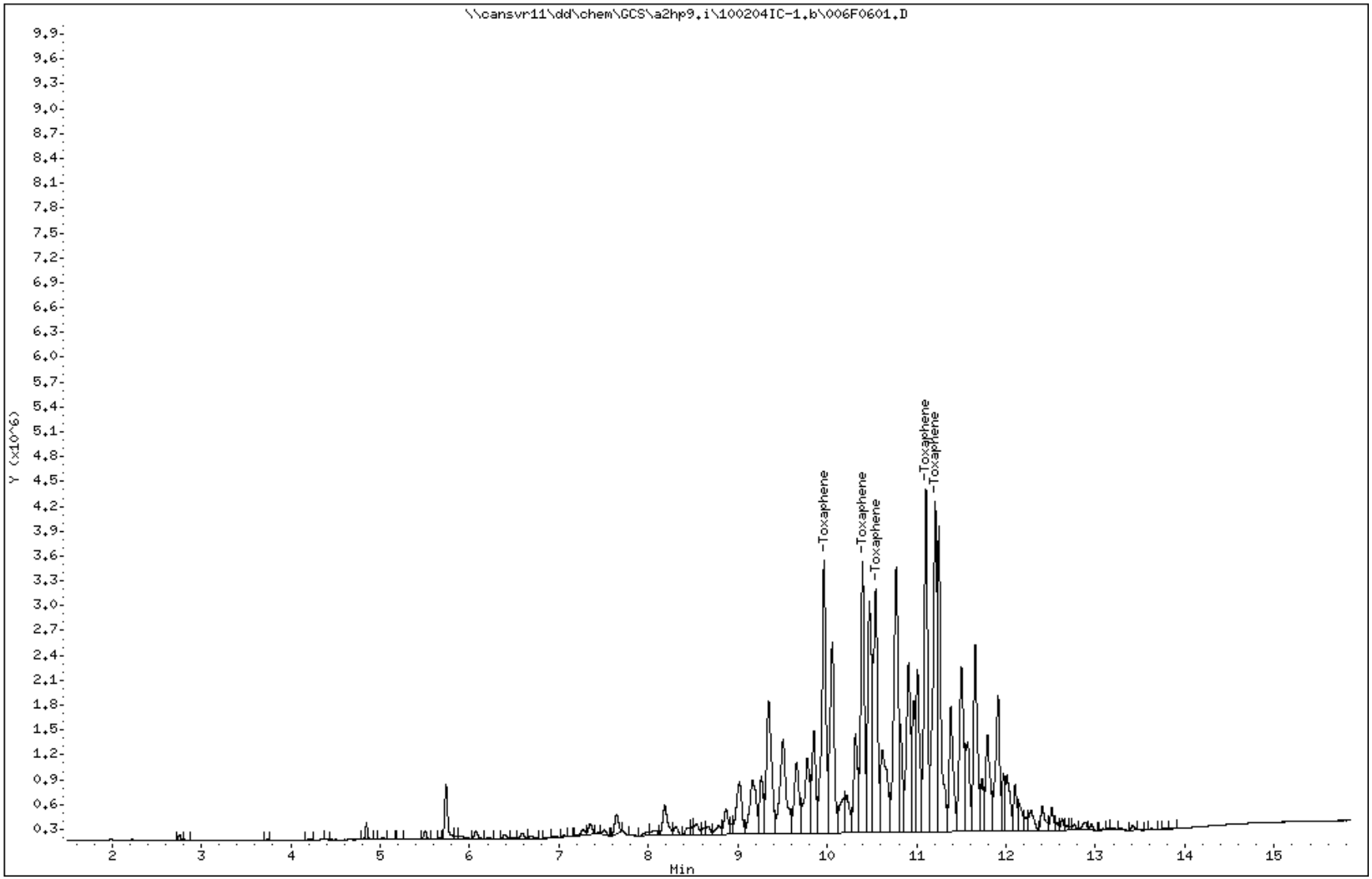
Instrument: a2hp9.i

Sample Info: TOX4 G268,,1,4

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 04-FEB-2010 11:41
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100204IC-1.b/006F0601.D
Lab Sample ID: TOX4 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.964	10440746	2.115	2.115

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\014F1401.D
Lab Smp Id: TOX5 G268
Inj Date : 04-FEB-2010 15:06
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX5 G268,,1,5
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m
Meth Date : 05-Feb-2010 15:22 vandorenc Quant Type: ESTD
Cal Date : 04-FEB-2010 15:06 Cal File: 014F1401.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-toxaph.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.955	9.955	0.000	10163106	5.00000	6.159	80.00- 120.00	100.00(M)
10.386	10.386	0.000	10151347	5.00000	6.288	114.04- 154.04	99.88
10.537	10.537	0.000	9111314	5.00000	6.178	115.64- 155.64	89.65
11.097	11.097	0.000	12447615	5.00000	5.979	52.78- 92.78	122.48
11.201	11.201	0.000	12234930	5.00000	6.266	69.36- 109.36	120.39
		Average of Peak Amounts =			6.17400		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\014F1401.D

Page 1

Date : 04-FEB-2010 15:06

Client ID:

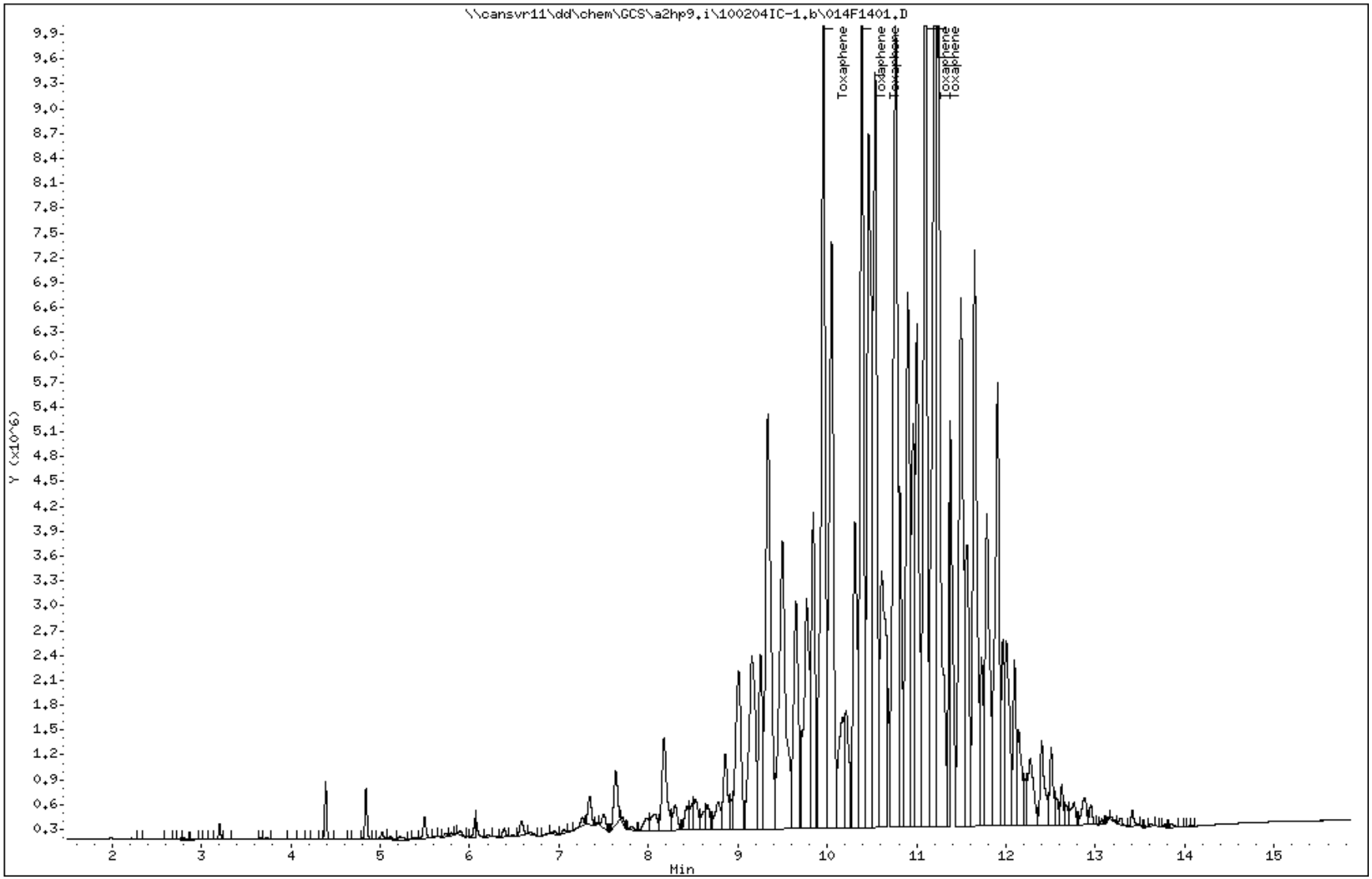
Instrument: a2hp9.i

Sample Info: TOX5 G268,,1,5

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

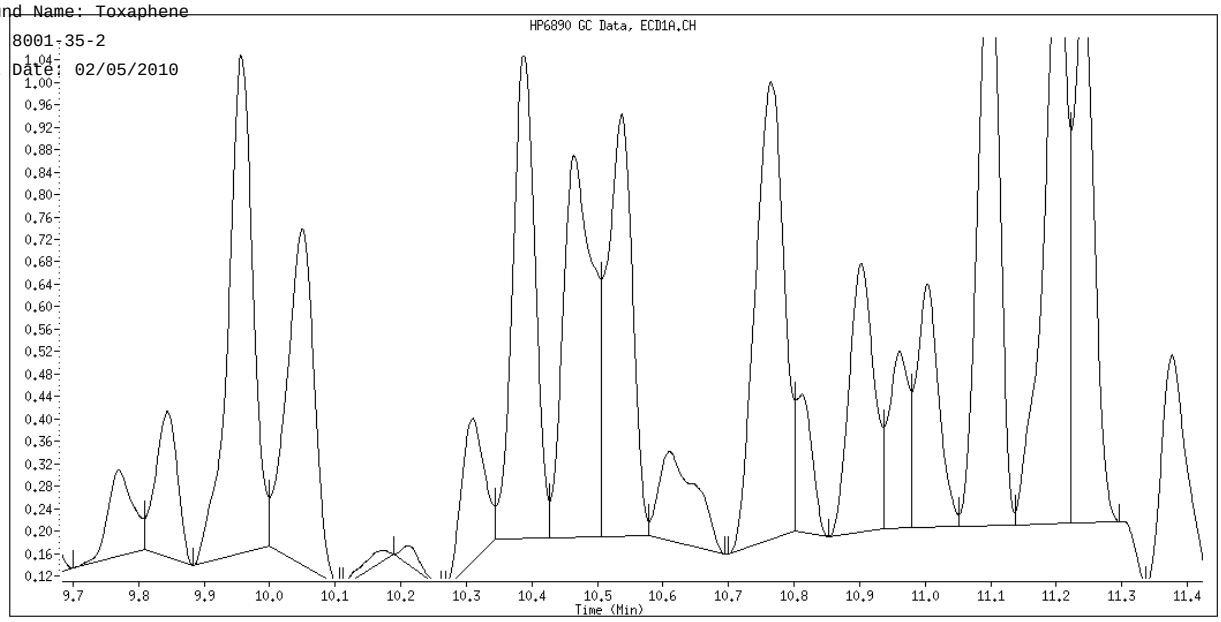


COMPOUNDS and EXP. RT REPORT

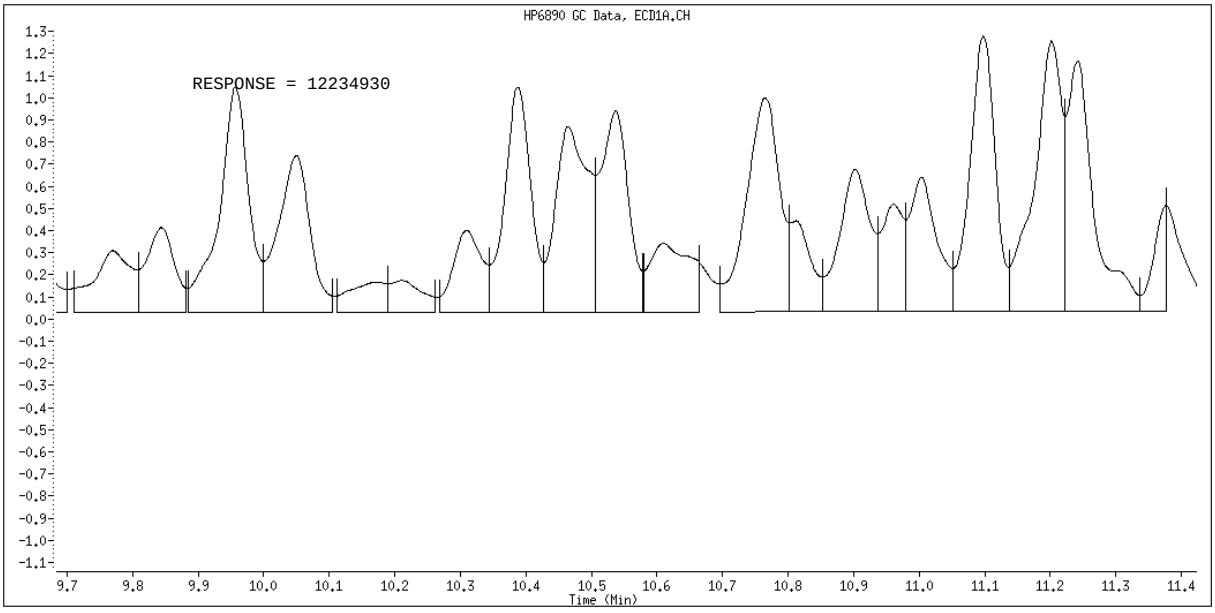
Operator: 093905 Date Acquired: 04-FEB-2010 15:06
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\014F1401.D
Lab Sample ID: TOX5 G268
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.956	32055861	6.159	6.159

Data File Name: 014F1401.D
Inj. Date and Time: 04-FEB-2010 15:06
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 02/05/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\003F0301.D
Lab Smp Id: TOX1 G268
Inj Date : 04-FEB-2010 10:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX1 G268,,1,1
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Feb-2010 08:02 vandorenc Quant Type: ESTD
Cal Date : 04-FEB-2010 10:17 Cal File: 003F0301.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.392	11.392	0.000	224011	0.20000	0.2000	80.00- 120.00	100.00
11.807	11.807	0.000	210777	0.20000	0.2000	114.04- 154.04	94.09
11.923	11.923	0.000	131832	0.20000	0.2000	115.64- 155.64	58.85
12.183	12.183	0.000	97384	0.20000	0.2000	52.78- 92.78	43.47
12.546	12.546	0.000	194359	0.20000	0.2000	69.36- 109.36	86.76
		Average of Peak Amounts =		0.20000			

Data File: \\CANSVR11\DD\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\003F0301.D

Date : 04-FEB-2010 10:17

Client ID:

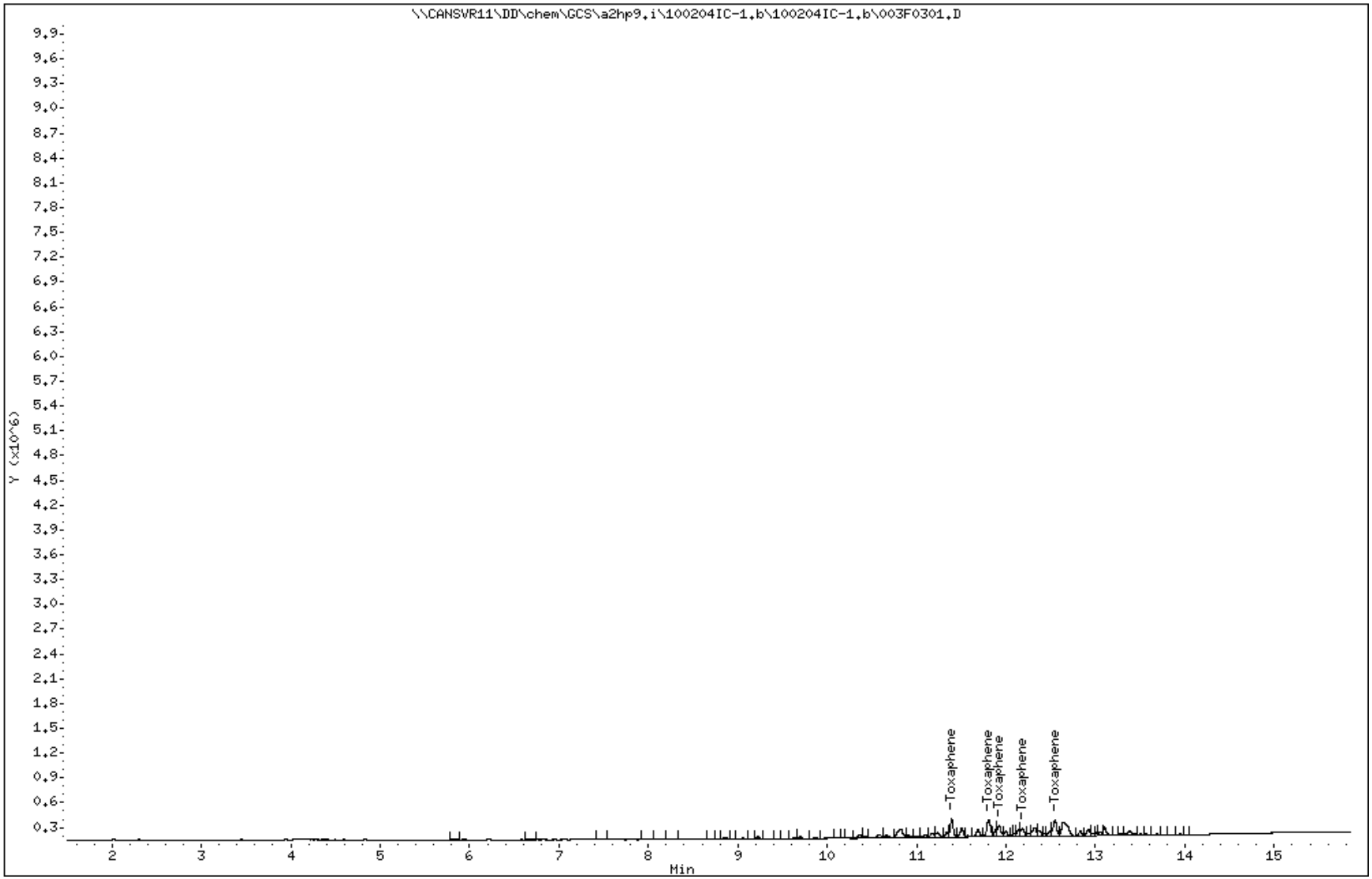
Instrument: a2hp9.i

Sample Info: TOX1 G268,,1,1

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 04-FEB-2010 10:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100204IC-1.b/100204IC-1.b/003F0301.D
Lab Sample ID: TOX1 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.392	557466	0.200	0.200

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\004F0401.D
Lab Smp Id: TOX2 G268
Inj Date : 04-FEB-2010 10:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX2 G268,,1,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Feb-2010 08:03 vandorenc Quant Type: ESTD
Cal Date : 04-FEB-2010 10:42 Cal File: 004F0401.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.392	11.392	0.000	594508	0.50000	0.5149	80.00- 120.00	100.00
11.805	11.805	0.000	566188	0.50000	0.5180	114.04- 154.04	95.24
11.923	11.923	0.000	358931	0.50000	0.5213	115.64- 155.64	60.37
12.183	12.183	0.000	264566	0.50000	0.5208	52.78- 92.78	44.50
12.546	12.546	0.000	518305	0.50000	0.5161	69.36- 109.36	87.18
		Average of Peak Amounts =			0.51822		

Data File: \\CANSVR11\DD\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\004F0401.D

Date : 04-FEB-2010 10:42

Client ID:

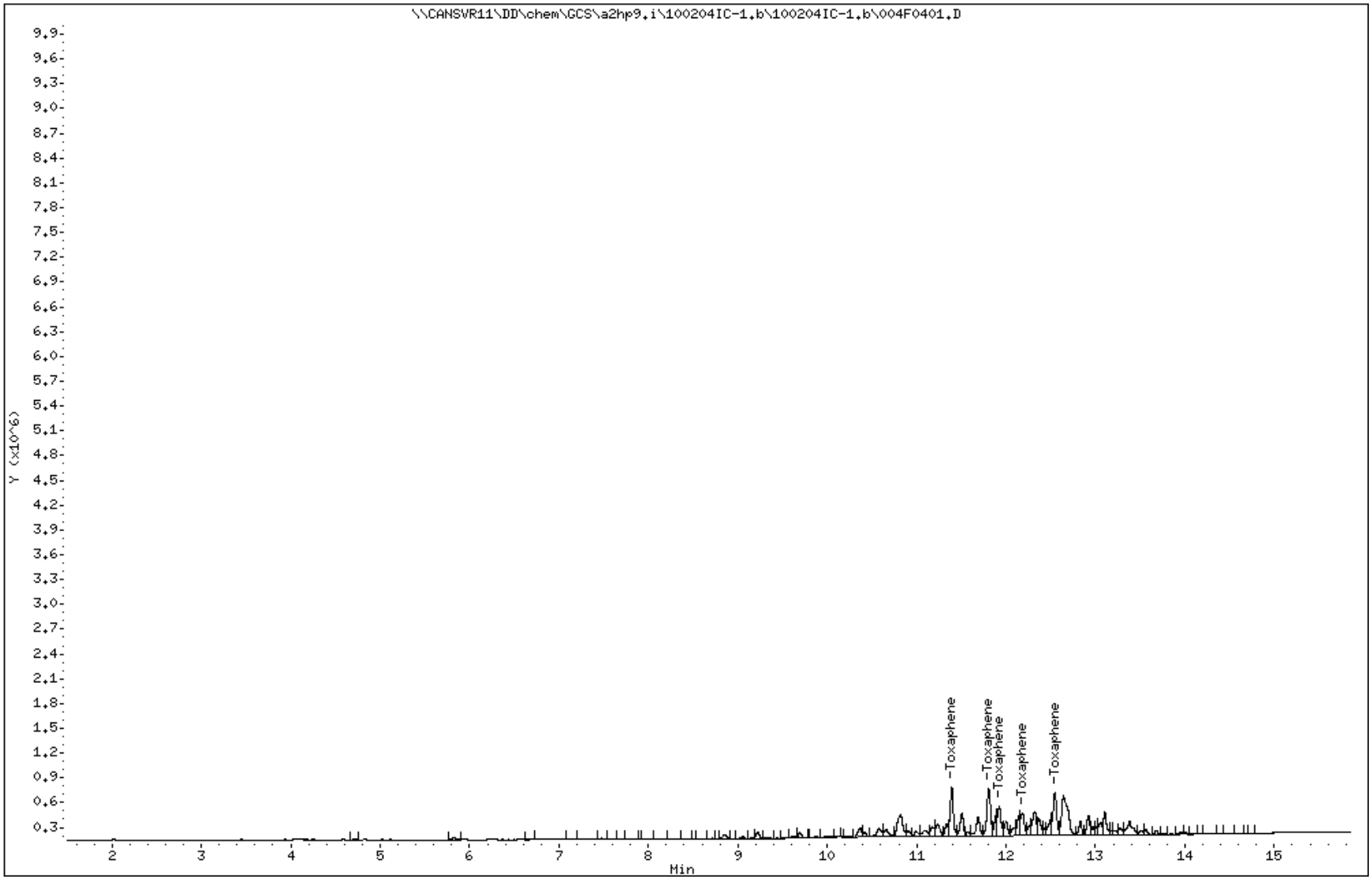
Instrument: a2hp9.i

Sample Info: TOX2 G268,,1,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 04-FEB-2010 10:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100204IC-1.b/100204IC-1.b/004F0401.D
Lab Sample ID: TOX2 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.392	1493943	0.515	0.515

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\005F0501.D
Lab Smp Id: TOX3 G268
Inj Date : 04-FEB-2010 11:07
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,1,3
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Feb-2010 08:03 vandorenc Quant Type: ESTD
Cal Date : 04-FEB-2010 11:07 Cal File: 005F0501.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.391	11.391	0.000	1224888	1.00000	1.040	80.00- 120.00	100.00
11.804	11.804	0.000	1172118	1.00000	1.047	114.04- 154.04	95.69
11.922	11.922	0.000	735260	1.00000	1.044	115.64- 155.64	60.03
12.182	12.182	0.000	546752	1.00000	1.050	52.78- 92.78	44.64
12.546	12.546	0.000	1051805	1.00000	1.031	69.36- 109.36	85.87
		Average of Peak Amounts =			1.04240		

Data File: \\CANSVR11\DD\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\005F0501.D

Page 1

Date : 04-FEB-2010 11:07

Client ID:

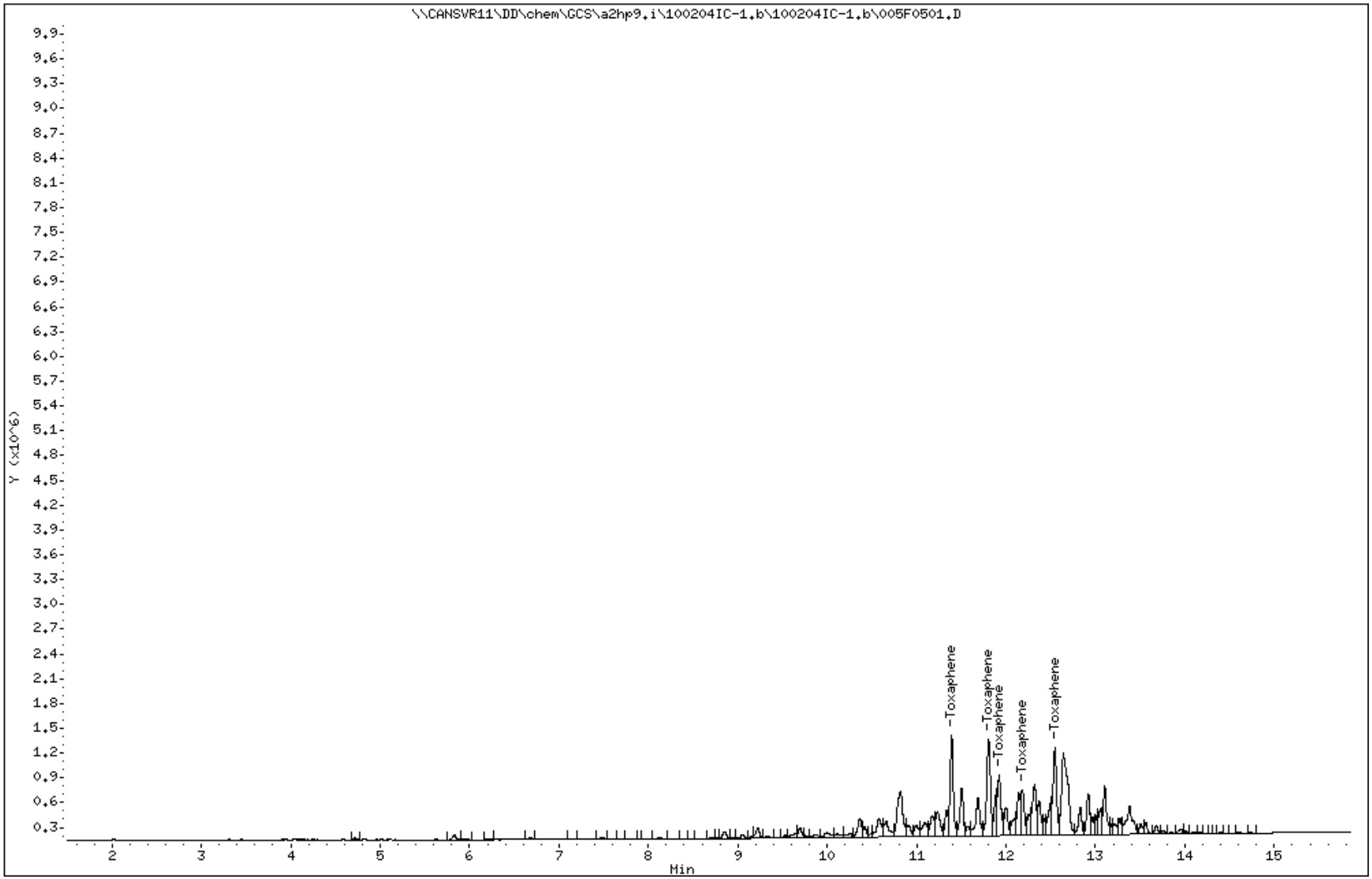
Instrument: a2hp9.i

Sample Info: TOX3 G268,,1,3

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 04-FEB-2010 11:07
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100204IC-1.b/100204IC-1.b/005F0501.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.392	3101994	1.040	1.040

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\006F0601.D
Lab Smp Id: TOX4 G268
Inj Date : 04-FEB-2010 11:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX4 G268,,1,4
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Feb-2010 08:03 vandorenc Quant Type: ESTD
Cal Date : 04-FEB-2010 11:41 Cal File: 006F0601.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.393	11.393	0.000	2512411	2.00000	2.098	80.00- 120.00	100.00
11.804	11.804	0.000	2426443	2.00000	2.123	114.04- 154.04	96.58
11.923	11.923	0.000	1524044	2.00000	2.121	115.64- 155.64	60.66
12.184	12.184	0.000	1126346	2.00000	2.119	52.78- 92.78	44.83
12.547	12.547	0.000	2160374	2.00000	2.087	69.36- 109.36	85.99
		Average of Peak Amounts =			2.10960		

Data File: \\CANSVR11\DD\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\006F0601.D

Page 1

Date : 04-FEB-2010 11:41

Client ID:

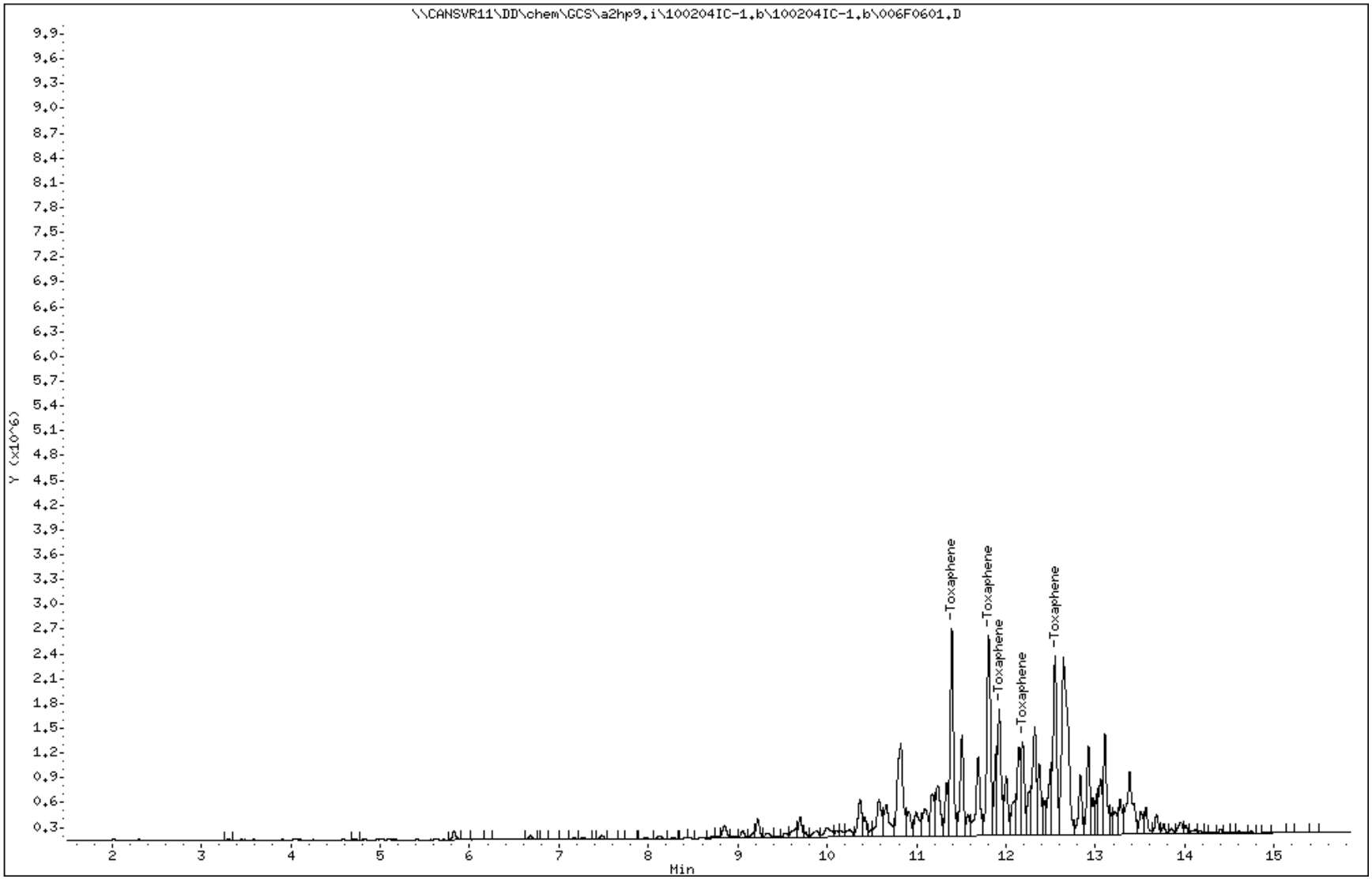
Instrument: a2hp9.i

Sample Info: TOX4 G268,,1,4

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 04-FEB-2010 11:41
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100204IC-1.b/100204IC-1.b/006F0601.D
Lab Sample ID: TOX4 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.394	6385607	2.098	2.098

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\014F1401.D
Lab Smp Id: TOX5 G268
Inj Date : 04-FEB-2010 15:06
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX5 G268,,1,5
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Feb-2010 08:04 vandorenc Quant Type: ESTD
Cal Date : 04-FEB-2010 15:06 Cal File: 014F1401.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-toxaph.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.389	11.389	0.000	7781281	5.00000	6.130	80.00- 120.00	100.00
11.801	11.801	0.000	7515066	5.00000	6.186	114.04- 154.04	96.58
11.920	11.920	0.000	4689744	5.00000	6.151	115.64- 155.64	60.27
12.181	12.181	0.000	3477187	5.00000	6.162	52.78- 92.78	44.69
12.543	12.543	0.000	6677620	5.00000	6.097	69.36- 109.36	85.82
		Average of Peak Amounts =			6.14520		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\014F1401.D

Page 1

Date : 04-FEB-2010 15:06

Client ID:

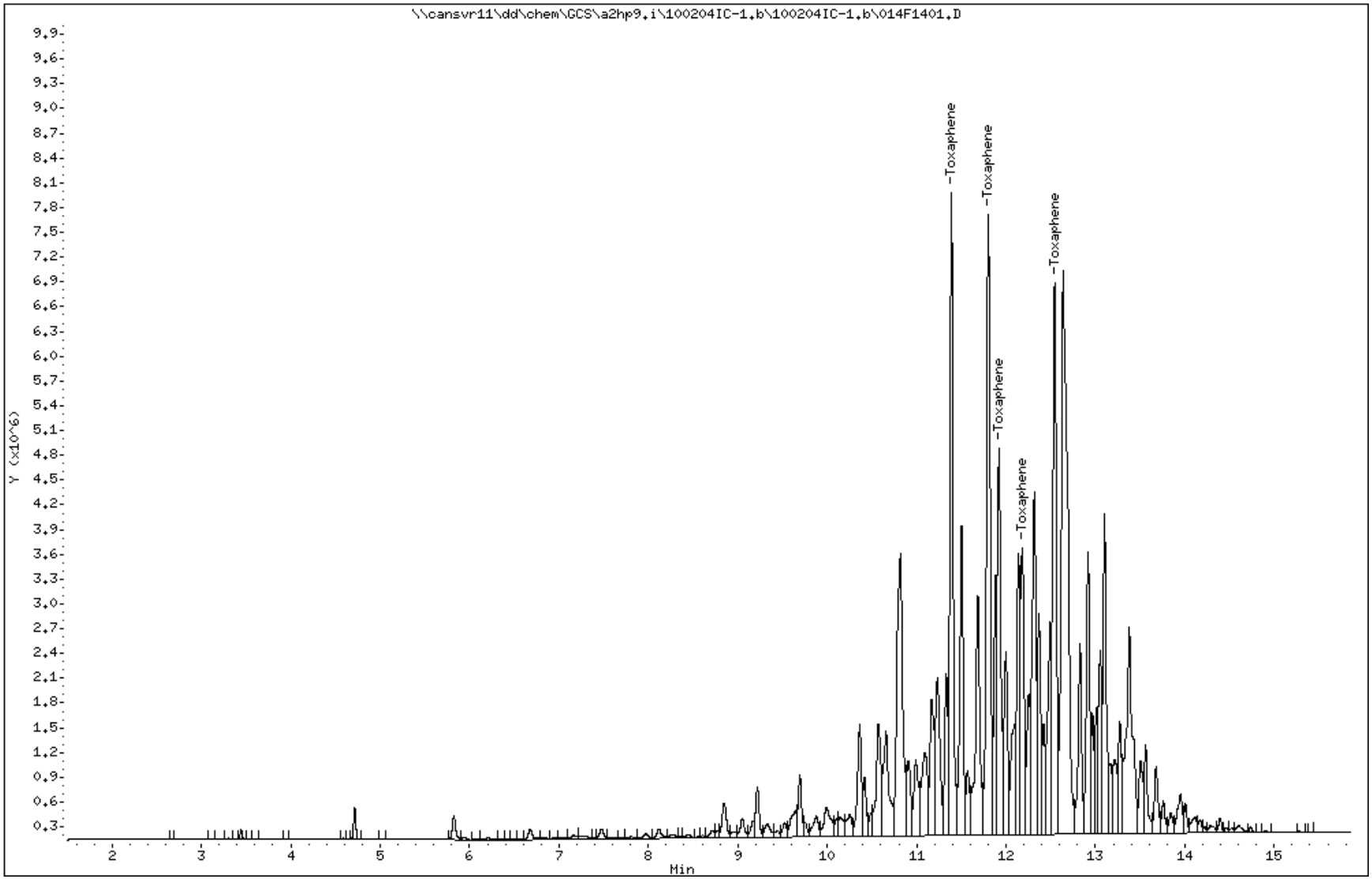
Instrument: a2hp9.i

Sample Info: TOX5 G268,,1,5

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 04-FEB-2010 15:06
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100204IC-1.b/100204IC-1.b/014F1401.D
Lab Sample ID: TOX5 G268
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.389	19621461	6.130	6.130

FORM 8
PESTICIDES ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250453

GC Column: CLP PESTICIDES I ID: 0.53 (mm) Init. Calib. Date(s): 02/04/10 02/22/10

Instrument ID: A2HP9

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		PEM E006	03/02/10	0043		
02		AB3 G252	03/02/10	0106		
03		TOX3	03/02/10	0129		
04		MRL	03/02/10	0216		
05	ATASB-008-51	LV3JM1AE	03/02/10	0323		
06	ATASB-008-51	LV3JM1A8	03/02/10	0346		
07	ATASB-008-51	LV3JM1A9	03/02/10	0409		
08	LV4JRBLK	LV4JR1AA	03/02/10	0432		
09	LV4JRCHK	LV4JR1AC	03/02/10	0455		
10		AB3	03/02/10	0719		
11		MRL	03/02/10	0743		
12		PEM	03/02/10	0920		
13		TOX3	03/02/10	1010		
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 04-Mar-2010 06:37

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Start Cal Date: 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
22-FEB-2010 11:49	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\003F0301.D
04-FEB-2010 12:33	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\008F0801.D
04-FEB-2010 10:17	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\003F0301.D
Cal Level: 2 , Cal Amount: 0.01000		
22-FEB-2010 12:13	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\004F0401.D
04-FEB-2010 12:59	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\009F0901.D
04-FEB-2010 10:42	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\004F0401.D
Cal Level: 3 , Cal Amount: 0.02500		
22-FEB-2010 12:38	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\005F0501.D
04-FEB-2010 13:24	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\010F1001.D
04-FEB-2010 11:07	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\005F0501.D
Cal Level: 4 , Cal Amount: 0.05000		
22-FEB-2010 13:03	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\006F0601.D
04-FEB-2010 13:49	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\011F1101.D
04-FEB-2010 11:41	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\006F0601.D
Cal Level: 5 , Cal Amount: 0.10000		
22-FEB-2010 13:27	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\007F0701.D
04-FEB-2010 15:06	16-toxaph	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\014F1401.D

```
|04-FEB-2010 14:15 |15-TECHLOR                                                    |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\012F1201.D                          |
+------------------+-----------------+------------------------------------------+

+------------------+-----------------+------------------------------------------+
| Cal Level: 6 , Cal Amount: 0.20000                                            |
+===============================================================================+
|22-FEB-2010 13:53 |1-AB                                                        |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\008F0801.D                          |
+------------------+-----------------+------------------------------------------+


Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3
+------------------+-----------------+------------------------------------------+
|03-MAR-2010 00:28 |15-TECHLOR                                                    |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\059F5901.D
|03-MAR-2010 00:04 |16-TOXAPH
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\058F5801.D
|03-MAR-2010 00:51 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\060F6001.D
|02-MAR-2010 21:17 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\051F5101.D
|02-MAR-2010 16:50 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\040F4001.D
|02-MAR-2010 01:53 |15-TECHLOR
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\005F0501.D
|02-MAR-2010 01:29 |16-TOXAPH
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\004F0401.D
|02-MAR-2010 01:06 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\003F0301.D
|02-MAR-2010 13:33 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\032F3201.D
|02-MAR-2010 10:10 |16-TOXAPH
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\024F2401.D
|02-MAR-2010 09:45 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\023F2301.D
|02-MAR-2010 07:19 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\017F1701.D
|02-MAR-2010 01:53 |15-TECHLOR
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\005F0501.D
|02-MAR-2010 01:06 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\003F0301.D
|02-MAR-2010 01:29 |16-TOXAPH
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|\\cansvr11\dd\chem\GCS\a2hp9.i\100224-1.b\056F5601.D
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|25-FEB-2010 09:58 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100224-1.b\047F4701.D
|25-FEB-2010 09:34 |16-TOXAPH
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|25-FEB-2010 08:41 |16-TOXAPH
|\\cansvr11\dd\chem\GCS\a2hp9.i\100224-1.b\044F4401.D
|25-FEB-2010 08:18 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100224-1.b\043F4301.D
|25-FEB-2010 05:34 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100224-1.b\036F3601.D
|25-FEB-2010 00:33 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100224-1.b\023F2301.D
|24-FEB-2010 19:30 |16-TOXAPH
|\\cansvr11\dd\chem\GCS\a2hp9.i\100224-1.b\010F1001.D
|24-FEB-2010 19:06 |1-AB
|\\cansvr11\dd\chem\GCS\a2hp9.i\100224-1.b\009F0901.D
|24-FEB-2010 16:46 |1-AB                                                        |
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Report Date: 04-Mar-2010 06:46

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Start Cal Date: 04-FEB-2010 10:17
End Cal Date : 22-FEB-2010 13:53
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
22-FEB-2010 11:49	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\003F0301.D
04-FEB-2010 12:33	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\008F0801.D
04-FEB-2010 10:17	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\003F0301.D
Cal Level: 2 , Cal Amount: 0.01000		
22-FEB-2010 12:13	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\004F0401.D
04-FEB-2010 12:59	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\009F0901.D
04-FEB-2010 10:42	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\004F0401.D
Cal Level: 3 , Cal Amount: 0.02500		
22-FEB-2010 12:38	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\005F0501.D
04-FEB-2010 13:24	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\010F1001.D
04-FEB-2010 11:07	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\005F0501.D
Cal Level: 4 , Cal Amount: 0.05000		
22-FEB-2010 13:03	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\006F0601.D
04-FEB-2010 13:49	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\011F1101.D
04-FEB-2010 11:41	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\006F0601.D
Cal Level: 5 , Cal Amount: 0.10000		
22-FEB-2010 13:27	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\007F0701.D
04-FEB-2010 15:06	16-toxaph	\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\014F1401.D

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|04-FEB-2010 14:15 |15-TECHLOR          |                                                                    |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100204IC-1.b\100204IC-1.b\012F1201.D                                                                    |
+------------------+------------------+--------------------------------------+

+------------------+------------------+--------------------------------------+
| Cal Level: 6 , Cal Amount: 0.20000                                          |
+=============================================================================+
|22-FEB-2010 13:53 |1-AB              |                                      |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100222IC-1.b\100222IC-1.b\008F0801.D          |
+------------------+------------------+--------------------------------------+


Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3
+------------------+------------------+--------------------------------------+
|03-MAR-2010 00:51 |1-AB              |                                      |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\060F6001.D
|03-MAR-2010 00:28 |15-TECHLOR        |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\059F5901.D
|03-MAR-2010 00:04 |16-TOXAPH         |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\058F5801.D
|02-MAR-2010 21:17 |1-AB              |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\051F5101.D
|02-MAR-2010 16:50 |1-AB              |
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|03-MAR-2010 00:28 |15-TECHLOR        |
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|03-MAR-2010 00:04 |16-TOXAPH         |
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|02-MAR-2010 21:17 |1-AB              |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\051F5101.D
|02-MAR-2010 16:50 |1-AB              |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\040F4001.D
|02-MAR-2010 13:33 |1-AB              |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\032F3201.D
|02-MAR-2010 13:33 |1-AB              |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\032F3201.D
|02-MAR-2010 10:10 |16-TOXAPH         |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\024F2401.D
|02-MAR-2010 09:45 |1-AB              |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\023F2301.D
|02-MAR-2010 07:19 |1-AB              |
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|02-MAR-2010 01:53 |15-TECHLOR        |
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|02-MAR-2010 01:29 |16-TOXAPH         |
|\\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\004F0401.D
|02-MAR-2010 01:06 |1-AB              |
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|02-MAR-2010 13:33 |1-AB              |
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|02-MAR-2010 10:10 |16-TOXAPH         |
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|02-MAR-2010 09:45 |1-AB              |
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|25-FEB-2010 13:54 |1-AB              |
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|25-FEB-2010 13:30 |16-TOXAPH         |
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|25-FEB-2010 09:58 |1-AB              |
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|\\cansvr11\dd\chem\GCS\a2hp9.i\100224-1.b\100224-1.b\046F4601.D
|25-FEB-2010 08:41 |16-TOXAPH         |
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Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b/002F0201.D
Report Date: 03/02/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 00:43
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
10.130	10751304	4,4'-DDT
8.4453	74045	4,4'-DDE
9.6403	419244	4,4'-DDD

Percent Degradation of 4,4'-DDT: 4.39

Endrin Degradation

RT	Area	Compound
9.3170	5956451	Endrin
10.503	214527	Endrin aldehyde
11.599	509574	Endrin ketone

Percent Degradation of Endrin: 10.84

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 02-MAR-2010 00:43
Operator : 001754 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 02-Mar-2010 12:21 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.444	4.444	0.000	1692658	0.00840	0.008405		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.858	4.857	0.001	1542217	0.00864	0.008635		
6 beta-BHC						CAS #: 319-85-7	
5.002	5.003	-0.001	372982	0.00835	0.008346		
16 4,4'-DDE						CAS #: 72-55-9	
8.445	8.442	0.003	74045	5e-004	0.0004836		
18 Endrin						CAS #: 72-20-8	
9.316	9.316	0.000	2326265	0.04151	0.04151		
20 4,4'-DDD						CAS #: 72-54-8	
9.640	9.638	0.002	419244	0.00354	0.003536		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.130	10.130	0.000	10751304	0.09307	0.09307		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.502	10.501	0.001	88900	0.00194	0.001940		

```
   27 Methoxychlor                                CAS #: 72-43-5
11.034  11.036   -0.002        11995203 0.20954   0.2095
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.202  11.206   -0.004          123551 0.00105  0.001049
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.598	11.600	-0.002	228109	0.00346	0.003457		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\002F0201.D

Date : 02-MAR-2010 00:43

Client ID:

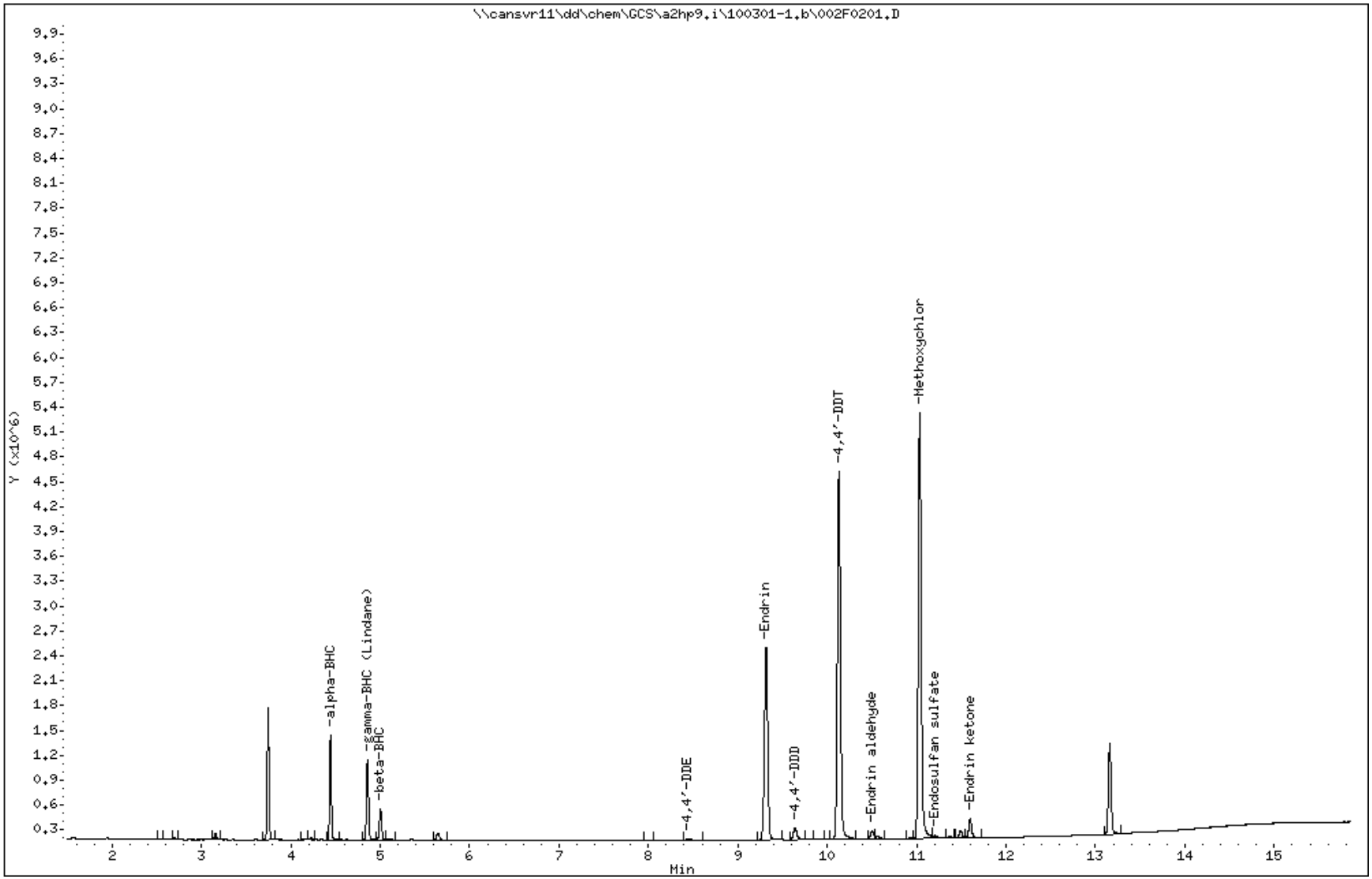
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 00:43
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.444	1692658	0.008	0.008
5) gamma-BHC (Lindane)	4.859	1542217	0.009	0.009
6) beta-BHC	5.003	651478	0.008	0.008
16) 4,4'-DDE	8.445	74045	0.000	0.000
18) Endrin	9.317	5956451	0.042	0.042
20) 4,4'-DDD	9.640	419244	0.004	0.004
22) Endosulfan II	NOT DETECTED Expected RT = 9.745			
23) 4,4'-DDT	10.130	10751304	0.093	0.093
25) Endrin aldehyde	10.503	214527	0.002	0.002
27) Methoxychlor	11.034	11995203	0.210	0.210
28) Endosulfan sulfate	11.203	123551	0.001	0.001
29) Endrin ketone	11.599	509574	0.003	0.003

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\003F0301.D Page 1
Report Date: 02-Mar-2010 09:04

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 01:06
Lab File ID: 003F0301.D Init. Cal. Date(s): 04-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 10:17 13:53
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	121850947	117573480	117573480	0.000	3.51041	15.00000	Averaged
4 alpha-BHC	201389348	194787240	194787240	0.010	3.27828	15.00000	Averaged
5 gamma-BHC (Lindane)	178594181	165572320	165572320	0.010	7.29131	15.00000	Averaged
6 beta-BHC	44689582	41127760	41127760	0.010	7.97014	15.00000	Averaged
7 delta-BHC	180540056	171742840	171742840	0.010	4.87272	15.00000	Averaged
8 Heptachlor	86736850	84572640	84572640	0.010	2.49514	15.00000	Averaged
10 Aldrin	171000216	156956440	156956440	0.010	8.21272	15.00000	Averaged
12 Heptachlor epoxide	48238048	46823200	46823200	0.010	2.93305	15.00000	Averaged
13 gamma-Chlordane	53086388	49732400	49732400	0.010	6.31798	15.00000	Averaged
14 alpha-Chlordane	54993306	52315200	52315200	0.010	4.86988	15.00000	Averaged
15 Endosulfan I	51269407	49235680	49235680	0.010	3.96675	15.00000	Averaged
16 4,4'-DDE	153093223	144566680	144566680	0.010	5.56951	15.00000	Averaged
17 Dieldrin	154624097	148277480	148277480	0.010	4.10455	15.00000	Averaged
18 Endrin	56045893	52779840	52779840	0.010	5.82746	15.00000	Averaged
20 4,4'-DDD	118550292	105193600	105193600	0.010	11.26669	15.00000	Averaged
22 Endosulfan II	54472683	51684040	51684040	0.010	5.11934	15.00000	Averaged
23 4,4'-DDT	115513445	107320920	107320920	0.010	7.09227	15.00000	Averaged
25 Endrin aldehyde	45825835	40333600	40333600	0.010	11.98502	15.00000	Averaged
27 Methoxychlor	57245897	52351160	52351160	0.010	8.55037	15.00000	Averaged
28 Endosulfan sulfate	117724932	112896840	112896840	0.010	4.10116	15.00000	Averaged
29 Endrin ketone	65981528	63631800	63631800	0.010	3.56119	15.00000	Averaged
$ 30 Decachlorobiphenyl	62427750	56433160	56433160	0.010	9.60244	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.02265
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\003F0301.D
Lab Smp Id: AB3 G252
Inj Date : 02-MAR-2010 01:06
Operator : 001754   Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 02-Mar-2010 09:04 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53   Cal File: 008F0801.D
Als bottle: 3   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.746	3.746	0.000	2939337	0.02500	0.02412		
4 alpha-BHC						CAS #: 319-84-6	
4.443	4.443	0.000	4869681	0.02500	0.02418		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.856	4.856	0.000	4139308	0.02500	0.02318		
6 beta-BHC						CAS #: 319-85-7	
5.002	5.002	0.000	1028194	0.02500	0.02301		
7 delta-BHC						CAS #: 319-86-8	
5.243	5.243	0.000	4293571	0.02500	0.02378		
	Sum of Peak Amounts =				0.02378		
8 Heptachlor						CAS #: 76-44-8	
5.558	5.558	0.000	2114316	0.02500	0.02438		
10 Aldrin						CAS #: 309-00-2	
6.073	6.073	0.000	3923911	0.02500	0.02295		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.482	7.482	0.000	1170580	0.02500	0.02427		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.789	7.789	0.000	1243310	0.02500	0.02342		
14 alpha-Chlordane						CAS #: 5103-71-9	

```
8.108    8.108    0.000         1307880 0.02500  0.02378                      (M)
-------------------------------------------------------------------------------
   15 Endosulfan I                               CAS #: 959-98-8
8.368    8.368    0.000         1230892 0.02500  0.02401
-------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
8.442	8.442	0.000	3614167	0.02500	0.02361		
17 Dieldrin						CAS #: 60-57-1	
8.888	8.888	0.000	3706937	0.02500	0.02397		
18 Endrin						CAS #: 72-20-8	
9.315	9.315	0.000	1319496	0.02500	0.02354		
20 4,4'-DDD						CAS #: 72-54-8	
9.638	9.638	0.000	2629840	0.02500	0.02218		
22 Endosulfan II						CAS #: 33213-65-9	
9.742	9.742	0.000	1292101	0.02500	0.02372		
23 4,4'-DDT						CAS #: 50-29-3	
10.130	10.130	0.000	2683023	0.02500	0.02323		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.502	10.502	0.000	1008340	0.02500	0.02200		
27 Methoxychlor						CAS #: 72-43-5	
11.036	11.036	0.000	1308779	0.02500	0.02286		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.205	11.205	0.000	2822421	0.02500	0.02397		
29 Endrin ketone						CAS #: 53494-70-5	
11.598	11.598	0.000	1590795	0.02500	0.02411		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.160	13.160	0.000	1410829	0.02500	0.02260		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\003F0301.D

Page 1

Date : 02-MAR-2010 01:06

Client ID:

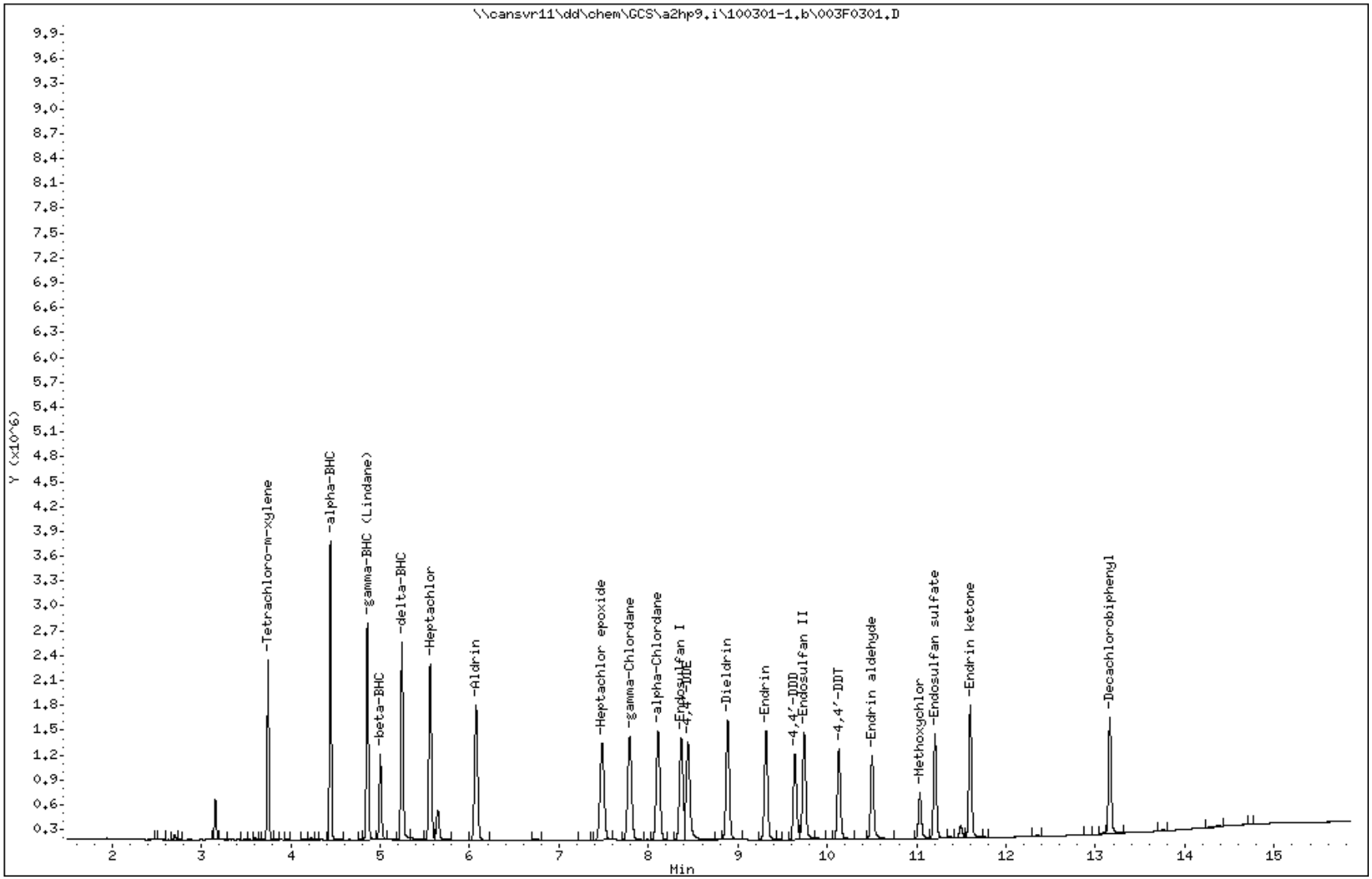
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53

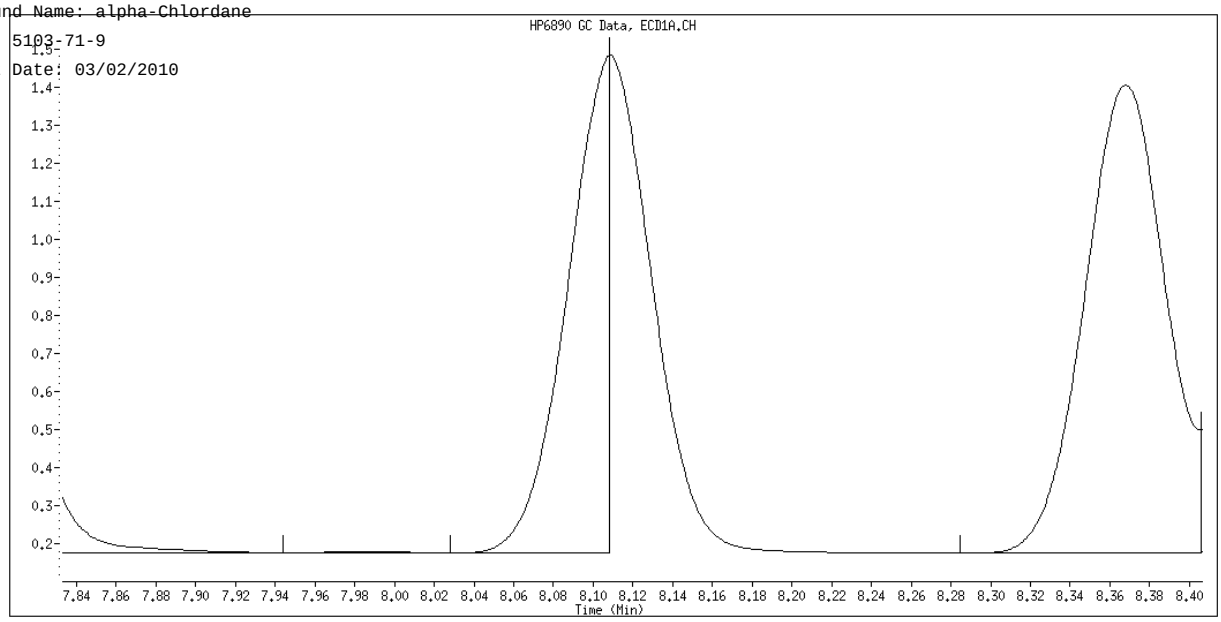


COMPOUNDS and EXP. RT REPORT

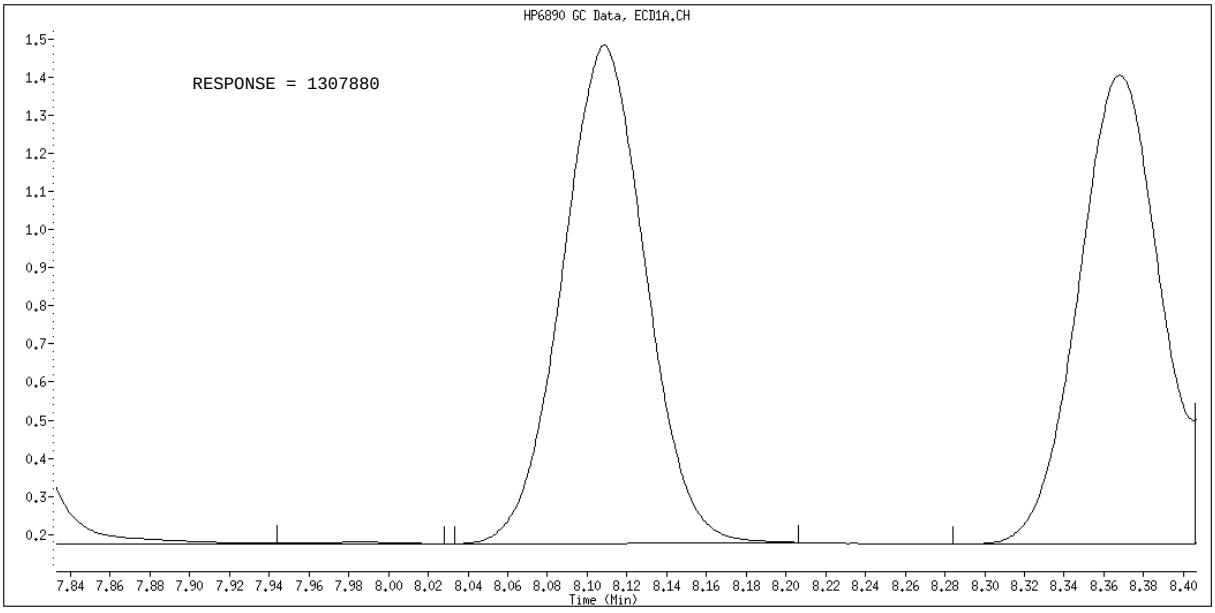
Operator: 001754 Date Acquired: 02-MAR-2010 01:06
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\003F0301.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.746	2939337	0.024	0.024
4) alpha-BHC	4.443	4869681	0.024	0.024
5) gamma-BHC (Lindane)	4.856	4139308	0.023	0.023
6) beta-BHC	5.002	1776594	0.023	0.023
7) delta-BHC	5.243	4293571	0.024	0.024
8) Heptachlor	5.559	4310994	0.024	0.024
10) Aldrin	6.073	3923911	0.023	0.023
12) Heptachlor epoxide	7.482	3740610	0.024	0.024
13) gamma-Chlordane	7.790	3856393	0.023	0.023
14) alpha-Chlordane	8.108	3801569	0.024	0.024
15) Endosulfan I	8.368	3473212	0.024	0.024
16) 4,4'-DDE	8.442	3614167	0.024	0.024
17) Dieldrin	8.888	3706937	0.024	0.024
18) Endrin	9.316	3348223	0.024	0.024
20) 4,4'-DDD	9.638	2629840	0.022	0.022
22) Endosulfan II	9.742	3310310	0.024	0.024
23) 4,4'-DDT	10.131	2683023	0.023	0.023
25) Endrin aldehyde	10.502	2487634	0.022	0.022
27) Methoxychlor	11.036	1308779	0.023	0.023
28) Endosulfan sulfate	11.206	2822421	0.024	0.024
29) Endrin ketone	11.599	3446698	0.024	0.024
30) Decachlorobiphenyl	13.161	2996296	0.023	0.023

Data File Name: 003F0301.D
Inj. Date and Time: 02-MAR-2010 01:06
Instrument ID: a2hp9.i
Client ID:
Compound Name: alpha-Chlordane
CAS #: 5103-71-9
Report Date: 03/02/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 01:29
Lab File ID: 004F0401.D Init. Cal. Date(s): 04-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 10:17 13:53
Lab Sample ID: TOX3 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
24 Toxaphene(1)	1650088	1658395	1658395	0.010	-0.50344	15.00000	Averaged
(2)	1614519	1628962	1628962	0.010	-0.89458	15.00000	Averaged
(3)	1474880	1511182	1511182	0.010	-2.46136	15.00000	Averaged
(4)	2081947	2168010	2168010	0.010	-4.13376	15.00000	Averaged
(5)	1952709	1976254	1976254	0.010	-1.20577	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.83978
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\004F0401.D
Lab Smp Id: TOX3
Inj Date : 02-MAR-2010 01:29
Operator : 001754 Inst ID: a2hp9.i
Smp Info : TOX3,,2
Misc Info : 16-TOXAPH.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 02-Mar-2010 09:02 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
24 Toxaphene						CAS #: 8001-35-2		
9.865	9.865	0.000	1658395	1.00000	1.005	80.00- 120.00		100.00
10.300	10.300	0.000	1628962	1.00000	1.009	114.04- 154.04		98.23
10.449	10.449	0.000	1511182	1.00000	1.025	115.64- 155.64		91.12
11.013	11.013	0.000	2168010	1.00000	1.041	52.78- 92.78		130.73
11.117	11.117	0.000	1976254	1.00000	1.012	69.36- 109.36		119.17
		Average of Peak Amounts =			1.01840			

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\004F0401.D

Date : 02-MAR-2010 01:29

Client ID:

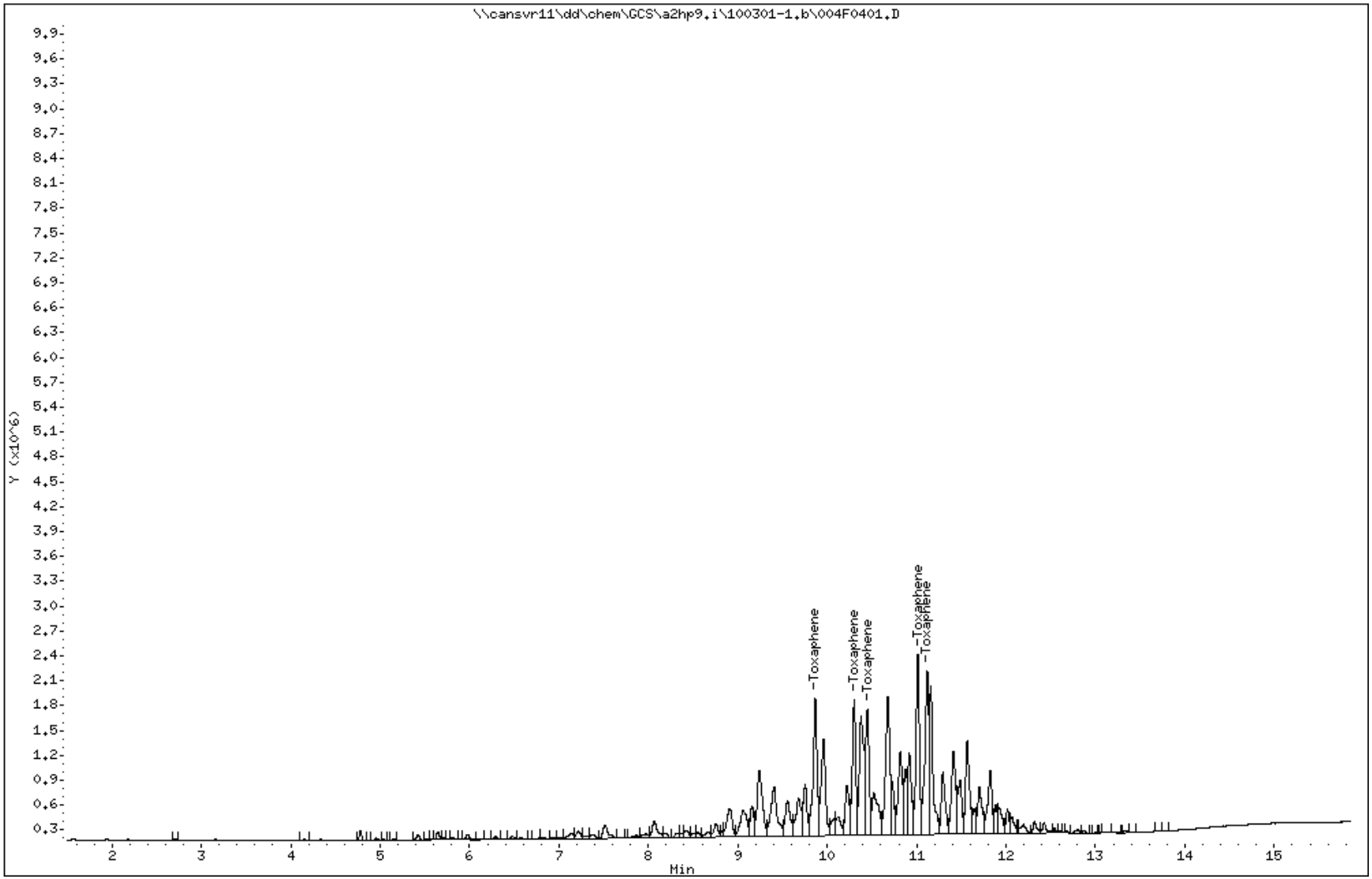
Instrument: a2hp9.i

Sample Info: TOX3,,2

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 01:29
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/004F0401.D
Lab Sample ID: TOX3
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.866	5193623	1.005	1.005

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 001754
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004256	85.13	70-130
5 gamma-BHC (Lindane	0.005000	0.004390	87.81	70-130
6 beta-BHC	0.005000	0.004665	93.31	70-130
7 delta-BHC	0.005000	0.004057	81.14	70-130
8 Heptachlor	0.005000	0.004526	90.53	70-130
10 Aldrin	0.005000	0.004546	90.93	70-130
12 Heptachlor epoxide	0.005000	0.004626	92.53	70-130
13 gamma-Chlordane	0.005000	0.004420	88.41	70-130
14 alpha-Chlordane	0.005000	0.004458	89.17	70-130
15 Endosulfan I	0.005000	0.004600	92.01	70-130
16 4,4'-DDE	0.005000	0.004336	86.72	70-130
17 Dieldrin	0.005000	0.004360	87.21	70-130
18 Endrin	0.005000	0.004269	85.38	70-130
20 4,4'-DDD	0.005000	0.003862	77.24	70-130
22 Endosulfan II	0.005000	0.004456	89.11	70-130
23 4,4'-DDT	0.005000	0.004161	83.22	70-130
25 Endrin aldehyde	0.005000	0.004394	87.88	70-130
27 Methoxychlor	0.005000	0.004354	87.08	70-130
28 Endosulfan sulfate	0.005000	0.004672	93.45	70-130
29 Endrin ketone	0.005000	0.004528	90.57	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\006F0601.D
Lab Smp Id: MRL
Inj Date : 02-MAR-2010 02:16
Operator : 001754   Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 02-Mar-2010 09:04 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53   Cal File: 008F0801.D
Als bottle: 6   QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: mrl.sub
Target Version: 4.14   Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.443	4.443	0.000	857208	0.00426	0.004256		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.856	4.856	0.000	784114	0.00439	0.004390		
6 beta-BHC						CAS #: 319-85-7	
5.001	5.002	-0.001	208489	0.00467	0.004665		
7 delta-BHC						CAS #: 319-86-8	
5.243	5.243	0.000	732412	0.00406	0.004057		
		Sum of Peak Concentrations = 0.004057					
8 Heptachlor						CAS #: 76-44-8	
5.559	5.558	0.001	392617	0.00453	0.004526		
10 Aldrin						CAS #: 309-00-2	

```
6.072    6.073   -0.001          777418 0.00455  0.004546
--------------------------------------------------------------------------------
   12 Heptachlor epoxide                          CAS #: 1024-57-3
7.480    7.482   -0.002          223164 0.00463  0.004626
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
7.787	7.789	-0.002	234666	0.00442	0.004420		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.107	8.108	-0.001	245182	0.00446	0.004458		
15 Endosulfan I					CAS #: 959-98-8		
8.365	8.368	-0.003	235867	0.00460	0.004600		
16 4,4'-DDE					CAS #: 72-55-9		
8.442	8.442	0.000	663803	0.00434	0.004336		
17 Dieldrin					CAS #: 60-57-1		
8.886	8.888	-0.002	674227	0.00436	0.004360		
18 Endrin					CAS #: 72-20-8		
9.314	9.315	-0.001	239261	0.00427	0.004269		
20 4,4'-DDD					CAS #: 72-54-8		
9.639	9.638	0.001	457847	0.00386	0.003862		
22 Endosulfan II					CAS #: 33213-65-9		
9.742	9.742	0.000	242711	0.00446	0.004456		
23 4,4'-DDT					CAS #: 50-29-3		
10.130	10.130	0.000	480642	0.00416	0.004161		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.503	10.502	0.001	201361	0.00439	0.004394		
27 Methoxychlor					CAS #: 72-43-5		
11.038	11.036	0.002	249262	0.00435	0.004354		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.206	11.205	0.001	550048	0.00467	0.004672		
29 Endrin ketone					CAS #: 53494-70-5		
11.600	11.598	0.002	298796	0.00453	0.004528		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\006F0601.D

Date : 02-MAR-2010 02:16

Client ID:

Instrument: a2hp9.i

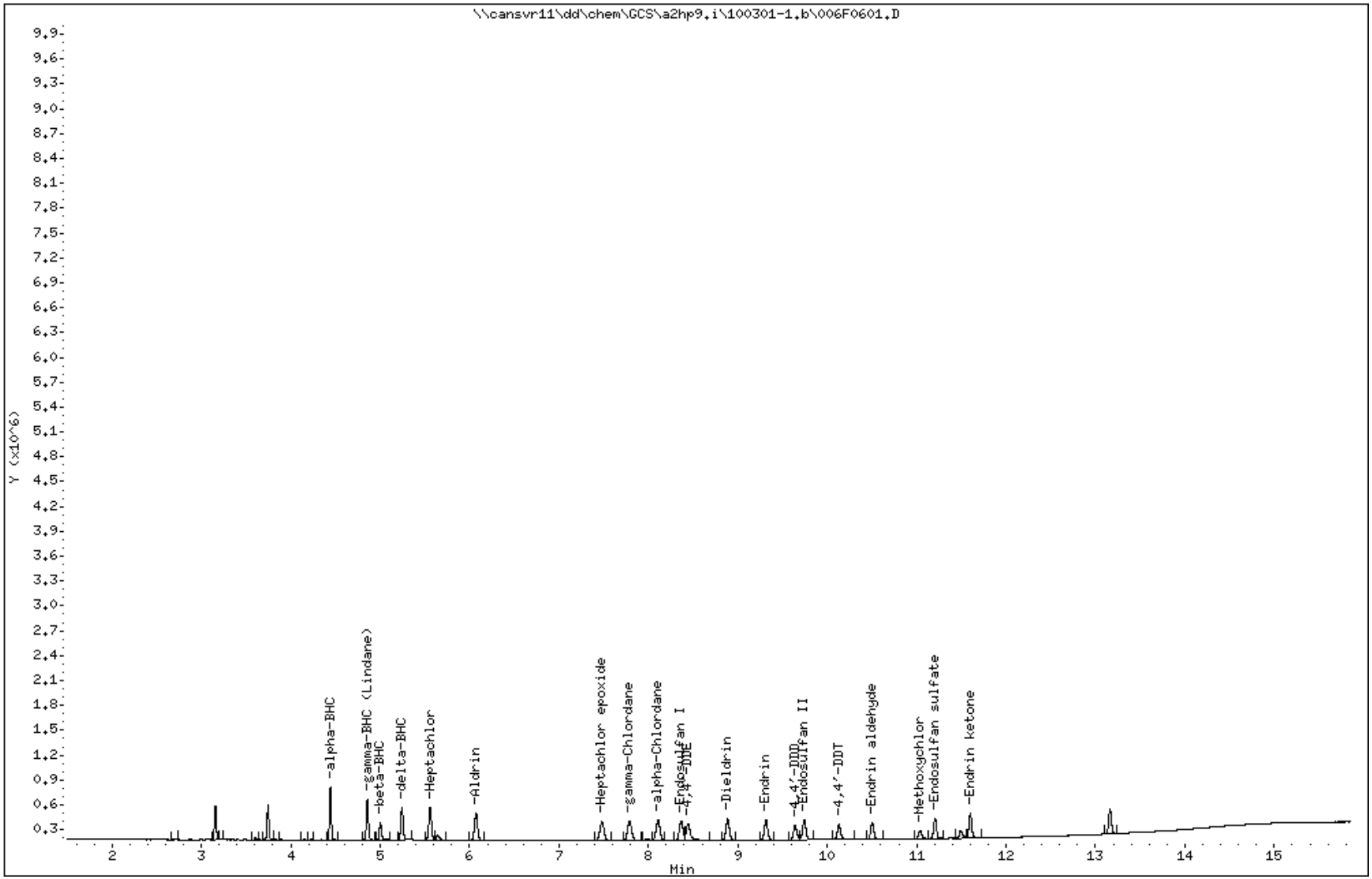
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53



Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\017F1701.D Page 1
Report Date: 02-Mar-2010 12:18

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 07:19
Lab File ID: 017F1701.D Init. Cal. Date(s): 04-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 10:17 13:53
Lab Sample ID: AB3 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	121850947	121299400	121299400	0.000	0.45264	15.00000	Averaged
4 alpha-BHC	201389348	203930200	203930200	0.010	-1.26166	15.00000	Averaged
5 gamma-BHC (Lindane)	178594181	172934920	172934920	0.010	3.16878	15.00000	Averaged
6 beta-BHC	44689582	43864920	43864920	0.010	1.84531	15.00000	Averaged
7 delta-BHC	180540056	182767920	182767920	0.010	-1.23400	15.00000	Averaged
8 Heptachlor	86736850	90868600	90868600	0.010	-4.76355	15.00000	Averaged
10 Aldrin	171000216	160965920	160965920	0.010	5.86800	15.00000	Averaged
12 Heptachlor epoxide	48238048	48864040	48864040	0.010	-1.29771	15.00000	Averaged
13 gamma-Chlordane	53086388	52264920	52264920	0.010	1.54742	15.00000	Averaged
14 alpha-Chlordane	54993306	54361640	54361640	0.010	1.14862	15.00000	Averaged
15 Endosulfan I	51269407	51824480	51824480	0.010	-1.08266	15.00000	Averaged
16 4,4'-DDE	153093223	148539440	148539440	0.010	2.97452	15.00000	Averaged
17 Dieldrin	154624097	153345120	153345120	0.010	0.82715	15.00000	Averaged
18 Endrin	56045893	56957480	56957480	0.010	-1.62650	15.00000	Averaged
20 4,4'-DDD	118550292	113612040	113612040	0.010	4.16553	15.00000	Averaged
22 Endosulfan II	54472683	54797480	54797480	0.010	-0.59626	15.00000	Averaged
23 4,4'-DDT	115513445	118776040	118776040	0.010	-2.82443	15.00000	Averaged
25 Endrin aldehyde	45825835	43179080	43179080	0.010	5.77568	15.00000	Averaged
27 Methoxychlor	57245897	62743120	62743120	0.010	-9.60283	15.00000	Averaged
28 Endosulfan sulfate	117724932	119926080	119926080	0.010	-1.86974	15.00000	Averaged
29 Endrin ketone	65981528	65635040	65635040	0.010	0.52513	15.00000	Averaged
$ 30 Decachlorobiphenyl	62427750	59555080	59555080	0.010	4.60159	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.68453
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\017F1701.D
Lab Smp Id: AB3
Inj Date : 02-MAR-2010 07:19
Operator : 001754   Inst ID: a2hp9.i
Smp Info : AB3,,2
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 02-Mar-2010 12:18 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53   Cal File: 008F0801.D
Als bottle: 17   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.745	3.745	0.000	3032485	0.02500	0.02489		
4 alpha-BHC						CAS #: 319-84-6	
4.444	4.444	0.000	5098255	0.02500	0.02532		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.857	4.857	0.000	4323373	0.02500	0.02421		
6 beta-BHC						CAS #: 319-85-7	
5.002	5.002	0.000	1096623	0.02500	0.02454		
7 delta-BHC						CAS #: 319-86-8	
5.243	5.243	0.000	4569198	0.02500	0.02531		
	Sum of Peak Amounts =				0.02531		
8 Heptachlor						CAS #: 76-44-8	
5.559	5.559	0.000	2271715	0.02500	0.02619		
10 Aldrin						CAS #: 309-00-2	
6.074	6.074	0.000	4024148	0.02500	0.02353		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.484	7.484	0.000	1221601	0.02500	0.02532		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.791	7.791	0.000	1306623	0.02500	0.02461		
14 alpha-Chlordane						CAS #: 5103-71-9	

```
8.109    8.109    0.000         1359041 0.02500  0.02471
-------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
8.369    8.369    0.000         1295612 0.02500  0.02527
-------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.443	8.443	0.000	3713486	0.02500	0.02426		
17 Dieldrin					CAS #: 60-57-1		
8.889	8.889	0.000	3833628	0.02500	0.02479		
18 Endrin					CAS #: 72-20-8		
9.317	9.317	0.000	1423937	0.02500	0.02541		
20 4,4'-DDD					CAS #: 72-54-8		
9.637	9.637	0.000	2840301	0.02500	0.02396		
22 Endosulfan II					CAS #: 33213-65-9		
9.743	9.743	0.000	1369937	0.02500	0.02515		
23 4,4'-DDT					CAS #: 50-29-3		
10.130	10.130	0.000	2969401	0.02500	0.02571		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.502	10.502	0.000	1079477	0.02500	0.02356		
27 Methoxychlor					CAS #: 72-43-5		
11.034	11.034	0.000	1568578	0.02500	0.02740		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.206	11.206	0.000	2998152	0.02500	0.02547		
29 Endrin ketone					CAS #: 53494-70-5		
11.599	11.599	0.000	1640876	0.02500	0.02487		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.159	13.159	0.000	1488877	0.02500	0.02385		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\017F1701.D

Date : 02-MAR-2010 07:19

Client ID:

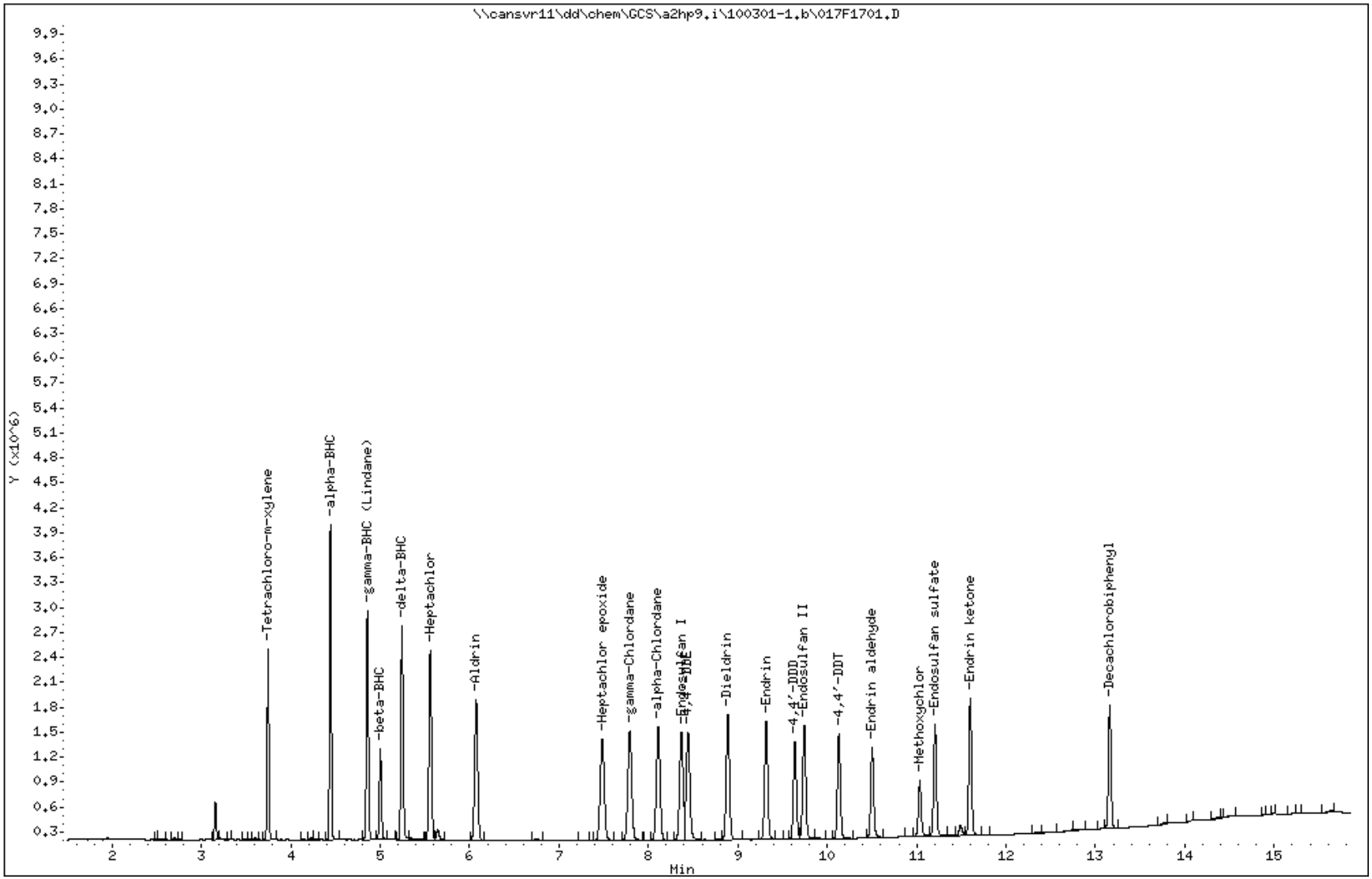
Instrument: a2hp9.i

Sample Info: AB3,,2

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 07:19
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/017F1701.D
Lab Sample ID: AB3
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.746	3032485	0.025	0.025
4) alpha-BHC	4.444	5098255	0.025	0.025
5) gamma-BHC (Lindane)	4.857	4323373	0.024	0.024
6) beta-BHC	5.002	1840600	0.025	0.025
7) delta-BHC	5.243	4569198	0.025	0.025
8) Heptachlor	5.560	4582594	0.026	0.026
10) Aldrin	6.074	4024148	0.024	0.024
12) Heptachlor epoxide	7.484	3879699	0.025	0.025
13) gamma-Chlordane	7.792	3965779	0.025	0.025
14) alpha-Chlordane	8.110	3925531	0.025	0.025
15) Endosulfan I	8.370	3604178	0.025	0.025
16) 4,4'-DDE	8.443	3713486	0.024	0.024
17) Dieldrin	8.889	3833628	0.025	0.025
18) Endrin	9.317	3545288	0.025	0.025
20) 4,4'-DDD	9.637	2840301	0.024	0.024
22) Endosulfan II	9.743	3401141	0.025	0.025
23) 4,4'-DDT	10.131	2969401	0.026	0.026
25) Endrin aldehyde	10.502	2501452	0.024	0.024
27) Methoxychlor	11.035	1568578	0.027	0.027
28) Endosulfan sulfate	11.207	2998152	0.025	0.025
29) Endrin ketone	11.600	3532361	0.025	0.025
30) Decachlorobiphenyl	13.160	3049693	0.024	0.024

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 001754
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004404	88.08	70-130
5 gamma-BHC (Lindane	0.005000	0.004595	91.90	70-130
6 beta-BHC	0.005000	0.005000	100.01	70-130
7 delta-BHC	0.005000	0.004378	87.55	70-130
8 Heptachlor	0.005000	0.004795	95.91	70-130
10 Aldrin	0.005000	0.004650	93.00	70-130
12 Heptachlor epoxide	0.005000	0.004864	97.27	70-130
13 gamma-Chlordane	0.005000	0.004639	92.77	70-130
14 alpha-Chlordane	0.005000	0.004707	94.14	70-130
15 Endosulfan I	0.005000	0.004781	95.61	70-130
16 4,4'-DDE	0.005000	0.004524	90.49	70-130
17 Dieldrin	0.005000	0.004524	90.48	70-130
18 Endrin	0.005000	0.004654	93.08	70-130
20 4,4'-DDD	0.005000	0.004400	87.99	70-130
22 Endosulfan II	0.005000	0.004853	97.07	70-130
23 4,4'-DDT	0.005000	0.004644	92.87	70-130
25 Endrin aldehyde	0.005000	0.004654	93.07	70-130
27 Methoxychlor	0.005000	0.005314	106.28	70-130
28 Endosulfan sulfate	0.005000	0.004917	98.34	70-130
29 Endrin ketone	0.005000	0.004921	98.43	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\018F1801.D
Lab Smp Id: MRL
Inj Date : 02-MAR-2010 07:43
Operator : 001754   Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 02-Mar-2010 12:18 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53   Cal File: 008F0801.D
Als bottle: 18   QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: mrl.sub
Target Version: 4.14   Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.444	4.444	0.000	886925	0.00440	0.004404		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.857	4.857	0.000	820676	0.00460	0.004595		
6 beta-BHC						CAS #: 319-85-7	
5.002	5.002	0.000	223472	0.00500	0.005000		
7 delta-BHC						CAS #: 319-86-8	
5.244	5.243	0.001	790355	0.00438	0.004378		
		Sum of Peak Concentrations = 0.004378					
8 Heptachlor						CAS #: 76-44-8	
5.560	5.559	0.001	415931	0.00480	0.004795		
10 Aldrin						CAS #: 309-00-2	

```
6.074    6.074    0.000          795124 0.00465  0.004650
--------------------------------------------------------------------------------
   12 Heptachlor epoxide                          CAS #: 1024-57-3
7.483    7.484   -0.001          234606 0.00486  0.004864
--------------------------------------------------------------------------------
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
7.791	7.791	0.000	246249	0.00464	0.004639		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.109	8.109	0.000	258845	0.00471	0.004707		
15 Endosulfan I					CAS #: 959-98-8		
8.369	8.369	0.000	245099	0.00478	0.004781		
16 4,4'-DDE					CAS #: 72-55-9		
8.442	8.443	-0.001	692679	0.00452	0.004524		
17 Dieldrin					CAS #: 60-57-1		
8.889	8.889	0.000	699554	0.00452	0.004524		
18 Endrin					CAS #: 72-20-8		
9.317	9.317	0.000	260837	0.00465	0.004654		
20 4,4'-DDD					CAS #: 72-54-8		
9.638	9.637	0.001	521578	0.00440	0.004400		
22 Endosulfan II					CAS #: 33213-65-9		
9.743	9.743	0.000	264370	0.00485	0.004853		
23 4,4'-DDT					CAS #: 50-29-3		
10.131	10.130	0.001	536410	0.00464	0.004644		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.503	10.502	0.001	213252	0.00465	0.004654		
27 Methoxychlor					CAS #: 72-43-5		
11.036	11.034	0.002	304212	0.00531	0.005314		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.206	11.206	0.000	578871	0.00492	0.004917		
29 Endrin ketone					CAS #: 53494-70-5		
11.599	11.599	0.000	324722	0.00492	0.004921		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\018F1801.D

Date : 02-MAR-2010 07:43

Client ID:

Instrument: a2hp9.i

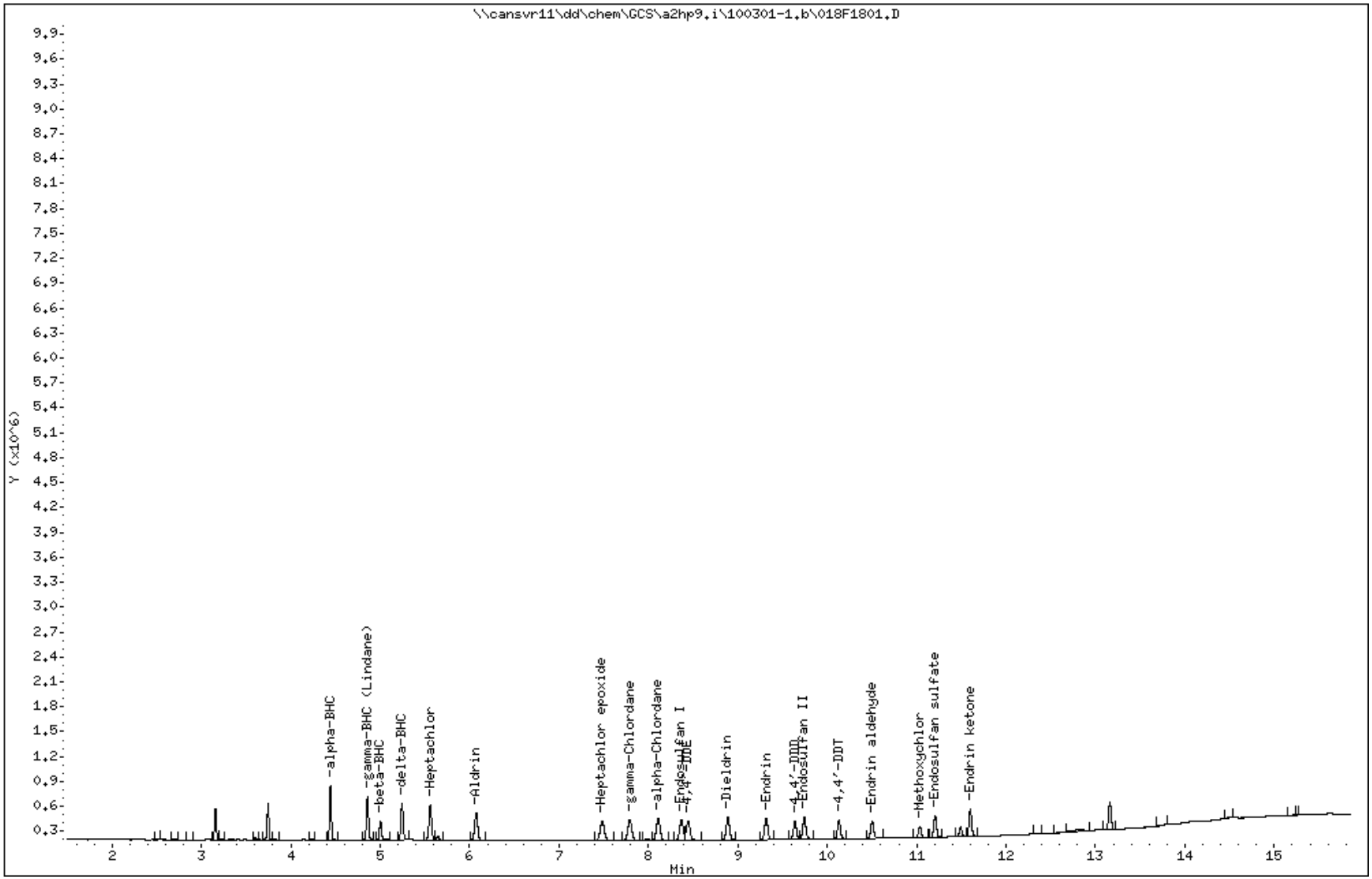
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53



Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b/022F2201.D
Report Date: 03/02/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 09:20
Lab File ID: 022F2201.D Lab Sample ID: PEM
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
10.131	12310442	4,4'-DDT
8.4483	40894	4,4'-DDE
9.6383	288354	4,4'-DDD

Percent Degradation of 4,4'-DDT: 2.60

Endrin Degradation

RT	Area	Compound
9.3175	6539982	Endrin
10.503	182502	Endrin aldehyde
11.601	485116	Endrin ketone

Percent Degradation of Endrin: 9.26

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\022F2201.D
Lab Smp Id: PEM
Inj Date : 02-MAR-2010 09:20
Operator : 001754   Inst ID: a2hp9.i
Smp Info : PEM
Misc Info : 12-PEM.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 02-Mar-2010 12:18 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53   Cal File: 008F0801.D
Als bottle: 22   QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 12-PEM.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.444	4.444	0.000	1825838	0.00907	0.009066		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.858	4.857	0.001	1665456	0.00933	0.009325		
6 beta-BHC						CAS #: 319-85-7	
5.003	5.002	0.001	401208	0.00898	0.008978		
16 4,4'-DDE						CAS #: 72-55-9	
8.448	8.443	0.005	40894	3e-004	0.0002671		
18 Endrin						CAS #: 72-20-8	
9.317	9.317	0.000	2595475	0.04631	0.04631		
20 4,4'-DDD						CAS #: 72-54-8	
9.638	9.637	0.001	288354	0.00243	0.002432		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.130	10.130	0.000	12310442	0.10657	0.1066		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.503	10.502	0.001	79024	0.00172	0.001724		

```
   27 Methoxychlor                                CAS #: 72-43-5
11.034  11.034    0.000        14118210 0.24662   0.2466
-------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.203  11.206   -0.003          108576  9e-004  0.0009223
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.600	11.599	0.001	212164	0.00322	0.003216		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\022F2201.D

Date : 02-MAR-2010 09:20

Client ID:

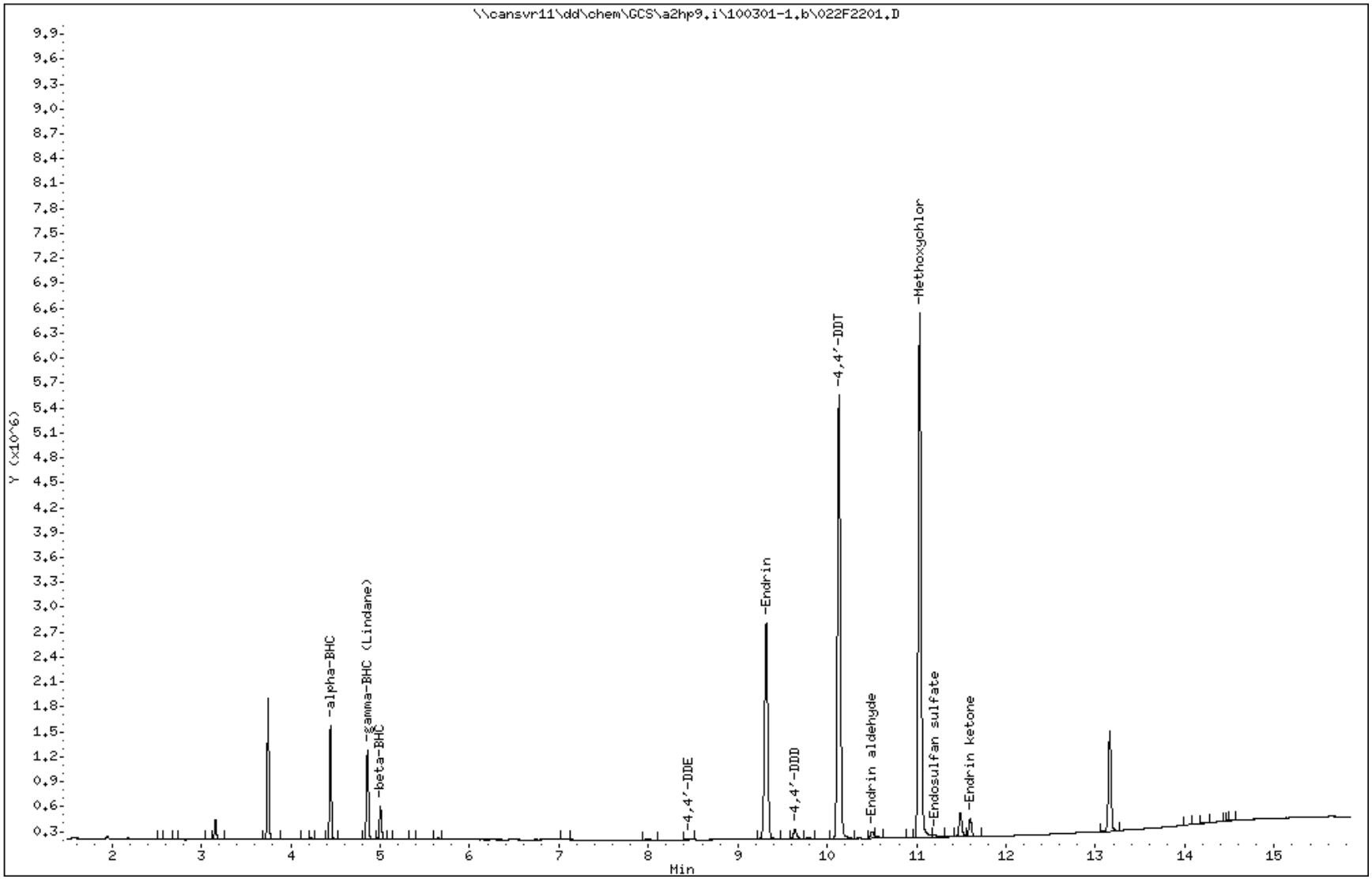
Instrument: a2hp9.i

Sample Info: PEM

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 09:20
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/022F2201.D
Lab Sample ID: PEM
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.444	1825838	0.009	0.009
5) gamma-BHC (Lindane)	4.858	1665456	0.009	0.009
6) beta-BHC	5.003	689585	0.009	0.009
16) 4,4'-DDE	8.448	40894	0.000	0.000
18) Endrin	9.317	6539982	0.046	0.046
20) 4,4'-DDD	9.638	288354	0.002	0.002
22) Endosulfan II	NOT DETECTED Expected RT = 9.743			
23) 4,4'-DDT	10.131	12310442	0.107	0.107
25) Endrin aldehyde	10.503	182502	0.002	0.002
27) Methoxychlor	11.034	14118210	0.247	0.247
28) Endosulfan sulfate	11.203	108576	0.001	0.001
29) Endrin ketone	11.601	485116	0.003	0.003

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 10:10
Lab File ID: 024F2401.D Init. Cal. Date(s): 04-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 10:17 13:53
Lab Sample ID: TOX3 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
24 Toxaphene(1)	1650088	1785536	1785536	0.010	-8.20855	15.00000	Averaged
(2)	1614519	1728167	1728167	0.010	-7.03914	15.00000	Averaged
(3)	1474880	1557928	1557928	0.010	-5.63083	15.00000	Averaged
(4)	2081947	2241851	2241851	0.010	-7.68049	15.00000	Averaged
(5)	1952709	2106548	2106548	0.010	-7.87825	15.00000	Averaged

Average %D / Drift Results.
Calculated Average %D/Drift = 7.28745
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\024F2401.D
Lab Smp Id: TOX3
Inj Date : 02-MAR-2010 10:10
Operator : 001754 Inst ID: a2hp9.i
Smp Info : TOX3,,2
Misc Info : 16-TOXAPH.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 02-Mar-2010 12:21 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
24 Toxaphene						CAS #: 8001-35-2		
9.868	9.868	0.000	1785536	1.00000	1.082	80.00- 120.00		100.00
10.301	10.301	0.000	1728167	1.00000	1.070	114.04- 154.04		96.79
10.449	10.449	0.000	1557928	1.00000	1.056	115.64- 155.64		87.25
11.014	11.014	0.000	2241851	1.00000	1.077	52.78- 92.78		125.56
11.118	11.118	0.000	2106548	1.00000	1.079	69.36- 109.36		117.98
		Average of Peak Amounts =			1.07280			

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\024F2401.D

Page 1

Date : 02-MAR-2010 10:10

Client ID:

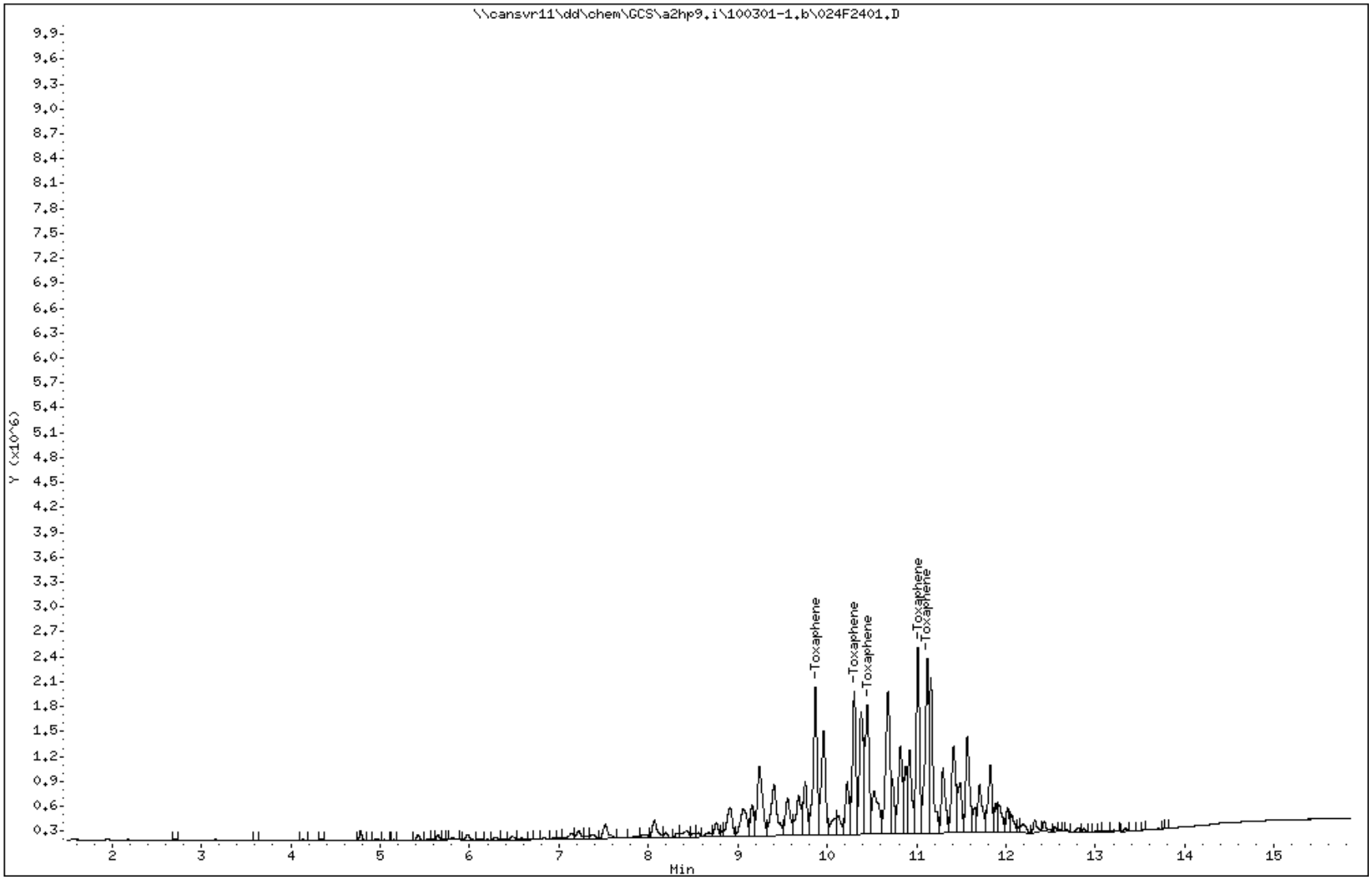
Instrument: a2hp9.i

Sample Info: TOX3,,2

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 10:10
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/024F2401.D
Lab Sample ID: TOX3
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.868	5441444	1.082	1.082

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b/002F0201.D
Report Date: 03/02/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 00:43
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
11.569	5331081	4,4'-DDT
10.113	36490	4,4'-DDE
11.087	242500	4,4'-DDD

Percent Degradation of 4,4'-DDT: 4.97

Endrin Degradation

RT	Area	Compound
10.765	3246957	Endrin
11.677	175791	Endrin aldehyde
12.836	305046	Endrin ketone

Percent Degradation of Endrin: 12.90

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 02-MAR-2010 00:43
Operator : 001754 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 02-Mar-2010 10:26 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
5.233	5.231	0.002	560570	0.00832	0.008317		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.876	5.874	0.002	899628	0.00849	0.008486		
6 beta-BHC					CAS #: 319-85-7		
6.080	6.076	0.004	421565	0.00915	0.009147		
16 4,4'-DDE					CAS #: 72-55-9		
10.112	10.109	0.003	36490	5e-004	0.0004742		
18 Endrin					CAS #: 72-20-8		
10.765	10.765	0.000	1504533	0.04346	0.04346		
21 4,4'-DDD					CAS #: 72-54-8		
11.086	11.086	0.000	242500	0.00416	0.004164		
22 Endosulfan II					CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		
11.569	11.568	0.001	5331081	0.09903	0.09903		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.676	11.676	0.000	64547	0.00238	0.002375		

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   27 Methoxychlor                                CAS #: 72-43-5
12.621  12.621    0.000         6049472 0.22411   0.2241
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

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29 Endrin ketone CAS #: 53494-70-5

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
12.836	12.836	0.000	147825	0.00394	0.003944		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\002F0201.D

Date : 02-MAR-2010 00:43

Client ID:

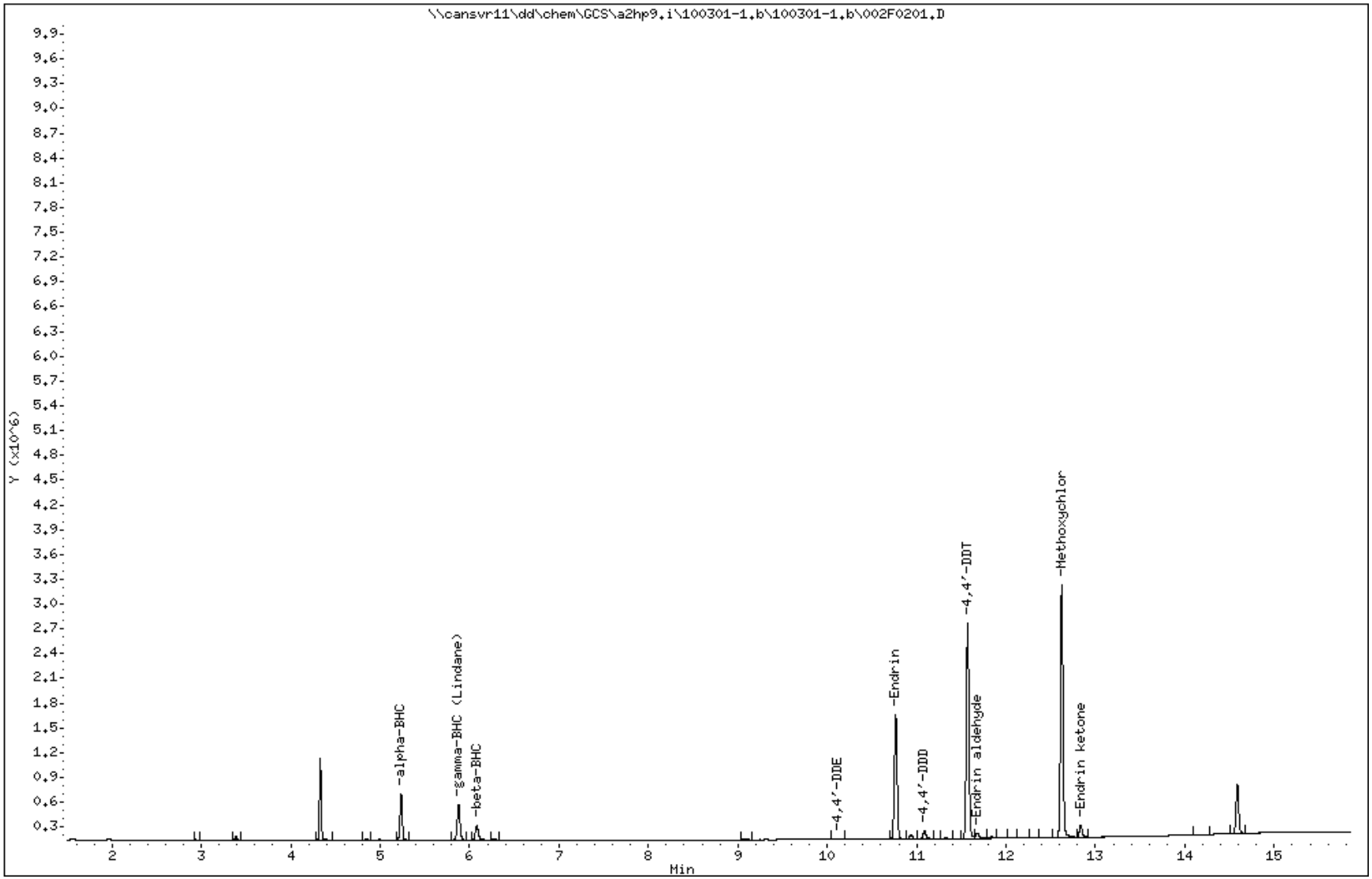
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 00:43
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.234	974187	0.008	0.008
5) gamma-BHC (Lindane)	5.877	899628	0.008	0.008
6) beta-BHC	6.080	421565	0.009	0.009
16) 4,4'-DDE	10.113	36490	0.000	0.000
18) Endrin	10.765	3246957	0.043	0.043
21) 4,4'-DDD	11.087	242500	0.004	0.004
22) Endosulfan II	NOT DETECTED	Expected RT = 11.126		
24) 4,4'-DDT	11.569	5331081	0.099	0.099
25) Endrin aldehyde	11.677	175791	0.002	0.002
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.098		
27) Methoxychlor	12.622	6049472	0.224	0.224
29) Endrin ketone	12.836	305046	0.004	0.004

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 01:06
Lab File ID: 003F0301.D Init. Cal. Date(s): 04-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 10:17 13:53
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	52712496	52334320	52334320	0.000	0.71743	15.00000	Averaged
4 alpha-BHC	67398424	65568480	65568480	0.010	2.71511	15.00000	Averaged
5 gamma-BHC (Lindane)	106019444	99432360	99432360	0.010	6.21309	15.00000	Averaged
6 beta-BHC	46086957	44770560	44770560	0.010	2.85633	15.00000	Averaged
7 delta-BHC	105080977	97965000	97965000	0.010	6.77190	15.00000	Averaged
8 Heptachlor	100680795	94509720	94509720	0.010	6.12935	15.00000	Averaged
10 Aldrin	32085401	30237240	30237240	0.010	5.76013	15.00000	Averaged
12 Heptachlor epoxide	88415872	85215800	85215800	0.010	3.61934	15.00000	Averaged
13 gamma-Chlordane	86507053	83740000	83740000	0.010	3.19864	15.00000	Averaged
14 alpha-Chlordane	85223511	83836600	83836600	0.010	1.62738	15.00000	Averaged
15 Endosulfan I	79340766	78955880	78955880	0.010	0.48510	15.00000	Averaged
16 4,4'-DDE	76957035	77348280	77348280	0.010	-0.50839	15.00000	Averaged
17 Dieldrin	37084593	36276200	36276200	0.010	2.17986	15.00000	Averaged
18 Endrin	34615788	33548680	33548680	0.010	3.08272	15.00000	Averaged
21 4,4'-DDD	58233878	51114320	51114320	0.010	12.22580	15.00000	Averaged
22 Endosulfan II	34292848	34217680	34217680	0.010	0.21920	15.00000	Averaged
24 4,4'-DDT	53832681	52171840	52171840	0.010	3.08519	15.00000	Averaged
25 Endrin aldehyde	27172747	25760600	25760600	0.010	5.19692	15.00000	Averaged
26 Endosulfan sulfate	31062191	29921360	29921360	0.010	3.67273	15.00000	Averaged
27 Methoxychlor	26993309	25406840	25406840	0.010	5.87727	15.00000	Averaged
29 Endrin ketone	37482127	36504080	36504080	0.010	2.60937	15.00000	Averaged
$ 30 Decachlorobiphenyl	65868518	64423480	64423480	0.010	2.19382	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.67932
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\003F0301.D
Lab Smp Id: AB3 G252
Inj Date : 02-MAR-2010 01:06
Operator : 001754 Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 02-Mar-2010 14:09 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.328	4.328	0.000	1308358	0.02500	0.02482		
4 alpha-BHC						CAS #: 319-84-6	
5.232	5.232	0.000	1639212	0.02500	0.02432		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.875	5.875	0.000	2485809	0.02500	0.02345		
6 beta-BHC						CAS #: 319-85-7	
6.077	6.077	0.000	1119264	0.02500	0.02428		
7 delta-BHC						CAS #: 319-86-8	
6.720	6.720	0.000	2449125	0.02500	0.02331		
8 Heptachlor						CAS #: 76-44-8	
6.833	6.833	0.000	2362743	0.02500	0.02347		
10 Aldrin						CAS #: 309-00-2	
7.654	7.654	0.000	755931	0.02500	0.02356		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.021	9.021	0.000	2130395	0.02500	0.02410		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.409	9.409	0.000	2093500	0.02500	0.02420		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.697	9.697	0.000	2095915	0.02500	0.02459		

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--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.761    9.761    0.000         1973897 0.02500  0.02488
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
10.110	10.110	0.000	1933707	0.02500	0.02513		
17 Dieldrin						CAS #: 60-57-1	
10.261	10.261	0.000	906905	0.02500	0.02446		
18 Endrin						CAS #: 72-20-8	
10.764	10.764	0.000	838717	0.02500	0.02423		
21 4,4'-DDD						CAS #: 72-54-8	
11.088	11.088	0.000	1277858	0.02500	0.02194		
22 Endosulfan II						CAS #: 33213-65-9	
11.127	11.127	0.000	855442	0.02500	0.02494		
24 4,4'-DDT						CAS #: 50-29-3	
11.569	11.569	0.000	1304296	0.02500	0.02423		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.675	11.675	0.000	644015	0.02500	0.02370		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.098	12.098	0.000	748034	0.02500	0.02408		
27 Methoxychlor						CAS #: 72-43-5	
12.623	12.623	0.000	635171	0.02500	0.02353		
29 Endrin ketone						CAS #: 53494-70-5	
12.837	12.837	0.000	912602	0.02500	0.02435		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.587	14.587	0.000	1610587	0.02500	0.02445		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\003F0301.D

Page 1

Date : 02-MAR-2010 01:06

Client ID:

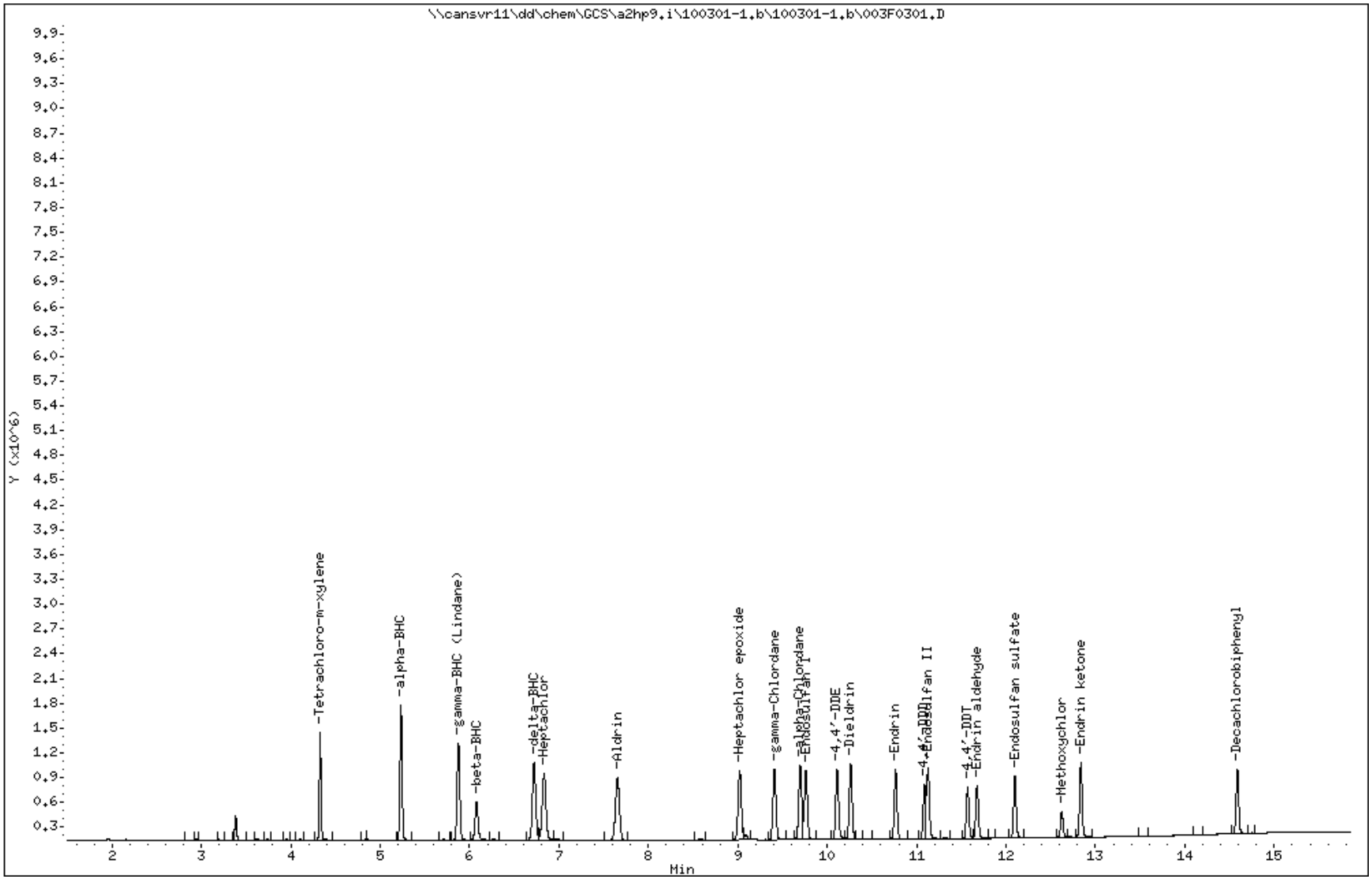
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 01:06
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/003F0301.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.329	1789992	0.025	0.025
4) alpha-BHC	5.232	2795134	0.024	0.024
5) gamma-BHC (Lindane)	5.876	2485809	0.023	0.023
6) beta-BHC	6.077	1119264	0.024	0.024
7) delta-BHC	6.721	2449125	0.023	0.023
8) Heptachlor	6.833	2362743	0.023	0.023
10) Aldrin	7.655	2353798	0.024	0.024
12) Heptachlor epoxide	9.021	2130395	0.024	0.024
13) gamma-Chlordane	9.410	2093500	0.024	0.024
14) alpha-Chlordane	9.697	2095915	0.025	0.025
15) Endosulfan I	9.761	1973897	0.025	0.025
16) 4,4'-DDE	10.111	1933707	0.025	0.025
17) Dieldrin	10.261	2026729	0.024	0.024
18) Endrin	10.765	1808264	0.024	0.024
21) 4,4'-DDD	11.088	1277858	0.022	0.022
22) Endosulfan II	11.127	1933313	0.025	0.025
24) 4,4'-DDT	11.570	1304296	0.024	0.024
25) Endrin aldehyde	11.676	1391220	0.024	0.024
26) Endosulfan sulfate	12.099	1535504	0.024	0.024
27) Methoxychlor	12.623	635171	0.024	0.024
29) Endrin ketone	12.837	1840273	0.024	0.024
30) Decachlorobiphenyl	14.587	1610587	0.024	0.024

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 01:29
Lab File ID: 004F0401.D Init. Cal. Date(s): 04-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 10:17 13:53
Lab Sample ID: TOX3 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
23 Toxaphene(1)	1269284	1139677	1139677	0.010	10.21104	15.00000	Averaged
(2)	1214923	1099880	1099880	0.010	9.46914	15.00000	Averaged
(3)	762451	713798	713798	0.010	6.38108	15.00000	Averaged
(4)	564283	502735	502735	0.010	10.90727	15.00000	Averaged
(5)	1095184	1015125	1015125	0.010	7.31011	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 8.85573
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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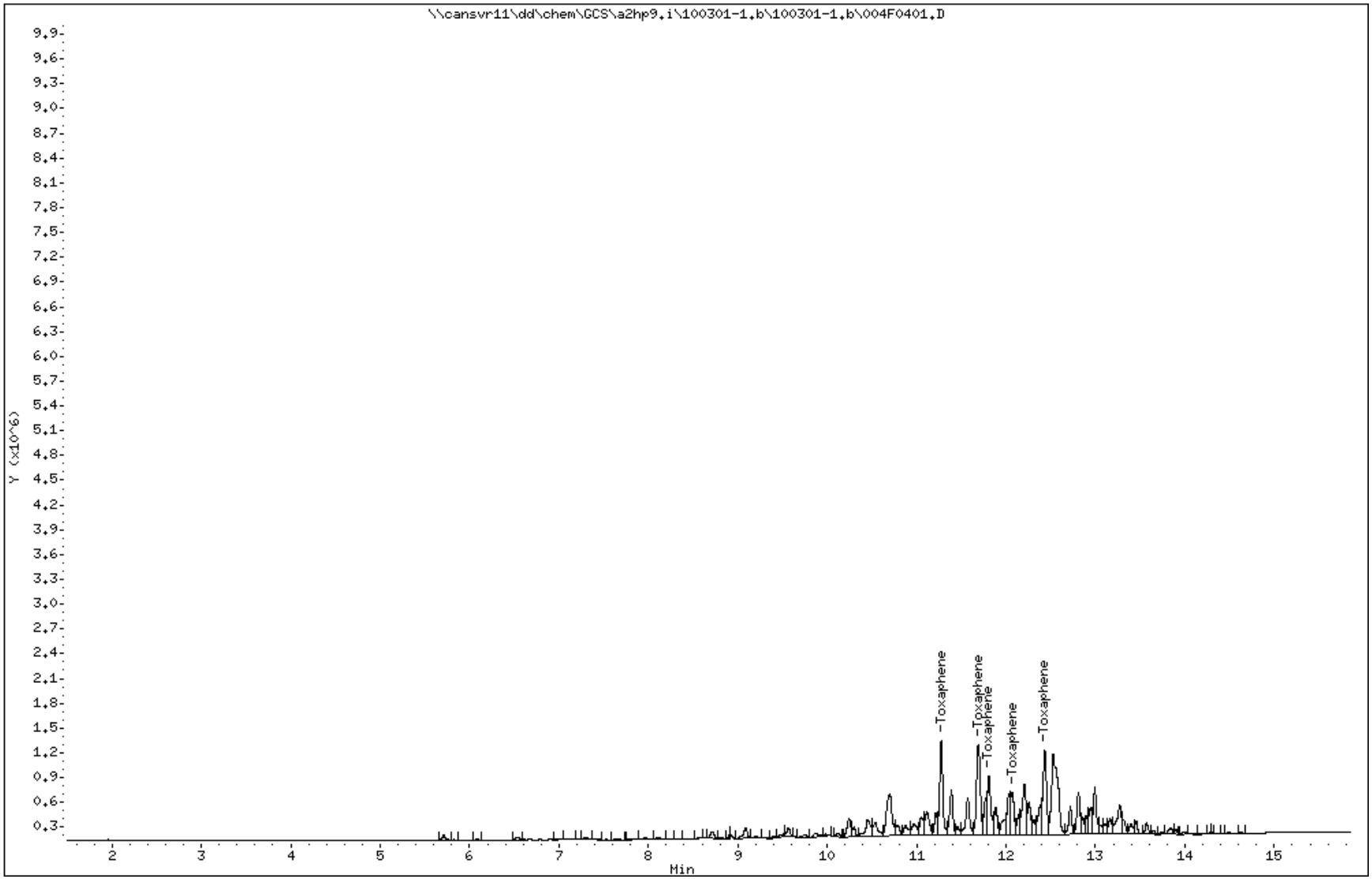
PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\004F0401.D
Lab Smp Id: TOX3
Inj Date : 02-MAR-2010 01:29
Operator : 001754 Inst ID: a2hp9.i
Smp Info : TOX3,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 02-Mar-2010 14:09 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
23 Toxaphene						CAS #: 8001-35-2		
11.274	11.274	0.000	1139677	1.00000	0.8979	80.00-	120.00	100.00
11.689	11.689	0.000	1099880	1.00000	0.9053	114.04-	154.04	96.51
11.808	11.808	0.000	713798	1.00000	0.9362	115.64-	155.64	62.63
12.068	12.068	0.000	502735	1.00000	0.8909	52.78-	92.78	44.11
12.432	12.432	0.000	1015125	1.00000	0.9269	69.36-	109.36	89.07
		Average of Peak Amounts =			0.91144			

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\004F0401.D Page 1
Date : 02-MAR-2010 01:29
Client ID:
Sample Info: TOX3,,2
Instrument: a2hp9.i
Operator: 001754
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 01:29
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/004F0401.D
Lab Sample ID: TOX3
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.275	2865425	0.898	0.898

Report Date: 02-Mar-2010 14:09

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RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 001754
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004130	82.60	70-130
5 gamma-BHC (Lindane	0.005000	0.004378	87.55	70-130
6 beta-BHC	0.005000	0.005139	102.79	70-130
7 delta-BHC	0.005000	0.004141	82.82	70-130
8 Heptachlor	0.005000	0.004645	92.91	70-130
10 Aldrin	0.005000	0.004360	87.20	70-130
12 Heptachlor epoxide	0.005000	0.004486	89.72	70-130
13 gamma-Chlordane	0.005000	0.004669	93.39	70-130
14 alpha-Chlordane	0.005000	0.004803	96.07	70-130
15 Endosulfan I	0.005000	0.004840	96.80	70-130
16 4,4'-DDE	0.005000	0.004681	93.62	70-130
17 Dieldrin	0.005000	0.004468	89.37	70-130
18 Endrin	0.005000	0.004389	87.79	70-130
21 4,4'-DDD	0.005000	0.003777	75.54	70-130
22 Endosulfan II	0.005000	0.004811	96.22	70-130
24 4,4'-DDT	0.005000	0.004409	88.19	70-130
25 Endrin aldehyde	0.005000	0.004709	94.18	70-130
26 Endosulfan sulfate	0.005000	0.004700	93.99	70-130
27 Methoxychlor	0.005000	0.004507	90.13	70-130
29 Endrin ketone	0.005000	0.004935	98.70	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\006F0601.D
Lab Smp Id: MRL
Inj Date : 02-MAR-2010 02:16
Operator : 001754 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 02-Mar-2010 14:09 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 6 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
4 alpha-BHC						CAS #: 319-84-6	
5.231	5.232	-0.001	278346	0.00413	0.004130		
55 DDD/Endosulfan II						CAS #: 72-54-8/332-65-	

Peaks not detected for Quant. or Qual. signal(s).

5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.874	5.875	-0.001	464107	0.00438	0.004378		
6 beta-BHC						CAS #: 319-85-7	
6.075	6.077	-0.002	236860	0.00514	0.005139		
7 delta-BHC						CAS #: 319-86-8	
6.718	6.720	-0.002	435152	0.00414	0.004141		

```
    8 Heptachlor                                    CAS #: 76-44-8
6.830    6.833   -0.003          467692 0.00465  0.004645
--------------------------------------------------------------------------------
   10 Aldrin                                        CAS #: 309-00-2
7.652    7.654   -0.002          139890 0.00436  0.004360
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.019	9.021	-0.002	396647	0.00449	0.004486		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.407	9.409	-0.002	403936	0.00467	0.004669		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.697	9.697	0.000	409357	0.00480	0.004803		
15 Endosulfan I					CAS #: 959-98-8		
9.759	9.761	-0.002	383995	0.00484	0.004840		
16 4,4'-DDE					CAS #: 72-55-9		
10.110	10.110	0.000	360223	0.00468	0.004681		
17 Dieldrin					CAS #: 60-57-1		
10.261	10.261	0.000	165714	0.00447	0.004468		
18 Endrin					CAS #: 72-20-8		
10.764	10.764	0.000	151945	0.00439	0.004389		
21 4,4'-DDD					CAS #: 72-54-8		
11.088	11.088	0.000	219944	0.00378	0.003777		
22 Endosulfan II					CAS #: 33213-65-9		
11.127	11.127	0.000	164975	0.00481	0.004811		
24 4,4'-DDT					CAS #: 50-29-3		
11.570	11.569	0.001	237365	0.00441	0.004409		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.676	11.675	0.001	127955	0.00471	0.004709		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.099	12.098	0.001	145982	0.00470	0.004700		
27 Methoxychlor					CAS #: 72-43-5		
12.623	12.623	0.000	121651	0.00451	0.004507		
29 Endrin ketone					CAS #: 53494-70-5		
12.837	12.837	0.000	184966	0.00493	0.004935		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\006F0601.D

Date : 02-MAR-2010 02:16

Client ID:

Instrument: a2hp9.i

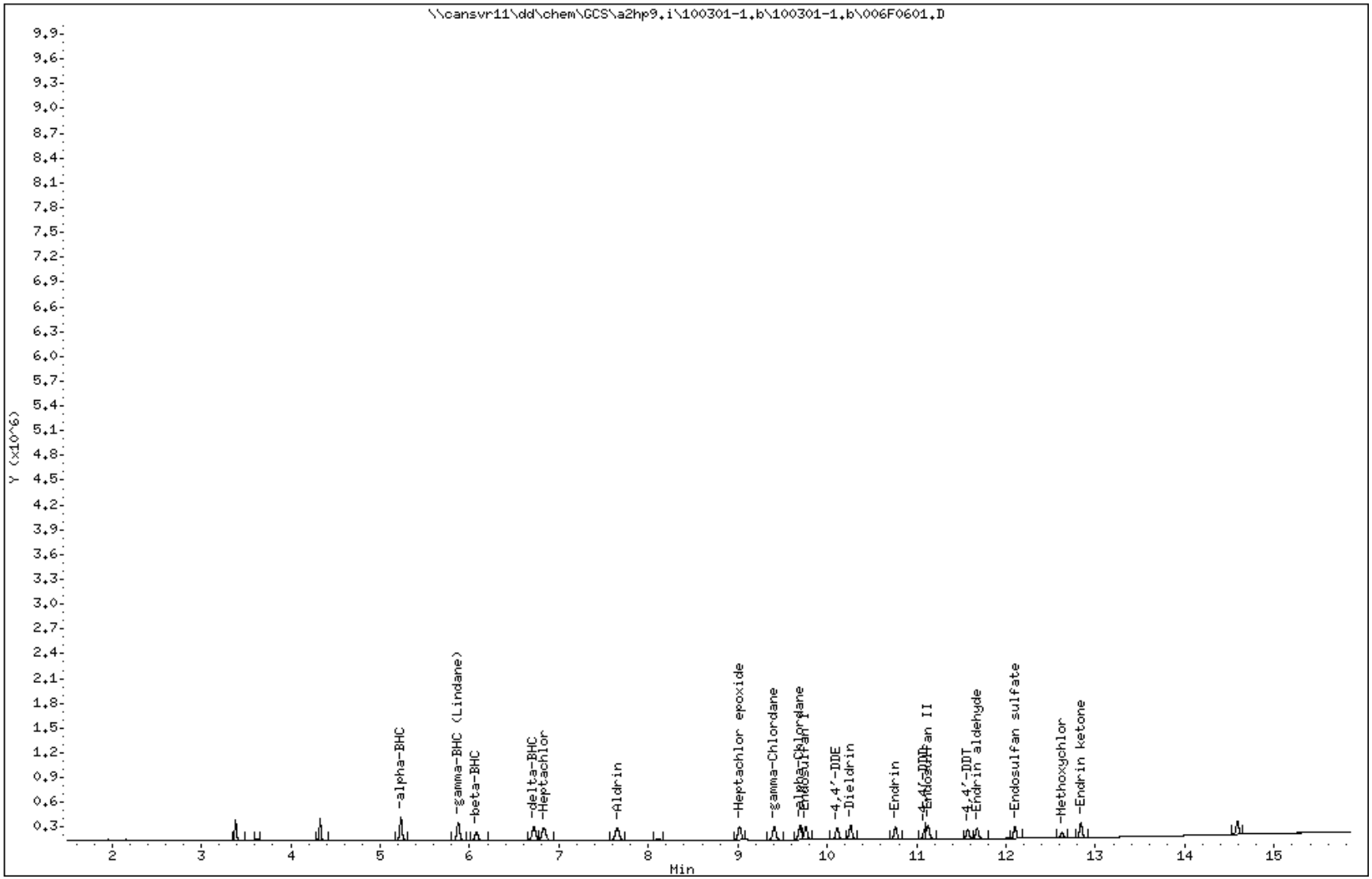
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 07:19
Lab File ID: 017F1701.D Init. Cal. Date(s): 04-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 10:17 13:53
Lab Sample ID: AB3 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	52712496	53615520	53615520	0.000	-1.71311	15.00000	Averaged
4 alpha-BHC	67398424	68239880	68239880	0.010	-1.24848	15.00000	Averaged
5 gamma-BHC (Lindane)	106019444	102860760	102860760	0.010	2.97934	15.00000	Averaged
6 beta-BHC	46086957	45617200	45617200	0.010	1.01928	15.00000	Averaged
7 delta-BHC	105080977	103387080	103387080	0.010	1.61199	15.00000	Averaged
8 Heptachlor	100680795	98617640	98617640	0.010	2.04920	15.00000	Averaged
10 Aldrin	32085401	31313000	31313000	0.010	2.40733	15.00000	Averaged
12 Heptachlor epoxide	88415872	87118760	87118760	0.010	1.46706	15.00000	Averaged
13 gamma-Chlordane	86507053	82914520	82914520	0.010	4.15288	15.00000	Averaged
14 alpha-Chlordane	85223511	83079720	83079720	0.010	2.51549	15.00000	Averaged
15 Endosulfan I	79340766	78088160	78088160	0.010	1.57877	15.00000	Averaged
16 4,4'-DDE	76957035	77049280	77049280	0.010	-0.11987	15.00000	Averaged
17 Dieldrin	37084593	36084000	36084000	0.010	2.69814	15.00000	Averaged
18 Endrin	34615788	34205480	34205480	0.010	1.18532	15.00000	Averaged
21 4,4'-DDD	58233878	54956280	54956280	0.010	5.62834	15.00000	Averaged
22 Endosulfan II	34292848	34206200	34206200	0.010	0.25267	15.00000	Averaged
24 4,4'-DDT	53832681	55426560	55426560	0.010	-2.96080	15.00000	Averaged
25 Endrin aldehyde	27172747	26607200	26607200	0.010	2.08130	15.00000	Averaged
26 Endosulfan sulfate	31062191	30801360	30801360	0.010	0.83971	15.00000	Averaged
27 Methoxychlor	26993309	27984680	27984680	0.010	-3.67265	15.00000	Averaged
29 Endrin ketone	37482127	37209720	37209720	0.010	0.72676	15.00000	Averaged
$ 30 Decachlorobiphenyl	65868518	65759480	65759480	0.010	0.16554	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.95791
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\017F1701.D
Lab Smp Id: AB3
Inj Date : 02-MAR-2010 07:19
Operator : 001754 Inst ID: a2hp9.i
Smp Info : AB3,,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 02-Mar-2010 14:12 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.328	4.328	0.000	1340388	0.02500	0.02543		
4 alpha-BHC						CAS #: 319-84-6	
5.232	5.232	0.000	1705997	0.02500	0.02531		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.875	5.875	0.000	2571519	0.02500	0.02426		
6 beta-BHC						CAS #: 319-85-7	
6.076	6.076	0.000	1140430	0.02500	0.02474		
7 delta-BHC						CAS #: 319-86-8	
6.720	6.720	0.000	2584677	0.02500	0.02460		
8 Heptachlor						CAS #: 76-44-8	
6.833	6.833	0.000	2465441	0.02500	0.02449		
10 Aldrin						CAS #: 309-00-2	
7.654	7.654	0.000	782825	0.02500	0.02440		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.021	9.021	0.000	2177969	0.02500	0.02463		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.410	9.410	0.000	2072863	0.02500	0.02396		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.698	9.698	0.000	2076993	0.02500	0.02437		

```
--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.762    9.762    0.000         1952204 0.02500  0.02460
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
10.110	10.110	0.000	1926232	0.02500	0.02503		
17 Dieldrin						CAS #: 60-57-1	
10.263	10.263	0.000	902100	0.02500	0.02432		
18 Endrin						CAS #: 72-20-8	
10.765	10.765	0.000	855137	0.02500	0.02470		
21 4,4'-DDD						CAS #: 72-54-8	
11.086	11.086	0.000	1373907	0.02500	0.02359		
22 Endosulfan II						CAS #: 33213-65-9	
11.126	11.126	0.000	855155	0.02500	0.02494		
24 4,4'-DDT						CAS #: 50-29-3	
11.569	11.569	0.000	1385664	0.02500	0.02574		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.675	11.675	0.000	665180	0.02500	0.02448		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.098	12.098	0.000	770034	0.02500	0.02479		
27 Methoxychlor						CAS #: 72-43-5	
12.621	12.621	0.000	699617	0.02500	0.02592		
29 Endrin ketone						CAS #: 53494-70-5	
12.836	12.836	0.000	930243	0.02500	0.02482		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.586	14.586	0.000	1643987	0.02500	0.02496		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\017F1701.D

Page 1

Date : 02-MAR-2010 07:19

Client ID:

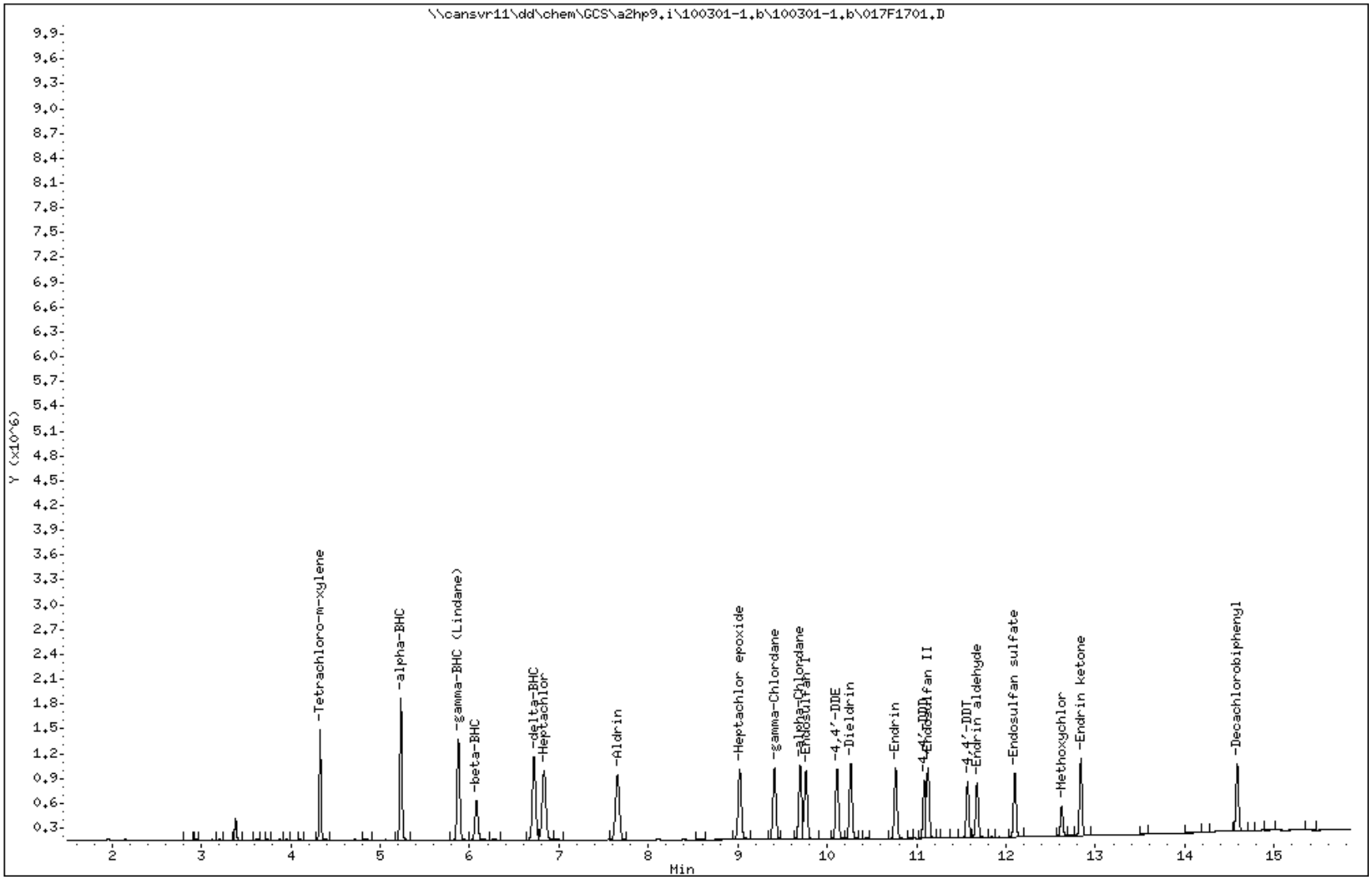
Instrument: a2hp9.i

Sample Info: AB3,,2

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 07:19
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/017F1701.D
Lab Sample ID: AB3
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.328	1804563	0.025	0.025
4) alpha-BHC	5.232	2891290	0.025	0.025
5) gamma-BHC (Lindane)	5.876	2571519	0.024	0.024
6) beta-BHC	6.077	1140430	0.025	0.025
7) delta-BHC	6.721	2584677	0.025	0.025
8) Heptachlor	6.833	2465441	0.024	0.024
10) Aldrin	7.655	2398597	0.024	0.024
12) Heptachlor epoxide	9.022	2177969	0.025	0.025
13) gamma-Chlordane	9.411	2072863	0.024	0.024
14) alpha-Chlordane	9.698	2076993	0.024	0.024
15) Endosulfan I	9.762	1952204	0.025	0.025
16) 4,4'-DDE	10.111	1926232	0.025	0.025
17) Dieldrin	10.263	2006468	0.024	0.024
18) Endrin	10.766	1839354	0.025	0.025
21) 4,4'-DDD	11.087	1373907	0.024	0.024
22) Endosulfan II	11.127	1848592	0.025	0.025
24) 4,4'-DDT	11.570	1385664	0.026	0.026
25) Endrin aldehyde	11.676	1379271	0.024	0.024
26) Endosulfan sulfate	12.098	1566086	0.025	0.025
27) Methoxychlor	12.622	699617	0.026	0.026
29) Endrin ketone	12.837	1844255	0.025	0.025
30) Decachlorobiphenyl	14.587	1643987	0.025	0.025

Report Date: 02-Mar-2010 14:13

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 001754
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004339	86.79	70-130
5 gamma-BHC (Lindane	0.005000	0.004538	90.76	70-130
6 beta-BHC	0.005000	0.005283	105.66	70-130
7 delta-BHC	0.005000	0.004428	88.56	70-130
8 Heptachlor	0.005000	0.004790	95.80	70-130
10 Aldrin	0.005000	0.004477	89.54	70-130
12 Heptachlor epoxide	0.005000	0.004987	99.75	70-130
13 gamma-Chlordane	0.005000	0.004736	94.72	70-130
14 alpha-Chlordane	0.005000	0.004879	97.58	70-130
15 Endosulfan I	0.005000	0.004870	97.40	70-130
16 4,4'-DDE	0.005000	0.004834	96.68	70-130
17 Dieldrin	0.005000	0.004598	91.96	70-130
18 Endrin	0.005000	0.004662	93.25	70-130
21 4,4'-DDD	0.005000	0.004558	91.17	70-130
22 Endosulfan II	0.005000	0.004939	98.79	70-130
24 4,4'-DDT	0.005000	0.004923	98.47	70-130
25 Endrin aldehyde	0.005000	0.004859	97.17	70-130
26 Endosulfan sulfate	0.005000	0.005079	101.58	70-130
27 Methoxychlor	0.005000	0.005230	104.61	70-130
29 Endrin ketone	0.005000	0.005156	103.13	70-130

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\018F1801.D
Lab Smp Id: MRL
Inj Date : 02-MAR-2010 07:43
Operator : 001754 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 02-Mar-2010 14:12 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 18 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.231	5.232	-0.001	292472	0.00434	0.004339		
55 DDD/Endosulfan II						CAS #: 72-54-8/332-65-	

Peaks not detected for Quant. or Qual. signal(s).

5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.874	5.875	-0.001	481120	0.00454	0.004538		
6 beta-BHC						CAS #: 319-85-7	
6.077	6.076	0.001	243470	0.00528	0.005283		
7 delta-BHC						CAS #: 319-86-8	
6.719	6.720	-0.001	465324	0.00443	0.004428		

```
    8 Heptachlor                                    CAS #: 76-44-8
6.831    6.833   -0.002          482241 0.00479  0.004790
--------------------------------------------------------------------------------
   10 Aldrin                                        CAS #: 309-00-2
7.653    7.654   -0.001          143647 0.00448  0.004477
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.020	9.021	-0.001	440970	0.00499	0.004987		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.409	9.410	-0.001	409686	0.00474	0.004736		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.697	9.698	-0.001	415791	0.00488	0.004879		
15 Endosulfan I					CAS #: 959-98-8		
9.761	9.762	-0.001	386389	0.00487	0.004870		
16 4,4'-DDE					CAS #: 72-55-9		
10.109	10.110	-0.001	372015	0.00483	0.004834		
17 Dieldrin					CAS #: 60-57-1		
10.262	10.263	-0.001	170507	0.00460	0.004598		
18 Endrin					CAS #: 72-20-8		
10.764	10.765	-0.001	161396	0.00466	0.004662		
21 4,4'-DDD					CAS #: 72-54-8		
11.086	11.086	0.000	265457	0.00456	0.004558		
22 Endosulfan II					CAS #: 33213-65-9		
11.126	11.126	0.000	169386	0.00494	0.004939		
24 4,4'-DDT					CAS #: 50-29-3		
11.569	11.569	0.000	265037	0.00492	0.004923		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.675	11.675	0.000	132025	0.00486	0.004859		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.098	12.098	0.000	157762	0.00508	0.005079		
27 Methoxychlor					CAS #: 72-43-5		
12.622	12.621	0.001	141186	0.00523	0.005230		
29 Endrin ketone					CAS #: 53494-70-5		
12.835	12.836	-0.001	193278	0.00516	0.005156		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\018F1801.D Page 1

Date : 02-MAR-2010 07:43

Client ID:

Instrument: a2hp9.i

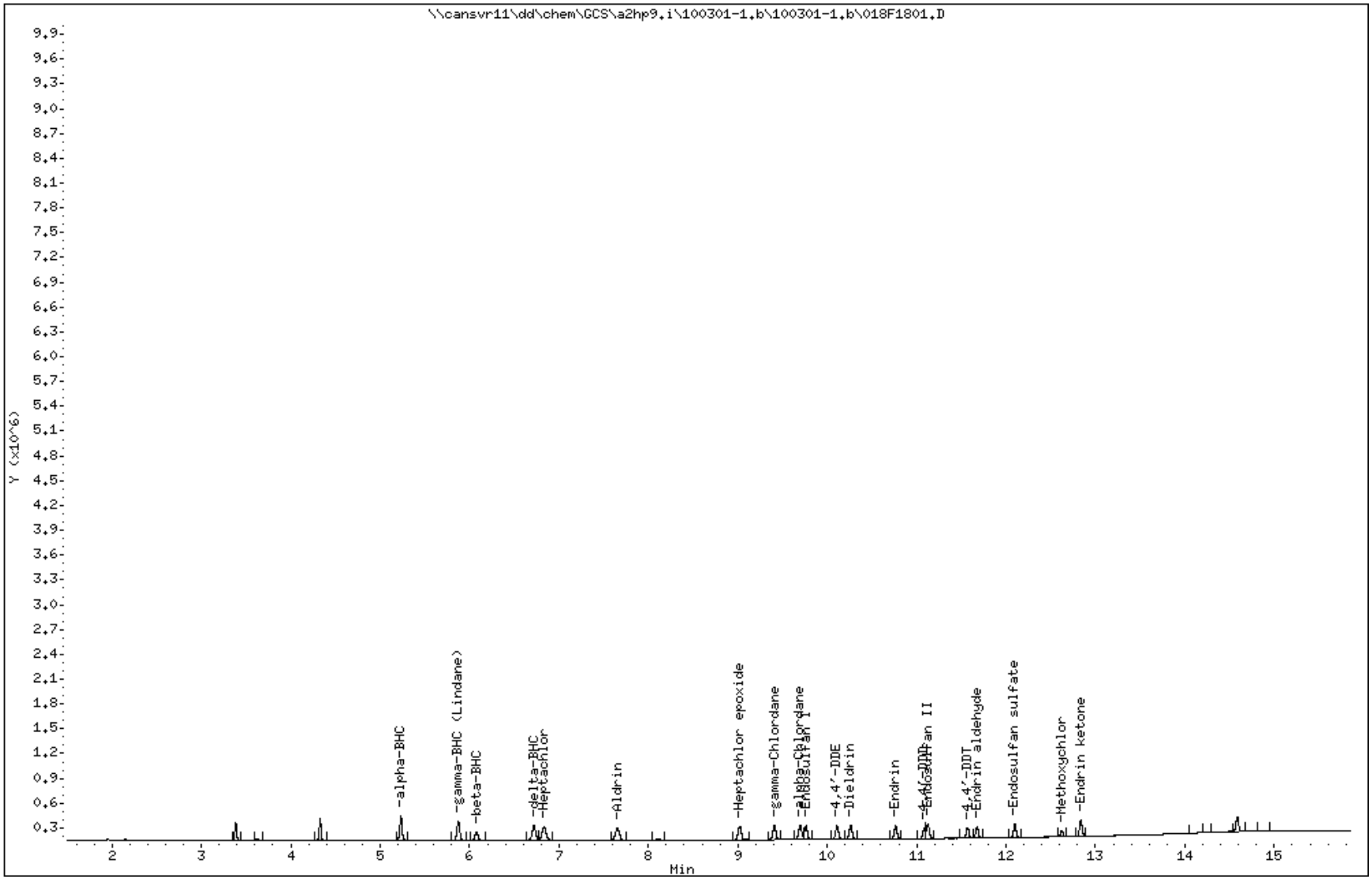
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b/022F2201.D
Report Date: 03/02/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 09:20
Lab File ID: 022F2201.D Lab Sample ID: PEM
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
11.569	5729093	4,4'-DDT
10.110	29837	4,4'-DDE
11.087	186084	4,4'-DDD

Percent Degradation of 4,4'-DDT: 3.63

Endrin Degradation

RT	Area	Compound
10.765	3351082	Endrin
11.676	129623	Endrin aldehyde
12.832	350624	Endrin ketone

Percent Degradation of Endrin: 12.53

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\022F2201.D
Lab Smp Id: PEM
Inj Date : 02-MAR-2010 09:20
Operator : 001754 Inst ID: a2hp9.i
Smp Info : PEM
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 02-Mar-2010 14:12 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 22 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
5.232	5.232	0.000	596426	0.00885	0.008849		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.874	5.875	-0.001	950094	0.00896	0.008962		
6 beta-BHC					CAS #: 319-85-7		
6.077	6.076	0.001	429128	0.00931	0.009311		
16 4,4'-DDE					CAS #: 72-55-9		
10.109	10.110	-0.001	29837	4e-004	0.0003877		
18 Endrin					CAS #: 72-20-8		
10.764	10.765	-0.001	1572435	0.04543	0.04542		
21 4,4'-DDD					CAS #: 72-54-8		
11.086	11.086	0.000	186084	0.00320	0.003195		
22 Endosulfan II					CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		
11.569	11.569	0.000	5729093	0.10642	0.1064		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.675	11.675	0.000	52478	0.00193	0.001931		

```
   27 Methoxychlor                                CAS #: 72-43-5
12.621  12.621    0.000         6834061 0.25318   0.2532
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
26 Endosulfan sulfate						CAS #: 1031-07-8	
Peaks not detected for Quant. or Qual. signal(s).							
29 Endrin ketone						CAS #: 53494-70-5	
12.832	12.836	-0.004	154348	0.00412	0.004118		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\022F2201.D

Date : 02-MAR-2010 09:20

Client ID:

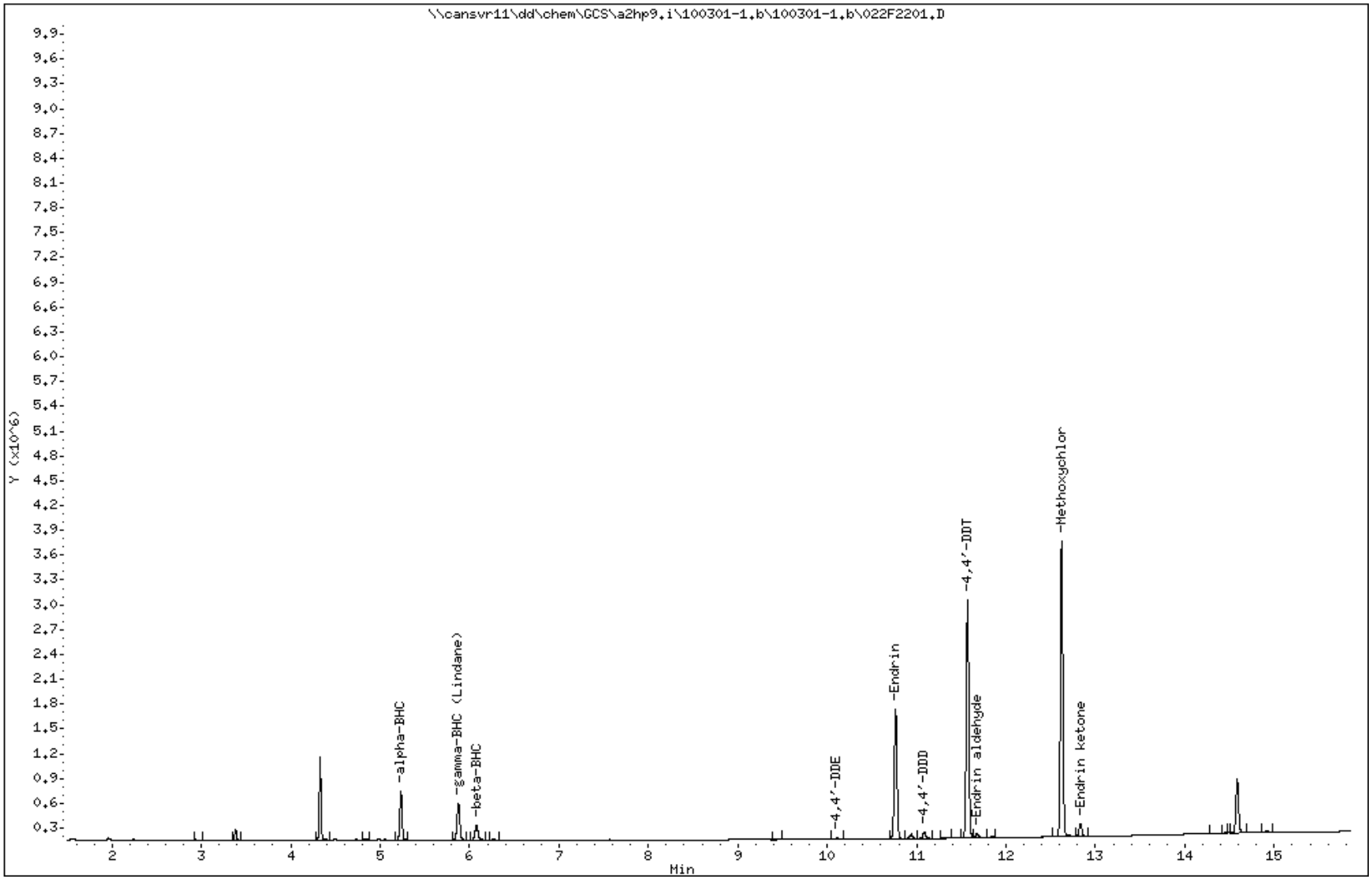
Instrument: a2hp9.i

Sample Info: PEM

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 09:20
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/022F2201.D
Lab Sample ID: PEM
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.232	1024167	0.009	0.009
5) gamma-BHC (Lindane)	5.875	950094	0.009	0.009
6) beta-BHC	6.077	429128	0.009	0.009
16) 4,4'-DDE	10.110	29837	0.000	0.000
18) Endrin	10.765	3351082	0.045	0.045
21) 4,4'-DDD	11.087	186084	0.003	0.003
22) Endosulfan II	NOT DETECTED	Expected RT = 11.127		
24) 4,4'-DDT	11.569	5729093	0.106	0.106
25) Endrin aldehyde	11.676	129623	0.002	0.002
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.099		
27) Methoxychlor	12.622	6834061	0.253	0.253
29) Endrin ketone	12.832	350624	0.004	0.004

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 02-MAR-2010 10:10
Lab File ID: 024F2401.D Init. Cal. Date(s): 04-FEB-2010 22-FEB-2010
Analysis Type: Init. Cal. Times: 10:17 13:53
Lab Sample ID: TOX3 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
23 Toxaphene(1)	1269284	1209502	1209502	0.010	4.70991	15.00000	Averaged
(2)	1214923	1137575	1137575	0.010	6.36647	15.00000	Averaged
(3)	762451	746518	746518	0.010	2.08965	15.00000	Averaged
(4)	564283	523564	523564	0.010	7.21604	15.00000	Averaged
(5)	1095184	1066111	1066111	0.010	2.65464	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.60734
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\024F2401.D
Lab Smp Id: TOX3
Inj Date : 02-MAR-2010 10:10
Operator : 001754 Inst ID: a2hp9.i
Smp Info : TOX3,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 02-Mar-2010 14:14 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.274	11.274	0.000	1209502	1.00000	0.9529	80.00- 120.00	100.00
11.689	11.689	0.000	1137575	1.00000	0.9363	114.04- 154.04	94.05
11.809	11.809	0.000	746518	1.00000	0.9791	115.64- 155.64	61.72
12.068	12.068	0.000	523564	1.00000	0.9278	52.78- 92.78	43.29
12.433	12.433	0.000	1066111	1.00000	0.9734	69.36- 109.36	88.14
		Average of Peak Amounts =			0.95390		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\024F2401.D

Date : 02-MAR-2010 10:10

Client ID:

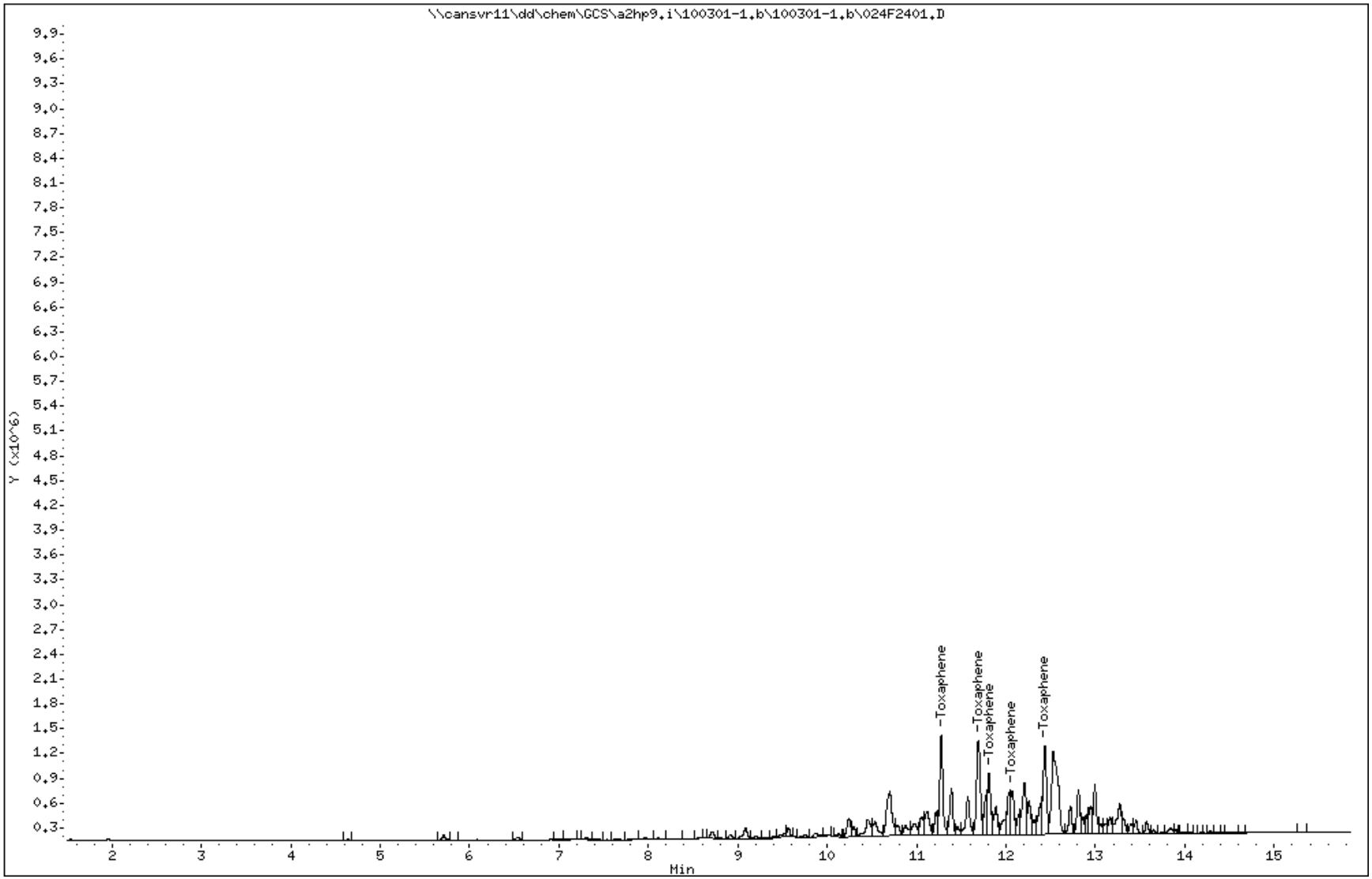
Instrument: a2hp9.i

Sample Info: TOX3,,2

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 10:10
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/024F2401.D
Lab Sample ID: TOX3
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.275	2989055	0.953	0.953

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\007F0701.D
Lab Smp Id: AB 1 SOLID MDL
Inj Date : 07-JAN-2010 12:27
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB 1 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION   tv = 3.33 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.806	3.805	0.001	1063765	0.00921	0.09211		
4 alpha-BHC						CAS #: 319-84-6	
4.509	4.508	0.001	1592441	0.00848	2.826		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.934	4.933	0.001	1469492	0.00868	2.892		
6 beta-BHC						CAS #: 319-85-7	
5.082	5.081	0.001	371977	0.00922	3.072		
7 delta-BHC						CAS #: 319-86-8	
5.331	5.330	0.001	1428043	0.00875	2.916		
		Sum of Peak Concentrations =			2.916		
8 Heptachlor						CAS #: 76-44-8	
5.656	5.656	0.000	699967	0.00897	2.991		

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   10 Aldrin                                      CAS #: 309-00-2
6.187    6.186    0.001         1727084 0.01059    3.529
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.634	7.631	0.003	446053	0.00942	3.139		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.934	7.932	0.002	452925	0.00884	2.946		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.246	8.243	0.003	534411	0.01016	3.387		
15 Endosulfan I						CAS #: 959-98-8	
8.501	8.499	0.002	451597	0.00918	3.060		
16 4,4'-DDE						CAS #: 72-55-9	
8.570	8.568	0.002	1195417	0.00852	2.839		
17 Dieldrin						CAS #: 60-57-1	
9.011	9.010	0.001	1301534	0.00889	2.963		
18 Endrin						CAS #: 72-20-8	
9.435	9.434	0.001	504131	0.00923	3.078		
20 4,4'-DDD						CAS #: 72-54-8	
9.747	9.746	0.001	969186	0.00920	3.067		
22 Endosulfan II						CAS #: 33213-65-9	
9.856	9.854	0.002	493635	0.00946	3.153		
23 4,4'-DDT						CAS #: 50-29-3	
10.236	10.234	0.002	1035447	0.00935	3.116		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.610	10.609	0.001	417604	0.00943	3.145		
27 Methoxychlor						CAS #: 72-43-5	
11.131	11.130	0.001	632752	0.01193	3.976		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.310	11.308	0.002	1152114	0.01069	3.563		
29 Endrin ketone						CAS #: 53494-70-5	
11.702	11.702	0.000	606860	0.00972	3.241		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.251	13.251	0.000	604969	0.01086	0.1086		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\007F0701.D

Date : 07-JAN-2010 12:27

Client ID:

Instrument: a2hp9.i

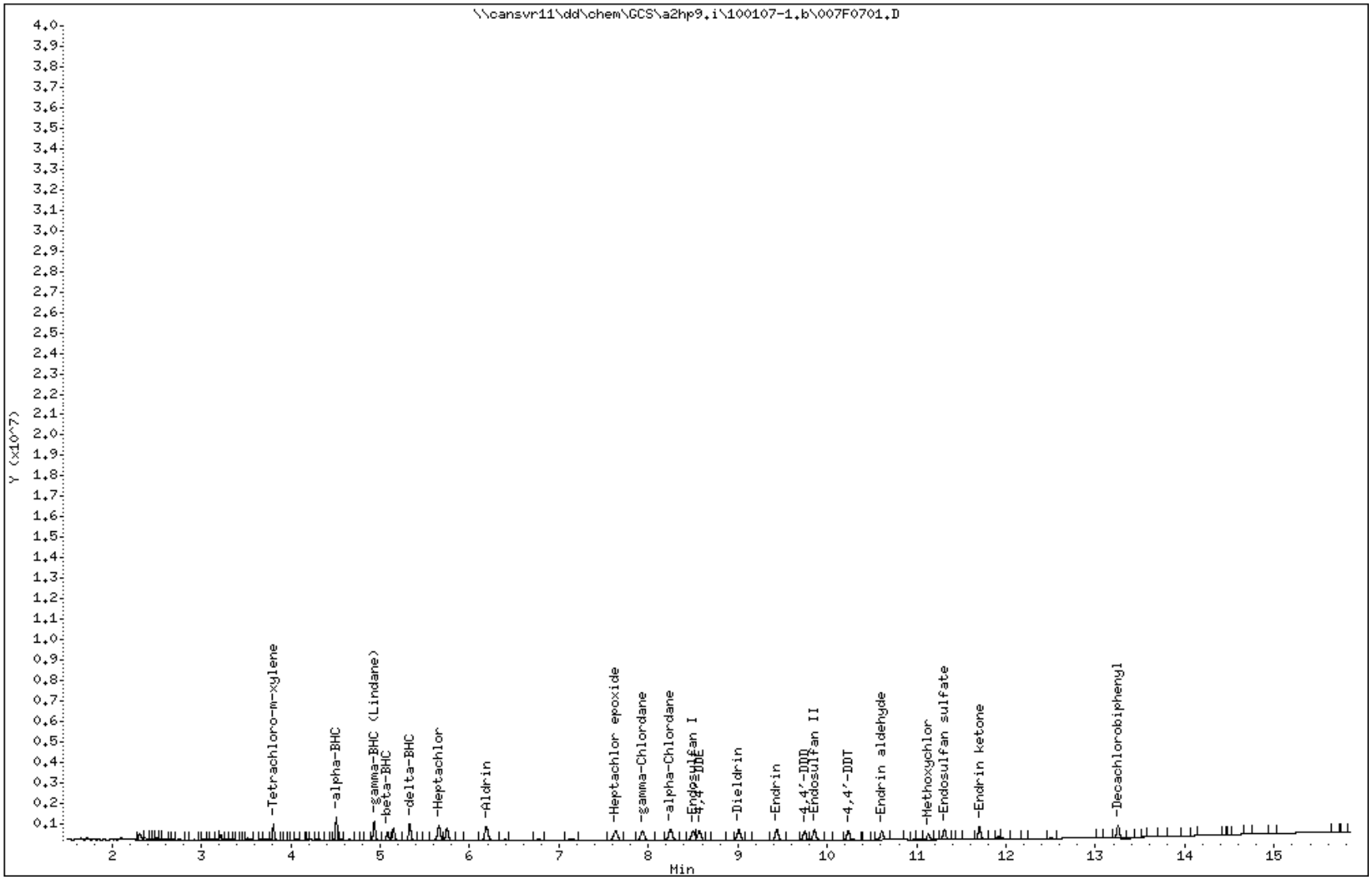
Sample Info: AB 1 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:27
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/007F0701.D
Lab Sample ID: AB 1 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.806	1063765	0.009	0.092 ug/Kg
4) alpha-BHC	4.509	1592441	0.008	2.826 ug/Kg
5) gamma-BHC (Lindane)	4.934	1469492	0.009	2.893 ug/Kg
6) beta-BHC	5.083	631210	0.009	3.072 ug/Kg
7) delta-BHC	5.332	1428043	0.009	2.916 ug/Kg
8) Heptachlor	5.657	1468108	0.009	2.991 ug/Kg
10) Aldrin	6.188	1727084	0.011	3.529 ug/Kg
12) Heptachlor epoxide	7.634	1370556	0.009	3.139 ug/Kg
13) gamma-Chlordane	7.934	1382896	0.009	2.946 ug/Kg
14) alpha-Chlordane	8.247	1540466	0.010	3.387 ug/Kg
15) Endosulfan I	8.501	1234650	0.009	3.060 ug/Kg
16) 4,4'-DDE	8.570	1195417	0.009	2.839 ug/Kg
17) Dieldrin	9.011	1301534	0.009	2.963 ug/Kg
18) Endrin	9.435	1240416	0.009	3.078 ug/Kg
20) 4,4'-DDD	9.748	969186	0.009	3.067 ug/Kg
22) Endosulfan II	9.857	1184811	0.009	3.153 ug/Kg
23) 4,4'-DDT	10.236	1035447	0.009	3.116 ug/Kg
25) Endrin aldehyde	10.610	957105	0.009	3.145 ug/Kg
27) Methoxychlor	11.131	632752	0.012	3.976 ug/Kg
28) Endosulfan sulfate	11.310	1152114	0.011	3.563 ug/Kg
29) Endrin ketone	11.703	1253356	0.010	3.241 ug/Kg
30) Decachlorobiphenyl	13.252	1422231	0.011	0.109 ug/Kg

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\008F0801.D
Lab Smp Id: AB 0.4 SOLID MDL
Inj Date : 07-JAN-2010 12:52
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB 0.4 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.sub
Target Version: 4.14   Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.804	3.805	-0.001	451791	0.00391	0.03912		
4 alpha-BHC					CAS #: 319-84-6		
4.508	4.508	0.000	649306	0.00346	1.152		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.933	4.933	0.000	612612	0.00362	1.206		
6 beta-BHC					CAS #: 319-85-7		
5.080	5.081	-0.001	160417	0.00397	1.325		
7 delta-BHC					CAS #: 319-86-8		
5.330	5.330	0.000	638937	0.00391	1.305		
		Sum of Peak Concentrations =			1.305		
8 Heptachlor					CAS #: 76-44-8		
5.656	5.656	0.000	253566	0.00325	1.083		

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   10 Aldrin                                      CAS #: 309-00-2
6.184    6.186   -0.002          911028 0.00558    1.861
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.630	7.631	-0.001	164150	0.00347	1.155		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.931	7.932	-0.001	159904	0.00312	1.040		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.244	8.243	0.001	177080	0.00337	1.122		
15 Endosulfan I					CAS #: 959-98-8		
8.501	8.499	0.002	161080	0.00327	1.092		
16 4,4'-DDE					CAS #: 72-55-9		
8.569	8.568	0.001	435040	0.00310	1.033		
17 Dieldrin					CAS #: 60-57-1		
9.009	9.010	-0.001	465936	0.00318	1.061		
18 Endrin					CAS #: 72-20-8		
9.433	9.434	-0.001	184032	0.00337	1.123		
20 4,4'-DDD					CAS #: 72-54-8		
9.745	9.746	-0.001	347326	0.00330	1.099		
22 Endosulfan II					CAS #: 33213-65-9		
9.854	9.854	0.000	184841	0.00354	1.180		
23 4,4'-DDT					CAS #: 50-29-3		
10.234	10.234	0.000	366066	0.00330	1.102		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.609	10.609	0.000	161669	0.00365	1.217		
27 Methoxychlor					CAS #: 72-43-5		
11.130	11.130	0.000	288624	0.00544	1.814		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.308	11.308	0.000	537511	0.00499	1.662		
29 Endrin ketone					CAS #: 53494-70-5		
11.700	11.702	-0.002	219220	0.00351	1.171		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.250	13.251	-0.001	228496	0.00410	0.04100		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\008F0801.D

Page 1

Date : 07-JAN-2010 12:52

Client ID:

Instrument: a2hp9.i

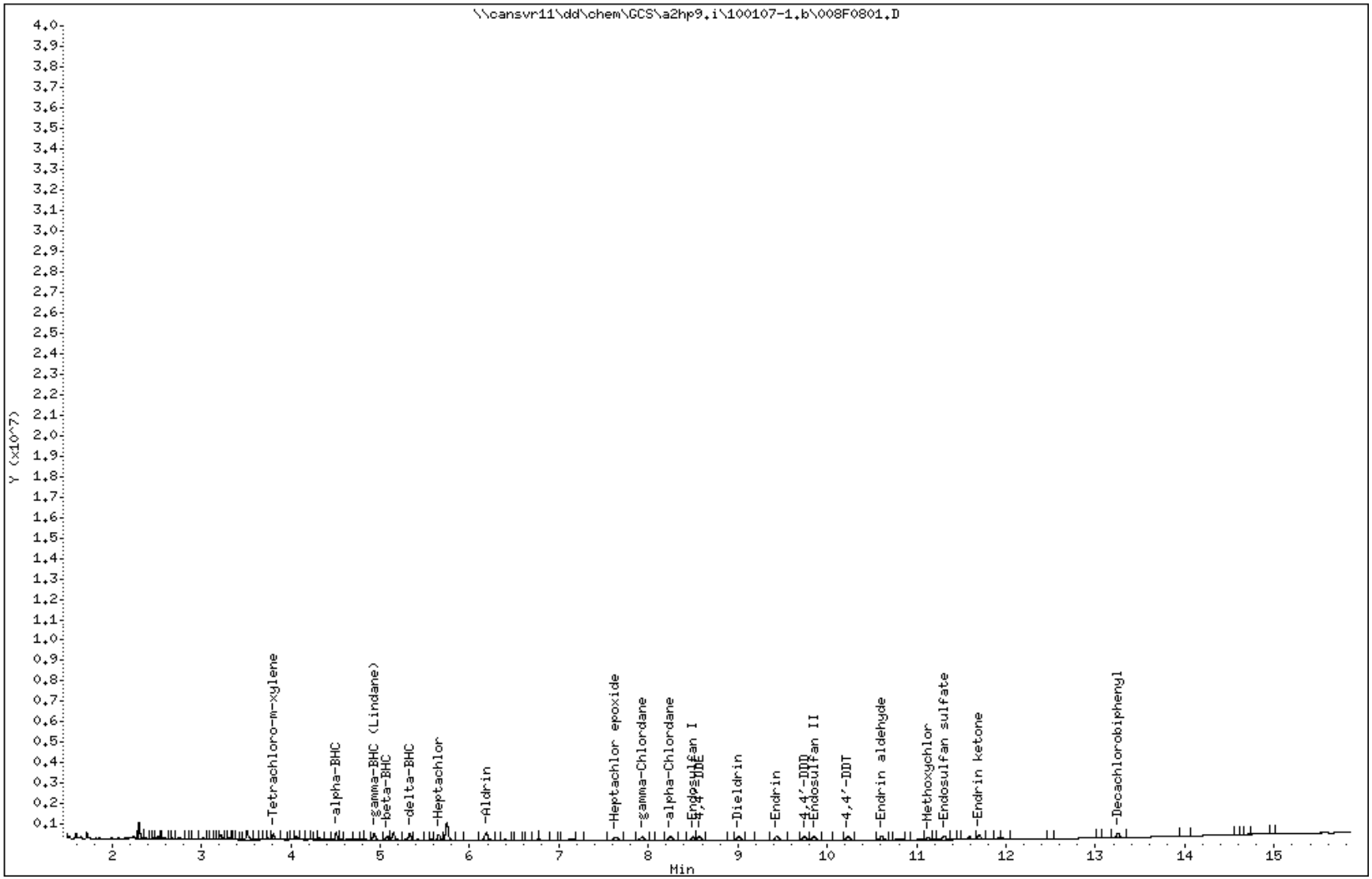
Sample Info: AB 0.4 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:52
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/008F0801.D
Lab Sample ID: AB 0.4 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	3.805	451791	0.004	0.000 ug/Kg
4)	alpha-BHC	4.508	649306	0.003	0.001 ug/Kg
5)	gamma-BHC (Lindane)	4.933	612612	0.004	0.001 ug/Kg
6)	beta-BHC	5.081	317709	0.004	0.001 ug/Kg
7)	delta-BHC	5.331	638937	0.004	0.001 ug/Kg
8)	Heptachlor	5.657	547835	0.003	0.001 ug/Kg
10)	Aldrin	6.185	911028	0.006	0.002 ug/Kg
12)	Heptachlor epoxide	7.631	521587	0.003	0.001 ug/Kg
13)	gamma-Chlordane	7.932	461549	0.003	0.001 ug/Kg
14)	alpha-Chlordane	8.244	506457	0.003	0.001 ug/Kg
15)	Endosulfan I	8.502	436284	0.003	0.001 ug/Kg
16)	4,4'-DDE	8.569	435040	0.003	0.001 ug/Kg
17)	Dieldrin	9.010	465936	0.003	0.001 ug/Kg
18)	Endrin	9.433	519259	0.003	0.001 ug/Kg
20)	4,4'-DDD	9.746	347326	0.003	0.001 ug/Kg
22)	Endosulfan II	9.855	458072	0.004	0.001 ug/Kg
23)	4,4'-DDT	10.234	366066	0.003	0.001 ug/Kg
25)	Endrin aldehyde	10.609	380051	0.004	0.001 ug/Kg
27)	Methoxychlor	11.131	288624	0.005	0.002 ug/Kg
28)	Endosulfan sulfate	11.308	537511	0.005	0.002 ug/Kg
29)	Endrin ketone	11.701	463175	0.004	0.001 ug/Kg
30)	Decachlorobiphenyl	13.251	508710	0.004	0.000 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\009F0901.D
Lab Smp Id: AB 0.2 SOLID MDL
Inj Date : 07-JAN-2010 13:17
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB 0.2 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.804	3.805	-0.001	469225	0.00406	0.04063		
4 alpha-BHC						CAS #: 319-84-6	
4.509	4.508	0.001	401053	0.00214	0.7118		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.933	4.933	0.000	326880	0.00193	0.6434		
6 beta-BHC						CAS #: 319-85-7	
5.081	5.081	0.000	86022	0.00213	0.7105		
7 delta-BHC						CAS #: 319-86-8	
5.329	5.330	-0.001	304248	0.00186	0.6213		
Sum of Peak Concentrations =					0.6213		
8 Heptachlor						CAS #: 76-44-8	
5.656	5.656	0.000	139280	0.00179	0.5951		

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   10 Aldrin                                      CAS #: 309-00-2
6.184    6.186   -0.002          689555 0.00423    1.409
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.631	7.631	0.000	91232	0.00193	0.6421		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.931	7.932	-0.001	90491	0.00177	0.5886		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.243	8.243	0.000	98753	0.00188	0.6258		
15 Endosulfan I					CAS #: 959-98-8		
8.499	8.499	0.000	86076	0.00175	0.5833		
16 4,4'-DDE					CAS #: 72-55-9		
8.569	8.568	0.001	235325	0.00168	0.5589		
17 Dieldrin					CAS #: 60-57-1		
9.009	9.010	-0.001	262196	0.00179	0.5969		
18 Endrin					CAS #: 72-20-8		
9.434	9.434	0.000	105844	0.00194	0.6462		
20 4,4'-DDD					CAS #: 72-54-8		
9.746	9.746	0.000	197814	0.00188	0.6260		
22 Endosulfan II					CAS #: 33213-65-9		
9.854	9.854	0.000	101655	0.00195	0.6492		
23 4,4'-DDT					CAS #: 50-29-3		
10.233	10.234	-0.001	191754	0.00173	0.5770		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.607	10.609	-0.002	91878	0.00208	0.6918		
27 Methoxychlor					CAS #: 72-43-5		
11.130	11.130	0.000	107409	0.00202	0.6749		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.308	11.308	0.000	277244	0.00257	0.8574		
29 Endrin ketone					CAS #: 53494-70-5		
11.701	11.702	-0.001	123943	0.00199	0.6619		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.250	13.251	-0.001	124619	0.00224	0.02236		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\009F0901.D

Date : 07-JAN-2010 13:17

Client ID:

Instrument: a2hp9.i

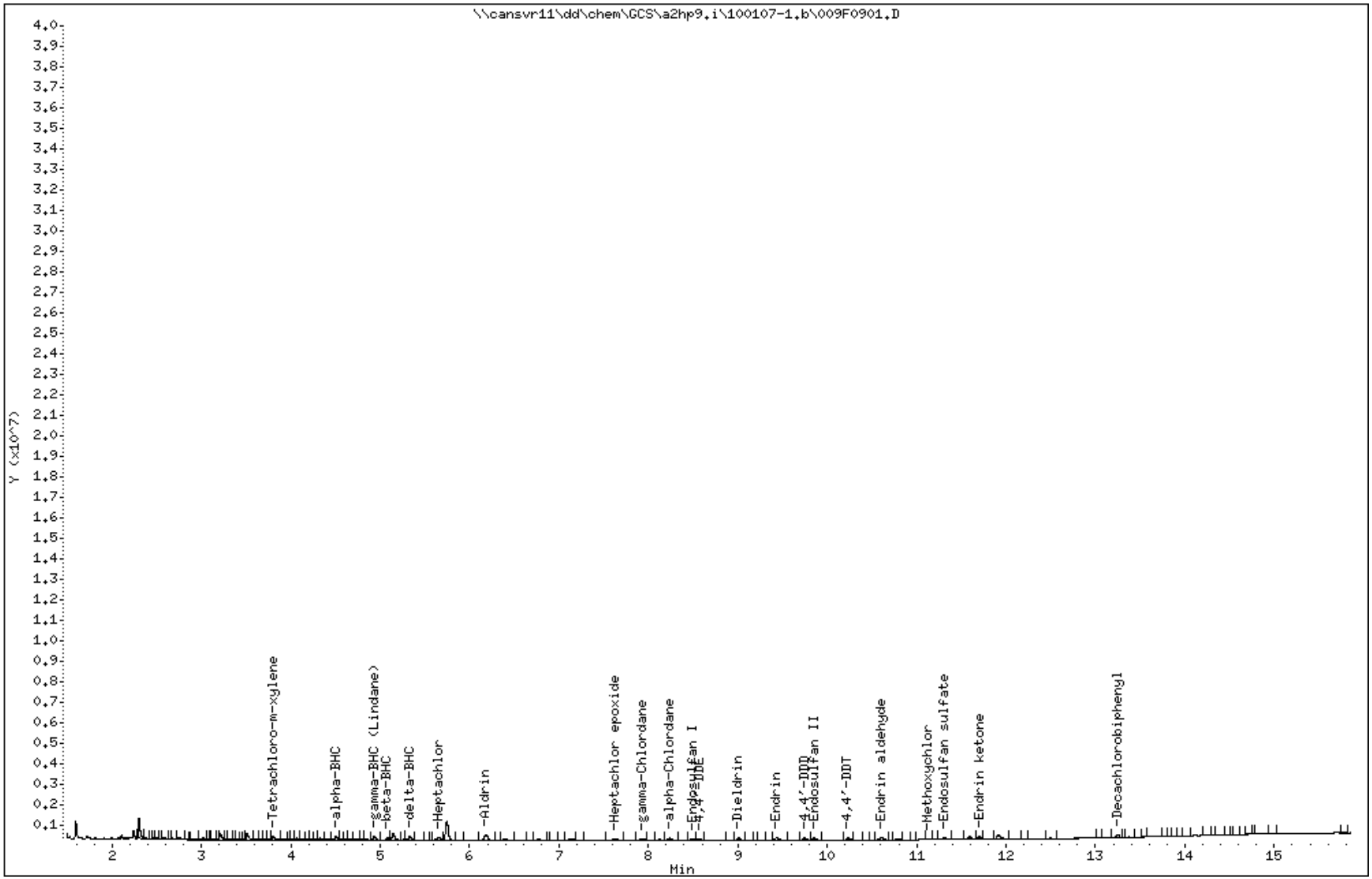
Sample Info: AB 0.2 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/009F0901.D
Lab Sample ID: AB 0.2 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.804	469225	0.004	0.041 ug/Kg
4) alpha-BHC	4.509	401053	0.002	0.712 ug/Kg
5) gamma-BHC (Lindane)	4.933	326880	0.002	0.643 ug/Kg
6) beta-BHC	5.082	160944	0.002	0.710 ug/Kg
7) delta-BHC	5.330	304248	0.002	0.621 ug/Kg
8) Heptachlor	5.657	324223	0.002	0.595 ug/Kg
10) Aldrin	6.184	689555	0.004	1.409 ug/Kg
12) Heptachlor epoxide	7.632	305092	0.002	0.642 ug/Kg
13) gamma-Chlordane	7.932	265281	0.002	0.589 ug/Kg
14) alpha-Chlordane	8.243	280665	0.002	0.626 ug/Kg
15) Endosulfan I	8.500	229950	0.002	0.583 ug/Kg
16) 4,4'-DDE	8.569	235325	0.002	0.559 ug/Kg
17) Dieldrin	9.010	262196	0.002	0.597 ug/Kg
18) Endrin	9.434	314359	0.002	0.646 ug/Kg
20) 4,4'-DDD	9.747	197814	0.002	0.626 ug/Kg
22) Endosulfan II	9.855	243878	0.002	0.649 ug/Kg
23) 4,4'-DDT	10.233	191754	0.002	0.577 ug/Kg
25) Endrin aldehyde	10.607	248090	0.002	0.692 ug/Kg
27) Methoxychlor	11.131	107409	0.002	0.675 ug/Kg
28) Endosulfan sulfate	11.308	277244	0.003	0.857 ug/Kg
29) Endrin ketone	11.702	246837	0.002	0.662 ug/Kg
30) Decachlorobiphenyl	13.251	260449	0.002	0.022 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

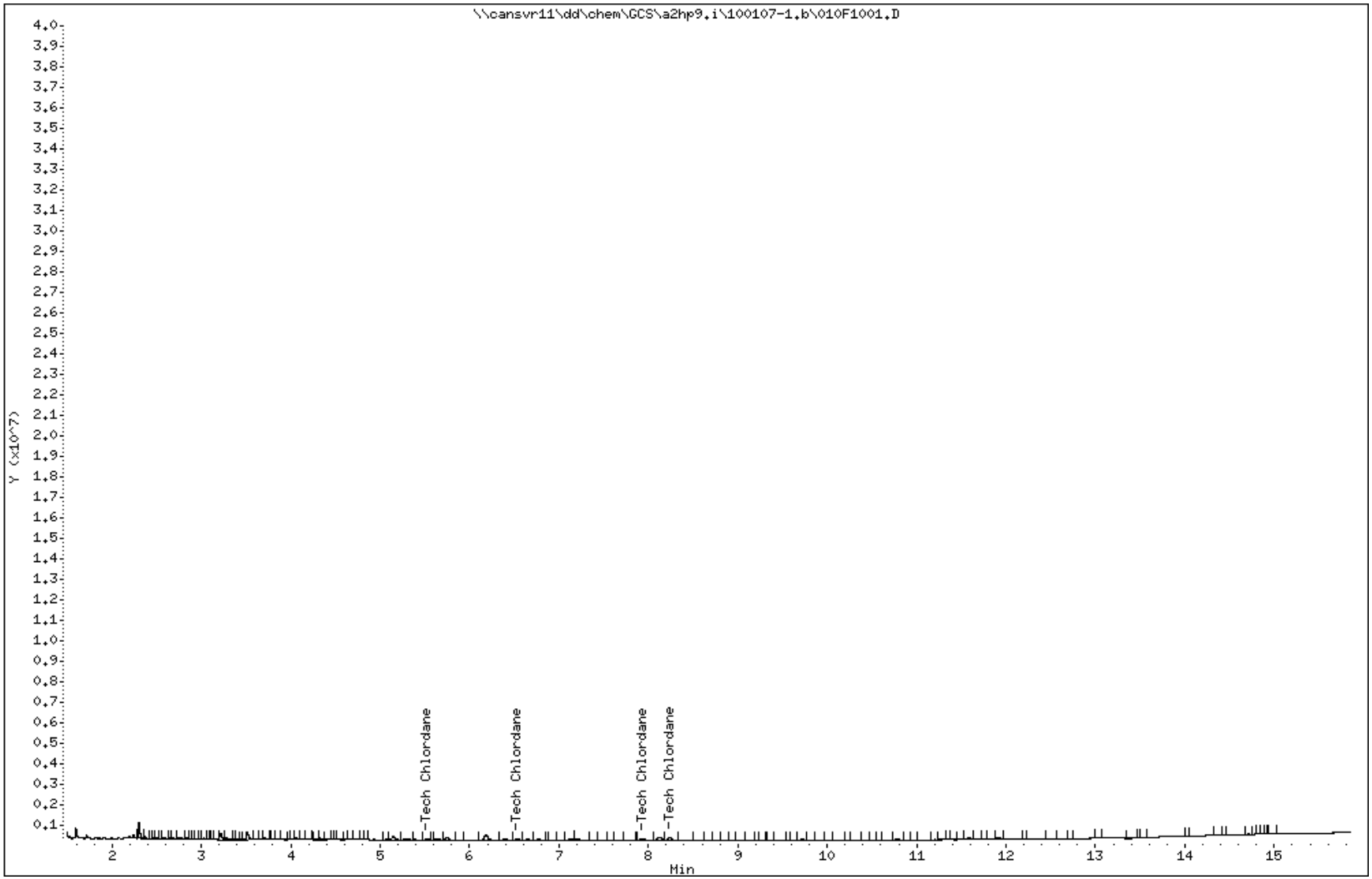
Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\010F1001.D
Lab Smp Id: TC SOLID MDL
Inj Date : 07-JAN-2010 13:42
Operator : 093905   Inst ID: a2hp9.i
Smp Info : TC SOLID MDL
Misc Info : SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 15-TECHLOR.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE		RATIO
RT	EXP RT	DLT RT	RESPONSE					
9 Tech Chlordane					CAS #: 57-74-9			
5.524	5.524	0.000	37726	0.01347	4.490	0.00-	20.00	100.00
6.530	6.529	0.001	40920	0.01627	5.423	0.00-	20.00	108.47
7.930	7.932	-0.002	69458	0.01245	4.151	0.00-	20.00	184.11
8.240	8.239	0.001	113512	0.01307	4.357	0.00-	20.00	300.89
		Average of Peak Concentrations =			4.605			

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\010F1001.D Page 1
Date : 07-JAN-2010 13:42
Client ID:
Instrument: a2hp9.i
Sample Info: TC SOLID MDL
Volume Injected (uL): 1.0
Operator: 093905
Column phase: clp pesticides I
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/010F1001.D
Lab Sample ID: TC SOLID MDL
Misc. Info: SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
9) Tech Chlordane	5.524	74444	0.013	4.490 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\012F1201.D
Lab Smp Id: MDL SOLID BLK
Inj Date : 07-JAN-2010 14:32
Operator : 093905   Inst ID: a2hp9.i
Smp Info : MDL SOLID BLK
Misc Info : SOLID MDL BLANK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 19-pestap9.sub
Target Version: 4.14   Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.792	3.805	-0.013	216281	0.00187	0.01873		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.286	4.285	0.001	47102	4e-004	0.1244		
	Average of Peak Concentrations =				0.1244		
3 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC						CAS #: 319-84-6	
4.496	4.508	-0.012	47898	3e-004	0.08501		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	

Peaks not detected for Quant. or Qual. signal(s).

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--------------------------------------------------------------------------------
    6 beta-BHC                                    CAS #: 319-85-7
5.072    5.081   -0.009           13017  3e-004   0.1075
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
5.311	5.330	-0.019	41823	3e-004	0.08540		
		Sum of Peak Concentrations =			0.08540		
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
5.527	5.524	0.003	6717	0.00240	0.7994	0.00- 20.00	100.00
6.544	6.529	0.015	12620	0.00502	1.672	0.00- 20.00	187.88
0.000	7.932	-7.932	0	0.0000	0.0000	0.00- 20.00	0.00
8.254	8.239	0.015	11332	0.00130	0.4350	0.00- 20.00	168.71
		Average of Peak Concentrations =			0.9690		
10 Aldrin					CAS #: 309-00-2		
6.181	6.186	-0.005	203877	0.00125	0.4166		
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.254	8.243	0.011	11332	2e-004	0.07182		
15 Endosulfan I					CAS #: 959-98-8		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.568	-0.027	44912	0.00032	0.1067		
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							
18 Endrin					CAS #: 72-20-8		

Peaks not detected for Quant. or Qual. signal(s).

19	Kepone				CAS #: 143-50-0	
9.482	9.491	-0.009		50247	0.09888	32.96

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

20 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 Toxaphene CAS #: 8001-35-2

0.000	9.975	-9.975	0	0.0000	0.0000	80.00- 120.00	0.00
0.000	10.407	-10.407	0	0.0000	0.0000	114.04- 154.04	0.00
10.575	10.554	0.021	10096	0.00684	2.279	115.64- 155.64	0.00
0.000	11.116	-11.116	0	0.0000	0.0000	52.78- 92.78	0.00
11.204	11.219	-0.015	5025	0.00266	0.8872	69.36- 109.36	0.00

Average of Peak Concentrations = 1.583

---

23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Mirex CAS #: 2385-85-5

10.788	10.813	-0.025	16702				

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

11.282	11.308	-0.026	26640	2e-004	0.08239		

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\012F1201.D

Date : 07-JAN-2010 14:32

Client ID:

Instrument: a2hp9.i

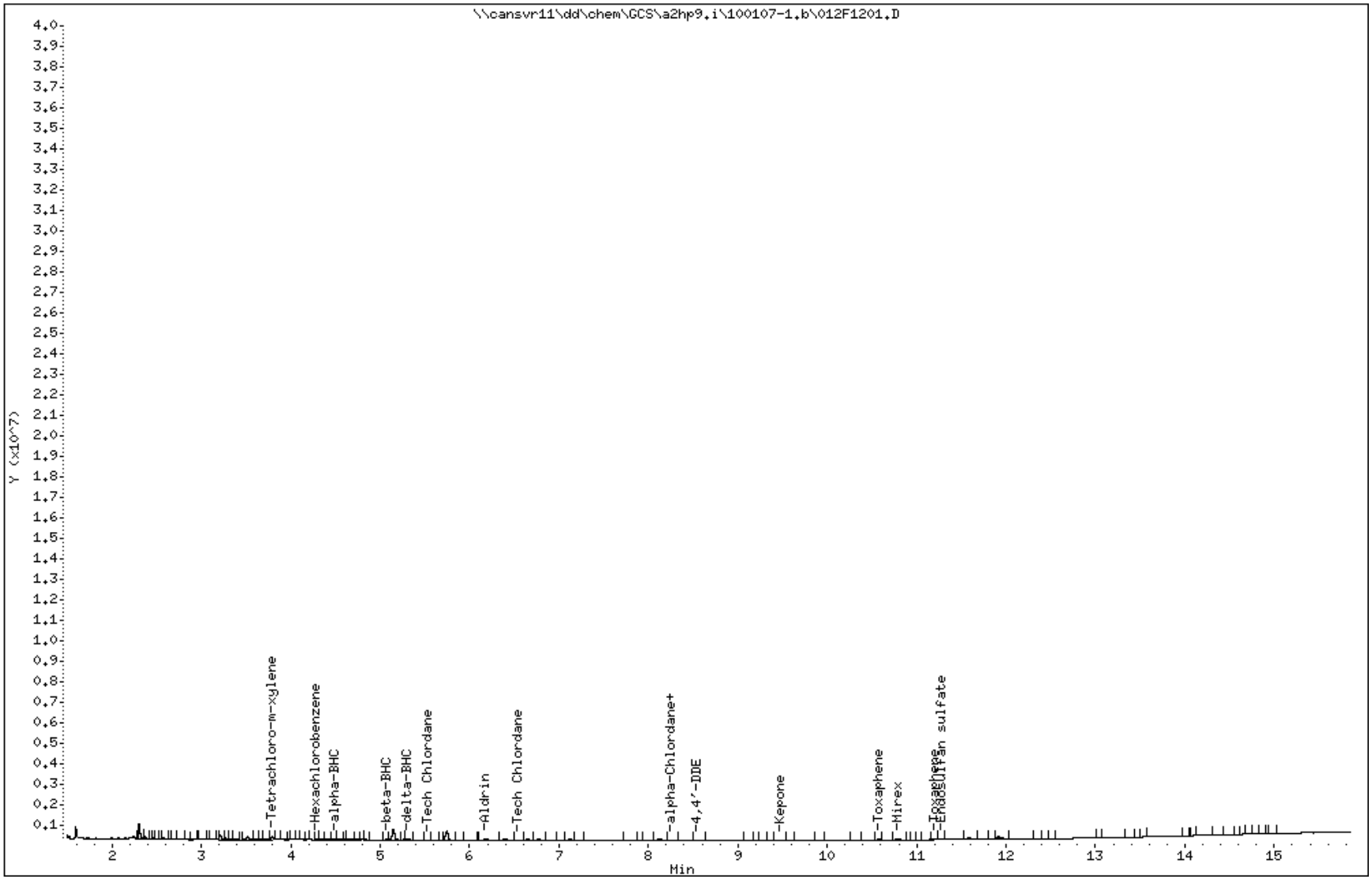
Sample Info: MDL SOLID BLK

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 14:32
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/012F1201.D
Lab Sample ID: MDL SOLID BLK
Misc. Info: SOLID MDL BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	0.000	0	0.000	0.000 ug/Kg
1) Tetrachloro-m-xylene	3.792	216281	0.002	0.000 ug/Kg
2) Hexachlorobenzene	4.287	87515	0.000	0.000 ug/Kg
3) Diallate	NOT DETECTED	Expected RT = 4.369		
4) alpha-BHC	4.497	47898	0.000	0.000 ug/Kg
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 4.933		
6) beta-BHC	5.072	31731	0.000	0.000 ug/Kg
7) delta-BHC	5.312	41823	0.000	0.000 ug/Kg
9) Tech Chlordane	5.527	14175	0.002	0.001 ug/Kg
8) Heptachlor	NOT DETECTED	Expected RT = 5.656		
10) Aldrin	6.182	203877	0.001	0.000 ug/Kg
11) Isodrin	NOT DETECTED	Expected RT = 6.883		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 7.631		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 7.932		
14) alpha-Chlordane	8.254	33736	0.000	0.000 ug/Kg
15) Endosulfan I	NOT DETECTED	Expected RT = 8.500		
16) 4,4'-DDE	8.542	44912	0.000	0.000 ug/Kg
17) Dieldrin	NOT DETECTED	Expected RT = 9.011		
18) Endrin	NOT DETECTED	Expected RT = 9.435		
19) Kepone	9.482	50247	0.099	0.033 ug/Kg
20) 4,4'-DDD	NOT DETECTED	Expected RT = 9.746		
21) Chlorobenzilate	NOT DETECTED	Expected RT = 9.834		
22) Endosulfan II	NOT DETECTED	Expected RT = 9.855		
23) 4,4'-DDT	NOT DETECTED	Expected RT = 10.235		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 10.610		
26) Mirex	10.788	54368	0.000	0.000 ug/Kg
27) Methoxychlor	NOT DETECTED	Expected RT = 11.131		
28) Endosulfan sulfate	11.282	26640	0.000	0.000 ug/Kg
29) Endrin ketone	NOT DETECTED	Expected RT = 11.702		
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 13.251		

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\009F0901.D
Lab Smp Id: TOX SOLID MDL
Inj Date : 14-JAN-2010 12:22
Operator : 093905   Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL
Misc Info : TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Meth Date : 15-Jan-2010 12:35 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 16-toxaph.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Toxaphene						CAS #: 8001-35-2	
9.971	9.971	0.000	55736	0.03318	11.06	80.00- 120.00	100.00(M)
10.404	10.403	0.001	50384	0.03145	10.48	114.04- 154.04	90.40
10.550	10.549	0.001	46785	0.03168	10.56	115.64- 155.64	83.94
11.111	11.113	-0.002	73349	0.03590	11.97	52.78- 92.78	131.60
11.215	11.214	0.001	60273	0.03193	10.64	69.36- 109.36	108.14
		Average of Peak Concentrations =			10.94		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\009F0901.D

Page 1

Date : 14-JAN-2010 12:22

Client ID:

Instrument: a2hp9.i

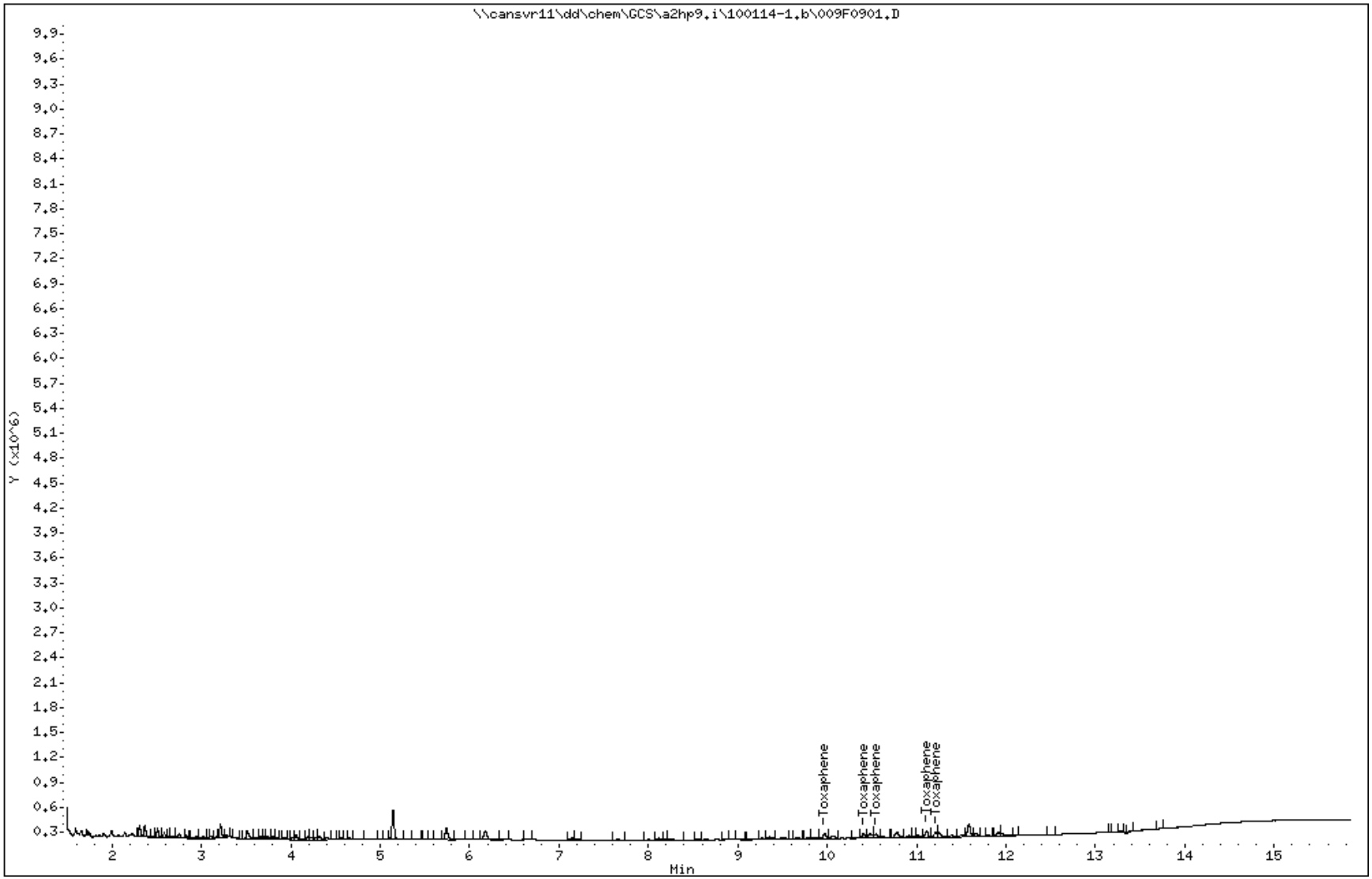
Sample Info: TOX SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

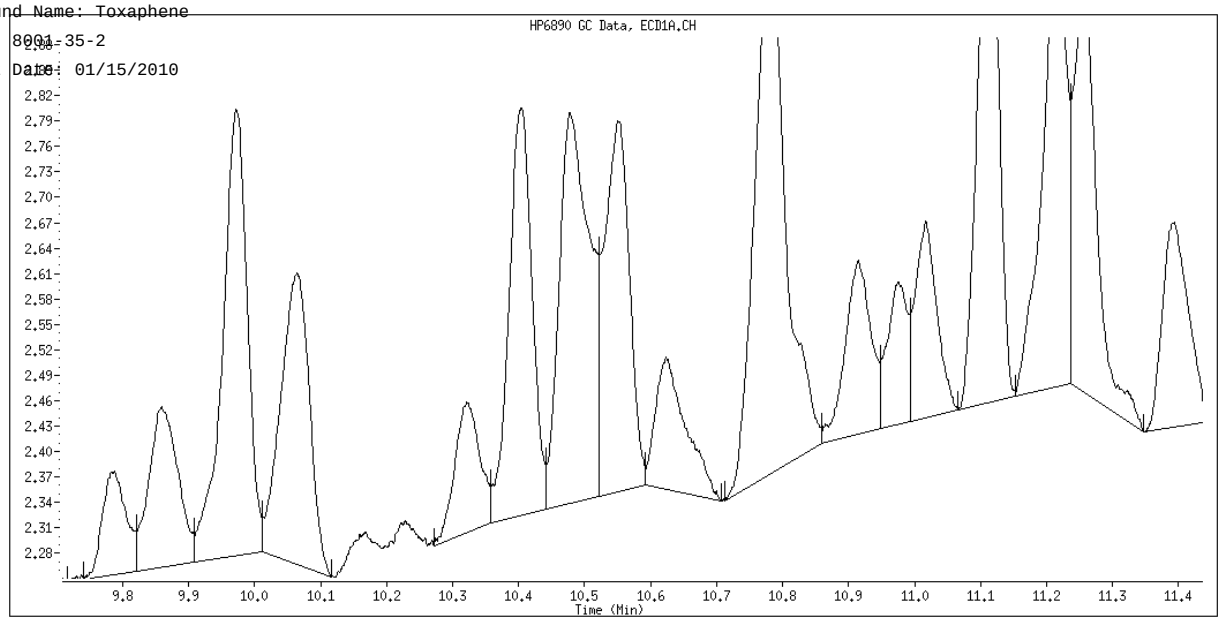


COMPOUNDS and EXP. RT REPORT

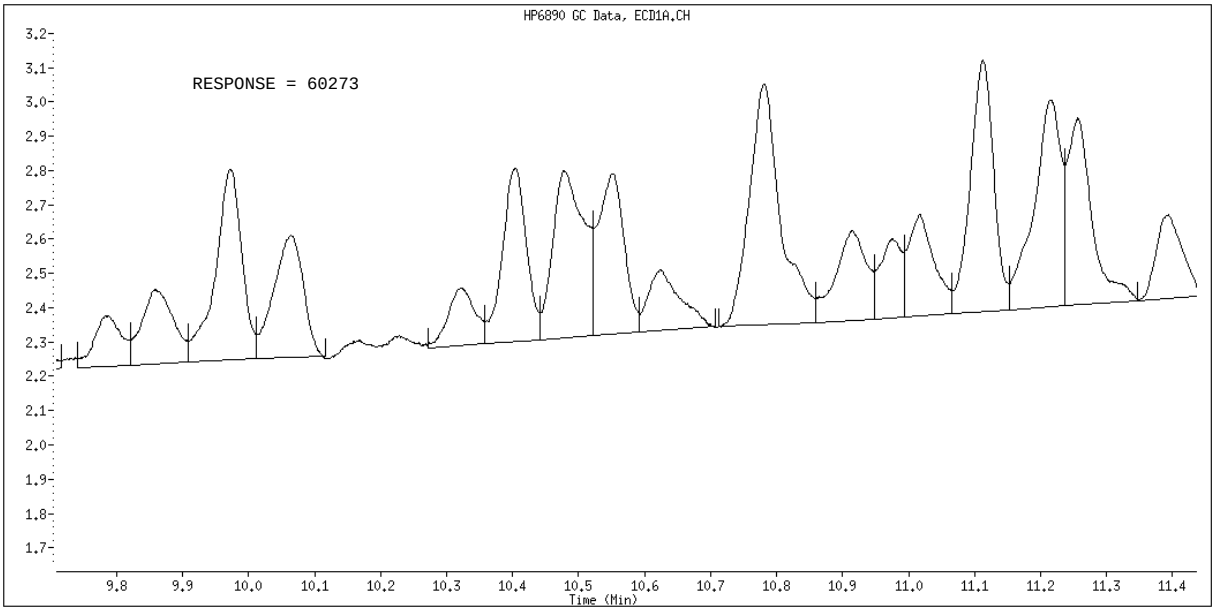
Operator: 093905 Date Acquired: 14-JAN-2010 12:22
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/009F0901.D
Lab Sample ID: TOX SOLID MDL
Misc. Info: TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.972	156128	0.033	11.061 ug/Kg

Data File Name: 009F0901.D
Inj. Date and Time: 14-JAN-2010 12:22
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\010F1001.D
Lab Smp Id: TOX SOLID MDL BL
Inj Date : 14-JAN-2010 12:46
Operator : 093905   Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL BL
Misc Info : TOX SOLID MDL VERIFICATION BLANK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Meth Date : 15-Jan-2010 12:35 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 19-pestap9.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.791	3.803	-0.012	111179	1e-003	0.009626		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.283	4.285	-0.002	37493	3.e-004	0.09905		
		Average of Peak Concentrations =			0.09905		
3 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC						CAS #: 319-84-6	
4.532	4.505	0.027	141424	8e-004	0.2510		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.954	4.929	0.025	10581	6e-005	0.02083		

```
    6 beta-BHC                                    CAS #: 319-85-7
5.067    5.078   -0.011           8471 0.00021  0.06996
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
5.308	5.326	-0.018	68014	4e-004	0.1389		
		Sum of Peak Concentrations =			0.1389		
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
5.521	5.520	0.001	5404	0.00193	0.6432	0.00- 20.00	100.00
0.000	6.524	-6.524	0	0.0000	0.0000	0.00- 20.00	0.00
0.000	7.926	-7.926	0	0.0000	0.0000	0.00- 20.00	0.00
8.249	8.235	0.014	26068	0.00300	1.001	0.00- 20.00	482.38
		Average of Peak Concentrations =			0.8219		
10 Aldrin					CAS #: 309-00-2		
6.176	6.180	-0.004	511270	0.00313	1.045		
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.249	8.236	0.013	26068	5.e-004	0.1652		
15 Endosulfan I					CAS #: 959-98-8		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
Peaks not detected for Quant. or Qual. signal(s).							
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							

```
--------------------------------------------------------------------------------
   18 Endrin                                     CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

--------------------------------------------------------------------------------
   19 Kepone                                     CAS #: 143-50-0
9.478    9.491   -0.013           39380 0.09848    32.83
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

20 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 Toxaphene CAS #: 8001-35-2

Operator disabled compound identification.

---

23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

10.629	10.603	0.026		6189	0.00014	0.04660	

---

26 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

11.275	11.303	-0.028		42261	4e-004	0.1307	

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\010F1001.D

Date : 14-JAN-2010 12:46

Client ID:

Instrument: a2hp9.i

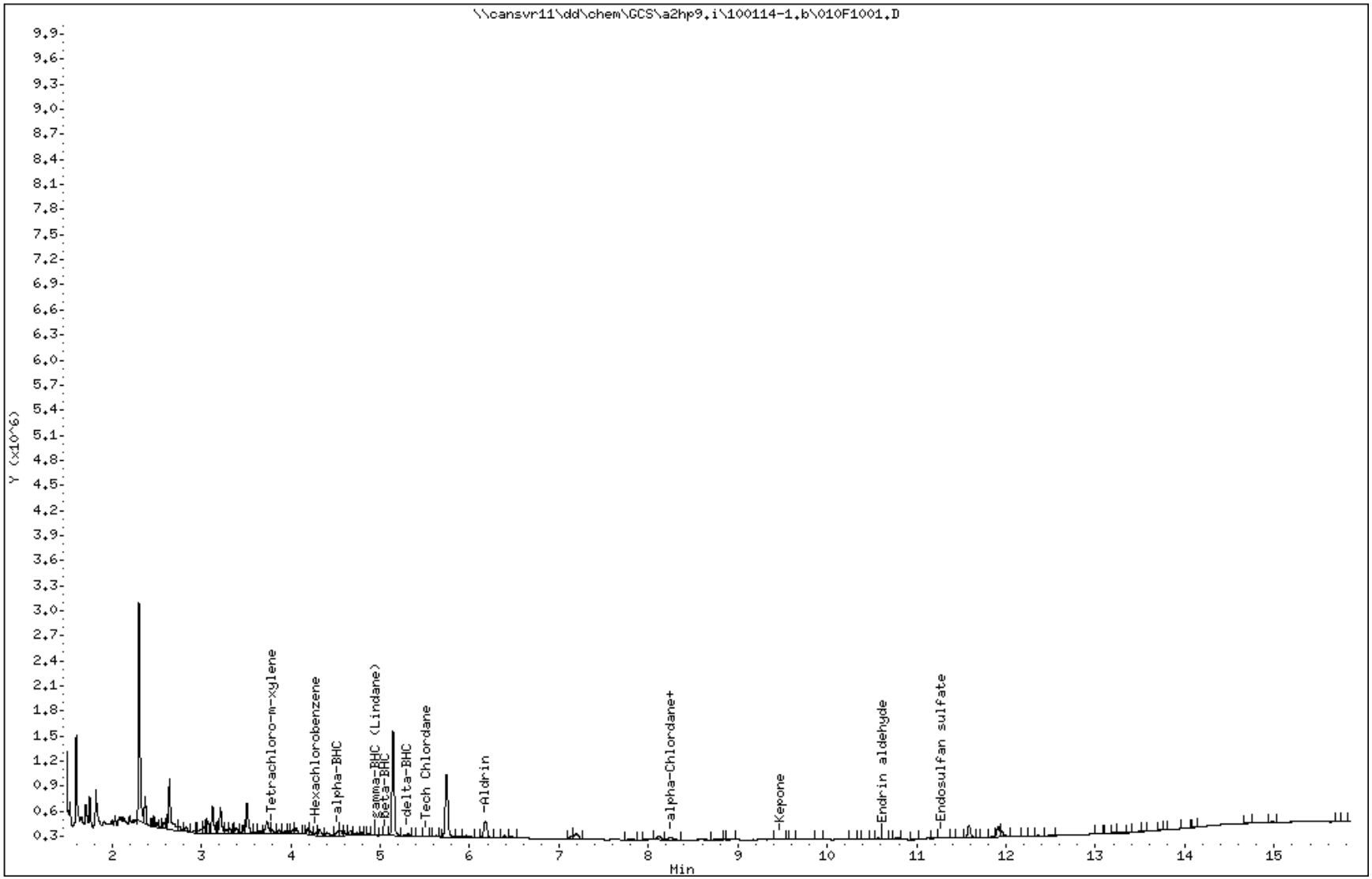
Sample Info: TOX SOLID MDL BL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 14-JAN-2010 12:46
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/010F1001.D
Lab Sample ID: TOX SOLID MDL BL
Misc. Info: TOX SOLID MDL VERIFICATION BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	3.791	111179	0.001	0.010 ug/Kg
2)	Hexachlorobenzene	4.284	67093	0.000	0.099 ug/Kg
3)	Diallate	NOT DETECTED	Expected RT = 4.369		
4)	alpha-BHC	4.533	141424	0.001	0.251 ug/Kg
5)	gamma-BHC (Lindane)	4.955	10581	0.000	0.021 ug/Kg
6)	beta-BHC	5.067	15991	0.000	0.070 ug/Kg
7)	delta-BHC	5.309	68014	0.000	0.139 ug/Kg
9)	Tech Chlordane	5.521	11995	0.002	0.643 ug/Kg
8)	Heptachlor	NOT DETECTED	Expected RT = 5.651		
10)	Aldrin	6.176	511270	0.003	1.045 ug/Kg
11)	Isodrin	NOT DETECTED	Expected RT = 6.883		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 7.623		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 7.925		
14)	alpha-Chlordane	8.250	88403	0.000	0.165 ug/Kg
15)	Endosulfan I	NOT DETECTED	Expected RT = 8.491		
16)	4,4'-DDE	NOT DETECTED	Expected RT = 8.564		
17)	Dieldrin	NOT DETECTED	Expected RT = 9.004		
18)	Endrin	NOT DETECTED	Expected RT = 9.429		
19)	Kepone	9.479	39380	0.098	32.827 ug/Kg
20)	4,4'-DDD	NOT DETECTED	Expected RT = 9.742		
21)	Chlorobenzilate	NOT DETECTED	Expected RT = 9.834		
22)	Endosulfan II	NOT DETECTED	Expected RT = 9.849		
24)	Toxaphene	NOT DETECTED	Expected RT = 9.971		
23)	4,4'-DDT	NOT DETECTED	Expected RT = 10.229		
25)	Endrin aldehyde	10.630	14883	0.000	0.047 ug/Kg
26)	Mirex	NOT DETECTED	Expected RT = 10.814		
27)	Methoxychlor	NOT DETECTED	Expected RT = 11.126		
28)	Endosulfan sulfate	11.275	42261	0.000	0.131 ug/Kg
29)	Endrin ketone	NOT DETECTED	Expected RT = 11.696		
30)	Decachlorobiphenyl	NOT DETECTED	Expected RT = 13.247		

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\007F0701.D
Lab Smp Id: AB 1 SOLID MDL
Inj Date : 07-JAN-2010 12:27
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB 1 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.416	4.415	0.001	456178	0.00893	0.08933		
4 alpha-BHC					CAS #: 319-84-6		
5.357	5.357	0.000	522749	0.00864	2.880		(M)
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
6.031	6.028	0.003	883052	0.00911	3.037		
6 beta-BHC					CAS #: 319-85-7		
6.241	6.239	0.002	459323	0.01069	3.564		
7 delta-BHC					CAS #: 319-86-8		
6.917	6.915	0.002	854721	0.00912	3.041		
8 Heptachlor					CAS #: 76-44-8		
7.034	7.031	0.003	1111979	0.01264	4.212		

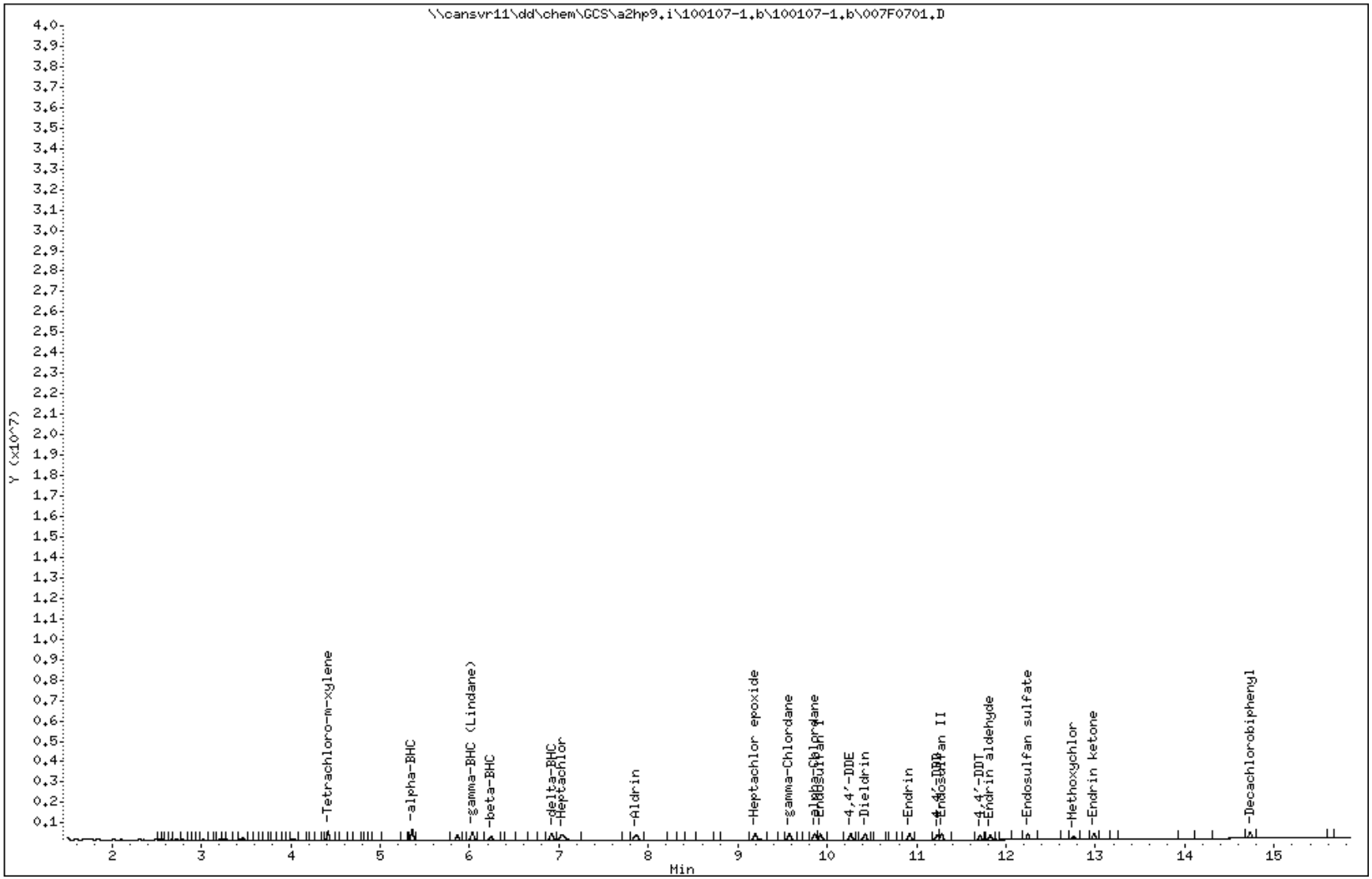
```
   10 Aldrin                                      CAS #: 309-00-2
7.862    7.861    0.001          273687 0.00879    2.931
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.194	9.193	0.001	858591	0.01076	3.586		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.576	9.575	0.001	732828	0.00921	3.071		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.859	9.858	0.001	713996	0.00932	3.106		
15 Endosulfan I					CAS #: 959-98-8		
9.925	9.924	0.001	671990	0.00942	3.139		
16 4,4'-DDE					CAS #: 72-55-9		
10.262	10.261	0.001	642002	0.00893	2.976		
17 Dieldrin					CAS #: 60-57-1		
10.422	10.420	0.002	303906	0.00907	3.022		
18 Endrin					CAS #: 72-20-8		
10.921	10.920	0.001	289303	0.00935	3.116		
21 4,4'-DDD					CAS #: 72-54-8		
11.229	11.228	0.001	483749	0.00994	3.313		
22 Endosulfan II					CAS #: 33213-65-9		
11.280	11.278	0.002	289326	0.00979	3.262		
24 4,4'-DDT					CAS #: 50-29-3		
11.709	11.708	0.001	422325	0.00927	3.089		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.822	11.823	-0.001	244197	0.01001	3.338		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.243	12.242	0.001	270519	0.01047	3.491		
27 Methoxychlor					CAS #: 72-43-5		
12.754	12.753	0.001	278685	0.01279	4.263		
29 Endrin ketone					CAS #: 53494-70-5		
12.983	12.982	0.001	316028	0.00995	3.315		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.729	14.728	0.001	601764	0.01022	0.1022		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\007F0701.D Page 1
Date : 07-JAN-2010 12:27
Client ID: Instrument: a2hp9.i
Sample Info: AB 1 SOLID MDL
Volume Injected (uL): 1.0 Operator: 093905
Column phase: clp pesticides II Column diameter: 0.53

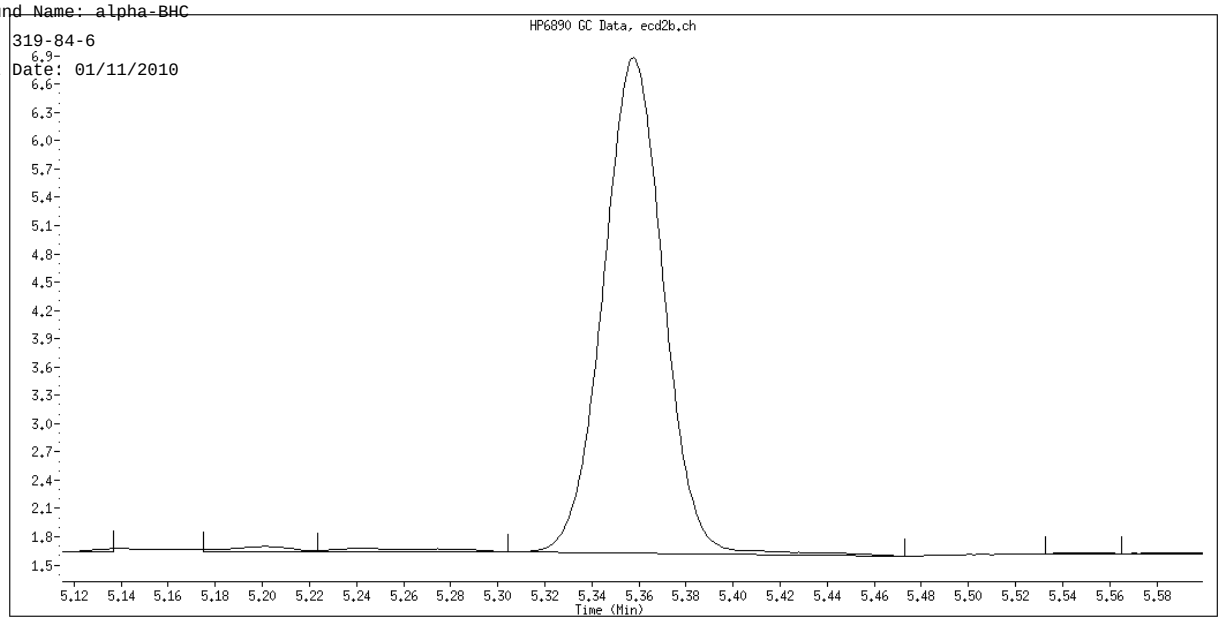


COMPOUNDS and EXP. RT REPORT

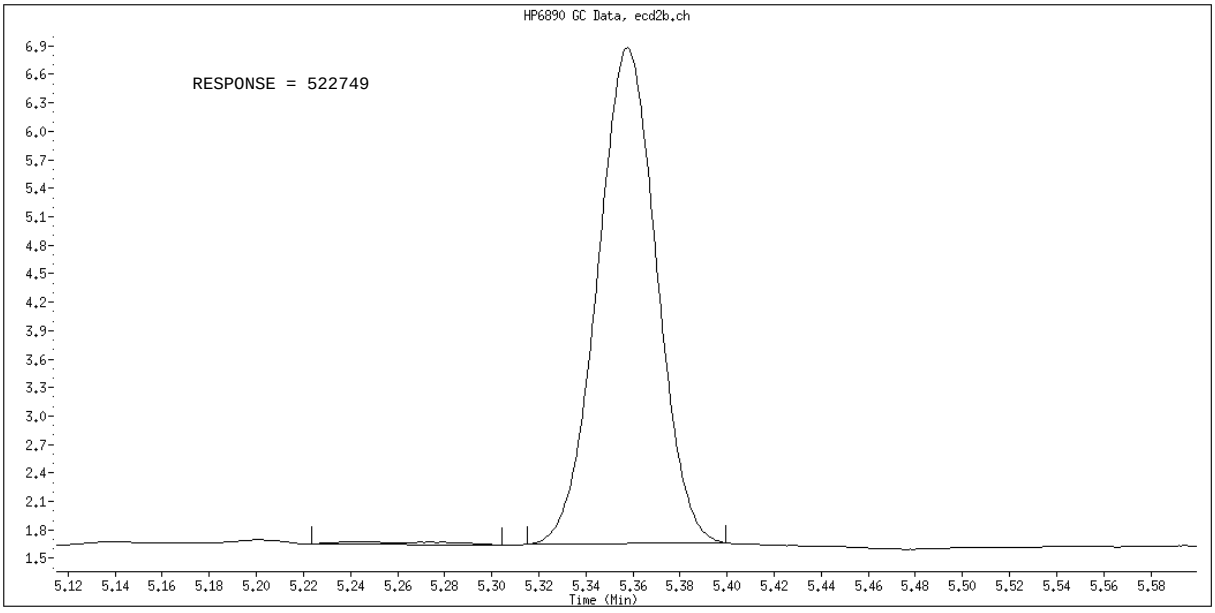
Operator: 093905 Date Acquired: 07-JAN-2010 12:27
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/007F0701.D
Lab Sample ID: AB 1 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.416	658444	0.009	0.089 ug/Kg
4) alpha-BHC	5.358	912078	0.009	2.880 ug/Kg
5) gamma-BHC (Lindane)	6.031	883052	0.009	3.037 ug/Kg
6) beta-BHC	6.241	459323	0.011	3.564 ug/Kg
7) delta-BHC	6.918	854721	0.009	3.041 ug/Kg
8) Heptachlor	7.034	1111979	0.013	4.212 ug/Kg
10) Aldrin	7.863	818431	0.009	2.931 ug/Kg
12) Heptachlor epoxide	9.194	858591	0.011	3.586 ug/Kg
13) gamma-Chlordane	9.576	732828	0.009	3.071 ug/Kg
14) alpha-Chlordane	9.859	713996	0.009	3.106 ug/Kg
15) Endosulfan I	9.925	671990	0.009	3.139 ug/Kg
16) 4,4'-DDE	10.263	642002	0.009	2.976 ug/Kg
17) Dieldrin	10.423	678890	0.009	3.022 ug/Kg
18) Endrin	10.921	619403	0.009	3.116 ug/Kg
21) 4,4'-DDD	11.229	483749	0.010	3.313 ug/Kg
22) Endosulfan II	11.280	618396	0.010	3.262 ug/Kg
24) 4,4'-DDT	11.709	422325	0.009	3.089 ug/Kg
25) Endrin aldehyde	11.823	490522	0.010	3.338 ug/Kg
26) Endosulfan sulfate	12.244	552152	0.010	3.491 ug/Kg
27) Methoxychlor	12.754	278685	0.013	4.263 ug/Kg
29) Endrin ketone	12.984	608447	0.010	3.315 ug/Kg
30) Decachlorobiphenyl	14.729	601764	0.010	0.102 ug/Kg

Data File Name: 007F0701.D
Inj. Date and Time: 07-JAN-2010 12:27
Instrument ID: a2hp9.i
Client ID:
Compound Name: alpha-BHC
CAS #: 319-84-6
Report Date: 01/11/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\008F0801.D
Lab Smp Id: AB 0.4 SOLID MDL
Inj Date : 07-JAN-2010 12:52
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB 0.4 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.412	4.415	-0.003	215321	0.00422	0.04217		
4 alpha-BHC						CAS #: 319-84-6	
5.357	5.357	0.000	181250	0.00300	0.9986		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.030	6.028	0.002	359272	0.00371	1.236		
6 beta-BHC						CAS #: 319-85-7	
6.241	6.239	0.002	240367	0.00560	1.865		
7 delta-BHC						CAS #: 319-86-8	
6.915	6.915	0.000	311830	0.00333	1.109		
8 Heptachlor						CAS #: 76-44-8	
7.042	7.031	0.011	641042	0.00728	2.428		

```
   10 Aldrin                                      CAS #: 309-00-2
7.861    7.861    0.000           98928 0.00318    1.060
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.193	9.193	0.000	290920	0.00365	1.215		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.574	9.575	-0.001	301090	0.00379	1.262		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.859	9.858	0.001	279349	0.00365	1.215		
15 Endosulfan I					CAS #: 959-98-8		
9.924	9.924	0.000	263818	0.00370	1.232		
16 4,4'-DDE					CAS #: 72-55-9		
10.261	10.261	0.000	243923	0.00339	1.130		
17 Dieldrin					CAS #: 60-57-1		
10.420	10.420	0.000	112391	0.00335	1.118		
18 Endrin					CAS #: 72-20-8		
10.920	10.920	0.000	108594	0.00351	1.170		
21 4,4'-DDD					CAS #: 72-54-8		
11.228	11.228	0.000	184095	0.00378	1.261		
22 Endosulfan II					CAS #: 33213-65-9		
11.279	11.278	0.001	111094	0.00376	1.253		
24 4,4'-DDT					CAS #: 50-29-3		
11.709	11.708	0.001	143828	0.00316	1.052		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.822	11.823	-0.001	95927	0.00393	1.311		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.242	12.242	0.000	105645	0.00409	1.363		
27 Methoxychlor					CAS #: 72-43-5		
12.754	12.753	0.001	136990	0.00629	2.096		
29 Endrin ketone					CAS #: 53494-70-5		
12.981	12.982	-0.001	127193	0.00400	1.334		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.728	14.728	0.000	231235	0.00393	0.03926		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\008F0801.D

Date : 07-JAN-2010 12:52

Client ID:

Instrument: a2hp9.i

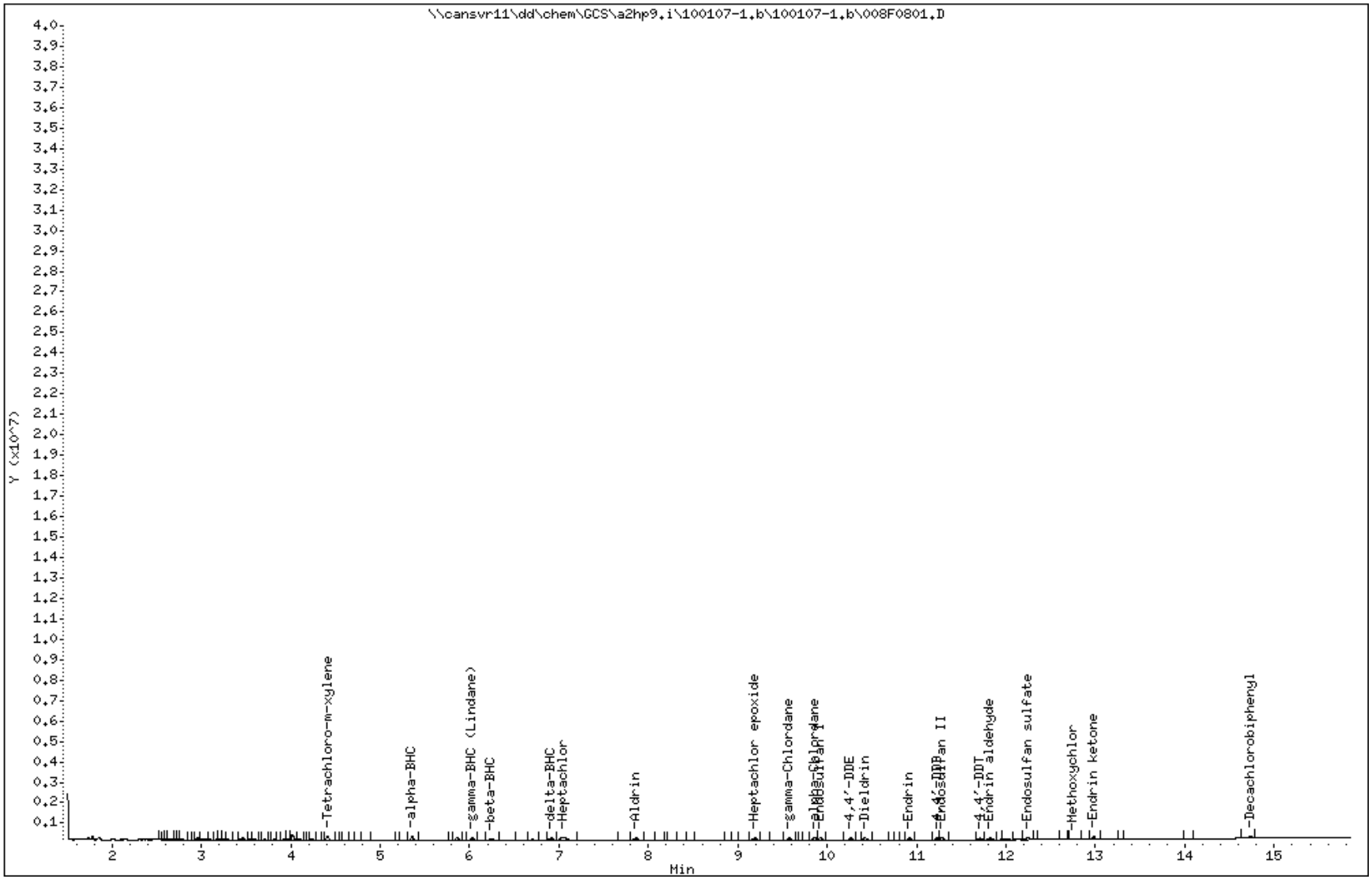
Sample Info: AB 0.4 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:52
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/008F0801.D
Lab Sample ID: AB 0.4 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.412	396824	0.004	0.042 ug/Kg
4)	alpha-BHC	5.357	328144	0.003	0.999 ug/Kg
5)	gamma-BHC (Lindane)	6.031	359272	0.004	1.236 ug/Kg
6)	beta-BHC	6.242	240367	0.006	1.865 ug/Kg
7)	delta-BHC	6.916	311830	0.003	1.109 ug/Kg
8)	Heptachlor	7.042	641042	0.007	2.428 ug/Kg
10)	Aldrin	7.862	313184	0.003	1.060 ug/Kg
12)	Heptachlor epoxide	9.193	290920	0.004	1.215 ug/Kg
13)	gamma-Chlordane	9.575	301090	0.004	1.262 ug/Kg
14)	alpha-Chlordane	9.859	279349	0.004	1.215 ug/Kg
15)	Endosulfan I	9.925	263818	0.004	1.232 ug/Kg
16)	4,4'-DDE	10.262	243923	0.003	1.131 ug/Kg
17)	Dieldrin	10.421	256088	0.003	1.118 ug/Kg
18)	Endrin	10.921	236232	0.004	1.170 ug/Kg
21)	4,4'-DDD	11.228	184095	0.004	1.261 ug/Kg
22)	Endosulfan II	11.280	237756	0.004	1.253 ug/Kg
24)	4,4'-DDT	11.710	143828	0.003	1.052 ug/Kg
25)	Endrin aldehyde	11.822	201484	0.004	1.311 ug/Kg
26)	Endosulfan sulfate	12.242	217669	0.004	1.363 ug/Kg
27)	Methoxychlor	12.754	136990	0.006	2.096 ug/Kg
29)	Endrin ketone	12.982	252292	0.004	1.334 ug/Kg
30)	Decachlorobiphenyl	14.728	231235	0.004	0.039 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\009F0901.D
Lab Smp Id: AB 0.2 SOLID MDL
Inj Date : 07-JAN-2010 13:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB 0.2 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.413	4.415	-0.002	107249	0.00210	0.02100		
4 alpha-BHC						CAS #: 319-84-6	
5.357	5.357	0.000	95605	0.00158	0.5267		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.029	6.028	0.001	198574	0.00205	0.6829		
6 beta-BHC						CAS #: 319-85-7	
6.240	6.239	0.001	170577	0.00397	1.324		
7 delta-BHC						CAS #: 319-86-8	
6.915	6.915	0.000	173603	0.00185	0.6177		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO	
8 Heptachlor						CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).								
10 Aldrin						CAS #: 309-00-2		
7.862	7.861	0.001	55184	0.00177	0.5911			
12 Heptachlor epoxide						CAS #: 1024-57-3		
9.193	9.193	0.000	172218	0.00216	0.7193			
13 gamma-Chlordane						CAS #: 5103-74-2		
9.574	9.575	-0.001	167907	0.00211	0.7037			
14 alpha-Chlordane						CAS #: 5103-71-9		
9.858	9.858	0.000	157026	0.00205	0.6832			
15 Endosulfan I						CAS #: 959-98-8		
9.924	9.924	0.000	154816	0.00217	0.7231			
16 4,4'-DDE						CAS #: 72-55-9		
10.261	10.261	0.000	146965	0.00204	0.6812			
17 Dieldrin						CAS #: 60-57-1		
10.421	10.420	0.001	64392	0.00192	0.6403			
18 Endrin						CAS #: 72-20-8		
10.919	10.920	-0.001	63556	0.00205	0.6846			
21 4,4'-DDD						CAS #: 72-54-8		
11.227	11.228	-0.001	96620	0.00199	0.6618			
22 Endosulfan II						CAS #: 33213-65-9		
11.278	11.278	0.000	59781	0.00202	0.6741			
24 4,4'-DDT						CAS #: 50-29-3		
11.709	11.708	0.001	87177	0.00191	0.6377			
25 Endrin aldehyde						CAS #: 7421-93-4		
11.822	11.823	-0.001	54847	0.00225	0.7497			
26 Endosulfan sulfate						CAS #: 1031-07-8		
12.243	12.242	0.001	58401	0.00226	0.7536			
27 Methoxychlor						CAS #: 72-43-5		
12.753	12.753	0.000	55800	0.00256	0.8536			(M)
29 Endrin ketone						CAS #: 53494-70-5		
12.979	12.982	-0.003	73049	0.00230	0.7663			
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3		

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QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\009F0901.D

Date : 07-JAN-2010 13:17

Client ID:

Instrument: a2hp9.i

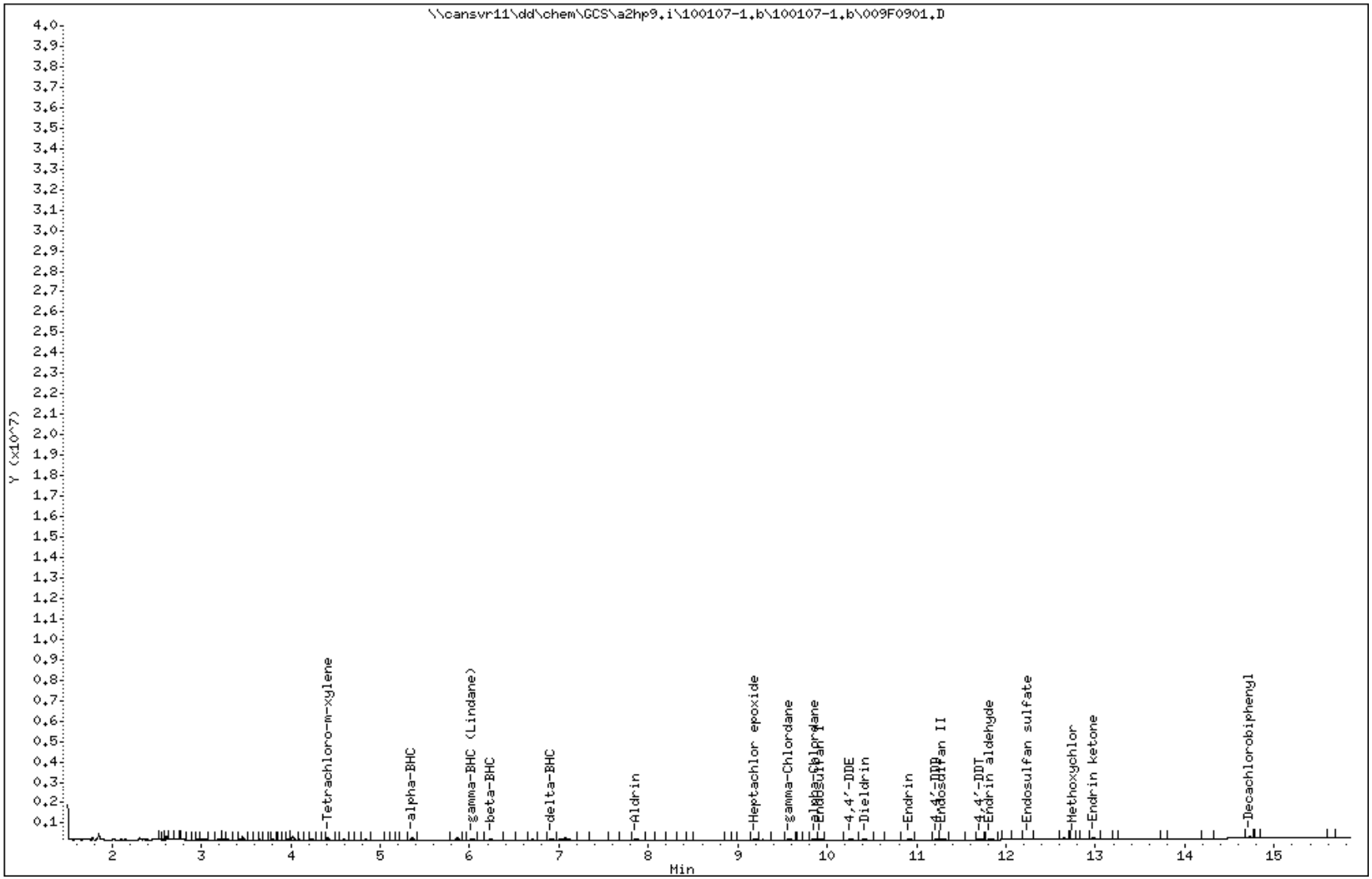
Sample Info: AB 0.2 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

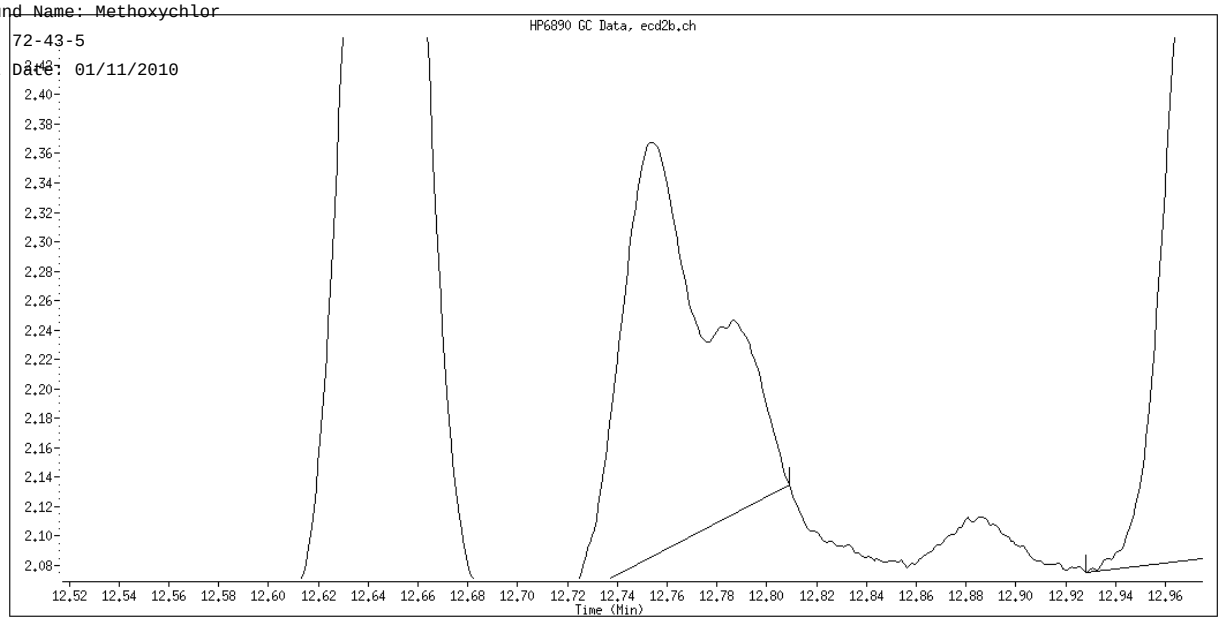


COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/009F0901.D
Lab Sample ID: AB 0.2 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.413	202210	0.002	0.021 ug/Kg
4) alpha-BHC	5.357	186032	0.002	0.527 ug/Kg
5) gamma-BHC (Lindane)	6.030	198574	0.002	0.683 ug/Kg
6) beta-BHC	6.241	170577	0.004	1.324 ug/Kg
7) delta-BHC	6.916	173603	0.002	0.618 ug/Kg
8) Heptachlor	NOT DETECTED Expected RT = 7.031			
10) Aldrin	7.862	171429	0.002	0.591 ug/Kg
12) Heptachlor epoxide	9.193	172218	0.002	0.719 ug/Kg
13) gamma-Chlordane	9.575	167907	0.002	0.704 ug/Kg
14) alpha-Chlordane	9.858	157026	0.002	0.683 ug/Kg
15) Endosulfan I	9.924	154816	0.002	0.723 ug/Kg
16) 4,4'-DDE	10.262	146965	0.002	0.681 ug/Kg
17) Dieldrin	10.422	157390	0.002	0.640 ug/Kg
18) Endrin	10.920	140373	0.002	0.685 ug/Kg
21) 4,4'-DDD	11.227	96620	0.002	0.662 ug/Kg
22) Endosulfan II	11.278	127651	0.002	0.674 ug/Kg
24) 4,4'-DDT	11.710	87177	0.002	0.638 ug/Kg
25) Endrin aldehyde	11.822	113544	0.002	0.750 ug/Kg
26) Endosulfan sulfate	12.243	125096	0.002	0.754 ug/Kg
27) Methoxychlor	12.753	55800	0.003	0.854 ug/Kg
29) Endrin ketone	12.980	154864	0.002	0.766 ug/Kg
30) Decachlorobiphenyl	14.727	130077	0.002	0.022 ug/Kg

Data File Name: 009F0901.D
Inj. Date and Time: 07-JAN-2010 13:17
Instrument ID: a2hp9.i
Client ID:
Compound Name: Methoxychlor
CAS #: 72-43-5
Report Date: 01/11/2010



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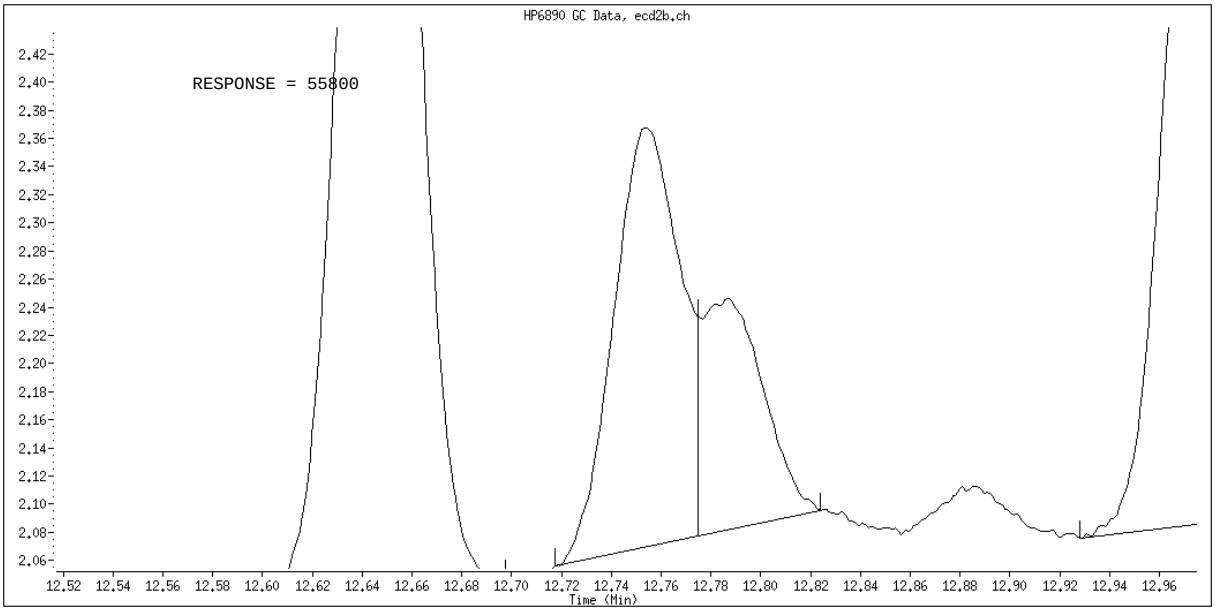


Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\010F1001.D
Lab Smp Id: TC SOLID MDL
Inj Date : 07-JAN-2010 13:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TC SOLID MDL
Misc Info : SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 15-TECHLOR.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

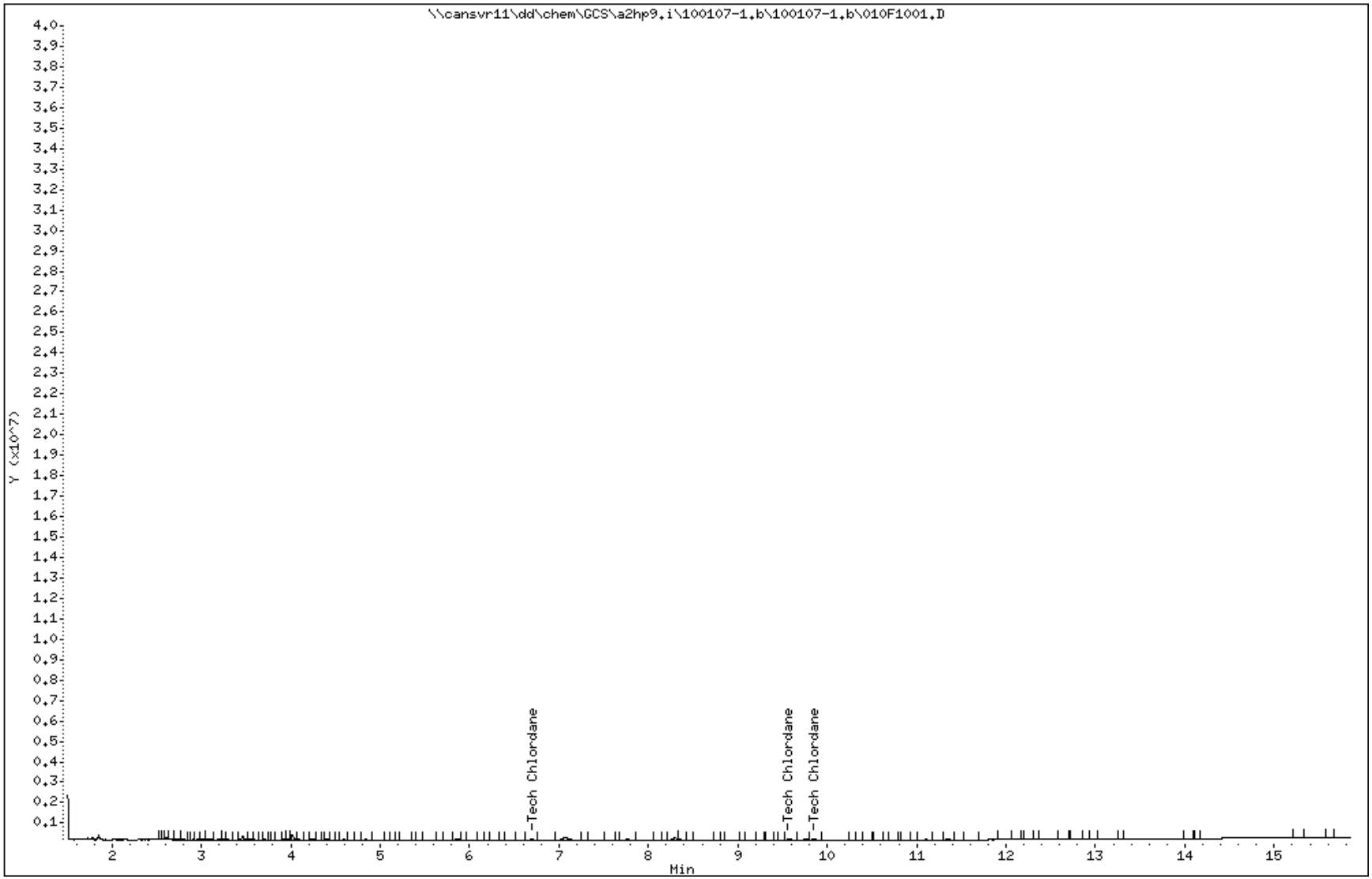
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE		RATIO
9 Tech Chlordane					CAS #: 57-74-9			
6.704	6.671	0.033	34043	0.02786	9.288	0.00-	20.00	100.00(M)
8.305	8.305	0.000	0	0.0000	0.0000	0.00-	20.00	0.00
9.571	9.573	-0.002	54042	0.01389	4.631	0.00-	20.00	158.75
9.856	9.858	-0.002	40686	0.01245	4.149	0.00-	20.00	119.51
Average of Peak Concentrations =					6.023			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\010F1001.D Page 1
Date : 07-JAN-2010 13:42
Client ID:
Sample Info: TC SOLID MDL
Volume Injected (uL): 1.0
Column phase: clp pesticides II
Instrument: a2hp9.i
Operator: 093905
Column diameter: 0.53

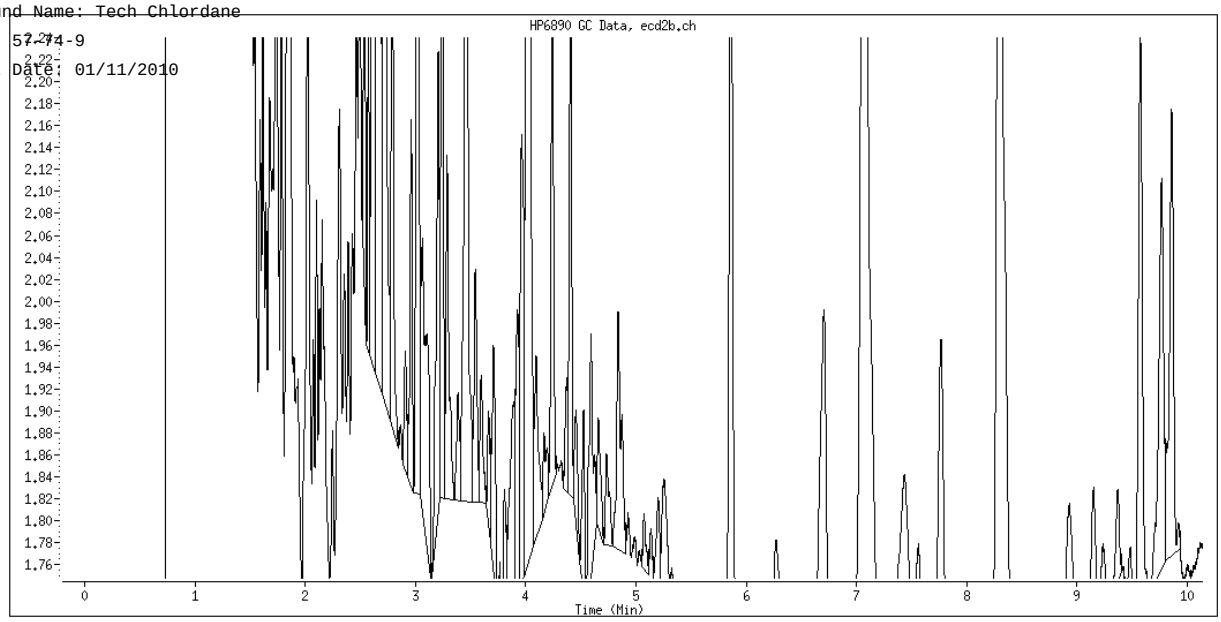


COMPOUNDS and EXP. RT REPORT

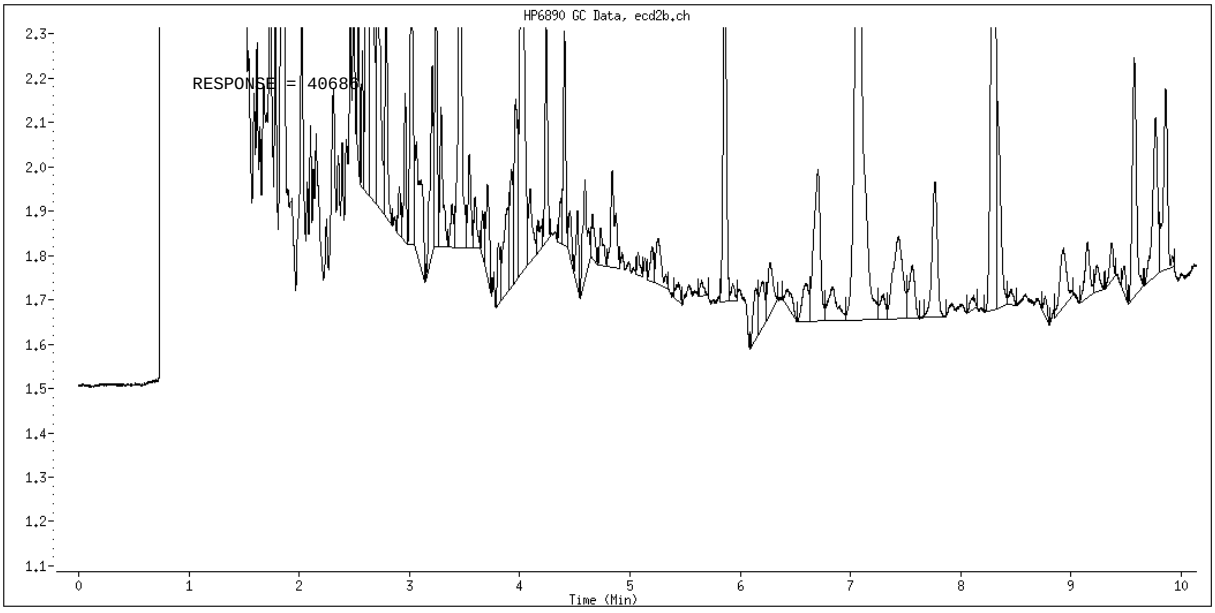
Operator: 093905 Date Acquired: 07-JAN-2010 13:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/010F1001.D
Lab Sample ID: TC SOLID MDL
Misc. Info: SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
9) Tech Chlordane	6.704	143380	0.028	9.288 ug/Kg

Data File Name: 010F1001.D
Inj. Date and Time: 07-JAN-2010 13:42
Instrument ID: a2hp9.i
Client ID:
Compound Name: Tech Chlordane
CAS #: 57-74-9
Report Date: 01/11/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\012F1201.D
Lab Smp Id: MDL SOLID BLK
Inj Date : 07-JAN-2010 14:32
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MDL SOLID BLK
Misc Info : SOLID MDL BLANK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.404	4.415	-0.011	28970	6e-004	0.005673		
2 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene						CAS #: 118-74-1	

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC						CAS #: 319-84-6	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

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6 beta-BHC CAS #: 319-85-7

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

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8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

9.909 9.924 -0.015 10413 1e-004 0.04864

---

16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

19 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

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22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

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24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

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25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

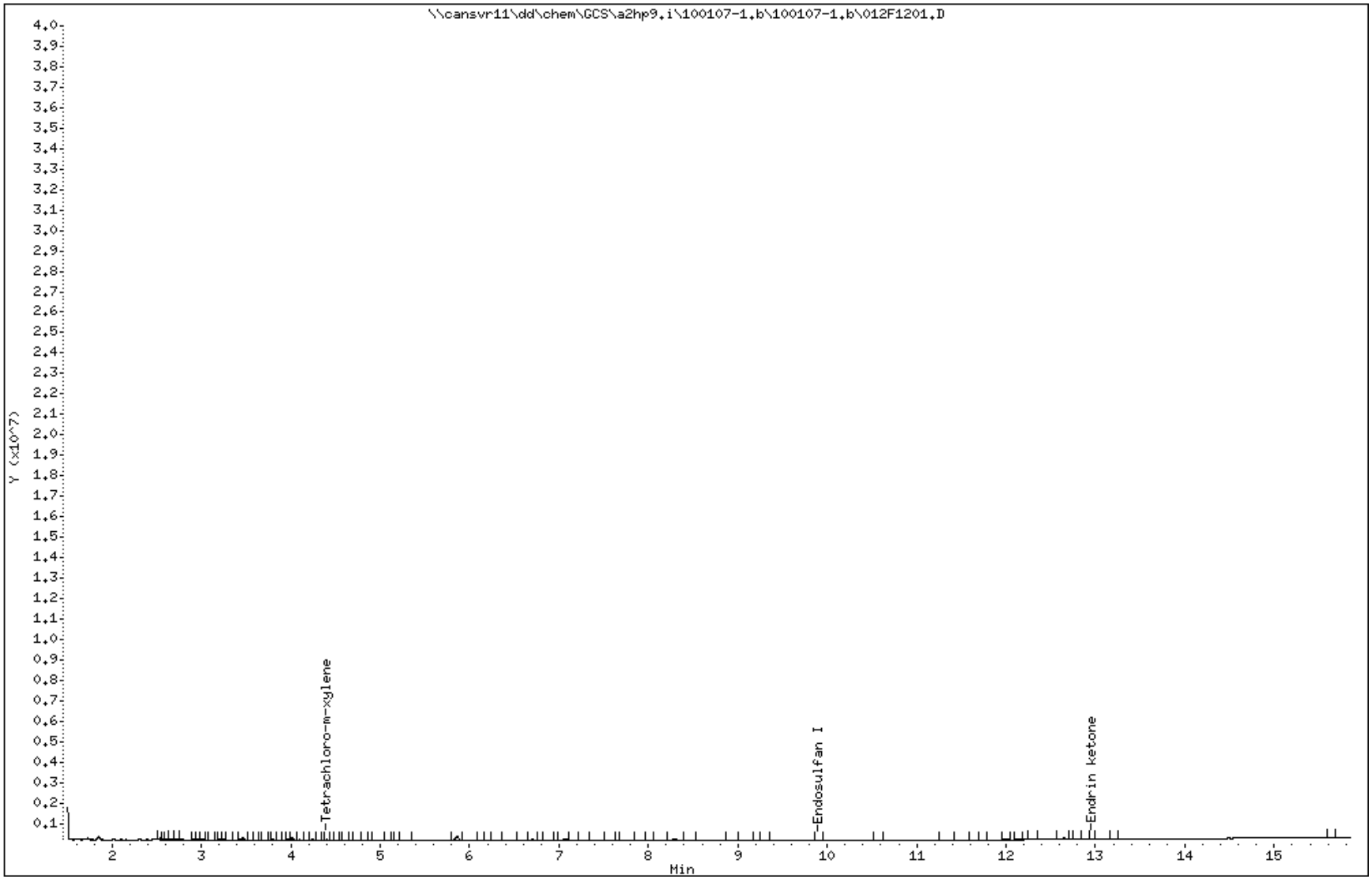
12.967	12.982	-0.015	6706	2e-004	0.07035

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\012F1201.D Page 1
Date : 07-JAN-2010 14:32
Client ID:
Instrument: a2hp9.i
Sample Info: MDL SOLID BLK
Volume Injected (uL): 1.0
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 14:32
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/012F1201.D
Lab Sample ID: MDL SOLID BLK
Misc. Info: SOLID MDL BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.405	57103	0.001	0.006 ug/Kg
2)	Diallate	NOT DETECTED	Expected RT =	5.042	
3)	Hexachlorobenzene	NOT DETECTED	Expected RT =	5.105	
4)	alpha-BHC	NOT DETECTED	Expected RT =	5.357	
5)	gamma-BHC (Lindane)	NOT DETECTED	Expected RT =	6.029	
6)	beta-BHC	NOT DETECTED	Expected RT =	6.240	
9)	Tech Chlordane	NOT DETECTED	Expected RT =	6.672	
7)	delta-BHC	NOT DETECTED	Expected RT =	6.916	
8)	Heptachlor	NOT DETECTED	Expected RT =	7.031	
10)	Aldrin	NOT DETECTED	Expected RT =	7.861	
11)	Isodrin	NOT DETECTED	Expected RT =	8.772	
12)	Heptachlor epoxide	NOT DETECTED	Expected RT =	9.193	
13)	gamma-Chlordane	NOT DETECTED	Expected RT =	9.575	
14)	alpha-Chlordane	NOT DETECTED	Expected RT =	9.859	
15)	Endosulfan I	9.909	10413	0.000	0.049 ug/Kg
16)	4,4'-DDE	NOT DETECTED	Expected RT =	10.261	
17)	Dieldrin	NOT DETECTED	Expected RT =	10.421	
18)	Endrin	NOT DETECTED	Expected RT =	10.921	
19)	Chlorobenzilate	NOT DETECTED	Expected RT =	11.058	
20)	Kepone	NOT DETECTED	Expected RT =	11.092	
21)	4,4'-DDD	NOT DETECTED	Expected RT =	11.228	
22)	Endosulfan II	NOT DETECTED	Expected RT =	11.279	
23)	Toxaphene	NOT DETECTED	Expected RT =	11.424	
24)	4,4'-DDT	NOT DETECTED	Expected RT =	11.709	
25)	Endrin aldehyde	NOT DETECTED	Expected RT =	11.823	
26)	Endosulfan sulfate	NOT DETECTED	Expected RT =	12.242	
27)	Methoxychlor	NOT DETECTED	Expected RT =	12.754	
28)	Mirex	NOT DETECTED	Expected RT =	12.864	
29)	Endrin ketone	12.967	10973	0.000	0.070 ug/Kg
30)	Decachlorobiphenyl	NOT DETECTED	Expected RT =	14.728	

TestAmerica North Canton

PESTICIDES 8081/608

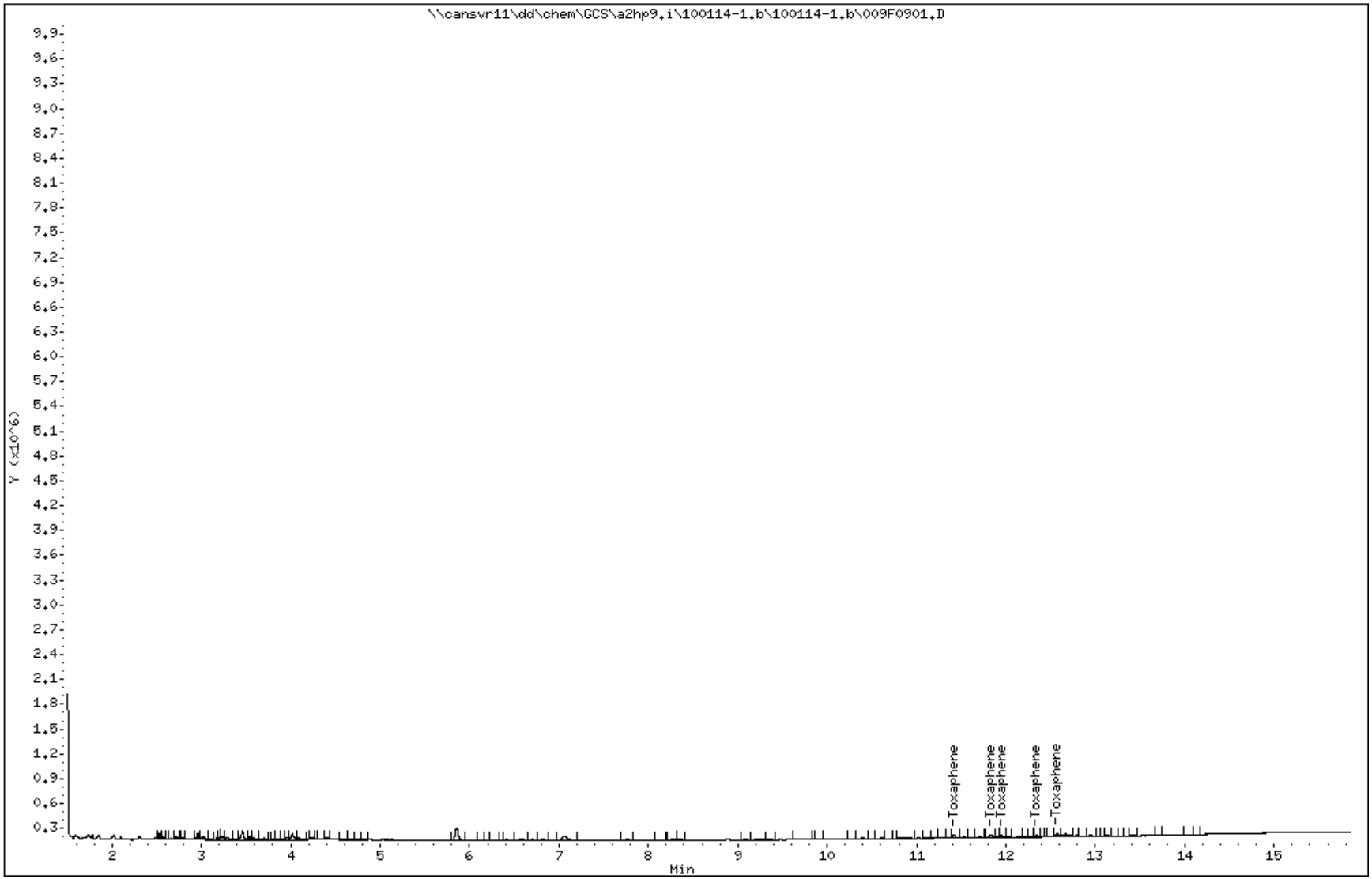
Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\009F0901.D
Lab Smp Id: TOX SOLID MDL
Inj Date : 14-JAN-2010 12:22
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL
Misc Info : TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Jan-2010 12:44 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.417	11.418	-0.001	41415	0.03794	12.65	80.00- 120.00	100.00
11.830	11.829	0.001	38821	0.03749	12.50	114.04- 154.04	93.74
11.948	11.948	0.000	22802	0.03585	11.95	115.64- 155.64	55.06
12.340	12.345	-0.005	17967	0.03422	11.40	52.78- 92.78	43.38
12.572	12.571	0.001	34059	0.03804	12.68	69.36- 109.36	82.24
Average of Peak Concentrations =					12.24		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\009F0901.D Page 1
Date : 14-JAN-2010 12:22
Client ID: Instrument: a2hp9.i
Sample Info: TOX SOLID MDL
Volume Injected (uL): 1.0 Operator: 093905
Column phase: clp pesticides II Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 14-JAN-2010 12:22
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/100114-1.b/009F0901.D
Lab Sample ID: TOX SOLID MDL
Misc. Info: TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.418	91360	0.038	12.647 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\010F1001.D
Lab Smp Id: TOX SOLID MDL BL
Inj Date : 14-JAN-2010 12:46
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL BL
Misc Info : TOX SOLID MDL VERIFICATION BLANK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Jan-2010 12:44 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.402	4.412	-0.010	37890	7e-004	0.007420		

2 Diallate CAS #: 2303-16-4

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene CAS #: 118-74-1

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
Peaks not detected for Quant. or Qual. signal(s).							
6 beta-BHC					CAS #: 319-85-7		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
6.675	6.664	0.011	3438	0.00281	0.9380	0.00- 20.00	100.00
8.287	8.298	-0.011	27561	0.01769	5.897	0.00- 20.00	801.66
0.000	9.567	-9.567	0	0.0000	0.0000	0.00- 20.00	0.00
0.000	9.852	-9.852	0	0.0000	0.0000	0.00- 20.00	0.00
Average of Peak Concentrations =					3.417		
7 delta-BHC					CAS #: 319-86-8		
Peaks not detected for Quant. or Qual. signal(s).							
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
10 Aldrin					CAS #: 309-00-2		
Peaks not detected for Quant. or Qual. signal(s).							
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
Peaks not detected for Quant. or Qual. signal(s).							

```
--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.906    9.917   -0.011           13599  2e-004  0.06352
--------------------------------------------------------------------------------
   16 4,4'-DDE                                    CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

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```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

19 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

11.802	11.816	-0.014	2478	1.e-004		0.03387	

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

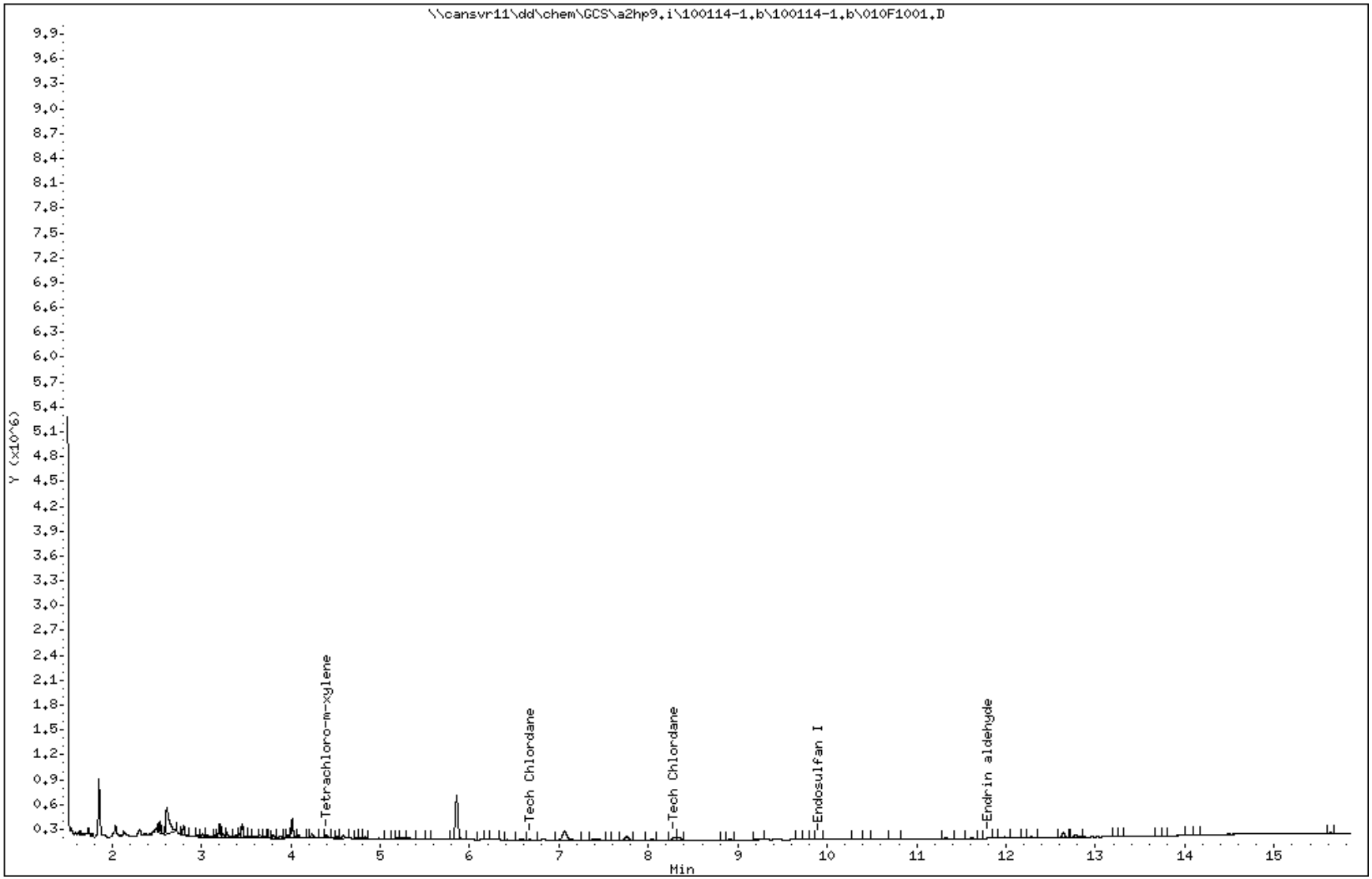
29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\010F1001.D Page 1
Date : 14-JAN-2010 12:46
Client ID:
Instrument: a2hp9.i
Sample Info: TOX SOLID MDL BL
Volume Injected (uL): 1.0
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 14-JAN-2010 12:46
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/100114-1.b/010F1001.D
Lab Sample ID: TOX SOLID MDL BL
Misc. Info: TOX SOLID MDL VERIFICATION BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.402	62602	0.001	0.007 ug/Kg
2) Diallate	NOT DETECTED	Expected RT = 5.042		
3) Hexachlorobenzene	NOT DETECTED	Expected RT = 5.105		
4) alpha-BHC	NOT DETECTED	Expected RT = 5.351		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 6.022		
6) beta-BHC	NOT DETECTED	Expected RT = 6.232		
9) Tech Chlordane	6.675	11551	0.003	0.938 ug/Kg
7) delta-BHC	NOT DETECTED	Expected RT = 6.907		
8) Heptachlor	NOT DETECTED	Expected RT = 7.023		
10) Aldrin	NOT DETECTED	Expected RT = 7.853		
11) Isodrin	NOT DETECTED	Expected RT = 8.772		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 9.186		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 9.568		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 9.852		
15) Endosulfan I	9.906	13599	0.000	0.064 ug/Kg
16) 4,4'-DDE	NOT DETECTED	Expected RT = 10.256		
17) Dieldrin	NOT DETECTED	Expected RT = 10.414		
18) Endrin	NOT DETECTED	Expected RT = 10.913		
19) Chlorobenzilate	NOT DETECTED	Expected RT = 11.058		
20) Kepone	NOT DETECTED	Expected RT = 11.092		
21) 4,4'-DDD	NOT DETECTED	Expected RT = 11.222		
22) Endosulfan II	NOT DETECTED	Expected RT = 11.272		
23) Toxaphene	NOT DETECTED	Expected RT = 11.418		
24) 4,4'-DDT	NOT DETECTED	Expected RT = 11.702		
25) Endrin aldehyde	11.803	8110	0.000	0.034 ug/Kg
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.236		
27) Methoxychlor	NOT DETECTED	Expected RT = 12.749		
28) Mirex	NOT DETECTED	Expected RT = 12.864		
29) Endrin ketone	NOT DETECTED	Expected RT = 12.976		
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.722		

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RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4JR1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-031
Prep Date.....: 02/26/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0057031
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
gamma-BHC (Lindane)	**87**	**(60 - 125)**	**SW846 8081A**
Heptachlor	**80**	**(50 - 140)**	**SW846 8081A**
Aldrin	**86**	**(45 - 140)**	**SW846 8081A**
Dieldrin	**94**	**(65 - 125)**	**SW846 8081A**
Endrin	**96**	**(60 - 135)**	**SW846 8081A**
4,4'-DDT	**94**	**(45 - 140)**	**SW846 8081A**
alpha-BHC	**88**	**(60 - 125)**	**SW846 8081A**
beta-BHC	**83**	**(60 - 125)**	**SW846 8081A**
delta-BHC	**91**	**(55 - 130)**	**SW846 8081A**
Heptachlor epoxide	**88**	**(65 - 130)**	**SW846 8081A**
Endosulfan I	**77**	**(15 - 135)**	**SW846 8081A**
4,4'-DDE	**95**	**(70 - 125)**	**SW846 8081A**
Endosulfan II	**80**	**(35 - 140)**	**SW846 8081A**
4,4'-DDD	**93**	**(30 - 135)**	**SW846 8081A**
Endosulfan sulfate	**94**	**(60 - 135)**	**SW846 8081A**
Methoxychlor	**95**	**(55 - 145)**	**SW846 8081A**
Endrin ketone	**87**	**(65 - 135)**	**SW846 8081A**
Endrin aldehyde	**79**	**(35 - 145)**	**SW846 8081A**
alpha-Chlordane	**89**	**(65 - 120)**	**SW846 8081A**
gamma-Chlordane	**89**	**(65 - 125)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(70 - 125)
Decachlorobiphenyl	99	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4JR1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-031
Prep Date.....: 02/26/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0057031
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
gamma-BHC (Lindane)	**33**	**29**	**ug/kg**	**87**	**SW846 8081A**
Heptachlor	**33**	**27**	**ug/kg**	**80**	**SW846 8081A**
Aldrin	**33**	**29**	**ug/kg**	**86**	**SW846 8081A**
Dieldrin	**33**	**31**	**ug/kg**	**94**	**SW846 8081A**
Endrin	**33**	**32**	**ug/kg**	**96**	**SW846 8081A**
4,4'-DDT	**33**	**31**	**ug/kg**	**94**	**SW846 8081A**
alpha-BHC	**33**	**29**	**ug/kg**	**88**	**SW846 8081A**
beta-BHC	**33**	**28**	**ug/kg**	**83**	**SW846 8081A**
delta-BHC	**33**	**30**	**ug/kg**	**91**	**SW846 8081A**
Heptachlor epoxide	**33**	**29**	**ug/kg**	**88**	**SW846 8081A**
Endosulfan I	**33**	**26**	**ug/kg**	**77**	**SW846 8081A**
4,4'-DDE	**33**	**32**	**ug/kg**	**95**	**SW846 8081A**
Endosulfan II	**33**	**27**	**ug/kg**	**80**	**SW846 8081A**
4,4'-DDD	**33**	**31**	**ug/kg**	**93**	**SW846 8081A**
Endosulfan sulfate	**33**	**31**	**ug/kg**	**94**	**SW846 8081A**
Methoxychlor	**33**	**31**	**ug/kg**	**95**	**SW846 8081A**
Endrin ketone	**33**	**29**	**ug/kg**	**87**	**SW846 8081A**
Endrin aldehyde	**33**	**26**	**ug/kg**	**79**	**SW846 8081A**
alpha-Chlordane	**33**	**30**	**ug/kg**	**89**	**SW846 8081A**
gamma-Chlordane	**33**	**30**	**ug/kg**	**89**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(70 - 125)
Decachlorobiphenyl	99	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\011F1101.D
Lab Smp Id: LV4JR1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 02-MAR-2010 04:55
Operator : 001754 Inst ID: a2hp9.i
Smp Info : LV4JR1AC
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 04-Mar-2010 06:34 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 11 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-pest.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.746	3.744	0.002	1957629	0.01607	0.1606		
4 alpha-BHC						CAS #: 319-84-6	
4.444	4.442	0.002	16892120	0.08388	27.96		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.858	4.856	0.002	15374808	0.08609	28.70		
6 beta-BHC						CAS #: 319-85-7	
5.002	5.001	0.001	3676051	0.08226	27.42		
7 delta-BHC						CAS #: 319-86-8	
5.244	5.242	0.002	15857226	0.08783	29.28		
	Sum of Peak Concentrations =				29.28		
8 Heptachlor						CAS #: 76-44-8	
5.560	5.557	0.003	7582637	0.08742	29.14		

```
--------------------------------------------------------------------------------
   10 Aldrin                                      CAS #: 309-00-2
6.074    6.072    0.002        13426252 0.07852    26.17
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.483	7.482	0.001	4261288	0.08834	29.45		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.792	7.788	0.004	4727849	0.08906	29.69		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.109	8.108	0.001	4673352	0.08498	28.33		
15 Endosulfan I						CAS #: 959-98-8	
8.369	8.366	0.003	3732367	0.07280	24.27		
16 4,4'-DDE						CAS #: 72-55-9	
8.444	8.442	0.002	13230438	0.08642	28.81		
17 Dieldrin						CAS #: 60-57-1	
8.889	8.886	0.003	14082201	0.09107	30.36		
18 Endrin						CAS #: 72-20-8	
9.317	9.315	0.002	5225508	0.09324	31.08		
20 4,4'-DDD						CAS #: 72-54-8	
9.635	9.637	-0.002	10466892	0.08829	29.43		
22 Endosulfan II						CAS #: 33213-65-9	
9.741	9.740	0.001	4361668	0.08007	26.69		
23 4,4'-DDT						CAS #: 50-29-3	
10.129	10.129	0.000	10642134	0.09213	30.71		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.503	10.502	0.001	3363997	0.07341	24.47		
27 Methoxychlor						CAS #: 72-43-5	
11.034	11.034	0.000	5128947	0.08960	29.86		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.206	11.204	0.002	10372501	0.08811	29.37		
29 Endrin ketone						CAS #: 53494-70-5	
11.599	11.598	0.001	5604358	0.08494	28.31		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.160	13.158	0.002	1074569	0.01721	0.1721		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\011F1101.D

Page 1

Date : 02-MAR-2010 04:55

Client ID: INTRA-LAB CHECK

Instrument: a2hp9.i

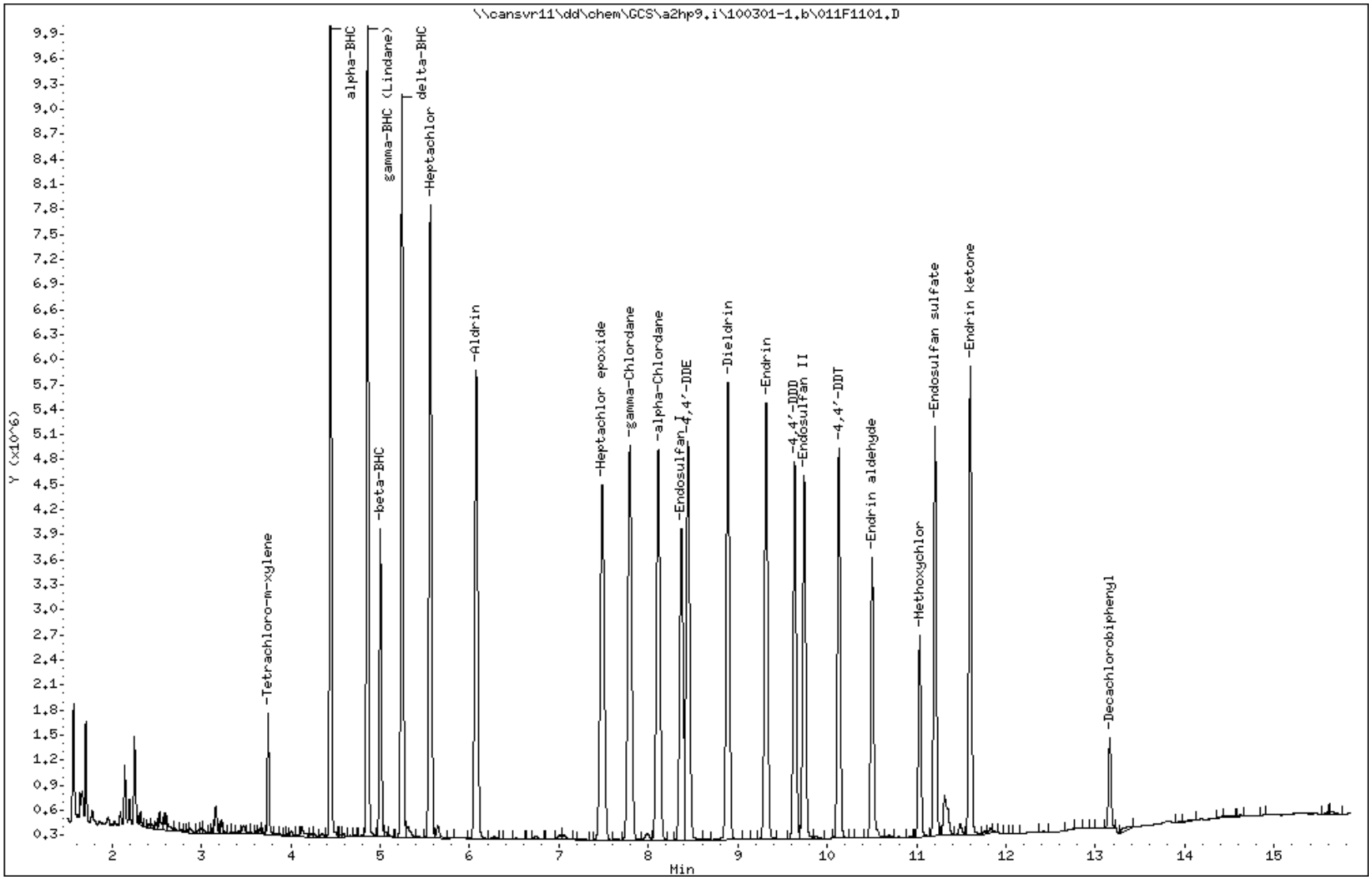
Sample Info: LV4JR1AC

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53

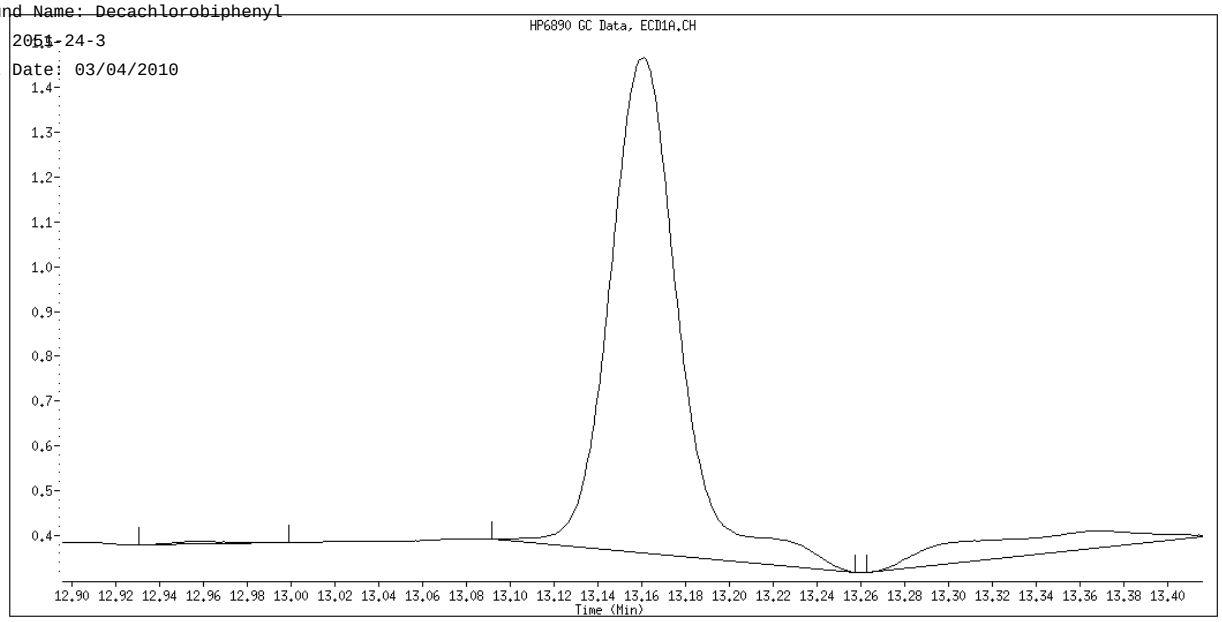


COMPOUNDS and EXP. RT REPORT

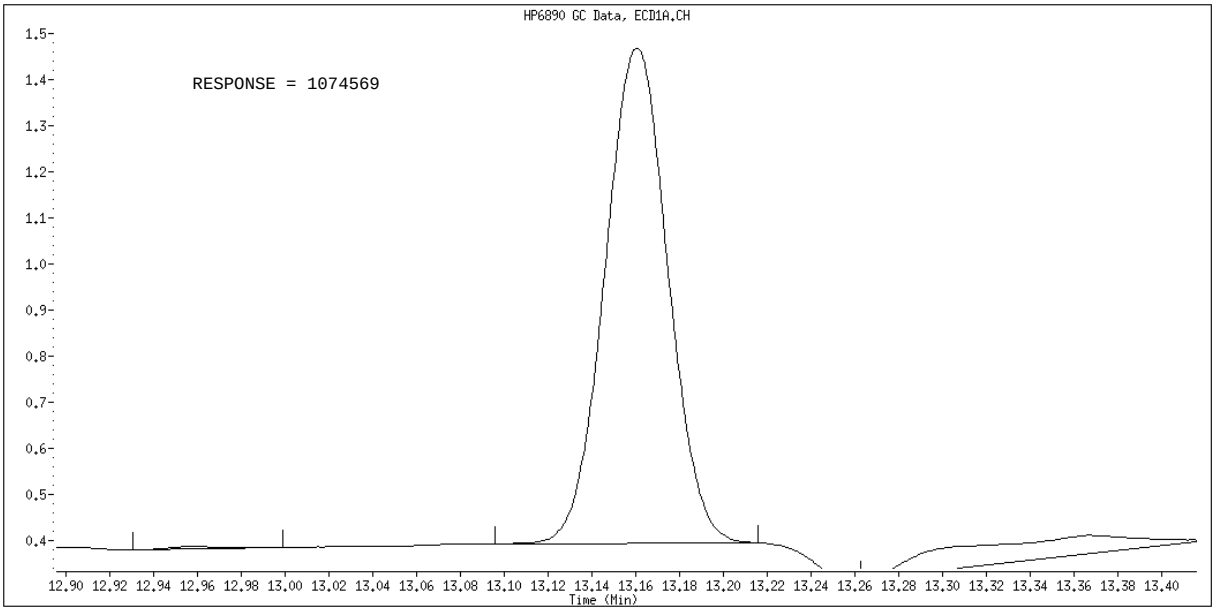
Operator: 001754 Date Acquired: 02-MAR-2010 04:55
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/011F1101.D
Lab Sample ID: LV4JR1AC
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	3.747	1957629	0.016	0.161 ug/Kg
4)	alpha-BHC	4.445	16892120	0.084	27.959 ug/Kg
5)	gamma-BHC (Lindane)	4.858	15374808	0.086	28.696 ug/Kg
6)	beta-BHC	5.002	5982972	0.082	27.419 ug/Kg
7)	delta-BHC	5.244	15857226	0.088	29.277 ug/Kg
8)	Heptachlor	5.561	15310893	0.087	29.140 ug/Kg
10)	Aldrin	6.075	13426252	0.079	26.172 ug/Kg
12)	Heptachlor epoxide	7.483	13539708	0.088	29.446 ug/Kg
13)	gamma-Chlordane	7.792	14262814	0.089	29.687 ug/Kg
14)	alpha-Chlordane	8.110	13374442	0.085	28.327 ug/Kg
15)	Endosulfan I	8.369	10204569	0.073	24.266 ug/Kg
16)	4,4'-DDE	8.444	13230438	0.086	28.807 ug/Kg
17)	Dieldrin	8.890	14082201	0.091	30.358 ug/Kg
18)	Endrin	9.317	13096720	0.093	31.079 ug/Kg
20)	4,4'-DDD	9.636	10466892	0.088	29.430 ug/Kg
22)	Endosulfan II	9.742	10439068	0.080	26.690 ug/Kg
23)	4,4'-DDT	10.130	10642134	0.092	30.710 ug/Kg
25)	Endrin aldehyde	10.503	7735848	0.073	24.469 ug/Kg
27)	Methoxychlor	11.034	5128947	0.090	29.865 ug/Kg
28)	Endosulfan sulfate	11.207	10372501	0.088	29.369 ug/Kg
29)	Endrin ketone	11.600	11643024	0.085	28.313 ug/Kg
30)	Decachlorobiphenyl	13.161	2152024	0.017	0.172 ug/Kg

Data File Name: 011F1101.D
Inj. Date and Time: 02-MAR-2010 04:55
Instrument ID: a2hp9.i
Client ID: INTRA-LAB CHECK
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/04/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\011F1101.D
Lab Smp Id: LV4JR1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 02-MAR-2010 04:55
Operator : 001754 Inst ID: a2hp9.i
Smp Info : LV4JR1AC
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 04-Mar-2010 06:44 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 11 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-pest.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.329	4.327	0.002	891187	0.01691	0.1691		
4 alpha-BHC						CAS #: 319-84-6	
5.234	5.230	0.004	5924876	0.08791	29.30		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.876	5.872	0.004	9251473	0.08726	29.09		
6 beta-BHC						CAS #: 319-85-7	
6.079	6.074	0.005	3817157	0.08283	27.61		
7 delta-BHC						CAS #: 319-86-8	
6.721	6.717	0.004	9583538	0.09120	30.40		
8 Heptachlor						CAS #: 76-44-8	
6.835	6.829	0.006	8082128	0.08027	26.76		

```
   10 Aldrin                                      CAS #: 309-00-2
7.657    7.651    0.006         2764236 0.08615    28.72
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.022	9.018	0.004	7800627	0.08823	29.41		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.410	9.407	0.003	7671779	0.08868	29.56		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.699	9.695	0.004	7547929	0.08857	29.52		
15 Endosulfan I					CAS #: 959-98-8		
9.763	9.758	0.005	6081265	0.07665	25.55		
16 4,4'-DDE					CAS #: 72-55-9		
10.110	10.107	0.003	7332285	0.09528	31.76		
17 Dieldrin					CAS #: 60-57-1		
10.263	10.259	0.004	3499628	0.09437	31.46		
18 Endrin					CAS #: 72-20-8		
10.766	10.762	0.004	3309956	0.09562	31.87		
21 4,4'-DDD					CAS #: 72-54-8		
11.086	11.085	0.001	5412977	0.09295	30.98		
22 Endosulfan II					CAS #: 33213-65-9		
11.127	11.123	0.004	2756465	0.08038	26.79		
24 4,4'-DDT					CAS #: 50-29-3		
11.570	11.567	0.003	5078023	0.09433	31.44		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.676	11.673	0.003	2140960	0.07879	26.26		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.099	12.096	0.003	2912327	0.09376	31.25		
27 Methoxychlor					CAS #: 72-43-5		
12.622	12.621	0.001	2549553	0.09445	31.48		
29 Endrin ketone					CAS #: 53494-70-5		
12.837	12.834	0.003	3239336	0.08642	28.81		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.587	14.584	0.003	1309588	0.01988	0.1988		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\011F1101.D

Page 1

Date : 02-MAR-2010 04:55

Client ID: INTRA-LAB CHECK

Instrument: a2hp9.i

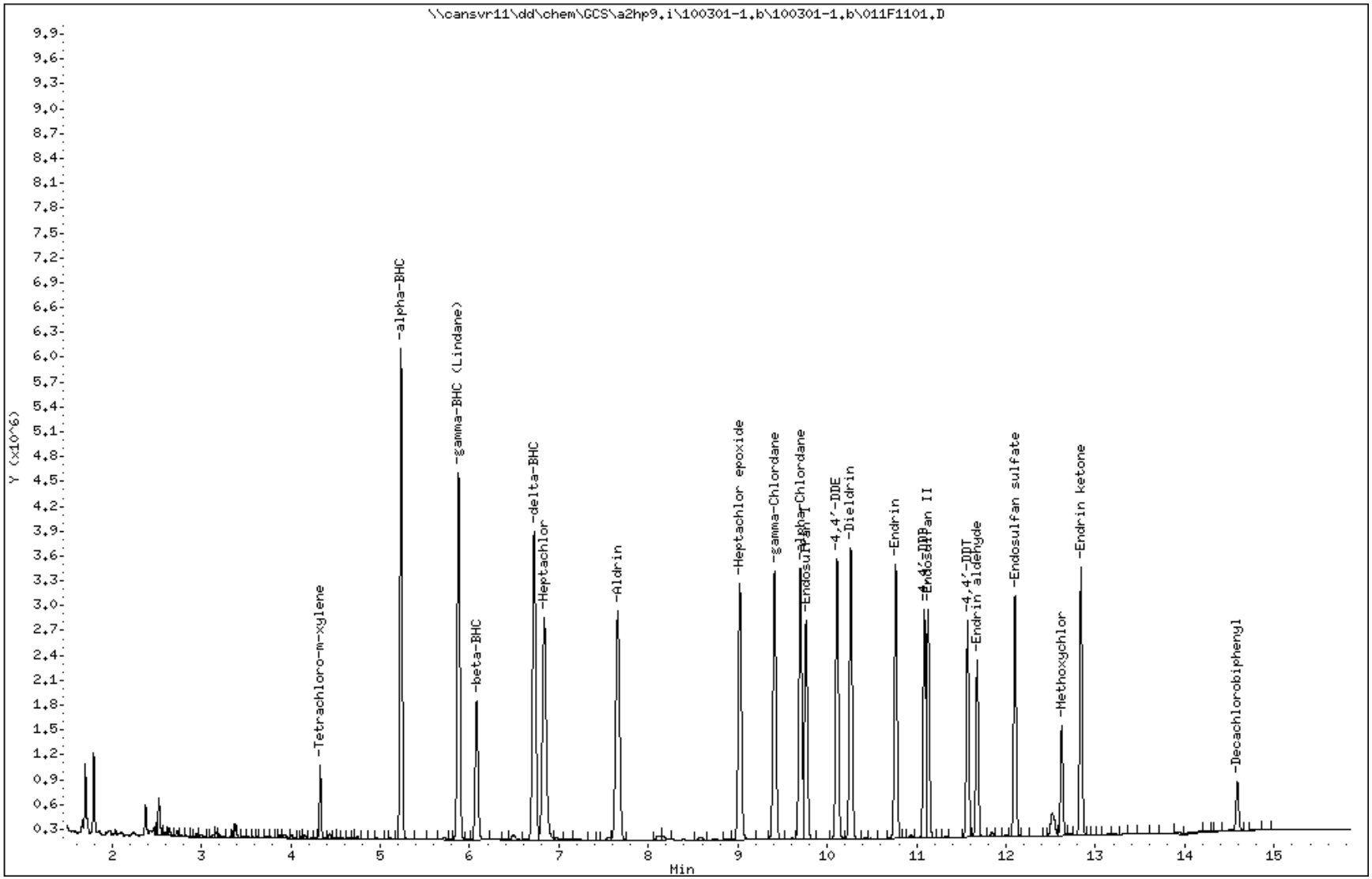
Sample Info: LV4JR1AC

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 04:55
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/011F1101.D
Lab Sample ID: LV4JR1AC
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.330	1227967	0.017	0.169 ug/Kg
4) alpha-BHC	5.234	10151715	0.088	29.303 ug/Kg
5) gamma-BHC (Lindane)	5.877	9251473	0.087	29.087 ug/Kg
6) beta-BHC	6.079	3817157	0.083	27.608 ug/Kg
7) delta-BHC	6.722	9583538	0.091	30.400 ug/Kg
8) Heptachlor	6.836	8082128	0.080	26.758 ug/Kg
10) Aldrin	7.657	8442502	0.086	28.717 ug/Kg
12) Heptachlor epoxide	9.022	7800627	0.088	29.409 ug/Kg
13) gamma-Chlordane	9.411	7671779	0.089	29.561 ug/Kg
14) alpha-Chlordane	9.700	7547929	0.089	29.522 ug/Kg
15) Endosulfan I	9.763	6081265	0.077	25.549 ug/Kg
16) 4,4'-DDE	10.111	7332285	0.095	31.759 ug/Kg
17) Dieldrin	10.263	7674839	0.094	31.456 ug/Kg
18) Endrin	10.767	6988011	0.096	31.873 ug/Kg
21) 4,4'-DDD	11.087	5412977	0.093	30.984 ug/Kg
22) Endosulfan II	11.127	5752844	0.080	26.793 ug/Kg
24) 4,4'-DDT	11.571	5078023	0.094	31.443 ug/Kg
25) Endrin aldehyde	11.677	4203442	0.079	26.264 ug/Kg
26) Endosulfan sulfate	12.100	5663585	0.094	31.253 ug/Kg
27) Methoxychlor	12.622	2549553	0.094	31.484 ug/Kg
29) Endrin ketone	12.837	6176437	0.086	28.808 ug/Kg
30) Decachlorobiphenyl	14.587	1309588	0.020	0.199 ug/Kg

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4JR1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0B260000-031

Prep Date.....: 02/26/10 **Final Wgt/Vol..:** 10 mL
Analysis Date..: 03/02/10 **Prep Batch #...:** 0057031
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	4.0	ug/kg	SW846 8081A
alpha-BHC	ND	2.5	ug/kg	SW846 8081A
beta-BHC	ND	3.5	ug/kg	SW846 8081A
delta-BHC	ND	4.0	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	2.5	ug/kg	SW846 8081A
alpha-Chlordane	ND	3.0	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	2.0	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	2.0	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	2.5	ug/kg	SW846 8081A
Endosulfan sulfate	ND	3.0	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	3.0	ug/kg	SW846 8081A
Endrin ketone	ND	2.0	ug/kg	SW846 8081A
Heptachlor	ND	3.5	ug/kg	SW846 8081A
Heptachlor epoxide	ND	2.5	ug/kg	SW846 8081A
Methoxychlor	ND	5.0	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(70 - 125)
Decachlorobiphenyl	90	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\010F1001.D
Lab Smp Id: LV4JR1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 02-MAR-2010 04:32
Operator : 001754 Inst ID: a2hp9.i
Smp Info : LV4JR1AA
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 04-Mar-2010 06:34 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 10 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.746	3.744	0.002	2026037	0.01663	0.1663		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.263	4.285	-0.022	65155				
3 Diallate						CAS #: 2303-16-4	
4.344	4.369	-0.025	45347			0.00- 20.00	100.00
4.557	4.544	0.013	22911			0.00- 20.00	50.52
4 alpha-BHC						CAS #: 319-84-6	
4.470	4.442	0.028	31090	2e-004	0.05146		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.882	4.856	0.026	19205	1e-004	0.03584		
6 beta-BHC						CAS #: 319-85-7	
4.996	5.001	-0.005	9244	2e-004	0.06895		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
Peaks not detected for Quant. or Qual. signal(s).							
8 Heptachlor					CAS #: 76-44-8		
5.576	5.557	0.019	13782	2e-004	0.05296		
9 Tech Chlordane					CAS #: 57-74-9		
5.428	5.431	-0.003	8296	0.00308	1.027	0.00- 20.00	100.00
6.410	6.404	0.006	5850	0.00279	0.9288	0.00- 20.00	70.52
0.000	7.789	-7.789	0	0.0000	0.0000	0.00- 20.00	0.00
8.130	8.103	0.027	11830	0.00150	0.4988	0.00- 20.00	142.60
Average of Peak Concentrations =					0.8183		
10 Aldrin					CAS #: 309-00-2		
6.070	6.072	-0.002	828455	0.00484	1.615		
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.130	8.108	0.022	11830	2e-004	0.07170		
15 Endosulfan I					CAS #: 959-98-8		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
8.459	8.442	0.017	9168	6.e-005	0.01996		
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							
18 Endrin					CAS #: 72-20-8		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

19 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

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20 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

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21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

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22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

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24 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

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23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

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25 Endrin aldehyde CAS #: 7421-93-4

10.480	10.502	-0.022	9075	2.e-004		0.06601	

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26 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

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27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

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28 Endosulfan sulfate CAS #: 1031-07-8

11.186	11.204	-0.018	24186	2e-004		0.06848	

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

```
$  30 Decachlorobiphenyl                          CAS #: 2051-24-3
13.161  13.158    0.003         1017451 0.01630   0.1630                       (M)
-------------------------------------------------------------------------------
```

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\010F1001.D

Date : 02-MAR-2010 04:32

Client ID: INTRA-LAB BLANK

Instrument: a2hp9.i

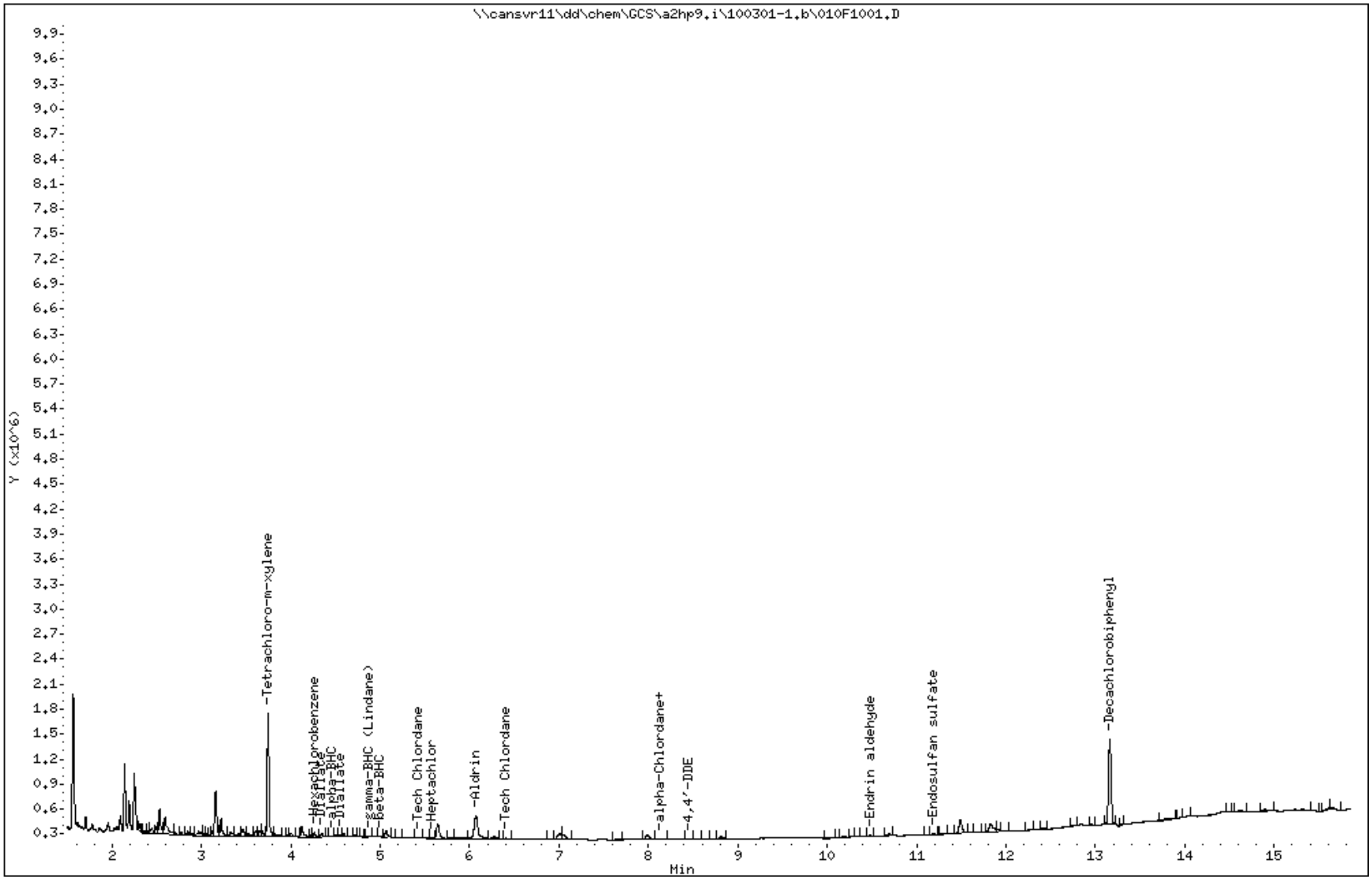
Sample Info: LV4JR1AA

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53

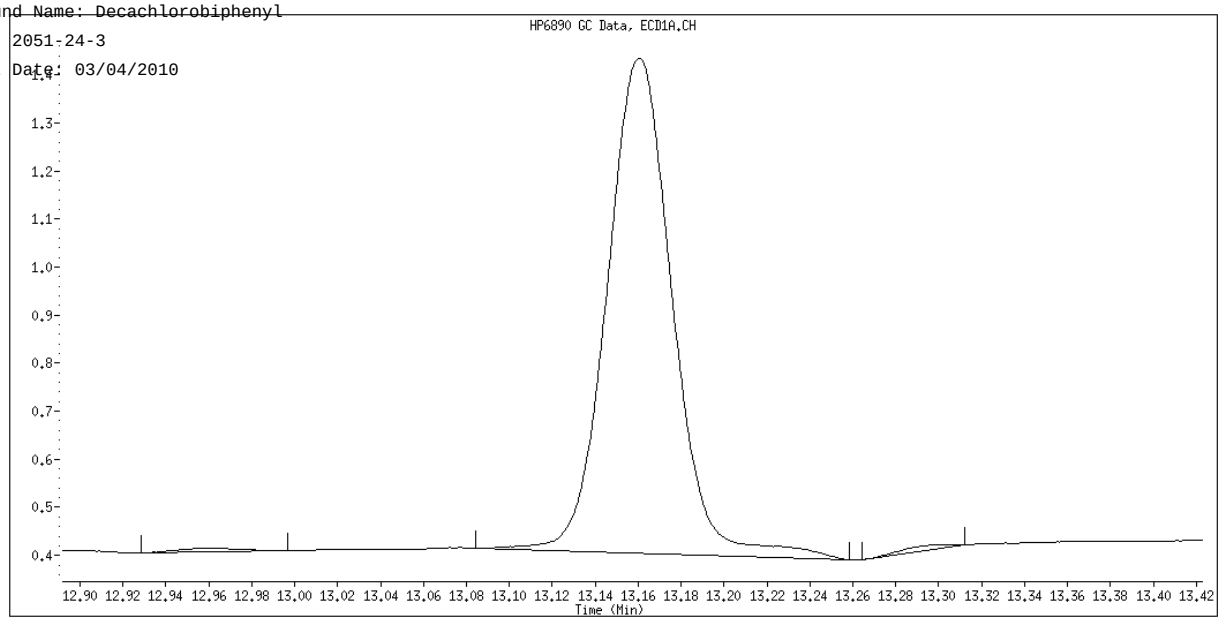


COMPOUNDS and EXP. RT REPORT

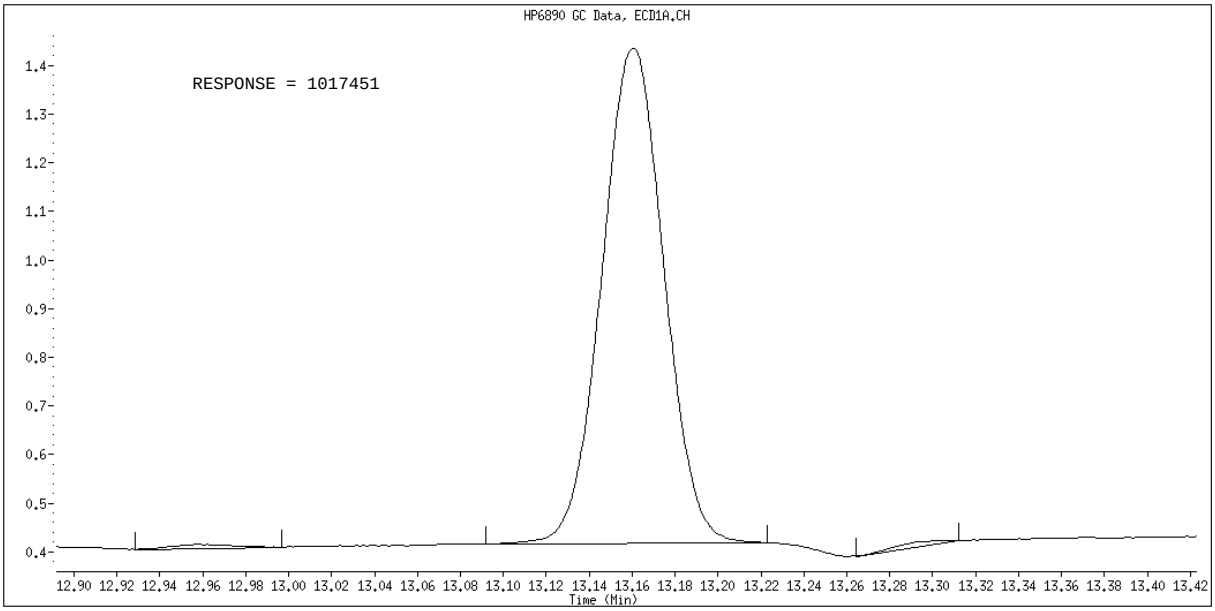
Operator: 001754 Date Acquired: 02-MAR-2010 04:32
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/010F1001.D
Lab Sample ID: LV4JR1AA
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	3.746	2026037	0.017	0.166 ug/Kg
2)	Hexachlorobenzene	4.264	126793	0.000	0.000 ug/Kg
3)	Diallate	4.344	76929	0.000	0.000 ug/Kg
4)	alpha-BHC	4.470	31090	0.000	0.051 ug/Kg
5)	gamma-BHC (Lindane)	4.883	19205	0.000	0.036 ug/Kg
6)	beta-BHC	4.996	16162	0.000	0.069 ug/Kg
7)	delta-BHC	NOT DETECTED	Expected RT = 5.242		
9)	Tech Chlordane	5.429	20267	0.003	1.027 ug/Kg
8)	Heptachlor	5.577	26603	0.000	0.053 ug/Kg
10)	Aldrin	6.070	828455	0.005	1.615 ug/Kg
11)	Isodrin	NOT DETECTED	Expected RT = 6.872		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 7.482		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 7.789		
14)	alpha-Chlordane	8.130	44706	0.000	0.072 ug/Kg
15)	Endosulfan I	NOT DETECTED	Expected RT = 8.366		
16)	4,4'-DDE	8.459	9168	0.000	0.020 ug/Kg
17)	Dieldrin	NOT DETECTED	Expected RT = 8.886		
18)	Endrin	NOT DETECTED	Expected RT = 9.315		
19)	Kepone	NOT DETECTED	Expected RT = 9.500		
20)	4,4'-DDD	NOT DETECTED	Expected RT = 9.638		
22)	Endosulfan II	NOT DETECTED	Expected RT = 9.740		
21)	Chlorobenzilate	NOT DETECTED	Expected RT = 9.844		
24)	Toxaphene	NOT DETECTED	Expected RT = 9.866		
23)	4,4'-DDT	NOT DETECTED	Expected RT = 10.130		
25)	Endrin aldehyde	10.480	22653	0.000	0.066 ug/Kg
26)	Mirex	NOT DETECTED	Expected RT = 10.813		
27)	Methoxychlor	NOT DETECTED	Expected RT = 11.035		
28)	Endosulfan sulfate	11.186	24186	0.000	0.068 ug/Kg
29)	Endrin ketone	NOT DETECTED	Expected RT = 11.599		
30)	Decachlorobiphenyl	13.161	2056709	0.016	0.163 ug/Kg

Data File Name: 010F1001.D
Inj. Date and Time: 02-MAR-2010 04:32
Instrument ID: a2hp9.i
Client ID: INTRA-LAB BLANK
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/04/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\010F1001.D
Lab Smp Id: LV4JR1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 02-MAR-2010 04:32
Operator : 001754 Inst ID: a2hp9.i
Smp Info : LV4JR1AA
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 04-Mar-2010 06:44 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 10 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.329	4.327	0.002	898927	0.01705	0.1705		
2 Diallate						CAS #: 2303-16-4	
5.027	5.041	-0.014	5891			0.00- 20.00	100.00
5.196	5.216	-0.020	4902			0.00- 20.00	83.21
3 Hexachlorobenzene						CAS #: 118-74-1	
5.117	5.104	0.013	39680				
4 alpha-BHC						CAS #: 319-84-6	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

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6 beta-BHC CAS #: 319-85-7

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

9.770 9.758 0.012 8885 1e-004 0.03733

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16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

19 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

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22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Mirex CAS #: 2385-85-5

```
Peaks not detected for Quant. or Qual. signal(s).

--------------------------------------------------------------------------------
   27 Methoxychlor                                  CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

--------------------------------------------------------------------------------
   29 Endrin ketone                                 CAS #: 53494-70-5
12.820  12.834   -0.014           24897  7e-004   0.2214
--------------------------------------------------------------------------------
$  30 Decachlorobiphenyl                            CAS #: 2051-24-3
14.587  14.584    0.003         1187909 0.01803   0.1803
--------------------------------------------------------------------------------
```

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\010F1001.D

Date : 02-MAR-2010 04:32

Client ID: INTRA-LAB BLANK

Instrument: a2hp9.i

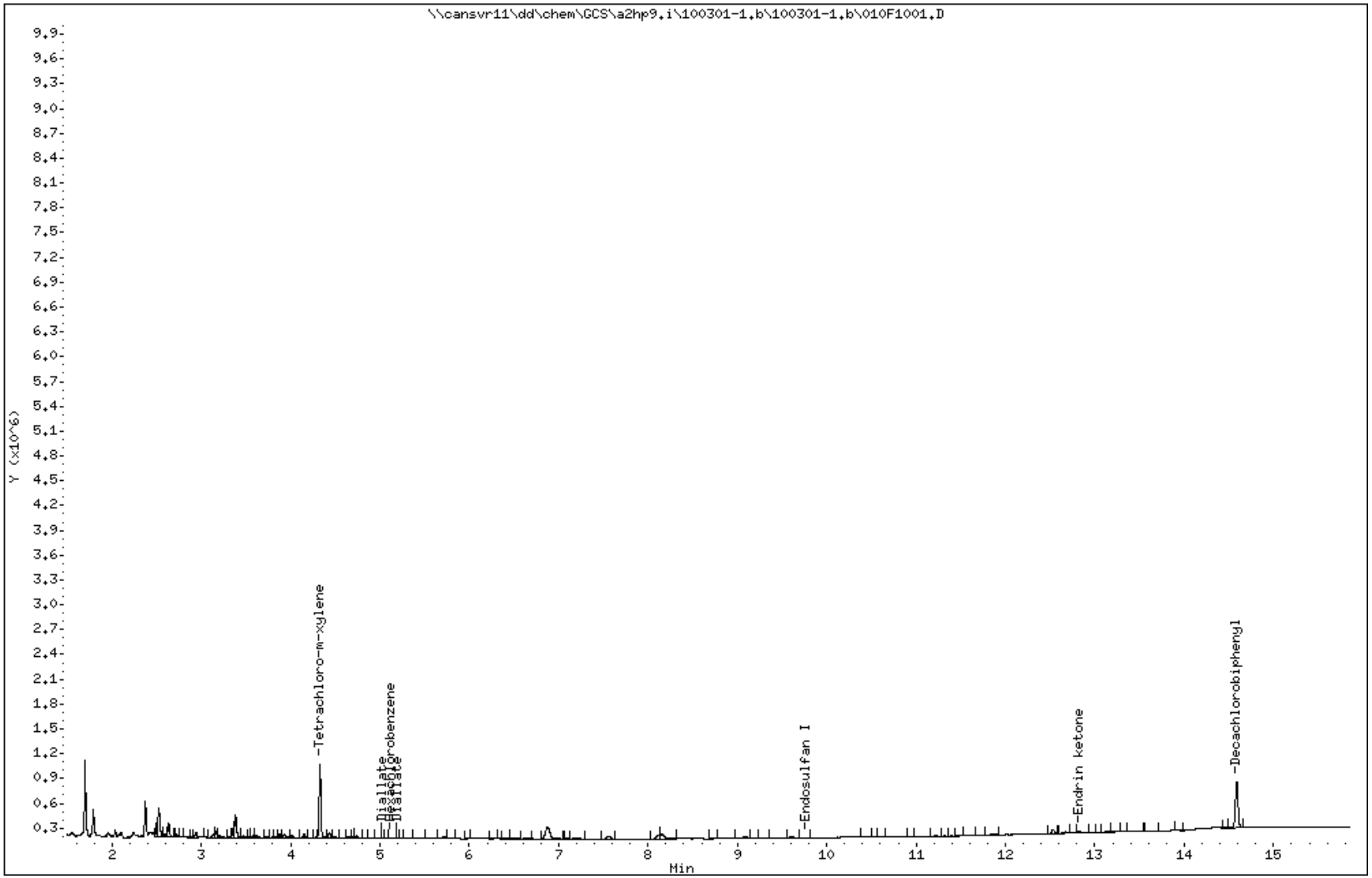
Sample Info: LV4JR1AA

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 04:32
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/010F1001.D
Lab Sample ID: LV4JR1AA
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.329	1262107	0.017	0.171 ug/Kg
2)	Diallate	5.028	10700	0.000	0.000 ug/Kg
3)	Hexachlorobenzene	5.118	39680	0.000	0.000 ug/Kg
4)	alpha-BHC	NOT DETECTED	Expected RT = 5.230		
5)	gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 5.873		
6)	beta-BHC	NOT DETECTED	Expected RT = 6.075		
9)	Tech Chlordane	NOT DETECTED	Expected RT = 6.487		
7)	delta-BHC	NOT DETECTED	Expected RT = 6.718		
8)	Heptachlor	NOT DETECTED	Expected RT = 6.830		
10)	Aldrin	NOT DETECTED	Expected RT = 7.651		
11)	Isodrin	NOT DETECTED	Expected RT = 8.771		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 9.019		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 9.407		
14)	alpha-Chlordane	NOT DETECTED	Expected RT = 9.695		
15)	Endosulfan I	9.770	8885	0.000	0.037 ug/Kg
16)	4,4'-DDE	NOT DETECTED	Expected RT = 10.108		
17)	Dieldrin	NOT DETECTED	Expected RT = 10.260		
18)	Endrin	NOT DETECTED	Expected RT = 10.762		
19)	Chlorobenzilate	NOT DETECTED	Expected RT = 11.058		
21)	4,4'-DDD	NOT DETECTED	Expected RT = 11.085		
20)	Kepone	NOT DETECTED	Expected RT = 11.090		
22)	Endosulfan II	NOT DETECTED	Expected RT = 11.124		
23)	Toxaphene	NOT DETECTED	Expected RT = 11.274		
24)	4,4'-DDT	NOT DETECTED	Expected RT = 11.568		
25)	Endrin aldehyde	NOT DETECTED	Expected RT = 11.674		
26)	Endosulfan sulfate	NOT DETECTED	Expected RT = 12.096		
27)	Methoxychlor	NOT DETECTED	Expected RT = 12.621		
29)	Endrin ketone	12.820	66038	0.001	0.221 ug/Kg
28)	Mirex	NOT DETECTED	Expected RT = 12.864		
30)	Decachlorobiphenyl	14.588	1187909	0.018	0.180 ug/Kg

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV3JM1A8-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250453-002 LV3JM1A9-MSD
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
Prep Date.....: 02/26/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0057031
Dilution Factor: 1 **Initial Wgt/Vol:** 30.07 g **Final Wgt/Vol..:** 10 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
gamma-BHC (Lindane)	87	(60 - 125)			SW846 8081A
	85	(60 - 125)	1.9	(0-36)	SW846 8081A
Heptachlor	72	(50 - 140)			SW846 8081A
	74	(50 - 140)	2.7	(0-44)	SW846 8081A
Aldrin	85	(45 - 140)			SW846 8081A
	84	(45 - 140)	1.7	(0-40)	SW846 8081A
Dieldrin	88	(65 - 125)			SW846 8081A
	89	(65 - 125)	0.85	(0-33)	SW846 8081A
Endrin	92	(60 - 135)			SW846 8081A
	92	(60 - 135)	0.45	(0-38)	SW846 8081A
4,4'-DDT	89	(45 - 140)			SW846 8081A
	91	(45 - 140)	2.8	(0-42)	SW846 8081A
alpha-BHC	89	(60 - 125)			SW846 8081A
	87	(60 - 125)	2.6	(0-40)	SW846 8081A
beta-BHC	81	(60 - 125)			SW846 8081A
	78	(60 - 125)	3.5	(0-43)	SW846 8081A
delta-BHC	88	(55 - 130)			SW846 8081A
	87	(55 - 130)	2.1	(0-34)	SW846 8081A
Heptachlor epoxide	84	(65 - 130)			SW846 8081A
	83	(65 - 130)	1.8	(0-43)	SW846 8081A
Endosulfan I	73	(15 - 135)			SW846 8081A
	72	(15 - 135)	1.0	(0-41)	SW846 8081A
4,4'-DDE	91	(70 - 125)			SW846 8081A
	91	(70 - 125)	0.06	(0-39)	SW846 8081A
Endosulfan II	77	(35 - 140)			SW846 8081A
	75	(35 - 140)	2.9	(0-27)	SW846 8081A
4,4'-DDD	90	(30 - 135)			SW846 8081A
	90	(30 - 135)	0.10	(0-35)	SW846 8081A
Endosulfan sulfate	92	(60 - 135)			SW846 8081A
	90	(60 - 135)	2.1	(0-34)	SW846 8081A
Methoxychlor	75	(55 - 145)			SW846 8081A
	97	(55 - 145)	26	(0-41)	SW846 8081A
Endrin ketone	97	(65 - 135)			SW846 8081A
	84	(65 - 135)	14	(0-32)	SW846 8081A
Endrin aldehyde	71	(35 - 145)			SW846 8081A
	71	(35 - 145)	0.71	(0-29)	SW846 8081A
alpha-Chlordane	83	(65 - 120)			SW846 8081A
	82	(65 - 120)	0.50	(0-65)	SW846 8081A
gamma-Chlordane	83	(65 - 125)			SW846 8081A
	83	(65 - 125)	0.76	(0-36)	SW846 8081A

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV3JM1A8-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250453-002 LV3JM1A9-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(70 - 125)
	85	(70 - 125)
Decachlorobiphenyl	89	(55 - 130)
	85	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV3JM1A8-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250453-002 LV3JM1A9-MSD
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
Prep Date.....: 02/26/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0057031
Dilution Factor: 1 **Initial Wgt/Vol:** 30.07 g **Final Wgt/Vol..:** 10 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
gamma-BHC (Lindane)	ND	35	31	ug/kg	87		SW846 8081A
	ND	35	30	ug/kg	85	1.9	SW846 8081A
Heptachlor	ND	35	26	ug/kg	72		SW846 8081A
	ND	35	26	ug/kg	74	2.7	SW846 8081A
Aldrin	ND	35	30	ug/kg	85		SW846 8081A
	ND	35	30	ug/kg	84	1.7	SW846 8081A
Dieldrin	ND	35	31	ug/kg	88		SW846 8081A
	ND	35	31	ug/kg	89	0.85	SW846 8081A
Endrin	ND	35	32	ug/kg	92		SW846 8081A
	ND	35	33	ug/kg	92	0.45	SW846 8081A
4,4'-DDT	ND	35	31	ug/kg	89		SW846 8081A
	ND	35	32	ug/kg	91	2.8	SW846 8081A
alpha-BHC	ND	35	32	ug/kg	89		SW846 8081A
	ND	35	31	ug/kg	87	2.6	SW846 8081A
beta-BHC	ND	35	29	ug/kg	81		SW846 8081A
	ND	35	28	ug/kg	78	3.5	SW846 8081A
delta-BHC	ND	35	31	ug/kg	88		SW846 8081A
	ND	35	31	ug/kg	87	2.1	SW846 8081A
Heptachlor epoxide	ND	35	30	ug/kg	84		SW846 8081A
	ND	35	29	ug/kg	83	1.8	SW846 8081A
Endosulfan I	ND	35	26	ug/kg	73		SW846 8081A
	ND	35	26	ug/kg	72	1.0	SW846 8081A
4,4'-DDE	ND	35	32	ug/kg	91		SW846 8081A
	ND	35	32	ug/kg	91	0.06	SW846 8081A
Endosulfan II	ND	35	27	ug/kg	77		SW846 8081A
	ND	35	26	ug/kg	75	2.9	SW846 8081A
4,4'-DDD	ND	35	32	ug/kg	90		SW846 8081A
	ND	35	32	ug/kg	90	0.10	SW846 8081A
Endosulfan sulfate	ND	35	32	ug/kg	92		SW846 8081A
	ND	35	32	ug/kg	90	2.1	SW846 8081A
Methoxychlor	ND	35	26	ug/kg	75		SW846 8081A
	ND	35	34	ug/kg	97	26	SW846 8081A
Endrin ketone	ND	35	34	ug/kg	97		SW846 8081A
	ND	35	30	ug/kg	84	14	SW846 8081A
Endrin aldehyde	ND	35	25	ug/kg	71		SW846 8081A
	ND	35	25	ug/kg	71	0.71	SW846 8081A
alpha-Chlordane	ND	35	29	ug/kg	83		SW846 8081A
	ND	35	29	ug/kg	82	0.50	SW846 8081A
gamma-Chlordane	ND	35	29	ug/kg	83		SW846 8081A
	ND	35	29	ug/kg	83	0.76	SW846 8081A

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV3JM1A8-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250453-002 LV3JM1A9-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(70 - 125)
	85	(70 - 125)
Decachlorobiphenyl	89	(55 - 130)
	85	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\008F0801.D
Lab Smp Id: LV3JM1A8 Client Smp ID: ATASB-008-5135-SO
Inj Date : 02-MAR-2010 03:46
Operator : 001754 Inst ID: a2hp9.i
Smp Info : LV3JM1A8
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 04-Mar-2010 06:34 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-pest.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.070	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.747	3.744	0.003	2199481	0.01805	0.1805		
4 alpha-BHC						CAS #: 319-84-6	
4.445	4.442	0.003	17441166	0.08660	28.80		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.858	4.856	0.002	15571353	0.08719	29.00		
6 beta-BHC						CAS #: 319-85-7	
5.003	5.001	0.002	3678241	0.08231	27.37		
7 delta-BHC						CAS #: 319-86-8	
5.244	5.242	0.002	15078963	0.08352	27.78		
		Sum of Peak Concentrations =			27.78		
8 Heptachlor						CAS #: 76-44-8	
5.561	5.557	0.004	7633137	0.08800	29.27		

```
--------------------------------------------------------------------------------
   10 Aldrin                                      CAS #: 309-00-2
6.076    6.072    0.004        12956518 0.07577    25.20
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.486	7.482	0.004	4182644	0.08671	28.84		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.792	7.788	0.004	4572262	0.08613	28.64		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.111	8.108	0.003	4301372	0.07822	26.01		
15 Endosulfan I						CAS #: 959-98-8	
8.370	8.366	0.004	3564667	0.06953	23.12		
16 4,4'-DDE						CAS #: 72-55-9	
8.443	8.442	0.001	12344180	0.08063	26.81		
17 Dieldrin						CAS #: 60-57-1	
8.889	8.886	0.003	13263689	0.08578	28.53		
18 Endrin						CAS #: 72-20-8	
9.318	9.315	0.003	4886439	0.08719	28.99		
20 4,4'-DDD						CAS #: 72-54-8	
9.637	9.637	0.000	9760726	0.08233	27.38		
22 Endosulfan II						CAS #: 33213-65-9	
9.743	9.740	0.003	4045955	0.07427	24.70		
23 4,4'-DDT						CAS #: 50-29-3	
10.131	10.129	0.002	9692954	0.08391	27.90		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.503	10.502	0.001	3014029	0.06577	21.87		
27 Methoxychlor						CAS #: 72-43-5	
11.035	11.034	0.001	4936728	0.08624	28.68		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.206	11.204	0.002	10168516	0.08638	28.72		
29 Endrin ketone						CAS #: 53494-70-5	
11.601	11.598	0.003	5541013	0.08398	27.93		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.161	13.158	0.003	987835	0.01582	0.1582		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\008F0801.D

Page 1

Date : 02-MAR-2010 03:46

Client ID: ATASB-008-5135-SO

Instrument: a2hp9.i

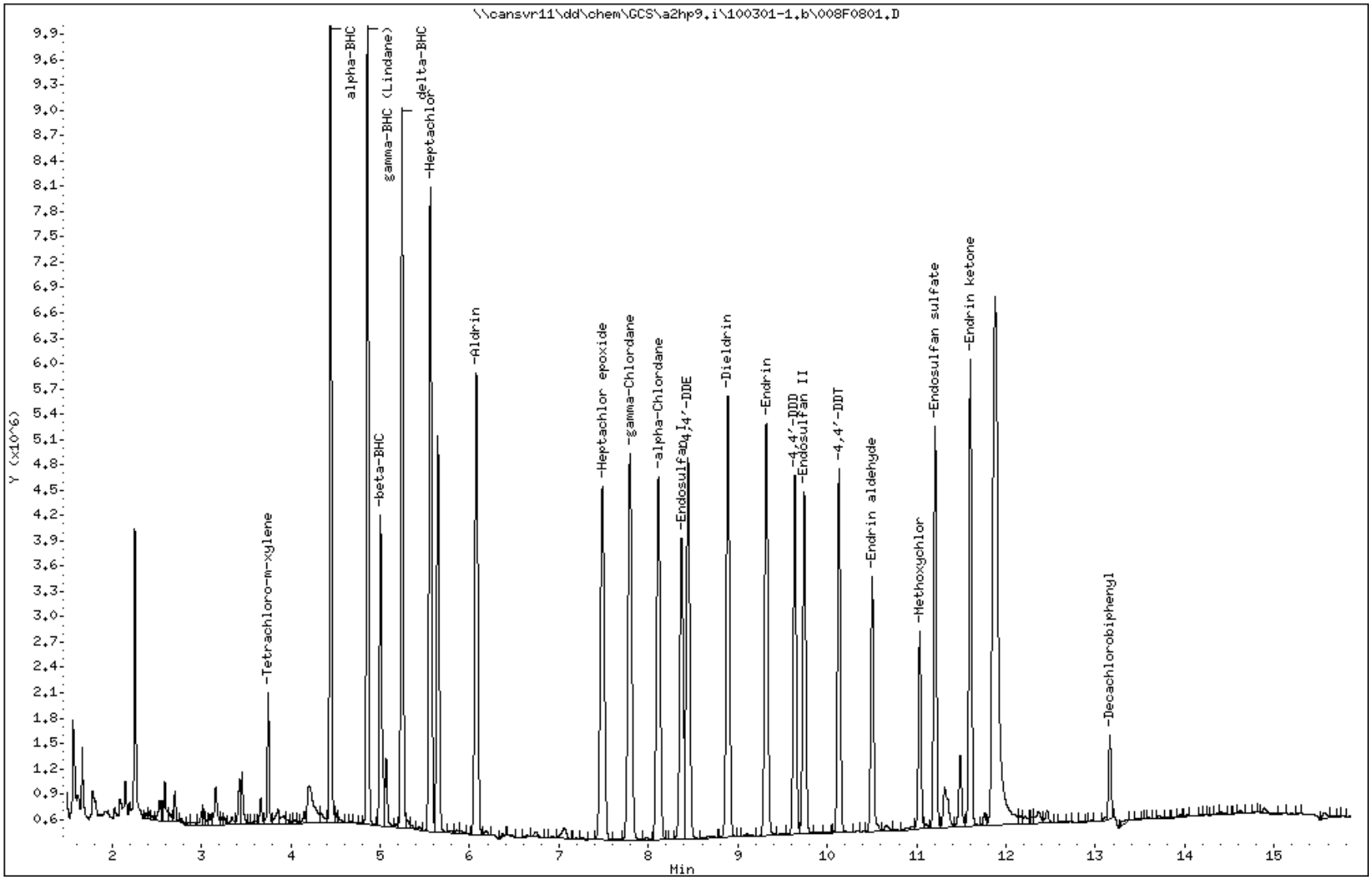
Sample Info: LV3JM1A8

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53

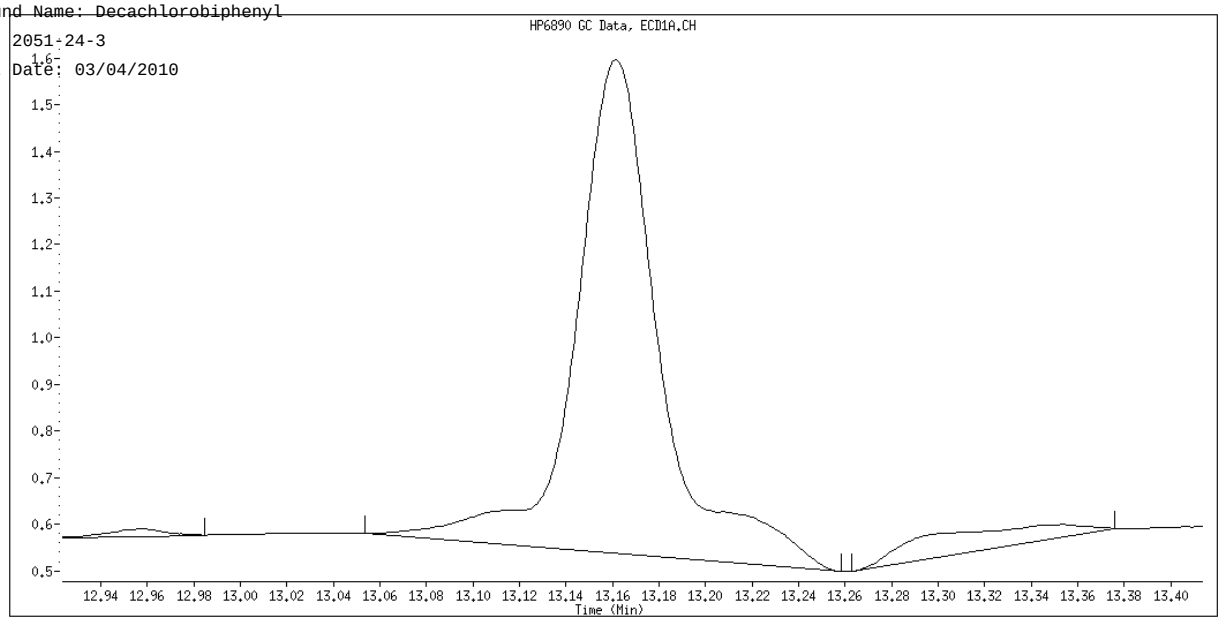


COMPOUNDS and EXP. RT REPORT

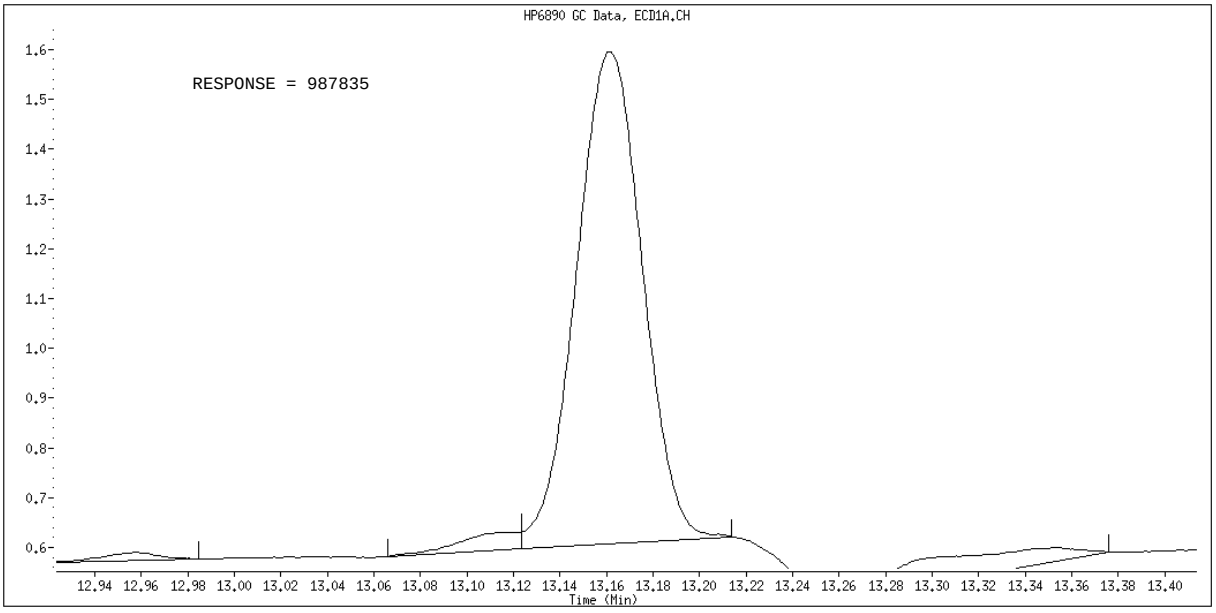
Operator: 001754 Date Acquired: 02-MAR-2010 03:46
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/008F0801.D
Lab Sample ID: LV3JM1A8
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.748	2199481	0.018	0.181 ug/Kg
4) alpha-BHC	4.445	17441166	0.087	28.801 ug/Kg
5) gamma-BHC (Lindane)	4.859	15571353	0.087	28.995 ug/Kg
6) beta-BHC	5.004	6938810	0.082	27.372 ug/Kg
7) delta-BHC	5.244	15078963	0.084	27.776 ug/Kg
8) Heptachlor	5.561	15654464	0.088	29.266 ug/Kg
10) Aldrin	6.076	12956518	0.076	25.198 ug/Kg
12) Heptachlor epoxide	7.486	13190232	0.087	28.836 ug/Kg
13) gamma-Chlordane	7.793	13781071	0.086	28.643 ug/Kg
14) alpha-Chlordane	8.112	12290109	0.078	26.011 ug/Kg
15) Endosulfan I	8.370	9719250	0.070	23.122 ug/Kg
16) 4,4'-DDE	8.444	12344180	0.081	26.815 ug/Kg
17) Dieldrin	8.889	13263689	0.086	28.527 ug/Kg
18) Endrin	9.319	12463655	0.087	28.994 ug/Kg
20) 4,4'-DDD	9.638	9760726	0.082	27.381 ug/Kg
22) Endosulfan II	9.744	9614486	0.074	24.701 ug/Kg
23) 4,4'-DDT	10.132	9692954	0.084	27.906 ug/Kg
25) Endrin aldehyde	10.504	6837956	0.066	21.873 ug/Kg
27) Methoxychlor	11.035	4936728	0.086	28.679 ug/Kg
28) Endosulfan sulfate	11.207	10168516	0.086	28.725 ug/Kg
29) Endrin ketone	11.601	11634983	0.084	27.928 ug/Kg
30) Decachlorobiphenyl	13.161	1952556	0.016	0.158 ug/Kg

Data File Name: 008F0801.D
Inj. Date and Time: 02-MAR-2010 03:46
Instrument ID: a2hp9.i
Client ID: ATASB-008-5135-SO
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/04/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\008F0801.D
Lab Smp Id: LV3JM1A8 Client Smp ID: ATASB-008-5135-SO
Inj Date : 02-MAR-2010 03:46
Operator : 001754 Inst ID: a2hp9.i
Smp Info : LV3JM1A8
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 04-Mar-2010 06:44 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-pest.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.070	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.330	4.327	0.003	900031	0.01707	0.1707		
4 alpha-BHC						CAS #: 319-84-6	
5.233	5.230	0.003	6036843	0.08957	29.79		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.876	5.872	0.004	9207228	0.08684	28.88		
6 beta-BHC						CAS #: 319-85-7	
6.078	6.074	0.004	3749576	0.08136	27.06		
7 delta-BHC						CAS #: 319-86-8	
6.721	6.717	0.004	9296183	0.08847	29.42		
8 Heptachlor						CAS #: 76-44-8	
6.834	6.829	0.005	7305998	0.07257	24.13		

```
   10 Aldrin                                      CAS #: 309-00-2
7.656    7.651    0.005         2743647 0.08551    28.44
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.021	9.018	0.003	7443248	0.08418	28.00		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.410	9.407	0.003	7215044	0.08340	27.74		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.698	9.695	0.003	7068007	0.08293	27.58		
15 Endosulfan I					CAS #: 959-98-8		
9.762	9.758	0.004	5799384	0.07309	24.31		
16 4,4'-DDE					CAS #: 72-55-9		
10.110	10.107	0.003	7047975	0.09158	30.46		
17 Dieldrin					CAS #: 60-57-1		
10.264	10.259	0.005	3262587	0.08798	29.26		
18 Endrin					CAS #: 72-20-8		
10.766	10.762	0.004	3177461	0.09179	30.53		
21 4,4'-DDD					CAS #: 72-54-8		
11.086	11.085	0.001	5231630	0.08984	29.88		
22 Endosulfan II					CAS #: 33213-65-9		
11.127	11.123	0.004	2646217	0.07717	25.66		
24 4,4'-DDT					CAS #: 50-29-3		
11.570	11.567	0.003	4788506	0.08895	29.58		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.676	11.673	0.003	1927351	0.07093	23.59		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.099	12.096	0.003	2853092	0.09185	30.54		
27 Methoxychlor					CAS #: 72-43-5		
12.623	12.621	0.002	2016033	0.07469	24.84		
29 Endrin ketone					CAS #: 53494-70-5		
12.836	12.834	0.002	3631271	0.09688	32.22		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.587	14.584	0.003	1174178	0.01783	0.1783		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\008F0801.D

Page 1

Date : 02-MAR-2010 03:46

Client ID: ATASB-008-5135-SO

Instrument: a2hp9.i

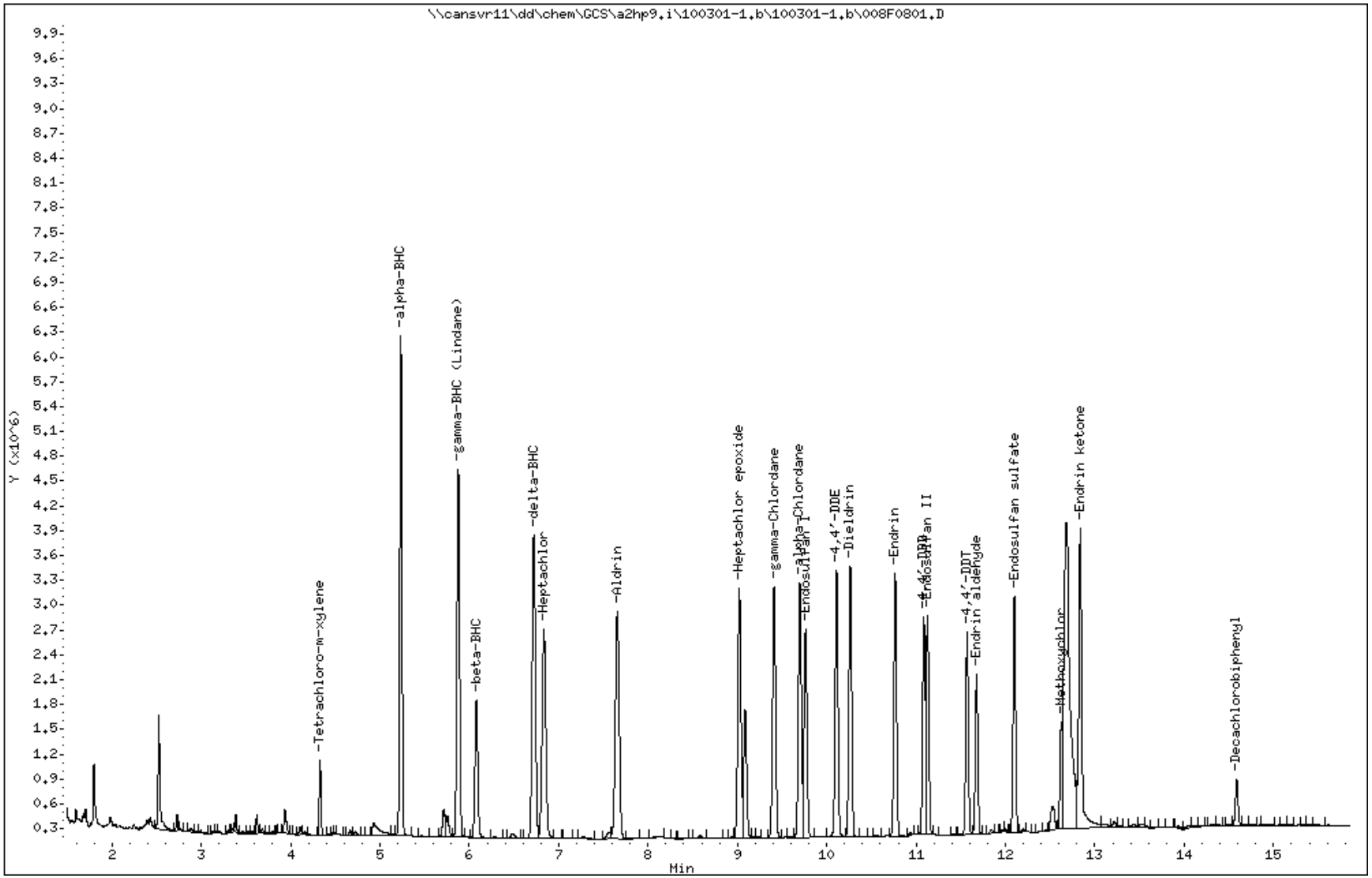
Sample Info: LV3JM1A8

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 03:46
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/008F0801.D
Lab Sample ID: LV3JM1A8
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.330	1203925	0.017	0.171 ug/Kg
4)	alpha-BHC	5.234	10385284	0.090	29.787 ug/Kg
5)	gamma-BHC (Lindane)	5.876	9207228	0.087	28.881 ug/Kg
6)	beta-BHC	6.079	3749576	0.081	27.056 ug/Kg
7)	delta-BHC	6.721	9296183	0.088	29.420 ug/Kg
8)	Heptachlor	6.834	7305998	0.073	24.132 ug/Kg
10)	Aldrin	7.656	8325402	0.086	28.437 ug/Kg
12)	Heptachlor epoxide	9.022	7443248	0.084	27.996 ug/Kg
13)	gamma-Chlordane	9.410	7215044	0.083	27.737 ug/Kg
14)	alpha-Chlordane	9.699	7068007	0.083	27.581 ug/Kg
15)	Endosulfan I	9.763	5799384	0.073	24.308 ug/Kg
16)	4,4'-DDE	10.110	7047975	0.092	30.457 ug/Kg
17)	Dieldrin	10.264	7215580	0.088	29.257 ug/Kg
18)	Endrin	10.766	6668012	0.092	30.526 ug/Kg
21)	4,4'-DDD	11.086	5231630	0.090	29.876 ug/Kg
22)	Endosulfan II	11.128	5355445	0.077	25.662 ug/Kg
24)	4,4'-DDT	11.570	4788506	0.089	29.582 ug/Kg
25)	Endrin aldehyde	11.676	3771360	0.071	23.588 ug/Kg
26)	Endosulfan sulfate	12.099	5533934	0.092	30.546 ug/Kg
27)	Methoxychlor	12.624	2016033	0.075	24.838 ug/Kg
29)	Endrin ketone	12.837	8877307	0.097	32.218 ug/Kg
30)	Decachlorobiphenyl	14.588	1174178	0.018	0.178 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\009F0901.D
Lab Smp Id: LV3JM1A9 Client Smp ID: ATASB-008-5135-SO
Inj Date : 02-MAR-2010 04:09
Operator : 001754 Inst ID: a2hp9.i
Smp Info : LV3JM1A9
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Meth Date : 04-Mar-2010 06:34 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-pest.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.020	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.747	3.744	0.003	2211843	0.01815	0.1815		
4 alpha-BHC						CAS #: 319-84-6	
4.444	4.442	0.002	17192988	0.08537	28.44		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.859	4.856	0.003	15186366	0.08503	28.32		
6 beta-BHC						CAS #: 319-85-7	
5.003	5.001	0.002	3532728	0.07905	26.33		
7 delta-BHC						CAS #: 319-86-8	
5.244	5.242	0.002	14912242	0.08260	27.51		
		Sum of Peak Concentrations =			27.51		
8 Heptachlor						CAS #: 76-44-8	
5.561	5.557	0.004	7483043	0.08627	28.74		

```
--------------------------------------------------------------------------------
   10 Aldrin                                      CAS #: 309-00-2
6.076    6.072    0.004        12960983 0.07580    25.25
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.484	7.482	0.002	4038186	0.08371	27.88		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.793	7.788	0.005	4429849	0.08345	27.80		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.111	8.108	0.003	4162939	0.07570	25.22		
15 Endosulfan I						CAS #: 959-98-8	
8.370	8.366	0.004	3493914	0.06815	22.70		
16 4,4'-DDE						CAS #: 72-55-9	
8.443	8.442	0.001	12105569	0.07907	26.34		
17 Dieldrin						CAS #: 60-57-1	
8.889	8.886	0.003	12991969	0.08402	27.99		
18 Endrin						CAS #: 72-20-8	
9.318	9.315	0.003	4886587	0.08719	29.04		
20 4,4'-DDD						CAS #: 72-54-8	
9.637	9.637	0.000	9543221	0.08050	26.82		
22 Endosulfan II						CAS #: 33213-65-9	
9.743	9.740	0.003	3952739	0.07256	24.17		
23 4,4'-DDT						CAS #: 50-29-3	
10.131	10.129	0.002	9591828	0.08304	27.66		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.503	10.502	0.001	2937233	0.06410	21.35		
27 Methoxychlor						CAS #: 72-43-5	
11.034	11.034	0.000	4836314	0.08448	28.14		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.207	11.204	0.003	9738718	0.08272	27.56		
29 Endrin ketone						CAS #: 53494-70-5	
11.599	11.598	0.001	5235688	0.07935	26.43		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.161	13.158	0.003	964218	0.01545	0.1544		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\009F0901.D

Date : 02-MAR-2010 04:09

Client ID: ATASB-008-5135-SO

Instrument: a2hp9.i

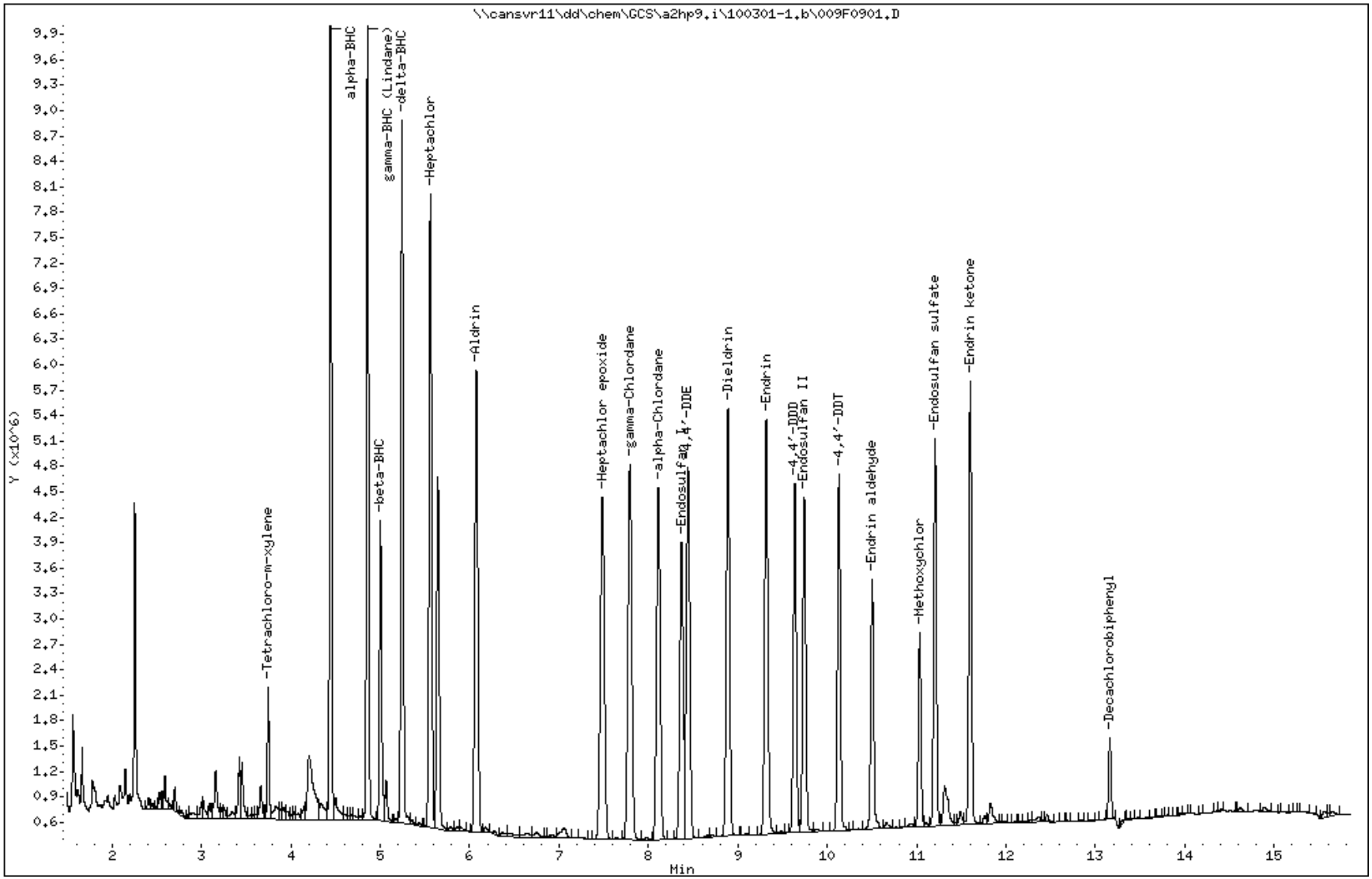
Sample Info: LV3JM1A9

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides I

Column diameter: 0.53

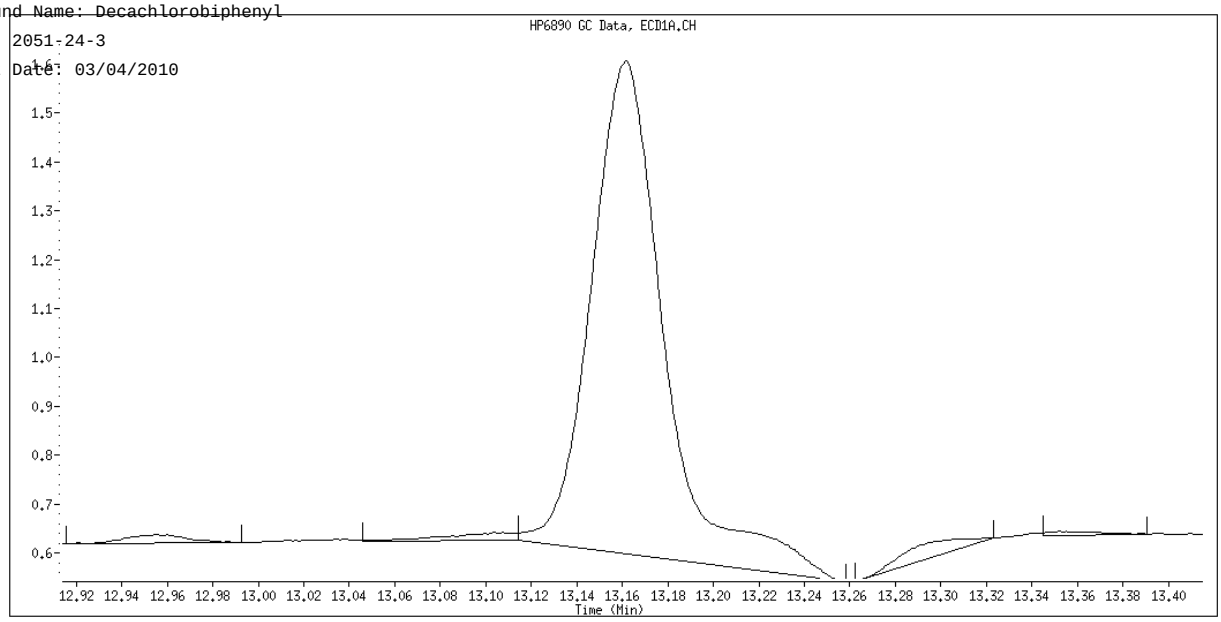


COMPOUNDS and EXP. RT REPORT

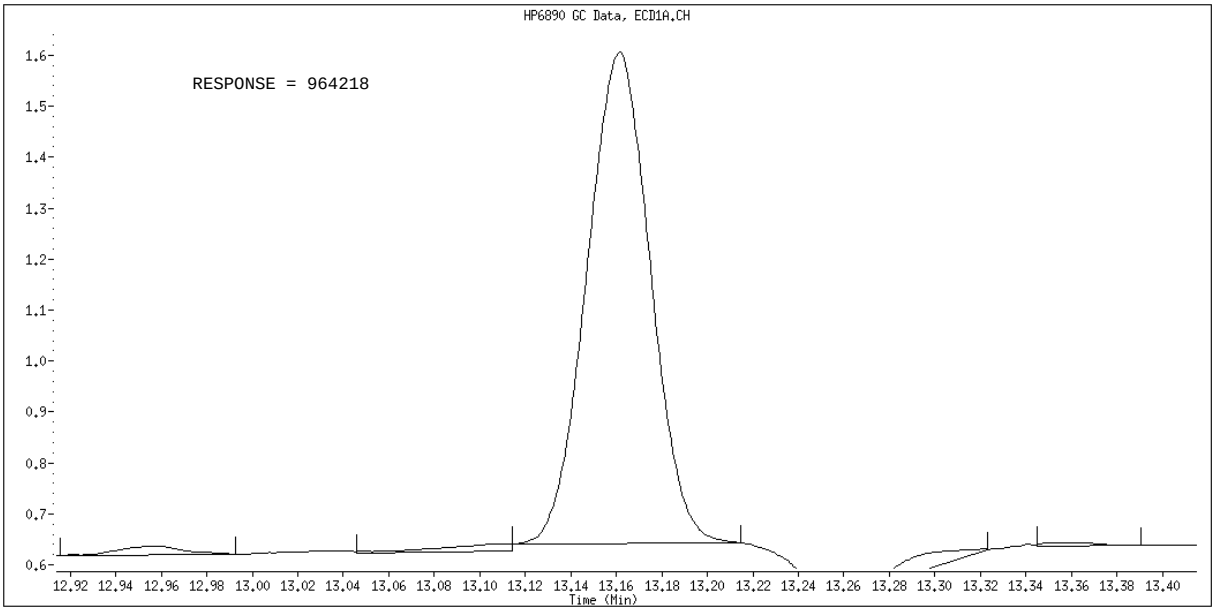
Operator: 001754 Date Acquired: 02-MAR-2010 04:09
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/009F0901.D
Lab Sample ID: LV3JM1A9
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	3.747	2211843	0.018	0.182 ug/Kg
4)	alpha-BHC	4.445	17192988	0.085	28.438 ug/Kg
5)	gamma-BHC (Lindane)	4.859	15186366	0.085	28.325 ug/Kg
6)	beta-BHC	5.003	6159325	0.079	26.333 ug/Kg
7)	delta-BHC	5.245	14912242	0.083	27.514 ug/Kg
8)	Heptachlor	5.562	15239249	0.086	28.738 ug/Kg
10)	Aldrin	6.077	12960983	0.076	25.248 ug/Kg
12)	Heptachlor epoxide	7.484	12835748	0.084	27.886 ug/Kg
13)	gamma-Chlordane	7.793	13420832	0.083	27.797 ug/Kg
14)	alpha-Chlordane	8.112	11954617	0.076	25.216 ug/Kg
15)	Endosulfan I	8.371	9483469	0.068	22.701 ug/Kg
16)	4,4'-DDE	8.443	12105569	0.079	26.340 ug/Kg
17)	Dieldrin	8.890	12991969	0.084	27.989 ug/Kg
18)	Endrin	9.318	12296961	0.087	29.044 ug/Kg
20)	4,4'-DDD	9.637	9543221	0.080	26.815 ug/Kg
22)	Endosulfan II	9.743	9385880	0.073	24.172 ug/Kg
23)	4,4'-DDT	10.132	9591828	0.083	27.660 ug/Kg
25)	Endrin aldehyde	10.503	6815323	0.064	21.351 ug/Kg
27)	Methoxychlor	11.035	4836314	0.084	28.142 ug/Kg
28)	Endosulfan sulfate	11.207	9738718	0.083	27.556 ug/Kg
29)	Endrin ketone	11.600	11037593	0.079	26.433 ug/Kg
30)	Decachlorobiphenyl	13.162	1869880	0.015	0.154 ug/Kg

Data File Name: 009F0901.D
Inj. Date and Time: 02-MAR-2010 04:09
Instrument ID: a2hp9.i
Client ID: ATASB-008-5135-SO
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/04/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\009F0901.D
Lab Smp Id: LV3JM1A9 Client Smp ID: ATASB-008-5135-SO
Inj Date : 02-MAR-2010 04:09
Operator : 001754 Inst ID: a2hp9.i
Smp Info : LV3JM1A9
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Meth Date : 04-Mar-2010 06:44 vandorenc Quant Type: ESTD
Cal Date : 22-FEB-2010 13:53 Cal File: 008F0801.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-pest.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.020	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.329	4.327	0.002	894124	0.01696	0.1696		
4 alpha-BHC						CAS #: 319-84-6	
5.234	5.230	0.004	5870933	0.08711	29.02		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.876	5.872	0.004	9016896	0.08505	28.33		
6 beta-BHC						CAS #: 319-85-7	
6.078	6.074	0.004	3614668	0.07843	26.13		
7 delta-BHC						CAS #: 319-86-8	
6.721	6.717	0.004	9087592	0.08648	28.81		
8 Heptachlor						CAS #: 76-44-8	
6.835	6.829	0.006	7493461	0.07443	24.79		

```
   10 Aldrin                                      CAS #: 309-00-2
7.656    7.651    0.005         2692260 0.08391    27.95
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.022	9.018	0.004	7303138	0.08260	27.51		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.410	9.407	0.003	7149539	0.08265	27.53		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.699	9.695	0.004	7019333	0.08236	27.44		
15 Endosulfan I					CAS #: 959-98-8		
9.763	9.758	0.005	5730106	0.07222	24.06		
16 4,4'-DDE					CAS #: 72-55-9		
10.110	10.107	0.003	7031282	0.09137	30.44		
17 Dieldrin					CAS #: 60-57-1		
10.264	10.259	0.005	3284926	0.08858	29.51		
18 Endrin					CAS #: 72-20-8		
10.766	10.762	0.004	3186953	0.09207	30.67		
21 4,4'-DDD					CAS #: 72-54-8		
11.086	11.085	0.001	5218392	0.08961	29.85		
22 Endosulfan II					CAS #: 33213-65-9		
11.128	11.123	0.005	2566765	0.07485	24.93		
24 4,4'-DDT					CAS #: 50-29-3		
11.569	11.567	0.002	4916991	0.09134	30.42		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.676	11.673	0.003	1938392	0.07134	23.76		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.099	12.096	0.003	2787842	0.08975	29.90		
27 Methoxychlor					CAS #: 72-43-5		
12.622	12.621	0.001	2611851	0.09676	32.23		
29 Endrin ketone					CAS #: 53494-70-5		
12.837	12.834	0.003	3139884	0.08377	27.90		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.586	14.584	0.002	1125673	0.01709	0.1709		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\100301-1.b\009F0901.D

Page 1

Date : 02-MAR-2010 04:09

Client ID: ATASB-008-5135-SO

Instrument: a2hp9.i

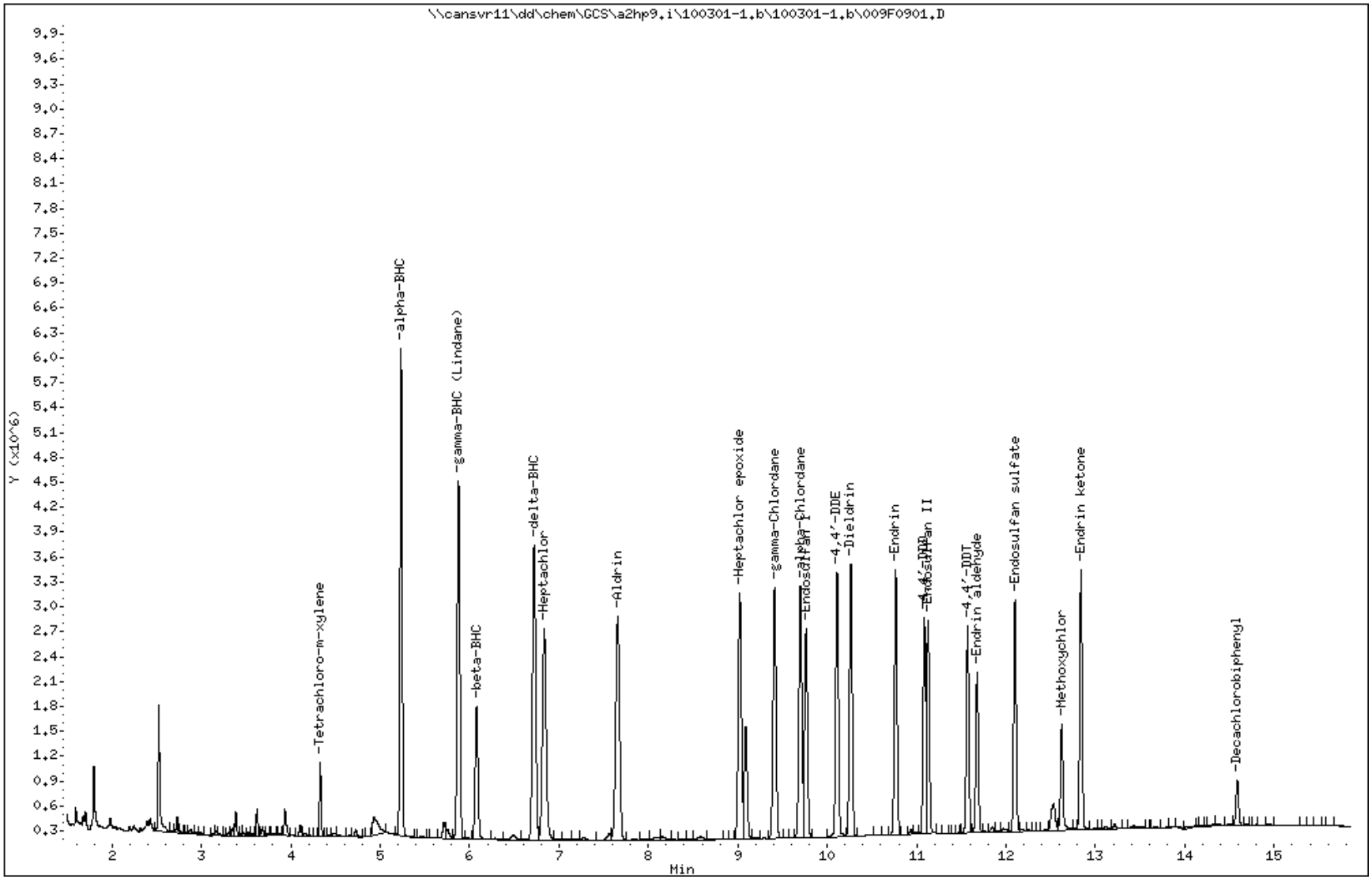
Sample Info: LV3JM1A9

Volume Injected (uL): 1.0

Operator: 001754

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 02-MAR-2010 04:09
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100301-1.b/100301-1.b/009F0901.D
Lab Sample ID: LV3JM1A9
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100301-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.330	1200736	0.017	0.170 ug/Kg
4)	alpha-BHC	5.234	10060484	0.087	29.017 ug/Kg
5)	gamma-BHC (Lindane)	5.877	9016896	0.085	28.331 ug/Kg
6)	beta-BHC	6.078	3614668	0.078	26.126 ug/Kg
7)	delta-BHC	6.722	9087592	0.086	28.808 ug/Kg
8)	Heptachlor	6.836	7493461	0.074	24.793 ug/Kg
10)	Aldrin	7.657	8247036	0.084	27.951 ug/Kg
12)	Heptachlor epoxide	9.022	7303138	0.083	27.515 ug/Kg
13)	gamma-Chlordane	9.411	7149539	0.083	27.531 ug/Kg
14)	alpha-Chlordane	9.700	7019333	0.082	27.436 ug/Kg
15)	Endosulfan I	9.763	5730106	0.072	24.058 ug/Kg
16)	4,4'-DDE	10.111	7031282	0.091	30.435 ug/Kg
17)	Dieldrin	10.264	7170309	0.089	29.507 ug/Kg
18)	Endrin	10.767	6593732	0.092	30.668 ug/Kg
21)	4,4'-DDD	11.087	5218392	0.090	29.850 ug/Kg
22)	Endosulfan II	11.128	5266766	0.075	24.933 ug/Kg
24)	4,4'-DDT	11.570	4916991	0.091	30.426 ug/Kg
25)	Endrin aldehyde	11.677	3859464	0.071	23.763 ug/Kg
26)	Endosulfan sulfate	12.100	5451374	0.090	29.897 ug/Kg
27)	Methoxychlor	12.622	2611851	0.097	32.232 ug/Kg
29)	Endrin ketone	12.837	6060547	0.084	27.905 ug/Kg
30)	Decachlorobiphenyl	14.587	1125673	0.017	0.171 ug/Kg

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MISCELLANEOUS DATA

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp9.i

Standards Codes:	Routine Maintenance Performed:	Date: 04-FEB-2010 10:17
	Cut & Cleaned: ( )	QC Batch: 100204IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
003F0301.D	CALIB_1	TOX1 G268	3	1	093905		
004F0401.D	CALIB_2	TOX2 G268	4	1	093905		
005F0501.D	CALIB_3	TOX3 G268	5	1	093905		
006F0601.D	CALIB_4	TOX4 G268	6	1	093905		
014F1401.D	CALIB_5	TOX5 G268	14	1	093905		

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp9.i

Standards Codes:	Routine Maintenance Performed:	Date: 22-FEB-2010 11:24
	Cut & Cleaned: ( )	QC Batch: 100222IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	PEM	PEM E006	2	1	093905		
003F0301.D	CALIB_1	AB1 G250	3	1	093905		
004F0401.D	CALIB_2	AB2 G251	4	1	093905		
005F0501.D	CALIB_3	AB3 G252	5	1	093905		
006F0601.D	CALIB_4	AB4 G253	6	1	093905		
007F0701.D	CALIB_5	AB5 G254	7	1	093905		
008F0801.D	CALIB_6	AB6 G255	8	1	093905		
009F0901.D	CCALIB_3	ICV	9	1	093905		

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp9.i

Standards Codes:	Routine Maintenance Performed:	Date: 02-MAR-2010 00:43
	Cut & Cleaned: ( )	QC Batch: 100301-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	PEM	PEM E006	2	1	001754		
003F0301.D	CCALIB_3	AB3 G252	3	1	001754		
004F0401.D	CCALIB_3	TOX3	4	1	001754		
006F0601.D	MRL	MRL	6	1	001754		
007F0701.D	ATASB-008-5135-SO	LV3JM1AE	7	1	001754		
008F0801.D	ATASB-008-5135-SO	LV3JM1A8	8	1	001754		
009F0901.D	ATASB-008-5135-SO	LV3JM1A9	9	1	001754		
010F1001.D	LV4JRBLK	LV4JR1AA	10	1	001754		
011F1101.D	LV4JRCHK	LV4JR1AC	11	1	001754		
017F1701.D	CCALIB_3	AB3	17	1	001754		
018F1801.D	MRL	MRL	18	1	001754		
022F2201.D	PEM	PEM	22	1	001754		
024F2401.D	CCALIB_3	TOX3	24	1	001754		

Witnessed By: Date: Page No. _____

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/9/2010
Time: 15:54:59

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
			_	_	computer batch: correct & Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 401204 Michele Arteno

Concentrationist: 404000 Chris Coast

Reviewer/Date: COASTC / 2/27/10

QC BATCH: 0057031

PREP DATE: 2/26/10
COMP DATE: 2/27/10

Pesticides (8081A)
SOXHLET (NONE,Na2SO4)
SW846 3540C

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	0/0/0	A0B260000-031 **LV4JR-1-AA B**		11	QJ	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	0/0/0	A0B260000-031 **LV4JR-1-AC C**		11	QJ	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #4620 1ML 2/.2 #4621
COMMENTS:															
3/10/10	3/04/10	A0B250453-002 **LV3JM-1-A8 S**	D	11	QJ	SOLID	30.07g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #4620 1ML 2/.2 #4621
COMMENTS:															
3/10/10	3/04/10	A0B250453-002 **LV3JM-1-A9 D**	D	11	QJ	SOLID	30.02g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #4620 1ML 2/.2 #4621
COMMENTS:															
3/10/10	3/04/10	A0B250453-002 **LV3JM-1-AE**	D	11	QJ	SOLID	30.16g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															

1019

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0057031

PREP DATE: 2/26/10
COMP DATE: 2/27/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID

S&S BY MMA

DCM/ACE #J03E07 HEXANE #H46E60 NA2S04 #H35594 BALANCE #B025

ASSOC SAMPLE & BLK W/0057030; ASSOC BLK W/0057029

NUMBER OF WORK ORDERS IN BATCH: 5

1020

North Canton

Lot/SDG Number: **A0B250453**

Sample Control Chain of Custody - TAL North Canton
GC Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0B250453-002	LV3JM1AE	Pesticides (8081A)	02/26/10	Michele Arteno	02/27/10	Chris Coast	03/02/10	Carolyn Van Doren

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POLYCHLORINATED BIPHENYLS DATA

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QC SUMMARY DATA

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B250453

Extraction: XXA63QHWA

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	ATASB-008-5135-SO	97	103	00
02	METHOD BLK. LV4JQ1AA	98	117	00
03	LCS LV4JQ1AC	76	105	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(40-140)
SRG02	= Decachlorobiphenyl	(60-125)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B250453

Extraction: XXI60QH8E

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	INTRA-LAB QC	74	68	00
02	LAB MS/MSD D	93	86	00
03	LAB MS/MSD S	92	88	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(27-130)
SRG02	= Decachlorobiphenyl	(10-127)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4JQ1AC
BATCH: 0057030

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	330	270	82	40- 140	
Aroclor 1260	330	310	92	60- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A0B240440 WO #: LV14F1EH
BATCH: 0057032

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aroclor 1016	21	ND	18	86	10- 166	
Aroclor 1260	21	ND	18	85	21- 140	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A0B240440 WO #: LV14F1EJ
BATCH: 0057032

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aroclor 1016	21	17	81	5.6	30	10- 166	
Aroclor 1260	21	17	83	2.8	30	21- 140	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV4JQ1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: 011F1101.

Lot Number: A0B250453

Matrix: SOLID

Extraction Method:

Date Extracted: 02/26/10

Date Analyzed(1): 03/02/10

Date Analyzed(2): N/A

Time Analyzed(1): 13:38

Time Analyzed(2): N/A

Instrument ID(1): P13

Instrument ID(2): N/A

GC Column(1): PEST CLP1 ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	ATASB-008-5135-SO	LV3JM1AF	03/02/10	N/A
02	CHECK SAMPLE	LV4JQ1AC C	03/02/10	N/A
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

TestAmerica
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SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

GC Semivolatiles

Lot-Sample #...: A0B250453-002 **Work Order #...:** LV3JM1AF **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
Prep Date.....: 02/26/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0057030
Dilution Factor: 1 **Initial Wgt/Vol:** 30.16 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 5.9 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	35	ug/kg	22
Aroclor 1221	ND	35	ug/kg	17
Aroclor 1232	ND	35	ug/kg	15
Aroclor 1242	ND	35	ug/kg	14
Aroclor 1248	ND	35	ug/kg	18
Aroclor 1254	ND	35	ug/kg	18
Aroclor 1260	ND	35	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	97	(40 - 140)
Decachlorobiphenyl	103	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100302-1.b\010F1001.D
Lab Smp Id: LV3JM1AF Client Smp ID: ATASB-008-5135-SO
Inj Date : 02-MAR-2010 13:23
Operator : Inst ID: a2hp13.i
Smp Info : LV3JM1AF
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100302-1.b\PCB13.m
Meth Date : 02-Mar-2010 12:46 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.160	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.154	0.008	2419783	0.01948	6.458		
2 AROCLOR-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

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6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Compound Not Detected

---

8 AROCLOR-1260 CAS #: 11096-82-5

Compound Not Detected

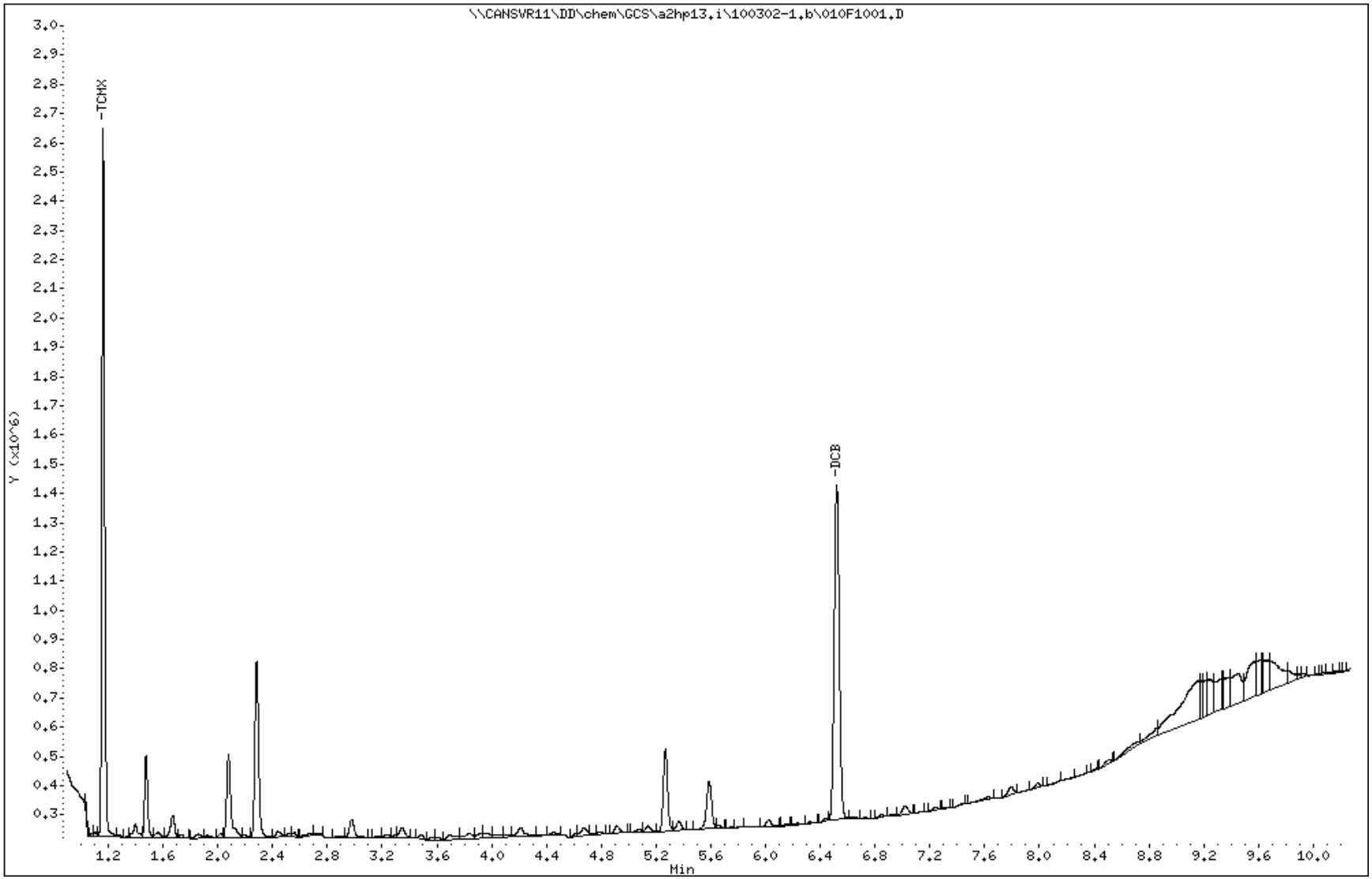
M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

$ 9 DCB CAS #: 2051-24-3

6.519	6.520	-0.001	1142763	0.02060	6.830		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\010F1001.D
Date : 02-MAR-2010 13:23
Client ID: ATASB-008-5135-SO
Instrument: a2hp13.i
Sample Info: LV3JM1AF
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 09-Feb-2010 07:53

Calibration History

Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Start Cal Date: 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
09-FEB-2010 01:06	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
08-FEB-2010 23:37	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
08-FEB-2010 22:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
08-FEB-2010 20:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
08-FEB-2010 19:06	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
08-FEB-2010 17:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
08-FEB-2010 16:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Cal Level: 2 , Cal Amount: 0.10000		
09-FEB-2010 01:21	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
08-FEB-2010 23:52	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
08-FEB-2010 22:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
08-FEB-2010 20:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
08-FEB-2010 19:21	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
08-FEB-2010 17:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
08-FEB-2010 16:21	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Cal Level: 3 , Cal Amount: 0.20000		
09-FEB-2010 01:37	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
09-FEB-2010 00:06	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
08-FEB-2010 22:36	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
08-FEB-2010 21:07	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
08-FEB-2010 19:36	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D

08-FEB-2010 18:06	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
08-FEB-2010 16:36	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D

Cal Level: 4 , Cal Amount: 0.50000		
09-FEB-2010 01:52	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
09-FEB-2010 00:21	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
08-FEB-2010 22:52	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
08-FEB-2010 21:21	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
08-FEB-2010 19:51	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
08-FEB-2010 18:22	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
08-FEB-2010 16:51	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D

Cal Level: 5 , Cal Amount: 1.00000		
09-FEB-2010 02:07	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
09-FEB-2010 00:36	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
08-FEB-2010 23:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
08-FEB-2010 21:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
08-FEB-2010 20:07	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
08-FEB-2010 18:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
08-FEB-2010 17:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D

Cal Level: 6 , Cal Amount: 2.00000		
09-FEB-2010 02:22	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
09-FEB-2010 00:51	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
08-FEB-2010 23:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
08-FEB-2010 21:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
08-FEB-2010 20:22	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
08-FEB-2010 18:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
08-FEB-2010 17:22	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Report Date : 09-Feb-2010 07:53

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Last Edit : 09-Feb-2010 07:52 hassl
Curve Type : Average

Calibration File Names:
Level 1: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Level 2: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Level 3: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Level 4: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Level 5: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Level 6: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D

Compound	0.05000 Level 1	0.10000 Level 2	0.20000 Level 3	0.50000 Level 4	1.000 Level 5	2.000 Level 6	___ RRF	% RSD
2 AROCLOR-1221(1)	1306940	1261280	1179165	1169896	989175	909796	1136042	13.674
(2)	848240	794010	784965	774110	668032	639907	751544	10.681
(3)	2901680	2862920	2673915	2559794	2174478	1945211	2519666	15.251
3 AROCLOR-1016(1)	4106480	3975500	3727870	3409518	3191408	2928167	3556491	12.929
(2)	7038600	6687300	6384465	6001140	5678041	5137023	6154428	11.267
(3)	14025840	13815520	13470015	13072122	12630703	10858982	12978864	8.893
(4)	5729340	5459910	5452295	5333418	5176357	4804463	5325964	5.884
(5)	5725180	5578090	5260970	5267902	5179034	4809780	5303493	6.055
4 AROCLOR-1232(1)	4150880	4107690	3843030	3594492	3487449	3112055	3715933	10.700
(2)	3168460	3401350	2934240	2696426	2717869	2409100	2887908	12.382
(3)	6047640	7023220	5583235	5218464	5054049	4703976	5605097	14.868
(4)	2247740	2394600	2167130	2096476	2210230	2010983	2187860	6.025
(5)	2239020	3020540	2058190	1892622	2012566	1847953	2178482	19.963
5 AROCLOR-1242(1)	3059460	3058220	2813060	2663436	2414223	2236483	2707480	12.447
(2)	5623480	5399410	5129105	4905296	4430570	4035099	4920493	12.164
(3)	11459840	10127500	9710045	9885966	9438043	8448522	9844986	9.976
(4)	4461940	4312190	4099605	4303376	3887106	3695834	4126675	7.038
(5)	4621020	4384980	4003575	4329668	3860688	3716228	4152693	8.360
6 AROCLOR-1248(1)	1454000	1420260	1370060	1274220	1169565	1086400	1295751	11.252
(2)	3010900	2790060	2820630	2659656	2569180	2369471	2703316	8.226
(3)	3202040	2933820	2928695	2752738	2628508	2366817	2802103	10.286
(4)	2403200	2197730	2249250	2094066	2089068	1918367	2158613	7.648
(5)	1482160	1424600	1450795	1319634	1353246	1245505	1379323	6.475
7 AROCLOR-1254(1)	2716440	2528470	2332960	2201306	2139507	1996557	2319207	11.442
(2)	3571720	3326230	3062695	2881644	2809567	2601374	3042205	11.721
(3)	4620300	4376080	4095535	3876656	3849058	3674586	4082036	8.757
(4)	3123100	3067400	2852090	2632426	2649791	2582812	2817937	8.315
(5)	3726220	3674840	3472475	3160374	3181404	3086601	3383652	8.244

Report Date : 09-Feb-2010 07:53

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Last Edit : 09-Feb-2010 07:52 hassl
Curve Type : Average

Compound	0.05000 Level 1	0.10000 Level 2	0.20000 Level 3	0.50000 Level 4	1.000 Level 5	2.000 Level 6	___ RRF	% RSD	
8 AROCLOR-1260 (1)	3216600	3314960	3014060	3008766	2930328	2625282	3018333	7.974	
(2)	4469260	4635280	4267265	4196426	4152767	3637914	4226485	8.062	
(3)	3947260	4191690	3889460	3841998	3851293	3383380	3850847	6.827	
(4)	5717600	6183230	6008290	5841704	5808119	4984962	5757318	7.171	
(5)	3057940	3341190	3178210	3083408	3085732	2652223	3066451	7.441	
13 AROCLOR-1262 (1)	2645180	2546250	2456525	2267548	2088075	2101119	2350783	9.964	
(2)	3506460	3367880	3198265	2990014	2796289	2804869	3110629	9.508	
(3)	4060880	3916100	3752905	3497380	3287716	3277441	3632070	9.062	
(4)	6888620	6801320	6569130	6292972	5871569	5904541	6388025	6.873	
(5)	2712680	2535220	2453775	2366522	2235996	2266865	2428510	7.362	
14 AROCLOR-1268 (1)	9211780	8938980	8022590	8722446	8455422	7663883	8502517	6.813	
(2)	8526060	8388300	7599130	8268058	8025460	7263962	8011828	6.119	
(3)	7014100	6818040	6152720	6789050	6622531	6048634	6574179	5.912	
(4)	3030600	3000890	2575970	2866612	2907263	2571629	2825494	7.217	
(5)	22033560	21701080	18770780	20305356	20048105	17711797	20095113	8.272	
M 15 TOTAL PCB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 1 TCMX	148213600	122641000	128687500	117843000	115503980	112511980	124233510	10.507	
$ 9 DCB	57004000	62043200	60081600	54615440	54969080	44117220	55471757	11.307	

TestAmerica North Canton

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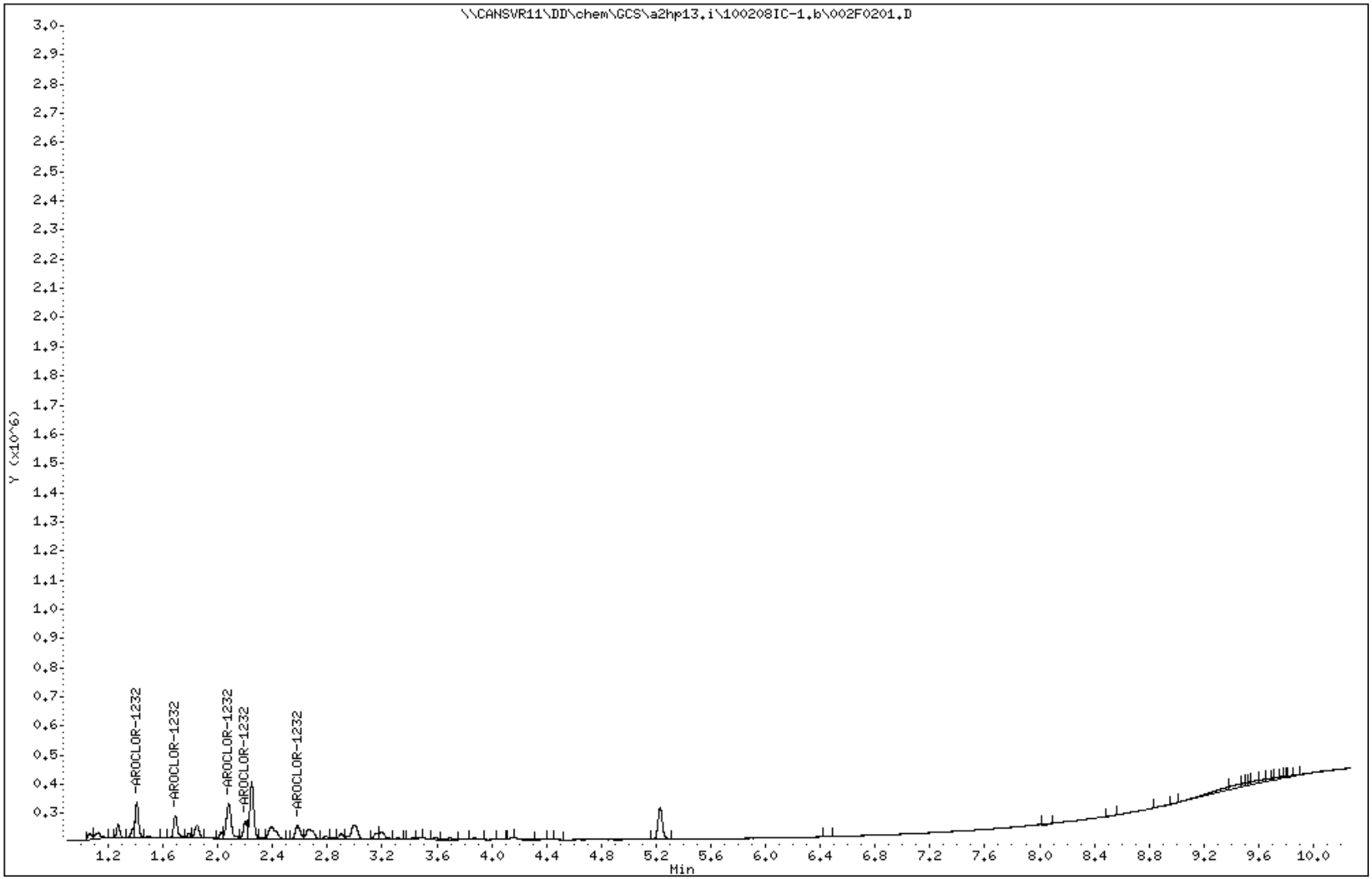
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:06
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,1
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	207544	0.05000	0.05454	75.00- 125.00	100.00
1.689	1.691	-0.002	158423	0.05000	0.05486	56.26- 93.77	76.33
2.079	2.083	-0.004	302382	0.05000	0.05395	108.88- 181.47	145.70
2.201	2.203	-0.002	112387	0.05000	0.05137	43.74- 72.91	54.15
2.582	2.584	-0.002	111951	0.05000	0.05139	39.49- 65.82	53.94
		Average of Peak Amounts =			0.05322		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Date : 08-FEB-2010 16:06
Client ID:
Sample Info: 1232,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

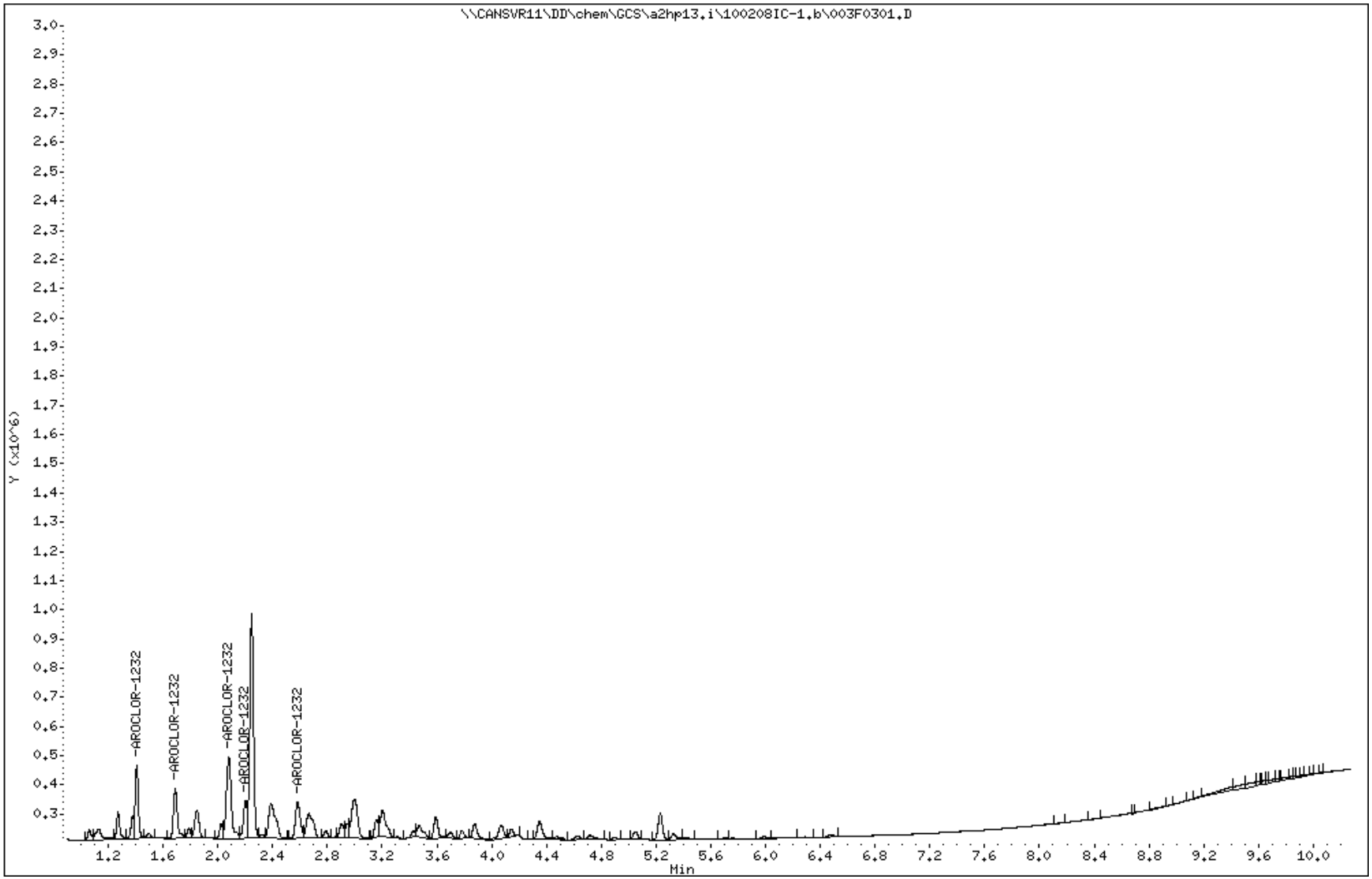
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:21
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,2
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	410769	0.10000	0.1080	75.00- 125.00	100.00
1.688	1.691	-0.003	340135	0.10000	0.1178	56.26- 93.77	82.80
2.080	2.083	-0.003	702322	0.10000	0.1253	108.88- 181.47	170.98
2.201	2.203	-0.002	239460	0.10000	0.1094	43.74- 72.91	58.30
2.583	2.584	-0.001	302054	0.10000	0.1386	39.49- 65.82	73.53
		Average of Peak Amounts =			0.11982		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Date : 08-FEB-2010 16:21
Client ID:
Sample Info: 1232,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

PCB 8082/608

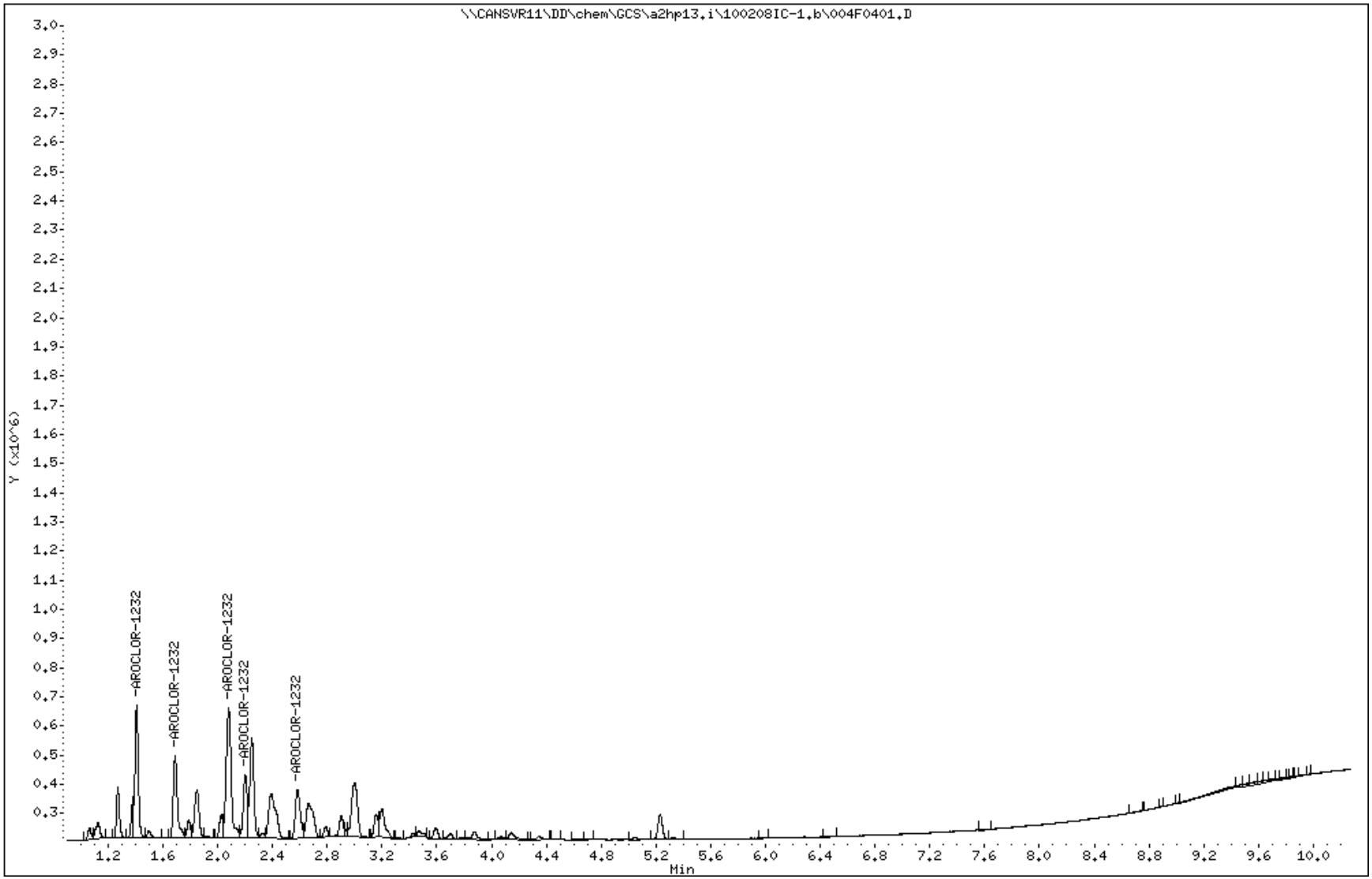
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:36
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,3
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.407	1.410	-0.003	768606	0.20000	0.2020	75.00- 125.00	100.00
1.688	1.691	-0.003	586848	0.20000	0.2032	56.26- 93.77	76.35
2.079	2.083	-0.004	1116647	0.20000	0.1992	108.88- 181.47	145.28
2.199	2.203	-0.004	433426	0.20000	0.1981	43.74- 72.91	56.39
2.580	2.584	-0.004	411638	0.20000	0.1890	39.49- 65.82	53.56
		Average of Peak Amounts =			0.19830		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D
Date : 08-FEB-2010 16:36
Client ID:
Sample Info: 1232,,1,3

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

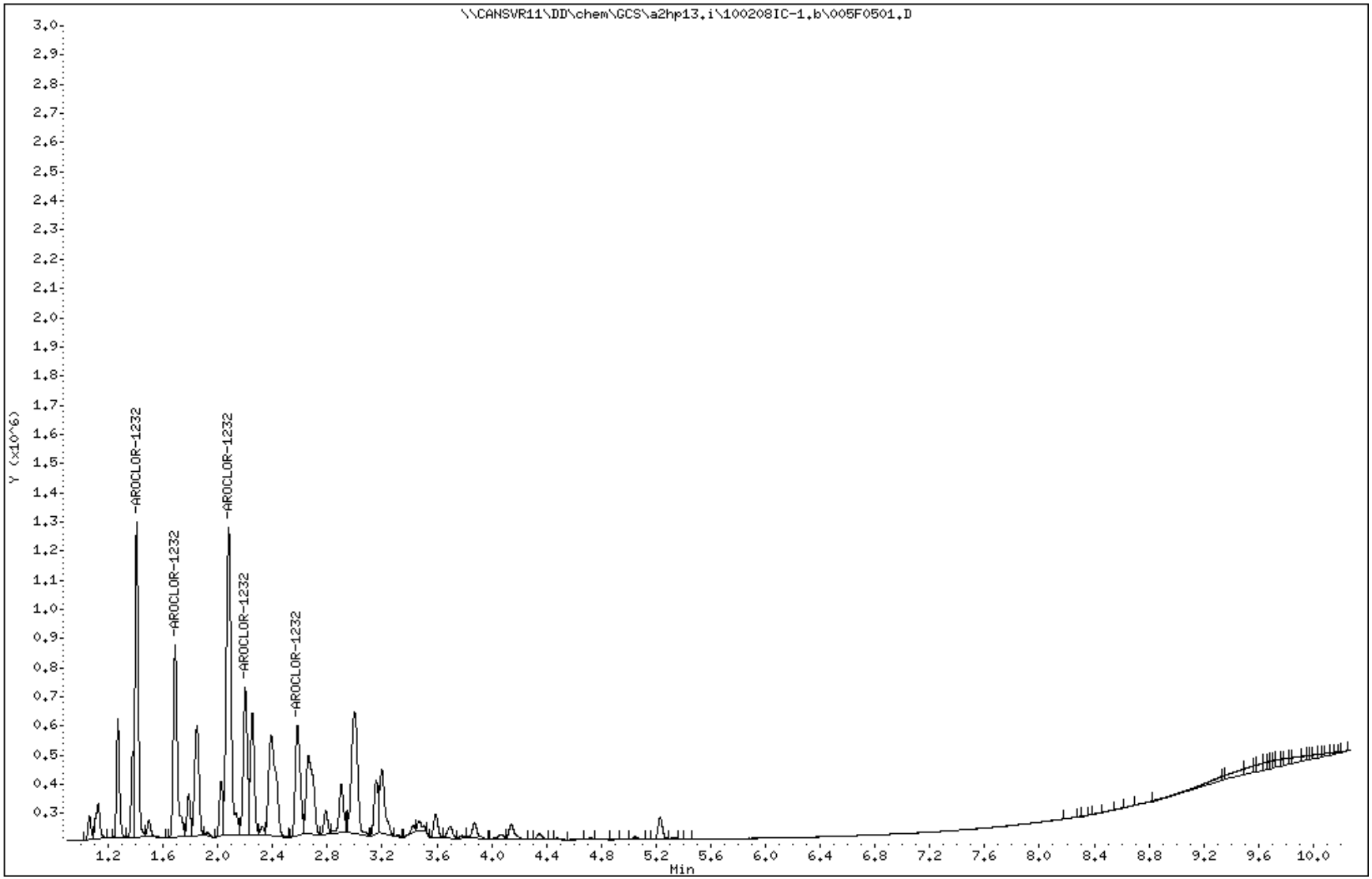
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:51
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,4
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.407	1.410	-0.003	1797246	0.50000	0.4723	75.00- 125.00	100.00
1.687	1.691	-0.004	1348213	0.50000	0.4668	56.26- 93.77	75.02
2.079	2.083	-0.004	2609232	0.50000	0.4655	108.88- 181.47	145.18
2.199	2.203	-0.004	1048238	0.50000	0.4791	43.74- 72.91	58.32
2.580	2.584	-0.004	946311	0.50000	0.4344	39.49- 65.82	52.65
		Average of Peak Amounts =			0.46362		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D
Date : 08-FEB-2010 16:51
Client ID:
Sample Info: 1232,,1,4
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

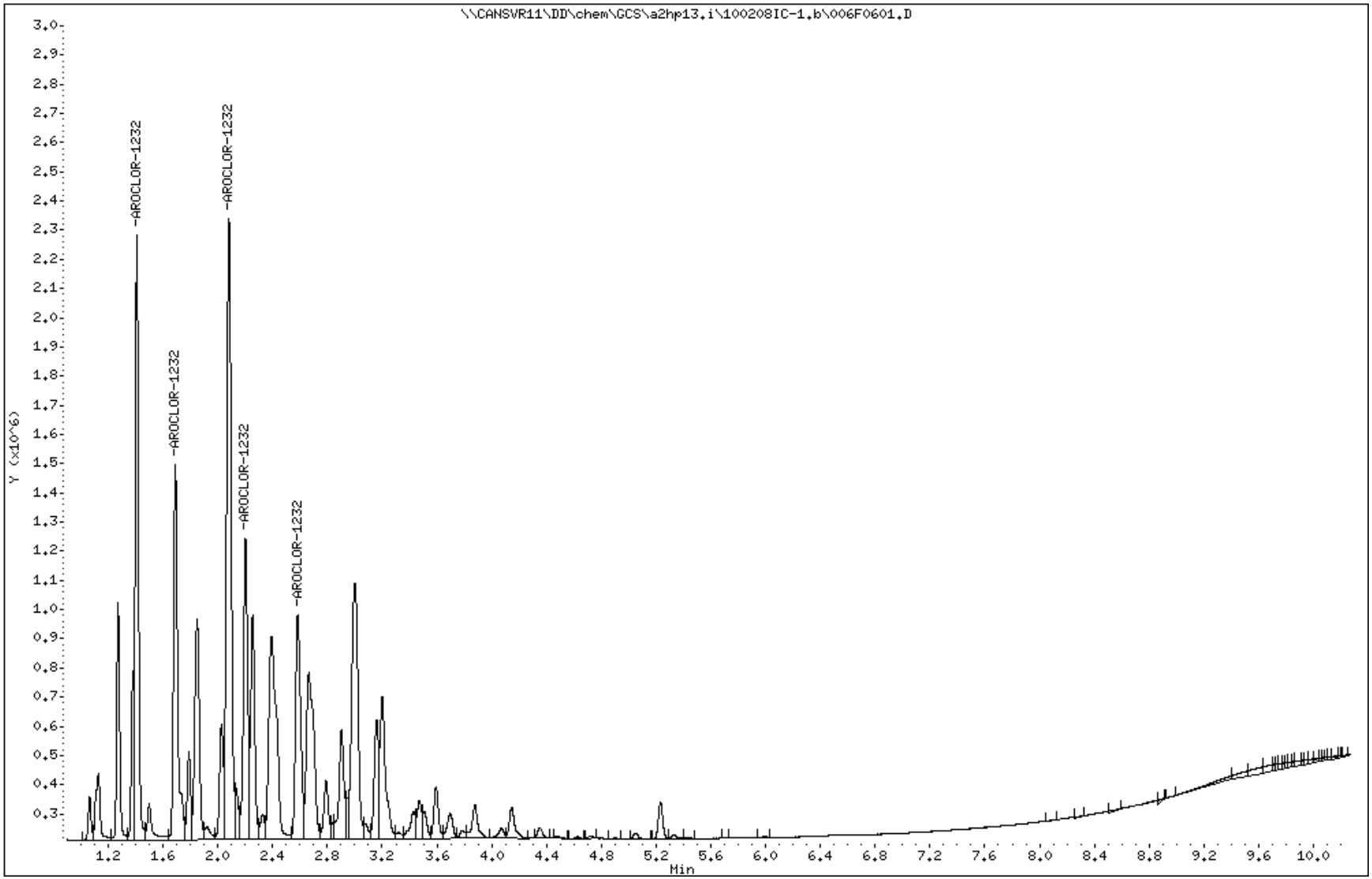
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 17:06
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,5
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	3487449	1.00000	0.9165	75.00- 125.00	100.00
1.689	1.691	-0.002	2717869	1.00000	0.9411	56.26- 93.77	77.93
2.081	2.083	-0.002	5054049	1.00000	0.9017	108.88- 181.47	144.92
2.201	2.203	-0.002	2210230	1.00000	1.010	43.74- 72.91	63.38
2.582	2.584	-0.002	2012566	1.00000	0.9238	39.49- 65.82	57.71
		Average of Peak Amounts =			0.93862		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D
Date : 08-FEB-2010 17:06
Client ID:
Sample Info: 1232,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 17:22
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,6
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

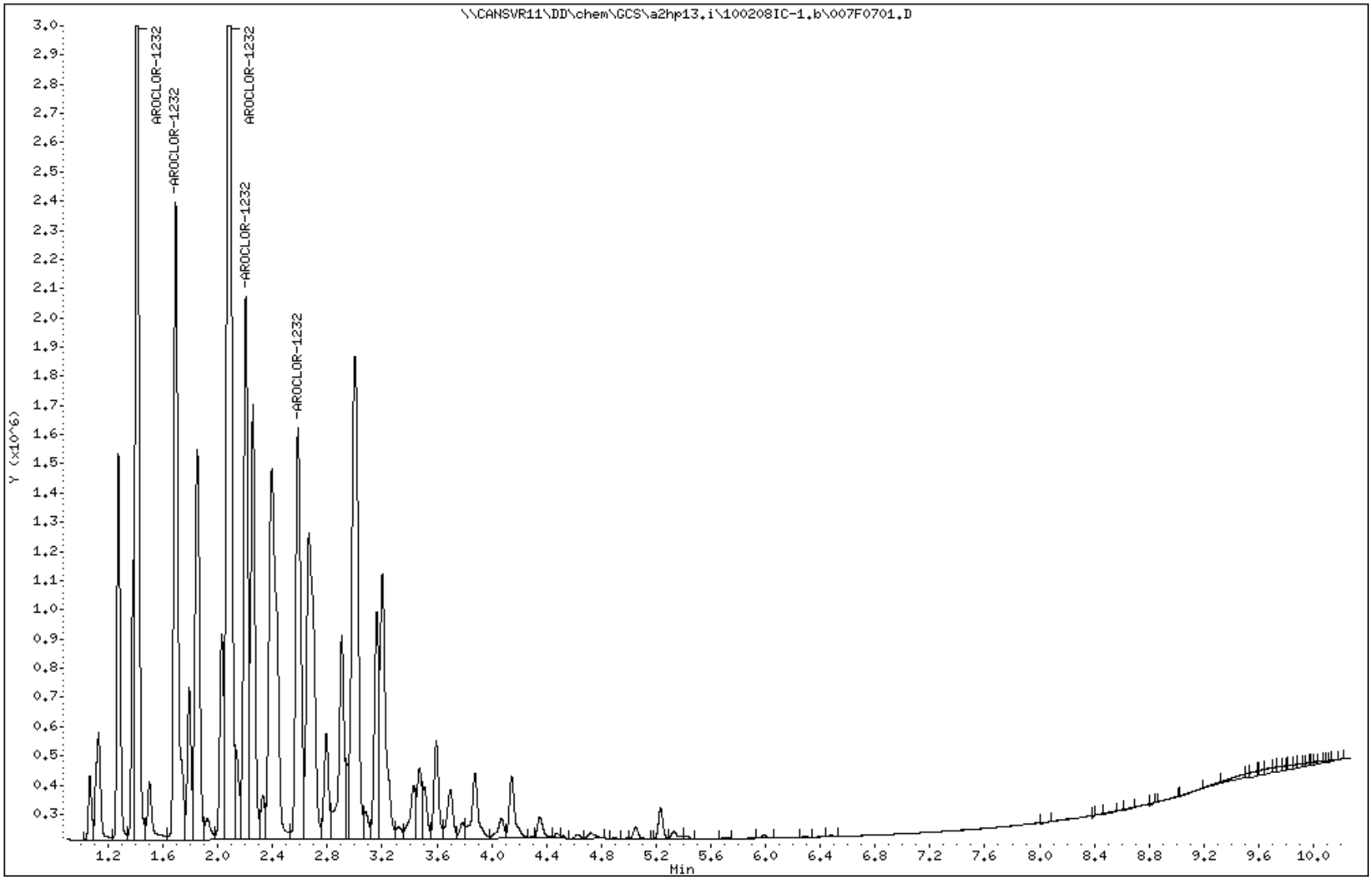
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.410	1.410	0.000	6224110	2.00000	1.675	75.00- 125.00	100.00(M)
1.691	1.691	0.000	4818200	2.00000	1.668	56.26- 93.77	77.41
2.083	2.083	0.000	9407952	2.00000	1.678	108.88- 181.47	151.15
2.203	2.203	0.000	4021965	2.00000	1.838	43.74- 72.91	64.62
2.584	2.584	0.000	3695905	2.00000	1.696	39.49- 65.82	59.38
		Average of Peak Amounts =			1.71100		

QC Flag Legend

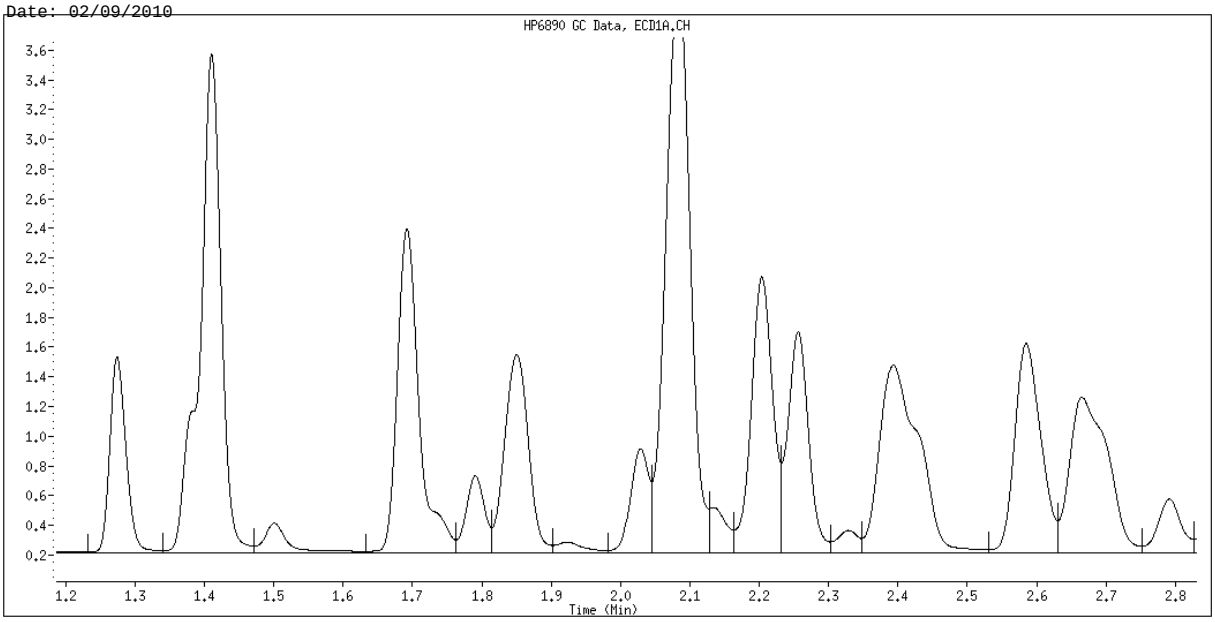
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D
Date : 08-FEB-2010 17:22
Client ID:
Sample Info: 1232,,1,6

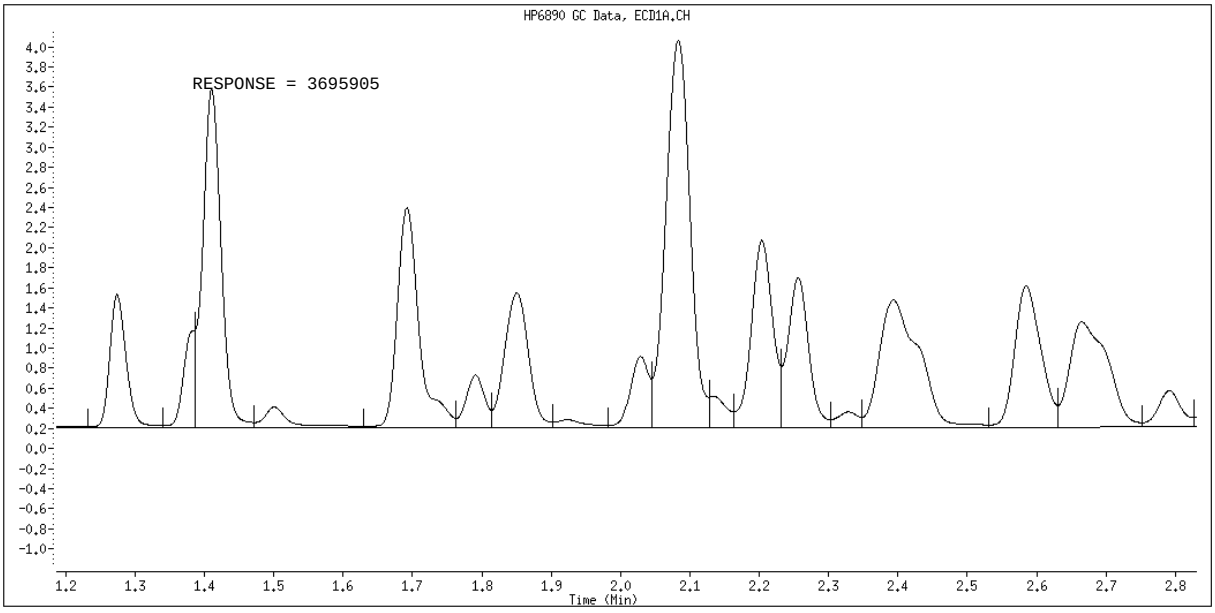
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 007F0701.D
Inj. Date and Time: 08-FEB-2010 17:22
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1232
CAS #: 11141-16-5
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

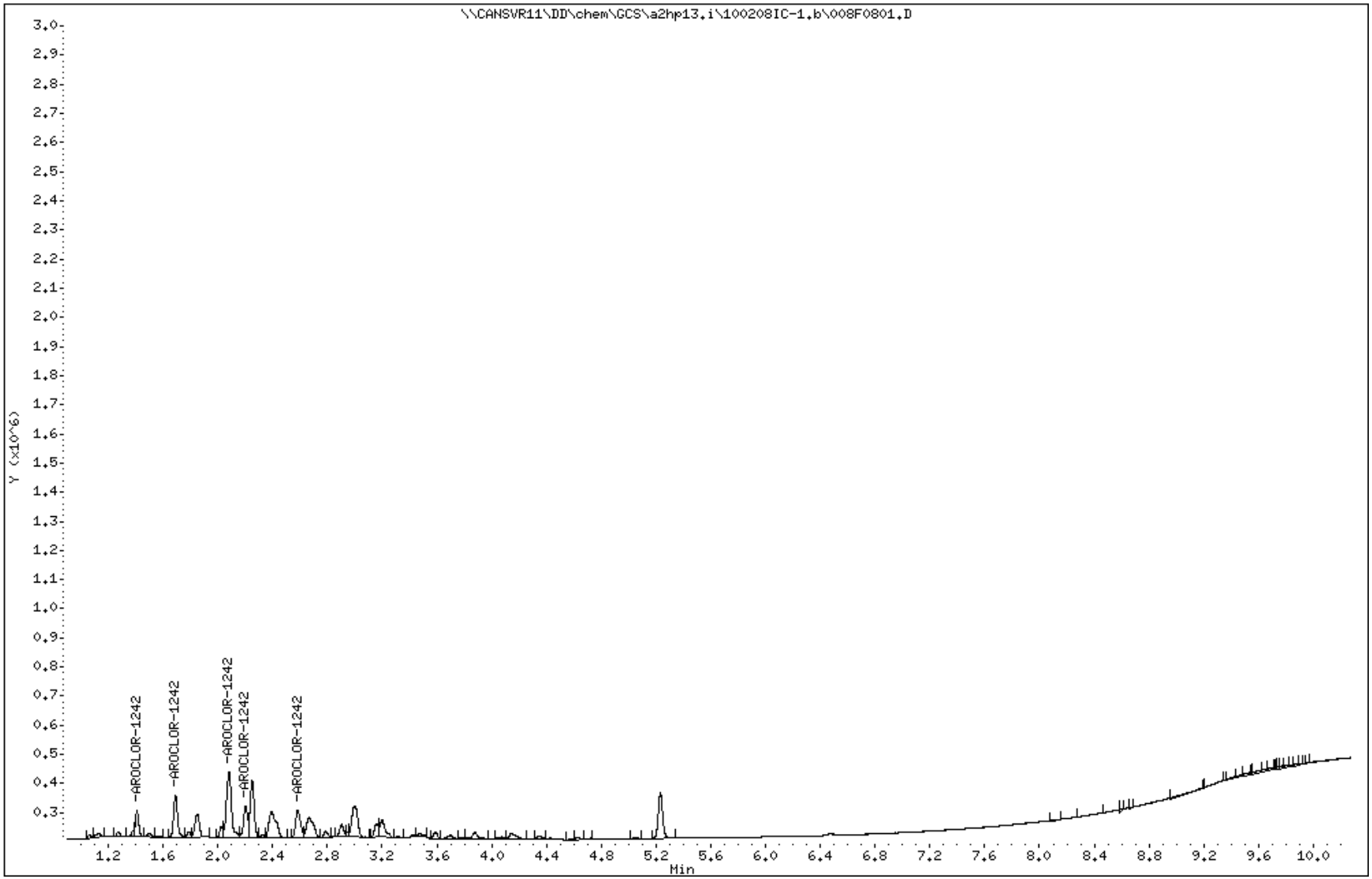
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 17:37
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,1
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	152973	0.05000	0.05535	75.00- 125.00	100.00
1.690	1.691	-0.001	281174	0.05000	0.05714	138.13- 230.21	183.81
2.081	2.082	-0.001	572992	0.05000	0.05820	278.38- 463.97	374.57
2.201	2.202	-0.001	223097	0.05000	0.05406	121.18- 201.97	145.84
2.583	2.584	-0.001	231051	0.05000	0.05564	121.92- 203.20	151.04
		Average of Peak Amounts =			0.05608		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
Date : 08-FEB-2010 17:37
Client ID:
Sample Info: 1242,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



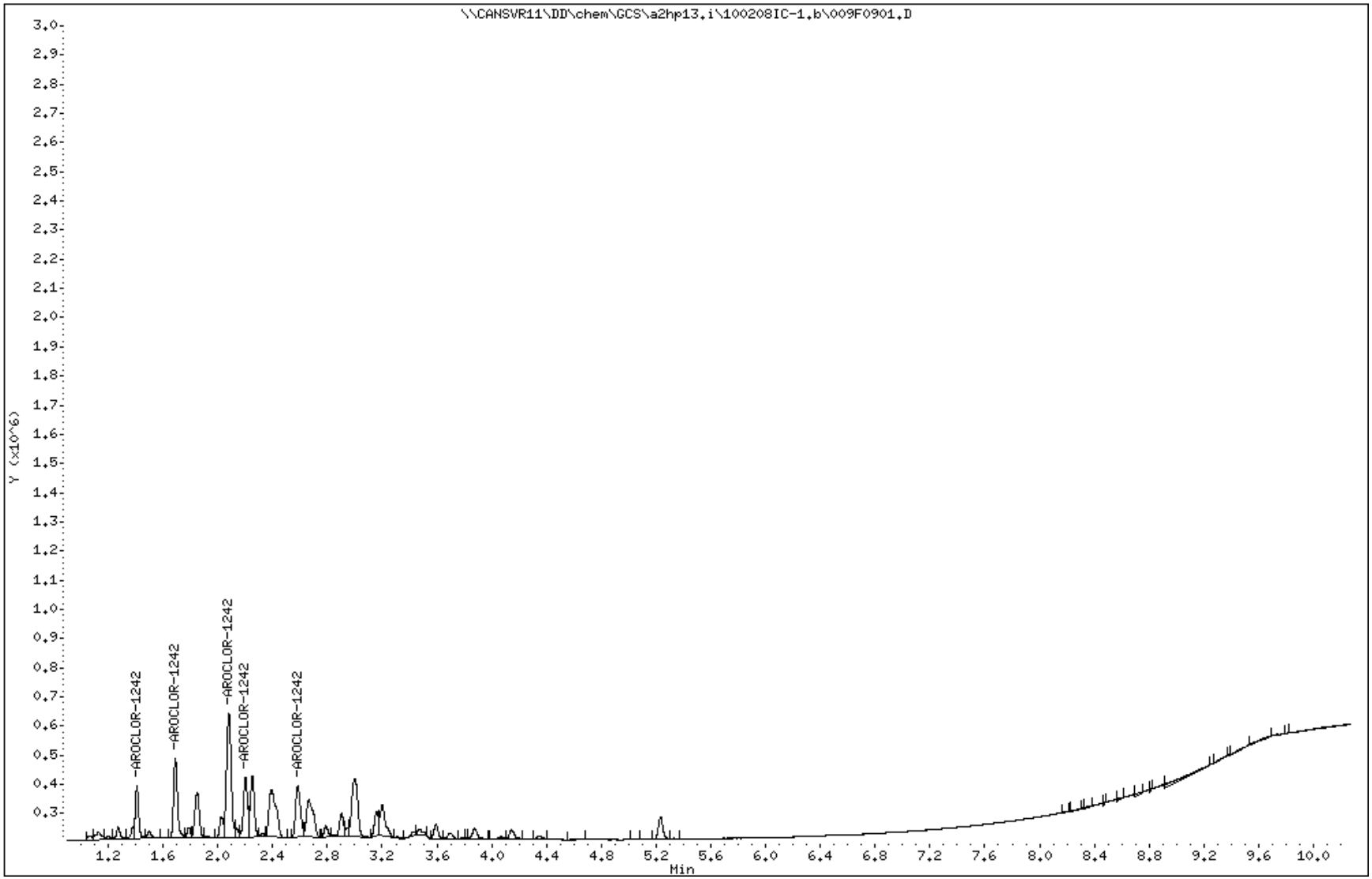
TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 17:51
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,2
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	305822	0.10000	0.1106	75.00- 125.00	100.00
1.689	1.691	-0.002	539941	0.10000	0.1097	138.13- 230.21	176.55
2.080	2.082	-0.002	1012750	0.10000	0.1029	278.38- 463.97	331.16
2.201	2.202	-0.001	431219	0.10000	0.1045	121.18- 201.97	141.00
2.583	2.584	-0.001	438498	0.10000	0.1056	121.92- 203.20	143.38
		Average of Peak Amounts =			0.10666		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
Date : 08-FEB-2010 17:51
Client ID:
Instrument: a2hp13.i
Sample Info: 1242,,1,2
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

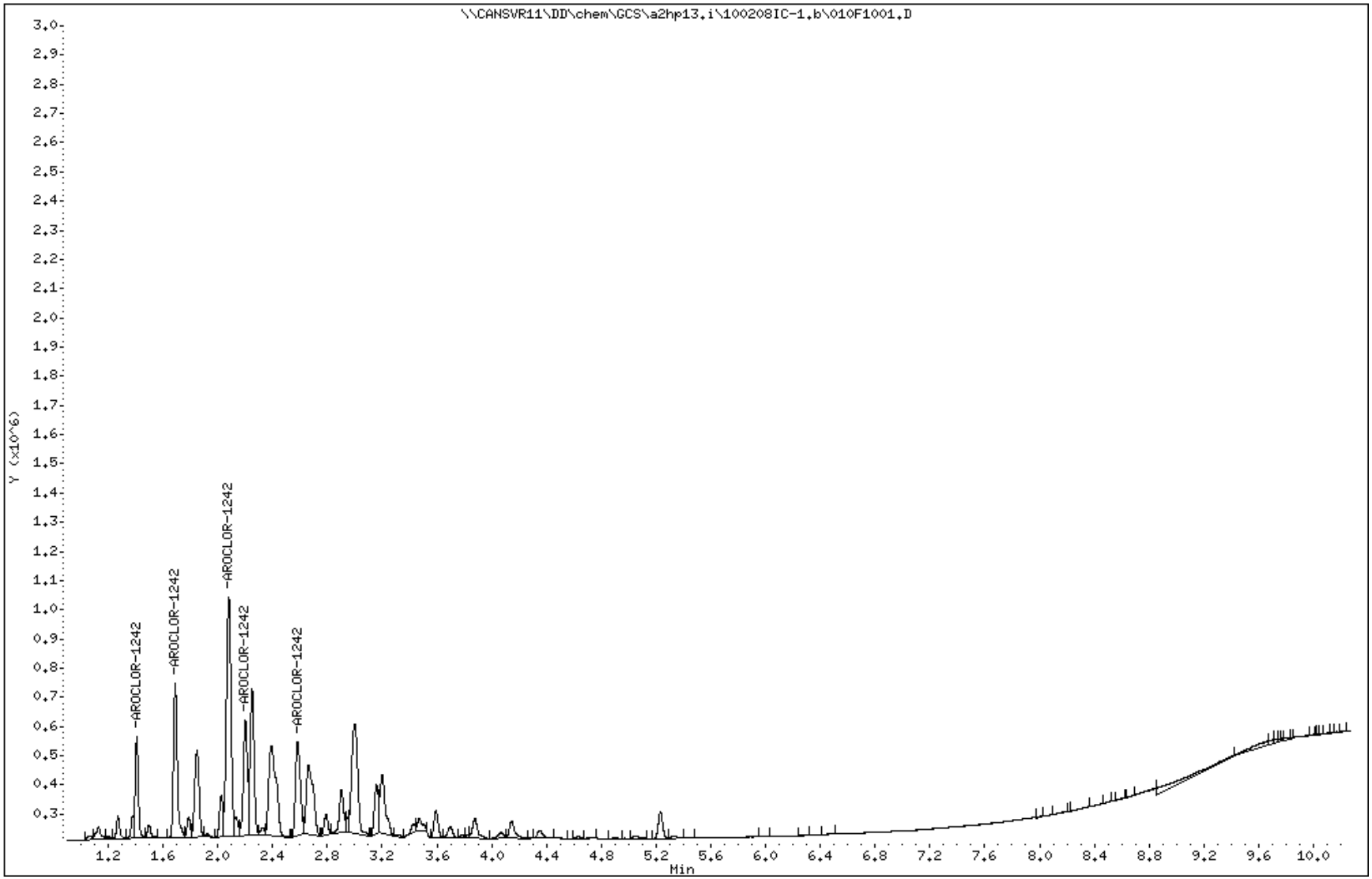
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:06
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,3
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	562612	0.20000	0.2036	75.00- 125.00	100.00
1.689	1.691	-0.002	1025821	0.20000	0.2085	138.13- 230.21	182.33
2.079	2.082	-0.003	1942009	0.20000	0.1972	278.38- 463.97	345.18
2.201	2.202	-0.001	819921	0.20000	0.1987	121.18- 201.97	145.73
2.582	2.584	-0.002	800715	0.20000	0.1928	121.92- 203.20	142.32
		Average of Peak Amounts =			0.20016		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
Date : 08-FEB-2010 18:06
Client ID:
Sample Info: 1242,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

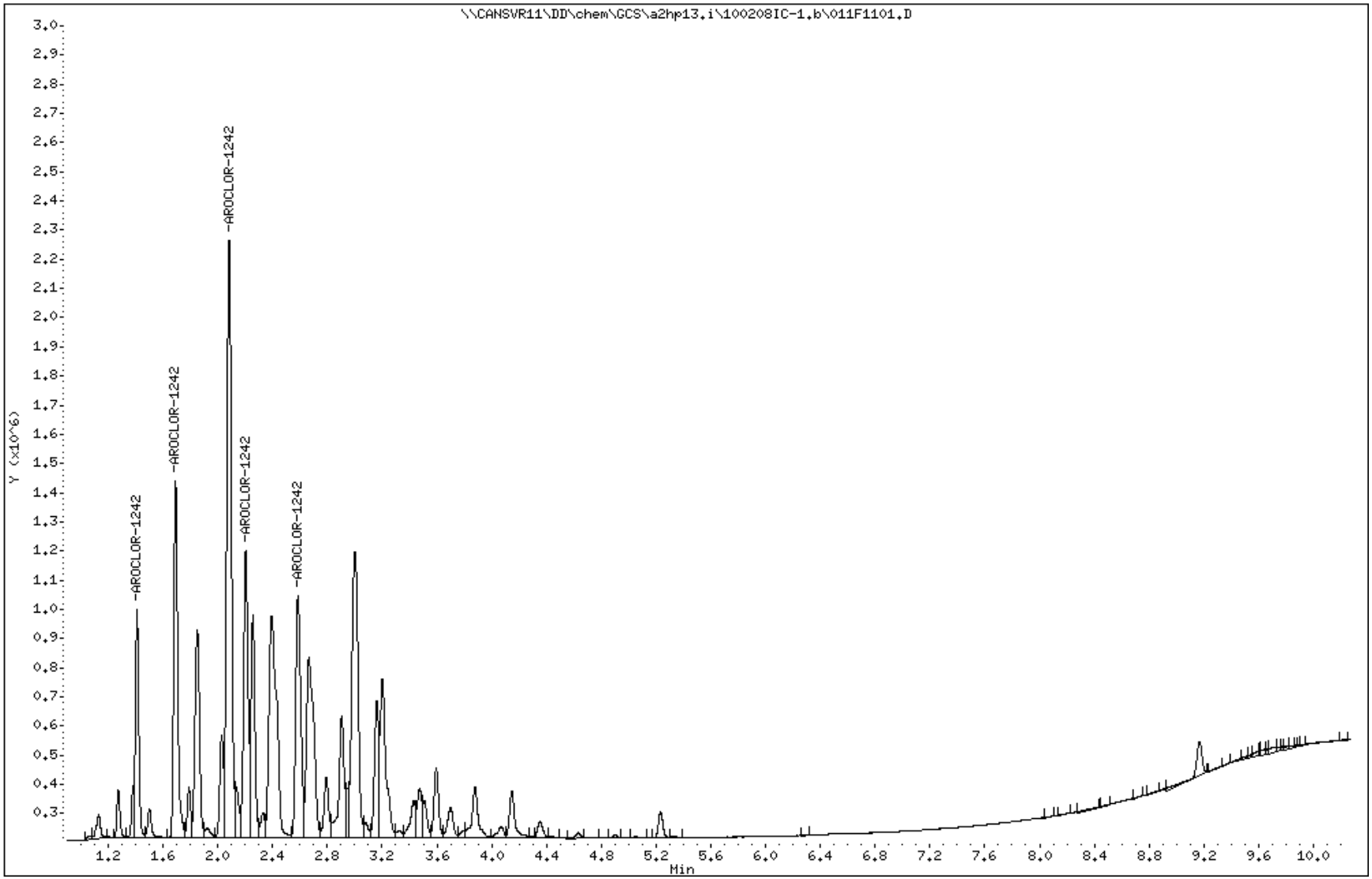
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:22
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,4
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.409	1.410	-0.001	1331718	0.50000	0.4919	75.00- 125.00	100.00
1.691	1.691	0.000	2452648	0.50000	0.4984	138.13- 230.21	184.17
2.083	2.082	0.001	4942983	0.50000	0.5021	278.38- 463.97	371.17
2.204	2.202	0.002	2151688	0.50000	0.5214	121.18- 201.97	161.57
2.584	2.584	0.000	2164834	0.50000	0.5213	121.92- 203.20	162.56
		Average of Peak Amounts =			0.50702		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
Date : 08-FEB-2010 18:22
Client ID:
Sample Info: 1242,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

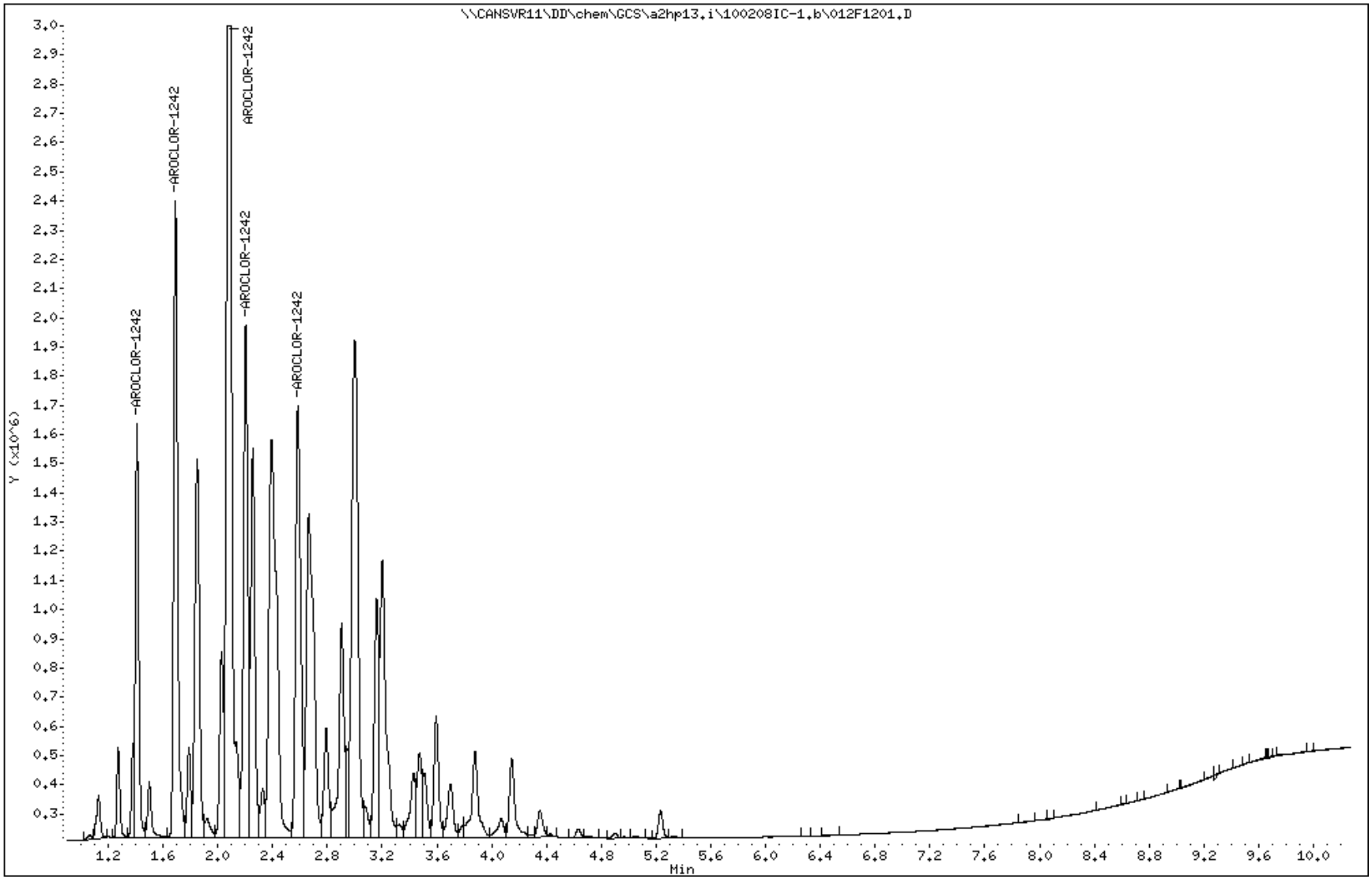
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:37
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,5
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.409	1.410	-0.001	2414223	1.00000	0.8917	75.00- 125.00	100.00
1.690	1.691	-0.001	4430570	1.00000	0.9004	138.13- 230.21	183.52
2.082	2.082	0.000	9438043	1.00000	0.9587	278.38- 463.97	390.94
2.202	2.202	0.000	3887106	1.00000	0.9419	121.18- 201.97	161.01
2.583	2.584	-0.001	3860688	1.00000	0.9297	121.92- 203.20	159.91
Average of Peak Amounts =					0.92448		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
Date : 08-FEB-2010 18:37
Client ID:
Sample Info: 1242,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

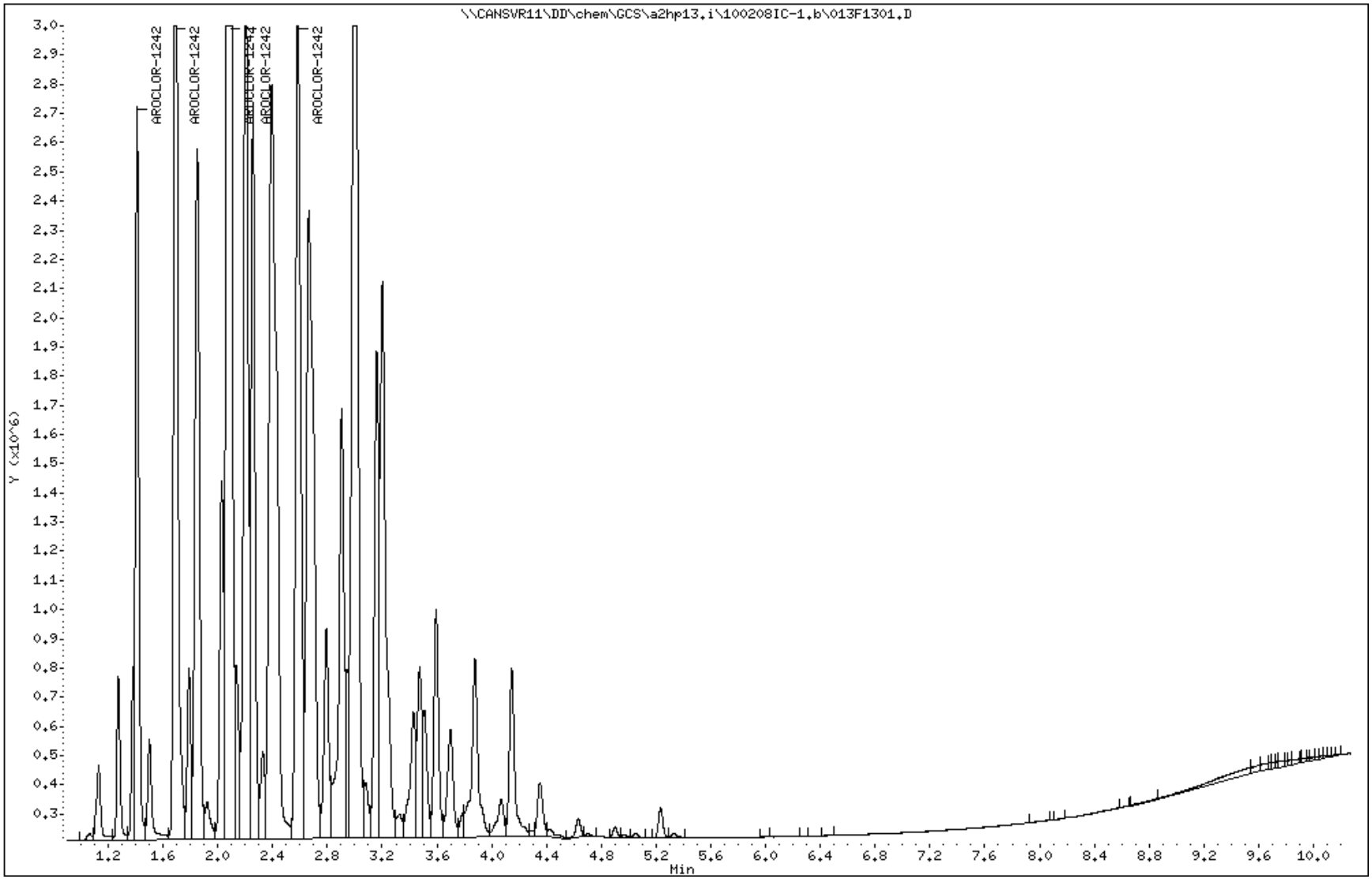
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:51
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,6
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.410	1.410	0.000	4472965	2.00000	1.652	75.00- 125.00	100.00(M)
1.691	1.691	0.000	8070198	2.00000	1.640	138.13- 230.21	180.42
2.082	2.082	0.000	16897043	2.00000	1.716	278.38- 463.97	377.76
2.202	2.202	0.000	7391668	2.00000	1.791	121.18- 201.97	165.25
2.584	2.584	0.000	7432456	2.00000	1.790	121.92- 203.20	166.16
		Average of Peak Amounts =			1.71780		

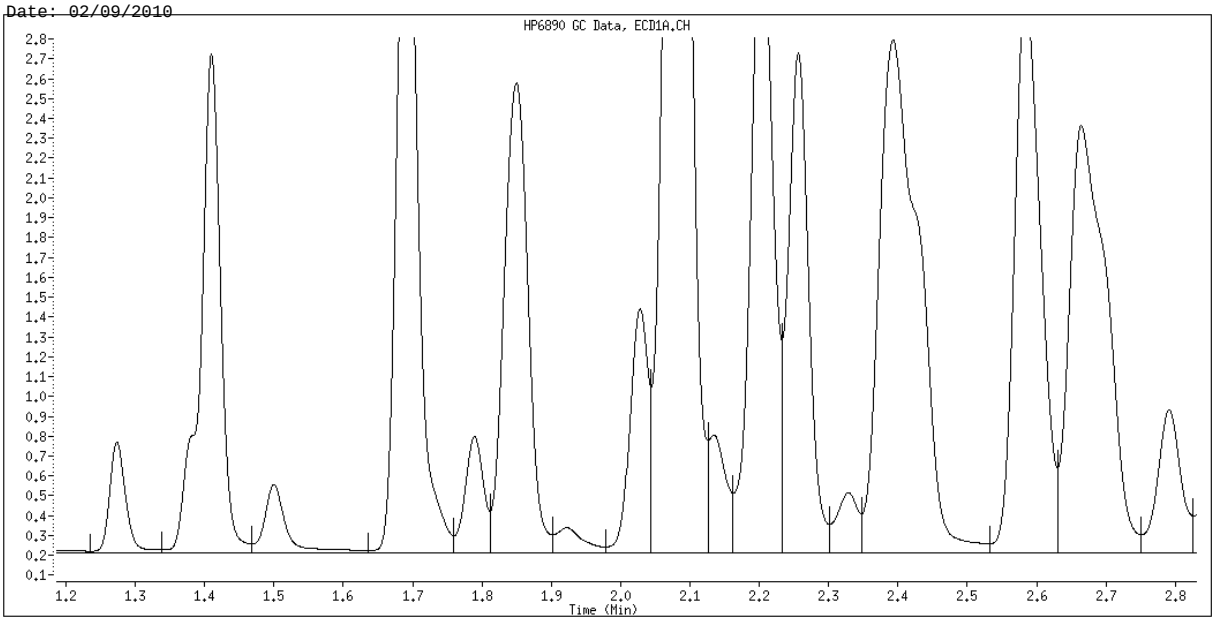
QC Flag Legend

M - Compound response manually integrated.

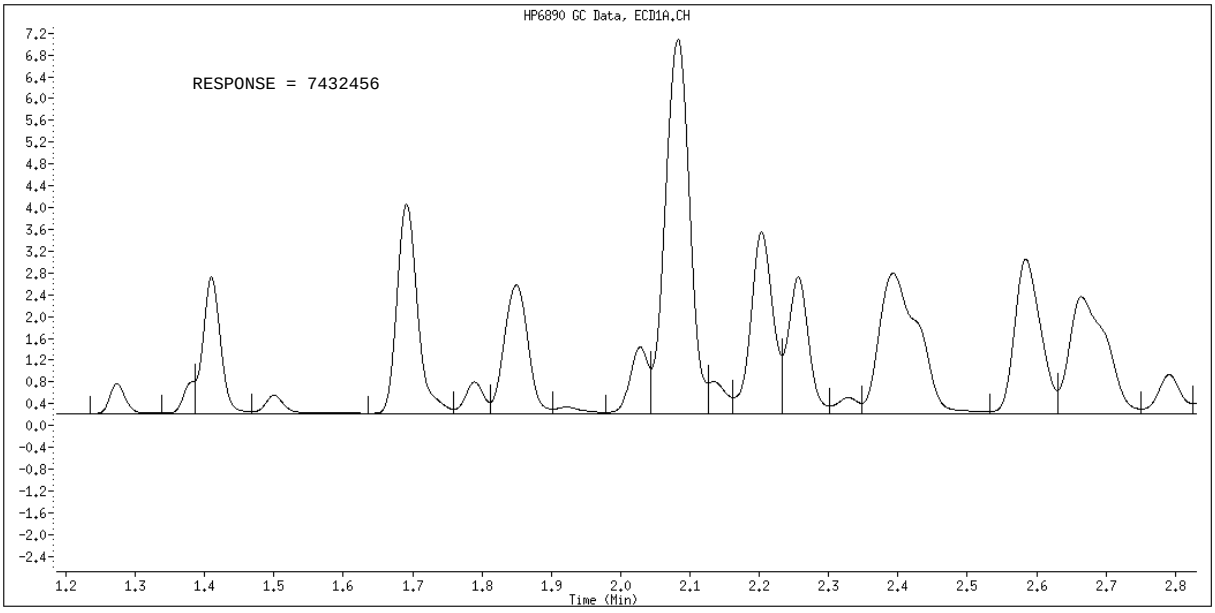
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
Date : 08-FEB-2010 18:51
Client ID:
Instrument: a2hp13.i
Sample Info: 1242,,1,6
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 013F1301.D
Inj. Date and Time: 08-FEB-2010 18:51
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1242
CAS #: 53469-21-9
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

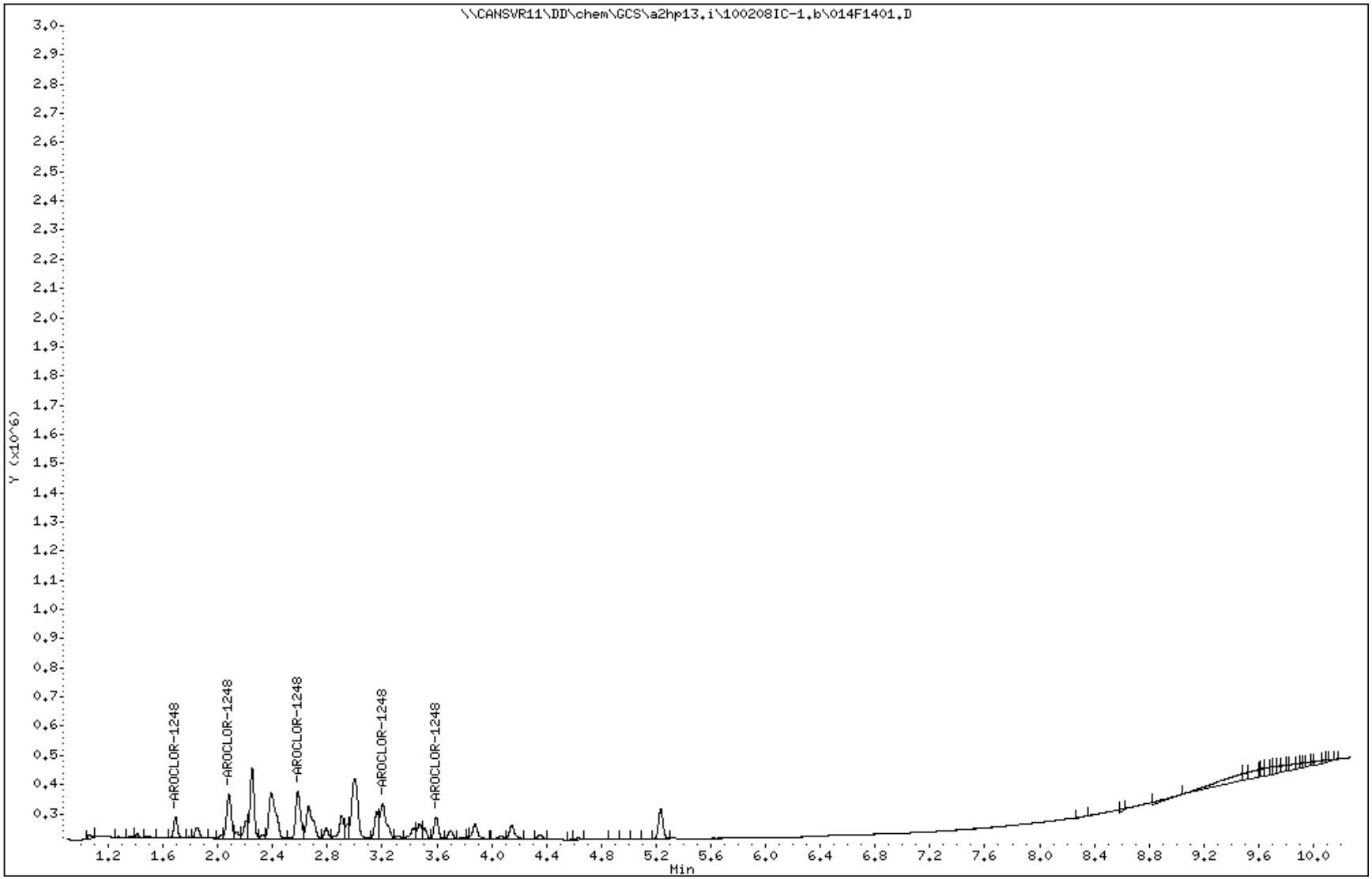
TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:06
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,1
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 14 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.690	1.689	0.001	72700	0.05000	0.05611	75.00- 125.00	100.00
2.080	2.081	-0.001	150545	0.05000	0.05569	156.55- 260.91	207.08
2.582	2.583	-0.001	160102	0.05000	0.05714	162.02- 270.04	220.22
3.202	3.202	0.000	120160	0.05000	0.05566	123.26- 205.43	165.28
3.593	3.595	-0.002	74108	0.05000	0.05373	77.67- 129.46	101.94
		Average of Peak Amounts =			0.05567		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
Date : 08-FEB-2010 19:06
Client ID:
Instrument: a2hp13.i
Sample Info: 1248,,1,1
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

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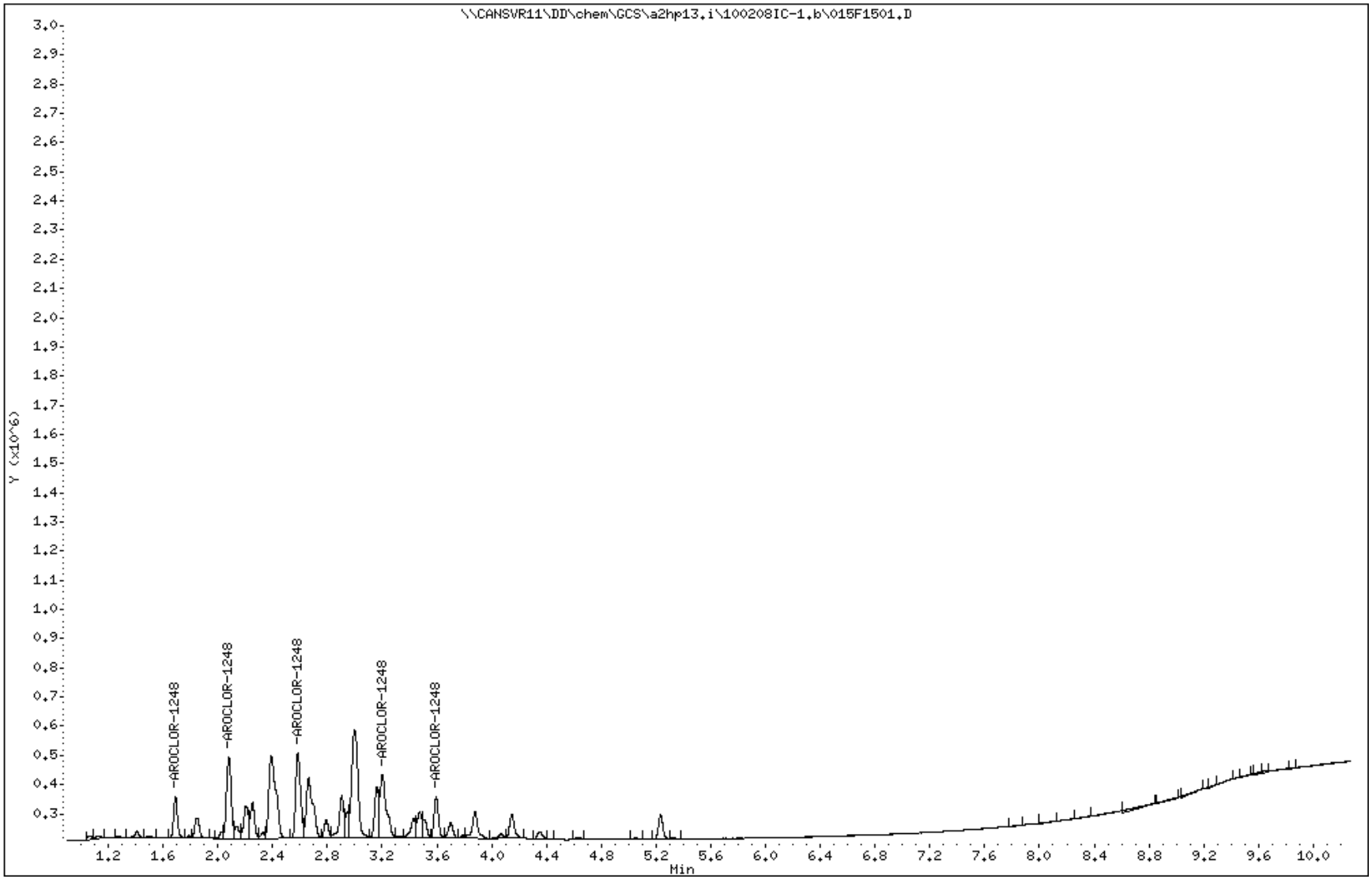
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:21
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,2
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	142026	0.10000	0.1096	75.00- 125.00	100.00
2.081	2.081	0.000	279006	0.10000	0.1032	156.55- 260.91	196.45
2.583	2.583	0.000	293382	0.10000	0.1047	162.02- 270.04	206.57
3.203	3.202	0.001	219773	0.10000	0.1018	123.26- 205.43	154.74
3.594	3.595	-0.001	142460	0.10000	0.1033	77.67- 129.46	100.31
		Average of Peak Amounts =			0.10452		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
Date : 08-FEB-2010 19:21
Client ID:
Sample Info: 1248,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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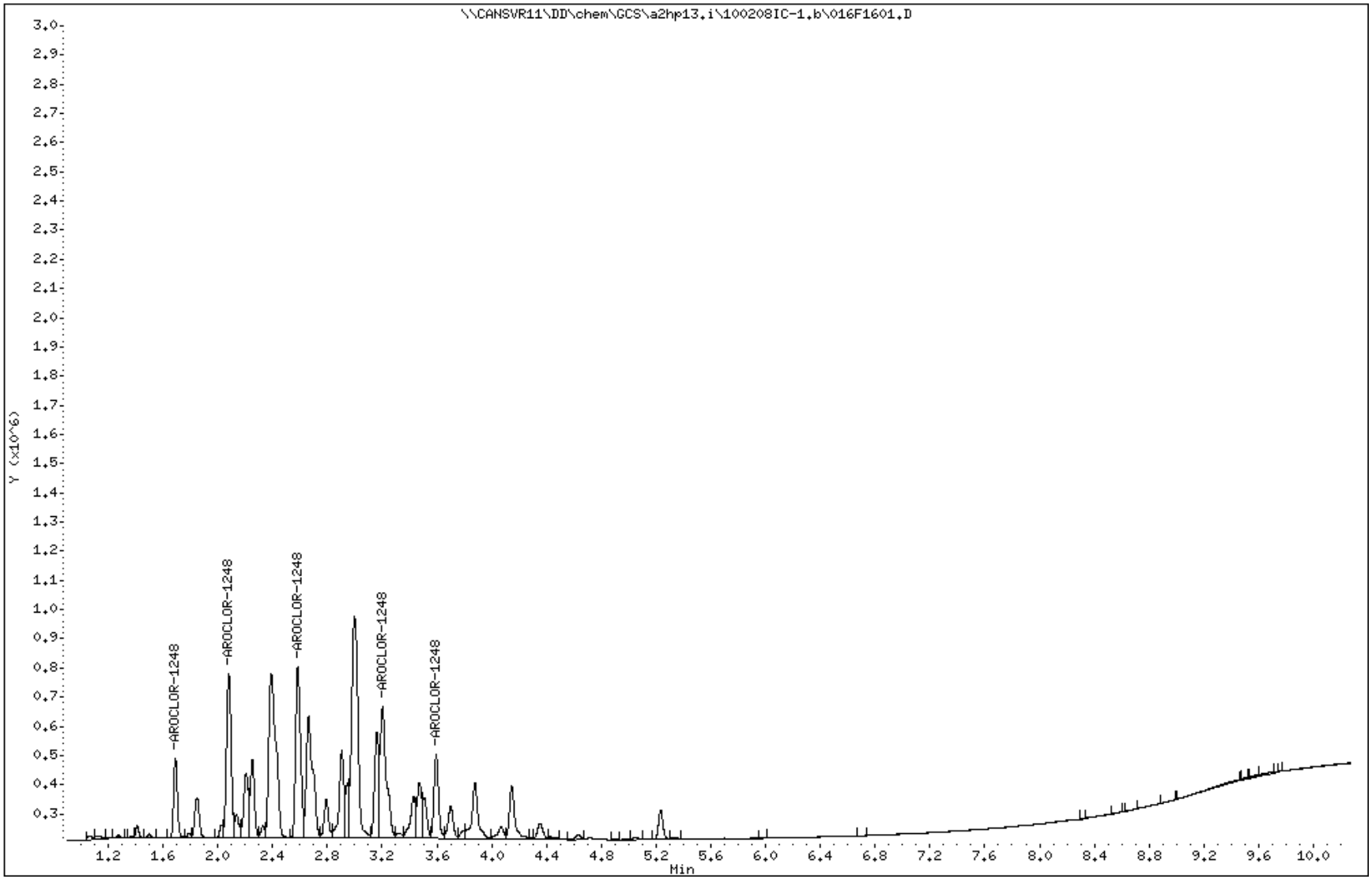
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:36
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,3
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 16 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	274012	0.20000	0.2115	75.00- 125.00	100.00
2.080	2.081	-0.001	564126	0.20000	0.2087	156.55- 260.91	205.88
2.583	2.583	0.000	585739	0.20000	0.2090	162.02- 270.04	213.76
3.203	3.202	0.001	449850	0.20000	0.2084	123.26- 205.43	164.17
3.593	3.595	-0.002	290159	0.20000	0.2104	77.67- 129.46	105.89
		Average of Peak Amounts =			0.20960		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D
Date : 08-FEB-2010 19:36
Client ID:
Sample Info: 1248,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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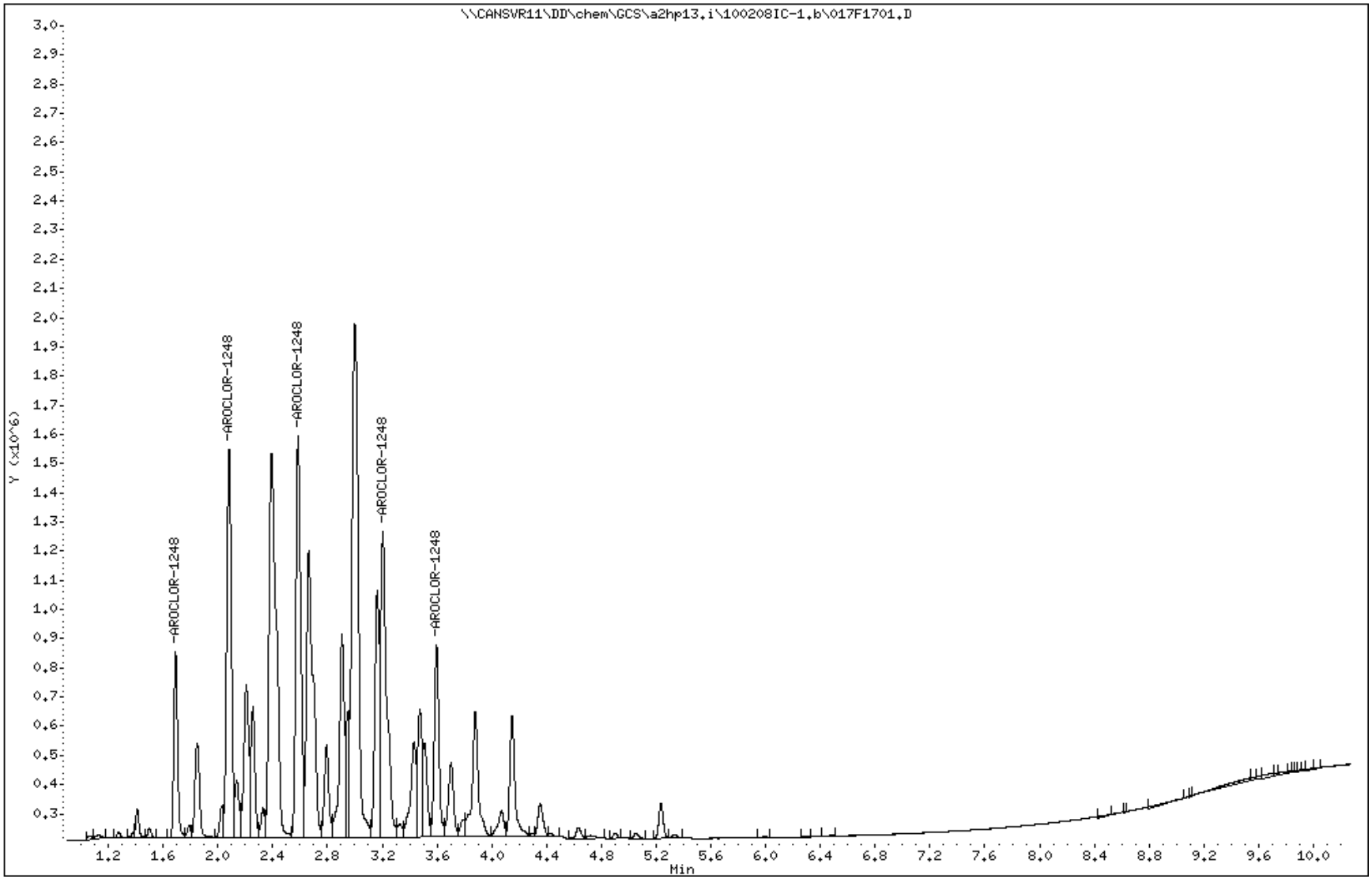
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:51
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,4
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 17 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.690	1.689	0.001	637110	0.50000	0.4917	75.00- 125.00	100.00
2.081	2.081	0.000	1329828	0.50000	0.4919	156.55- 260.91	208.73
2.585	2.583	0.002	1376369	0.50000	0.4912	162.02- 270.04	216.03
3.205	3.202	0.003	1047033	0.50000	0.4850	123.26- 205.43	164.34
3.595	3.595	0.000	659817	0.50000	0.4784	77.67- 129.46	103.56
		Average of Peak Amounts =			0.48764		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
Date : 08-FEB-2010 19:51
Client ID:
Sample Info: 1248,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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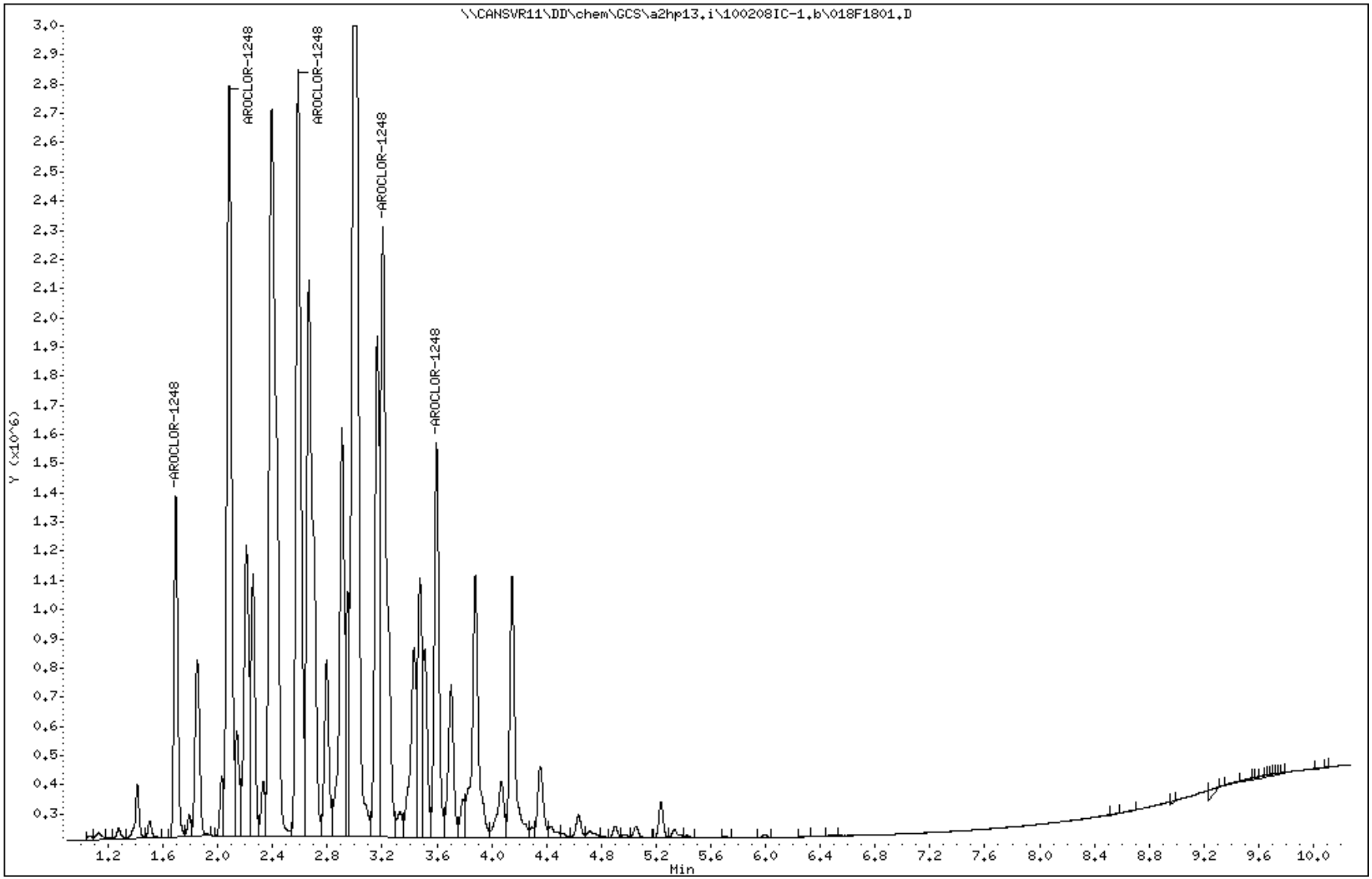
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 20:07
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,5
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.692	1.689	0.003	1169565	1.00000	0.9026	75.00- 125.00	100.00
2.081	2.081	0.000	2569180	1.00000	0.9504	156.55- 260.91	219.67
2.585	2.583	0.002	2628508	1.00000	0.9380	162.02- 270.04	224.74
3.204	3.202	0.002	2089068	1.00000	0.9678	123.26- 205.43	178.62
3.595	3.595	0.000	1353246	1.00000	0.9811	77.67- 129.46	115.71
		Average of Peak Amounts =			0.94798		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
Date : 08-FEB-2010 20:07
Client ID:
Sample Info: 1248,,1,5

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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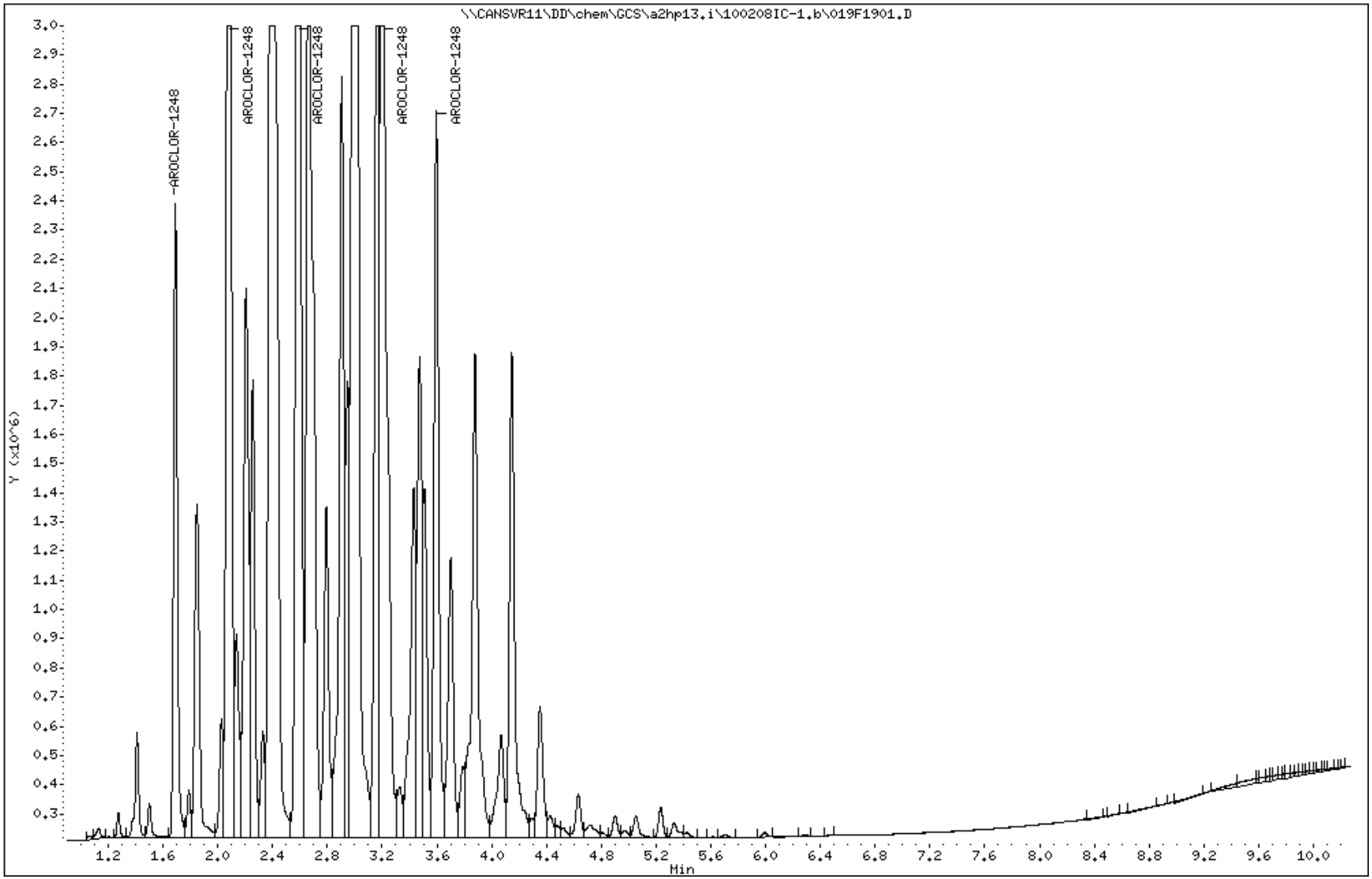
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 20:22
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,6
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 19 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	2172800	2.00000	1.677	75.00- 125.00	100.00
2.081	2.081	0.000	4738942	2.00000	1.753	156.55- 260.91	218.10
2.583	2.583	0.000	4733633	2.00000	1.689	162.02- 270.04	217.86
3.202	3.202	0.000	3836733	2.00000	1.777	123.26- 205.43	176.58
3.595	3.595	0.000	2491009	2.00000	1.806	77.67- 129.46	114.65
		Average of Peak Amounts =			1.74040		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
Date : 08-FEB-2010 20:22
Client ID:
Sample Info: 1248,,1,6

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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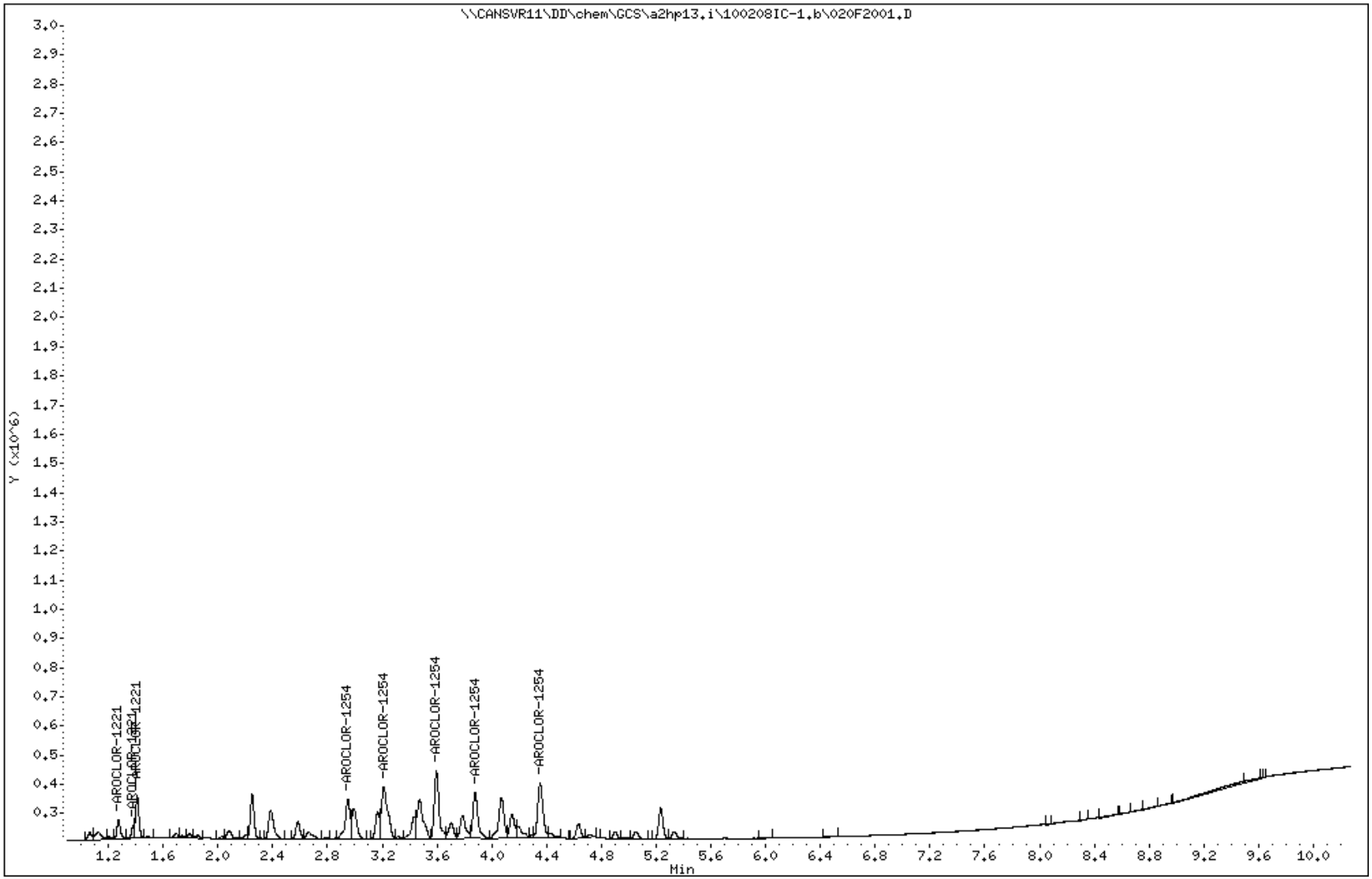
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 20:36
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,1
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 20 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.948	2.951	-0.003	135822	0.05000	0.05856	75.00- 125.00	100.00
3.211	3.213	-0.002	178586	0.05000	0.05870	98.18- 163.63	131.49
3.595	3.597	-0.002	231015	0.05000	0.05659	132.08- 220.13	170.09
3.880	3.881	-0.001	156155	0.05000	0.05541	89.69- 149.48	114.97
4.352	4.354	-0.002	186311	0.05000	0.05506	107.68- 179.46	137.17
		Average of Peak Amounts =			0.05686		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	65347	0.05000	0.05316	75.00- 125.00	100.00
1.380	1.391	-0.011	42412	0.05000	0.05299	49.63- 82.71	64.90
1.410	1.412	-0.002	145084	0.05000	0.05276	164.10- 273.51	222.02
		Average of Peak Amounts =			0.05297		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
Date : 08-FEB-2010 20:36
Client ID:
Sample Info: 1254,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



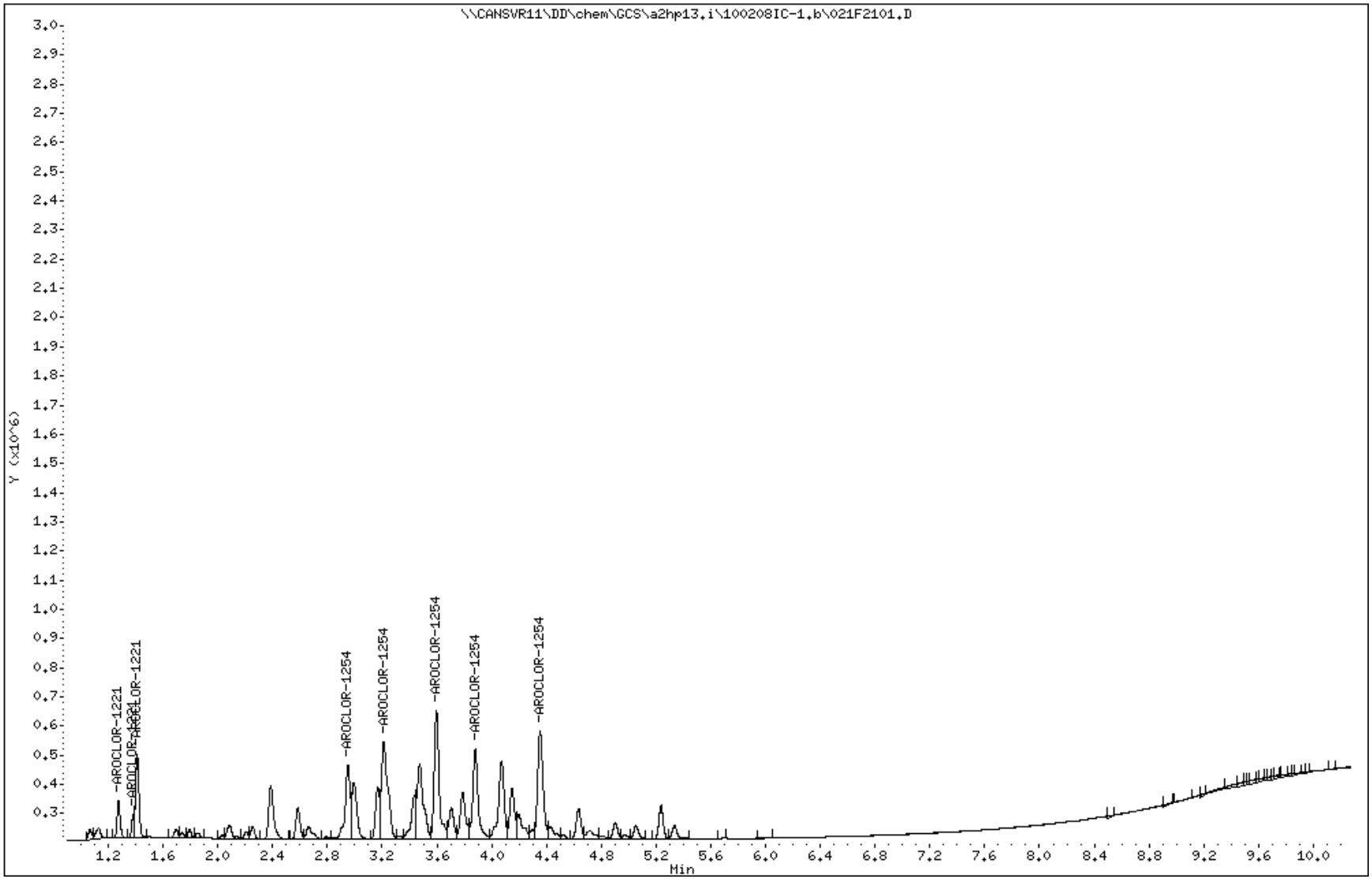
TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 20:52
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,2
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 21 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	252847	0.10000	0.1090	75.00- 125.00	100.00
3.211	3.213	-0.002	332623	0.10000	0.1093	98.18- 163.63	131.55
3.596	3.597	-0.001	437608	0.10000	0.1072	132.08- 220.13	173.07
3.880	3.881	-0.001	306740	0.10000	0.1088	89.69- 149.48	121.31
4.353	4.354	-0.001	367484	0.10000	0.1086	107.68- 179.46	145.34
		Average of Peak Amounts =			0.10858		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	126128	0.10000	0.1026	75.00- 125.00	100.00
1.382	1.391	-0.009	79401	0.10000	0.09921	49.63- 82.71	62.95
1.411	1.412	-0.001	286292	0.10000	0.1041	164.10- 273.51	226.99
		Average of Peak Amounts =			0.10197		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
Date : 08-FEB-2010 20:52
Client ID:
Instrument: a2hp13.i
Sample Info: 1254,,1,2
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

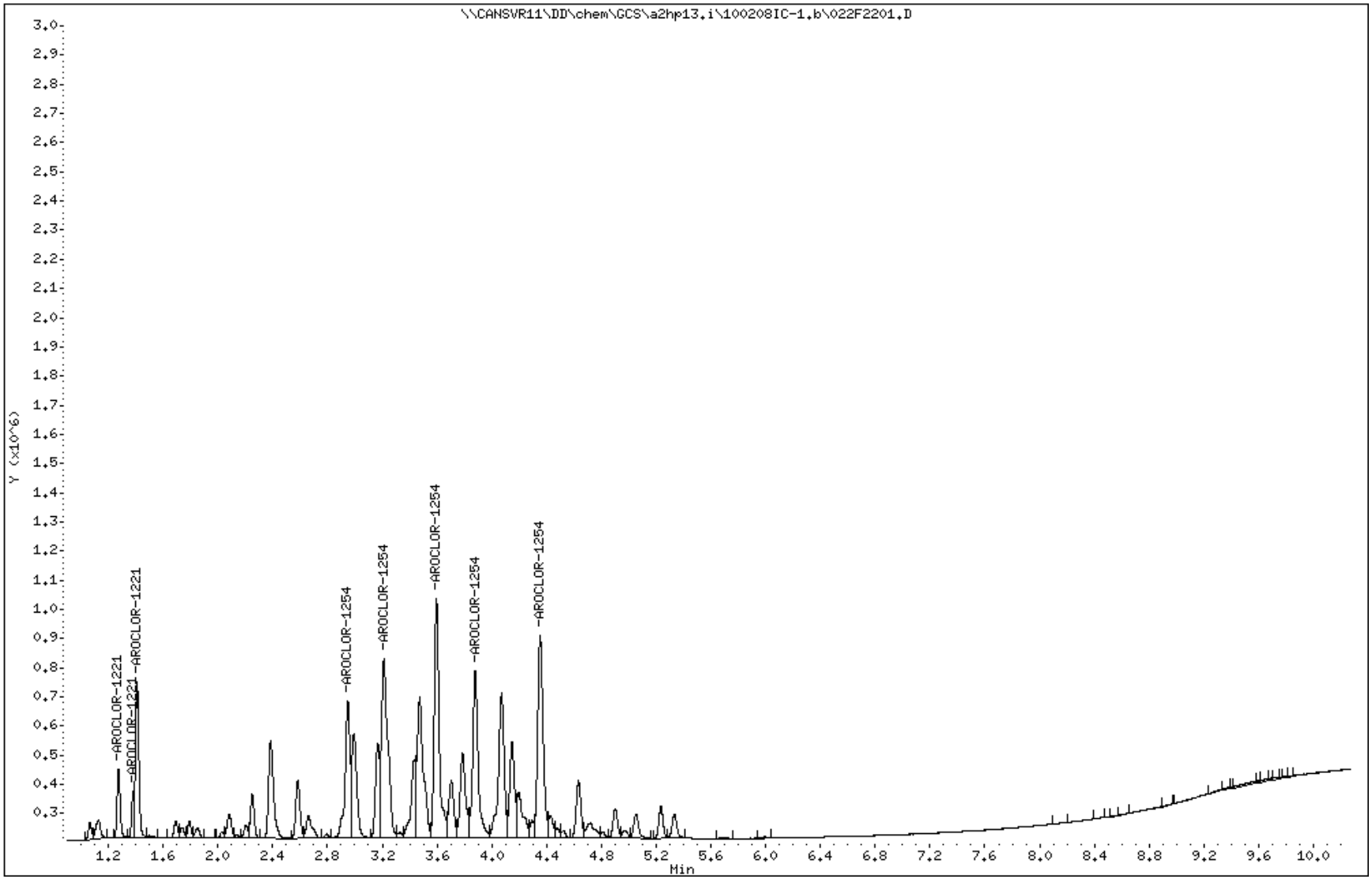
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:07
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,3
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 22 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	466592	0.20000	0.2012	75.00- 125.00	100.00
3.211	3.213	-0.002	612539	0.20000	0.2013	98.18- 163.63	131.28
3.595	3.597	-0.002	819107	0.20000	0.2007	132.08- 220.13	175.55
3.879	3.881	-0.002	570418	0.20000	0.2024	89.69- 149.48	122.25
4.353	4.354	-0.001	694495	0.20000	0.2052	107.68- 179.46	148.84
	Average of Peak Amounts =				0.20216		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	235833	0.20000	0.1918	75.00- 125.00	100.00
1.381	1.391	-0.010	156993	0.20000	0.1962	49.63- 82.71	66.57
1.410	1.412	-0.002	534783	0.20000	0.1945	164.10- 273.51	226.76
	Average of Peak Amounts =				0.19417		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
Date : 08-FEB-2010 21:07
Client ID:
Sample Info: 1254,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

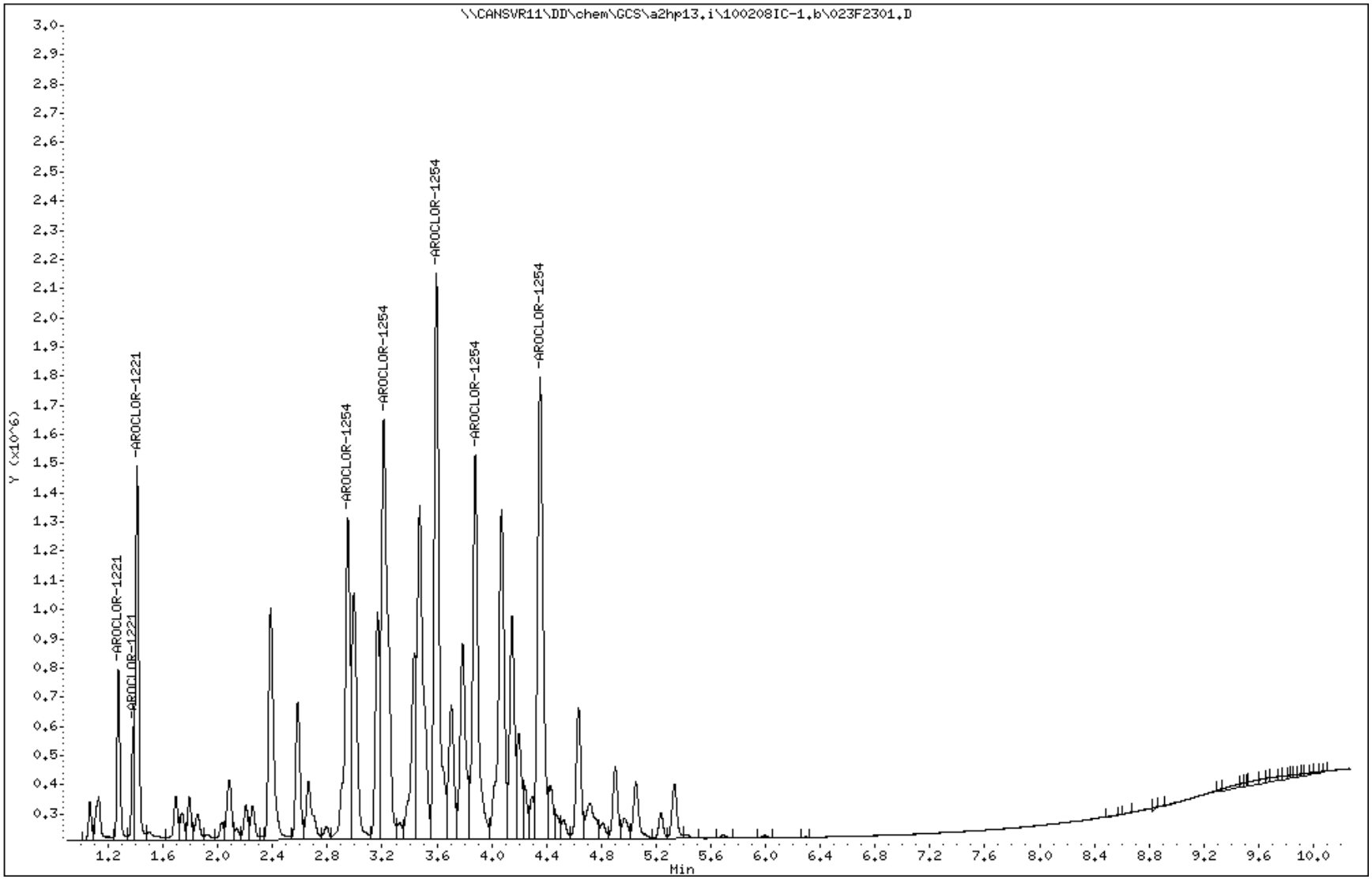
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:21
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,4
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 23 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	1100653	0.50000	0.4746	75.00- 125.00	100.00
3.211	3.213	-0.002	1440822	0.50000	0.4736	98.18- 163.63	130.91
3.596	3.597	-0.001	1938328	0.50000	0.4748	132.08- 220.13	176.11
3.880	3.881	-0.001	1316213	0.50000	0.4671	89.69- 149.48	119.58
4.353	4.354	-0.001	1580187	0.50000	0.4670	107.68- 179.46	143.57
		Average of Peak Amounts =			0.47142		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	584948	0.50000	0.4758	75.00- 125.00	100.00
1.381	1.391	-0.010	387055	0.50000	0.4836	49.63- 82.71	66.17
1.410	1.412	-0.002	1279897	0.50000	0.4655	164.10- 273.51	218.81
		Average of Peak Amounts =			0.47497		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
Date : 08-FEB-2010 21:21
Client ID:
Sample Info: 1254,,1,4

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:36
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,5
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 24 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

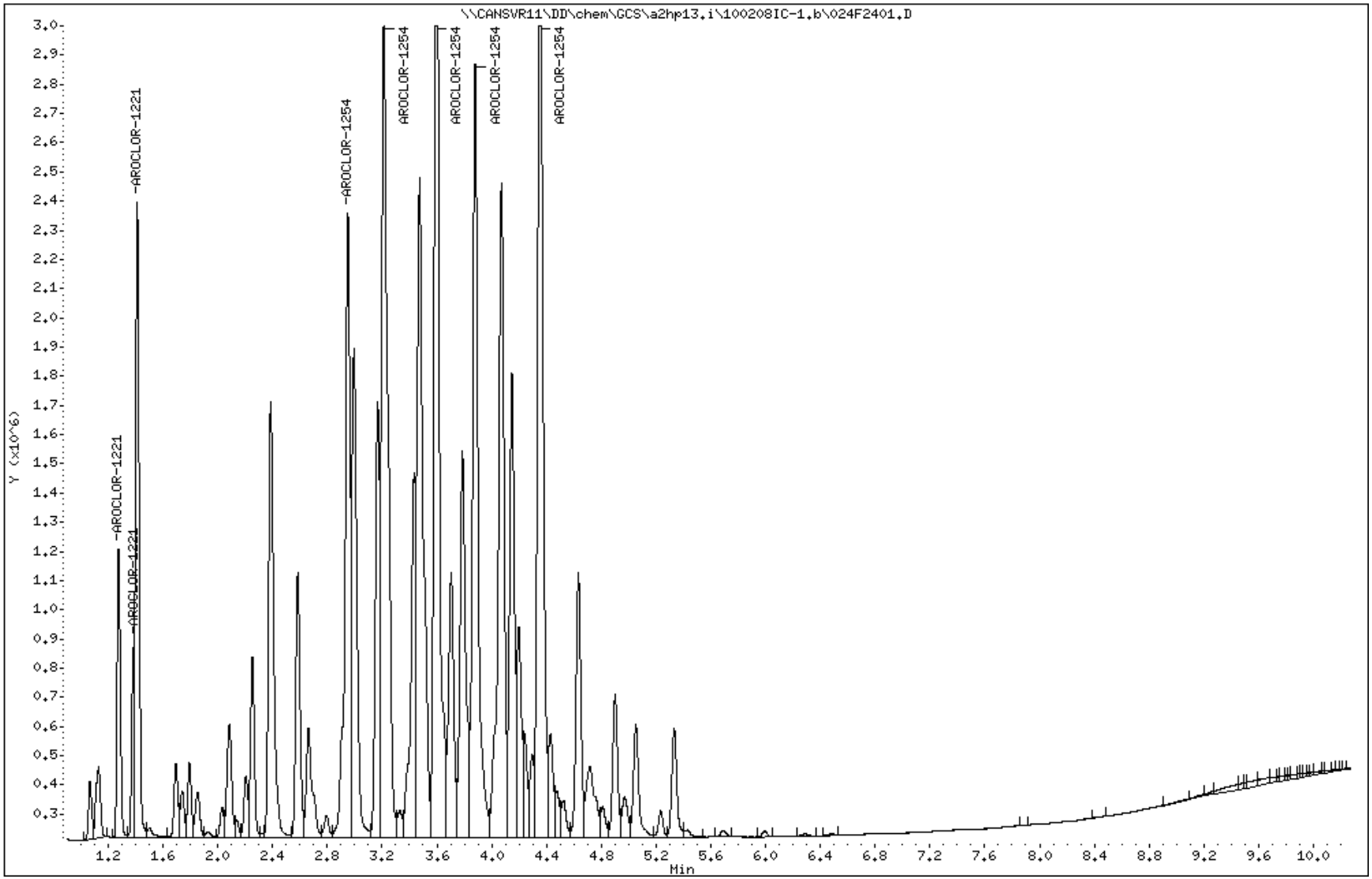
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	2139507	1.00000	0.9225	75.00- 125.00	100.00
3.212	3.213	-0.001	2809567	1.00000	0.9235	98.18- 163.63	131.32
3.596	3.597	-0.001	3849058	1.00000	0.9429	132.08- 220.13	179.90
3.879	3.881	-0.002	2649791	1.00000	0.9403	89.69- 149.48	123.85
4.353	4.354	-0.001	3181404	1.00000	0.9402	107.68- 179.46	148.70
		Average of Peak Amounts =			0.93388		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	989175	1.00000	0.8374	75.00- 125.00	100.00(M)
1.389	1.391	-0.002	668032	1.00000	0.8632	49.63- 82.71	67.53
1.411	1.412	-0.001	2174478	1.00000	0.8254	164.10- 273.51	219.83
		Average of Peak Amounts =			0.84200		

QC Flag Legend

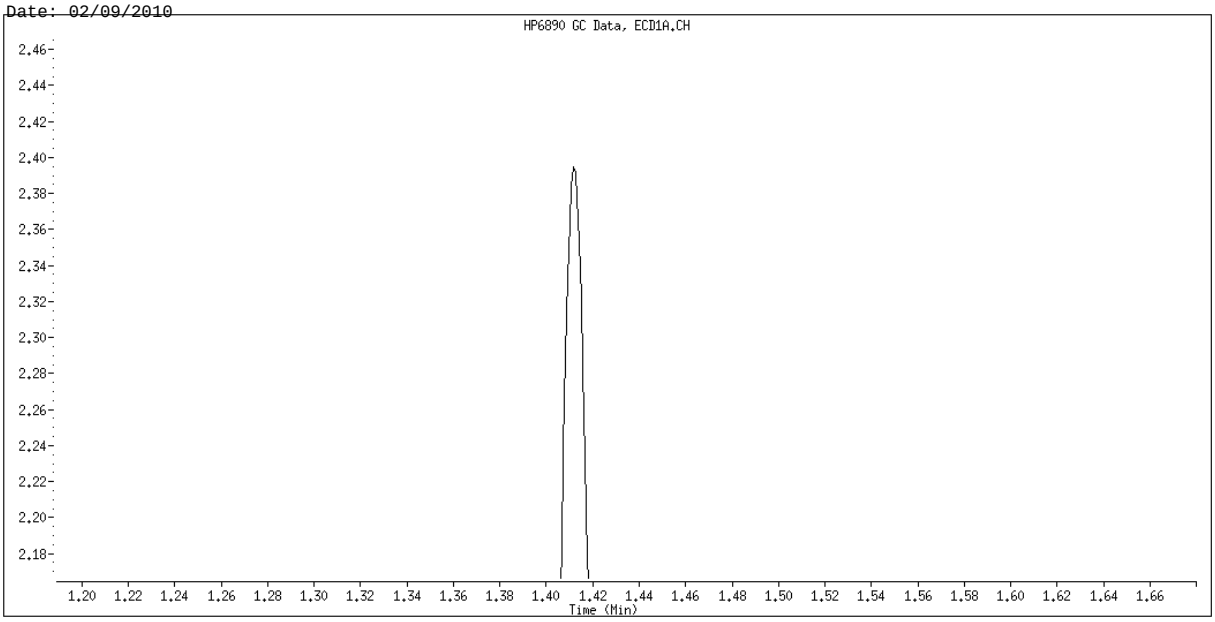
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
Date : 08-FEB-2010 21:36
Client ID:
Sample Info: 1254,,1,5

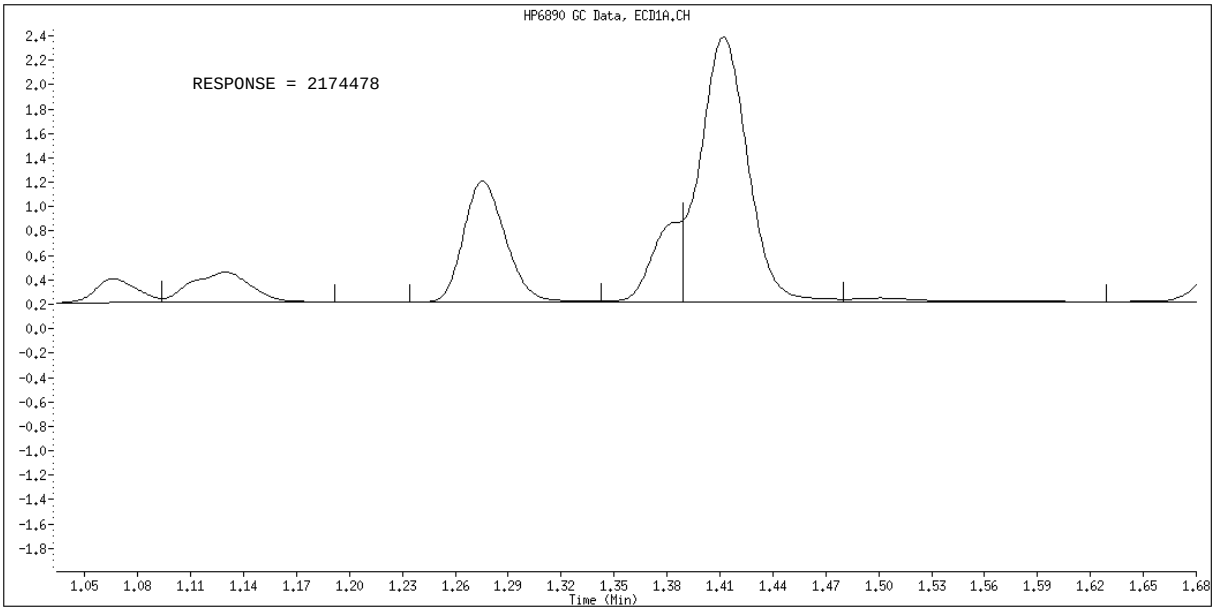
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 024F2401.D
Inj. Date and Time: 08-FEB-2010 21:36
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:52
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,6
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 25 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

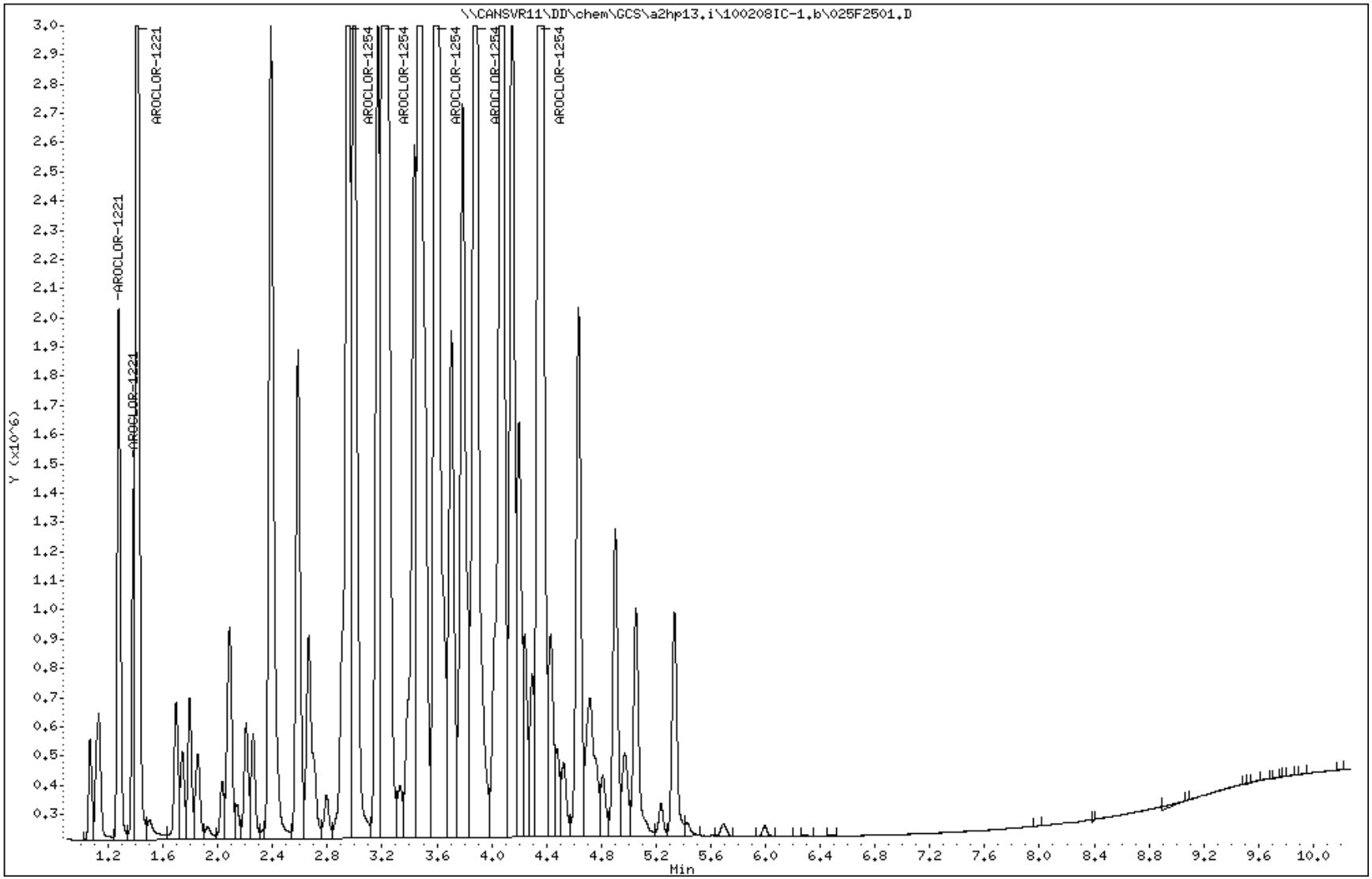
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.951	2.951	0.000	3993114	2.00000	1.722	75.00- 125.00	100.00
3.213	3.213	0.000	5202748	2.00000	1.710	98.18- 163.63	130.29
3.597	3.597	0.000	7349171	2.00000	1.800	132.08- 220.13	184.05
3.881	3.881	0.000	5165624	2.00000	1.833	89.69- 149.48	129.36
4.354	4.354	0.000	6173201	2.00000	1.824	107.68- 179.46	154.60
Average of Peak Amounts =					1.77780		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.276	1.276	0.000	1819592	2.00000	1.602	75.00- 125.00	100.00(M)
1.391	1.391	0.000	1279813	2.00000	1.703	49.63- 82.71	70.34
1.412	1.412	0.000	3890421	2.00000	1.544	164.10- 273.51	213.81
Average of Peak Amounts =					1.61633		

QC Flag Legend

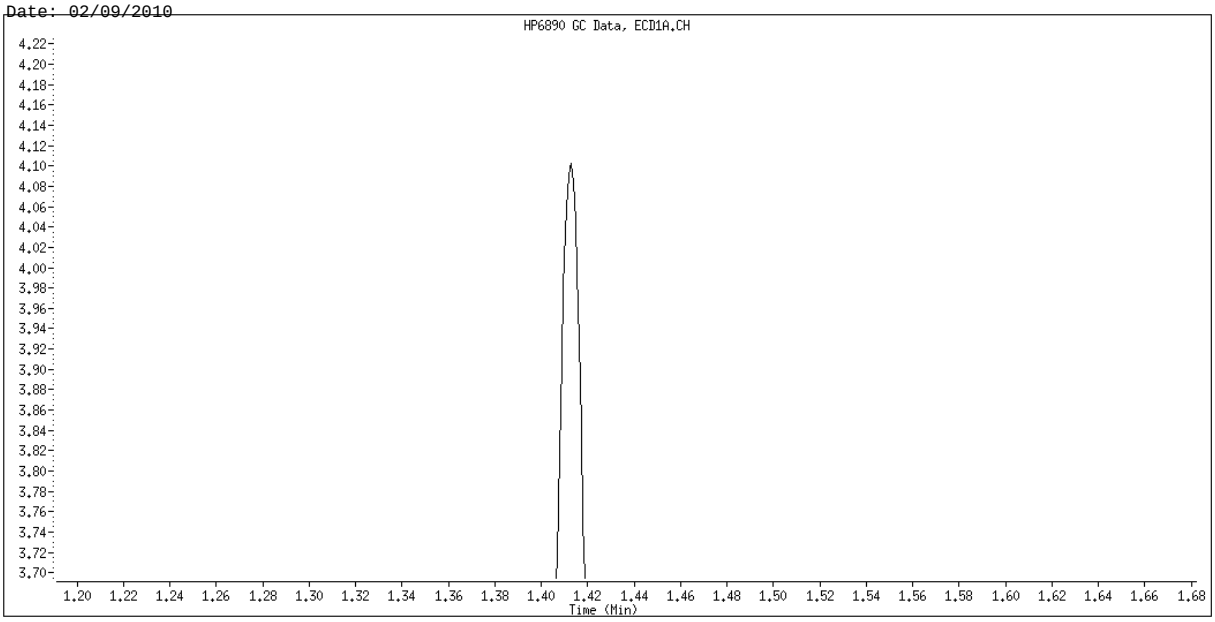
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
Date : 08-FEB-2010 21:52
Client ID:
Sample Info: 1254,,1,6

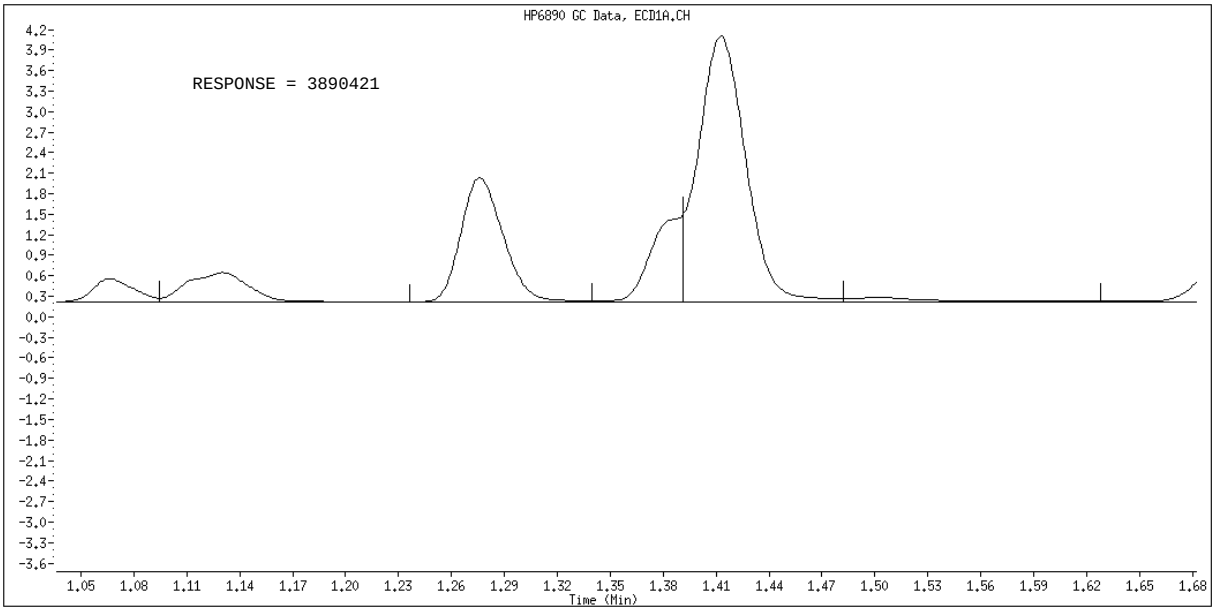
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 025F2501.D
Inj. Date and Time: 08-FEB-2010 21:52
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

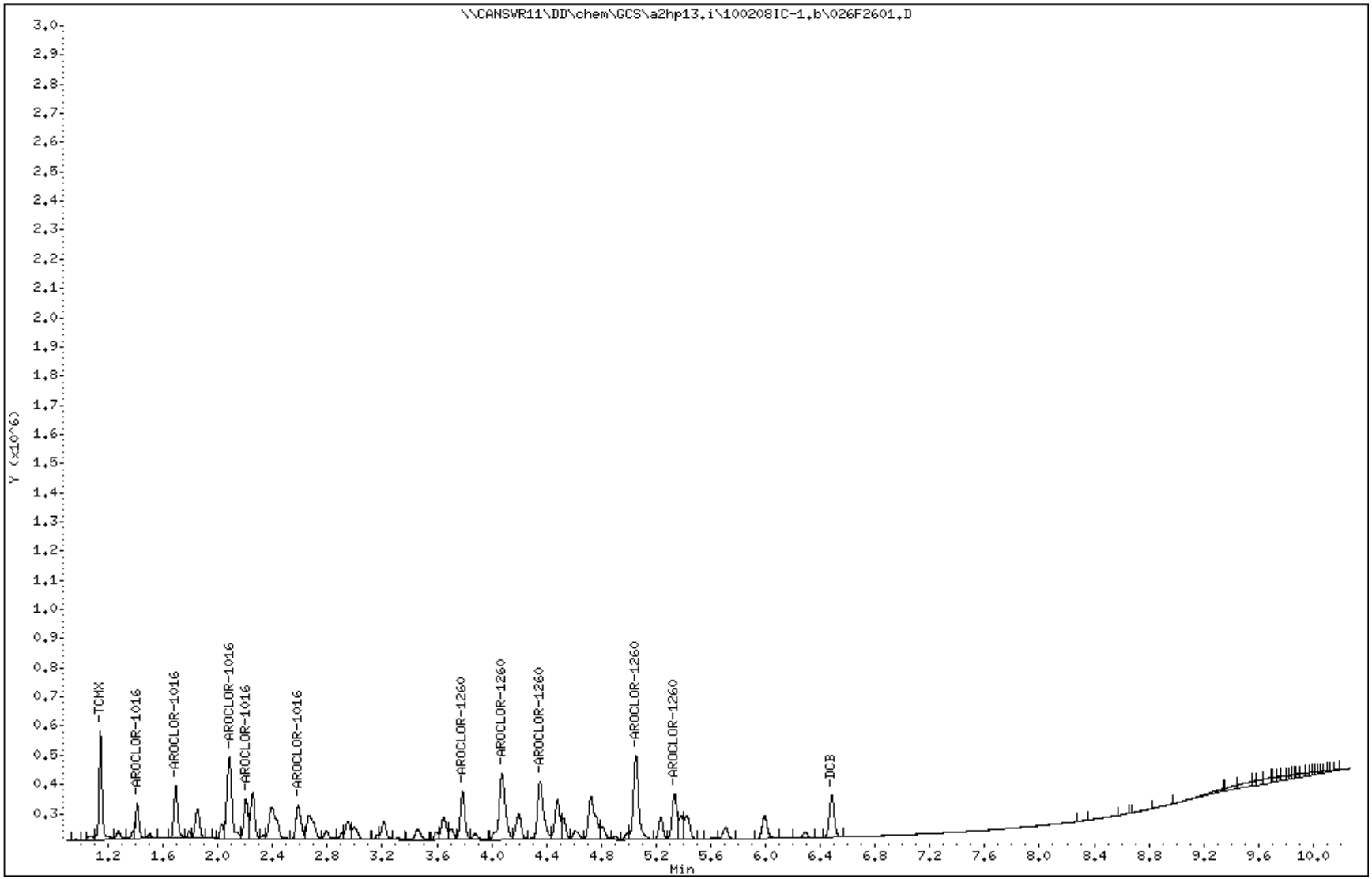
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:07
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,1
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 26 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.142	1.144	-0.002	370534	0.00250	0.002982		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.411	1.419	-0.008	205324	0.05000	0.05773	80.00- 120.00	100.00
1.692	1.703	-0.011	351930	0.05000	0.05718	118.89- 198.15	171.40
2.084	2.095	-0.011	701292	0.05000	0.05403	250.35- 417.24	341.55
2.205	2.217	-0.012	286467	0.05000	0.05379	104.90- 174.84	139.52
2.586	2.599	-0.013	286259	0.05000	0.05398	107.74- 179.57	139.42
	Average of Peak Amounts =				0.05534		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.786	3.800	-0.014	160830	0.05000	0.05328	80.00- 120.00	100.00
4.074	4.088	-0.014	223463	0.05000	0.05287	103.77- 172.95	138.94
4.353	4.366	-0.013	197363	0.05000	0.05125	95.99- 159.98	122.72
5.054	5.066	-0.012	285880	0.05000	0.04966	151.41- 252.34	177.75
5.334	5.346	-0.012	152897	0.05000	0.04986	81.94- 136.57	95.07
	Average of Peak Amounts =				0.05138		
$ 9 DCB					CAS #: 2051-24-3		
6.482	6.483	-0.001	142510	0.00250	0.002569		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
Date : 08-FEB-2010 22:07
Client ID:
Sample Info: 1660,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:21
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,2
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 27 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

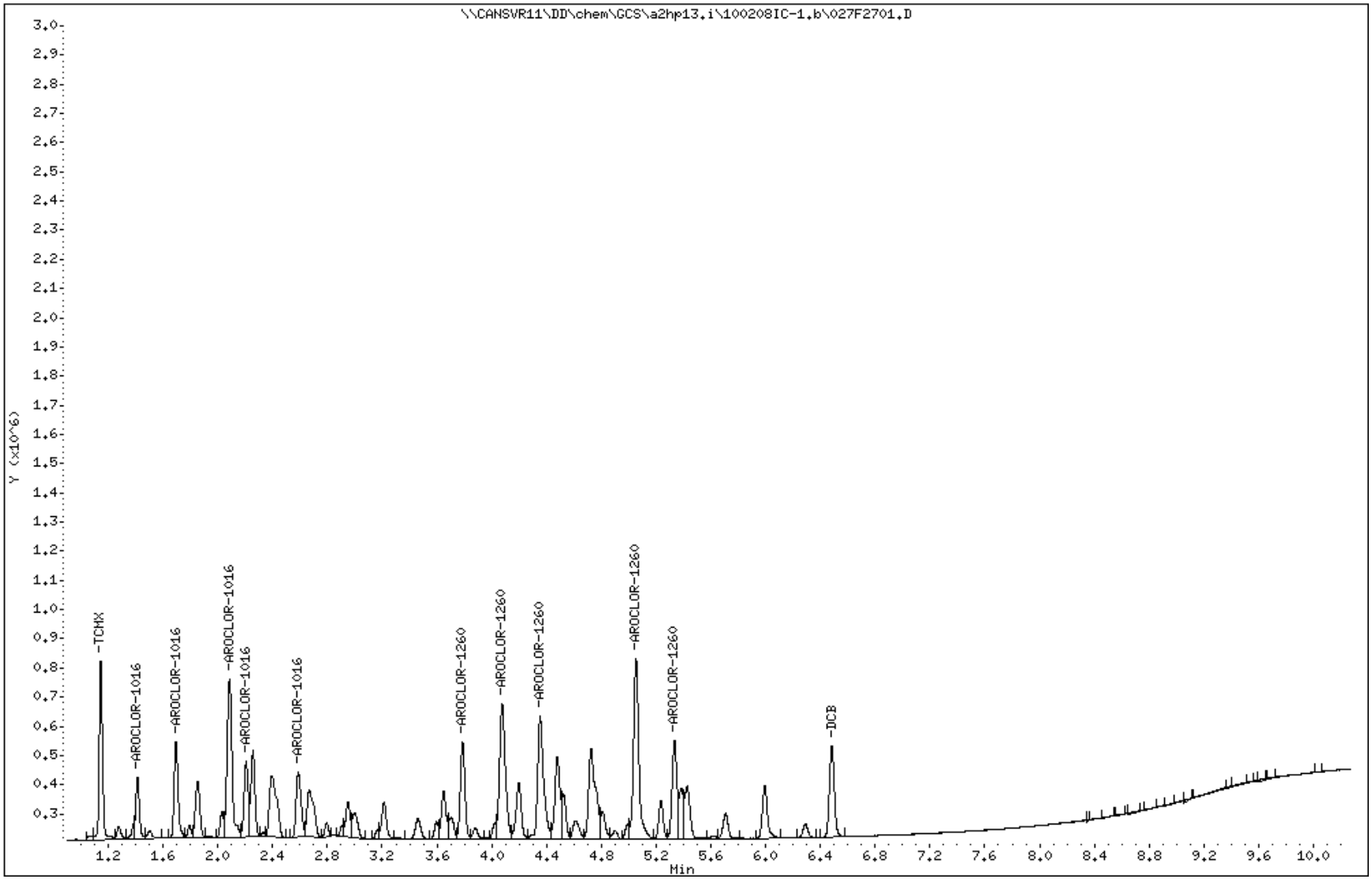
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	613205	0.00500	0.004936		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.419	-0.007	397550	0.10000	0.1118	80.00- 120.00	100.00(M)
1.694	1.703	-0.009	668730	0.10000	0.1086	118.89- 198.15	168.21
2.085	2.095	-0.010	1381552	0.10000	0.1064	250.35- 417.24	347.52
2.206	2.217	-0.011	545991	0.10000	0.1025	104.90- 174.84	137.34
2.586	2.599	-0.013	557809	0.10000	0.1052	107.74- 179.57	140.31
	Average of Peak Amounts =				0.10690		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.800	-0.013	331496	0.10000	0.1098	80.00- 120.00	100.00
4.075	4.088	-0.013	463528	0.10000	0.1097	103.77- 172.95	139.83
4.353	4.366	-0.013	419169	0.10000	0.1088	95.99- 159.98	126.45
5.053	5.066	-0.013	618323	0.10000	0.1074	151.41- 252.34	186.53
5.335	5.346	-0.011	334119	0.10000	0.1090	81.94- 136.57	100.79
	Average of Peak Amounts =				0.10894		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	310216	0.00500	0.005592		

QC Flag Legend

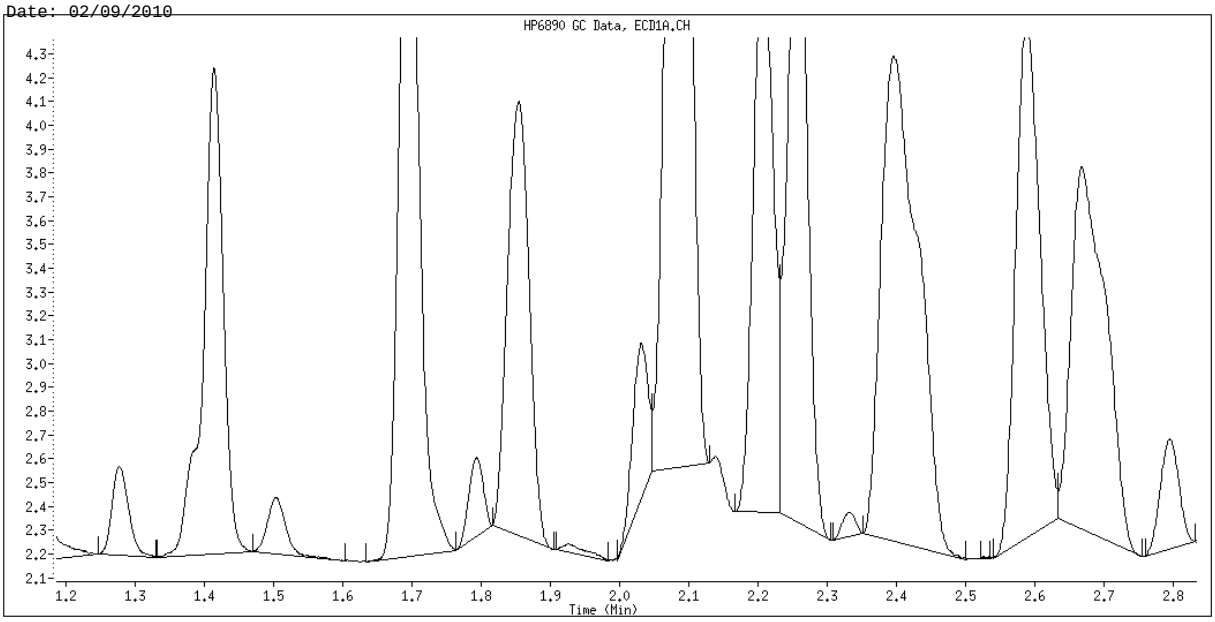
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
Date : 08-FEB-2010 22:21
Client ID:
Sample Info: 1660,,1,2

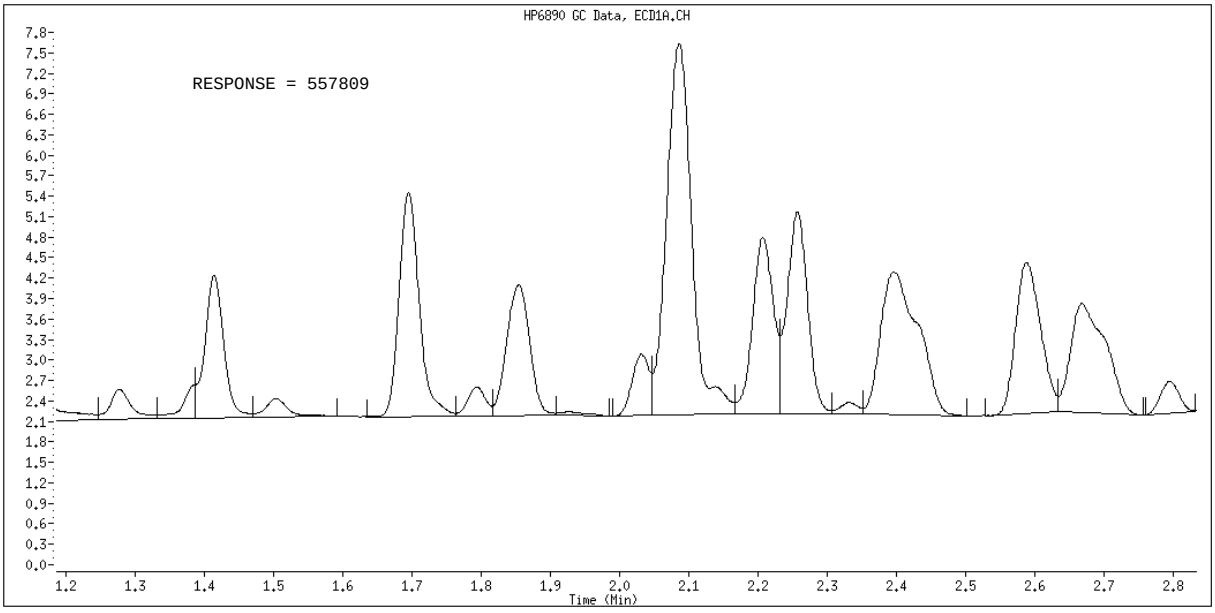
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 027F2701.D
Inj. Date and Time: 08-FEB-2010 22:21
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:36
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,3
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 28 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

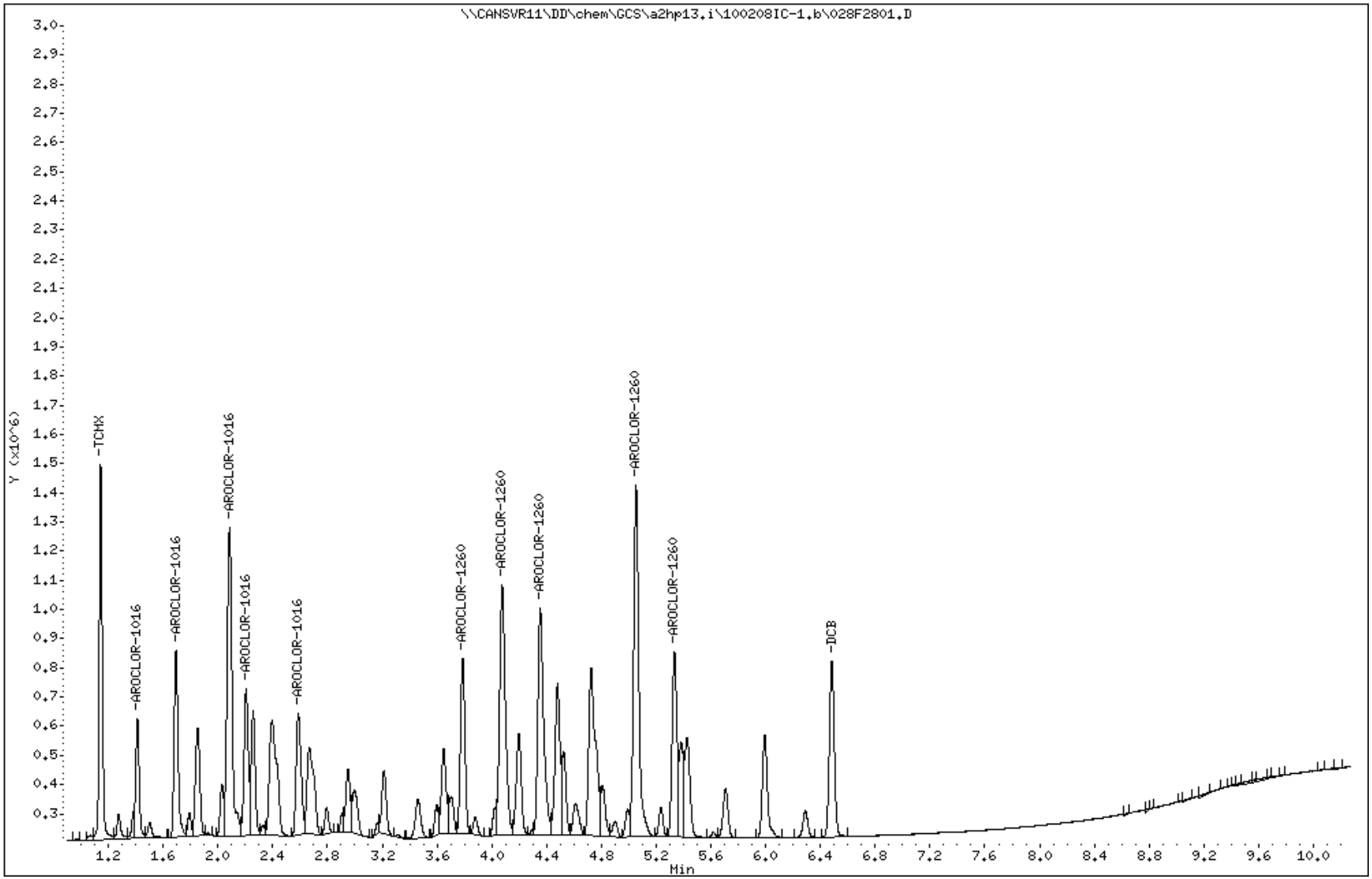
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.143	1.144	-0.001	1286875	0.01000	0.01036		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.413	-0.001	745574	0.20000	0.2006	80.00- 120.00	100.00(M)
1.693	1.694	-0.001	1276893	0.20000	0.2075	143.75- 239.59	171.26
2.085	2.086	-0.001	2694003	0.20000	0.2076	299.95- 499.92	361.33
2.205	2.207	-0.002	1090459	0.20000	0.2047	122.54- 204.23	146.26
2.586	2.588	-0.002	1052194	0.20000	0.1984	130.89- 218.15	141.13
	Average of Peak Amounts =				0.20376		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.789	-0.002	602812	0.20000	0.1997	80.00- 120.00	100.00
4.075	4.077	-0.002	853453	0.20000	0.2019	105.37- 175.62	141.58
4.353	4.355	-0.002	777892	0.20000	0.2020	97.55- 162.58	129.04
5.054	5.054	0.000	1201658	0.20000	0.2087	154.28- 257.13	199.34
5.333	5.336	-0.003	635642	0.20000	0.2073	84.36- 140.61	105.45
	Average of Peak Amounts =				0.20392		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	600816	0.01000	0.01083		

QC Flag Legend

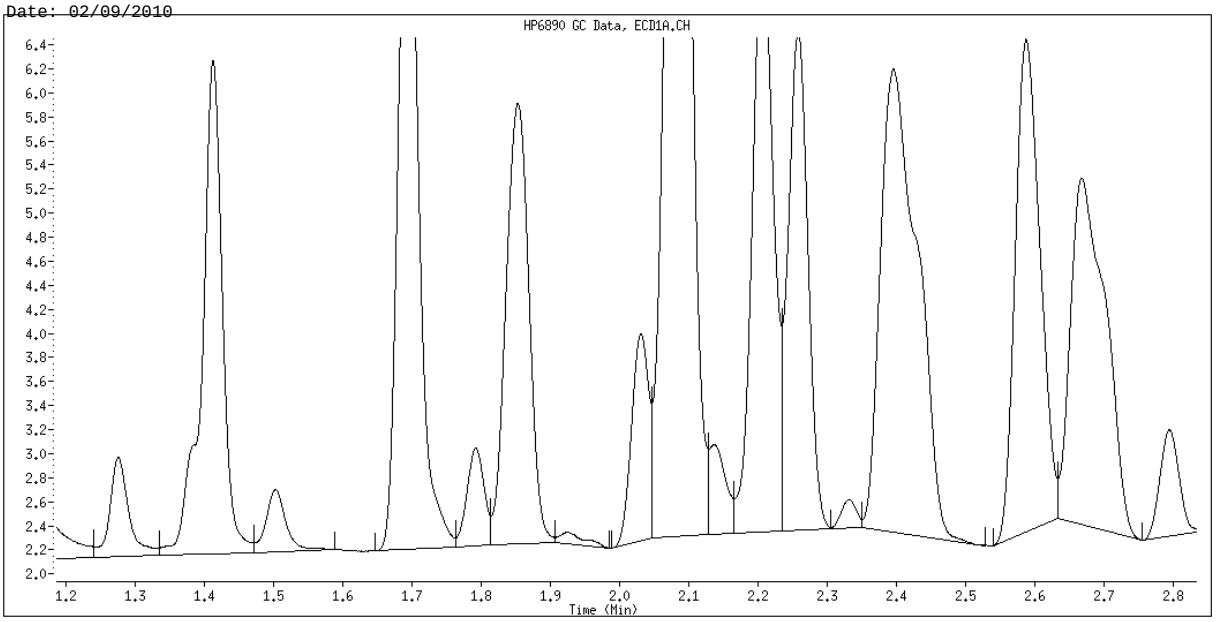
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
Date : 08-FEB-2010 22:36
Client ID:
Sample Info: 1660,,1,3
Column phase: restek pest clpI

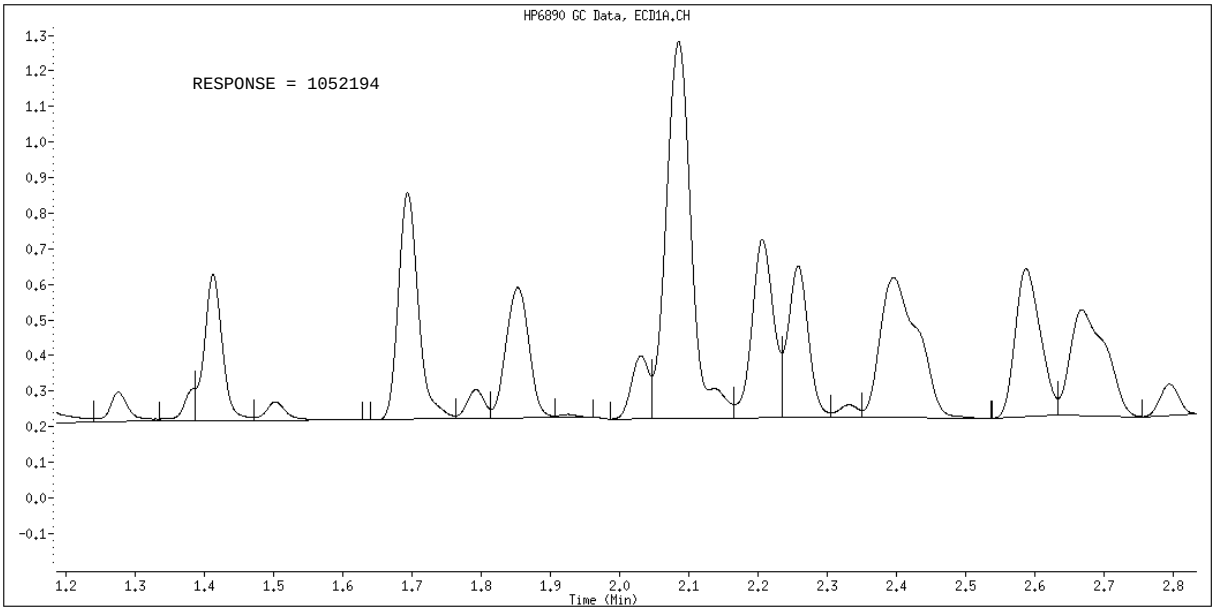
Instrument: a2hp13.i
Operator:
Column diameter: 0.53



Data File Name: 028F2801.D
Inj. Date and Time: 08-FEB-2010 22:36
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

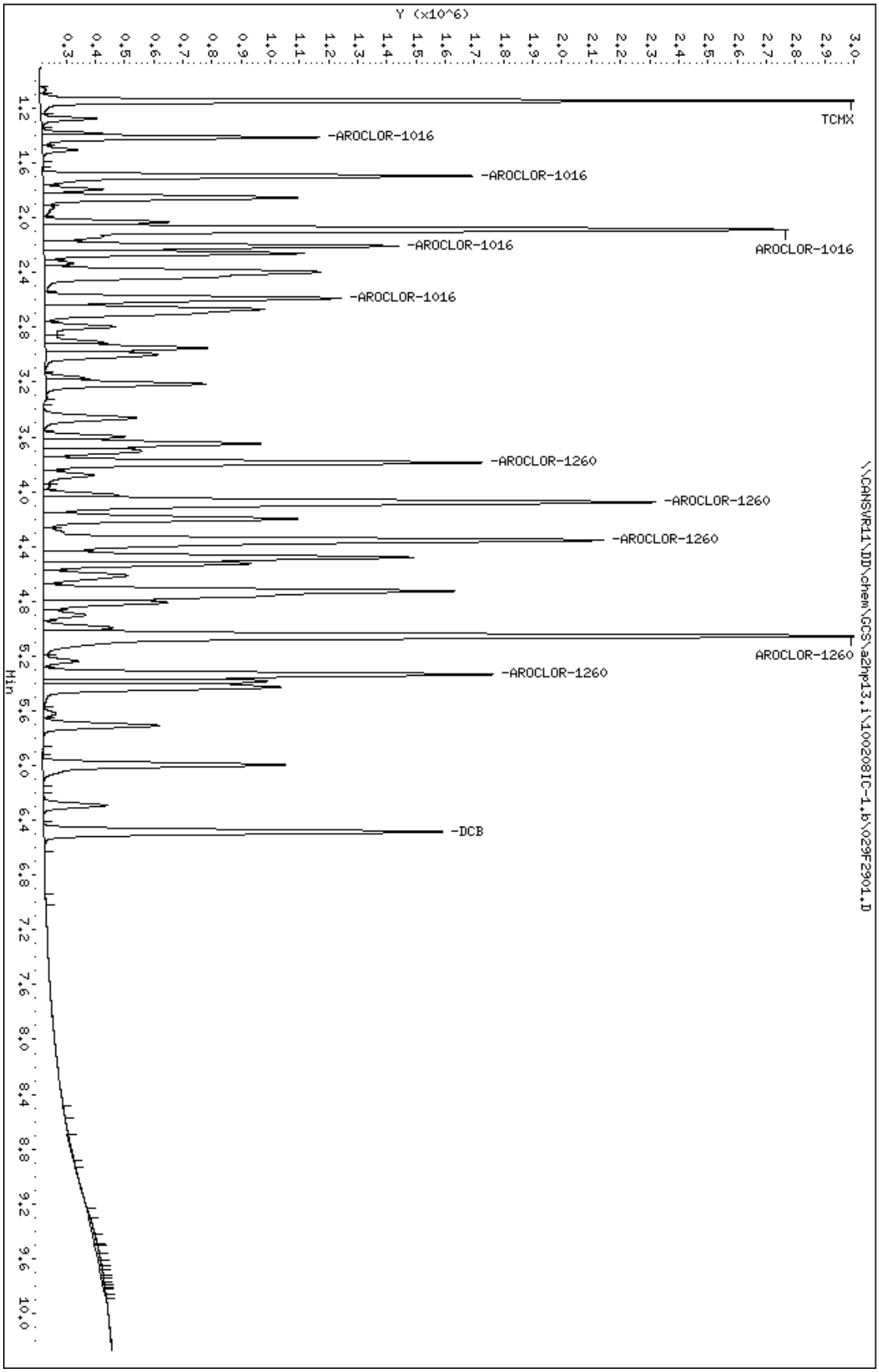
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:52
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,4
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 29 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

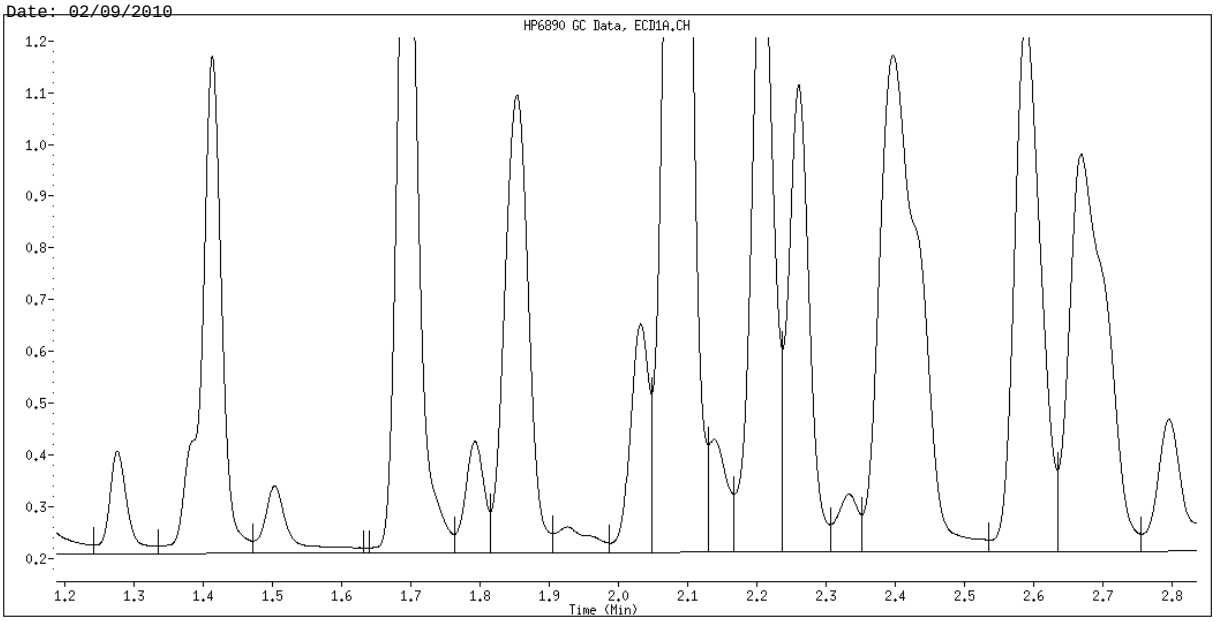
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	2946075	0.02500	0.02371		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.413	1.419	-0.006	1704759	0.50000	0.4793	80.00- 120.00	100.00(M)
1.694	1.703	-0.009	3000570	0.50000	0.4875	118.89- 198.15	176.01
2.085	2.095	-0.010	6536061	0.50000	0.5036	250.35- 417.24	383.40
2.206	2.217	-0.011	2666709	0.50000	0.5007	104.90- 174.84	156.43
2.588	2.599	-0.011	2633951	0.50000	0.4966	107.74- 179.57	154.51
	Average of Peak Amounts =				0.49354		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.789	3.800	-0.011	1504383	0.50000	0.4984	80.00- 120.00	100.00
4.076	4.088	-0.012	2098213	0.50000	0.4964	103.77- 172.95	139.47
4.354	4.366	-0.012	1920999	0.50000	0.4988	95.99- 159.98	127.69
5.054	5.066	-0.012	2920852	0.50000	0.5073	151.41- 252.34	194.16
5.335	5.346	-0.011	1541704	0.50000	0.5028	81.94- 136.57	102.48
	Average of Peak Amounts =				0.50074		
$ 9 DCB					CAS #: 2051-24-3		
6.484	6.483	0.001	1365386	0.02500	0.02461		

QC Flag Legend

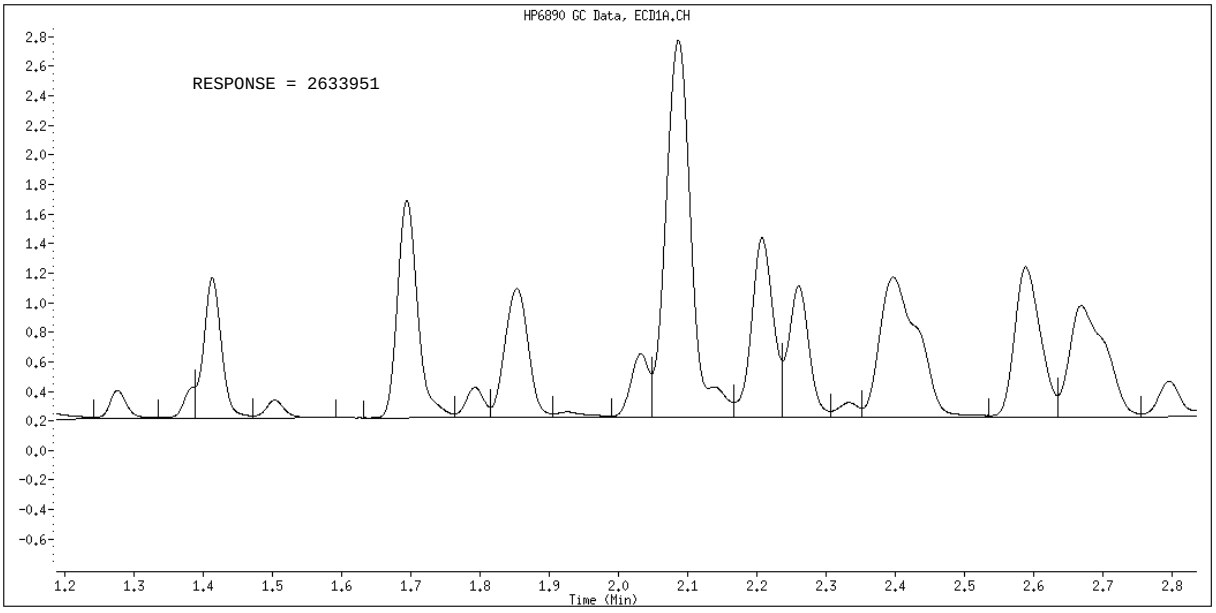
M - Compound response manually integrated.


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
Date : 08-FEB-2010 22:52
Client ID:
Sample Info: 1660,,1.4
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
Min
TCMX
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1260
-AROCLOR-1260
-AROCLOR-1260
AROCLOR-1260
-AROCLOR-1260
-DCB
\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D

Data File Name: 029F2901.D
Inj. Date and Time: 08-FEB-2010 22:52
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

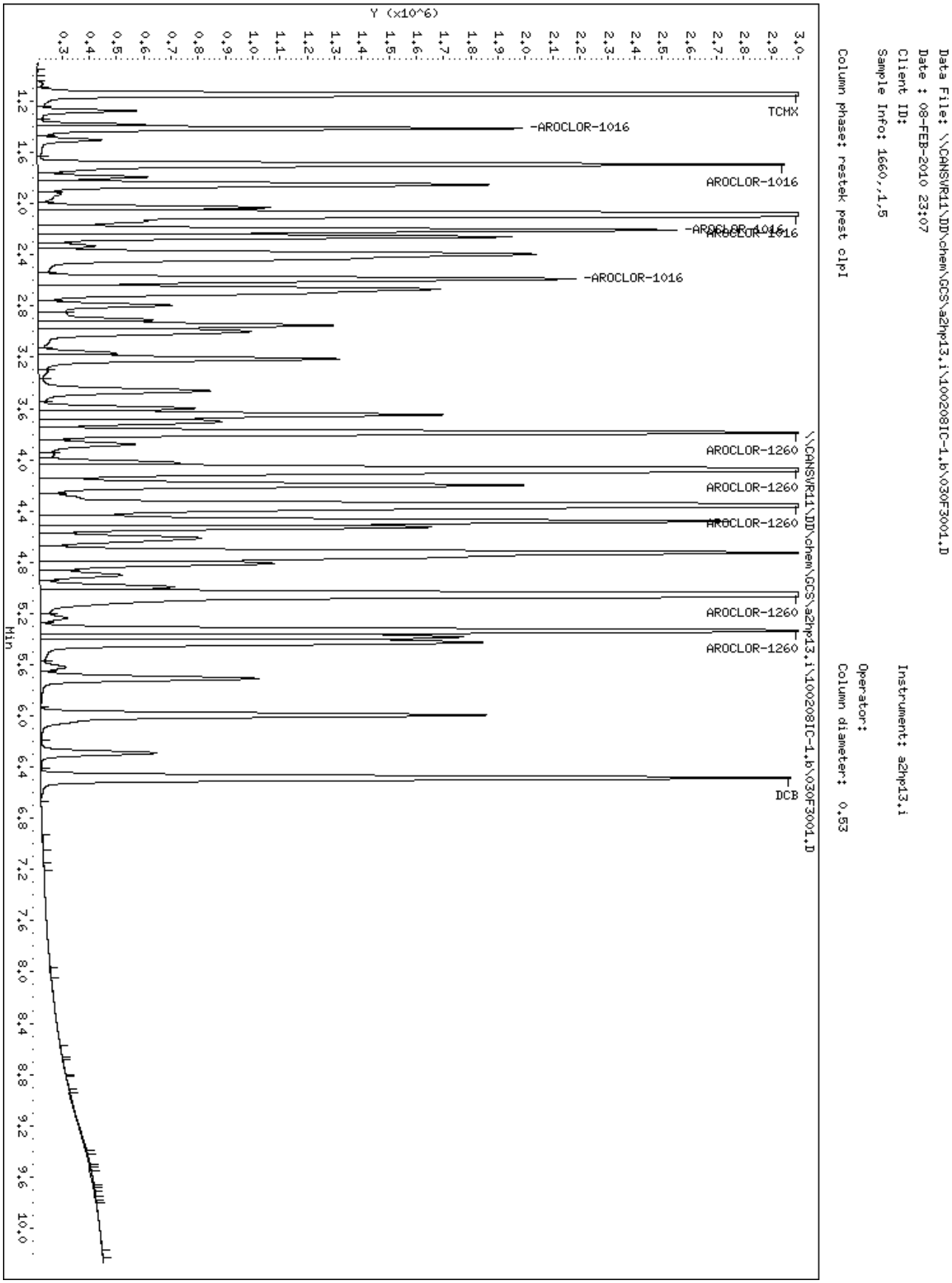
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 23:07
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,5
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 30 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

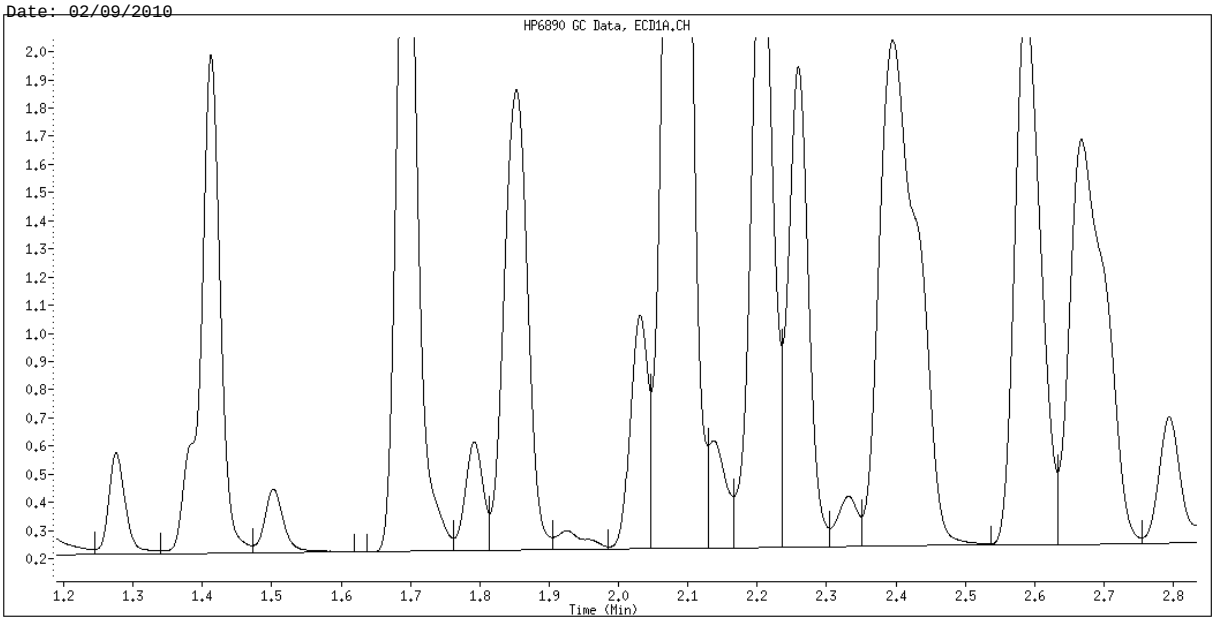
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	5775199	0.05000	0.04649		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.413	-0.001	3191408	1.00000	0.8973	80.00- 120.00	100.00(M)
1.693	1.694	-0.001	5678041	1.00000	0.9226	143.75- 239.59	177.92
2.084	2.086	-0.002	12630703	1.00000	0.9732	299.95- 499.92	395.77
2.206	2.207	-0.001	5176357	1.00000	0.9719	122.54- 204.23	162.20
2.588	2.588	0.000	5179034	1.00000	0.9765	130.89- 218.15	162.28
		Average of Peak Amounts =			0.94830		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.788	3.789	-0.001	2930328	1.00000	0.9708	80.00- 120.00	100.00
4.075	4.077	-0.002	4152767	1.00000	0.9826	105.37- 175.62	141.72
4.354	4.355	-0.001	3851293	1.00000	1.000	97.55- 162.58	131.43
5.054	5.054	0.000	5808119	1.00000	1.009	154.28- 257.13	198.21
5.334	5.336	-0.002	3085732	1.00000	1.006	84.36- 140.61	105.30
		Average of Peak Amounts =			0.99368		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	2748454	0.05000	0.04955		

QC Flag Legend

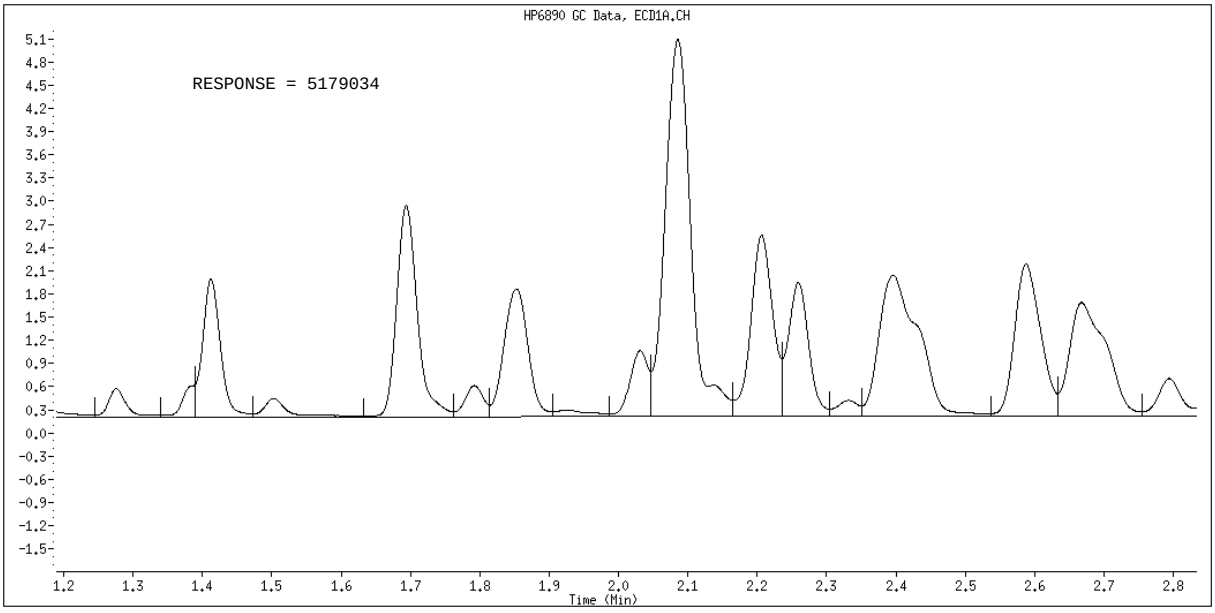
M - Compound response manually integrated.


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
Date : 08-FEB-2010 23:07
Client ID:
Sample Info: 1660,,1.5
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
TCMX
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
DCB
\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
Min

Data File Name: 030F3001.D
Inj. Date and Time: 08-FEB-2010 23:07
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

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PCB 8082/608

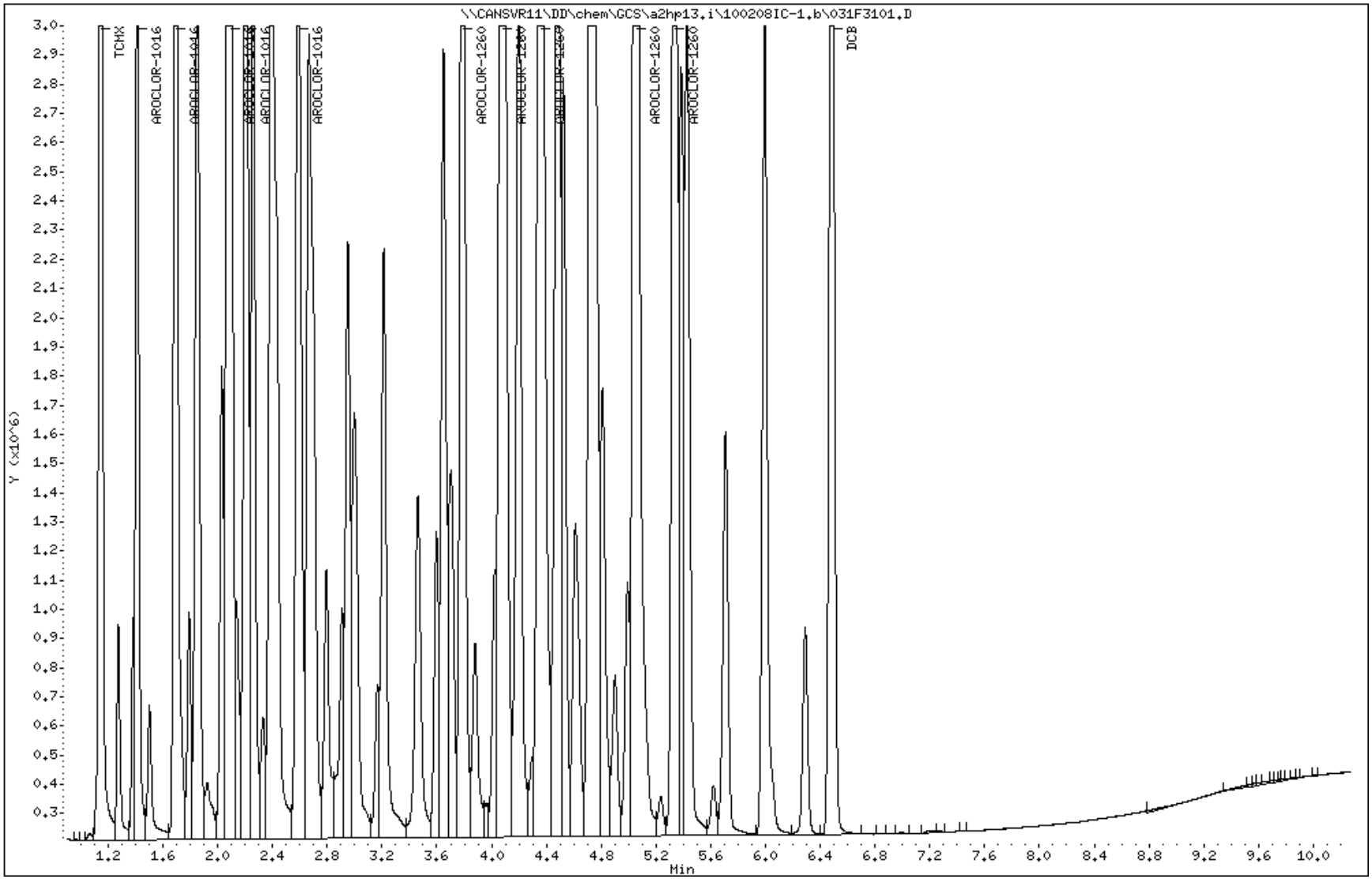
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 23:21
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,6
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 31 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.143	1.144	-0.001	11251198	0.10000	0.09056		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.411	1.419	-0.008	5856334	2.00000	1.647	80.00- 120.00	100.00
1.692	1.703	-0.011	10274046	2.00000	1.669	118.89- 198.15	175.43
2.084	2.095	-0.011	21717964	2.00000	1.673	250.35- 417.24	370.85
2.204	2.217	-0.013	9608926	2.00000	1.804	104.90- 174.84	164.08
2.586	2.599	-0.013	9619560	2.00000	1.814	107.74- 179.57	164.26
	Average of Peak Amounts =				1.72140		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.800	-0.013	5250564	2.00000	1.740	80.00- 120.00	100.00
4.075	4.088	-0.013	7275828	2.00000	1.721	103.77- 172.95	138.57
4.353	4.366	-0.013	6766760	2.00000	1.757	95.99- 159.98	128.88
5.054	5.066	-0.012	9969924	2.00000	1.732	151.41- 252.34	189.88
5.334	5.346	-0.012	5304446	2.00000	1.730	81.94- 136.57	101.03
	Average of Peak Amounts =				1.73600		
$ 9 DCB					CAS #: 2051-24-3		
6.484	6.483	0.001	4411722	0.10000	0.07953		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
Date : 08-FEB-2010 23:21
Client ID:
Sample Info: 1660,,1,6

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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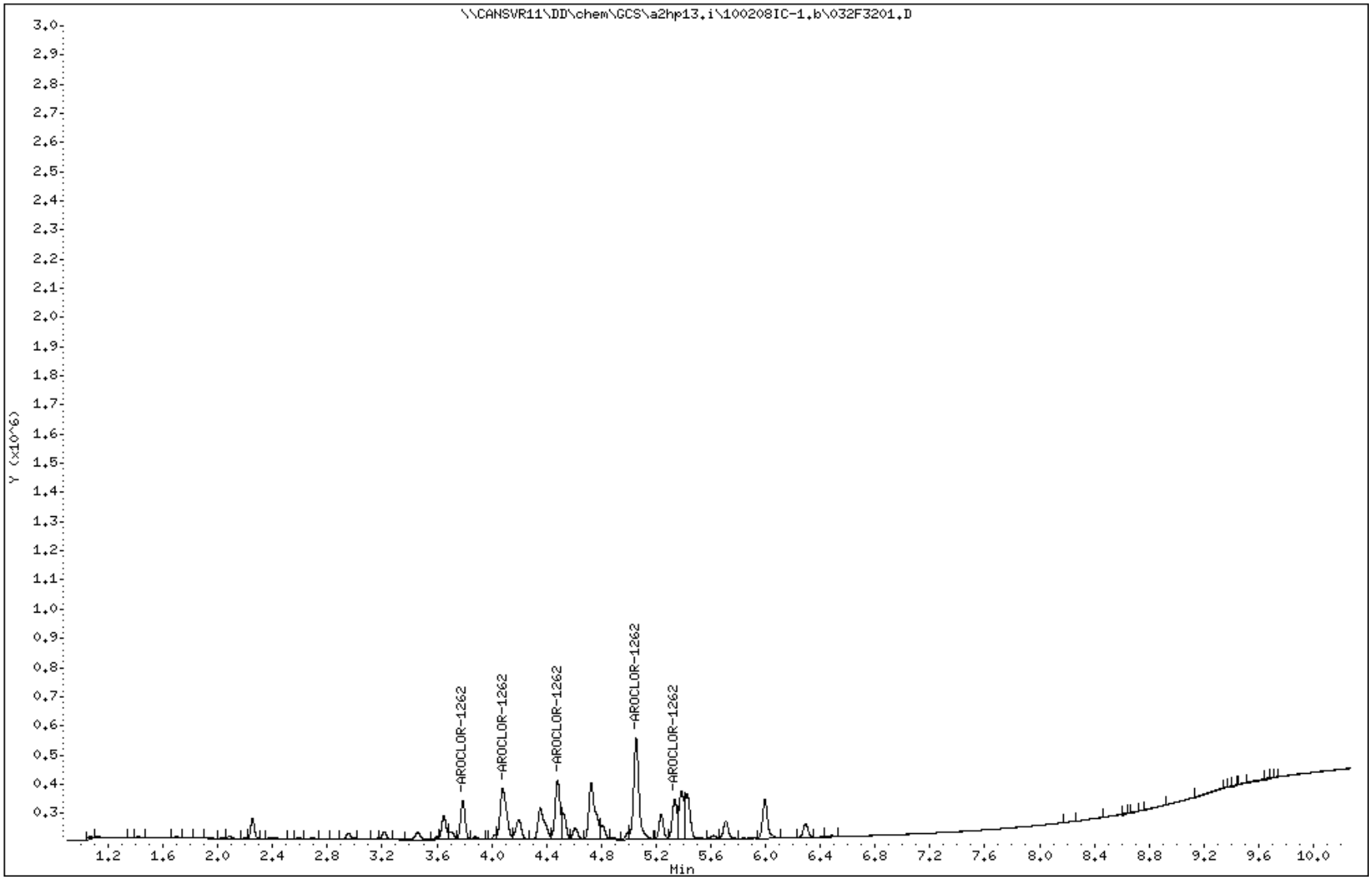
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
Lab Smp Id: 1262
Inj Date : 08-FEB-2010 23:37
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,1
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 32 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	132259	0.05000	0.05626	75.00- 125.00	100.00
4.078	4.079	-0.001	175323	0.05000	0.05636	98.90- 164.83	132.56
4.481	4.481	0.000	203044	0.05000	0.05590	115.68- 192.80	153.52
5.054	5.054	0.000	344431	0.05000	0.05392	208.14- 346.90	260.42
5.335	5.336	-0.001	135634	0.05000	0.05585	78.27- 130.46	102.55
		Average of Peak Amounts =			0.05566		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
Date : 08-FEB-2010 23:37
Client ID:
Sample Info: 1262,,1,1

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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PCB 8082/608

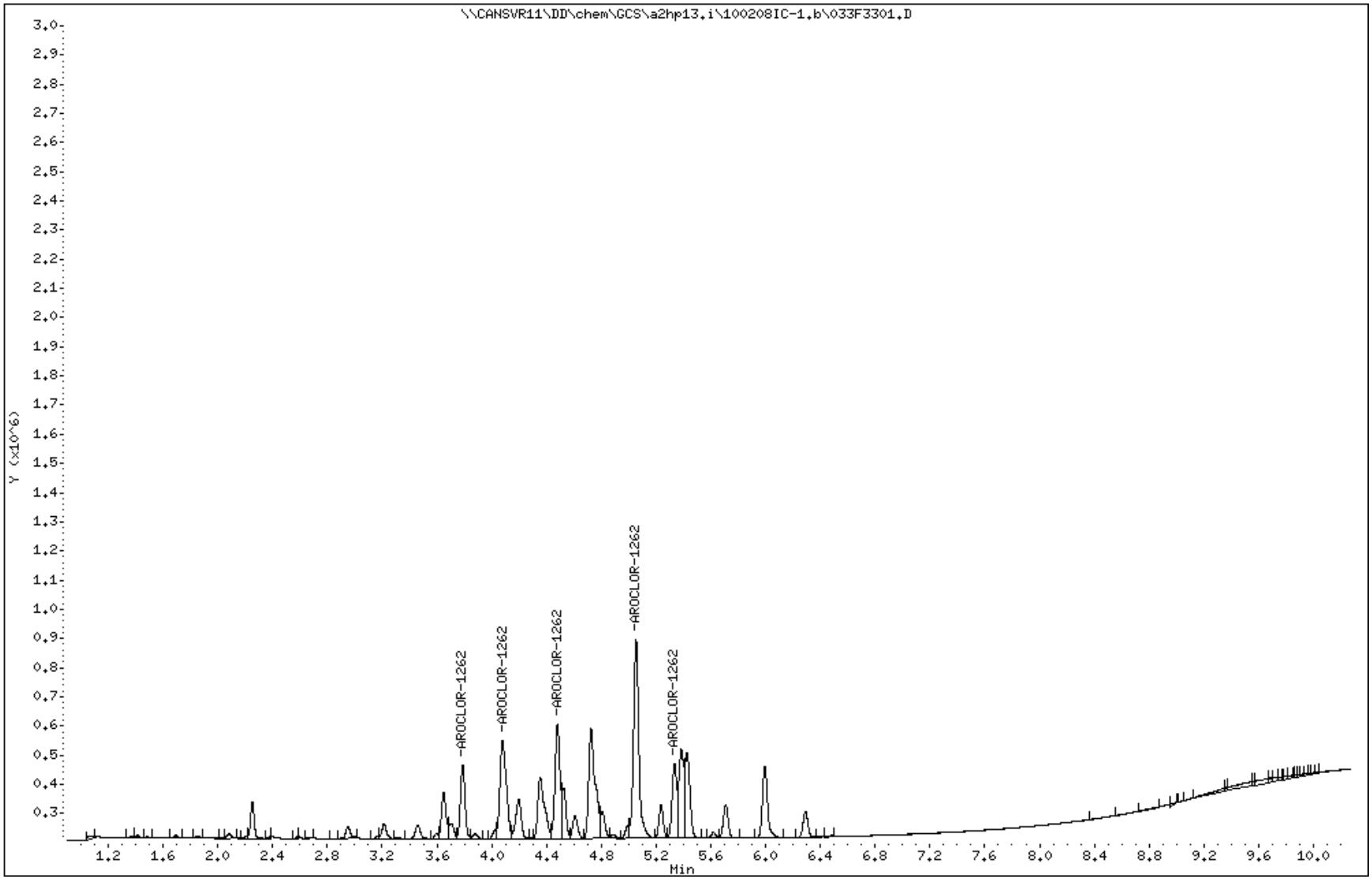
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
Lab Smp Id: 1262
Inj Date : 08-FEB-2010 23:52
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,2
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 33 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.787	3.788	-0.001	254625	0.10000	0.1083	75.00- 125.00	100.00
4.078	4.079	-0.001	336788	0.10000	0.1083	98.90- 164.83	132.27
4.479	4.481	-0.002	391610	0.10000	0.1078	115.68- 192.80	153.80
5.053	5.054	-0.001	680132	0.10000	0.1065	208.14- 346.90	267.11
5.334	5.336	-0.002	253522	0.10000	0.1044	78.27- 130.46	99.57
		Average of Peak Amounts =			0.10706		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
Date : 08-FEB-2010 23:52
Client ID:
Sample Info: 1262,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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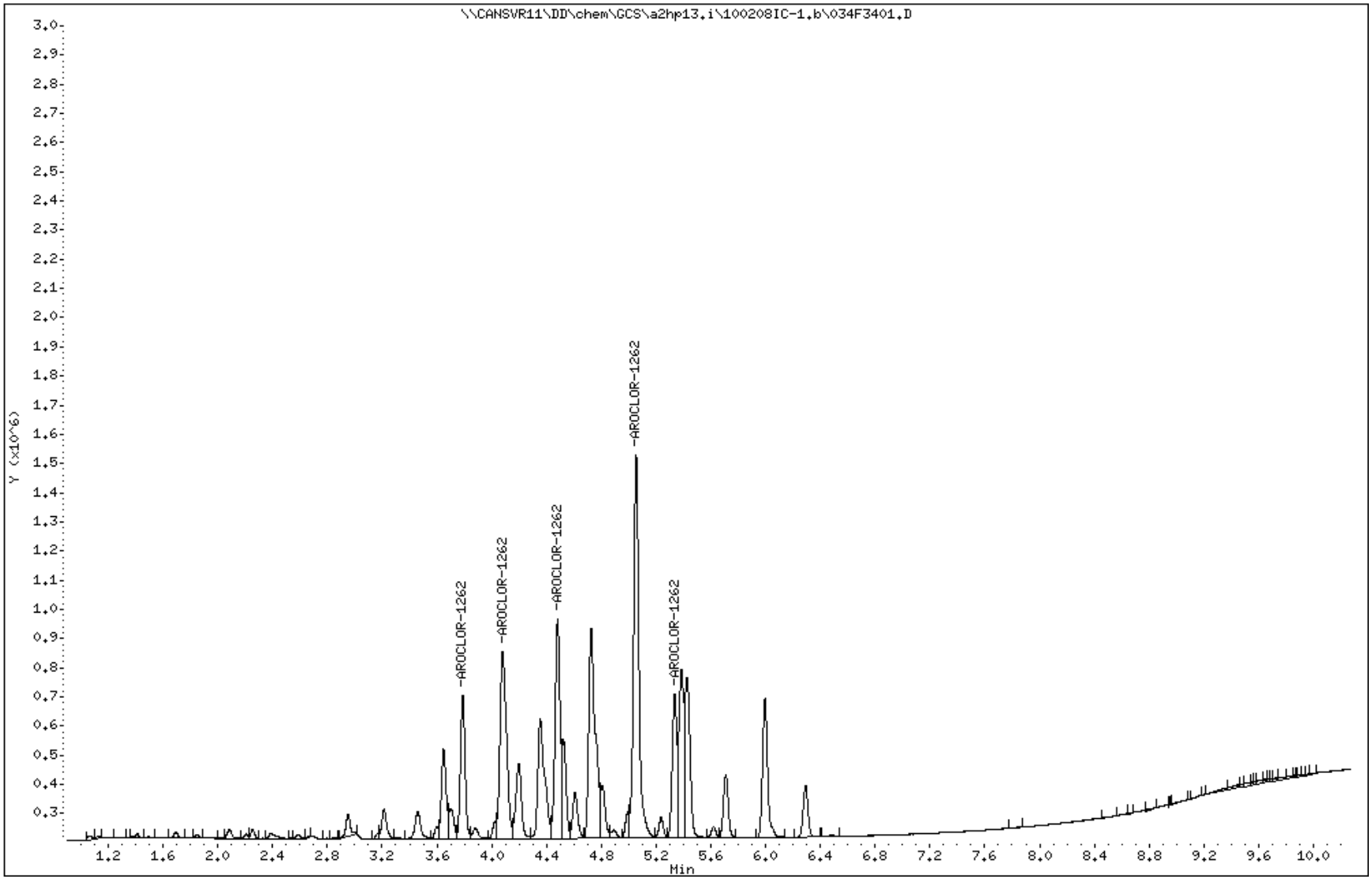
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:06
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,3
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 34 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	491305	0.20000	0.2090	75.00- 125.00	100.00
4.078	4.079	-0.001	639653	0.20000	0.2056	98.90- 164.83	130.19
4.480	4.481	-0.001	750581	0.20000	0.2066	115.68- 192.80	152.77
5.054	5.054	0.000	1313826	0.20000	0.2057	208.14- 346.90	267.42
5.336	5.336	0.000	490755	0.20000	0.2021	78.27- 130.46	99.89
		Average of Peak Amounts =			0.20580		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
Date : 09-FEB-2010 00:06
Client ID:
Sample Info: 1262,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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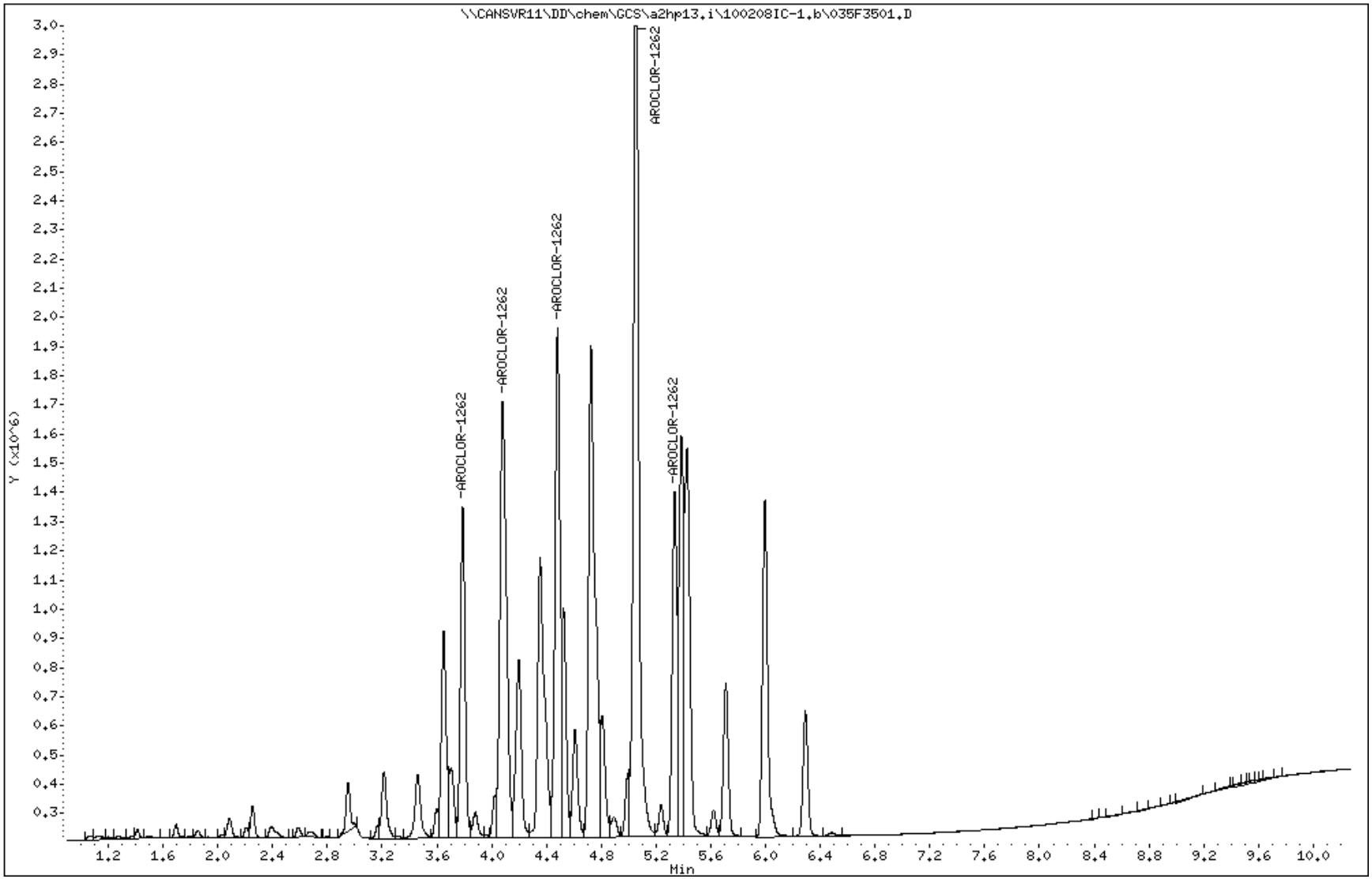
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:21
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,4
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 35 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	1133774	0.50000	0.4823	75.00- 125.00	100.00
4.078	4.079	-0.001	1495007	0.50000	0.4806	98.90- 164.83	131.86
4.480	4.481	-0.001	1748690	0.50000	0.4814	115.68- 192.80	154.24
5.053	5.054	-0.001	3146486	0.50000	0.4926	208.14- 346.90	277.52
5.335	5.336	-0.001	1183261	0.50000	0.4872	78.27- 130.46	104.36
		Average of Peak Amounts =			0.48482		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
Date : 09-FEB-2010 00:21
Client ID:
Sample Info: 1262,,1,4

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:36
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,5
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 36 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

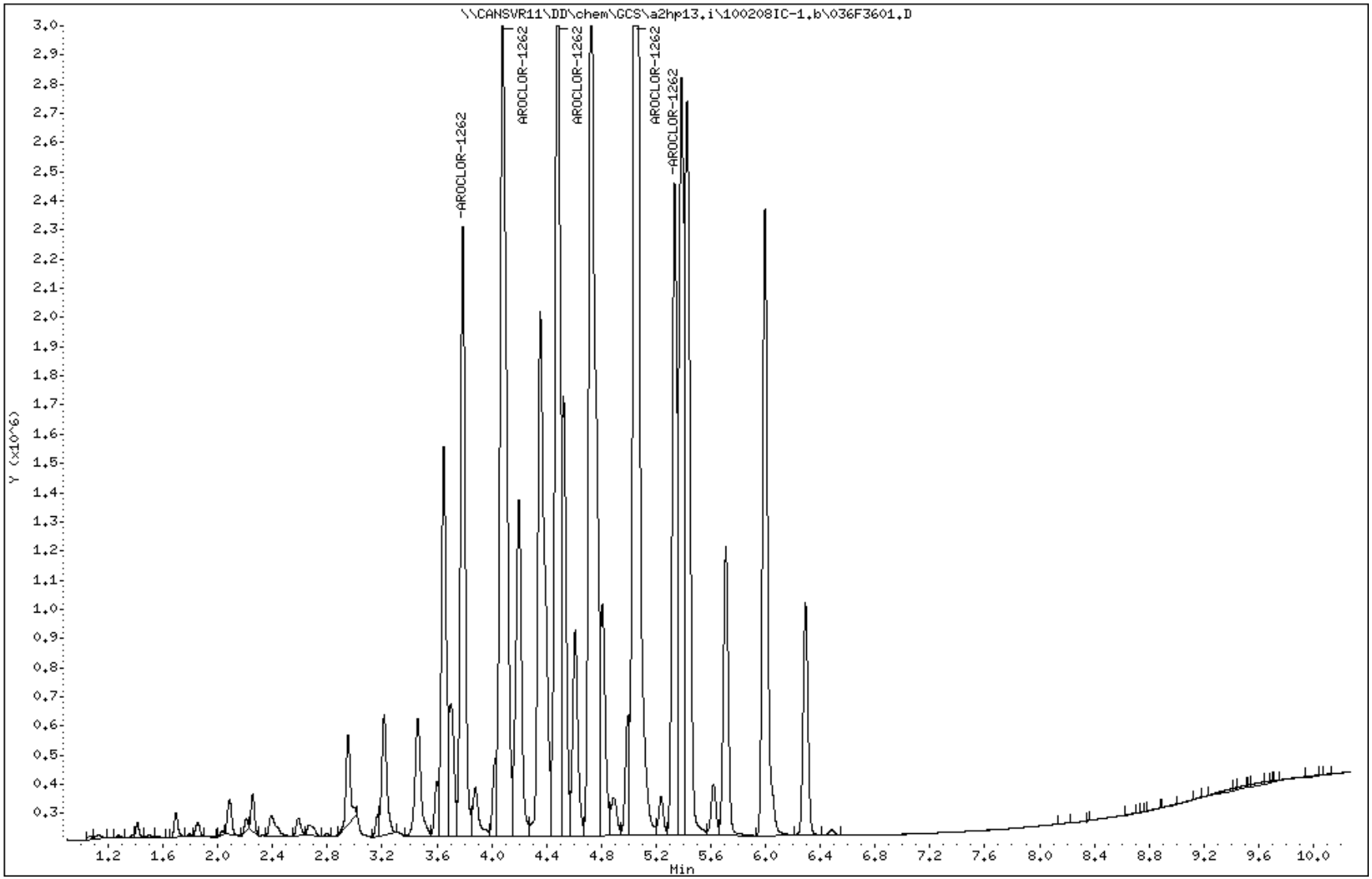
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	2088075	1.00000	0.8882	75.00- 125.00	100.00
4.079	4.079	0.000	2796289	1.00000	0.8989	98.90- 164.83	133.92
4.481	4.481	0.000	3287716	1.00000	0.9052	115.68- 192.80	157.45
5.054	5.054	0.000	5871569	1.00000	0.9192	208.14- 346.90	281.20
5.335	5.336	-0.001	2235996	1.00000	0.9207	78.27- 130.46	107.08
		Average of Peak Amounts =			0.90644		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
Date : 09-FEB-2010 00:36
Client ID:
Sample Info: 1262,,1,5

Column phase: restek pest clpI

Instrument: a2hp13.i

Operator:
Column diameter: 0.53



TestAmerica North Canton

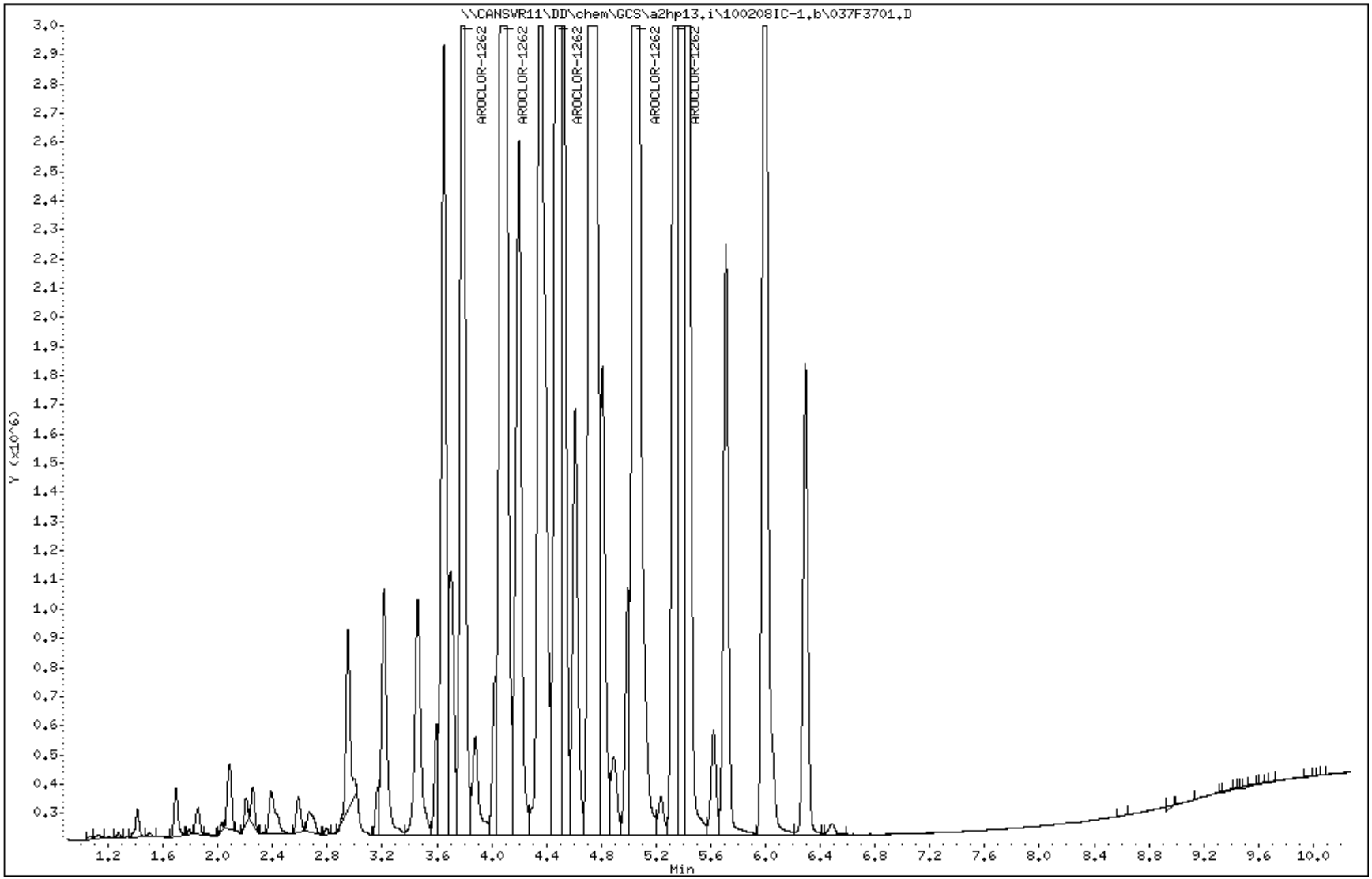
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:51
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,6
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 37 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	4202237	2.00000	1.788	75.00- 125.00	100.00
4.079	4.079	0.000	5609737	2.00000	1.803	98.90- 164.83	133.49
4.481	4.481	0.000	6554882	2.00000	1.805	115.68- 192.80	155.99
5.054	5.054	0.000	11809081	2.00000	1.849	208.14- 346.90	281.02
5.336	5.336	0.000	4533729	2.00000	1.867	78.27- 130.46	107.89
		Average of Peak Amounts =			1.82240		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
Date : 09-FEB-2010 00:51
Client ID:
Sample Info: 1262,,1,6
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



1119

North Canton

TestAmerica North Canton

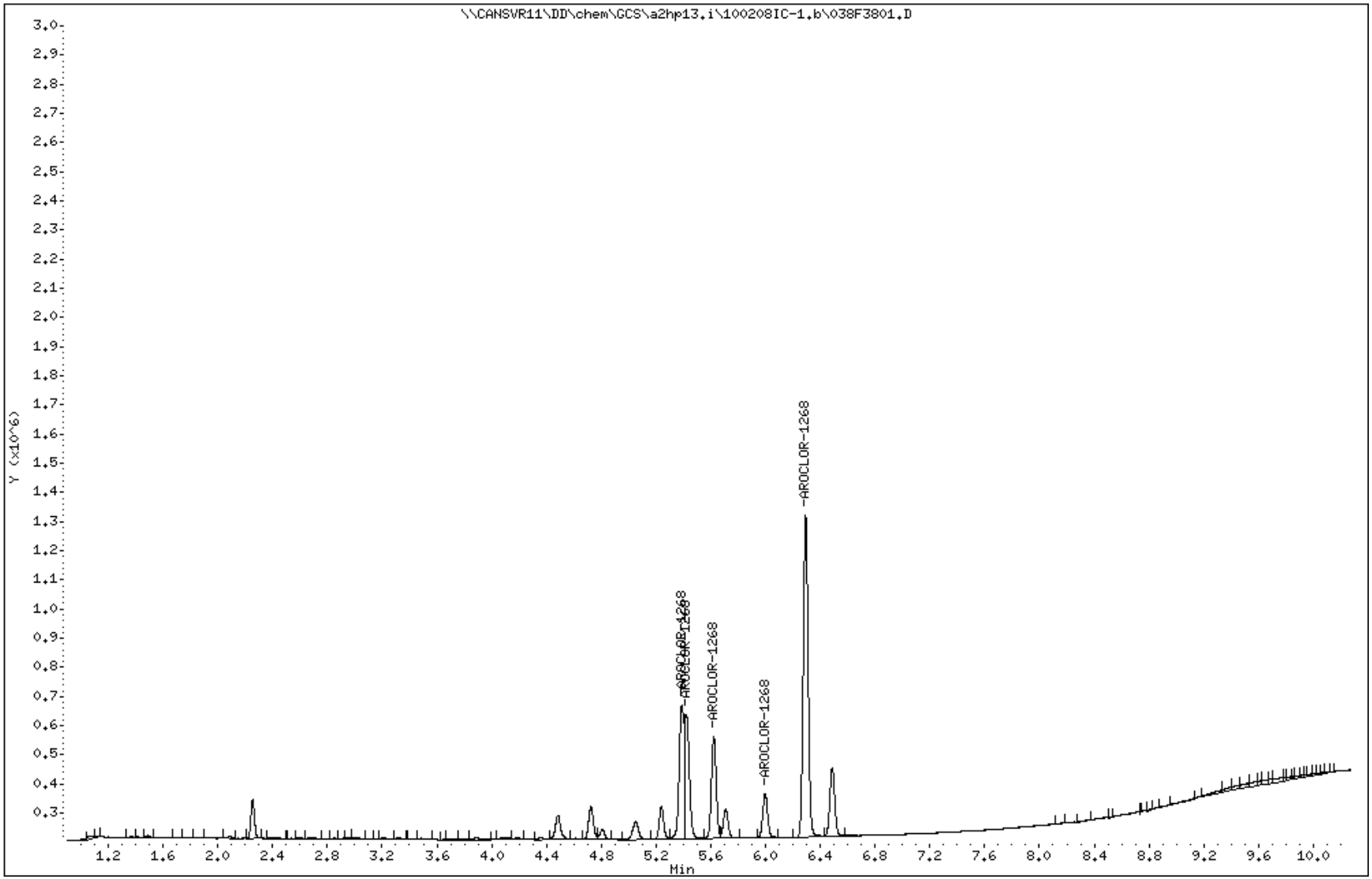
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:06
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,1
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 38 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	460589	0.05000	0.05417	80.00- 120.00	100.00
5.421	5.439	-0.018	426303	0.05000	0.05321	82.56- 137.59	92.56
5.622	5.630	-0.008	350705	0.05000	0.05334	2.72- 4.53	76.14
5.997	6.005	-0.008	151530	0.05000	0.05363	84.36- 140.61	32.90
6.293	6.302	-0.009	1101678	0.05000	0.05482	17.26- 28.76	239.19
		Average of Peak Amounts =			0.05383		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Date : 09-FEB-2010 01:06
Client ID:
Sample Info: 1268,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

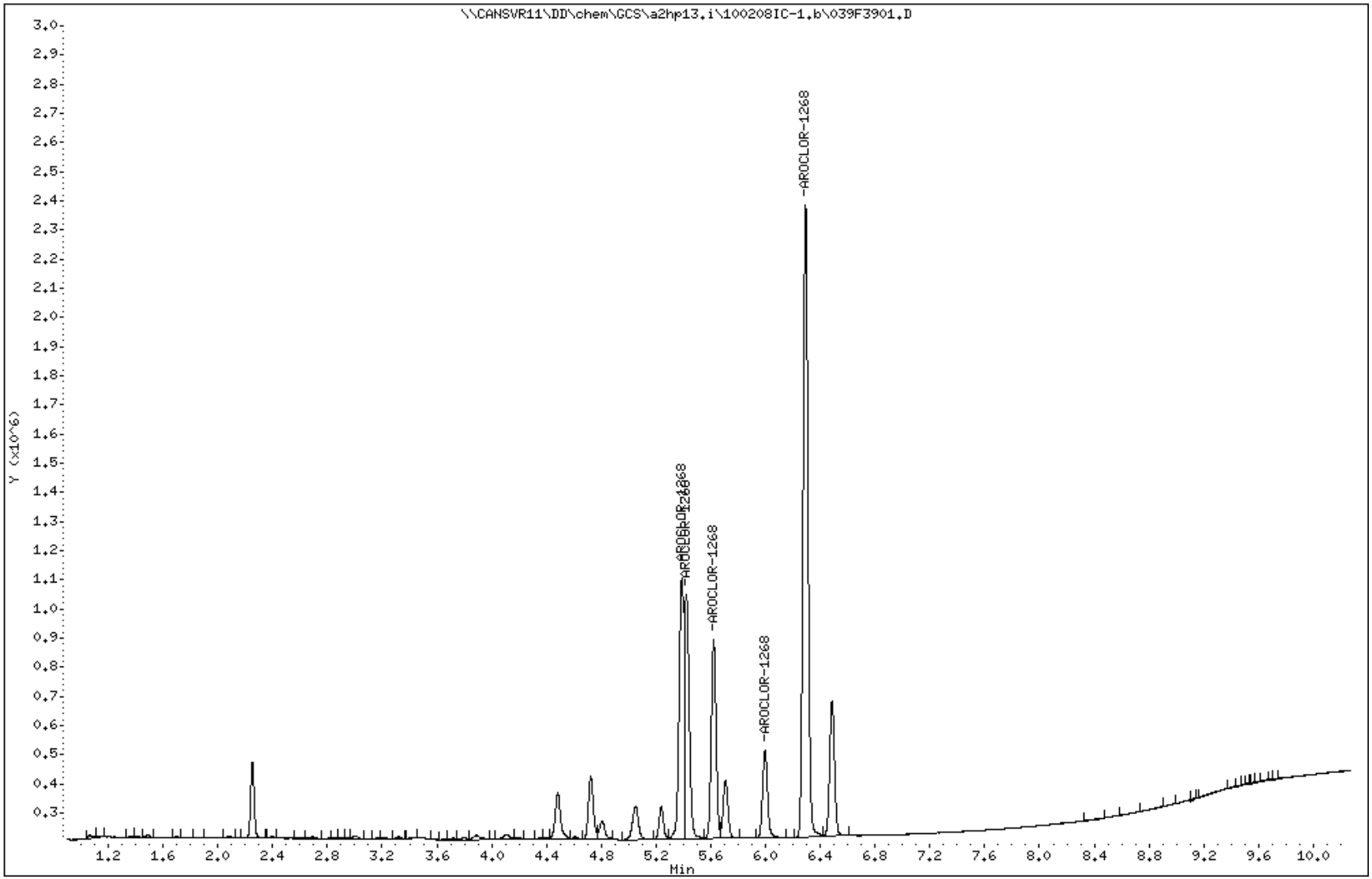
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:21
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,2
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 39 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.387	5.397	-0.010	893898	0.10000	0.1051	80.00- 120.00	100.00
5.421	5.439	-0.018	838830	0.10000	0.1047	82.56- 137.59	93.84
5.620	5.630	-0.010	681804	0.10000	0.1037	2.72- 4.53	76.27
5.996	6.005	-0.009	300089	0.10000	0.1062	84.36- 140.61	33.57
6.291	6.302	-0.011	2170108	0.10000	0.1080	17.26- 28.76	242.77
		Average of Peak Amounts =			0.10554		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Date : 09-FEB-2010 01:21
Client ID:
Sample Info: 1268,,1,2

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

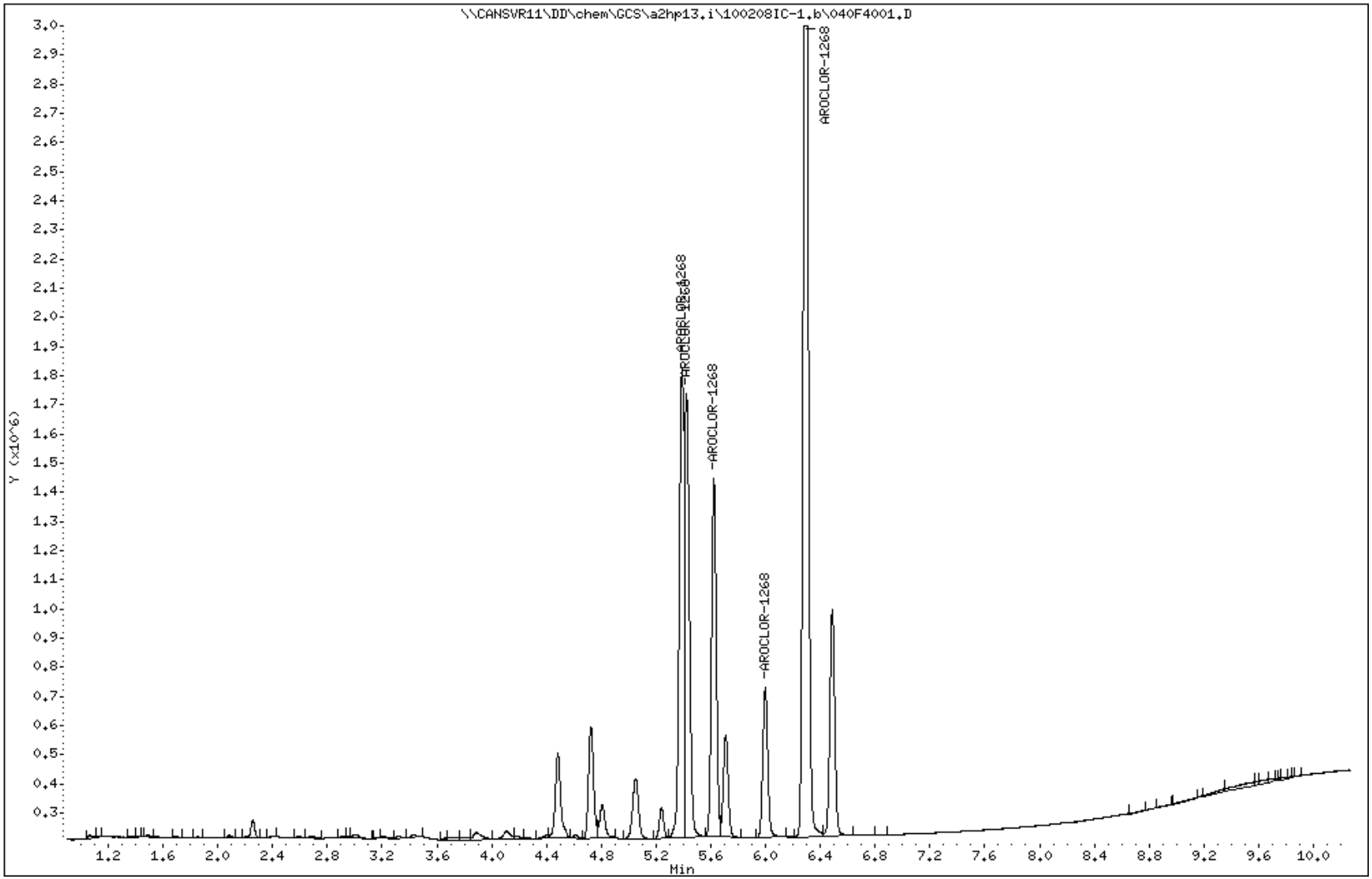
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:37
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,3
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 40 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	1604518	0.20000	0.1887	80.00- 120.00	100.00
5.422	5.439	-0.017	1519826	0.20000	0.1897	82.56- 137.59	94.72
5.621	5.630	-0.009	1230544	0.20000	0.1872	2.72- 4.53	76.69
5.997	6.005	-0.008	515194	0.20000	0.1823	84.36- 140.61	32.11
6.292	6.302	-0.010	3754156	0.20000	0.1868	17.26- 28.76	233.97
		Average of Peak Amounts =			0.18694		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Date : 09-FEB-2010 01:37
Client ID:
Sample Info: 1268,,1,3

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

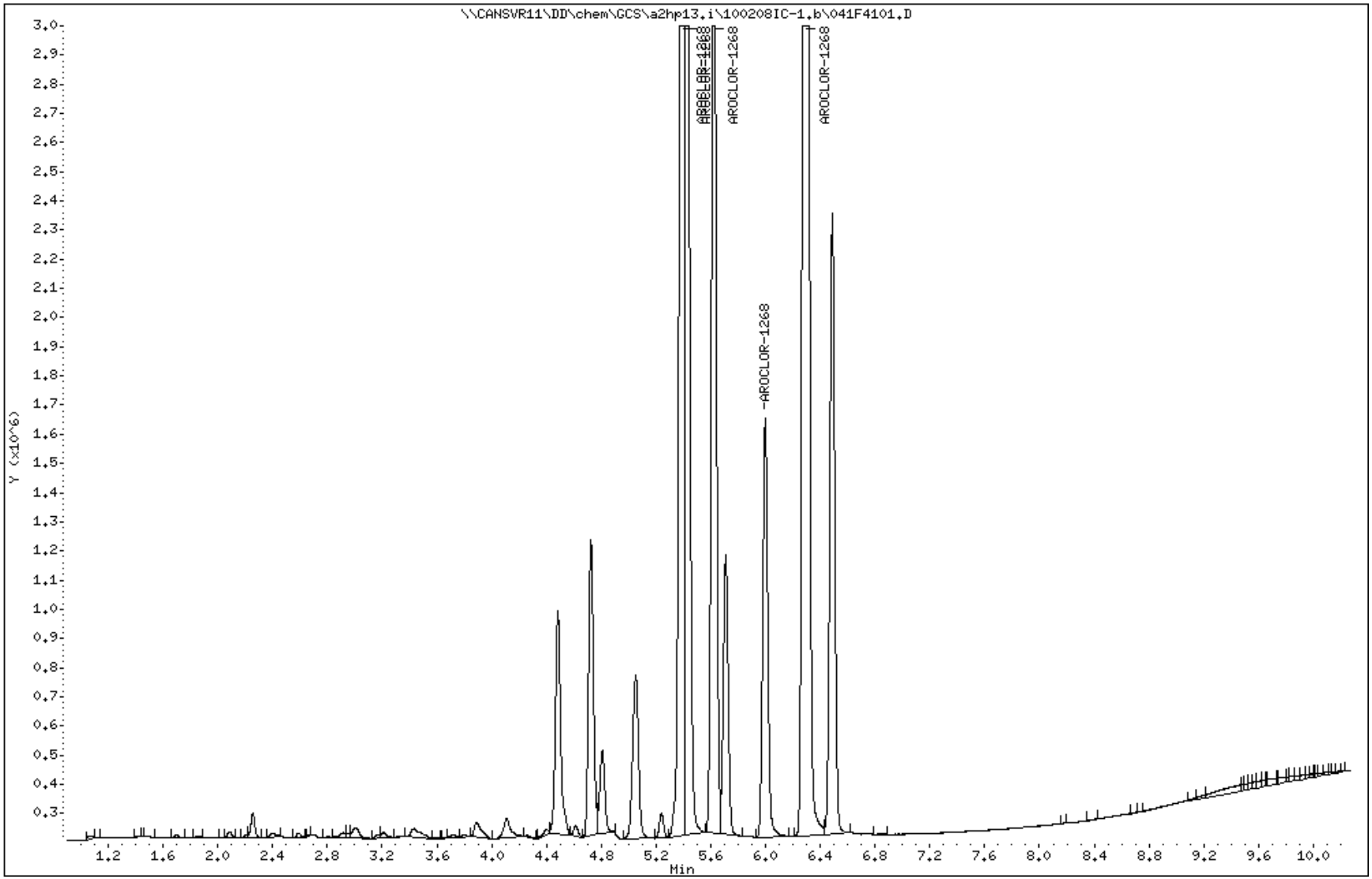
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:52
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,4
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 41 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.389	5.397	-0.008	4361223	0.50000	0.5129	80.00- 120.00	100.00
5.421	5.439	-0.018	4134029	0.50000	0.5160	82.56- 137.59	94.79
5.621	5.630	-0.009	3394525	0.50000	0.5163	2.72- 4.53	77.83
5.996	6.005	-0.009	1433306	0.50000	0.5073	84.36- 140.61	32.86
6.293	6.302	-0.009	10152678	0.50000	0.5052	17.26- 28.76	232.79
		Average of Peak Amounts =			0.51154		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Date : 09-FEB-2010 01:52
Client ID:
Sample Info: 1268,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

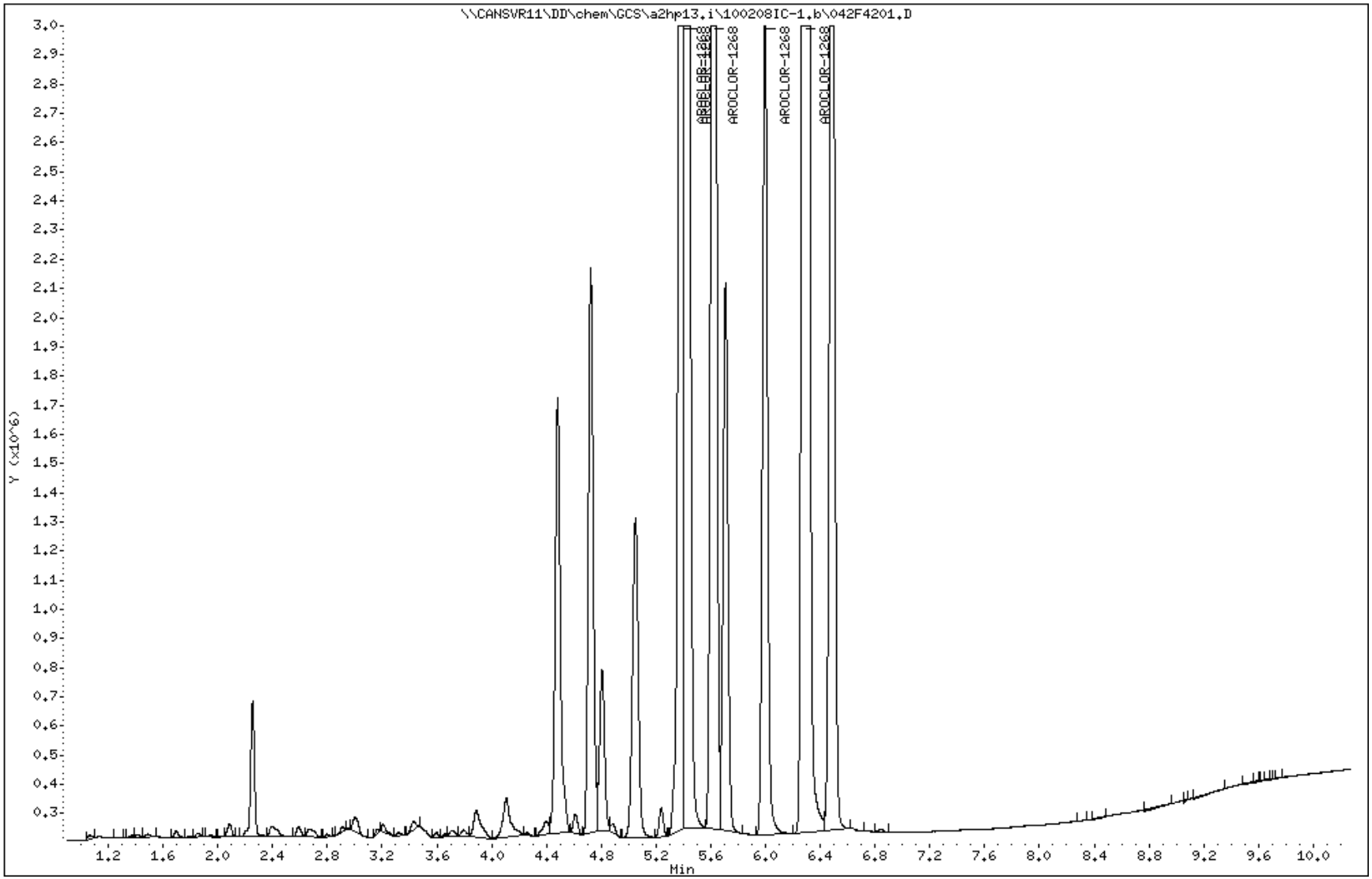
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 02:07
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,5
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 42 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	8455422	1.00000	0.9945	80.00- 120.00	100.00
5.421	5.439	-0.018	8025460	1.00000	1.002	82.56- 137.59	94.91
5.620	5.630	-0.010	6622531	1.00000	1.007	2.72- 4.53	78.32
5.995	6.005	-0.010	2907263	1.00000	1.029	84.36- 140.61	34.38
6.291	6.302	-0.011	20048105	1.00000	0.9977	17.26- 28.76	237.10
		Average of Peak Amounts =			1.00604		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Date : 09-FEB-2010 02:07
Client ID:
Sample Info: 1268,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

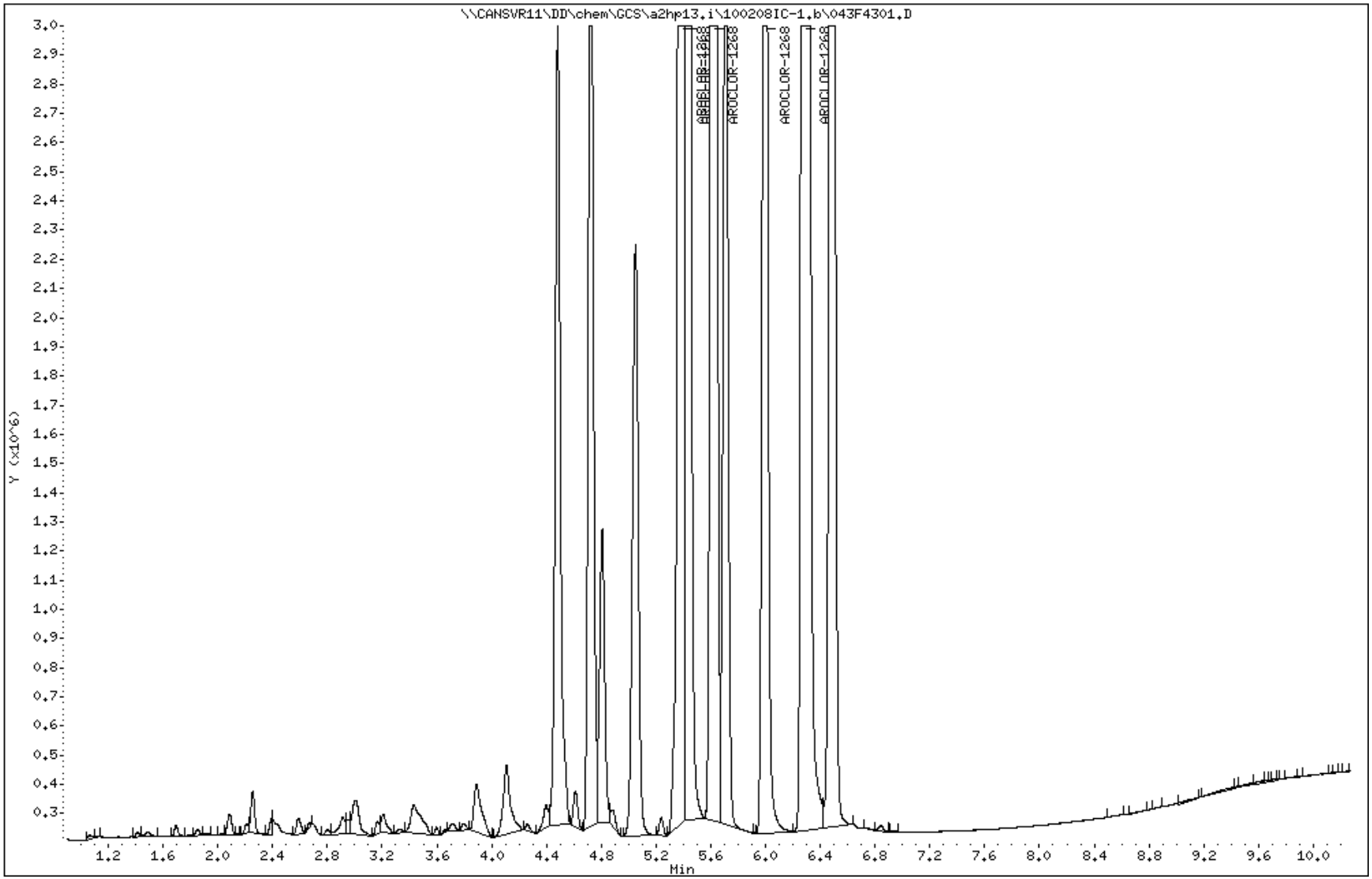
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 02:22
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,6
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 43 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	15327765	2.00000	1.803	80.00- 120.00	100.00
5.422	5.439	-0.017	14527923	2.00000	1.813	82.56- 137.59	94.78
5.620	5.630	-0.010	12097268	2.00000	1.840	2.72- 4.53	78.92
5.996	6.005	-0.009	5143258	2.00000	1.820	84.36- 140.61	33.56
6.292	6.302	-0.010	35423594	2.00000	1.763	17.26- 28.76	231.11
		Average of Peak Amounts =			1.80780		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
Date : 09-FEB-2010 02:22
Client ID:
Sample Info: 1268,,1,6

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Report Date: 09-Feb-2010 09:33

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 09-FEB-2010 08:14
Lab File ID: 046F0101.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: 1CV Quant Type: ESTD
Method: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF1	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 AROCLOR-1016(1)	3556491	3431818	0.010	3.50549	15.00000	Averaged
(2)	6154428	5423225	0.010	11.88093	15.00000	Averaged
(3)	12978864	11295129	0.010	12.97290	15.00000	Averaged
(4)	5325964	4692669	0.010	11.89071	15.00000	Averaged
(5)	5303493	4910283	0.010	7.41416	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2857020	0.010	5.34443	15.00000	Averaged
(2)	4226485	4010594	0.010	5.10806	15.00000	Averaged
(3)	3850847	3675256	0.010	4.55980	15.00000	Averaged
(4)	5757318	5880421	0.010	-2.13821	15.00000	Averaged
(5)	3066451	3179542	0.010	-3.68803	15.00000	Averaged

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Report Date: 09-Feb-2010 09:33

TestAmerica North Canton

PCB 8082/608

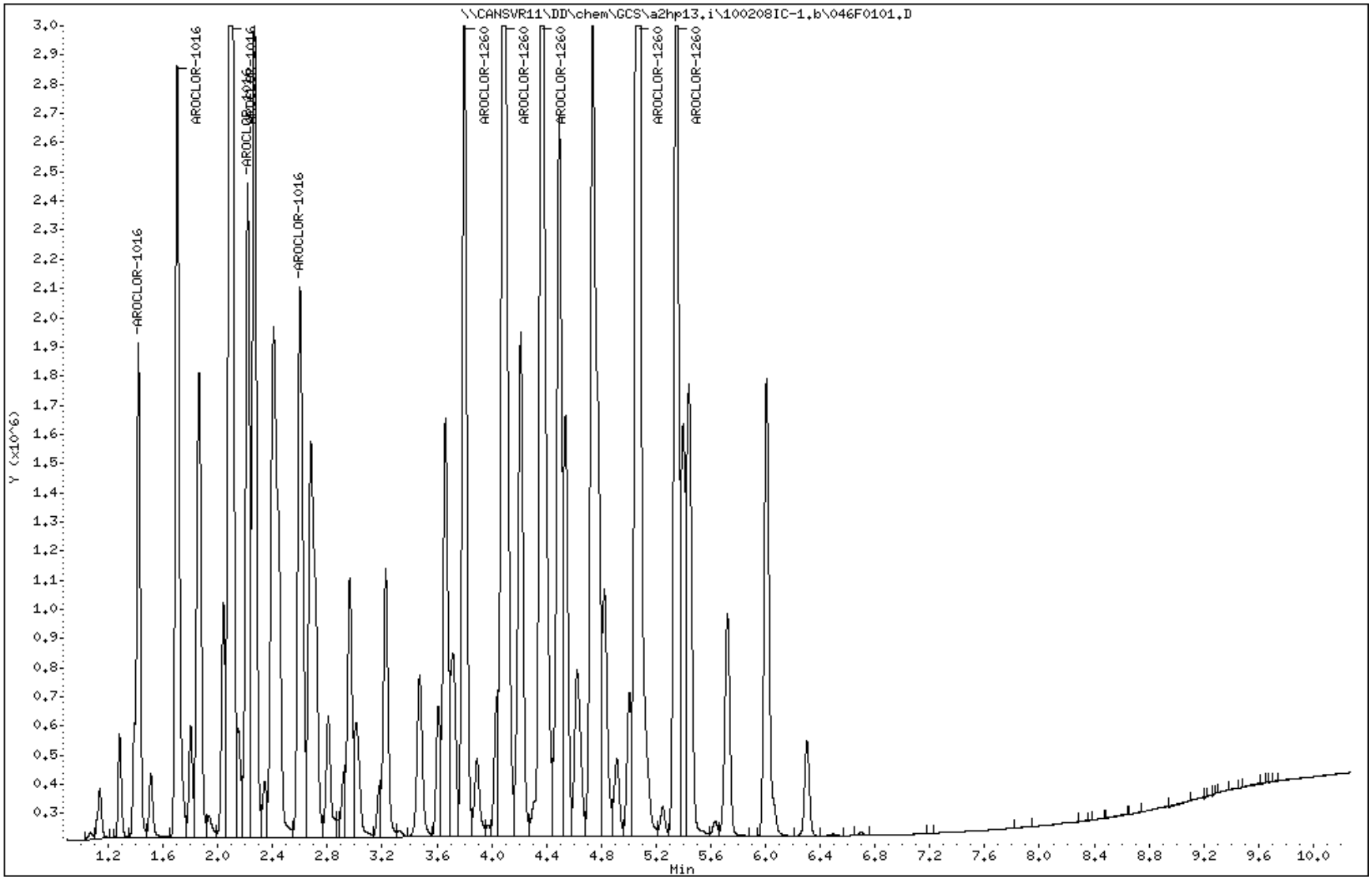
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Lab Smp Id: 1CV
Inj Date : 09-FEB-2010 08:14
Operator : Inst ID: a2hp13.i
Smp Info : 1CV,,2
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 09:33 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 46 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
3 AROCLOR-1016					CAS #: 12674-11-2		
1.420	1.420	0.000	3431818	1.00000	0.9649	80.00- 120.00	100.00
1.702	1.702	0.000	5423225	1.00000	0.8812	118.52- 197.53	158.03
2.096	2.096	0.000	11295129	1.00000	0.8703	246.85- 411.41	329.13
2.217	2.217	0.000	4692669	1.00000	0.8811	102.56- 170.93	136.74
2.599	2.599	0.000	4910283	1.00000	0.9258	107.31- 178.85	143.08
Average of Peak Amounts =					0.90466		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.801	3.801	0.000	2857020	1.00000	0.9466	80.00- 120.00	100.00
4.089	4.089	0.000	4010594	1.00000	0.9489	105.28- 175.47	140.38
4.366	4.366	0.000	3675256	1.00000	0.9544	96.48- 160.80	128.64
5.066	5.066	0.000	5880421	1.00000	1.021	154.37- 257.28	205.82
5.347	5.347	0.000	3179542	1.00000	1.037	83.47- 139.11	111.29
Average of Peak Amounts =					0.98158		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Date : 09-FEB-2010 08:14
Client ID:
Sample Info: 1CV,,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250453

GC Column: RESTEK PEST CLPI ID: 0.53 (mm) Init. Calib. Date(s): 02/08/10 02/09/10

Instrument ID: A2HP13

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 1.16 S2 : 6.52

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		1660	03/02/10	0855	1.16	6.51
02		MRL	03/02/10	0910		
03	ATASB-008-51	LV3JM1AF	03/02/10	1323	1.16	6.52
04	LV4JQBLK	LV4JQ1AA	03/02/10	1338	1.16	6.52
05	LV4JQCHK	LV4JQ1AC	03/02/10	1353	1.16	6.52
06		E009	03/02/10	1408	1.16	6.52
07		MRL	03/02/10	1921		
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
S1 = TCMX (+/- 0.10 MINUTES)
S2 = DCB (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 08-Mar-2010 13:11

Calibration History

Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\PCB13.m
Start Cal Date: 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
09-FEB-2010 01:06	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
08-FEB-2010 23:37	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
08-FEB-2010 22:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
08-FEB-2010 20:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
08-FEB-2010 19:06	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
08-FEB-2010 17:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
08-FEB-2010 16:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Cal Level: 2 , Cal Amount: 0.10000		
09-FEB-2010 01:21	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
08-FEB-2010 23:52	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
08-FEB-2010 22:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
08-FEB-2010 20:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
08-FEB-2010 19:21	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
08-FEB-2010 17:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
08-FEB-2010 16:21	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Cal Level: 3 , Cal Amount: 0.20000		
09-FEB-2010 01:37	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
09-FEB-2010 00:06	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
08-FEB-2010 22:36	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
08-FEB-2010 21:07	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
08-FEB-2010 19:36	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D

08-FEB-2010 18:06	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
08-FEB-2010 16:36	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D

Cal Level: 4 , Cal Amount: 0.50000		
09-FEB-2010 01:52	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
09-FEB-2010 00:21	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
08-FEB-2010 22:52	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
08-FEB-2010 21:21	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
08-FEB-2010 19:51	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
08-FEB-2010 18:22	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
08-FEB-2010 16:51	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D

Cal Level: 5 , Cal Amount: 1.00000		
09-FEB-2010 02:07	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
09-FEB-2010 00:36	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
08-FEB-2010 23:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
08-FEB-2010 21:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
08-FEB-2010 20:07	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
08-FEB-2010 18:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
08-FEB-2010 17:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D

Cal Level: 6 , Cal Amount: 2.00000		
09-FEB-2010 02:22	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
09-FEB-2010 00:51	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
08-FEB-2010 23:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
08-FEB-2010 21:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
08-FEB-2010 20:22	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
08-FEB-2010 18:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
08-FEB-2010 17:22	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\002F0201.D
Report Date: 03-Mar-2010 08:39

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 02-MAR-2010 08:55
Lab File ID: 002F0201.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: 1660 Quant Type: ESTD
Method: \\CANSVR11\dd\chem\GCS\a2hp13.i\100302-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 TCMX	124233510	113888320	0.010	8.32721	15.00000	Averaged
3 AROCLOR-1016(1)	3556491	3316858	0.010	6.73789	15.00000	Averaged
(2)	6154428	5767812	0.010	6.28192	15.00000	Averaged
(3)	12978864	12482382	0.010	3.82531	15.00000	Averaged
(4)	5325964	5065898	0.010	4.88298	15.00000	Averaged
(5)	5303493	4981204	0.010	6.07691	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2773148	0.010	8.12318	15.00000	Averaged
(2)	4226485	3880866	0.010	8.17746	15.00000	Averaged
(3)	3850847	3539420	0.010	8.08723	15.00000	Averaged
(4)	5757318	5524986	0.010	4.03541	15.00000	Averaged
(5)	3066451	2909316	0.010	5.12431	15.00000	Averaged
$ 9 DCB	55471757	58209120	0.010	-4.93470	15.00000	Averaged

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\002F0201.D
Report Date: 03-Mar-2010 08:39

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\002F0201.D
Lab Smp Id: 1660
Inj Date : 02-MAR-2010 08:55
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,2 E009
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100302-1.b\PCB13.m
Meth Date : 02-Mar-2010 19:16 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

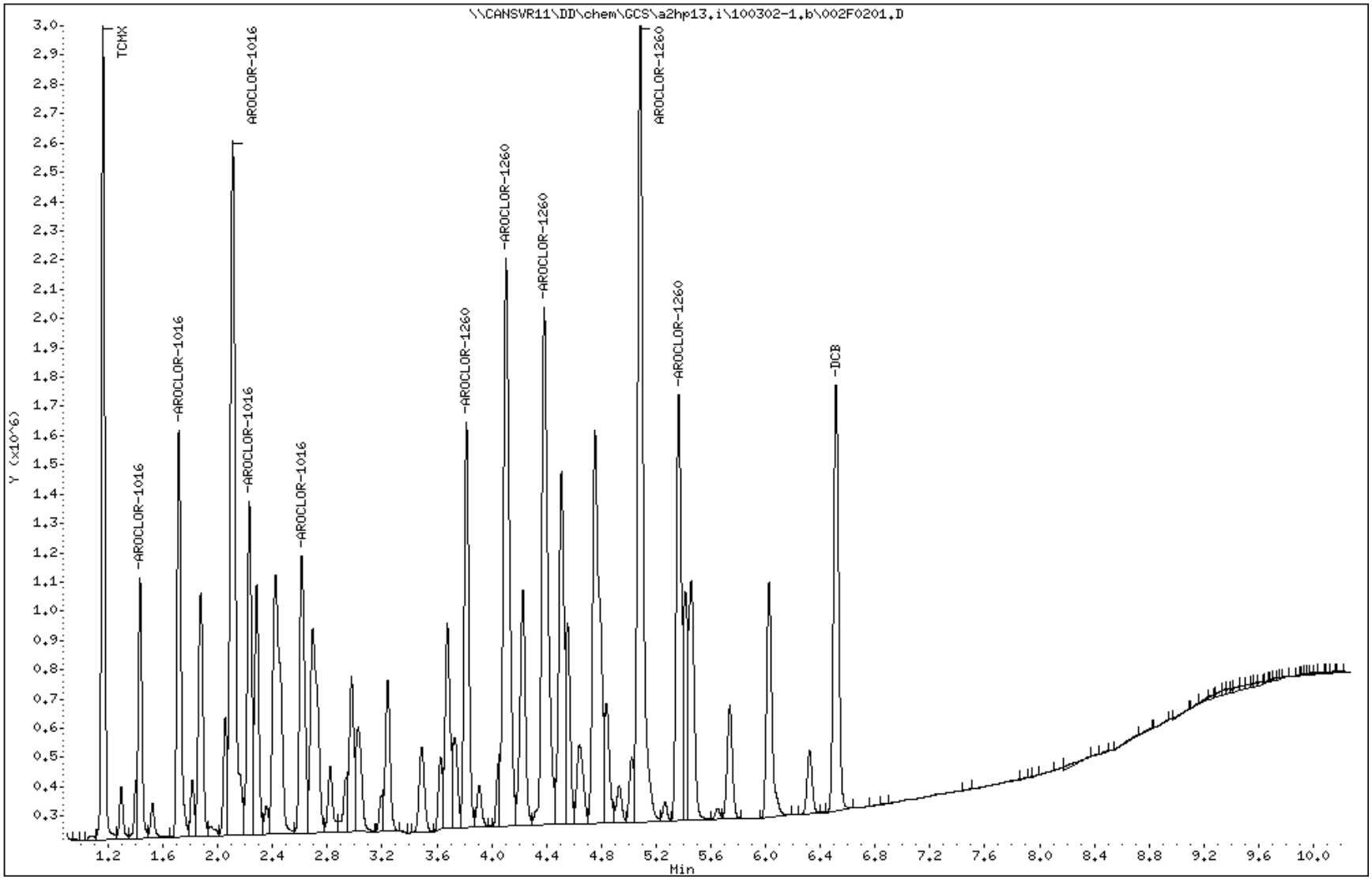
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.161	1.161	0.000	2847208	0.02500	0.02292		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.432	1.432	0.000	1658429	0.50000	0.4663	80.00- 120.00	100.00(M)
1.715	1.715	0.000	2883906	0.50000	0.4686	130.42- 217.37	173.89
2.109	2.109	0.000	6241191	0.50000	0.4809	282.25- 470.41	376.33
2.230	2.230	0.000	2532949	0.50000	0.4756	114.55- 190.91	152.73
2.612	2.612	0.000	2490602	0.50000	0.4696	112.63- 187.72	150.18
Average of Peak Amounts =					0.47220		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.816	3.816	0.000	1386574	0.50000	0.4594	80.00- 120.00	100.00
4.105	4.105	0.000	1940433	0.50000	0.4591	104.96- 174.93	139.94
4.383	4.383	0.000	1769710	0.50000	0.4596	95.72- 159.54	127.63
5.084	5.084	0.000	2762493	0.50000	0.4798	149.42- 249.04	199.23
5.366	5.366	0.000	1454658	0.50000	0.4744	78.68- 131.14	104.91
Average of Peak Amounts =					0.46646		
$ 9 DCB					CAS #: 2051-24-3		
6.513	6.513	0.000	1455228	0.02500	0.02623		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\002F0201.D
Date : 02-MAR-2010 08:55
Client ID:
Sample Info: 1660,,2 E009
Column phase: restek pest clpI

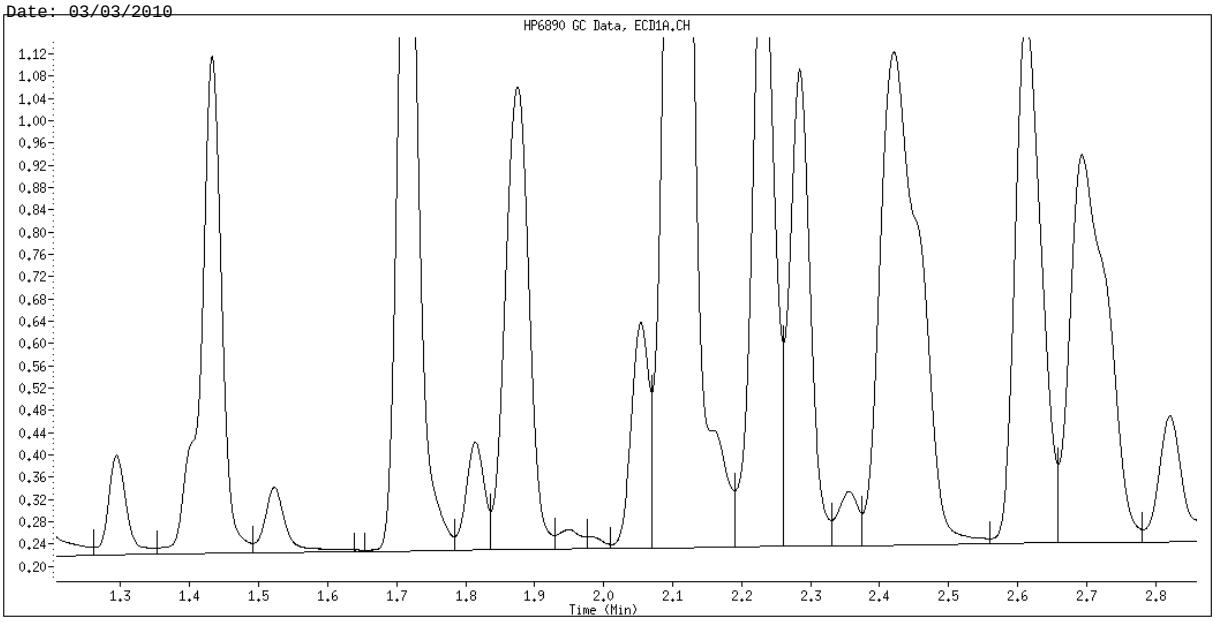
Instrument: a2hp13.i
Operator:
Column diameter: 0.53



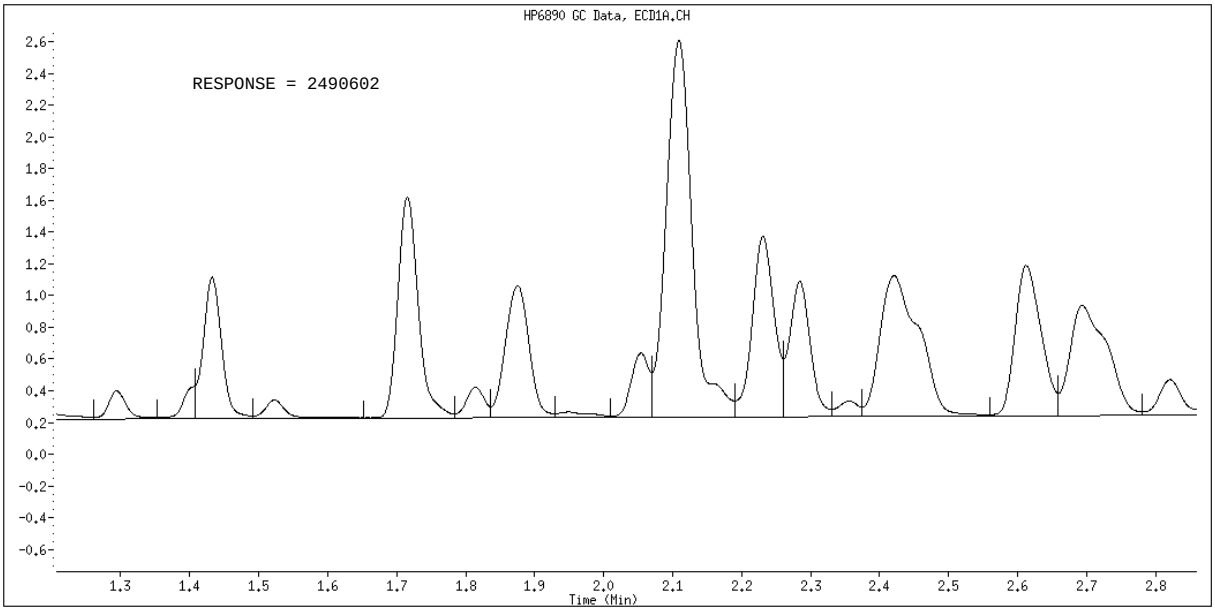
1140

North Canton

Data File Name: 002F0201.D
Inj. Date and Time: 02-MAR-2010 08:55
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\003F0301.D
Report Date: 03-Mar-2010 08:43

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa02149
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MRL
Level: LOW Operator:
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: 6-AR1660.sub
Method File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\PCB13.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
3 AROCLOR-1016	0.05000	0.05103	102.07	70-130
8 AROCLOR-1260	0.05000	0.04995	99.90	70-130

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\003F0301.D
Report Date: 03-Mar-2010 08:43

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\003F0301.D
Lab Smp Id: MRL
Inj Date : 02-MAR-2010 09:10
Operator : Inst ID: a2hp13.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\PCB13.m
Meth Date : 02-Mar-2010 19:16 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 3 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

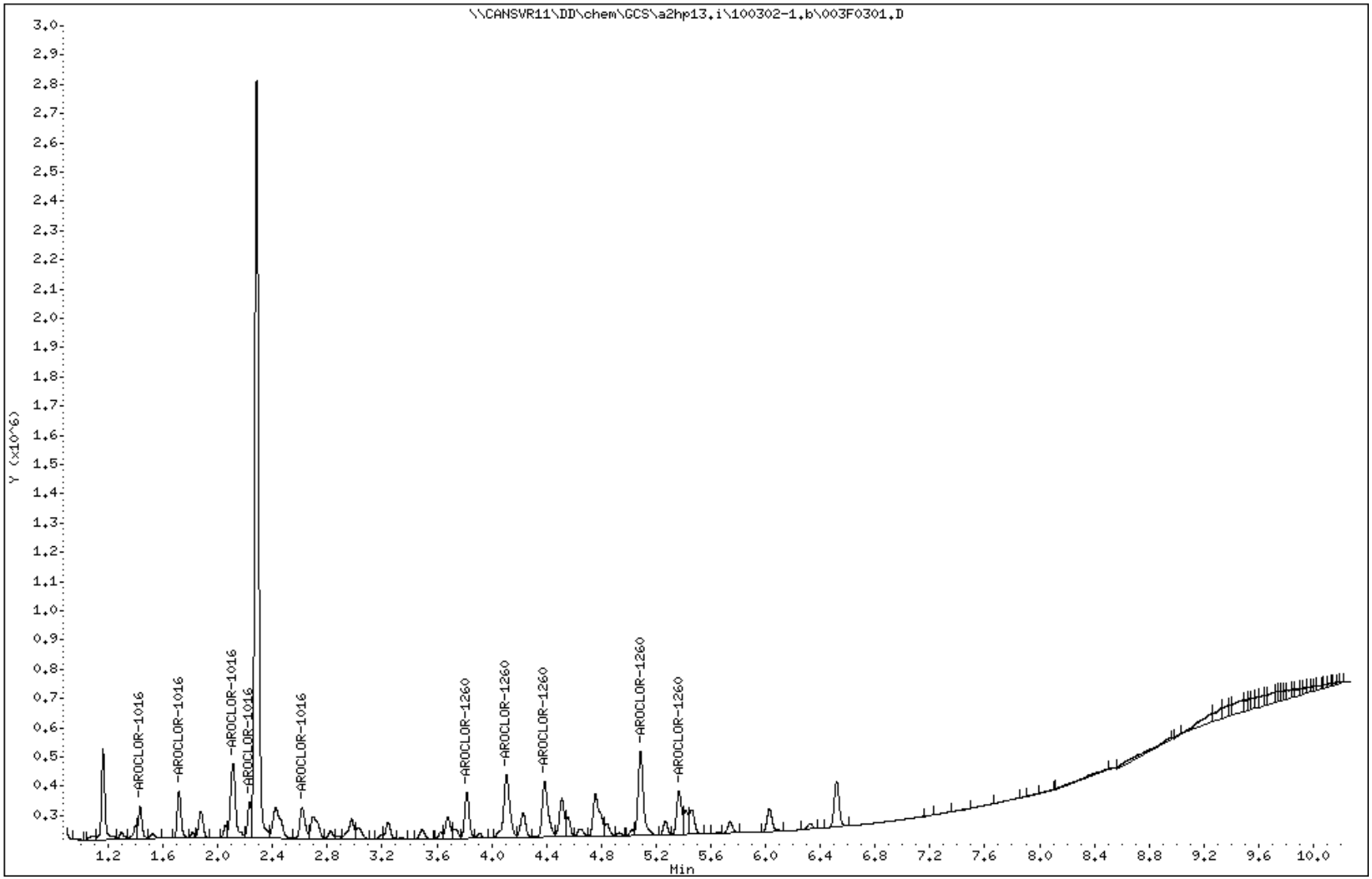
Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	final volume
Vo	1000.000	intitial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
3 AROCLOR-1016					CAS #: 12674-11-2		
1.432	1.433	-0.001	202475	0.05693	0.05693	80.00- 120.00	100.00(M)
1.716	1.717	-0.001	321192	0.05219	0.05219	135.61- 226.02	158.63
2.109	2.112	-0.003	670725	0.05168	0.05168	305.79- 509.65	331.26
2.232	2.233	-0.001	221015	0.04150	0.04150	123.73- 206.21	109.16
2.615	2.617	-0.002	280380	0.05287	0.05287	121.85- 203.09	138.48
		Average of Peak Concentrations =		0.05103			
8 AROCLOR-1260					CAS #: 11096-82-5		
3.818	3.821	-0.003	155577	0.05154	0.05154	80.00- 120.00	100.00
4.107	4.111	-0.004	213993	0.05063	0.05063	104.74- 174.56	137.55
4.386	4.388	-0.002	188533	0.04896	0.04896	95.39- 158.99	121.18
5.086	5.090	-0.004	286765	0.04981	0.04981	144.18- 240.30	184.32
5.368	5.371	-0.003	149627	0.04879	0.04879	72.95- 121.58	96.18
		Average of Peak Concentrations =		0.04995			

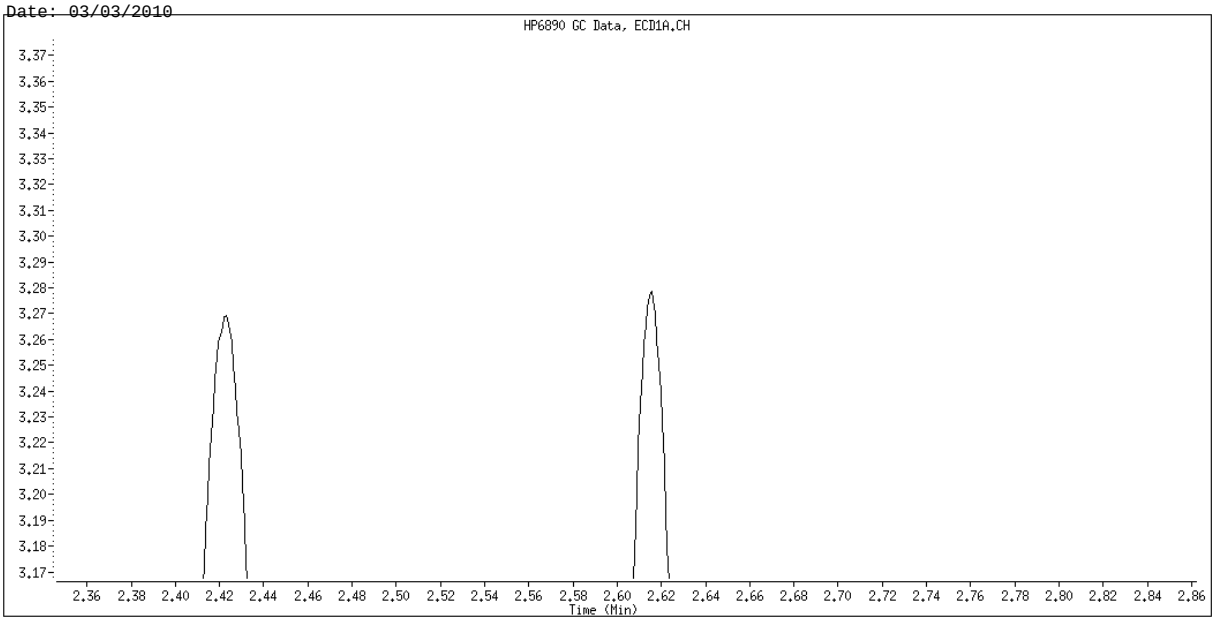
QC Flag Legend

M - Compound response manually integrated.

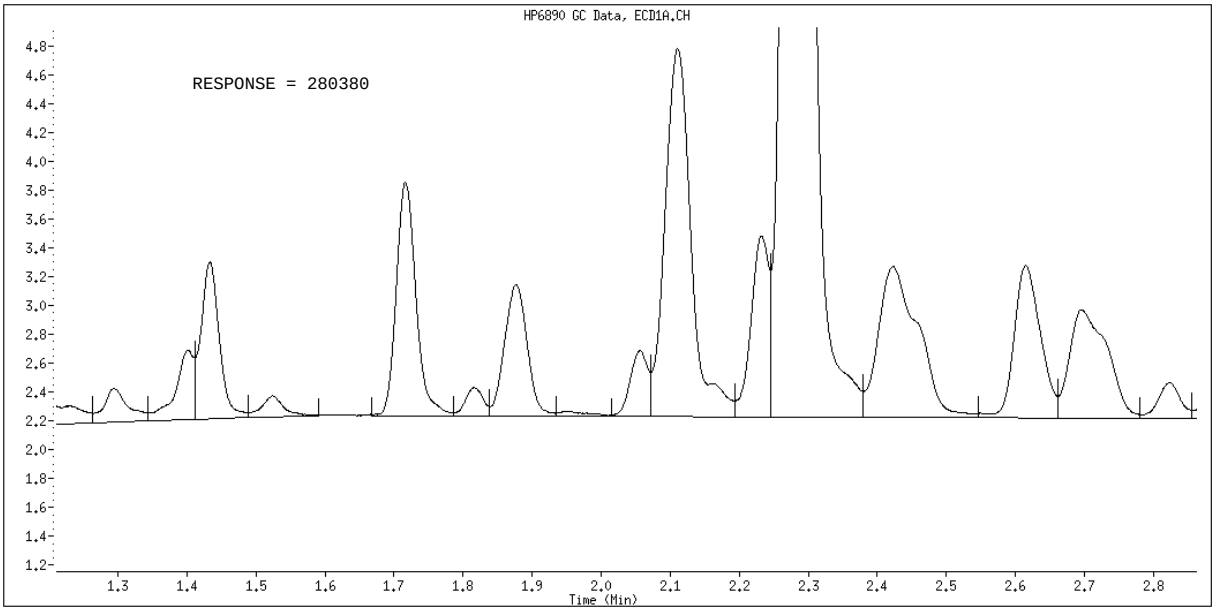
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\003F0301.D
Date : 02-MAR-2010 09:10
Client ID:
Instrument: a2hp13.i
Sample Info: MRL
Purge Volume: 1000.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 003F0301.D
Inj. Date and Time: 02-MAR-2010 09:10
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\CANSVR11\dd\chem\GCS\a2hp13.i\100302-1.b\013F1301.D
Report Date: 02-Mar-2010 14:19

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 02-MAR-2010 14:08
Lab File ID: 013F1301.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: E009 Quant Type: ESTD
Method: \\CANSVR11\dd\chem\GCS\a2hp13.i\100302-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 TCMX	124233510	138614040	0.010	-11.57540	15.00000	Averaged
3 AROCLOR-1016(1)	3556491	3441030	0.010	3.24647	15.00000	Averaged
(2)	6154428	6062044	0.010	1.50110	15.00000	Averaged
(3)	12978864	13379884	0.010	-3.08980	15.00000	Averaged
(4)	5325964	5438584	0.010	-2.11455	15.00000	Averaged
(5)	5303493	5364806	0.010	-1.15609	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	3017106	0.010	0.04064	15.00000	Averaged
(2)	4226485	4218578	0.010	0.18709	15.00000	Averaged
(3)	3850847	3890734	0.010	-1.03580	15.00000	Averaged
(4)	5757318	6076346	0.010	-5.54127	15.00000	Averaged
(5)	3066451	3233466	0.010	-5.44654	15.00000	Averaged
$ 9 DCB	55471757	63475240	0.010	-14.42803	15.00000	Averaged

TestAmerica North Canton

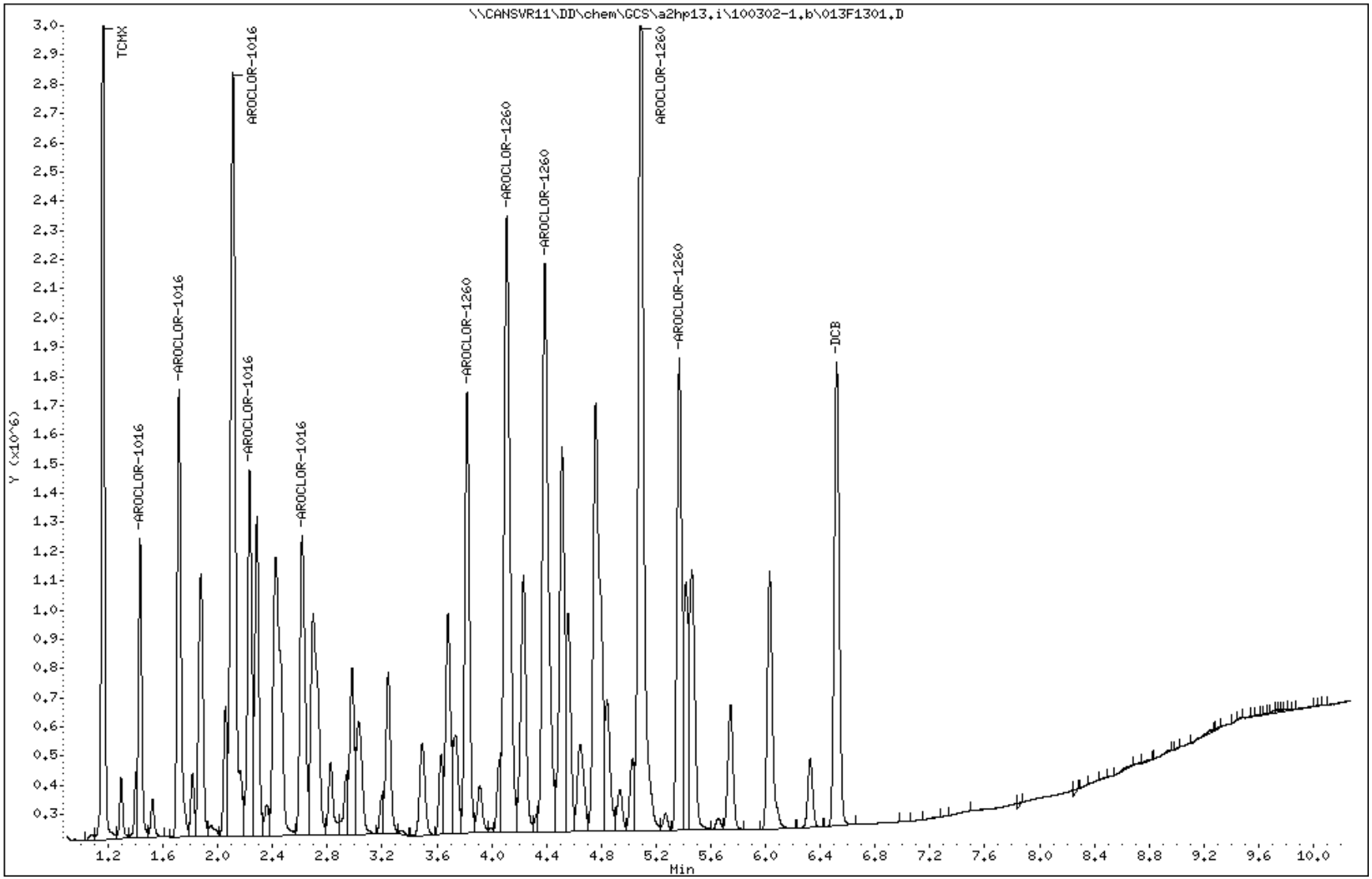
PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100302-1.b\013F1301.D
Lab Smp Id: E009
Inj Date : 02-MAR-2010 14:08
Operator : Inst ID: a2hp13.i
Smp Info : E009,,2
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100302-1.b\PCB13.m
Meth Date : 02-Mar-2010 14:18 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.161	1.161	0.000	3465351	0.02500	0.02789		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.432	1.432	0.000	1720515	0.50000	0.4838	80.00- 120.00	100.00
1.715	1.715	0.000	3031022	0.50000	0.4925	132.13- 220.21	176.17
2.111	2.111	0.000	6689942	0.50000	0.5154	291.63- 486.04	388.83
2.232	2.232	0.000	2719292	0.50000	0.5106	118.54- 197.56	158.05
2.615	2.615	0.000	2682403	0.50000	0.5058	116.93- 194.88	155.91
	Average of Peak Amounts =				0.50162		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.820	3.820	0.000	1508553	0.50000	0.4998	80.00- 120.00	100.00
4.109	4.109	0.000	2109289	0.50000	0.4991	104.87- 174.78	139.82
4.387	4.387	0.000	1945367	0.50000	0.5052	96.72- 161.19	128.96
5.087	5.087	0.000	3038173	0.50000	0.5277	151.05- 251.75	201.40
5.369	5.369	0.000	1616733	0.50000	0.5272	80.38- 133.96	107.17
	Average of Peak Amounts =				0.51180		
$ 9 DCB					CAS #: 2051-24-3		
6.518	6.518	0.000	1586881	0.02500	0.02861		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\013F1301.D
Date : 02-MAR-2010 14:08
Client ID:
Sample Info: E009,,2

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\034F3401.D
Report Date: 03-Mar-2010 08:43

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa02149
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MRL
Level: LOW Operator:
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: 6-AR1660.sub
Method File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\PCB13.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
3 AROCLOR-1016	0.05000	0.05216	104.32	70-130
8 AROCLOR-1260	0.05000	0.04588	91.77	70-130

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\034F3401.D
Report Date: 03-Mar-2010 08:43

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\034F3401.D
Lab Smp Id: MRL
Inj Date : 02-MAR-2010 19:21
Operator : Inst ID: a2hp13.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\PCB13.m
Meth Date : 02-Mar-2010 19:16 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 34 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

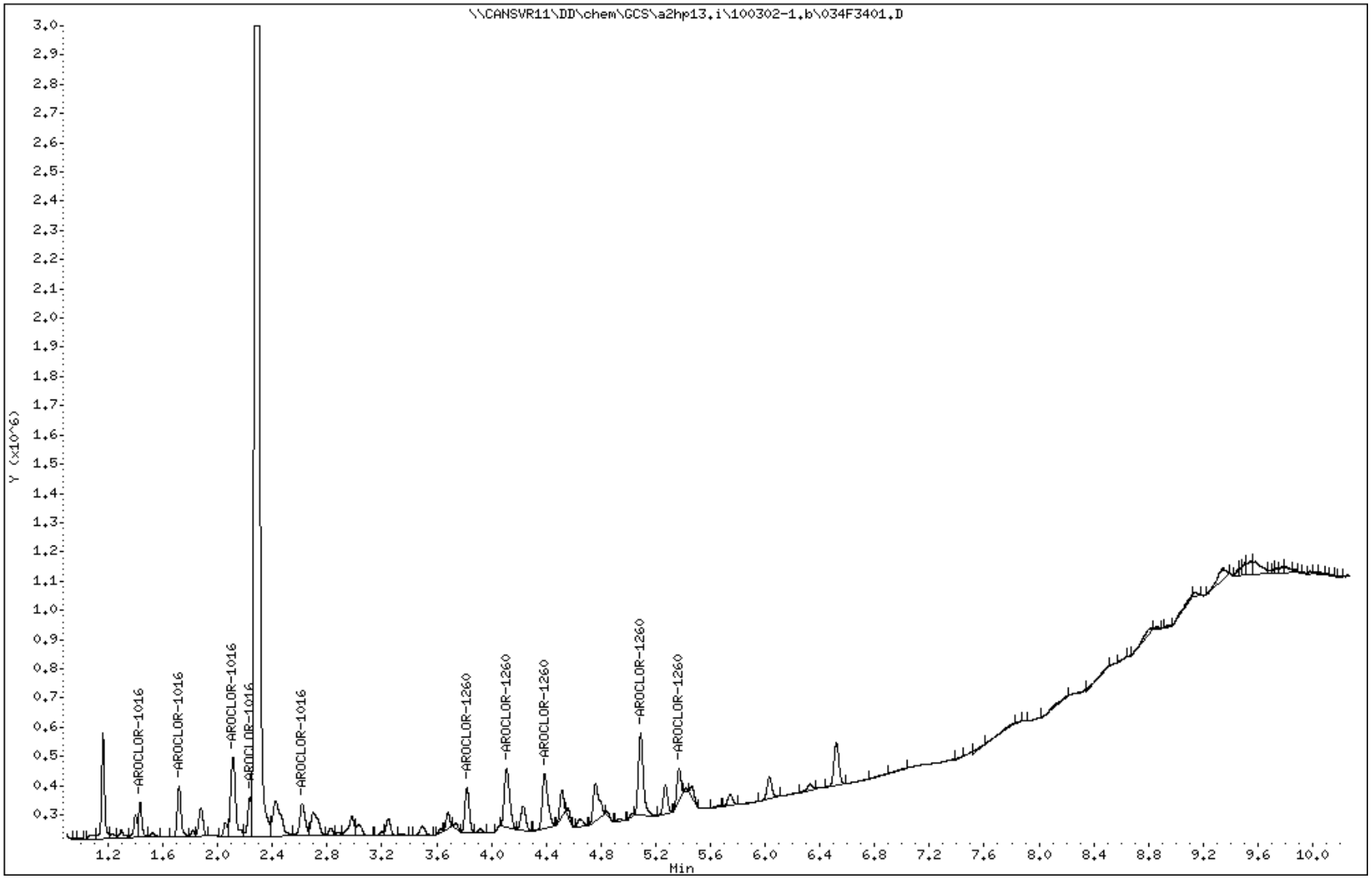
Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	final volume
Vo	1000.000	intitial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
3 AROCLOR-1016					CAS #: 12674-11-2		
1.432	1.433	-0.001	199695	0.05615	0.05615	80.00- 120.00	100.00(M)
1.716	1.717	-0.001	326004	0.05297	0.05297	135.61- 226.02	163.25
2.111	2.112	-0.001	690497	0.05320	0.05320	305.79- 509.65	345.77
2.234	2.233	0.001	211216	0.03966	0.03966	123.73- 206.21	105.77
2.616	2.617	-0.001	311954	0.05882	0.05882	121.85- 203.09	156.21
		Average of Peak Concentrations =		0.05216			
8 AROCLOR-1260					CAS #: 11096-82-5		
3.821	3.821	0.000	152529	0.05053	0.05053	80.00- 120.00	100.00(M)
4.111	4.111	0.000	200955	0.04755	0.04755	104.74- 174.56	131.75
4.389	4.388	0.001	185092	0.04807	0.04806	95.39- 158.99	121.35
5.089	5.090	-0.001	278482	0.04837	0.04837	144.18- 240.30	182.58
5.371	5.371	0.000	107047	0.03491	0.03491	72.95- 121.58	70.18
		Average of Peak Concentrations =		0.04588			

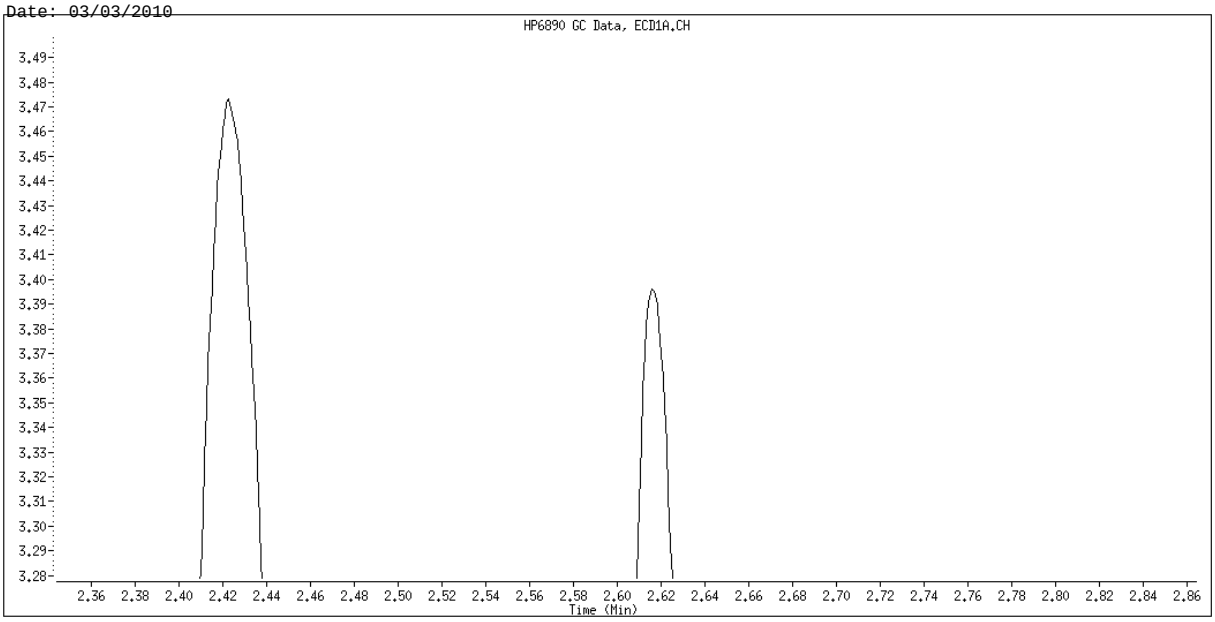
QC Flag Legend

M - Compound response manually integrated.

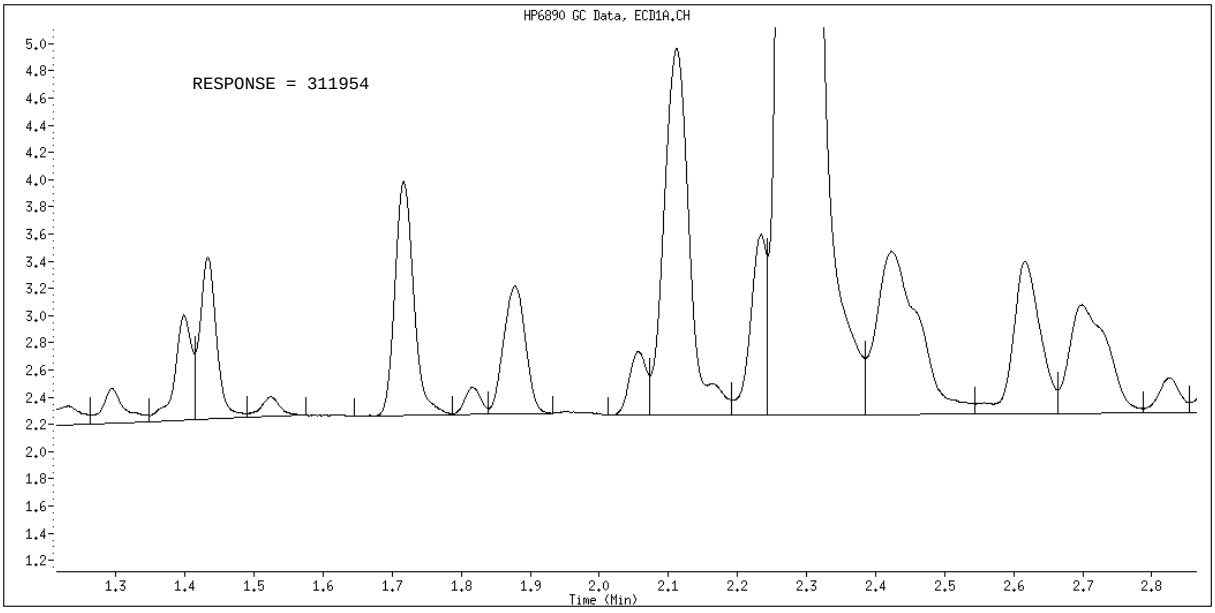
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\034F3401.D
Date : 02-MAR-2010 19:21
Client ID:
Instrument: a2hp13.i
Sample Info: MRL
Purge Volume: 1000.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 034F3401.D
Inj. Date and Time: 02-MAR-2010 19:21
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/03/2010



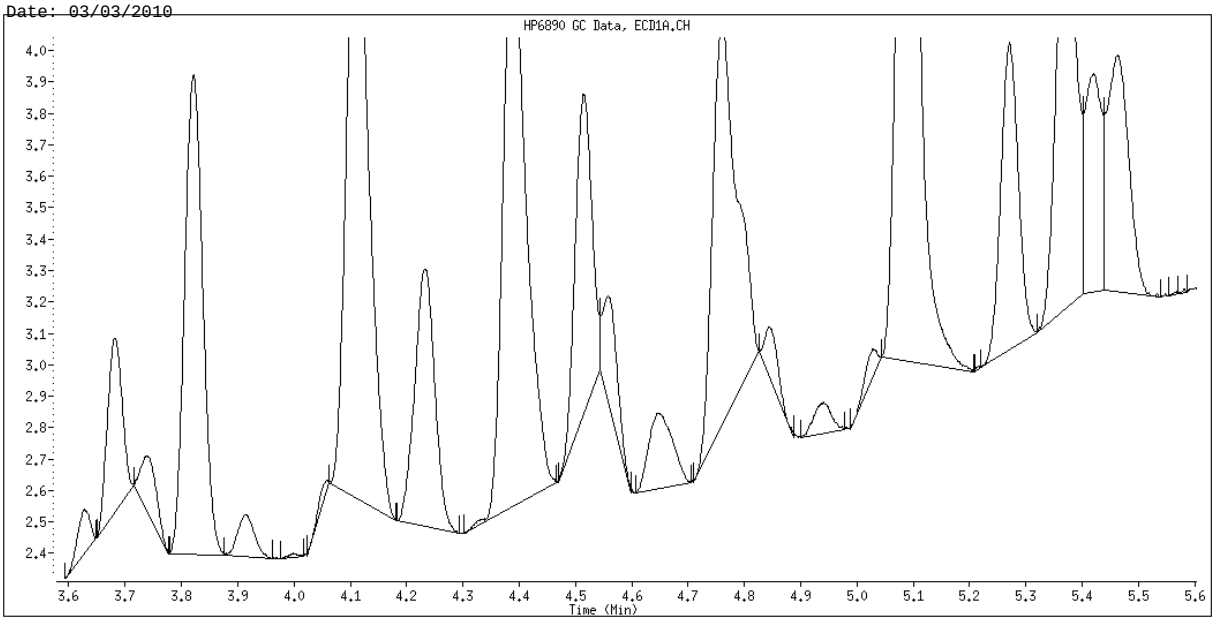
Original Integration



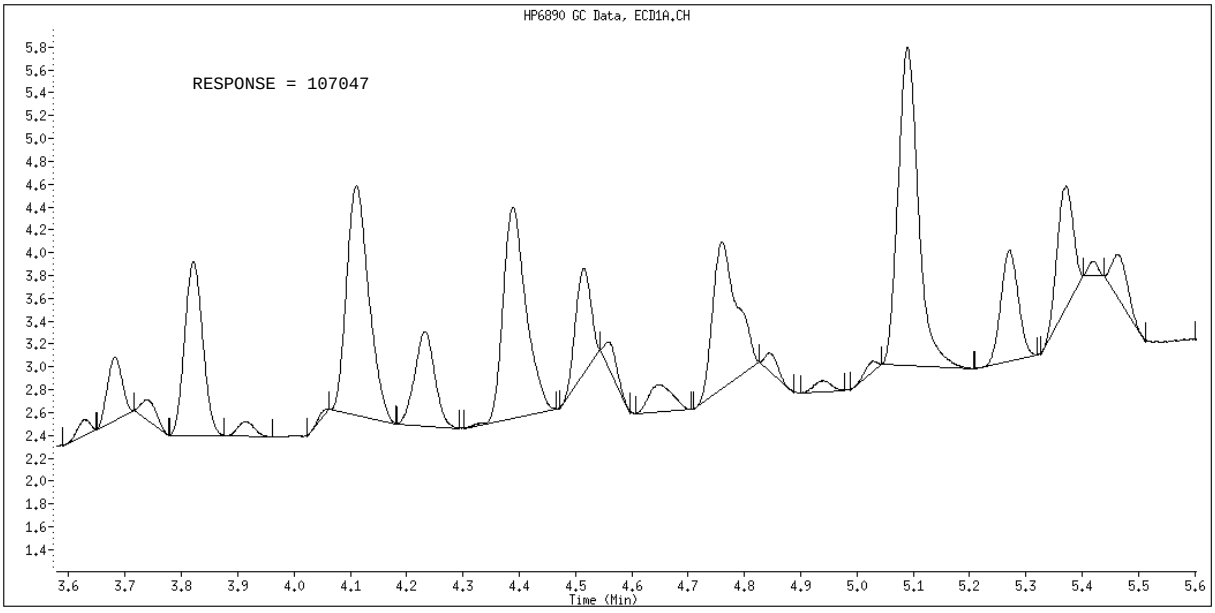
Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File Name: 034F3401.D
Inj. Date and Time: 02-MAR-2010 19:21
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1260
CAS #: 11096-82-5
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\046F4601.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\046F4601.D
Lab Smp Id: 1232 10ML MDL
Inj Date : 08-JAN-2010 19:11
Operator : Inst ID: a2hp13.i
Smp Info : 1232 10ML MDL
Misc Info : 1232 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

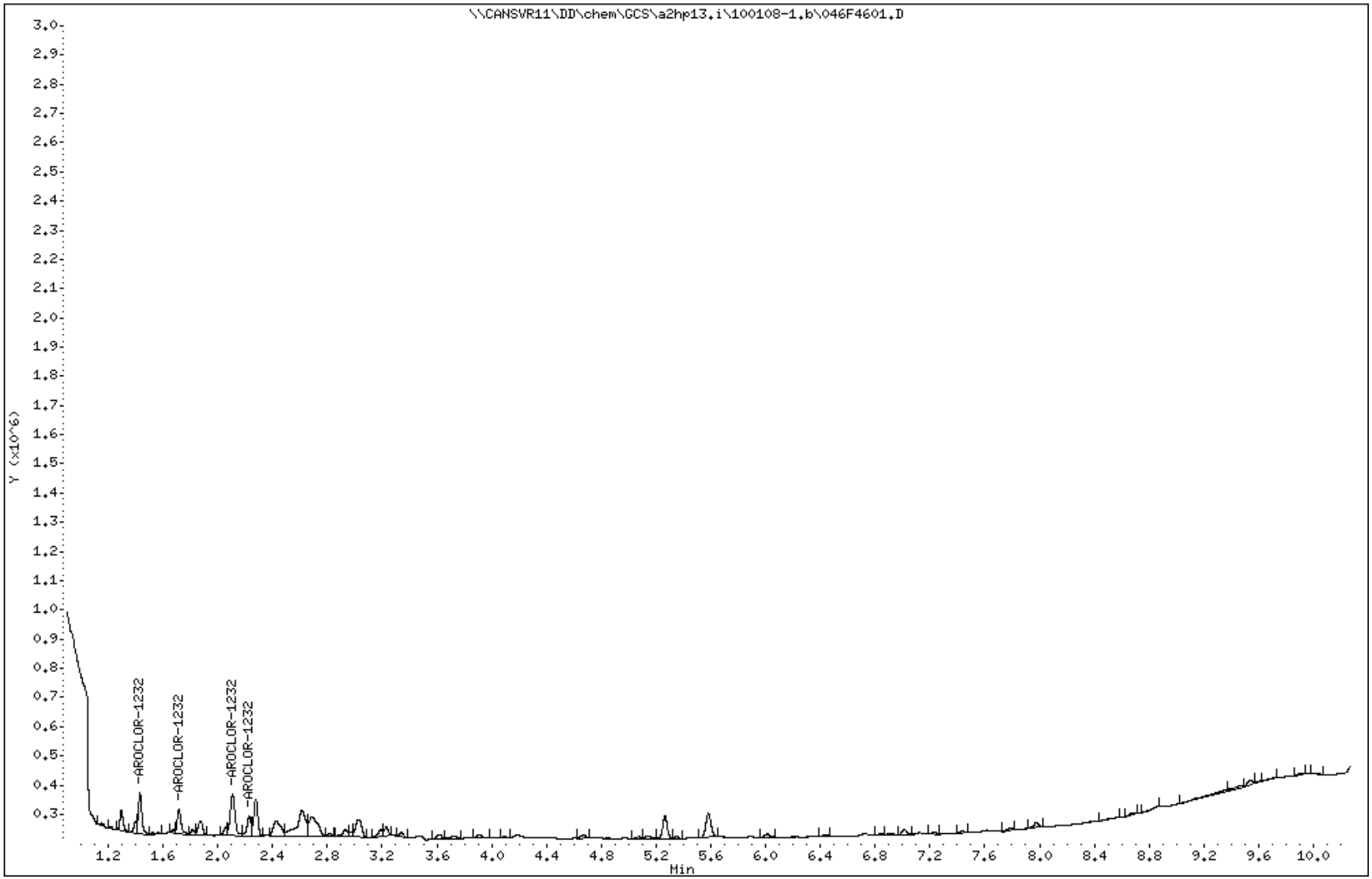
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.431	1.438	-0.007	244458	0.08394	27.98	80.00- 120.00	100.00(M)
1.714	1.723	-0.009	162511	0.07749	25.83	7.36- 12.27	66.48
2.108	2.116	-0.008	346590	0.07904	26.35	15.62- 26.04	141.78
2.228	2.237	-0.009	140699	0.08096	26.99	6.38- 10.64	57.56
2.613	2.618	-0.005	0	0.0000	0.0000	31.19- 51.99	0.00
		Average of Peak Concentrations =			26.78		

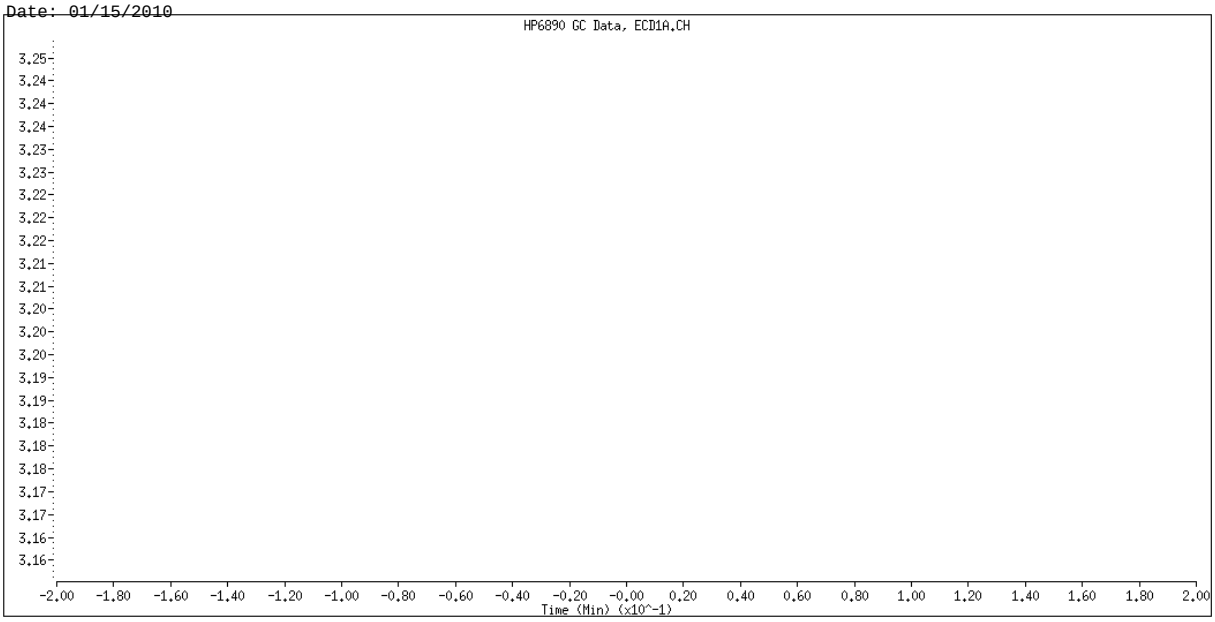
QC Flag Legend

M - Compound response manually integrated.

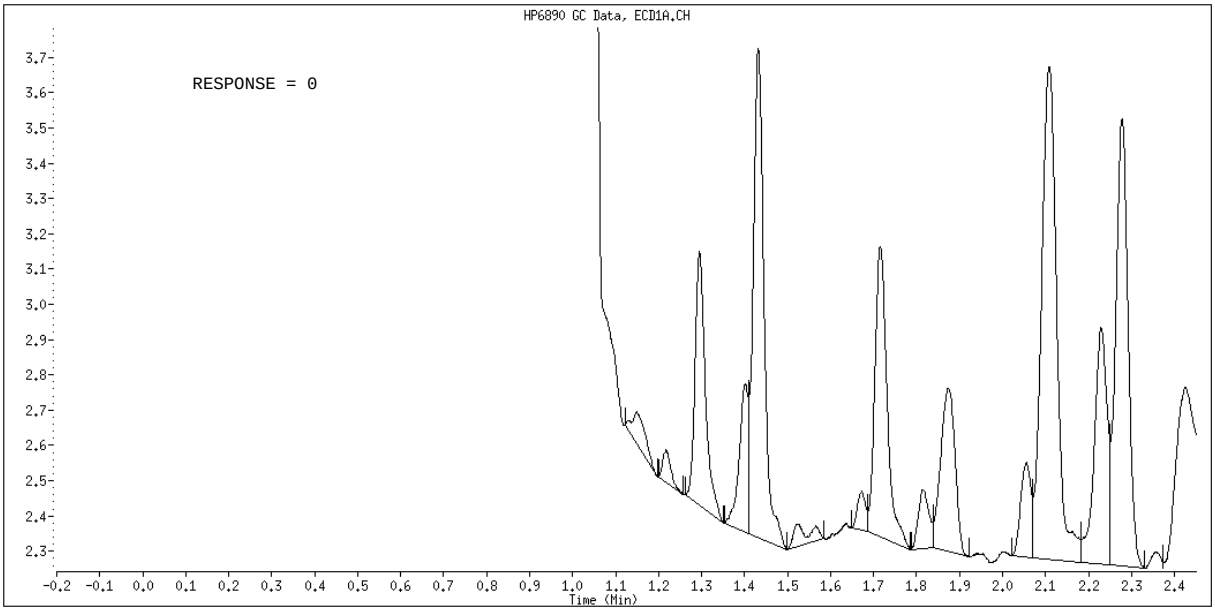
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\046F4601.D
Date : 08-JAN-2010 19:11
Client ID:
Instrument: a2hp13.i
Sample Info: 1232 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 046F4601.D
Inj. Date and Time: 08-JAN-2010 19:11
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1232
CAS #: 11141-16-5
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\047F4701.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\047F4701.D
Lab Smp Id: 1242 10ML MDL
Inj Date : 08-JAN-2010 19:25
Operator : Inst ID: a2hp13.i
Smp Info : 1242 10ML MDL
Misc Info : 1242 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 47
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

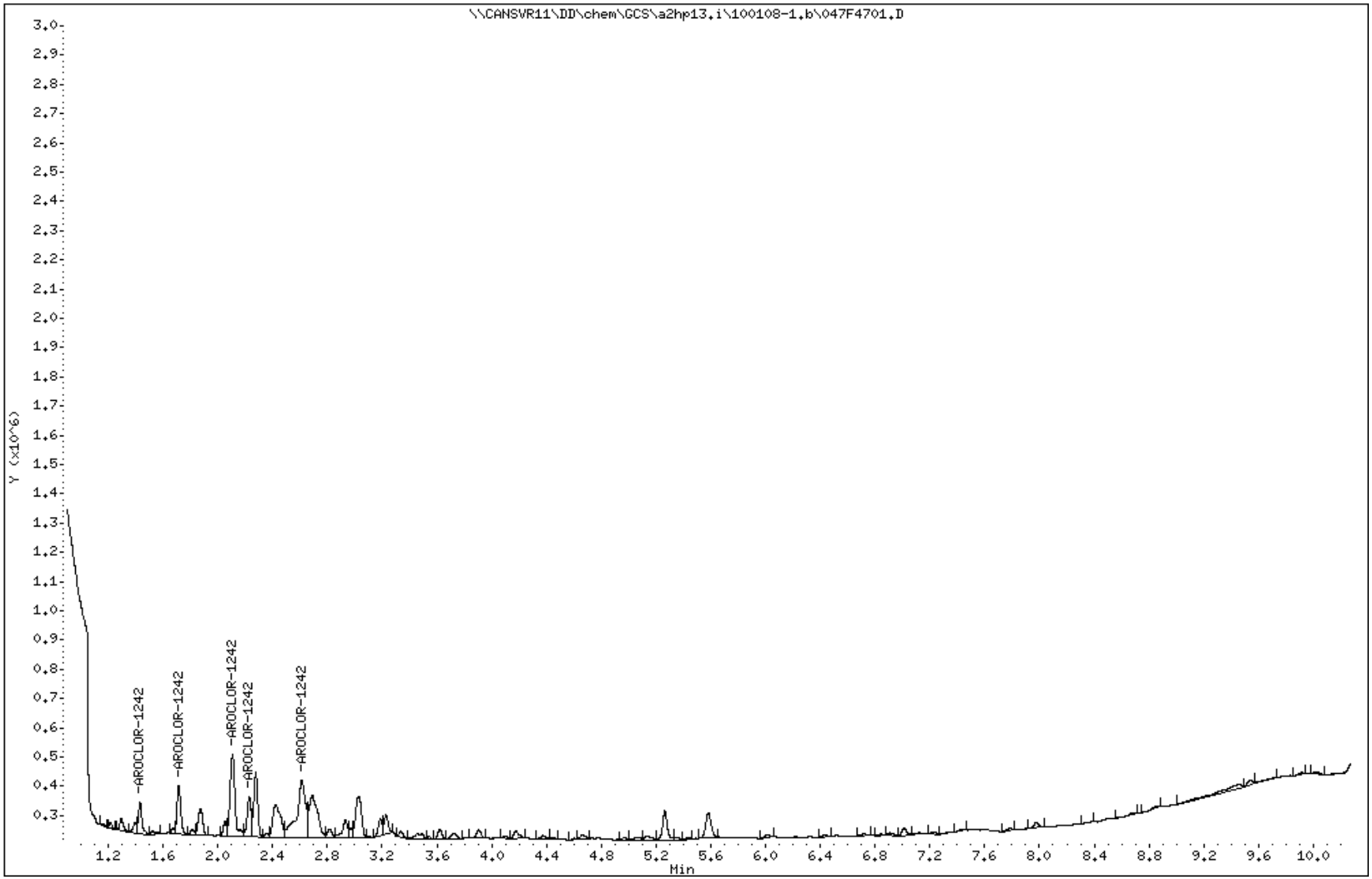
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE		RATIO
5 AROCLOR-1242					CAS #: 53469-21-9			
1.431	1.438	-0.007	196523	0.08635	28.78	80.00-	120.00	100.00(M)
1.713	1.723	-0.010	326347	0.07584	25.28	7.36-	12.27	166.06
2.107	2.116	-0.009	714475	0.08008	26.69	15.62-	26.04	363.56
2.228	2.237	-0.009	281932	0.07443	24.81	6.38-	10.64	143.46
2.618	2.618	0.000	0	0.0000	0.0000	31.19-	51.99	0.00
		Average of Peak Concentrations =			26.39			

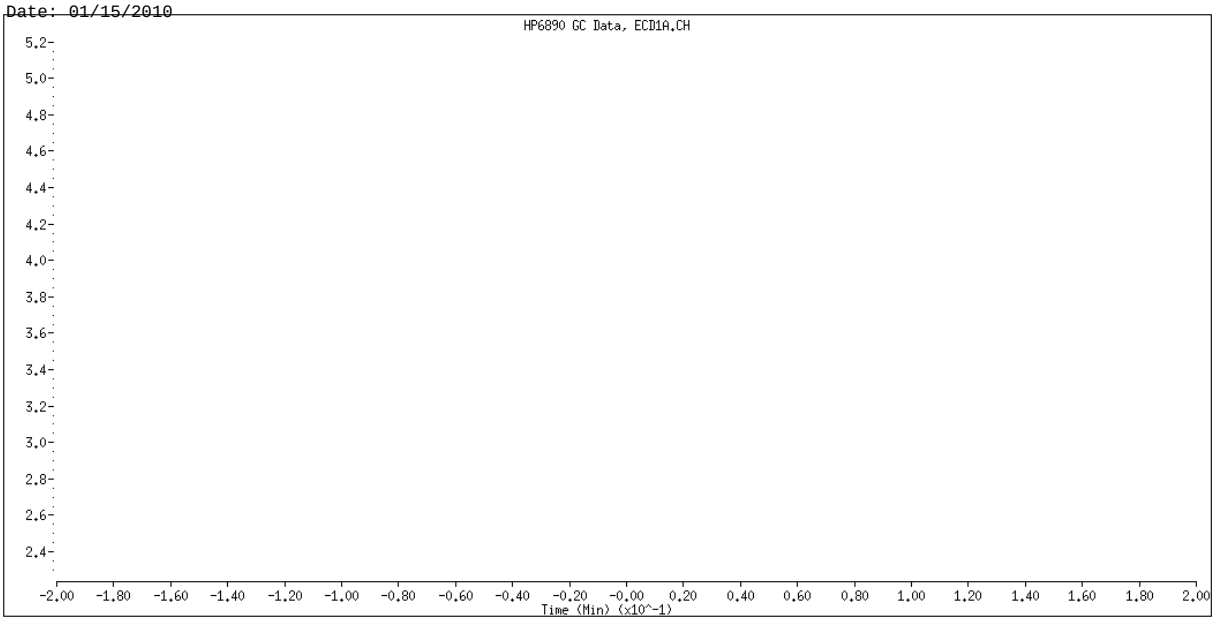
QC Flag Legend

M - Compound response manually integrated.

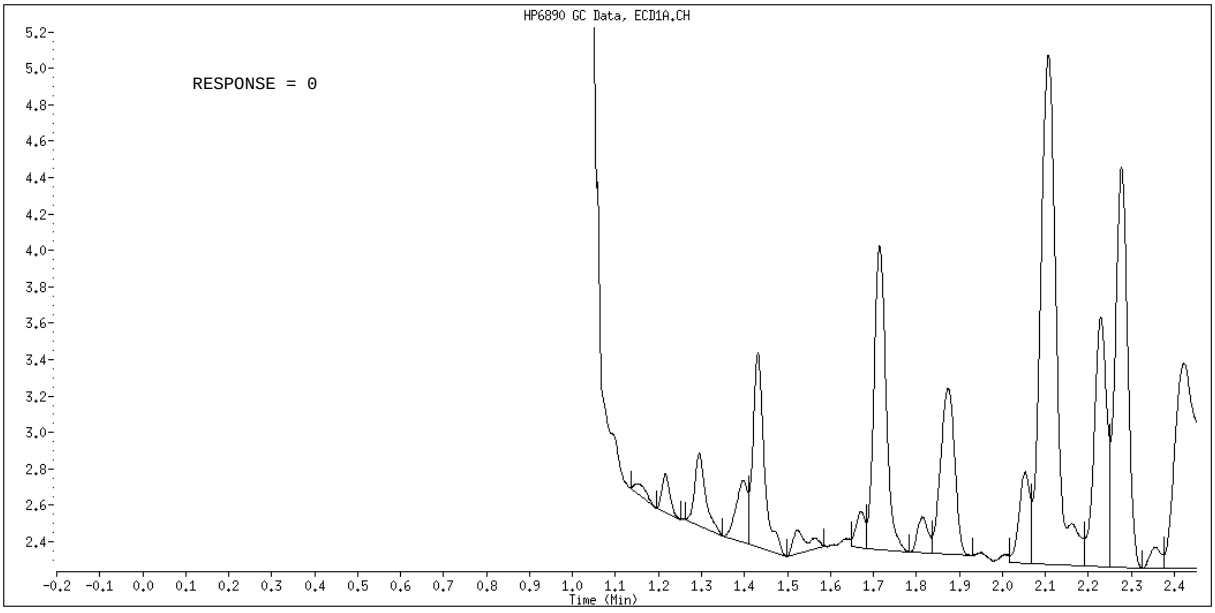
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\047F4701.D
Date : 08-JAN-2010 19:25
Client ID:
Instrument: a2hp13.i
Sample Info: 1242 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 047F4701.D
Inj. Date and Time: 08-JAN-2010 19:25
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1242
CAS #: 53469-21-9
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\049F4901.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\049F4901.D
Lab Smp Id: 2154 10ML MDL
Inj Date : 08-JAN-2010 19:56
Operator : Inst ID: a2hp13.i
Smp Info : 2154 10ML MDL
Misc Info : 2154 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

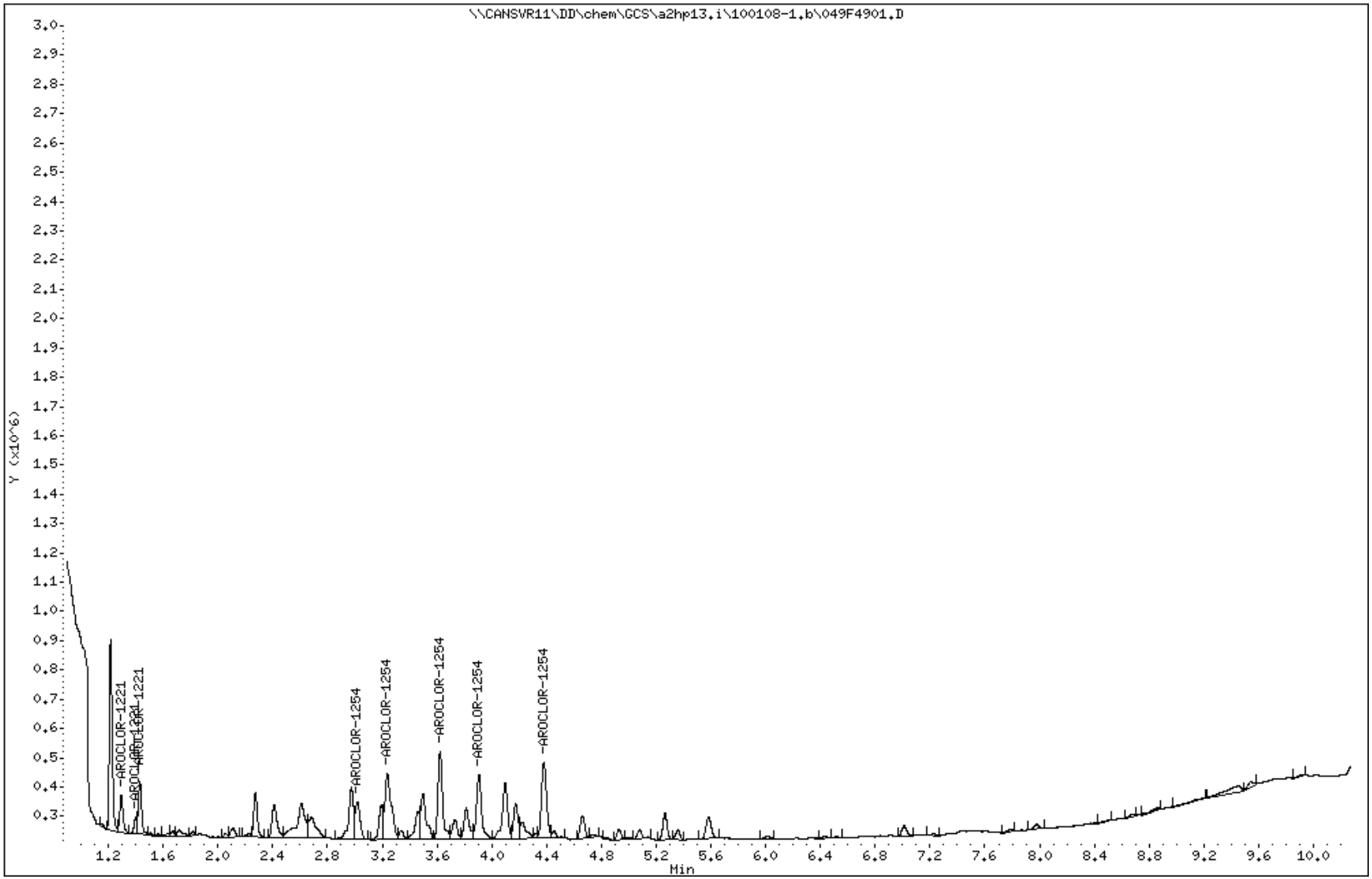
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
3.019	3.029	-0.010	129333	0.07972	26.57	80.00- 120.00	100.00
3.237	3.246	-0.009	226411	0.07944	26.48	130.23- 217.05	175.06
3.622	3.631	-0.009	297654	0.07730	25.77	167.10- 278.51	230.15
3.905	3.916	-0.011	219515	0.08025	26.75	132.69- 221.16	169.73
4.379	4.390	-0.011	256616	0.07721	25.74	160.10- 266.84	198.41
Average of Peak Concentrations =					26.26		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.294	1.289	0.005	126392	0.12293	40.98	80.00- 120.00	100.00(M)
1.400	1.397	0.003	56805	0.08340	27.80	81.56- 135.93	44.94
1.430	1.426	0.004	181395	0.07809	26.03	390.89- 651.48	143.52
Average of Peak Concentrations =					31.60		

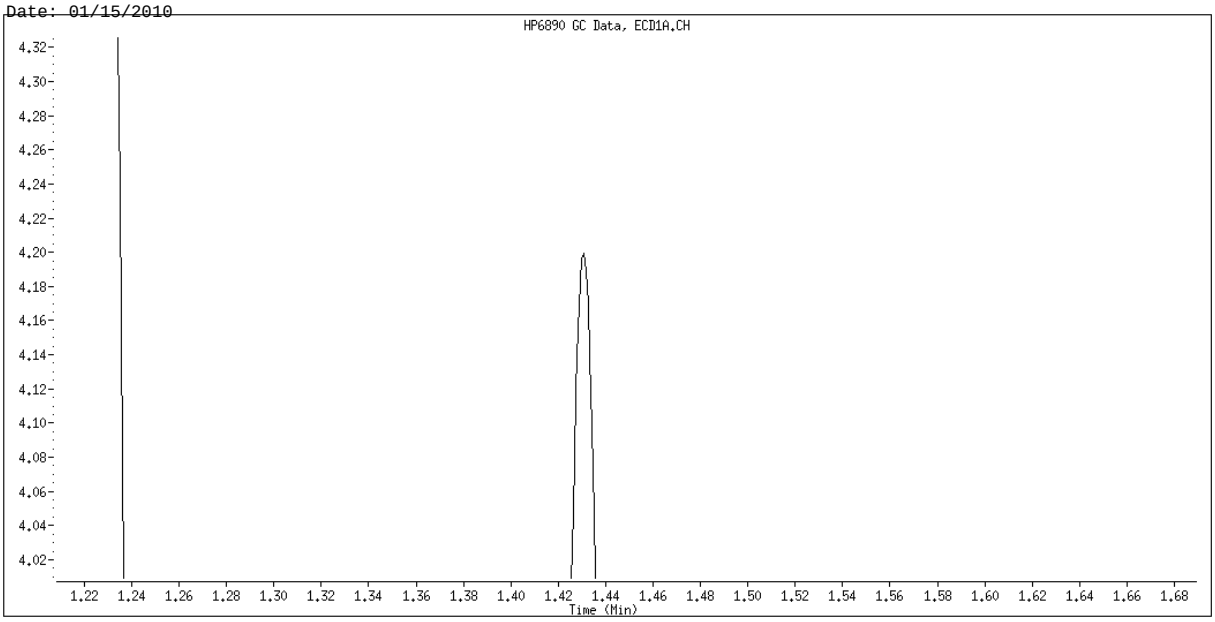
QC Flag Legend

M - Compound response manually integrated.

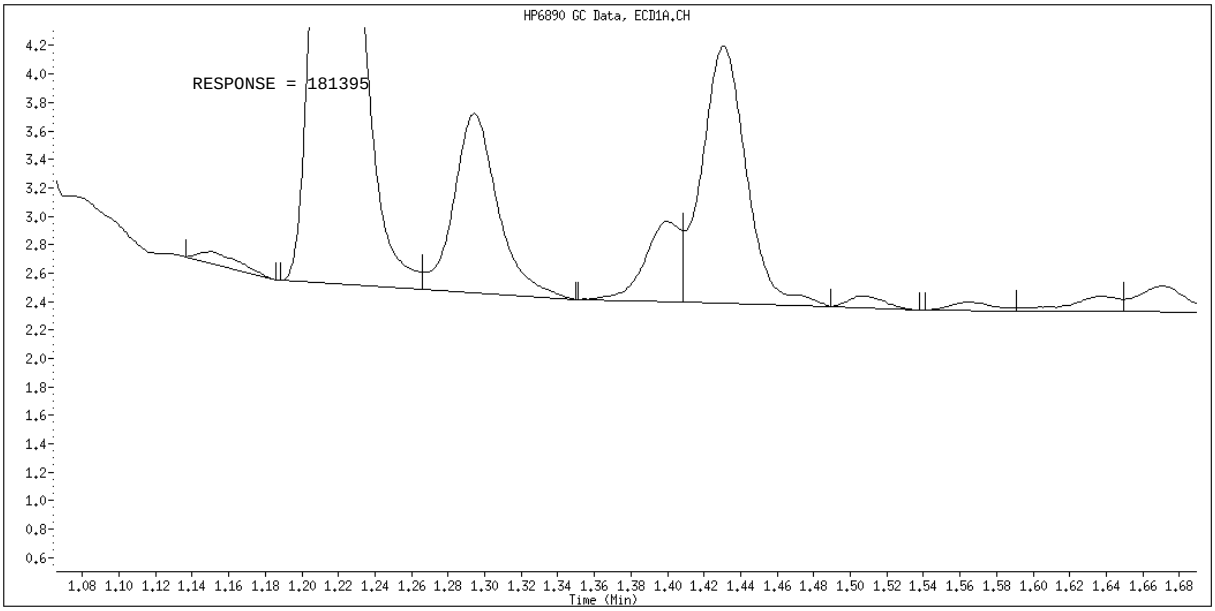
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\049F4901.D
Date : 08-JAN-2010 19:56
Client ID:
Instrument: a2hp13.i
Sample Info: 2154 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 049F4901.D
Inj. Date and Time: 08-JAN-2010 19:56
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Lab Smp Id: 1660 10ML MDL
Inj Date : 08-JAN-2010 20:11
Operator : Inst ID: a2hp13.i
Smp Info : 1660 10ML MDL
Misc Info : 1660 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.159	1.160	-0.001	396530	0.00359	1.198		(R)
3 AROCLOR-1016					CAS #: 12674-11-2		
1.430	1.430	0.000	239419	0.08788	29.29	80.00- 120.00	100.00(M)
1.713	1.712	0.001	392740	0.07903	26.34	136.81- 228.02	164.04
2.105	2.106	-0.001	856027	0.08136	27.12	292.74- 487.91	357.54
2.228	2.227	0.001	348417	0.08327	27.76	123.72- 206.19	145.53
2.612	2.609	0.003	0	0.0000	0.0000	115.22- 192.04	0.00
Average of Peak Concentrations =					27.63		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.813	3.813	0.000	221462	0.08071	26.90	80.00- 120.00	100.00
4.100	4.101	-0.001	322082	0.08228	27.42	109.03- 181.71	145.43
4.378	4.378	0.000	292567	0.08137	27.12	101.07- 168.46	132.11
5.079	5.079	0.000	447461	0.08023	26.74	156.54- 260.90	202.05
5.358	5.361	-0.003	231693	0.07837	26.12	81.79- 136.31	104.62
Average of Peak Concentrations =					26.86		

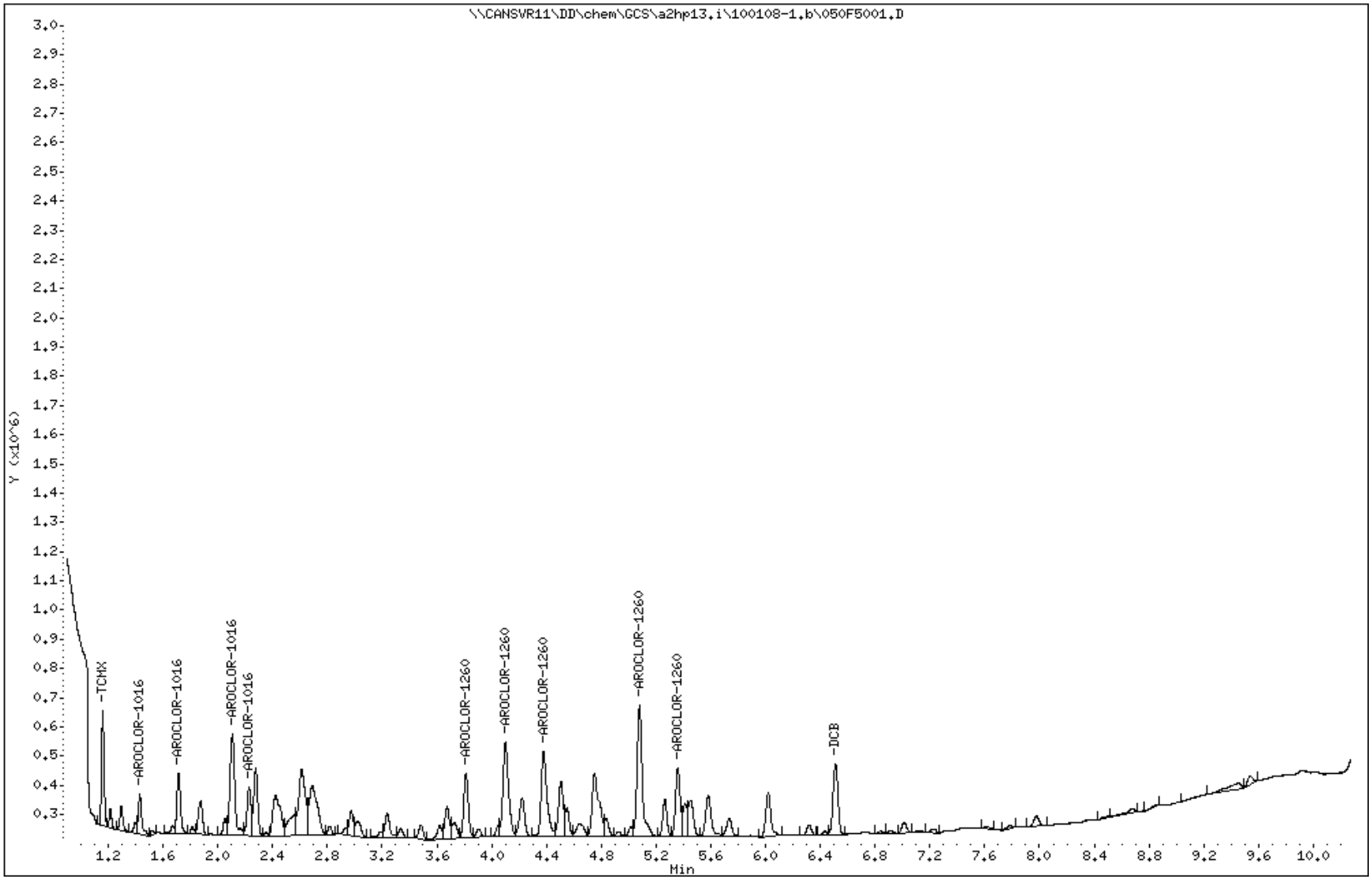
```
$   9 DCB                                       CAS #: 2051-24-3
6.510    6.510    0.000          242613 0.00424    1.413                       (R)
--------------------------------------------------------------------------------
```

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Report Date: 15-Jan-2010 10:04

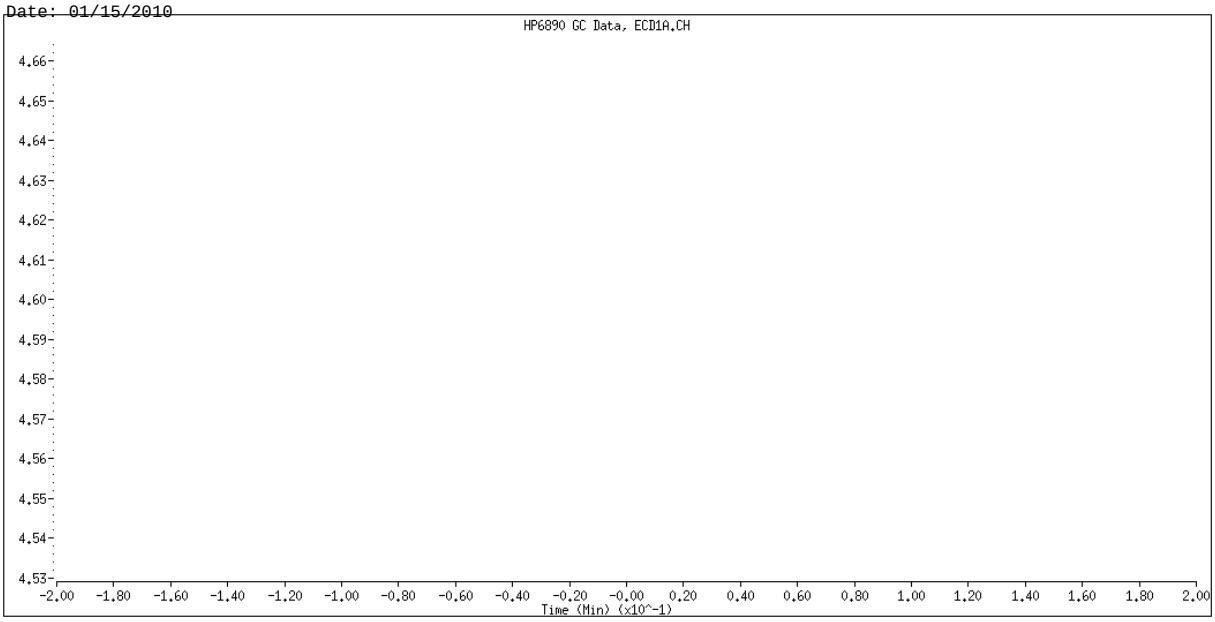
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

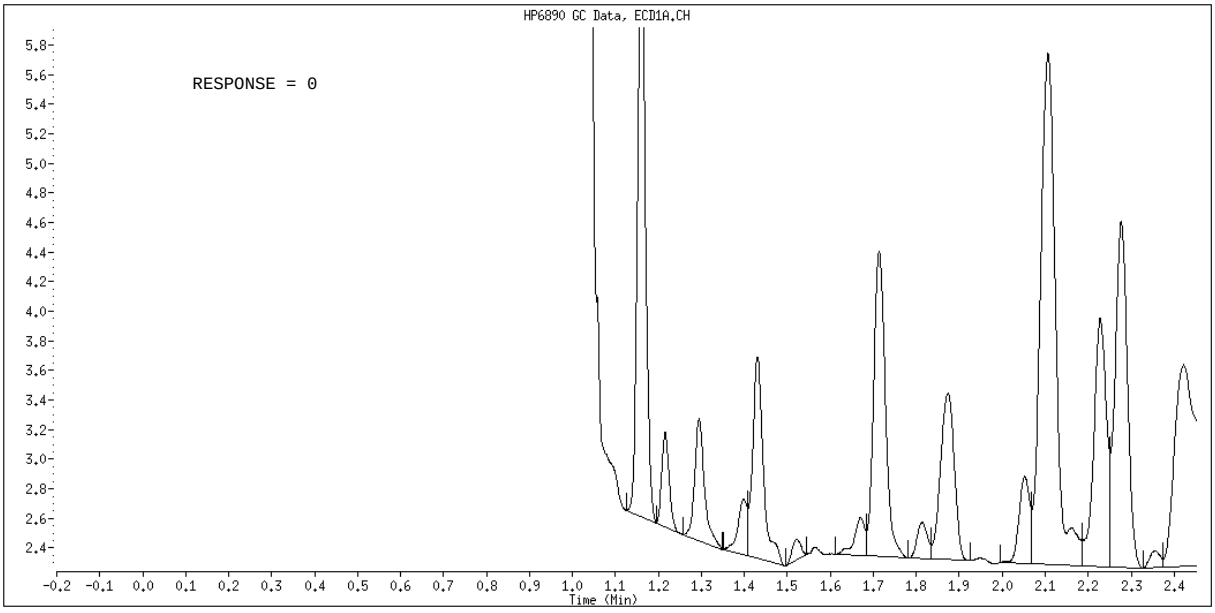
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Date : 08-JAN-2010 20:11
Client ID:
Instrument: a2hp13.i
Sample Info: 1660 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 050F5001.D
Inj. Date and Time: 08-JAN-2010 20:11
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\051F5101.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

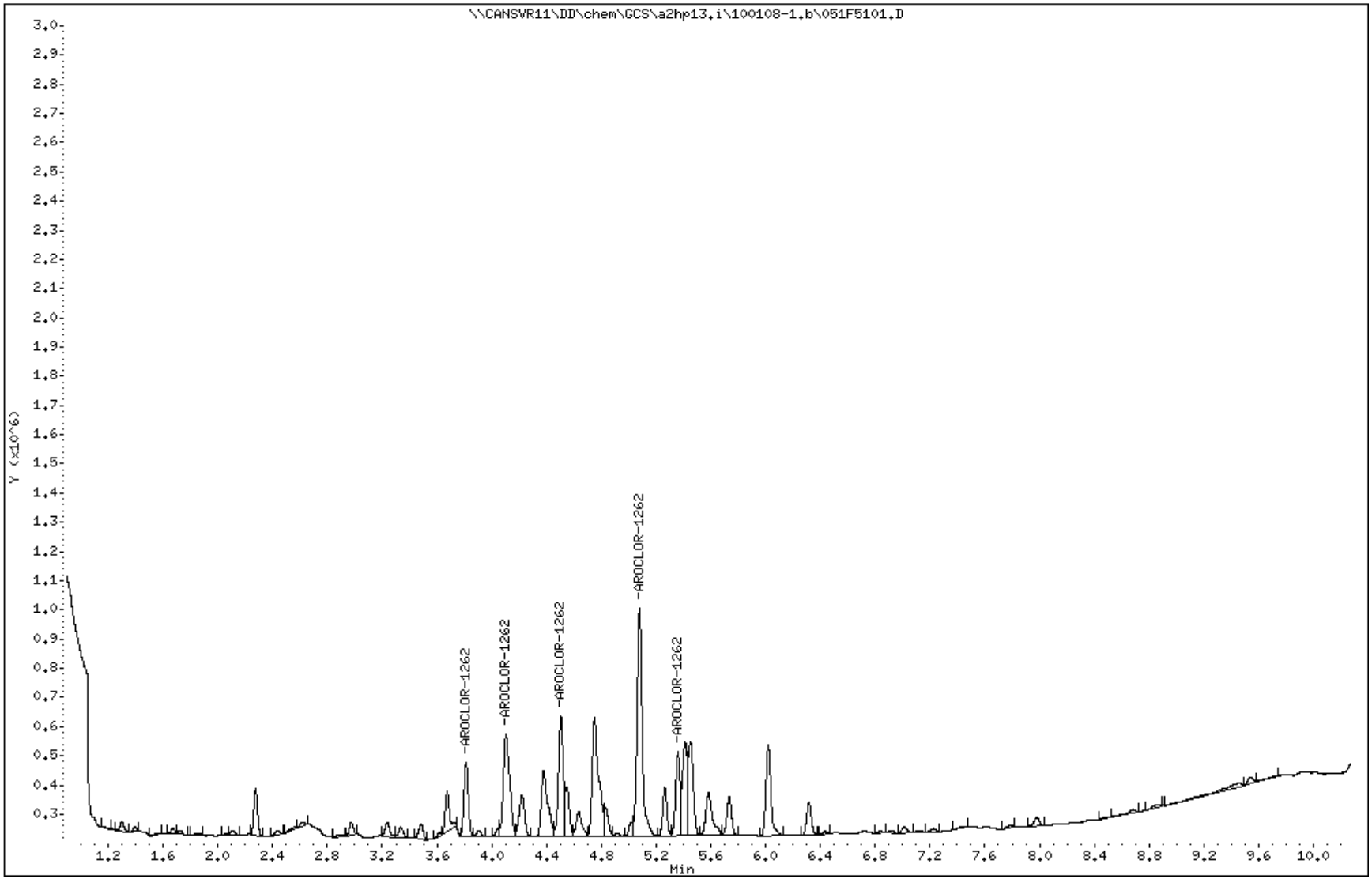
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\051F5101.D
Lab Smp Id: 1262 10ML MDL
Inj Date : 08-JAN-2010 20:25
Operator : Inst ID: a2hp13.i
Smp Info : 1262 10ML MDL
Misc Info : 1262 MDL VERIFICATION 10ML SOLID TV=33UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.812	3.823	-0.011	252831	0.11788	39.29	80.00- 120.00	100.00
4.103	4.108	-0.005	352323	0.12206	40.69	134.73- 224.56	139.35
4.506	4.466	0.040	410964	0.11973	39.91	19.79- 32.98	162.54
5.078	5.090	-0.012	782198	0.12139	40.46	22.34- 37.24	309.38
5.360	5.371	-0.011	285934	0.10442	34.80	22.90- 38.16	113.09
		Average of Peak Concentrations =			39.03		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\051F5101.D
Date : 08-JAN-2010 20:25
Client ID:
Instrument: a2hp13.i
Sample Info: 1262 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\052F5201.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

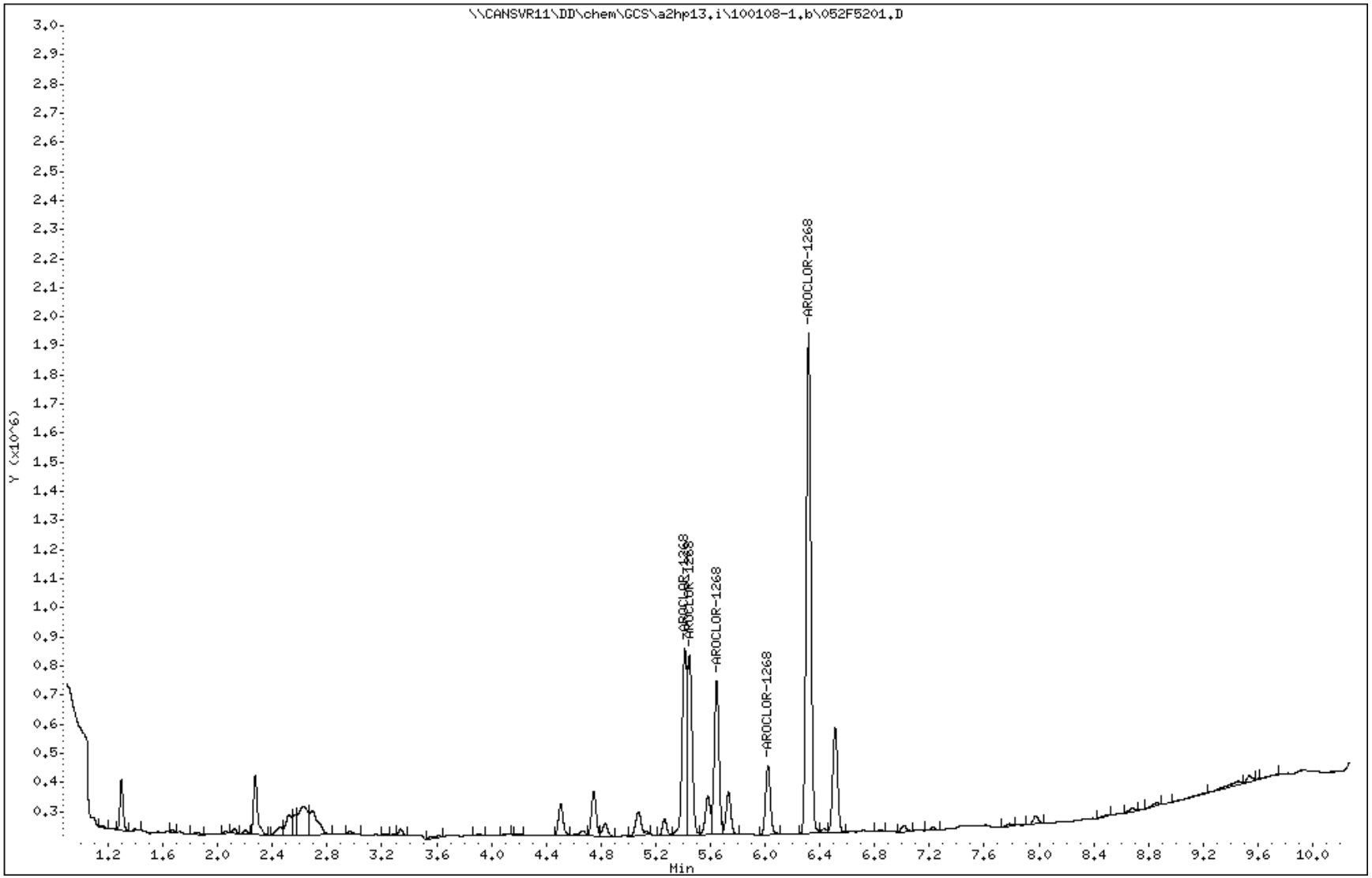
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\052F5201.D
Lab Smp Id: 1268 10ML MDL
Inj Date : 08-JAN-2010 20:40
Operator : Inst ID: a2hp13.i
Smp Info : 1268 10ML MDL
Misc Info : 1268 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 52
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.411	5.404	0.007	640686	0.07523	25.08	80.00- 120.00	100.00
5.446	5.445	0.001	619856	0.07705	25.68	79.82- 133.03	96.75
5.646	5.638	0.008	526758	0.07746	25.82	3.44- 5.74	82.22
6.021	6.014	0.007	238506	0.08326	27.75	80.73- 134.55	37.23
6.316	6.309	0.007	1720021	0.08044	26.81	21.06- 35.09	268.47
		Average of Peak Concentrations =			26.23		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\052F5201.D
Date : 08-JAN-2010 20:40
Client ID:
Instrument: a2hp13.i
Sample Info: 1268 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Report Date: 15-Jan-2010 10:05

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Lab Smp Id: BLANK 10ML MDL
Inj Date : 08-JAN-2010 20:56
Operator : Inst ID: a2hp13.i
Smp Info : BLANK 10ML MDL
Misc Info : BLANK MDL VERIFICATION 10ML SOLID
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 53
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.169	1.160	0.009	7327	7e-005	0.02214		(R)
2 AROCLOR-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Report Date: 15-Jan-2010 10:05

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

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6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

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8 AROCLOR-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

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13 AROCLOR-1262 CAS #: 37324-23-5

Peaks not detected for Quant. or Qual. signal(s).

---

14 AROCLOR-1268 CAS #: 11100-14-4

Peaks not detected for Quant. or Qual. signal(s).

M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

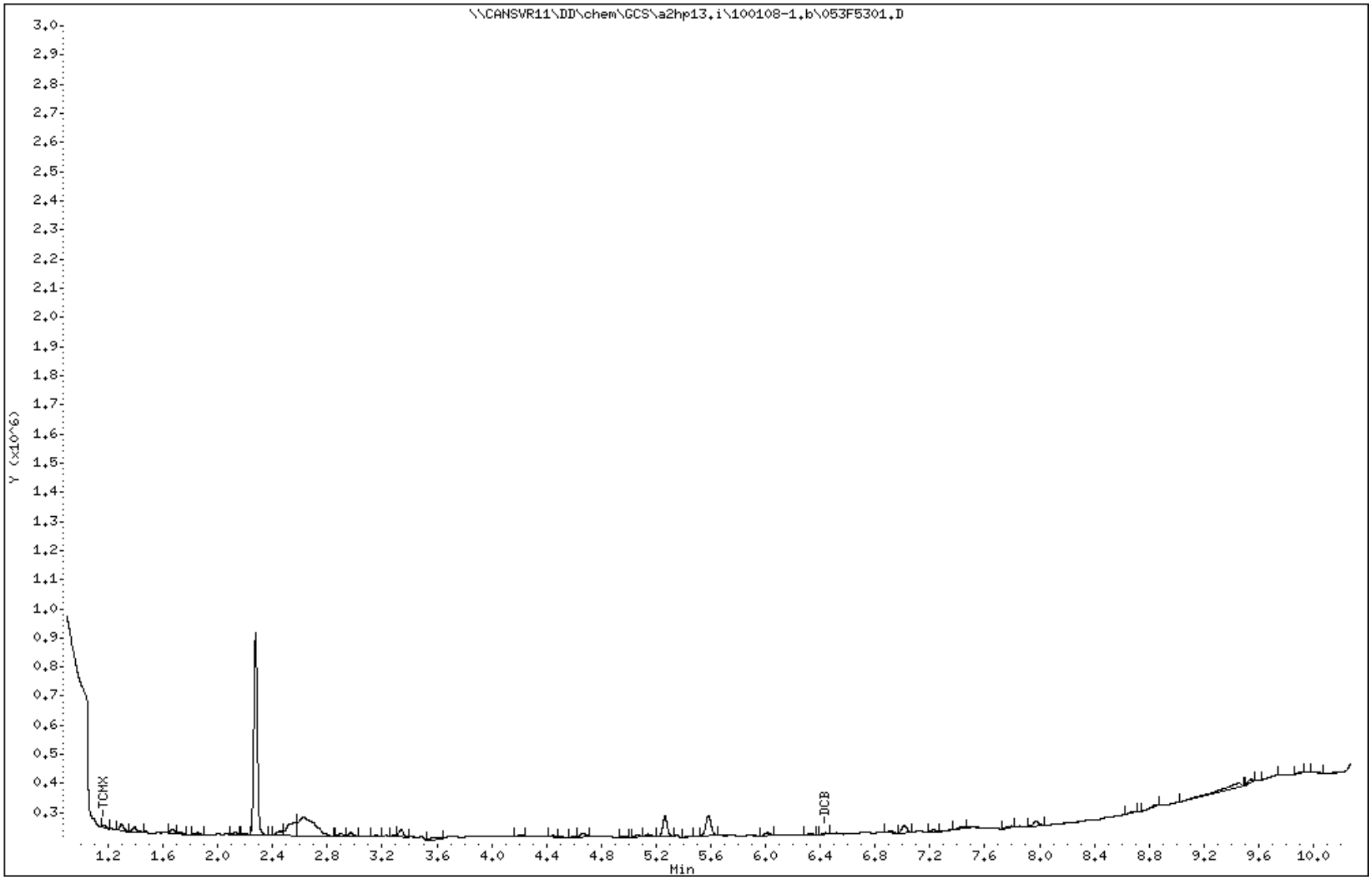
$ 9 DCB CAS #: 2051-24-3

6.436 6.510 -0.074 5218 9e-005 0.03039 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Date : 08-JAN-2010 20:56
Client ID:
Instrument: a2hp13.i
Sample Info: BLANK 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\007F0701.D
Report Date: 18-Jan-2010 08:56

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\007F0701.D
Lab Smp Id: 1248 10ML MDL
Inj Date : 18-JAN-2010 08:23
Operator : Inst ID: a2hp13.i
Smp Info : 1248 10ML MDL
Misc Info : 1248 MDL VERIFICATION 10ML SOLID TV=24.75 UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\PCB13.m
Meth Date : 18-Jan-2010 08:15 Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

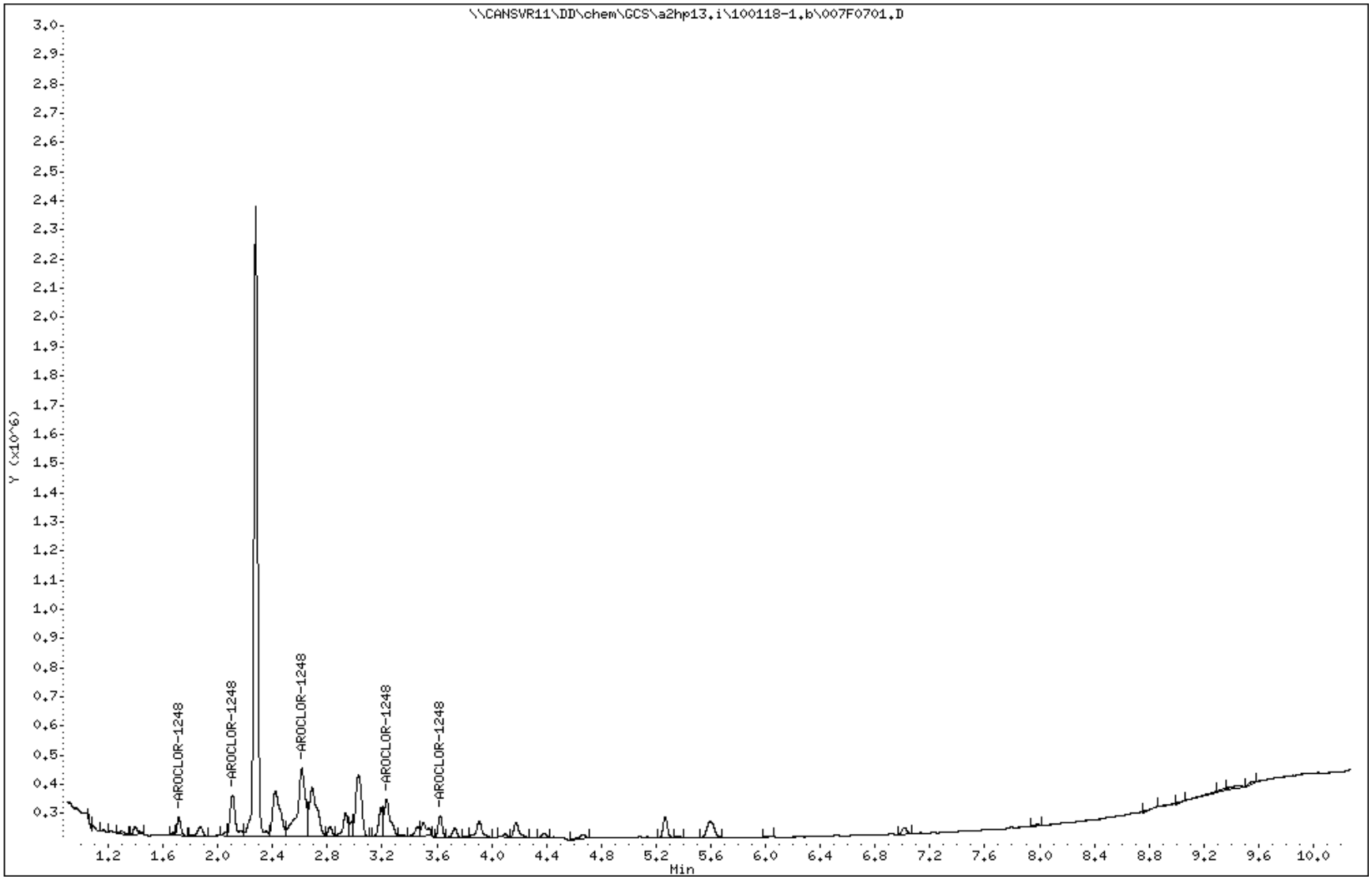
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.714	1.722	-0.008	60906	0.05552	18.51	80.00- 120.00	100.00(M)
2.107	2.116	-0.009	140523	0.06078	20.26	117.36- 195.60	230.72
2.612	2.617	-0.005	230617	0.09679	32.26	289.59- 482.65	378.64
3.232	3.246	-0.014	128809	0.06822	22.74	981.77-1636.28	211.49
3.623	3.631	-0.008	73593	0.06068	20.23	1374.25-2290.42	120.83
Average of Peak Concentrations =					22.80		

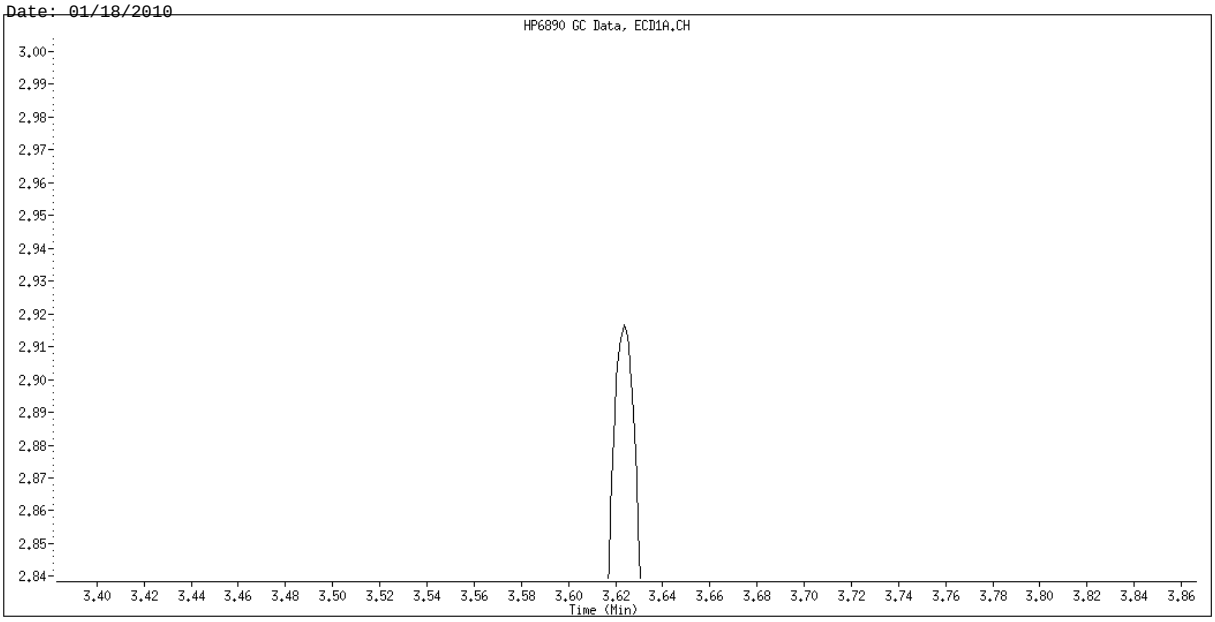
QC Flag Legend

M - Compound response manually integrated.

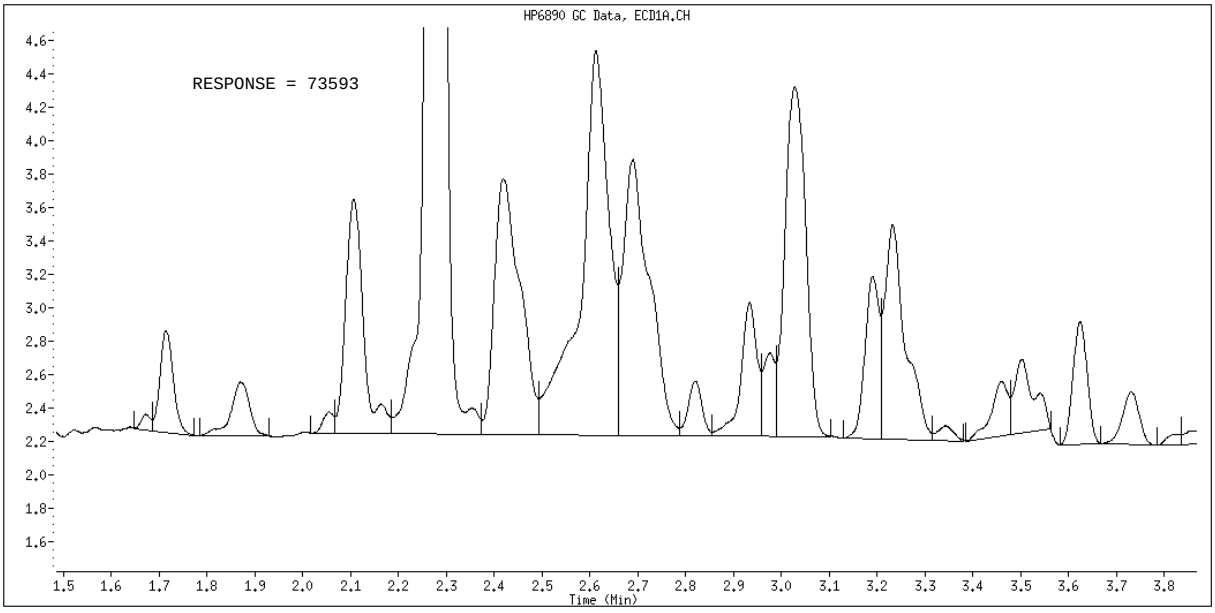
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\007F0701.D
Date : 18-JAN-2010 08:23
Client ID:
Instrument: a2hp13.i
Sample Info: 1248 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 007F0701.D
Inj. Date and Time: 18-JAN-2010 08:23
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1248
CAS #: 12672-29-6
Report Date: 01/18/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Report Date: 18-Jan-2010 08:57

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Lab Smp Id: BLANK 10ML
Inj Date : 18-JAN-2010 08:38
Operator : Inst ID: a2hp13.i
Smp Info : BLANK 10ML
Misc Info : BLANK MDL VERIFICATION 10ML SOLID
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\PCB13.m
Meth Date : 18-Jan-2010 08:15 Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.085	1.151	-0.066	30942	0.00028	0.09350		(R)
2 AROCLOR-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Report Date: 18-Jan-2010 08:57

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

---

6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

8 AROCLOR-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

13 AROCLOR-1262 CAS #: 37324-23-5

Peaks not detected for Quant. or Qual. signal(s).

---

14 AROCLOR-1268 CAS #: 11100-14-4

Peaks not detected for Quant. or Qual. signal(s).

M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

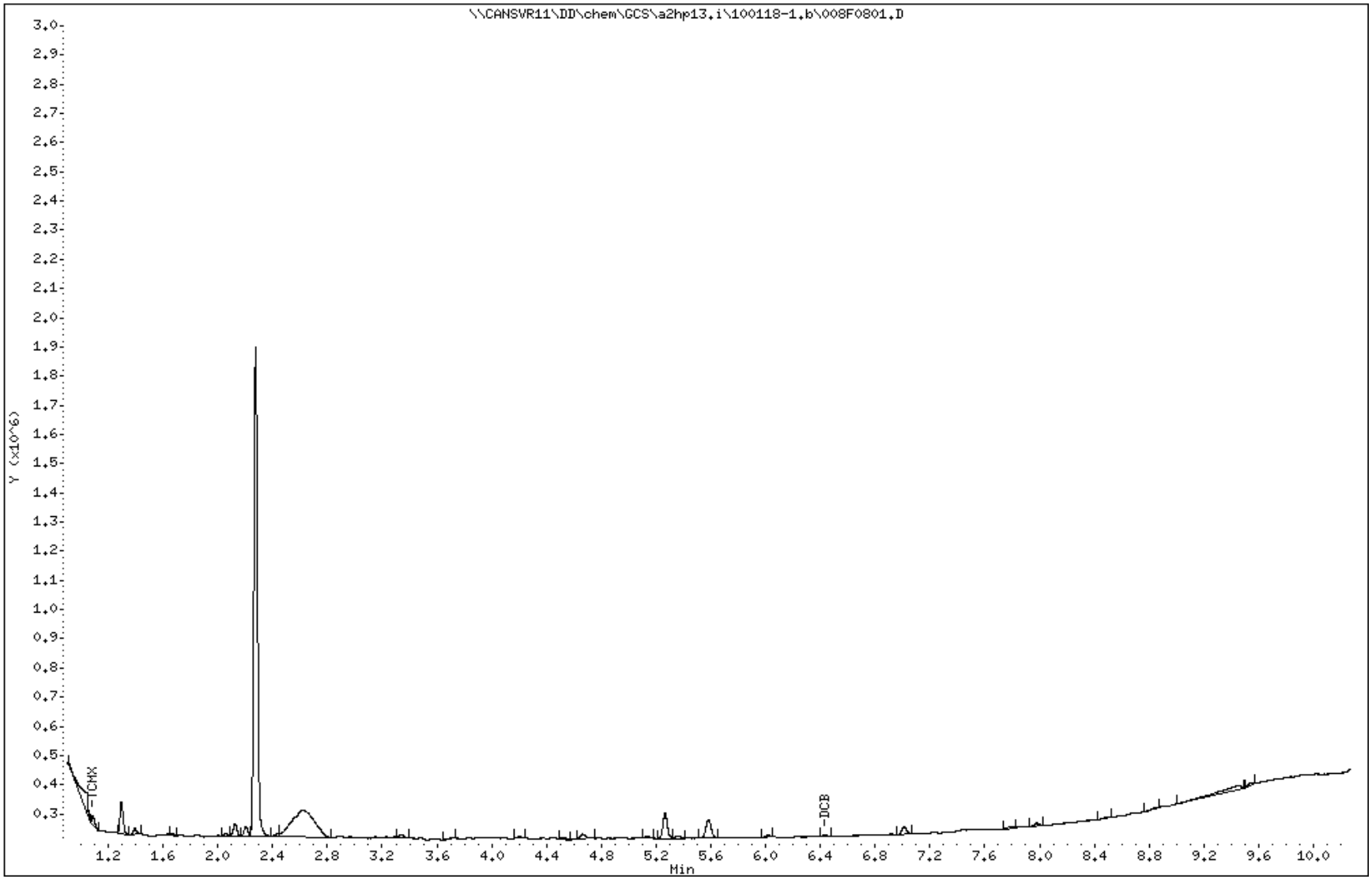
$ 9 DCB CAS #: 2051-24-3

6.439 6.504 -0.065 4429 8e-005 0.02580 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Date : 18-JAN-2010 08:38
Client ID:
Instrument: a2hp13.i
Sample Info: BLANK 10ML
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4JQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-030
Prep Date.....: 02/26/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0057030
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**82**	**(40 - 140)**	**SW846 8082**
Aroclor 1260	**92**	**(60 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(40 - 140)
Decachlorobiphenyl	105	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4JQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-030
Prep Date.....: 02/26/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0057030
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**330**	**270**	**ug/kg**	**82**	**SW846 8082**
Aroclor 1260	**330**	**310**	**ug/kg**	**92**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(40 - 140)
Decachlorobiphenyl	105	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\012F1201.D
Report Date: 03-Mar-2010 09:52

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\012F1201.D
Lab Smp Id: LV4JQ1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 02-MAR-2010 13:53
Operator : Inst ID: a2hp13.i
Smp Info : LV4JQ1AC
Misc Info : 12-AR1660TD.SUB,SLCS.SPK
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\PCB13.m
Meth Date : 02-Mar-2010 19:16 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 12 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.162	0.000	1886450	0.01518	5.062		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.433	1.433	0.000	2554635	0.71830	239.4	80.00- 120.00	100.00(M)
1.717	1.717	0.000	5016960	0.81518	271.7	135.61- 226.02	196.39
2.112	2.112	0.000	11641480	0.89696	299.0	305.79- 509.65	455.70
2.233	2.233	0.000	4551927	0.85467	284.9	123.73- 206.21	178.18
2.617	2.617	0.000	4353918	0.82095	273.6	121.85- 203.09	170.43
Average of Peak Concentrations =					273.7		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.819	3.821	-0.002	2704807	0.89613	298.7	80.00- 120.00	100.00
4.108	4.111	-0.003	3918329	0.92709	309.0	104.74- 174.56	144.87
4.386	4.388	-0.002	3860081	1.00240	334.1	95.39- 158.99	142.71
5.088	5.090	-0.002	4945361	0.85897	286.3	144.18- 240.30	182.84
5.369	5.371	-0.002	2880047	0.93921	313.1	72.95- 121.58	106.48
Average of Peak Concentrations =					308.2		

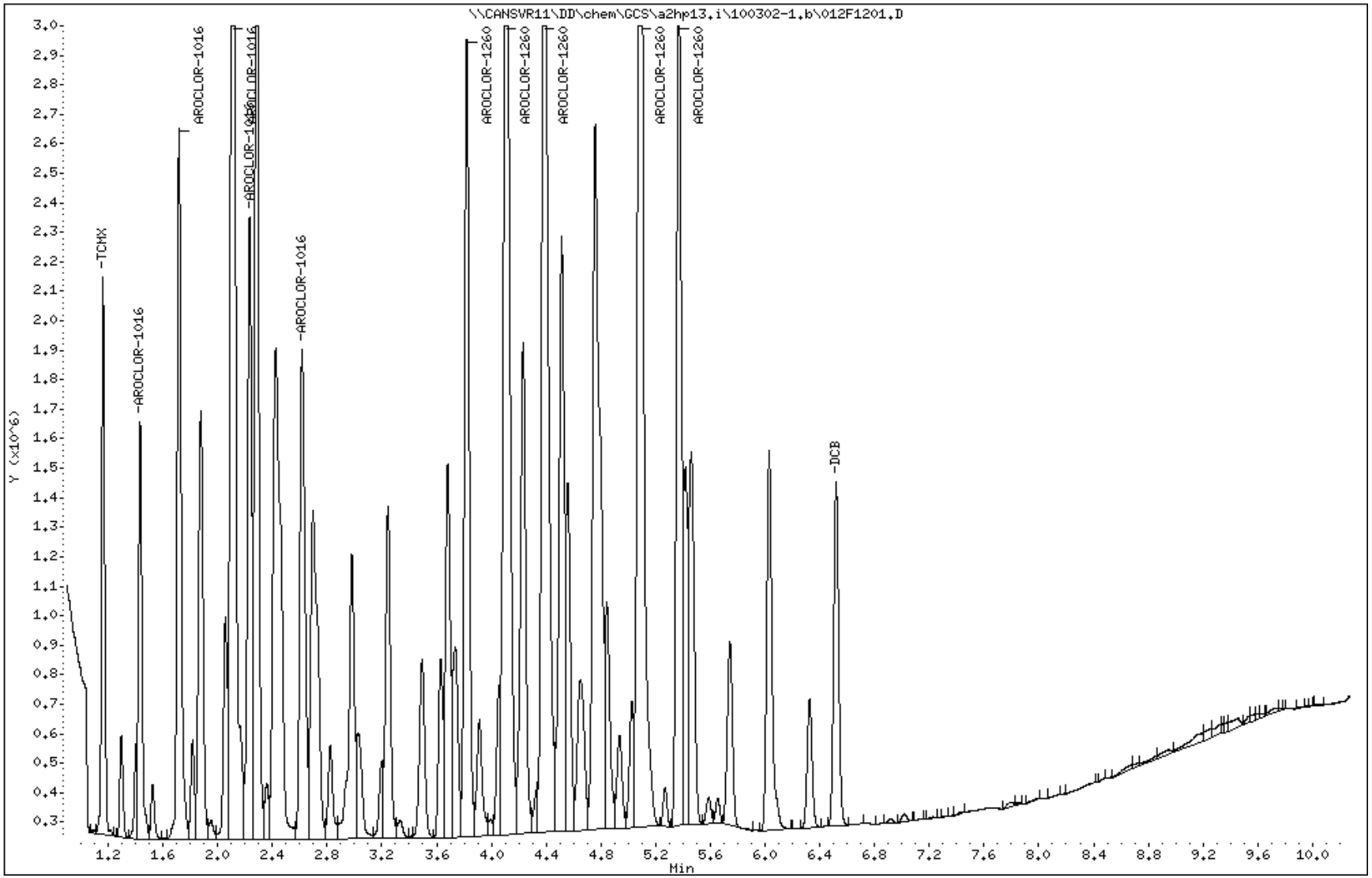
```
$   9 DCB                                       CAS #: 2051-24-3
6.518    6.518    0.000         1163948 0.02098    6.994
--------------------------------------------------------------------------------
```

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\012F1201.D
Report Date: 03-Mar-2010 09:52

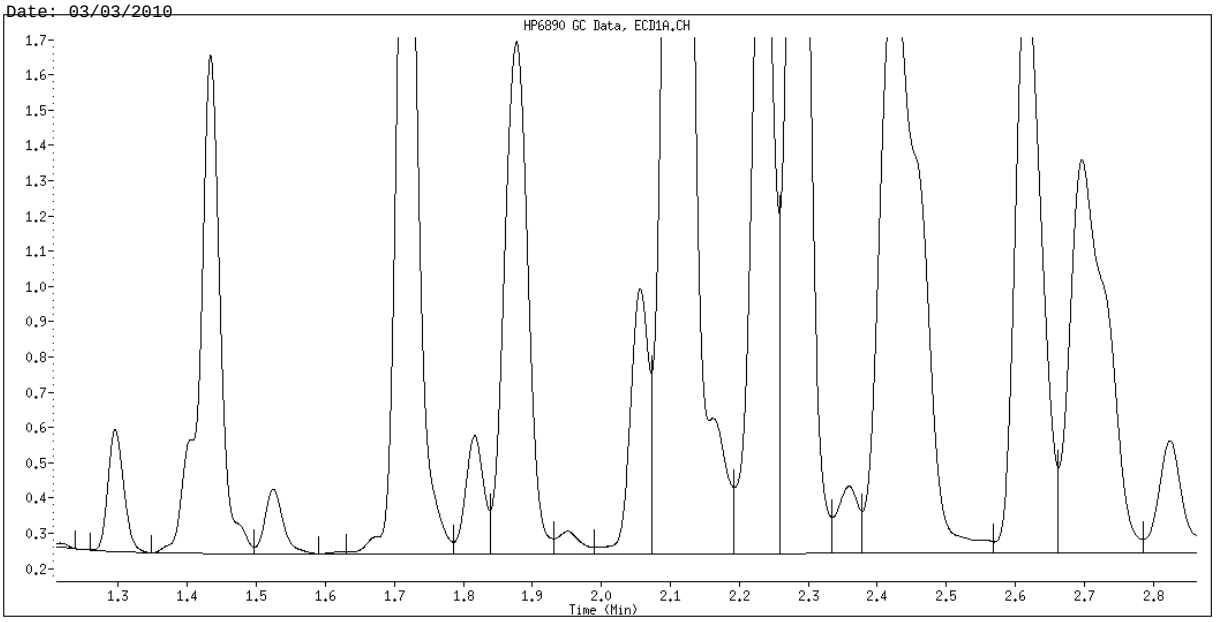
QC Flag Legend

M - Compound response manually integrated.

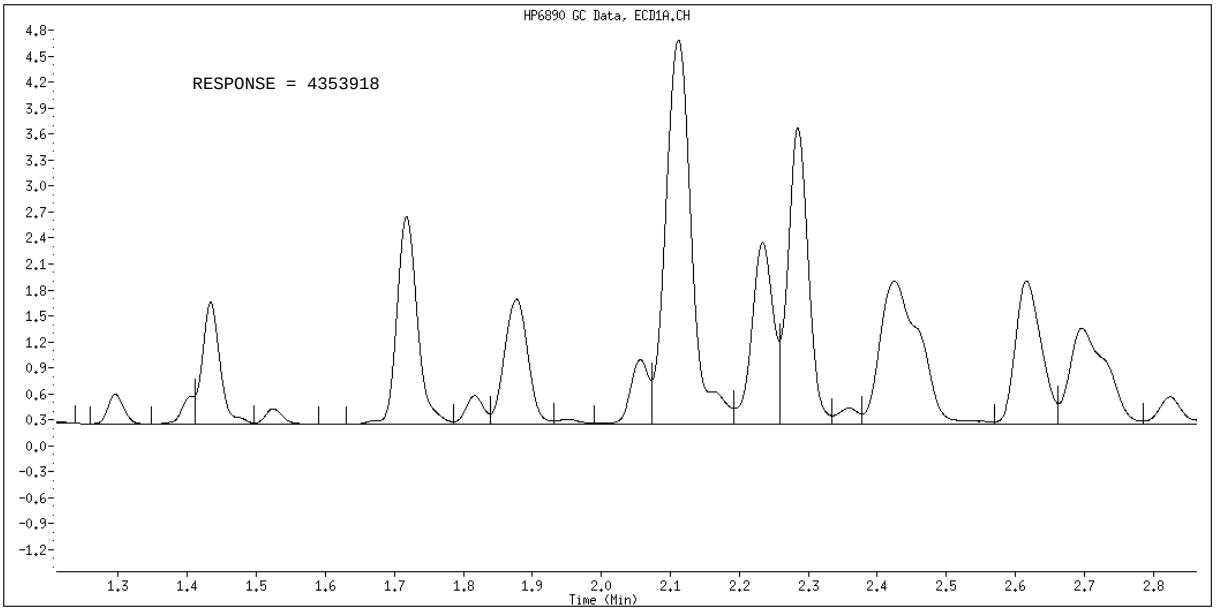
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\012F1201.D
Date : 02-MAR-2010 13:53
Client ID: INTRA-LAB CHECK
Instrument: a2hp13.i
Sample Info: LV4JQ1AC
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 012F1201.D
Inj. Date and Time: 02-MAR-2010 13:53
Instrument ID: a2hp13.i
Client ID: INTRA-LAB CHECK
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A0B250453 **Work Order #...:** LV4JQ1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0B260000-030

Prep Date.....: 02/26/10 **Final Wgt/Vol..:** 10 mL
Analysis Date..: 03/02/10 **Prep Batch #...:** 0057030
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	98	(40 - 140)
Decachlorobiphenyl	117	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\011F1101.D
Report Date: 03-Mar-2010 09:51

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\011F1101.D
Lab Smp Id: LV4JQ1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 02-MAR-2010 13:38
Operator : Inst ID: a2hp13.i
Smp Info : LV4JQ1AA
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\PCB13.m
Meth Date : 02-Mar-2010 19:16 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 11 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.162	0.000	2428798	0.01955	6.517		
2 AROCLOR-1221					CAS #: 11104-28-2		
Compound Not Detected							
3 AROCLOR-1016					CAS #: 12674-11-2		
Compound Not Detected							
4 AROCLOR-1232					CAS #: 11141-16-5		
Compound Not Detected							

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\011F1101.D
Report Date: 03-Mar-2010 09:51

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
5 AROCLOR-1242					CAS #: 53469-21-9		

Compound Not Detected

---

6 AROCLOR-1248					CAS #: 12672-29-6		

Compound Not Detected

---

7 AROCLOR-1254					CAS #: 11097-69-1		

Compound Not Detected

---

8 AROCLOR-1260					CAS #: 11096-82-5		

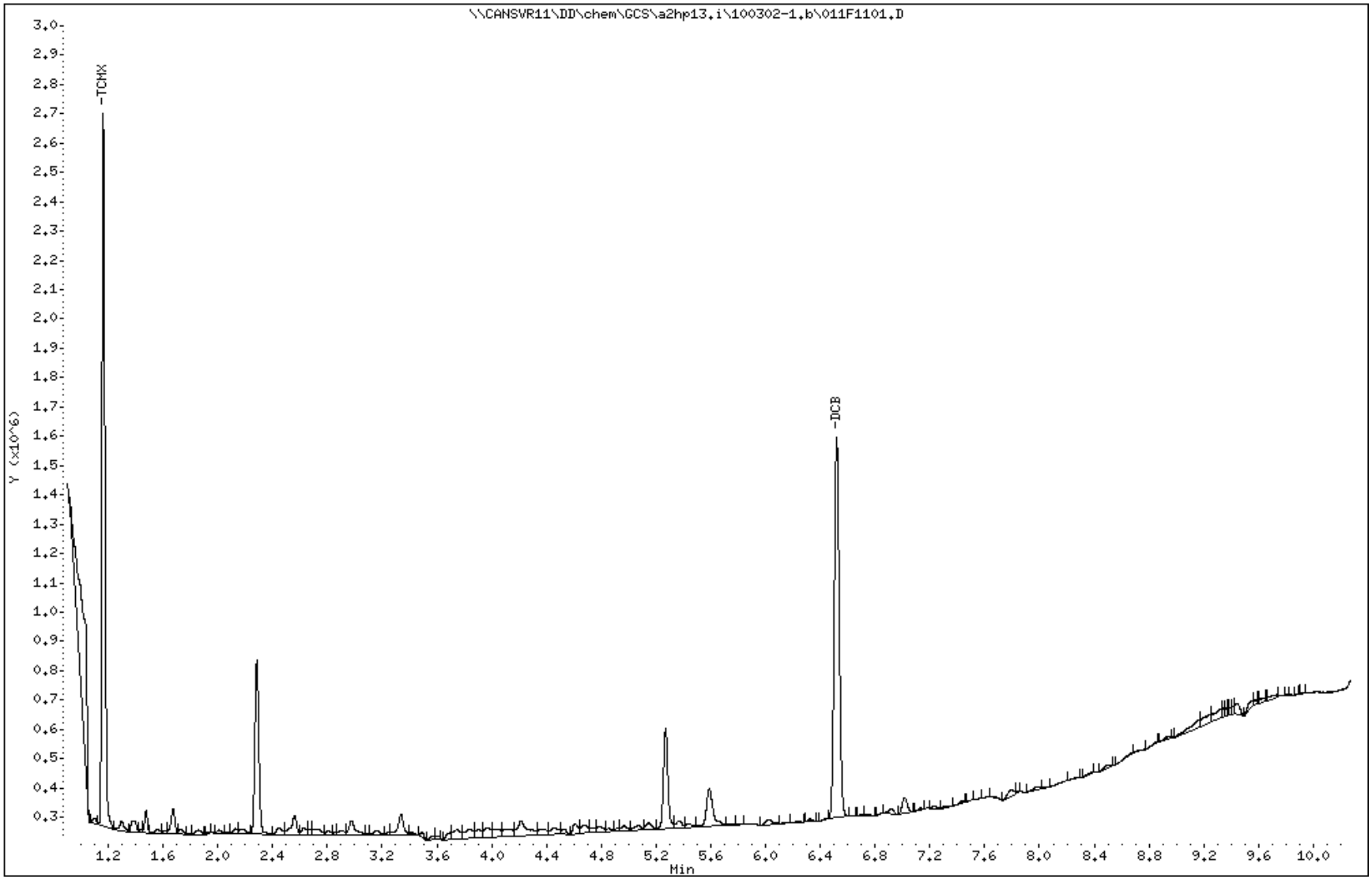
Compound Not Detected

M 15 TOTAL PCB					CAS #: 1336-36-3		

Compound Not Detected

$ 9 DCB					CAS #: 2051-24-3		
6.520	6.518	0.002	1299773	0.02343	7.810		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100302-1.b\011F1101.D
Date : 02-MAR-2010 13:38
Client ID: INTRA-LAB BLANK
Instrument: a2hp13.i
Sample Info: LV4JQ1AA
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica
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MISCELLANEOUS DATA

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp13.i

Standards Codes:	Routine Maintenance Performed:	Date: 08-FEB-2010 16:06
	Cut & Cleaned: ( )	QC Batch: 100208IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	CALIB_1	1232	2	1			
003F0301.D	CALIB_2	1232	3	1			
004F0401.D	CALIB_3	1232	4	1			
005F0501.D	CALIB_4	1232	5	1			
006F0601.D	CALIB_5	1232	6	1			
007F0701.D	CALIB_6	1232	7	1			
008F0801.D	CALIB_1	1242	8	1			
009F0901.D	CALIB_2	1242	9	1			
010F1001.D	CALIB_3	1242	10	1			
011F1101.D	CALIB_4	1242	11	1			
012F1201.D	CALIB_5	1242	12	1			
013F1301.D	CALIB_6	1242	13	1			
014F1401.D	CALIB_1	1248	14	1			
015F1501.D	CALIB_2	1248	15	1			
016F1601.D	CALIB_3	1248	16	1			
017F1701.D	CALIB_4	1248	17	1			
018F1801.D	CALIB_5	1248	18	1			
019F1901.D	CALIB_6	1248	19	1			
020F2001.D	CALIB_1	1254	20	1			
021F2101.D	CALIB_2	1254	21	1			
022F2201.D	CALIB_3	1254	22	1			
023F2301.D	CALIB_4	1254	23	1			
024F2401.D	CALIB_5	1254	24	1			
025F2501.D	CALIB_6	1254	25	1			
026F2601.D	CALIB_1	1660	26	1			
027F2701.D	CALIB_2	1660	27	1			

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp13.i

Standards Codes:	Routine Maintenance Performed:	Date: 08-FEB-2010 22:21
	Cut & Cleaned: ( )	QC Batch: 100208IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
028F2801.D	CALIB_3	1660	28	1			
029F2901.D	CALIB_4	1660	29	1			
030F3001.D	CALIB_5	1660	30	1			
031F3101.D	CALIB_6	1660	31	1			
032F3201.D	CALIB_1	1262	32	1			
033F3301.D	CALIB_2	1262	33	1			
034F3401.D	CALIB_3	1262	34	1			
035F3501.D	CALIB_4	1262	35	1			
036F3601.D	CALIB_5	1262	36	1			
037F3701.D	CALIB_6	1262	37	1			
038F3801.D	CALIB_1	1268	38	1			
039F3901.D	CALIB_2	1268	39	1			
040F4001.D	CALIB_3	1268	40	1			
041F4101.D	CALIB_4	1268	41	1			
042F4201.D	CALIB_5	1268	42	1			
043F4301.D	CALIB_6	1268	43	1			
044F4401.D	CCALIB_4	1CV	44	1			
045F0101.D	CCALIB_4	1CV	45	1			
046F0101.D	CCALIB_4	1CV	46	1			

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp13.i

Standards Codes:	Routine Maintenance Performed:	Date: 02-MAR-2010 08:55
	Cut & Cleaned: ( )	QC Batch: 100302-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	CCALIB_4	1660	2	1			
003F0301.D	MRL	MRL	3	1			
010F1001.D	ATASB-008-5135-SO	LV3JM1AF	10	1			
011F1101.D	LV4JQBLK	LV4JQ1AA	11	1			
012F1201.D	LV4JQCHK	LV4JQ1AC	12	1			
013F1301.D	CCALIB_4	E009	13	1			
034F3401.D	MRL	MRL	34	1			

Witnessed By: Date: Page No. _____

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/9/2010
Time: 15:50:48

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
			_	_	computer batch: correct & Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 401204 Michele Arteno

Concentrationist: 404000 Chris Coast

Reviewer/Date: COASTC / 2/27/10

QC BATCH: 0057030

PREP DATE: 2/26/10
COMP DATE: 2/27/10

PCBs (8082)
SOXHLET (Na2SO4) w/ACID STRIP (PCB)
SW846 3540C, SW846 3540C/3665A

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/04/10	A0B250453-002 **LV3JM-1-AF**	D	63	QH	SOLID	30.16g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	0/0/0	A0B260000-030 **LV4JQ-1-AA B**		63	QH	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	0/0/0	A0B260000-030 **LV4JQ-1-AC C**		63	QH	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 10PPM #4615 1ML 2/.2 #4621
COMMENTS:															

S&S BY MMA

DCM/ACE #J03E07 HEXANE #H46E60 NA2S04 #H35594 BALANCE #B025

ASSOC SAMPLE & BLK W/0057031; ASSOC QC W/0057029

NUMBER OF WORK ORDERS IN BATCH: 3

1199

North Canton

Lot/SDG Number: **A0B250453**

Sample Control Chain of Custody - TAL North Canton
GC Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0B250453-002	LV3JM1AF	PCBs (8082)	02/26/10	Michele Arteno	02/27/10	Chris Coast	03/02/10	Lori Hass

TestAmerica
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METALS DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

FORMS DATA

Science Applications International Corp

Client Sample ID: ATASB-006-5129-SO

TOTAL Metals

Lot-Sample #...: A0B250453-001 **Matrix.....:** SO
Date Sampled...: 02/24/10 11:20 **Date Received..:** 02/25/10
% Moisture.....: 5.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0057017						
Silver	**0.014 J**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AC**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0028		
Aluminum	**2740**	**10.6**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AD**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 2.6		
Arsenic	**6.4**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AE**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.055		
Barium	**15.7**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AF**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.14		
Beryllium	**0.15**	**0.11**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AG**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0037		
Calcium	**20700**	**212**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AH**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 42.4		
Cadmium	**0.059 J**	**0.21**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AJ**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0033		
Cobalt	**3.2**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AK**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0048		
Chromium	**4.9**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AL**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Copper	**11.0**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AM**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.12		

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-006-5129-SO

TOTAL Metals

Lot-Sample #...: A0B250453-001 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**11300**	**53.0**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AN**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.6		
Mercury	ND	0.11	mg/kg	SW846 7471A	02/26-03/03/10	LV3H61A3
		Dilution Factor: 1		Analysis Time..: 14:36	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.015		
Potassium	**456 B**	**106**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AP**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.0		
Magnesium	**6540**	**106**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AQ**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.4		
Manganese	**274**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AR**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Sodium	**43.6 J**	**106**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AT**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.8		
Nickel	**8.8**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AU**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.092		
Lead	**5.7**	**0.32**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AV**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.075		
Antimony	**0.072 J**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AW**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.066		
Selenium	**0.46 J**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61AX**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.022		

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-006-5129-SO

TOTAL Metals

Lot-Sample #...: A0B250453-001 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.084 J**	**0.21**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61A0**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.060		
Vanadium	**5.3**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61A1**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.046		
Zinc	**49.2**	**4.2**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3H61A2**
		Dilution Factor: 1		Analysis Time..: 08:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.1		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

TOTAL Metals

Lot-Sample #...: A0B250453-002 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
% Moisture.....: 5.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0057017						
Silver	**0.011 J**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AG**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0028		
Aluminum	**2230**	**10.6**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AH**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 2.6		
Arsenic	**5.1**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AJ**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.055		
Barium	**12.5**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AK**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.14		
Beryllium	**0.16**	**0.11**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AL**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0037		
Calcium	**45400**	**213**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AM**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 42.6		
Cadmium	**0.062 J**	**0.21**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AN**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0033		
Cobalt	**2.6**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AP**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0048		
Chromium	**5.4**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AQ**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Copper	**9.1**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AR**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.12		

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

TOTAL Metals

Lot-Sample #...: A0B250453-002 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**14400**	**53.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AT**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.6		
Mercury	ND	0.11	mg/kg	SW846 7471A	02/26-03/03/10	LV3JM1A7
		Dilution Factor: 1		Analysis Time..: 14:35	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.015		
Potassium	**370 B**	**106**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AU**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.0		
Magnesium	**19300**	**106**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AV**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.5		
Manganese	**316**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AW**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Sodium	**62.6 J**	**106**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1AX**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.9		
Nickel	**6.6**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1A0**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.092		
Lead	**5.6**	**0.32**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1A1**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.075		
Antimony	**0.067 J**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1A2**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.066		
Selenium	**0.39 J**	**0.53**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1A3**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.022		

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Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

TOTAL Metals

Lot-Sample #...: A0B250453-002 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	0.21	mg/kg	SW846 6020	02/26-03/01/10	LV3JM1A4
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.060		
Vanadium	**5.2**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1A5**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.046		
Zinc	**35.1**	**4.3**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JM1A6**
		Dilution Factor: 1		Analysis Time..: 09:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.1		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-009-5139-SO

TOTAL Metals

Lot-Sample #...: A0B250453-003 **Matrix.....:** SO
Date Sampled...: 02/24/10 13:55 **Date Received..:** 02/25/10
% Moisture.....: 9.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0057017						
Silver	**0.020 J**	**0.55**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AH**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0029		
Aluminum	**5210**	**11.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AJ**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 2.8		
Arsenic	**8.7**	**0.55**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AK**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.058		
Barium	**32.5**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AL**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.14		
Beryllium	**0.28**	**0.11**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AM**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0039		
Calcium	**15900**	**222**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AN**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 44.4		
Cadmium	**0.062 J**	**0.22**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AP**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0034		
Cobalt	**5.5**	**0.55**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AQ**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0050		
Chromium	**8.4**	**0.55**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AR**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Copper	**15.6**	**0.55**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AT**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.12		

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Science Applications International Corp

Client Sample ID: ATASB-009-5139-SO

TOTAL Metals

Lot-Sample #...: A0B250453-003 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**15700**	**55.4**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AU**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 12.1		
Mercury	ND	0.11	mg/kg	SW846 7471A	02/26-03/03/10	LV3JV1AE
		Dilution Factor: 1		Analysis Time..: 14:34	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.016		
Potassium	**1050 B**	**111**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AV**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.2		
Magnesium	**4140**	**111**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AW**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.9		
Manganese	**243**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AX**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Sodium	**59.2 J**	**111**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1A0**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 15.5		
Nickel	**13.9**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1A1**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.096		
Lead	**8.1**	**0.33**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1A2**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.078		
Antimony	**0.071 J**	**0.55**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1A3**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.069		
Selenium	**0.48 J**	**0.55**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1A4**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.023		

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Science Applications International Corp

Client Sample ID: ATASB-009-5139-SO

TOTAL Metals

Lot-Sample #...: A0B250453-003 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.12 J**	**0.22**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AA**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.062		
Vanadium	**10.3**	**1.1**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AC**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.048		
Zinc	**47.9**	**4.4**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JV1AD**
		Dilution Factor: 1		Analysis Time..: 09:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.1		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-010-5143-SO

TOTAL Metals

Lot-Sample #...: A0B250453-004 **Matrix.....:** SO
Date Sampled...: 02/24/10 09:23 **Date Received..:** 02/25/10
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0057017						
Silver	**0.023 J**	**0.59**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AH**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0030		
Aluminum	**7340**	**11.7**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AJ**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 2.9		
Arsenic	**10.9**	**0.59**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AK**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.061		
Barium	**46.9**	**1.2**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AL**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.15		
Beryllium	**0.41**	**0.12**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AM**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0041		
Calcium	**31300**	**234**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AN**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 46.9		
Cadmium	**0.082 J**	**0.23**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AP**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Cobalt	**8.1**	**0.59**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AQ**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0053		
Chromium	**12.6**	**0.59**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AR**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.19		
Copper	**19.4**	**0.59**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AT**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		

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Science Applications International Corp

Client Sample ID: ATASB-010-5143-SO

TOTAL Metals

Lot-Sample #...: A0B250453-004 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**21300**	**58.5**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AU**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 12.8		
Mercury	ND	0.12	mg/kg	SW846 7471A	02/26-03/03/10	LV3JW1AE
		Dilution Factor: 1		Analysis Time..: 14:40	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.016		
Potassium	**1230 B**	**117**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AV**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.4		
Magnesium	**5110**	**117**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AW**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 10.4		
Manganese	**295**	**1.2**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AX**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.19		
Sodium	**70.3 J**	**117**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1A0**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 16.4		
Nickel	**19.0**	**1.2**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1A1**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.10		
Lead	**10.1**	**0.35**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1A2**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.083		
Antimony	**0.078 J**	**0.59**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1A3**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.073		
Selenium	**0.66**	**0.59**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1A4**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.024		

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Science Applications International Corp

Client Sample ID: ATASB-010-5143-SO

TOTAL Metals

Lot-Sample #...: A0B250453-004 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.16 J**	**0.23**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AA**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.066		
Vanadium	**14.0**	**1.2**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AC**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.051		
Zinc	**57.2**	**4.7**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3JW1AD**
		Dilution Factor: 1		Analysis Time..: 09:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.2		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-011-5147-SO

TOTAL Metals

Lot-Sample #...: A0B250453-005 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0057017						
Silver	**0.019 J**	**0.58**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AH**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0030		
Aluminum	**10200**	**11.7**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AJ**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 2.9		
Arsenic	**9.7**	**0.58**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AK**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.061		
Barium	**59.0**	**1.2**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AL**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.15		
Beryllium	**0.55**	**0.12**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AM**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0041		
Calcium	**25000**	**234**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AN**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 46.8		
Cadmium	**0.080 J**	**0.23**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AP**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Cobalt	**10.4**	**0.58**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AQ**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0053		
Chromium	**16.6**	**0.58**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AR**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.19		
Copper	**18.9**	**0.58**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AT**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		

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Science Applications International Corp

Client Sample ID: ATASB-011-5147-SO

TOTAL Metals

Lot-Sample #...: A0B250453-005 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**24700**	**58.4**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AU**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 12.8		
Mercury	ND	0.12	mg/kg	SW846 7471A	02/26-03/03/10	LV3J11AE
		Dilution Factor: 1		Analysis Time..: 14:33	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.016		
Potassium	**1870 B**	**117**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AV**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.4		
Magnesium	**6190**	**117**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AW**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 10.4		
Manganese	**383**	**1.2**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AX**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.19		
Sodium	**91.5 J**	**117**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11A0**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 16.4		
Nickel	**25.3**	**1.2**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11A1**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.10		
Lead	**10.6**	**0.35**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11A2**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.082		
Antimony	**0.074 J**	**0.58**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11A3**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Selenium	**0.66**	**0.58**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11A4**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.024		

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Science Applications International Corp

Client Sample ID: ATASB-011-5147-SO

TOTAL Metals

Lot-Sample #...: A0B250453-005 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.18 J**	**0.23**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AA**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.066		
Vanadium	**18.6**	**1.2**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AC**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.050		
Zinc	**56.3**	**4.7**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3J11AD**
		Dilution Factor: 1		Analysis Time..: 09:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.2		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0B260000-017 **Prep Batch #...:** 0057017						
Aluminum	ND	10.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AG
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Antimony	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91A1
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Arsenic	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AH
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Barium	ND	1.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AJ
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Beryllium	ND	0.10	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AK
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Cadmium	ND	0.20	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AM
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Calcium	ND	200	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AL
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Chromium	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AP
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Cobalt	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AN
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Copper	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AQ
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Iron	ND	50.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AR
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	0.30	mg/kg	SW846 6020	02/26-03/01/10	LV4H91A0
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Magnesium	ND	100	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AU
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Manganese	ND	1.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AV
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Mercury	ND	0.10	mg/kg	SW846 7471A	02/26-03/03/10	LV4H91AE
		Dilution Factor: 1				
		Analysis Time..: 14:26	Analyst ID.....: 001576		Instrument ID..: H1	
Nickel	ND	1.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AX
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Potassium	**3.8 J**	**100**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV4H91AT**
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Selenium	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91A2
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Silver	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AF
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Sodium	ND	100	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AW
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Thallium	ND	0.20	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AA
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Vanadium	ND	1.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AC
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Zinc	ND	4.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AD
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0B260000-017 **Prep Batch #...:** 0057017					
Thallium	93	(71 - 110)	SW846 6020	02/26-03/01/10	LV4H91A3
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Vanadium	90	(72 - 110)	SW846 6020	02/26-03/01/10	LV4H91A4
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Zinc	100	(72 - 113)	SW846 6020	02/26-03/01/10	LV4H91A5
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Mercury	98	(80 - 120)	SW846 7471A	02/26-03/03/10	LV4H91A6
		Dilution Factor: 1	Analysis Time..: 14:27	Analyst ID.....: 001576	
		Instrument ID..: H1			
Silver	98	(60 - 114)	SW846 6020	02/26-03/01/10	LV4H91A7
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Aluminum	99	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91A8
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Arsenic	84	(73 - 110)	SW846 6020	02/26-03/01/10	LV4H91A9
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Barium	91	(70 - 110)	SW846 6020	02/26-03/01/10	LV4H91CA
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Beryllium	83	(79 - 110)	SW846 6020	02/26-03/01/10	LV4H91CC
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Calcium	106	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CD
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	88	(74 - 110)	SW846 6020	02/26-03/01/10	LV4H91CE
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Cobalt	94	(74 - 110)	SW846 6020	02/26-03/01/10	LV4H91CF
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Chromium	93	(70 - 110)	SW846 6020	02/26-03/01/10	LV4H91CG
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Copper	95	(73 - 110)	SW846 6020	02/26-03/01/10	LV4H91CH
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Iron	95	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CJ
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Potassium	97	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CK
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Magnesium	101	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CL
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Manganese	103	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CM
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Sodium	97	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CN
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Nickel	95	(75 - 110)	SW846 6020	02/26-03/01/10	LV4H91CP
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Lead	91	(75 - 110)	SW846 6020	02/26-03/01/10	LV4H91CQ
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	91	(68 - 113)	SW846 6020	02/26-03/01/10	LV4H91CR
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Selenium	81	(65 - 110)	SW846 6020	02/26-03/01/10	LV4H91CT
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0B260000-017 **Prep Batch #...:** 0057017							
Thallium	10.0	9.3	mg/kg	93	SW846 6020	02/26-03/01/10	LV4H91A3
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Vanadium	10.0	9.0	mg/kg	90	SW846 6020	02/26-03/01/10	LV4H91A4
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Zinc	10.0	10	mg/kg	100	SW846 6020	02/26-03/01/10	LV4H91A5
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Mercury	0.83	0.81	mg/kg	98	SW846 7471A	02/26-03/03/10	LV4H91A6
			Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 001576	
			Instrument ID..: H1				
Silver	10.0	9.8	mg/kg	98	SW846 6020	02/26-03/01/10	LV4H91A7
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Aluminum	1000	994	mg/kg	99	SW846 6020	02/26-03/01/10	LV4H91A8
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Arsenic	10.0	8.4	mg/kg	84	SW846 6020	02/26-03/01/10	LV4H91A9
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Barium	10.0	9.1	mg/kg	91	SW846 6020	02/26-03/01/10	LV4H91CA
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Beryllium	10.0	8.3	mg/kg	83	SW846 6020	02/26-03/01/10	LV4H91CC
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Calcium	1000	1060	mg/kg	106	SW846 6020	02/26-03/01/10	LV4H91CD
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	10.0	8.8	mg/kg	88	SW846 6020	02/26-03/01/10	LV4H91CE
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Cobalt	10.0	9.4	mg/kg	94	SW846 6020	02/26-03/01/10	LV4H91CF
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Chromium	10.0	9.3	mg/kg	93	SW846 6020	02/26-03/01/10	LV4H91CG
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Copper	10.0	9.5	mg/kg	95	SW846 6020	02/26-03/01/10	LV4H91CH
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Iron	1000	948	mg/kg	95	SW846 6020	02/26-03/01/10	LV4H91CJ
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Potassium	1000	973	mg/kg	97	SW846 6020	02/26-03/01/10	LV4H91CK
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Magnesium	1000	1010	mg/kg	101	SW846 6020	02/26-03/01/10	LV4H91CL
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Manganese	10.0	10.3	mg/kg	103	SW846 6020	02/26-03/01/10	LV4H91CM
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Sodium	1000	967	mg/kg	97	SW846 6020	02/26-03/01/10	LV4H91CN
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Nickel	10.0	9.5	mg/kg	95	SW846 6020	02/26-03/01/10	LV4H91CP
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Lead	10.0	9.1	mg/kg	91	SW846 6020	02/26-03/01/10	LV4H91CQ
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	10.0	9.1	mg/kg	91	SW846 6020	02/26-03/01/10	LV4H91CR
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Selenium	10.0	8.1	mg/kg	81	SW846 6020	02/26-03/01/10	LV4H91CT
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

MS Lot-Sample #: A0B250463-009 **Prep Batch #...:** 0057017
% Moisture.....: 24

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	NC,MSB	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11A0
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	02/26-03/01/10	LV3K11A1
		Dilution Factor: 10					
		Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637	
Antimony	37 N	(75 - 125)			SW846 6020	02/26-03/01/10	LV3K11DK
	31 N	(75 - 125)	17	(0-20)	SW846 6020	02/26-03/01/10	LV3K11DL
		Dilution Factor: 10					
		Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637	
Arsenic	104	(23 - 131)			SW846 6020	02/26-03/01/10	LV3K11A3
	92	(23 - 131)	6.7	(0-20)	SW846 6020	02/26-03/01/10	LV3K11A4
		Dilution Factor: 10					
		Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637	
Barium	118	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11A6
	74	(10 - 199)	9.6	(0-20)	SW846 6020	02/26-03/01/10	LV3K11A7
		Dilution Factor: 10					
		Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637	
Beryllium	96	(58 - 112)			SW846 6020	02/26-03/01/10	LV3K11A9
	90	(58 - 112)	6.4	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CA
		Dilution Factor: 10					
		Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637	
Cadmium	95	(58 - 110)			SW846 6020	02/26-03/01/10	LV3K11CG
	88	(58 - 110)	7.2	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CH
		Dilution Factor: 10					
		Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637	
Calcium	95	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11CD
	96	(70 - 130)	0.87	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CE
		Dilution Factor: 10					
		Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637	
Chromium	111	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11CN
	86	(10 - 199)	10	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CP
		Dilution Factor: 10					
		Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	96	(55 - 110)			SW846 6020	02/26-03/01/10	LV3K11CK
	86	(55 - 110)	7.8	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CL
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Copper	106	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11CR
	95	(10 - 199)	5.5	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CT
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Iron	NC,MSB	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11CV
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	02/26-03/01/10	LV3K11CW
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Lead	95	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11DG
	79	(10 - 199)	9.0	(0-20)	SW846 6020	02/26-03/01/10	LV3K11DH
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Magnesium	124	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11C3
	96	(70 - 130)	8.8	(0-20)	SW846 6020	02/26-03/01/10	LV3K11C4
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Manganese	NC,MSB	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11C6
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	02/26-03/01/10	LV3K11C7
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Mercury	103	(80 - 120)			SW846 7471A	02/26-03/03/10	LV3K11AM
	93	(80 - 120)	8.0	(0-20)	SW846 7471A	02/26-03/03/10	LV3K11AN
		Dilution Factor: 1					
		Analysis Time..: 14:31			Instrument ID..: H1	Analyst ID.....: 001576	
Nickel	114	(10 - 176)			SW846 6020	02/26-03/01/10	LV3K11DD
	94	(10 - 176)	9.9	(0-20)	SW846 6020	02/26-03/01/10	LV3K11DE
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Potassium	119	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11C0
	92	(70 - 130)	15	(0-20)	SW846 6020	02/26-03/01/10	LV3K11C1
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	96	(39 - 116)			SW846 6020	02/26-03/01/10	LV3K11DN
	85	(39 - 116)	11	(0-20)	SW846 6020	02/26-03/01/10	LV3K11DP
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Silver	98	(75 - 125)			SW846 6020	02/26-03/01/10	LV3K11AV
	98	(75 - 125)	0.08	(0-20)	SW846 6020	02/26-03/01/10	LV3K11AW
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Sodium	101	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11C9
	96	(70 - 130)	4.9	(0-20)	SW846 6020	02/26-03/01/10	LV3K11DA
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Thallium	91	(62 - 110)			SW846 6020	02/26-03/01/10	LV3K11AC
	85	(62 - 110)	6.7	(0-20)	SW846 6020	02/26-03/01/10	LV3K11AD
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Vanadium	115	(39 - 129)			SW846 6020	02/26-03/01/10	LV3K11AF
	82	(39 - 129)	9.8	(0-20)	SW846 6020	02/26-03/01/10	LV3K11AG
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Zinc	152	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11AJ
	131	(10 - 199)	4.7	(0-20)	SW846 6020	02/26-03/01/10	LV3K11AK
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #

MS Lot-Sample #: A0B250463-009 **Prep Batch #...:** 0057017
% Moisture.....: 24

Aluminum									
	15400	1320	19500	mg/kg			SW846 6020	02/26-03/01/10	LV3K11A0
			Qualifiers: NC,MSB						
	15400	1320	17500	mg/kg			SW846 6020	02/26-03/01/10	LV3K11A1
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Antimony									
	0.15	13.2	5.0 N	mg/kg	37		SW846 6020	02/26-03/01/10	LV3K11DK
	0.15	13.2	4.2 N	mg/kg	31	17	SW846 6020	02/26-03/01/10	LV3K11DL
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Arsenic									
	11.6	13.2	25.3	mg/kg	104		SW846 6020	02/26-03/01/10	LV3K11A3
	11.6	13.2	23.6	mg/kg	92	6.7	SW846 6020	02/26-03/01/10	LV3K11A4
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Barium									
	47.9	13.2	63.4	mg/kg	118		SW846 6020	02/26-03/01/10	LV3K11A6
	47.9	13.2	57.6	mg/kg	74	9.6	SW846 6020	02/26-03/01/10	LV3K11A7
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Beryllium									
	0.40	13.2	13.0	mg/kg	96		SW846 6020	02/26-03/01/10	LV3K11A9
	0.40	13.2	12.2	mg/kg	90	6.4	SW846 6020	02/26-03/01/10	LV3K11CA
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Cadmium									
	0.028	13.2	12.5	mg/kg	95		SW846 6020	02/26-03/01/10	LV3K11CG
	0.028	13.2	11.6	mg/kg	88	7.2	SW846 6020	02/26-03/01/10	LV3K11CH
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	542	1320	1790	mg/kg	95		SW846 6020	02/26-03/01/10	LV3K11CD
	542	1320	1810	mg/kg	96	0.87	SW846 6020	02/26-03/01/10	LV3K11CE
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Chromium									
	18.0	13.2	32.5	mg/kg	111		SW846 6020	02/26-03/01/10	LV3K11CN
	18.0	13.2	29.3	mg/kg	86	10	SW846 6020	02/26-03/01/10	LV3K11CP
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Cobalt									
	5.7	13.2	18.3	mg/kg	96		SW846 6020	02/26-03/01/10	LV3K11CK
	5.7	13.2	17.0	mg/kg	86	7.8	SW846 6020	02/26-03/01/10	LV3K11CL
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Copper									
	11.1	13.2	25.0	mg/kg	106		SW846 6020	02/26-03/01/10	LV3K11CR
	11.1	13.2	23.6	mg/kg	95	5.5	SW846 6020	02/26-03/01/10	LV3K11CT
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Iron									
	25200	1320	27700	mg/kg			SW846 6020	02/26-03/01/10	LV3K11CV
			Qualifiers: NC,MSB						
	25200	1320	24800	mg/kg			SW846 6020	02/26-03/01/10	LV3K11CW
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Lead									
	12.2	13.2	24.7	mg/kg	95		SW846 6020	02/26-03/01/10	LV3K11DG
	12.2	13.2	22.5	mg/kg	79	9.0	SW846 6020	02/26-03/01/10	LV3K11DH
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Magnesium									
	2660	1320	4290	mg/kg	124		SW846 6020	02/26-03/01/10	LV3K11C3
	2660	1320	3930	mg/kg	96	8.8	SW846 6020	02/26-03/01/10	LV3K11C4
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	184	13.2	219	mg/kg			SW846 6020	02/26-03/01/10	LV3K11C6
			Qualifiers: NC,MSB						
	184	13.2	204	mg/kg			SW846 6020	02/26-03/01/10	LV3K11C7
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Mercury									
	0.048	0.22	0.27	mg/kg	103		SW846 7471A	02/26-03/03/10	LV3K11AM
	0.048	0.22	0.25	mg/kg	93	8.0	SW846 7471A	02/26-03/03/10	LV3K11AN
			Dilution Factor: 1						
			Analysis Time..: 14:31		Instrument ID..: H1			Analyst ID.....: 001576	
Nickel									
	12.5	13.2	27.4	mg/kg	114		SW846 6020	02/26-03/01/10	LV3K11DD
	12.5	13.2	24.8	mg/kg	94	9.9	SW846 6020	02/26-03/01/10	LV3K11DE
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Potassium									
	923	1320	2480	mg/kg	119		SW846 6020	02/26-03/01/10	LV3K11C0
	923	1320	2130	mg/kg	92	15	SW846 6020	02/26-03/01/10	LV3K11C1
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Selenium									
	0.87	13.2	13.5	mg/kg	96		SW846 6020	02/26-03/01/10	LV3K11DN
	0.87	13.2	12.1	mg/kg	85	11	SW846 6020	02/26-03/01/10	LV3K11DP
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Silver									
	0.024	13.2	12.9	mg/kg	98		SW846 6020	02/26-03/01/10	LV3K11AV
	0.024	13.2	12.9	mg/kg	98	0.08	SW846 6020	02/26-03/01/10	LV3K11AW
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Sodium									
	103	1320	1440	mg/kg	101		SW846 6020	02/26-03/01/10	LV3K11C9
	103	1320	1370	mg/kg	96	4.9	SW846 6020	02/26-03/01/10	LV3K11DA
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250453 **Matrix.....:** SOLID
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium									
	0.20	13.2	12.1	mg/kg	91		SW846 6020	02/26-03/01/10	LV3K11AC
	0.20	13.2	11.3	mg/kg	85	6.7	SW846 6020	02/26-03/01/10	LV3K11AD
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Vanadium									
	30.1	13.2	45.2	mg/kg	115		SW846 6020	02/26-03/01/10	LV3K11AF
	30.1	13.2	41.0	mg/kg	82	9.8	SW846 6020	02/26-03/01/10	LV3K11AG
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Zinc									
	41.9	13.2	61.9	mg/kg	152		SW846 6020	02/26-03/01/10	LV3K11AJ
	41.9	13.2	59.1	mg/kg	131	4.7	SW846 6020	02/26-03/01/10	LV3K11AK
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

N Spiked analyte recovery is outside stated control limits.

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10303a.prn **Acceptable Range:** 90% - 110%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck5ICV 03/03/10 2:15 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.31	**92.2**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICV 03/01/10 8:09 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	400.0	413.80	**103.5**								
Antimony	121	80.0	81.50	**101.9**								
Arsenic	75	80.0	81.12	**101.4**								
Barium	137	80.0	81.68	**102.1**								
Beryllium	9	80.0	82.92	**103.6**								
Cadmium	111	80.0	83.82	**104.8**								
Calcium	43	40000.0	42126.67	**105.3**								
Chromium	52	80.0	83.64	**104.6**								
Cobalt	59	80.0	83.42	**104.3**								
Copper	65	80.0	84.01	**105.0**								
Iron	56	20000.0	20170.00	**100.9**								
Lead	208	80.0	80.69	**100.9**								
Magnesium	25	40000.0	41723.33	**104.3**								
Manganese	55	400.0	416.87	**104.2**								
Nickel	60	80.0	84.39	**105.5**								
Potassium	39	40000.0	40783.33	**102.0**								
Selenium	78	80.0	82.66	**103.3**								
Silver	107	80.0	84.46	**105.6**								
Sodium	23	40000.0	42020.00	**105.1**								
Thallium	205	80.0	82.82	**103.5**								
Vanadium	51	80.0	81.72	**102.2**								
Zinc	66	80.0	81.70	**102.1**								

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: hg10303a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck2CCV 03/03/10 2:24 PM Found	% Rec	Ck2CCV 03/03/10 2:38 PM Found	% Rec	Ck2CCV 03/03/10 2:52 PM Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.04	**100.8**	5.04	**100.8**	5.08	**101.6**				

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CCV 03/01/10 8:37 AM Found	% Rec	CCV 1 03/01/10 9:32 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	500.0	495.77	**99.2**	498.80	**99.8**						
Antimony	121	100.0	98.39	**98.4**	98.15	**98.2**						
Arsenic	75	100.0	99.92	**99.9**	100.93	**100.9**						
Barium	137	100.0	98.22	**98.2**	97.33	**97.3**						
Beryllium	9	100.0	95.41	**95.4**	97.43	**97.4**						
Cadmium	111	100.0	100.67	**100.7**	100.17	**100.2**						
Calcium	43	50000.0	50656.67	**101.3**	50326.67	**100.7**						
Chromium	52	100.0	98.52	**98.5**	98.64	**98.6**						
Cobalt	59	100.0	98.55	**98.6**	98.84	**98.8**						
Copper	65	100.0	99.56	**99.6**	101.37	**101.4**						
Iron	56	25000.0	24293.33	**97.2**	24760.00	**99.0**						
Lead	208	100.0	96.59	**96.6**	96.21	**96.2**						
Magnesium	25	50000.0	49730.00	**99.5**	49800.00	**99.6**						
Manganese	55	500.0	509.80	**102.0**	504.43	**100.9**						
Nickel	60	100.0	99.64	**99.6**	100.67	**100.7**						
Potassium	39	50000.0	49183.33	**98.4**	50320.00	**100.6**						
Selenium	78	100.0	101.17	**101.2**	101.77	**101.8**						
Silver	107	100.0	99.79	**99.8**	100.42	**100.4**						
Sodium	23	50000.0	49610.00	**99.2**	49270.00	**98.5**						
Thallium	205	100.0	99.70	**99.7**	99.56	**99.6**						
Vanadium	51	100.0	96.11	**96.1**	97.03	**97.0**						
Zinc	66	100.0	102.10	**102.1**	101.23	**101.2**						

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10303a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck3CRA\MRL 03/03/10 2:20 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	0.2	0.25	**125.1**								

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv **Acceptable Range:** 80% - 120%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CRIQ 03/01/10 8:23 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	60.0	53.60	**89.3**								
Antimony	121	2.0	1.91	**95.4**								
Arsenic	75	5.0	5.02	**100.3**								
Barium	137	5.0	4.66	**93.2**								
Beryllium	9	1.0	1.01	**100.7**								
Cadmium	111	2.0	1.94	**96.9**								
Calcium	43	2000.0	2078.33	**103.9**								
Chromium	52	2.0	1.94	**96.8**								
Cobalt	59	1.0	1.02	**102.0**								
Copper	65	4.0	4.45	**111.3**								
Iron	56	150.0	125.80	**83.9**								
Lead	208	1.0	0.94	**94.0**								
Magnesium	25	1000.0	1022.67	**102.3**								
Manganese	55	5.0	5.31	**106.3**								
Nickel	60	5.0	5.32	**106.5**								
Potassium	39	1000.0	968.63	**96.9**								
Selenium	78	5.0	5.47	**109.3**								
Silver	107	1.0	1.07	**106.6**								
Sodium	23	1000.0	991.93	**99.2**								
Thallium	205	2.0	1.97	**98.5**								
Vanadium	51	5.0	4.86	**97.2**								
Zinc	66	40.0	39.48	**98.7**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10303a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck4ICB 03/03/10 2:16 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	0.2	U								

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 03/01/10 8:14 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U								
Antimony	121	5	1.2	U								
Arsenic	75	5	1	U								
Barium	137	10	2.6	U								
Beryllium	9	1	0.07	U								
Cadmium	111	2	0.062	U								
Calcium	43	2000	800	U								
Chromium	52	5	3.2	U								
Cobalt	59	5	0.09	U								
Copper	65	5	2.2	U								
Iron	56	500	218	U								
Lead	208	3	1.4	U								
Magnesium	25	1000	178	U								
Manganese	55	10	3.2	U								
Nickel	60	10	1.7	U								
Potassium	39	1000	76	U								
Selenium	78	5	0.42	U								
Silver	107	5	0.052	U								
Sodium	23	1000	280	U								
Thallium	205	2	1.1	U								
Vanadium	51	10	0.86	U								
Zinc	66	40	20	U								

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10303a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck1CCB 03/03/10 2:25 PM Found	Q	Ck1CCB 03/03/10 2:39 PM Found	Q	Ck1CCB 03/03/10 2:53 PM Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	0.2	U	0.2	U	0.2	U				

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB 03/01/10 8:42 AM Found	Q	CCB 1 03/01/10 9:38 AM Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U	50	U						
Antimony	121	5	1.2	U	1.2	U						
Arsenic	75	5	1	U	1	U						
Barium	137	10	2.6	U	2.6	U						
Beryllium	9	1	0.07	U	0.07	U						
Cadmium	111	2	0.062	U	0.062	U						
Calcium	43	2000	800	U	800	U						
Chromium	52	5	3.2	U	3.2	U						
Cobalt	59	5	0.09	U	0.09	U						
Copper	65	5	2.2	U	2.2	U						
Iron	56	500	218	U	218	U						
Lead	208	3	1.4	U	1.4	U						
Magnesium	25	1000	178	U	178	U						
Manganese	55	10	3.2	U	3.2	U						
Nickel	60	10	1.7	U	1.7	U						
Potassium	39	1000	76	U	76	U						
Selenium	78	5	0.42	U	0.42	U						
Silver	107	5	0.052	U	0.052	U						
Sodium	23	1000	280	U	280	U						
Thallium	205	2	1.1	U	1.1	U						
Vanadium	51	10	0.86	U	0.86	U						
Zinc	66	40	20	U	20	U						

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 03/01/10 8:28 AM Found	Found	Found	Found	Found
Aluminum	27		50000	51400				
Antimony	121	5		0.140				
Arsenic	75	5		0.091				
Barium	137	10		0.700				
Beryllium	9	1		0.010				
Cadmium	111	2		0.027				
Calcium	43		50000	54900				
Chromium	52	5		0.510				
Cobalt	59	5		0.055				
Copper	65	5		0.260				
Iron	56		50000	50300				
Lead	208	3		0.086				
Magnesium	25		50000	52800				
Manganese	55	10		2				
Nickel	60	10		0.420				
Potassium	39	1000	50000	51600				
Selenium	78	5		0.076				
Silver	107	5		0.035				
Sodium	23	1000	50000	52100				
Thallium	205	2		0.071				
Vanadium	51	10		-0.400				
Zinc	66	40		-2.500				

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICSAB 03/01/10 8:32 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	50000	51306.7	**102.6**								
Antimony	121	100	100.4	**100.4**								
Arsenic	75	100	97.5	**97.5**								
Barium	137	100	99.9	**99.9**								
Beryllium	9	100	98.6	**98.6**								
Cadmium	111	100	101.1	**101.1**								
Calcium	43	50000	54230.0	**108.5**								
Chromium	52	100	104.0	**104.0**								
Cobalt	59	100	98.6	**98.6**								
Copper	65	100	99.1	**99.1**								
Iron	56	50000	51153.3	**102.3**								
Lead	208	100	99.1	**99.1**								
Magnesium	25	50000	52663.3	**105.3**								
Manganese	55	100	110.1	**110.1**								
Nickel	60	100	103.2	**103.2**								
Potassium	39	50000	51626.7	**103.3**								
Selenium	78	100	103.0	**103.0**								
Silver	107	100	99.9	**99.9**								
Sodium	23	50000	53396.7	**106.8**								
Thallium	205	100	102.8	**102.8**								
Vanadium	51	100	100.8	**100.8**								
Zinc	66	100	99.9	**99.9**								

N Spike recovery failed
NC Percent recovery was not calculated
U Result is less than the IDL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Units: mg/kg

Element	Reporting Limit	Raw Method Detection Limit
Aluminum	10	2.49
Antimony	0.5	0.0620
Arsenic	0.5	0.0522
Barium	1	0.13
Beryllium	0.1	0.0035
Cadmium	0.2	0.0031
Calcium	200	40.05
Chromium	0.5	0.16
Cobalt	0.5	0.0045
Copper	0.5	0.11
Iron	50	10.91
Lead	0.3	0.0705
Magnesium	100	8.90
Manganese	1	0.16
Mercury	0.1	0.014
Nickel	1	0.0864
Potassium	100	3.76
Selenium	0.5	0.0207
Silver	0.5	0.0026
Sodium	100	14.01
Thallium	0.2	0.0562
Vanadium	1	0.0432
Zinc	4	1.00

TestAmerica North Canton

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPMS **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	27.00	500000	09/30/09
Antimony	121.00	1000	09/30/09
Arsenic	75.00	10000	09/29/09
Barium	137.00	10000	09/29/09
Beryllium	9.00	10000	09/29/09
Cadmium	111.00	10000	09/29/09
Calcium	43.00	500000	09/30/09
Chromium	52.00	10000	09/29/09
Cobalt	59.00	10000	09/29/09
Copper	65.00	10000	09/29/09
Iron	56.00	500000	09/30/09
Lead	208.00	10000	09/29/09
Magnesium	25.00	350000	09/30/09
Manganese	55.00	10000	09/29/09
Nickel	60.00	10000	09/29/09
Potassium	39.00	350000	09/30/09
Selenium	78.00	10000	09/29/09
Silver	107.00	10000	09/29/09
Sodium	23.00	500000	09/30/09
Thallium	205.00	10000	09/29/09
Vanadium	51.00	10000	09/29/09
Zinc	66.00	10000	09/29/09

Batch Number: **0057017**

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: Lisa McGall (e-Signature)

Prep Date: 02/26/10
Due Date: 03/04/10

Lot	Work Order			ICP Weight	ICPMS Weight	Hg Weight
A0B260000 Solid	LV4H9	B	Due Date: SDG:		1.00 g	0.60 g
A0B260000 Solid	LV4H9	C	Due Date: SDG:		1.00 g	0.60 g
A0B250453 Solid	LV3H6 Total		Due Date: 03/04/10 SDG:		1.00 g	0.60 g
A0B250453 Solid	LV3JM Total		Due Date: 03/04/10 SDG:		1.00 g	0.60 g
A0B250453 Solid	LV3JV Total		Due Date: 03/04/10 SDG:		1.00 g	0.60 g
A0B250453 Solid	LV3JW Total		Due Date: 03/04/10 SDG:		1.00 g	0.60 g
A0B250453 Solid	LV3J1 Total		Due Date: 03/04/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3K1 Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3K1 Total	S	Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3K1 Total	D	Due Date: 03/18/10 SDG:		1.00 g	0.60 g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH	X
MS/MSD AND PDS ON BATCH	X
CORRECT SPIKES ADDED	X
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG	X

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

Unless otherwise noted, final volumes are as follows: Soils - 100 mL. Waters - ICP and ICPMS - 50 mL, Hg - 100 mL.

Low Level Hg: final volumes are 40 mL.

ICPMS ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN NA NI PB SB SE TL VX ZN

Matrix Spike Information:

LV3K1	Hg	ICPMS-1	ICPMS-2

Check Sample Information:

LV4H9	Hg	ICPMS-1	ICPMS-2

Prep Method(s): SW846 3050B, SW846 7471A

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	03-MAR-2010	14:08:32			H1
2	STD2REP1	1	03-MAR-2010	14:09:38			H1
3	STD3REP1	1	03-MAR-2010	14:10:45			H1
4	STD4REP1	1	03-MAR-2010	14:11:55			H1
5	STD5REP1	1	03-MAR-2010	14:13:06			H1
6	STD6REP1	1	03-MAR-2010	14:14:22			H1
7	CK5ICV	1	03-MAR-2010	14:15:44			H1
8	CK4ICB	1	03-MAR-2010	14:16:52			H1
9	CK3CRA\MRL	1	03-MAR-2010	14:17:58			H1
10	CK3CRA\MRL	1	03-MAR-2010	14:20:07			H1
11	CK2CCV	1	03-MAR-2010	14:24:08			H1
12	CK1CCB	1	03-MAR-2010	14:25:26			H1
13	LV4H9B	1	03-MAR-2010	14:26:33	0057017	A0B260000	H1
14	LV4H9C	1	03-MAR-2010	14:27:39	0057017	A0B260000	H1
15	LV3K1	1	03-MAR-2010	14:28:43	0057017	A0B250463	H1
16	LV3K1L	1	03-MAR-2010	14:29:49			H1
17	LV3K1S	1	03-MAR-2010	14:31:04	0057017	A0B250463	H1
18	LV3K1D	1	03-MAR-2010	14:32:11	0057017	A0B250463	H1
19	LV3J1	1	03-MAR-2010	14:33:16	0057017	A0B250453	H1
20	LV3JV	1	03-MAR-2010	14:34:35	0057017	A0B250453	H1
21	LV3JM	1	03-MAR-2010	14:35:43	0057017	A0B250453	H1
22	LV3H6	1	03-MAR-2010	14:36:48	0057017	A0B250453	H1
23	CK2CCV	1	03-MAR-2010	14:38:17			H1
24	CK1CCB	1	03-MAR-2010	14:39:26			H1
25	LV3JW	1	03-MAR-2010	14:40:34	0057017	A0B250453	H1
26	LV593B	1	03-MAR-2010	14:41:54	0060022	A0C010000	H1
27	LV593C	1	03-MAR-2010	14:43:13	0060022	A0C010000	H1
28	LV505	1	03-MAR-2010	14:44:21	0060022	A0B270425	H1
29	LV505S	1	03-MAR-2010	14:45:26	0060022	A0B270425	H1
30	LV505D	1	03-MAR-2010	14:46:34	0060022	A0B270425	H1
31	LV51H	1	03-MAR-2010	14:47:39	0060022	A0B270425	H1
32	LV51K	1	03-MAR-2010	14:48:45	0060022	A0B270425	H1
33	LV51C	1	03-MAR-2010	14:49:51	0060022	A0B270425	H1
34	LV51A	1	03-MAR-2010	14:50:57	0060022	A0B270425	H1
35	CK2CCV	1	03-MAR-2010	14:52:02			H1
36	CK1CCB	1	03-MAR-2010	14:53:18			H1
37	LV51F	1	03-MAR-2010	14:54:25	0060022	A0B270425	H1
38	LV509	1	03-MAR-2010	14:55:35	0060022	A0B270425	H1
39	LV4JCB	1	03-MAR-2010	14:56:44	0057019	A0B260000	H1
40	LV4JCC	1	03-MAR-2010	14:57:49	0057019	A0B260000	H1
41	LV3CK	1	03-MAR-2010	14:58:53	0057019	A0B250428	H1
42	LV3CKS	1	03-MAR-2010	15:00:00	0057019	A0B250428	H1
43	LV3CKD	1	03-MAR-2010	15:01:08	0057019	A0B250428	H1
44	LV3DC	1	03-MAR-2010	15:02:16	0057019	A0B250428	H1

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	LV3DE	1	03-MAR-2010	15:03:21	0057019	A0B250428	H1
46	LV3DA	1	03-MAR-2010	15:04:31	0057019	A0B250428	H1
47	CK2CCV	1	03-MAR-2010	15:05:36			H1
48	CK1CCB	1	03-MAR-2010	15:06:41			H1
49	LV3DH	1	03-MAR-2010	15:07:46	0057019	A0B250428	H1
50	LV591B	1	03-MAR-2010	15:09:12	0060020	A0C010000	H1
51	LV591C	1	03-MAR-2010	15:10:21	0060020	A0C010000	H1
52	LV41M	1	03-MAR-2010	15:11:28	0060020	A0B260454	H1
53	LV41ML	1	03-MAR-2010	15:12:36			H1
54	LV41MS	1	03-MAR-2010	15:14:12	0060020	A0B260454	H1
55	LV41MD	1	03-MAR-2010	15:15:31	0060020	A0B260454	H1
56	LV42P	1	03-MAR-2010	15:16:39	0060020	A0B260454	H1
57	LV421	1	03-MAR-2010	15:17:45	0060020	A0B260454	H1
58	LV414	1	03-MAR-2010	15:18:51	0060020	A0B260454	H1
59	CK2CCV	1	03-MAR-2010	15:20:06			H1
60	CK1CCB	1	03-MAR-2010	15:21:11			H1
61	LV41R	1	03-MAR-2010	15:22:26	0060020	A0B260454	H1
62	LV412	1	03-MAR-2010	15:23:33	0060020	A0B260454	H1
63	LV4X4	1	03-MAR-2010	15:24:50	0060020	A0B260445	H1
64	LV43E	1	03-MAR-2010	15:25:57	0060020	A0B260454	H1
65	LV42V	1	03-MAR-2010	15:27:03	0060020	A0B260454	H1
66	LV42W	1	03-MAR-2010	15:28:34	0060020	A0B260454	H1
67	LV41V	1	03-MAR-2010	15:29:43	0060020	A0B260454	H1
68	LV63FB	1	03-MAR-2010	15:31:19	0061015	A0C020000	H1
69	LV63FC	1	03-MAR-2010	15:32:34	0061015	A0C020000	H1
70	LV6T7	1	03-MAR-2010	15:33:55	0061015	A0C010456	H1
71	CK2CCV	1	03-MAR-2010	15:35:00			H1
72	CK1CCB	1	03-MAR-2010	15:36:05			H1
73	LV6T7S	1	03-MAR-2010	15:37:42	0061015	A0C010456	H1
74	LV6T7D	1	03-MAR-2010	15:38:58	0061015	A0C010456	H1
75	LV6VK	1	03-MAR-2010	15:40:06	0061015	A0C010456	H1
76	LV6WF	1	03-MAR-2010	15:41:13	0061015	A0C010456	H1
77	LV6VL	1	03-MAR-2010	15:42:22	0061015	A0C010456	H1
78	LV6VG	1	03-MAR-2010	15:43:39	0061015	A0C010456	H1
79	LV595B	1	03-MAR-2010	15:44:47	0060023	A0C010000	H1
80	LV595C	1	03-MAR-2010	15:46:07	0060023	A0C010000	H1
81	LV4V5	1	03-MAR-2010	15:47:15	0060023	A0B260437	H1
82	LV4V5S	1	03-MAR-2010	15:48:26	0060023	A0B260437	H1
83	CK2CCV	1	03-MAR-2010	15:49:35			H1
84	CK1CCB	1	03-MAR-2010	15:50:41			H1
85	LV4V5D	1	03-MAR-2010	15:51:56	0060023	A0B260437	H1
86	LV4V6	1	03-MAR-2010	15:53:05			H1
87	LV63HB	1	03-MAR-2010	15:54:13	0061016	A0C020000	H1
88	LV63HC	1	03-MAR-2010	15:55:20	0061016	A0C020000	H1

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	LV6JK	1	03-MAR-2010	15:56:27	0061016	A0C010410	H1
90	LV6JKS	1	03-MAR-2010	15:57:33	0061016	A0C010410	H1
91	LV6JKD	1	03-MAR-2010	15:59:01	0061016	A0C010410	H1
92	LV6JM	1	03-MAR-2010	16:00:09	0061016	A0C010410	H1
93	LV6JJ	1	03-MAR-2010	16:01:15	0061016	A0C010410	H1
94	LV6HT	1	03-MAR-2010	16:02:23	0061016	A0C010410	H1
95	CK2CCV	1	03-MAR-2010	16:03:39			H1
96	CK1CCB	1	03-MAR-2010	16:04:45			H1
97	LV6HN	1	03-MAR-2010	16:06:21	0061016	A0C010410	H1
98	LV6JE	1	03-MAR-2010	16:07:27	0061016	A0C010410	H1
99	LV6JA	1	03-MAR-2010	16:08:43	0061016	A0C010410	H1
100	LV6HR	1	03-MAR-2010	16:09:51	0061016	A0C010410	H1
101	LV6JQ	1	03-MAR-2010	16:10:59	0061016	A0C010410	H1
102	LV6H8	1	03-MAR-2010	16:12:06	0061016	A0C010410	H1
103	LV6HL	1	03-MAR-2010	16:13:18	0061016	A0C010410	H1
104	LV6HP	1	03-MAR-2010	16:14:28	0061016	A0C010410	H1
105	LV6HV	1	03-MAR-2010	16:15:44	0061016	A0C010410	H1
106	LV6JH	1	03-MAR-2010	16:16:50	0061016	A0C010410	H1
107	CK2CCV	1	03-MAR-2010	16:17:57			H1
108	CK1CCB	1	03-MAR-2010	16:19:16			H1
109	LV6HX	1	03-MAR-2010	16:20:28	0061016	A0C010410	H1
110	LV6HJ	1	03-MAR-2010	16:21:35	0061016	A0C010410	H1
111	LV6JR	1	03-MAR-2010	16:22:46	0061016	A0C010410	H1
112	LV6JD	1	03-MAR-2010	16:23:57	0061016	A0C010410	H1
113	CK2CCV	1	03-MAR-2010	16:25:03			H1
114	CK1CCB	1	03-MAR-2010	16:26:08			H1

End of Report

```
:       Instrument Upload                                    Run Log - Page  1 :
:       Started Tue Mar  2 05:31:35 2010 by COUNTSK                            :
:       Data File: UPL$CAN_DATA_ROOT:<REP>I80301A.CSV;1                        :
```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1	1	01-MAR-2010	07:51:01			I8
2	STD2	1	01-MAR-2010	07:55:30			I8
3	STD3	1	01-MAR-2010	08:00:07			I8
4	STD4	1	01-MAR-2010	08:05:05			I8
5	ICV	1	01-MAR-2010	08:09:35			I8
6	ICB	1	01-MAR-2010	08:14:18			I8
7	CRI	1	01-MAR-2010	08:18:49			I8
8	CRIQ	1	01-MAR-2010	08:23:27			I8
9	ICSA	1	01-MAR-2010	08:28:00			I8
10	ICSAB	1	01-MAR-2010	08:32:34			I8
11	CCV	1	01-MAR-2010	08:37:21			I8
12	CCB	1	01-MAR-2010	08:42:22			I8
13	LV4H9B	1	01-MAR-2010	08:46:52	0057017	A0B260000	I8
14	LV4H9C	1	01-MAR-2010	08:51:22	0057017	A0B260000	I8
15	LV3H6	1	01-MAR-2010	08:56:05	0057017	A0B250453	I8
16	LV3JM	1	01-MAR-2010	09:00:37	0057017	A0B250453	I8
17	LV3JV	1	01-MAR-2010	09:05:07	0057017	A0B250453	I8
18	LV3JW	1	01-MAR-2010	09:09:43	0057017	A0B250453	I8
19	LV3J1	1	01-MAR-2010	09:14:14	0057017	A0B250453	I8
20	LV4H5B	1	01-MAR-2010	09:18:54	0057014	A0B260000	I8
21	LV4H5C	1	01-MAR-2010	09:23:26	0057014	A0B260000	I8
22	LV30J	1	01-MAR-2010	09:28:22	0057014	A0B250520	I8
23	CCV	1	01-MAR-2010	09:32:53			I8
24	CCB	1	01-MAR-2010	09:38:10			I8
25	LV3K1	1	01-MAR-2010	09:42:45	0057017	A0B250463	I8
26	LV3K1L	1	01-MAR-2010	09:47:19			I8
27	LV3K1A	1	01-MAR-2010	09:51:55	0057017	A0B250463	I8
28	LV3K1S	10	01-MAR-2010	09:56:24	0057017	A0B250463	I8
29	LV3K1D	10	01-MAR-2010	10:00:54	0057017	A0B250463	I8
30	LV3P4	1	01-MAR-2010	10:05:24	0057014	A0B250481	I8
31	LV3P4L	1	01-MAR-2010	10:09:59			I8
32	LV31D	1	01-MAR-2010	10:14:30	0057014	A0B250520	I8
33	LV31H	1	01-MAR-2010	10:19:01	0057014	A0B250520	I8
34	LV31K	1	01-MAR-2010	10:23:32	0057014	A0B250520	I8
35	CCV	1	01-MAR-2010	10:28:03			I8
36	CCB	1	01-MAR-2010	10:33:18			I8
37	LV4H5B	1	01-MAR-2010	10:37:53	0057014	A0B260000	I8
38	CCV	1	01-MAR-2010	10:42:25			I8
39	CCB	1	01-MAR-2010	10:47:55			I8
40	LV31M	1	01-MAR-2010	10:52:26	0057014	A0B250520	I8
41	LV31T	1	01-MAR-2010	10:57:12	0057014	A0B250520	I8
42	LV31V	1	01-MAR-2010	11:01:45	0057014	A0B250520	I8
43	LV31W	1	01-MAR-2010	11:06:18	0057014	A0B250520	I8
44	LV31WS	1	01-MAR-2010	11:10:51	0057014	A0B250520	I8

(continued)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

INSTRUMENT PRINTOUTS

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information

Run Date: 3-3-10 Analyst: RK Instrument: 1H1

Prep Batches Run: See Run Log

Circle Methods used: 7470A / 245.1 : CORP-MT-0005 Rev 1 (7471: CORP-MT-0007 Rev 1)

Review Items	Yes	No	N/A	2nd Level
A. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other			✓	
1. Are all nonconformances documented appropriately?	✓			✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I Analyst: Roger K. Jost Date/Time: 3-4-10

Level I Analyst: _____ Date/Time: _____

Comments: _____

2nd Level Reviewer: Natalie Musselman Date/Time: 3-4-10

2nd Level Reviewer: _____ Date/Time: _____

Comments: _____

Curve Prepared Date: 3-3-10 Time: 0830

ICV CPI 09K153 $SnCl_2$ OMR129

CAL/CCV HPS09281O6 NACL $NH_2OH{\cdot}HCL$ OMR138

Revised 01/03/2008

```
*** Standard: 1 Rep: 1              Seq:  0      14:08:32 03 Mar 2010 HG

Hg    .0000   ppb      1799

*** Standard: 2 Rep: 1              Seq:  1      14:09:38 03 Mar 2010 HG

Hg    .2000   ppb      8660

*** Standard: 3 Rep: 1              Seq:  2      14:10:45 03 Mar 2010 HG

Hg    .5000   ppb      17996

*** Standard: 4 Rep: 1              Seq:  3      14:11:55 03 Mar 2010 HG

Hg    1.000   ppb      39016
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 5 Rep: 1 Seq: 4 14:13:06 03 Mar 2010 HG

Hg 5.000 ppb 187796

*** Standard: 6 Rep: 1 Seq: 5 14:14:22 03 Mar 2010 HG

Hg 10.00 ppb 368658

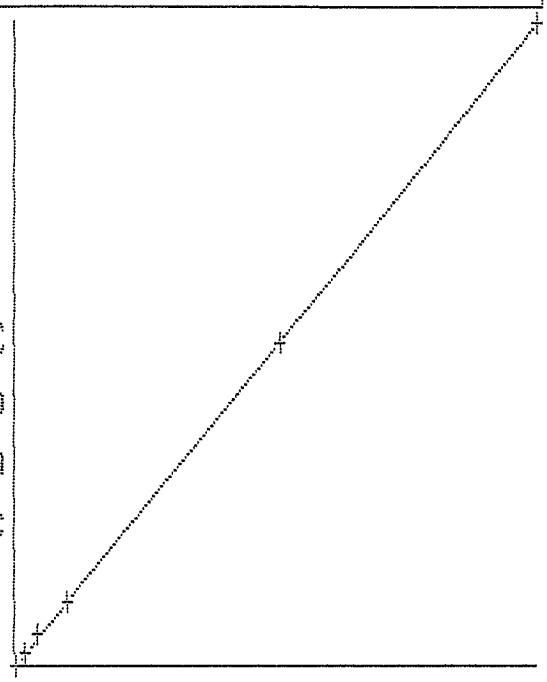
```
RunProt: HGPPB      Hg analysis in the ppb range
RunFold: HG103003A Seq: 6    Batch:
                 Prnt: R/T On                    Pump: On
                 Rev: 4.2                        Xmit: Off Gas:    1.00 LPM
State: Idle      Macro HG        59: F3 Print    User: SMI         A/S: On
```

CALIBRATION: Line proto: HGPPB

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.0000	.0004	.0004	Quadratic
S2	.2000	.1947	-.0053	Wtdlinear
S3	.5000	.4482	-.0518	
S4	1.000	1.019	.0190	Accept
S5	5.000	5.059	.0592	
S6	10.00	9.970	-.0295	

A .00000000 r .999953

B 2.71550e-5 C -4.04480e-2



	Mean		
S1	1799	0 SD	1799
S2	8660	0 %RSD	8660
S3	17996	0 %RSD	17996
S4	39016	0 %RSD	39016
S5	187796	0 %RSD	187796
S6	368658	0 %RSD	368658

New cal coefficients stored

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 5 Ck5ICV Seq: 6 14:15:44 03 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 92.25 2.306 2.500 ppb .0000 %

*** Check Standard: 4 Ck4ICB Seq: 7 14:16:52 03 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg -90570 -.0091 .0000 ppb .0000 %

Re-analyze →
*** Check Standard: 3 Ck3CRA\MRL Seq: 8 14:17:58 03 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg L 18.16 .0363 .2000 ppb .0000 %

*** Check Standard: 3 Ck3CRA\MRL Seq: 9 14:20:07 03 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 125.0 .2501 .2000 ppb .0000 %

*** Check Standard: 2 Ck2CCV Seq: 10 14:24:08 03 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 100.8 5.041 5.000 ppb .0000 %

*** Check Standard: 1 Ck1CCB Seq: 11 14:25:26 03 Mar 2010 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .0358 .2000 ppb .0000 %

*** Sample ID: LV4H9B Seq: 12 14:26:33 03 Mar 2010 HG
0057017
Hg .0068 ppb .0000 % .0068

*** Sample ID: LV4H9C Seq: 13 14:27:39 03 Mar 2010 HG
SOLID
Hg 4.887 ppb .0000 % 4.887

*** Sample ID: LV3K1 Seq: 14 14:28:43 03 Mar 2010 HG
SOLID
Hg .2190 ppb .0000 % .2190

*** Sample ID: LV3K1L Seq: 15 14:29:49 03 Mar 2010 HG
SOLID
Hg .0240 ppb .0000 % .0240

*** Sample ID: LV3K1S Seq: 16 14:31:04 03 Mar 2010 HG
SOLID
Hg 1.244 ppb .0000 % 1.244

*** Sample ID: LV3K1D Seq: 17 14:32:11 03 Mar 2010 HG
SOLID
Hg 1.148 ppb .0000 % 1.148

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV3J1 Seq: 18 14:33:16 03 Mar 2010 HG

SOLID

Hg .0724 ppb .0000 % .0724

*** Sample ID: LV3JV Seq: 19 14:34:35 03 Mar 2010 HG

SOLID

Hg .0375 ppb .0000 % .0375

*** Sample ID: LV3JM Seq: 20 14:35:43 03 Mar 2010 HG

SOLID

Hg .0457 ppb .0000 % .0457

*** Sample ID: LV3H6 Seq: 21 14:36:48 03 Mar 2010 HG

SOLID

Hg .0520 ppb .0000 % .0520

*** Check Standard: 2 Ck2CCV Seq: 22 14:38:17 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.8	5.042	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 23 14:39:26 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0414	.2000	ppb	.0000 %

*** Sample ID: LV3JW Seq: 24 14:40:34 03 Mar 2010 HG

SOLID

Hg .0781 ppb .0000 % .0781

*** Sample ID: LV593B Seq: 25 14:41:54 03 Mar 2010 HG

0060022

Hg -.0441 ppb .0000 % -.0441

*** Sample ID: LV593C Seq: 26 14:43:13 03 Mar 2010 HG

SOLID

Hg 4.638 ppb .0000 % 4.638

*** Sample ID: LV505 Seq: 27 14:44:21 03 Mar 2010 HG

SOLID

Hg .1112 ppb .0000 % .1112

*** Sample ID: LV505S Seq: 28 14:45:26 03 Mar 2010 HG

SOLID

Hg 1.059 ppb .0000 % 1.059

*** Sample ID: LV505D Seq: 29 14:46:34 03 Mar 2010 HG

SOLID

Hg 1.148 ppb .0000 % 1.148

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV51H Seq: 30 14:47:39 03 Mar 2010 HG

SOLID

Hg .1284 ppb .0000 % .1284

*** Sample ID: LV51K Seq: 31 14:48:45 03 Mar 2010 HG

SOLID

Hg .0911 ppb .0000 % .0911

*** Sample ID: LV51C Seq: 32 14:49:51 03 Mar 2010 HG

SOLID

Hg 1.745 ppb .0000 % 1.745

*** Sample ID: LV51A Seq: 33 14:50:57 03 Mar 2010 HG

SOLID

Hg .1134 ppb .0000 % .1134

*** Check Standard: 2 Ck2CCV Seq: 34 14:52:02 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.6	5.082	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 35 14:53:18 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0107	.2000	ppb	.0000 %

*** Sample ID: LV51F Seq: 36 14:54:25 03 Mar 2010 HG

SOLID

Hg .0418 ppb .0000 % .0418

*** Sample ID: LV509 Seq: 37 14:55:35 03 Mar 2010 HG

SOLID

Hg .4885 ppb .0000 % .4885

*** Sample ID: LV4JCB Seq: 38 14:56:44 03 Mar 2010 HG

0057019

Hg .0155 ppb .0000 % .0155

*** Sample ID: LV4JCC Seq: 39 14:57:49 03 Mar 2010 HG

SOLID

Hg 4.939 ppb .0000 % 4.939

*** Sample ID: LV3CK Seq: 40 14:58:53 03 Mar 2010 HG

SOLID

Hg .0184 ppb .0000 % .0184

*** Sample ID: LV3CKS Seq: 41 15:00:00 03 Mar 2010 HG

SOLID

Hg .9861 ppb .0000 % .9861

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV3CKD Seq: 42 15:01:08 03 Mar 2010 HG

SOLID

Hg	1.020	ppb	.0000 %	1.020				

*** Sample ID: LV3DC Seq: 43 15:02:16 03 Mar 2010 HG

SOLID

Hg	.1074	ppb	.0000 %	.1074				

*** Sample ID: LV3DE Seq: 44 15:03:21 03 Mar 2010 HG

SOLID

Hg	1.219	ppb	.0000 %	1.219				

*** Sample ID: LV3DA Seq: 45 15:04:31 03 Mar 2010 HG

SOLID

Hg	.1465	ppb	.0000 %	.1465				

*** Check Standard: 2 Ck2CCV Seq: 46 15:05:36 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.92	4.996	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 47 15:06:41 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0072	.2000	ppb	.0000 %

*** Sample ID: LV3DH Seq: 48 15:07:46 03 Mar 2010 HG

SOLID

Hg	.3217	ppb	.0000 %	.3217				

*** Sample ID: LV591B Seq: 49 15:09:12 03 Mar 2010 HG

0060020

Hg	-.0294	ppb	.0000 %	-.0294				

*** Sample ID: LV591C Seq: 50 15:10:21 03 Mar 2010 HG

SOLID

Hg	4.824	ppb	.0000 %	4.824				

*** Sample ID: LV41M Seq: 51 15:11:28 03 Mar 2010 HG

SOLID

Hg	.1239	ppb	.0000 %	.1239				

*** Sample ID: LV41ML Seq: 52 15:12:36 03 Mar 2010 HG

SOLID

Hg	-.0240	ppb	.0000 %	-.0240				

*** Sample ID: LV41MS Seq: 53 15:14:12 03 Mar 2010 HG

SOLID

Hg	1.069	ppb	.0000 %	1.069				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV41MD Seq: 54 15:15:31 03 Mar 2010 HG

SOLID

Hg 1.042 ppb .0000 % 1.042

*** Sample ID: LV42P Seq: 55 15:16:39 03 Mar 2010 HG

SOLID

Hg .0335 ppb .0000 % .0335

*** Sample ID: LV421 Seq: 56 15:17:45 03 Mar 2010 HG

SOLID

Hg .1877 ppb .0000 % .1877

*** Sample ID: LV414 Seq: 57 15:18:51 03 Mar 2010 HG

SOLID

Hg .0989 ppb .0000 % .0989

*** Check Standard: 2 Ck2CCV Seq: 58 15:20:06 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.9	5.095	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 59 15:21:11 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0122	.2000	ppb	.0000 %

*** Sample ID: LV41R Seq: 60 15:22:26 03 Mar 2010 HG

SOLID

Hg .0571 ppb .0000 % .0571

*** Sample ID: LV412 Seq: 61 15:23:33 03 Mar 2010 HG

SOLID

Hg .0686 ppb .0000 % .0686

*** Sample ID: LV4X4 Seq: 62 15:24:50 03 Mar 2010 HG

SOLID

Hg .0103 ppb .0000 % .0103

*** Sample ID: LV43E Seq: 63 15:25:57 03 Mar 2010 HG

SOLID

Hg .0617 ppb .0000 % .0617

*** Sample ID: LV42V Seq: 64 15:27:03 03 Mar 2010 HG

SOLID

Hg .0196 ppb .0000 % .0196

*** Sample ID: LV42W Seq: 65 15:28:34 03 Mar 2010 HG

SOLID

Hg .0133 ppb .0000 % .0133

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV41V Seq: 66 15:29:43 03 Mar 2010 HG

SOLID

Hg .0625 ppb .0000 % .0625

*** Sample ID: LV63FB Seq: 67 15:31:19 03 Mar 2010 HG

0061015

Hg -.0131 ppb .0000 % -.0131

*** Sample ID: LV63FC Seq: 68 15:32:34 03 Mar 2010 HG

SOLID

Hg 4.810 ppb .0000 % 4.810

*** Sample ID: LV6T7 Seq: 69 15:33:55 03 Mar 2010 HG

SOLID

Hg -.0045 ppb .0000 % -.0045

*** Check Standard: 2 Ck2CCV Seq: 70 15:35:00 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.5	5.027	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 71 15:36:05 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0346	.2000	ppb	.0000 %

*** Sample ID: LV6T7S Seq: 72 15:37:42 03 Mar 2010 HG

SOLID

Hg .9541 ppb .0000 % .9541

*** Sample ID: LV6T7D Seq: 73 15:38:58 03 Mar 2010 HG

SOLID

Hg .9169 ppb .0000 % .9169

*** Sample ID: LV6VK Seq: 74 15:40:06 03 Mar 2010 HG

SOLID

Hg .1215 ppb .0000 % .1215

*** Sample ID: LV6WF Seq: 75 15:41:13 03 Mar 2010 HG

SOLID

Hg .0552 ppb .0000 % .0552

*** Sample ID: LV6VL Seq: 76 15:42:22 03 Mar 2010 HG

SOLID

Hg .0601 ppb .0000 % .0601

*** Sample ID: LV6VG Seq: 77 15:43:39 03 Mar 2010 HG

SOLID

Hg -.0084 ppb .0000 % -.0084

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV595B Seq: 78 15:44:47 03 Mar 2010 HG
0060023
Hg .0202 ppb .0000 % .0202

*** Sample ID: LV595C Seq: 79 15:46:07 03 Mar 2010 HG
SOLID
Hg 4.822 ppb .0000 % 4.822

*** Sample ID: LV4V5 Seq: 80 15:47:15 03 Mar 2010 HG
SOLID
Hg -.0817 ppb .0000 % -.0817

*** Sample ID: LV4V5S Seq: 81 15:48:26 03 Mar 2010 HG
SOLID
Hg .7680 ppb .0000 % .7680

*** Check Standard: 2 Ck2CCV Seq: 82 15:49:35 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.5	5.027	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 83 15:50:41 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0088	.2000	ppb	.0000 %

*** Sample ID: LV4V5D Seq: 84 15:51:56 03 Mar 2010 HG
SOLID
Hg .8360 ppb .0000 % .8360

Cancelled.
*** Sample ID: LV4V6 Seq: 85 15:53:05 03 Mar 2010 HG
SOLID
→ Hg -.0173 ppb .0000 % -.0173

*** Sample ID: LV63HB Seq: 86 15:54:13 03 Mar 2010 HG
0061016
Hg .0050 ppb .0000 % .0050

*** Sample ID: LV63HC Seq: 87 15:55:20 03 Mar 2010 HG
SOLID
Hg 4.968 ppb .0000 % 4.968

*** Sample ID: LV6JK Seq: 88 15:56:27 03 Mar 2010 HG
SOLID
Hg -.0583 ppb .0000 % -.0583

*** Sample ID: LV6JKS Seq: 89 15:57:33 03 Mar 2010 HG
SOLID
Hg .9304 ppb .0000 % .9304

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV6JKD Seq: 90 15:59:01 03 Mar 2010 HG
SOLID
Hg 1.010 ppb .0000 % 1.010

*** Sample ID: LV6JM Seq: 91 16:00:09 03 Mar 2010 HG
SOLID
Hg -.0050 ppb .0000 % -.0050

*** Sample ID: LV6JJ Seq: 92 16:01:15 03 Mar 2010 HG
SOLID
Hg .0112 ppb .0000 % .0112

*** Sample ID: LV6HT Seq: 93 16:02:23 03 Mar 2010 HG
SOLID
Hg .0809 ppb .0000 % .0809

*** Check Standard: 2 Ck2CCV Seq: 94 16:03:39 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.7	5.034	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 95 16:04:45 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0553	.2000	ppb	.0000 %

*** Sample ID: LV6HN Seq: 96 16:06:21 03 Mar 2010 HG
SOLID
Hg -.0257 ppb .0000 % -.0257

*** Sample ID: LV6JE Seq: 97 16:07:27 03 Mar 2010 HG
SOLID
Hg -.0456 ppb .0000 % -.0456

*** Sample ID: LV6JA Seq: 98 16:08:43 03 Mar 2010 HG
SOLID
Hg -.0016 ppb .0000 % -.0016

*** Sample ID: LV6HR Seq: 99 16:09:51 03 Mar 2010 HG
SOLID
Hg -.0322 ppb .0000 % -.0322

*** Sample ID: LV6JQ Seq: 100 16:10:59 03 Mar 2010 HG
SOLID
Hg -.0366 ppb .0000 % -.0366

*** Sample ID: LV6H8 Seq: 101 16:12:06 03 Mar 2010 HG
SOLID
Hg .0113 ppb .0000 % .0113

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV6HL Seq: 102 16:13:18 03 Mar 2010 HG
SOLID
Hg -.0131 ppb .0000 % -.0131

*** Sample ID: LV6HP Seq: 103 16:14:28 03 Mar 2010 HG
SOLID
Hg -.0041 ppb .0000 % -.0041

*** Sample ID: LV6HV Seq: 104 16:15:44 03 Mar 2010 HG
SOLID
Hg -.0183 ppb .0000 % -.0183

*** Sample ID: LV6JH Seq: 105 16:16:50 03 Mar 2010 HG
SOLID
Hg -.0116 ppb .0000 % -.0116

*** Check Standard: 2 Ck2CCV Seq: 106 16:17:57 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.2	5.061	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 107 16:19:16 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0177	.2000	ppb	.0000 %

*** Sample ID: LV6HX Seq: 108 16:20:28 03 Mar 2010 HG
SOLID
Hg .0154 ppb .0000 % .0154

*** Sample ID: LV6HJ Seq: 109 16:21:35 03 Mar 2010 HG
SOLID
Hg .0121 ppb .0000 % .0121

*** Sample ID: LV6JR Seq: 110 16:22:46 03 Mar 2010 HG
SOLID
Hg -.0282 ppb .0000 % -.0282

*** Sample ID: LV6JD Seq: 111 16:23:57 03 Mar 2010 HG
SOLID
Hg -.0192 ppb .0000 % -.0192

*** Check Standard: 2 Ck2CCV Seq: 112 16:25:03 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.59	4.979	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 113 16:26:08 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0364	.2000	ppb	.0000 %

STD2/CCV STD OB97 ICSA STD OB51 CRI STD OA30
STD3 STD OB59 ICSAB STD OA31
STD4 STD OB60 ICV STD 91649 DIL BLK DMR121
QSMCRI OA40

Test America North Canton ICP/MS Data Review Checklist

Run/Project Information:

Run Date: 3-1-10 Analyst: KLL Instrument: I8
Prep Batches Run: See Run Log

Circle Methods used: 6020/ 200.8: CORP-MT-0001NC

Review Items

A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
2. Performance check within recommended specfications?.(Be>8000cps) (In >300,000 cps) (Pb >100,000 cps) (Co>100000cps) (Mg>10000cps) (CeO/Ce ≤ 0.03) (Ba++/Ba+ ≤ 0.03)(Background < 30cps @ Mass 220) CCT Performance Check (In>75000cps) (Se<20 cps)	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? Correlation coefficient ≥ .995 ?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? *(ICV:* = 90 – 110%) *(CCV: 90 – 110%,* 200.8 = 85 -115% *)*	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%)?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed ?	✓			✓
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time ?	✓			✓
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits ?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits ?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits ?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
E. Other				
1. Are all nonconformances documented appropriately ?	✓			✓
2. Current IDL/LR data on file ?	✓			✓
3. Calculations checked for error ?	✓			✓
4. Transcriptions checked for error ?	✓			✓
5. All client/project specific requirements met ?	✓			✓
6. Date/time of analysis verified as correct ?	✓			

Level I Analyst: Karen K Counts Date: 3-2-10 Time: 7:51-14:14
Level I Analyst: Date: Time:

Level II Reviewer: Date: 3.2.10 Time: 7:51-14:14
Level II Reviewer: Date: Time:

Comments:

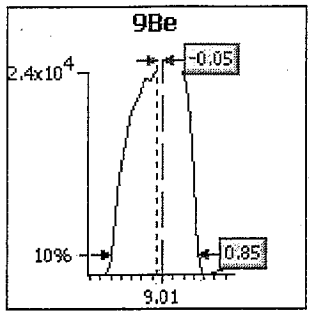
N:/Metals/ICPMS /Data Review Checklist
Rev. 1, 09/21/2007

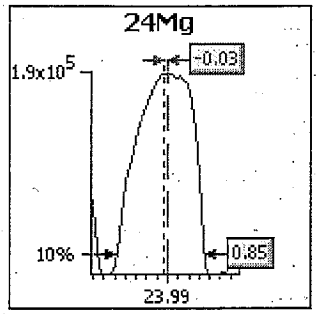
Performance Report

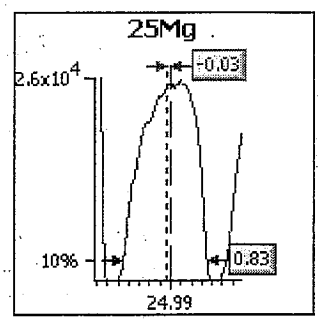
Sample details
Acquired at : 3/1/2010 07:41:09
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

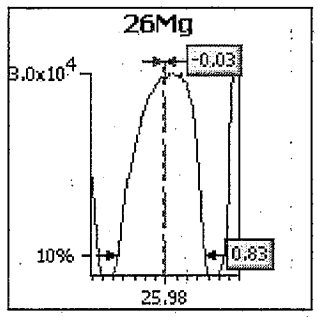
Mass Calibration verification

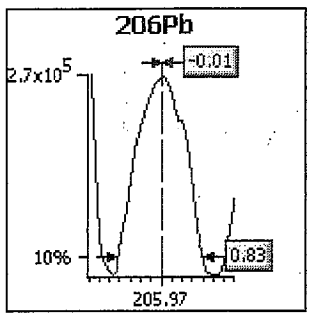
Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 10% of the peak maximum

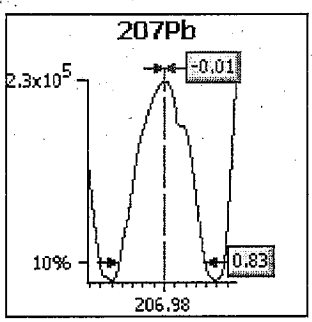


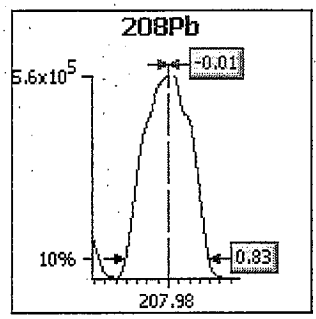












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.85	-0.05
24Mg	0.85	0.65	0.10	0.85	-0.03
25Mg	0.85	0.65	0.10	0.83	-0.03
26Mg	0.85	0.65	0.10	0.83	-0.03
206Pb	0.85	0.65	0.10	0.83	-0.01
207Pb	0.85	0.65	0.10	0.83	-0.01
208Pb	0.85	0.65	0.10	0.83	-0.01

Sample details
Acquired at : 3/1/2010 07:41:09
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Tune conditions

Major	
Extraction	-113.7
Lens 1	-1208
Lens 2	-80.0
Focus	12.4
D1	-47.1
D2	-140
Pole Bias	0.1
Hexapole Bias	-4.0
Nebuliser	0.81

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	60
Vertical	350
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1550
PC Detector	3225

Add. Gases	
He_H2	0.00
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	137Ba++	101Bkg	115In
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0	10.0
Limits	%RSD	-	5.0%	-	5.0%	-	5.0%	-	-	5.0%
	Countrate	-	>8000	>10000	>10000	>10000	>100000	-	-	>300000
1	07:41:43	0.000	25582.953	183952.92	25279.157	29439.311	353142.06	1775.650	8.000	833685.51
2	07:42:01	0.000	25015.426	182069.07	24788.420	29819.986	355508.24	1703.420	8.667	835289.57
3	07:42:19	0.000	25706.476	180505.54	25092.208	29873.415	355484.40	1751.203	7.667	838697.83
4	07:42:37	0.000	26050.343	182918.29	24915.276	30277.477	352168.45	1686.752	9.000	834326.42
5	07:42:55	0.000	25279.157	181118.80	24938.644	29238.958	353724.21	1745.647	13.333	840116.68
x		0.000	25526.871	182112.93	25002.741	29729.830	354005.47	1732.535	9.333	836423.20
σ		0.00	397.61	1379.14	188.48	404.36	1470.10	36.48	2.30	2828.09
%RSD		0.000	1.558	0.757	0.754	1.360	0.415	2.106	24.614	0.338

Run	Time	137Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	-	-	-	-	-	5.0%	-
	Countrate	-	-	-	>100000	>100000	>100000	<30
1	07:41:43	93397.629	783793.22	17898.494	277233.40	226319.59	562835.72	0.000
2	07:42:01	93655.738	785259.89	19979.746	280321.07	227167.68	559944.06	0.000
3	07:42:19	93977.542	791127.86	18746.092	276982.61	226961.56	563931.85	0.000
4	07:42:37	93561.880	786436.82	19767.271	278294.19	225795.89	557662.78	0.000
5	07:42:55	95160.895	792036.18	19255.561	277128.34	229201.91	568823.96	0.000
x		93950.737	787730.79	19129.433	277991.92	227089.32	562639.67	0.000
σ		708.76	3652.42	837.85	1401.44	1299.13	4242.32	0.00
%RSD		0.754	0.464	4.380	0.504	0.572	0.754	0.000

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0300
1	07:41:43	0.019	0.023
2	07:42:01	0.018	0.025
3	07:42:19	0.019	0.024
4	07:42:37	0.018	0.025
5	07:42:55	0.018	0.024
x		0.0184	0.0243
σ		0.00	0.00
%RSD		2.1121	4.3743

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 3/1/2010 07:44:32
Report name : CCT MODE PERF REPORT [5/14/2008 11:21:44]

Tune conditions

Major	
Extraction	-109.8
Lens 1	-1200
Lens 2	-80.0
Focus	1.8
D1	-49.4
D2	-140
Pole Bias	-14.0
Hexapole Bias	-17.0
Nebuliser	0.81

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	60
Vertical	350
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1550
PC Detector	3225

Add. Gases	
He_H2	2.12
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	78Se	115In
Dwell (mSecs)		500.0	10.0
Limits	%RSD	-	5.0%
	Countrate	<20	>75000
1	07:44:33	14.600	119476.71
2	07:44:50	14.133	119120.84
3	07:45:08	14.600	118335.28
4	07:45:25	15.933	119315.56
5	07:45:43	13.933	119177.92
x		14.640	119085.26
σ		0.78	441.19
%RSD		5.326	0.370

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA NORTH CANTON_QSM 3.0.tet
Created By User	martin.nash
Analyte Database	TA NORTH CANTON MULTIMODE.tea
Creation Timestamp	10/10/2007 09:08:48
Last Edited By	Upload
Last Edit Timestamp	3/1/2010 07:49:32
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

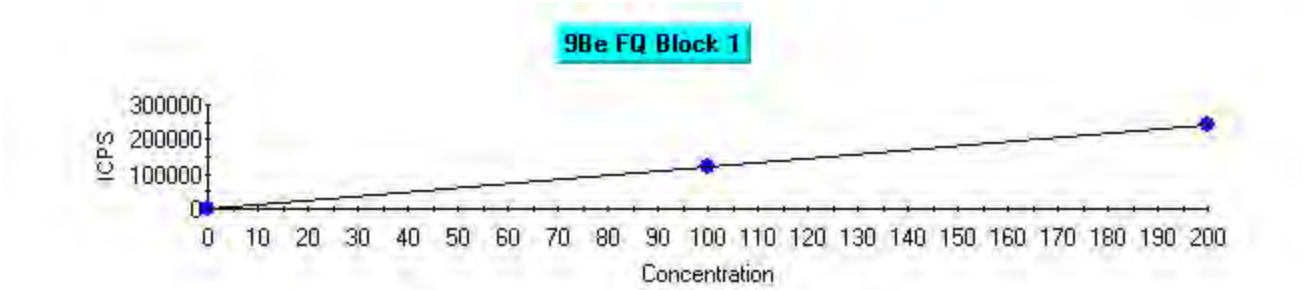
Column headings
- No flag
- Semi Quant
- Standard Addition
- Multi Element

Result cells
- Internal Standard
- Excluded
- QC Warning
- QC Failure

Transient TRA only:
- Peak Not Found
- Manually Edited
- Merged Peak

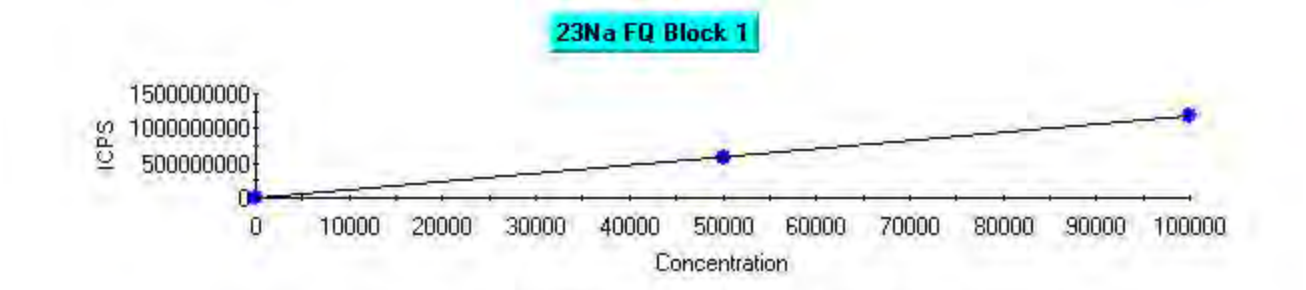
Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Fully Quant Calibration



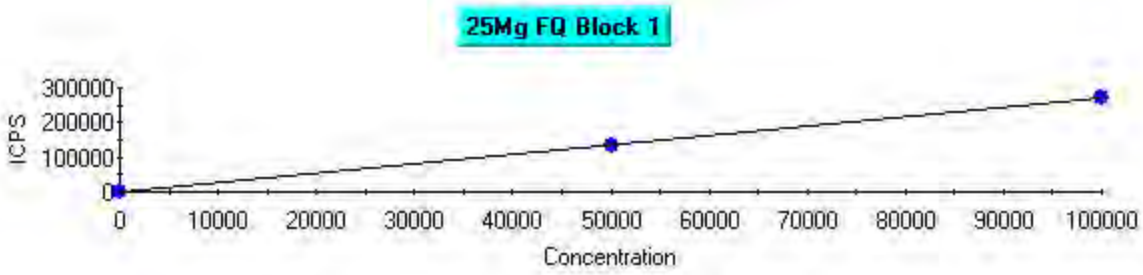
Intercept CPS=27.417545 Intercept Conc=0.022768
Sensitivity=1204.188152 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	27.42	0.00
STD2	100.000	100.260	0.260	120758.97	0.26
STD3	200.000	199.870	0.130	240708.68	0.06



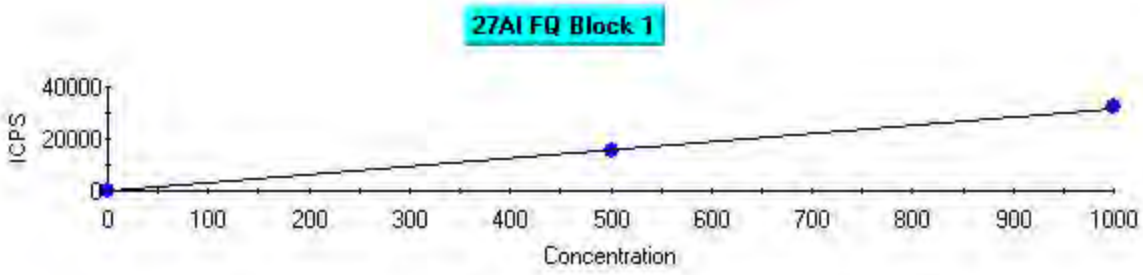
Intercept CPS=186220.536695 Intercept Conc=15.739444
Sensitivity=11831.456206 Correlation Coeff=0.999817

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	186220.54	0.00
STD2	50000.000	48666.827	1333.173	575985657.11	2.67
STD3	100000.000	100666.586	666.586	1191218528.06	0.67



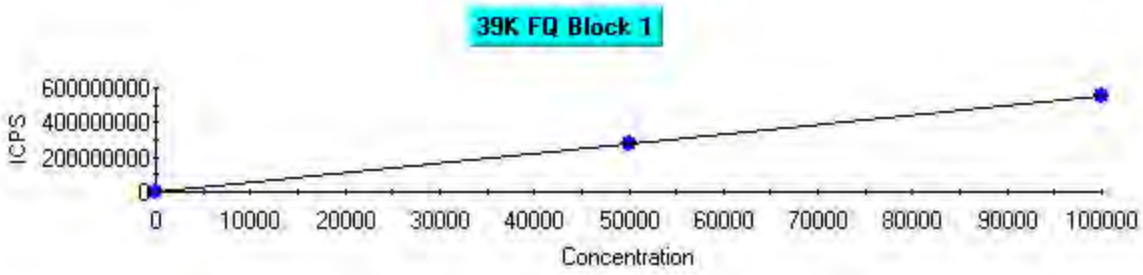
Intercept CPS=7.757268 Intercept Conc=2.862116
Sensitivity=2.710326 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	7.76	0.00
STD2	50000.000	49752.361	247.639	134852.89	0.50
STD3	100000.000	100123.819	123.819	271375.97	0.12



Intercept CPS=256.680800 Intercept Conc=8.136606
Sensitivity=31.546422 Correlation Coeff=0.999804

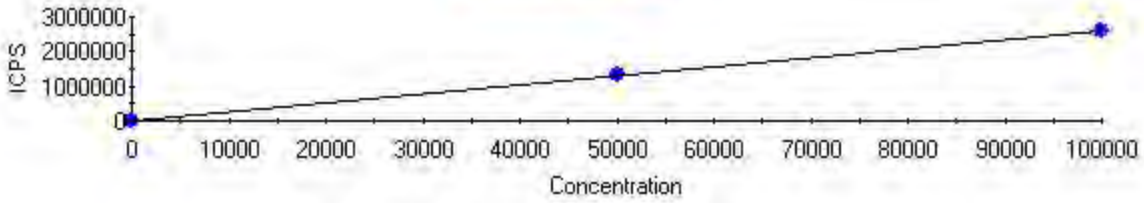
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	256.68	0.00
STD2	500.000	486.181	13.819	15593.96	2.76
STD3	1000.000	1006.909	6.909	32021.07	0.69



Intercept CPS=257905.100706 Intercept Conc=46.904275
Sensitivity=5498.541498 Correlation Coeff=0.999969

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	257905.10	0.00
STD2	50000.000	49451.118	548.882	272166929.63	1.10
STD3	100000.000	100274.441	274.441	551621080.08	0.27

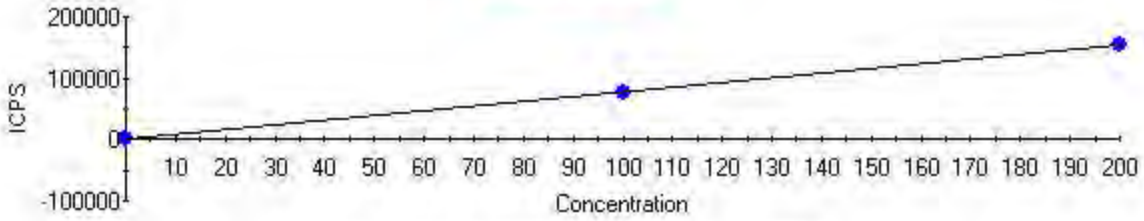
43Ca FQ Block 1



Intercept CPS=1296.899452 Intercept Conc=49.687441
Sensitivity=26.101152 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	1296.90	0.00
STD2	50000.000	50199.506	199.506	1311561.84	0.40
STD3	100000.000	99900.247	99.753	2608808.46	0.10

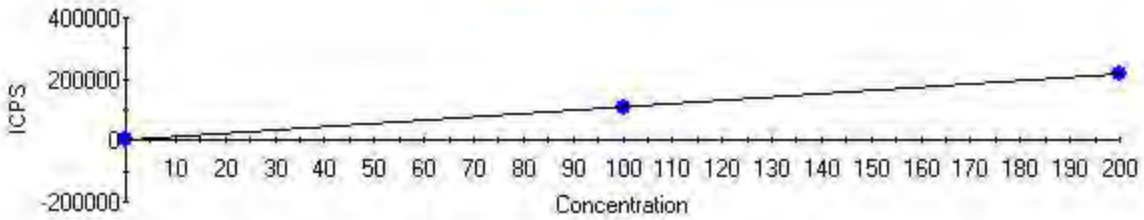
51V FQ Block 1



Intercept CPS=-76.668896 Intercept Conc=-0.099958
Sensitivity=767.012833 Correlation Coeff=0.999919

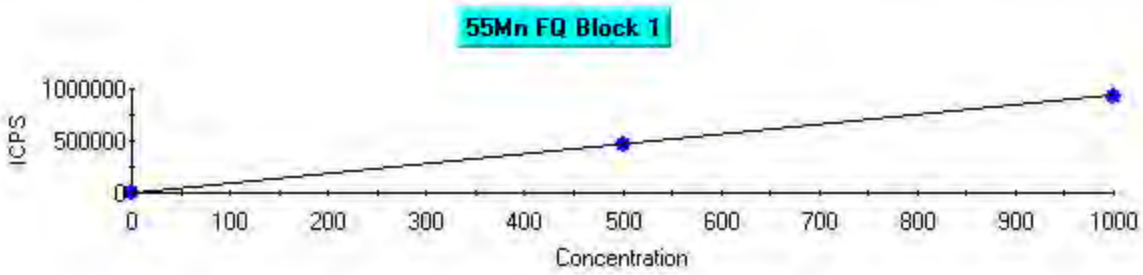
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-76.67	0.00
STD2	100.000	98.228	1.772	75265.45	1.77
STD3	200.000	200.886	0.886	154005.48	0.44

52Cr FQ Block 1



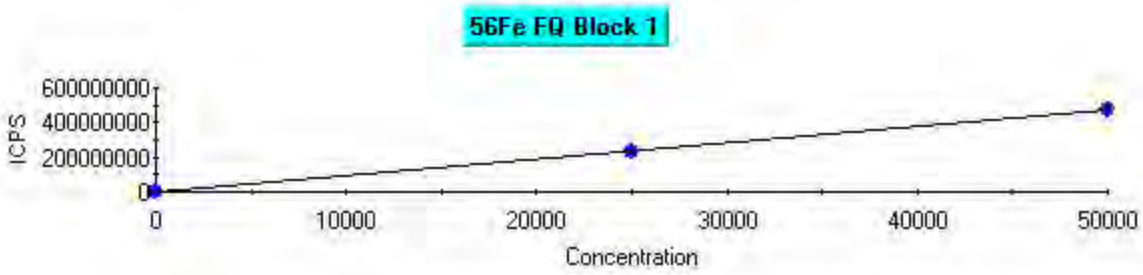
Intercept CPS=-326.395451 Intercept Conc=-0.299774
Sensitivity=1088.805962 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-326.40	0.00
STD2	100.000	99.362	0.638	107859.75	0.64
STD3	200.000	200.319	0.319	217782.02	0.16



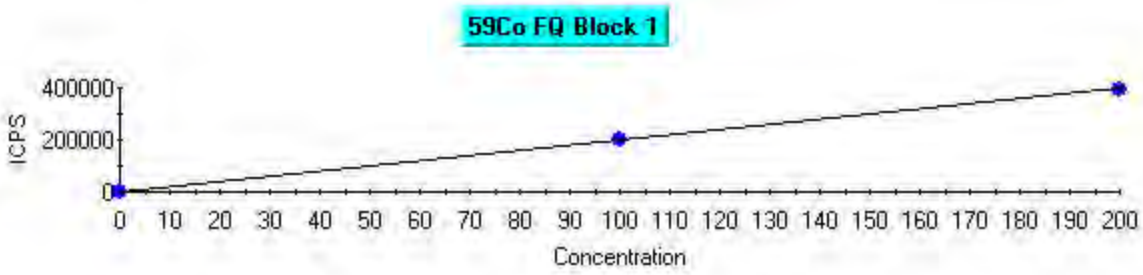
Intercept CPS=47.735397 Intercept Conc=0.051126
Sensitivity=933.685776 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	47.74	0.00
STD2	500.000	503.545	3.545	470200.25	0.71
STD3	1000.000	998.228	1.772	932078.70	0.18



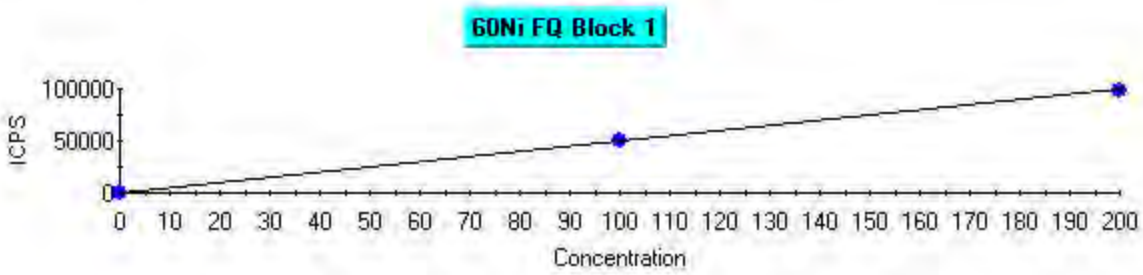
Intercept CPS=766028.862314 Intercept Conc=81.227130
Sensitivity=9430.702021 Correlation Coeff=0.999680

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	766028.86	0.00
STD2	25000.000	24115.186	884.814	228189159.81	3.54
STD3	50000.000	50442.407	442.407	476473339.72	0.88



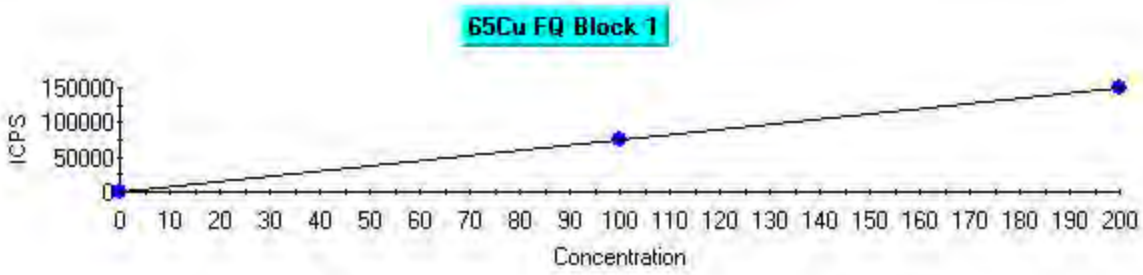
Intercept CPS=3.333378 Intercept Conc=0.001681
Sensitivity=1983.204165 Correlation Coeff=0.999990

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	3.33	0.00
STD2	100.000	100.613	0.613	199539.29	0.61
STD3	200.000	199.694	0.306	396036.39	0.15



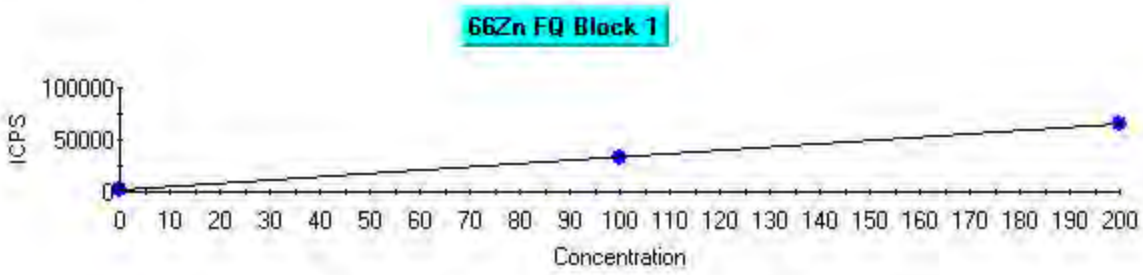
Intercept CPS=33.359834 Intercept Conc=0.067307
Sensitivity=495.634482 Correlation Coeff=0.999971

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	33.36	0.00
STD2	100.000	101.052	1.052	50118.30	1.05
STD3	200.000	199.474	0.526	98899.51	0.26



Intercept CPS=271.064978 Intercept Conc=0.363824
Sensitivity=745.044525 Correlation Coeff=0.999928

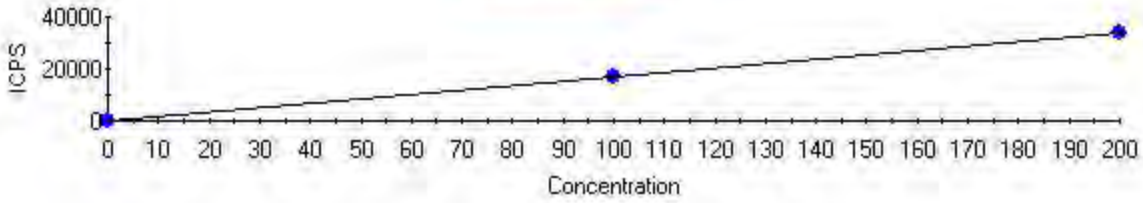
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	271.06	0.00
STD2	100.000	101.654	1.654	76007.55	1.65
STD3	200.000	199.173	0.827	148663.95	0.41



Intercept CPS=1580.169026 Intercept Conc=4.993839
Sensitivity=316.423682 Correlation Coeff=0.999966

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1580.17	0.00
STD2	100.000	101.146	1.146	33585.25	1.15
STD3	200.000	199.427	0.573	64683.55	0.29

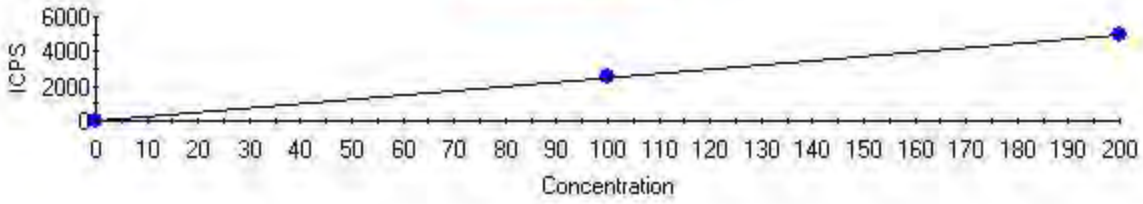
75As FQ Block 1



Intercept CPS=153.341555 Intercept Conc=0.909303
Sensitivity=168.636372 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	153.34	0.00
STD2	100.000	100.635	0.635	17124.10	0.64
STD3	200.000	199.682	0.318	33827.05	0.16

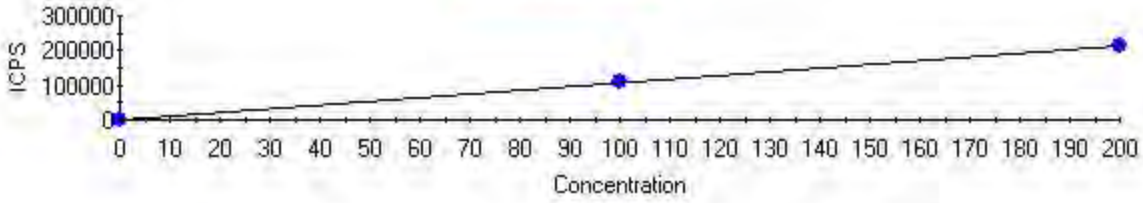
78Se FQ Block 1



Intercept CPS=6.443790 Intercept Conc=0.262393
Sensitivity=24.557758 Correlation Coeff=0.999979

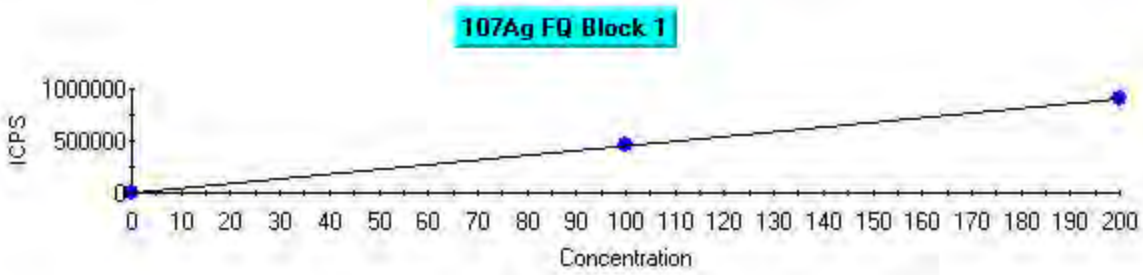
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	6.44	0.00
STD2	100.000	100.886	0.886	2483.98	0.89
STD3	200.000	199.557	0.443	4907.12	0.22

95Mo FQ Block 1



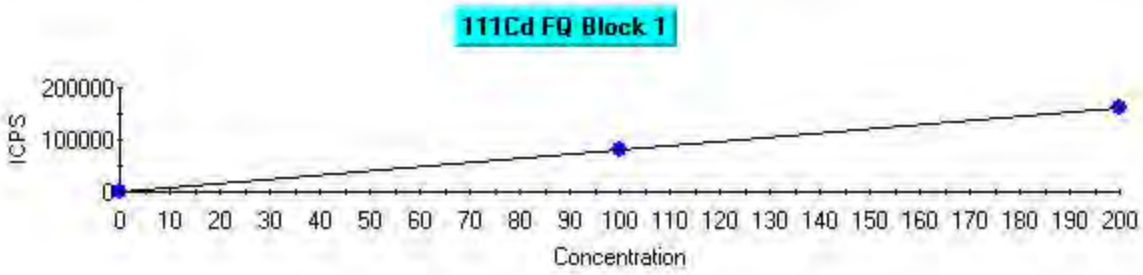
Intercept CPS=13.348159 Intercept Conc=0.012493
Sensitivity=1068.419640 Correlation Coeff=0.999907

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	13.35	0.00
STD2	100.000	101.879	1.879	108863.21	1.88
STD4	200.000	199.060	0.940	212693.33	0.47



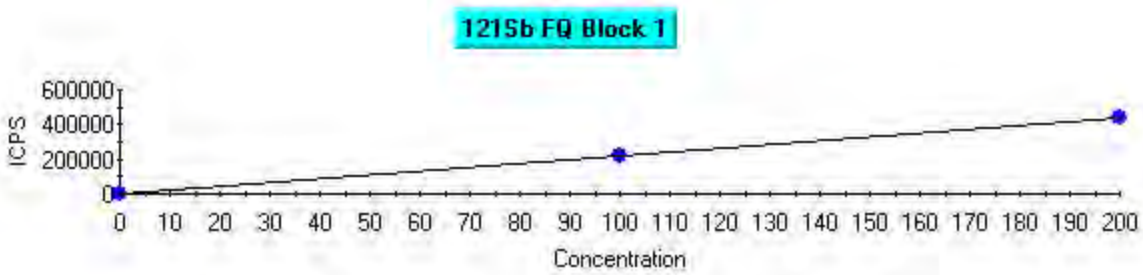
Intercept CPS=14.448945 Intercept Conc=0.003186
Sensitivity=4535.553023 Correlation Coeff=0.999924

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	14.45	0.00
STD2	100.000	101.696	1.696	461261.59	1.70
STD3	200.000	199.152	0.848	903279.14	0.42



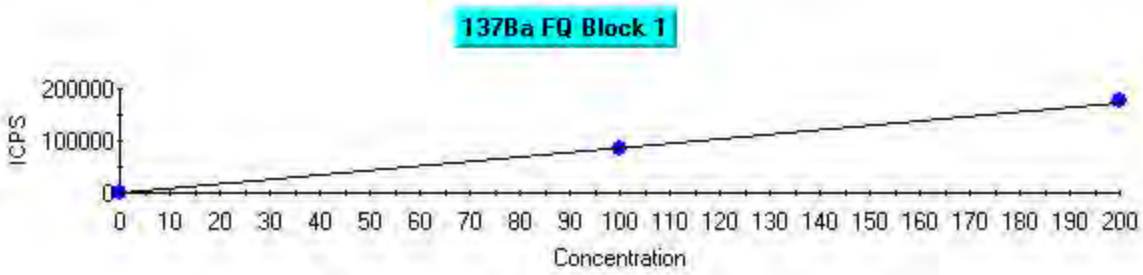
Intercept CPS=5.547812 Intercept Conc=0.006832
Sensitivity=812.010250 Correlation Coeff=0.999988

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	5.55	0.00
STD2	100.000	100.683	0.683	81761.35	0.68
STD3	200.000	199.658	0.342	162130.21	0.17



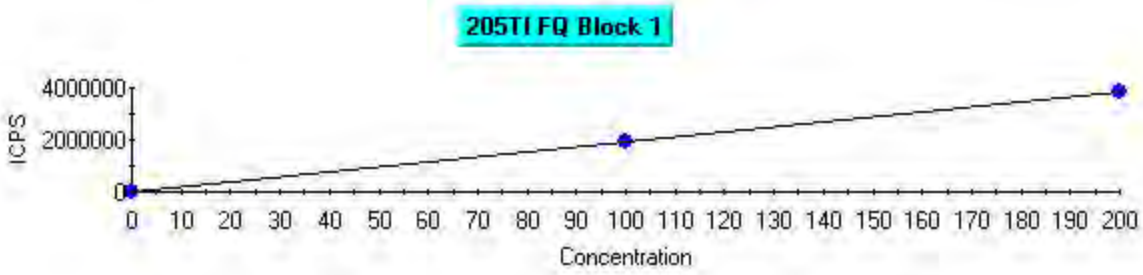
Intercept CPS=75.592748 Intercept Conc=0.034234
Sensitivity=2208.151187 Correlation Coeff=0.999924

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	75.59	0.00
STD2	100.000	98.283	1.717	217100.05	1.72
STD4	200.000	200.858	0.858	443601.16	0.43



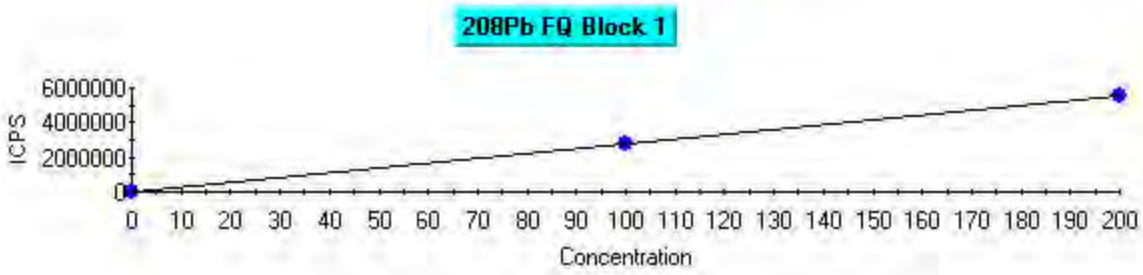
Intercept CPS=111.074407 Intercept Conc=0.127360
Sensitivity=872.131309 Correlation Coeff=0.999953

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	111.07	0.00
STD2	100.000	98.648	1.352	86144.84	1.35
STD3	200.000	200.676	0.676	175127.02	0.34



Intercept CPS=146.718413 Intercept Conc=0.007644
Sensitivity=19194.016670 Correlation Coeff=0.999978

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	146.72	0.00
STD2	100.000	100.924	0.924	1937291.52	0.92
STD3	200.000	199.538	0.462	3830078.48	0.23



Intercept CPS=1292.239126 Intercept Conc=0.046878
Sensitivity=27565.740995 Correlation Coeff=0.999968

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1292.24	0.00
STD2	100.000	98.892	1.108	2727322.95	1.11
STD3	200.000	200.554	0.554	5529712.13	0.28

Dilution Corrected Concentrations

STD1 3/1/2010 07:51:01

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.000%	-0.000	0.000
%RSD		0.228	0.000	0.000
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		0.000	-0.000	T 0.000
%RSD		0.000	0.000	T 0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		-0.000	-0.000	T 100.000%
%RSD		0.000	0.000	T 0.951
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		100.000%	0.000	0.000
%RSD		0.516	0.000	0.000
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.000	0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		0.000	100.000%	0.000
%RSD		0.000	0.373	0.000
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.000	100.000%	0.000
%RSD		0.000	0.933	0.000
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.000	0.000	100.000%
%RSD		0.000	0.000	0.180

STD2 3/1/2010 07:55:30

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		82.878%	100.300	T 48670.000
%RSD		0.439	0.901	T 1.333
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		49750.000	486.200	0.000
%RSD		0.544	1.205	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 49450.000	50200.000	T 78.285%
%RSD		T 0.719	0.476	T 0.514
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		78.904%	98.230	99.360
%RSD		1.284	0.996	0.252
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.533	503.500	T 24120.000
%RSD		25.190	0.595	T 0.444
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.600	101.100	101.700
%RSD		0.834	1.294	1.079
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		101.100	77.347%	100.600
%RSD		1.207	0.400	1.132
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.460	100.900	101.900
%RSD		27.640	1.995	1.417
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.700	91.970
%RSD		0.000	0.246	62.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.700	80.557%	98.280
%RSD		1.194	0.976	0.112
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.650	0.000	0.000
%RSD		1.109	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		100.900	98.890	84.885%
%RSD		0.476	0.711	0.464

STD3 3/1/2010 08:00:07

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.304%	M 199.900	TM 100700.000
%RSD		0.307	M 0.613	TM 1.623
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 100100.000	M 1007.000	0.000
%RSD		M 0.580	M 0.250	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		TM 100300.000	M 99900.000	T 79.293%
%RSD		TM 0.122	M 0.344	T 0.740
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		77.959%	M 200.900	M 200.300
%RSD		1.640	M 0.254	M 0.326
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		11.890	M 998.200	TM 50440.000
%RSD		10.690	M 0.733	TM 0.119
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		199.700	M 199.500	M 199.200
%RSD		0.143	M 0.547	M 0.530
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 199.400	76.729%	M 199.700
%RSD		M 1.846	0.125	M 2.205
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.934	M 199.600	0.120
%RSD		16.950	M 2.197	24.480
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	M 199.200	203.700
%RSD		0.000	M 0.561	19.390
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		199.700	79.888%	0.087
%RSD		0.089	1.195	2.924
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 200.700	0.000	0.000
%RSD		M 0.338	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		TM 199.500	M 200.600	82.589%
%RSD		TM 0.245	M 0.576	0.878

STD4 3/1/2010 08:05:05

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.493%	0.139	68.810
%RSD		0.460	5.486	1.756
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		59.360	-1.610	0.000
%RSD		1.452	93.740	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		65.550	54.770	T 80.419%
%RSD		2.446	3.441	T 0.479
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.037%	0.021	0.068
%RSD		1.307	974.400	26.530
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-1.464	0.726	17.560
%RSD		12.390	6.764	7.438
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.195	0.234	0.606
%RSD		9.070	28.460	14.490
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-1.934	83.941%	0.044
%RSD		14.340	0.853	241.400
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.005	0.258	199.100
%RSD		411.200	55.090	0.257
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.129	8.809
%RSD		0.000	12.540	58.250
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.152	84.444%	M 200.900
%RSD		8.571	0.772	M 0.934
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.137	0.000	0.000
%RSD		18.640	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.338	0.176	97.683%
%RSD		8.029	1.416	0.184

ICV 3/1/2010 08:09:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		84.864%	103.646%	T 105.055%
%RSD		0.900	1.190	T 2.223
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.309%	103.455%	0.000
%RSD		0.422	2.373	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 101.954%	105.310%	T 80.921%
%RSD		T 0.783	0.423	T 0.803
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		80.090%	102.153%	104.549%
%RSD		2.294	1.148	1.118
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.900	104.225%	T 100.844%
%RSD		13.110	0.882	T 0.516
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		104.280%	105.484%	105.016%
%RSD		0.199	0.762	1.348
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.124%	79.179%	101.397%
%RSD		1.454	0.197	1.357
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.142	103.329%	102.448%
%RSD		78.550	2.238	0.668
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	105.571%	18.510
%RSD		0.000	0.471	300.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		104.783%	83.245%	101.883%
%RSD		0.871	1.090	0.767
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		102.097%	0.000	0.000
%RSD		0.545	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		103.524%	100.863%	89.951%
%RSD		0.473	0.886	0.913

ICB 3/1/2010 08:14:18 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.505%	0.006	2.258
%RSD		0.088	109.200	12.970
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		-0.284	-1.830	0.000
%RSD		1571.000	42.890	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		2.961	1.961	T 80.183%
%RSD		57.680	130.500	T 0.435
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		80.891%	0.078	0.009
%RSD		1.478	95.530	217.200
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-1.134	0.002	-14.640
%RSD		8.053	693.900	1.581
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.002	0.013	-0.012
%RSD		83.850	259.800	969.500
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		-0.005	81.053%	0.006
%RSD		1212.000	0.570	1103.000
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.061	-0.123	0.029
%RSD		70.050	84.750	56.860
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.002	-0.684
%RSD		0.000	116.000	109.700
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.001	85.460%	0.045
%RSD		861.400	1.046	39.410
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.004	0.000	0.000
%RSD		828.300	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.200	0.014	96.621%
%RSD		10.600	31.620	1.005

CRI 3/1/2010 08:18:49 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.001%	110.766%	T 103.433%
%RSD		0.934	4.698	T 1.892
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		101.960%	91.391%	0.000
%RSD		1.213	3.598	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 99.690%	105.921%	T 80.869%
%RSD		T 0.486	0.540	T 0.630
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.687%	99.460%	100.272%
%RSD		1.761	2.622	5.717
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.818	120.260%	77.060%
%RSD		3.748	1.390	5.317
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		106.985%	114.386%	123.864%
%RSD		2.749	7.791	7.336
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		76.614%	80.089%	104.088%
%RSD		10.450	0.337	5.428
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.045	112.396%	98.526%
%RSD		104.200	10.740	1.114
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	113.975%	-0.165
%RSD		0.000	3.976	541.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		115.052%	86.191%	103.594%
%RSD		13.810	1.289	2.035
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		87.321%	0.000	0.000
%RSD		2.476	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		109.265%	98.607%	96.980%
%RSD		0.501	1.971	0.555

CRIQ 3/1/2010 08:23:27 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.976%	100.734%	T 99.196%
%RSD		0.970	1.265	T 2.244
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		102.288%	89.335%	0.000
%RSD		0.752	9.375	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 96.863%	103.910%	T 78.437%
%RSD		T 0.673	0.351	T 0.819
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.168%	97.234%	96.759%
%RSD		2.464	5.648	6.088
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.601	106.279%	83.875%
%RSD		48.860	2.881	5.079
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		102.030%	106.480%	111.333%
%RSD		2.457	2.924	0.772
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		98.693%	78.417%	100.348%
%RSD		2.224	0.312	3.781
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.037	109.342%	100.776%
%RSD		67.770	9.688	2.043
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	106.617%	-4.441
%RSD		0.000	3.387	88.340
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		96.871%	85.785%	95.349%
%RSD		8.500	1.842	4.460
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		93.232%	0.000	0.000
%RSD		2.627	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.484%	93.940%	95.687%
%RSD		1.264	1.181	0.712

ICSA 3/1/2010 08:28:00 QC Status: FAIL (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		77.199%	0.010	T 52080.000
%RSD		1.149	95.230	T 1.815
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		52840.000	M 51410.000	0.000
%RSD		0.548	M 0.360	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 51620.000	54860.000	T 71.151%
%RSD		T 0.344	0.279	T 0.342
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		73.014%	-0.396	0.507
%RSD		2.297	33.400	7.066
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.508	2.433	TM 50300.000
%RSD		21.450	6.800	TM 0.524
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.055	0.421	0.256
%RSD		6.604	30.210	27.020
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-2.506	74.800%	0.091
%RSD		2.578	0.143	89.500
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.116	0.076	M 1015.000
%RSD		30.140	243.000	M 0.549
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.035	38.750
%RSD		0.000	17.000	7.950
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.027	79.341%	0.135
%RSD		162.000	1.998	23.190
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.702	0.000	0.000
%RSD		12.810	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.071	0.086	88.016%
%RSD		2.080	2.506	1.223

ICSAB 3/1/2010 08:32:34 QC Status: PASS (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.088%	98.589%	T 106.792%
%RSD		0.558	0.616	T 1.874
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		105.335%	M 102.610%	0.000
%RSD		1.377	M 1.201	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 103.246%	108.454%	T 75.015%
%RSD		T 0.156	0.770	T 0.792
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		74.864%	100.808%	104.032%
%RSD		2.456	1.435	0.836
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		6.095	110.046%	TM 102.303%
%RSD		3.003	1.565	TM 0.701
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		98.622%	103.174%	99.125%
%RSD		1.239	1.077	1.131
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		99.929%	77.736%	97.456%
%RSD		2.259	0.788	1.437
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.272	103.033%	M 1100.000
%RSD		22.830	3.248	M 0.346
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	99.879%	75.810
%RSD		0.000	0.520	39.690
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		101.079%	81.255%	100.358%
%RSD		0.589	1.450	1.196
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		99.849%	0.000	0.000
%RSD		0.944	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		102.787%	99.123%	91.914%
%RSD		0.326	0.612	0.982

CCV 3/1/2010 08:37:21 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.506%	95.410%	T 99.218%
%RSD		1.004	0.636	T 2.375
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		99.461%	99.155%	0.000
%RSD		1.635	0.777	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 98.375%	101.311%	T 78.700%
%RSD		T 0.633	0.145	T 0.253
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.642%	96.109%	98.520%
%RSD		1.939	0.547	0.254
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.440	101.964%	T 97.167%
%RSD		20.330	1.474	T 1.141
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.549%	99.639%	99.550%
%RSD		0.884	0.636	0.962
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.109%	77.492%	99.934%
%RSD		1.754	0.210	1.842
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.582	101.170%	100.621%
%RSD		32.840	1.632	0.887
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	99.772%	94.510
%RSD		0.000	0.890	16.760
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.664%	82.831%	98.388%
%RSD		1.180	0.913	1.264
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.223%	0.000	0.000
%RSD		0.587	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.705%	96.594%	92.920%
%RSD		0.363	0.526	0.882

CCB 3/1/2010 08:42:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.731%	0.008	3.462
%RSD		0.809	22.270	11.290
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		0.573	-1.447	0.000
%RSD		392.300	49.680	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		4.118	0.406	T 78.918%
%RSD		24.210	799.500	T 0.296
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		83.683%	-0.058	0.022
%RSD		1.253	284.600	44.400
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.688	0.036	-15.720
%RSD		11.210	37.390	1.769
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.018	0.007	0.037
%RSD		17.960	317.900	132.100
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.252	79.793%	0.146
%RSD		127.600	0.816	51.420
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.122	0.007	0.098
%RSD		19.640	1771.000	17.070
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.006	-0.251
%RSD		0.000	67.380	0.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.001	88.081%	0.026
%RSD		541.600	1.493	60.320
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.011	0.000	0.000
%RSD		161.800	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.219	0.017	102.517%
%RSD		10.800	10.370	0.788

LV4H9B 3/1/2010 08:46:52 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.396%	-0.002	56.590
%RSD		0.781	90.490	1.021
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		30.940	6.711	0.000
%RSD		31.560	29.710	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		38.240	162.500	T 79.092%
%RSD		3.843	2.582	T 0.575
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		82.538%	-0.163	0.821
%RSD		1.203	20.160	10.680
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-1.284	0.793	15.220
%RSD		7.222	5.194	5.135
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.015	0.474	0.595
%RSD		53.600	13.250	21.890
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		6.896	81.498%	0.002
%RSD		5.816	0.037	4108.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.242	0.117	0.091
%RSD		12.140	40.370	34.750
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.004	-0.464
%RSD		0.000	46.700	79.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.001	88.683%	0.001
%RSD		410.900	0.968	1185.000
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.605	0.000	0.000
%RSD		21.570	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.120	0.186	101.095%
%RSD		1.587	5.439	0.639

LV4H9C 3/1/2010 08:51:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		83.059%	83.440	T 9671.000
%RSD		0.380	0.471	T 0.829
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10120.000	M 9938.000	0.000
%RSD		0.675	M 1.310	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9727.000	10650.000	T 72.335%
%RSD		T 0.861	1.067	T 0.994
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		76.405%	89.710	92.580
%RSD		0.984	1.752	0.998
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.783	102.900	T 9477.000
%RSD		24.980	1.764	T 0.771
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		94.200	94.700	94.900
%RSD		1.032	0.417	1.397
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		99.790	71.684%	84.250
%RSD		0.448	0.781	1.121
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.181	80.700	97.220
%RSD		84.220	2.787	0.471
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	98.480	22.970
%RSD		0.000	0.418	41.940
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		88.090	82.076%	90.600
%RSD		1.706	0.730	0.989
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		91.120	0.000	0.000
%RSD		0.743	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		93.260	91.060	93.827%
%RSD		0.576	0.756	0.537

LV3H6 3/1/2010 08:56:05 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		74.630%	1.422	T 411.400
%RSD		0.472	4.026	T 1.361
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		61700.000	M 25820.000	0.000
%RSD		1.117	M 0.742	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 4303.000	TM 195600.000	T 74.205%
%RSD		T 0.443	TM 0.528	T 0.763
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		75.013%	49.720	46.400
%RSD		1.522	1.104	0.283
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.332	M 2589.000	TM 106300.000
%RSD		255.000	M 0.958	TM 0.704
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		29.850	82.840	103.500
%RSD		1.215	0.931	0.487
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 464.300	72.514%	60.470
%RSD		M 0.627	1.126	1.355
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.458	4.363	5.726
%RSD		19.500	2.829	2.907
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.132	-19.200
%RSD		0.000	10.830	14.280
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.553	81.597%	0.679
%RSD		4.915	1.568	6.416
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		147.800	0.000	0.000
%RSD		1.247	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.793	53.610	90.461%
%RSD		3.124	0.554	0.952

LV3JM 3/1/2010 09:00:37 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		74.897%	1.475	T 589.400
%RSD		0.809	2.808	T 1.645
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 181200.000	M 20990.000	0.000
%RSD		M 0.917	M 1.486	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3482.000	TM 426900.000	T 76.939%
%RSD		T 0.557	TM 0.082	T 0.748
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.341%	48.510	50.910
%RSD		1.687	0.807	0.796
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.772	M 2974.000	TM 135900.000
%RSD		36.750	M 0.507	TM 0.479
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		24.920	62.160	85.780
%RSD		1.700	2.580	1.168
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 330.700	75.076%	48.120
%RSD		M 1.323	0.724	0.946
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.538	3.705	8.187
%RSD		9.535	8.950	4.039
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.107	-18.630
%RSD		0.000	6.965	24.030
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.585	80.377%	0.634
%RSD		8.916	1.193	4.811
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		118.100	0.000	0.000
%RSD		1.151	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.487	52.620	84.242%
%RSD		3.077	0.955	0.929

LV3JV 3/1/2010 09:05:07 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		73.371%	2.566	T 534.300
%RSD		0.625	1.985	T 1.007
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		37320.000	M 47030.000	0.000
%RSD		0.523	M 0.347	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9498.000	M 143100.000	T 74.776%
%RSD		T 0.196	M 0.688	T 0.902
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.302%	92.750	75.330
%RSD		1.095	1.266	0.264
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.434	M 2192.000	TM 141700.000
%RSD		35.520	M 0.294	TM 0.514
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		49.650	125.000	140.400
%RSD		0.591	0.584	0.832
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 432.000	72.699%	78.370
%RSD		M 0.524	0.653	1.257
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.529	4.341	12.030
%RSD		12.350	17.700	1.809
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.181	-24.230
%RSD		0.000	4.639	71.630
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.560	79.894%	0.645
%RSD		16.260	0.826	4.864
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 292.900	0.000	0.000
%RSD		M 1.000	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.090	72.620	92.343%
%RSD		1.954	0.891	0.586

LV3JW 3/1/2010 09:09:43 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		71.494%	3.488	T 601.000
%RSD		0.683	1.647	T 0.998
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		43640.000	M 62690.000	0.000
%RSD		0.476	M 0.423	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 10530.000	TM 267600.000	T 75.149%
%RSD		T 0.329	TM 0.109	T 1.100
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		73.983%	119.400	107.600
%RSD		1.165	0.840	0.620
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.317	M 2525.000	TM 181600.000
%RSD		10.750	M 0.501	TM 0.462
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		68.870	162.500	166.100
%RSD		0.691	0.810	1.148
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 489.200	74.162%	93.260
%RSD		M 0.532	0.683	0.410
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.597	5.667	14.910
%RSD		15.580	1.256	1.422
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.195	-30.450
%RSD		0.000	5.434	33.540
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.698	80.066%	0.668
%RSD		8.111	0.635	3.472
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 401.100	0.000	0.000
%RSD		M 0.622	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.405	86.060	91.454%
%RSD		0.088	0.468	0.624

LV3J1 3/1/2010 09:14:14 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		72.107%	4.685	T 782.500
%RSD		0.926	1.368	T 1.140
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		52960.000	M 87390.000	0.000
%RSD		0.751	M 0.776	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 15970.000	TM 213800.000	T 75.846%
%RSD		T 1.077	TM 0.174	T 0.334
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		73.672%	159.200	142.400
%RSD		1.156	0.496	0.704
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		9.419	M 3275.000	TM 211200.000
%RSD		15.050	M 0.586	TM 0.350
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		88.630	M 216.200	161.900
%RSD		1.040	M 0.716	1.408
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 481.500	73.731%	83.060
%RSD		M 0.499	0.608	1.559
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.779	5.679	12.790
%RSD		24.330	8.969	1.301
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.166	-37.840
%RSD		0.000	13.610	18.850
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.683	78.406%	0.633
%RSD		14.300	1.069	4.780
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 505.100	0.000	0.000
%RSD		M 0.581	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.561	90.760	90.674%
%RSD		1.514	0.804	0.634

LV4H5B 3/1/2010 09:18:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.691%	-0.001	6.581
%RSD		0.257	511.600	1.555
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		76.500	81.630	0.000
%RSD		9.783	7.064	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		3.532	109.900	T 84.443%
%RSD		14.930	4.695	T 0.398
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		83.667%	-0.150	0.188
%RSD		0.416	69.050	10.020
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.416	3.856	64.800
%RSD		21.370	14.200	4.755
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.138	0.268	0.290
%RSD		25.360	22.590	18.520
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		4.076	86.131%	0.148
%RSD		14.220	0.209	51.990
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.186	0.021	0.025
%RSD		3.977	306.400	40.640
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.003	-0.096
%RSD		0.000	48.610	899.100
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.002	89.617%	0.074
%RSD		206.100	0.331	39.390
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.488	0.000	0.000
%RSD		12.970	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.035	0.110	105.059%
%RSD		10.570	18.650	0.309

LV4H5C 3/1/2010 09:23:26 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.587%	98.360	T 9821.000
%RSD		0.890	1.451	T 1.310
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10090.000	M 9911.000	0.000
%RSD		1.684	M 0.267	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9883.000	10390.000	T 79.455%
%RSD		T 0.379	0.678	T 0.373
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		80.679%	95.500	96.820
%RSD		0.928	1.313	0.571
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		6.264	104.100	T 9766.000
%RSD		17.610	0.863	T 0.533
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.260	101.700	101.500
%RSD		0.685	0.544	2.310
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		104.700	79.655%	98.840
%RSD		1.314	0.713	0.405
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.238	104.300	96.690
%RSD		31.860	2.500	0.707
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.900	9.975
%RSD		0.000	0.595	415.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.100	85.500%	98.180
%RSD		0.755	1.079	0.637
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		94.920	0.000	0.000
%RSD		0.539	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		95.570	93.760	98.539%
%RSD		0.474	0.214	0.819

LV30J 3/1/2010 09:28:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.112%	0.006	T 23100.000
%RSD		0.305	210.400	T 1.187
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		82350.000	11.970	T 0.000
%RSD		0.819	12.230	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3073.000	TM 223500.000	T 90.202%
%RSD		T 0.562	TM 0.274	T 0.388
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		84.108%	-0.160	-0.129
%RSD		0.820	177.800	43.600
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.504	271.600	T 744.000
%RSD		82.190	0.556	T 0.819
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		1.809	5.473	0.502
%RSD		6.824	4.164	11.380
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		3.609	90.208%	1.709
%RSD		7.008	0.313	0.945
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.181	0.318	5.983
%RSD		50.570	61.410	1.163
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.004	-0.229
%RSD		0.000	88.530	634.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.013	87.395%	0.149
%RSD		20.400	0.200	16.190
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		24.750	0.000	0.000
%RSD		0.928	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.689	0.031	91.056%
%RSD		2.830	11.210	0.817

CCV 1 3/1/2010 09:32:53 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.610%	97.435%	T 98.541%
%RSD		0.308	0.682	T 1.498
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		99.602%	99.762%	0.000
%RSD		1.585	0.930	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 100.635%	100.660%	T 79.116%
%RSD		T 0.304	0.062	T 0.645
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		79.596%	97.030%	98.645%
%RSD		1.747	1.456	0.175
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		6.603	100.890%	T 99.042%
%RSD		18.060	1.335	T 0.433
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		98.838%	100.665%	101.387%
%RSD		0.698	0.348	0.630
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		101.236%	77.451%	100.932%
%RSD		1.604	0.517	0.385
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.449	101.758%	100.616%
%RSD		15.280	1.427	0.581
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	100.396%	104.900
%RSD		0.000	0.603	67.200
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		100.145%	82.857%	98.156%
%RSD		0.426	1.283	0.262
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		97.335%	0.000	0.000
%RSD		0.489	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		99.558%	96.207%	91.904%
%RSD		0.168	0.765	0.779

CCB 1 3/1/2010 09:38:10 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.084%	0.017	6.555
%RSD		0.292	49.020	4.779
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		7.766	-0.671	T 0.000
%RSD		108.400	61.500	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		5.928	9.849	T 77.466%
%RSD		16.250	36.030	T 0.795
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.113%	0.150	0.016
%RSD		1.297	37.930	212.000
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-1.135	0.079	-11.440
%RSD		9.087	7.550	17.680
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.018	0.011	0.108
%RSD		44.530	227.600	47.300
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.034	79.042%	0.107
%RSD		641.900	0.554	5.609
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.137	0.093	0.053
%RSD		45.070	97.830	22.340
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.010	-0.907
%RSD		0.000	38.820	72.740
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.012	85.976%	0.026
%RSD		104.100	1.075	5.443
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.023	0.000	0.000
%RSD		195.800	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.238	0.023	100.961%
%RSD		8.861	20.070	0.761

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

Metals Internal Chain of Custody

Date Prepared: 02/26/10 **Prep Analyst:** Lisa Mcgall

Laboratory Sample ID		Lab ID	Method	Analysis Date	Analyst	Instrument
A0B250453	1	LV3H6	SW846 6020	03/01/10	Karen Counts	I8
A0B250453	1	LV3H6	SW846 7471A	03/03/10	Roger Toth	H1
A0B250453	2	LV3JM	SW846 6020	03/01/10	Karen Counts	I8
A0B250453	2	LV3JM	SW846 7471A	03/03/10	Roger Toth	H1
A0B250453	3	LV3JV	SW846 6020	03/01/10	Karen Counts	I8
A0B250453	3	LV3JV	SW846 7471A	03/03/10	Roger Toth	H1
A0B250453	4	LV3JW	SW846 6020	03/01/10	Karen Counts	I8
A0B250453	4	LV3JW	SW846 7471A	03/03/10	Roger Toth	H1
A0B250453	5	LV3J1	SW846 6020	03/01/10	Karen Counts	I8
A0B250453	5	LV3J1	SW846 7471A	03/03/10	Roger Toth	H1

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

METALS PREPARATION SUMMARY

Preparation Type	Matrix	Amount of Standard added to LCS & MS/MSD		Initial Sample Vol/Wt	Final Sample Volume
		Amount	Standard name		
ICP	water	1 mL 1 mL 1.0 mL	Ag ICP-1 ICP-2A	50 mL	50 mL
ICPMS	water	0.5ml 0.5ml	ICPMS-1 ICPMS-2	50 mL	50 mL
Hg - CVAA	water	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL
Hg - CVAF (low level)	water	0.2 mL (LCS/MS/MSD)	HG ICAL	40 ml	40 ml
ICP	solid	2 mL 2 mL 2 mL	Ag ICP-1 ICP-2A	1.00 +/- .02g	100 mL
ICPMS	solid	1ml 1ml	ICPMS-1 ICPMS-2	1.00 +/- .02g	100ml
Hg - CVAA	solid	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	0.60 +/- .01g	100 mL
ICP	TCLP	1 mL (LCS) 1 mL(LCS)	Ag ICP-1	50 mL	50 mL
ICP	TCLP	0.5 mL(MS/MSD)	TCLP Spike I RCRA	50 mL	50 mL
ICP	TCLP	1 mL(MS/MSD)	TCLP Spike II Non-RCRA	50 mL	50 mL
Hg - CVAA	TCLP	5 mL (LCS) 5 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL

Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.0002 ppm		0.2 mL	HG-2	0.1 ppm
0.0005 ppm		0.5 mL	HG-2	0.1 ppm
0.001 ppm		1 mL	HG-2	0.1 ppm
0.005 ppm		5 mL	HG-2	0.1 ppm
0.010 ppm		10 mL	HG-2	0.1 ppm
ICV Preparation				
0.0025 ppm		2.5 mL	HG-1	0.1 ppm
CCV Preparation:				
0.005 ppm		5 mL	HG-2	0.1 ppm

Low Level Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.5 ppt		20 ul	HG ICAL	1.0 ppb
1.0 ppt		40 ul	HG ICAL	1.0 ppb
2 ppt		80 ul	HG ICAL	1.0 ppb
5 ppt		200 ul	HG ICAL	1.0 ppb
10 ppt		400 ul	HG ICAL	1.0 ppb
25 ppt		1000 ul	HG ICAL	1.0 ppb
ICV Preparation				
5 ppt		200 ul	HG ICV	1.0 ppb
CCV Preparation:				
5 ppt		200 ul	HG ICAL	1.0 ppb

SPIKING STANDARD DEFINITIONS

Elements	Ag	ICP-1	ICP-2A	ICPMS-1	ICPMS-2	HG-1	HG-2	HG ICAL	HG ICV	TCLP Spike I	TCLP Spike II
Ag	2.5 ppm			10ppm						100 ppm	
Al		100 ppm			1000ppm						100 ppm
As		100 ppm		10ppm						500 ppm	
Ba		100 ppm		10ppm						5000 ppm	
Be		2.5 ppm		10ppm							2.5 ppm
Cd		2.5 ppm		10ppm						100 ppm	
Ca			2500 ppm		1000ppm						
Co		25 ppm		10ppm							25 ppm
Cr		10 ppm		10ppm						500 ppm	
Cu		12.5 ppm		10ppm							12.5 ppm
Fe		50 ppm			1000ppm						50 ppm
Hg						0.1 ppm	0.1 ppm	1.0 ppb	1.0 ppb		
K			2500 ppm		1000ppm						
Mg			2500 ppm		1000ppm						
Mn		25 ppm		10ppm							25 ppm
Na			2500 ppm		1000ppm						
Ni		25 ppm		10ppm							25 ppm
Pb		25 ppm		10ppm						500 ppm	
Sb		25 ppm		10ppm							25 ppm
Se		100 ppm		10ppm						100 ppm	
Tl		100 ppm		10ppm							100 ppm
V		25 ppm		10ppm							25 ppm
Zn		25 ppm		10ppm							25 ppm
B		50 ppm		10ppm							50 ppm
Sr		50 ppm		10ppm							
Mo		50 ppm		10ppm							50 ppm
W		50 ppm		10ppm							
Sn		100 ppm		10ppm							100 ppm
Zr		50 ppm		10ppm							
Ti		50 ppm		10ppm							

TestAmerica North Canton
Revised 4/5/02
N:\Metals\Preplog.xls

DATE: 2:26-10

METALS PREPARATION REAGENTS/STANDARDS

Reagents and Standards listed on this form are used for the entire day's prep batches unless otherwise noted on the individual prep log.

REAGENT NAME	REAGENT NUMBER
1:1 HNO_3 (nitric acid)	OMR 127
1:1 HCl (hydrochloric acid)	OMR77
HNO_3 (nitric acid)	OMR 100
HCl (hydrochloric acid)	OMR102
$KMnO_4$ (potassium permanganate)	OMR94
$K_2S_2O_8$ (potassium persulfate)	OMR97
H_2O_2 (hydrogen peroxide)	9MR782
H_2SO_4 (sulfuric acid)	OMR91
HCl/HNO_3 (aqua regia)	OMR128

STANDARD NAME	STANDARD/LOT NUMBER
ICP-1	OA17
ICP-2A	OA46
RCRA	HPS0935009
non-RCRA	———
Ag	OB82
Hg	OB101
ICPMS-1	HPS0928714A HPS0928716B
ICPMS-2	HPS0930821

Filter Paper Lot #
K 11589107 A

Waters

Hg time in the water bath (HB1) 9:50
Hg time out of the water bath (HB1) 11:50

Solids

Hg time in the water bath (HB1) 11:15
Hg time out of the water bath (HB1) 11:45

Times listed are for the waters and solids for that day unless otherwise noted.

All solid batches were weighed on balance number B030 unless otherwise noted.

Daily Batch Level II Lisa McGall

Test America North Canton
Revision Date: 4/4/08
N:\Metals/Reagent2.doc

Hg Standard Curve Preparation Summary

Date: 2.26.10

Time In: 7:00

Time Out: 9:00

> H2O

Standard Concentrations	Standard Numbers
S0	
0.2 ppb	
CRA - 0.2 ppb	
0.5 ppb	
1.0 ppb	STD OB102
5.0 ppb	
10.0 ppb	
CCV - 5.0 ppb	
CCB	
ICV - 2.5 ppb	STD OB101
ICB	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GENERAL CHEMISTRY DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-006-5129-SO

General Chemistry

Lot-Sample #...: A0B250453-001 **Work Order #...:** LV3H6 **Matrix.....:** SO
Date Sampled...: 02/24/10 11:20 **Date Received..:** 02/25/10
% Moisture.....: 5.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**94.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056243**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

General Chemistry

Lot-Sample #...: A0B250453-002 **Work Order #...:** LV3JM **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
% Moisture.....: 5.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**94.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056243**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-009-5139-SO

General Chemistry

Lot-Sample #...: A0B250453-003 **Work Order #...:** LV3JV **Matrix.....:** SO
Date Sampled...: 02/24/10 13:55 **Date Received..:** 02/25/10
% Moisture.....: 9.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**90.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056243**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-010-5143-SO

General Chemistry

Lot-Sample #...: A0B250453-004 **Work Order #...:** LV3JW **Matrix.....:** SO
Date Sampled...: 02/24/10 09:23 **Date Received..:** 02/25/10
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056243**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-011-5147-SO

General Chemistry

Lot-Sample #...: A0B250453-005 **Work Order #...:** LV3J1 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056243**

Dilution Factor: 1 MDL.....: 10.0

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0B250453 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: LV3WA1AA		MB Lot-Sample #:	A0B250000-243	
	ND	10.0	%	MCAWW 160.3 MOD	02/25-02/26/10	0056243
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250453 **Work Order #...:** LV030-SMP **Matrix.....:** SOLID
LV030-DUP
Date Sampled...: 02/22/10 13:35 **Date Received..:** 02/23/10
% Moisture.....: 24

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B230467-002		
	75.7	74.8	%	1.3	(0-20)	MCAWW 160.3 MOD	02/25-02/26/10	0056243

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250453 **Work Order #...:** LV3J1-SMP **Matrix.....:** SO
LV3J1-DUP
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250453-005		
	85.6	86.8	%	1.4	(0-20)	MCAWW 160.3 MOD	02/25-02/26/10	0056243

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SUPPORTIVE RAW DATA

			TestAmerica, North Canton			
		Percent Total Solid/Percent Moisture Logsheet				
		Method 160.3, 160.5, D2216-90, D1553-83				
Analysis	TS			Batch		56243
Prep Date	2/25/2010	Time In	15:04	Analyst	TH	WETCHEM
					SS	
Anal date	2/26/2010	Time Out	7:00	RL	10	
Oven	**2**	Balance	**6**	Due Date:	**3/4/2010**	
Sample	Tare	Wet	Dry	Result TS	Result MS	Time
ID	wt	wt	wt	%	%	
BLANK	4.586	4.5059	4.4970	2.67	ND	9:50
LV3H61AA	4.586	15.8376	15.2052	94.379	5.621	9:50
LV3JM1AA	4.586	17.1091	16.3725	94.118	5.882	9:51
LV3JV1AG	4.586	9.3202	8.8567	90.210	9.790	9:51
LV3JW1AG	4.586	10.8337	9.9252	85.459	14.541	9:51
LV3J11AG	4.586	7.6799	7.2329	85.552	14.448	9:51
LV3J11A5 X	4.586	7.8795	7.4443	86.786	13.214	9:52
LVWX01AA	4.586	13.2990	8.7601	47.907	52.093	9:52
LVWX11AA	4.586	13.4617	11.9084	82.499	17.501	9:52
LVWX81AA	4.586	15.9455	12.0438	65.653	34.347	9:52
LV03V1AA	4.586	15.8041	13.7711	81.878	18.122	9:52
LV0301DU X	4.586	10.2427	8.8156	74.772	25.228	9:53
LV0301AA	4.586	10.2511	8.8765	75.736	24.264	9:53
LV0311AE	4.586	10.1422	8.9864	79.198	20.802	9:53
LV0341AL	4.586	11.4292	10.0678	80.106	19.894	9:53
LV0351AT	4.586	9.6701	8.6076	79.102	20.898	9:53
LV0361AT	4.586	11.7362	10.6425	84.704	15.296	9:54
LV0381AA	4.586	11.2699	9.6085	75.143	24.857	9:54
LV04A1AA	4.586	12.0791	10.5527	79.629	20.371	9:54
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0B250453	1		LV3H61AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Tom Harshman	02/26/10	Samantha Scott
A0B250453	2		LV3JM1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Tom Harshman	02/26/10	Samantha Scott
A0B250453	3		LV3JV1AG	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Tom Harshman	02/26/10	Samantha Scott
A0B250453	4		LV3JW1AG	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Tom Harshman	02/26/10	Samantha Scott
A0B250453	5		LV3J11AG	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Tom Harshman	02/26/10	Samantha Scott
A0B250453	5	X	LV3J11A5	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Tom Harshman	02/26/10	Samantha Scott

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 172819.00.09456.00.9200.02.200

RVAAP PBA2008 17 AOCs RI

Lot #: A0B250444

CONTRACT NO: W912QR-04-D-0028

DELIVERY ORDER: 0001

Marie Simpson

SAIC
151 LaFayette Drive
PO Box 2502
Oak Ridge, TN 37831

TESTAMERICA LABORATORIES, INC.

Unless noted otherwise, the test results reported herein meet all requirements of NELAC and the current version of the DoD QSM.

Approved for release.
Mark J. Loeb
Project Manager II
3/30/2010 2:29 PM

Mark J. Loeb
Project Manager
mark.loeb@testamericainc.com

March 25, 2010

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0B250444

The following report contains the analytical results for two solid samples submitted to TestAmerica North Canton by SAIC from the RVAAP PBA2008 17 AOCs RI Site, project number 172819.00.09456.00.9200.02.200. The samples were received February 25, 2010, according to documented sample acceptance procedures.

The Porosity, Bulk Density and the Grain Size Fraction analyses were performed at the TestAmerica Burlington Laboratory.

The Permeability, K (undisturbed) test by method ASTM D5084/2434 was subcontracted to GeoTesting Express of Boxborough, Ma.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Heather Miller, Jenny Vance, Marie Simpson, and Richard Sprinzl on February 26, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Mark J. Loeb, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 11.6 and 11.8°C.

See TestAmerica's Cooler Receipt Form for additional information.

GENERAL CHEMISTRY

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analytes(s).

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0B250444

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-007-5131-SO 02/24/10 14:45 001				
Percent Solids	87.0	10.0	%	MCAWW 160.3 MOD
Total Organic Carbon	1100	1100	mg/kg	MSA WALKLEY-BLACK
ATASB-007-5132-SO 02/24/10 15:00 002				
Percent Solids	81.9	10.0	%	MCAWW 160.3 MOD
Total Organic Carbon	580 J	1200	mg/kg	MSA WALKLEY-BLACK

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0B250444

PARAMETER	ANALYTICAL METHOD
Total Organic Carbon	MSA WALKLEY-BLACK
Total Residue as Percent Solids	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

MSA "Methods of Soil Analysis, Chemical and Microbiological Properties", Part 2, 2nd Ed., 1982 and Subsequent Revisions.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE SUMMARY

SAMPLE SUMMARY

A0B250444

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LV3G5	001	ATASB-007-5131-SO	02/24/10	14:45
LV3G9	002	ATASB-007-5132-SO	02/24/10	15:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SHIPPING AND RECEIVING DOCUMENTS

Chain of Custody Record

SAIC
From Science to Solutions
151 Lafayette Drive, Oak Ridge, TN 37831
(865) 481-4600

Science Applications
International Corporation
An Employee Owned Company

COC NO.: RVAAP-PBA08RI-017
Date: 2/25/2010

PROJECT NAME: RVAAP PBA2008 17 AOCs RI
PO NUMBER: PO10025302
PROJECT NUMBER: 172819.00.09456.00.9200.02.200
PROJECT MANAGER: Kevin Jago
AOC: Anchor Test Area (Subsurface Soil)

Sampler (Signature) RSprinzl (Printed Name): Rich Sprinzl

Laboratory Name: TestAmerica
Address: 4101 Shuffel Street NW, North Canton, Ohio 44720
Attn: Mark Loeb
Phone: 330-966-9387

Sample ID	Station ID	Depth (ft)	Date Collected	Time Collected	Matrix	Requested Parameters: TAL Metals + Hg (1)	Explosives (2)	SVOCs (3)	Propellants (4)	VOCs (5)	Pesticides (6)	PCBs (7)	PAHs (8)	Asbestos (9)	Porosity (10)	Bulk Density (11)	Moisture content (12)	Total organic carbon (13)	grain size fraction analysis (14)	permeability, K (undisturbed) (15)	No. of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
ATASB-007-5131-SO	ATAsb-007	4-4.9	2/24/2010	1445	SO										X	X	X	X	X	X	1	Geotech
ATASB-007-5132-SO	ATAsb-007	10-12	2/24/2010	1500	SO										X	X	X	X	X	X	1	Geotech

RS

Total Number of Containers: 2
Cooler ID: 2 boxes
Cooler Temperature:
FEDEX NUMBER: NA

Signature: RSprinzl	Date: 2/25/10	Received by: Lance Hershman	Date: 2-25-10
Printed Name: Rich Sprinzl	Time: 0930	Printed Name: LANCE HERSHMAN	Date: 10:20
Company: SAIC		Company: TAN CANTON	
Relinquished by: Lance Hershman	Date: 2/25/10	Received by: RMcF	Time: 2/25/10
Signature: LANCE HERSHMAN	Time: 11:15	Signature: John McFadden	Time: 1115
Printed Name: TAN CANTON		Printed Name: TA NC	
Company:		Company:	

1 6020/7471A
2 8330B
3 3540C/3541/8270C
4 Nitroguanidine:8330 Mod/8332 Mod; Nitrocellulose:9056 Mod/353.2
5 8260B/5021
6 3540C/3541C/8081A
7 3540C/3541C/8082
8 8270 (low level PAHs)
9 600/R-93/116
10 USACE EM1110-2-1906 App II
11 ASTM D5057
12 ASTM D2216
13 EPA 415.1 Mod or SW-846, 9060A Mod or Walkley-Black
14 ASTM D422
15 ASTM D5084/2434

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240B250444
North Canton Facility

Client SAIC Project RVAAP By: (Signature)
Cooler Received on 2/25/10 Opened on 2/25/10
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☒ Other
TestAmerica Cooler # Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other Cardboard boxes

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 4 Quantity Unsalvageable 4
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other
6. Cooler temperature upon receipt °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐
   COOLANT: Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☒
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:
High Temp OK samples could not fit into a cooler as the samples are in 3ft long shelby tubes.

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 121709-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
5131 Box	11.8	IR	None
5132 Box	11.6	"	"

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GENERAL CHEMISTRY DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-007-5131-SO

General Chemistry

Lot-Sample #...: A0B250444-001 **Work Order #...:** LV3G5 **Matrix.....:** SO
Date Sampled...: 02/24/10 14:45 **Date Received..:** 02/25/10
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/15-03/16/10**	**0074188**
	Dilution Factor: 1			MDL.....: 10.0		
Total Organic Carbon	**1100**	**1100**	**mg/kg**	**MSA WALKLEY-BLACK**	**03/16/10**	**0075247**
	Dilution Factor: 1			MDL.....: 290		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASB-007-5132-SO

General Chemistry

Lot-Sample #...: A0B250444-002 **Work Order #...:** LV3G9 **Matrix.....:** SO
Date Sampled...: 02/24/10 15:00 **Date Received..:** 02/25/10
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**81.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/15-03/16/10**	**0074188**
		Dilution Factor: 1		MDL.....: 10.0		
Total Organic Carbon	**580 J**	**1200**	**mg/kg**	**MSA WALKLEY-BLACK**	**03/16/10**	**0075247**
		Dilution Factor: 1		MDL.....: 310		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

J Estimated result: result is less than RL and greater than or equal to the MDL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0B250444 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: LWMXJ1AA		MB Lot-Sample #:	A0C150000-188	
	ND	10.0	%	MCAWW 160.3 MOD	03/15-03/16/10	0074188
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: LWN941AA		MB Lot-Sample #:	A0C160000-247	
	ND	1000	mg/kg	MSA WALKLEY-BLACK	03/16/10	0075247
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250444 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon		Work Order #: LWN941AC	LCS Lot-Sample#: A0C160000-247		
	94	(51 - 128)	MSA WALKLEY-BLACK	03/16/10	0075247
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B250444 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon	Work Order #: LWN941AC			LCS Lot-Sample#: A0C160000-247			
	2400	2200	mg/kg	94	MSA WALKLEY-BLACK	03/16/10	0075247
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250444 **Work Order #...:** LV3G5-SMP **Matrix.....:** SO
LV3G5-DUP
Date Sampled...: 02/24/10 14:45 **Date Received..:** 02/25/10
% Moisture.....: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250444-001		
	87.0	87.6	%	0.77	(0-20)	MCAWW 160.3 MOD	03/15-03/16/10	0074188

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250444 **Work Order #...:** LWLA2-SMP LWLA2-DUP **Matrix.....:** SOLID

Date Sampled...: 03/10/10 **Date Received..:** 03/12/10

% Moisture.....: 8.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0C120529-001		
	91.7	86.1	%	6.3	(0-20)	MCAWW 160.3 MOD	03/15-03/16/10	0074188

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250444 **Work Order #...:** LV2JT-SMP **Matrix.....:** SOLID
LV2JT-DUP
Date Sampled...: 02/23/10 13:25 **Date Received..:** 02/24/10
% Moisture.....: 18

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon						SD Lot-Sample #: A0B240511-001		
	1200	1300	mg/kg	11	(0-20)	MSA WALKLEY-BLACK	03/16/10	0075247

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SUPPORTIVE RAW DATA

			TestAmerica, North Canton			
		Percent Total Solid/Percent Moisture Logsheet				
		Method 160.3, 160.5, D2216-90, D1553-83				
Analysis	TS			Batch		74188
Prep Date	3/15/2010	Time In	13:10	Analyst	TH	WETCHEM
Anal date	3/16/2010	Time Out	7:00	RL	10	
Oven	**2**	Balance	**6**	Due Date:	**3/17/2010**	
Sample	Tare	Wet	Dry	Result TS	Result MS	Time
ID	wt	wt	wt	%	%	
BLANK	4.586	4.6723	4.6606	2.88	ND	9:37
LWKW91AA	4.586	11.1027	9.5200	75.713	24.287	9:38
LWKXA1AA	4.586	15.5964	13.2988	79.132	20.868	9:38
LWKXD1AA	4.586	17.5273	14.6270	77.589	22.411	9:38
LWK0X1AA	4.586	9.7737	7.3174	52.651	47.349	9:38
LWK0L1AA	4.586	16.4201	11.1905	55.809	44.191	9:38
LWK0M1AA	4.586	14.2245	10.8476	64.964	35.036	9:39
LWK0N1AA	4.586	16.3671	9.6175	42.708	57.292	9:39
LV3G51AK X	4.586	9.3450	8.7572	87.649	12.351	9:39
LV3G51AH	4.586	8.5368	8.0222	86.975	13.025	9:39
LV3G91AH	4.586	18.0956	15.6482	81.884	18.116	9:39
LWLDR1AA	4.586	10.8982	10.0717	86.906	13.094	9:40
LWLD21AG	4.586	9.7150	9.0291	86.627	13.373	9:40
LWLLT1AC	4.586	15.4028	10.1297	51.251	48.749	9:40
LWLL31AC	4.586	7.8535	6.0176	43.813	56.187	9:40
LWL371AA	4.586	9.4086	8.4739	80.618	19.382	9:41
LWL8G1AD	4.586	15.4826	13.6988	83.630	16.370	9:41
LWKT31AA	4.586	12.5538	11.8675	91.387	8.613	9:41
LWKT81AA	4.586	14.2772	12.4349	80.990	19.010	9:41
LWKVA1AA	4.586	12.5692	8.9955	55.235	44.765	9:41
LWKVE1AA	4.586	11.9693	8.5556	53.765	46.235	9:42
LWLA21AD X	4.586	10.1806	9.4014	86.072	13.928	9:42
LWLA21AA	4.586	10.1710	9.7052	91.660	8.340	9:42

			TestAmerica, North Canton			
			Total Organic Carbon Titrimetric Logsheet			
			Methods of Soil Analysis, Walkley-Black			
Prep Date	3/16/2010			Batch	0075247	
Anal Date	3/16/2010			Lcs No.	TC0005	
				Lcs prep dat	3/16/2010	
Analyst	MFG			RL	1000 MG/KG	
Titrant				Standardization		
Name:	Ferrous sulfate			Date	3/16/2010	
Normality	0.486			Intials	MFG	
Sample No.	Sample Vol	dil	Titrant Vol (ml)	Final Conc mg/kg	QC/Calc	Time
BLANK	2.5	1	20.55	20		13:56
LCS	2.5	1	17.65	2218	94.40%	13:56
LV2JT	2.48	1	19.3	975		13:58
LV2JT-X	2.49	1	19.15	1086		13:58
LV3G5	2.53	1	19.35	919		13:58
LV3G9	2.49	1	19.95	477		13:58
LV7F0	2.48	1	18.3	1740		13:58
LV7F4	2.51	1	19.65	699		13:58
LV876	2.47	1	19.7	672		13:58
LV878	2.53	1	19.1	1106		13:58
K Dichromate:	***WR91023***		***Ferroin Ind:***	***WR90825***		
Ferrous Sulfate:	***WR00018***		***H2SO4:***	***WR00140***		
Stnd 1	***20.7***					
Stnd 2	***20.5***					
Stnd 3	***20.5***					

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0B250444	1		LV3G51AJ	Carbon, Total Organic "TOC" (WALKLEY) - Solids	03/16/10	Melissa Fuller-Gustavel	03/16/10	Melissa Fuller-Gustavel
A0B250444	1		LV3G51AH	Solids, Percent (as TS - 160.3 MOD) - Solids	03/15/10	Tom Harshman	03/16/10	Tom Harshman
A0B250444	1	X	LV3G51AK	Solids, Percent (as TS - 160.3 MOD) - Solids	03/15/10	Tom Harshman	03/16/10	Tom Harshman
A0B250444	2		LV3G91AJ	Carbon, Total Organic "TOC" (WALKLEY) - Solids	03/16/10	Melissa Fuller-Gustavel	03/16/10	Melissa Fuller-Gustavel
A0B250444	2		LV3G91AH	Solids, Percent (as TS - 160.3 MOD) - Solids	03/15/10	Tom Harshman	03/16/10	Tom Harshman

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BURLINGTON DATA

TestAmerica
South Burlington, VT

Sample Data Summary Package

0B250444

TestAmerica Laboratories, Inc.

March 24, 2010

Mr. Mark Loeb
TestAmerica, Inc.
4101 Shuffel Drive NW
North Canton, OH 44720

Re: Laboratory Project No. 29008
Case: RAVENNA; SDG: 0B250444

Dear Mr. Loeb:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on February 26th, 2010. Laboratory identification numbers were assigned, and designated as follows:

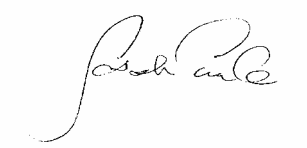
Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 02/26/10 ETR No: 136190		
821681	ATASB-007-5131-SO	02/24/10	SOLID
821682	ATASB-007-5132-SO	02/24/10	SOLID

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,



Joseph Carabillo
Project Manager

Chain of Custody

TestAmerica Laboratories, Inc.

Laboratory **TestAmerica Burlington**
30 Community Drive Suite 11
South Burlington, VT 05403

SAMPLE ANALYSIS REQUISTION
Lab Request SR118061

Report Package: **Expanded Deliverables**
Need Analytical Report 2010-03-18

Client Code: 366660

Project Manager: MARK LOEB

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0B250444-1	LV3G5	ATASB-007-5131-SO	2010-02-24 14:45	SOLID Porosity USACE EM1110-2-1906 AppII
A0B250444-1	LV3G5	ATASB-007-5131-SO	2010-02-24 14:45	SOLID, Bulk Density ASTM D5057
A0B250444-1	LV3G5	ATASB-007-5131-SO	2010-02-24 14:45	SOLID, Moisture Content ASTM D2216
A0B250444-1	LV3G5	ATASB-007-5131-SO	2010-02-24 14:45	SOLID, TOCa 415.1/9060/or Walkley Black
A0B250444-1	LV3G5	ATASB-007-5131-SO	2010-02-24 14:45	SOLID, Grain Size Fraction ASTM D422
A0B250444-1	LV3G5	ATASB-007-5131-SO	2010-02-24 14:45	SOLID, Permeability, K ASTM D5084/2434
A0B250444-2	LV3G9	ATASB-007-5132-SO	2010-02-24 15:00	SOLID Porosity USACE EM1110-2-1906 AppII
A0B250444-2	LV3G9	ATASB-007-5132-SO	2010-02-24 15:00	SOLID, Bulk Density ASTM D5057
A0B250444-2	LV3G9	ATASB-007-5132-SO	2010-02-24 15:00	SOLID, Moisture Content ASTM D2216
A0B250444-2	LV3G9	ATASB-007-5132-SO	2010-02-24 15:00	SOLID, TOCa 415.1/9060/or Walkley Black
A0B250444-2	LV3G9	ATASB-007-5132-SO	2010-02-24 15:00	SOLID, Grain Size Fraction ASTM D422

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 2/25/10 1305

Relinquished by: _____ Date/Time: _____

Received for lab by: _____ Date/Time: 2/26/10 1030

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

TestAmerica Laboratories, Inc.

Laboratory **TestAmerica Burlington**
30 Community Drive Suite 11
South Burlington, VT 05403

SAMPLE ANALYSIS REQUISTION

Lab Request SR118061

Report Package: **Expanded Deliverables**

Need Analytical Report 2010-03-18

Client Code: 366660

Project Manager: MARK LOEB

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0B250444-2	LV3G9	ATASB-007-5132-SO	2010-02-24 15:00	SOLID, Permeability, K ASTM D5084/2434

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 2/25/10 1305

Relinquished by: _____ Date/Time: _____

Received for lab by: _____ Date/Time: 2/26/10 1030

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

Sample Data Summary – Geotechnical

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
ATASB-007-5131-SO

Lab Name: TestAmerica Burlington | Contract: A0B250444 | SDG No.: 0B250444

Lab Code: TALVT | Case No.: RAVENNA | Lab Sample ID: 821681

Matrix: SOLID | Client: STLOHN | Date Received: 02/26/10

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2216	Moisture Content	03/04/10		%	1	0.0	14.1	
D2937	In-Place Density	03/04/10		g/cm3	1	0.0	1.88	
D854	Specific Gravity	03/10/10			1		2.735	
POROSITY	Calculation (D2937+D854)	03/15/10		%	1	0.1	31.3	

Printed on: 03/15/10 10:14 AM

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
ATASB-007-5132-SO

Lab Name: TestAmerica Burlington | Contract: A0B250444 | SDG No.: 0B250444

Lab Code: TALVT | Case No.: RAVENNA | Lab Sample ID: 821682

Matrix: SOLID | Client: STLOHN | Date Received: 02/26/10

% Solids:

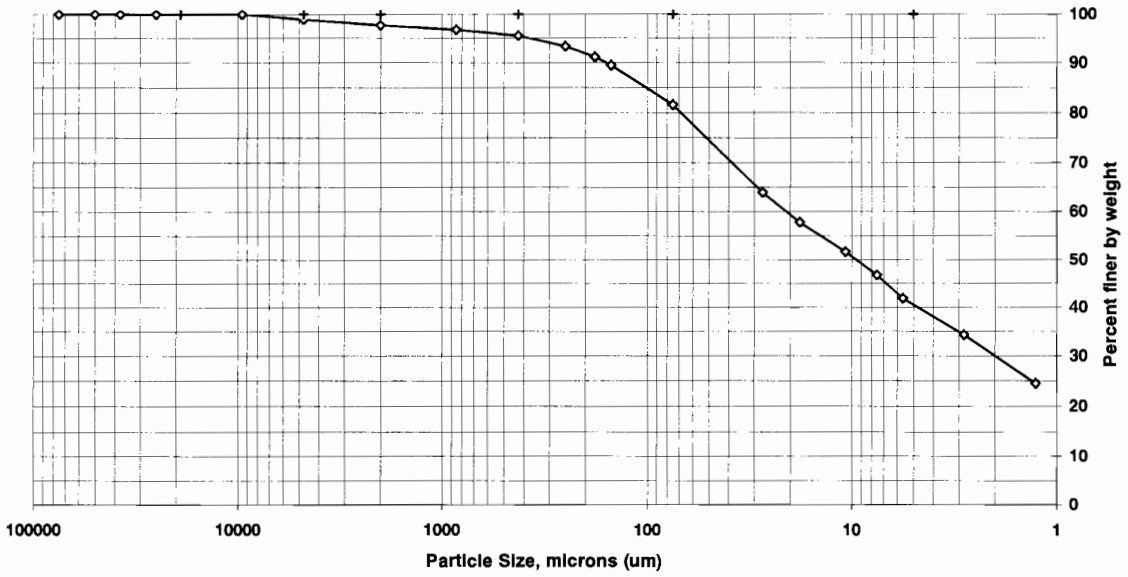
Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2216	Moisture Content	03/04/10		%	1	0.0	19.9	
D2937	In-Place Density	03/04/10		g/cm3	1	0.0	1.34	
D854	Specific Gravity	03/10/10			1		2.693	
POROSITY	Calculation (D2937+D854)	03/15/10		%	1	0.1	50.3	

Printed on: 03/15/10 10:14 AM

Particle Size of Soils by ASTM D422

Client Code:	STLOHN	**SDG:**	0B250444	**Date Received:**	2/26/2010
Sample ID:	ATASB-007-5131-SO	**ETR(s):**	136190	**Start Date:**	3/3/2010
Lab ID:	821681			**End Date:**	3/8/2010

Percent Solids:	87.6%	**Non-soil material:**	na
Specific Gravity:	2.735	**Shape (> #10):**	angular
Maximum Particle Size:	9.5 mm	**Hardness (> #10):**	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	98.9	1.1
#10	2000	97.7	1.2
#20	850	96.8	1.0
#40	425	95.5	1.3
#60	250	93.3	2.2
#80	180	91.1	2.2
#100	150	89.4	1.7
#200	75	81.7	7.8
Hydrometer	27.3	63.9	17.7
|	17.9	57.8	6.1
|	10.7	51.7	6.1
|	7.5	46.8	4.9
|	5.6	41.9	4.9
|	2.8	34.3	7.6
V	1.3	24.5	9.8

Soil Classification	Percent of Total Sample
Gravel	1.1
Sand	17.3
Coarse Sand	1.2
Medium Sand	2.3
Fine Sand	13.8
Silt	39.8
Clay	41.9

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

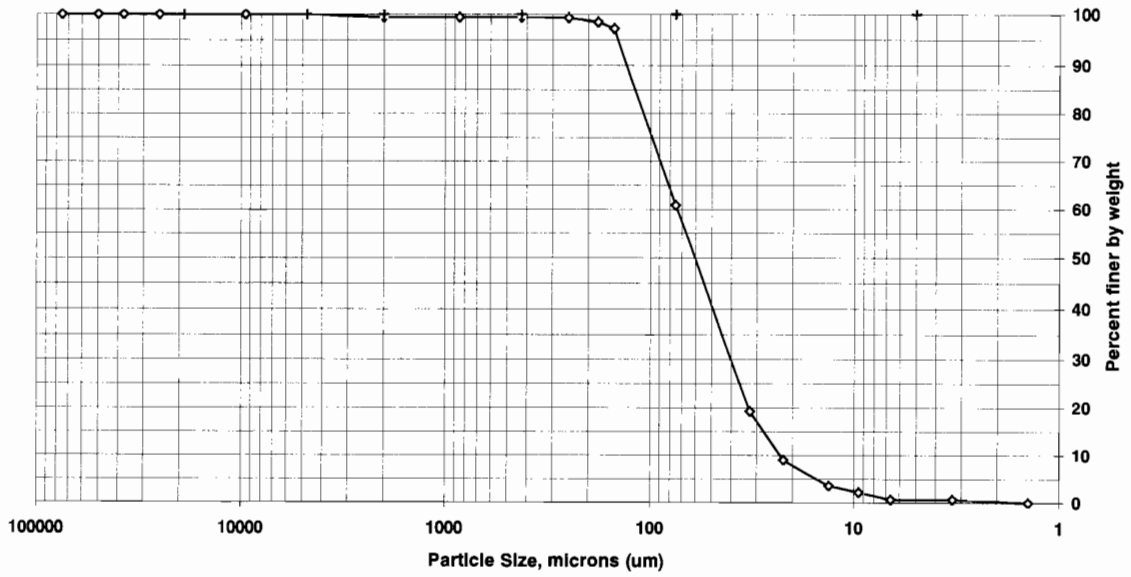
FSL024:07.29.05:0
TestAmerica Burlington

0B250444PS.xls 3/15/2010

Particle Size of Soils by ASTM D422

Client Code:	STLOHN	**SDG:**	0B250444	**Date Received:**	2/26/2010
Sample ID:	ATASB-007-5132-SO	**ETR(s):**	136190	**Start Date:**	3/3/2010
Lab ID:	821682			**End Date:**	3/8/2010

Percent Solids:	83.4%	**Non-soil material:**	na
Specific Gravity:	2.693	**Shape (> #10):**	angular
Maximum Particle Size:	Crs sand	**Hardness (> #10):**	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.4	0.6
#20	850	99.4	0.0
#40	425	99.4	0.0
#60	250	99.3	0.1
#80	180	98.5	0.8
#100	150	97.2	1.3
#200	75	60.9	36.3
Hydrometer	32.4	19.3	41.6
|	22.1	9.0	10.3
|	13.3	3.5	5.5
|	9.5	2.2	1.4
|	6.6	0.7	1.5
|	3.3	0.7	0.0
V	1.4	0.0	0.7

Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	39.1
Coarse Sand	0.6
Medium Sand	0.0
Fine Sand	38.6
Silt	60.2
Clay	0.7

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

FSL024:07.29.05:0
TestAmerica Burlington

0B250444PS.xls 3/15/2010

Sample Handling

ORIGIN ID: PHDA
AL HAIDET
TEST AMERICA
4101 SHUFFEL DR

NORTH CANTON, OH 44720
UNITED STATES US

SHIP DATE: 26FEB10
ACTWGT: 27.9 LB
CAD: 507102/CAFE2434

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA
30 COMMUNITY DRIVE

SOUTH BURLINGTON VT 05403

DEPT: AL HAIDET

FedEx Express

9784 4671 6584

FRI - 26FEB AA
PRIORITY OVERNIGHT

XH BTVA

05403
VT-US
BTV

TestAmerica Burlington
SAMPLE RECEIPT & LOG IN CHECKLIST

Client: STLOHN	Date Received: 04/26/10	Log In Date: 04/03/10
ETR: 136190	Time Received: 1630	By: CK
SDG: 0B250444	Received By: CK	Signature: Christine Kelly
Project: 29008	# Coolers Received: 1 Box	PM Signature: TC
Samples Delivered By: X Shipping Service ☐ Courier ☐ Hand ☐ Other (specify)		Date: 3.4.10
List Air bill Number(s) or Attach a photocopy of the Air Bill:		

COOLER SCREEN	YES	NO	NA	COMMENTS
There is ***no*** evidence to indicate tampering	X			
Custody seals are present and intact	X			
Custody seal numbers are present		X		
If yes, list custody seal numbers:				

Thermal Preservation Type: ☐ Wet Ice ☐ Blue Ice X None ☐ Other (specify)

IR Gun ID: 96 Correction Factor (CF) = 0 °C

Cooler 1:	11.3 °C	Cooler 6	°C	Cooler 11	°C	Cooler 16	°C
Cooler 2:	°C	Cooler 7	°C	Cooler 12	°C	Cooler 17	°C
Cooler 3:	°C	Cooler 8	°C	Cooler 13	°C	Cooler 18	°C
Cooler 4:	°C	Cooler 9	°C	Cooler 14	°C	Cooler 19	°C
Cooler 5	°C	Cooler 10	°C	Cooler 15	°C	Cooler 20	°C

Unless otherwise documented, the recorded temperature readings are adjusted readings to account for the CF of the IR Gun

EPA Criteria: 0-6°C, except for air and geo samples which should be at ambient temperature and tissue samples, which may be frozen.

Some clients require thermal preservation criteria of 2-4°C or other such criteria. The PM must notify SM when alternate criteria is specified.

SAMPLE CONDITION	YES	NO	NA	COMMENTS
Sample containers were received intact	X			
Legible sample labels are affixed to each container	X			

CHAIN OF CUSTODY (COC)	YES	NO	NA	COMMENTS
COC is present and includes the following information for each container:				
• Sample ID / Sample Description	X			
• Date of Sample Collection	X			
• Time of Sample Collection	X			
• Identification of the Sampler		X		
• Preservation Type		X		
• Requested Tests Method(s)	X			
• Necessary Signatures	X			
Internal Chain of Custody (ICOC) Required		X		
If yes to above, ICOC Record initiated for every Worksheet			X	

SAMPLE INTEGRITY / USABILITY	YES	NO	NA	COMMENTS
The sample container matches the COC	X			
Appropriate sample containers were received for the tests requested	X			
Samples were received within holding time	X			
Sufficient amount of sample is provided for requested analyses	X			
VOA vials do not have headspace or a bubble >6mm (1/4" diameter)			X	
Appropriate preservatives were used for the tests requested			X	
pH of inorganic samples checked and is within method specification			X	
If no, attach Inorganic Sample pH Adjustment Form			X	

ANOMALY / NCR SUMMARY

FSR002:12.19.07:3
TestAmerica Burlington

GeoTesting express
a subsidiary of Geocomp Corporation

Client:	TestAmerica Laboratories, Inc.		
Project Name:	Ravenna		
Project Location:	---		
GTX #:	9693		
Start Date:	3/8/2010	Tested By:	ema
End Date:	3/11/2010	Checked By:	jdt
Boring #:	---		
Sample #:	AOB250444-1		
Depth:	---		
Visual Description:	Moist, yellowish brown silty clay		

Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter by ASTM D 5084
Constant Volume

Sample Type:	tube	Permeant Fluid:	de-aired tap water
Orientation:	Vertical	Cell #:	1/1/1

Sample Preparation: Extruded from tube, cut, trimmed and placed into permeameter at as-received density and moisture content. Trimmings moisture content = 14.5%.

Parameter	Initial	Final
Height, in	2.14	2.15
Diameter, in	2.85	2.84
Area, in^2	6.38	6.33
Volume, in^3	13.7	13.6
Mass, g	489	494
Bulk Density, pcf	136	138
Moisture Content, %	14.8	15.9
Dry Density, pcf	119	119
Degree of Saturation, %	---	99

B COEFFICIENT DETERMINATION

Cell Pressure, psi:	95.1	Pressure Increment, psi:	5.02
Sample Pressure, psi:	90.0	B Coefficient:	0.96

FLOW DATA

Date	Trial #	Pressure, psi		Manometer Readings			Elapsed Time,	Gradient	Permeability K,	Temp,		Permeability K @ 20 °C,
		Cell	Sample	Z_1	Z_2	Z_1-Z_2	sec		cm/sec	°C	R_t	cm/sec
03/10	2	90	85	8.0	7.5	0.5	42	18.5	5.1E-07	20	1.000	5.1E-07
03/10	3	90	85	8.0	7.5	0.5	43	18.5	5.0E-07	20	1.000	5.0E-07
03/10	4	90	85	8.0	7.5	0.5	45	18.5	4.8E-07	20	1.000	4.8E-07
03/10	5	90	85	8.0	7.5	0.5	45	18.5	4.8E-07	20	1.000	4.8E-07

PERMEABILITY AT 20° C: 4.9 x 10^{-7} cm/sec (@ 5 psi effective stress)

GeoTesting express
a subsidiary of Geocomp Corporation

Client:	TestAmerica Laboratories, Inc		
Project Name:	Ravenna		
Project Location:	---		
GTX #:	9693		
Start Date:	3/8/2010	Tested By:	ema
End Date:	3/10/2010	Checked By:	jdt
Boring #:	---		
Sample #:	AOB250444-2		
Depth:	---		
Visual Description:	Moist, brownish yellow silt with sand		

Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter by ASTM D 5084
Constant Gradient

Sample Type:	tube	Permeant Fluid:	de-aired tap water
Orientation:	Vertical	Cell #:	3/9

Sample Preparation: Extruded from tube, cut, trimmed and placed into permeameter at as-received density and moisture content. Trimmings moisture content = 18.6%.

Parameter	Initial	Final
Height, in	2.54	2.38
Diameter, in	2.80	2.85
Area, in^2	6.16	6.38
Volume, in^3	15.6	15.2
Mass, g	454	489
Bulk Density, pcf	110	122
Moisture Content, %	18.3	27.4
Dry Density, pcf	93.3	96.1
Degree of Saturation, %	---	96

B COEFFICIENT DETERMINATION

Cell Pressure, psi:	95.0	Pressure Increment, psi:	4.95
Sample Pressure, psi:	90.5	B Coefficient:	0.97

FLOW DATA

Date	Time, sec	Pressure, psi Cell	Inlet	Outlet	Gradient	Flow Volume, cc In	Out	Δ In	Δ Out	Temp, °C	R_t	Permeability K @ 20 °C, cm/sec
03/09	---	90.0	85.3	84.8	5.8	10.90	14.10	---	---	---	---	---
03/09	115	90.0	85.3	84.8	5.8	14.00	11.00	3.10	3.10	20	1.000	1.1E-04
03/09	----	90.0	85.3	84.8	5.8	10.90	14.10	---	---	---	---	---
03/09	140	90.0	85.3	84.8	5.8	14.90	10.10	4.00	4.00	20	1.000	1.2E-04
03/09	----	90.0	85.3	84.8	5.8	10.90	14.00	---	---	---	---	---
03/09	90	90.0	85.3	84.8	5.8	13.90	11.00	3.00	3.00	20	1.000	1.4E-04
03/09	----	90.0	85.3	84.8	5.8	11.10	14.00	---	---	---	---	---
03/09	70	90.0	85.3	84.8	5.8	13.60	11.50	2.50	2.50	20	1.000	1.5E-04

PERMEABILITY AT 20° C: 1.3 x 10^{-4} cm/sec (@ 5 psi effective stress)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 172819.00.09456.00.9200.02.200

RVAAP PBA2008 17 AOCs RI

Lot #: A0B180429

CONTRACT NO: W912QR-04-D-0028

DELIVERY ORDER: 0001

Marie Simpson

SAIC
151 LaFayette Drive
PO Box 2502
Oak Ridge, TN 37831

TESTAMERICA LABORATORIES, INC.

Unless noted otherwise, the test results reported herein meet all requirements of NELAC and the current version of the DoD QSM.

Approved for release.
Mark J. Loeb
Project Manager II
3/17/2010 3:08 PM

Mark J. Loeb
Project Manager
mark.loeb@testamericainc.com

March 17, 2010

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0B180429

The following report contains the analytical results for fifteen solid samples submitted to TestAmerica North Canton by SAIC from the RVAAP PBA2008 17 AOCS RI Site, project number 172819.00.09456.00.9200.02.200. The samples were received February 17, 2010, according to documented sample acceptance procedures.

The 8330B Explosives, 8330M Nitroguanidine Propellant, and 353.2 Nitrocellulose Propellant analyses were performed at the TestAmerica West Sacramento laboratory. Refer to TestAmerica West Sacramento narrative included in their data package for additional information.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Heather Miller, Jenny Vance, Marie Simpson, and Richard Sprinzl on March 10, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Mark J. Loeb, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.2 and 3.3°C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 0057113 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

For sample(s) B12SS-038M-5040-SO(VOC), the QCMRL opener had three compounds above 130%. The compounds are Bromomethane at 133.06%, Carbon Tetrachloride at 135.24%, and Toluene at 134.03%. All three compounds had no reportable results in this sample. The QCMRL closer had 1 out of the 3 compounds above 130% which is Carbon Tetrachloide at 134.43%. The QCMDL detected Carbon Tetrachloride and all the other compounds as well.

CASE NARRATIVE (continued)

GC/MS SEMIVOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for B12SS-036M-5038-SO had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 0054027 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

There was no corrective action for BN surrogate out low sample(s) B12SS-036M-5038-SO (MS).

PESTICIDES-8081

Sample(s) ATASS-015M-5036-SO and B12SS-038M-5040-SO had elevated reporting limits due to thickness or color of the extract.

TCMX is reported from the front confirmation column for sample(s) ATASS-015M-5036-SO.

Heptachlor Epoxide is reported from the front confirmation column for sample(s) B12SS-038M-5040-SO (MS/MSD) because of matrix interference on the primary column.

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

NITROAROMATICS AND NITRAMINES-8330

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

CASE NARRATIVE (continued)

NITROAROMATICS AND NITRAMINES-8330 (continued)

The analyses reported herein were performed using an instrument that has two columns(GC) or detectors(HPLC), one of which is used to confirm the results of the other. Peak interferences may result in some cases, which cause a quantitation difference between the two columns/detectors. If the difference between the two results is greater than 40%, the higher of the two results or the primary column/detector is normally reported. The reported results are flagged with "PG".

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for batch(es) 0053030 due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

The matrix spike/matrix spike duplicate(s) for batch(es) 0053030 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Some reporting limits are lower than our standard reporting limit (SRL) but are supported by the laboratory's MDL and/or IDLs; however, there are no standards in the calibration curve low enough to support these values(s). The continuing calibration blanks and method blanks may not support the lower RL.

No ICP MS Form IX or Hg was provided for batch(es) 0053030. The serial dilution was performed on a different sample from the same QC batch(es).

Per client approval, it is acceptable to use the criteria for method blanks (<1/2 the RL or <1/10 the lowest concentration in the associated samples) for CCBs for metals analysis.

CASE NARRATIVE (continued)

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analytes(s).

The matrix spike/matrix spike duplicate(s) for batch(es) 0056149 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

MANUAL INTEGRATION SUMMARY

Manual integrations were performed on samples(s) reported herein. A list of samples and analytes for which manual integration was necessary is provided following this Case Narrative.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

MANUAL INTEGRATION SUMMARY

Lot A0B180429

Client ID: B12SS-037M-5039-SO
Compound Name: Benzo(b)fluoranthene
Instrument ID: a4hp7.i
File Name: LVTQ11AG.D
Inj. Date and Time: 02-MAR-2010 16:19
Manual Integration Reason: Unknown

Client ID: B12SS-038M-5040-SO
Compound Name: Benzo(b)fluoranthene
Instrument ID: a4hp7.i
File Name: LVTQ31A7.D
Inj. Date and Time: 02-MAR-2010 13:47
Manual Integration Reason: Poor Chromatography

Client ID: B12SS-038M-5040-SO
Compound Name: 4,4'-DDE
Instrument ID: a2hp3.i
File Name: 026F2601.D
Inj. Date and Time: 08-MAR-2010 21:14
Manual Integration Reason: Analyte not Identified by the Data System

Client ID: B12SS-038M-5040-SO
Compound Name: 4,4'-DDE
Instrument ID: a2hp3.i
File Name: 026F2601.D
Inj. Date and Time: 08-MAR-2010 21:14
Manual Integration Reason: Analyte not Identified by the Data System

Client ID: B12SS-036M-5038-SO
Compound Name: Acetophenone
Instrument ID: a4hp7.i
File Name: LVTQQ1A5.D
Inj. Date and Time: 02-MAR-2010 15:22
Manual Integration Reason: Peak not found

Client ID: B12SS-036M-5038-SO
Compound Name: Benzo(b)fluoranthene
Instrument ID: a4hp7.i
File Name: LVTQQ1A5.D
Inj. Date and Time: 02-MAR-2010 15:22
Manual Integration Reason: Peak not found

Client ID: B12SS-036M-5038-SO
Compound Name: Benzo(k)fluoranthene
Instrument ID: a4hp7.i
File Name: LVTQQ1A5.D
Inj. Date and Time: 02-MAR-2010 15:22
Manual Integration Reason: Peak not found

MANUAL INTEGRATION SUMMARY

Lot A0B180429 (Continued)

Client ID: B12SS-036M-5038-SO
Compound Name: 2-Chlorophenol
Instrument ID: a4hp7.i
File Name: LVTQQ1A7.D
Inj. Date and Time: 02-MAR-2010 15:41
Manual Integration Reason: Peak not found

Client ID: B12SS-036M-5038-SO
Compound Name: bis(2-Chloroisopropyl)ether
Instrument ID: a4hp7.i
File Name: LVTQQ1A7.D
Inj. Date and Time: 02-MAR-2010 15:41
Manual Integration Reason: Peak not found

Client ID: B12SS-036M-5038-SO
Compound Name: N-Nitrosodimethylamine
Instrument ID: a4hp7.i
File Name: LVTQQ1A8.D
Inj. Date and Time: 02-MAR-2010 16:00
Manual Integration Reason: Peak not found

Client ID: B12SS-036M-5038-SO
Compound Name: bis(2-Chloroisopropyl)ether
Instrument ID: a4hp7.i
File Name: LVTQQ1A8.D
Inj. Date and Time: 02-MAR-2010 16:00
Manual Integration Reason: Peak not found

Client ID: ATASS-015M-5036-SO
Compound Name: AROCLOR-1016
Instrument ID: a2hp13.i
File Name: 011F1101.D
Inj. Date and Time: 01-MAR-2010 10:52
Manual Integration Reason: Analyte not Identified by the Data System

Client ID: ATASS-015M-5036-SO
Compound Name: AROCLOR-1260
Instrument ID: a2hp13.i
File Name: 011F1101.D
Inj. Date and Time: 01-MAR-2010 10:52
Manual Integration Reason: Analyte not Identified by the Data System

Client ID: ATASS-015M-5036-SO
Compound Name: AROCLOR-1016
Instrument ID: a2hp13.i
File Name: 012F1201.D
Inj. Date and Time: 01-MAR-2010 11:07
Manual Integration Reason: Analyte not Identified by the Data System

MANUAL INTEGRATION SUMMARY

Lot A0B180429 (Continued)

Client ID: ATASS-015M-5036-SO
Compound Name: AROCLOR-1260
Instrument ID: a2hp13.i
File Name: 012F1201.D
Inj. Date and Time: 01-MAR-2010 11:07
Manual Integration Reason: Analyte not Identified by the Data System

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0B180429

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
B12SS-036M-5038-SO 02/16/10 10:30 001				
Silver	0.041 J	0.51	mg/kg	SW846 6020
Aluminum	11200	102	mg/kg	SW846 6020
Arsenic	9.8	0.51	mg/kg	SW846 6020
Barium	77.1	1.0	mg/kg	SW846 6020
Beryllium	0.52	0.10	mg/kg	SW846 6020
Calcium	834	204	mg/kg	SW846 6020
Cadmium	0.12 J	0.20	mg/kg	SW846 6020
Cobalt	13.4	0.51	mg/kg	SW846 6020
Chromium	23.3	0.51	mg/kg	SW846 6020
Copper	22.0	0.51	mg/kg	SW846 6020
Iron	21500	51.0	mg/kg	SW846 6020
Potassium	551 B	102	mg/kg	SW846 6020
Magnesium	1780	102	mg/kg	SW846 6020
Manganese	1150 B	10.2	mg/kg	SW846 6020
Sodium	32.3 J	102	mg/kg	SW846 6020
Nickel	17.9	1.0	mg/kg	SW846 6020
Lead	16.3	0.31	mg/kg	SW846 6020
Antimony	0.14 J	0.51	mg/kg	SW846 6020
Selenium	0.81	0.51	mg/kg	SW846 6020
Thallium	0.20	0.20	mg/kg	SW846 6020
Vanadium	22.0	1.0	mg/kg	SW846 6020
Zinc	84.5	4.1	mg/kg	SW846 6020
Mercury	0.048 J	0.10	mg/kg	SW846 7471A
Benzo(a)anthracene	26	6.8	ug/kg	SW846 8270C
Benzo(b)fluoranthene	51	6.8	ug/kg	SW846 8270C
Benzo(k)fluoranthene	16	6.8	ug/kg	SW846 8270C
Benzo(ghi)perylene	20	6.8	ug/kg	SW846 8270C
Benzo(a)pyrene	27	6.8	ug/kg	SW846 8270C
Chrysene	31	6.8	ug/kg	SW846 8270C
Fluoranthene	33	6.8	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	19	6.8	ug/kg	SW846 8270C
Naphthalene	26	6.8	ug/kg	SW846 8270C
Phenanthrene	11	6.8	ug/kg	SW846 8270C
Pyrene	27	6.8	ug/kg	SW846 8270C
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
B12SS-037M-5039-SO 02/16/10 14:17 002				
Silver	0.037 J	0.51	mg/kg	SW846 6020
Aluminum	11800	102	mg/kg	SW846 6020
Arsenic	11.1	0.51	mg/kg	SW846 6020
Barium	68.3	1.0	mg/kg	SW846 6020
Beryllium	0.51	0.10	mg/kg	SW846 6020

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0B180429

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
B12SS-037M-5039-SO 02/16/10 14:17 002				
Calcium	737	204	mg/kg	SW846 6020
Cadmium	0.093 J	0.20	mg/kg	SW846 6020
Cobalt	9.3	0.51	mg/kg	SW846 6020
Chromium	36.1	0.51	mg/kg	SW846 6020
Copper	15.3	0.51	mg/kg	SW846 6020
Iron	24100	51.0	mg/kg	SW846 6020
Potassium	716 B	102	mg/kg	SW846 6020
Magnesium	2140	102	mg/kg	SW846 6020
Manganese	466 B	1.0	mg/kg	SW846 6020
Sodium	35.6 J	102	mg/kg	SW846 6020
Nickel	25.4	1.0	mg/kg	SW846 6020
Lead	17.0	0.31	mg/kg	SW846 6020
Antimony	0.11 J	0.51	mg/kg	SW846 6020
Selenium	0.82	0.51	mg/kg	SW846 6020
Thallium	0.18 J	0.20	mg/kg	SW846 6020
Vanadium	21.4	1.0	mg/kg	SW846 6020
Zinc	48.7	4.1	mg/kg	SW846 6020
Mercury	0.044 J	0.10	mg/kg	SW846 7471A
Benzo(b)fluoranthene	6.5 J	6.8	ug/kg	SW846 8270C
Chrysene	7.2	6.8	ug/kg	SW846 8270C
Fluoranthene	12	6.8	ug/kg	SW846 8270C
Naphthalene	16	6.8	ug/kg	SW846 8270C
Phenanthrene	7.5	6.8	ug/kg	SW846 8270C
Pyrene	7.8	6.8	ug/kg	SW846 8270C
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
B12SS-037M-6049-FD 02/16/10 14:17 003				
Silver	0.034 J	0.51	mg/kg	SW846 6020
Aluminum	11900	102	mg/kg	SW846 6020
Arsenic	11.4	0.51	mg/kg	SW846 6020
Barium	67.5	1.0	mg/kg	SW846 6020
Beryllium	0.54	0.10	mg/kg	SW846 6020
Calcium	749	204	mg/kg	SW846 6020
Cadmium	0.085 J	0.20	mg/kg	SW846 6020
Cobalt	9.4	0.51	mg/kg	SW846 6020
Chromium	28.6	0.51	mg/kg	SW846 6020
Copper	15.8	0.51	mg/kg	SW846 6020
Iron	25000	51.0	mg/kg	SW846 6020
Potassium	783 B	102	mg/kg	SW846 6020
Magnesium	2280	102	mg/kg	SW846 6020
Manganese	459 B	1.0	mg/kg	SW846 6020
Sodium	42.1 J	102	mg/kg	SW846 6020

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0B180429

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
B12SS-037M-6049-FD 02/16/10 14:17 003				
Nickel	22.4	1.0	mg/kg	SW846 6020
Lead	14.7	0.31	mg/kg	SW846 6020
Antimony	0.10 J	0.51	mg/kg	SW846 6020
Selenium	0.88	0.51	mg/kg	SW846 6020
Thallium	0.18 J	0.20	mg/kg	SW846 6020
Vanadium	20.9	1.0	mg/kg	SW846 6020
Zinc	50.0	4.1	mg/kg	SW846 6020
Mercury	0.047 J	0.10	mg/kg	SW846 7471A
Chrysene	7.6	6.8	ug/kg	SW846 8270C
Fluoranthene	12	6.8	ug/kg	SW846 8270C
Naphthalene	14	6.8	ug/kg	SW846 8270C
Phenanthrene	7.0	6.8	ug/kg	SW846 8270C
Pyrene	8.1	6.8	ug/kg	SW846 8270C
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
B12SS-038M-5040-SO 02/16/10 13:10 004				
HMX	0.012	0.25	mg/kg	SW846 8330B
	Qualifiers: J,PG			
Silver	0.037 J	0.51	mg/kg	SW846 6020
Aluminum	12600	102	mg/kg	SW846 6020
Arsenic	10.3	0.51	mg/kg	SW846 6020
Barium	65.0	1.0	mg/kg	SW846 6020
Beryllium	0.57	0.10	mg/kg	SW846 6020
Calcium	586	204	mg/kg	SW846 6020
Cadmium	0.13 J	0.20	mg/kg	SW846 6020
Cobalt	11.3	0.51	mg/kg	SW846 6020
Chromium	33.8	0.51	mg/kg	SW846 6020
Copper	11.1	0.51	mg/kg	SW846 6020
Iron	22300	51.0	mg/kg	SW846 6020
Potassium	755 B	102	mg/kg	SW846 6020
Magnesium	2260	102	mg/kg	SW846 6020
Manganese	919 B	1.0	mg/kg	SW846 6020
Sodium	39.5 J	102	mg/kg	SW846 6020
Nickel	22.6	1.0	mg/kg	SW846 6020
Lead	19.0	0.31	mg/kg	SW846 6020
Antimony	0.11 J	0.51	mg/kg	SW846 6020
Selenium	0.86	0.51	mg/kg	SW846 6020
Thallium	0.18 J	0.20	mg/kg	SW846 6020
Vanadium	23.4	1.0	mg/kg	SW846 6020
Zinc	53.6	4.1	mg/kg	SW846 6020
Mercury	0.055 J	0.10	mg/kg	SW846 7471A
Benzo(b)fluoranthene	11 J	51	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

A0B180429

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
B12SS-038M-5040-SO 02/16/10 13:10 004				
Benzyl alcohol	30 J	340	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	37 J	340	ug/kg	SW846 8270C
Fluoranthene	13 J	51	ug/kg	SW846 8270C
2-Methylnaphthalene	10 J	340	ug/kg	SW846 8270C
Naphthalene	14 J	51	ug/kg	SW846 8270C
Phenanthrene	8.1 J	51	ug/kg	SW846 8270C
Pyrene	8.3 J	51	ug/kg	SW846 8270C
Chrysene	7.3 J	51	ug/kg	SW846 8270C
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
Nitrocellulose	0.87 B,J	5.1	mg/kg	MCAWW 353.2
B12SS-038M-5040-SO(VOC) 02/16/10 13:10 005				
Acetone	18 J,B	29	ug/kg	SW846 8260B
2-Butanone	3.5 J,B	29	ug/kg	SW846 8260B
Toluene	0.46 J	7.2	ug/kg	SW846 8260B
Percent Solids	69.5	10.0	%	MCAWW 160.3 MOD
B12SS-033-5041-SO 02/16/10 14:50 006				
Chromium	14.9	0.73	mg/kg	SW846 6020
Percent Solids	68.6	10.0	%	MCAWW 160.3 MOD
B12SS-034-5042-SO 02/16/10 15:00 007				
Chromium	17.5	0.66	mg/kg	SW846 6020
Percent Solids	76.2	10.0	%	MCAWW 160.3 MOD
B12SS-035-5043-SO 02/16/10 14:50 008				
Chromium	16.1	0.63	mg/kg	SW846 6020
Hexavalent Chromium	0.39 J	1.0	mg/kg	SW846 7196A
Percent Solids	79.2	10.0	%	MCAWW 160.3 MOD
ATASS-012-5033-SO 02/17/10 12:35 009				
Chromium	20.7	0.64	mg/kg	SW846 6020
Hexavalent Chromium	1.1	1.0	mg/kg	SW846 7196A
Percent Solids	77.8	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0B180429

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASS-013-5034-SO 02/17/10 12:20 010				
Chromium	16.0	0.63	mg/kg	SW846 6020
Percent Solids	78.8	10.0	%	MCAWW 160.3 MOD
ATASS-014-5035-SO 02/17/10 12:10 011				
Chromium	4.0	0.58	mg/kg	SW846 6020
Percent Solids	86.5	10.0	%	MCAWW 160.3 MOD
ATASS-015M-5036-SO 02/17/10 12:00 012				
Silver	0.026 J	0.51	mg/kg	SW846 6020
Aluminum	13100	102	mg/kg	SW846 6020
Arsenic	12.0	0.51	mg/kg	SW846 6020
Barium	61.9	1.0	mg/kg	SW846 6020
Beryllium	0.54	0.10	mg/kg	SW846 6020
Calcium	5000	204	mg/kg	SW846 6020
Cadmium	0.10 J	0.20	mg/kg	SW846 6020
Cobalt	9.0	0.51	mg/kg	SW846 6020
Chromium	42.3	0.51	mg/kg	SW846 6020
Copper	16.8	0.51	mg/kg	SW846 6020
Iron	26300	51.0	mg/kg	SW846 6020
Potassium	1080 B	102	mg/kg	SW846 6020
Magnesium	3680	102	mg/kg	SW846 6020
Manganese	418 B	1.0	mg/kg	SW846 6020
Sodium	49.8 J	102	mg/kg	SW846 6020
Nickel	31.9	1.0	mg/kg	SW846 6020
Lead	15.0	0.31	mg/kg	SW846 6020
Antimony	0.14 J	0.51	mg/kg	SW846 6020
Selenium	0.86	0.51	mg/kg	SW846 6020
Thallium	0.18 J	0.20	mg/kg	SW846 6020
Vanadium	21.1	1.0	mg/kg	SW846 6020
Zinc	53.7	4.1	mg/kg	SW846 6020
Mercury	0.038 J	0.10	mg/kg	SW846 7471A
bis(2-Ethylhexyl) phthalate	69 J	340	ug/kg	SW846 8270C
2-Methylnaphthalene	9.2 J	340	ug/kg	SW846 8270C
Naphthalene	12 J	51	ug/kg	SW846 8270C
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
Nitrocellulose	2.4 B,J	5.1	mg/kg	MCAWW 353.2

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0B180429

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASS-015M-5036-SO(VOCS) 02/17/10 12:00 013				
Toluene	0.38 J,B	6.7	ug/kg	SW846 8260B
Percent Solids	74.6	10.0	%	MCAWW 160.3 MOD
ATASS-016M-5037-SO 02/17/10 10:45 014				
Silver	0.043 J	0.51	mg/kg	SW846 6020
Aluminum	11400	102	mg/kg	SW846 6020
Arsenic	10.0	0.51	mg/kg	SW846 6020
Barium	70.8	1.0	mg/kg	SW846 6020
Beryllium	0.54	0.10	mg/kg	SW846 6020
Calcium	1100	204	mg/kg	SW846 6020
Cadmium	0.16 J	0.20	mg/kg	SW846 6020
Cobalt	10.6	0.51	mg/kg	SW846 6020
Chromium	25.2	0.51	mg/kg	SW846 6020
Copper	10.1	0.51	mg/kg	SW846 6020
Iron	22300	51.1	mg/kg	SW846 6020
Potassium	661 B	102	mg/kg	SW846 6020
Magnesium	2230	102	mg/kg	SW846 6020
Manganese	1260 B	10.2	mg/kg	SW846 6020
Sodium	31.4 J	102	mg/kg	SW846 6020
Nickel	18.1	1.0	mg/kg	SW846 6020
Lead	18.9	0.31	mg/kg	SW846 6020
Antimony	0.11 J	0.51	mg/kg	SW846 6020
Selenium	0.90	0.51	mg/kg	SW846 6020
Thallium	0.18 J	0.20	mg/kg	SW846 6020
Vanadium	22.1	1.0	mg/kg	SW846 6020
Zinc	49.6	4.1	mg/kg	SW846 6020
Mercury	0.062 J	0.10	mg/kg	SW846 7471A
Percent Solids	97.9	10.0	%	MCAWW 160.3 MOD
ATASS-016M-6047-FD 02/17/10 10:45 015				
PETN	0.11 J	0.50	mg/kg	SW846 8330B
Silver	0.041 J	0.51	mg/kg	SW846 6020
Aluminum	12200	102	mg/kg	SW846 6020
Arsenic	10.8	0.51	mg/kg	SW846 6020
Barium	70.4	1.0	mg/kg	SW846 6020
Beryllium	0.55	0.10	mg/kg	SW846 6020
Calcium	1150	204	mg/kg	SW846 6020
Cadmium	0.16 J	0.20	mg/kg	SW846 6020
Cobalt	10.0	0.51	mg/kg	SW846 6020
Chromium	28.0	0.51	mg/kg	SW846 6020
Copper	10.9	0.51	mg/kg	SW846 6020

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EXECUTIVE SUMMARY - Detection Highlights

A0B180429

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASS-016M-6047-FD 02/17/10 10:45 015				
Iron	24200	51.1	mg/kg	SW846 6020
Potassium	753 B	102	mg/kg	SW846 6020
Magnesium	2350	102	mg/kg	SW846 6020
Manganese	1170 B	10.2	mg/kg	SW846 6020
Sodium	32.5 J	102	mg/kg	SW846 6020
Nickel	20.0	1.0	mg/kg	SW846 6020
Lead	18.1	0.31	mg/kg	SW846 6020
Antimony	0.11 J	0.51	mg/kg	SW846 6020
Selenium	0.85	0.51	mg/kg	SW846 6020
Thallium	0.17 J	0.20	mg/kg	SW846 6020
Vanadium	24.0	1.0	mg/kg	SW846 6020
Zinc	56.6	4.1	mg/kg	SW846 6020
Mercury	0.049 J	0.10	mg/kg	SW846 7471A
Percent Solids	97.9	10.0	%	MCAWW 160.3 MOD

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METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0B180429

PARAMETER	ANALYTICAL METHOD
Hexavalent Chromium	SW846 7196A
ICP-MS (6020)	SW846 6020
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330B
Nitrocellulose as N, 353.2	MCAWW 353.2
Organics by UV/HPLC	SW846 8330 (Modified)
Organochlorine Pesticides	SW846 8081A
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE SUMMARY

SAMPLE SUMMARY

A0B180429

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LVTQQ	001	B12SS-036M-5038-SO	02/16/10	10:30
LVTQ1	002	B12SS-037M-5039-SO	02/16/10	14:17
LVTQ2	003	B12SS-037M-6049-FD	02/16/10	14:17
LVTQ3	004	B12SS-038M-5040-SO	02/16/10	13:10
LVTQ4	005	B12SS-038M-5040-SO(VOC)	02/16/10	13:10
LVTRC	006	B12SS-033-5041-SO	02/16/10	14:50
LVTRM	007	B12SS-034-5042-SO	02/16/10	15:00
LVTRQ	008	B12SS-035-5043-SO	02/16/10	14:50
LVTTQ	009	ATASS-012-5033-SO	02/17/10	12:35
LVTTW	010	ATASS-013-5034-SO	02/17/10	12:20
LVTTX	011	ATASS-014-5035-SO	02/17/10	12:10
LVTT0	012	ATASS-015M-5036-SO	02/17/10	12:00
LVTT7	013	ATASS-015M-5036-SO(VOCS)	02/17/10	12:00
LVTT9	014	ATASS-016M-5037-SO	02/17/10	10:45
LVTVA	015	ATASS-016M-6047-FD	02/17/10	10:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

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SHIPPING AND RECEIVING DOCUMENTS

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Chain of Custody Record

Science Applications International Corporation

COC NO.: RVAAP-PBA08RI-003
Date: 2/17/2010

PROJECT NAME: RVAAP PBA2008 17 AOCs RI
PO NUMBER: PO10025302
PROJECT NUMBER: 172819.00.09456.00.9200.02.200
PROJECT MANAGER: Kevin Jago
AOC: Anchor Test Area (Surface Soil)
Sampler (Signature) (Printed Name):

Laboratory Name: TestAmerica
Address: 4101 Shuffel Street NW, North Canton, Ohio 44720
Attn: Mark Loeb
Phone: 330-966-9387

Sample ID	Station ID	Date Collected	Time Collected	Matrix	Requested Parameters: TAL Metals + Hg (1)	Explosives (2)	SVOCs (3)	Propellants (4)	VOCs (5)	Pesticides (6)	PCBs (7)	PAHs (8)	Hexavalent Chromium (SO) (9)	Hexavalent Chromium (SD) (10)	Total Chromium (11)	Asbestos (12)	Nitrate (13)	No. of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
B12SS-036M-5038-SO	B12ss-036M	2/16/2010	1030	SO	X	X						X						2	MI
B12SS-037M-5039-SO	B12ss-037M	2/16/2010	1417	SO	X	X						X						2	MI
B12SS-037M-6049-FD	B12ss-037M	2/16/2010	1417	SO	X	X						X						2	MI
B12SS-038M-5040-SO	B12ss-038M	2/16/2010	1310	SO	X	X	X	X	X	X	X							3	MI
B12SS-033-5041-SO	B12ss-033	2/16/2010	1450	SO									X		X			1	
B12SS-034-5042-SO	B12ss-034	2/16/2010	1500	SO									X		X			1	
B12SS-035-5043-SO	B12ss-035	2/16/2010	1450	SO									X		X			1	

Total Number of Containers: 12
Cooler ID: 1 COOLER
Cooler Temperature:
FEDEX NUMBER: NA

Signature: Rich Sprinzl	Date: 2/17/10	Received by (Signature):	Date: 2/17/10
Printed Name: SAIC	Time: 1500	Printed Name: William R Cordell	Time: 1510
Company:		Company: TestAmerica	
Relinquished by (Signature): William R Cordell	Date: 2/17/10	Received by (Signature): Terry Burns	Date: 2/17/10
Printed Name: William R Cordell	Time: 1645	Printed Name: Terry Burns	Time: 1645
Company: TestAmerica Inc		Company: TA	

1 6020/7471A
2 8330B
3 3540C/3541/8270C
4 Nitroguanidine:8330 Mod/8332 Mod; Nitrocellulose:9056 Mod/EPA 3
5 8260B/5021
6 3540C/3541C/8081A
7 3540C/3541C/8082
8 8270 (low level PAHs)
9 7196
10 3060A/7196A
11 6020 (Total Chromium only)
12 600/R-93/116
13 9056A/EPA 353.2

SAIC
From Science to Solutions
151 Lafayette Drive, Oak Ridge, TN 37831
(865) 481-4600

Chain of Custody Record

Science Applications International Corporation

COC NO.: RVAAP-PBA08RI-004
Date: 2/17/2010

PROJECT NAME: RVAAP PBA2008 17 AOCs RI
PO NUMBER: PO10025302
PROJECT NUMBER: 172819.00.09456.00.9200.02.200
PROJECT MANAGER: Kevin Jago
AOC: Anchor Test Area (Surface Soil)
Sampler (Signature) (Printed Name):

Laboratory Name: TestAmerica
Address: 4101 Shuffel Street NW
North Canton, Ohio 44720
Attn: Mark Loeb
Phone: 330-966-9387

Sample ID	Station ID	Date Collected	Time Collected	Matrix	Requested Parameters: TAL Metals + Hg 1	Explosives 2	SVOCs 3	Propellants 4	VOCs 5	Pesticides 6	PCBs 7	PAHs 8	Hexavalent Chromium (SO) 9	Hexavalent Chromium (SD) 10	Total Chromium 11	Asbestos 12	Nitrate 13			No. of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
ATASS-012-5033-SO	ATAss-012	2/17/2010	1235	SO									X		X					1	
ATASS-013-5034-SO	ATAss-013	2/17/2010	1220	SO									X		X					1	
ATASS-014-5035-SO	ATAss-014	2/17/2010	1210	SO									X		X					1	
ATASS-015M-5036-SO	ATAss-015M	2/17/2010	1200	SO	X	X	X	X	X	X	X									3	MI
ATASS-016M-5037-SO	ATAss-016M	2/17/2010	1045	SO	X	X														2	MI
ATASS-016M-6047-FD	ATAss-016M	2/17/2010	1045	SO	X	X														2	MI

Total Number of Containers: 10
Cooler ID: 1 COOLER
Cooler Temperature:
FEDEX NUMBER: NA

Signature: Rich Sprinz	Date: 2/17/10	Received by Signature: William R Cordell	Date: 2/17/10		
Printed Name: Rich Sprinz	Time: 1500	Printed Name: William R Cordell	Time: 1510		
Company: SAIC		Company: Test America			
Relinquished by Signature: William R Cordell	Date: 2/17/10	Received by Signature: Terry Burns	Date: 2/17/10		
Printed Name: William R Cordell	Time: 1645	Printed Name: TA	Time: 1645		
Company: TEST AMERICA INC		Company:			

1 6020/7471A
2 8330B
3 3540C/3541/8270C
4 Nitroguanidine:8330 Mod/8332 Mod; Nitrocellulose:9056 Mod/EPA 3
5 8260B/5021
6 3540C/3541C/8081A
7 3540C/3541C/8082
8 8270 (low level PAHs)
9 7196
10 3060A/7196A
11 6020 (Total Chromium only)
12 600/R-93/116
13 9056A/EPA 353.2

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240B180429
North Canton Facility

Client SAIC Project RVAAP By: (Signature)
Cooler Received on 2/17/10 Opened on 2/18/10
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☒ Other
TestAmerica Cooler # No. 4 Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 2 Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other
6. Cooler temperature upon receipt 2.2 °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 121709-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
TA no #	2.2	IR 1	Ice 1
TA no #	3.3		

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMS VOLATILE DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Cor

Lab Code: TALCAN SDG No:

Lot #: A0B180429

Extraction: XXA15QKWA

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	INTRA-LAB QC	98	97	108	98	00
02	B12SS-038M-5040-SO(VOC)	107	97	109	98	00
03	ATASS-015M-5036-SO(VOCS)	102	97	101	99	00
04	METHOD BLK. LV4QN1AA	97	99	101	96	00
05	METHOD BLK. LV6FR1AA	95	94	99	94	00
06	LCS LV4QN1AC	90	104	101	94	00
07	LCS LV6FR1AC	96	101	101	97	00
08	LAB MS/MSD D	94	101	108	96	00
09	LCSD LV4QN1AD	90	102	101	93	00
10	LCSD LV6FR1AD	90	101	104	94	00
11	LAB MS/MSD S	90	99	102	99	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(61-130)
SRG02	= Toluene-d8	(85-115)
SRG03	= 4-Bromofluorobenzene	(85-120)
SRG04	= Dibromofluoromethane	(59-138)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4QN1AC
BATCH: 0057113

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	54	108	65 - 135	
Trichloroethene	50	57	114	75 - 125	
Benzene	50	50	99	75 - 125	
Toluene	50	53	107	70 - 125	
Chlorobenzene	50	50	100	75 - 125	
Acetone	50	62	124	20 - 160	
Bromodichloromethane	50	52	103	70 - 130	
Bromoform	50	54	109	55 - 135	
Bromomethane	50	47	94	30 - 160	
2-Butanone	50	47	95	30 - 160	
Bromochloromethane	50	50	100	70 - 125	
Carbon disulfide	50	51	103	45 - 160	
Carbon tetrachloride	50	63	125	65 - 135	
Chloroethane	50	45	89	40 - 155	
Chloroform	50	49	99	70 - 125	
Chloromethane	50	40	81	50 - 130	
1,2-Dibromo-3-chloropropa	50	58	116	40 - 135	
1,2-Dibromoethane	50	53	106	70 - 125	
1,3-Dichlorobenzene	50	51	102	70 - 125	
1,4-Dichlorobenzene	50	48	97	70 - 125	
1,2-Dichlorobenzene	50	51	101	75 - 120	
Dichlorodifluoromethane	50	37	75	35 - 135	
1,1-Dichloroethane	50	51	102	75 - 125	
1,2-Dichloroethane	50	49	98	70 - 135	
trans-1,2-Dichloroethene	50	52	105	65 - 135	
cis-1,2-Dichloroethene	50	51	102	65 - 125	
1,2-Dichloropropane	50	51	102	70 - 120	
cis-1,3-Dichloropropene	50	49	98	70 - 125	
trans-1,3-Dichloropropene	50	53	106	65 - 125	
Ethylbenzene	50	55	109	75 - 125	
2-Hexanone	50	55	110	45 - 145	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4QN1AC
BATCH: 0057113

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Methylene chloride	50	51	102	55 - 140	
4-Methyl-2-pentanone	50	53	106	45 - 145	
Naphthalene	50	55	110	40 - 125	
Styrene	50	55	109	75 - 125	
1,1,1,2-Tetrachloroethane	50	52	105	75 - 125	
1,1,2,2-Tetrachloroethane	50	44	87	55 - 130	
Tetrachloroethene	50	52	105	65 - 140	
1,1,2-Trichloroethane	50	52	104	60 - 125	
1,1,1-Trichloroethane	50	53	107	70 - 135	
Trichlorofluoromethane	50	59	117	25 - 185	
Xylenes (total)	150	170	111	75 - 125	
o-Xylene	50	56	112	75 - 125	
m-Xylene & p-Xylene	100	110	110	80 - 125	
Vinyl chloride	50	45	90	60 - 125	
Isopropylbenzene	50	55	110	75 - 130	
1,1-Dichloropropene	50	53	106	70 - 135	
1,2,3-Trichlorobenzene	50	52	103	60 - 135	
1,2,3-Trichloropropane	50	58	116	65 - 130	
1,2,4-Trichlorobenzene	50	55	110	65 - 130	
2,2-Dichloropropane	50	49	98	65 - 135	
2-Chlorotoluene	50	56	112	70 - 130	
4-Chlorotoluene	50	55	109	75 - 125	
Bromobenzene	50	51	103	65 - 120	
Dibromomethane	50	51	103	75 - 130	
Hexachlorobutadiene	50	50	100	55 - 140	
n-Butylbenzene	50	55	110	65 - 140	
n-Propylbenzene	50	55	111	65 - 135	
p-Isopropyltoluene	50	54	108	75 - 135	
sec-Butylbenzene	50	55	109	65 - 130	
tert-Butylbenzene	50	55	110	65 - 130	
1,2,4-Trimethylbenzene	50	57	113	65 - 135	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4QN1AC
BATCH: 0057113

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,3,5-Trimethylbenzene	50	56	111	65- 135	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4QN1AD
BATCH: 0057113

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	50	100	65 - 135	
Trichloroethene	50	47	94	75 - 125	
Benzene	50	47	95	75 - 125	
Toluene	50	51	102	70 - 125	
Chlorobenzene	50	48	97	75 - 125	
Acetone	50	63	125	20 - 160	
Bromodichloromethane	50	48	97	70 - 130	
Bromoform	50	53	105	55 - 135	
Bromomethane	50	44	87	30 - 160	
2-Butanone	50	47	95	30 - 160	
Bromochloromethane	50	47	95	70 - 125	
Carbon disulfide	50	47	94	45 - 160	
Carbon tetrachloride	50	59	118	65 - 135	
Chloroethane	50	42	85	40 - 155	
Chloroform	50	47	95	70 - 125	
Chloromethane	50	37	74	50 - 130	
1,2-Dibromo-3-chloropropa	50	56	112	40 - 135	
1,2-Dibromoethane	50	51	103	70 - 125	
1,3-Dichlorobenzene	50	49	98	70 - 125	
1,4-Dichlorobenzene	50	47	94	70 - 125	
1,2-Dichlorobenzene	50	49	99	75 - 120	
Dichlorodifluoromethane	50	35	70	35 - 135	
1,1-Dichloroethane	50	50	100	75 - 125	
1,2-Dichloroethane	50	47	95	70 - 135	
trans-1,2-Dichloroethene	50	49	99	65 - 135	
cis-1,2-Dichloroethene	50	50	100	65 - 125	
1,2-Dichloropropane	50	48	96	70 - 120	
cis-1,3-Dichloropropene	50	47	93	70 - 125	
trans-1,3-Dichloropropene	50	51	102	65 - 125	
Ethylbenzene	50	52	104	75 - 125	
2-Hexanone	50	53	107	45 - 145	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4QN1AD
BATCH: 0057113

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Methylene chloride	50	47	95	55 - 140	
4-Methyl-2-pentanone	50	53	106	45 - 145	
Naphthalene	50	54	107	40 - 125	
Styrene	50	52	103	75 - 125	
1,1,1,2-Tetrachloroethane	50	51	103	75 - 125	
1,1,2,2-Tetrachloroethane	50	52	104	55 - 130	
Tetrachloroethene	50	50	100	65 - 140	
1,1,2-Trichloroethane	50	49	99	60 - 125	
1,1,1-Trichloroethane	50	51	103	70 - 135	
Trichlorofluoromethane	50	54	109	25 - 185	
Xylenes (total)	150	160	105	75 - 125	
o-Xylene	50	54	108	75 - 125	
m-Xylene & p-Xylene	100	100	104	80 - 125	
Vinyl chloride	50	43	86	60 - 125	
Isopropylbenzene	50	54	108	75 - 130	
1,1-Dichloropropene	50	50	100	70 - 135	
1,2,3-Trichlorobenzene	50	50	99	60 - 135	
1,2,3-Trichloropropane	50	57	114	65 - 130	
1,2,4-Trichlorobenzene	50	52	103	65 - 130	
2,2-Dichloropropane	50	47	94	65 - 135	
2-Chlorotoluene	50	54	108	70 - 130	
4-Chlorotoluene	50	53	106	75 - 125	
Bromobenzene	50	51	101	65 - 120	
Dibromomethane	50	48	96	75 - 130	
Hexachlorobutadiene	50	48	95	55 - 140	
n-Butylbenzene	50	53	105	65 - 140	
n-Propylbenzene	50	53	106	65 - 135	
p-Isopropyltoluene	50	52	104	75 - 135	
sec-Butylbenzene	50	53	106	65 - 130	
tert-Butylbenzene	50	53	107	65 - 130	
1,2,4-Trimethylbenzene	50	54	109	65 - 135	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B260000 WO #: LV4QN1AD
BATCH: 0057113

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,3,5-Trimethylbenzene	50	54	107	65- 135	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AC
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	57	113	65 - 135	
Trichloroethene	50	51	102	75 - 125	
Benzene	50	51	102	75 - 125	
Toluene	50	52	105	70 - 125	
Chlorobenzene	50	51	101	75 - 125	
Acetone	50	62	125	20 - 160	
Bromodichloromethane	50	53	106	70 - 130	
Bromoform	50	55	110	55 - 135	
Bromomethane	50	51	102	30 - 160	
2-Butanone	50	47	93	30 - 160	
Bromochloromethane	50	52	104	70 - 125	
Carbon disulfide	50	55	109	45 - 160	
Carbon tetrachloride	50	67	134	65 - 135	
Chloroethane	50	47	94	40 - 155	
Chloroform	50	52	104	70 - 125	
Chloromethane	50	41	81	50 - 130	
1,2-Dibromo-3-chloropropa	50	57	114	40 - 135	
1,2-Dibromoethane	50	52	103	70 - 125	
1,3-Dichlorobenzene	50	51	103	70 - 125	
1,4-Dichlorobenzene	50	49	98	70 - 125	
1,2-Dichlorobenzene	50	51	102	75 - 120	
Dichlorodifluoromethane	50	35	69	35 - 135	
1,1-Dichloroethane	50	54	108	75 - 125	
1,2-Dichloroethane	50	51	103	70 - 135	
trans-1,2-Dichloroethene	50	56	111	65 - 135	
cis-1,2-Dichloroethene	50	53	106	65 - 125	
1,2-Dichloropropane	50	50	100	70 - 120	
cis-1,3-Dichloropropene	50	50	99	70 - 125	
trans-1,3-Dichloropropene	50	50	101	65 - 125	
Ethylbenzene	50	55	110	75 - 125	
2-Hexanone	50	52	104	45 - 145	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AC
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Methylene chloride	50	52	105	55 - 140	
4-Methyl-2-pentanone	50	51	101	45 - 145	
Naphthalene	50	54	109	40 - 125	
Styrene	50	56	111	75 - 125	
1,1,1,2-Tetrachloroethane	50	53	107	75 - 125	
1,1,2,2-Tetrachloroethane	50	52	103	55 - 130	
Tetrachloroethene	50	52	104	65 - 140	
1,1,2-Trichloroethane	50	50	101	60 - 125	
1,1,1-Trichloroethane	50	58	115	70 - 135	
Trichlorofluoromethane	50	61	121	25 - 185	
Xylenes (total)	150	170	113	75 - 125	
o-Xylene	50	57	115	75 - 125	
m-Xylene & p-Xylene	100	110	113	80 - 125	
Vinyl chloride	50	47	93	60 - 125	
Isopropylbenzene	50	57	114	75 - 130	
1,1-Dichloropropene	50	55	110	70 - 135	
1,2,3-Trichlorobenzene	50	52	103	60 - 135	
1,2,3-Trichloropropane	50	55	111	65 - 130	
1,2,4-Trichlorobenzene	50	53	106	65 - 130	
2,2-Dichloropropane	50	55	110	65 - 135	
2-Chlorotoluene	50	56	112	70 - 130	
4-Chlorotoluene	50	55	109	75 - 125	
Bromobenzene	50	51	103	65 - 120	
Dibromomethane	50	51	102	75 - 130	
Hexachlorobutadiene	50	50	100	55 - 140	
n-Butylbenzene	50	55	110	65 - 140	
n-Propylbenzene	50	55	109	65 - 135	
p-Isopropyltoluene	50	55	110	75 - 135	
sec-Butylbenzene	50	55	110	65 - 130	
tert-Butylbenzene	50	55	111	65 - 130	
1,2,4-Trimethylbenzene	50	56	113	65 - 135	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AC
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,3,5-Trimethylbenzene	50	55	111	65- 135	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AD
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	56	111	65 - 135	
Trichloroethene	50	50	101	75 - 125	
Benzene	50	50	100	75 - 125	
Toluene	50	53	107	70 - 125	
Chlorobenzene	50	51	102	75 - 125	
Acetone	50	61	121	20 - 160	
Bromodichloromethane	50	51	102	70 - 130	
Bromoform	50	52	105	55 - 135	
Bromomethane	50	51	102	30 - 160	
2-Butanone	50	43	87	30 - 160	
Bromochloromethane	50	50	100	70 - 125	
Carbon disulfide	50	55	109	45 - 160	
Carbon tetrachloride	50	65	131	65 - 135	
Chloroethane	50	47	94	40 - 155	
Chloroform	50	50	101	70 - 125	
Chloromethane	50	41	83	50 - 130	
1,2-Dibromo-3-chloropropa	50	52	103	40 - 135	
1,2-Dibromoethane	50	51	102	70 - 125	
1,3-Dichlorobenzene	50	53	105	70 - 125	
1,4-Dichlorobenzene	50	50	99	70 - 125	
1,2-Dichlorobenzene	50	52	103	75 - 120	
Dichlorodifluoromethane	50	34	67	35 - 135	
1,1-Dichloroethane	50	53	107	75 - 125	
1,2-Dichloroethane	50	50	99	70 - 135	
trans-1,2-Dichloroethene	50	55	109	65 - 135	
cis-1,2-Dichloroethene	50	52	104	65 - 125	
1,2-Dichloropropane	50	49	99	70 - 120	
cis-1,3-Dichloropropene	50	48	95	70 - 125	
trans-1,3-Dichloropropene	50	50	100	65 - 125	
Ethylbenzene	50	55	110	75 - 125	
2-Hexanone	50	48	95	45 - 145	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AD
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Methylene chloride	50	52	104	55 - 140	
4-Methyl-2-pentanone	50	46	92	45 - 145	
Naphthalene	50	52	103	40 - 125	
Styrene	50	55	110	75 - 125	
1,1,1,2-Tetrachloroethane	50	54	108	75 - 125	
1,1,2,2-Tetrachloroethane	50	50	99	55 - 130	
Tetrachloroethene	50	52	105	65 - 140	
1,1,2-Trichloroethane	50	49	98	60 - 125	
1,1,1-Trichloroethane	50	57	114	70 - 135	
Trichlorofluoromethane	50	61	122	25 - 185	
Xylenes (total)	150	170	114	75 - 125	
o-Xylene	50	58	115	75 - 125	
m-Xylene & p-Xylene	100	110	113	80 - 125	
Vinyl chloride	50	47	94	60 - 125	
Isopropylbenzene	50	57	115	75 - 130	
1,1-Dichloropropene	50	54	107	70 - 135	
1,2,3-Trichlorobenzene	50	52	104	60 - 135	
1,2,3-Trichloropropane	50	55	110	65 - 130	
1,2,4-Trichlorobenzene	50	56	111	65 - 130	
2,2-Dichloropropane	50	54	108	65 - 135	
2-Chlorotoluene	50	58	116	70 - 130	
4-Chlorotoluene	50	56	113	75 - 125	
Bromobenzene	50	53	105	65 - 120	
Dibromomethane	50	49	97	75 - 130	
Hexachlorobutadiene	50	52	104	55 - 140	
n-Butylbenzene	50	57	114	65 - 140	
n-Propylbenzene	50	57	115	65 - 135	
p-Isopropyltoluene	50	57	114	75 - 135	
sec-Butylbenzene	50	57	113	65 - 130	
tert-Butylbenzene	50	58	115	65 - 130	
1,2,4-Trimethylbenzene	50	58	117	65 - 135	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AD
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,3,5-Trimethylbenzene	50	57	114	65 - 135	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: A0B160474 WO #: LVQVL1CF
BATCH: 0057113

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	70	ND	87	123	65- 135	
Trichloroethene	70	ND	65	93	75- 125	
Benzene	70	ND	70	100	75- 125	
Toluene	70	0.80	69	97	70- 125	
Chlorobenzene	70	ND	61	87	75- 125	
Acetone	70	49	130	113	20- 160	
Bromodichloromethane	70	ND	57	82	70- 130	
Bromoform	70	ND	49	70	55- 135	
Bromomethane	70	ND	71	101	30- 160	
2-Butanone	70	6.5	57	71	30- 160	
Bromochloromethane	70	ND	72	102	70- 125	
Carbon disulfide	70	ND	79	112	45- 160	
Carbon tetrachloride	70	ND	55	79	65- 135	
Chloroethane	70	ND	77	109	40- 155	
Chloroform	70	ND	75	107	70- 125	
Chloromethane	70	ND	61	87	50- 130	
1,2-Dibromo-3-chloropropa	70	ND	59	83	40- 135	
1,2-Dibromoethane	70	ND	63	90	70- 125	
1,3-Dichlorobenzene	70	ND	55	78	70- 125	
1,4-Dichlorobenzene	70	ND	51	73	70- 125	
1,2-Dichlorobenzene	70	ND	53	76	75- 120	
Dichlorodifluoromethane	70	ND	61	87	35- 135	
1,1-Dichloroethane	70	ND	78	111	75- 125	
1,2-Dichloroethane	70	ND	68	97	70- 135	
trans-1,2-Dichloroethene	70	ND	79	112	65- 135	
cis-1,2-Dichloroethene	70	ND	75	106	65- 125	
1,2-Dichloropropane	70	ND	66	93	70- 120	
cis-1,3-Dichloropropene	70	ND	49	69*	70- 125	a

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: A0B160474 WO #: LVQVL1CF
BATCH: 0057113

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
trans-1,3-Dichloropropene	70	ND	51	73	65- 125	
Ethylbenzene	70	ND	66	94	75- 125	
2-Hexanone	70	ND	55	78	45- 145	
Methylene chloride	70	ND	87	123	55- 140	
4-Methyl-2-pentanone	70	ND	61	87	45- 145	
Naphthalene	70	ND	34	48	40- 125	
Styrene	70	ND	60	85	75- 125	
1,1,1,2-Tetrachloroethane	70	ND	66	94	75- 125	
1,1,2,2-Tetrachloroethane	70	ND	68	96	55- 130	
Tetrachloroethene	70	ND	65	92	65- 140	
1,1,2-Trichloroethane	70	ND	64	92	60- 125	
1,1,1-Trichloroethane	70	ND	85	121	70- 135	
Trichlorofluoromethane	70	ND	88	125	25- 185	
Xylenes (total)	210	ND	210	97	37- 162	
o-Xylene	70	ND	70	100	75- 125	
m-Xylene & p-Xylene	140	ND	130	96	80- 125	
Vinyl chloride	70	ND	74	106	60- 125	
Methyl tert-butyl ether (	70	ND	76	108	40- 140	
Isopropylbenzene	70	ND	67	96	75- 130	
1,1-Dichloropropene	70	ND	73	103	70- 135	
1,2,3-Trichlorobenzene	70	ND	32	46*	60- 135	a
1,2,3-Trichloropropane	70	ND	74	105	65- 130	
1,2,4-Trichlorobenzene	70	ND	35	49*	65- 130	a
2,2-Dichloropropane	70	ND	87	124	65- 135	
2-Chlorotoluene	70	ND	66	94	70- 130	
4-Chlorotoluene	70	ND	62	88	75- 125	
Bromobenzene	70	ND	62	88	65- 120	
Dibromomethane	70	ND	68	97	75- 130	

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SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: A0B160474 WO #: LVQVL1CF
BATCH: 0057113

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Hexachlorobutadiene	70	ND	32	46*	55 - 140	a
n-Butylbenzene	70	ND	47	67	65 - 140	
n-Propylbenzene	70	ND	63	90	65 - 135	
p-Isopropyltoluene	70	ND	54	77	75 - 135	
sec-Butylbenzene	70	ND	58	82	65 - 130	
tert-Butylbenzene	70	ND	62	88	65 - 130	
1,2,4-Trimethylbenzene	70	ND	62	89	65 - 135	
1,3,5-Trimethylbenzene	70	ND	62	88	65 - 135	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 4 out of 64 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: A0B160474 WO #: LVQVL1CG
BATCH: 0057113

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	70	71	101	20	35	65- 135	
Trichloroethene	70	63	89	4.0	30	75- 125	
Benzene	70	64	92	8.5	30	75- 125	
Toluene	70	67	94	3.6	30	70- 125	
Chlorobenzene	70	59	85	3.1	30	75- 125	
Acetone	70	110	84	17	37	20- 160	
Bromodichloromethane	70	59	83	1.9	30	70- 130	
Bromoform	70	52	74	4.8	30	55- 135	
Bromomethane	70	57	81	22	30	30- 160	
2-Butanone	70	59	75	4.2	33	30- 160	
Bromochloromethane	70	66	94	7.6	30	70- 125	
Carbon disulfide	70	64	91	21	36	45- 160	
Carbon tetrachloride	70	58	82	4.0	30	65- 135	
Chloroethane	70	62	89	21	30	40- 155	
Chloroform	70	64	91	16	30	70- 125	
Chloromethane	70	48	68	25	30	50- 130	
1,2-Dibromo-3-chloropropa	70	62	89	6.1	30	40- 135	
1,2-Dibromoethane	70	64	91	1.2	30	70- 125	
1,3-Dichlorobenzene	70	54	77	2.0	30	70- 125	
1,4-Dichlorobenzene	70	50	72	1.8	30	70- 125	
1,2-Dichlorobenzene	70	53	75	0.87	30	75- 120	
Dichlorodifluoromethane	70	50	72	19	30	35- 135	
1,1-Dichloroethane	70	67	95	16	47	75- 125	
1,2-Dichloroethane	70	65	92	5.1	43	70- 135	
trans-1,2-Dichloroethene	70	66	94	17	30	65- 135	
cis-1,2-Dichloroethene	70	65	93	14	30	65- 125	
1,2-Dichloropropane	70	65	92	1.7	30	70- 120	
cis-1,3-Dichloropropene	70	55	78	12	40	70- 125	

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SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0B160474 WO #: LVQVL1CG
BATCH: 0057113

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
trans-1,3-Dichloropropene	70	57	81	10	31	65- 125	
Ethylbenzene	70	64	91	2.9	30	75- 125	
2-Hexanone	70	64	92	16	31	45- 145	
Methylene chloride	70	68	96	24	30	55- 140	
4-Methyl-2-pentanone	70	68	96	9.6	39	45- 145	
Naphthalene	70	41	58	18	30	40- 125	
Styrene	70	59	84	1.1	30	75- 125	
1,1,1,2-Tetrachloroethane	70	61	86	9.0	30	75- 125	
1,1,2,2-Tetrachloroethane	70	68	97	0.98	30	55- 130	
Tetrachloroethene	70	63	89	3.5	30	65- 140	
1,1,2-Trichloroethane	70	63	90	1.6	30	60- 125	
1,1,1-Trichloroethane	70	71	102	18	30	70- 135	
Trichlorofluoromethane	70	74	105	18	30	25- 185	
Xylenes (total)	210	190	92	6.1	30	37- 162	
o-Xylene	70	65	92	8.5	30	75- 125	
m-Xylene & p-Xylene	140	130	91	4.9	30	80- 125	
Vinyl chloride	70	61	86	20	30	60- 125	
Methyl tert-butyl ether (	70	70	100	7.7	50	40- 140	
Isopropylbenzene	70	61	87	10	30	75- 130	
1,1-Dichloropropene	70	68	97	6.5	30	70- 135	
1,2,3-Trichlorobenzene	70	36	51*	9.7	30	60- 135	a
1,2,3-Trichloropropane	70	75	107	1.7	30	65- 130	
1,2,4-Trichlorobenzene	70	37	53*	7.6	30	65- 130	a
2,2-Dichloropropane	70	67	95	27	30	65- 135	
2-Chlorotoluene	70	64	91	3.5	30	70- 130	
4-Chlorotoluene	70	61	86	1.6	30	75- 125	
Bromobenzene	70	62	88	0.69	30	65- 120	
Dibromomethane	70	68	97	0.43	30	75- 130	

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SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: A0B160474 WO #: LVQVL1CG
BATCH: 0057113

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Hexachlorobutadiene	70	35	50*	10	50	55 - 140	a
n-Butylbenzene	70	50	71	6.8	30	65 - 140	
n-Propylbenzene	70	62	89	1.6	30	65 - 135	
p-Isopropyltoluene	70	54	77	0.89	30	75 - 135	
sec-Butylbenzene	70	58	82	0.48	30	65 - 130	
tert-Butylbenzene	70	61	87	1.4	30	65 - 130	
1,2,4-Trimethylbenzene	70	61	86	2.9	30	65 - 135	
1,3,5-Trimethylbenzene	70	62	88	0.20	30	65 - 135	

NOTES (S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 64 outside limits
Spike Recovery: 3 out of 64 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV4QN1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: LV4QN1AA.

Lot Number: A0B180429

Date Analyzed: 02/25/10

Time Analyzed: 14:09

Matrix: SOLID

Date Extracted:02/25/10

GC Column: DB624 ID: .18

Extraction Method: 5030B

Instrument ID: UX14

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	LVQVL1AN	148202.D	02/25/10	19:13
02	LAB MS/MSD	LVQVL1CF S	148203.D	02/25/10	19:35
03	LAB MS/MSD	LVQVL1CG D	148204.D	02/25/10	19:57
04	ATASS-015M-5036-SO(VOCS)	LVTT71AC	148206.D	02/25/10	20:40
05	CHECK SAMPLE	LV4QN1AC C	LV4QN1AC.	02/25/10	13:02
06	DUPLICATE CHECK	LV4QN1AD L	LV4QN1AD.	02/25/10	13:24
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV6FR1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: LV6FR1AA.

Lot Number: A0B180429

Date Analyzed: 02/26/10

Time Analyzed: 13:41

Matrix: SOLID

Date Extracted:02/26/10

GC Column: DB624 ID: .18

Extraction Method: 5030B

Instrument ID: UX14

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	B12SS-038M-5040-SO(VOC)	LVTQ41AC	148225.D	02/26/10	15:51
02	CHECK SAMPLE	LV6FR1AC C	LV6FR1AC.	02/26/10	12:36
03	DUPLICATE CHECK	LV6FR1AD L	LV6FR1AD.	02/26/10	12:57
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B180429

Lab File ID: BFB14310 BFB Injection Date: 01/14/10

Instrument ID: A3UX14 BFB Injection Time: 1000

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	44.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	84.8
175	5.0 - 9.0% of mass 174	6.0 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	81.7 (96.4)1
177	5.0 - 9.0% of mass 176	5.4 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	147352	01/14/10	1045
02	VSTD100	500NG-IC	147353	01/14/10	1107
03	VSTD050	250NG-IC	147354	01/14/10	1129
04	VSTD020	100NG-IC	147355	01/14/10	1151
05	VSTD010	50NG-IC	147356	01/14/10	1214
06	VSTD005	25NG-IC	147357	01/14/10	1236
07	VSTD002	10NG-IC	147358	01/14/10	1259
08	VSTD001	5NG-IC	147359	01/14/10	1321
09	VSTD200	1000NG-BMIC	147362	01/14/10	1430
10	VSTD100	500NG-BMIC	147363	01/14/10	1453
11	VSTD050	250NG-BMIC	147364	01/14/10	1516
12	VSTD020	100NG-BMIC	147365	01/14/10	1539
13	VSTD010	50NG-BMIC	147366	01/14/10	1603
14	VSTD005	25NG-BMIC	147367	01/14/10	1627
15	VSTD002	10NG-BMIC	147368	01/14/10	1650
16	VSTD001	5NG-BMIC	147369	01/14/10	1714
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B180429

Lab File ID: BFB14338 BFB Injection Date: 02/25/10

Instrument ID: A3UX14 BFB Injection Time: 1110

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	44.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	86.0
175	5.0 - 9.0% of mass 174	6.1 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.0 (96.6)1
177	5.0 - 9.0% of mass 176	5.3 (6.3)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	148182	02/25/10	1154
02	LV4QNCHK	LV4QN1AC	LV4QN1AC	02/25/10	1302
03	LV4QNCKDUP	LV4QN1AD	LV4QN1AD	02/25/10	1324
04	LV4QNBLK	LV4QN1AA	LV4QN1AA	02/25/10	1409
05	ATASS-015M-5	LVTT71AC	148206	02/25/10	2040
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B180429

Lab File ID: BFB14339 BFB Injection Date: 02/26/10

Instrument ID: A3UX14 BFB Injection Time: 1048

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	43.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.4 (0.4)1
174	50.0 - 120.0% of mass 95	85.9
175	5.0 - 9.0% of mass 174	6.0 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.1 (96.7)1
177	5.0 - 9.0% of mass 176	5.4 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	148213	02/26/10	1130
02	LV6FRCHK	LV6FR1AC	LV6FR1AC	02/26/10	1236
03	LV6FRCKDUP	LV6FR1AD	LV6FR1AD	02/26/10	1257
04	LV6FRBLK	LV6FR1AA	LV6FR1AA	02/26/10	1341
05	B12SS-038M-5	LVTQ41AC	148225	02/26/10	1551
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B180429

Lab File ID (Standard): 148182 Date Analyzed: 02/25/10

Instrument ID: A3UX14 Time Analyzed: 1154

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
	12 HOUR STD	1478249	6.60	1013027	9.33	566289	11.31
	UPPER LIMIT	2956498	7.10	2026054	9.83	1132578	11.81
	LOWER LIMIT	739125	6.10	506514	8.83	283145	10.81
	EPA SAMPLE NO.						
01	LV4QNCHK	1428528	6.60	1017901	9.33	556904	11.31
02	LV4QNCKDUP	1507353	6.60	1052965	9.33	575998	11.31
03	LV4QNBLK	1335921	6.60	967326	9.33	514501	11.31
04	ATASS-015M-5	1082438	6.60	789527	9.33	387764	11.31
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B180429

Lab File ID (Standard): 148213 Date Analyzed: 02/26/10

Instrument ID: A3UX14 Time Analyzed: 1130

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
	12 HOUR STD	1312011	6.60	965181	9.33	531218	11.31
	UPPER LIMIT	2624022	7.10	1930362	9.83	1062436	11.81
	LOWER LIMIT	656006	6.10	482591	8.83	265609	10.81
	EPA SAMPLE NO.						
01	LV6FRCHK	1286060	6.60	949703	9.33	535712	11.31
02	LV6FRCKDUP	1347350	6.60	961680	9.33	524167	11.31
03	LV6FRBLK	1293874	6.60	933757	9.33	498117	11.31
04	B12SS-038M-5	910518	6.60	674453	9.33	292133	11.31
05							
06							
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13							
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15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO(VOC)

GC/MS Volatiles

Lot-Sample #...: A0B180429-005 **Work Order #...:** LVTQ41AC **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL
% Moisture.....: 30 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	ND	7.2	ug/kg	0.53
Chlorobenzene	ND	7.2	ug/kg	0.47
Acetone	**18 J,B**	**29**	**ug/kg**	**9.1**
Benzene	ND	7.2	ug/kg	0.33
Bromochloromethane	ND	7.2	ug/kg	1.0
Bromodichloromethane	ND	7.2	ug/kg	0.40
Bromoform	ND	7.2	ug/kg	0.47
Bromomethane	ND	7.2	ug/kg	0.78
2-Butanone	**3.5 J,B**	**29**	**ug/kg**	**2.0**
Carbon disulfide	ND	7.2	ug/kg	0.63
Dibromochloromethane	ND	7.2	ug/kg	0.79
Chloroethane	ND	7.2	ug/kg	1.2
Chloroform	ND	7.2	ug/kg	0.42
Chloromethane	ND	7.2	ug/kg	0.59
1,2-Dibromoethane	ND	7.2	ug/kg	0.72
1,1-Dichloroethane	ND	7.2	ug/kg	0.52
1,2-Dichloroethane	ND	7.2	ug/kg	0.49
1,1-Dichloroethene	ND	7.2	ug/kg	0.75
1,2-Dichloroethene (total)	ND	7.2	ug/kg	1.1
1,2-Dichloropropane	ND	7.2	ug/kg	0.99
cis-1,3-Dichloropropene	ND	7.2	ug/kg	0.49
trans-1,3-Dichloropropene	ND	7.2	ug/kg	0.78
Ethylbenzene	ND	7.2	ug/kg	0.37
2-Hexanone	ND	29	ug/kg	0.91
Methylene chloride	ND	7.2	ug/kg	0.96
4-Methyl-2-pentanone	ND	29	ug/kg	0.78
Styrene	ND	7.2	ug/kg	0.22
1,1,2,2-Tetrachloroethane	ND	7.2	ug/kg	0.49
Tetrachloroethene	ND	7.2	ug/kg	0.75
Toluene	**0.46 J**	**7.2**	**ug/kg**	**0.39**
1,1,1-Trichloroethane	ND	7.2	ug/kg	0.81
1,1,2-Trichloroethane	ND	7.2	ug/kg	0.56
Trichloroethene	ND	7.2	ug/kg	0.60
Vinyl chloride	ND	7.2	ug/kg	0.56
Xylenes (total)	ND	14	ug/kg	0.96

(Continued on next page)

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO(VOC)

GC/MS Volatiles

Lot-Sample #...: A0B180429-005 **Work Order #...:** LVTQ41AC **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(61 - 130)
Toluene-d8	97	(85 - 115)
4-Bromofluorobenzene	109	(85 - 120)
Dibromofluoromethane	98	(59 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D
Report Date: 26-Feb-2010 16:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D
Lab Smp Id: LVTQ41AC Client Smp ID: B12SS-038M-5040-SO(
Inj Date : 26-FEB-2010 15:51
Operator : 2807 Inst ID: a3ux14.i
Smp Info : LVTQ41AC,5G/5ML
Misc Info : R00226A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	910518	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	674453	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	292133	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	245287	244.523	48.904
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	275501	267.875	53.575
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	887429	242.711	48.542
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	293976	271.395	54.279
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.931	2.931	(0.444)	34528	61.7342	12.347
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22 Acetonitrile	41	3.298	3.286 (0.500)	2284	18.9099	3.782
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D
Report Date: 26-Feb-2010 16:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	5.392	5.380	(0.817)	5628	12.0622	2.412
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	8.149	8.138	(0.873)	6353	1.59479	0.3190
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D
Report Date: 26-Feb-2010 16:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	2500	1.16950	0.2339
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D
Report Date: 26-Feb-2010 16:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

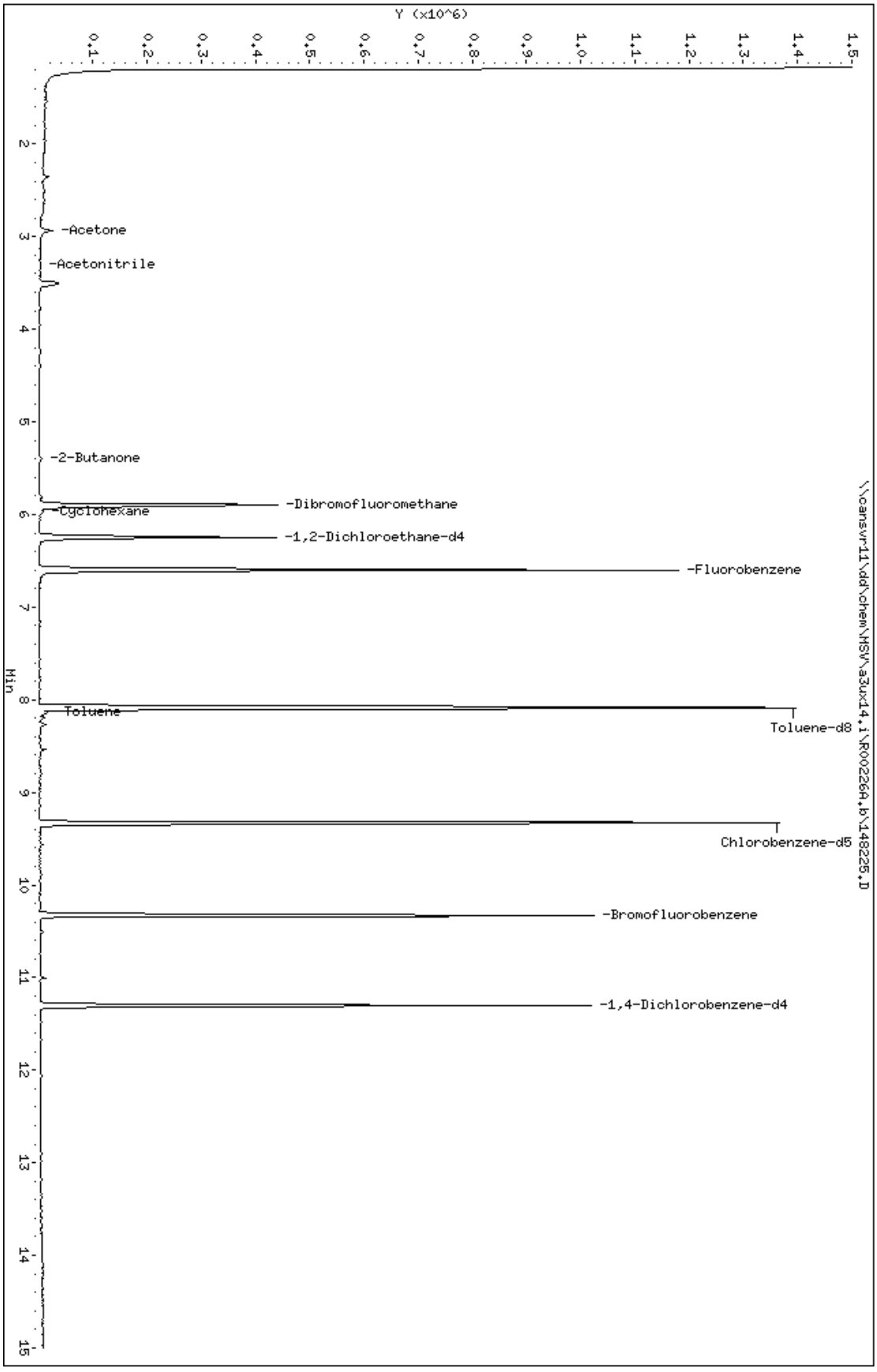
Instrument ID: a3ux14.i
Lab File ID: 148225.D
Lab Smp Id: LVTQ41AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Client Smp ID: B12SS-038M-5040-SO(
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	910518	-30.60
2 Chlorobenzene-d5	965181	482591	1930362	674453	-30.12
3 1,4-Dichlorobenze	531218	265609	1062436	292133	-45.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D
Date : 26-FEB-2010 15:51
Client ID: B12SS-038M-5040-SO(
Sample Info: LVTQ41AC,5G/5ML
Purge Volume: 5.0
Column Phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
-Acetone
-Acetonitrile
-2-Butanone
-Dibromofluoromethane
-Cyclohexane
-1,2-Dichloroethane-d4
-Fluorobenzene
Toluene
Toluene-d8
Chlorobenzene-d5
-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D

Date : 26-FEB-2010 15:51

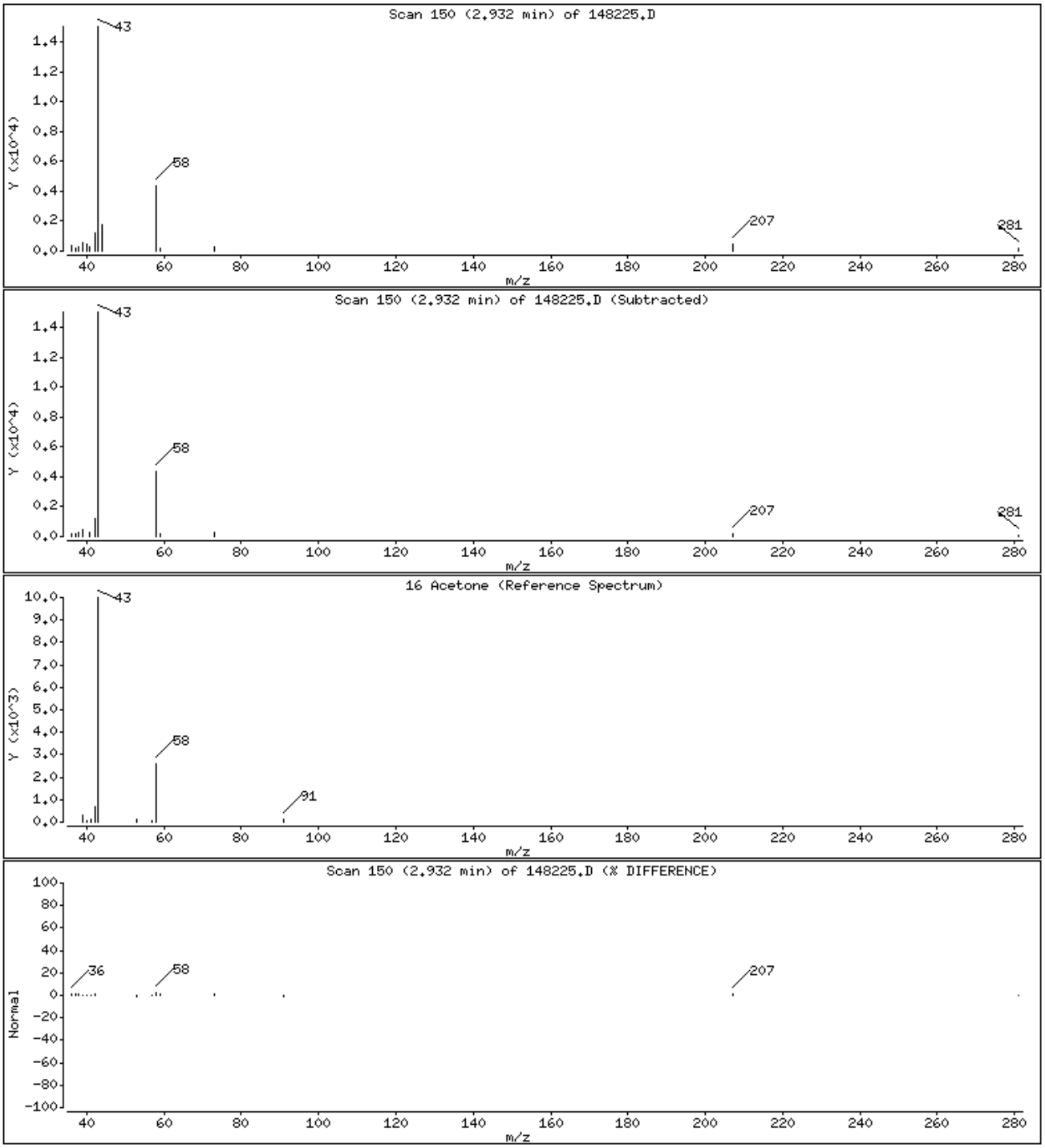
Client ID: B12SS-038M-5040-SO(Instrument: a3ux14.i

Sample Info: LVTQ41AC,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 12.347 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D

Date : 26-FEB-2010 15:51

Client ID: B12SS-038M-5040-SO(

Instrument: a3ux14.i

Sample Info: LVTQ41AC,5G/5ML

Purge Volume: 5.0

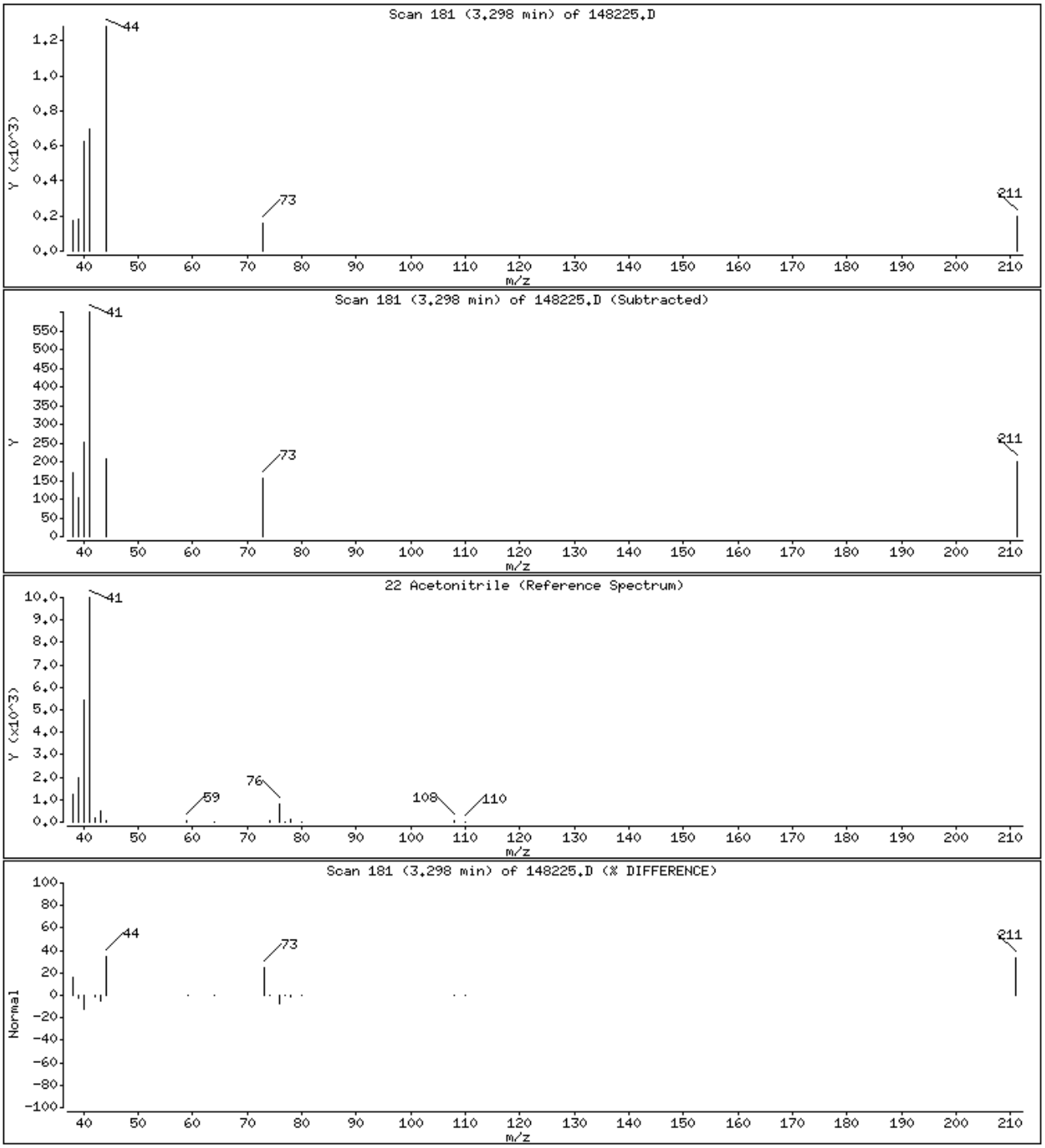
Operator: 2807

Column phase: DB624

Column diameter: 0.18

22 Acetonitrile

Concentration: 3.782 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D

Date : 26-FEB-2010 15:51

Client ID: B12SS-038M-5040-SO(

Instrument: a3ux14.i

Sample Info: LVTQ41AC,5G/5ML

Purge Volume: 5.0

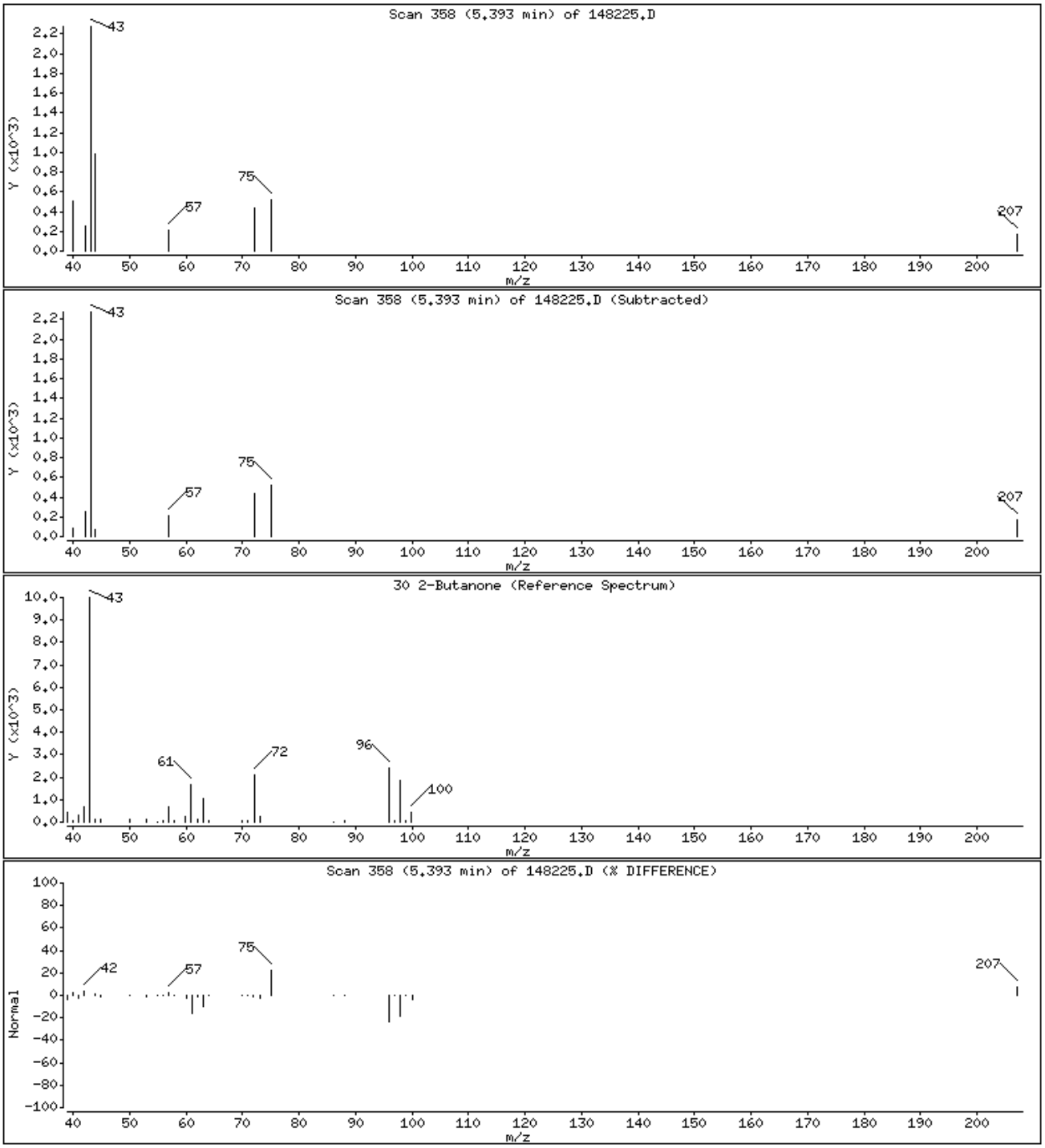
Operator: 2807

Column phase: DB624

Column diameter: 0.18

30 2-Butanone

Concentration: 2.412 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D

Date : 26-FEB-2010 15:51

Client ID: B12SS-038M-5040-SO(

Instrument: a3ux14.i

Sample Info: LVTQ41AC,5G/5ML

Purge Volume: 5.0

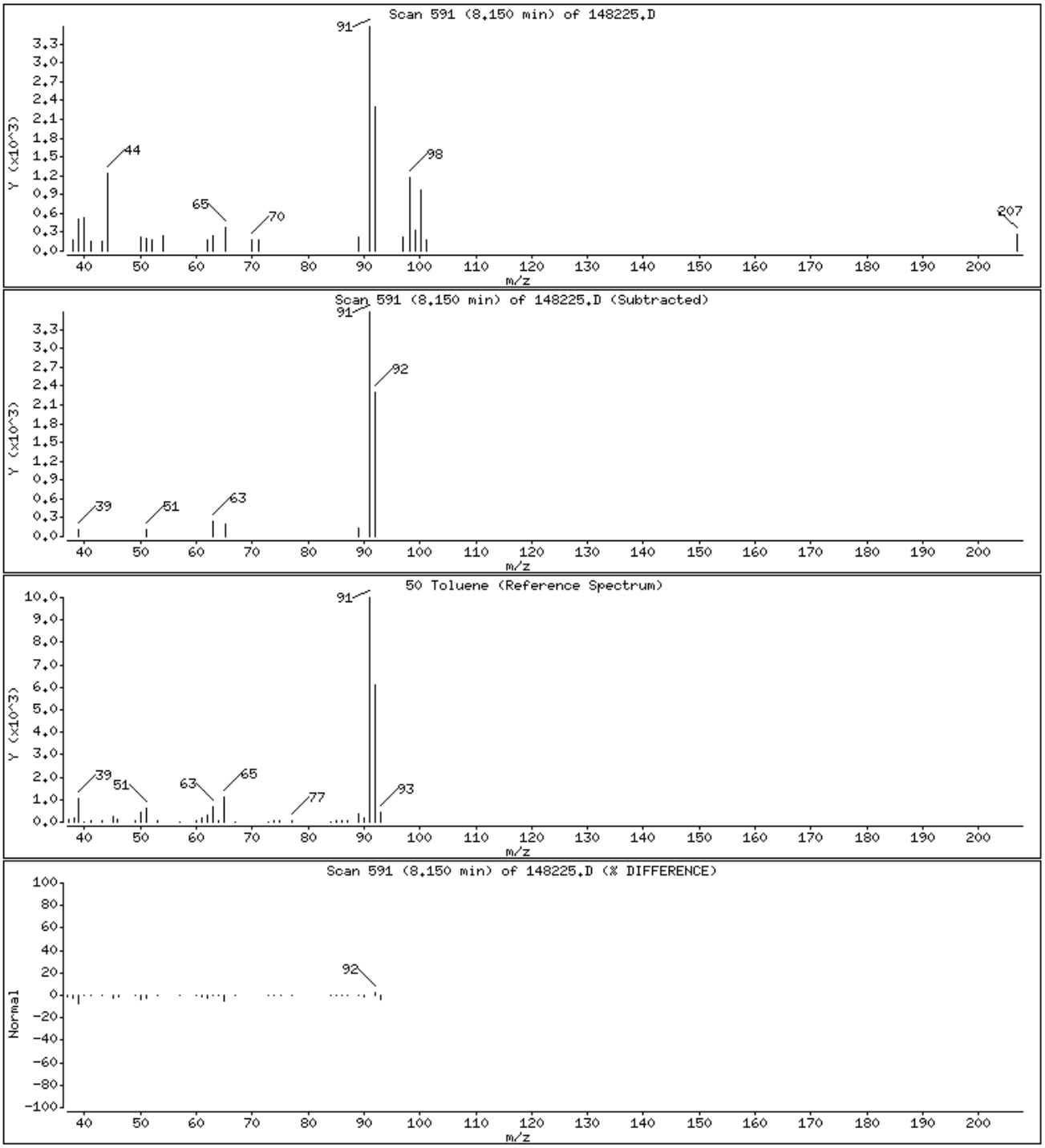
Operator: 2807

Column phase: DB624

Column diameter: 0.18

50 Toluene

Concentration: 0.3190 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148225.D

Date : 26-FEB-2010 15:51

Client ID: B12SS-038M-5040-SO(

Instrument: a3ux14.i

Sample Info: LVTQ41AC,5G/5ML

Purge Volume: 5.0

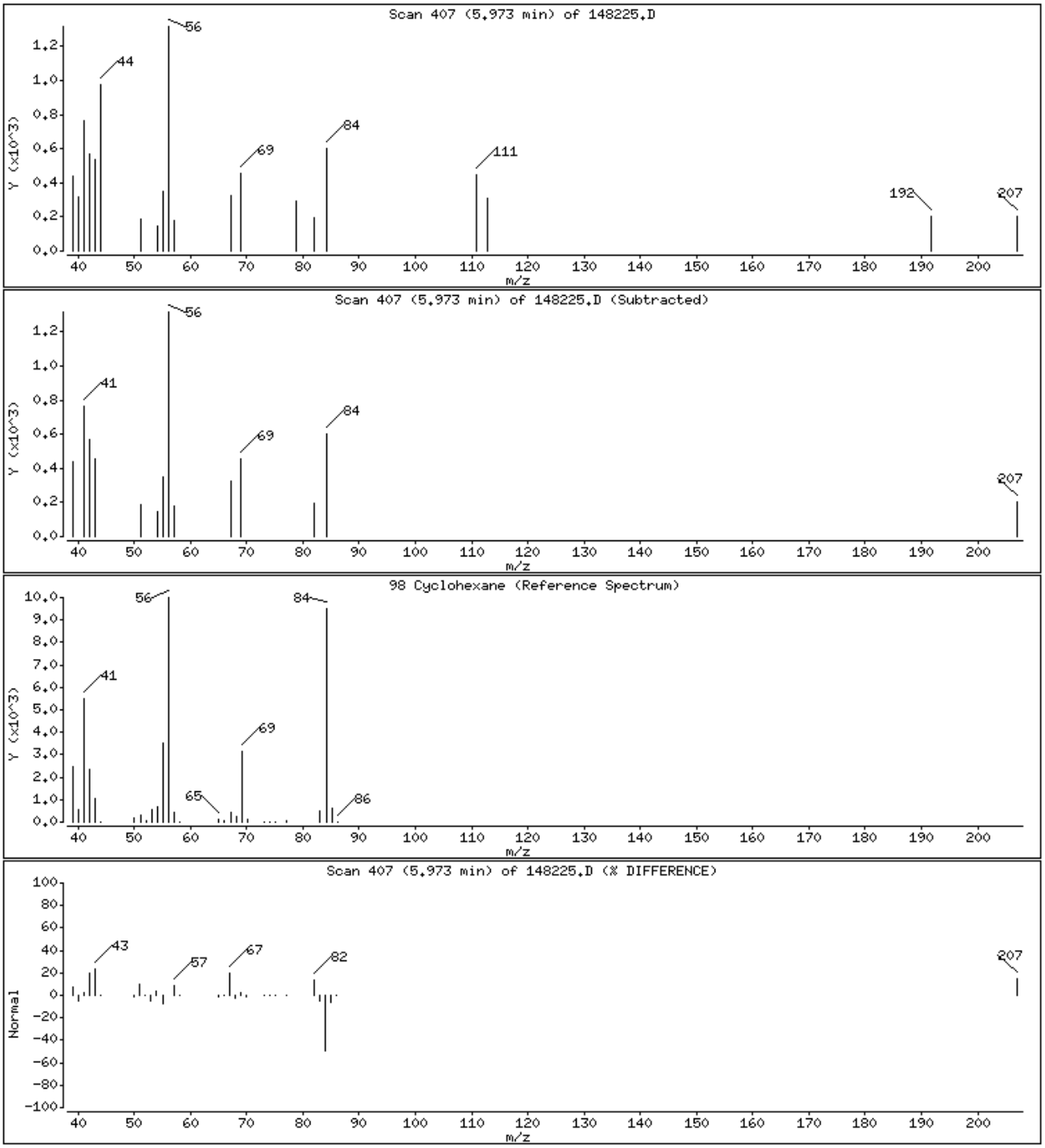
Operator: 2807

Column phase: DB624

Column diameter: 0.18

98 Cyclohexane

Concentration: 0.2339 UG/KG



Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO(VOCS)

GC/MS Volatiles

Lot-Sample #...: A0B180429-013 **Work Order #...:** LVTT71AC **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
Prep Date.....: 02/25/10 **Analysis Date..:** 02/25/10
Prep Batch #...: 0057113
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL
% Moisture.....: 25 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	ND	6.7	ug/kg	0.50
Chlorobenzene	ND	6.7	ug/kg	0.44
Acetone	ND	27	ug/kg	8.4
Benzene	ND	6.7	ug/kg	0.31
Bromochloromethane	ND	6.7	ug/kg	0.95
Bromodichloromethane	ND	6.7	ug/kg	0.38
Bromoform	ND	6.7	ug/kg	0.44
Bromomethane	ND	6.7	ug/kg	0.72
2-Butanone	ND	27	ug/kg	1.9
Carbon disulfide	ND	6.7	ug/kg	0.59
Dibromochloromethane	ND	6.7	ug/kg	0.74
Chloroethane	ND	6.7	ug/kg	1.2
Chloroform	ND	6.7	ug/kg	0.39
Chloromethane	ND	6.7	ug/kg	0.55
1,2-Dibromoethane	ND	6.7	ug/kg	0.67
1,1-Dichloroethane	ND	6.7	ug/kg	0.48
1,2-Dichloroethane	ND	6.7	ug/kg	0.46
1,1-Dichloroethene	ND	6.7	ug/kg	0.70
1,2-Dichloroethene (total)	ND	6.7	ug/kg	1.0
1,2-Dichloropropane	ND	6.7	ug/kg	0.92
cis-1,3-Dichloropropene	ND	6.7	ug/kg	0.46
trans-1,3-Dichloropropene	ND	6.7	ug/kg	0.72
Ethylbenzene	ND	6.7	ug/kg	0.35
2-Hexanone	ND	27	ug/kg	0.84
Methylene chloride	ND	6.7	ug/kg	0.90
4-Methyl-2-pentanone	ND	27	ug/kg	0.72
Styrene	ND	6.7	ug/kg	0.20
1,1,2,2-Tetrachloroethane	ND	6.7	ug/kg	0.46
Tetrachloroethene	ND	6.7	ug/kg	0.70
Toluene	**0.38 J,B**	**6.7**	**ug/kg**	**0.36**
1,1,1-Trichloroethane	ND	6.7	ug/kg	0.75
1,1,2-Trichloroethane	ND	6.7	ug/kg	0.52
Trichloroethene	ND	6.7	ug/kg	0.56
Vinyl chloride	ND	6.7	ug/kg	0.52
Xylenes (total)	ND	13	ug/kg	0.90

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO(VOCS)

GC/MS Volatiles

Lot-Sample #...: A0B180429-013 **Work Order #...:** LVTT71AC **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 130)
Toluene-d8	97	(85 - 115)
4-Bromofluorobenzene	101	(85 - 120)
Dibromofluoromethane	99	(59 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148206.D
Report Date: 26-Feb-2010 09:34

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148206.D
Lab Smp Id: LVTT71AC Client Smp ID: ATASS-015M-5036-SO(
Inj Date : 25-FEB-2010 20:40
Operator : 2807 Inst ID: a3ux14.i
Smp Info : LVTT71AC,5G/5ML
Misc Info : R00225A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Meth Date : 25-Feb-2010 12:55 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1	Fluorobenzene	96	6.599	6.599	(1.000)	1082438	250.000	
* 2	Chlorobenzene-d5	117	9.332	9.332	(1.000)	789527	250.000	
* 3	1,4-Dichlorobenzene-d4	152	11.309	11.308	(1.000)	387764	250.000	
$ 4	Dibromofluoromethane	113	5.901	5.901	(0.894)	295831	248.070	49.614
$ 5	1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	312806	255.840	51.168
$ 6	Toluene-d8	98	8.090	8.090	(0.867)	1042005	243.451	48.690
$ 7	Bromofluorobenzene	95	10.326	10.326	(0.913)	363600	252.887	50.577
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	Compound Not Detected.					
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Freon-113	151	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148206.D
Report Date: 26-Feb-2010 09:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	8.137	8.149	(0.872)	6532	1.40073	0.2801
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148206.D
Report Date: 26-Feb-2010 09:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	13.368	13.379	(1.182)	763	0.58977	0.1180
146	2-Methylnaphthalene	142	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.972	(0.905)	3851	1.51538	0.3031
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148206.D
Report Date: 26-Feb-2010 09:34

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 148206.D
Lab Smp Id: LVTT71AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,,2807

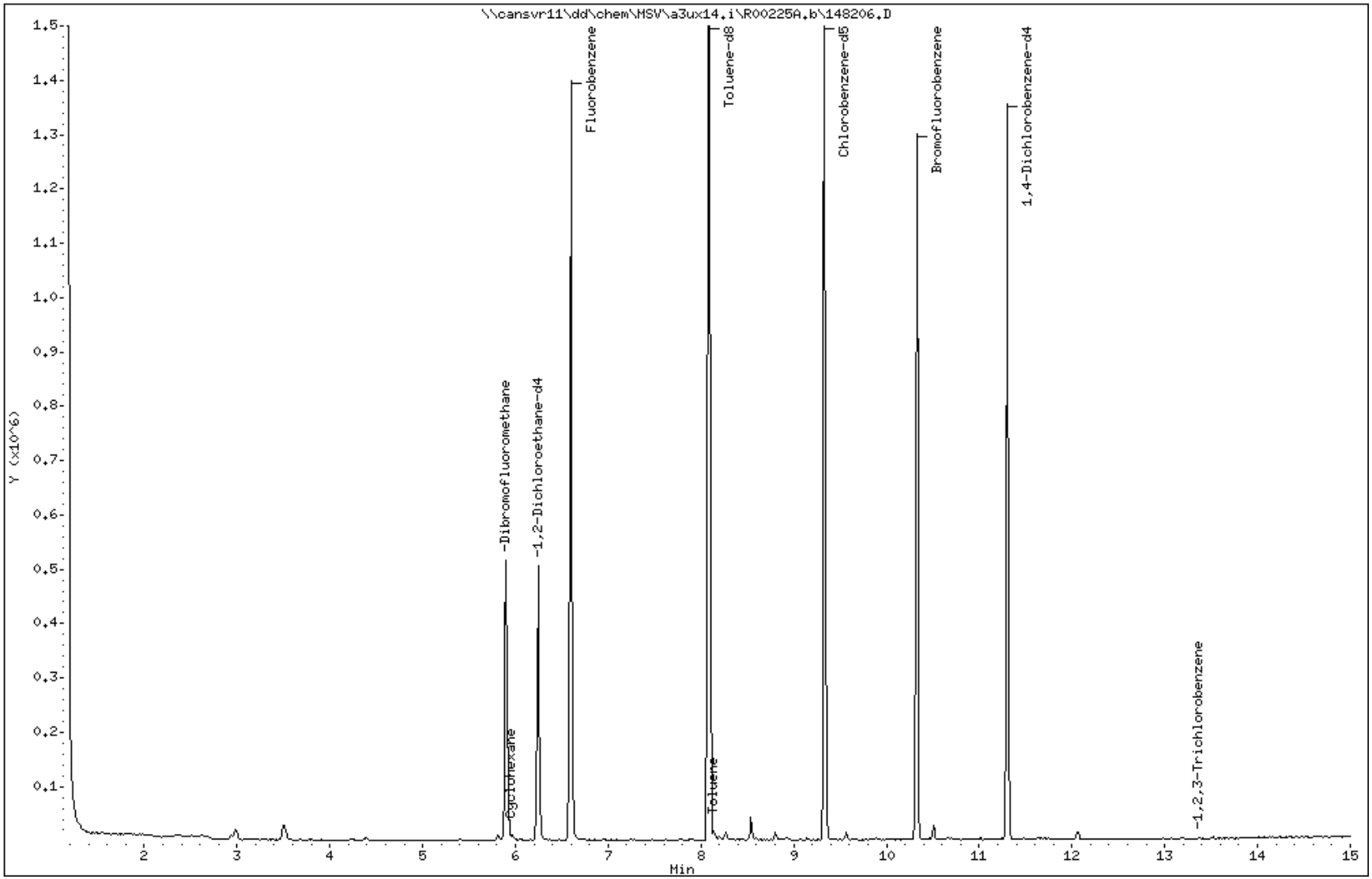
Calibration Date: 25-FEB-2010
Calibration Time: 11:54
Client Smp ID: ATASS-015M-5036-SO(
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1478249	739125	2956498	1082438	-26.78
2 Chlorobenzene-d5	1013027	506514	2026054	789527	-22.06
3 1,4-Dichlorobenze	566289	283145	1132578	387764	-31.53

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148206.D
Date : 25-FEB-2010 20:40
Client ID: ATASS-015M-5036-SO(
Instrument: a3ux14.i
Sample Info: LVTT71AC,5G/5ML
Purge Volume: 5.0
Operator: 2807
Column phase: DB624
Column diameter: 0.18



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Date : 25-FEB-2010 20:40

Client ID: ATASS-015M-5036-SO(

Instrument: a3ux14.i

Sample Info: LVTT71AC,5G/5ML

Purge Volume: 5.0

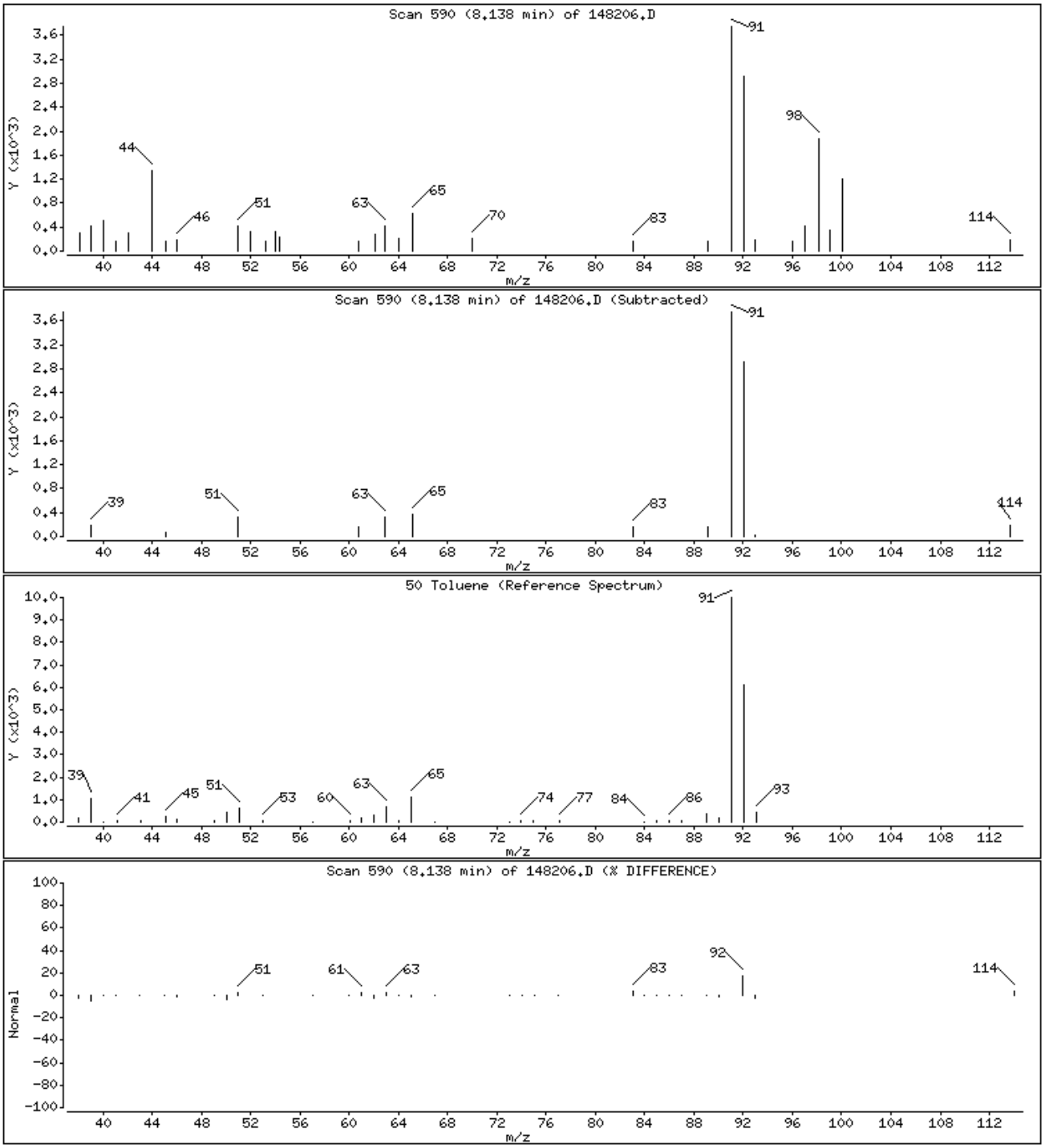
Operator: 2807

Column phase: DB624

Column diameter: 0.18

50 Toluene

Concentration: 0.2801 UG/KG



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Date : 25-FEB-2010 20:40

Client ID: ATASS-015M-5036-SO(

Instrument: a3ux14.i

Sample Info: LVTT71AC,5G/5ML

Purge Volume: 5.0

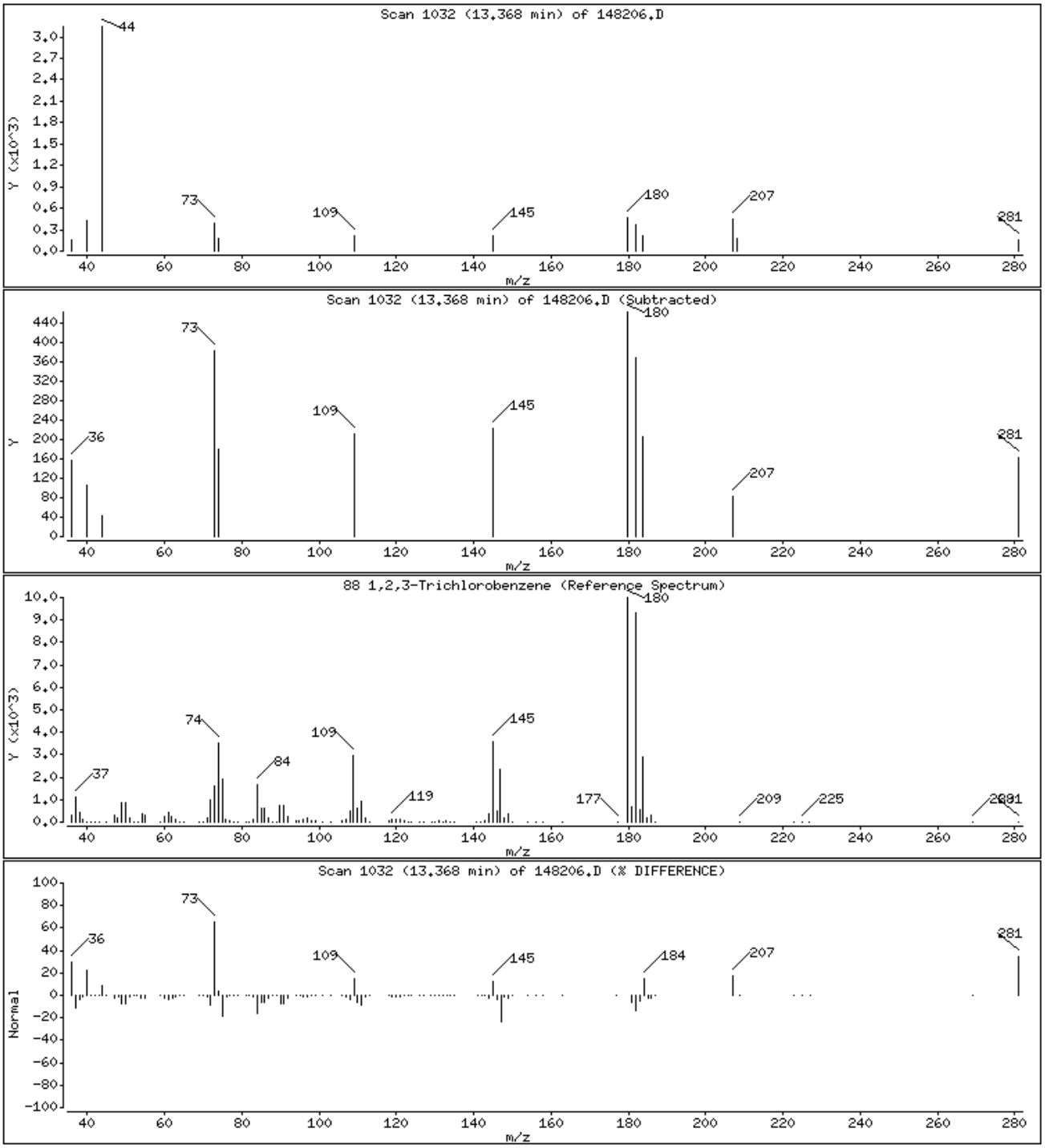
Operator: 2807

Column phase: DB624

Column diameter: 0.18

88 1,2,3-Trichlorobenzene

Concentration: 0.1180 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148206.D

Date : 25-FEB-2010 20:40

Client ID: ATASS-015M-5036-SO(

Instrument: a3ux14.i

Sample Info: LVTT71AC,5G/5ML

Purge Volume: 5.0

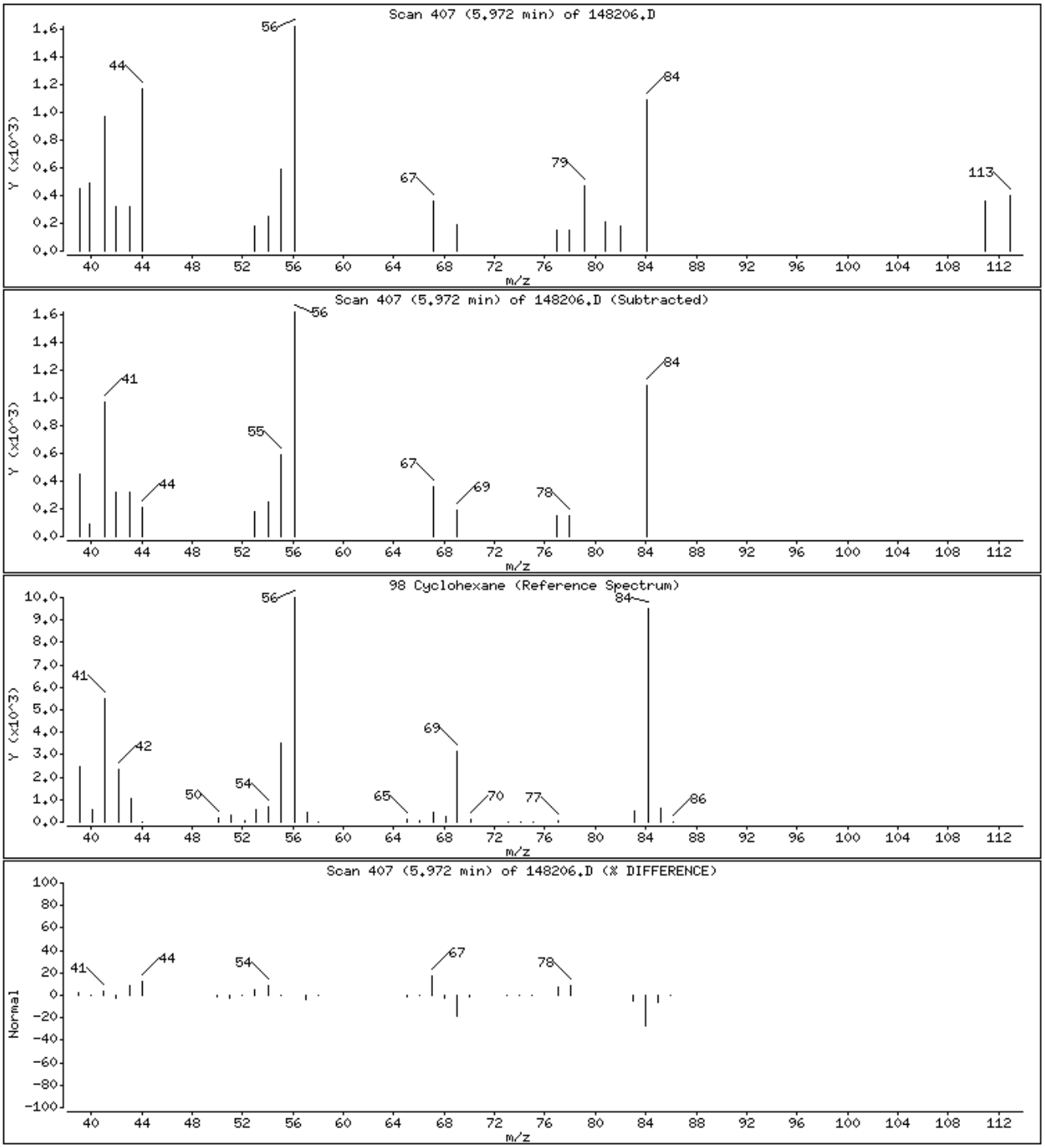
Operator: 2807

Column phase: DB624

Column diameter: 0.18

98 Cyclohexane

Concentration: 0.3031 UG/KG



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 15-Jan-2010 11:27

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Start Cal Date: 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
14-JAN-2010 17:14	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
08-JAN-2010 18:18	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147289.D
14-JAN-2010 13:21	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Cal Level: 2 , Cal Amount: 10.00000		
14-JAN-2010 16:50	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
08-JAN-2010 17:55	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147288.D
14-JAN-2010 12:59	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Cal Level: 3 , Cal Amount: 25.00000		
14-JAN-2010 16:27	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
08-JAN-2010 17:33	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147287.D
14-JAN-2010 12:36	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Cal Level: 4 , Cal Amount: 50.00000		
14-JAN-2010 16:03	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
08-JAN-2010 17:11	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147286.D
14-JAN-2010 12:14	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Cal Level: 5 , Cal Amount: 100.00000		
14-JAN-2010 15:39	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
08-JAN-2010 16:49	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147285.D

14-JAN-2010 11:51	1-8260	
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08-JAN-2010 16:27	3-IX	
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14-JAN-2010 11:29	1-8260	
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08-JAN-2010 16:06	3-IX	
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Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

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~~14-JAN-2010 14:07~~	~~3-IX~~	
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1-15-10

Report Date : 15-Jan-2010 11:21

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Level 8: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
8 Dichlorodifluoromethane	0.24512	0.22637	0.29312	0.26584	0.25836	0.22478		
	0.25377	0.25550					0.25286	8.687
9 Chloromethane	0.42760	0.36493	0.38632	0.37473	0.35555	0.33446		
	0.34515	0.33569					0.36556	8.489
10 Vinyl Chloride	0.26549	0.28334	0.29549	0.28345	0.28191	0.26248		
	0.26455	0.26910					0.27573	4.325
11 Bromomethane	0.16671	0.14740	0.14735	0.11780	0.13810	0.12513		
	0.12079	0.11372					0.13462	13.663
12 Chloroethane	0.19677	0.17979	0.17143	0.16587	0.15197	0.14043		
	0.13197	+++++					0.16260	13.966
13 Trichlorofluoromethane	0.23047	0.24528	0.27583	0.28521	0.27605	0.25898		
	0.27441	0.27809					0.26554	7.149
14 Dichlorofluoromethane	0.29538	0.25019	0.29271	0.24864	0.26333	0.25614		
	0.21871	0.22084					0.25574	11.125
15 Acrolein	0.03500	0.03646	0.03273	0.03061	0.03485	0.02713		
	0.03125	0.02333					0.03142	14.040

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Start Cal Date : 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
16 Acetone	+++++	+++++	0.15676	0.12459	0.10681	0.08897		
	0.08404	0.07046					0.10527	29.902
17 1,1-Dichloroethene	0.25543	0.22821	0.24875	0.24244	0.24031	0.22889		
	0.23230	0.23451					0.23886	4.072
18 Freon-113	0.15989	0.18326	0.19650	0.20474	0.19956	0.19157		
	0.19670	0.20241					0.19183	7.574
19 Iodomethane	0.41190	0.41853	0.41379	0.41730	0.39941	0.39424		
	0.39593	0.40575					0.40711	2.373
20 Carbon Disulfide	0.61213	0.67218	0.68222	0.69759	0.67790	0.68612		
	0.70728	0.73775					0.68415	5.231
21 Methylene Chloride	+++++	+++++	0.45689	0.37446	0.31259	0.26822		
	0.25845	0.25237					0.32050	25.272
22 Acetonitrile	+++++	0.04002	0.03499	0.03418	0.03425	0.03141		
	0.03048	0.02681					0.03316	12.507
23 Acrylonitrile	0.09873	0.10132	0.09529	0.10049	0.10769	0.09823		
	0.09751	0.08789					0.09839	5.703
24 Methyl tert-butyl ether	0.53105	0.56003	0.58859	0.63771	0.65588	0.66764		
	0.67729	0.64640					0.62058	8.687
25 trans-1,2-Dichloroethene	0.30298	0.27861	0.28146	0.28115	0.27412	0.26566		
	0.26968	0.26535					0.27738	4.394
26 Hexane	0.06818	0.05919	0.06347	0.06206	0.06340	0.06360		
	0.06492	0.06727					0.06401	4.446

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
27 Vinyl acetate	0.27857	0.26576	0.27708	0.30336	0.33467	0.36377		
	0.36959	0.36730					0.32001	13.777
154 Vinyl Acetate**2nd**	+++++	+++++	0.02226	0.02595	0.02824	0.03177		
	0.03104	0.03181					0.02851	13.450
28 1,1-Dichloroethane	0.47614	0.50016	0.51634	0.50469	0.49915	0.48570		
	0.49304	0.49547					0.49634	2.438
29 tert-Butyl Alcohol	0.02185	0.02007	0.02067	0.02240	0.02417	0.02556		
	0.02534	0.02084					0.02261	9.533
30 2-Butanone	0.15894	0.13321	0.11448	0.12355	0.12907	0.12850		
	0.12419	0.11292					0.12811	11.158
M 31 1,2-Dichloroethene (total)	0.28719	0.27849	0.28402	0.28809	0.28260	0.27376		
	0.27838	0.27381					0.28079	1.983
32 cis-1,2-dichloroethene	0.27139	0.27837	0.28658	0.29502	0.29109	0.28186		
	0.28707	0.28227					0.28421	2.612
33 2,2-Dichloropropane	0.18179	0.17671	0.18243	0.19872	0.19625	0.20171		
	0.20572	0.21025					0.19420	6.366
34 Bromochloromethane	0.15515	0.13795	0.13821	0.13906	0.13595	0.13450		
	0.13437	0.12992					0.13814	5.405
35 Chloroform	0.47045	0.44710	0.45697	0.46723	0.45483	0.44638		
	0.44744	0.44930					0.45496	2.066
36 Tetrahydrofuran	+++++	0.09325	0.08510	0.08056	0.08038	0.08218		
	0.08397	0.07542					0.08298	6.626

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	500.000 Level 7	1000.000 Level 8							
37 1,1,1-Trichloroethane	0.29588	0.31020	0.31886	0.35046	0.32864	0.34089			
	0.33660	0.35024					0.32897	5.930	
38 1,1-Dichloropropene	0.28692	0.30509	0.35013	0.35883	0.35804	0.35895			
	0.36427	0.37757					0.34497	9.154	
39 Carbon Tetrachloride	0.22410	0.27735	0.28113	0.30513	0.29106	0.29754			
	0.30178	0.30933					0.28593	9.577	
40 1,2-Dichloroethane	0.35141	0.32766	0.35354	0.33131	0.34294	0.33764			
	0.32608	0.32325					0.33673	3.450	
41 Benzene	1.08331	1.12270	1.09023	1.09541	1.05254	1.05927			
	1.06113	1.08007					1.08058	2.132	
42 Trichloroethene	0.29034	0.30732	0.29234	0.30670	0.29195	0.29551			
	0.29506	0.30332					0.29782	2.315	
43 1,2-Dichloropropane	0.25237	0.26526	0.26978	0.27227	0.27169	0.28057			
	0.27194	0.28181					0.27071	3.398	
44 1,4-Dioxane	0.00189	0.00177	0.00208	0.00233	0.00255	0.00261			
	0.00244	0.00220					0.00223	13.733	<-
45 Dibromomethane	0.15115	0.12624	0.14050	0.13878	0.13553	0.14251			
	0.13416	0.13402					0.13786	5.307	
46 Bromodichloromethane	0.24738	0.25905	0.26074	0.28159	0.28408	0.29465			
	0.29899	0.30915					0.27945	7.788	
47 2-Chloroethyl vinyl ether	0.06646	0.07261	0.08107	0.09513	0.11034	0.13041			
	0.12583	0.13323					0.10188	26.316	

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Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
48 cis-1,3-Dichloropropene	+++++	+++++	0.27586	0.31639	0.33554	0.37475		
	0.36803	0.39164					0.34370	12.528
49 4-Methyl-2-pentanone	+++++	0.23984	0.25432	0.28947	0.33068	0.34275		
	0.34389	0.31238					0.30190	13.949
50 Toluene	1.38045	1.38434	1.45659	1.46607	1.47019	1.53313		
	1.52477	1.59727					1.47660	5.015
51 trans-1,3-Dichloropropene	+++++	+++++	0.31461	0.34297	0.36832	0.42993		
	0.42615	0.44640					0.38806	13.841
52 Ethyl Methacrylate	0.21587	0.21635	0.25597	0.28150	0.32668	0.38676		
	0.38948	0.38737					0.30750	24.518
53 1,1,2-Trichloroethane	0.27652	0.24754	0.27102	0.24977	0.26690	0.27474		
	0.25968	0.26111					0.26341	4.127
54 1,3-Dichloropropane	0.41224	0.41925	0.43850	0.43824	0.44711	0.47052		
	0.45056	0.45409					0.44131	4.269
55 Tetrachloroethene	0.29512	0.30909	0.32584	0.31806	0.30660	0.30873		
	0.31207	0.31840					0.31174	2.975
56 2-Hexanone	+++++	0.16511	0.17438	0.19153	0.22577	0.24702		
	0.23340	0.21874					0.20799	15.000
57 Dibromochloromethane	0.22968	0.23431	0.24259	0.27396	0.28218	0.30742		
	0.30938	0.32011					0.27496	13.099
58 1,2-Dibromoethane	0.26779	0.22456	0.23888	0.24547	0.26368	0.26991		
	0.26339	0.26091					0.25432	6.376

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	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
		500.000 Level 7	1000.000 Level 8						
	59 Chlorobenzene	1.07406	1.02899	1.00247	1.00614	0.99359	1.00884		
		0.98994	1.01551					1.01494	2.645
	60 1,1,1,2-Tetrachloroethane	0.28131	0.31373	0.30846	0.32857	0.33095	0.33565		
		0.33775	0.33875					0.32190	6.153
	61 Ethylbenzene	0.43458	0.49215	0.49804	0.53582	0.53723	0.56295		
		0.55878	0.56543					0.52312	8.681
	62 m + p-Xylene	0.51104	0.56573	0.62070	0.66725	0.66450	0.68289		
		0.67052	0.68039					0.63288	9.968
M	63 Xylenes (total)	0.51222	0.55693	0.60257	0.65173	0.65226	0.67007		
		0.65695	0.66280					0.62069	9.364
	64 Xylene-o	0.51458	0.53931	0.56631	0.62069	0.62779	0.64442		
		0.62980	0.62764					0.59632	8.223
	65 Styrene	+++++	0.71838	0.83322	0.92205	0.99485	1.05417		
		1.05543	1.05710					0.94789	13.855
	66 Bromoform	0.13896	0.14466	0.14074	0.16038	0.16891	0.18971		
		0.19284	0.19554					0.16647	14.392
	67 Isopropylbenzene	+++++	1.23184	1.49697	1.62185	1.67385	1.68068		
		1.73640	1.76109					1.60039	11.498
	68 1,1,2,2-Tetrachloroethane	0.57457	0.61928	0.57194	0.60385	0.62132	0.66412		
		0.63399	0.61696					0.61326	4.940
	69 1,4-Dichloro-2-butene	0.17621	0.16924	0.15831	0.18452	0.19355	0.21511		
		0.21145	0.21377					0.19027	11.451

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Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
70 1,2,3-Trichloropropane	0.17170	0.18316	0.17169	0.17403	0.17560	0.19019		
	0.17989	0.17552					0.17772	3.593
71 Bromobenzene	0.70970	0.71617	0.70245	0.71703	0.73838	0.77342		
	0.75106	0.78042					0.73608	4.036
72 n-Propylbenzene	+++++	+++++	0.72777	0.79541	0.85317	0.90389		
	0.89536	0.95944					0.85584	9.729
73 2-Chlorotoluene	0.55746	0.60105	0.67157	0.70880	0.74867	0.75615		
	0.74480	0.78166					0.69627	11.526
74 1,3,5-Trimethylbenzene	+++++	1.71952	2.11358	2.35330	2.50416	2.56582		
	2.57516	2.76084					2.37034	14.819
75 4-Chlorotoluene	0.63259	0.65758	0.73077	0.75635	0.76530	0.78784		
	0.75676	0.79422					0.73518	8.071
76 tert-Butylbenzene	+++++	1.65508	1.96567	2.13250	2.25770	2.39270		
	2.40302	2.55722					2.19484	13.987
77 1,2,4-Trimethylbenzene	+++++	1.73397	2.21612	2.42169	2.52345	2.60369		
	2.61878	2.81885					2.41951	14.664
78 sec-Butylbenzene	+++++	2.27366	2.94181	3.10114	3.21818	3.36225		
	3.48658	3.71171					3.15647	14.701
79 4-Isopropyltoluene	+++++	+++++	2.29990	2.48976	2.64117	2.77039		
	2.84030	3.05466					2.68270	9.952
80 1,3-Dichlorobenzene	1.39760	1.39536	1.36910	1.36814	1.38576	1.39827		
	1.39966	1.46646					1.39754	2.193

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	500.000 Level 7	1000.000 Level 8							
81 1,4-Dichlorobenzene	1.74236	1.47939	1.48759	1.42762	1.43281	1.41997			
	1.39725	1.47392					1.48261	7.402	
82 n-Butylbenzene	+++++	+++++	1.99169	2.14846	2.23892	2.41147			
	2.49525	2.68071					2.32775	10.742	
83 1,2-Dichlorobenzene	1.33193	1.33879	1.32606	1.29282	1.30517	1.28114			
	1.28168	1.31017					1.30847	1.709	
84 1,2-Dibromo-3-chloropropane	+++++	0.09136	0.09272	0.10001	0.10606	0.11309			
	0.11941	0.11819					0.10583	10.943	
85 1,2,4-Trichlorobenzene	0.73556	0.75799	0.76530	0.83332	0.85618	0.90598			
	0.94965	0.97001					0.84675	10.604	
86 Hexachlorobutadiene	0.51656	0.52155	0.51347	0.51454	0.54954	0.54564			
	0.58146	0.59957					0.54279	6.058	
87 Naphthalene	+++++	+++++	1.45699	1.76735	2.01575	2.11579			
	2.19283	2.14381					1.94875	14.600	
88 1,2,3-Trichlorobenzene	0.79204	0.77832	0.75896	0.81610	0.88582	0.87696			
	0.87713	0.88742					0.83409	6.417	
89 Ethyl Ether	0.22485	0.20658	0.21102	0.21793	0.21062	0.20849			
	0.20188	0.19532					0.20958	4.339	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
91 3-Chloropropene	0.12004	0.11312	0.13322	0.12820	0.13044	0.13849			
	0.13535	0.14033					0.12990	7.160	

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	500.000 Level 7	1000.000 Level 8							
92 Isopropyl Ether	0.18891	0.18586	0.22686	0.24347	0.23727	0.23925			
	0.23203	0.22237					0.22200	10.097	
93 2-Chloro-1,3-butadiene	0.27829	0.25023	0.31281	0.33396	0.33597	0.36927			
	0.37475	0.39179					0.33088	14.780	
94 Propionitrile	0.04323	0.03827	0.03760	0.04128	0.04063	0.03981			
	0.03976	0.03448					0.03938	6.701	
95 Ethyl Acetate	0.22895	0.24226	0.24941	0.26510	0.26947	0.27468			
	0.29210	0.25422					0.25952	7.685	
96 Methacrylonitrile	0.09735	0.07350	0.08675	0.09490	0.09528	0.09838			
	0.10169	0.09061					0.09231	9.631	
97 Isobutanol	+++++	0.00664	0.00629	0.00721	0.00778	0.00876			
	0.00950	0.00782					0.00771	14.721	<-
98 Cyclohexane	+++++	0.47139	0.53141	0.58953	0.61395	0.61732			
	0.63420	0.65074					0.58694	10.865	
99 n-Butanol	0.00680	0.00616	0.00584	0.00609	0.00724	0.00849			
	0.00931	0.00777					0.00721	17.189	<-
100 Methyl Methacrylate	+++++	+++++	0.17278	0.18856	0.20508	0.21616			
	0.24767	0.22328					0.20892	12.656	
101 2-Nitropropane	0.07165	0.05857	0.05550	0.05574	0.05968	0.06445			
	0.07296	0.06735					0.06324	10.927	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

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Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
25 Cyclohexanone	0.07872	0.08126	0.07739	0.12717	0.14524	0.16260			
	0.16603	0.14858					0.12337	31.195	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
141 1,3,5-Trichlorobenzene	0.89321	0.94269	0.96907	0.96371	0.99798	1.05040			
	1.05840	1.11212					0.99845	7.129	

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INITIAL CALIBRATION DATA

Start Cal Date : 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
143 Methyl Acetate	0.28099	0.25819	0.23630	0.23788	0.24808	0.23702			
	0.23392	0.21139					0.24297	8.361	
144 Methylcyclohexane	+++++	0.37722	0.46680	0.50751	0.51883	0.53127			
	0.55226	0.55891					0.50183	12.536	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
146 2-Methylnaphthalene	0.57760	0.51775	0.58935	0.74195	0.99907	1.26056			
	1.30874	1.20391					0.89987	36.876	
147 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
148 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
149 1,2:3,4-Diepoxybutane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
150 Bromoacetone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
151 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
152 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
153 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

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Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	500.000 Level 7	1000.000 Level 8	RRF	% RSD	
155 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
156 tert-Butyl Ethyl ether	0.61614	0.61413	0.69838	0.73851	0.75170	0.79729	0.80616	0.81847	0.73010	11.114	
157 tert-Amyl Methyl ether	0.47295	0.44926	0.50746	0.57647	0.57895	0.62059	0.63683	0.63635	0.55986	13.270	
158 1,2,3-Trimethylbenzene	2.11844	1.94724	2.23055	2.47833	2.45175	2.55140	2.50282	2.63169	2.36403	10.094	
$ 4 Dibromofluoromethane	0.35258	0.29956	0.27622	0.26223	0.26209	0.25557	0.25080	0.24436	0.27543	12.912	
$ 5 1,2-Dichloroethane-d4	+++++	0.34034	0.30565	0.28206	0.28017	0.25995	0.25688	0.25166	0.28239	11.201	
$ 6 Toluene-d8	1.60296	1.28060	1.32050	1.30140	1.32373	1.36730	1.31365	1.33218	1.35529	7.609	
$ 7 Bromofluorobenzene	+++++	1.00528	0.92713	0.89738	0.89467	0.96270	0.88903	0.91268	0.92698	4.613	

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INITIAL CALIBRATION DATA

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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Level 8: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
8 Dichlorodifluoromethane	0.24512	0.22637	0.29312	0.26584	0.25836	0.22478					
	0.25377	0.25550					AVRG		0.25286		8.68705
9 Chloromethane	0.42760	0.36493	0.38632	0.37473	0.35555	0.33446					
	0.34515	0.33569					AVRG		0.36556		8.48878
10 Vinyl Chloride	0.26549	0.28334	0.29549	0.28345	0.28191	0.26248					
	0.26455	0.26910					AVRG		0.27573		4.32516

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Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
11 Bromomethane	0.16671	0.14740	0.14735	0.11780	0.13810	0.12513					
	0.12079	0.11372					AVRG		0.13462		13.66298
12 Chloroethane	0.19677	0.17979	0.17143	0.16587	0.15197	0.14043					
	0.13197	+++++					AVRG		0.16260		13.96621
13 Trichlorofluoromethane	0.23047	0.24528	0.27583	0.28521	0.27605	0.25898					
	0.27441	0.27809					AVRG		0.26554		7.14904
14 Dichlorofluoromethane	0.29538	0.25019	0.29271	0.24864	0.26333	0.25614					
	0.21871	0.22084					AVRG		0.25574		11.12468
15 Acrolein	0.03500	0.03646	0.03273	0.03061	0.03485	0.02713					
	0.03125	0.02333					AVRG		0.03142		14.04042
16 Acetone	+++++	+++++	45722	72936	130272	288152					
	541674	894409					WLINR	-0.26836	0.07359		0.99144
17 1,1-Dichloroethene	0.25543	0.22821	0.24875	0.24244	0.24031	0.22889					
	0.23230	0.23451					AVRG		0.23886		4.07186

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Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
18 Freon-113	0.15989	0.18326	0.19650	0.20474	0.19956	0.19157	0.19670	0.20241	AVRG		0.19183		7.57382
19 Iodomethane	0.41190	0.41853	0.41379	0.41730	0.39941	0.39424	0.39593	0.40575	AVRG		0.40711		2.37346
20 Carbon Disulfide	0.61213	0.67218	0.68222	0.69759	0.67790	0.68612	0.70728	0.73775	AVRG		0.68415		5.23131
21 Methylene Chloride	+++++	+++++	66631	109609	190625	434370	832867	1601722	WLINR	-0.09238	0.24722		0.99972
22 Acetonitrile	+++++	0.04002	0.03499	0.03418	0.03425	0.03141	0.03048	0.02681	AVRG		0.03316		12.50651
23 Acrylonitrile	0.09873	0.10132	0.09529	0.10049	0.10769	0.09823	0.09751	0.08789	AVRG		0.09839		5.70290
24 Methyl tert-butyl ether	0.53105	0.56003	0.58859	0.63771	0.65588	0.66764	0.67729	0.64640	AVRG		0.62058		8.68677

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Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
25 trans-1,2-Dichloroethene	0.30298	0.27861	0.28146	0.28115	0.27412	0.26566					
	0.26968	0.26535					AVRG		0.27738		4.39407
26 Hexane	0.06818	0.05919	0.06347	0.06206	0.06340	0.06360					
	0.06492	0.06727					AVRG		0.06401		4.44604
27 Vinyl acetate	0.27857	0.26576	0.27708	0.30336	0.33467	0.36377					
	0.36959	0.36730					AVRG		0.32001		13.77658
154 Vinyl Acetate**2nd**	+++++	+++++	0.02226	0.02595	0.02824	0.03177					
	0.03104	0.03181					AVRG		0.02851		13.45027
28 1,1-Dichloroethane	0.47614	0.50016	0.51634	0.50469	0.49915	0.48570					
	0.49304	0.49547					AVRG		0.49634		2.43834
29 tert-Butyl Alcohol	0.02185	0.02007	0.02067	0.02240	0.02417	0.02556					
	0.02534	0.02084					AVRG		0.02261		9.53291
30 2-Butanone	0.15894	0.13321	0.11448	0.12355	0.12907	0.12850					
	0.12419	0.11292					AVRG		0.12811		11.15850

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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
M 31 1,2-Dichloroethene (total)	0.28719	0.27849	0.28402	0.28809	0.28260	0.27376	0.27838	0.27381	AVRG		0.28079		1.98343
32 cis-1,2-dichloroethene	0.27139	0.27837	0.28658	0.29502	0.29109	0.28186	0.28707	0.28227	AVRG		0.28421		2.61223
33 2,2-Dichloropropane	0.18179	0.17671	0.18243	0.19872	0.19625	0.20171	0.20572	0.21025	AVRG		0.19420		6.36588
34 Bromochloromethane	0.15515	0.13795	0.13821	0.13906	0.13595	0.13450	0.13437	0.12992	AVRG		0.13814		5.40535
35 Chloroform	0.47045	0.44710	0.45697	0.46723	0.45483	0.44638	0.44744	0.44930	AVRG		0.45496		2.06635
36 Tetrahydrofuran	+++++	0.09325	0.08510	0.08056	0.08038	0.08218	0.08397	0.07542	AVRG		0.08298		6.62614
37 1,1,1-Trichloroethane	0.29588	0.31020	0.31886	0.35046	0.32864	0.34089	0.33660	0.35024	AVRG		0.32897		5.93039

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Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
38 1,1-Dichloropropene	0.28692	0.30509	0.35013	0.35883	0.35804	0.35895						
	0.36427	0.37757					AVRG		0.34497		9.15384	
39 Carbon Tetrachloride	0.22410	0.27735	0.28113	0.30513	0.29106	0.29754						
	0.30178	0.30933					AVRG		0.28593		9.57695	
40 1,2-Dichloroethane	0.35141	0.32766	0.35354	0.33131	0.34294	0.33764						
	0.32608	0.32325					AVRG		0.33673		3.44971	
41 Benzene	1.08331	1.12270	1.09023	1.09541	1.05254	1.05927						
	1.06113	1.08007					AVRG		1.08058		2.13152	
42 Trichloroethene	0.29034	0.30732	0.29234	0.30670	0.29195	0.29551						
	0.29506	0.30332					AVRG		0.29782		2.31538	
43 1,2-Dichloropropane	0.25237	0.26526	0.26978	0.27227	0.27169	0.28057						
	0.27194	0.28181					AVRG		0.27071		3.39788	
44 1,4-Dioxane	0.00189	0.00177	0.00208	0.00233	0.00255	0.00261						
	0.00244	0.00220					AVRG		0.00223		13.73325	<-

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Compound	5.0000 Level 1 / 500.0000 Level 7	10.0000 Level 2 / 1000.0000 Level 8	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
45 Dibromomethane	0.15115	0.12624	0.14050	0.13878	0.13553	0.14251					
	0.13416	0.13402					AVRG		0.13786		5.30742
46 Bromodichloromethane	0.24738	0.25905	0.26074	0.28159	0.28408	0.29465					
	0.29899	0.30915					AVRG		0.27945		7.78821
47 2-Chloroethyl vinyl ether	3648	7878	23645	55693	134569	422388					
	810988	1691171					WLINR	0.03726	0.13054		0.99676
48 cis-1,3-Dichloropropene	+++++	+++++	0.27586	0.31639	0.33554	0.37475					
	0.36803	0.39164					AVRG		0.34370		12.52759
49 4-Methyl-2-pentanone	+++++	0.23984	0.25432	0.28947	0.33068	0.34275					
	0.34389	0.31238					AVRG		0.30190		13.94881
50 Toluene	1.38045	1.38434	1.45659	1.46607	1.47019	1.53313					
	1.52477	1.59727					AVRG		1.47660		5.01494
51 trans-1,3-Dichloropropene	+++++	+++++	0.31461	0.34297	0.36832	0.42993					
	0.42615	0.44640					AVRG		0.38806		13.84071

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
52 Ethyl Methacrylate	4328	8671	27032	60861	145998	473697					
	922275	1845847					WLINR	0.01741	0.38686		0.99729
53 1,1,2-Trichloroethane	0.27652	0.24754	0.27102	0.24977	0.26690	0.27474					
	0.25968	0.26111					AVRG		0.26341		4.12726
54 1,3-Dichloropropane	0.41224	0.41925	0.43850	0.43824	0.44711	0.47052					
	0.45056	0.45409					AVRG		0.44131		4.26941
55 Tetrachloroethene	0.29512	0.30909	0.32584	0.31806	0.30660	0.30873					
	0.31207	0.31840					AVRG		0.31174		2.97454
56 2-Hexanone	+++++	0.16511	0.17438	0.19153	0.22577	0.24702					
	0.23340	0.21874					AVRG		0.20799		14.99964
57 Dibromochloromethane	0.22968	0.23431	0.24259	0.27396	0.28218	0.30742					
	0.30938	0.32011					AVRG		0.27496		13.09878
58 1,2-Dibromoethane	0.26779	0.22456	0.23888	0.24547	0.26368	0.26991					
	0.26339	0.26091					AVRG		0.25432		6.37590

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	5.0000	10.0000	25.0000	50.0000	100.0000	250.0000		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	500.0000	1000.0000									
	Level 7	Level 8									
59 Chlorobenzene	1.07406	1.02899	1.00247	1.00614	0.99359	1.00884					
	0.98994	1.01551					AVRG		1.01494		2.64481
60 1,1,1,2-Tetrachloroethane	0.28131	0.31373	0.30846	0.32857	0.33095	0.33565					
	0.33775	0.33875					AVRG		0.32190		6.15282
61 Ethylbenzene	0.43458	0.49215	0.49804	0.53582	0.53723	0.56295					
	0.55878	0.56543					AVRG		0.52312		8.68099
62 m + p-Xylene	0.51104	0.56573	0.62070	0.66725	0.66450	0.68289					
	0.67052	0.68039					AVRG		0.63288		9.96787
M 63 Xylenes (total)	0.51222	0.55693	0.60257	0.65173	0.65226	0.67007					
	0.65695	0.66280					AVRG		0.62069		9.36388
64 Xylene-o	0.51458	0.53931	0.56631	0.62069	0.62779	0.64442					
	0.62980	0.62764					AVRG		0.59632		8.22302
65 Styrene	+++++	0.71838	0.83322	0.92205	0.99485	1.05417					
	1.05543	1.05710					AVRG		0.94789		13.85478

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INITIAL CALIBRATION DATA

Start Cal Date : 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
66 Bromoform	0.13896	0.14466	0.14074	0.16038	0.16891	0.18971					
	0.19284	0.19554					AVRG		0.16647		14.39246
67 Isopropylbenzene	+++++	1.23184	1.49697	1.62185	1.67385	1.68068					
	1.73640	1.76109					AVRG		1.60039		11.49763
68 1,1,2,2-Tetrachloroethane	0.57457	0.61928	0.57194	0.60385	0.62132	0.66412					
	0.63399	0.61696					AVRG		0.61326		4.94005
69 1,4-Dichloro-2-butene	0.17621	0.16924	0.15831	0.18452	0.19355	0.21511					
	0.21145	0.21377					AVRG		0.19027		11.45111
70 1,2,3-Trichloropropane	0.17170	0.18316	0.17169	0.17403	0.17560	0.19019					
	0.17989	0.17552					AVRG		0.17772		3.59279
71 Bromobenzene	0.70970	0.71617	0.70245	0.71703	0.73838	0.77342					
	0.75106	0.78042					AVRG		0.73608		4.03551
72 n-Propylbenzene	+++++	+++++	0.72777	0.79541	0.85317	0.90389					
	0.89536	0.95944					AVRG		0.85584		9.72869

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2
73 2-Chlorotoluene	0.55746	0.60105	0.67157	0.70880	0.74867	0.75615	0.74480	0.78166	AVRG		0.69627		11.52577
74 1,3,5-Trimethylbenzene	+++++	1.71952	2.11358	2.35330	2.50416	2.56582	2.57516	2.76084	AVRG		2.37034		14.81939
75 4-Chlorotoluene	0.63259	0.65758	0.73077	0.75635	0.76530	0.78784	0.75676	0.79422	AVRG		0.73518		8.07128
76 tert-Butylbenzene	+++++	1.65508	1.96567	2.13250	2.25770	2.39270	2.40302	2.55722	AVRG		2.19484		13.98744
77 1,2,4-Trimethylbenzene	+++++	1.73397	2.21612	2.42169	2.52345	2.60369	2.61878	2.81885	AVRG		2.41951		14.66359
78 sec-Butylbenzene	+++++	2.27366	2.94181	3.10114	3.21818	3.36225	3.48658	3.71171	AVRG		3.15647		14.70069
79 4-Isopropyltoluene	+++++	+++++	2.29990	2.48976	2.64117	2.77039	2.84030	3.05466	AVRG		2.68270		9.95162

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Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
80 1,3-Dichlorobenzene	1.39760	1.39536	1.36910	1.36814	1.38576	1.39827					
	1.39966	1.46646					AVRG		1.39754		2.19253
81 1,4-Dichlorobenzene	1.74236	1.47939	1.48759	1.42762	1.43281	1.41997					
	1.39725	1.47392					AVRG		1.48261		7.40164
82 n-Butylbenzene	+++++	+++++	1.99169	2.14846	2.23892	2.41147					
	2.49525	2.68071					AVRG		2.32775		10.74207
83 1,2-Dichlorobenzene	1.33193	1.33879	1.32606	1.29282	1.30517	1.28114					
	1.28168	1.31017					AVRG		1.30847		1.70934
84 1,2-Dibromo-3-chloropropane	+++++	0.09136	0.09272	0.10001	0.10606	0.11309					
	0.11941	0.11819					AVRG		0.10583		10.94328
85 1,2,4-Trichlorobenzene	0.73556	0.75799	0.76530	0.83332	0.85618	0.90598					
	0.94965	0.97001					AVRG		0.84675		10.60401
86 Hexachlorobutadiene	0.51656	0.52155	0.51347	0.51454	0.54954	0.54564					
	0.58146	0.59957					AVRG		0.54279		6.05828

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Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
87 Naphthalene	+++++	+++++	1.45699	1.76735	2.01575	2.11579						
	2.19283	2.14381					AVRG		1.94875		14.60005	
88 1,2,3-Trichlorobenzene	0.79204	0.77832	0.75896	0.81610	0.88582	0.87696						
	0.87713	0.88742					AVRG		0.83409		6.41740	
89 Ethyl Ether	0.22485	0.20658	0.21102	0.21793	0.21062	0.20849						
	0.20188	0.19532					AVRG		0.20958		4.33876	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
91 3-Chloropropene	0.12004	0.11312	0.13322	0.12820	0.13044	0.13849						
	0.13535	0.14033					AVRG		0.12990		7.15953	
92 Isopropyl Ether	0.18891	0.18586	0.22686	0.24347	0.23727	0.23925						
	0.23203	0.22237					AVRG		0.22200		10.09720	
93 2-Chloro-1,3-butadiene	0.27829	0.25023	0.31281	0.33396	0.33597	0.36927						
	0.37475	0.39179					AVRG		0.33088		14.77999	

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Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
94 Propionitrile	0.04323	0.03827	0.03760	0.04128	0.04063	0.03981						
	0.03976	0.03448					AVRG		0.03938		6.70058	
95 Ethyl Acetate	0.22895	0.24226	0.24941	0.26510	0.26947	0.27468						
	0.29210	0.25422					AVRG		0.25952		7.68511	
96 Methacrylonitrile	0.09735	0.07350	0.08675	0.09490	0.09528	0.09838						
	0.10169	0.09061					AVRG		0.09231		9.63078	
97 Isobutanol	+++++	0.00664	0.00629	0.00721	0.00778	0.00876						
	0.00950	0.00782					AVRG		0.00771		14.72087	<-
98 Cyclohexane	+++++	0.47139	0.53141	0.58953	0.61395	0.61732						
	0.63420	0.65074					AVRG		0.58694		10.86460	
99 n-Butanol	4084	7525	18683	39595	97046	275820						
	634435	1047397					WLINR	0.22641	0.00832		0.99047	<-
100 Methyl Methacrylate	+++++	+++++	0.17278	0.18856	0.20508	0.21616						
	0.24767	0.22328					AVRG		0.20892		12.65583	

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Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
101 2-Nitropropane	0.07165	0.05857	0.05550	0.05574	0.05968	0.06445						
	0.07296	0.06735					AVRG		0.06324		10.92691	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
25 Cyclohexanone	8103	16991	42148	143207	338140	939927						
	2071142	3547057					WLINR	0.17907	0.15636		0.99469	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++		AVRG		0.000e+000		0.000e+000	<-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++		AVRG		0.000e+000		0.000e+000	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++		AVRG		0.000e+000		0.000e+000	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++		AVRG		0.000e+000		0.000e+000	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		AVRG		0.000e+000		0.000e+000	<-
141 1,3,5-Trichlorobenzene	0.89321	0.94269	0.96907	0.96371	0.99798	1.05040	1.05840	1.11212	AVRG		0.99845		7.12939	
143 Methyl Acetate	0.28099	0.25819	0.23630	0.23788	0.24808	0.23702	0.23392	0.21139	AVRG		0.24297		8.36108	

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144 Methylcyclohexane	+++++	0.37722	0.46680	0.50751	0.51883	0.53127	0.55226	0.55891	AVRG		0.50183		12.53567	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
146 2-Methylnaphthalene	11891	21653	64191	167109	465200	1457360	3265074	5748365	WLINR	0.04667	1.24100		0.99253	
147 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
148 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
149 1,2:3,4-Diepoxybutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
150 Bromoacetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
151 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
152 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
153 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
155 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
156 tert-Butyl Ethyl ether	0.61614	0.61413	0.69838	0.73851	0.75170	0.79729						
	0.80616	0.81847					AVRG		0.73010		11.11396	
157 tert-Amyl Methyl ether	0.47295	0.44926	0.50746	0.57647	0.57895	0.62059						
	0.63683	0.63635					AVRG		0.55986		13.26984	
158 1,2,3-Trimethylbenzene	2.11844	1.94724	2.23055	2.47833	2.45175	2.55140						
	2.50282	2.63169					AVRG		2.36403		10.09434	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
$ 4 Dibromofluoromethane	0.35258	0.29956	0.27622	0.26223	0.26209	0.25557					
	0.25080	0.24436					AVRG		0.27543		12.91202
$ 5 1,2-Dichloroethane-d4	+++++	0.34034	0.30565	0.28206	0.28017	0.25995					
	0.25688	0.25166					AVRG		0.28239		11.20112
$ 6 Toluene-d8	1.60296	1.28060	1.32050	1.30140	1.32373	1.36730					
	1.31365	1.33218					AVRG		1.35529		7.60888
$ 7 Bromofluorobenzene	+++++	1.00528	0.92713	0.89738	0.89467	0.96270					
	0.88903	0.91268					AVRG		0.92698		4.61306

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Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response

Data review checklist: 8260 A/8260B/624 Initial Calibration

Method (check the applicable box): ☐ 8260A ☒ 8260B ☐ 624

Analysis Date: _____ **Run batch ID:** R001144-IC

Curve ID: R00114 / R00114-BB **(curve ID must include instrument designation and date reference)**

Acceptance criteria is found in the applicable laboratory SOP. If item is N/A, mark as such in Notes column

Item for review	Level I Yes	Level I No	Level II Yes	Level II No
Tune:				
BFB passes, all points within 12 hr clock (24 hr for 624)	Yes		Yes	
All calibration points ID'd on Calibration Summary Form	Yes		Yes	
Documentation: Raw data and run logs present for all points	Yes		Yes	
Run log and Raw data clearly indicate method by version	Yes		Yes	
RLs: Minimum of 5 points, lowest standards at or below RL	Yes		Yes	
Linearity: 8260 CCCs ≤ 30% RSD	Yes		Yes	
Linear Regression curve fit for all >15% RSD (35% 624) r2>0.980 (r>0.990)	Yes		Yes	
Plots for all Linear Regressions printed	Yes		Yes	
Response: SPCCs all pass minimum response factors	Yes		Yes	
ICV- Second source standard Analytes 60-140% recovery, problem compounds may be allowed outside these limits, but must be evaluated (acrolein, acrylonitrile, 2-ceve, propionitrile, trans 1,4-dichloro-2-butene) Internal Standards 50-200% of recent curve	Yes		Yes	
Manual integrations: necessary, correct & documented	NA		NA	
Other: Verify Avg RF on Cal Summary matches Avg RF on Con Cal form	NA		NA	

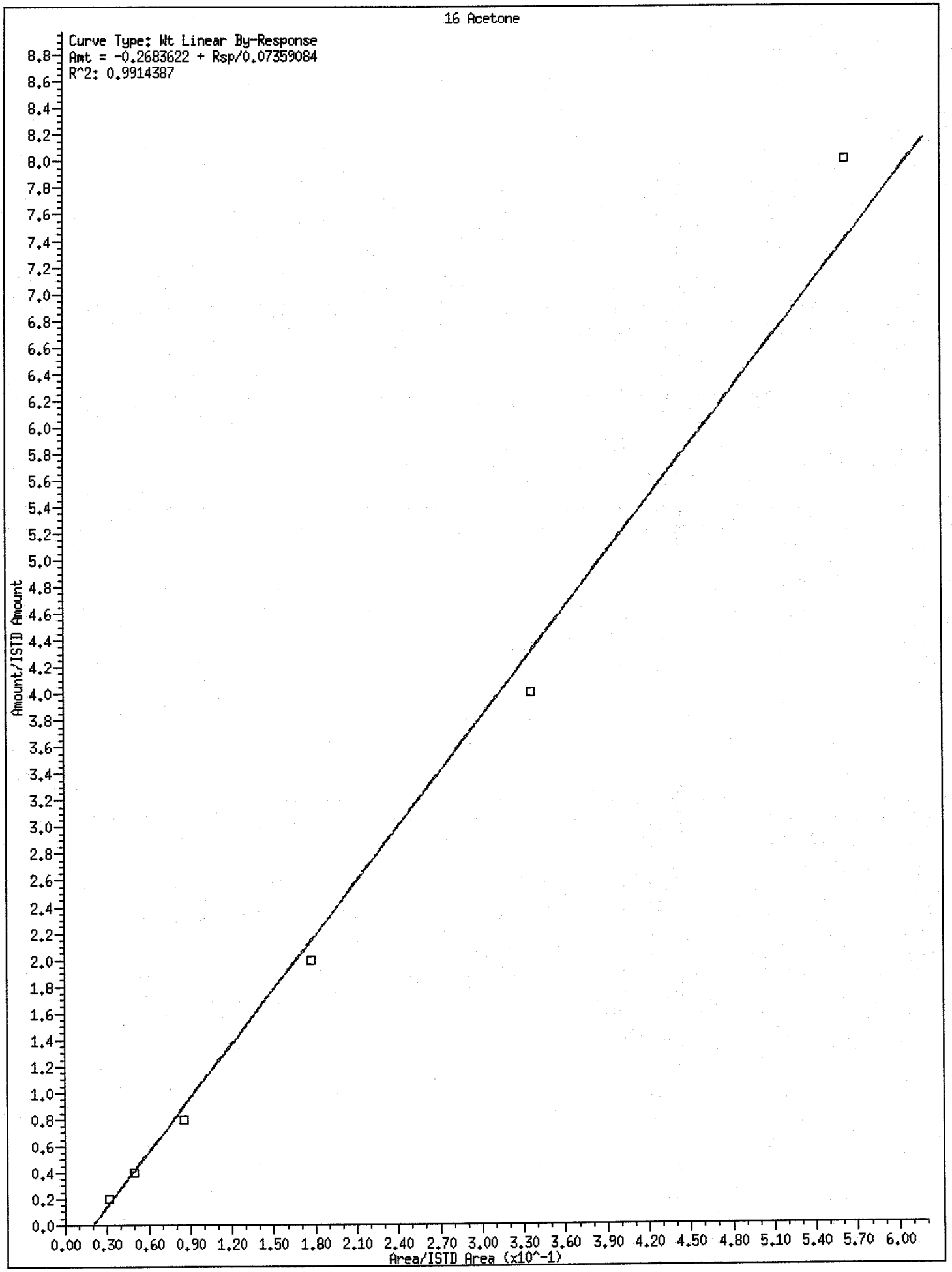
Reviewed by Analyst/ Level I: _____ Date: 1-19-10

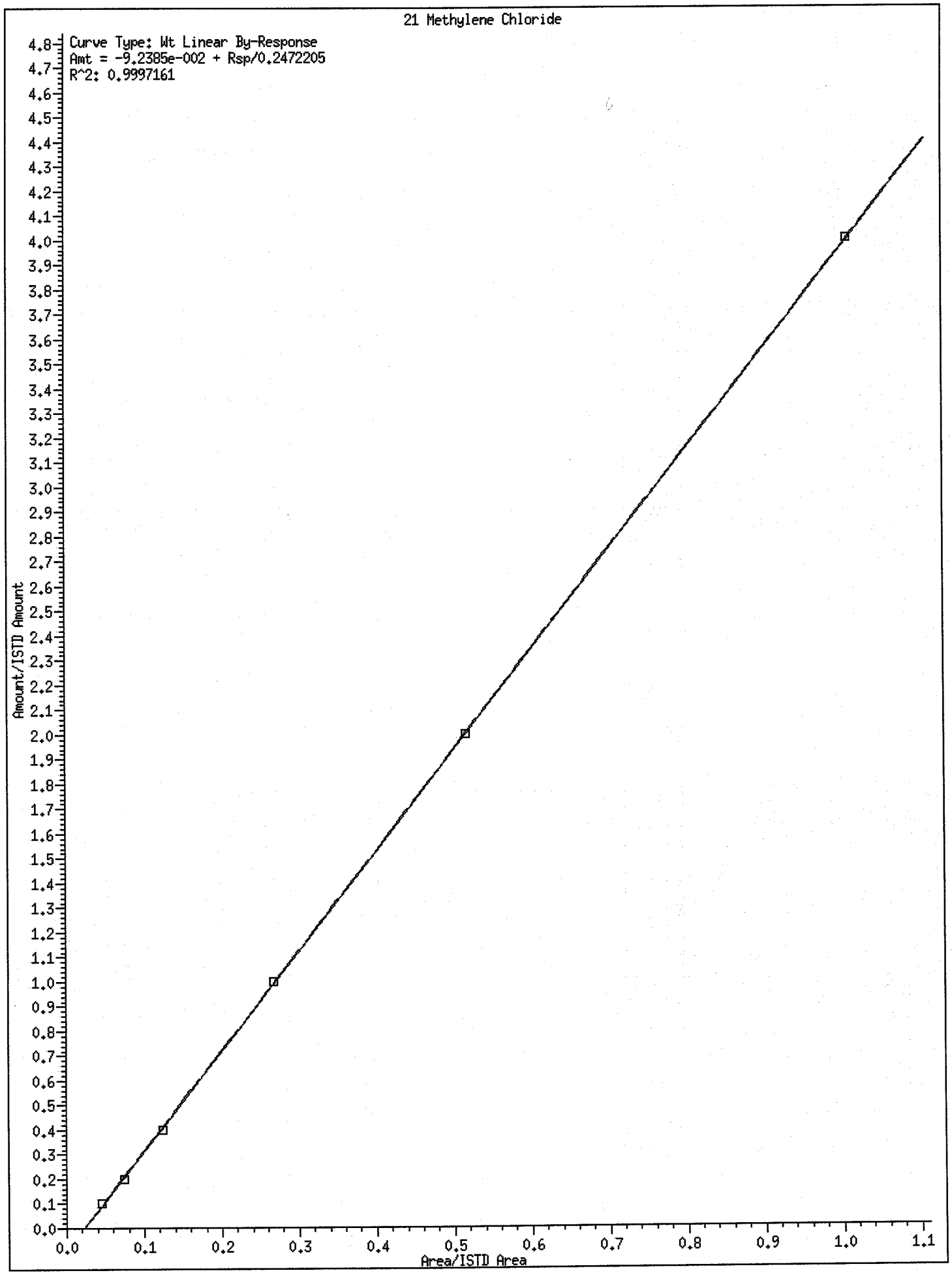
Reviewed by Peer/Sup/ Level II: _____ Date: 1-18-10

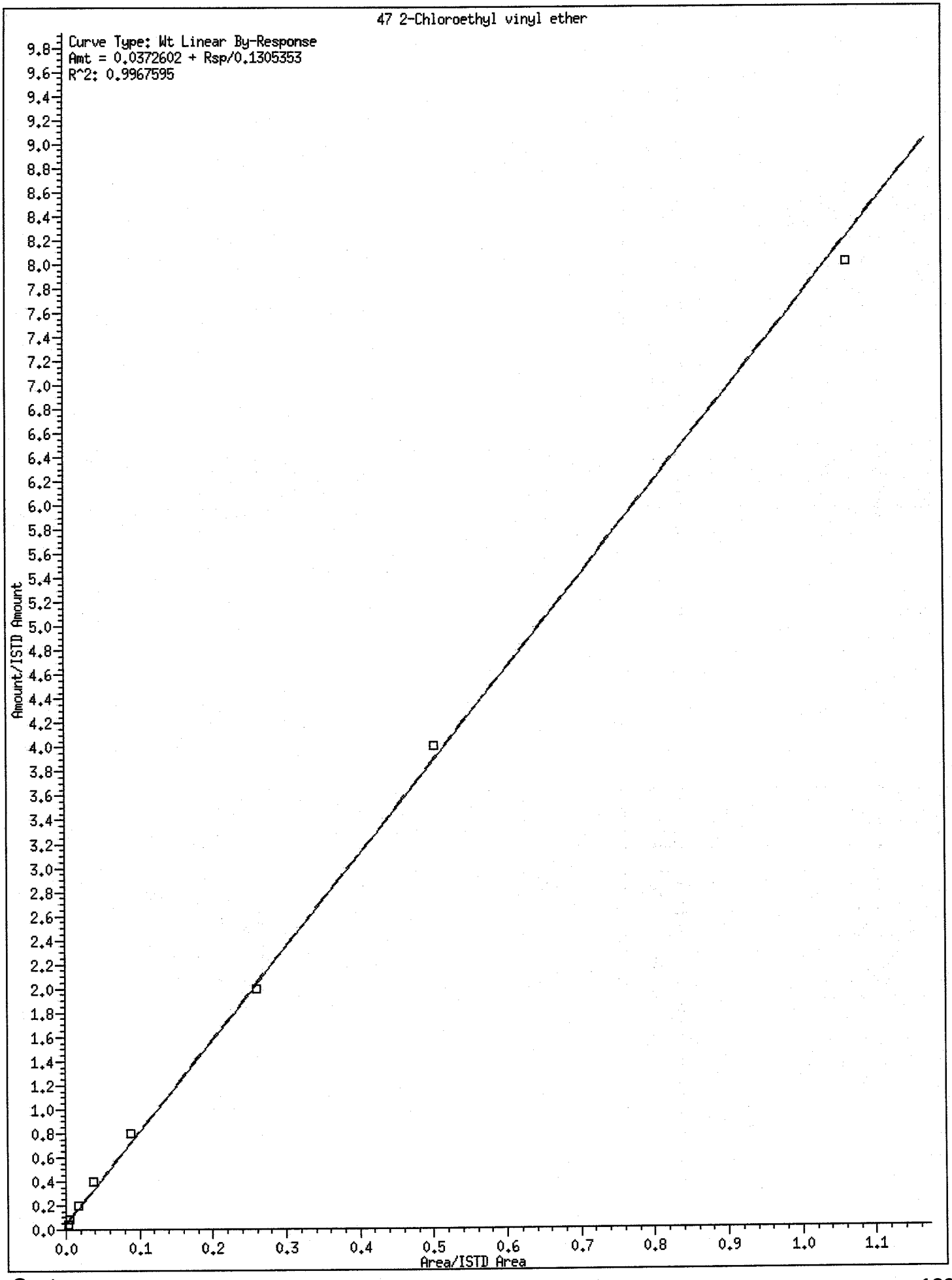
By signing in "Reviewed by" above I agree that I have reviewed the data as indicated on this checklist.

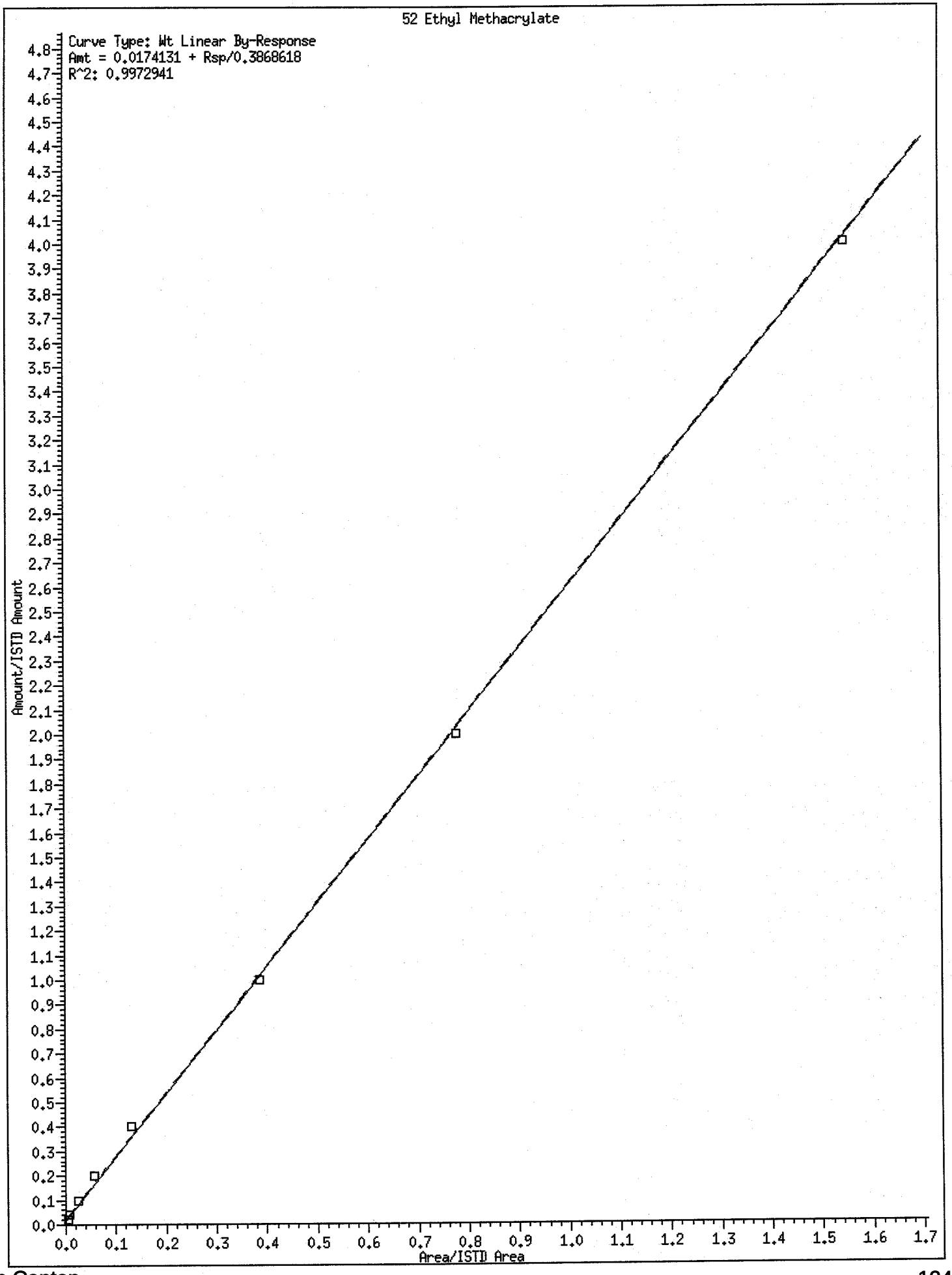
*Peer/Sup only: In addition to the items above, all manual integrations in this package have been reviewed and found acceptable.

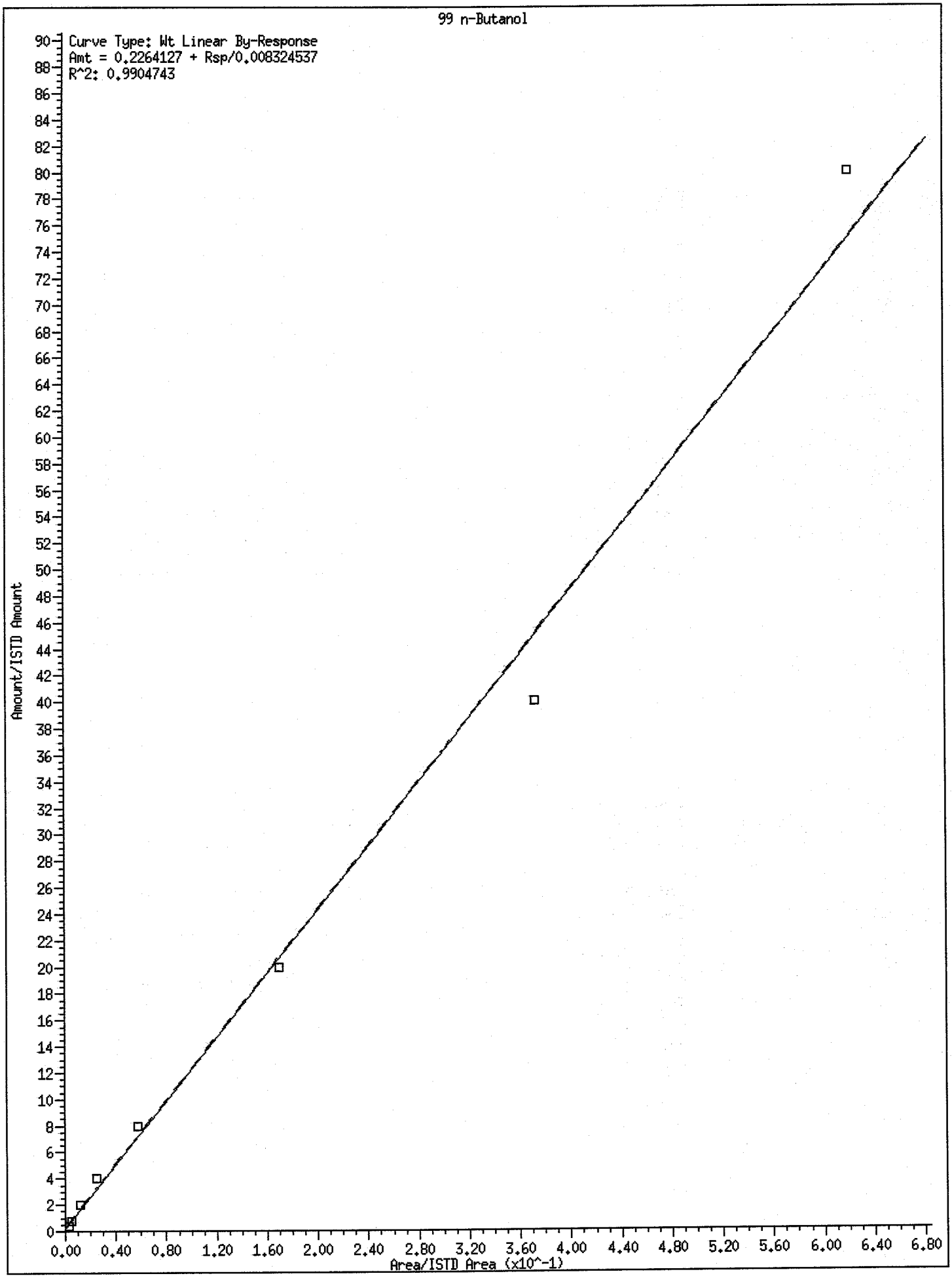
Reviewed by Peer/Sup: _____ Date: _____

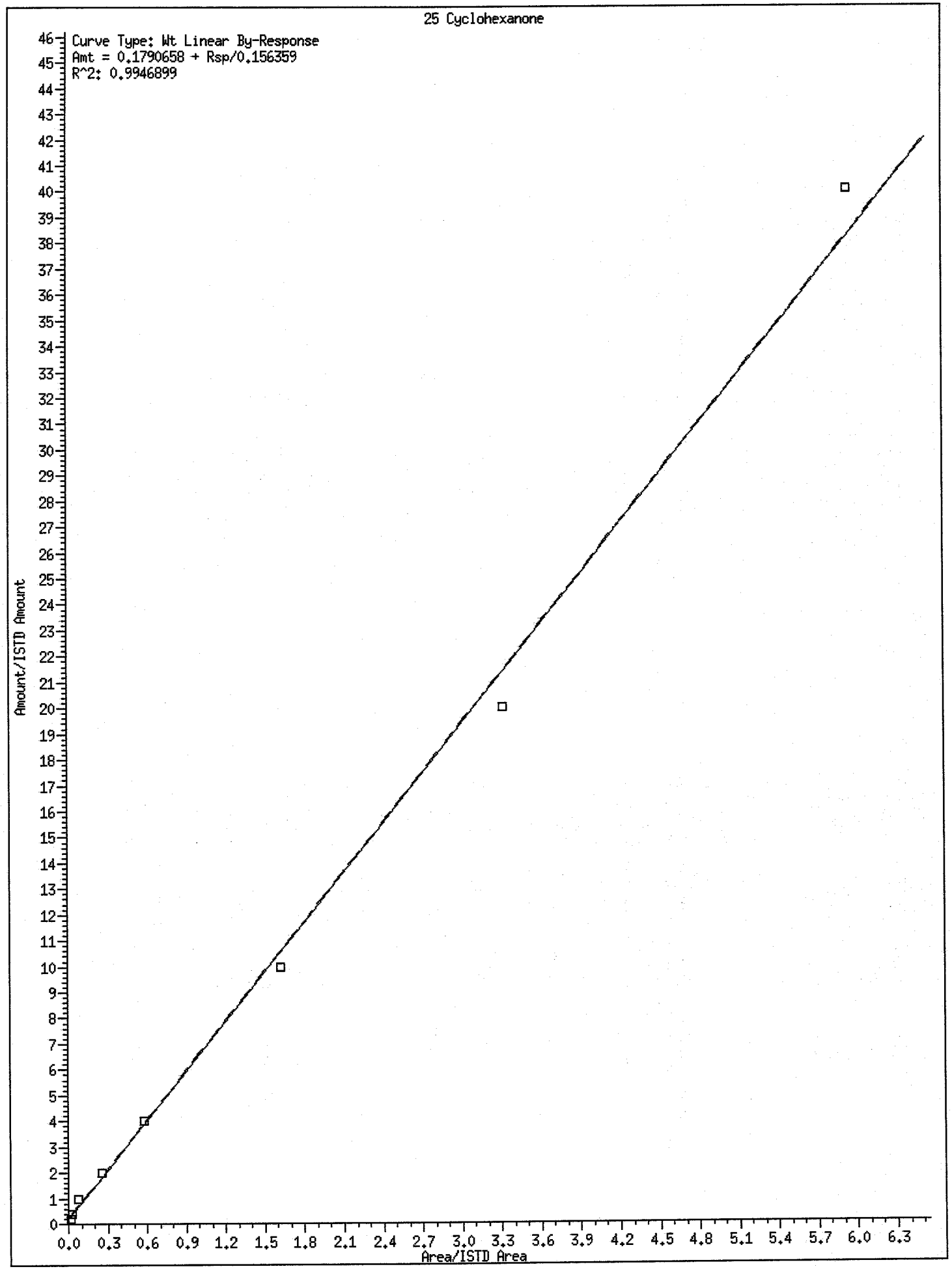

16 Acetone
Curve Type: Wt Linear By-Response
Amt = -0.2683622 + Rsp/0.07359084
R^2: 0.9914387
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8 7.0 7.2 7.4 7.6 7.8 8.0 8.2 8.4 8.6 8.8
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00

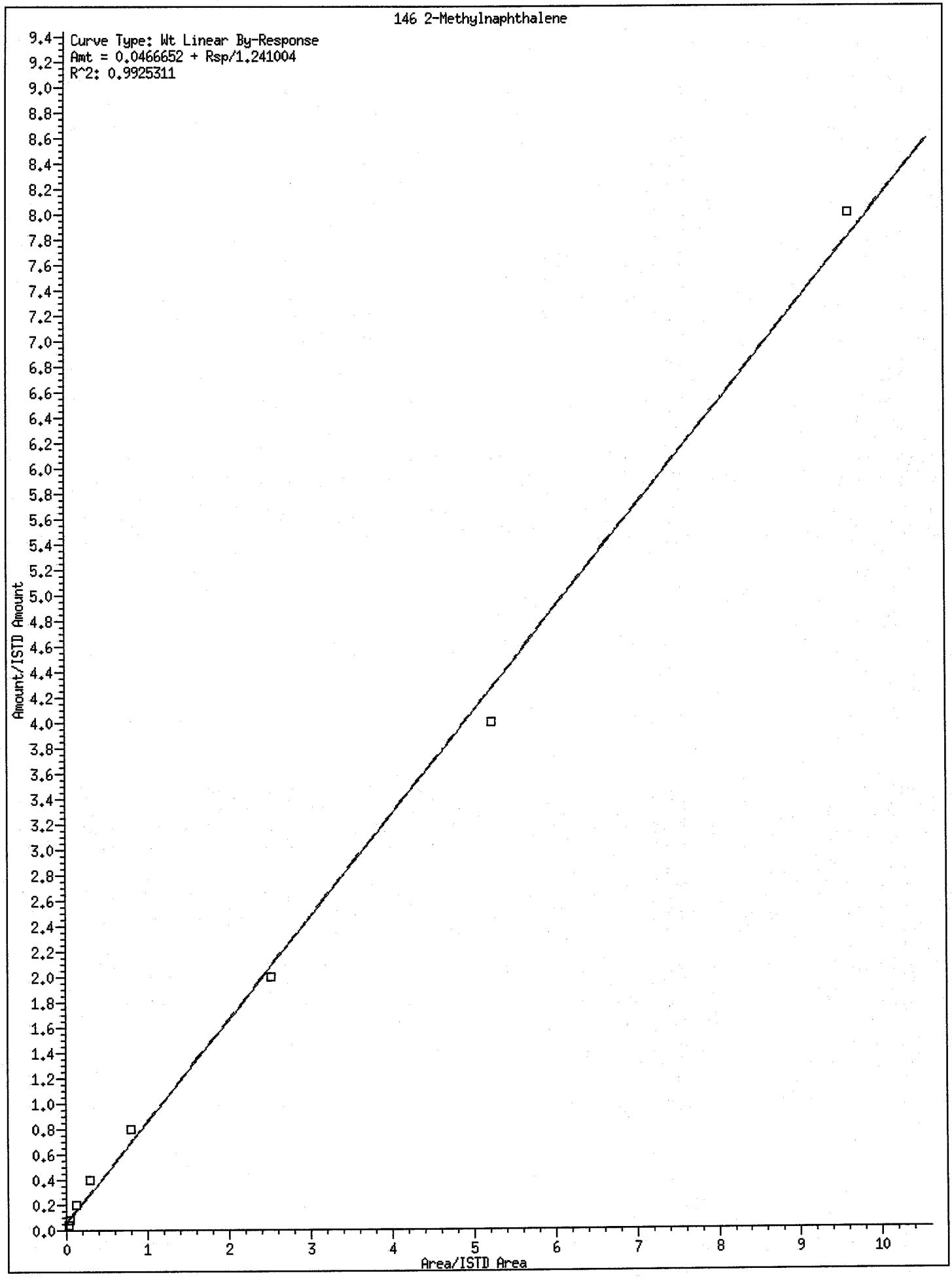

21 Methylene Chloride
Curve Type: Wt Linear By-Response
Amt = -9.2385e-002 + Rsp/0.2472205
R^2: 0.9997161
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0


47 2-Chloroethyl vinyl ether
Curve Type: Wt Linear By-Response
Amt = 0.0372602 + Rsp/0.1305353
R^2: 0.9967595
Amount/ISTD Amount
Area/ISTD Area


52 Ethyl Methacrylate
Curve Type: Wt Linear By-Response
Amt = 0.0174131 + Rsp/0.3868618
R^2: 0.9972941
Amount/ISTD Amount
Area/ISTD Area


99 n-Butanol
Curve Type: Wt Linear By-Response
Amt = 0.2264127 + Rsp/0.008324537
R^2: 0.9904743
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
3.20
3.60
4.00
4.40
4.80
5.20
5.60
6.00
6.40
6.80


25 Cyclohexanone
Curve Type: Wt Linear By-Response
Amt = 0.1790658 + Rsp/0.156359
R^2: 0.9946899
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0 6.3


146 2-Methylnaphthalene
Curve Type: Wt Linear By-Response
Amt = 0.0466652 + Rsp/1.241004
R^2: 0.9925311
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8
9.0
9.2
9.4
0
1
2
3
4
5
6
7
8
9
10

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Lab Smp Id: 1000NG-IC
Inj Date : 14-JAN-2010 10:45
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 1000NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,8
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 17:14 Cal File: 147369.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1586660	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1191268	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	599657	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	1550872	1000.00	887.21
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	1597211	1000.00	891.20
$	6 Toluene-d8	98	8.090	8.090	(0.867)	6347919	1000.00	982.95
$	7 Bromofluorobenzene	95	10.327	10.327	(0.913)	2189170	1000.00	984.57
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	1621536	1000.00	1010.4(A)
	9 Chloromethane	50	1.452	1.452	(0.220)	2130506	1000.00	918.30
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	1707911	1000.00	975.98
	12 Chloroethane	64	1.973	1.973	(0.299)	705117	1000.00	683.26
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	1764921	1000.00	1047.2(A)
	15 Acrolein	56	2.730	2.730	(0.414)	1480430	10000.0	7423.8
	16 Acetone	43	2.943	2.943	(0.446)	894409	2000.00	1338.7
	17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	1488368	1000.00	981.82
	18 Freon-113	151	2.884	2.884	(0.437)	1284629	1000.00	1055.2(A)
	19 Iodomethane	142	3.014	3.014	(0.457)	2575142	1000.00	996.67
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	4682251	1000.00	1078.4(A)
	21 Methylene Chloride	84	3.499	3.499	(0.530)	1601722	1000.00	787.44
	22 Acetonitrile	41	3.286	3.286	(0.498)	1701843	10000.0	8085.7
	23 Acrylonitrile	53	3.890	3.890	(0.589)	1115549	2000.00	1786.4
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	4102482	1000.00	1041.6(A)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	1684085	1000.00	956.64
26	Hexane	86	4.387	4.387	(0.665)	426926	1000.00	1050.9(A)
27	Vinyl acetate	43	4.694	4.694	(0.711)	2331140	1000.00	1147.8(A)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	201884	1000.00	1115.6(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	3144585	1000.00	998.26
29	tert-Butyl Alcohol	59	3.795	3.795	(0.575)	2645703	20000.0	18434
30	2-Butanone	43	5.380	5.380	(0.815)	1433284	2000.00	1762.8
M 31	1,2-Dichloroethene (total)	96				3475574	2000.00	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	1791489	1000.00	993.19
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	1334401	1000.00	1082.7(A)
34	Bromochloromethane	128	5.605	5.605	(0.849)	824533	1000.00	940.48
35	Chloroform	83	5.724	5.724	(0.867)	2851538	1000.00	987.55
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	478646	1000.00	908.86
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	2222868	1000.00	1064.7(A)
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	2396279	1000.00	1094.5(A)
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	1963226	1000.00	1081.8(A)
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	2051530	1000.00	959.96
41	Benzene	78	6.303	6.303	(0.955)	6854817	1000.00	999.52
42	Trichloroethene	130	6.966	6.966	(1.056)	1925055	1000.00	1018.5(A)
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	1788554	1000.00	1041.0(A)
44	1,4-Dioxane	88	7.309	7.309	(1.108)	697021	50000.0	49168
45	Dibromomethane	93	7.274	7.274	(1.102)	850550	1000.00	972.11
46	Bromodichloromethane	83	7.439	7.439	(1.127)	1962059	1000.00	1106.3(A)
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	1691171	2000.00	2615.4(A)
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	2485625	1000.00	1139.5(A)
49	4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	2976998	2000.00	2069.4(A)
50	Toluene	91	8.149	8.149	(0.873)	7611084	1000.00	1081.7(A)
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	2127124	1000.00	1150.3(A)
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	1845847	1000.00	1259.8(A)
53	1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	1244203	1000.00	991.27
54	1,3-Dichloropropane	76	8.635	8.635	(0.925)	2163749	1000.00	1028.9(A)
55	Tetrachloroethene	164	8.623	8.623	(0.924)	1517192	1000.00	1021.4(A)
56	2-Hexanone	43	8.717	8.717	(0.934)	2084655	2000.00	2103.4(A)
57	Dibromochloromethane	129	8.836	8.836	(0.947)	1525332	1000.00	1164.2(A)
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	1243278	1000.00	1025.9(A)
59	Chlorobenzene	112	9.356	9.356	(1.003)	4838972	1000.00	1000.6(A)
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	1614150	1000.00	1052.3(A)
61	Ethylbenzene	106	9.451	9.451	(1.013)	2694319	1000.00	1080.9(A)
62	m + p-Xylene	106	9.558	9.558	(1.024)	6484192	2000.00	2150.1(A)
64	Xylene-o	106	9.889	9.889	(1.060)	2990740	1000.00	1052.5(A)
65	Styrene	104	9.901	9.901	(1.061)	5037155	1000.00	1115.2(A)
66	Bromoform	173	10.054	10.054	(1.077)	931775	1000.00	1174.6(A)
67	Isopropylbenzene	105	10.208	10.208	(1.094)	8391727	1000.00	1100.4(A)
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	1479864	1000.00	1006.0(A)
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	512747	1000.00	1123.5(A)
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	421003	1000.00	987.60
71	Bromobenzene	156	10.457	10.457	(0.925)	1871938	1000.00	1060.2(A)
72	n-Propylbenzene	120	10.551	10.551	(0.933)	2301331	1000.00	1121.0(A)
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	1874900	1000.00	1122.6(A)
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	6622219	1000.00	1164.7(A)
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	1905045	1000.00	1080.3(A)
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	6133820	1000.00	1165.1(A)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	6761362	1000.00	1165.0(A)
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	8903000	1000.00	1175.9(A)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.285	11.285	(0.998)	7327000	1000.00	1138.6(A)
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	3517499	1000.00	1049.3(A)
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	3535389	1000.00	994.14
82	n-Butylbenzene	91	11.628	11.628	(1.028)	6430037	1000.00	1151.6(A)
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	3142614	1000.00	1001.3(A)
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	283496	1000.00	1116.7(A)
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	2326689	1000.00	1145.6(A)
87	Naphthalene	128	13.178	13.178	(1.165)	5142201	1000.00	1100.1(A)
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	1438134	1000.00	1104.6(A)
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	2128579	1000.00	1063.9(A)
98	Cyclohexane	56	5.960	5.960	(0.903)	4130035	1000.00	1108.7(A)
143	Methyl Acetate	43	3.393	3.393	(0.514)	2683177	2000.00	1740.0
144	Methylcyclohexane	83	7.144	7.144	(1.082)	3547186	1000.00	1113.7(A)
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	2667564	1000.00	1113.8(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147352.D
Lab Smp Id: 1000NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,8

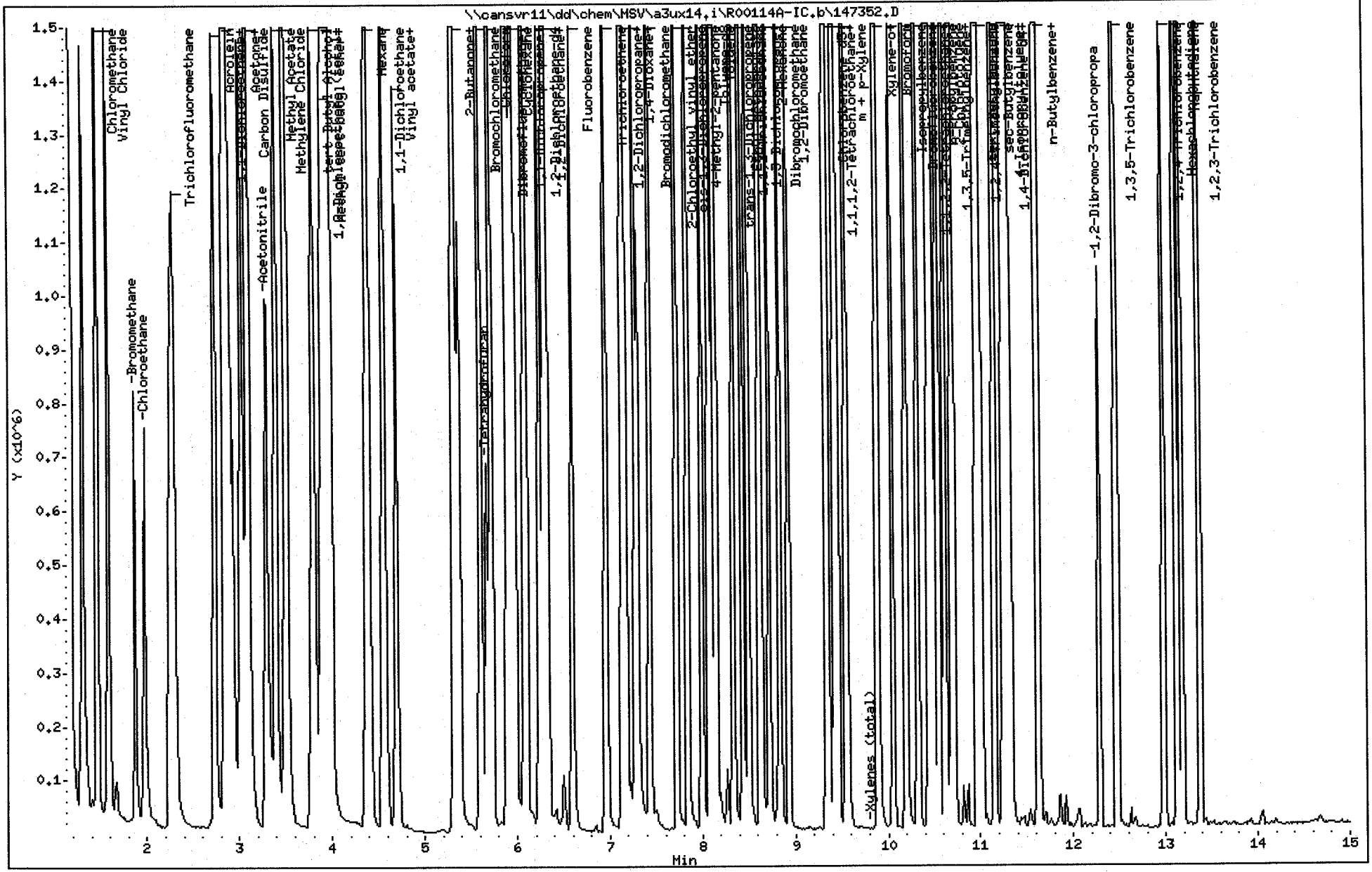
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1586660	11.21
2 Chlorobenzene-d5	1019841	509921	2039682	1191268	16.81
3 1,4-Dichlorobenze	550598	275299	1101196	599657	8.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Date : 14-JAN-2010 10:45
Client ID:
Sample Info: 1000NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Lab Smp Id: 500NG-IC
Inj Date : 14-JAN-2010 11:07
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 500NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,7
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:30 Cal File: 147362.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	6.599	6.599	(1.000)	1611295	250.000	
* 2	Chlorobenzene-d5	117	9.333	9.333	(1.000)	1183987	250.000	
* 3	1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	632285	250.000	
$ 4	Dibromofluoromethane	113	5.901	5.901	(0.894)	808217	500.000	455.29
$ 5	1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	827807	500.000	454.83
$ 6	Toluene-d8	98	8.090	8.090	(0.867)	3110681	500.000	484.64
$ 7	Bromofluorobenzene	95	10.327	10.327	(0.913)	1124235	500.000	479.53
8	Dichlorodifluoromethane	85	1.298	1.298	(0.197)	817803	500.000	501.81
9	Chloromethane	50	1.452	1.452	(0.220)	1112293	500.000	472.10
10	Vinyl Chloride	62	1.570	1.570	(0.238)	852541	500.000	479.73
12	Chloroethane	64	1.996	1.996	(0.303)	425274	500.000	405.79
13	Trichlorofluoromethane	101	2.268	2.268	(0.344)	884302	500.000	516.70
15	Acrolein	56	2.730	2.730	(0.414)	1007152	5000.00	4973.2
16	Acetone	43	2.931	2.931	(0.444)	541674	1000.00	798.35
17	1,1-Dichloroethene	96	2.848	2.848	(0.432)	748607	500.000	486.28
18	Freon-113	151	2.884	2.884	(0.437)	633881	500.000	512.70
19	Iodomethane	142	3.026	3.026	(0.459)	1275909	500.000	486.27
20	Carbon Disulfide	76	3.097	3.097	(0.469)	2279280	500.000	516.91
21	Methylene Chloride	84	3.511	3.511	(0.532)	832867	500.000	403.20
22	Acetonitrile	41	3.286	3.286	(0.498)	982098	5000.00	4594.7
23	Acrylonitrile	53	3.889	3.889	(0.589)	628461	1000.00	991.00
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	2182635	500.000	545.70

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	869075	500.000	486.13
	26 Hexane	86	4.386	4.386	(0.665)	209213	500.000	507.11
	27 Vinyl acetate	43	4.694	4.694	(0.711)	1191034	500.000	577.46
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	100038	500.000	544.36(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	1588852	500.000	496.68
	29 tert-Butyl Alcohol	59	3.783	3.783	(0.573)	1633101	10000.0	11205
	30 2-Butanone	43	5.380	5.380	(0.815)	800456	1000.00	969.44
M	31 1,2-Dichloroethene (total)	96				1794194	1000.00	
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	925119	500.000	505.04
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	662959	500.000	529.67
	34 Bromochloromethane	128	5.605	5.605	(0.849)	433029	500.000	486.37
	35 Chloroform	83	5.724	5.724	(0.867)	1441907	500.000	491.73
	36 Tetrahydrofuran	42	5.676	5.676	(0.860)	270616	500.000	505.99
	37 1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	1084735	500.000	511.60
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	1173894	500.000	527.97
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	972528	500.000	527.73
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	1050813	500.000	484.18
	41 Benzene	78	6.303	6.303	(0.955)	3419599	500.000	491.00
	42 Trichloroethene	130	6.966	6.966	(1.056)	950868	500.000	495.38
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	876347	500.000	502.27
	44 1,4-Dioxane	88	7.309	7.309	(1.108)	393840	25000.0	27357
	45 Dibromomethane	93	7.274	7.274	(1.102)	432358	500.000	486.60
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	963530	500.000	534.96
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	810988	1000.00	1235.0
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	1186008	500.000	535.39
	49 4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	1628664	1000.00	1139.1
	50 Toluene	91	8.149	8.149	(0.873)	3610620	500.000	516.31
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	1009101	500.000	549.06
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	922275	500.000	633.30
	53 1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	614927	500.000	492.93
	54 1,3-Dichloropropane	76	8.634	8.634	(0.925)	1066912	500.000	510.48
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	738978	500.000	500.53
	56 2-Hexanone	43	8.717	8.717	(0.934)	1105371	1000.00	1122.2
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	732609	500.000	562.60
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	623710	500.000	517.83
	59 Chlorobenzene	112	9.356	9.356	(1.003)	2344155	500.000	487.68
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	799795	500.000	524.63
	61 Ethylbenzene	106	9.451	9.451	(1.013)	1323176	500.000	534.08
	62 m + p-Xylene	106	9.557	9.557	(1.024)	3175551	1000.00	1059.5
	64 Xylene-o	106	9.889	9.889	(1.060)	1491345	500.000	528.07
	65 Styrene	104	9.901	9.901	(1.061)	2499222	500.000	556.73
	66 Bromoform	173	10.054	10.054	(1.077)	456635	500.000	579.20
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	4111761	500.000	542.50
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	801725	500.000	516.90
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	267390	500.000	555.65
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	227481	500.000	506.09
	71 Bromobenzene	156	10.457	10.457	(0.925)	949762	500.000	510.17
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	1132241	500.000	523.09
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	941850	500.000	534.85
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	3256470	500.000	543.20
	75 4-Chlorotoluene	126	10.717	10.717	(0.948)	956975	500.000	514.68
	76 tert-Butylbenzene	119	10.977	10.977	(0.971)	3038792	500.000	547.42
	77 1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	3311631	500.000	541.18
	78 sec-Butylbenzene	105	11.155	11.155	(0.986)	4409020	500.000	552.29

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.285	11.285	(0.998)	3591760	500.000	529.37
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	1769967	500.000	500.76
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	1766918	500.000	471.21
82	n-Butylbenzene	91	11.616	11.616	(1.027)	3155420	500.000	535.98
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	1620780	500.000	489.76
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	150998	500.000	564.12
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	1200894	500.000	560.76
87	Naphthalene	128	13.178	13.178	(1.165)	2772993	500.000	562.62
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	735292	500.000	535.62
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	1109186	500.000	525.80
98	Cyclohexane	56	5.960	5.960	(0.903)	2043763	500.000	540.26
143	Methyl Acetate	43	3.392	3.392	(0.514)	1507678	1000.00	962.76
144	Methylcyclohexane	83	7.144	7.144	(1.082)	1779716	500.000	550.25
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	1338420	500.000	530.02

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

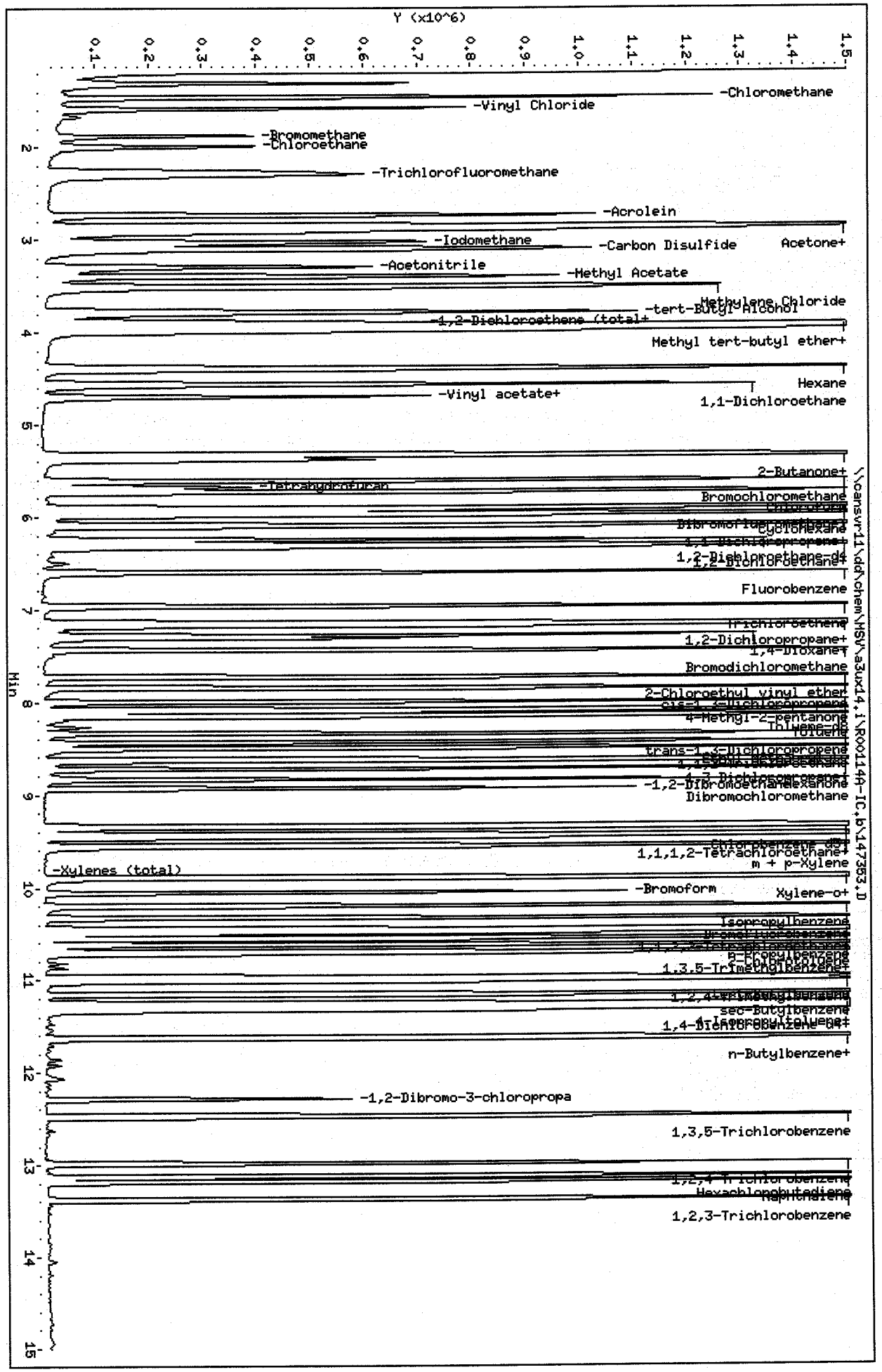
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147353.D
Lab Smp Id: 500NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,7

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1611295	12.93
2 Chlorobenzene-d5	1019841	509921	2039682	1183987	16.10
3 1,4-Dichlorobenze	550598	275299	1101196	632285	14.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Date : 14-JAN-2010 11:07
Client ID:
Sample Info: 500NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Lab Smp Id: 250NG-IC
Inj Date : 14-JAN-2010 11:29
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:53 Cal File: 147363.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1619446	250.000	
*	2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1224767	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	643485	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	413884	250.000	231.98
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	420968	250.000	230.13
$	6 Toluene-d8	98	8.090	8.090	(0.867)	1674621	250.000	252.22
$	7 Bromofluorobenzene	95	10.326	10.326	(0.913)	619481	250.000	259.63
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	364014	250.000	222.24
	9 Chloromethane	50	1.452	1.452	(0.220)	541644	250.000	228.74
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	425071	250.000	237.99
	12 Chloroethane	64	1.996	1.996	(0.303)	227426	250.000	215.92
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	419397	250.000	243.82
	15 Acrolein	56	2.730	2.730	(0.414)	439435	2500.00	2159.0
	16 Acetone	43	2.931	2.931	(0.444)	288152	500.000	422.56
	17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	370674	250.000	239.57
	18 Freon-113	151	2.884	2.884	(0.437)	310232	250.000	249.66
	19 Iodomethane	142	3.026	3.026	(0.459)	638457	250.000	242.10
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	1111139	250.000	250.72
	21 Methylene Chloride	84	3.499	3.499	(0.530)	434370	250.000	209.22
	22 Acetonitrile	41	3.286	3.286	(0.498)	508675	2500.00	2367.8
	23 Acrylonitrile	53	3.889	3.889	(0.589)	318167	500.000	499.18
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	1081213	250.000	268.96

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	430225	250.000	239.44
26	Hexane	86	4.386	4.386	(0.665)	103001	250.000	248.41
27	Vinyl acetate	43	4.694	4.694	(0.711)	589112	250.000	284.19
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	51446	250.000	278.53(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	786557	250.000	244.64
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	827918	5000.00	5651.8
30	2-Butanone	43	5.380	5.380	(0.815)	416209	500.000	501.54
M 31	1,2-Dichloroethene (total)	96				886685	500.000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	456460	250.000	247.94
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	326656	250.000	259.67
34	Bromochloromethane	128	5.605	5.605	(0.849)	217808	250.000	243.41
35	Chloroform	83	5.723	5.723	(0.867)	722890	250.000	245.28
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	133091	250.000	247.60
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	552049	250.000	259.06
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	581303	250.000	260.13
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	481856	250.000	260.16
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	546796	250.000	250.68
41	Benzene	78	6.303	6.303	(0.955)	1715431	250.000	245.07
42	Trichloroethene	130	6.966	6.966	(1.056)	478559	250.000	248.06
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	454374	250.000	259.11
44	1,4-Dioxane	88	7.309	7.309	(1.108)	211131	12500.0	14592
45	Dibromomethane	93	7.274	7.274	(1.102)	230786	250.000	258.43
46	Bromodichloromethane	83	7.439	7.439	(1.127)	477171	250.000	263.60
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	422388	500.000	639.99
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	606890	250.000	272.58
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	839579	500.000	567.65
50	Toluene	91	8.137	8.137	(0.872)	1877729	250.000	259.57
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.893)	526568	250.000	276.97
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	473697	250.000	314.44
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	336495	250.000	260.76
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	576278	250.000	266.55
55	Tetrachloroethene	164	8.623	8.623	(0.924)	378117	250.000	247.58
56	2-Hexanone	43	8.717	8.717	(0.934)	605081	500.000	593.81
57	Dibromochloromethane	129	8.836	8.836	(0.947)	376520	250.000	279.52
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	330577	250.000	265.32
59	Chlorobenzene	112	9.356	9.356	(1.003)	1235592	250.000	248.50
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	411090	250.000	260.68
61	Ethylbenzene	106	9.451	9.451	(1.013)	689482	250.000	269.03
62	m + p-Xylene	106	9.557	9.557	(1.024)	1672769	500.000	539.51
64	Xylene-o	106	9.889	9.889	(1.060)	789267	250.000	270.17
65	Styrene	104	9.900	9.900	(1.061)	1291118	250.000	278.03
66	Bromoform	173	10.054	10.054	(1.077)	232356	250.000	284.91
67	Isopropylbenzene	105	10.196	10.196	(1.093)	2058444	250.000	262.54
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	427354	250.000	270.74
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	138420	250.000	282.64
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	122385	250.000	267.54
71	Bromobenzene	156	10.457	10.457	(0.925)	497687	250.000	262.68
72	n-Propylbenzene	120	10.551	10.551	(0.933)	581642	250.000	264.04
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	486572	250.000	271.50
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1651064	250.000	270.62
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	506966	250.000	267.91
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	1539666	250.000	272.54
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1675434	250.000	269.03
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	2163556	250.000	266.30

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1782706	250.000	258.17
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	899764	250.000	250.13
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	913730	250.000	239.44
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1551747	250.000	258.99
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	824397	250.000	244.78
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	72772	250.000	267.14
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	582982	250.000	267.49
87	Naphthalene	128	13.178	13.178	(1.165)	1361478	250.000	271.43
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	351114	250.000	251.31
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	564311	250.000	262.85
98	Cyclohexane	56	5.960	5.960	(0.903)	999718	250.000	262.94
143	Methyl Acetate	43	3.392	3.392	(0.514)	767682	500.000	487.75
144	Methylcyclohexane	83	7.143	7.143	(1.082)	860368	250.000	264.67
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	675916	250.000	263.01

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

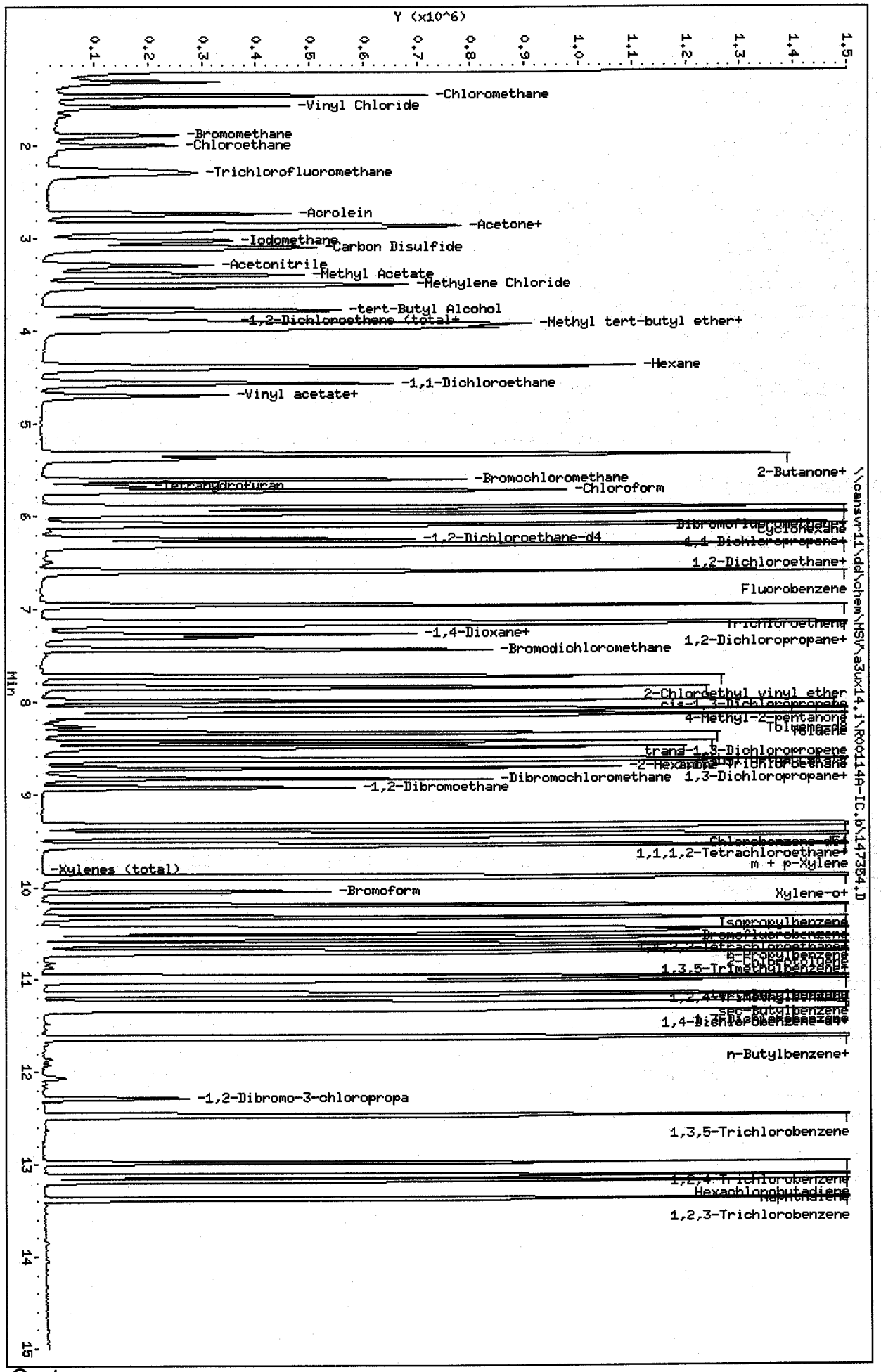
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147354.D
Lab Smp Id: 250NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1619446	0.00
2 Chlorobenzene-d5	1224767	612384	2449534	1224767	0.00
3 1,4-Dichlorobenze	643485	321743	1286970	643485	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R001140-IC.b\147354.D
Date : 14-JAN-2010 11:29
Client ID:
Sample Info: 250NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

\\cansvr11\dd\chem\MSV\a3ux14.i\R001140-IC.b\147354.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Lab Smp Id: 100NG-IC
Inj Date : 14-JAN-2010 11:51
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 100NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	6.599	6.599	(1.000)	1524542	250.000	
* 2	Chlorobenzene-d5	117	9.333	9.333	(1.000)	1117293	250.000	
* 3	1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	622493	250.000	
$ 4	Dibromofluoromethane	113	5.901	5.901	(0.894)	159829	100.000	95.159
$ 5	1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	170851	100.000	99.214
$ 6	Toluene-d8	98	8.090	8.090	(0.867)	591596	100.000	97.671
$ 7	Bromofluorobenzene	95	10.327	10.327	(0.913)	222771	100.000	96.515
8	Dichlorodifluoromethane	85	1.310	1.310	(0.199)	157552	100.000	102.18
9	Chloromethane	50	1.452	1.452	(0.220)	216823	100.000	97.264
10	Vinyl Chloride	62	1.570	1.570	(0.238)	171915	100.000	102.24
12	Chloroethane	64	1.996	1.996	(0.303)	92672	100.000	93.458
13	Trichlorofluoromethane	101	2.280	2.280	(0.346)	168340	100.000	103.96
15	Acrolein	56	2.730	2.730	(0.414)	212537	1000.00	1109.2
16	Acetone	43	2.931	2.931	(0.444)	130272	200.000	202.93
17	1,1-Dichloroethene	96	2.860	2.860	(0.433)	146545	100.000	100.61
18	Freon-113	151	2.895	2.895	(0.439)	121696	100.000	104.03
19	Iodomethane	142	3.026	3.026	(0.459)	243565	100.000	98.109
20	Carbon Disulfide	76	3.097	3.097	(0.469)	413393	100.000	99.087
21	Methylene Chloride	84	3.511	3.511	(0.532)	190625	100.000	97.534
22	Acetonitrile	41	3.298	3.298	(0.500)	208855	1000.00	1032.7
23	Acrylonitrile	53	3.889	3.889	(0.589)	131345	200.000	218.90
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	399967	100.000	105.69

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	167162	100.000	98.825
26	Hexane	86	4.398	4.398	(0.666)	38663	100.000	99.048
27	Vinyl acetate	43	4.694	4.694	(0.711)	204087	100.000	104.58
154	Vinyl Acetate**2nd**	86	4.706	4.706	(0.713)	17224	100.000	99.058(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	304389	100.000	100.57
29	tert-Butyl Alcohol	59	3.783	3.783	(0.573)	294803	2000.00	2137.8
30	2-Butanone	43	5.380	5.380	(0.815)	157415	200.000	201.50
M 31	1,2-Dichloroethene (total)	96				344674	200.000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	177512	100.000	102.42
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	119677	100.000	101.06
34	Bromochloromethane	128	5.605	5.605	(0.849)	82903	100.000	98.414
35	Chloroform	83	5.724	5.724	(0.867)	277362	100.000	99.971
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	49016	100.000	96.865
37	1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	200408	100.000	99.898
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	218336	100.000	103.79
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	177493	100.000	101.79
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	209132	100.000	101.84
41	Benzene	78	6.303	6.303	(0.955)	641858	100.000	97.405
42	Trichloroethene	130	6.966	6.966	(1.056)	178035	100.000	98.029
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	165683	100.000	100.36
44	1,4-Dioxane	88	7.309	7.309	(1.108)	77848	5000.00	5715.2
45	Dibromomethane	93	7.274	7.274	(1.102)	82647	100.000	98.308
46	Bromodichloromethane	83	7.439	7.439	(1.127)	173236	100.000	101.66
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	134569	200.000	216.59
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	204616	100.000	97.624
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	295572	200.000	219.06
50	Toluene	91	8.149	8.149	(0.873)	657053	100.000	99.566
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	164610	100.000	94.913
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	145998	100.000	106.24
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	119280	100.000	101.32
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	199819	100.000	101.31
55	Tetrachloroethene	164	8.623	8.623	(0.924)	137025	100.000	98.352
56	2-Hexanone	43	8.717	8.717	(0.934)	201802	200.000	217.09
57	Dibromochloromethane	129	8.836	8.836	(0.947)	126112	100.000	102.63
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	117844	100.000	103.68
59	Chlorobenzene	112	9.356	9.356	(1.003)	444051	100.000	97.896
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	147909	100.000	102.81
61	Ethylbenzene	106	9.451	9.451	(1.013)	240099	100.000	102.70
62	m + p-Xylene	106	9.557	9.557	(1.024)	593956	200.000	209.99
64	Xylene-o	106	9.889	9.889	(1.060)	280569	100.000	105.28
65	Styrene	104	9.901	9.901	(1.061)	444614	100.000	104.95
66	Bromoform	173	10.054	10.054	(1.077)	75491	100.000	101.47
67	Isopropylbenzene	105	10.196	10.196	(1.093)	748072	100.000	104.59
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	154708	100.000	101.32
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	48194	100.000	101.72
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	43723	100.000	98.804
71	Bromobenzene	156	10.457	10.457	(0.925)	183855	100.000	100.31
72	n-Propylbenzene	120	10.551	10.551	(0.933)	212438	100.000	99.688
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	186417	100.000	107.53
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	623528	100.000	105.64
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	190557	100.000	104.10
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	562162	100.000	102.86
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	628333	100.000	104.30
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	801317	100.000	101.95

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	657645	100.000	98.452
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	345050	100.000	99.157
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	356765	100.000	96.641
82	n-Butylbenzene	91	11.616	11.616	(1.027)	557485	100.000	96.184
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	324984	100.000	99.748
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	26408	100.000	100.21
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	213187	100.000	101.11
87	Naphthalene	128	13.178	13.178	(1.165)	501916	100.000	103.44
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	136835	100.000	101.24
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	220567	100.000	106.20
98	Cyclohexane	56	5.972	5.972	(0.905)	374397	100.000	104.60
143	Methyl Acetate	43	3.392	3.392	(0.514)	302568	200.000	204.20
144	Methylcyclohexane	83	7.143	7.143	(1.082)	316390	100.000	103.39
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	248493	100.000	99.953

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

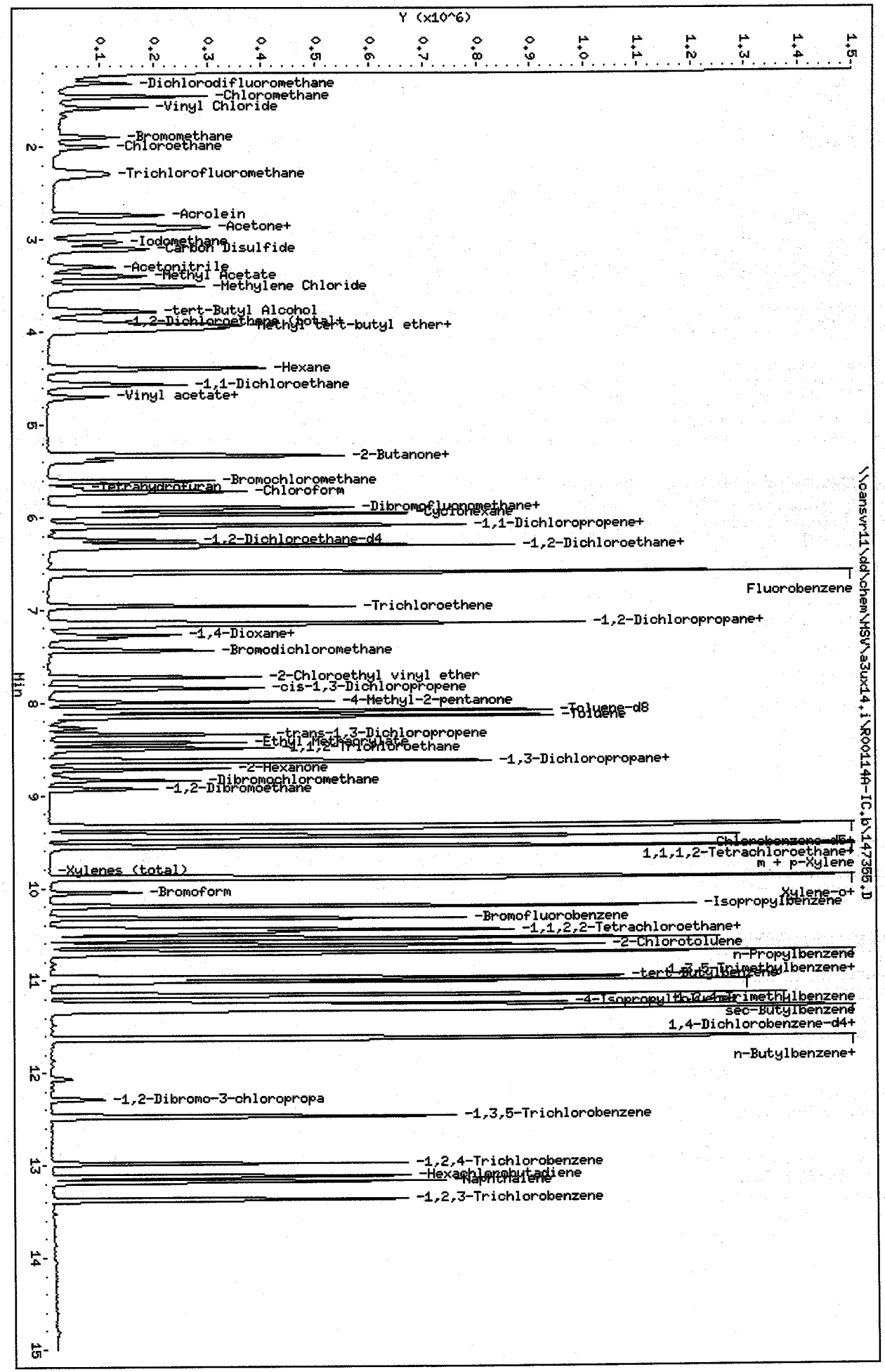
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147355.D
Lab Smp Id: 100NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1524542	-5.86
2 Chlorobenzene-d5	1224767	612384	2449534	1117293	-8.78
3 1,4-Dichlorobenze	643485	321743	1286970	622493	-3.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Date : 14-JAN-2010 11:51
Client ID:
Sample Info: 100NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Lab Smp Id: 50NG-IC
Inj Date : 14-JAN-2010 12:14
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:39 Cal File: 147365.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1463571	250.000	
*	2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1080998	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	616871	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	76759	50.0000	47.604
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	82563	50.0000	49.942
$	6 Toluene-d8	98	8.090	8.090	(0.867)	281363	50.0000	48.012
$	7 Bromofluorobenzene	95	10.326	10.326	(0.913)	110713	50.0000	48.403
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	77815	50.0000	52.567
	9 Chloromethane	50	1.452	1.452	(0.220)	109690	50.0000	51.255
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	82970	50.0000	51.400
	12 Chloroethane	64	1.996	1.996	(0.303)	48552	50.0000	51.004
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	83485	50.0000	53.704
	15 Acrolein	56	2.730	2.730	(0.414)	89612	500.000	487.16
	16 Acetone	43	2.931	2.931	(0.444)	72936	100.000	118.35
	17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	70966	50.0000	50.750
	18 Freon-113	151	2.884	2.884	(0.437)	59930	50.0000	53.365
	19 Iodomethane	142	3.026	3.026	(0.459)	122149	50.0000	51.252
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	204194	50.0000	50.982
	21 Methylene Chloride	84	3.511	3.511	(0.532)	109609	50.0000	58.418
	22 Acetonitrile	41	3.298	3.298	(0.500)	100062	500.000	515.39
	23 Acrylonitrile	53	3.889	3.889	(0.589)	58829	100.000	102.13
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	186667	50.0000	51.381

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	82296	50.0000	50.680
26	Hexane	86	4.386	4.386	(0.665)	18166	50.0000	48.477
27	Vinyl acetate	43	4.694	4.694	(0.711)	88798	50.0000	47.398
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	7596	50.0000	45.506 (A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	147729	50.0000	50.841
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	131129	1000.00	990.49
30	2-Butanone	43	5.380	5.380	(0.815)	72329	100.000	96.440
M 31	1,2-Dichloroethene (total)	96				168654	100.000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	86358	50.0000	51.903
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	58168	50.0000	51.164
34	Bromochloromethane	128	5.605	5.605	(0.849)	40704	50.0000	50.333
35	Chloroform	83	5.723	5.723	(0.867)	136764	50.0000	51.348
36	Tetrahydrofuran	42	5.688	5.688	(0.862)	23581	50.0000	48.542
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	102584	50.0000	53.266
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	105034	50.0000	52.008
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	89315	50.0000	53.357
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	96980	50.0000	49.196
41	Benzene	78	6.303	6.303	(0.955)	320643	50.0000	50.686
42	Trichloroethene	130	6.966	6.966	(1.056)	89775	50.0000	51.491
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	79696	50.0000	50.287
44	1,4-Dioxane	88	7.309	7.309	(1.108)	34138	2500.00	2610.6
45	Dibromomethane	93	7.274	7.274	(1.102)	40622	50.0000	50.332
46	Bromodichloromethane	83	7.439	7.439	(1.127)	82425	50.0000	50.382
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	55693	100.000	93.372
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	92612	50.0000	46.027
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	125166	100.000	95.881
50	Toluene	91	8.137	8.137	(0.872)	316964	50.0000	49.643
51	trans-1,3-Dichloropropene	75	8.338	8.338	(0.893)	74151	50.0000	44.190
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	60861	50.0000	45.773
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	54001	50.0000	47.412
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	94748	50.0000	49.652
55	Tetrachloroethene	164	8.622	8.622	(0.924)	68765	50.0000	51.014
56	2-Hexanone	43	8.717	8.717	(0.934)	82817	100.000	92.084
57	Dibromochloromethane	129	8.835	8.835	(0.947)	59231	50.0000	49.820
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	53071	50.0000	48.260
59	Chlorobenzene	112	9.356	9.356	(1.003)	217526	50.0000	49.566
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	71037	50.0000	51.037
61	Ethylbenzene	106	9.451	9.451	(1.013)	115843	50.0000	51.213
62	m + p-Xylene	106	9.557	9.557	(1.024)	288517	100.000	105.43
64	Xylene-o	106	9.889	9.889	(1.060)	134194	50.0000	52.044
65	Styrene	104	9.900	9.900	(1.061)	199347	50.0000	48.637
66	Bromoform	173	10.054	10.054	(1.077)	34675	50.0000	48.172
67	Isopropylbenzene	105	10.196	10.196	(1.093)	350644	50.0000	50.671
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	74500	50.0000	49.233
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	22765	50.0000	48.489
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	21471	50.0000	48.962
71	Bromobenzene	156	10.457	10.457	(0.925)	88463	50.0000	48.706
72	n-Propylbenzene	120	10.551	10.551	(0.933)	98133	50.0000	46.469
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	87448	50.0000	50.900
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	290336	50.0000	49.640
75	4-Chlorotoluene	126	10.705	10.705	(0.947)	93314	50.0000	51.440
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	263096	50.0000	48.580
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	298774	50.0000	50.045
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	382601	50.0000	49.124

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	307172	50.0000	46.404
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	168793	50.0000	48.948
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	176132	50.0000	48.146
82	n-Butylbenzene	91	11.616	11.616	(1.027)	265064	50.0000	46.149
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	159501	50.0000	49.402
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	12339	50.0000	47.249
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	102810	50.0000	49.207
87	Naphthalene	128	13.178	13.178	(1.165)	218045	50.0000	45.346
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	63481	50.0000	47.398
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	100686	50.0000	48.922
98	Cyclohexane	56	5.960	5.960	(0.903)	172564	50.0000	50.221
143	Methyl Acetate	43	3.392	3.392	(0.514)	139260	100.000	97.903
144	Methylcyclohexane	83	7.143	7.143	(1.082)	148556	50.0000	50.566
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	118897	50.0000	48.260

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147356.D
Lab Smp Id: 50NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,4

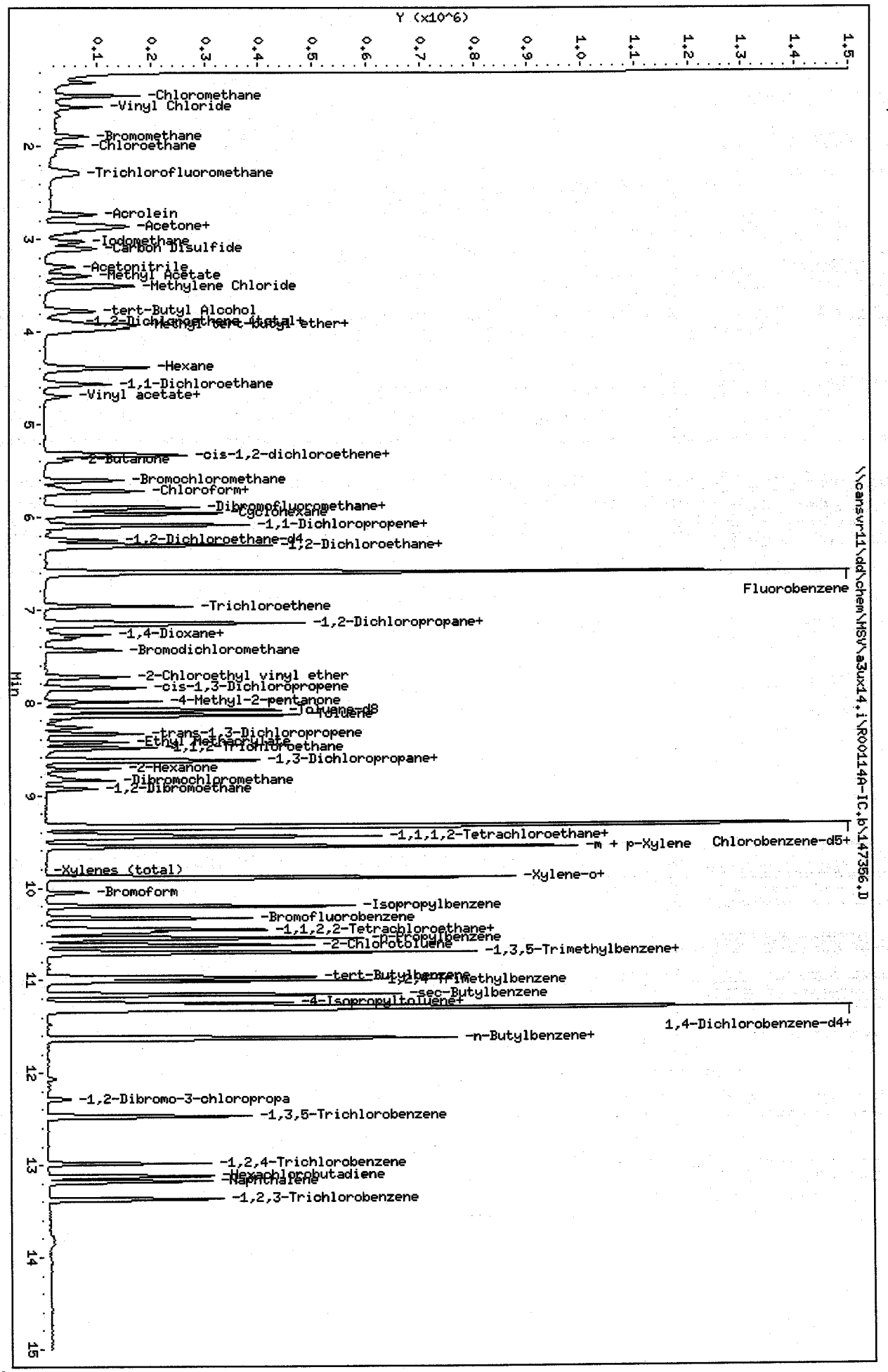
Calibration Date: 14-JAN-2010
Calibration Time: 11:29

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1463571	-9.63
2 Chlorobenzene-d5	1224767	612384	2449534	1080998	-11.74
3 1,4-Dichlorobenze	643485	321743	1286970	616871	-4.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\HSV\a3ux14,i\R00114A-IC,b\147356,D
Date : 14-JAN-2010 12:14
Client ID:
Sample Info: 50NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14,i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Lab Smp Id: 25NG-IC
Inj Date : 14-JAN-2010 12:36
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 25NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:03 Cal File: 147366.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1458359	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1056066	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	618283	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	40283	25.0000	25.072
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	44575	25.0000	27.060
$	6 Toluene-d8	98	8.090	8.090	(0.867)	139454	25.0000	24.358
$	7 Bromofluorobenzene	95	10.327	10.327	(0.913)	57323	25.0000	25.004
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	42747	25.0000	28.981
	9 Chloromethane	50	1.452	1.452	(0.220)	56339	25.0000	26.420
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	43093	25.0000	26.792
	12 Chloroethane	64	1.996	1.996	(0.303)	25001	25.0000	26.357
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	40226	25.0000	25.969
	15 Acrolein	56	2.742	2.742	(0.416)	47730	250.000	260.40
	16 Acetone	43	2.943	2.943	(0.446)	45722	50.0000	74.454
	17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	36277	25.0000	26.036
	18 Freon-113	151	2.896	2.896	(0.439)	28657	25.0000	25.609
	19 Iodomethane	142	3.026	3.026	(0.459)	60346	25.0000	25.411
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	99492	25.0000	24.930
	21 Methylene Chloride	84	3.511	3.511	(0.532)	66631	25.0000	35.639
	22 Acetonitrile	41	3.298	3.298	(0.500)	51022	250.000	263.74
	23 Acrylonitrile	53	3.890	3.890	(0.589)	27794	50.0000	48.424
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	85837	25.0000	23.711

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.937	3.937	(0.597)	41047	25.0000	25.368
26	Hexane	86	4.398	4.398	(0.666)	9256	25.0000	24.788
27	Vinyl acetate	43	4.694	4.694	(0.711)	40408	25.0000	21.646
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	3247	25.0000	19.521(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	75301	25.0000	26.008
29	tert-Butyl Alcohol	59	3.783	3.783	(0.573)	60293	500.000	457.05
30	2-Butanone	43	5.392	5.392	(0.817)	33392	50.0000	44.683
M 31	1,2-Dichloroethene (total)	96				82841	50.0000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	41794	25.0000	25.209
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	26605	25.0000	23.485
34	Bromochloromethane	128	5.605	5.605	(0.849)	20156	25.0000	25.013
35	Chloroform	83	5.724	5.724	(0.867)	66642	25.0000	25.110
36	Tetrahydrofuran	42	5.688	5.688	(0.862)	12410	25.0000	25.637
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	46501	25.0000	24.232
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	51061	25.0000	25.373
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	40999	25.0000	24.580
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	51559	25.0000	26.248
41	Benzene	78	6.303	6.303	(0.955)	158995	25.0000	25.223
42	Trichloroethene	130	6.966	6.966	(1.056)	42633	25.0000	24.540
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	39343	25.0000	24.914
44	1,4-Dioxane	88	7.321	7.321	(1.109)	15184	1250.00	1165.3
45	Dibromomethane	93	7.274	7.274	(1.102)	20490	25.0000	25.479
46	Bromodichloromethane	83	7.439	7.439	(1.127)	38025	25.0000	23.326
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	23645	50.0000	39.784
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	40230	25.0000	20.065
49	4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	53715	50.0000	42.119
50	Toluene	91	8.149	8.149	(0.873)	153825	25.0000	24.661
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	33225	25.0000	20.268
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	27032	25.0000	20.811
53	1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	28621	25.0000	25.722
54	1,3-Dichloropropane	76	8.635	8.635	(0.925)	46308	25.0000	24.840
55	Tetrachloroethene	164	8.623	8.623	(0.924)	34411	25.0000	26.131
56	2-Hexanone	43	8.717	8.717	(0.934)	36831	50.0000	41.919
57	Dibromochloromethane	129	8.836	8.836	(0.947)	25619	25.0000	22.057
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	25227	25.0000	23.482
59	Chlorobenzene	112	9.356	9.356	(1.003)	105867	25.0000	24.693
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	32575	25.0000	23.956
61	Ethylbenzene	106	9.451	9.451	(1.013)	52596	25.0000	23.801
62	m + p-Xylene	106	9.558	9.558	(1.024)	131100	50.0000	49.038
64	Xylene-o	106	9.889	9.889	(1.060)	59806	25.0000	23.742
65	Styrene	104	9.901	9.901	(1.061)	87994	25.0000	21.976
66	Bromoform	173	10.054	10.054	(1.077)	14863	25.0000	21.136
67	Isopropylbenzene	105	10.196	10.196	(1.093)	158090	25.0000	23.384
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	35362	25.0000	23.316
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	9788	25.0000	20.801
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	10615	25.0000	24.151
71	Bromobenzene	156	10.457	10.457	(0.925)	43431	25.0000	23.858
72	n-Propylbenzene	120	10.551	10.551	(0.933)	44997	25.0000	21.259
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	41522	25.0000	24.113
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	130679	25.0000	22.292
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	45182	25.0000	24.850
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	121534	25.0000	22.390
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	137019	25.0000	22.898
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	181887	25.0000	23.300

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	142199	25.0000	21.433
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	84649	25.0000	24.491
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	91975	25.0000	25.084
82	n-Butylbenzene	91	11.616	11.616	(1.027)	123143	25.0000	21.391
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	81988	25.0000	25.336
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	5733	25.0000	21.903
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	47317	25.0000	22.595
87	Naphthalene	128	13.178	13.178	(1.165)	90083	25.0000	18.691
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	31747	25.0000	23.650
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	46925	25.0000	22.748
98	Cyclohexane	56	5.972	5.972	(0.905)	77499	25.0000	22.635
143	Methyl Acetate	43	3.404	3.404	(0.516)	68922	50.0000	48.627
144	Methylcyclohexane	83	7.144	7.144	(1.082)	68076	25.0000	23.255
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	59916	25.0000	24.264

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

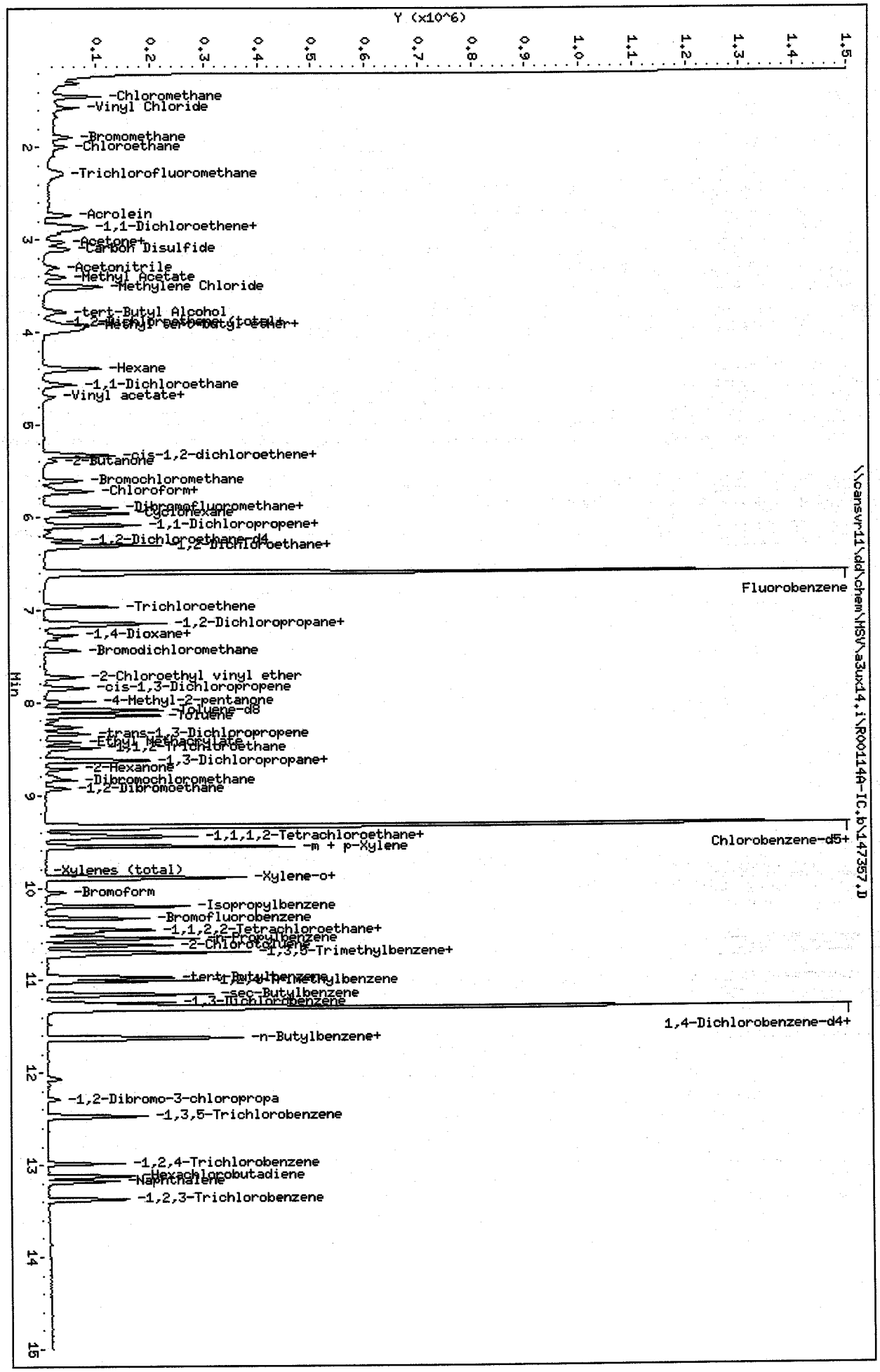
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147357.D
Lab Smp Id: 25NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1458359	-9.95
2 Chlorobenzene-d5	1224767	612384	2449534	1056066	-13.77
3 1,4-Dichlorobenze	643485	321743	1286970	618283	-3.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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Date : 14-JAN-2010 12:36
Client ID:
Sample Info: 25NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
\\cansvr11\dd\chem\MSV\a3ux14.i\R001140-IC.b\147357.D
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Lab Smp Id: 10NG-IC
Inj Date : 14-JAN-2010 12:59
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 10NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:27 Cal File: 147367.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1356303	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1001973	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	569171	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	16252	10.0000	10.876
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	18464	10.0000	12.052
$	6 Toluene-d8	98	8.090	8.090	(0.867)	51325	10.0000	9.449
$	7 Bromofluorobenzene	95	10.327	10.327	(0.913)	22887	10.0000	10.845
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	12281	10.0000	8.952
	9 Chloromethane	50	1.452	1.452	(0.220)	19798	10.0000	9.983
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	15372	10.0000	10.276
	12 Chloroethane	64	1.996	1.996	(0.303)	9754	10.0000	11.057
	13 Trichlorofluoromethane	101	2.280	2.280	(0.346)	13307	10.0000	9.237
	15 Acrolein	56	2.730	2.730	(0.414)	19778	100.000	116.02
	16 Acetone	43	2.931	2.931	(0.444)	27842	20.0000	48.750
	17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	12381	10.0000	9.554
	18 Freon-113	151	2.884	2.884	(0.437)	9942	10.0000	9.553
	19 Iodomethane	142	3.026	3.026	(0.459)	22706	10.0000	10.280
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	36467	10.0000	9.825
	21 Methylene Chloride	84	3.511	3.511	(0.532)	43300	10.0000	24.903
	22 Acetonitrile	41	3.298	3.298	(0.500)	21714	100.000	120.69
	23 Acrylonitrile	53	3.890	3.890	(0.589)	10994	20.0000	20.595
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	30383	10.0000	9.024

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	15115	10.0000	10.044
	26 Hexane	86	4.398	4.398	(0.666)	3211	10.0000	9.246
	27 Vinyl acetate	43	4.694	4.694	(0.711)	14418	10.0000	8.305
	154 Vinyl Acetate**2nd**	86	4.706	4.706	(0.713)	1148	10.0000	7.421(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	27135	10.0000	10.077
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	21779	200.000	177.52
	30 2-Butanone	43	5.392	5.392	(0.817)	14454	20.0000	20.796
M	31 1,2-Dichloroethene (total)	96				30217	20.0000	
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	15102	10.0000	9.794
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	9587	10.0000	9.100
	34 Bromochloromethane	128	5.605	5.605	(0.849)	7484	10.0000	9.986
	35 Chloroform	83	5.724	5.724	(0.867)	24256	10.0000	9.827
	36 Tetrahydrofuran	42	5.688	5.688	(0.862)	5059	10.0000	11.238
	37 1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	16829	10.0000	9.429
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	16552	10.0000	8.844
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	15047	10.0000	9.700
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	17776	10.0000	9.730
	41 Benzene	78	6.303	6.303	(0.955)	60909	10.0000	10.390
	42 Trichloroethene	130	6.966	6.966	(1.056)	16673	10.0000	10.319
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	14391	10.0000	9.799
	44 1,4-Dioxane	88	7.321	7.321	(1.109)	4795	500.000	395.69
	45 Dibromomethane	93	7.274	7.274	(1.102)	6849	10.0000	9.157
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	14054	10.0000	9.270
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	7878	20.0000	14.252
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	13722	10.0000	7.359
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	19225	20.0000	15.888
	50 Toluene	91	8.138	8.138	(0.872)	55483	10.0000	9.375
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	11733	10.0000	7.544
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	8671	10.0000	7.036
	53 1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	9921	10.0000	9.397
	54 1,3-Dichloropropane	76	8.635	8.635	(0.925)	16803	10.0000	9.500
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	12388	10.0000	9.915
	56 2-Hexanone	43	8.717	8.717	(0.934)	13235	20.0000	15.877
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	9391	10.0000	8.522
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	9000	10.0000	8.830
	59 Chlorobenzene	112	9.356	9.356	(1.003)	41241	10.0000	10.138
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	12574	10.0000	9.746
	61 Ethylbenzene	106	9.451	9.451	(1.013)	19725	10.0000	9.408
	62 m + p-Xylene	106	9.557	9.557	(1.024)	45348	20.0000	17.878
	64 Xylene-o	106	9.889	9.889	(1.060)	21615	10.0000	9.044
	65 Styrene	104	9.901	9.901	(1.061)	28792	10.0000	7.579
	66 Bromoform	173	10.054	10.054	(1.077)	5798	10.0000	8.690
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	49371	10.0000	7.697
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	14099	10.0000	10.098
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	3853	10.0000	8.895
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	4170	10.0000	10.306
	71 Bromobenzene	156	10.457	10.457	(0.925)	16305	10.0000	9.730
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	13321	10.0000	6.837
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	13684	10.0000	8.632
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	39148	10.0000	7.254
	75 4-Chlorotoluene	126	10.705	10.705	(0.947)	14971	10.0000	8.944
	76 tert-Butylbenzene	119	10.977	10.977	(0.971)	37681	10.0000	7.541
	77 1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	39477	10.0000	7.167
	78 sec-Butylbenzene	105	11.155	11.155	(0.986)	51764	10.0000	7.203

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	39794	10.0000	6.515
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	31768	10.0000	9.984
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	33681	10.0000	9.978
82	n-Butylbenzene	91	11.616	11.616	(1.027)	36528	10.0000	6.893
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	30480	10.0000	10.232
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	2080	10.0000	8.632
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	17257	10.0000	8.952
87	Naphthalene	128	13.178	13.178	(1.165)	30253	10.0000	6.819
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	11874	10.0000	9.609
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	17720	10.0000	9.331
98	Cyclohexane	56	5.960	5.960	(0.903)	25574	10.0000	8.031
143	Methyl Acetate	43	3.404	3.404	(0.516)	28015	20.0000	21.253
144	Methylcyclohexane	83	7.144	7.144	(1.082)	20465	10.0000	7.517
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	21462	10.0000	9.442

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147358.D
Lab Smp Id: 10NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1356303	-16.25
2 Chlorobenzene-d5	1224767	612384	2449534	1001973	-18.19
3 1,4-Dichlorobenze	643485	321743	1286970	569171	-11.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\a3ux14.i\R00114A-IC.b\147358.D
Date : 14-JAN-2010 12:59
Client ID:
Sample Info: 10NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-1,4-Dioxane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-Trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\HSV\a3ux14.i\R00114A-IC.b\147358.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Lab Smp Id: 5NG-IC
Inj Date : 14-JAN-2010 13:21
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 5NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:50 Cal File: 147368.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1372183	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1002461	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	555022	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	9676	5.00000	6.400
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	11539	5.00000	7.445
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	32138	5.00000	5.914
$ 7 Bromofluorobenzene	95	10.326	10.326	(0.913)	15167	5.00000	7.370
8 Dichlorodifluoromethane	85	1.310	1.310	(0.199)	6727	5.00000	4.847
9 Chloromethane	50	1.452	1.452	(0.220)	11735	5.00000	5.849
10 Vinyl Chloride	62	1.570	1.570	(0.238)	7286	5.00000	4.814
12 Chloroethane	64	1.996	1.996	(0.303)	5400	5.00000	6.050
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	6325	5.00000	4.340
15 Acrolein	56	2.742	2.742	(0.415)	9606	50.0000	55.699
16 Acetone	43	2.943	2.943	(0.446)	24140	10.0000	41.779
17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	7010	5.00000	5.347
18 Freon-113	151	2.895	2.895	(0.439)	4388	5.00000	4.168
19 Iodomethane	142	3.037	3.037	(0.460)	11304	5.00000	5.059
20 Carbon Disulfide	76	3.108	3.108	(0.471)	16799	5.00000	4.474
21 Methylene Chloride	84	3.511	3.511	(0.532)	35816	5.00000	20.360
22 Acetonitrile	41	3.298	3.298	(0.500)	12466	50.0000	68.485
23 Acrylonitrile	53	3.901	3.901	(0.591)	5419	10.0000	10.034
24 Methyl tert-butyl ether	73	3.984	3.984	(0.604)	14574	5.00000	4.279

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.937	3.937	(0.597)	8315	5.00000	5.462
26	Hexane	86	4.398	4.398	(0.666)	1871	5.00000	5.325
27	Vinyl acetate	43	4.694	4.694	(0.711)	7645	5.00000	4.352
154	Vinyl Acetate**2nd**	86	4.706	4.706	(0.713)	680	5.00000	4.345(aA)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	13067	5.00000	4.796
29	tert-Butyl Alcohol	59	3.783	3.783	(0.573)	11995	100.000	96.639
30	2-Butanone	43	5.392	5.392	(0.817)	8724	10.0000	12.407
M 31	1,2-Dichloroethene (total)	96				15763	10.0000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	7448	5.00000	4.774
34	Bromochloromethane	128	5.617	5.617	(0.851)	4258	5.00000	5.616
35	Chloroform	83	5.723	5.723	(0.867)	12911	5.00000	5.170
36	Tetrahydrofuran	42	5.688	5.688	(0.862)	3656	5.00000	8.027
37	1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	8120	5.00000	4.497
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	7874	5.00000	4.158
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	6150	5.00000	3.919
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	9644	5.00000	5.218
41	Benzene	78	6.303	6.303	(0.955)	29730	5.00000	5.013
42	Trichloroethene	130	6.966	6.966	(1.056)	7968	5.00000	4.874
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	6926	5.00000	4.661
44	1,4-Dioxane	88	7.321	7.321	(1.109)	2587	250.000	211.01
45	Dibromomethane	93	7.274	7.274	(1.102)	4148	5.00000	5.482
46	Bromodichloromethane	83	7.439	7.439	(1.127)	6789	5.00000	4.426
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	6079	5.00000	3.222
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	9457	10.0000	7.812
50	Toluene	91	8.149	8.149	(0.873)	27677	5.00000	4.674
51	trans-1,3-Dichloropropene	75	8.338	8.338	(0.893)	6272	5.00000	4.031
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	4328	5.00000	3.510
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	5544	5.00000	5.249
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	8265	5.00000	4.670
55	Tetrachloroethene	164	8.622	8.622	(0.924)	5917	5.00000	4.734
56	2-Hexanone	43	8.717	8.717	(0.934)	5958	10.0000	7.144
57	Dibromochloromethane	129	8.835	8.835	(0.947)	4605	5.00000	4.177
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	5369	5.00000	5.265
59	Chlorobenzene	112	9.356	9.356	(1.003)	21534	5.00000	5.291
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	5640	5.00000	4.370
61	Ethylbenzene	106	9.451	9.451	(1.013)	8713	5.00000	4.154
62	m + p-Xylene	106	9.557	9.557	(1.024)	20492	10.0000	8.075
64	Xylene-o	106	9.889	9.889	(1.060)	10317	5.00000	4.315
65	Styrene	104	9.900	9.900	(1.061)	13216	5.00000	3.477
66	Bromoform	173	10.054	10.054	(1.077)	2786	5.00000	4.174
67	Isopropylbenzene	105	10.196	10.196	(1.093)	22834	5.00000	3.558
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	6378	5.00000	4.685
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	1956	5.00000	4.630
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	1906	5.00000	4.831
71	Bromobenzene	156	10.457	10.457	(0.925)	7878	5.00000	4.821
72	n-Propylbenzene	120	10.551	10.551	(0.933)	6182	5.00000	3.254
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	6188	5.00000	4.003
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	16183	5.00000	3.075
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	7022	5.00000	4.302
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	15330	5.00000	3.146
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	17135	5.00000	3.190
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	21791	5.00000	3.110
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	17593	5.00000	2.954
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	15514	5.00000	5.000

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	19341	5.00000	5.876
82	n-Butylbenzene	91	11.616	11.616	(1.027)	17576	5.00000	3.401
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	14785	5.00000	5.090
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	742	5.00000	3.158
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	8165	5.00000	4.343
87	Naphthalene	128	13.178	13.178	(1.165)	15306	5.00000	3.538
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	5734	5.00000	4.758
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	8792	5.00000	4.748
98	Cyclohexane	56	5.972	5.972	(0.905)	11321	5.00000	3.514
143	Methyl Acetate	43	3.404	3.404	(0.516)	15423	10.0000	11.565
144	Methylcyclohexane	83	7.143	7.143	(1.082)	9099	5.00000	3.303
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	9915	5.00000	4.473

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

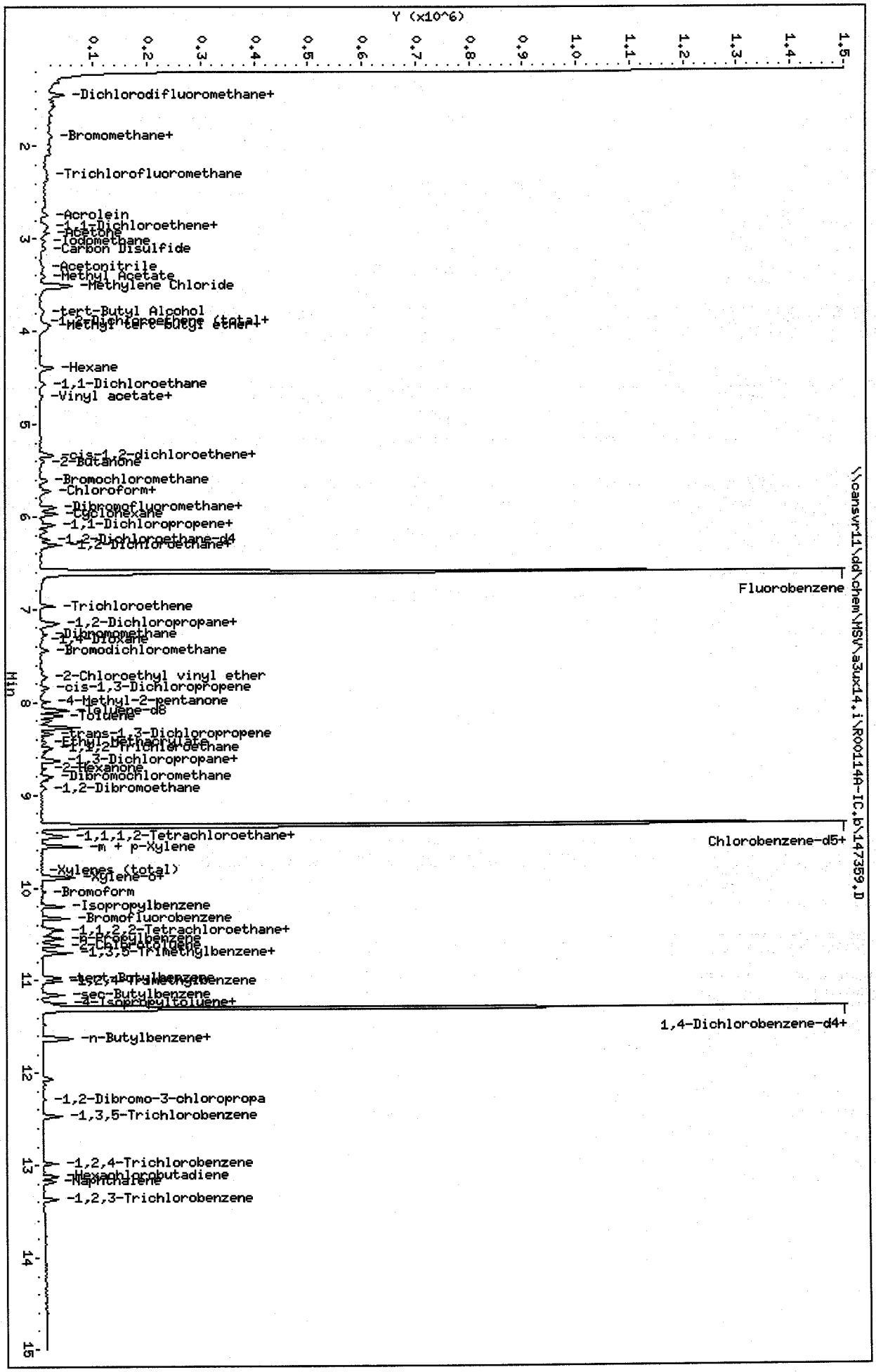
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147359.D
Lab Smp Id: 5NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,1

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1372183	-15.27
2 Chlorobenzene-d5	1224767	612384	2449534	1002461	-18.15
3 1,4-Dichlorobenze	643485	321743	1286970	555022	-13.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Date : 14-JAN-2010 13:21
Client ID:
Sample Info: 5NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total)+
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-1,4-Dioxane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-o-Xylene
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Lab Smp Id: CHECKDUP/ICV
Inj Date : 14-JAN-2010 18:00
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP/ICV
Misc Info : R00114A-IC,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:27 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 21 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1426776	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.332	(1.000)	1018266	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	585686	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	372221	236.798	47.360
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	373759	231.917	46.383
$	6 Toluene-d8	98	8.090	8.090	(0.867)	1388680	251.564	50.313
$	7 Bromofluorobenzene	95	10.326	10.326	(0.913)	525978	242.199	48.440
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	303955	210.630	42.126
	9 Chloromethane	50	1.452	1.452	(0.220)	469869	225.220	45.044
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	348368	221.382	44.276
	11 Bromomethane	94	1.890	1.878	(0.286)	160709	209.172	41.834
	12 Chloroethane	64	1.996	1.996	(0.303)	199943	215.457	43.091
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	421357	278.039	55.608
	15 Acrolein	56	2.730	2.730	(0.414)	145532	811.565	162.31
	16 Acetone	43	2.943	2.931	(0.446)	130741	244.205	48.841
	17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	369801	271.279	54.256
	18 Freon-113	151	2.895	2.884	(0.439)	320123	292.408	58.482
	19 Iodomethane	142	3.026	3.026	(0.459)	601965	259.089	51.818
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	1026347	262.863	52.573
	21 Methylene Chloride	84	3.511	3.499	(0.532)	382573	248.057	49.611
	22 Acetonitrile	41	3.298	3.286	(0.500)	125368	662.387	132.48
	23 Acrylonitrile	53	3.889	3.889	(0.589)	405544	722.193	144.44

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	920036	259.773	51.955
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	401619	253.705	50.741
26	Hexane	86	4.398	4.386	(0.666)	97485	266.852	53.370
27	Vinyl acetate	43	4.694	4.694	(0.711)	633704	346.979	69.396(R)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	50554	310.665	62.133(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	727312	256.761	51.352
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	611660	4739.35	947.87
30	2-Butanone	43	5.380	5.380	(0.815)	161404	220.759	44.152
M 31	1,2-Dichloroethene (total)	96				805843	502.917	100.58
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	404224	249.212	49.842
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	248165	223.913	44.782
34	Bromochloromethane	128	5.605	5.605	(0.849)	192355	243.992	48.798
35	Chloroform	83	5.723	5.723	(0.867)	646879	249.134	49.827
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	112132	236.778	47.356
37	1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	483545	257.551	51.510
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	514823	261.491	52.298
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	474144	290.561	58.112
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	480819	250.199	50.040
41	Benzene	78	6.303	6.303	(0.955)	1510067	244.862	48.972
42	Trichloroethene	130	6.966	6.966	(1.056)	417600	245.694	49.139
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	390891	253.007	50.601
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.274	7.274	(1.102)	197203	250.644	50.129
46	Bromodichloromethane	83	7.439	7.439	(1.127)	417213	261.597	52.319
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	155460	217.992	43.598
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	465316	237.220	47.444
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	311833	253.590	50.718
50	Toluene	91	8.137	8.137	(0.872)	1509885	251.050	50.210
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.893)	385201	243.704	48.741
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	258070	240.539	48.108
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	447358	248.879	49.776
55	Tetrachloroethene	164	8.623	8.623	(0.924)	307711	242.343	48.468
56	2-Hexanone	43	8.717	8.717	(0.934)	200110	236.210	47.242
57	Dibromochloromethane	129	8.836	8.836	(0.947)	294409	262.886	52.577
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	255921	247.056	49.411
59	Chlorobenzene	112	9.356	9.356	(1.003)	966289	233.746	46.749
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	348289	265.646	53.129
61	Ethylbenzene	106	9.451	9.451	(1.013)	545137	255.847	51.169
62	m + p-Xylene	106	9.557	9.557	(1.024)	1309230	507.896	101.58
M 63	Xylenes (total)	106				1954923	773.740	154.75
64	Xylene-o	106	9.889	9.889	(1.060)	645693	265.844	53.169
65	Styrene	104	9.901	9.900	(1.061)	1005301	260.387	52.077
66	Bromoform	173	10.054	10.054	(1.077)	183512	270.650	54.130
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1729693	265.353	53.070
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	321532	223.799	44.760
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	218142	489.380	97.876
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	103084	247.585	49.517
71	Bromobenzene	156	10.457	10.457	(0.925)	404346	234.479	46.896
72	n-Propylbenzene	120	10.551	10.551	(0.933)	486807	242.795	48.559
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	402822	246.951	49.390
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1405860	253.167	50.633
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	412207	239.331	47.866
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	1328150	258.297	51.659

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1462655	258.042	51.608
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1858277	251.295	50.259
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1561458	248.447	49.689
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	743446	227.070	45.414
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	739280	212.841	42.568
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1337463	245.256	49.051
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	704495	229.821	45.964
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	62926	253.791	50.758
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	454758	229.246	45.849
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	297406	233.880	46.776
87	Naphthalene	128	13.178	13.178	(1.165)	1125485	246.523	49.305
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	454713	232.701	46.540
146	2-Methylnaphthalene	142	14.042	14.054	(1.242)	1381	12.1413	2.428
89	Ethyl Ether	59	2.600	2.600	(0.394)	274079	229.140	45.828
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.741	(0.719)	326901	258.014	51.603
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.303	6.303	(0.955)	539744	12259.6	2451.9(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	125449	387.234	77.447(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.960	5.960	(0.903)	797720	238.147	47.629
143	Methyl Acetate	43	3.392	3.392	(0.514)	287870	207.599	41.520
144	Methylcyclohexane	83	7.143	7.143	(1.082)	720375	251.528	50.306
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1464811	264.487	52.897(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Lab Smp Id: CHECKDUP/ICV
Inj Date : 14-JAN-2010 18:00
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP/ICV
Misc Info : R00114A-IC,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:27 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 21 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147371.D
Lab Smp Id: CHECKDUP/ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,,2807,3

Calibration Date: 14-JAN-2010
Calibration Time: 11:29

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1426776	-11.90
2 Chlorobenzene-d5	1224767	612384	2449534	1018266	-16.86
3 1,4-Dichlorobenze	643485	321743	1286970	585686	-8.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

RECOVERY REPORT

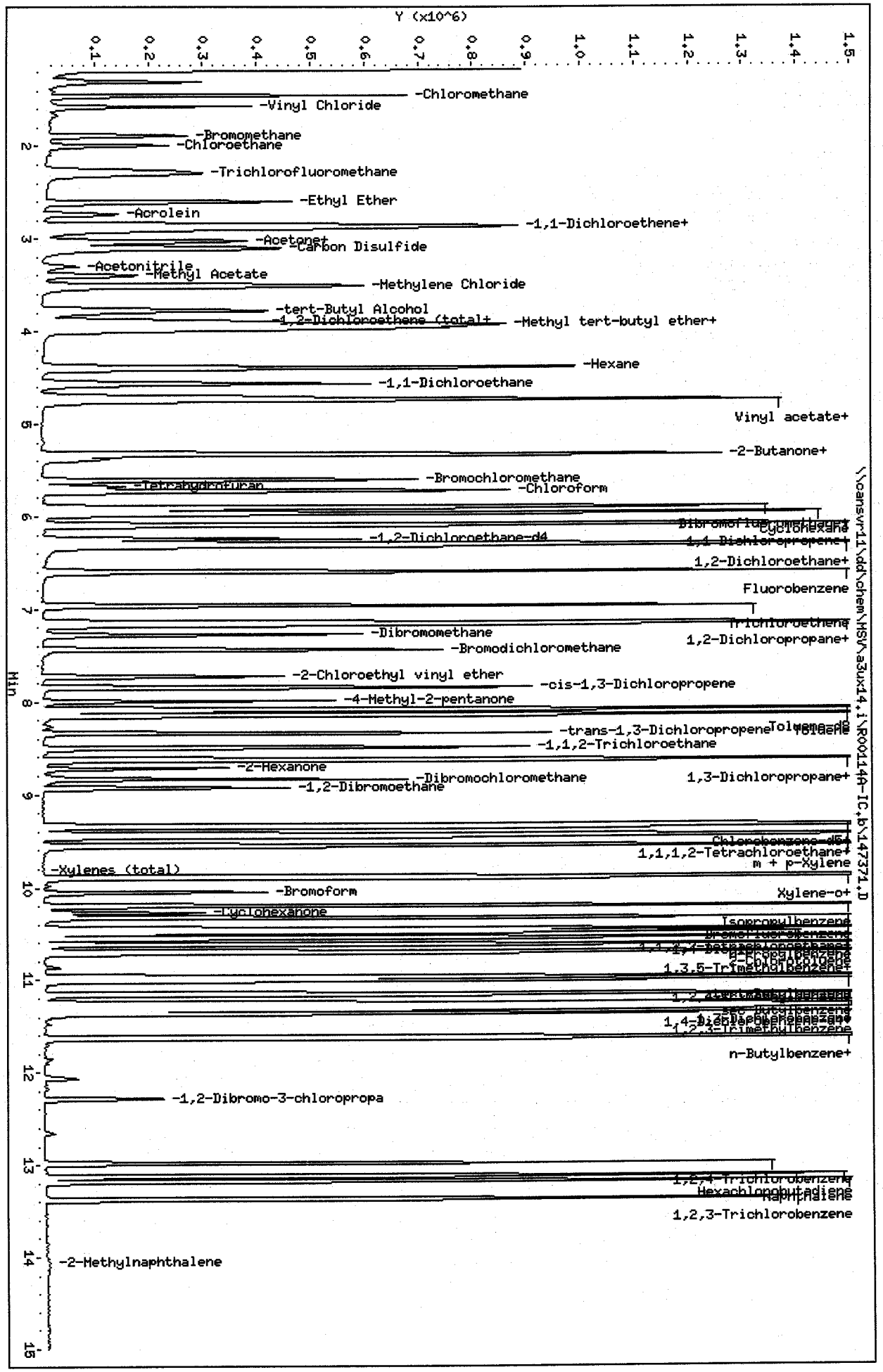
Client Name:
Client SDG: SDGa00468
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: CHECKDUP/ICV
Level: LOW
Operator: 2807
Data Type: MS DATA
SampleType: METHSPIKE
SpikeList File: DODICV.spk
Quant Type: ISTD
Sublist File: 4-8260+IX.sub
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,,2807,3

SPIKE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
17	1,1-Dichloroethene	50.000	54.256	108.51	55-142
42	Trichloroethene	50.000	49.139	98.28	70-131
41	Benzene	50.000	48.972	97.94	75-129
50	Toluene	50.000	50.210	100.42	71-130
59	Chlorobenzene	50.000	46.749	93.50	75-127
60	1,1,1,2-Tetrachlor	50.000	53.129	106.26	75-125
37	1,1,1-Trichloroeth	50.000	51.510	103.02	75-125
68	1,1,2,2-Tetrachlor	50.000	44.760	89.52	75-125
53	1,1,2-Trichloroeth	50.000	48.108	96.22	75-125
28	1,1-Dichloroethane	50.000	51.352	102.70	75-125
38	1,1-Dichloropropen	50.000	52.298	104.60	75-125
88	1,2,3-Trichloroben	50.000	46.540	93.08	75-125
70	1,2,3-Trichloropro	50.000	49.517	99.03	75-125
85	1,2,4-Trichloroben	50.000	45.849	91.70	75-125
77	1,2,4-Trimethylben	50.000	51.608	103.22	75-125
84	1,2-Dibromo-3-chlo	50.000	50.758	101.52	75-125
58	1,2-Dibromoethane	50.000	49.411	98.82	75-125
83	1,2-Dichlorobenzen	50.000	45.964	91.93	75-125
40	1,2-Dichloroethane	50.000	50.040	100.08	75-125
43	1,2-Dichloropropan	50.000	50.601	101.20	75-125
74	1,3,5-Trimethylben	50.000	50.633	101.27	75-125
80	1,3-Dichlorobenzen	50.000	45.414	90.83	75-125
54	1,3-Dichloropropan	50.000	49.776	99.55	75-125
81	1,4-Dichlorobenzen	50.000	42.568	85.14	75-125
33	2,2-Dichloropropan	50.000	44.782	89.57	75-125
30	2-Butanone	50.000	44.152	88.30	75-125
73	2-Chlorotoluene	50.000	49.390	98.78	75-125
56	2-Hexanone	50.000	47.242	94.48	75-125
75	4-Chlorotoluene	50.000	47.866	95.73	75-125
49	4-Methyl-2-pentano	50.000	50.718	101.44	75-125
16	Acetone	50.000	48.841	97.68	75-125
71	Bromobenzene	50.000	46.896	93.79	75-125
34	Bromochloromethane	50.000	48.798	97.60	75-125
46	Bromodichlorometha	50.000	52.319	104.64	75-125
66	Bromoform	50.000	54.130	108.26	75-125
11	Bromomethane	50.000	41.834	83.67	75-125
20	Carbon Disulfide	50.000	52.573	105.15	75-125
39	Carbon Tetrachlori	50.000	58.112	116.22	75-125
57	Dibromochlorometha	50.000	52.577	105.15	75-125
12	Chloroethane	50.000	43.091	86.18	75-125

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

	SPIKE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	35	Chloroform	50.000	49.827	99.65	75-125
	9	Chloromethane	50.000	45.044	90.09	75-125
	32	cis-1,2-dichloroet	50.000	49.842	99.68	75-125
	48	cis-1,3-Dichloropr	50.000	47.444	94.89	75-125
	45	Dibromomethane	50.000	50.129	100.26	75-125
	8	Dichlorodifluorome	50.000	42.126	84.25	75-125
	61	Ethylbenzene	50.000	51.169	102.34	75-125
	86	Hexachlorobutadien	50.000	46.776	93.55	75-125
	67	Isopropylbenzene	50.000	53.070	106.14	75-125
	62	m + p-Xylene	100.00	101.58	101.58	75-125
	21	Methylene Chloride	50.000	49.611	99.22	75-125
	87	Naphthalene	50.000	49.305	98.61	75-125
	82	n-Butylbenzene	50.000	49.051	98.10	75-125
	72	n-Propylbenzene	50.000	48.559	97.12	75-125
	64	Xylene-o	50.000	53.169	106.34	75-125
	79	4-Isopropyltoluene	50.000	49.689	99.38	75-125
	78	sec-Butylbenzene	50.000	50.259	100.52	75-125
	65	Styrene	50.000	52.077	104.15	75-125
	76	tert-Butylbenzene	50.000	51.659	103.32	75-125
	55	Tetrachloroethene	50.000	48.468	96.94	75-125
	25	trans-1,2-Dichloro	50.000	50.741	101.48	75-125
	51	trans-1,3-Dichloro	50.000	48.741	97.48	75-125
	13	Trichlorofluoromet	50.000	55.608	111.22	75-125
	10	Vinyl Chloride	50.000	44.276	88.55	75-125
	27	Vinyl acetate	50.000	69.396	138.79*	75-125
	154	Vinyl Acetate**2nd	50.000	62.133	124.27	75-125
	19	Iodomethane	50.000	51.818	103.64	75-125
	92	Isopropyl Ether	50.000	51.603	103.21	75-125
	24	Methyl tert-butyl	50.000	51.955	103.91	75-125
M	63	Xylenes (total)	150.00	154.75	103.17	75-125
	22	Acetonitrile	150.00	132.48	88.32	75-125
	15	Acrolein	150.00	162.31	108.21	75-125
	23	Acrylonitrile	150.00	144.44	96.29	75-125
	47	2-Chloroethyl viny	50.000	43.598	87.20	75-125
	98	Cyclohexane	50.000	47.629	95.26	75-125
M	31	1,2-Dichloroethene	100.00	100.58	100.58	75-125
	26	Hexane	50.000	53.370	106.74	75-125
	143	Methyl Acetate	50.000	41.520	83.04	75-125
	144	Methylcyclohexane	50.000	50.306	100.61	75-125
	18	Freon-113	50.000	58.482	116.96	75-125
	25	Cyclohexanone	500.00	77.447	15.49*	75-125

	SURROGATE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$	4	Dibromofluorometha	50.000	47.360	94.72	59-138
$	5	1,2-Dichloroethane	50.000	46.383	92.77	61-130
$	6	Toluene-d8	50.000	50.313	100.63	60-143
$	7	Bromofluorobenzene	50.000	48.440	96.88	47-158



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Date : 14-JAN-2010 18:00
Client ID:
Sample Info: CHECKDUP/ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Lab Smp Id: 1000NG-BMIC
Inj Date : 14-JAN-2010 14:30
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 1000NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,8
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 17:14 Cal File: 147369.D
Als bottle: 12 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1469255	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1064692	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	598810	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	668309	1000.00	844.69

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147362.D
Lab Smp Id: 1000NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,8

Calibration Date: 14-JAN-2010
Calibration Time: 11:29

Level: LOW
Sample Type: SOIL

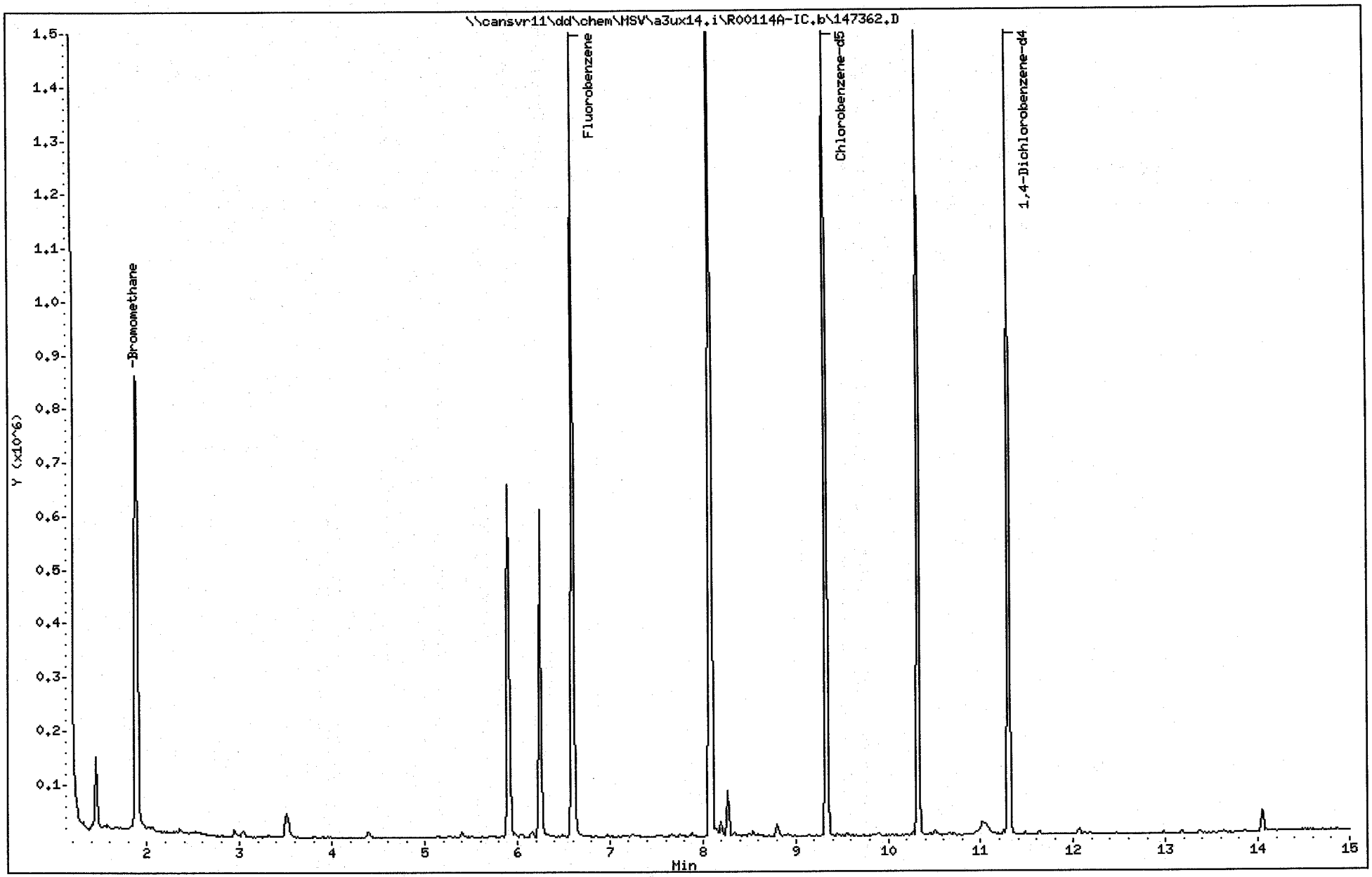
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1469255	-9.27
2 Chlorobenzene-d5	1224767	612384	2449534	1064692	-13.07
3 1,4-Dichlorobenze	643485	321743	1286970	598810	-6.94

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Date : 14-JAN-2010 14:30
Client ID:
Sample Info: 1000NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Lab Smp Id: 500NG-BMIC
Inj Date : 14-JAN-2010 14:53
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 500NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,7
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:30 Cal File: 147362.D
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1506064	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1130843	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	577018	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	363830	500.000	448.62

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147363.D
Lab Smp Id: 500NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,7

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1506064	-7.00
2 Chlorobenzene-d5	1224767	612384	2449534	1130843	-7.67
3 1,4-Dichlorobenze	643485	321743	1286970	577018	-10.33

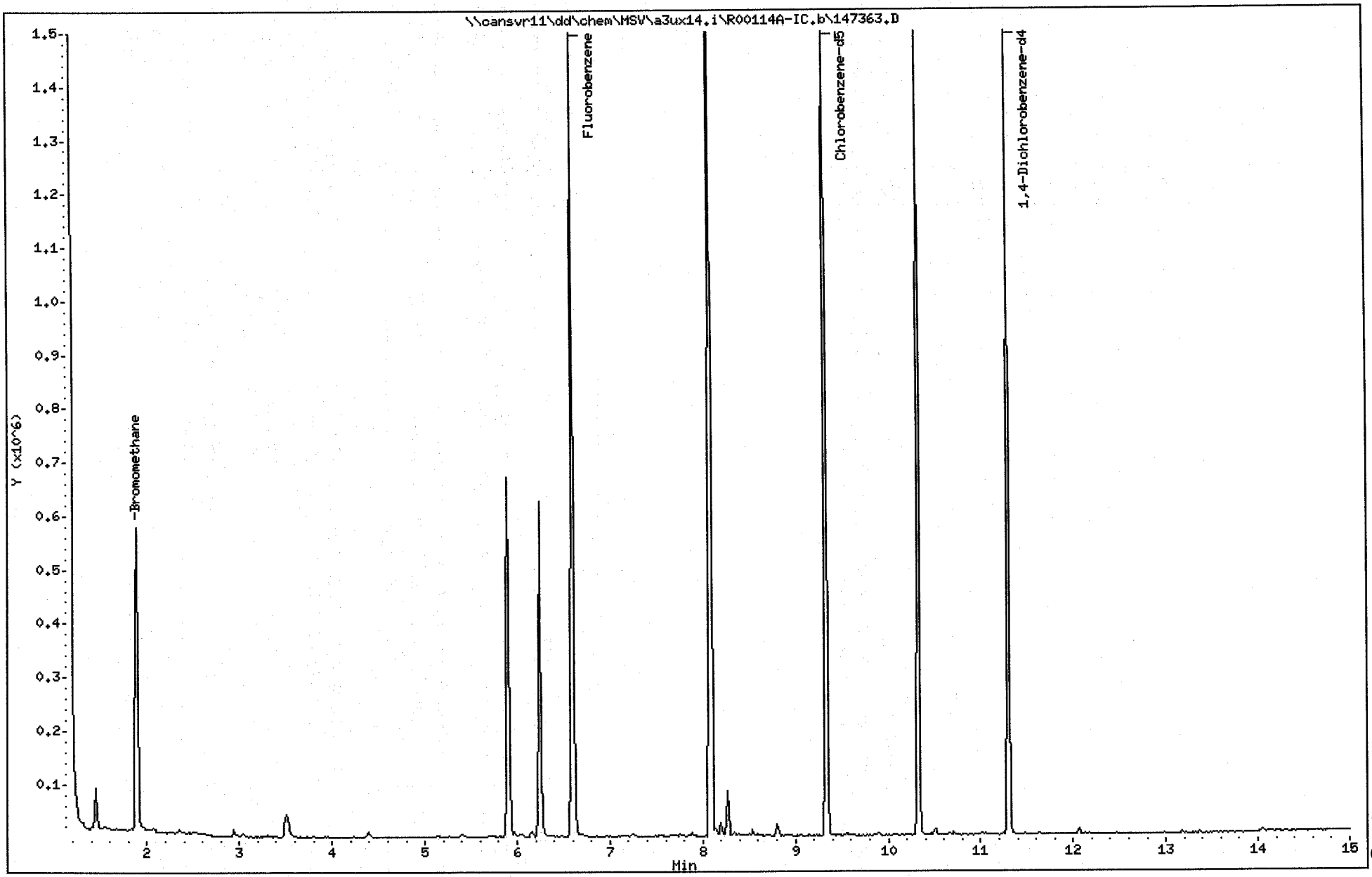
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\oansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Date : 14-JAN-2010 14:53
Client ID:
Sample Info: 500NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Lab Smp Id: 250NG-BMIC
Inj Date : 14-JAN-2010 15:16
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:53 Cal File: 147363.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1426757	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1019841	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	550598	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	178530	250.000	232.37

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147364.D
Lab Smp Id: 250NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1426757	0.00
2 Chlorobenzene-d5	1019841	509921	2039682	1019841	0.00
3 1,4-Dichlorobenze	550598	275299	1101196	550598	0.00

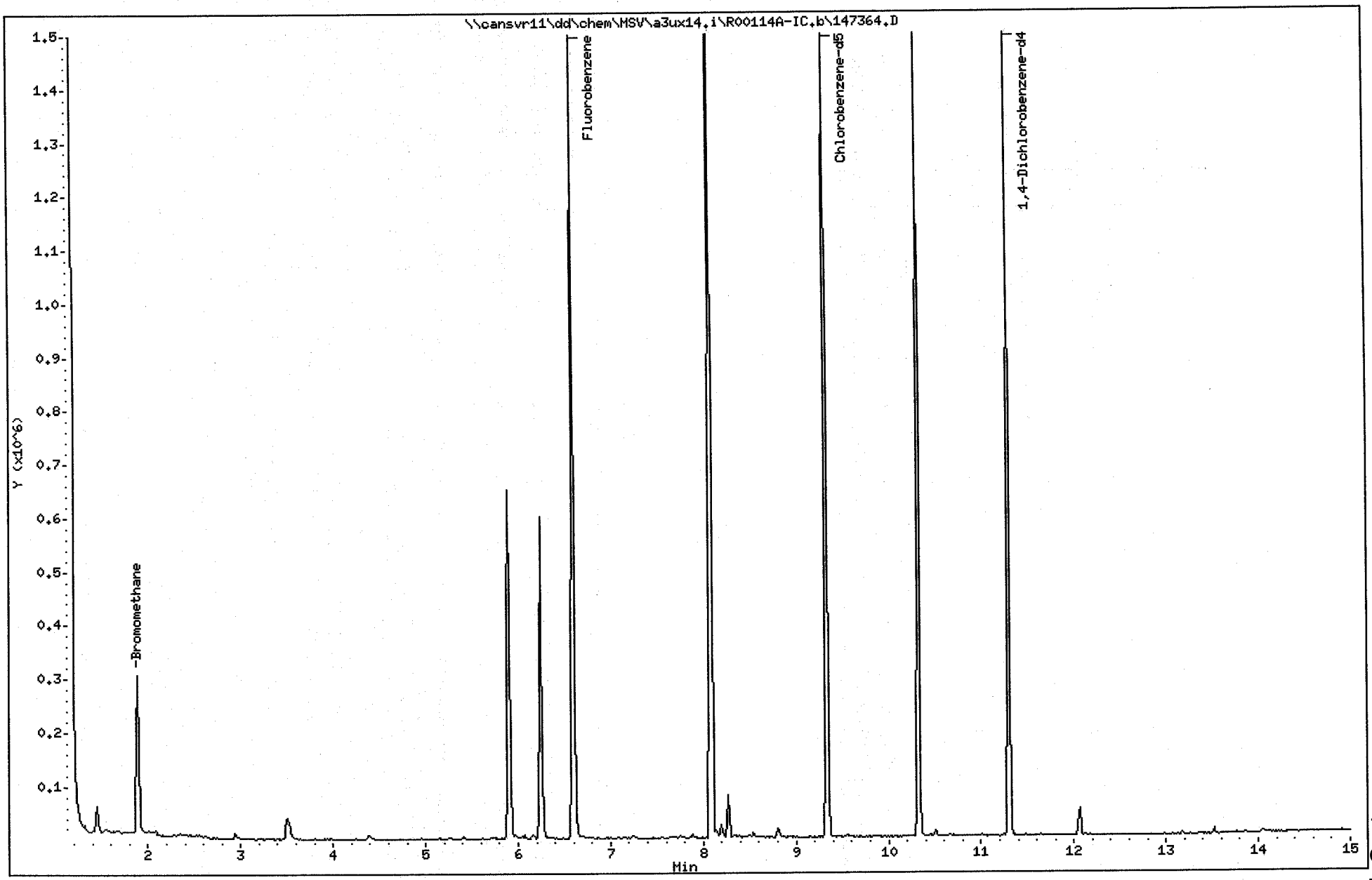
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Date : 14-JAN-2010 15:16
Client ID:
Sample Info: 250NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Lab Smp Id: 100NG-BMIC
Inj Date : 14-JAN-2010 15:39
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 100NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1384300	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1014571	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	545907	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	76468	100.000	102.58

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147365.D
Lab Smp Id: 100NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,5

Calibration Date: 14-JAN-2010
Calibration Time: 15:16

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1384300	-2.98
2 Chlorobenzene-d5	1019841	509921	2039682	1014571	-0.52
3 1,4-Dichlorobenze	550598	275299	1101196	545907	-0.85

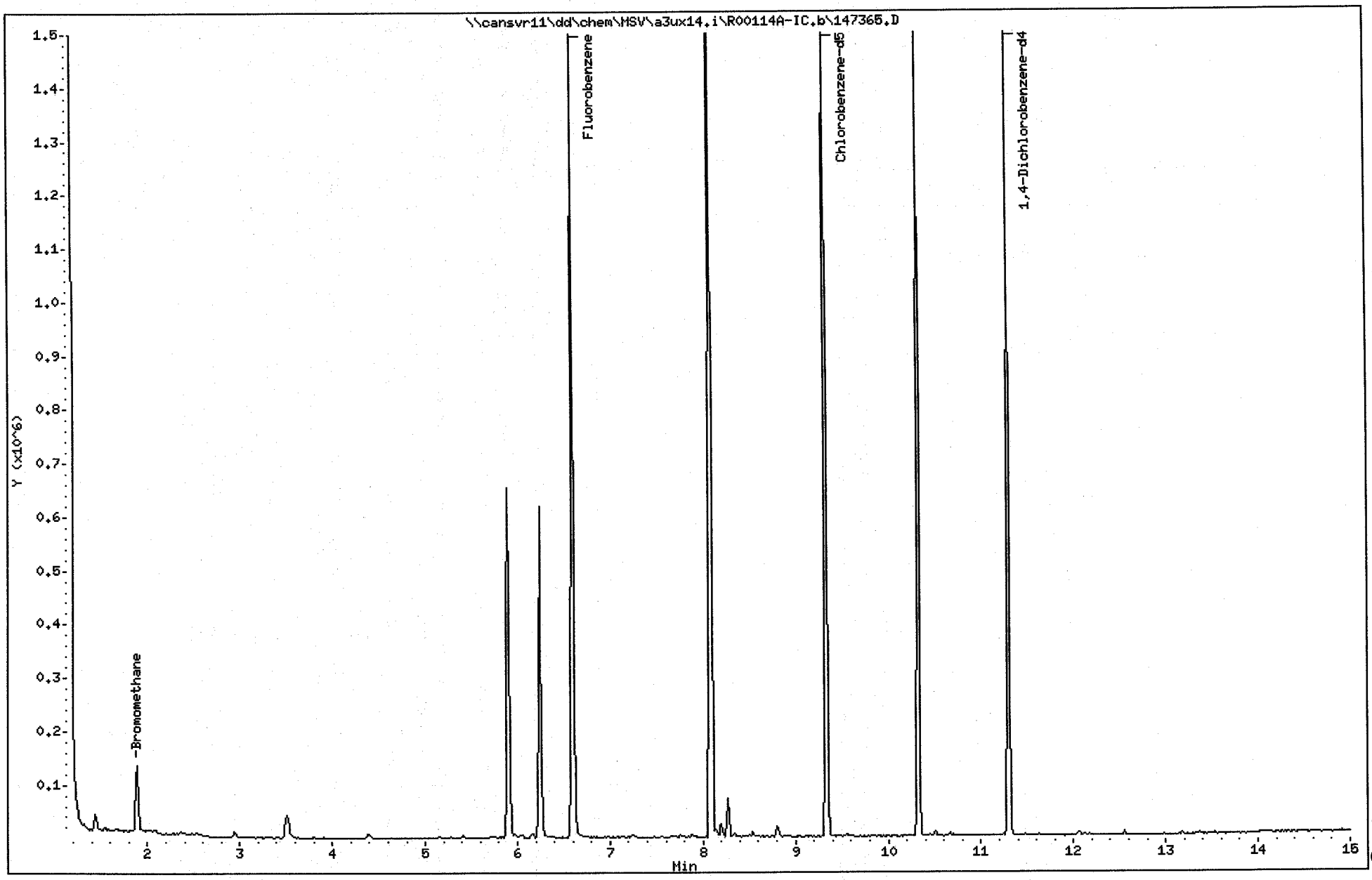
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Date : 14-JAN-2010 15:39
Client ID:
Sample Info: 100NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Lab Smp Id: 50NG-BMIC
Inj Date : 14-JAN-2010 16:03
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:39 Cal File: 147365.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1425981	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1040279	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	547806	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	33596	50.0000	43.751

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147366.D
Lab Smp Id: 50NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,4

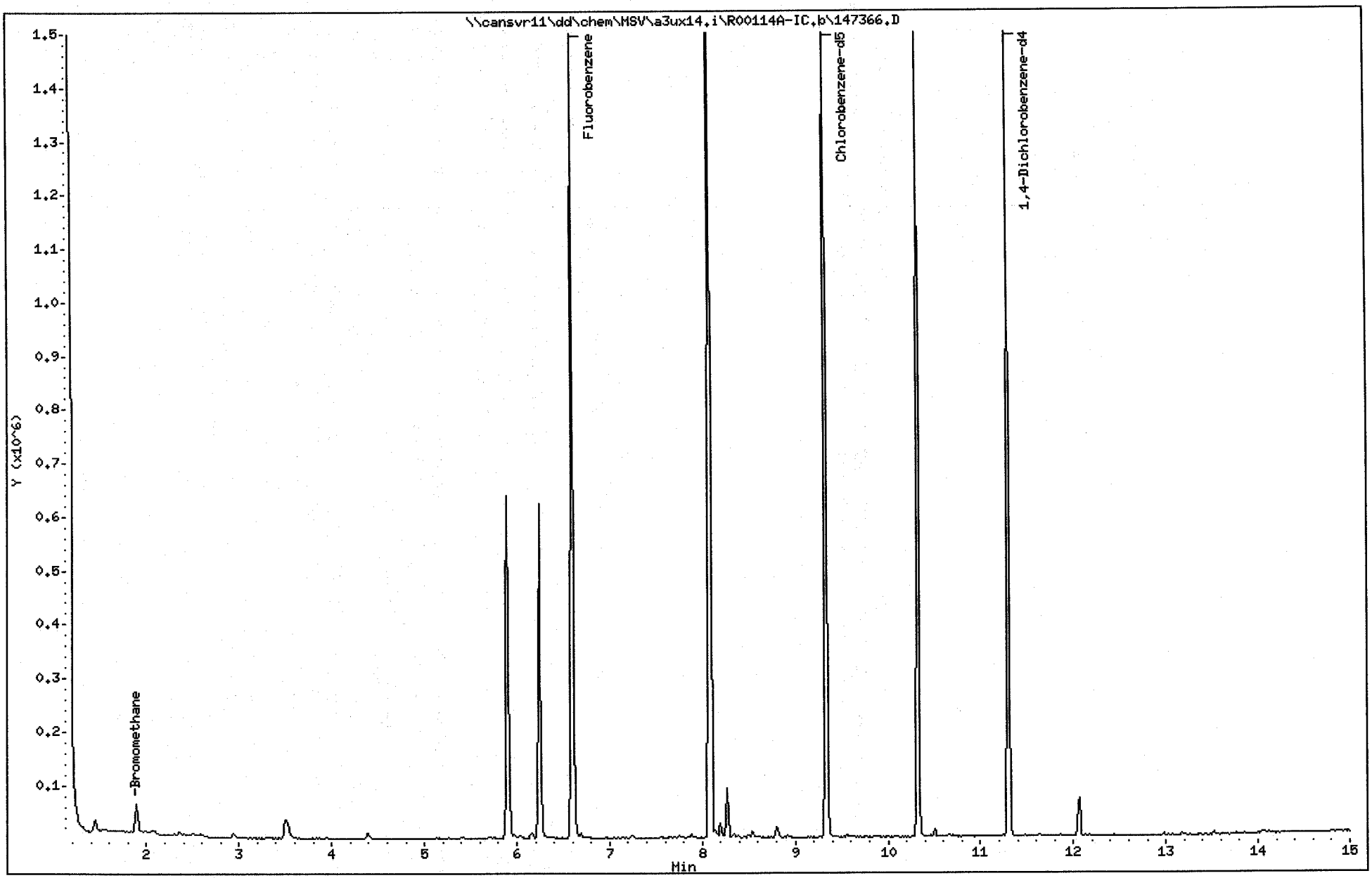
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1425981	-0.05
2 Chlorobenzene-d5	1019841	509921	2039682	1040279	2.00
3 1,4-Dichlorobenze	550598	275299	1101196	547806	-0.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Date : 14-JAN-2010 16:03
Client ID:
Sample Info: 50NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Lab Smp Id: 25NG-BMIC
Inj Date : 14-JAN-2010 16:27
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 25NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:03 Cal File: 147366.D
Als bottle: 17 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1354292	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	975180	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	522521	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	19955	25.0000	27.363

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147367.D
Lab Smp Id: 25NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,3

Calibration Date: 14-JAN-2010
Calibration Time: 15:16

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1354292	-5.08
2 Chlorobenzene-d5	1019841	509921	2039682	975180	-4.38
3 1,4-Dichlorobenze	550598	275299	1101196	522521	-5.10

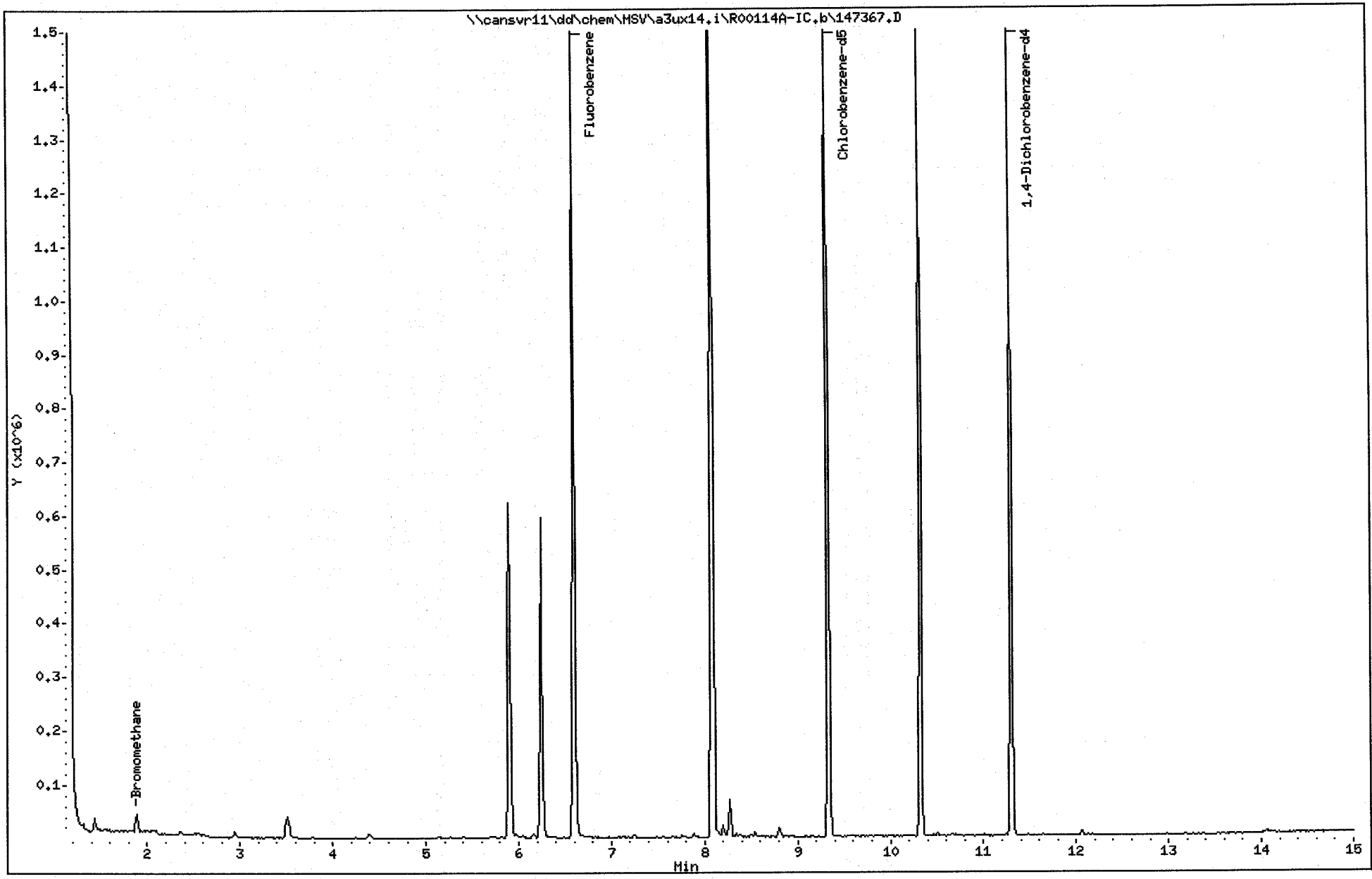
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Date : 14-JAN-2010 16:27
Client ID:
Sample Info: 25NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Lab Smp Id: 10NG-BMIC
Inj Date : 14-JAN-2010 16:50
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 10NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:27 Cal File: 147367.D
Als bottle: 18 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1422782	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1058622	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	544484	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	8389	10.0000	10.949

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147368.D
Lab Smp Id: 10NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1422782	-0.28
2 Chlorobenzene-d5	1019841	509921	2039682	1058622	3.80
3 1,4-Dichlorobenze	550598	275299	1101196	544484	-1.11

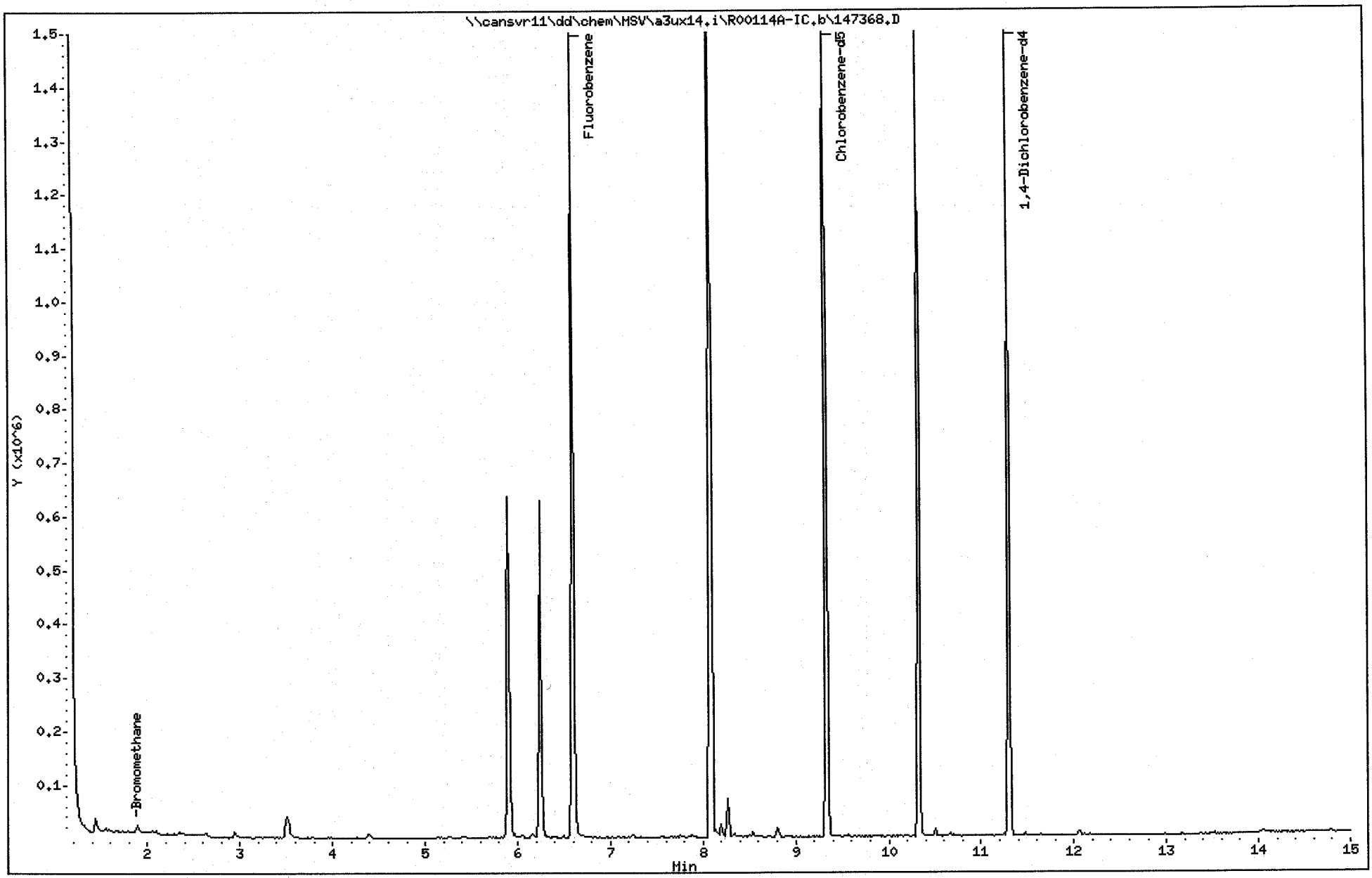
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Date : 14-JAN-2010 16:50
Client ID:
Sample Info: 10NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



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Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Lab Smp Id: 5NG-BMIC
Inj Date : 14-JAN-2010 17:14
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 5NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:50 Cal File: 147368.D
Als bottle: 19 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1331092	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	972754	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	525346	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	4438	5.00000	6.192

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147369.D
Lab Smp Id: 5NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,1

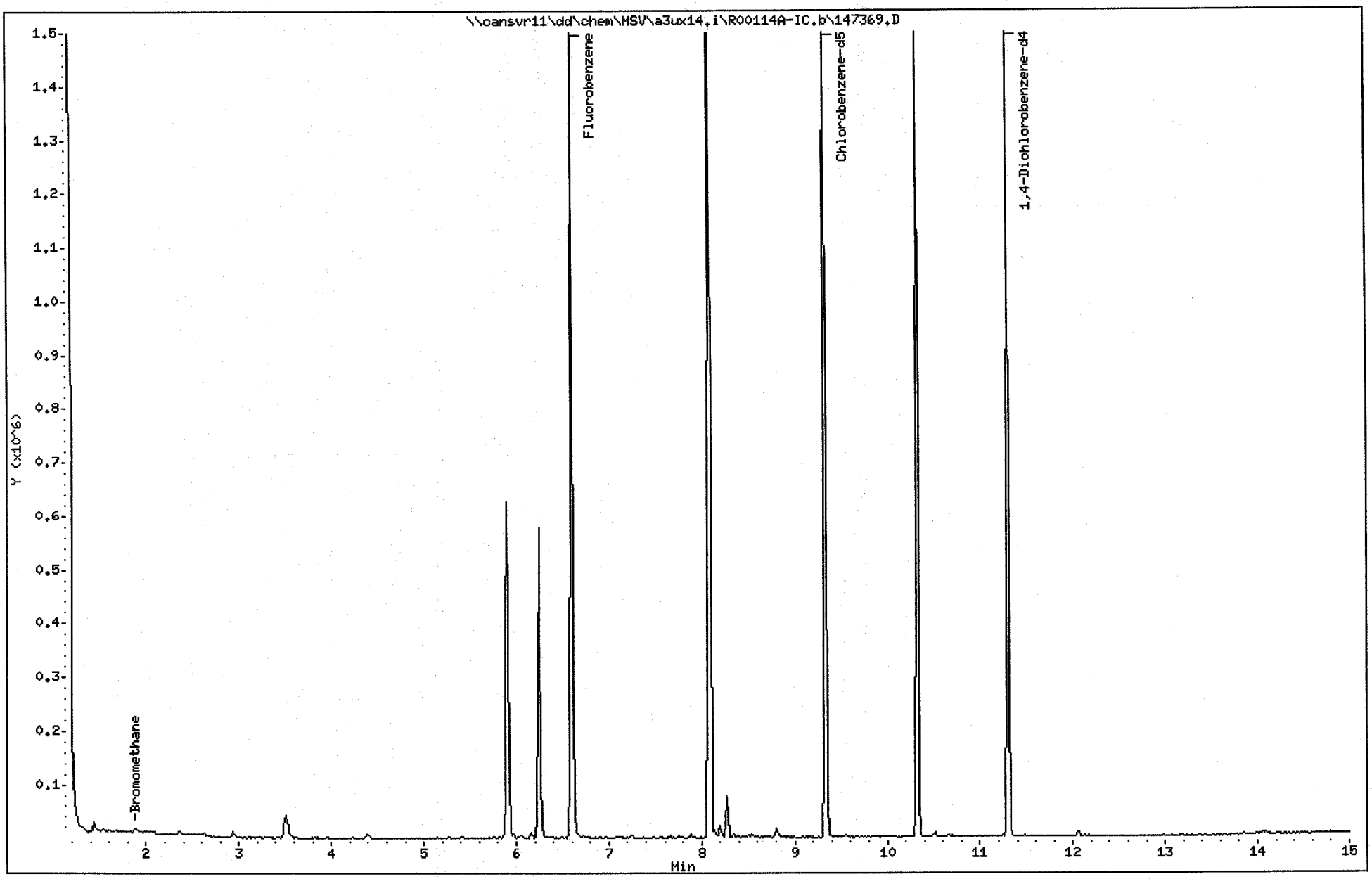
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1331092	-6.71
2 Chlorobenzene-d5	1019841	509921	2039682	972754	-4.62
3 1,4-Dichlorobenze	550598	275299	1101196	525346	-4.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Date : 14-JAN-2010 17:14
Client ID:
Sample Info: 5NC-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Report Date: 25-Feb-2010 12:55

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Start Cal Date: 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
14-JAN-2010 17:14	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
08-JAN-2010 18:18	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147289.D
14-JAN-2010 13:21	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Cal Level: 2 , Cal Amount: 10.00000		
14-JAN-2010 16:50	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
08-JAN-2010 17:55	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147288.D
14-JAN-2010 12:59	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Cal Level: 3 , Cal Amount: 25.00000		
14-JAN-2010 16:27	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
08-JAN-2010 17:33	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147287.D
14-JAN-2010 12:36	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Cal Level: 4 , Cal Amount: 50.00000		
14-JAN-2010 16:03	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
08-JAN-2010 17:11	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147286.D
14-JAN-2010 12:14	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Cal Level: 5 , Cal Amount: 100.00000		
14-JAN-2010 15:39	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
08-JAN-2010 16:49	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147285.D

14-JAN-2010 11:51	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D		

Cal Level: 6 , Cal Amount: 250.00000		
14-JAN-2010 15:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D		
08-JAN-2010 16:27	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147284.D		
14-JAN-2010 11:29	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D		

Cal Level: 7 , Cal Amount: 500.00000		
14-JAN-2010 14:53	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D		
08-JAN-2010 16:06	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147283.D		
14-JAN-2010 11:07	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D		

Cal Level: 8 , Cal Amount: 1000.00000		
14-JAN-2010 14:30	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D		
08-JAN-2010 15:44	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147282.D		
14-JAN-2010 10:45	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

25-FEB-2010 11:54	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148182.D		
25-FEB-2010 12:17	3-IX	
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Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148182.D
Report Date: 25-Feb-2010 12:55

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 25-FEB-2010 11:54
Lab File ID: 148182.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.27543	0.26005	0.26005	0.010	5.58271	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.28239	0.26337	0.26337	0.010	6.73458	50.00000	Averaged	
$ 6 Toluene-d8	1.35529	1.43234	1.43234	0.010	-5.68552	50.00000	Averaged	
$ 7 Bromofluorobenzene	0.92698	0.89056	0.89056	0.010	3.92871	50.00000	Averaged	
8 Dichlorodifluoromethane	0.25286	0.26246	0.26246	0.010	-3.79699	50.00000	Averaged	
9 Chloromethane	0.36556	0.30682	0.30682	0.100	16.06695	50.00000	Averaged	
10 Vinyl Chloride	0.27573	0.27258	0.27258	0.010	1.14333	20.00000	Averaged	
11 Bromomethane	0.13462	0.11957	0.11957	0.010	11.18461	50.00000	Averaged	
12 Chloroethane	0.16260	0.15173	0.15173	0.010	6.68876	50.00000	Averaged	
13 Trichlorofluoromethane	0.26554	0.30354	0.30354	0.010	-14.31138	50.00000	Averaged	
15 Acrolein	0.03142	0.02838	0.02838	0.010	9.66456	50.00000	Averaged	
16 Acetone	500	544	0.08994	0.010	-8.79339	0.000e+000	Wt Linear	
17 1,1-Dichloroethene	0.23886	0.23067	0.23067	0.010	3.42577	20.00000	Averaged	
18 Freon-113	0.19183	0.19796	0.19796	0.010	-3.19784	50.00000	Averaged	
19 Iodomethane	0.40711	0.39885	0.39885	0.010	2.02662	50.00000	Averaged	
20 Carbon Disulfide	0.68415	0.64838	0.64838	0.010	5.22848	50.00000	Averaged	
21 Methylene Chloride	250	244	0.26457	0.010	2.21939	0.000e+000	Wt Linear	
22 Acetonitrile	0.03316	0.03384	0.03384	0.010	-2.03702	50.00000	Averaged	
23 Acrylonitrile	0.09839	0.10227	0.10227	0.010	-3.94121	50.00000	Averaged	
24 Methyl tert-butyl ether	0.62058	0.67811	0.67811	0.010	-9.27172	50.00000	Averaged	
25 trans-1,2-Dichloroethene	0.27738	0.28089	0.28089	0.010	-1.26733	50.00000	Averaged	
26 Hexane	0.06401	0.06478	0.06478	0.010	-1.20319	20.00000	Averaged	
27 Vinyl acetate	0.32001	0.25506	0.25506	0.010	20.29683	50.00000	Averaged	
154 Vinyl Acetate**2nd**	0.02851	0.02190	0.02190	0.010	23.19515	50.00000	Averaged	
28 1,1-Dichloroethane	0.49634	0.49817	0.49817	0.100	-0.36960	50.00000	Averaged	
29 tert-Butyl Alcohol	0.02261	0.02487	0.02487	0.010	-9.97846	50.00000	Averaged	
30 2-Butanone	0.12811	0.11999	0.11999	0.010	6.33437	50.00000	Averaged	
M 31 1,2-Dichloroethene (total)	0.28079	0.28631	0.28631	0.010	-1.96550	50.00000	Averaged	
32 cis-1,2-dichloroethene	0.28421	0.29173	0.29173	0.010	-2.64690	50.00000	Averaged	
33 2,2-Dichloropropane	0.19420	0.19002	0.19002	0.010	2.14952	50.00000	Averaged	
34 Bromochloromethane	0.13814	0.13984	0.13984	0.010	-1.23259	50.00000	Averaged	
35 Chloroform	0.45496	0.45368	0.45368	0.010	0.28119	20.00000	Averaged	
36 Tetrahydrofuran	0.08298	0.08037	0.08037	0.010	3.14579	50.00000	Averaged	
37 1,1,1-Trichloroethane	0.32897	0.35024	0.35024	0.010	-6.46501	50.00000	Averaged	
38 1,1-Dichloropropene	0.34497	0.36467	0.36467	0.010	-5.70899	50.00000	Averaged	
39 Carbon Tetrachloride	0.28593	0.35648	0.35648	0.010	-24.67520	50.00000	Averaged	
40 1,2-Dichloroethane	0.33673	0.33499	0.33499	0.010	0.51631	50.00000	Averaged	
41 Benzene	1.08058	1.05866	1.05866	0.010	2.02888	50.00000	Averaged	
42 Trichloroethene	0.29782	0.29190	0.29190	0.010	1.98748	50.00000	Averaged	
43 1,2-Dichloropropane	0.27071	0.26480	0.26480	0.010	2.18449	20.00000	Averaged	
44 1,4-Dioxane	0.00223	0.00223	0.00223	0.010	0.37406	50.00000	Averaged	<-
45 Dibromomethane	0.13786	0.13827	0.13827	0.010	-0.29723	50.00000	Averaged	
46 Bromodichloromethane	0.27945	0.28514	0.28514	0.010	-2.03394	50.00000	Averaged	

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Report Date: 25-Feb-2010 12:55

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 25-FEB-2010 11:54
Lab File ID: 148182.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
47 2-Chloroethyl vinyl ether	500	469	0.11994	0.010	6.25545	0.000e+000	Wt Linear
48 cis-1,3-Dichloropropene	0.34370	0.33711	0.33711	0.010	1.91680	50.00000	Averaged
49 4-Methyl-2-pentanone	0.30190	0.34294	0.34294	0.010	-13.59259	50.00000	Averaged
50 Toluene	1.47660	1.61909	1.61909	0.010	-9.64964	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.38806	0.41283	0.41283	0.010	-6.38285	50.00000	Averaged
52 Ethyl Methacrylate	250	236	0.35843	0.010	5.60707	0.000e+000	Wt Linear
53 1,1,2-Trichloroethane	0.26341	0.28158	0.28158	0.010	-6.89851	50.00000	Averaged
54 1,3-Dichloropropane	0.44131	0.47243	0.47243	0.010	-7.05130	50.00000	Averaged
55 Tetrachloroethene	0.31174	0.33329	0.33329	0.010	-6.91155	50.00000	Averaged
56 2-Hexanone	0.20799	0.22926	0.22926	0.010	-10.22591	50.00000	Averaged
57 Dibromochloromethane	0.27496	0.30895	0.30895	0.010	-12.36448	50.00000	Averaged
58 1,2-Dibromoethane	0.25432	0.27576	0.27576	0.010	-8.43011	50.00000	Averaged
59 Chlorobenzene	1.01494	1.04053	1.04053	0.300	-2.52095	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.32190	0.35652	0.35652	0.010	-10.75765	50.00000	Averaged
61 Ethylbenzene	0.52312	0.57520	0.57520	0.010	-9.95433	20.00000	Averaged
62 m + p-Xylene	0.63288	0.70468	0.70468	0.010	-11.34565	50.00000	Averaged
M 63 Xylenes (total)	0.62069	0.69356	0.69356	0.010	-11.74040	50.00000	Averaged
64 Xylene-o	0.59632	0.67132	0.67132	0.010	-12.57829	50.00000	Averaged
65 Styrene	0.94789	1.05805	1.05805	0.010	-11.62243	50.00000	Averaged
66 Bromoform	0.16647	0.17974	0.17974	0.100	-7.96967	50.00000	Averaged
67 Isopropylbenzene	1.60039	1.82366	1.82366	0.010	-13.95133	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	0.61326	0.64952	0.64952	0.300	-5.91315	50.00000	Averaged
69 1,4-Dichloro-2-butene	0.19027	0.18612	0.18612	0.010	2.18035	50.00000	Averaged
70 1,2,3-Trichloropropane	0.17772	0.18046	0.18046	0.010	-1.53809	50.00000	Averaged
71 Bromobenzene	0.73608	0.74548	0.74548	0.010	-1.27763	50.00000	Averaged
72 n-Propylbenzene	0.85584	0.92128	0.92128	0.010	-7.64668	50.00000	Averaged
73 2-Chlorotoluene	0.69627	0.79137	0.79137	0.010	-13.65885	50.00000	Averaged
74 1,3,5-Trimethylbenzene	2.37034	2.67261	2.67261	0.010	-12.75240	50.00000	Averaged
75 4-Chlorotoluene	0.73518	0.79653	0.79653	0.010	-8.34596	50.00000	Averaged
76 tert-Butylbenzene	2.19484	2.46702	2.46702	0.010	-12.40055	50.00000	Averaged
77 1,2,4-Trimethylbenzene	2.41951	2.71636	2.71636	0.010	-12.26910	50.00000	Averaged
78 sec-Butylbenzene	3.15647	3.59082	3.59082	0.010	-13.76039	50.00000	Averaged
79 4-Isopropyltoluene	2.68270	2.96642	2.96642	0.010	-10.57597	50.00000	Averaged
80 1,3-Dichlorobenzene	1.39754	1.46324	1.46324	0.010	-4.70075	50.00000	Averaged
81 1,4-Dichlorobenzene	1.48261	1.47220	1.47220	0.010	0.70272	50.00000	Averaged
82 n-Butylbenzene	2.32775	2.59750	2.59750	0.010	-11.58855	50.00000	Averaged
83 1,2-Dichlorobenzene	1.30847	1.36699	1.36699	0.010	-4.47222	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	0.10583	0.11189	0.11189	0.010	-5.72291	50.00000	Averaged
85 1,2,4-Trichlorobenzene	0.84675	0.91490	0.91490	0.010	-8.04910	50.00000	Averaged
87 Naphthalene	1.94875	2.08601	2.08601	0.010	-7.04339	50.00000	Averaged
86 Hexachlorobutadiene	0.54279	0.56710	0.56710	0.010	-4.47941	50.00000	Averaged
88 1,2,3-Trichlorobenzene	0.83409	0.86695	0.86695	0.010	-3.93936	50.00000	Averaged
98 Cyclohexane	0.58694	0.61948	0.61948	0.010	-5.54509	50.00000	Averaged

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Report Date: 25-Feb-2010 12:55

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 25-FEB-2010 11:54
Lab File ID: 148182.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
143 Methyl Acetate	0.24297	0.25568	0.25568	0.010	-5.23198	50.00000	Averaged
144 Methylcyclohexane	0.50183	0.56292	0.56292	0.010	-12.17370	50.00000	Averaged
141 1,3,5-Trichlorobenzene	0.99845	1.06560	1.06560	0.010	-6.72626	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148182.D
Report Date: 25-Feb-2010 12:55

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148182.D
Lab Smp Id: 250NG-CC
Inj Date : 25-FEB-2010 11:54
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-CC
Misc Info : R00225A,8260SUX14,1-8260.SUB,2807,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Meth Date : 25-Feb-2010 12:55 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1478249	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1013027	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.308	11.308	(1.000)	566289	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	384420	250.000	236.04
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	389324	250.000	233.16
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1451003	250.000	264.21
$ 7 Bromofluorobenzene	95	10.326	10.326	(0.913)	504315	250.000	240.18
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	387977	250.000	259.49
9 Chloromethane	50	1.463	1.463	(0.222)	453559	250.000	209.83
10 Vinyl Chloride	62	1.570	1.570	(0.238)	402934	250.000	247.14
11 Bromomethane	94	1.889	1.889	(0.286)	176749	250.000	222.04
12 Chloroethane	64	1.996	1.996	(0.303)	224291	250.000	233.28
13 Trichlorofluoromethane	101	2.280	2.280	(0.346)	448710	250.000	285.78
15 Acrolein	56	2.741	2.741	(0.415)	419590	2500.00	2258.4
16 Acetone	43	2.931	2.931	(0.444)	265897	500.000	543.97
17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	340993	250.000	241.44
18 Freon-113	151	2.895	2.895	(0.439)	292638	250.000	257.99
19 Iodomethane	142	3.037	3.037	(0.460)	589607	250.000	244.93
20 Carbon Disulfide	76	3.108	3.108	(0.471)	958460	250.000	236.93

21	Methylene Chloride	84	3.511	3.511 (0.532)	391105	250.000	244.45
22	Acetonitrile	41	3.298	3.298 (0.500)	500224	2500.00	2550.9
23	Acrylonitrile	53	3.889	3.889 (0.589)	302367	500.000	519.71

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Report Date: 25-Feb-2010 12:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	1002420	250.000	273.18
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	415228	250.000	253.17
	26 Hexane	86	4.398	4.398	(0.666)	95762	250.000	253.01
	27 Vinyl acetate	43	4.694	4.694	(0.711)	377043	250.000	199.26
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	32373	250.000	192.01(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	736419	250.000	250.92
	29 tert-Butyl Alcohol	59	3.783	3.783	(0.573)	735293	5000.00	5498.9
	30 2-Butanone	43	5.380	5.380	(0.815)	354762	500.000	468.33
M	31 1,2-Dichloroethene (total)	96				846479	500.000	
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	431251	250.000	256.62
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	280903	250.000	244.63
	34 Bromochloromethane	128	5.605	5.605	(0.849)	206719	250.000	253.08
	35 Chloroform	83	5.723	5.723	(0.867)	670655	250.000	249.30
	36 Tetrahydrofuran	42	5.676	5.676	(0.860)	118806	250.000	242.14
	37 1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	517740	250.000	266.16
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	539070	250.000	264.27
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	526969	250.000	311.69
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	495199	250.000	248.71
	41 Benzene	78	6.303	6.303	(0.955)	1564964	250.000	244.93
	42 Trichloroethene	130	6.966	6.966	(1.056)	431498	250.000	245.03
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	391437	250.000	244.54
	44 1,4-Dioxane	88	7.309	7.309	(1.108)	164477	12500.0	12453
	45 Dibromomethane	93	7.273	7.273	(1.102)	204398	250.000	250.74
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	421504	250.000	255.08
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	354596	500.000	468.72
	48 cis-1,3-Dichloropropene	75	7.841	7.841	(1.188)	498338	250.000	245.21
	49 4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	694815	500.000	567.96
	50 Toluene	91	8.149	8.149	(0.873)	1640180	250.000	274.12
	51 trans-1,3-Dichloropropene	75	8.338	8.338	(0.893)	418212	250.000	265.96
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	363103	250.000	235.98
	53 1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	285249	250.000	267.25
	54 1,3-Dichloropropane	76	8.634	8.634	(0.925)	478584	250.000	267.63
	55 Tetrachloroethene	164	8.622	8.622	(0.924)	337627	250.000	267.28
	56 2-Hexanone	43	8.717	8.717	(0.934)	464498	500.000	551.13
	57 Dibromochloromethane	129	8.835	8.835	(0.947)	312977	250.000	280.91
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	279357	250.000	271.08
	59 Chlorobenzene	112	9.356	9.356	(1.003)	1054082	250.000	256.30
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	361169	250.000	276.89
	61 Ethylbenzene	106	9.451	9.451	(1.013)	582689	250.000	274.88
	62 m + p-Xylene	106	9.557	9.557	(1.024)	1427725	500.000	556.73
	64 Xylene-o	106	9.889	9.889	(1.060)	680070	250.000	281.44
	65 Styrene	104	9.900	9.900	(1.061)	1071837	250.000	279.06
	66 Bromoform	173	10.054	10.054	(1.077)	182078	250.000	269.92
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	1847417	250.000	284.88
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	367815	250.000	264.78
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	105398	250.000	244.55
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	102190	250.000	253.84
	71 Bromobenzene	156	10.456	10.456	(0.925)	422159	250.000	253.19
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	521713	250.000	269.12
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	448145	250.000	284.15
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1513471	250.000	281.88
	75 4-Chlorotoluene	126	10.717	10.717	(0.948)	451068	250.000	270.86

76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1397044	250.000	281.00
77	1,2,4-Trimethylbenzene	105	11.013	11.013 (0.974)	1538244	250.000	280.67

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Report Date: 25-Feb-2010 12:55

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
78 sec-Butylbenzene	105	11.155	11.155	(0.986)	2033440	250.000	284.40
79 4-Isopropyltoluene	119	11.273	11.273	(0.997)	1679851	250.000	276.44
80 1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	828616	250.000	261.75
81 1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	833688	250.000	248.24
82 n-Butylbenzene	91	11.616	11.616	(1.027)	1470938	250.000	278.97
83 1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	774111	250.000	261.18
84 1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	63363	250.000	264.31
85 1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	518099	250.000	270.12
87 Naphthalene	128	13.178	13.178	(1.165)	1181285	250.000	267.61
86 Hexachlorobutadiene	225	13.131	13.131	(1.161)	321145	250.000	261.20
88 1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	490945	250.000	259.85
98 Cyclohexane	56	5.972	5.972	(0.905)	915748	250.000	263.86
143 Methyl Acetate	43	3.392	3.392	(0.514)	755929	500.000	526.16
144 Methylcyclohexane	83	7.143	7.143	(1.082)	832136	250.000	280.43
141 1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	603440	250.000	266.82

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148182.D
Report Date: 25-Feb-2010 12:55

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

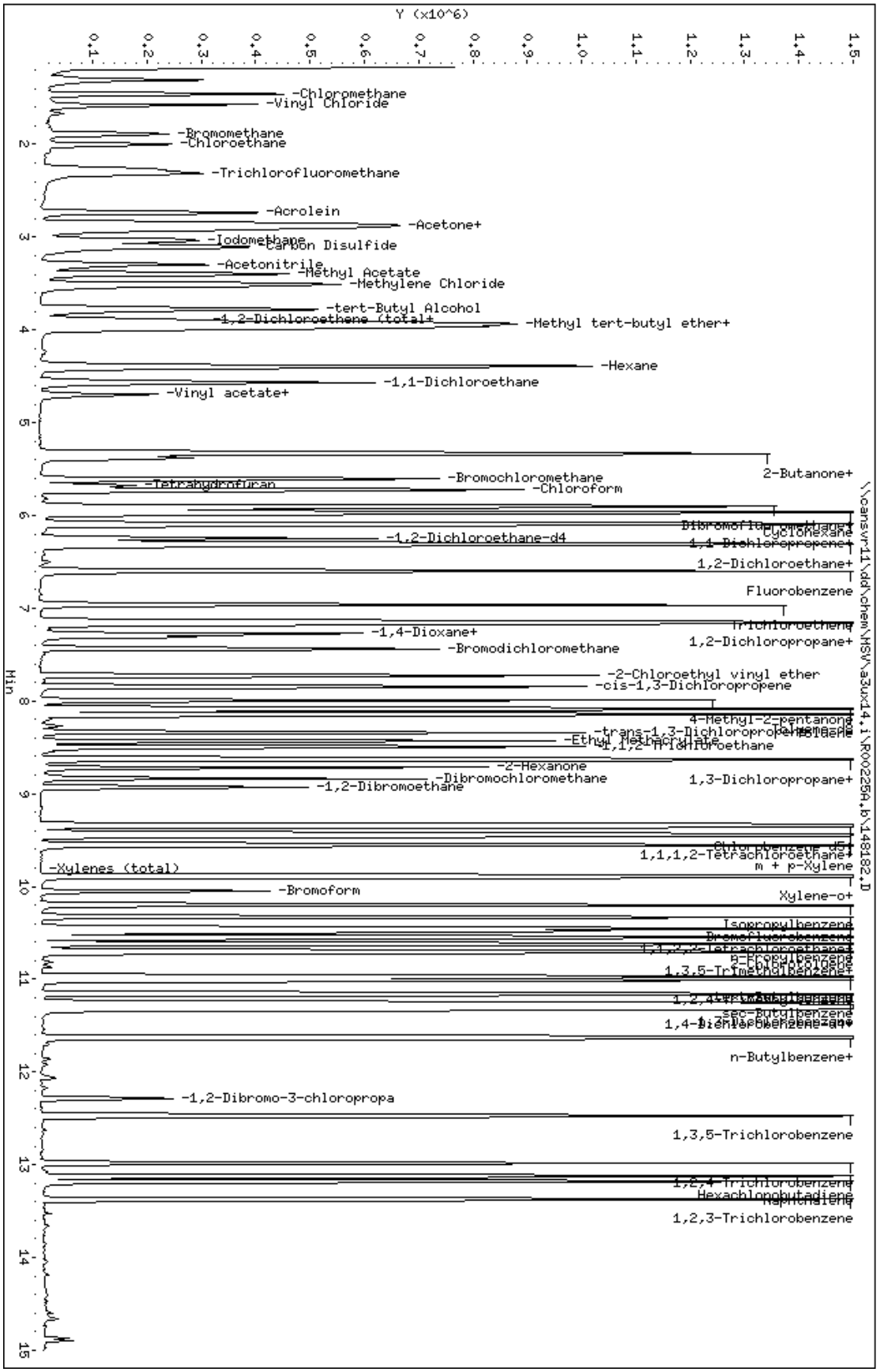
Instrument ID: a3ux14.i
Lab File ID: 148182.D
Lab Smp Id: 250NG-CC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,1-8260.SUB,2807,2

Calibration Date: 25-FEB-2010
Calibration Time: 12:17
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1456946	728473	2913892	1478249	1.46
2 Chlorobenzene-d5	1022977	511489	2045954	1013027	-0.97
3 1,4-Dichlorobenze	505203	252602	1010406	566289	12.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.01
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148182.D
Date : 25-FEB-2010 11:54
Client ID:
Sample Info: 250NG-CC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

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Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148184.D
Report Date: 25-Feb-2010 13:27

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,1-8260.SUB,2807,3

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
*	1 Fluorobenzene	0.0000	50.000	0.00	0-0
*	2 Chlorobenzene-d5	0.0000	50.000	0.00	0-0
*	3 1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$	6 Toluene-d8	50.000	51.792	103.58	50-150
$	7 Bromofluorobenzene	50.000	47.891	95.78	50-150
	60 1,1,1,2-Tetrachlor	5.000	4.999	99.98	70-130
	37 1,1,1-Trichloroeth	5.000	5.232	104.64	70-130
	68 1,1,2,2-Tetrachlor	5.000	4.724	94.49	70-130
	53 1,1,2-Trichloroeth	5.000	5.338	106.77	70-130
	28 1,1-Dichloroethane	5.000	5.073	101.47	70-130
	17 1,1-Dichloroethene	5.000	5.189	103.78	70-130
	38 1,1-Dichloropropen	5.000	4.988	99.77	70-130
	88 1,2,3-Trichloroben	5.000	4.882	97.65	70-130
	70 1,2,3-Trichloropro	5.000	5.352	107.03	70-130
	85 1,2,4-Trichloroben	5.000	5.097	101.93	70-130
	77 1,2,4-Trimethylben	5.000	4.819	96.37	70-130
	84 1,2-Dibromo-3-chlo	5.000	4.941	98.82	70-130
	58 1,2-Dibromoethane	5.000	4.901	98.02	70-130
	83 1,2-Dichlorobenzen	5.000	5.393	107.86	70-130
	40 1,2-Dichloroethane	5.000	5.040	100.80	70-130
	43 1,2-Dichloropropan	5.000	5.151	103.02	70-130
	74 1,3,5-Trimethylben	5.000	4.883	97.66	70-130
	80 1,3-Dichlorobenzen	5.000	5.455	109.11	70-130
	54 1,3-Dichloropropan	5.000	5.521	110.43	70-130
	81 1,4-Dichlorobenzen	5.000	5.423	108.45	70-130
	33 2,2-Dichloropropan	5.000	4.406	88.11	70-130
	30 2-Butanone	10.000	9.630	96.30	70-130
	73 2-Chlorotoluene	5.000	5.544	110.88	70-130
	56 2-Hexanone	10.000	10.347	103.47	70-130
	75 4-Chlorotoluene	5.000	5.317	106.33	70-130
	49 4-Methyl-2-pentano	10.000	9.946	99.47	70-130
	16 Acetone	10.000	9.874	98.74	70-130
	41 Benzene	5.000	4.982	99.63	70-130
	71 Bromobenzene	5.000	5.328	106.57	70-130
	34 Bromochloromethane	5.000	5.115	102.31	70-130
	46 Bromodichlorometha	5.000	4.694	93.89	70-130
	66 Bromoform	5.000	4.382	87.64	70-130
	11 Bromomethane	5.000	5.701	114.02	70-130

20 Carbon Disulfide	5.000	4.260	85.19	70-130
39 Carbon Tetrachlori	5.000	6.080	121.60	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148184.D
Report Date: 25-Feb-2010 13:27

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	59 Chlorobenzene	5.000	5.256	105.11	70-130
	57 Dibromochlorometha	5.000	4.591	91.82	70-130
	12 Chloroethane	5.000	5.356	107.12	70-130
	35 Chloroform	5.000	5.151	103.02	70-130
	9 Chloromethane	5.000	5.548	110.96	70-130
	32 cis-1,2-dichloroet	5.000	4.874	97.48	70-130
	48 cis-1,3-Dichloropr	5.000	4.357	87.13	70-130
	45 Dibromomethane	5.000	5.231	104.62	70-130
	8 Dichlorodifluorome	5.000	6.144	122.88	70-130
	61 Ethylbenzene	5.000	4.953	99.05	70-130
	86 Hexachlorobutadien	5.000	5.088	101.76	70-130
	67 Isopropylbenzene	5.000	4.694	93.89	70-130
	62 m + p-Xylene	10.000	10.268	102.68	70-130
	21 Methylene Chloride	5.000	3.974	79.48	70-130
	87 Naphthalene	5.000	4.064	81.28	70-130
	82 n-Butylbenzene	5.000	4.432	88.65	70-130
	72 n-Propylbenzene	5.000	4.778	95.57	70-130
	64 Xylene-o	5.000	5.068	101.36	70-130
	79 4-Isopropyltoluene	5.000	4.646	92.92	70-130
	78 sec-Butylbenzene	5.000	4.871	97.42	70-130
	65 Styrene	5.000	4.522	90.43	70-130
	76 tert-Butylbenzene	5.000	4.857	97.13	70-130
	55 Tetrachloroethene	5.000	5.416	108.32	70-130
	50 Toluene	5.000	6.020	120.41	70-130
	25 trans-1,2-Dichloro	5.000	5.190	103.80	70-130
	51 trans-1,3-Dichloro	5.000	4.380	87.60	70-130
	42 Trichloroethene	5.000	5.518	110.36	70-130
	13 Trichlorofluoromet	5.000	5.668	113.36	70-130
	10 Vinyl Chloride	5.000	5.970	119.40	70-130
	19 Iodomethane	5.000	5.089	101.78	70-130
	24 Methyl tert-butyl	5.000	4.978	99.57	70-130
	15 Acrolein	50.000	47.119	94.24	70-130
	18 Freon-113	5.000	5.706	114.11	70-130
	22 Acetonitrile	50.000	61.258	122.52	70-130
	23 Acrylonitrile	10.000	10.819	108.19	70-130
	26 Hexane	5.000	4.732	94.63	70-130
	29 tert-Butyl Alcohol	100.00	104.43	104.43	70-130
M	31 1,2-Dichloroethene	10.000	10.064	100.64	70-130
	36 Tetrahydrofuran	5.000	4.642	92.85	70-130
	47 2-Chloroethyl viny	10.000	9.216	92.17	70-130
	44 1,4-Dioxane	250.00	238.71	95.49	70-130
	52 Ethyl Methacrylate	5.000	4.299	85.98	70-130
M	63 Xylenes (total)	15.000	15.336	102.24	70-130
	69 1,4-Dichloro-2-but	5.000	4.351	87.02	70-130
	98 Cyclohexane	5.000	5.102	102.05	70-130
	141 1,3,5-Trichloroben	5.000	5.277	105.54	70-130
	143 Methyl Acetate	10.000	10.825	108.25	70-130
	144 Methylcyclohexane	5.000	4.872	97.44	70-130
	27 Vinyl acetate	5.000	2.328	46.57*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148184.D
Report Date: 25-Feb-2010 13:27

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,1-8260.SUB,2807,3

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	50.000	47.403	94.81	59-138
$ 5 1,2-Dichloroethane	50.000	47.731	95.46	61-130
$ 6 Toluene-d8	50.000	51.792	103.58	60-143
$ 7 Bromofluorobenzene	50.000	47.891	95.78	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148184.D
Report Date: 25-Feb-2010 13:27

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148184.D
Lab Smp Id: QCMRL
Inj Date : 25-FEB-2010 12:40
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMRL
Misc Info : R00225A,8260SUX14,1-8260.SUB,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Meth Date : 25-Feb-2010 12:55 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 4 QC Sample: MRL
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1412128	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.332	(1.000)	990006	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.308	(1.000)	557244	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	368735	237.014	47.403
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	380673	238.657	47.731
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1389844	258.962	51.792
$ 7 Bromofluorobenzene	95	10.327	10.326	(0.913)	494769	239.457	47.891
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	43876	30.7199	6.144
9 Chloromethane	50	1.452	1.463	(0.220)	57279	27.7401	5.548
10 Vinyl Chloride	62	1.570	1.570	(0.238)	46489	29.8494	5.970
11 Bromomethane	94	1.890	1.889	(0.286)	21675	28.5039	5.701
12 Chloroethane	64	2.008	1.996	(0.304)	24597	26.7804	5.356
13 Trichlorofluoromethane	101	2.268	2.280	(0.344)	42509	28.3412	5.668
15 Acrolein	56	2.742	2.741	(0.416)	41814	235.596	47.119
16 Acetone	43	2.943	2.931	(0.446)	48411	49.3720	9.874
17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	35005	25.9453	5.189
18 Freon-113	151	2.896	2.895	(0.439)	30911	28.5277	5.706
19 Iodomethane	142	3.038	3.037	(0.460)	58511	25.4447	5.089
20 Carbon Disulfide	76	3.109	3.108	(0.471)	82303	21.2977	4.260

21 Methylene Chloride	84	3.511	3.511 (0.532)	59998	19.8691	3.974
22 Acetonitrile	41	3.298	3.298 (0.500)	57376	306.293	61.258
23 Acrylonitrile	53	3.889	3.889 (0.589)	30065	54.0951	10.819

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148184.D
Report Date: 25-Feb-2010 13:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	87255	24.8921	4.978
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	40657	25.9497	5.190
	26 Hexane	86	4.398	4.398	(0.666)	8554	23.6583	4.732
	27 Vinyl acetate	43	4.694	4.694	(0.711)	21043	11.6414	2.328(R)
	154 Vinyl Acetate**2nd**	86	4.706	4.694	(0.713)	1366	8.48145	1.696(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	71117	25.3667	5.073
	29 tert-Butyl Alcohol	59	3.771	3.783	(0.571)	66697	522.152	104.43
	30 2-Butanone	43	5.380	5.380	(0.815)	34841	48.1479	9.630
M	31 1,2-Dichloroethene (total)	96				79780	50.3200	10.064
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	39123	24.3703	4.874
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	24164	22.0287	4.406
	34 Bromochloromethane	128	5.605	5.605	(0.849)	19957	25.5769	5.115
	35 Chloroform	83	5.724	5.723	(0.867)	66186	25.7548	5.151
	36 Tetrahydrofuran	42	5.688	5.676	(0.862)	10880	23.2125	4.642
	37 1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	48612	26.1609	5.232
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	48602	24.9422	4.988
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	49098	30.3999	6.080
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	47930	25.1996	5.040
	41 Benzene	78	6.303	6.303	(0.955)	152029	24.9077	4.982
	42 Trichloroethene	130	6.966	6.966	(1.056)	46412	27.5897	5.518
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	39382	25.7547	5.151
	44 1,4-Dioxane	88	7.321	7.309	(1.109)	15059	1193.57	238.71
	45 Dibromomethane	93	7.274	7.273	(1.102)	20367	26.1549	5.231
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	37051	23.4723	4.694
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	27110	46.0828	9.216
	48 cis-1,3-Dichloropropene	75	7.842	7.841	(1.188)	42291	21.7837	4.357
	49 4-Methyl-2-pentanone	43	7.996	7.995	(0.857)	59458	49.7330	9.946
	50 Toluene	91	8.149	8.149	(0.873)	176019	30.1022	6.020
	51 trans-1,3-Dichloropropene	75	8.339	8.338	(0.894)	33656	21.9008	4.380
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	26259	21.4938	4.299
	53 1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	27842	26.6914	5.338
	54 1,3-Dichloropropane	76	8.634	8.634	(0.925)	48246	27.6069	5.521
	55 Tetrachloroethene	164	8.623	8.622	(0.924)	33431	27.0807	5.416
	56 2-Hexanone	43	8.717	8.717	(0.934)	42614	51.7375	10.347
	57 Dibromochloromethane	129	8.836	8.835	(0.947)	24994	22.9549	4.591
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	24680	24.5052	4.901
	59 Chlorobenzene	112	9.356	9.356	(1.003)	105615	26.2777	5.256
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	31860	24.9938	4.999
	61 Ethylbenzene	106	9.451	9.451	(1.013)	51300	24.7637	4.953
	62 m + p-Xylene	106	9.557	9.557	(1.024)	128674	51.3420	10.268
M	63 Xylenes (total)	106				188515	76.6830	15.336
	64 Xylene-o	106	9.889	9.889	(1.060)	59841	25.3410	5.068
	65 Styrene	104	9.901	9.900	(1.061)	84863	22.6081	4.522
	66 Bromoform	173	10.054	10.054	(1.077)	14444	21.9106	4.382
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	148757	23.4723	4.694
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	32290	23.6222	4.724
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	9226	21.7540	4.351
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	10600	26.7583	5.352
	71 Bromobenzene	156	10.457	10.456	(0.925)	43712	26.6422	5.328
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	45577	23.8917	4.778
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	43019	27.7190	5.544
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	128989	24.4139	4.883

75	4-Chlorotoluene	126	10.705	10.717 (0.947)	43562	26.5834	5.317
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	118800	24.2833	4.857

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148184.D
Report Date: 25-Feb-2010 13:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	129936	24.0934	4.819
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	171352	24.3546	4.871
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	138902	23.2290	4.646
80	1,3-Dichlorobenzene	146	11.250	11.249	(0.995)	84971	27.2772	5.455
81	1,4-Dichlorobenzene	146	11.321	11.320	(1.001)	89601	27.1131	5.423
82	n-Butylbenzene	91	11.616	11.616	(1.027)	114984	22.1613	4.432
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	78643	26.9644	5.393
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	5828	24.7050	4.941
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	48097	25.4835	5.097
87	Naphthalene	128	13.178	13.178	(1.165)	88269	20.3210	4.064
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	30779	25.4400	5.088
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	45385	24.4114	4.882
98	Cyclohexane	56	5.972	5.972	(0.905)	84582	25.5125	5.102
143	Methyl Acetate	43	3.404	3.392	(0.516)	74285	54.1267	10.825
144	Methylcyclohexane	83	7.144	7.143	(1.082)	69053	24.3609	4.872
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	58719	26.3845	5.277

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148184.D
Report Date: 25-Feb-2010 13:27

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

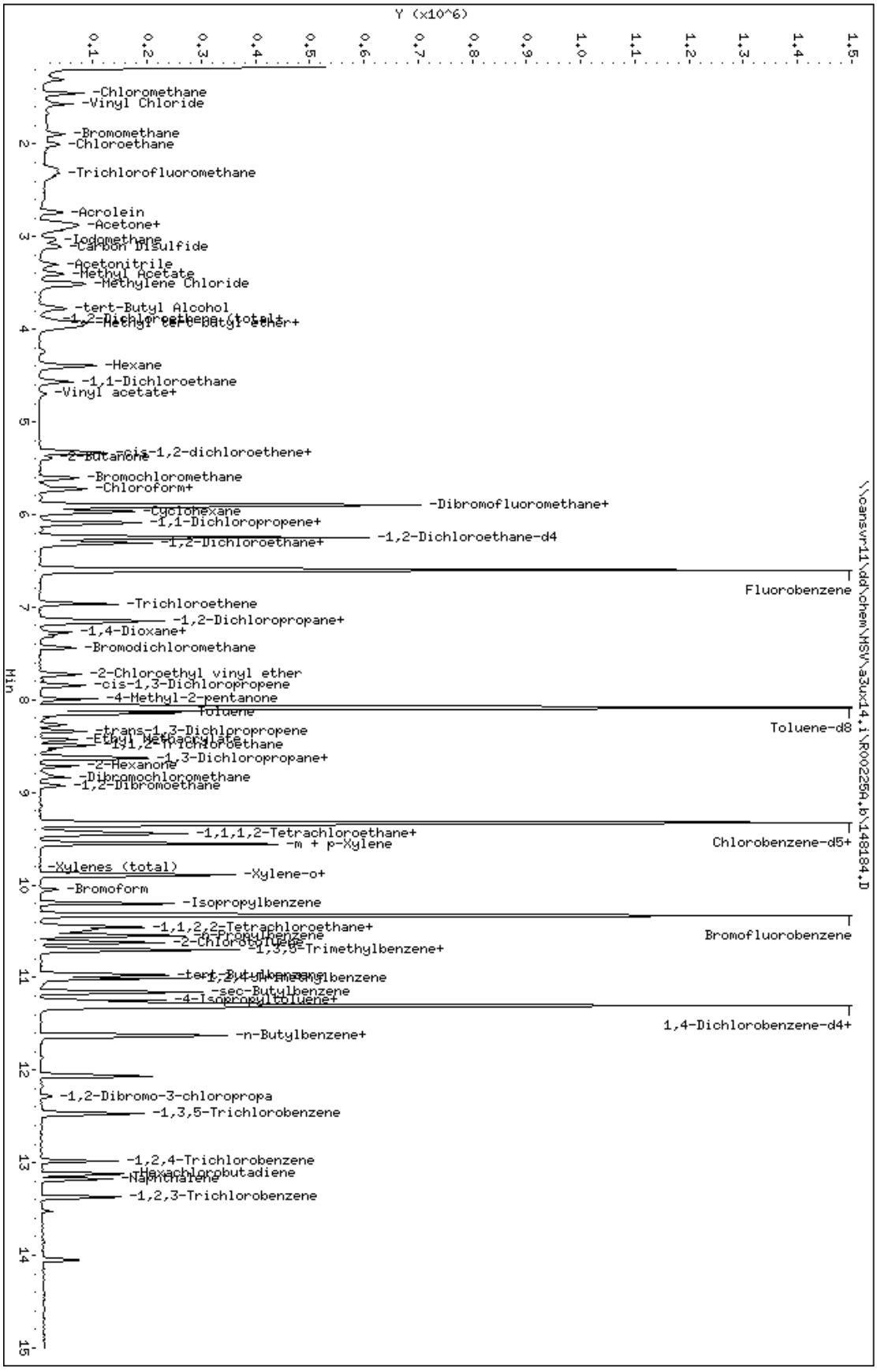
Instrument ID: a3ux14.i
Lab File ID: 148184.D
Lab Smp Id: QCMRL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,1-8260.SUB,2807,3

Calibration Date: 25-FEB-2010
Calibration Time: 11:54
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1478249	739125	2956498	1412128	-4.47
2 Chlorobenzene-d5	1013027	506514	2026054	990006	-2.27
3 1,4-Dichlorobenze	566289	283145	1132578	557244	-1.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148184.D
Date : 25-FEB-2010 12:40
Client ID:
Sample Info: QCHRL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148184.D
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total)
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-Ethyl methacrylate+
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
Bromofluorobenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148187.D
Report Date: 25-Feb-2010 14:09

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148187.D
Lab Smp Id: QCMDL
Inj Date : 25-FEB-2010 13:46
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMDL
Misc Info : R00225A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Meth Date : 25-Feb-2010 12:55 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1	Fluorobenzene	96	6.599	6.599	(1.000)	1466939	250.000	
* 2	Chlorobenzene-d5	117	9.332	9.332	(1.000)	1042760	250.000	
* 3	1,4-Dichlorobenzene-d4	152	11.309	11.308	(1.000)	554386	250.000	
$ 4	Dibromofluoromethane	113	5.901	5.901	(0.894)	361645	223.771	44.754
$ 5	1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	371810	224.391	44.878
$ 6	Toluene-d8	98	8.090	8.090	(0.867)	1377052	243.598	48.720
$ 7	Bromofluorobenzene	95	10.326	10.326	(0.913)	489697	238.224	47.645
8	Dichlorodifluoromethane	85	1.310	1.298	(0.199)	5054	3.40635	0.6813
9	Chloromethane	50	1.452	1.463	(0.220)	10192	4.75154	0.9503
10	Vinyl Chloride	62	1.570	1.570	(0.238)	7065	4.36676	0.8734
11	Bromomethane	94	1.890	1.889	(0.286)	5181	6.55874	1.312
12	Chloroethane	64	2.008	1.996	(0.304)	4654	4.87780	0.9756
13	Trichlorofluoromethane	101	2.268	2.280	(0.344)	5376	3.45031	0.6901
15	Acrolein	56	2.742	2.741	(0.415)	8670	47.0249	9.405
16	Acetone	43	Compound Not Detected.					
17	1,1-Dichloroethene	96	2.860	2.860	(0.433)	5785	4.12757	0.8255
18	Freon-113	151	2.895	2.895	(0.439)	5242	4.65707	0.9314
19	Iodomethane	142	3.037	3.037	(0.460)	11494	4.81163	0.9623
20	Carbon Disulfide	76	3.097	3.108	(0.469)	16036	3.99462	0.7989
21	Methylene Chloride	84	Compound Not Detected.					

22 Acetonitrile	41	3.298	3.298 (0.500)	15546	79.8891	15.978
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148187.D
Report Date: 25-Feb-2010 14:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	17797	4.88743	0.9775
25	trans-1,2-Dichloroethene	96	3.937	3.925	(0.597)	8281	5.08793	1.018
26	Hexane	86	4.386	4.398	(0.665)	1676	4.46222	0.8924
27	Vinyl acetate	43	4.706	4.694	(0.713)	7144	3.80454	0.7609
154	Vinyl Acetate**2nd**	86	4.706	4.694	(0.713)	536	3.20366	0.6407(aA)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	14557	4.99833	0.9997
29	tert-Butyl Alcohol	59	3.771	3.783	(0.571)	13416	101.106	20.221
30	2-Butanone	43	5.392	5.380	(0.817)	8694	11.5656	2.313
M 31	1,2-Dichloroethene (total)	96				17099	10.3756	2.075
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	8818	5.28763	1.058
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	4979	4.36942	0.8739
34	Bromochloromethane	128	5.617	5.605	(0.851)	4065	5.01506	1.003
35	Chloroform	83	5.723	5.723	(0.867)	12608	4.72280	0.9446
36	Tetrahydrofuran	42	5.700	5.676	(0.864)	3158	6.48586	1.297
37	1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	9741	5.04631	1.009
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	9949	4.91498	0.9830
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	8447	5.03469	1.007
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	10608	5.36885	1.074
41	Benzene	78	6.303	6.303	(0.955)	33814	5.33293	1.066
42	Trichloroethene	130	6.966	6.966	(1.056)	8621	4.93328	0.9866
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	7627	4.80148	0.9603
44	1,4-Dioxane	88	7.321	7.309	(1.109)	2680	204.478	40.896
45	Dibromomethane	93	7.274	7.273	(1.102)	3681	4.55044	0.9101
46	Bromodichloromethane	83	7.439	7.439	(1.127)	7403	4.51467	0.9029
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	4165	14.7527	2.950
48	cis-1,3-Dichloropropene	75	7.841	7.841	(1.188)	8373	4.15171	0.8303
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	10541	8.37084	1.674
50	Toluene	91	8.137	8.149	(0.872)	62445	10.1389	2.028
51	trans-1,3-Dichloropropene	75	8.338	8.338	(0.893)	7270	4.49145	0.8983
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	5198	7.57462	1.515
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	6023	5.48197	1.096
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	10470	5.68797	1.138
55	Tetrachloroethene	164	8.622	8.622	(0.924)	7292	5.60804	1.122
56	2-Hexanone	43	8.717	8.717	(0.934)	8402	9.68477	1.937
57	Dibromochloromethane	129	8.835	8.835	(0.947)	5361	4.67454	0.9349
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	5668	5.34314	1.069
59	Chlorobenzene	112	9.356	9.356	(1.003)	23633	5.58256	1.116
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	7122	5.30447	1.061
61	Ethylbenzene	106	9.451	9.451	(1.013)	11511	5.27552	1.055
62	m + p-Xylene	106	9.557	9.557	(1.024)	25094	9.50616	1.901
M 63	Xylenes (total)	106				36416	14.0581	2.812
64	Xylene-o	106	9.889	9.889	(1.060)	11322	4.55199	0.9104
65	Styrene	104	9.900	9.900	(1.061)	15846	4.00792	0.8016
66	Bromoform	173	10.054	10.054	(1.077)	2960	4.26297	0.8526
67	Isopropylbenzene	105	10.196	10.196	(1.093)	25533	3.82501	0.7650
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	7178	5.27825	1.056
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	2962	7.02012	1.404
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	2235	5.67106	1.134
71	Bromobenzene	156	10.457	10.456	(0.925)	10209	6.25441	1.251
72	n-Propylbenzene	120	10.551	10.551	(0.933)	8096	4.26585	0.8532
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	8071	5.22731	1.045
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	21866	4.15994	0.8320

75	4-Chlorotoluene	126	10.705	10.717 (0.947)	8708	5.34140	1.068
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	18251	3.74982	0.7500

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148187.D
Report Date: 25-Feb-2010 14:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	21784	4.06012	0.8120
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	24694	3.52791	0.7056
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	20264	3.40629	0.6812
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	17595	5.67743	1.135
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	22413	6.81710	1.363
82	n-Butylbenzene	91	11.616	11.616	(1.027)	20399	3.95185	0.7904
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	16916	5.82990	1.166
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	14334	7.63382	1.527
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	6764	5.61952	1.124
87	Naphthalene	128	13.178	13.178	(1.165)	30321	7.01640	1.403
88	1,2,3-Trichlorobenzene	180	13.367	13.379	(1.182)	15839	8.56329	1.713
146	2-Methylnaphthalene	142	14.042	14.054	(1.242)	1414	12.1801	2.436
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	1142	48.0601	9.612
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.972	(0.905)	28846	8.37574	1.675
143	Methyl Acetate	43	3.404	3.392	(0.516)	18051	12.6612	2.532
144	Methylcyclohexane	83	7.143	7.143	(1.082)	10934	3.71323	0.7426
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	11164	5.04223	1.008
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1960	0.37388	0.07478(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148187.D
Report Date: 25-Feb-2010 14:09

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

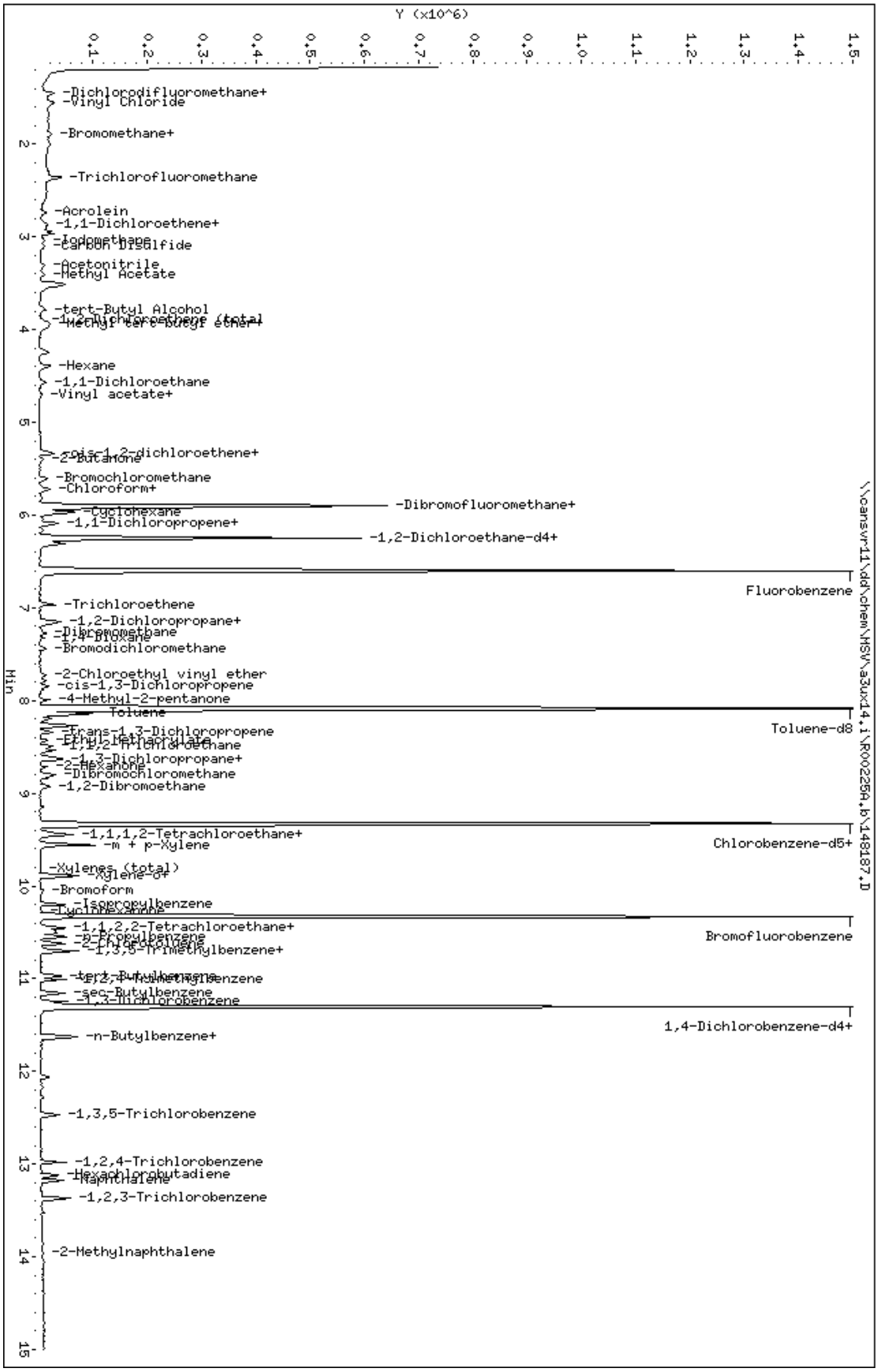
Instrument ID: a3ux14.i
Lab File ID: 148187.D
Lab Smp Id: QCMDL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,,2807

Calibration Date: 25-FEB-2010
Calibration Time: 11:54
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1478249	739125	2956498	1466939	-0.77
2 Chlorobenzene-d5	1013027	506514	2026054	1042760	2.94
3 1,4-Dichlorobenze	566289	283145	1132578	554386	-2.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148187.D
Date : 25-FEB-2010 13:46
Client ID:
Sample Info: QCMDL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148187.D
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-tert-Butyl Alcohol
-1,2-Dichloroethene (total)
-Methyl tert-butyl ether
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Cyclohexane
-1,1-Dichloropropene+
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-1,4-Dioxane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Cyclohexanone
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
Bromofluorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148209.D
Report Date: 26-Feb-2010 08:56

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,1-8260.SUB,2807,3

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
*	1 Fluorobenzene	0.0000	50.000	0.00	0-0
*	2 Chlorobenzene-d5	0.0000	50.000	0.00	0-0
*	3 1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$	6 Toluene-d8	50.000	50.347	100.69	50-150
$	7 Bromofluorobenzene	50.000	49.498	99.00	50-150
	60 1,1,1,2-Tetrachlor	5.000	5.834	116.68	70-130
	37 1,1,1-Trichloroeth	5.000	6.487	129.74	70-130
	68 1,1,2,2-Tetrachlor	5.000	5.774	115.49	70-130
	53 1,1,2-Trichloroeth	5.000	5.698	113.97	70-130
	28 1,1-Dichloroethane	5.000	6.164	123.29	70-130
	17 1,1-Dichloroethene	5.000	6.598	131.95*	70-130
	38 1,1-Dichloropropen	5.000	5.934	118.68	70-130
	88 1,2,3-Trichloroben	5.000	4.623	92.47	70-130
	70 1,2,3-Trichloropro	5.000	6.052	121.03	70-130
	85 1,2,4-Trichloroben	5.000	4.578	91.56	70-130
	77 1,2,4-Trimethylben	5.000	5.373	107.45	70-130
	84 1,2-Dibromo-3-chlo	5.000	4.059	81.19	70-130
	58 1,2-Dibromoethane	5.000	5.502	110.03	70-130
	83 1,2-Dichlorobenzen	5.000	5.748	114.97	70-130
	40 1,2-Dichloroethane	5.000	6.156	123.13	70-130
	43 1,2-Dichloropropan	5.000	5.836	116.73	70-130
	74 1,3,5-Trimethylben	5.000	5.362	107.25	70-130
	80 1,3-Dichlorobenzen	5.000	6.068	121.36	70-130
	54 1,3-Dichloropropan	5.000	5.591	111.81	70-130
	81 1,4-Dichlorobenzen	5.000	5.860	117.21	70-130
	33 2,2-Dichloropropan	5.000	6.214	124.27	70-130
	30 2-Butanone	10.000	8.828	88.28	70-130
	73 2-Chlorotoluene	5.000	6.465	129.30	70-130
	56 2-Hexanone	10.000	9.225	92.25	70-130
	75 4-Chlorotoluene	5.000	6.312	126.24	70-130
	49 4-Methyl-2-pentano	10.000	8.737	87.37	70-130
	16 Acetone	10.000	8.991	89.91	70-130
	41 Benzene	5.000	5.927	118.54	70-130
	71 Bromobenzene	5.000	6.077	121.55	70-130
	34 Bromochloromethane	5.000	5.961	119.22	70-130
	46 Bromodichlorometha	5.000	5.305	106.10	70-130
	66 Bromoform	5.000	4.687	93.74	70-130
	11 Bromomethane	5.000	8.237	164.74*	70-130

20 Carbon Disulfide	5.000	5.661	113.22	70-130
39 Carbon Tetrachlori	5.000	7.491	149.83*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148209.D
Report Date: 26-Feb-2010 08:56

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	59 Chlorobenzene	5.000	6.152	123.03	70-130
	57 Dibromochlorometha	5.000	5.082	101.64	70-130
	12 Chloroethane	5.000	6.781	135.63*	70-130
	35 Chloroform	5.000	6.050	121.01	70-130
	9 Chloromethane	5.000	6.779	135.59*	70-130
	32 cis-1,2-dichloroet	5.000	6.102	122.04	70-130
	48 cis-1,3-Dichloropr	5.000	4.671	93.43	70-130
	45 Dibromomethane	5.000	5.757	115.14	70-130
	8 Dichlorodifluorome	5.000	7.041	140.83*	70-130
	61 Ethylbenzene	5.000	5.914	118.27	70-130
	86 Hexachlorobutadien	5.000	5.168	103.37	70-130
	67 Isopropylbenzene	5.000	5.369	107.39	70-130
	62 m + p-Xylene	10.000	12.545	125.45	70-130
	21 Methylene Chloride	5.000	5.014	100.29	70-130
	87 Naphthalene	5.000	3.234	64.68*	70-130
	82 n-Butylbenzene	5.000	4.673	93.46	70-130
	72 n-Propylbenzene	5.000	5.531	110.63	70-130
	64 Xylene-o	5.000	5.795	115.91	70-130
	79 4-Isopropyltoluene	5.000	4.909	98.19	70-130
	78 sec-Butylbenzene	5.000	5.187	103.75	70-130
	65 Styrene	5.000	5.191	103.82	70-130
	76 tert-Butylbenzene	5.000	5.246	104.93	70-130
	55 Tetrachloroethene	5.000	6.364	127.27	70-130
	50 Toluene	5.000	7.015	140.30*	70-130
	25 trans-1,2-Dichloro	5.000	6.416	128.31	70-130
	51 trans-1,3-Dichloro	5.000	4.788	95.77	70-130
	42 Trichloroethene	5.000	6.069	121.39	70-130
	13 Trichlorofluoromet	5.000	6.260	125.21	70-130
	10 Vinyl Chloride	5.000	7.327	146.54*	70-130
	19 Iodomethane	5.000	6.733	134.66*	70-130
	24 Methyl tert-butyl	5.000	5.338	106.75	70-130
	15 Acrolein	50.000	43.074	86.15	70-130
	18 Freon-113	5.000	6.598	131.95*	70-130
	22 Acetonitrile	50.000	57.328	114.66	70-130
	23 Acrylonitrile	10.000	10.483	104.83	70-130
	26 Hexane	5.000	4.752	95.04	70-130
	29 tert-Butyl Alcohol	100.00	91.263	91.26	70-130
M	31 1,2-Dichloroethene	10.000	12.518	125.18	70-130
	36 Tetrahydrofuran	5.000	4.304	86.08	70-130
	47 2-Chloroethyl viny	10.000	7.996	79.96	70-130
	44 1,4-Dioxane	250.00	228.02	91.21	70-130
	52 Ethyl Methacrylate	5.000	4.403	88.07	70-130
M	63 Xylenes (total)	15.000	18.341	122.27	70-130
	69 1,4-Dichloro-2-but	5.000	4.530	90.61	70-130
	98 Cyclohexane	5.000	5.751	115.02	70-130
	141 1,3,5-Trichloroben	5.000	5.351	107.03	70-130
	143 Methyl Acetate	10.000	11.174	111.74	70-130
	144 Methylcyclohexane	5.000	5.131	102.62	70-130
	27 Vinyl acetate	5.000	3.066	61.32*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148209.D
Report Date: 26-Feb-2010 08:56

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,1-8260.SUB,2807,3

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	50.000	49.226	98.45	59-138
$ 5 1,2-Dichloroethane	50.000	48.019	96.04	61-130
$ 6 Toluene-d8	50.000	50.347	100.69	60-143
$ 7 Bromofluorobenzene	50.000	49.498	99.00	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148209.D
Report Date: 26-Feb-2010 08:56

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148209.D
Lab Smp Id: QCMRL
Inj Date : 25-FEB-2010 21:45
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMRL
Misc Info : R00225A,8260SUX14,1-8260.SUB,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Meth Date : 25-Feb-2010 12:55 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 29 QC Sample: MRL
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1179706	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.332	(1.000)	861826	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.308	(1.000)	476107	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	319891	246.128	49.226
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	319931	240.093	48.019
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1176134	251.736	50.347
$ 7 Bromofluorobenzene	95	10.327	10.326	(0.913)	436906	247.488	49.498
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	42009	35.2075	7.041(R)
9 Chloromethane	50	1.452	1.463	(0.220)	58472	33.8970	6.779(R)
10 Vinyl Chloride	62	1.570	1.570	(0.238)	47667	36.6356	7.327(R)
11 Bromomethane	94	1.890	1.889	(0.286)	26163	41.1844	8.237(R)
12 Chloroethane	64	1.996	1.996	(0.303)	26017	33.9073	6.781(R)
13 Trichlorofluoromethane	101	2.268	2.280	(0.344)	39222	31.3017	6.260
15 Acrolein	56	2.730	2.741	(0.414)	31933	215.371	43.074
16 Acetone	43	2.931	2.931	(0.444)	38909	44.9545	8.991
17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	37182	32.9885	6.598(R)
18 Freon-113	151	2.896	2.895	(0.439)	29861	32.9882	6.598(R)
19 Iodomethane	142	3.026	3.037	(0.459)	64672	33.6648	6.733(R)
20 Carbon Disulfide	76	3.097	3.108	(0.469)	91380	28.3054	5.661

21 Methylene Chloride	84	3.511	3.511 (0.532)	56193	25.0723	5.014
22 Acetonitrile	41	3.298	3.298 (0.500)	44857	286.640	57.328
23 Acrylonitrile	53	3.890	3.889 (0.589)	24337	52.4160	10.483

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148209.D
Report Date: 26-Feb-2010 08:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	78153	26.6881	5.338
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	41987	32.0783	6.416
	26 Hexane	86	4.387	4.398	(0.665)	7177	23.7606	4.752
	27 Vinyl acetate	43	4.694	4.694	(0.711)	23149	15.3296	3.066(R)
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	1579	11.7355	2.347(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	72189	30.8221	6.164
	29 tert-Butyl Alcohol	59	3.771	3.783	(0.571)	48694	456.317	91.263
	30 2-Butanone	43	5.381	5.380	(0.815)	26684	44.1406	8.828
M	31 1,2-Dichloroethene (total)	96				82905	62.5884	12.518
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	40918	30.5101	6.102
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	28470	31.0676	6.214
	34 Bromochloromethane	128	5.605	5.605	(0.849)	19429	29.8060	5.961
	35 Chloroform	83	5.724	5.723	(0.867)	64947	30.2518	6.050
	36 Tetrahydrofuran	42	5.688	5.676	(0.862)	8427	21.5212	4.304
	37 1,1,1-Trichloroethane	97	5.901	5.913	(0.894)	50351	32.4352	6.487
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	48299	29.6701	5.934
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	50539	37.4572	7.491(R)
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	48912	30.7823	6.156
	41 Benzene	78	6.303	6.303	(0.955)	151106	29.6339	5.927
	42 Trichloroethene	130	6.966	6.966	(1.056)	42647	30.3463	6.069
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	37279	29.1826	5.836
	44 1,4-Dioxane	88	7.309	7.309	(1.108)	12017	1140.11	228.02
	45 Dibromomethane	93	7.274	7.273	(1.102)	18726	28.7853	5.757
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	34977	26.5240	5.305
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	18890	39.9820	7.996
	48 cis-1,3-Dichloropropene	75	7.842	7.841	(1.188)	37882	23.3570	4.671
	49 4-Methyl-2-pentanone	43	7.996	7.995	(0.857)	45464	43.6837	8.737
	50 Toluene	91	8.138	8.149	(0.872)	178536	35.0738	7.015(R)
	51 trans-1,3-Dichloropropene	75	8.339	8.338	(0.894)	32029	23.9420	4.788
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	23556	22.0164	4.403
	53 1,1,2-Trichloroethane	97	8.493	8.492	(0.910)	25872	28.4917	5.698
	54 1,3-Dichloropropane	76	8.635	8.634	(0.925)	42527	27.9537	5.591
	55 Tetrachloroethene	164	8.623	8.622	(0.924)	34193	31.8175	6.364
	56 2-Hexanone	43	8.717	8.717	(0.934)	33073	46.1259	9.225
	57 Dibromochloromethane	129	8.836	8.835	(0.947)	24086	25.4111	5.082
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	24117	27.5077	5.502
	59 Chlorobenzene	112	9.356	9.356	(1.003)	107616	30.7579	6.152
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	32370	29.1707	5.834
	61 Ethylbenzene	106	9.451	9.451	(1.013)	53323	29.5687	5.914
	62 m + p-Xylene	106	9.558	9.557	(1.024)	136854	62.7275	12.545
M	63 Xylenes (total)	106				196421	91.7041	18.341
	64 Xylene-o	106	9.889	9.889	(1.060)	59567	28.9767	5.795
	65 Styrene	104	9.901	9.900	(1.061)	84810	25.9544	5.191
	66 Bromoform	173	10.054	10.054	(1.077)	13448	23.4338	4.687
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	148118	26.8475	5.369
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	33719	28.8715	5.774
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	8208	22.6519	4.530
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	10241	30.2577	6.052
	71 Bromobenzene	156	10.457	10.456	(0.925)	42597	30.3872	6.077
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	45077	27.6565	5.531
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	42864	32.3259	6.465
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	121036	26.8127	5.362

75 4-Chlorotoluene	126	10.705	10.717 (0.947)	44186	31.5594	6.312
76 tert-Butylbenzene	119	10.977	10.977 (0.971)	109646	26.2316	5.246

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148209.D
Report Date: 26-Feb-2010 08:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	123781	26.8635	5.373
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	155916	25.9373	5.187
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	125412	24.5472	4.909
80	1,3-Dichlorobenzene	146	11.250	11.249	(0.995)	80752	30.3405	6.068
81	1,4-Dichlorobenzene	146	11.321	11.320	(1.001)	82735	29.3020	5.860
82	n-Butylbenzene	91	11.616	11.616	(1.027)	103581	23.3657	4.673
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	71623	28.7424	5.748
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	4091	20.2972	4.059
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	36912	22.8902	4.578
87	Naphthalene	128	13.178	13.178	(1.165)	60011	16.1700	3.234(R)
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	26713	25.8420	5.168
88	1,2,3-Trichlorobenzene	180	13.368	13.379	(1.182)	36721	23.1172	4.623
98	Cyclohexane	56	5.960	5.972	(0.903)	79643	28.7557	5.751
143	Methyl Acetate	43	3.393	3.392	(0.514)	64058	55.8707	11.174
144	Methylcyclohexane	83	7.144	7.143	(1.082)	60751	25.6545	5.131
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	50877	26.7567	5.351

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148209.D
Report Date: 26-Feb-2010 08:56

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

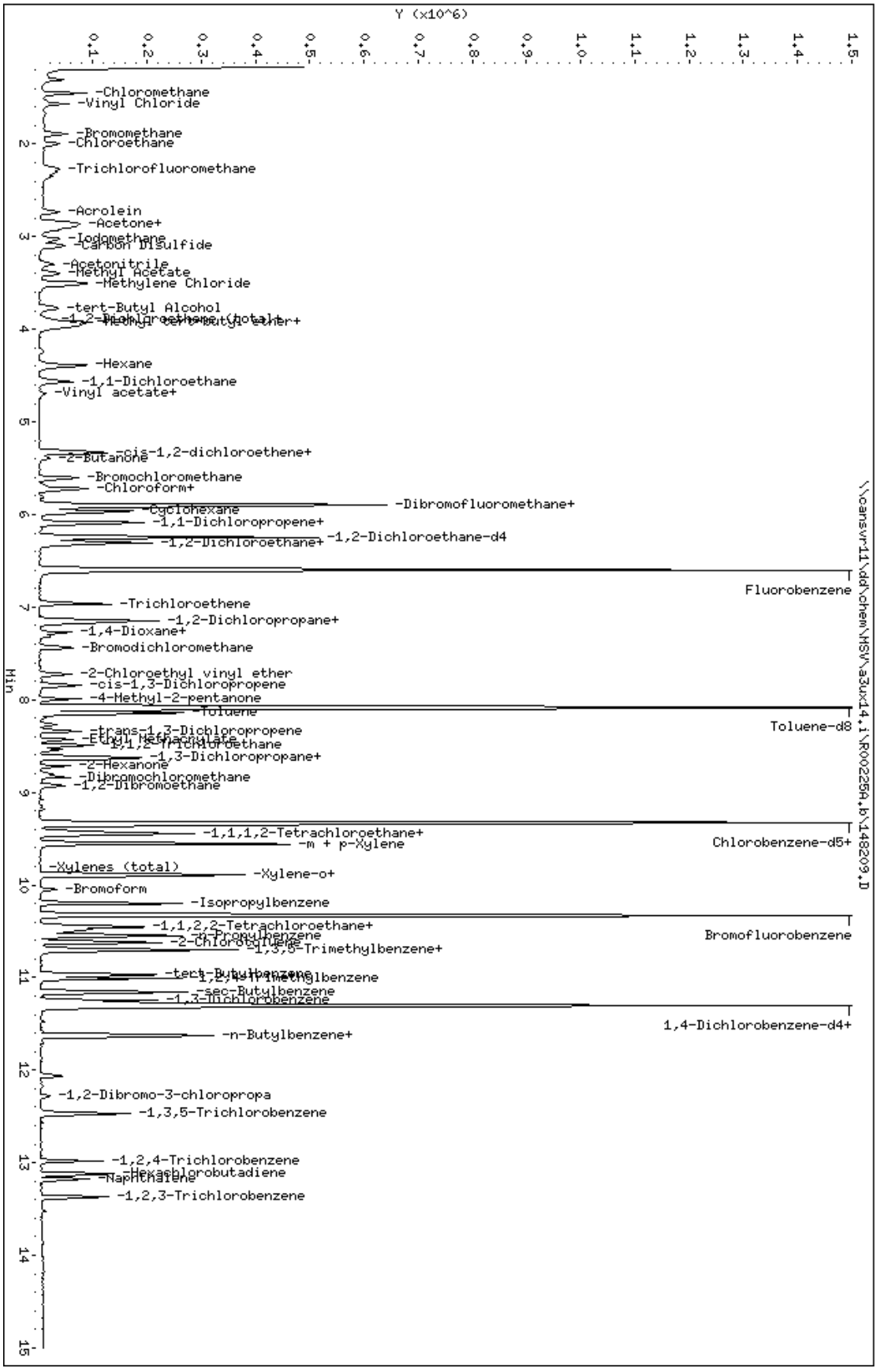
Instrument ID: a3ux14.i
Lab File ID: 148209.D
Lab Smp Id: QCMRL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,1-8260.SUB,2807,3

Calibration Date: 25-FEB-2010
Calibration Time: 11:54
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1478249	739125	2956498	1179706	-20.20
2 Chlorobenzene-d5	1013027	506514	2026054	861826	-14.93
3 1,4-Dichlorobenze	566289	283145	1132578	476107	-15.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.01
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148209.D
Date : 25-FEB-2010 21:45
Client ID:
Sample Info: QCHRL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
\\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148209.D
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-1,2-Dichloroethane-d4
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
Bromofluorobenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148210.D
Report Date: 26-Feb-2010 08:56

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148210.D
Lab Smp Id: QCMDL
Inj Date : 25-FEB-2010 22:07
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMDL
Misc Info : R00225A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Meth Date : 25-Feb-2010 12:55 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1210598	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.332	(1.000)	895657	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.308	(1.000)	494419	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	335534	251.576	50.315
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	340464	248.982	49.796
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1217495	250.746	50.149
$ 7 Bromofluorobenzene	95	10.326	10.326	(0.913)	462367	252.210	50.442
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	17595	14.3700	2.874
9 Chloromethane	50	1.452	1.463	(0.220)	24563	13.8761	2.775
10 Vinyl Chloride	62	1.558	1.570	(0.236)	21315	15.9641	3.193
11 Bromomethane	94	1.890	1.889	(0.286)	12273	18.8265	3.765
12 Chloroethane	64	1.996	1.996	(0.303)	12591	15.9908	3.198
13 Trichlorofluoromethane	101	2.268	2.280	(0.344)	15879	12.3491	2.470
15 Acrolein	56	2.730	2.741	(0.414)	16117	105.927	21.185
16 Acetone	43	2.931	2.931	(0.444)	30177	17.5917	3.518
17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	16147	13.9603	2.792
18 Freon-113	151	2.895	2.895	(0.439)	14403	15.5053	3.101
19 Iodomethane	142	3.026	3.037	(0.459)	27350	13.8736	2.775
20 Carbon Disulfide	76	3.097	3.108	(0.469)	37937	11.4513	2.290
21 Methylene Chloride	84	3.511	3.511	(0.532)	33760	5.10433	1.021

22 Acetonitrile	41	3.298	3.298 (0.500)	24446	152.226	30.445
23 Acrylonitrile	53	3.889	3.889 (0.589)	12291	25.7963	5.159

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148210.D
Report Date: 26-Feb-2010 08:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	35636	11.8586	2.372
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	18635	13.8739	2.775
	26 Hexane	86	4.398	4.398	(0.666)	3575	11.5336	2.307
	27 Vinyl acetate	43	4.694	4.694	(0.711)	10299	6.64611	1.329
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	1105	8.00305	1.601(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	32192	13.3941	2.679
	29 tert-Butyl Alcohol	59	3.759	3.783	(0.570)	26771	244.472	48.894
	30 2-Butanone	43	5.392	5.380	(0.817)	15244	24.5731	4.915
M	31 1,2-Dichloroethene (total)	96				36355	26.7495	5.350
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	17720	12.8756	2.575
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	12326	13.1074	2.621
	34 Bromochloromethane	128	5.605	5.605	(0.849)	9589	14.3351	2.867
	35 Chloroform	83	5.723	5.723	(0.867)	28910	13.1224	2.624
	36 Tetrahydrofuran	42	5.688	5.676	(0.862)	4221	10.5047	2.101
	37 1,1,1-Trichloroethane	97	5.901	5.913	(0.894)	22588	14.1795	2.836
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	20573	12.3155	2.463
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	21204	15.3144	3.063
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	22071	13.5357	2.707
	41 Benzene	78	6.303	6.303	(0.955)	67470	12.8941	2.579
	42 Trichloroethene	130	6.966	6.966	(1.056)	18868	13.0833	2.617
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	15456	11.7905	2.358
	44 1,4-Dioxane	88	7.321	7.309	(1.109)	5361	495.645	99.129
	45 Dibromomethane	93	7.274	7.273	(1.102)	8855	13.2644	2.653
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	15913	11.7593	2.352
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	9222	23.9044	4.781
	48 cis-1,3-Dichloropropene	75	7.842	7.841	(1.188)	15312	9.20005	1.840
	49 4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	20283	18.7526	3.750
	50 Toluene	91	8.137	8.149	(0.872)	90205	17.0516	3.410
	51 trans-1,3-Dichloropropene	75	8.339	8.338	(0.893)	12516	9.00243	1.800
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	11370	12.5569	2.511
	53 1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	12369	13.1069	2.621
	54 1,3-Dichloropropane	76	8.634	8.634	(0.925)	20137	12.7364	2.547
	55 Tetrachloroethene	164	8.623	8.622	(0.924)	14747	13.2041	2.641
	56 2-Hexanone	43	8.717	8.717	(0.934)	15321	20.5606	4.112
	57 Dibromochloromethane	129	8.836	8.835	(0.947)	11456	11.6297	2.326
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	11318	12.4217	2.484
	59 Chlorobenzene	112	9.356	9.356	(1.003)	48232	13.2646	2.653
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	14968	12.9792	2.596
	61 Ethylbenzene	106	9.451	9.451	(1.013)	22519	12.0156	2.403
	62 m + p-Xylene	106	9.557	9.557	(1.024)	53489	23.5908	4.718
M	63 Xylenes (total)	106				78253	35.1823	7.036
	64 Xylene-o	106	9.889	9.889	(1.060)	24764	11.5915	2.318
	65 Styrene	104	9.901	9.900	(1.061)	34202	10.0715	2.014
	66 Bromoform	173	10.054	10.054	(1.077)	6327	10.6087	2.122
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	58987	10.2880	2.058
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	16189	13.3482	2.670
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	4129	10.9729	2.194
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	4698	13.3665	2.673
	71 Bromobenzene	156	10.457	10.456	(0.925)	19587	13.4551	2.691
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	18610	10.9951	2.199
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	18533	13.4590	2.692
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	50179	10.7043	2.141

75	4-Chlorotoluene	126	10.705	10.717 (0.947)	19188	13.1972	2.639
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	43891	10.1115	2.022

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148210.D
Report Date: 26-Feb-2010 08:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	46149	9.64451	1.929
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	63569	10.1833	2.037
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	50550	9.52783	1.906
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	36087	13.0566	2.611
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	38930	13.2770	2.655
82	n-Butylbenzene	91	11.616	11.616	(1.027)	44675	9.70449	1.941
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	33545	12.9631	2.593
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	2128	10.1669	2.033
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	19464	11.6231	2.325
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	12706	11.8364	2.367
87	Naphthalene	128	13.178	13.178	(1.165)	31496	8.17229	1.634
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	17720	10.7422	2.148
146	2-Methylnaphthalene	142	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.960	5.972	(0.903)	40270	14.1687	2.834
143	Methyl Acetate	43	3.392	3.392	(0.514)	31985	27.1851	5.437
144	Methylcyclohexane	83	7.143	7.143	(1.082)	25902	10.6590	2.132
141	1,3,5-Trichlorobenzene	180	12.480	12.468	(1.104)	23437	11.8692	2.374
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	586	0.12534	0.02507(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148210.D
Report Date: 26-Feb-2010 08:56

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

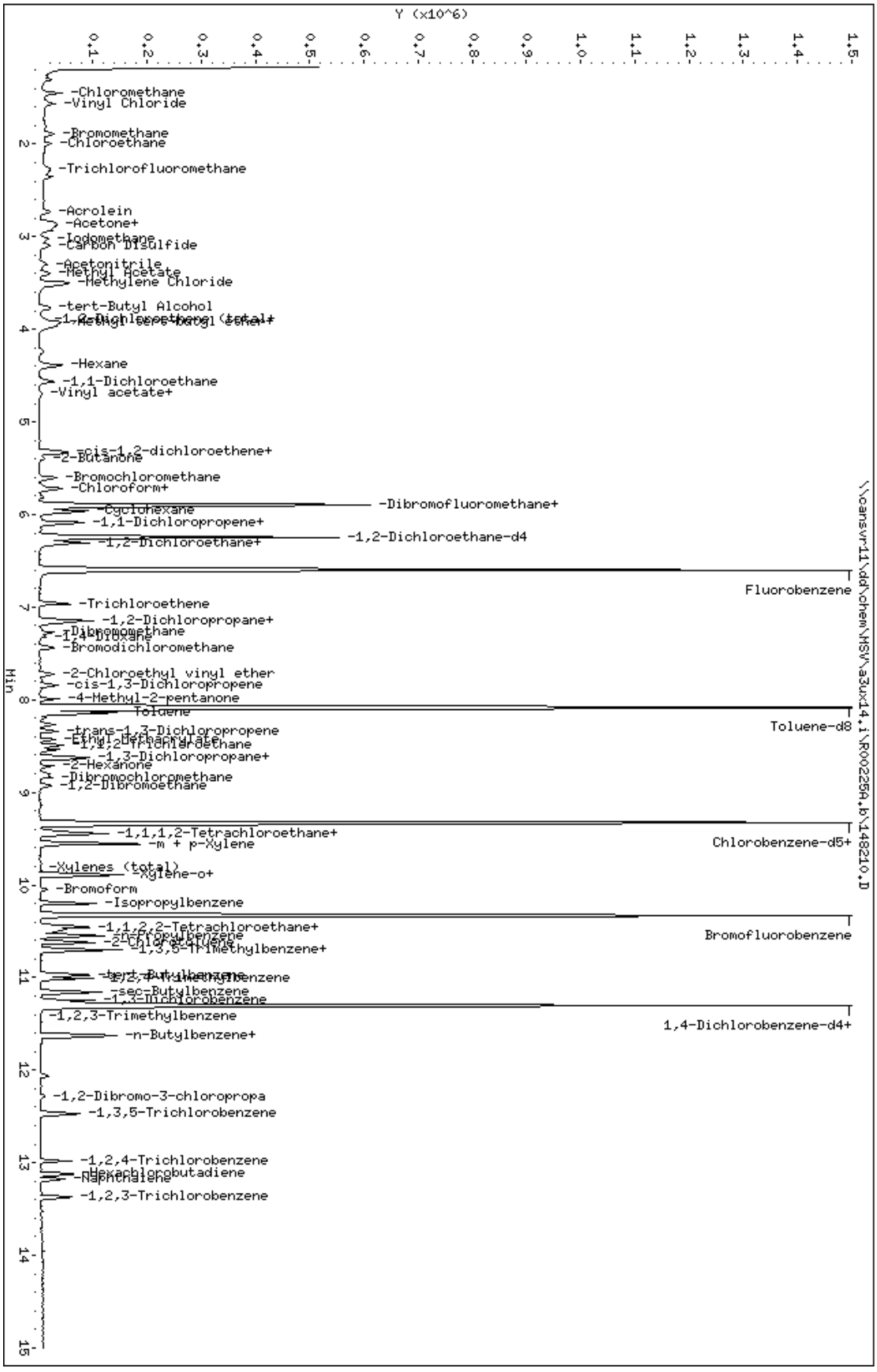
Instrument ID: a3ux14.i
Lab File ID: 148210.D
Lab Smp Id: QCMDL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,,2807

Calibration Date: 25-FEB-2010
Calibration Time: 11:54
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1478249	739125	2956498	1210598	-18.11
2 Chlorobenzene-d5	1013027	506514	2026054	895657	-11.59
3 1,4-Dichlorobenze	566289	283145	1132578	494419	-12.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148210.D
Date : 25-FEB-2010 22:07
Client ID:
Sample Info: QCMDL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
\\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148210.D
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-1,4-Dioxane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
Bromofluorobenzene
-1,2,3-Trimethylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Report Date: 26-Feb-2010 12:32

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Start Cal Date: 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
14-JAN-2010 17:14	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
08-JAN-2010 18:18	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147289.D
14-JAN-2010 13:21	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Cal Level: 2 , Cal Amount: 10.00000		
14-JAN-2010 16:50	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
08-JAN-2010 17:55	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147288.D
14-JAN-2010 12:59	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Cal Level: 3 , Cal Amount: 25.00000		
14-JAN-2010 16:27	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
08-JAN-2010 17:33	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147287.D
14-JAN-2010 12:36	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Cal Level: 4 , Cal Amount: 50.00000		
14-JAN-2010 16:03	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
08-JAN-2010 17:11	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147286.D
14-JAN-2010 12:14	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Cal Level: 5 , Cal Amount: 100.00000		
14-JAN-2010 15:39	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
08-JAN-2010 16:49	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147285.D

14-JAN-2010 11:51	1-8260	
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Cal Level: 6 , Cal Amount: 250.00000		
14-JAN-2010 15:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D		
08-JAN-2010 16:27	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147284.D		
14-JAN-2010 11:29	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D		

Cal Level: 7 , Cal Amount: 500.00000		
14-JAN-2010 14:53	BROMO	
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08-JAN-2010 16:06	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147283.D		
14-JAN-2010 11:07	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D		

Cal Level: 8 , Cal Amount: 1000.00000		
14-JAN-2010 14:30	BROMO	
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08-JAN-2010 15:44	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147282.D		
14-JAN-2010 10:45	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

26-FEB-2010 11:30	1-8260	
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26-FEB-2010 11:52	3-IX	
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Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 26-FEB-2010 11:30
Lab File ID: 148213.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.27543	0.27069	0.27069	0.010	1.72113	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.28239	0.26661	0.26661	0.010	5.58832	50.00000	Averaged	
$ 6 Toluene-d8	1.35529	1.37865	1.37865	0.010	-1.72343	50.00000	Averaged	
$ 7 Bromofluorobenzene	0.92698	0.92869	0.92869	0.010	-0.18435	50.00000	Averaged	
8 Dichlorodifluoromethane	0.25286	0.27186	0.27186	0.010	-7.51616	50.00000	Averaged	
9 Chloromethane	0.36556	0.35398	0.35398	0.100	3.16541	50.00000	Averaged	
10 Vinyl Chloride	0.27573	0.29719	0.29719	0.010	-7.78235	20.00000	Averaged	
11 Bromomethane	0.13462	0.14287	0.14287	0.010	-6.12836	50.00000	Averaged	
12 Chloroethane	0.16260	0.16650	0.16650	0.010	-2.39911	50.00000	Averaged	
13 Trichlorofluoromethane	0.26554	0.31673	0.31673	0.010	-19.27769	50.00000	Averaged	
15 Acrolein	0.03142	0.02392	0.02392	0.010	23.87271	50.00000	Averaged	
16 Acetone	500	518	0.08611	0.010	-3.59656	0.000e+000	Wt Linear	
17 1,1-Dichloroethene	0.23886	0.24094	0.24094	0.010	-0.87369	20.00000	Averaged	
18 Freon-113	0.19183	0.21363	0.21363	0.010	-11.36529	50.00000	Averaged	
19 Iodomethane	0.40711	0.42654	0.42654	0.010	-4.77454	50.00000	Averaged	
20 Carbon Disulfide	0.68415	0.67971	0.67971	0.010	0.64890	50.00000	Averaged	
21 Methylene Chloride	250	253	0.27269	0.010	-1.06500	0.000e+000	Wt Linear	
22 Acetonitrile	0.03316	0.03158	0.03158	0.010	4.78171	50.00000	Averaged	
23 Acrylonitrile	0.09839	0.09280	0.09280	0.010	5.68898	50.00000	Averaged	
24 Methyl tert-butyl ether	0.62058	0.66574	0.66574	0.010	-7.27752	50.00000	Averaged	
25 trans-1,2-Dichloroethene	0.27738	0.28568	0.28568	0.010	-2.99432	50.00000	Averaged	
26 Hexane	0.06401	0.06467	0.06467	0.010	-1.03770	20.00000	Averaged	
27 Vinyl acetate	0.32001	0.20636	0.20636	0.010	35.51575	50.00000	Averaged	
154 Vinyl Acetate**2nd**	0.02851	0.01792	0.01792	0.010	37.14999	50.00000	Averaged	
28 1,1-Dichloroethane	0.49634	0.51150	0.51150	0.100	-3.05461	50.00000	Averaged	
29 tert-Butyl Alcohol	0.02261	0.02179	0.02179	0.010	3.66053	50.00000	Averaged	
30 2-Butanone	0.12811	0.10533	0.10533	0.010	17.78452	50.00000	Averaged	
M 31 1,2-Dichloroethene (total)	0.28079	0.28947	0.28947	0.010	-3.08950	50.00000	Averaged	
32 cis-1,2-dichloroethene	0.28421	0.29325	0.29325	0.010	-3.18239	50.00000	Averaged	
33 2,2-Dichloropropane	0.19420	0.20413	0.20413	0.010	-5.11261	50.00000	Averaged	
34 Bromochloromethane	0.13814	0.14146	0.14146	0.010	-2.40276	50.00000	Averaged	
35 Chloroform	0.45496	0.46400	0.46400	0.010	-1.98583	20.00000	Averaged	
36 Tetrahydrofuran	0.08298	0.07041	0.07041	0.010	15.15232	50.00000	Averaged	
37 1,1,1-Trichloroethane	0.32897	0.36489	0.36489	0.010	-10.91992	50.00000	Averaged	
38 1,1-Dichloropropene	0.34497	0.36887	0.36887	0.010	-6.92564	50.00000	Averaged	
39 Carbon Tetrachloride	0.28593	0.37016	0.37016	0.010	-29.45949	50.00000	Averaged	
40 1,2-Dichloroethane	0.33673	0.33339	0.33339	0.010	0.99184	50.00000	Averaged	
41 Benzene	1.08058	1.06668	1.06668	0.010	1.28667	50.00000	Averaged	
42 Trichloroethene	0.29782	0.30175	0.30175	0.010	-1.32024	50.00000	Averaged	
43 1,2-Dichloropropane	0.27071	0.27117	0.27117	0.010	-0.16799	20.00000	Averaged	
44 1,4-Dioxane	0.00223	0.00206	0.00206	0.010	7.67268	50.00000	Averaged	<-
45 Dibromomethane	0.13786	0.13496	0.13496	0.010	2.10290	50.00000	Averaged	
46 Bromodichloromethane	0.27945	0.29317	0.29317	0.010	-4.90828	50.00000	Averaged	

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 26-FEB-2010 11:30
Lab File ID: 148213.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
47 2-Chloroethyl vinyl ether	500	423	0.10790	0.010	15.47530	0.000e+000	Wt Linear
48 cis-1,3-Dichloropropene	0.34370	0.34187	0.34187	0.010	0.53278	50.00000	Averaged
49 4-Methyl-2-pentanone	0.30190	0.28703	0.28703	0.010	4.92758	50.00000	Averaged
50 Toluene	1.47660	1.56770	1.56770	0.010	-6.16967	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.38806	0.38169	0.38169	0.010	1.64287	50.00000	Averaged
52 Ethyl Methacrylate	250	213	0.32267	0.010	14.85109	0.000e+000	Wt Linear
53 1,1,2-Trichloroethane	0.26341	0.26203	0.26203	0.010	0.52544	50.00000	Averaged
54 1,3-Dichloropropane	0.44131	0.43925	0.43925	0.010	0.46801	50.00000	Averaged
55 Tetrachloroethene	0.31174	0.32727	0.32727	0.010	-4.98302	50.00000	Averaged
56 2-Hexanone	0.20799	0.19610	0.19610	0.010	5.71807	50.00000	Averaged
57 Dibromochloromethane	0.27496	0.29069	0.29069	0.010	-5.72278	50.00000	Averaged
58 1,2-Dibromoethane	0.25432	0.25023	0.25023	0.010	1.60811	50.00000	Averaged
59 Chlorobenzene	1.01494	1.03200	1.03200	0.300	-1.68031	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.32190	0.35109	0.35109	0.010	-9.06826	50.00000	Averaged
61 Ethylbenzene	0.52312	0.56562	0.56562	0.010	-8.12287	20.00000	Averaged
62 m + p-Xylene	0.63288	0.70550	0.70550	0.010	-11.47412	50.00000	Averaged
M 63 Xylenes (total)	0.62069	0.69387	0.69387	0.010	-11.79024	50.00000	Averaged
64 Xylene-o	0.59632	0.67063	0.67063	0.010	-12.46122	50.00000	Averaged
65 Styrene	0.94789	1.07078	1.07078	0.010	-12.96518	50.00000	Averaged
66 Bromoform	0.16647	0.17537	0.17537	0.100	-5.34426	50.00000	Averaged
67 Isopropylbenzene	1.60039	1.81102	1.81102	0.010	-13.16125	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	0.61326	0.61718	0.61718	0.300	-0.63991	50.00000	Averaged
69 1,4-Dichloro-2-butene	0.19027	0.18270	0.18270	0.010	3.98058	50.00000	Averaged
70 1,2,3-Trichloropropane	0.17772	0.17656	0.17656	0.010	0.65581	50.00000	Averaged
71 Bromobenzene	0.73608	0.76225	0.76225	0.010	-3.55497	50.00000	Averaged
72 n-Propylbenzene	0.85584	0.93233	0.93233	0.010	-8.93701	50.00000	Averaged
73 2-Chlorotoluene	0.69627	0.79087	0.79087	0.010	-13.58725	50.00000	Averaged
74 1,3,5-Trimethylbenzene	2.37034	2.66892	2.66892	0.010	-12.59644	50.00000	Averaged
75 4-Chlorotoluene	0.73518	0.82117	0.82117	0.010	-11.69677	50.00000	Averaged
76 tert-Butylbenzene	2.19484	2.46401	2.46401	0.010	-12.26355	50.00000	Averaged
77 1,2,4-Trimethylbenzene	2.41951	2.70204	2.70204	0.010	-11.67744	50.00000	Averaged
78 sec-Butylbenzene	3.15647	3.46751	3.46751	0.010	-9.85388	50.00000	Averaged
79 4-Isopropyltoluene	2.68270	2.87650	2.87650	0.010	-7.22401	50.00000	Averaged
80 1,3-Dichlorobenzene	1.39754	1.45352	1.45352	0.010	-4.00507	50.00000	Averaged
81 1,4-Dichlorobenzene	1.48261	1.45140	1.45140	0.010	2.10505	50.00000	Averaged
82 n-Butylbenzene	2.32775	2.48752	2.48752	0.010	-6.86377	50.00000	Averaged
83 1,2-Dichlorobenzene	1.30847	1.33318	1.33318	0.010	-1.88817	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	0.10583	0.10110	0.10110	0.010	4.47757	50.00000	Averaged
85 1,2,4-Trichlorobenzene	0.84675	0.82413	0.82413	0.010	2.67049	50.00000	Averaged
87 Naphthalene	1.94875	1.77460	1.77460	0.010	8.93656	50.00000	Averaged
86 Hexachlorobutadiene	0.54279	0.51170	0.51170	0.010	5.72801	50.00000	Averaged
88 1,2,3-Trichlorobenzene	0.83409	0.76867	0.76867	0.010	7.84395	50.00000	Averaged
98 Cyclohexane	0.58694	0.63397	0.63397	0.010	-8.01428	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 26-FEB-2010 11:30
Lab File ID: 148213.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
143 Methyl Acetate	0.24297	0.23434	0.23434	0.010	3.55354	50.00000	Averaged
144 Methylcyclohexane	0.50183	0.57209	0.57209	0.010	-14.00034	50.00000	Averaged
141 1,3,5-Trichlorobenzene	0.99845	1.00224	1.00224	0.010	-0.37998	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Lab Smp Id: 250NG-CC
Inj Date : 26-FEB-2010 11:30
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-CC
Misc Info : R00226A,8260SUX14,1-8260.SUB,2807,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1312011	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	965181	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	531218	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	355144	250.000	245.70
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	349789	250.000	236.03
$	6 Toluene-d8	98	8.090	8.090	(0.867)	1330643	250.000	254.31
$	7 Bromofluorobenzene	95	10.327	10.327	(0.913)	493336	250.000	250.46
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	356685	250.000	268.79
	9 Chloromethane	50	1.452	1.452	(0.220)	464431	250.000	242.09
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	389911	250.000	269.46
	11 Bromomethane	94	1.878	1.878	(0.285)	187452	250.000	265.32
	12 Chloroethane	64	1.996	1.996	(0.303)	218456	250.000	256.00
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	415552	250.000	298.19
	15 Acrolein	56	2.730	2.730	(0.414)	313832	2500.00	1903.2
	16 Acetone	43	2.931	2.931	(0.444)	225960	500.000	517.98
	17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	316120	250.000	252.18
	18 Freon-113	151	2.896	2.896	(0.439)	280285	250.000	278.41
	19 Iodomethane	142	3.026	3.026	(0.459)	559629	250.000	261.94
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	891782	250.000	248.38

21 Methylene Chloride	84	3.499	3.499 (0.530)	357776	250.000	252.66
22 Acetonitrile	41	3.286	3.286 (0.498)	414302	2500.00	2380.4
23 Acrylonitrile	53	3.890	3.890 (0.589)	243500	500.000	471.56

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Report Date: 26-Feb-2010 12:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	873455	250.000	268.19
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	374818	250.000	257.48
	26 Hexane	86	4.387	4.387	(0.665)	84854	250.000	252.59
	27 Vinyl acetate	43	4.694	4.694	(0.711)	270744	250.000	161.21
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	23512	250.000	157.12(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	671089	250.000	257.64
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	571672	5000.00	4817.0
	30 2-Butanone	43	5.380	5.380	(0.815)	276376	500.000	411.08
M	31 1,2-Dichloroethene (total)	96				759569	500.000	
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	384751	250.000	257.96
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	267817	250.000	262.78
	34 Bromochloromethane	128	5.605	5.605	(0.849)	185593	250.000	256.01
	35 Chloroform	83	5.724	5.724	(0.867)	608768	250.000	254.96
	36 Tetrahydrofuran	42	5.676	5.676	(0.860)	92374	250.000	212.12
	37 1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	478745	250.000	277.30
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	483955	250.000	267.31
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	485656	250.000	323.65
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	437410	250.000	247.52
	41 Benzene	78	6.303	6.303	(0.955)	1399497	250.000	246.78
	42 Trichloroethene	130	6.966	6.966	(1.056)	395898	250.000	253.30
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	355773	250.000	250.42
	44 1,4-Dioxane	88	7.309	7.309	(1.108)	135286	12500.0	11541
	45 Dibromomethane	93	7.274	7.274	(1.102)	177071	250.000	244.74
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	384642	250.000	262.27
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	283139	500.000	422.62
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	448538	250.000	248.67
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	554066	500.000	475.36
	50 Toluene	91	8.138	8.138	(0.872)	1513117	250.000	265.42
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	368399	250.000	245.89
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	311437	250.000	212.87
	53 1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	252902	250.000	248.69
	54 1,3-Dichloropropane	76	8.635	8.635	(0.925)	423952	250.000	248.83
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	315878	250.000	262.46
	56 2-Hexanone	43	8.717	8.717	(0.934)	378544	500.000	471.41
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	280569	250.000	264.31
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	241522	250.000	245.98
	59 Chlorobenzene	112	9.356	9.356	(1.003)	996062	250.000	254.20
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	338862	250.000	272.67
	61 Ethylbenzene	106	9.451	9.451	(1.013)	545921	250.000	270.31
	62 m + p-Xylene	106	9.557	9.557	(1.024)	1361862	500.000	557.37
	64 Xylene-o	106	9.889	9.889	(1.060)	647276	250.000	281.15
	65 Styrene	104	9.901	9.901	(1.061)	1033498	250.000	282.41
	66 Bromoform	173	10.054	10.054	(1.077)	169260	250.000	263.36
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	1747958	250.000	282.90
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	327857	250.000	251.60
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	97051	250.000	240.05
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	93790	250.000	248.36
	71 Bromobenzene	156	10.457	10.457	(0.925)	404919	250.000	258.89
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	495269	250.000	272.34
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	420126	250.000	283.97
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1417776	250.000	281.49
	75 4-Chlorotoluene	126	10.717	10.717	(0.948)	436219	250.000	279.24

76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1308926	250.000	280.66
77	1,2,4-Trimethylbenzene	105	11.013	11.013 (0.974)	1435374	250.000	279.19

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
78 sec-Butylbenzene	105	11.155	11.155	(0.986)	1842003	250.000	274.63
79 4-Isopropyltoluene	119	11.273	11.273	(0.997)	1528047	250.000	268.06
80 1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	772134	250.000	260.01
81 1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	771012	250.000	244.74
82 n-Butylbenzene	91	11.616	11.616	(1.027)	1321417	250.000	267.16
83 1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	708208	250.000	254.72
84 1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	53704	250.000	238.81
85 1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	437795	250.000	243.32
87 Naphthalene	128	13.178	13.178	(1.165)	942700	250.000	227.66
86 Hexachlorobutadiene	225	13.131	13.131	(1.161)	271824	250.000	235.68
88 1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	408330	250.000	230.39
98 Cyclohexane	56	5.960	5.960	(0.903)	831781	250.000	270.04
143 Methyl Acetate	43	3.393	3.393	(0.514)	614907	500.000	482.23
144 Methylcyclohexane	83	7.144	7.144	(1.082)	750584	250.000	285.00
141 1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	532408	250.000	250.95

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

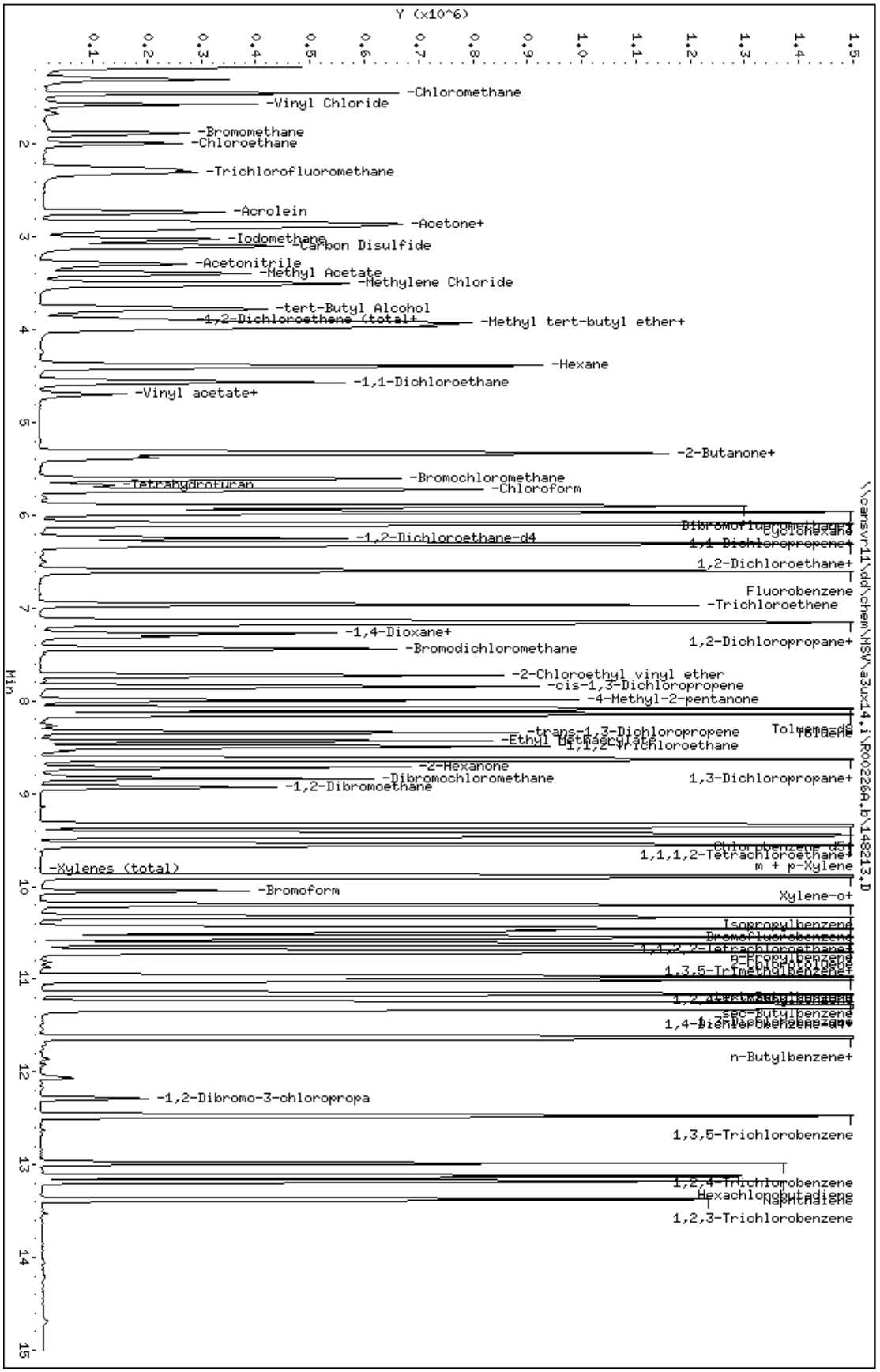
Instrument ID: a3ux14.i
Lab File ID: 148213.D
Lab Smp Id: 250NG-CC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,2

Calibration Date: 26-FEB-2010
Calibration Time: 11:52
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1360516	680258	2721032	1312011	-3.57
2 Chlorobenzene-d5	954083	477042	1908166	965181	1.16
3 1,4-Dichlorobenze	468006	234003	936012	531218	13.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Date : 26-FEB-2010 11:30
Client ID:
Sample Info: 250NG-CC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
*	1 Fluorobenzene	0.0000	50.000	0.00	0-0
*	2 Chlorobenzene-d5	0.0000	50.000	0.00	0-0
*	3 1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$	6 Toluene-d8	50.000	50.207	100.41	50-150
$	7 Bromofluorobenzene	50.000	50.804	101.61	50-150
	60 1,1,1,2-Tetrachlor	5.000	5.495	109.90	70-130
	37 1,1,1-Trichloroeth	5.000	6.017	120.35	70-130
	68 1,1,2,2-Tetrachlor	5.000	5.549	110.98	70-130
	53 1,1,2-Trichloroeth	5.000	5.350	107.01	70-130
	28 1,1-Dichloroethane	5.000	5.685	113.70	70-130
	17 1,1-Dichloroethene	5.000	5.868	117.37	70-130
	38 1,1-Dichloropropen	5.000	5.701	114.02	70-130
	88 1,2,3-Trichloroben	5.000	6.260	125.20	70-130
	70 1,2,3-Trichloropro	5.000	5.612	112.24	70-130
	85 1,2,4-Trichloroben	5.000	5.886	117.72	70-130
	77 1,2,4-Trimethylben	5.000	5.240	104.79	70-130
	84 1,2-Dibromo-3-chlo	5.000	4.952	99.04	70-130
	58 1,2-Dibromoethane	5.000	5.482	109.64	70-130
	83 1,2-Dichlorobenzen	5.000	5.873	117.46	70-130
	40 1,2-Dichloroethane	5.000	5.653	113.07	70-130
	43 1,2-Dichloropropan	5.000	5.334	106.67	70-130
	74 1,3,5-Trimethylben	5.000	5.377	107.54	70-130
	80 1,3-Dichlorobenzen	5.000	5.712	114.23	70-130
	54 1,3-Dichloropropan	5.000	5.384	107.67	70-130
	81 1,4-Dichlorobenzen	5.000	5.885	117.70	70-130
	33 2,2-Dichloropropan	5.000	5.371	107.41	70-130
	30 2-Butanone	10.000	9.361	93.61	70-130
	73 2-Chlorotoluene	5.000	6.016	120.31	70-130
	56 2-Hexanone	10.000	9.684	96.85	70-130
	75 4-Chlorotoluene	5.000	6.210	124.20	70-130
	49 4-Methyl-2-pentano	10.000	9.270	92.70	70-130
	16 Acetone	10.000	7.957	79.57	70-130
	41 Benzene	5.000	5.497	109.93	70-130
	71 Bromobenzene	5.000	6.129	122.59	70-130
	34 Bromochloromethane	5.000	5.909	118.17	70-130
	46 Bromodichlorometha	5.000	5.093	101.87	70-130
	66 Bromoform	5.000	5.008	100.15	70-130
	11 Bromomethane	5.000	6.653	133.06*	70-130

20 Carbon Disulfide	5.000	5.312	106.24	70-130
39 Carbon Tetrachlori	5.000	6.762	135.24*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	59 Chlorobenzene	5.000	5.781	115.62	70-130
	57 Dibromochlorometha	5.000	4.881	97.61	70-130
	12 Chloroethane	5.000	5.575	111.50	70-130
	35 Chloroform	5.000	5.586	111.73	70-130
	9 Chloromethane	5.000	5.275	105.49	70-130
	32 cis-1,2-dichloroet	5.000	5.430	108.61	70-130
	48 cis-1,3-Dichloropr	5.000	4.649	92.97	70-130
	45 Dibromomethane	5.000	5.631	112.63	70-130
	8 Dichlorodifluorome	5.000	5.811	116.23	70-130
	61 Ethylbenzene	5.000	5.609	112.18	70-130
	86 Hexachlorobutadien	5.000	5.736	114.72	70-130
	67 Isopropylbenzene	5.000	5.232	104.64	70-130
	62 m + p-Xylene	10.000	11.484	114.84	70-130
	21 Methylene Chloride	5.000	3.557	71.13	70-130
	87 Naphthalene	5.000	4.578	91.55	70-130
	82 n-Butylbenzene	5.000	4.982	99.64	70-130
	72 n-Propylbenzene	5.000	5.474	109.47	70-130
	64 Xylene-o	5.000	5.484	109.67	70-130
	79 4-Isopropyltoluene	5.000	4.982	99.65	70-130
	78 sec-Butylbenzene	5.000	5.291	105.82	70-130
	65 Styrene	5.000	5.075	101.51	70-130
	76 tert-Butylbenzene	5.000	5.023	100.47	70-130
	55 Tetrachloroethene	5.000	5.780	115.61	70-130
	50 Toluene	5.000	6.701	134.03*	70-130
	25 trans-1,2-Dichloro	5.000	5.594	111.88	70-130
	51 trans-1,3-Dichloro	5.000	4.565	91.31	70-130
	42 Trichloroethene	5.000	5.730	114.60	70-130
	13 Trichlorofluoromet	5.000	5.536	110.72	70-130
	10 Vinyl Chloride	5.000	5.924	118.49	70-130
	19 Iodomethane	5.000	6.023	120.45	70-130
	24 Methyl tert-butyl	5.000	5.441	108.83	70-130
	15 Acrolein	50.000	67.912	135.82*	70-130
	18 Freon-113	5.000	6.402	128.03	70-130
	22 Acetonitrile	50.000	59.308	118.62	70-130
	23 Acrylonitrile	10.000	11.212	112.12	70-130
	26 Hexane	5.000	5.457	109.15	70-130
	29 tert-Butyl Alcohol	100.00	109.90	109.90	70-130
M	31 1,2-Dichloroethene	10.000	11.024	110.24	70-130
	36 Tetrahydrofuran	5.000	4.695	93.91	70-130
	47 2-Chloroethyl viny	10.000	8.702	87.02	70-130
	44 1,4-Dioxane	250.00	232.91	93.16	70-130
	52 Ethyl Methacrylate	5.000	4.551	91.02	70-130
M	63 Xylenes (total)	15.000	16.967	113.12	70-130
	69 1,4-Dichloro-2-but	5.000	5.434	108.68	70-130
	98 Cyclohexane	5.000	5.929	118.58	70-130
	141 1,3,5-Trichloroben	5.000	5.776	115.52	70-130
	143 Methyl Acetate	10.000	10.588	105.88	70-130
	144 Methylcyclohexane	5.000	5.412	108.24	70-130
	27 Vinyl acetate	5.000	4.962	99.23	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	50.000	48.249	96.50	59-138
$ 5 1,2-Dichloroethane	50.000	47.230	94.46	61-130
$ 6 Toluene-d8	50.000	50.207	100.41	60-143
$ 7 Bromofluorobenzene	50.000	50.804	101.61	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Lab Smp Id: QCMRL
Inj Date : 26-FEB-2010 13:19
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMRL
Misc Info : R00226A,8260SUX14,1-8260.SUB,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 7 QC Sample: MRL
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1320373	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	963026	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	523833	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	350929	241.244	48.249
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	352201	236.152	47.230
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1310590	251.037	50.207
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	493396	254.023	50.804
8 Dichlorodifluoromethane	85	1.310	1.298	(0.199)	38805	29.0574	5.811
9 Chloromethane	50	1.452	1.452	(0.220)	50918	26.3731	5.275
10 Vinyl Chloride	62	1.570	1.570	(0.238)	43138	29.6226	5.924
11 Bromomethane	94	1.890	1.878	(0.286)	23652	33.2652	6.653(R)
12 Chloroethane	64	2.008	1.996	(0.304)	23938	27.8741	5.575
13 Trichlorofluoromethane	101	2.280	2.268	(0.346)	38819	27.6796	5.536
15 Acrolein	56	2.730	2.730	(0.414)	56350	339.561	67.912(R)
16 Acetone	43	2.943	2.931	(0.446)	41539	39.7843	7.957
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	37015	29.3416	5.868
18 Freon-113	151	2.896	2.896	(0.439)	32429	32.0084	6.402
19 Iodomethane	142	3.026	3.026	(0.459)	64748	30.1136	6.023
20 Carbon Disulfide	76	3.097	3.097	(0.469)	95973	26.5610	5.312

21	Methylene Chloride	84	3.511	3.499 (0.532)	53376	17.7832	3.557
22	Acetonitrile	41	3.298	3.286 (0.500)	51940	296.542	59.308
23	Acrylonitrile	53	3.890	3.890 (0.589)	29133	56.0608	11.212

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	89173	27.2071	5.441
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	40974	27.9693	5.594
	26 Hexane	86	4.398	4.387	(0.666)	9225	27.2872	5.457
	27 Vinyl acetate	43	4.694	4.694	(0.711)	41929	24.8079	4.962
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	3430	22.7767	4.555(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	74514	28.4254	5.685
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	65628	549.487	109.90
	30 2-Butanone	43	5.392	5.380	(0.817)	31670	46.8071	9.361
M	31 1,2-Dichloroethene (total)	96				81730	55.1211	11.024
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	40756	27.1518	5.430
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	27542	26.8530	5.371
	34 Bromochloromethane	128	5.605	5.605	(0.849)	21554	29.5433	5.909
	35 Chloroform	83	5.724	5.724	(0.867)	67117	27.9320	5.586
	36 Tetrahydrofuran	42	5.688	5.676	(0.862)	10289	23.4771	4.695
	37 1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	52275	30.0871	6.017
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	51934	28.5042	5.701
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	51056	33.8090	6.762(R)
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	50271	28.2671	5.653
	41 Benzene	78	6.303	6.303	(0.955)	156851	27.4835	5.497
	42 Trichloroethene	130	6.966	6.966	(1.056)	45063	28.6493	5.730
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	38129	26.6681	5.334
	44 1,4-Dioxane	88	7.321	7.309	(1.109)	13738	1164.53	232.91
	45 Dibromomethane	93	7.274	7.274	(1.102)	20501	28.1565	5.631
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	37588	25.4673	5.093
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	23576	43.5119	8.702
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	42193	23.2435	4.649
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	53903	46.3497	9.270
	50 Toluene	91	8.138	8.138	(0.872)	190586	33.5066	6.701(R)
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	34124	22.8275	4.565
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	27421	22.7538	4.551
	53 1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	27144	26.7513	5.350
	54 1,3-Dichloropropane	76	8.635	8.635	(0.925)	45760	26.9180	5.384
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	34707	28.9020	5.780
	56 2-Hexanone	43	8.717	8.717	(0.934)	38797	48.4229	9.684
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	25847	24.4034	4.881
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	26852	27.4088	5.482
	59 Chlorobenzene	112	9.356	9.356	(1.003)	113012	28.9059	5.781
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	34069	27.4755	5.495
	61 Ethylbenzene	106	9.451	9.451	(1.013)	56515	28.0454	5.609
	62 m + p-Xylene	106	9.557	9.557	(1.024)	139981	57.4184	11.484
M	63 Xylenes (total)	106				202963	84.8367	16.967
	64 Xylene-o	106	9.889	9.889	(1.060)	62982	27.4183	5.484
	65 Styrene	104	9.901	9.901	(1.061)	92662	25.3774	5.075
	66 Bromoform	173	10.054	10.054	(1.077)	16056	25.0383	5.008
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	161272	26.1599	5.232
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	35651	27.7445	5.549
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	10832	27.1699	5.434
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	10449	28.0595	5.612
	71 Bromobenzene	156	10.457	10.457	(0.925)	47267	30.6465	6.129
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	49078	27.3679	5.474
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	43882	30.0785	6.016
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	133528	26.8850	5.377

75	4-Chlorotoluene	126	10.717	10.717 (0.948)	47829	31.0490	6.210
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	115509	25.1165	5.023

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	132818	26.1985	5.240
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	174963	26.4540	5.291
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	140034	24.9120	4.982
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	83627	28.5580	5.712
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	91413	29.4257	5.885
82	n-Butylbenzene	91	11.616	11.616	(1.027)	121492	24.9091	4.982
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	80509	29.3648	5.873
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	5491	24.7611	4.952
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	52216	29.4305	5.886
87	Naphthalene	128	13.178	13.178	(1.165)	93457	22.8877	4.578
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	32619	28.6804	5.736
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	54702	31.2994	6.260
98	Cyclohexane	56	5.972	5.960	(0.905)	91897	29.6452	5.929
143	Methyl Acetate	43	3.404	3.393	(0.516)	67934	52.9389	10.588
144	Methylcyclohexane	83	7.144	7.144	(1.082)	71718	27.0593	5.412
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	60419	28.8799	5.776

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Report Date: 26-Feb-2010 13:36

TestAmerica North Canton

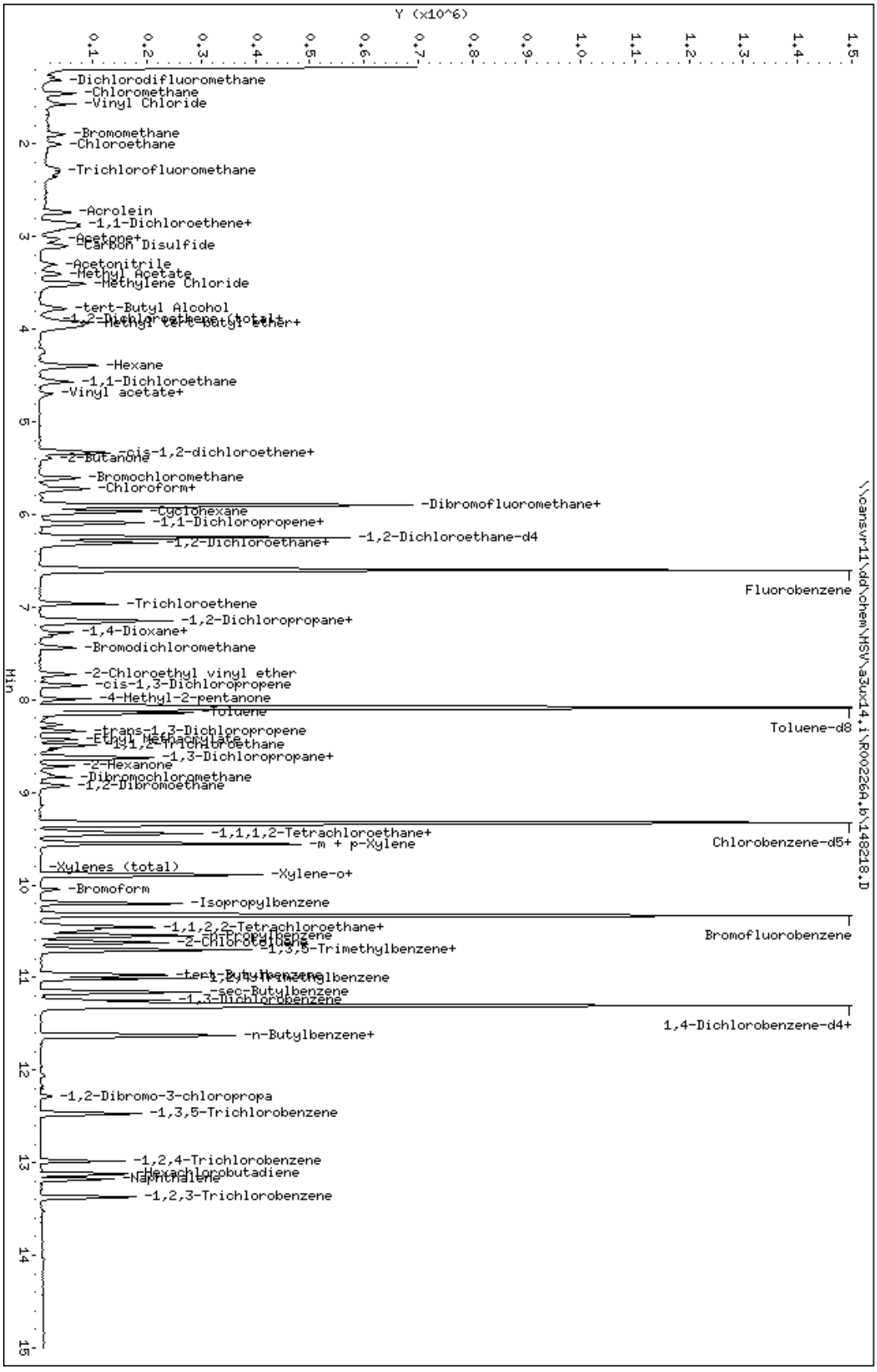
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Calibration Date: 26-FEB-2010
Lab File ID: 148218.D
Calibration Time: 11:30
Lab Smp Id: QCMRL
Analysis Type: VOA
Level: LOW
Quant Type: ISTD
Sample Type: SOIL
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1320373	0.64
2 Chlorobenzene-d5	965181	482591	1930362	963026	-0.22
3 1,4-Dichlorobenze	531218	265609	1062436	523833	-1.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148218.D
Date : 26-FEB-2010 13:19
Client ID:
Sample Info: QCHRL
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
* 1 Fluorobenzene	0.0000	50.000	0.00	0-0
* 2 Chlorobenzene-d5	0.0000	50.000	0.00	0-0
* 3 1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$ 6 Toluene-d8	50.000	49.910	99.82	50-150
$ 7 Bromofluorobenzene	50.000	50.305	100.61	50-150
60 1,1,1,2-Tetrachlor	5.000	5.097	101.93	70-130
37 1,1,1-Trichloroeth	5.000	6.088	121.77	70-130
68 1,1,2,2-Tetrachlor	5.000	5.378	107.56	70-130
53 1,1,2-Trichloroeth	5.000	5.240	104.80	70-130
28 1,1-Dichloroethane	5.000	5.373	107.47	70-130
17 1,1-Dichloroethene	5.000	5.637	112.73	70-130
38 1,1-Dichloropropen	5.000	5.291	105.82	70-130
88 1,2,3-Trichloroben	5.000	4.504	90.09	70-130
70 1,2,3-Trichloropro	5.000	6.097	121.95	70-130
85 1,2,4-Trichloroben	5.000	4.496	89.92	70-130
77 1,2,4-Trimethylben	5.000	4.763	95.27	70-130
84 1,2-Dibromo-3-chlo	5.000	4.342	86.83	70-130
58 1,2-Dibromoethane	5.000	5.159	103.18	70-130
83 1,2-Dichlorobenzen	5.000	5.452	109.04	70-130
40 1,2-Dichloroethane	5.000	5.496	109.93	70-130
43 1,2-Dichloropropan	5.000	5.168	103.36	70-130
74 1,3,5-Trimethylben	5.000	4.896	97.91	70-130
80 1,3-Dichlorobenzen	5.000	5.362	107.24	70-130
54 1,3-Dichloropropan	5.000	5.344	106.87	70-130
81 1,4-Dichlorobenzen	5.000	5.363	107.27	70-130
33 2,2-Dichloropropan	5.000	5.300	106.00	70-130
30 2-Butanone	10.000	8.750	87.50	70-130
73 2-Chlorotoluene	5.000	5.713	114.25	70-130
56 2-Hexanone	10.000	8.941	89.41	70-130
75 4-Chlorotoluene	5.000	5.560	111.20	70-130
49 4-Methyl-2-pentano	10.000	8.570	85.70	70-130
16 Acetone	10.000	10.842	108.42	70-130
41 Benzene	5.000	5.286	105.72	70-130
71 Bromobenzene	5.000	5.485	109.70	70-130
34 Bromochloromethane	5.000	5.416	108.33	70-130
46 Bromodichlorometha	5.000	5.202	104.05	70-130
66 Bromoform	5.000	4.659	93.17	70-130
11 Bromomethane	5.000	6.228	124.57	70-130

20 Carbon Disulfide	5.000	5.276	105.53	70-130
39 Carbon Tetrachlori	5.000	6.722	134.43*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	59 Chlorobenzene	5.000	5.719	114.38	70-130
	57 Dibromochlorometha	5.000	4.852	97.05	70-130
	12 Chloroethane	5.000	5.197	103.94	70-130
	35 Chloroform	5.000	5.420	108.40	70-130
	9 Chloromethane	5.000	5.186	103.73	70-130
	32 cis-1,2-dichloroet	5.000	5.100	102.01	70-130
	48 cis-1,3-Dichloropr	5.000	4.147	82.94	70-130
	45 Dibromomethane	5.000	5.623	112.46	70-130
	8 Dichlorodifluorome	5.000	5.454	109.09	70-130
	61 Ethylbenzene	5.000	5.430	108.60	70-130
	86 Hexachlorobutadien	5.000	5.105	102.09	70-130
	67 Isopropylbenzene	5.000	4.675	93.50	70-130
	62 m + p-Xylene	10.000	10.724	107.24	70-130
	21 Methylene Chloride	5.000	4.150	82.99	70-130
	87 Naphthalene	5.000	3.219	64.38*	70-130
	82 n-Butylbenzene	5.000	4.521	90.41	70-130
	72 n-Propylbenzene	5.000	5.017	100.35	70-130
	64 Xylene-o	5.000	5.048	100.95	70-130
	79 4-Isopropyltoluene	5.000	4.491	89.81	70-130
	78 sec-Butylbenzene	5.000	4.805	96.10	70-130
	65 Styrene	5.000	4.830	96.61	70-130
	76 tert-Butylbenzene	5.000	4.431	88.62	70-130
	55 Tetrachloroethene	5.000	5.447	108.94	70-130
	50 Toluene	5.000	6.295	125.89	70-130
	25 trans-1,2-Dichloro	5.000	5.530	110.59	70-130
	51 trans-1,3-Dichloro	5.000	4.345	86.90	70-130
	42 Trichloroethene	5.000	5.238	104.77	70-130
	13 Trichlorofluoromet	5.000	5.031	100.63	70-130
	10 Vinyl Chloride	5.000	5.273	105.46	70-130
	19 Iodomethane	5.000	5.904	118.07	70-130
	24 Methyl tert-butyl	5.000	4.980	99.61	70-130
	15 Acrolein	50.000	78.620	157.24*	70-130
	18 Freon-113	5.000	6.325	126.51	70-130
	22 Acetonitrile	50.000	58.428	116.86	70-130
	23 Acrylonitrile	10.000	9.934	99.34	70-130
	26 Hexane	5.000	5.240	104.81	70-130
	29 tert-Butyl Alcohol	100.00	100.94	100.94	70-130
M	31 1,2-Dichloroethene	10.000	10.630	106.30	70-130
	36 Tetrahydrofuran	5.000	4.290	85.80	70-130
	47 2-Chloroethyl viny	10.000	7.742	77.42	70-130
	44 1,4-Dioxane	250.00	238.51	95.40	70-130
	52 Ethyl Methacrylate	5.000	4.355	87.10	70-130
M	63 Xylenes (total)	15.000	15.771	105.14	70-130
	69 1,4-Dichloro-2-but	5.000	4.607	92.14	70-130
	98 Cyclohexane	5.000	5.738	114.75	70-130
	141 1,3,5-Trichloroben	5.000	5.066	101.31	70-130
	143 Methyl Acetate	10.000	9.160	91.60	70-130
	144 Methylcyclohexane	5.000	5.118	102.36	70-130
	27 Vinyl acetate	5.000	5.632	112.63	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	50.000	50.840	101.68	59-138
$ 5 1,2-Dichloroethane	50.000	50.322	100.64	61-130
$ 6 Toluene-d8	50.000	49.910	99.82	60-143
$ 7 Bromofluorobenzene	50.000	50.305	100.61	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Lab Smp Id: QCMRL
Inj Date : 26-FEB-2010 21:17
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMRL
Misc Info : R00226A,8260SUX14,1-8260.SUB,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 29 QC Sample: MRL
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1145191	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	847304	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	481941	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	320719	254.203	50.840
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	325469	251.611	50.322
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1146285	249.552	49.910
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	449472	251.524	50.305
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	31589	27.2725	5.454
9 Chloromethane	50	1.452	1.452	(0.220)	43423	25.9316	5.186
10 Vinyl Chloride	62	1.570	1.570	(0.238)	33301	26.3657	5.273
11 Bromomethane	94	1.890	1.878	(0.286)	19205	31.1426	6.228
12 Chloroethane	64	1.996	1.996	(0.303)	19355	25.9851	5.197
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	30600	25.1568	5.031
15 Acrolein	56	2.730	2.730	(0.414)	56580	393.102	78.620(R)
16 Acetone	43	2.931	2.931	(0.444)	40891	54.2109	10.842
17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	30837	28.1837	5.637
18 Freon-113	151	2.896	2.896	(0.439)	27791	31.6267	6.325
19 Iodomethane	142	3.026	3.026	(0.459)	55046	29.5176	5.904
20 Carbon Disulfide	76	3.097	3.097	(0.469)	82680	26.3824	5.276

21 Methylene Chloride	84	3.511	3.499 (0.532)	49652	20.7482	4.150
22 Acetonitrile	41	3.298	3.286 (0.500)	44380	292.139	58.428
23 Acrylonitrile	53	3.889	3.890 (0.589)	22387	49.6694	9.934

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	70787	24.9013	4.980
	25 trans-1,2-Dichloroethene	96	3.937	3.925	(0.597)	35129	27.6476	5.530
	26 Hexane	86	4.398	4.387	(0.666)	7683	26.2024	5.240
	27 Vinyl acetate	43	4.694	4.694	(0.711)	41278	28.1587	5.632
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	3525	26.9882	5.398(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	61084	26.8667	5.373
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	52279	504.678	100.94
	30 2-Butanone	43	5.380	5.380	(0.815)	25675	43.7515	8.750
M	31 1,2-Dichloroethene (total)	96				68329	53.1490	10.630
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	33200	25.5014	5.100
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	23574	26.5002	5.300
	34 Bromochloromethane	128	5.605	5.605	(0.849)	17137	27.0822	5.416
	35 Chloroform	83	5.724	5.724	(0.867)	56479	27.1003	5.420
	36 Tetrahydrofuran	42	5.688	5.676	(0.862)	8153	21.4490	4.290
	37 1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	45875	30.4425	6.088
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	41806	26.4554	5.291
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	44019	33.6082	6.722(R)
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	42391	27.4825	5.496
	41 Benzene	78	6.303	6.303	(0.955)	130821	26.4290	5.286
	42 Trichloroethene	130	6.966	6.966	(1.056)	35732	26.1921	5.238
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	32043	25.8398	5.168
	44 1,4-Dioxane	88	7.309	7.309	(1.108)	12202	1192.55	238.51
	45 Dibromomethane	93	7.274	7.274	(1.102)	17755	28.1153	5.623
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	33299	26.0126	5.202
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	17578	38.7121	7.742
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	32646	20.7353	4.147
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	43846	42.8512	8.570
	50 Toluene	91	8.149	8.138	(0.873)	157509	31.4733	6.295
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	28572	21.7239	4.345
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	22843	21.7753	4.355
	53 1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	23390	26.1999	5.240
	54 1,3-Dichloropropane	76	8.634	8.635	(0.925)	39963	26.7186	5.344
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	28774	27.2339	5.447
	56 2-Hexanone	43	8.717	8.717	(0.934)	31515	44.7063	8.941
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	22610	24.2627	4.852
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	22234	25.7947	5.159
	59 Chlorobenzene	112	9.356	9.356	(1.003)	98360	28.5942	5.719
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	27802	25.4836	5.097
	61 Ethylbenzene	106	9.451	9.451	(1.013)	48137	27.1504	5.430
	62 m + p-Xylene	106	9.557	9.557	(1.024)	115010	53.6187	10.724
M	63 Xylenes (total)	106				166017	78.8565	15.771
	64 Xylene-o	106	9.889	9.889	(1.060)	51007	25.2379	5.048
	65 Styrene	104	9.901	9.901	(1.061)	77589	24.1515	4.830
	66 Bromoform	173	10.054	10.054	(1.077)	13142	23.2931	4.659
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	126789	23.3753	4.675
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	31790	26.8903	5.378
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	8449	23.0347	4.607
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	10445	30.4869	6.097
	71 Bromobenzene	156	10.457	10.457	(0.925)	38915	27.4245	5.485
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	41389	25.0864	5.017
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	38339	28.5634	5.713
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	111851	24.4780	4.896

75	4-Chlorotoluene	126	10.717	10.717 (0.948)	39399	27.7997	5.560
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	93739	22.1545	4.431

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	111088	23.8170	4.763
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	146186	24.0242	4.805
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	116120	22.4534	4.491
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	72231	26.8105	5.362
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	76647	26.8172	5.363
82	n-Butylbenzene	91	11.628	11.616	(1.028)	101429	22.6033	4.521
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	68760	27.2595	5.452
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	4429	21.7082	4.342
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	36695	22.4802	4.496
87	Naphthalene	128	13.178	13.178	(1.165)	60461	16.0940	3.219(R)
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	26707	25.5234	5.105
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	36214	22.5221	4.504
98	Cyclohexane	56	5.960	5.960	(0.903)	77130	28.6877	5.738
143	Methyl Acetate	43	3.393	3.393	(0.514)	50974	45.7989	9.160
144	Methylcyclohexane	83	7.144	7.144	(1.082)	58828	25.5912	5.118
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	48750	25.3277	5.066

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 26-Feb-2010 22:10

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

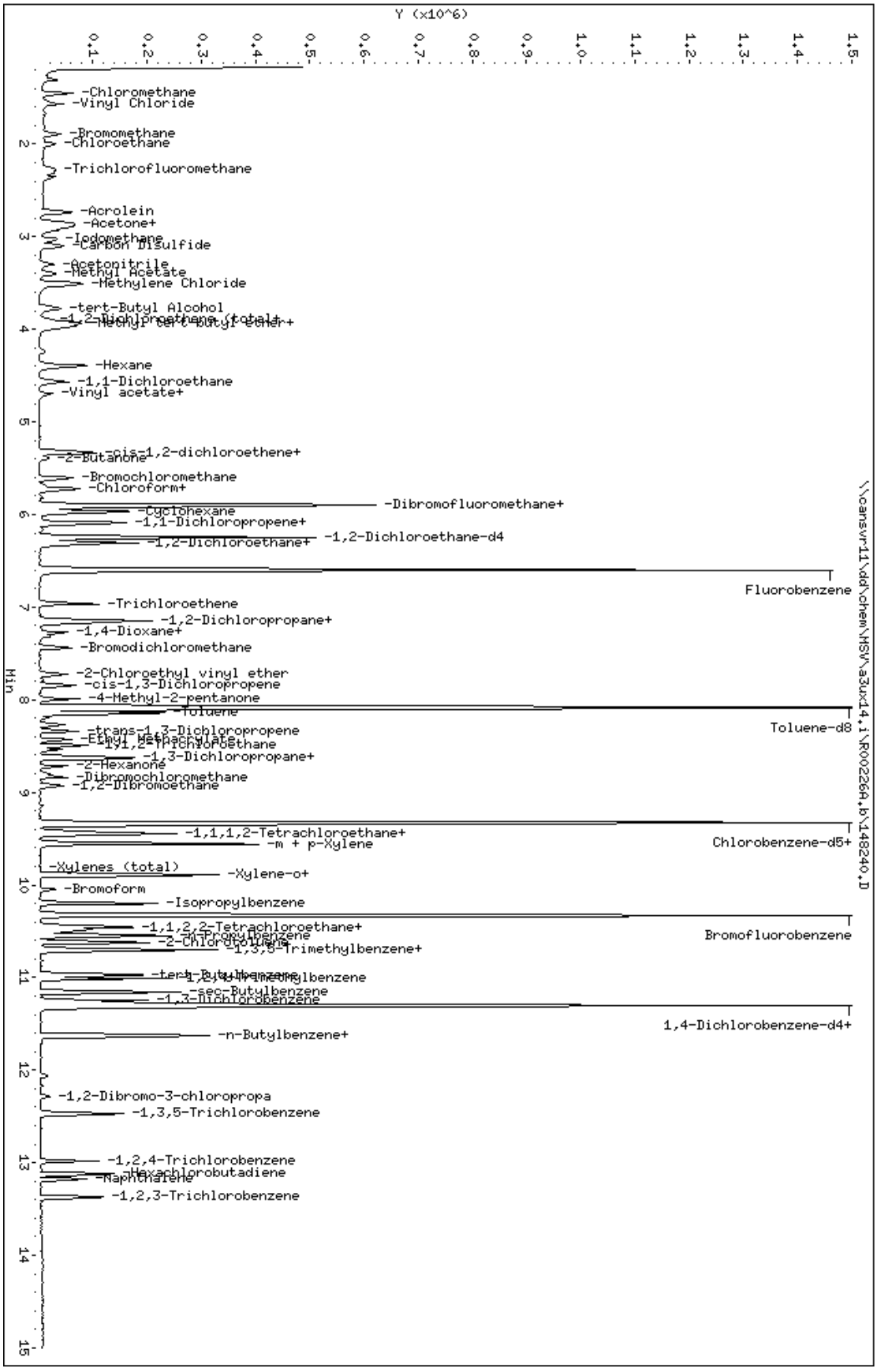
Instrument ID: a3ux14.i
Lab File ID: 148240.D
Lab Smp Id: QCMRL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1145191	-12.71
2 Chlorobenzene-d5	965181	482591	1930362	847304	-12.21
3 1,4-Dichlorobenze	531218	265609	1062436	481941	-9.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Date : 26-FEB-2010 21:17
Client ID:
Sample Info: QCHRL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-1,2-Dichloroethane-d4
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
Bromofluorobenzene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 01-Mar-2010 09:31

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Lab Smp Id: QCMDL
Inj Date : 26-FEB-2010 21:39
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMDL
Misc Info : R00226A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1135608	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.333	(1.000)	838221	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	464475	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	305273	244.002	48.800
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	315815	246.208	49.242
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1075573	236.695	47.339
$ 7 Bromofluorobenzene	95	10.326	10.327	(0.913)	424325	246.380	49.276
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	11799	10.2727	2.054
9 Chloromethane	50	1.452	1.452	(0.220)	15125	9.10864	1.822
10 Vinyl Chloride	62	1.570	1.570	(0.238)	12349	9.85968	1.972
11 Bromomethane	94	1.890	1.878	(0.286)	8534	13.9554	2.791
12 Chloroethane	64	1.996	1.996	(0.303)	7678	10.3951	2.079
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	9810	8.13302	1.627
15 Acrolein	56	2.742	2.730	(0.415)	23532	164.874	32.975
16 Acetone	43	2.931	2.931	(0.444)	44021	64.5979	12.920
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	10943	10.0858	2.017
18 Freon-113	151	2.895	2.896	(0.439)	9981	11.4544	2.291
19 Iodomethane	142	3.014	3.026	(0.457)	20115	10.8774	2.175
20 Carbon Disulfide	76	3.097	3.097	(0.469)	29014	9.33621	1.867
21 Methylene Chloride	84	3.511	3.499	(0.532)	32727	6.04668	1.209

22 Acetonitrile	41	3.298	3.286 (0.500)	19023	126.279	25.256
23 Acrylonitrile	53	3.889	3.890 (0.589)	7957	17.8029	3.560

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 01-Mar-2010 09:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	23977	8.50574	1.701
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	12245	9.71853	1.944
	26 Hexane	86	4.398	4.387	(0.666)	2271	7.81047	1.562
	27 Vinyl acetate	43	4.706	4.694	(0.713)	15810	10.8762	2.175
	154 Vinyl Acetate**2nd**	86	4.706	4.694	(0.713)	1234	9.52752	1.906(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	21952	9.73667	1.947
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	17694	172.251	34.450
	30 2-Butanone	43	5.392	5.380	(0.817)	17035	29.2735	5.855
M	31 1,2-Dichloroethene (total)	96				24445	19.1686	3.834
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	12200	9.45006	1.890
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	8583	9.72982	1.946
	34 Bromochloromethane	128	5.605	5.605	(0.849)	6656	10.6075	2.121
	35 Chloroform	83	5.723	5.724	(0.867)	20834	10.0811	2.016
	36 Tetrahydrofuran	42	5.688	5.676	(0.862)	3435	9.11310	1.823
	37 1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	16305	10.9113	2.182
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	13996	8.93161	1.786
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	15872	12.2204	2.444
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	15581	10.1865	2.037
	41 Benzene	78	6.303	6.303	(0.955)	45666	9.30349	1.861
	42 Trichloroethene	130	6.966	6.966	(1.056)	13607	10.0583	2.012
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	10764	8.75344	1.751
	44 1,4-Dioxane	88	7.321	7.309	(1.109)	3493	344.267	68.853
	45 Dibromomethane	93	7.274	7.274	(1.102)	6186	9.87828	1.976
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	11571	9.11534	1.823
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	6336	20.0006	4.000
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	11098	7.10844	1.422
	49 4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	16272	16.0751	3.215
	50 Toluene	91	8.137	8.138	(0.872)	52806	10.6660	2.133
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.893)	10218	7.85314	1.571
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	7405	10.0622	2.012
	53 1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	9515	10.7735	2.155
	54 1,3-Dichloropropane	76	8.634	8.635	(0.925)	12824	8.66682	1.733
	55 Tetrachloroethene	164	8.622	8.623	(0.924)	11257	10.7699	2.154
	56 2-Hexanone	43	8.717	8.717	(0.934)	15453	22.1587	4.432
	57 Dibromochloromethane	129	8.835	8.836	(0.947)	7785	8.44457	1.689
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	8144	9.55060	1.910
	59 Chlorobenzene	112	9.356	9.356	(1.003)	33598	9.87311	1.975
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	10269	9.51467	1.903
	61 Ethylbenzene	106	9.451	9.451	(1.013)	16172	9.22023	1.844
	62 m + p-Xylene	106	9.557	9.557	(1.024)	36156	17.0389	3.408
M	63 Xylenes (total)	106				52735	25.3309	5.066
	64 Xylene-o	106	9.889	9.889	(1.060)	16579	8.29205	1.658
	65 Styrene	104	9.900	9.901	(1.061)	23004	7.23817	1.448
	66 Bromoform	173	10.054	10.054	(1.077)	4676	8.37763	1.676
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	43024	8.01803	1.604
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	11964	10.5006	2.100
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	3420	9.67466	1.935
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	3206	9.70957	1.942
	71 Bromobenzene	156	10.457	10.457	(0.925)	13666	9.99297	1.998
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	12958	8.14935	1.630
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	12782	9.88096	1.976
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	35965	8.16672	1.633

75 4-Chlorotoluene	126	10.705	10.717 (0.947)	12620	9.23944	1.848
76 tert-Butylbenzene	119	10.977	10.977 (0.971)	32016	7.85129	1.570

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 01-Mar-2010 09:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	37148	8.26392	1.653
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	47032	8.01990	1.604
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	37789	7.58178	1.516
80	1,3-Dichlorobenzene	146	11.249	11.250	(0.995)	25761	9.92145	1.984
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	28088	10.1970	2.039
82	n-Butylbenzene	91	11.616	11.616	(1.027)	34763	8.03819	1.608
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	24548	10.0979	2.020
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	1865	9.48480	1.897
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	14447	9.18337	1.837
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	10259	10.1730	2.035
87	Naphthalene	128	13.178	13.178	(1.165)	25556	7.05852	1.412
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	14402	9.29364	1.859
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	762	11.9968	2.399
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	20936	7.85263	1.570
143	Methyl Acetate	43	3.404	3.393	(0.516)	19245	17.4371	3.487
144	Methylcyclohexane	83	7.143	7.144	(1.082)	17277	7.57921	1.516
141	1,3,5-Trichlorobenzene	180	12.468	12.480	(1.103)	18937	10.2086	2.042
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	4326	0.98494	0.1970(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 01-Mar-2010 09:31

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Calibration Date: 26-FEB-2010
Lab File ID: 148241.D
Calibration Time: 11:30
Lab Smp Id: QCMDL
Analysis Type: VOA
Level: LOW
Quant Type: ISTD
Sample Type: SOIL
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1135608	-13.45
2 Chlorobenzene-d5	965181	482591	1930362	838221	-13.15
3 1,4-Dichlorobenze	531218	265609	1062436	464475	-12.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Date : 26-FEB-2010 21:39
Client ID:
Sample Info: QCMDL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-Carbon Disulfide
-Acetonitrile
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane+
Bromofluorobenzene
-1,3,5-Trimethylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,2,3-Trimethylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

TestAmerica North Canton

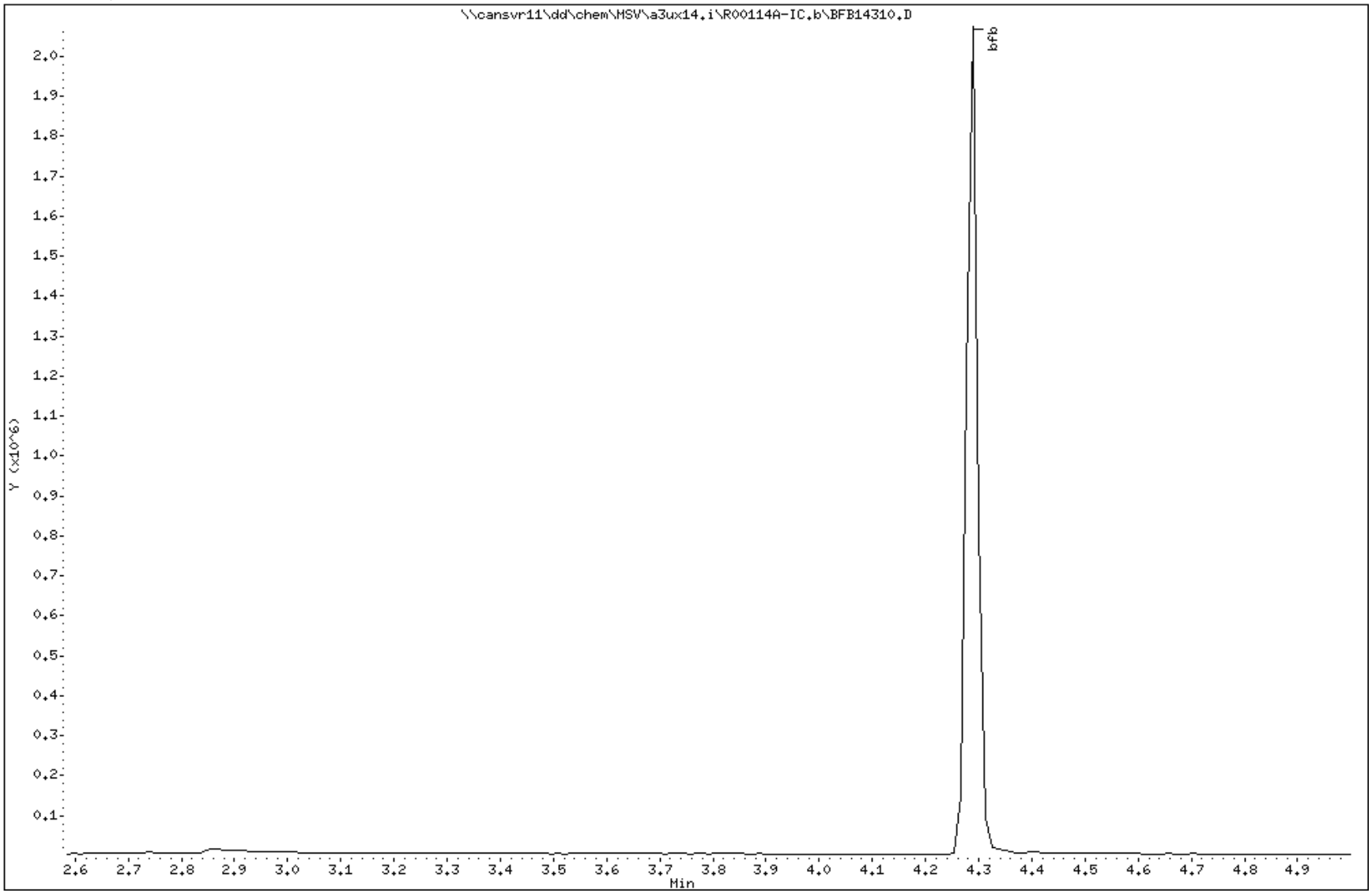
Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFB14310.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 14-JAN-2010 10:00
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : R00114A-IC,BFBSUX14,,2807
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFBSUX14.m
Meth Date : 28-May-2008 09:44 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	MASS	RESPONSE				
1 bfb						CAS #: 460-00-4		
4.289	4.118	0.171	95	292544			100.00- 100.00	100.00
4.289	4.118	0.171	50	53352			15.00- 40.00	18.24
4.289	4.118	0.171	75	130200			30.00- 60.00	44.51
4.289	4.118	0.171	96	19416			5.00- 9.00	6.64
4.289	4.118	0.171	173	580			0.00- 2.00	0.23
4.289	4.118	0.171	174	248000			50.00- 120.00	84.77
4.289	4.118	0.171	175	17632			5.00- 9.00	7.11
4.289	4.118	0.171	176	239040			95.00- 101.00	96.39
4.289	4.118	0.171	177	15716			5.00- 9.00	6.57

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFB14310.D Page 1
Date : 14-JAN-2010 10:00
Client ID: 50NGBFB Instrument: a3ux14.i
Sample Info: 50NG INJECTION OF BFB
Operator: 2807
Column phase: DB624 20m Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFB14310.D Page 2

Date : 14-JAN-2010 10:00

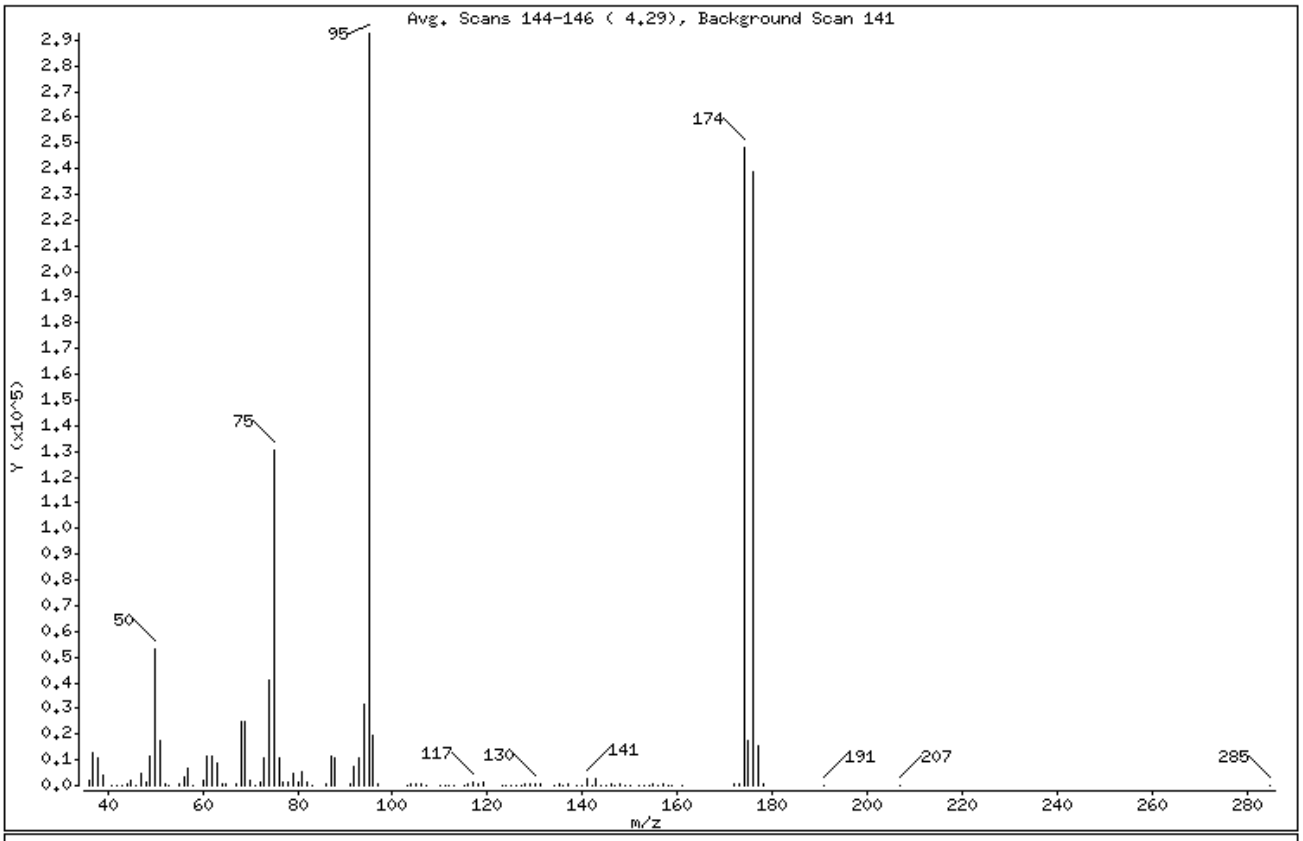
Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.24
75	30.00 - 60.00% of mass 95	44.51
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.20 (0.23)
174	50.00 - 120.00% of mass 95	84.77
175	5.00 - 9.00% of mass 174	6.03 (7.11)
176	95.00 - 101.00% of mass 174	81.71 (96.39)
177	5.00 - 9.00% of mass 176	5.37 (6.57)

Date : 14-JAN-2010 10:00

Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

Data File: BFB14310.D
Spectrum: Avg. Scans 144-146 (4.29), Background Scan 141
Location of Maximum: 95.00
Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2026	69.00	25128	107.00	245	145.00	229
37.00	12651	70.00	1747	110.00	201	146.00	346
38.00	10885	71.00	140	111.00	55	147.00	237
39.00	4160	72.00	1152	112.00	60	148.00	648
41.00	106	73.00	10976	113.00	99	149.00	219
42.00	51	74.00	40944	115.00	220	150.00	234
43.00	113	75.00	130200	116.00	833	152.00	156
44.00	859	76.00	10628	117.00	1501	153.00	165
45.00	2194	77.00	1664	118.00	871	154.00	184
46.00	251	78.00	1032	119.00	1311	155.00	698
47.00	4631	79.00	4699	123.00	50	156.00	146
48.00	1595	80.00	1399	124.00	126	157.00	453
49.00	11357	81.00	5329	125.00	51	158.00	72
50.00	53352	82.00	1164	126.00	57	159.00	307
51.00	17720	83.00	142	127.00	53	161.00	299
52.00	644	86.00	415	128.00	838	172.00	753
53.00	60	87.00	11643	129.00	432	173.00	580
55.00	635	88.00	10581	130.00	906	174.00	248000
56.00	3687	91.00	797	131.00	341	175.00	17632
57.00	6493	92.00	7572	134.00	53	176.00	239040
58.00	264	93.00	10628	135.00	386	177.00	15716
60.00	2205	94.00	31352	136.00	148	178.00	617
61.00	11720	95.00	292544	137.00	451	191.00	112
62.00	11556	96.00	19416	139.00	148	207.00	214
63.00	8408	97.00	565	140.00	123	285.00	52
64.00	780	103.00	116	141.00	2571		
65.00	373	104.00	966	142.00	282		
67.00	557	105.00	342	143.00	2567		
68.00	25072	106.00	912	144.00	160		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\BFB14338.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 25-FEB-2010 11:10
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : R00225A,BFBSUX14,,2807
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\BFBSUX14.m
Meth Date : 28-May-2008 09:44 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.289	4.118	0.171	95	229824			100.00- 100.00	100.00
4.289	4.118	0.171	50	42368			15.00- 40.00	18.43
4.289	4.118	0.171	75	103208			30.00- 60.00	44.91
4.289	4.118	0.171	96	15355			5.00- 9.00	6.68
4.289	4.118	0.171	173	457			0.00- 2.00	0.23
4.289	4.118	0.171	174	197632			50.00- 120.00	85.99
4.289	4.118	0.171	175	14043			5.00- 9.00	7.11
4.289	4.118	0.171	176	190848			95.00- 101.00	96.57
4.289	4.118	0.171	177	12105			5.00- 9.00	6.34

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\BFB14338.D

Page 1

Date : 25-FEB-2010 11:10

Client ID: 50NGBFB

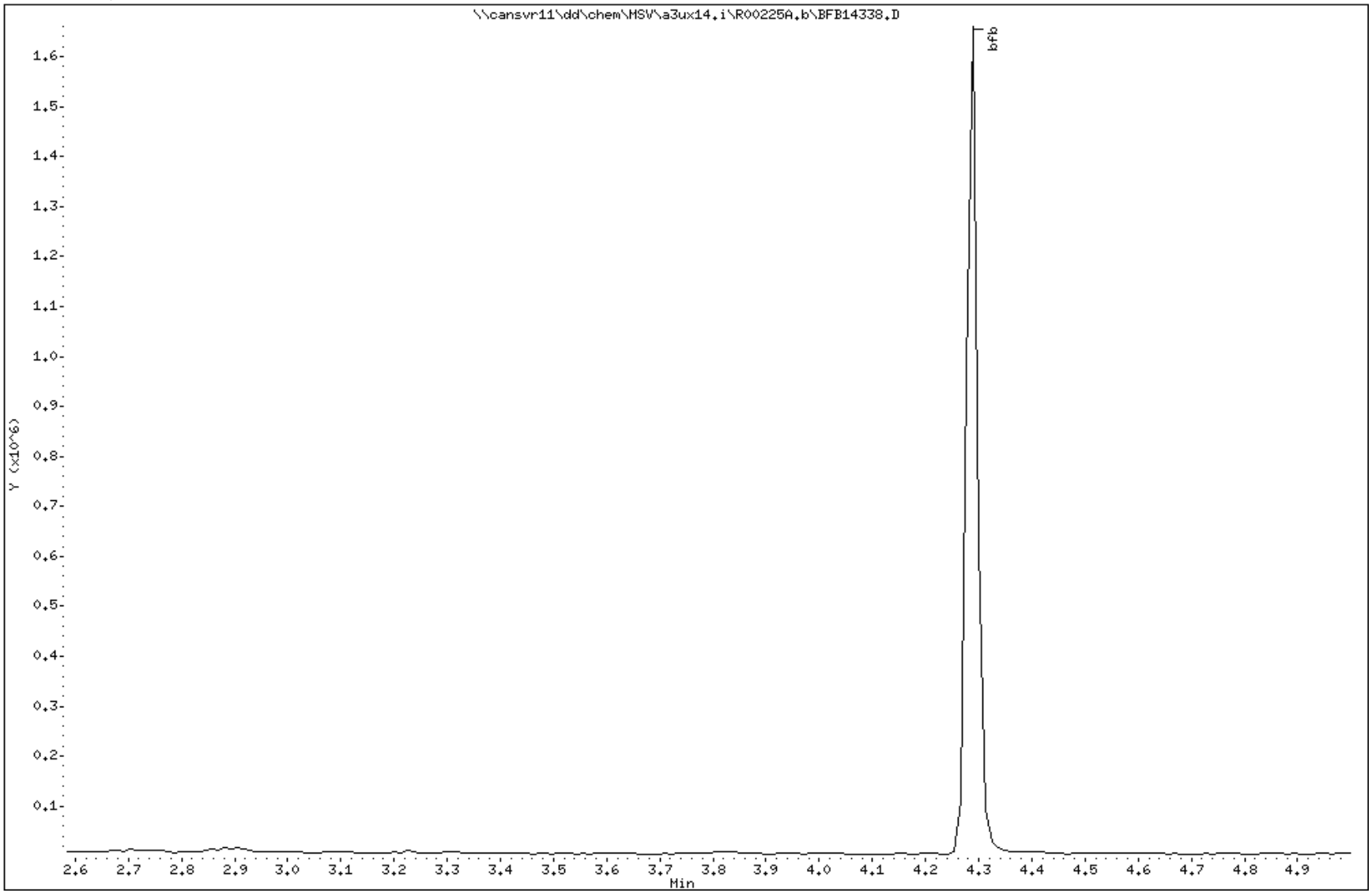
Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\BFB14338.D

Date : 25-FEB-2010 11:10

Client ID: 50NGBFB

Instrument: a3ux14.i

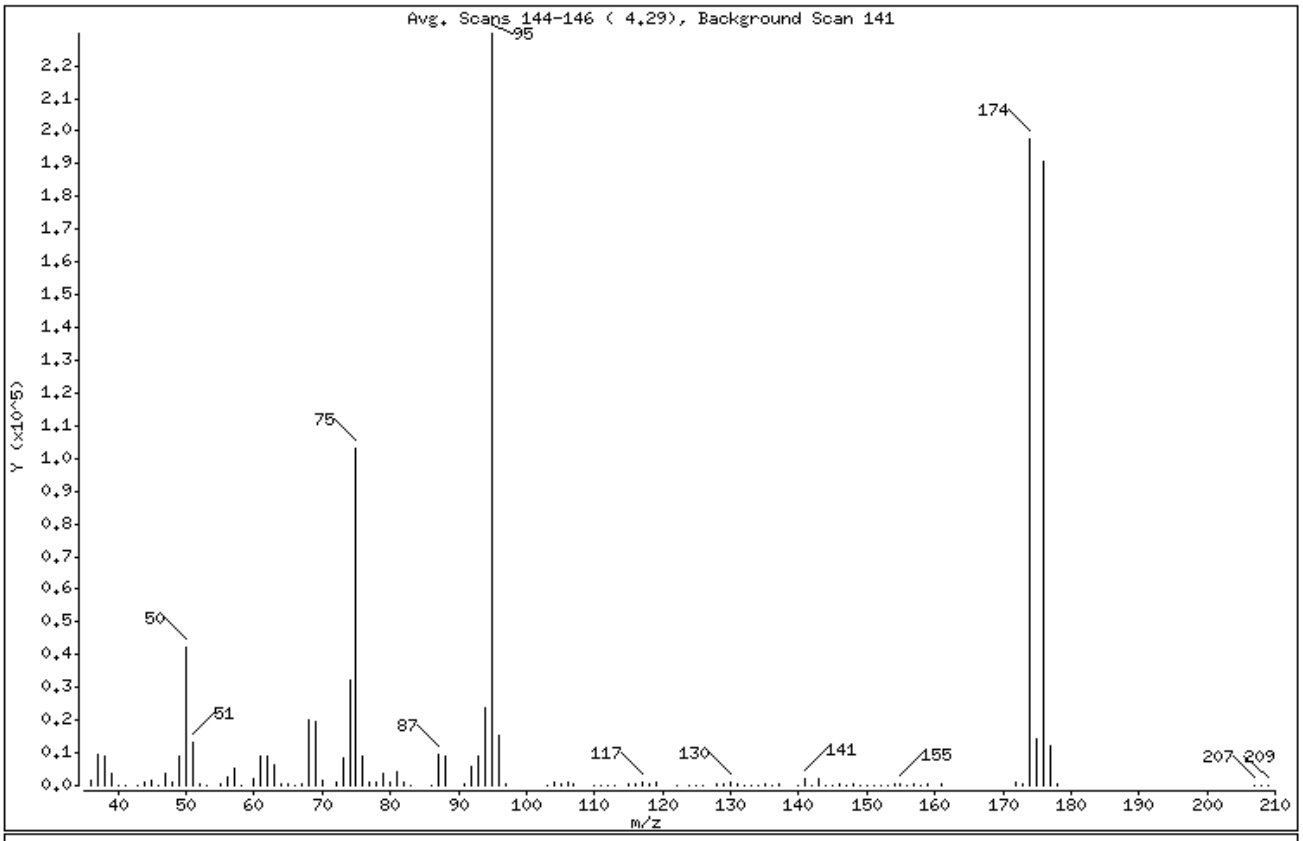
Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.43
75	30.00 - 60.00% of mass 95	44.91
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.20 (0.23)
174	50.00 - 120.00% of mass 95	85.99
175	5.00 - 9.00% of mass 174	6.11 (7.11)
176	95.00 - 101.00% of mass 174	83.04 (96.57)
177	5.00 - 9.00% of mass 176	5.27 (6.34)

Date : 25-FEB-2010 11:10

Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

Data File: BFB14338.D
Spectrum: Avg. Scans 144-146 (4.29), Background Scan 141
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1577	68.00	19816	107.00	318	145.00	230
37.00	9588	69.00	19808	110.00	129	146.00	343
38.00	8747	70.00	1474	111.00	127	147.00	213
39.00	3564	72.00	1071	112.00	65	148.00	625
40.00	202	73.00	8209	113.00	124	149.00	240
41.00	134	74.00	32344	115.00	311	150.00	255
43.00	167	75.00	103208	116.00	736	151.00	56
44.00	831	76.00	8826	117.00	1081	152.00	137
45.00	1786	77.00	1058	118.00	750	153.00	162
46.00	208	78.00	798	119.00	949	154.00	281
47.00	3519	79.00	3641	122.00	51	155.00	673
48.00	1310	80.00	1256	124.00	154	156.00	116
49.00	9184	81.00	4225	125.00	86	157.00	475
50.00	42368	82.00	936	126.00	54	158.00	66
51.00	13285	83.00	67	128.00	664	159.00	307
52.00	554	86.00	238	129.00	401	161.00	269
53.00	120	87.00	9357	130.00	890	172.00	810
55.00	462	88.00	8898	131.00	353	173.00	457
56.00	2885	91.00	657	132.00	80	174.00	197632
57.00	5121	92.00	5733	133.00	117	175.00	14043
58.00	261	93.00	9123	134.00	50	176.00	190848
60.00	1870	94.00	23928	135.00	404	177.00	12105
61.00	9018	95.00	229824	136.00	64	178.00	374
62.00	8819	96.00	15355	137.00	336	207.00	259
63.00	6557	97.00	469	140.00	83	208.00	230
64.00	734	103.00	69	141.00	2158	209.00	168
65.00	516	104.00	801	142.00	233		
66.00	66	105.00	305	143.00	2002		
67.00	549	106.00	868	144.00	111		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFB14339.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 26-FEB-2010 10:48
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : R00226A,BFBSUX14,,2807
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFBSUX14.m
Meth Date : 28-May-2008 09:44 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.288	4.118	0.170	95	192320			100.00- 100.00	100.00
4.288	4.118	0.170	50	34376			15.00- 40.00	17.87
4.288	4.118	0.170	75	84344			30.00- 60.00	43.86
4.288	4.118	0.170	96	13482			5.00- 9.00	7.01
4.288	4.118	0.170	173	753			0.00- 2.00	0.46
4.288	4.118	0.170	174	165248			50.00- 120.00	85.92
4.288	4.118	0.170	175	11518			5.00- 9.00	6.97
4.288	4.118	0.170	176	159744			95.00- 101.00	96.67
4.288	4.118	0.170	177	10377			5.00- 9.00	6.50

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFB14339.D

Page 1

Date : 26-FEB-2010 10:48

Client ID: 50NGBFB

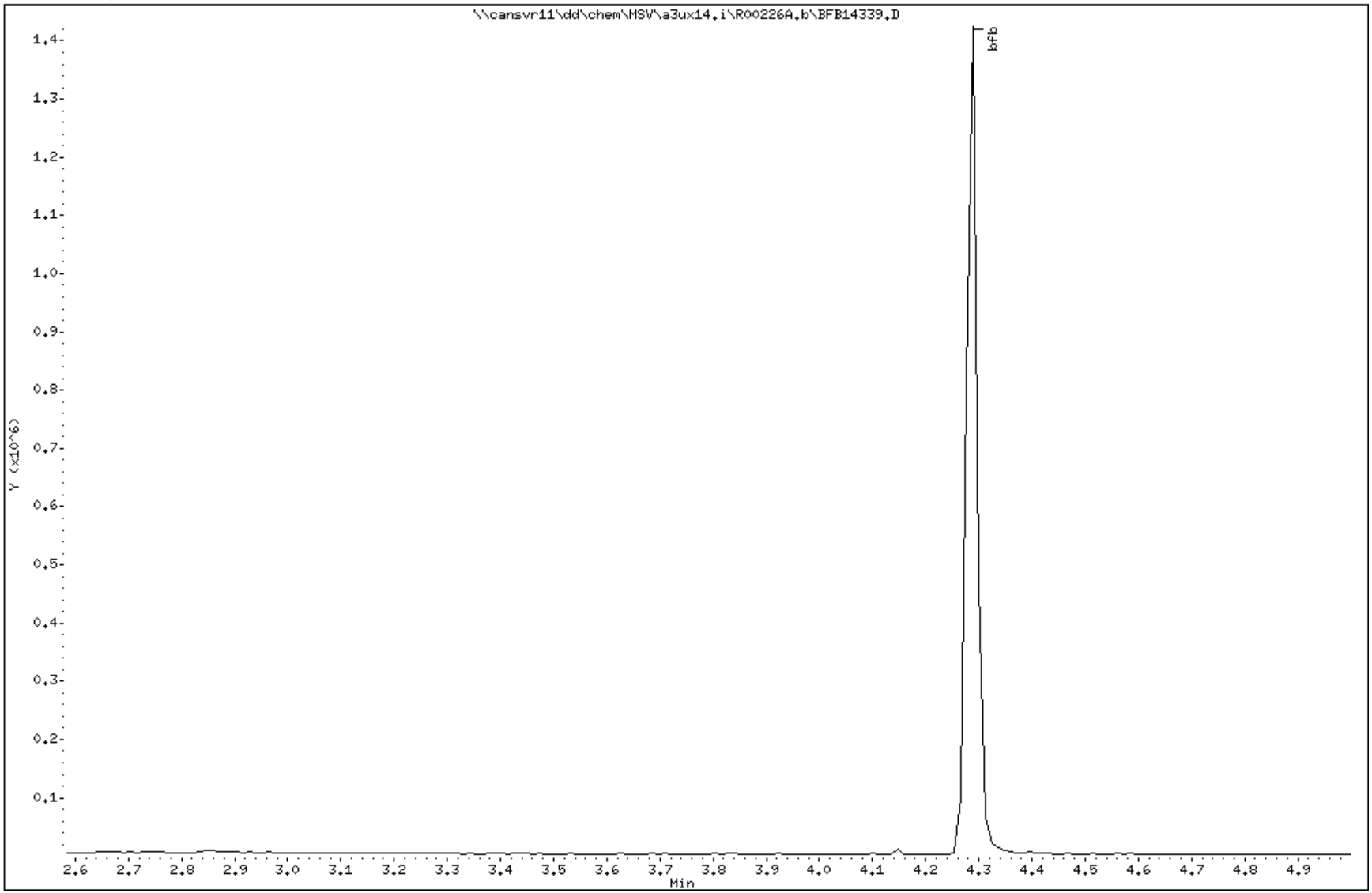
Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18



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Date : 26-FEB-2010 10:48

Client ID: 50NGBFB

Instrument: a3ux14.i

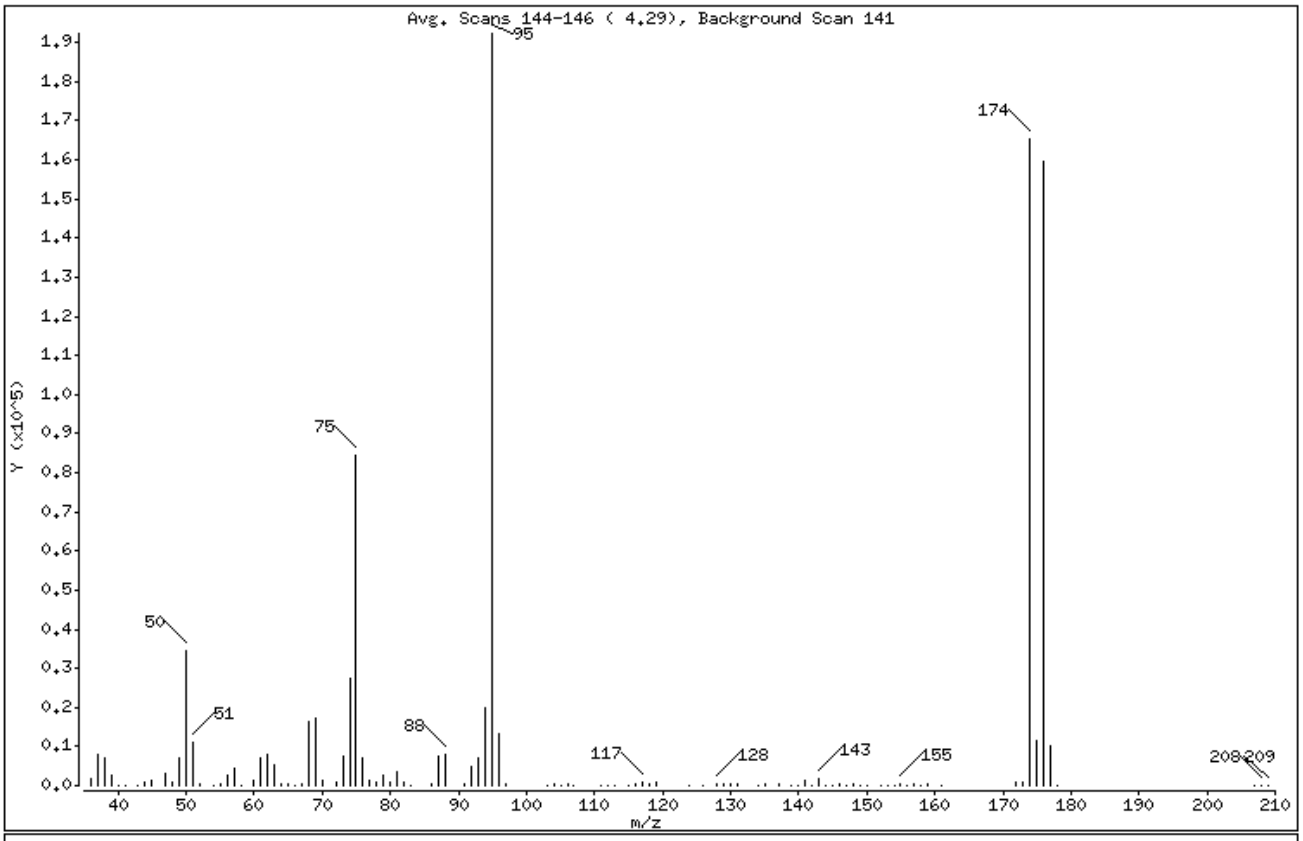
Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.87
75	30.00 - 60.00% of mass 95	43.86
96	5.00 - 9.00% of mass 95	7.01
173	Less than 2.00% of mass 174	0.39 (0.46)
174	50.00 - 120.00% of mass 95	85.92
175	5.00 - 9.00% of mass 174	5.99 (6.97)
176	95.00 - 101.00% of mass 174	83.06 (96.67)
177	5.00 - 9.00% of mass 176	5.40 (6.50)

Date : 26-FEB-2010 10:48

Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

Data File: BFB14339.D
Spectrum: Avg. Scans 144-146 (4.29), Background Scan 141
Location of Maximum: 95.00
Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1585	67.00	357	104.00	621	145.00	142
37.00	7992	68.00	16263	105.00	212	146.00	239
38.00	7234	69.00	17056	106.00	636	147.00	163
39.00	2673	70.00	1293	107.00	72	148.00	461
40.00	214	72.00	877	111.00	53	149.00	110
41.00	50	73.00	7323	112.00	111	150.00	109
43.00	118	74.00	27208	113.00	144	152.00	201
44.00	804	75.00	84344	115.00	148	153.00	147
45.00	1406	76.00	7068	116.00	593	154.00	168
47.00	3075	77.00	1179	117.00	943	155.00	428
48.00	926	78.00	692	118.00	662	156.00	55
49.00	6930	79.00	2737	119.00	882	157.00	359
50.00	34376	80.00	1017	124.00	68	158.00	61
51.00	11020	81.00	3420	126.00	50	159.00	268
52.00	604	82.00	708	128.00	594	161.00	199
54.00	51	83.00	51	129.00	352	172.00	724
55.00	368	86.00	265	130.00	561	173.00	753
56.00	2516	87.00	7615	131.00	228	174.00	165248
57.00	4425	88.00	8070	134.00	53	175.00	11518
58.00	91	91.00	510	135.00	232	176.00	159744
60.00	1380	92.00	4845	137.00	326	177.00	10377
61.00	7118	93.00	7151	139.00	74	178.00	179
62.00	7893	94.00	20056	140.00	131	207.00	110
63.00	5418	95.00	192320	141.00	1522	208.00	155
64.00	523	96.00	13482	142.00	196	209.00	123
65.00	392	97.00	308	143.00	1674		
66.00	50	103.00	57	144.00	64		

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV4QN1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-113 LV4QN1AD-LCSD
Prep Date.....: 02/25/10 **Analysis Date..:** 02/25/10
Prep Batch #...: 0057113
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	108	(65 - 135)			SW846 8260B
	100	(65 - 135)	7.9	(0-30)	SW846 8260B
Trichloroethene	114	(75 - 125)			SW846 8260B
	94	(75 - 125)	19	(0-30)	SW846 8260B
Benzene	99	(75 - 125)			SW846 8260B
	95	(75 - 125)	4.9	(0-30)	SW846 8260B
Toluene	107	(70 - 125)			SW846 8260B
	102	(70 - 125)	4.6	(0-30)	SW846 8260B
Chlorobenzene	100	(75 - 125)			SW846 8260B
	97	(75 - 125)	3.9	(0-30)	SW846 8260B
Acetone	124	(20 - 160)			SW846 8260B
	125	(20 - 160)	1.0	(0-37)	SW846 8260B
Bromodichloromethane	103	(70 - 130)			SW846 8260B
	97	(70 - 130)	6.3	(0-30)	SW846 8260B
Bromoform	109	(55 - 135)			SW846 8260B
	105	(55 - 135)	3.3	(0-30)	SW846 8260B
Bromomethane	94	(30 - 160)			SW846 8260B
	87	(30 - 160)	7.3	(0-30)	SW846 8260B
2-Butanone	95	(30 - 160)			SW846 8260B
	95	(30 - 160)	0.16	(0-33)	SW846 8260B
Bromochloromethane	100	(70 - 125)			SW846 8260B
	95	(70 - 125)	5.3	(0-30)	SW846 8260B
Carbon disulfide	103	(45 - 160)			SW846 8260B
	94	(45 - 160)	8.6	(0-36)	SW846 8260B
Carbon tetrachloride	125	(65 - 135)			SW846 8260B
	118	(65 - 135)	5.4	(0-30)	SW846 8260B
Chloroethane	89	(40 - 155)			SW846 8260B
	85	(40 - 155)	5.3	(0-30)	SW846 8260B
Chloroform	99	(70 - 125)			SW846 8260B
	95	(70 - 125)	4.4	(0-30)	SW846 8260B
Chloromethane	81	(50 - 130)			SW846 8260B
	74	(50 - 130)	8.7	(0-30)	SW846 8260B
1,2-Dibromoethane	106	(70 - 125)			SW846 8260B
	103	(70 - 125)	2.8	(0-30)	SW846 8260B
1,1-Dichloroethane	102	(75 - 125)			SW846 8260B
	100	(75 - 125)	2.7	(0-47)	SW846 8260B
1,2-Dichloroethane	98	(70 - 135)			SW846 8260B
	95	(70 - 135)	3.8	(0-43)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV4QN1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-113 LV4QN1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloropropane	102	(70 - 120)			SW846 8260B
	96	(70 - 120)	6.1	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	98	(70 - 125)			SW846 8260B
	93	(70 - 125)	5.0	(0-40)	SW846 8260B
trans-1,3-Dichloropropene	106	(65 - 125)			SW846 8260B
	102	(65 - 125)	4.7	(0-32)	SW846 8260B
Ethylbenzene	109	(75 - 125)			SW846 8260B
	104	(75 - 125)	4.9	(0-30)	SW846 8260B
2-Hexanone	110	(45 - 145)			SW846 8260B
	107	(45 - 145)	2.8	(0-31)	SW846 8260B
Methylene chloride	102	(55 - 140)			SW846 8260B
	95	(55 - 140)	7.2	(0-30)	SW846 8260B
4-Methyl-2-pentanone	106	(45 - 145)			SW846 8260B
	106	(45 - 145)	0.090	(0-39)	SW846 8260B
Styrene	109	(75 - 125)			SW846 8260B
	103	(75 - 125)	5.7	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	87	(55 - 130)			SW846 8260B
	104	(55 - 130)	18	(0-30)	SW846 8260B
Tetrachloroethene	105	(65 - 140)			SW846 8260B
	100	(65 - 140)	5.1	(0-30)	SW846 8260B
1,1,2-Trichloroethane	104	(60 - 125)			SW846 8260B
	99	(60 - 125)	4.6	(0-30)	SW846 8260B
1,1,1-Trichloroethane	107	(70 - 135)			SW846 8260B
	103	(70 - 135)	3.8	(0-30)	SW846 8260B
Xylenes (total)	111	(75 - 125)			SW846 8260B
	105	(75 - 125)	5.2	(0-30)	SW846 8260B
Vinyl chloride	90	(60 - 125)			SW846 8260B
	86	(60 - 125)	4.5	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro-propane	116	(40 - 135)			SW846 8260B
	112	(40 - 135)	3.4	(0-30)	SW846 8260B
1,3-Dichlorobenzene	102	(70 - 125)			SW846 8260B
	98	(70 - 125)	3.7	(0-30)	SW846 8260B
1,4-Dichlorobenzene	97	(70 - 125)			SW846 8260B
	94	(70 - 125)	3.5	(0-30)	SW846 8260B
1,2-Dichlorobenzene	101	(75 - 120)			SW846 8260B
	99	(75 - 120)	2.8	(0-30)	SW846 8260B
Dichlorodifluoromethane	75	(35 - 135)			SW846 8260B
	70	(35 - 135)	6.2	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	105	(65 - 135)			SW846 8260B
	99	(65 - 135)	6.0	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV4QN1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-113 LV4QN1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,2-Dichloroethene	102	(65 - 125)			SW846 8260B
	100	(65 - 125)	2.3	(0-30)	SW846 8260B
Naphthalene	110	(40 - 125)			SW846 8260B
	107	(40 - 125)	2.7	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	105	(75 - 125)			SW846 8260B
	103	(75 - 125)	1.8	(0-30)	SW846 8260B
Trichlorofluoromethane	117	(25 - 185)			SW846 8260B
	109	(25 - 185)	7.4	(0-30)	SW846 8260B
o-Xylene	112	(75 - 125)			SW846 8260B
	108	(75 - 125)	3.6	(0-30)	SW846 8260B
m-Xylene & p-Xylene	110	(80 - 125)			SW846 8260B
	104	(80 - 125)	6.1	(0-30)	SW846 8260B
Isopropylbenzene	110	(75 - 130)			SW846 8260B
	108	(75 - 130)	2.2	(0-30)	SW846 8260B
1,1-Dichloropropene	106	(70 - 135)			SW846 8260B
	100	(70 - 135)	6.5	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	103	(60 - 135)			SW846 8260B
	99	(60 - 135)	3.6	(0-30)	SW846 8260B
1,2,3-Trichloropropane	116	(65 - 130)			SW846 8260B
	114	(65 - 130)	1.7	(0-30)	SW846 8260B
1,2,4-Trichloro-benzene	110	(65 - 130)			SW846 8260B
	103	(65 - 130)	6.5	(0-30)	SW846 8260B
2,2-Dichloropropane	98	(65 - 135)			SW846 8260B
	94	(65 - 135)	4.2	(0-30)	SW846 8260B
2-Chlorotoluene	112	(70 - 130)			SW846 8260B
	108	(70 - 130)	3.9	(0-30)	SW846 8260B
4-Chlorotoluene	109	(75 - 125)			SW846 8260B
	106	(75 - 125)	3.1	(0-30)	SW846 8260B
Bromobenzene	103	(65 - 120)			SW846 8260B
	101	(65 - 120)	1.4	(0-30)	SW846 8260B
Dibromomethane	103	(75 - 130)			SW846 8260B
	96	(75 - 130)	6.5	(0-30)	SW846 8260B
Hexachlorobutadiene	100	(55 - 140)			SW846 8260B
	95	(55 - 140)	4.4	(0-50)	SW846 8260B
n-Butylbenzene	110	(65 - 140)			SW846 8260B
	105	(65 - 140)	4.0	(0-30)	SW846 8260B
n-Propylbenzene	111	(65 - 135)			SW846 8260B
	106	(65 - 135)	4.6	(0-30)	SW846 8260B
p-Isopropyltoluene	108	(75 - 135)			SW846 8260B
	104	(75 - 135)	3.5	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV4QN1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-113 LV4QN1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
sec-Butylbenzene	**109**	**(65 - 130)**			**SW846 8260B**
	106	**(65 - 130)**	**3.2**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**110**	**(65 - 130)**			**SW846 8260B**
	107	**(65 - 130)**	**3.4**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**113**	**(65 - 135)**			**SW846 8260B**
	109	**(65 - 135)**	**4.2**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**111**	**(65 - 135)**			**SW846 8260B**
	107	**(65 - 135)**	**3.4**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(61 - 130)
	90	(61 - 130)
Toluene-d8	104	(85 - 115)
	102	(85 - 115)
4-Bromofluorobenzene	101	(85 - 120)
	101	(85 - 120)
Dibromofluoromethane	94	(59 - 138)
	93	(59 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV4QN1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-113 LV4QN1AD-LCSD
Prep Date.....: 02/25/10 **Analysis Date..:** 02/25/10
Prep Batch #...: 0057113
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	50	54	ug/kg	108		SW846 8260B
	50	50	ug/kg	100	7.9	SW846 8260B
Trichloroethene	50	57	ug/kg	114		SW846 8260B
	50	47	ug/kg	94	19	SW846 8260B
Benzene	50	50	ug/kg	99		SW846 8260B
	50	47	ug/kg	95	4.9	SW846 8260B
Toluene	50	53	ug/kg	107		SW846 8260B
	50	51	ug/kg	102	4.6	SW846 8260B
Chlorobenzene	50	50	ug/kg	100		SW846 8260B
	50	48	ug/kg	97	3.9	SW846 8260B
Acetone	50	62	ug/kg	124		SW846 8260B
	50	63	ug/kg	125	1.0	SW846 8260B
Bromodichloromethane	50	52	ug/kg	103		SW846 8260B
	50	48	ug/kg	97	6.3	SW846 8260B
Bromoform	50	54	ug/kg	109		SW846 8260B
	50	53	ug/kg	105	3.3	SW846 8260B
Bromomethane	50	47	ug/kg	94		SW846 8260B
	50	44	ug/kg	87	7.3	SW846 8260B
2-Butanone	50	47	ug/kg	95		SW846 8260B
	50	47	ug/kg	95	0.16	SW846 8260B
Bromochloromethane	50	50	ug/kg	100		SW846 8260B
	50	47	ug/kg	95	5.3	SW846 8260B
Carbon disulfide	50	51	ug/kg	103		SW846 8260B
	50	47	ug/kg	94	8.6	SW846 8260B
Carbon tetrachloride	50	63	ug/kg	125		SW846 8260B
	50	59	ug/kg	118	5.4	SW846 8260B
Chloroethane	50	45	ug/kg	89		SW846 8260B
	50	42	ug/kg	85	5.3	SW846 8260B
Chloroform	50	49	ug/kg	99		SW846 8260B
	50	47	ug/kg	95	4.4	SW846 8260B
Chloromethane	50	40	ug/kg	81		SW846 8260B
	50	37	ug/kg	74	8.7	SW846 8260B
1,2-Dibromoethane	50	53	ug/kg	106		SW846 8260B
	50	51	ug/kg	103	2.8	SW846 8260B
1,1-Dichloroethane	50	51	ug/kg	102		SW846 8260B
	50	50	ug/kg	100	2.7	SW846 8260B
1,2-Dichloroethane	50	49	ug/kg	98		SW846 8260B
	50	47	ug/kg	95	3.8	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV4QN1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-113 LV4QN1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2-Dichloropropane	50	51	ug/kg	102		SW846 8260B
	50	48	ug/kg	96	6.1	SW846 8260B
cis-1,3-Dichloropropene	50	49	ug/kg	98		SW846 8260B
	50	47	ug/kg	93	5.0	SW846 8260B
trans-1,3-Dichloropropene	50	53	ug/kg	106		SW846 8260B
	50	51	ug/kg	102	4.7	SW846 8260B
Ethylbenzene	50	55	ug/kg	109		SW846 8260B
	50	52	ug/kg	104	4.9	SW846 8260B
2-Hexanone	50	55	ug/kg	110		SW846 8260B
	50	53	ug/kg	107	2.8	SW846 8260B
Methylene chloride	50	51	ug/kg	102		SW846 8260B
	50	47	ug/kg	95	7.2	SW846 8260B
4-Methyl-2-pentanone	50	53	ug/kg	106		SW846 8260B
	50	53	ug/kg	106	0.090	SW846 8260B
Styrene	50	55	ug/kg	109		SW846 8260B
	50	52	ug/kg	103	5.7	SW846 8260B
1,1,2,2-Tetrachloroethane	50	44	ug/kg	87		SW846 8260B
	50	52	ug/kg	104	18	SW846 8260B
Tetrachloroethene	50	52	ug/kg	105		SW846 8260B
	50	50	ug/kg	100	5.1	SW846 8260B
1,1,2-Trichloroethane	50	52	ug/kg	104		SW846 8260B
	50	49	ug/kg	99	4.6	SW846 8260B
1,1,1-Trichloroethane	50	53	ug/kg	107		SW846 8260B
	50	51	ug/kg	103	3.8	SW846 8260B
Xylenes (total)	150	170	ug/kg	111		SW846 8260B
	150	160	ug/kg	105	5.2	SW846 8260B
Vinyl chloride	50	45	ug/kg	90		SW846 8260B
	50	43	ug/kg	86	4.5	SW846 8260B
1,2-Dibromo-3-chloro-propane	50	58	ug/kg	116		SW846 8260B
	50	56	ug/kg	112	3.4	SW846 8260B
1,3-Dichlorobenzene	50	51	ug/kg	102		SW846 8260B
	50	49	ug/kg	98	3.7	SW846 8260B
1,4-Dichlorobenzene	50	48	ug/kg	97		SW846 8260B
	50	47	ug/kg	94	3.5	SW846 8260B
1,2-Dichlorobenzene	50	51	ug/kg	101		SW846 8260B
	50	49	ug/kg	99	2.8	SW846 8260B
Dichlorodifluoromethane	50	37	ug/kg	75		SW846 8260B
	50	35	ug/kg	70	6.2	SW846 8260B
trans-1,2-Dichloroethene	50	52	ug/kg	105		SW846 8260B
	50	49	ug/kg	99	6.0	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV4QN1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-113 LV4QN1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
cis-1,2-Dichloroethene	50	51	ug/kg	102		SW846 8260B
	50	50	ug/kg	100	2.3	SW846 8260B
Naphthalene	50	55	ug/kg	110		SW846 8260B
	50	54	ug/kg	107	2.7	SW846 8260B
1,1,1,2-Tetrachloroethane	50	52	ug/kg	105		SW846 8260B
	50	51	ug/kg	103	1.8	SW846 8260B
Trichlorofluoromethane	50	59	ug/kg	117		SW846 8260B
	50	54	ug/kg	109	7.4	SW846 8260B
o-Xylene	50	56	ug/kg	112		SW846 8260B
	50	54	ug/kg	108	3.6	SW846 8260B
m-Xylene & p-Xylene	100	110	ug/kg	110		SW846 8260B
	100	100	ug/kg	104	6.1	SW846 8260B
Isopropylbenzene	50	55	ug/kg	110		SW846 8260B
	50	54	ug/kg	108	2.2	SW846 8260B
1,1-Dichloropropene	50	53	ug/kg	106		SW846 8260B
	50	50	ug/kg	100	6.5	SW846 8260B
1,2,3-Trichlorobenzene	50	52	ug/kg	103		SW846 8260B
	50	50	ug/kg	99	3.6	SW846 8260B
1,2,3-Trichloropropane	50	58	ug/kg	116		SW846 8260B
	50	57	ug/kg	114	1.7	SW846 8260B
1,2,4-Trichloro-benzene	50	55	ug/kg	110		SW846 8260B
	50	52	ug/kg	103	6.5	SW846 8260B
2,2-Dichloropropane	50	49	ug/kg	98		SW846 8260B
	50	47	ug/kg	94	4.2	SW846 8260B
2-Chlorotoluene	50	56	ug/kg	112		SW846 8260B
	50	54	ug/kg	108	3.9	SW846 8260B
4-Chlorotoluene	50	55	ug/kg	109		SW846 8260B
	50	53	ug/kg	106	3.1	SW846 8260B
Bromobenzene	50	51	ug/kg	103		SW846 8260B
	50	51	ug/kg	101	1.4	SW846 8260B
Dibromomethane	50	51	ug/kg	103		SW846 8260B
	50	48	ug/kg	96	6.5	SW846 8260B
Hexachlorobutadiene	50	50	ug/kg	100		SW846 8260B
	50	48	ug/kg	95	4.4	SW846 8260B
n-Butylbenzene	50	55	ug/kg	110		SW846 8260B
	50	53	ug/kg	105	4.0	SW846 8260B
n-Propylbenzene	50	55	ug/kg	111		SW846 8260B
	50	53	ug/kg	106	4.6	SW846 8260B
p-Isopropyltoluene	50	54	ug/kg	108		SW846 8260B
	50	52	ug/kg	104	3.5	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV4QN1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0B260000-113 LV4QN1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
sec-Butylbenzene	**50**	**55**	**ug/kg**	**109**		**SW846 8260B**
	50	**53**	**ug/kg**	**106**	**3.2**	**SW846 8260B**
tert-Butylbenzene	**50**	**55**	**ug/kg**	**110**		**SW846 8260B**
	50	**53**	**ug/kg**	**107**	**3.4**	**SW846 8260B**
1,2,4-Trimethylbenzene	**50**	**57**	**ug/kg**	**113**		**SW846 8260B**
	50	**54**	**ug/kg**	**109**	**4.2**	**SW846 8260B**
1,3,5-Trimethylbenzene	**50**	**56**	**ug/kg**	**111**		**SW846 8260B**
	50	**54**	**ug/kg**	**107**	**3.4**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(61 - 130)
	90	(61 - 130)
Toluene-d8	104	(85 - 115)
	102	(85 - 115)
4-Bromofluorobenzene	101	(85 - 120)
	101	(85 - 120)
Dibromofluoromethane	94	(59 - 138)
	93	(59 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148185.D
Report Date: 25-Feb-2010 13:30

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148185.D
Lab Smp Id: CHECK
Inj Date : 25-FEB-2010 13:02
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECK
Misc Info : R00225A,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Meth Date : 25-Feb-2010 12:55 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 5 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1428528	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.332	(1.000)	1017901	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.308	(1.000)	556904	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	369739	234.931	46.986
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	362224	224.484	44.897
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1430803	259.288	51.858
$ 7 Bromofluorobenzene	95	10.327	10.326	(0.913)	523231	253.386	50.677
8 Dichlorodifluoromethane	85	1.310	1.298	(0.199)	270796	187.422	37.484
9 Chloromethane	50	1.452	1.463	(0.220)	422139	202.094	40.419
10 Vinyl Chloride	62	1.570	1.570	(0.238)	356383	226.198	45.240
11 Bromomethane	94	1.890	1.889	(0.286)	180348	234.445	46.889
12 Chloroethane	64	2.008	1.996	(0.304)	207148	222.947	44.589
13 Trichlorofluoromethane	101	2.268	2.280	(0.344)	444925	293.231	58.646
15 Acrolein	56	2.742	2.741	(0.416)	171632	955.939	191.19
16 Acetone	43	2.943	2.931	(0.446)	158327	309.425	61.885
17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	369815	270.956	54.191
18 Freon-113	151	2.896	2.895	(0.439)	333763	304.493	60.898
19 Iodomethane	142	3.038	3.037	(0.460)	607538	261.167	52.233
20 Carbon Disulfide	76	3.109	3.108	(0.471)	1002589	256.464	51.293
21 Methylene Chloride	84	3.511	3.511	(0.532)	392488	254.743	50.948

22 Acetonitrile	41	3.298	3.298 (0.500)	143684	758.229	151.64
23 Acrylonitrile	53	3.889	3.889 (0.589)	423565	753.360	150.67

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148185.D
Report Date: 25-Feb-2010 13:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	967731	272.905	54.581
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	415643	262.242	52.448
	26 Hexane	86	4.398	4.398	(0.666)	102243	279.533	55.907
	27 Vinyl acetate	43	4.741	4.694	(0.719)	928288	507.652	101.53
	154 Vinyl Acetate**2nd**	86	4.706	4.694	(0.713)	24388	149.686	29.937(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	726642	256.210	51.242
	29 tert-Butyl Alcohol	59	3.771	3.783	(0.571)	658989	5099.81	1020.0
	30 2-Butanone	43	5.380	5.380	(0.815)	173742	237.343	47.469
M	31 1,2-Dichloroethene (total)	96				829564	517.120	103.42
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	413921	254.878	50.976
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	271846	244.979	48.996
	34 Bromochloromethane	128	5.605	5.605	(0.849)	197465	250.166	50.033
	35 Chloroform	83	5.724	5.723	(0.867)	642156	247.012	49.402
	36 Tetrahydrofuran	42	5.676	5.676	(0.860)	116722	246.168	49.234
	37 1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	502074	267.093	53.418
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	523909	265.779	53.156
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	510778	312.627	62.525
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	472190	245.407	49.081
	41 Benzene	78	6.303	6.303	(0.955)	1535733	248.719	49.744
	42 Trichloroethene	130	6.966	6.966	(1.056)	485137	285.080	57.016
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	394862	255.264	51.053
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	7.274	7.273	(1.102)	201935	256.344	51.269
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	412150	258.105	51.621
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	172325	240.347	48.069
	48 cis-1,3-Dichloropropene	75	7.842	7.841	(1.188)	481319	245.077	49.015
	49 4-Methyl-2-pentanone	43	7.996	7.995	(0.857)	326627	265.716	53.143
	50 Toluene	91	8.149	8.149	(0.873)	1604134	266.816	53.363
	51 trans-1,3-Dichloropropene	75	8.339	8.338	(0.894)	420377	266.054	53.211
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	277667	258.897	51.779
	54 1,3-Dichloropropane	76	8.634	8.634	(0.925)	482599	268.581	53.716
	55 Tetrachloroethene	164	8.623	8.622	(0.924)	332244	261.758	52.352
	56 2-Hexanone	43	8.717	8.717	(0.934)	232162	274.143	54.828
	57 Dibromochloromethane	129	8.836	8.835	(0.947)	295491	263.947	52.789
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	273997	264.601	52.920
	59 Chlorobenzene	112	9.356	9.356	(1.003)	1038216	251.236	50.247
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	342437	261.276	52.255
	61 Ethylbenzene	106	9.451	9.451	(1.013)	580467	272.526	54.505
	62 m + p-Xylene	106	9.557	9.557	(1.024)	1421074	551.481	110.30
M	63 Xylenes (total)	106				2103129	832.397	166.48
	64 Xylene-o	106	9.889	9.889	(1.060)	682055	280.916	56.183
	65 Styrene	104	9.901	9.900	(1.061)	1056498	273.745	54.749
	66 Bromoform	173	10.054	10.054	(1.077)	184024	271.503	54.300
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	1798700	276.038	55.208
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	297197	217.552	43.510
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	230616	544.103	108.82
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	115242	291.091	58.218
	71 Bromobenzene	156	10.457	10.456	(0.925)	420853	256.664	51.333
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	527077	276.465	55.293
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	433773	279.669	55.934
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1465316	277.511	55.502

75	4-Chlorotoluene	126	10.705	10.717 (0.947)	446627	272.718	54.544
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1350431	276.203	55.241

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148185.D
Report Date: 25-Feb-2010 13:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1526972	283.311	56.662
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1923540	273.564	54.713
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1616149	270.439	54.088
80	1,3-Dichlorobenzene	146	11.250	11.249	(0.995)	792284	254.493	50.898
81	1,4-Dichlorobenzene	146	11.321	11.320	(1.001)	800302	242.318	48.464
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1423464	274.517	54.903
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	738578	253.391	50.678
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	68477	290.453	58.091
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	520183	275.780	55.156
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	301534	249.381	49.876
87	Naphthalene	128	13.178	13.178	(1.165)	1195649	275.427	55.085
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	478472	257.514	51.503
146	2-Methylnaphthalene	142	14.042	14.054	(1.242)	7745	14.4679	2.894
89	Ethyl Ether	59	2.600	2.600	(0.394)	311175	259.834	51.967
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.742	(0.719)	322755	254.429	50.886
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.303	6.303	(0.955)	535509	12148.5	2429.7(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	140515	448.188	89.638
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.972	(0.905)	829280	247.265	49.453
143	Methyl Acetate	43	3.393	3.392	(0.514)	300145	216.186	43.237
144	Methylcyclohexane	83	7.144	7.143	(1.082)	746777	260.427	52.085
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1498115	284.480	56.896(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148185.D
Report Date: 25-Feb-2010 13:30

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

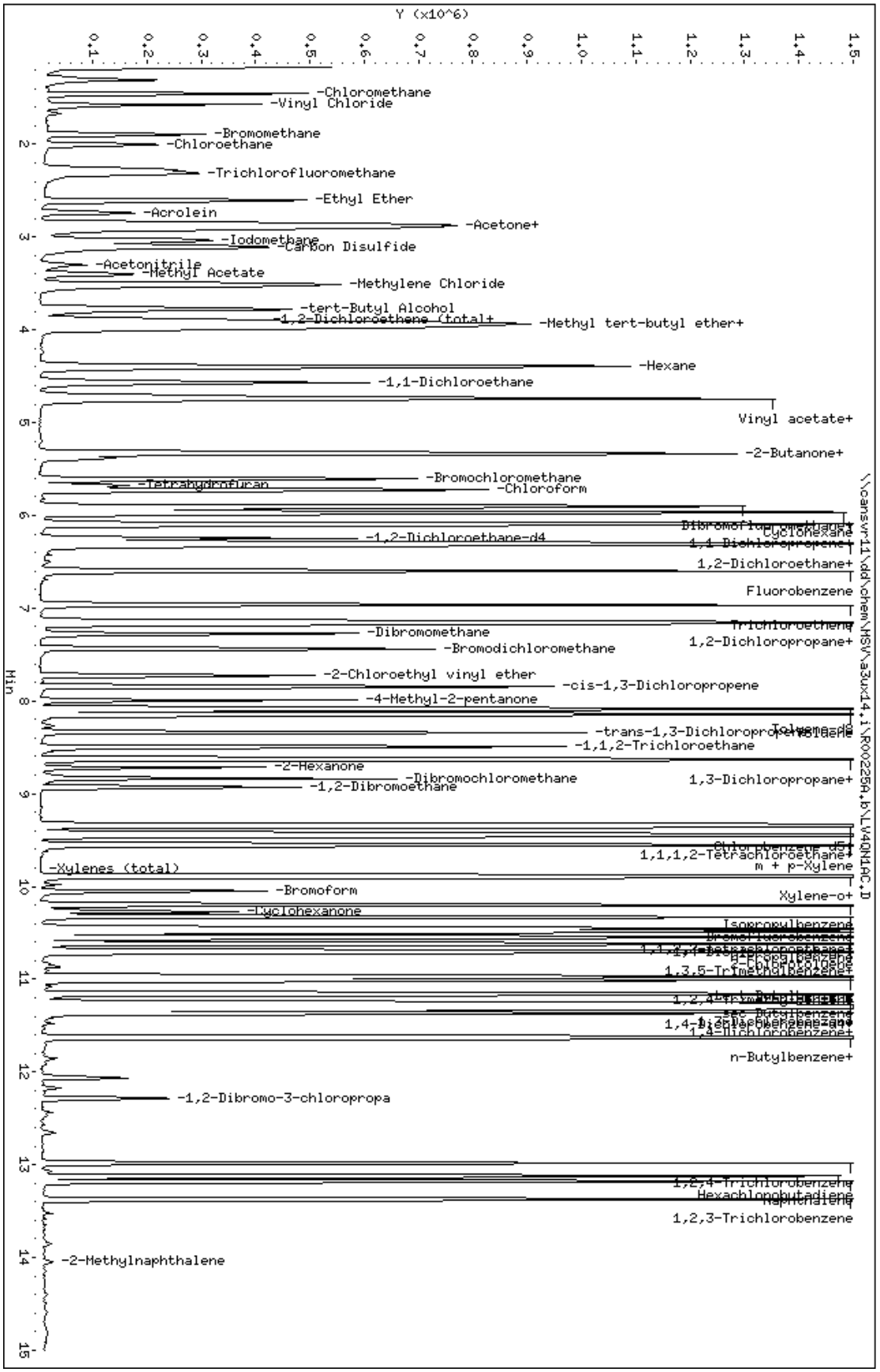
Instrument ID: a3ux14.i
Lab File ID: 148185.D
Lab Smp Id: CHECK
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,,2807,3

Calibration Date: 25-FEB-2010
Calibration Time: 11:54
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1478249	739125	2956498	1428528	-3.36
2 Chlorobenzene-d5	1013027	506514	2026054	1017901	0.48
3 1,4-Dichlorobenze	566289	283145	1132578	556904	-1.66

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total+
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Tetrahydrofuran
-Chloroform
-1,2-Dichloroethane-d4
Cyclohexane
1,2-Dichloroethane+
Fluorobenzene
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
1,3-Dichloropropane+
1,1,1,2-Tetrachloroethane+
-Xylenes (total)
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
1,3,5-Trimethylbenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,2,4-Trichlorobenzene
Hexachlorobutadiene
1,2,3-Trichlorobenzene
-2-Methylnaphthalene
Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AC.D
Date : 25-FEB-2010 13:02
Client ID:
Sample Info: CHECK
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AC.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148186.D
Report Date: 25-Feb-2010 13:43

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148186.D
Lab Smp Id: CHECKDUP
Inj Date : 25-FEB-2010 13:24
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP
Misc Info : R00225A,8260SUX14,,2807,3
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Meth Date : 25-Feb-2010 12:55 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 6 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1507353	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.332	(1.000)	1052965	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.308	(1.000)	575998	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	387789	233.514	46.703
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	382907	224.893	44.978
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1461670	256.061	51.212
$ 7 Bromofluorobenzene	95	10.326	10.326	(0.913)	536829	251.353	50.271
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	268526	176.132	35.226
9 Chloromethane	50	1.452	1.463	(0.220)	408123	185.167	37.033
10 Vinyl Chloride	62	1.570	1.570	(0.238)	359398	216.182	43.236
11 Bromomethane	94	1.890	1.889	(0.286)	176927	217.971	43.594
12 Chloroethane	64	2.008	1.996	(0.304)	207229	211.371	42.274
13 Trichlorofluoromethane	101	2.268	2.280	(0.344)	435784	272.187	54.437
15 Acrolein	56	2.730	2.741	(0.414)	196689	1038.21	207.64
16 Acetone	43	2.931	2.931	(0.444)	168486	312.631	62.526
17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	360550	250.354	50.071
18 Freon-113	151	2.895	2.895	(0.439)	325958	281.822	56.364
19 Iodomethane	142	3.037	3.037	(0.460)	604580	246.304	49.261
20 Carbon Disulfide	76	3.108	3.108	(0.471)	970717	235.326	47.065
21 Methylene Chloride	84	3.511	3.511	(0.532)	387716	237.012	47.402
22 Acetonitrile	41	3.298	3.298	(0.500)	147632	738.323	147.66

23 Acrylonitrile	53	3.889	3.889 (0.589)	441871	744.820	148.96
24 Methyl tert-butyl ether	73	3.972	3.972 (0.602)	990737	264.782	52.956

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148186.D
Report Date: 25-Feb-2010 13:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	412922	246.901	49.380
26	Hexane	86	4.398	4.398	(0.666)	99897	258.837	51.767
27	Vinyl acetate	43	4.694	4.694	(0.711)	751183	389.317	77.863
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	60376	351.190	70.238(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	746047	249.296	49.859
29	tert-Butyl Alcohol	59	3.771	3.783	(0.571)	769774	5645.64	1129.1
30	2-Butanone	43	5.380	5.380	(0.815)	183024	236.948	47.390
M 31	1,2-Dichloroethene (total)	96				839778	495.999	99.200
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	426856	249.098	49.820
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	275032	234.889	46.978
34	Bromochloromethane	128	5.605	5.605	(0.849)	197517	237.147	47.429
35	Chloroform	83	5.723	5.723	(0.867)	648545	236.424	47.285
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	119870	239.587	47.917
37	1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	509910	257.076	51.415
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	517896	248.990	49.798
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	510362	296.037	59.207
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	479825	236.335	47.267
41	Benzene	78	6.303	6.303	(0.955)	1543483	236.902	47.380
42	Trichloroethene	130	6.966	6.966	(1.056)	424138	236.201	47.240
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	392054	240.195	48.039
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.274	7.273	(1.102)	199657	240.198	48.040
46	Bromodichloromethane	83	7.439	7.439	(1.127)	408284	242.314	48.463
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	173063	229.203	45.840
48	cis-1,3-Dichloropropene	75	7.842	7.841	(1.188)	483151	233.145	46.629
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	337562	265.468	53.094
50	Toluene	91	8.137	8.149	(0.872)	1584675	254.802	50.960
51	trans-1,3-Dichloropropene	75	8.339	8.338	(0.893)	414999	253.904	50.781
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	274266	247.210	49.442
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	477841	257.078	51.416
55	Tetrachloroethene	164	8.623	8.622	(0.924)	326725	248.838	49.768
56	2-Hexanone	43	8.717	8.717	(0.934)	233528	266.573	53.314
57	Dibromochloromethane	129	8.836	8.835	(0.947)	291046	251.319	50.264
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	275619	257.304	51.461
59	Chlorobenzene	112	9.356	9.356	(1.003)	1032688	241.576	48.315
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	347990	256.671	51.334
61	Ethylbenzene	106	9.451	9.451	(1.013)	571625	259.438	51.888
62	m + p-Xylene	106	9.557	9.557	(1.024)	1383281	518.939	103.79
M 63	Xylenes (total)	106				2063836	789.903	157.98
64	Xylene-o	106	9.889	9.889	(1.060)	680555	270.964	54.193
65	Styrene	104	9.900	9.900	(1.061)	1032073	258.512	51.702
66	Bromoform	173	10.054	10.054	(1.077)	184143	262.631	52.526
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1819301	269.902	53.980
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	368229	260.613	52.122
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	236003	538.355	107.67
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	117204	286.233	57.247
71	Bromobenzene	156	10.457	10.456	(0.925)	429042	252.985	50.597
72	n-Propylbenzene	120	10.551	10.551	(0.933)	520646	264.039	52.808
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	431413	268.927	53.785
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1464569	268.175	53.635
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	447986	264.480	52.896

76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1349833	266.929	53.386
77	1,2,4-Trimethylbenzene	105	11.013	11.013 (0.974)	1515081	271.787	54.357

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148186.D
Report Date: 25-Feb-2010 13:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1926733	264.934	52.987
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1613712	261.080	52.216
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	789457	245.178	49.036
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	799070	233.925	46.785
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1414185	263.687	52.737
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	742570	246.316	49.263
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	68474	280.812	56.162
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	504072	258.380	51.676
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	298574	238.747	47.749
87	Naphthalene	128	13.178	13.178	(1.165)	1203307	268.002	53.600
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	477613	248.531	49.706
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	4449	13.2223	2.644
89	Ethyl Ether	59	2.600	2.600	(0.394)	362866	287.152	57.430
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.742	(0.719)	331330	247.531	49.506
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.303	6.303	(0.955)	606573	13041.1	2608.2(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	166105	505.849	101.17
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.960	5.972	(0.903)	819495	231.569	46.314
143	Methyl Acetate	43	3.392	3.392	(0.514)	318365	217.318	43.464
144	Methylcyclohexane	83	7.143	7.143	(1.082)	758549	250.699	50.140
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1503936	276.119	55.224(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148186.D
Report Date: 25-Feb-2010 13:43

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

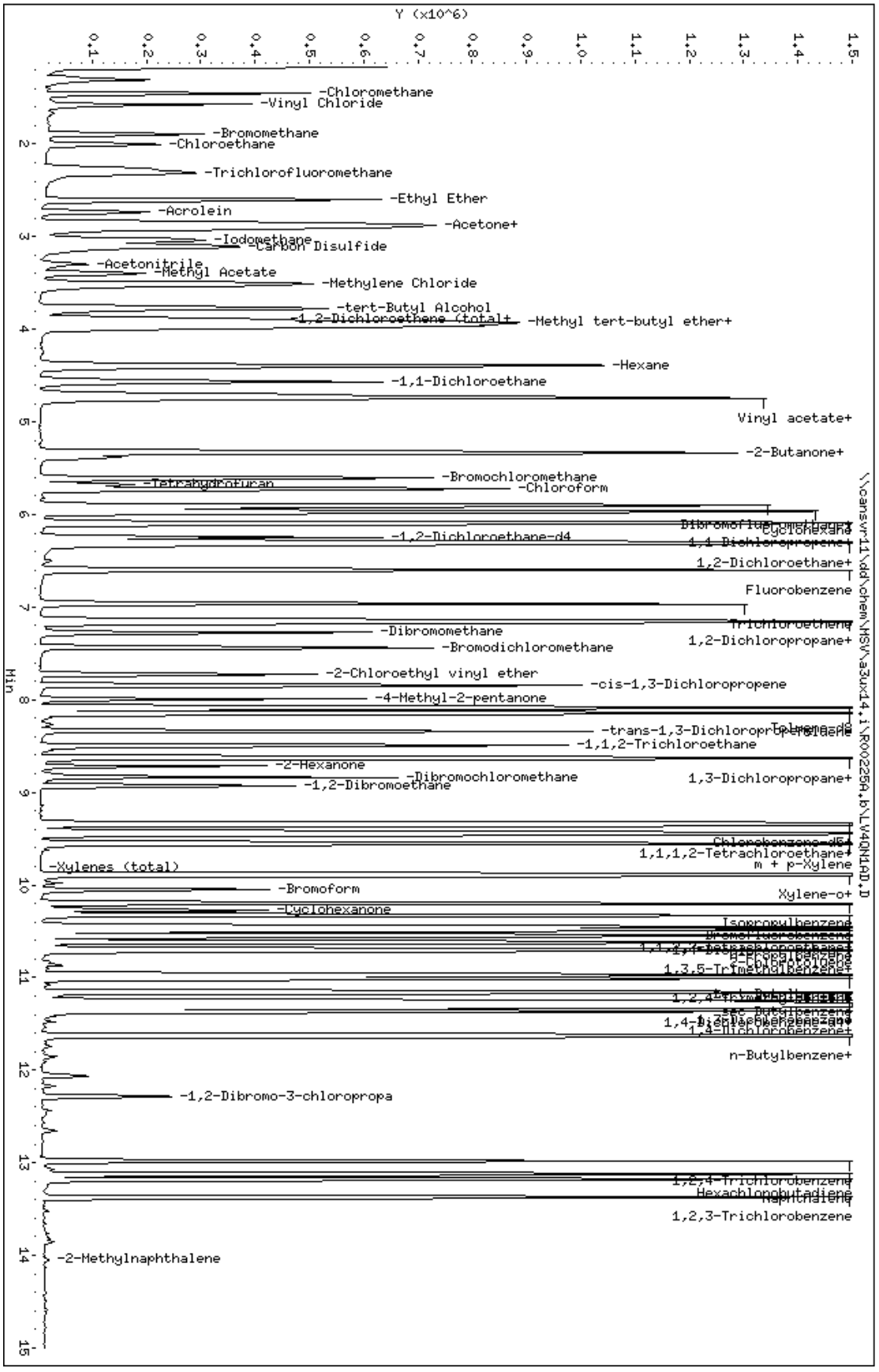
Instrument ID: a3ux14.i
Lab File ID: 148186.D
Lab Smp Id: CHECKDUP
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,,2807,3

Calibration Date: 25-FEB-2010
Calibration Time: 11:54
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1478249	739125	2956498	1507353	1.97
2 Chlorobenzene-d5	1013027	506514	2026054	1052965	3.94
3 1,4-Dichlorobenze	566289	283145	1132578	575998	1.71

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AD.D
Date : 25-FEB-2010 13:24
Client ID:
Sample Info: CHECKDUP
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	113	(65 - 135)			SW846 8260B
	111	(65 - 135)	1.9	(0-30)	SW846 8260B
Trichloroethene	102	(75 - 125)			SW846 8260B
	101	(75 - 125)	1.6	(0-30)	SW846 8260B
Benzene	102	(75 - 125)			SW846 8260B
	100	(75 - 125)	2.2	(0-30)	SW846 8260B
Toluene	105	(70 - 125)			SW846 8260B
	107	(70 - 125)	1.5	(0-30)	SW846 8260B
Chlorobenzene	101	(75 - 125)			SW846 8260B
	102	(75 - 125)	1.3	(0-30)	SW846 8260B
Acetone	125	(20 - 160)			SW846 8260B
	121	(20 - 160)	2.9	(0-37)	SW846 8260B
Bromodichloromethane	106	(70 - 130)			SW846 8260B
	102	(70 - 130)	3.8	(0-30)	SW846 8260B
Bromoform	110	(55 - 135)			SW846 8260B
	105	(55 - 135)	4.9	(0-30)	SW846 8260B
Bromomethane	102	(30 - 160)			SW846 8260B
	102	(30 - 160)	0.20	(0-30)	SW846 8260B
2-Butanone	93	(30 - 160)			SW846 8260B
	87	(30 - 160)	7.2	(0-33)	SW846 8260B
Bromochloromethane	104	(70 - 125)			SW846 8260B
	100	(70 - 125)	3.4	(0-30)	SW846 8260B
Carbon disulfide	109	(45 - 160)			SW846 8260B
	109	(45 - 160)	0.040	(0-36)	SW846 8260B
Carbon tetrachloride	134	(65 - 135)			SW846 8260B
	131	(65 - 135)	2.7	(0-30)	SW846 8260B
Chloroethane	94	(40 - 155)			SW846 8260B
	94	(40 - 155)	0.15	(0-30)	SW846 8260B
Chloroform	104	(70 - 125)			SW846 8260B
	101	(70 - 125)	3.6	(0-30)	SW846 8260B
Chloromethane	81	(50 - 130)			SW846 8260B
	83	(50 - 130)	1.6	(0-30)	SW846 8260B
1,2-Dibromoethane	103	(70 - 125)			SW846 8260B
	102	(70 - 125)	1.3	(0-30)	SW846 8260B
1,1-Dichloroethane	108	(75 - 125)			SW846 8260B
	107	(75 - 125)	1.2	(0-47)	SW846 8260B
1,2-Dichloroethane	103	(70 - 135)			SW846 8260B
	99	(70 - 135)	3.8	(0-43)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloropropane	100	(70 - 120)			SW846 8260B
	99	(70 - 120)	0.86	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	99	(70 - 125)			SW846 8260B
	95	(70 - 125)	4.2	(0-40)	SW846 8260B
trans-1,3-Dichloropropene	101	(65 - 125)			SW846 8260B
	100	(65 - 125)	0.92	(0-32)	SW846 8260B
Ethylbenzene	110	(75 - 125)			SW846 8260B
	110	(75 - 125)	0.21	(0-30)	SW846 8260B
2-Hexanone	104	(45 - 145)			SW846 8260B
	95	(45 - 145)	8.3	(0-31)	SW846 8260B
Methylene chloride	105	(55 - 140)			SW846 8260B
	104	(55 - 140)	0.86	(0-30)	SW846 8260B
4-Methyl-2-pentanone	101	(45 - 145)			SW846 8260B
	92	(45 - 145)	9.5	(0-39)	SW846 8260B
Styrene	111	(75 - 125)			SW846 8260B
	110	(75 - 125)	0.75	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	103	(55 - 130)			SW846 8260B
	99	(55 - 130)	3.6	(0-30)	SW846 8260B
Tetrachloroethene	104	(65 - 140)			SW846 8260B
	105	(65 - 140)	0.61	(0-30)	SW846 8260B
1,1,2-Trichloroethane	101	(60 - 125)			SW846 8260B
	98	(60 - 125)	2.9	(0-30)	SW846 8260B
1,1,1-Trichloroethane	115	(70 - 135)			SW846 8260B
	114	(70 - 135)	0.48	(0-30)	SW846 8260B
Xylenes (total)	113	(75 - 125)			SW846 8260B
	114	(75 - 125)	0.060	(0-30)	SW846 8260B
Vinyl chloride	93	(60 - 125)			SW846 8260B
	94	(60 - 125)	0.36	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro-propane	114	(40 - 135)			SW846 8260B
	103	(40 - 135)	10	(0-30)	SW846 8260B
1,3-Dichlorobenzene	103	(70 - 125)			SW846 8260B
	105	(70 - 125)	2.7	(0-30)	SW846 8260B
1,4-Dichlorobenzene	98	(70 - 125)			SW846 8260B
	99	(70 - 125)	1.4	(0-30)	SW846 8260B
1,2-Dichlorobenzene	102	(75 - 120)			SW846 8260B
	103	(75 - 120)	1.3	(0-30)	SW846 8260B
Dichlorodifluoromethane	69	(35 - 135)			SW846 8260B
	67	(35 - 135)	2.6	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	111	(65 - 135)			SW846 8260B
	109	(65 - 135)	1.7	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,2-Dichloroethene	106	(65 - 125)			SW846 8260B
	104	(65 - 125)	1.5	(0-30)	SW846 8260B
Naphthalene	109	(40 - 125)			SW846 8260B
	103	(40 - 125)	5.6	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	107	(75 - 125)			SW846 8260B
	108	(75 - 125)	0.93	(0-30)	SW846 8260B
Trichlorofluoromethane	121	(25 - 185)			SW846 8260B
	122	(25 - 185)	0.22	(0-30)	SW846 8260B
o-Xylene	115	(75 - 125)			SW846 8260B
	115	(75 - 125)	0.36	(0-30)	SW846 8260B
m-Xylene & p-Xylene	113	(80 - 125)			SW846 8260B
	113	(80 - 125)	0.080	(0-30)	SW846 8260B
Isopropylbenzene	114	(75 - 130)			SW846 8260B
	115	(75 - 130)	0.23	(0-30)	SW846 8260B
1,1-Dichloropropene	110	(70 - 135)			SW846 8260B
	107	(70 - 135)	2.3	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	103	(60 - 135)			SW846 8260B
	104	(60 - 135)	1.0	(0-30)	SW846 8260B
1,2,3-Trichloropropane	111	(65 - 130)			SW846 8260B
	110	(65 - 130)	0.88	(0-30)	SW846 8260B
1,2,4-Trichloro-benzene	106	(65 - 130)			SW846 8260B
	111	(65 - 130)	4.2	(0-30)	SW846 8260B
2,2-Dichloropropane	110	(65 - 135)			SW846 8260B
	108	(65 - 135)	1.7	(0-30)	SW846 8260B
2-Chlorotoluene	112	(70 - 130)			SW846 8260B
	116	(70 - 130)	3.4	(0-30)	SW846 8260B
4-Chlorotoluene	109	(75 - 125)			SW846 8260B
	113	(75 - 125)	2.9	(0-30)	SW846 8260B
Bromobenzene	103	(65 - 120)			SW846 8260B
	105	(65 - 120)	2.2	(0-30)	SW846 8260B
Dibromomethane	102	(75 - 130)			SW846 8260B
	97	(75 - 130)	4.7	(0-30)	SW846 8260B
Hexachlorobutadiene	100	(55 - 140)			SW846 8260B
	104	(55 - 140)	4.0	(0-50)	SW846 8260B
n-Butylbenzene	110	(65 - 140)			SW846 8260B
	114	(65 - 140)	3.7	(0-30)	SW846 8260B
n-Propylbenzene	109	(65 - 135)			SW846 8260B
	115	(65 - 135)	4.7	(0-30)	SW846 8260B
p-Isopropyltoluene	110	(75 - 135)			SW846 8260B
	114	(75 - 135)	3.4	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
sec-Butylbenzene	**110**	**(65 - 130)**			**SW846 8260B**
	113	**(65 - 130)**	**2.8**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**111**	**(65 - 130)**			**SW846 8260B**
	115	**(65 - 130)**	**3.8**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**113**	**(65 - 135)**			**SW846 8260B**
	117	**(65 - 135)**	**3.4**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**111**	**(65 - 135)**			**SW846 8260B**
	114	**(65 - 135)**	**3.4**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 130)
	90	(61 - 130)
Toluene-d8	101	(85 - 115)
	101	(85 - 115)
4-Bromofluorobenzene	101	(85 - 120)
	104	(85 - 120)
Dibromofluoromethane	97	(59 - 138)
	94	(59 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	50	57	ug/kg	113		SW846 8260B
	50	56	ug/kg	111	1.9	SW846 8260B
Trichloroethene	50	51	ug/kg	102		SW846 8260B
	50	50	ug/kg	101	1.6	SW846 8260B
Benzene	50	51	ug/kg	102		SW846 8260B
	50	50	ug/kg	100	2.2	SW846 8260B
Toluene	50	52	ug/kg	105		SW846 8260B
	50	53	ug/kg	107	1.5	SW846 8260B
Chlorobenzene	50	51	ug/kg	101		SW846 8260B
	50	51	ug/kg	102	1.3	SW846 8260B
Acetone	50	62	ug/kg	125		SW846 8260B
	50	61	ug/kg	121	2.9	SW846 8260B
Bromodichloromethane	50	53	ug/kg	106		SW846 8260B
	50	51	ug/kg	102	3.8	SW846 8260B
Bromoform	50	55	ug/kg	110		SW846 8260B
	50	52	ug/kg	105	4.9	SW846 8260B
Bromomethane	50	51	ug/kg	102		SW846 8260B
	50	51	ug/kg	102	0.20	SW846 8260B
2-Butanone	50	47	ug/kg	93		SW846 8260B
	50	43	ug/kg	87	7.2	SW846 8260B
Bromochloromethane	50	52	ug/kg	104		SW846 8260B
	50	50	ug/kg	100	3.4	SW846 8260B
Carbon disulfide	50	55	ug/kg	109		SW846 8260B
	50	55	ug/kg	109	0.040	SW846 8260B
Carbon tetrachloride	50	67	ug/kg	134		SW846 8260B
	50	65	ug/kg	131	2.7	SW846 8260B
Chloroethane	50	47	ug/kg	94		SW846 8260B
	50	47	ug/kg	94	0.15	SW846 8260B
Chloroform	50	52	ug/kg	104		SW846 8260B
	50	50	ug/kg	101	3.6	SW846 8260B
Chloromethane	50	41	ug/kg	81		SW846 8260B
	50	41	ug/kg	83	1.6	SW846 8260B
1,2-Dibromoethane	50	52	ug/kg	103		SW846 8260B
	50	51	ug/kg	102	1.3	SW846 8260B
1,1-Dichloroethane	50	54	ug/kg	108		SW846 8260B
	50	53	ug/kg	107	1.2	SW846 8260B
1,2-Dichloroethane	50	51	ug/kg	103		SW846 8260B
	50	50	ug/kg	99	3.8	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2-Dichloropropane	50	50	ug/kg	100		SW846 8260B
	50	49	ug/kg	99	0.86	SW846 8260B
cis-1,3-Dichloropropene	50	50	ug/kg	99		SW846 8260B
	50	48	ug/kg	95	4.2	SW846 8260B
trans-1,3-Dichloropropene	50	50	ug/kg	101		SW846 8260B
	50	50	ug/kg	100	0.92	SW846 8260B
Ethylbenzene	50	55	ug/kg	110		SW846 8260B
	50	55	ug/kg	110	0.21	SW846 8260B
2-Hexanone	50	52	ug/kg	104		SW846 8260B
	50	48	ug/kg	95	8.3	SW846 8260B
Methylene chloride	50	52	ug/kg	105		SW846 8260B
	50	52	ug/kg	104	0.86	SW846 8260B
4-Methyl-2-pentanone	50	51	ug/kg	101		SW846 8260B
	50	46	ug/kg	92	9.5	SW846 8260B
Styrene	50	56	ug/kg	111		SW846 8260B
	50	55	ug/kg	110	0.75	SW846 8260B
1,1,2,2-Tetrachloroethane	50	52	ug/kg	103		SW846 8260B
	50	50	ug/kg	99	3.6	SW846 8260B
Tetrachloroethene	50	52	ug/kg	104		SW846 8260B
	50	52	ug/kg	105	0.61	SW846 8260B
1,1,2-Trichloroethane	50	50	ug/kg	101		SW846 8260B
	50	49	ug/kg	98	2.9	SW846 8260B
1,1,1-Trichloroethane	50	58	ug/kg	115		SW846 8260B
	50	57	ug/kg	114	0.48	SW846 8260B
Xylenes (total)	150	170	ug/kg	113		SW846 8260B
	150	170	ug/kg	114	0.060	SW846 8260B
Vinyl chloride	50	47	ug/kg	93		SW846 8260B
	50	47	ug/kg	94	0.36	SW846 8260B
1,2-Dibromo-3-chloro-propane	50	57	ug/kg	114		SW846 8260B
	50	52	ug/kg	103	10	SW846 8260B
1,3-Dichlorobenzene	50	51	ug/kg	103		SW846 8260B
	50	53	ug/kg	105	2.7	SW846 8260B
1,4-Dichlorobenzene	50	49	ug/kg	98		SW846 8260B
	50	50	ug/kg	99	1.4	SW846 8260B
1,2-Dichlorobenzene	50	51	ug/kg	102		SW846 8260B
	50	52	ug/kg	103	1.3	SW846 8260B
Dichlorodifluoromethane	50	35	ug/kg	69		SW846 8260B
	50	34	ug/kg	67	2.6	SW846 8260B
trans-1,2-Dichloroethene	50	56	ug/kg	111		SW846 8260B
	50	55	ug/kg	109	1.7	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
cis-1,2-Dichloroethene	50	53	ug/kg	106		SW846 8260B
	50	52	ug/kg	104	1.5	SW846 8260B
Naphthalene	50	54	ug/kg	109		SW846 8260B
	50	52	ug/kg	103	5.6	SW846 8260B
1,1,1,2-Tetrachloroethane	50	53	ug/kg	107		SW846 8260B
	50	54	ug/kg	108	0.93	SW846 8260B
Trichlorofluoromethane	50	61	ug/kg	121		SW846 8260B
	50	61	ug/kg	122	0.22	SW846 8260B
o-Xylene	50	57	ug/kg	115		SW846 8260B
	50	58	ug/kg	115	0.36	SW846 8260B
m-Xylene & p-Xylene	100	110	ug/kg	113		SW846 8260B
	100	110	ug/kg	113	0.080	SW846 8260B
Isopropylbenzene	50	57	ug/kg	114		SW846 8260B
	50	57	ug/kg	115	0.23	SW846 8260B
1,1-Dichloropropene	50	55	ug/kg	110		SW846 8260B
	50	54	ug/kg	107	2.3	SW846 8260B
1,2,3-Trichlorobenzene	50	52	ug/kg	103		SW846 8260B
	50	52	ug/kg	104	1.0	SW846 8260B
1,2,3-Trichloropropane	50	55	ug/kg	111		SW846 8260B
	50	55	ug/kg	110	0.88	SW846 8260B
1,2,4-Trichloro-benzene	50	53	ug/kg	106		SW846 8260B
	50	56	ug/kg	111	4.2	SW846 8260B
2,2-Dichloropropane	50	55	ug/kg	110		SW846 8260B
	50	54	ug/kg	108	1.7	SW846 8260B
2-Chlorotoluene	50	56	ug/kg	112		SW846 8260B
	50	58	ug/kg	116	3.4	SW846 8260B
4-Chlorotoluene	50	55	ug/kg	109		SW846 8260B
	50	56	ug/kg	113	2.9	SW846 8260B
Bromobenzene	50	51	ug/kg	103		SW846 8260B
	50	53	ug/kg	105	2.2	SW846 8260B
Dibromomethane	50	51	ug/kg	102		SW846 8260B
	50	49	ug/kg	97	4.7	SW846 8260B
Hexachlorobutadiene	50	50	ug/kg	100		SW846 8260B
	50	52	ug/kg	104	4.0	SW846 8260B
n-Butylbenzene	50	55	ug/kg	110		SW846 8260B
	50	57	ug/kg	114	3.7	SW846 8260B
n-Propylbenzene	50	55	ug/kg	109		SW846 8260B
	50	57	ug/kg	115	4.7	SW846 8260B
p-Isopropyltoluene	50	55	ug/kg	110		SW846 8260B
	50	57	ug/kg	114	3.4	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
sec-Butylbenzene	**50**	**55**	**ug/kg**	**110**		**SW846 8260B**
	50	**57**	**ug/kg**	**113**	**2.8**	**SW846 8260B**
tert-Butylbenzene	**50**	**55**	**ug/kg**	**111**		**SW846 8260B**
	50	**58**	**ug/kg**	**115**	**3.8**	**SW846 8260B**
1,2,4-Trimethylbenzene	**50**	**56**	**ug/kg**	**113**		**SW846 8260B**
	50	**58**	**ug/kg**	**117**	**3.4**	**SW846 8260B**
1,3,5-Trimethylbenzene	**50**	**55**	**ug/kg**	**111**		**SW846 8260B**
	50	**57**	**ug/kg**	**114**	**3.4**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 130)
	90	(61 - 130)
Toluene-d8	101	(85 - 115)
	101	(85 - 115)
4-Bromofluorobenzene	101	(85 - 120)
	104	(85 - 120)
Dibromofluoromethane	97	(59 - 138)
	94	(59 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Lab Smp Id: CHECK
Inj Date : 26-FEB-2010 12:36
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECK
Misc Info : R00226A,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 5 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1286060	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	949703	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	535712	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	341945	241.339	48.268
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	349141	240.346	48.069
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1301452	252.783	50.557
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	502337	252.891	50.578
8 Dichlorodifluoromethane	85	1.310	1.298	(0.199)	224779	172.807	34.561(R)
9 Chloromethane	50	1.452	1.452	(0.220)	382055	203.166	40.633
10 Vinyl Chloride	62	1.570	1.570	(0.238)	331269	233.550	46.710
11 Bromomethane	94	1.890	1.878	(0.286)	175842	253.910	50.782
12 Chloroethane	64	2.008	1.996	(0.304)	197513	236.126	47.225
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	414848	303.696	60.739
15 Acrolein	56	2.730	2.730	(0.414)	218882	1354.16	270.83(R)
16 Acetone	43	2.931	2.931	(0.444)	143374	311.636	62.327
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	348236	283.410	56.682
18 Freon-113	151	2.895	2.896	(0.439)	320099	324.377	64.875(R)
19 Iodomethane	142	3.026	3.026	(0.459)	594017	283.642	56.728
20 Carbon Disulfide	76	3.097	3.097	(0.469)	962348	273.440	54.688
21 Methylene Chloride	84	3.511	3.499	(0.532)	362158	261.673	52.334

22 Acetonitrile	41	3.298	3.286 (0.500)	131131	768.644	153.73
23 Acrylonitrile	53	3.889	3.890 (0.589)	393214	776.853	155.37

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	892083	279.441	55.888
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	396153	277.634	55.527
26	Hexane	86	4.398	4.387	(0.666)	95334	289.518	57.904
27	Vinyl acetate	43	4.694	4.694	(0.711)	694272	421.736	84.347(R)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	55795	380.388	76.078(AR)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	688940	269.827	53.965
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	598473	5144.56	1028.9
30	2-Butanone	43	5.380	5.380	(0.815)	153257	232.552	46.510
M 31	1,2-Dichloroethene (total)	96				783789	542.768	108.55
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	387636	265.134	53.027
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	275512	275.787	55.157
34	Bromochloromethane	128	5.605	5.605	(0.849)	184216	259.235	51.847
35	Chloroform	83	5.724	5.724	(0.867)	610320	260.773	52.154
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	103989	243.609	48.722
37	1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	486701	287.597	57.519
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	487609	274.767	54.953
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	494386	336.115	67.223(R)
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	445688	257.294	51.459
41	Benzene	78	6.303	6.303	(0.955)	1424072	256.184	51.237
42	Trichloroethene	130	6.966	6.966	(1.056)	392343	256.091	51.218
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	346565	248.861	49.772
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.274	7.274	(1.102)	181140	255.419	51.084
46	Bromodichloromethane	83	7.439	7.439	(1.127)	380658	264.792	52.958
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	141721	220.365	44.073
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	438087	247.775	49.555
49	4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	290842	253.595	50.719
50	Toluene	91	8.137	8.138	(0.872)	1471053	262.251	52.450
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	371153	251.768	50.354
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	251429	251.267	50.253
54	1,3-Dichloropropane	76	8.634	8.635	(0.925)	430696	256.908	51.382
55	Tetrachloroethene	164	8.623	8.623	(0.924)	307613	259.756	51.951
56	2-Hexanone	43	8.717	8.717	(0.934)	204954	259.394	51.879
57	Dibromochloromethane	129	8.836	8.836	(0.947)	270946	259.402	51.880
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	249168	257.903	51.580
59	Chlorobenzene	112	9.356	9.356	(1.003)	974807	252.831	50.566
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	326624	267.107	53.421
61	Ethylbenzene	106	9.451	9.451	(1.013)	547702	275.609	55.122
62	m + p-Xylene	106	9.557	9.557	(1.024)	1356126	564.069	112.81
M 63	Xylenes (total)	106				2005757	850.843	170.17
64	Xylene-o	106	9.889	9.889	(1.060)	649631	286.775	57.355
65	Styrene	104	9.901	9.901	(1.061)	1001340	278.085	55.617
66	Bromoform	173	10.054	10.054	(1.077)	173841	274.897	54.979
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1736422	285.616	57.123
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	338907	257.898	51.580
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	215211	527.843	105.57
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	105660	277.446	55.489
71	Bromobenzene	156	10.457	10.457	(0.925)	405505	257.087	51.417
72	n-Propylbenzene	120	10.551	10.551	(0.933)	501206	273.295	54.659
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	417132	279.579	55.916
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1404768	276.569	55.314

75	4-Chlorotoluene	126	10.717	10.717 (0.948)	431061	273.625	54.725
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1303478	277.146	55.429

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1463020	282.184	56.437
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1864638	275.677	55.135
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1584363	275.608	55.122
80	1,3-Dichlorobenzene	146	11.249	11.250	(0.995)	768494	256.616	51.323
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	777928	244.861	48.972
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1374435	275.547	55.109
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	714407	254.795	50.959
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	64744	285.483	57.096
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	482607	265.980	53.196
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	291659	250.756	50.151
87	Naphthalene	128	13.178	13.178	(1.165)	1137873	272.487	54.497
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	460330	257.551	51.510
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	7729	14.5727	2.914
89	Ethyl Ether	59	2.600	2.600	(0.394)	285772	265.057	53.011
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.741	(0.719)	308717	270.323	54.064
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.487	5.487	(0.831)	4965	3.71898	0.7438
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.303	6.292	(0.955)	476035	11995.6	2399.1(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	117254	394.722	78.944(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	777234	257.419	51.484
143	Methyl Acetate	43	3.392	3.393	(0.514)	269559	215.664	43.133
144	Methylcyclohexane	83	7.143	7.144	(1.082)	715850	277.297	55.459
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1447692	285.780	57.156(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

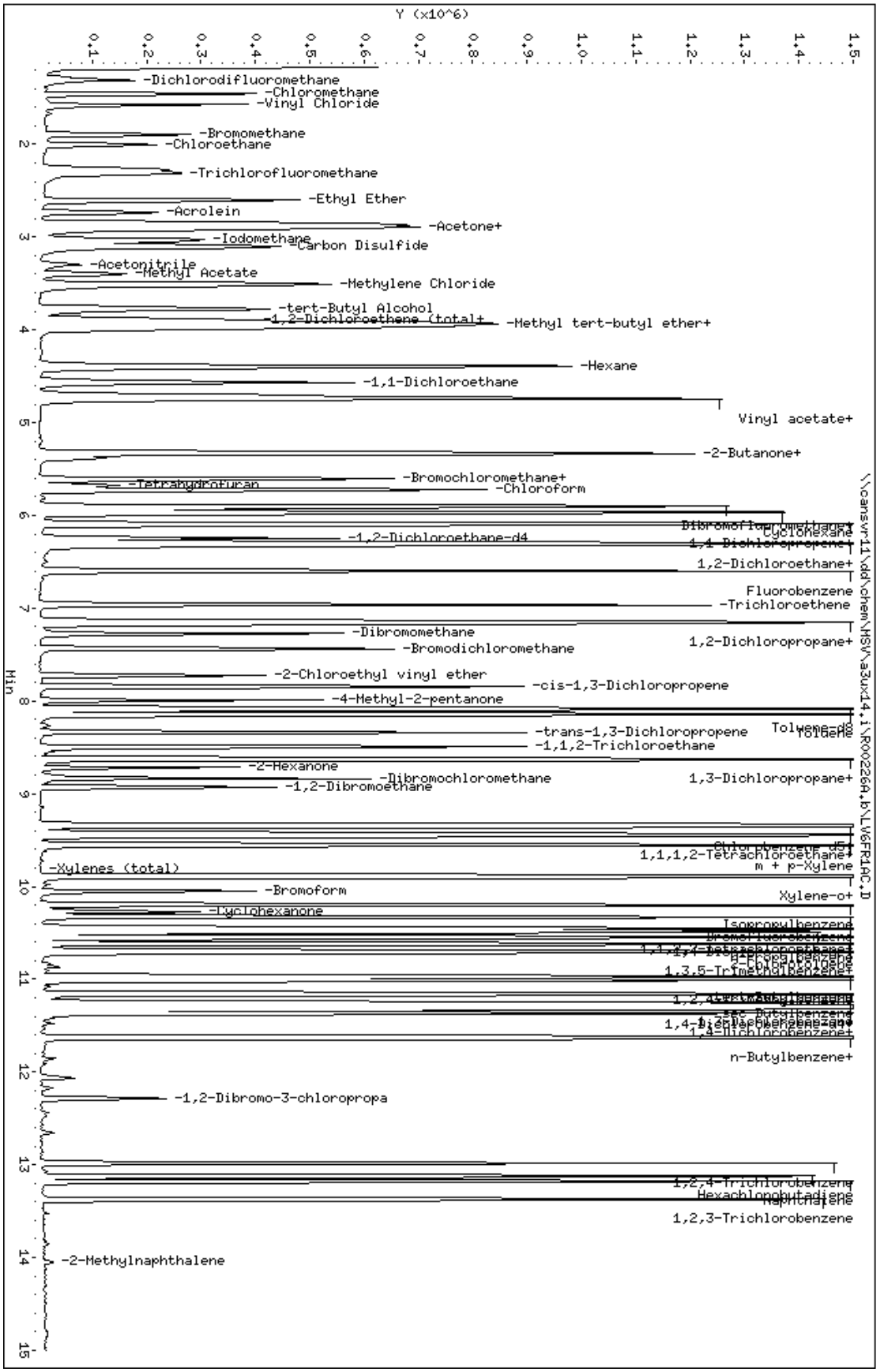
Instrument ID: a3ux14.i
Lab File ID: 148216.D
Lab Smp Id: CHECK
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1286060	-1.98
2 Chlorobenzene-d5	965181	482591	1930362	949703	-1.60
3 1,4-Dichlorobenze	531218	265609	1062436	535712	0.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AC.D
Date : 26-FEB-2010 12:36
Client ID:
Sample Info: CHECK
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AC.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Lab Smp Id: CHECKDUP
Inj Date : 26-FEB-2010 12:57
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP
Misc Info : R00226A,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 6 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1347350	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	961680	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	524167	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	349413	235.392	47.078
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	342364	224.960	44.992
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1315441	252.318	50.464
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	504450	259.548	51.910
8 Dichlorodifluoromethane	85	1.310	1.298	(0.199)	229456	168.378	33.676(R)
9 Chloromethane	50	1.452	1.452	(0.220)	406749	206.459	41.292
10 Vinyl Chloride	62	1.570	1.570	(0.238)	348338	234.412	46.882
11 Bromomethane	94	1.890	1.878	(0.286)	184602	254.434	50.887
12 Chloroethane	64	2.008	1.996	(0.304)	206597	235.751	47.150
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	435584	304.371	60.874
15 Acrolein	56	2.730	2.730	(0.414)	203841	1203.74	240.75(R)
16 Acetone	43	2.931	2.931	(0.444)	146619	302.590	60.518
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	357920	278.041	55.608
18 Freon-113	151	2.895	2.896	(0.439)	325097	314.456	62.891(R)
19 Iodomethane	142	3.026	3.026	(0.459)	614555	280.100	56.020
20 Carbon Disulfide	76	3.097	3.097	(0.469)	1007767	273.320	54.664
21 Methylene Chloride	84	3.511	3.499	(0.532)	376413	259.418	51.884

22 Acetonitrile	41	3.298	3.286 (0.500)	126258	706.414	141.28
23 Acrylonitrile	53	3.889	3.890 (0.589)	375004	707.174	141.43

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	890455	266.242	53.248
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	407842	272.824	54.565
26	Hexane	86	4.398	4.387	(0.666)	98814	286.435	57.287
27	Vinyl acetate	43	4.694	4.694	(0.711)	650054	376.913	75.383(R)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	52462	341.395	68.279(AR)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	712829	266.483	53.297
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	566722	4650.02	930.00
30	2-Butanone	43	5.380	5.380	(0.815)	149466	216.482	43.296
M 31	1,2-Dichloroethene (total)	96				807885	533.997	106.80
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	400043	261.174	52.235
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	283868	271.225	54.245
34	Bromochloromethane	128	5.605	5.605	(0.849)	186600	250.645	50.129
35	Chloroform	83	5.724	5.724	(0.867)	616805	251.555	50.311
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	99878	223.335	44.667
37	1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	507410	286.195	57.239
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	499265	268.538	53.708
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	503973	327.046	65.409(R)
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	449389	247.629	49.526
41	Benzene	78	6.303	6.303	(0.955)	1460044	250.707	50.141
42	Trichloroethene	130	6.966	6.966	(1.056)	404692	252.136	50.427
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	359965	246.725	49.345
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.274	7.274	(1.102)	180992	243.601	48.720
46	Bromodichloromethane	83	7.439	7.439	(1.127)	384020	254.979	50.996
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	134220	200.102	40.020
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	440221	237.656	47.531
49	4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	267896	230.679	46.136
50	Toluene	91	8.137	8.138	(0.872)	1512712	266.319	53.264
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	372391	249.462	49.892
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	247213	243.977	48.795
54	1,3-Dichloropropane	76	8.634	8.635	(0.925)	431839	254.382	50.876
55	Tetrachloroethene	164	8.623	8.623	(0.924)	313403	261.349	52.270
56	2-Hexanone	43	8.717	8.717	(0.934)	190968	238.683	47.736
57	Dibromochloromethane	129	8.836	8.836	(0.947)	272368	257.515	51.503
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	249092	254.613	50.922
59	Chlorobenzene	112	9.356	9.356	(1.003)	1000402	256.238	51.248
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	333848	269.614	53.923
61	Ethylbenzene	106	9.451	9.451	(1.013)	555818	276.209	55.242
62	m + p-Xylene	106	9.557	9.557	(1.024)	1372077	563.596	112.72
M 63	Xylenes (total)	106				2032284	851.409	170.28
64	Xylene-o	106	9.889	9.889	(1.060)	660207	287.814	57.563
65	Styrene	104	9.901	9.901	(1.061)	1006371	276.001	55.200
66	Bromoform	173	10.054	10.054	(1.077)	167650	261.805	52.361
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1762386	286.277	57.255
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	319811	248.727	49.745
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	204251	511.996	102.40
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	102472	275.001	55.000
71	Bromobenzene	156	10.457	10.457	(0.925)	405410	262.688	52.538
72	n-Propylbenzene	120	10.551	10.551	(0.933)	514246	286.582	57.316
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	422443	289.375	57.875
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1421798	286.087	57.217

75	4-Chlorotoluene	126	10.717	10.717 (0.948)	434377	281.803	56.361
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1324524	287.824	57.565

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1481592	292.060	58.412
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1877289	283.661	56.732
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1604669	285.288	57.058
80	1,3-Dichlorobenzene	146	11.249	11.250	(0.995)	772354	263.585	52.717
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	771728	248.260	49.652
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1395876	286.010	57.202
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	708261	258.166	51.633
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	57257	258.030	51.606
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	492708	277.528	55.506
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	297093	261.054	52.211
87	Naphthalene	128	13.178	13.178	(1.165)	1052360	257.560	51.512
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	454996	260.174	52.035
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	4042	13.2197	2.644
89	Ethyl Ether	59	2.600	2.600	(0.394)	289056	255.907	51.181
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.741	(0.719)	315146	263.399	52.680
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.291	6.292	(0.953)	441682	10623.7	2124.7(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	113082	389.704	77.941(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	807575	255.301	51.060
143	Methyl Acetate	43	3.392	3.393	(0.514)	263209	201.004	40.201
144	Methylcyclohexane	83	7.143	7.144	(1.082)	734243	271.484	54.297
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1449198	292.379	58.476(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

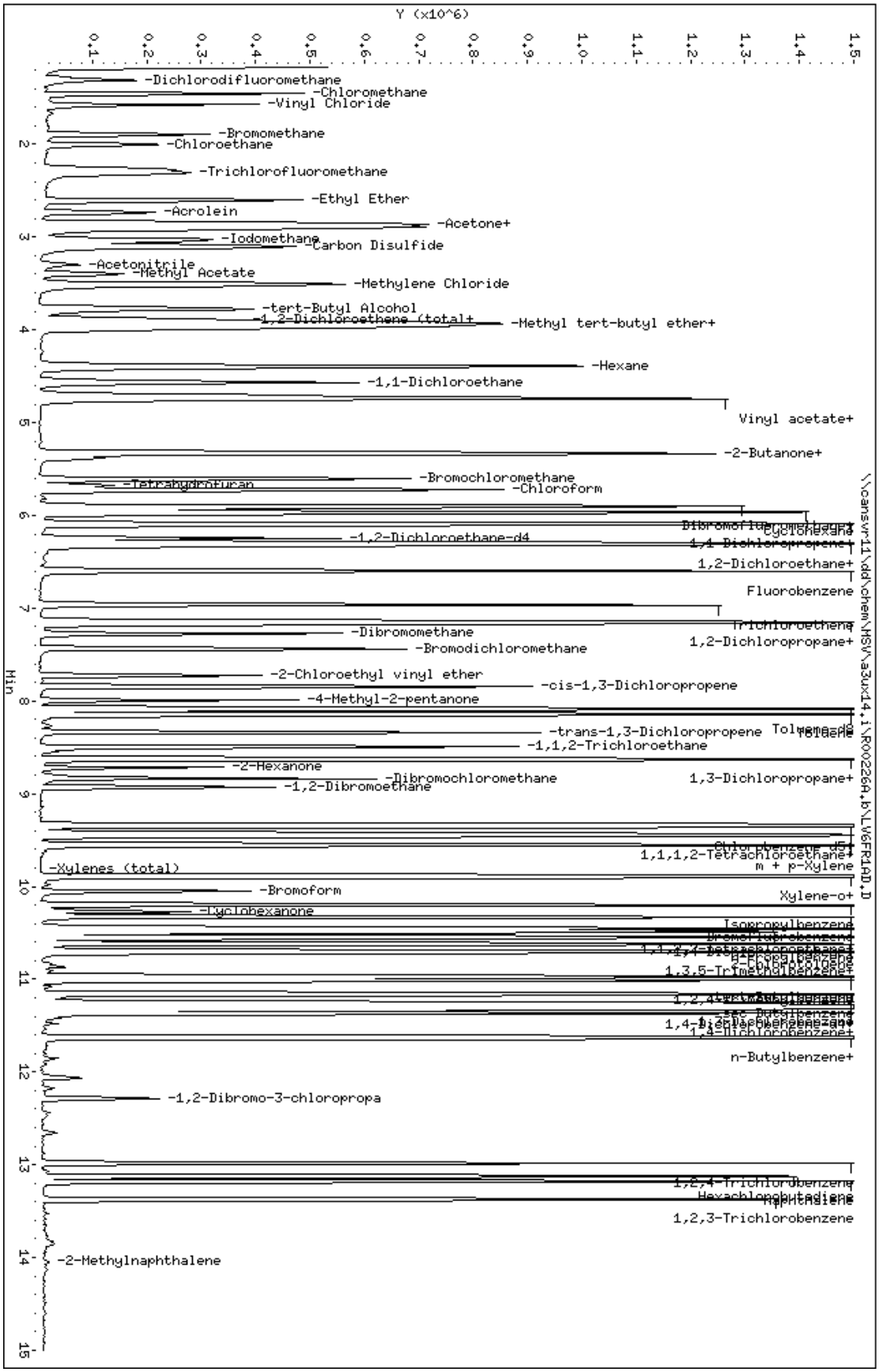
Instrument ID: a3ux14.i
Lab File ID: 148217.D
Lab Smp Id: CHECKDUP
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1347350	2.69
2 Chlorobenzene-d5	965181	482591	1930362	961680	-0.36
3 1,4-Dichlorobenze	531218	265609	1062436	524167	-1.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total+
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Tetrahydrofuran
-Chloroform
-1,2-Dichloroethane-d4
Cyclohexane
1,2-Dichloroethane+
Fluorobenzene
Trichloroethene
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-trans-1,3-Dichloropropene
Toluene-d8
Toluene
-1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
1,3-Dichloropropane+
-1,2-Dibromoethane
Chlorobenzene-d5
1,1,1,2-Tetrachloroethane+
-Xylenes (total)
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
Bromofluorobenzene
1,3,5-Trimethylbenzene+
1,2,4-Trimethylbenzene
1,4-Dichlorobenzene-d4
1,4-Dichlorobenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
-2-Methylnaphthalene
\\cansvr11\dd\chem\MSV\a3ux14,i\R00226A.b\LV6FR1AD,D
Data File: \\cansvr11\dd\chem\MSV\a3ux14,i\R00226A.b\LV6FR1AD,D
Date : 26-FEB-2010 12:57
Client ID:
Sample Info: CHECKDUP
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14,i
Operator: 2807
Column diameter: 0.18

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV4QN1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0B260000-113

Prep Date.....: 02/25/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 02/25/10 **Prep Batch #...:** 0057113
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	**3.8 J**	**20**	**ug/kg**	**SW846 8260B**
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	**1.6 J**	**20**	**ug/kg**	**SW846 8260B**
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	**0.39 J**	**5.0**	**ug/kg**	**SW846 8260B**
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B
Acetone	**15 J**	**20**	**ug/kg**	**SW846 8260B**
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(61 - 130)
Toluene-d8	99	(85 - 115)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV4QN1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4-Bromofluorobenzene	101	(85 - 120)		
Dibromofluoromethane	96	(59 - 138)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated: The analyte was positively identified; the quanitation is estimated.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148188.D
Report Date: 25-Feb-2010 14:28

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148188.D
Lab Smp Id: VBLK
Inj Date : 25-FEB-2010 14:09
Operator : 2807 Inst ID: a3ux14.i
Smp Info : VBLK,5G/5ML
Misc Info : R00225A,8260SUX14,,2807,3,,BLANK,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Meth Date : 25-Feb-2010 12:55 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1335921	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.332	(1.000)	967326	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.308	(1.000)	514501	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	354277	240.711	48.142
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	364921	241.833	48.366
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1294636	246.878	49.376
$ 7 Bromofluorobenzene	95	10.327	10.326	(0.913)	481655	252.476	50.495
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.943	2.931	(0.446)	55258	73.4270	14.685
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22 Acetonitrile	41	3.310	3.298 (0.502)	5754	32.4691	6.494
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148188.D
Report Date: 25-Feb-2010 14:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	5.392	5.380	(0.817)	12929	18.8862	3.777
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	2383	2.03997	0.4080
	50 Toluene	91	8.149	8.149	(0.873)	11257	1.97027	0.3940
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	8.717	8.717	(0.934)	6436	7.99713	1.599
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148188.D
Report Date: 25-Feb-2010 14:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	2076	0.72180	0.1444
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	2898	0.94978	0.1900
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	2133	1.22403	0.2448
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	13.178	13.178	(1.165)	5741	1.43148	0.2863
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	1562	0.90996	0.1820
146	2-Methylnaphthalene	142	14.042	14.054	(1.242)	1582	12.2857	2.457
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.972	(0.905)	4023	1.28268	0.2565
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	6898	1.41783	0.2836(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\148188.D
Report Date: 25-Feb-2010 14:28

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 148188.D
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\8260SUX14.m
Misc Info: R00225A,8260SUX14,,2807,3,,BLANK,,0

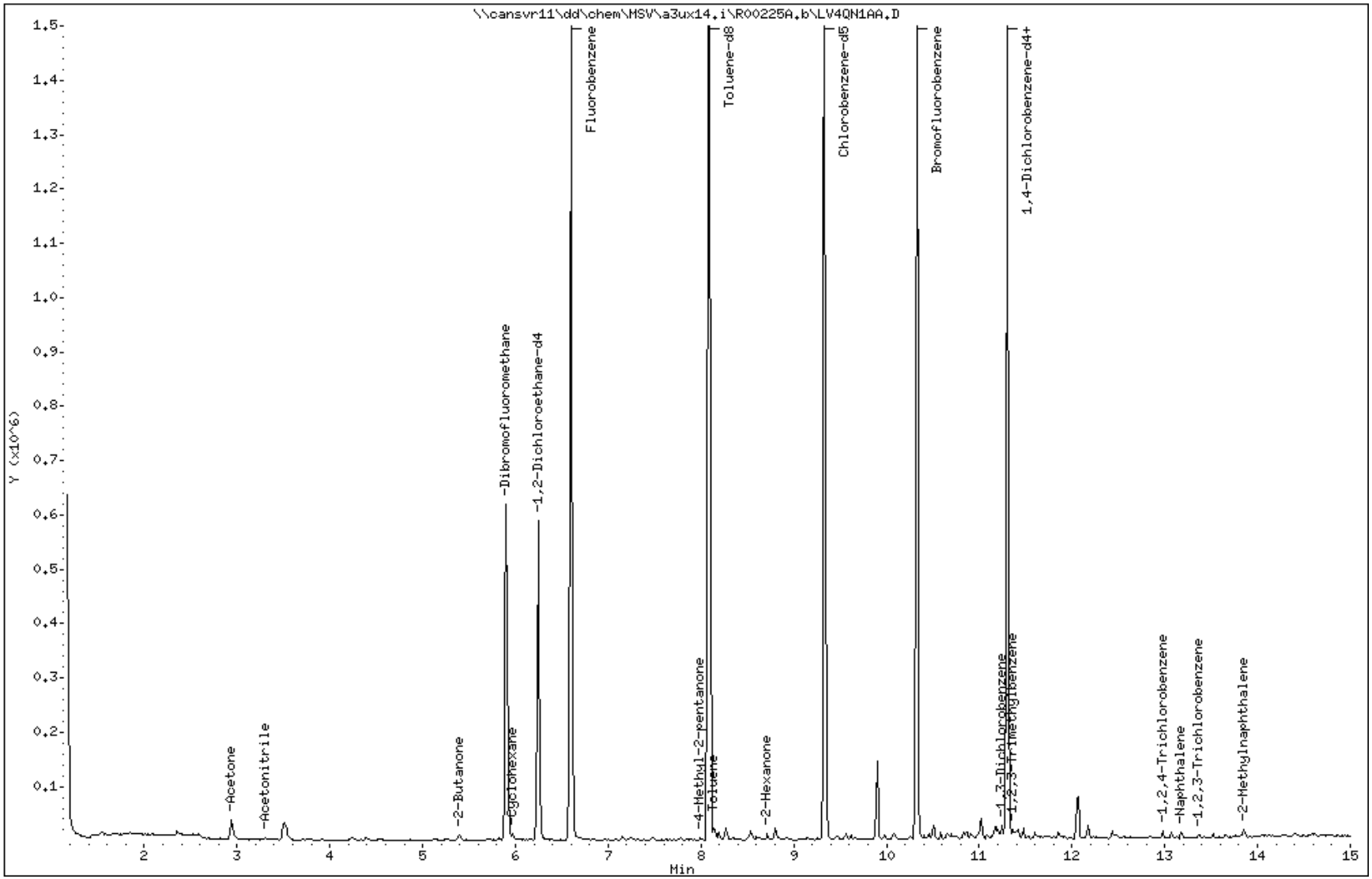
Calibration Date: 25-FEB-2010
Calibration Time: 11:54
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1478249	739125	2956498	1335921	-9.63
2 Chlorobenzene-d5	1013027	506514	2026054	967326	-4.51
3 1,4-Dichlorobenze	566289	283145	1132578	514501	-9.15

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D
Date : 25-FEB-2010 14:09
Client ID:
Instrument: a3ux14.i
Sample Info: VBLK,5G/5ML
Purge Volume: 5.0
Operator: 2807
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

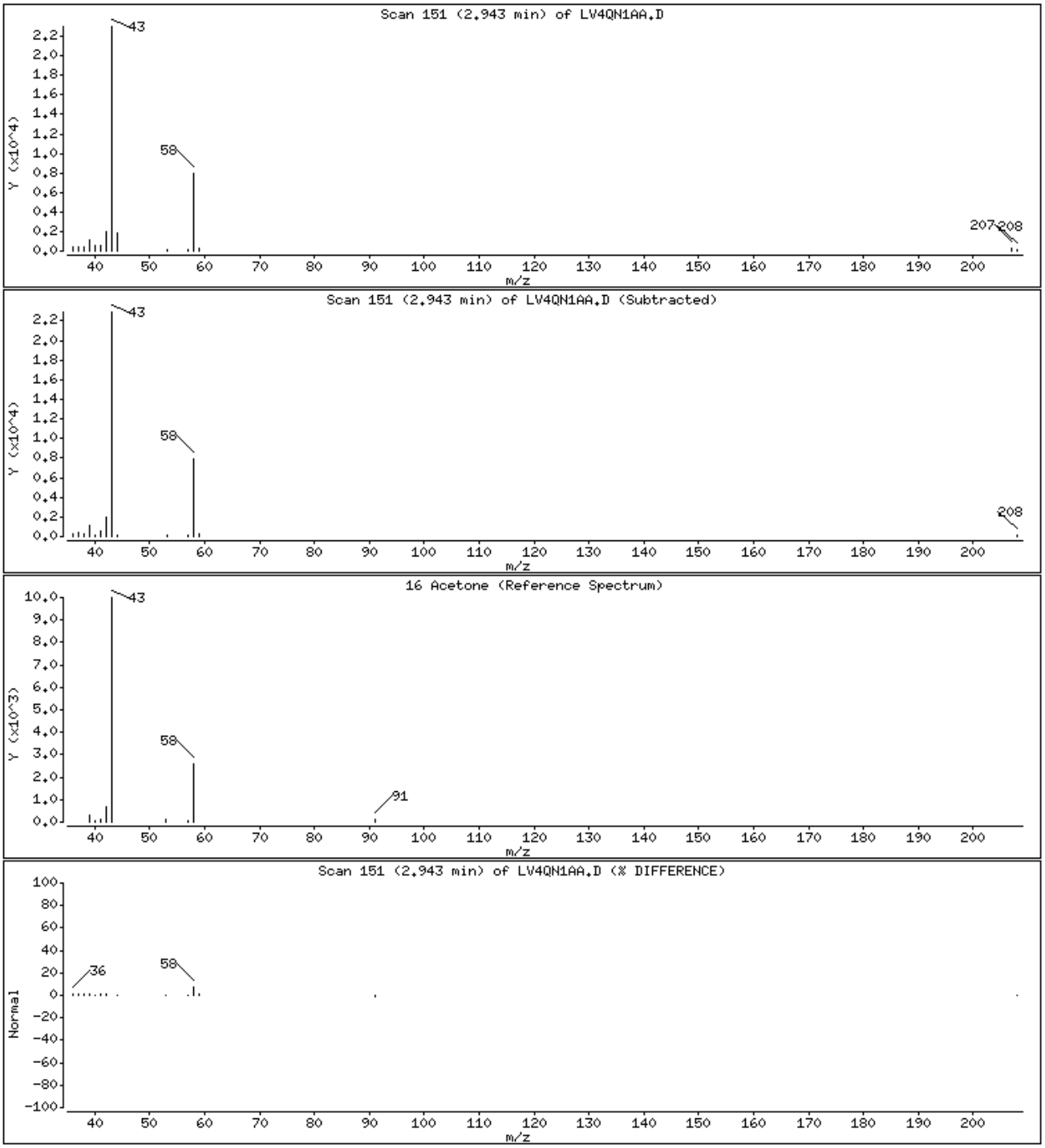
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 14.685 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

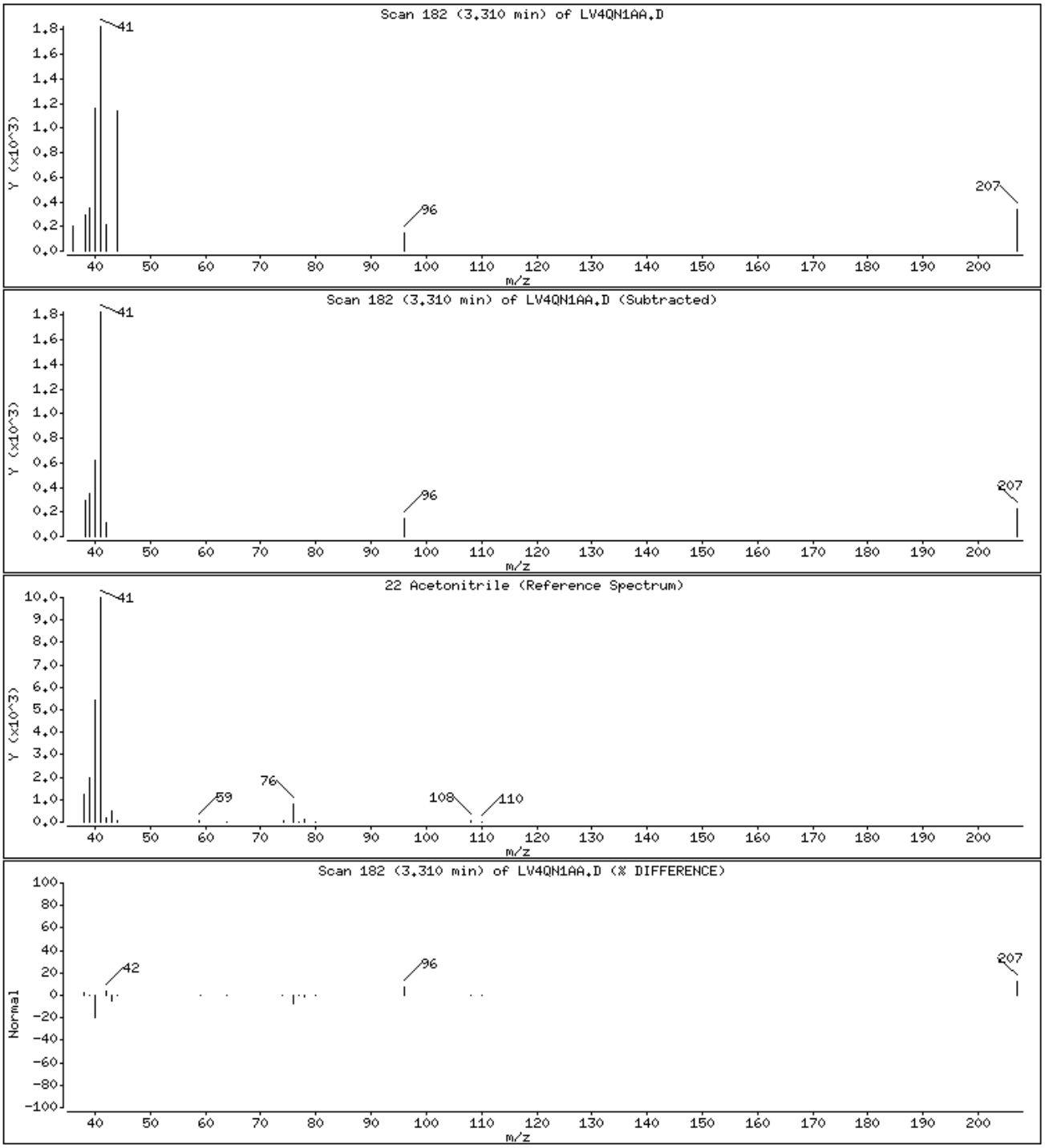
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

22 Acetonitrile Concentration: 6.494 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

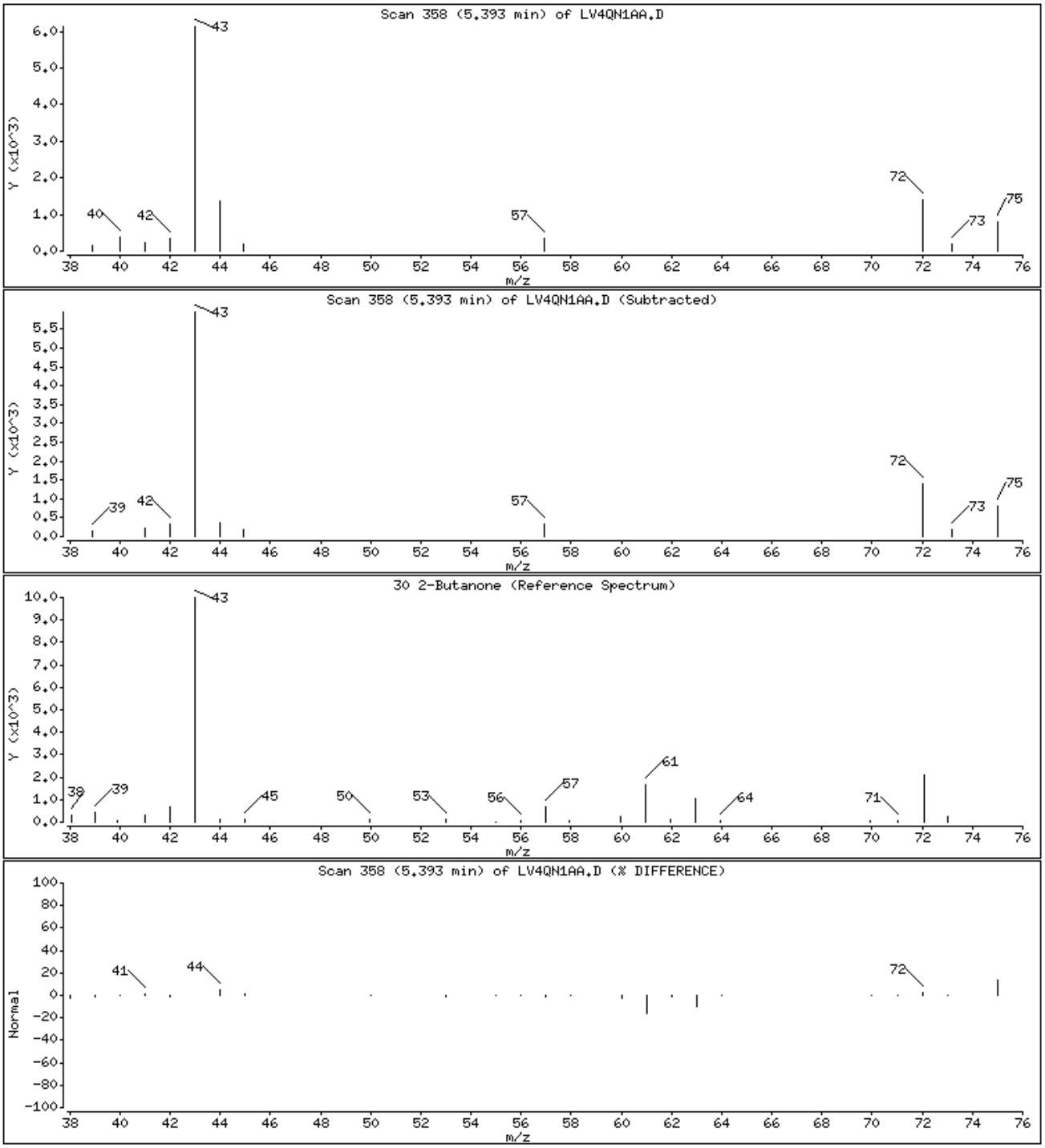
Operator: 2807

Column phase: DB624

Column diameter: 0.18

30 2-Butanone

Concentration: 3.777 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

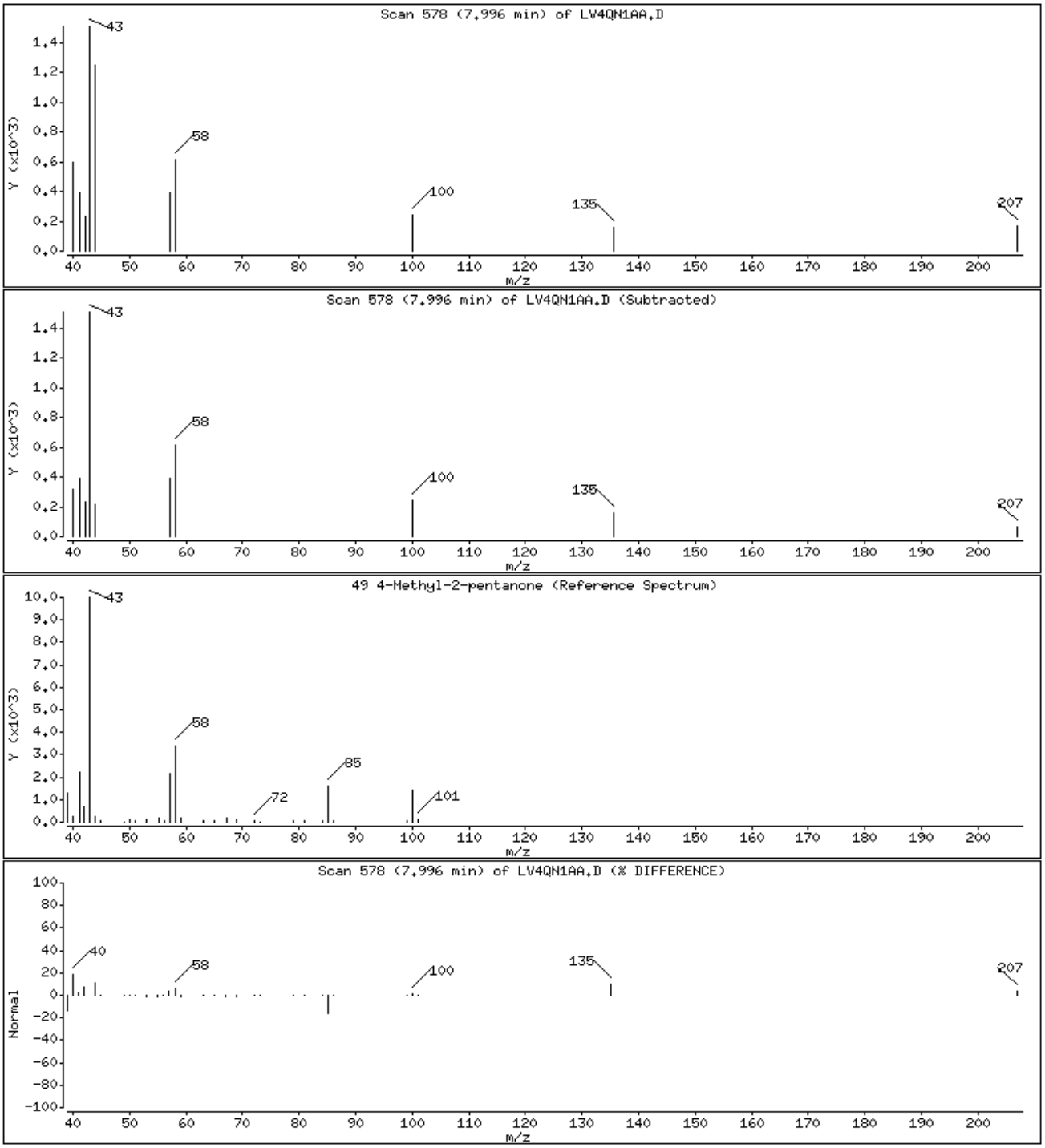
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

49 4-Methyl-2-pentanone Concentration: 0.4080 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

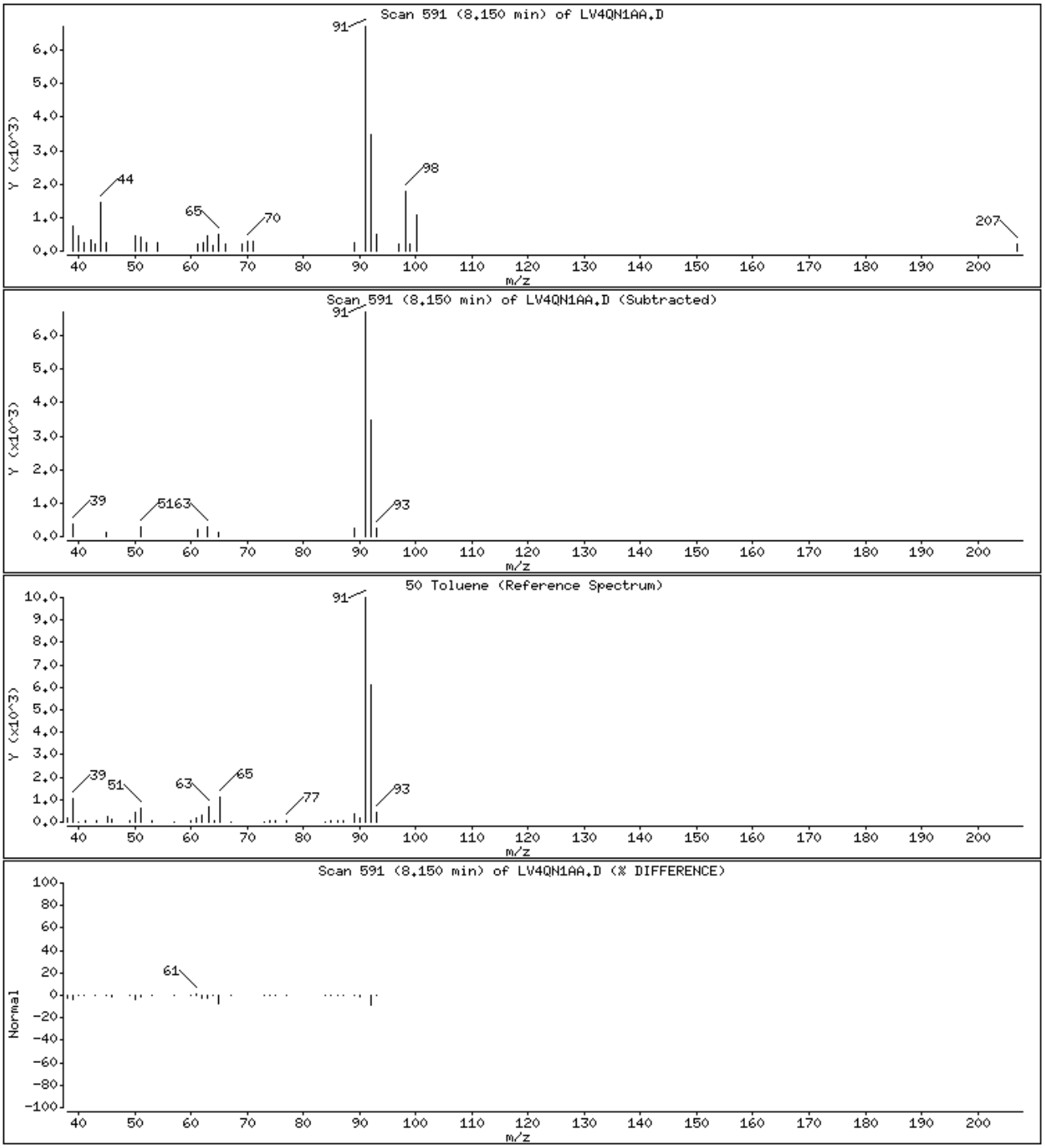
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

50 Toluene Concentration: 0.3940 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

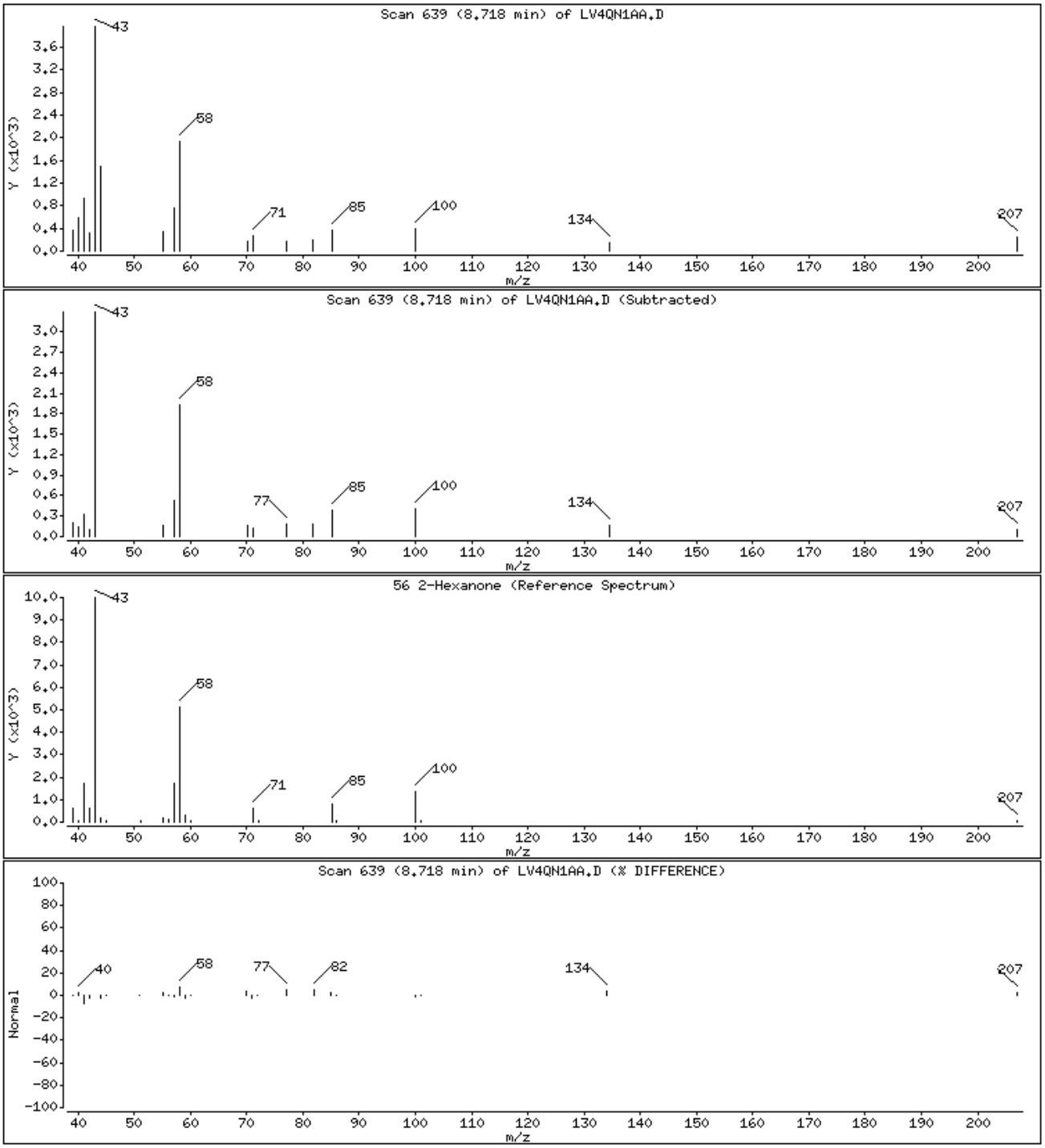
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

56 2-Hexanone Concentration: 1.599 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

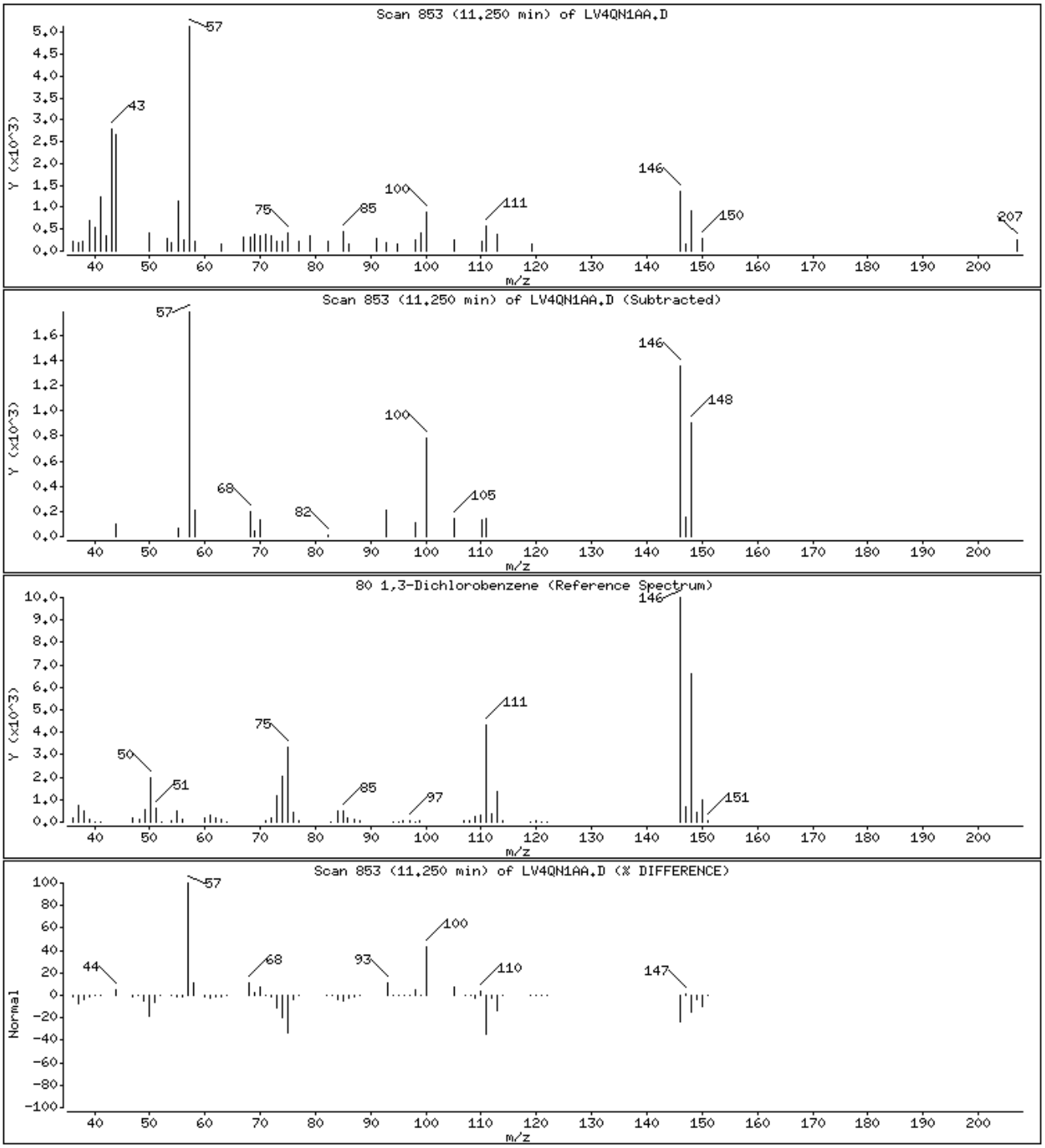
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

80 1,3-Dichlorobenzene Concentration: 0.1444 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

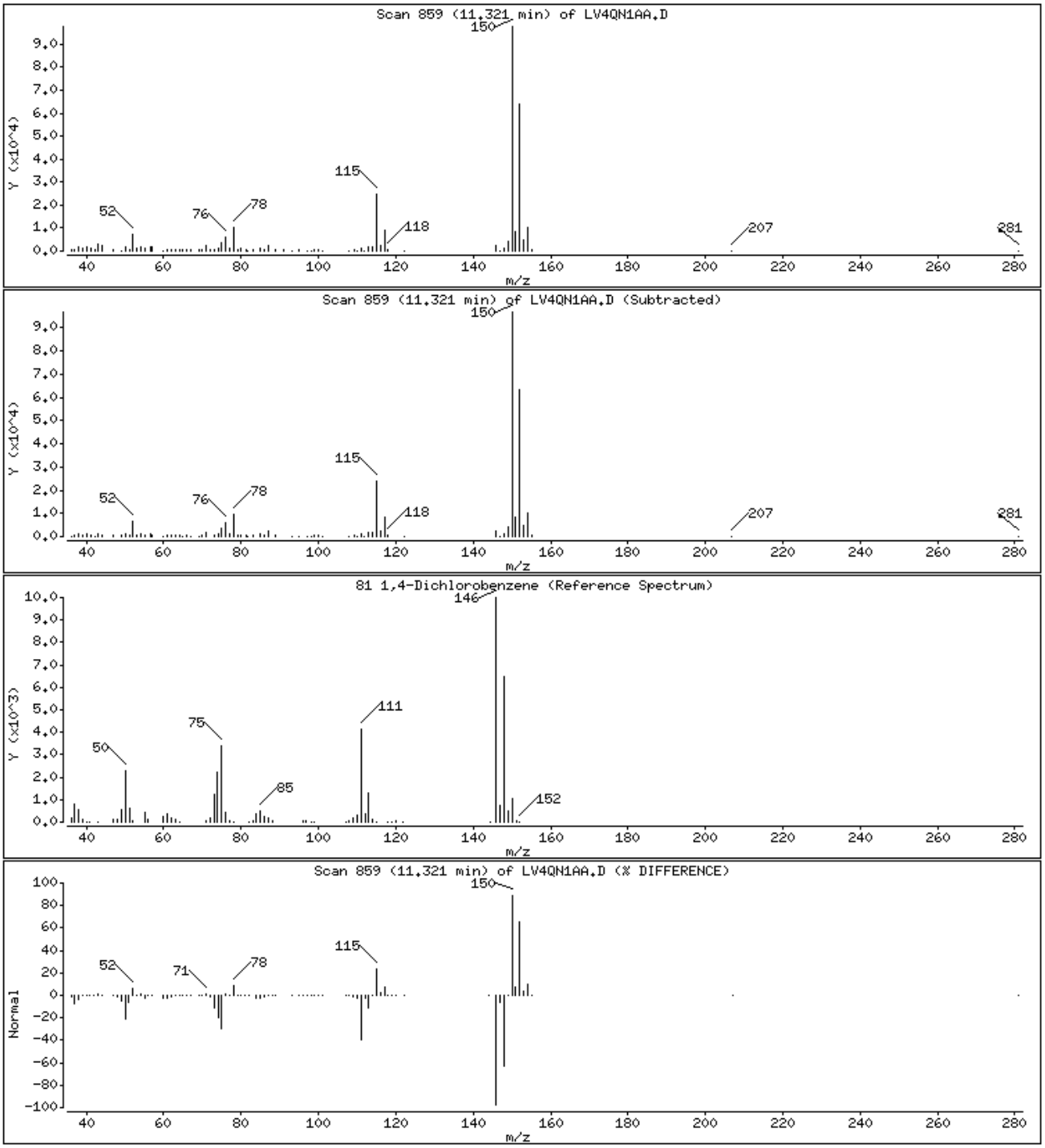
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

81 1,4-Dichlorobenzene Concentration: 0.1900 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

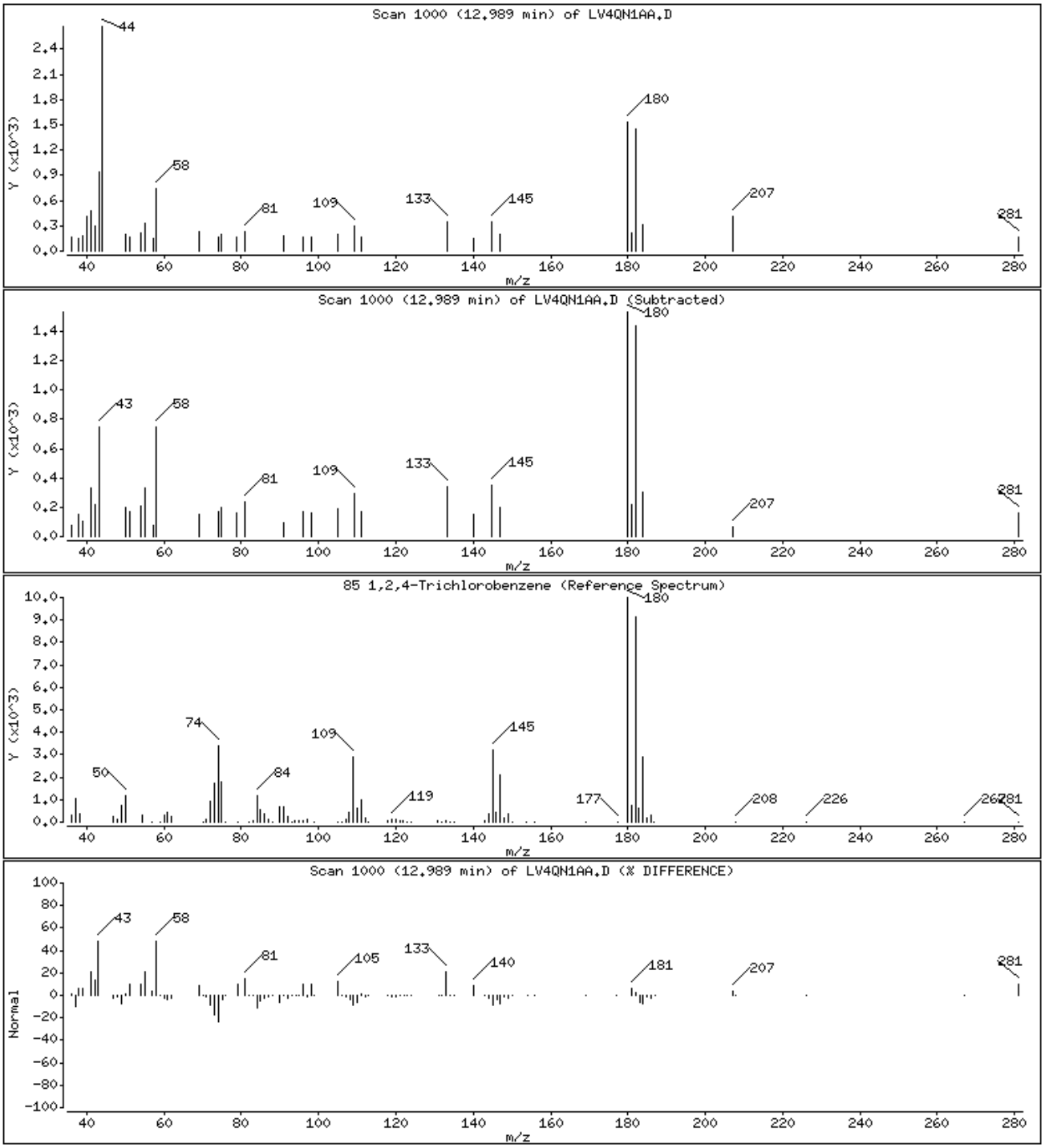
Operator: 2807

Column phase: DB624

Column diameter: 0.18

85 1,2,4-Trichlorobenzene

Concentration: 0.2448 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

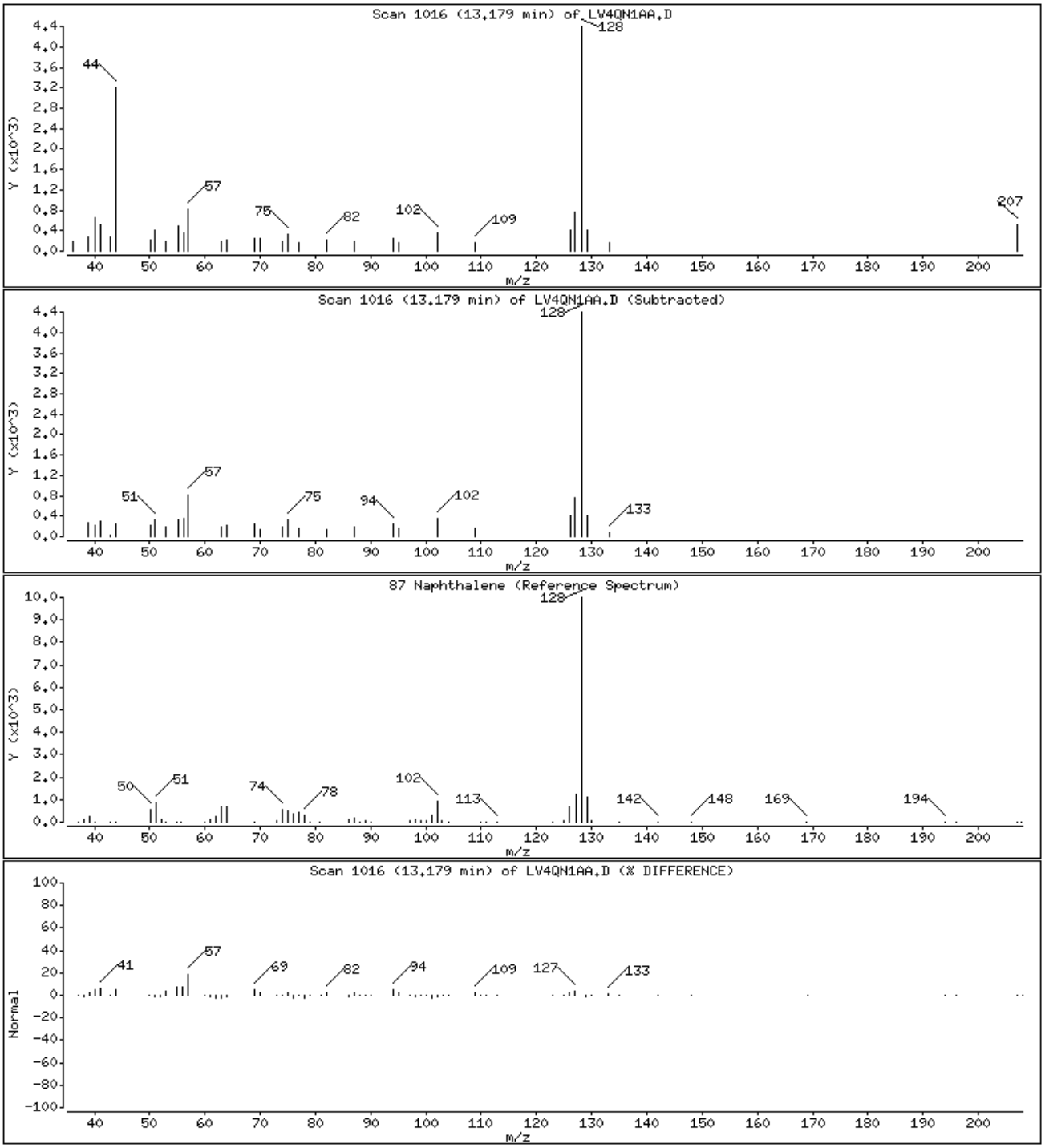
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

87 Naphthalene Concentration: 0.2863 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

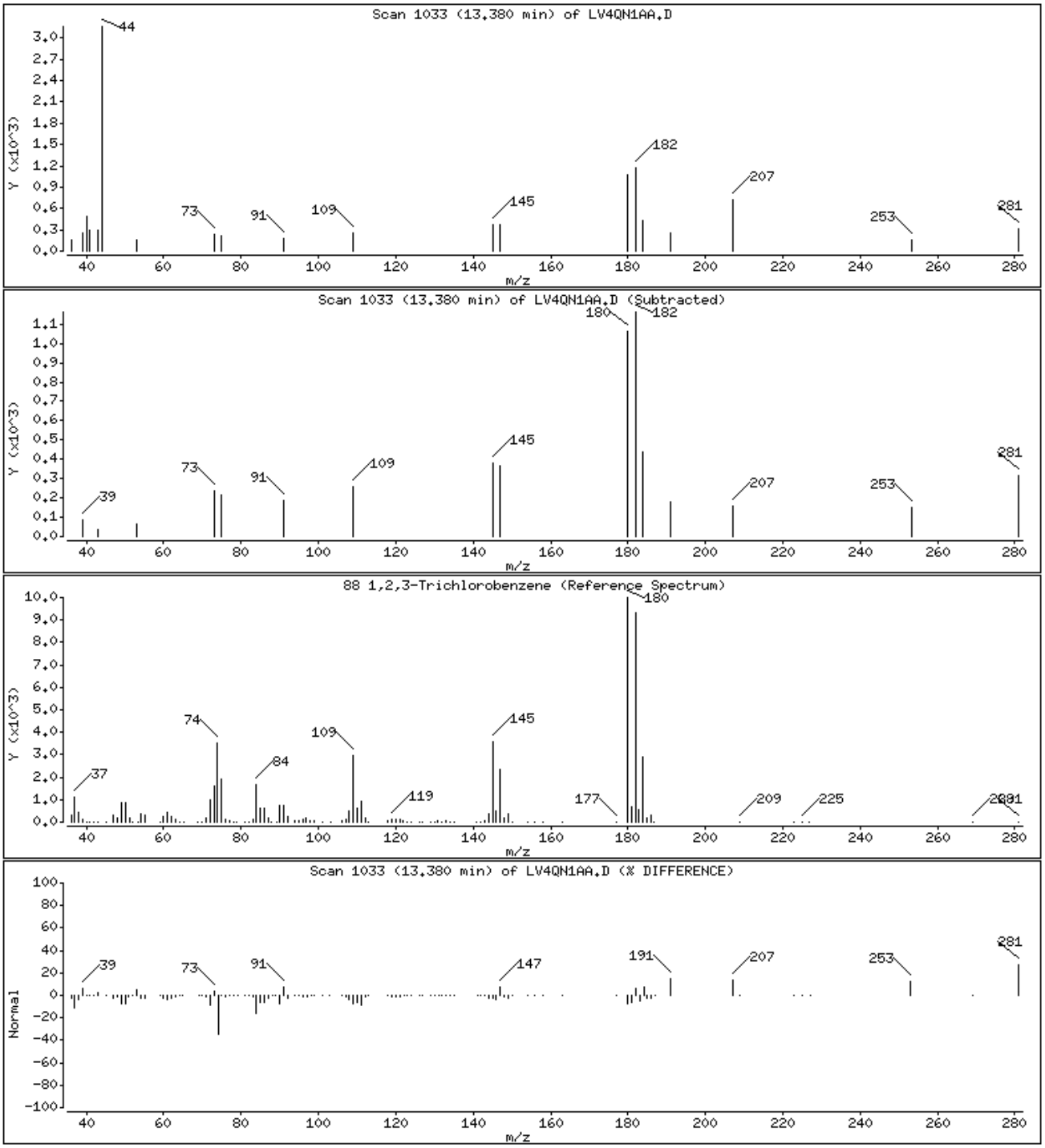
Operator: 2807

Column phase: DB624

Column diameter: 0.18

88 1,2,3-Trichlorobenzene

Concentration: 0.1820 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

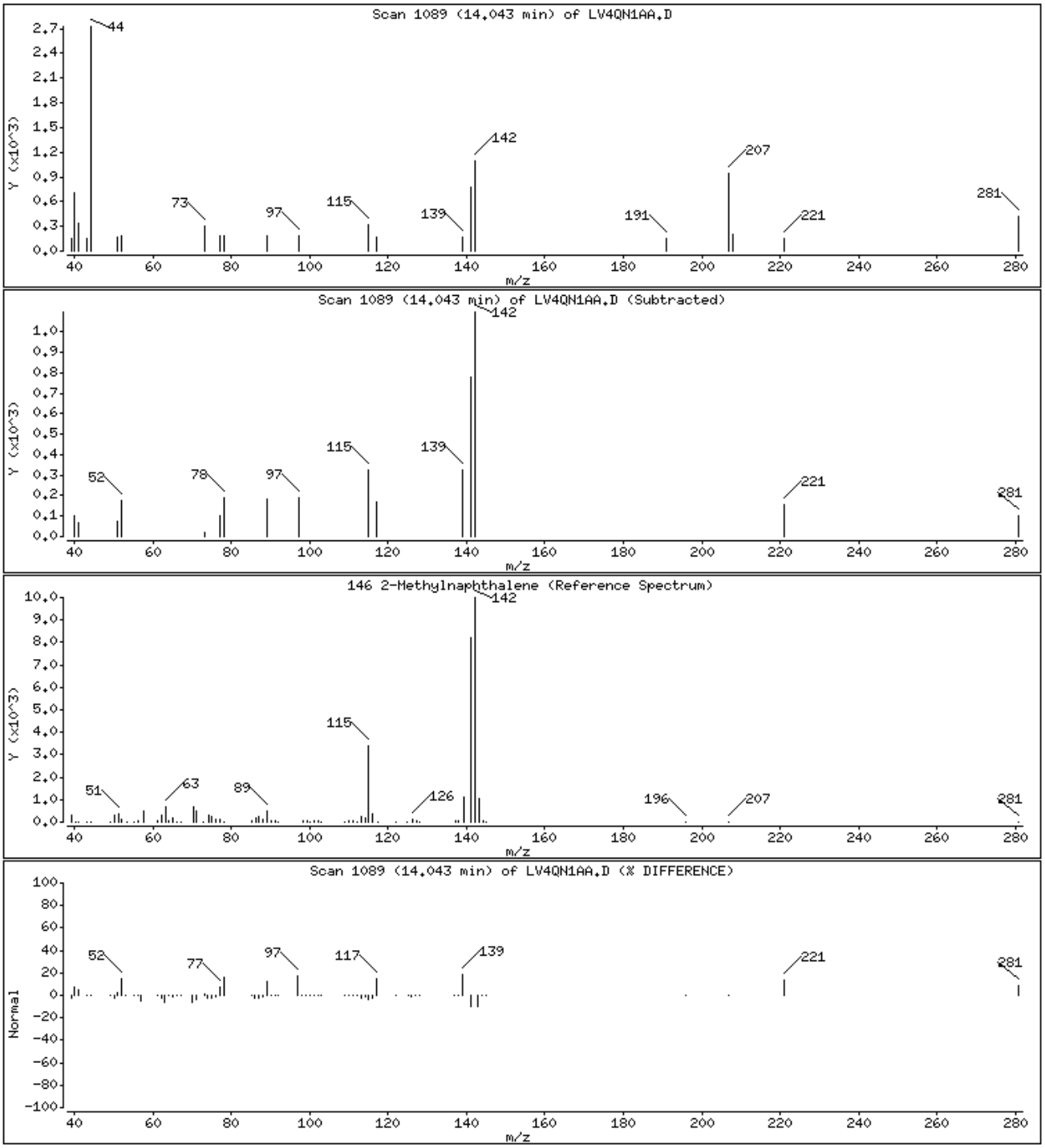
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

146 2-Methylnaphthalene Concentration: 2.457 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

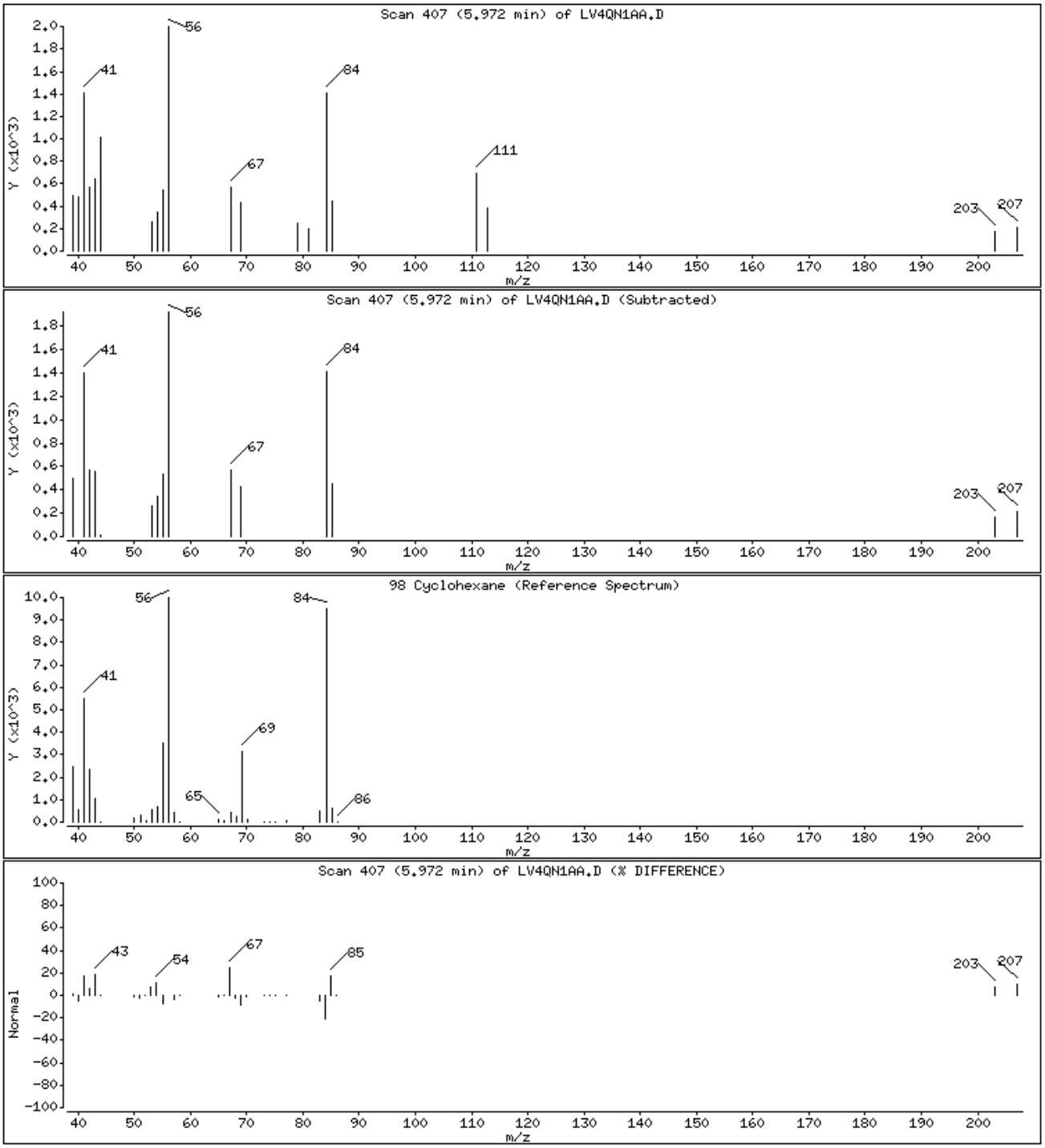
Operator: 2807

Column phase: DB624

Column diameter: 0.18

98 Cyclohexane

Concentration: 0.2565 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00225A.b\LV4QN1AA.D

Date : 25-FEB-2010 14:09

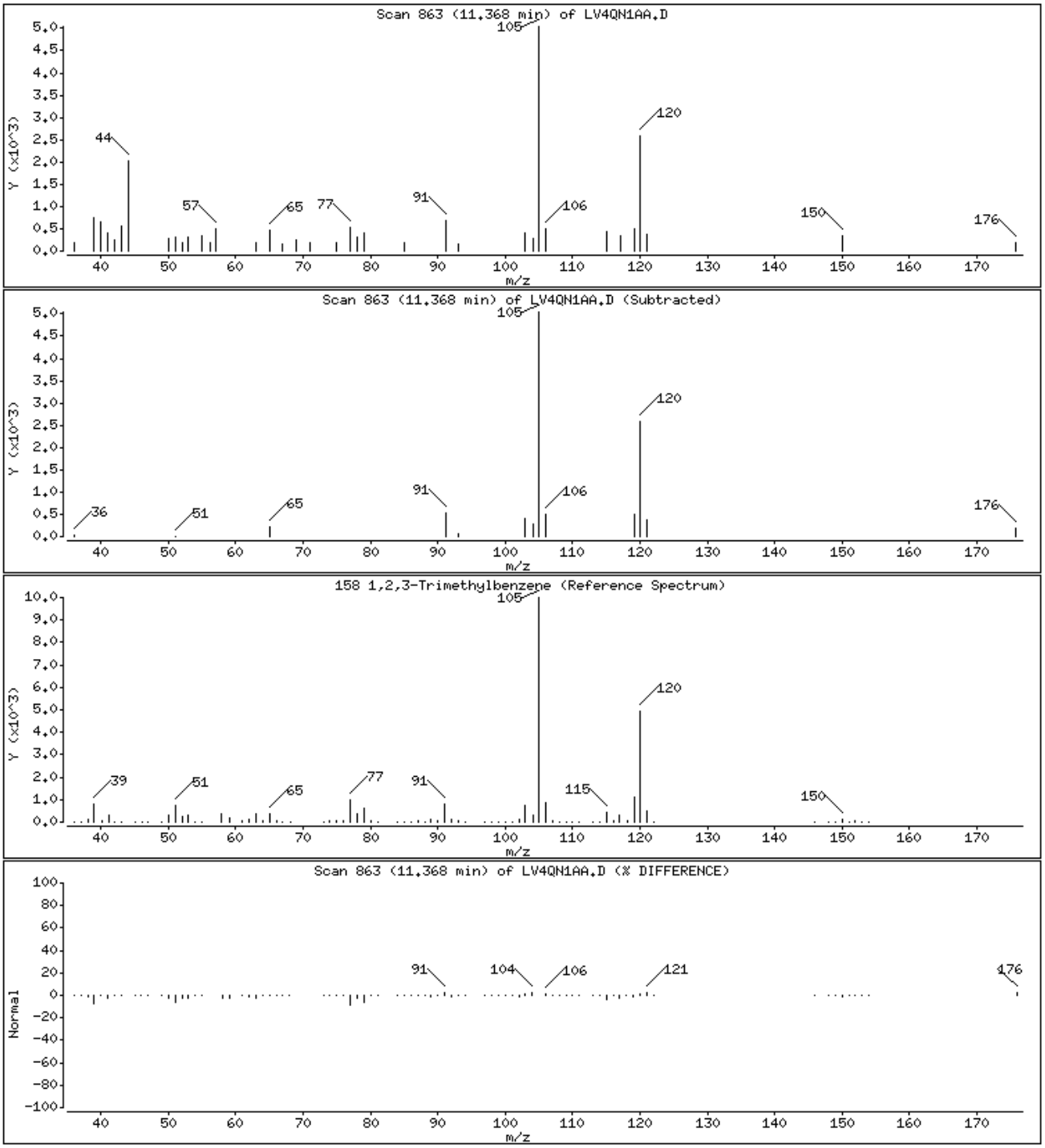
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

158 1,2,3-Trimethylbenzene Concentration: 0.2836 UG/KG



METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV6FR1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0C010000-098

Prep Date.....: 02/26/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 02/26/10 **Prep Batch #...:** 0060098
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**11 J**	**20**	**ug/kg**	**SW846 8260B**
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	**3.4 J**	**20**	**ug/kg**	**SW846 8260B**
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	**1.7 J**	**20**	**ug/kg**	**SW846 8260B**
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(61 - 130)
Toluene-d8	94	(85 - 115)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0B180429 **Work Order #...:** LV6FR1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4-Bromofluorobenzene	99	(85 - 120)		
Dibromofluoromethane	94	(59 - 138)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated: The analyte was positively identified; the quanitation is estimated.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Lab Smp Id: VBLK
Inj Date : 26-FEB-2010 13:41
Operator : 2807 Inst ID: a3ux14.i
Smp Info : VBLK,5G/5ML
Misc Info : R00226A,8260SUX14,,2807,3,,BLANK,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1293874	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	933757	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	498117	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	335871	235.621	47.124
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	346032	236.767	47.353
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1193862	235.846	47.169
$ 7 Bromofluorobenzene	95	10.326	10.327	(0.913)	456257	247.029	49.406
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.931	2.931	(0.444)	45662	52.7984	10.560
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22 Acetonitrile	41	3.298	3.286 (0.500)	5121	29.8362	5.967
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	5.392	5.380	(0.817)	11309	17.0566	3.411
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	1992	1.76656	0.3533
	50 Toluene	91	8.137	8.138	(0.872)	6802	1.23333	0.2467
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	8.717	8.717	(0.934)	6475	8.33483	1.667
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	2991	1.01250	0.2025
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	2555	1.51442	0.3029
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	13.178	13.178	(1.165)	5784	1.48964	0.2979
88	1,2,3-Trichlorobenzene	180	13.368	13.380	(1.182)	1978	1.19020	0.2380
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	1152	12.1322	2.426
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.244	10.267	(0.906)	1461	49.4561	9.891
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	2641	0.86941	0.1739
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	6592	1.39950	0.2799(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 148219.D
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807,3,,BLANK,,0

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

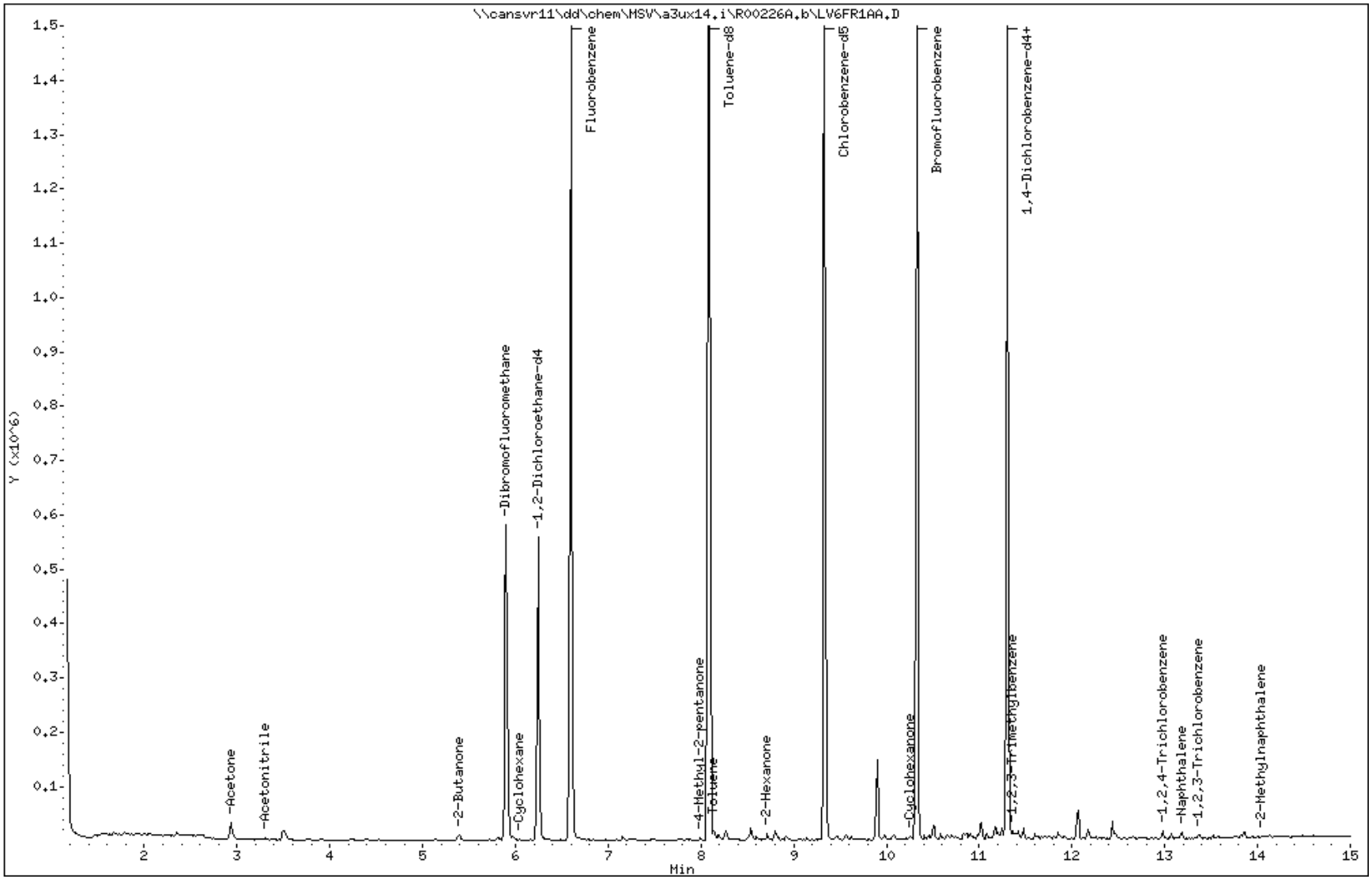
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1293874	-1.38
2 Chlorobenzene-d5	965181	482591	1930362	933757	-3.26
3 1,4-Dichlorobenze	531218	265609	1062436	498117	-6.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D
Date : 26-FEB-2010 13:41
Client ID:
Sample Info: VBLK,5G/5ML
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

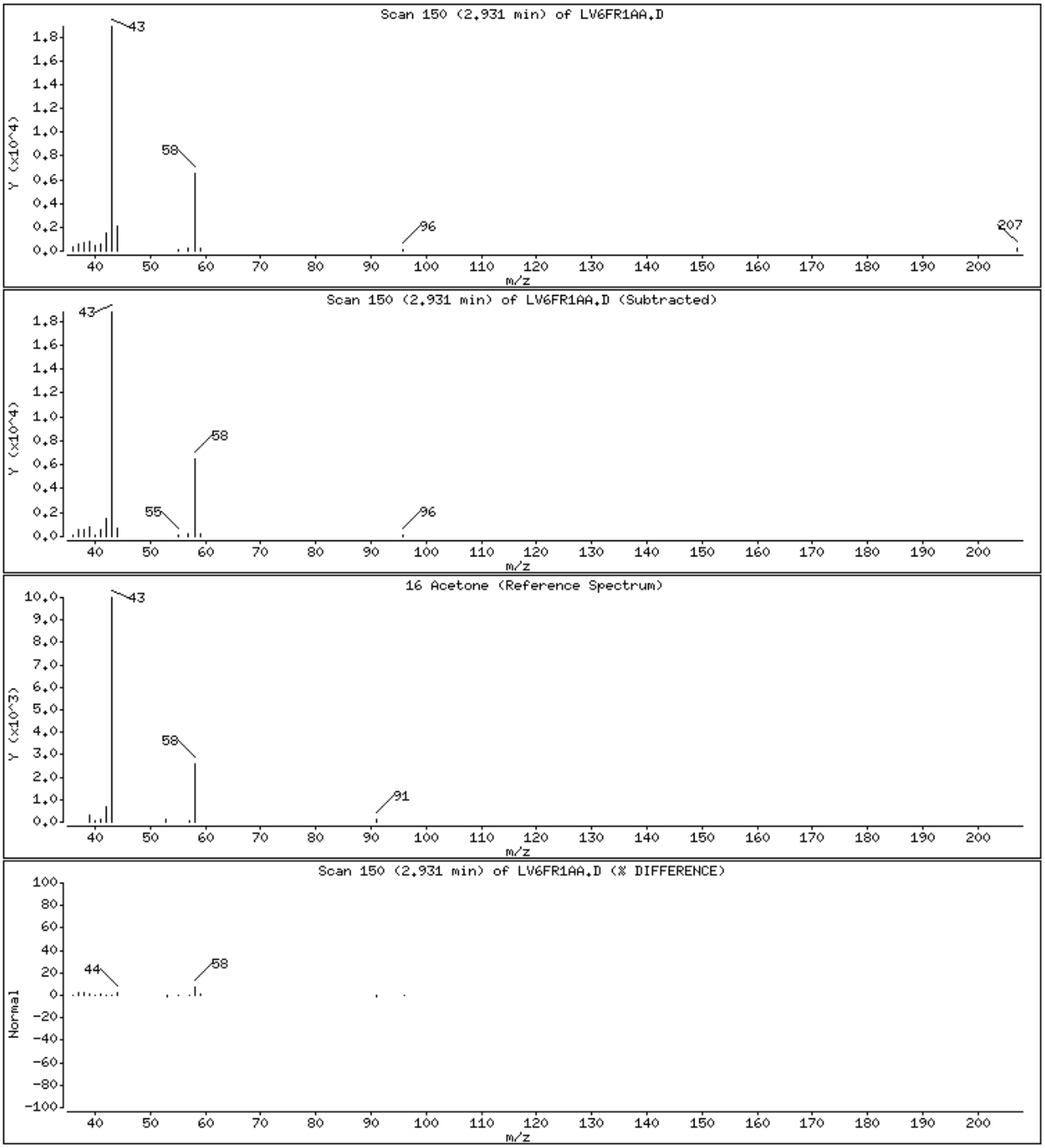
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 10.560 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

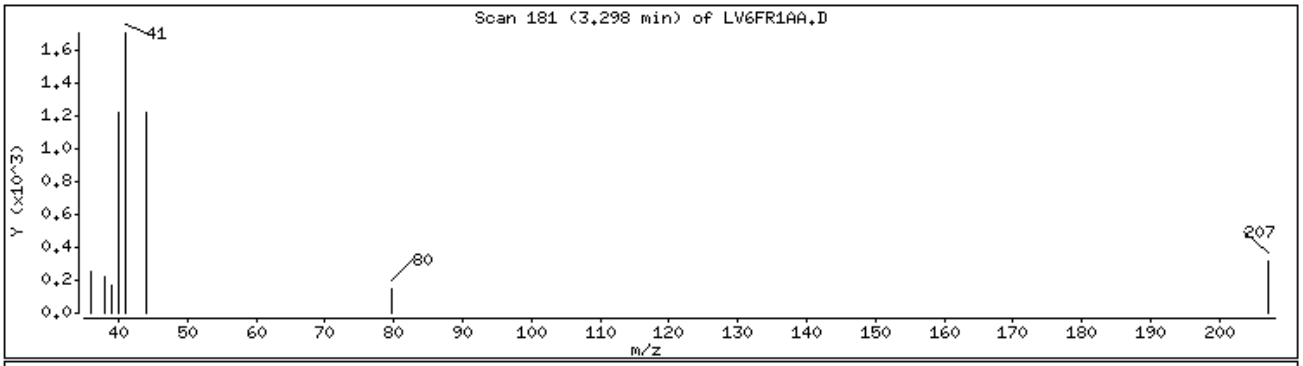
Client ID: Instrument: a3ux14.i

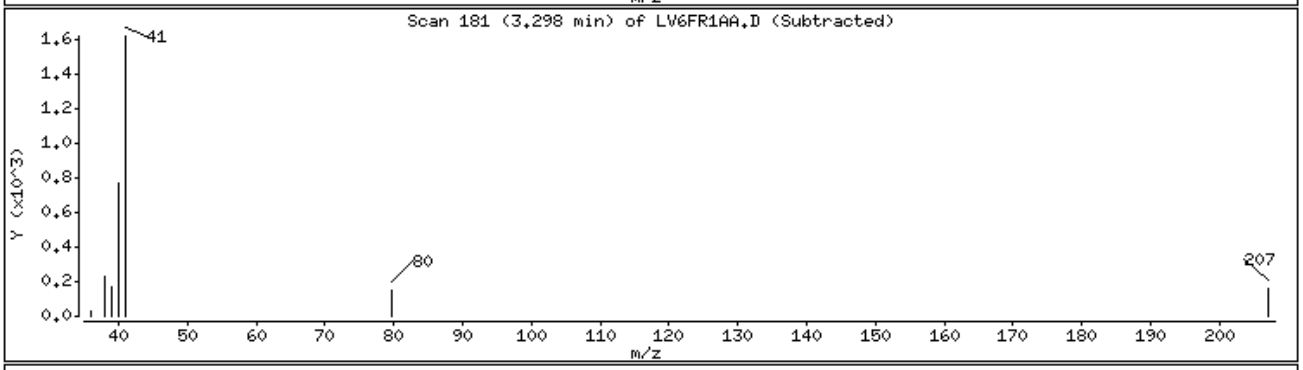
Sample Info: VBLK,5G/5ML

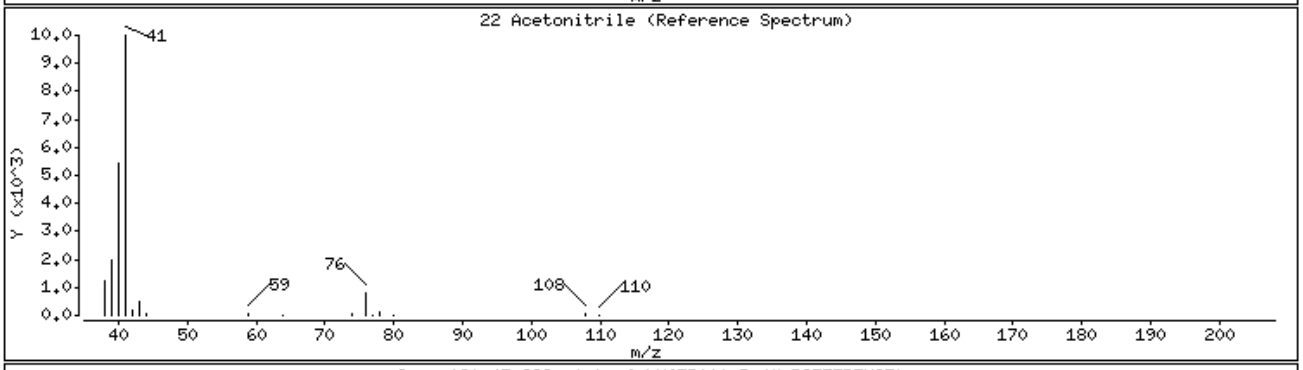
Purge Volume: 5.0 Operator: 2807

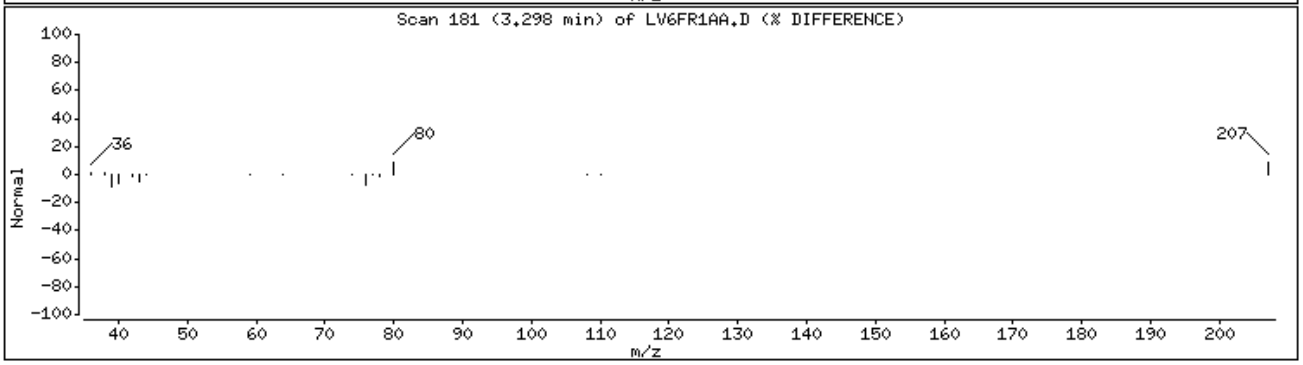
Column phase: DB624 Column diameter: 0.18

22 Acetonitrile Concentration: 5.967 UG/KG









Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

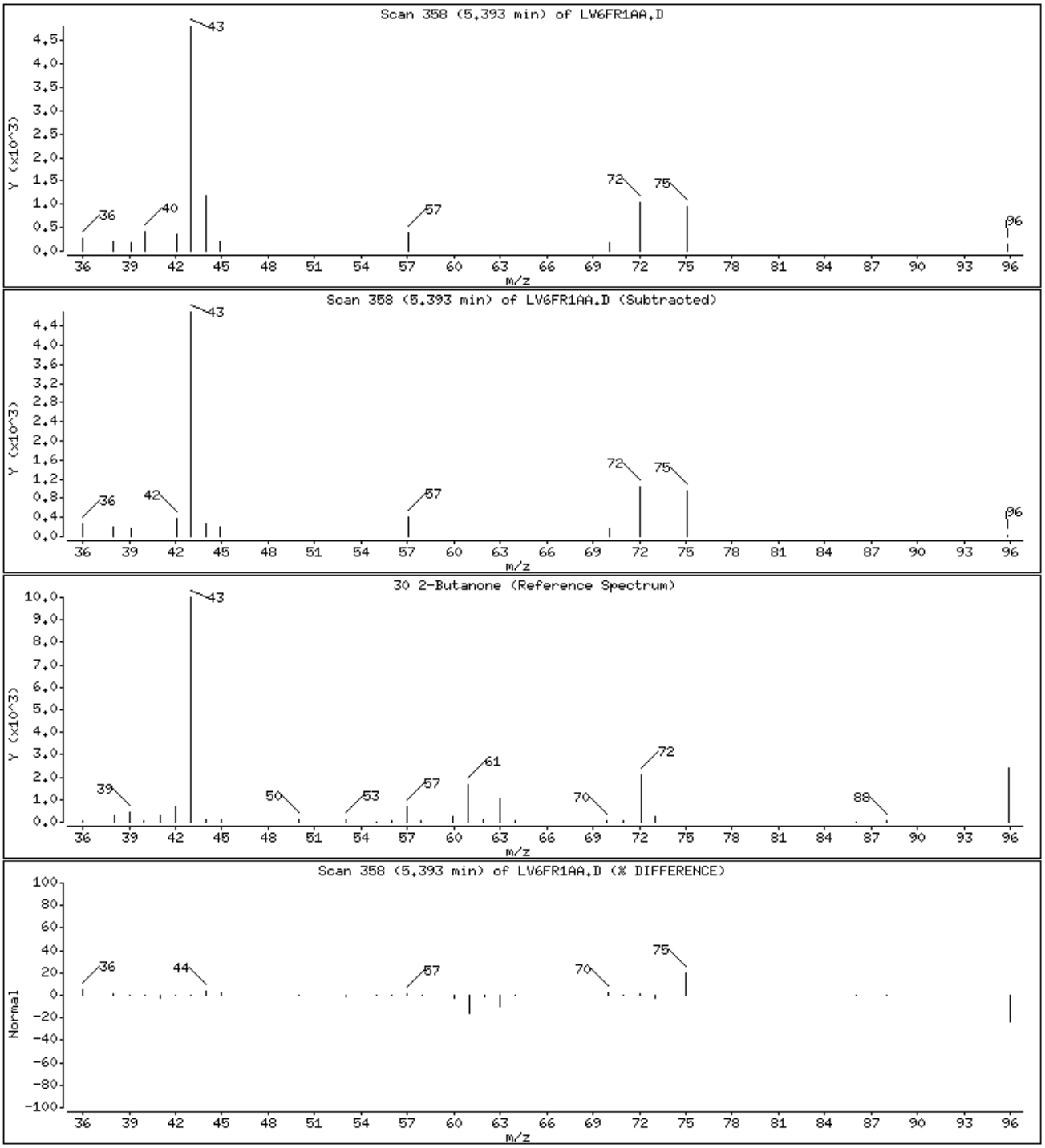
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

30 2-Butanone Concentration: 3.411 UG/KG



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Date : 26-FEB-2010 13:41

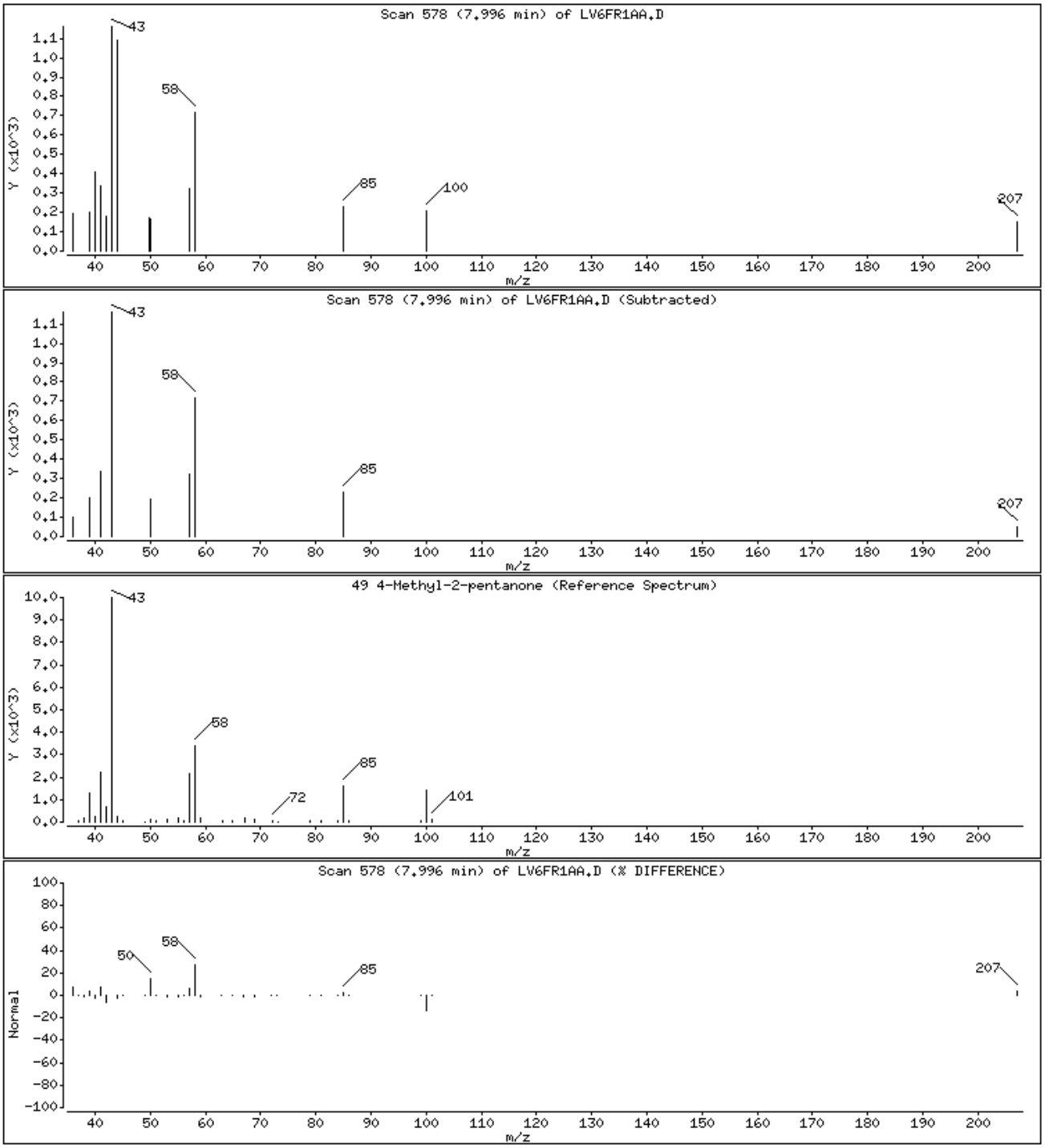
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

49 4-Methyl-2-pentanone Concentration: 0.3533 UG/KG



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Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

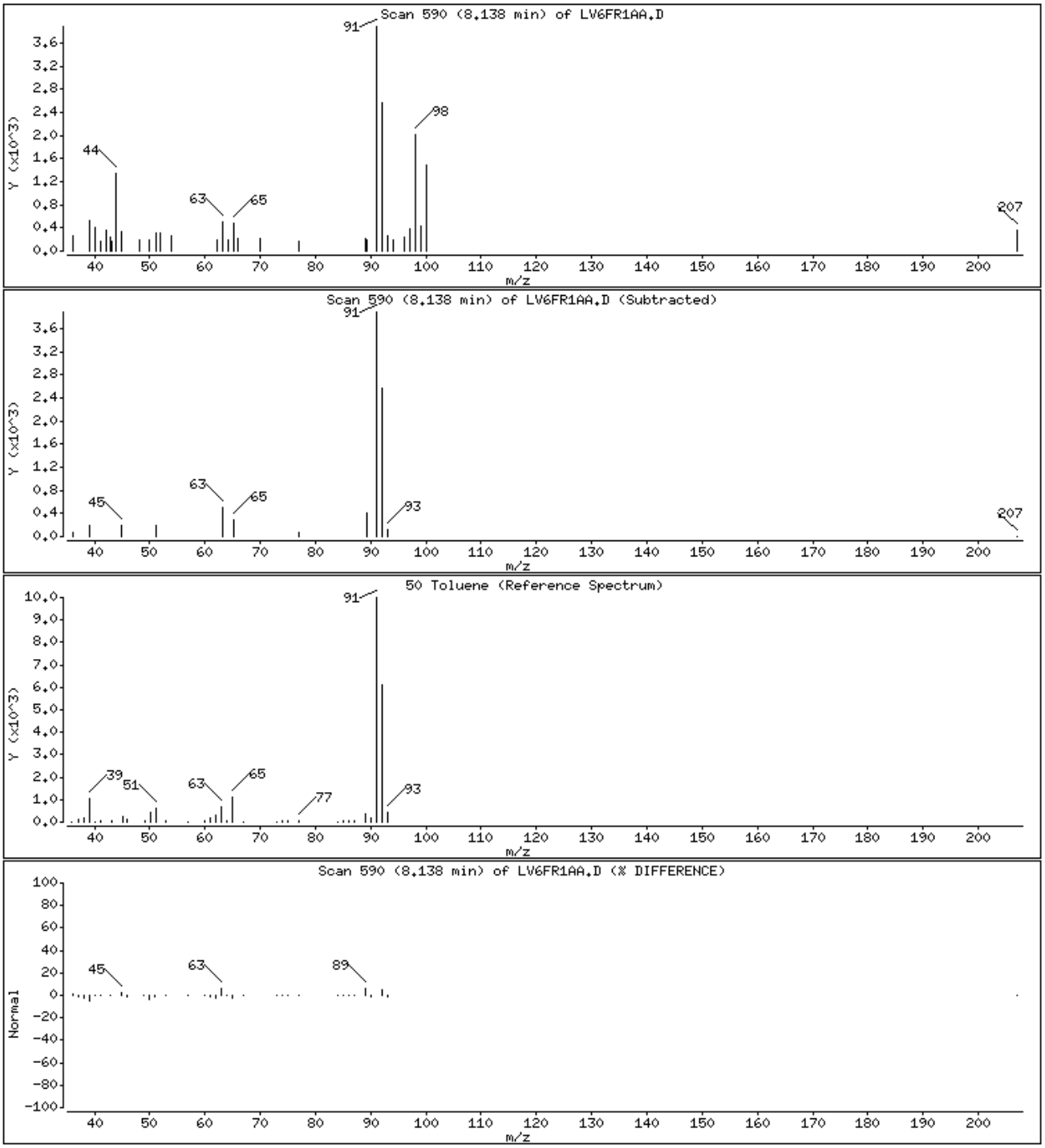
Operator: 2807

Column phase: DB624

Column diameter: 0.18

50 Toluene

Concentration: 0.2467 UG/KG



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Date : 26-FEB-2010 13:41

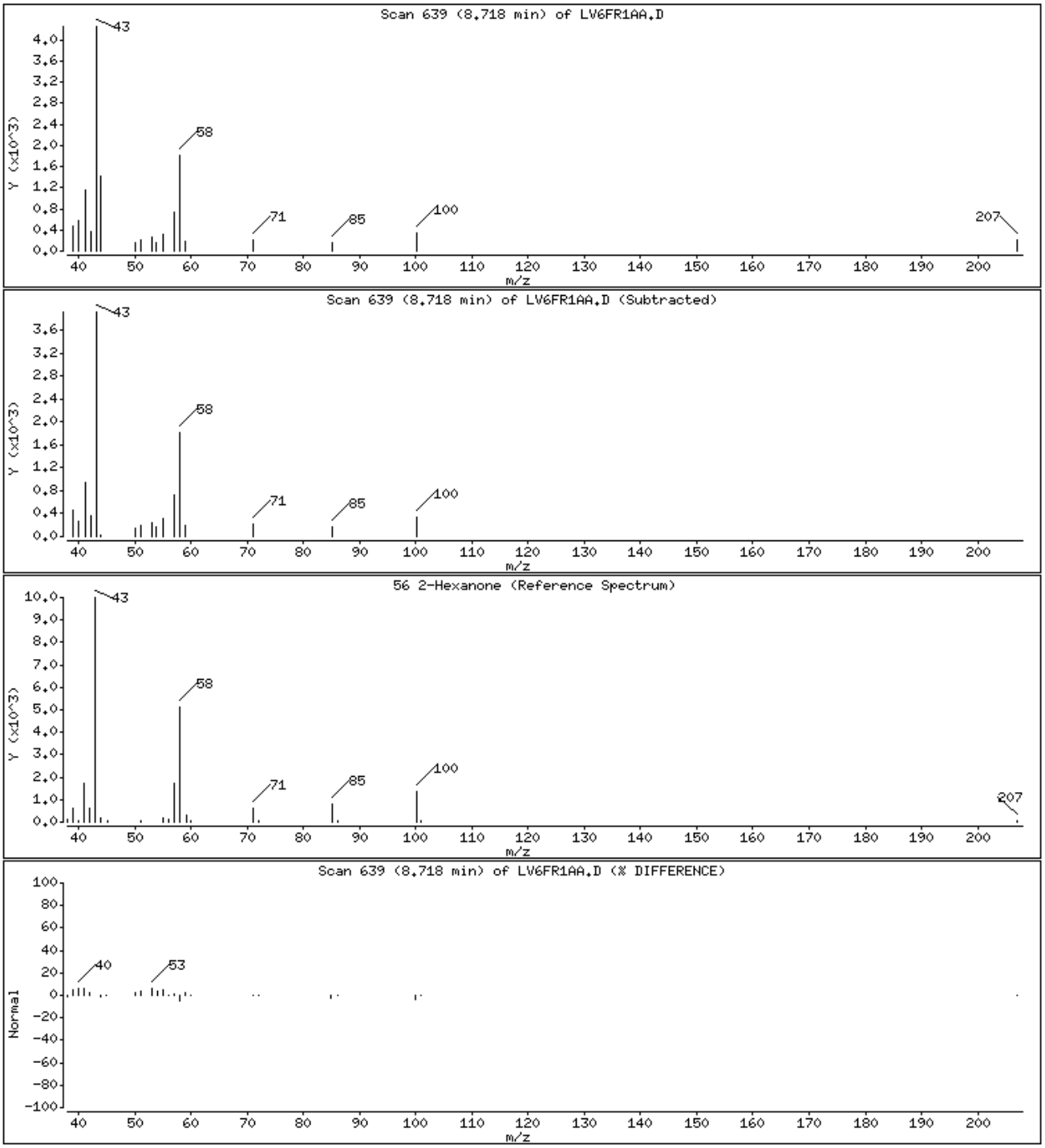
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

56 2-Hexanone Concentration: 1.667 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

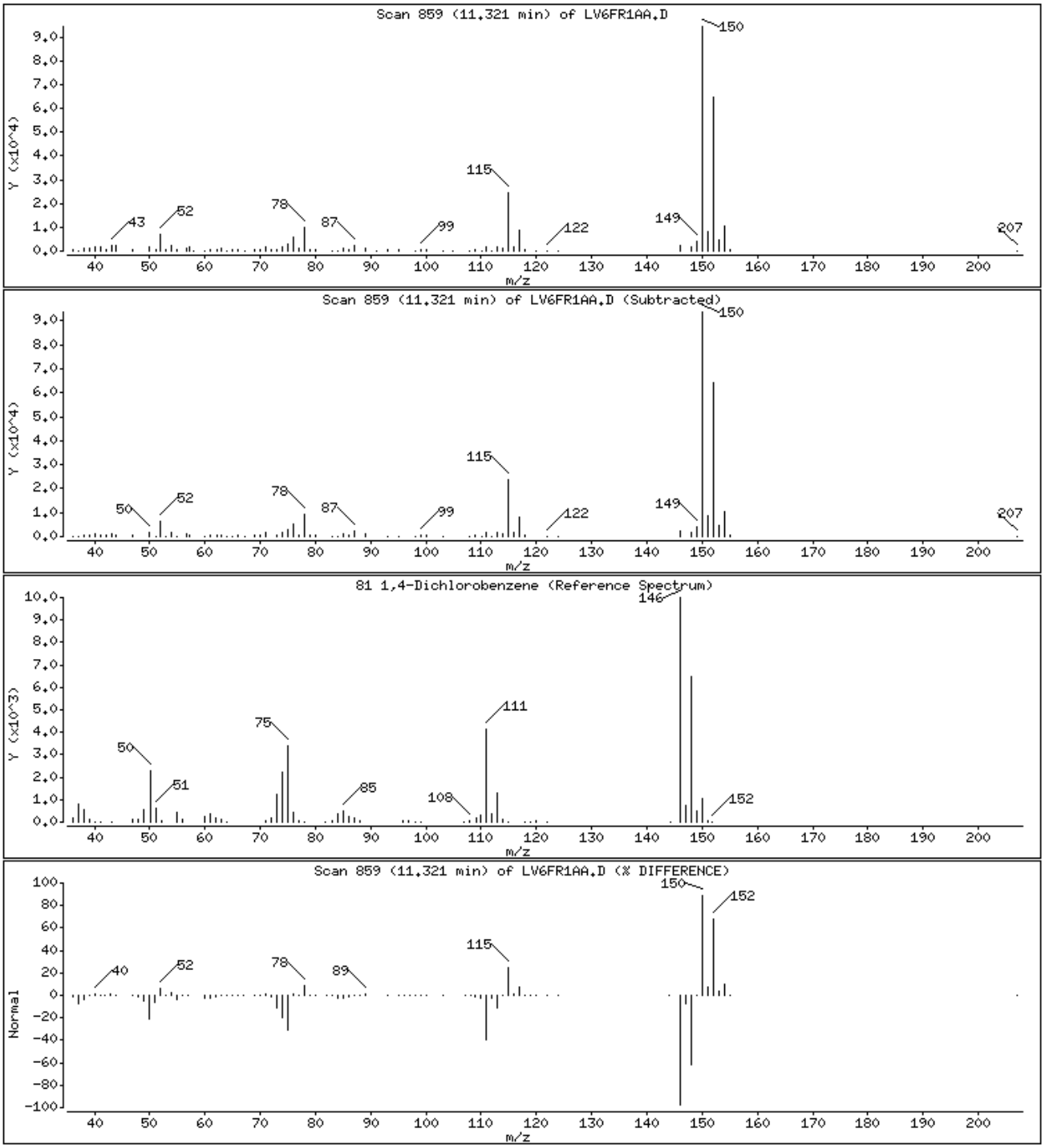
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

81 1,4-Dichlorobenzene Concentration: 0.2025 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

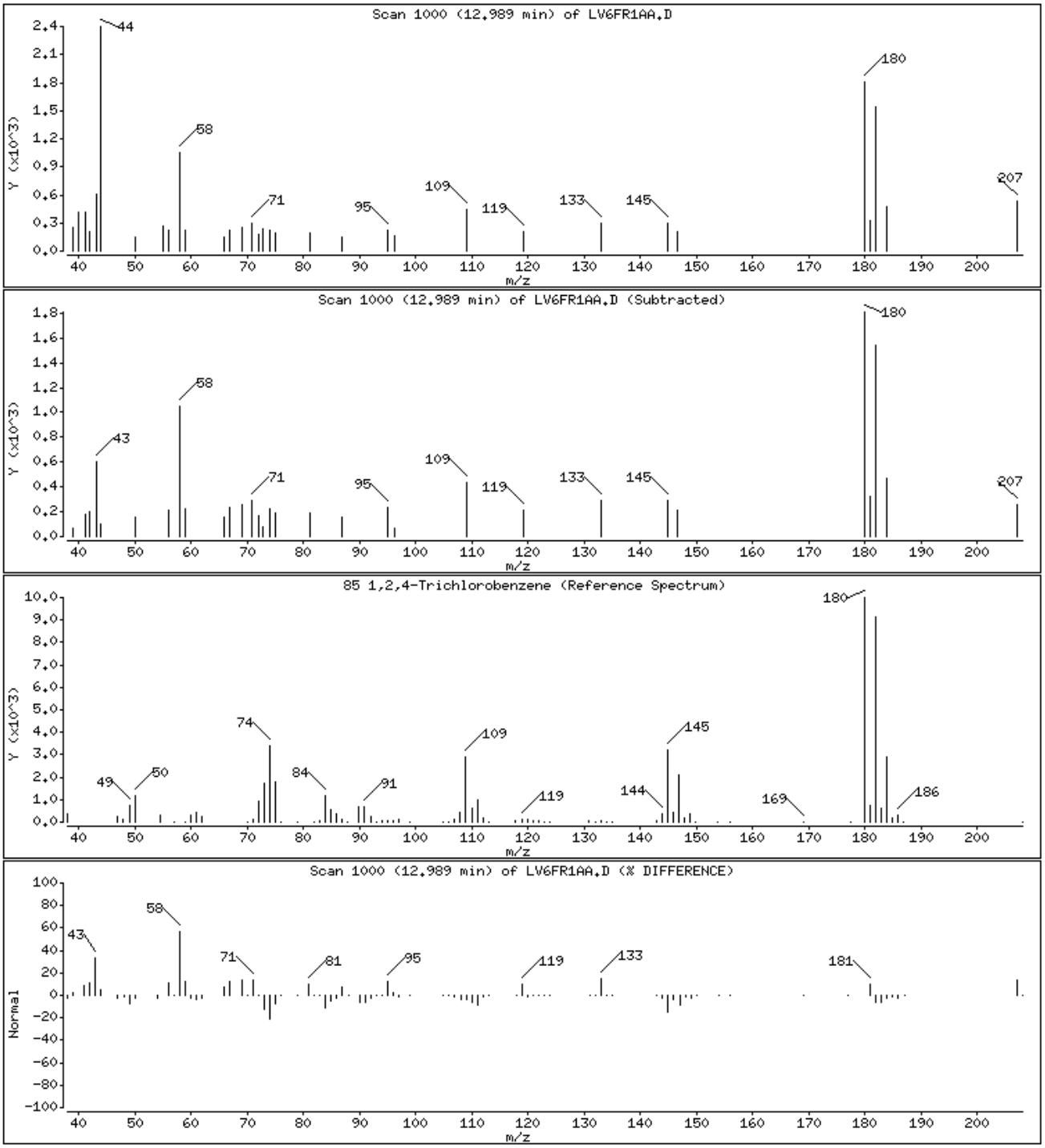
Operator: 2807

Column phase: DB624

Column diameter: 0.18

85 1,2,4-Trichlorobenzene

Concentration: 0.3029 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

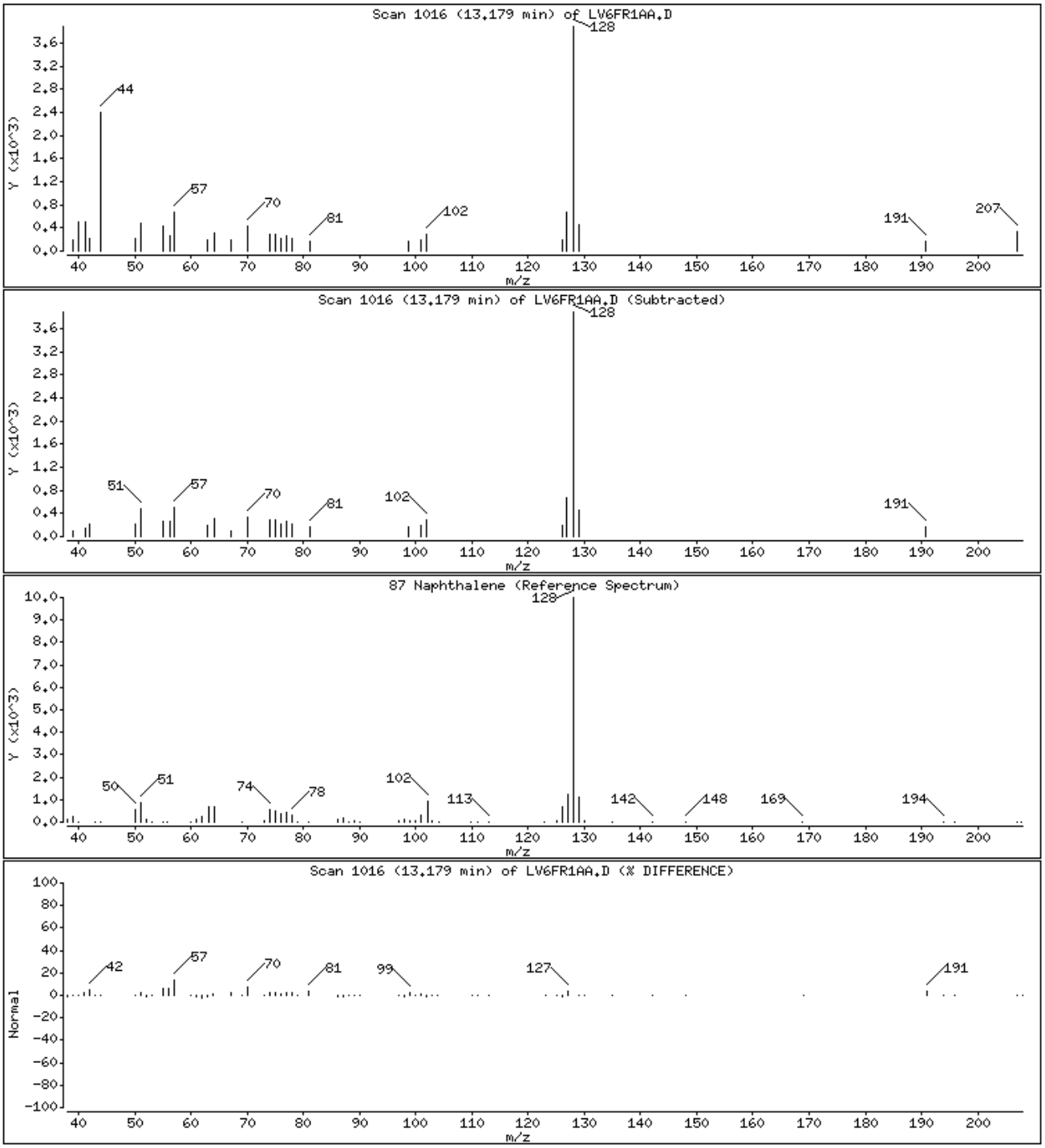
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

87 Naphthalene Concentration: 0.2979 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

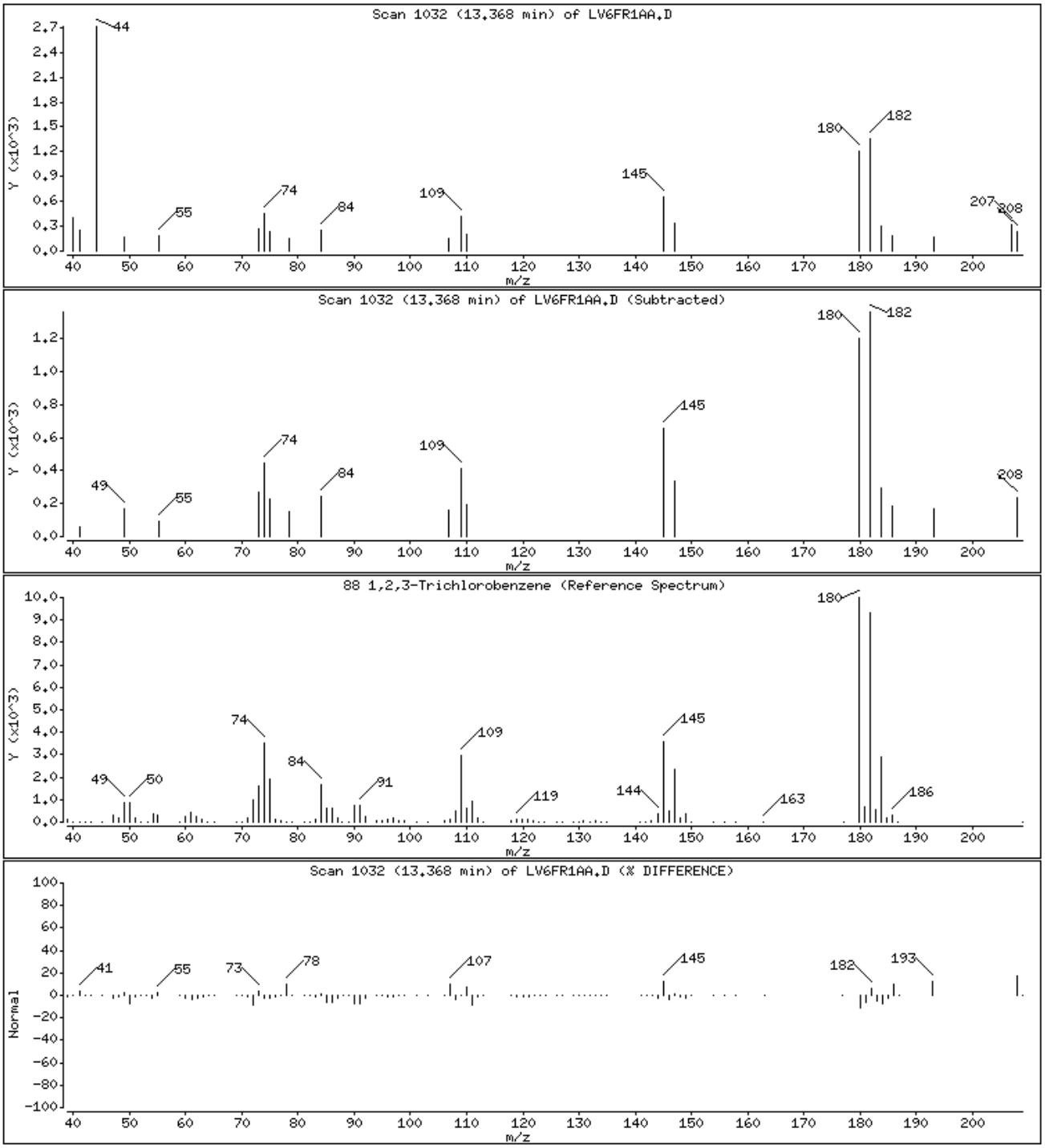
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

88 1,2,3-Trichlorobenzene Concentration: 0.2380 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

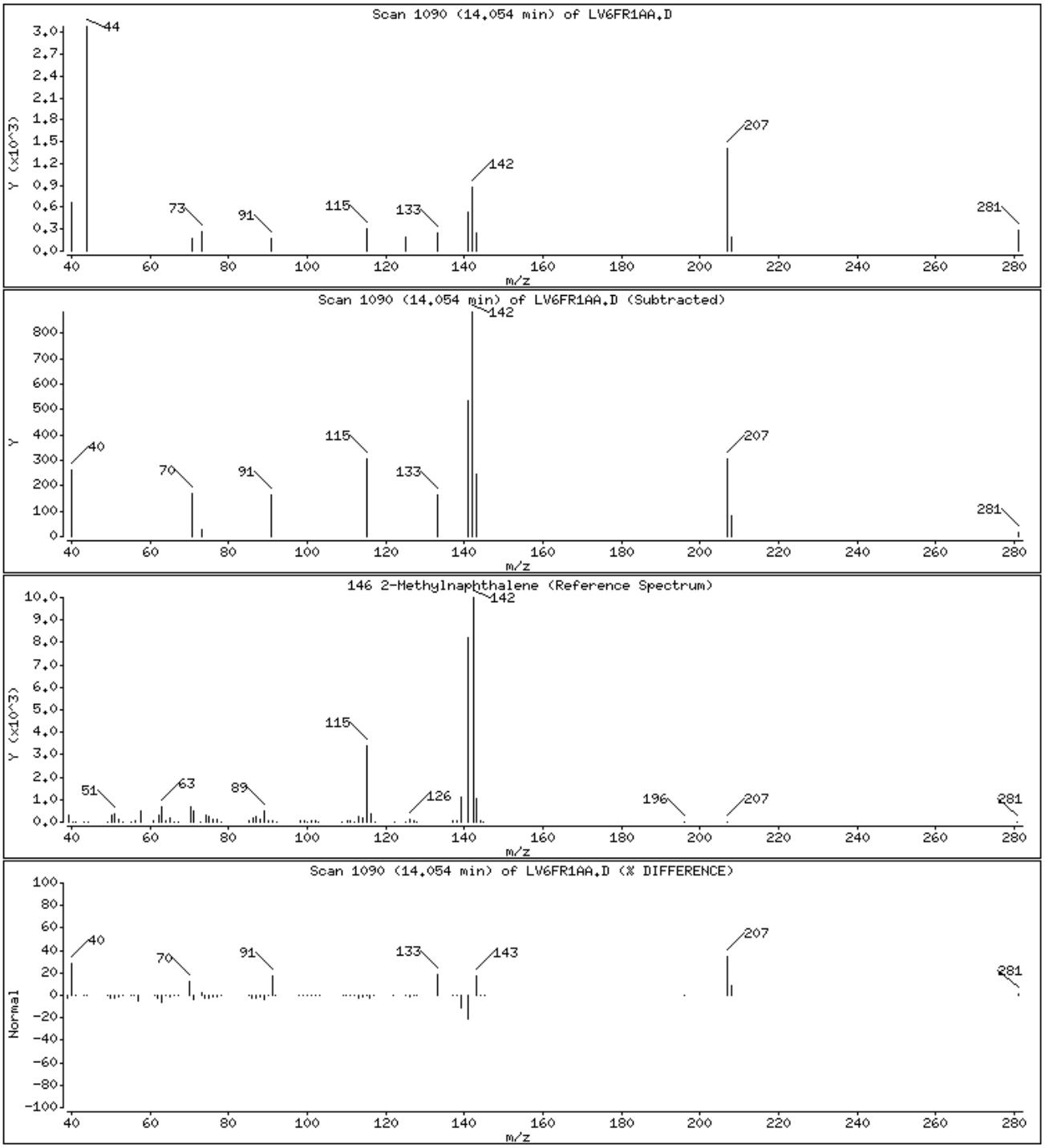
Operator: 2807

Column phase: DB624

Column diameter: 0.18

146 2-Methylnaphthalene

Concentration: 2.426 UG/KG



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Date : 26-FEB-2010 13:41

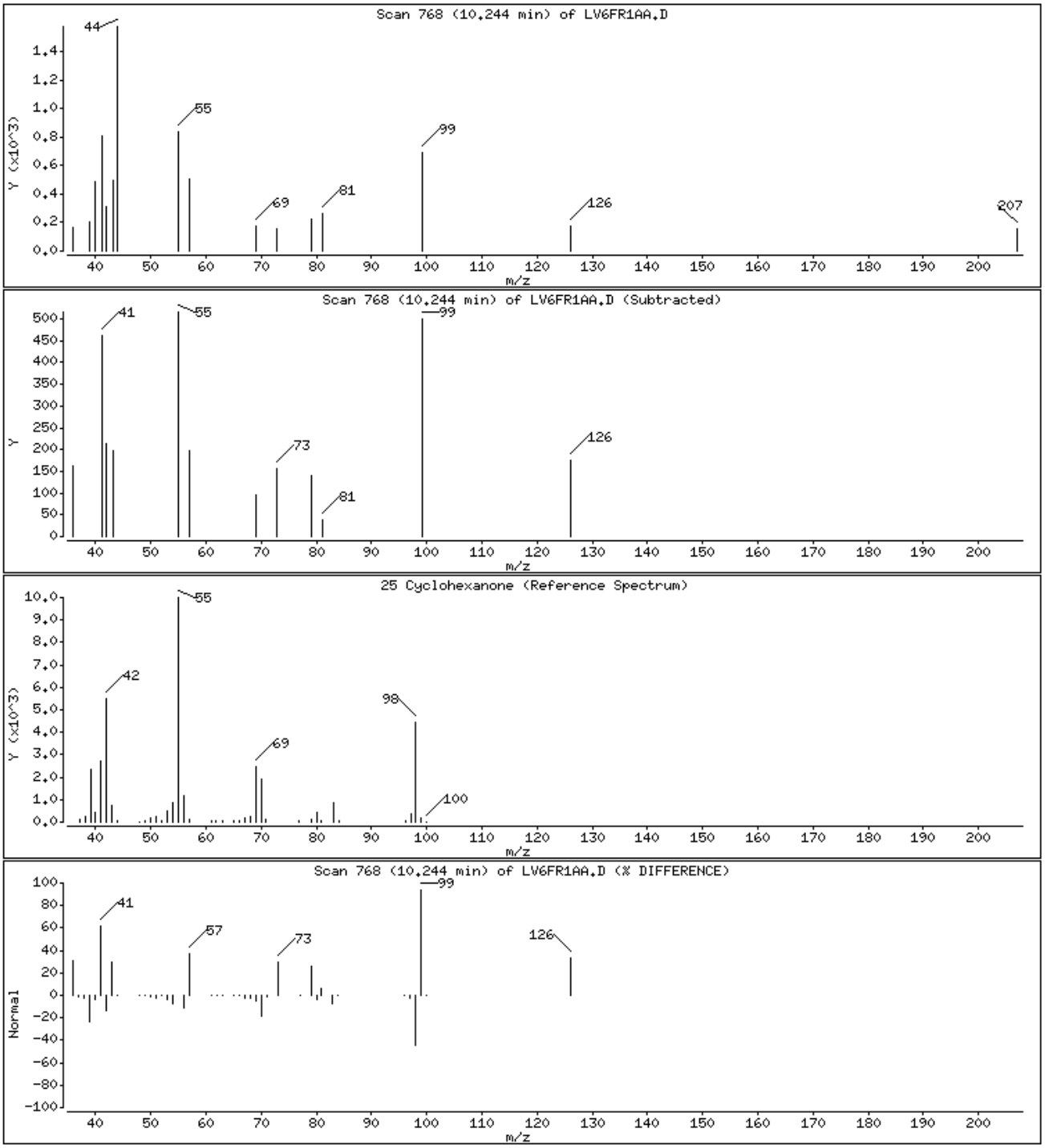
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

25 Cyclohexanone Concentration: 9.891 UG/KG



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Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

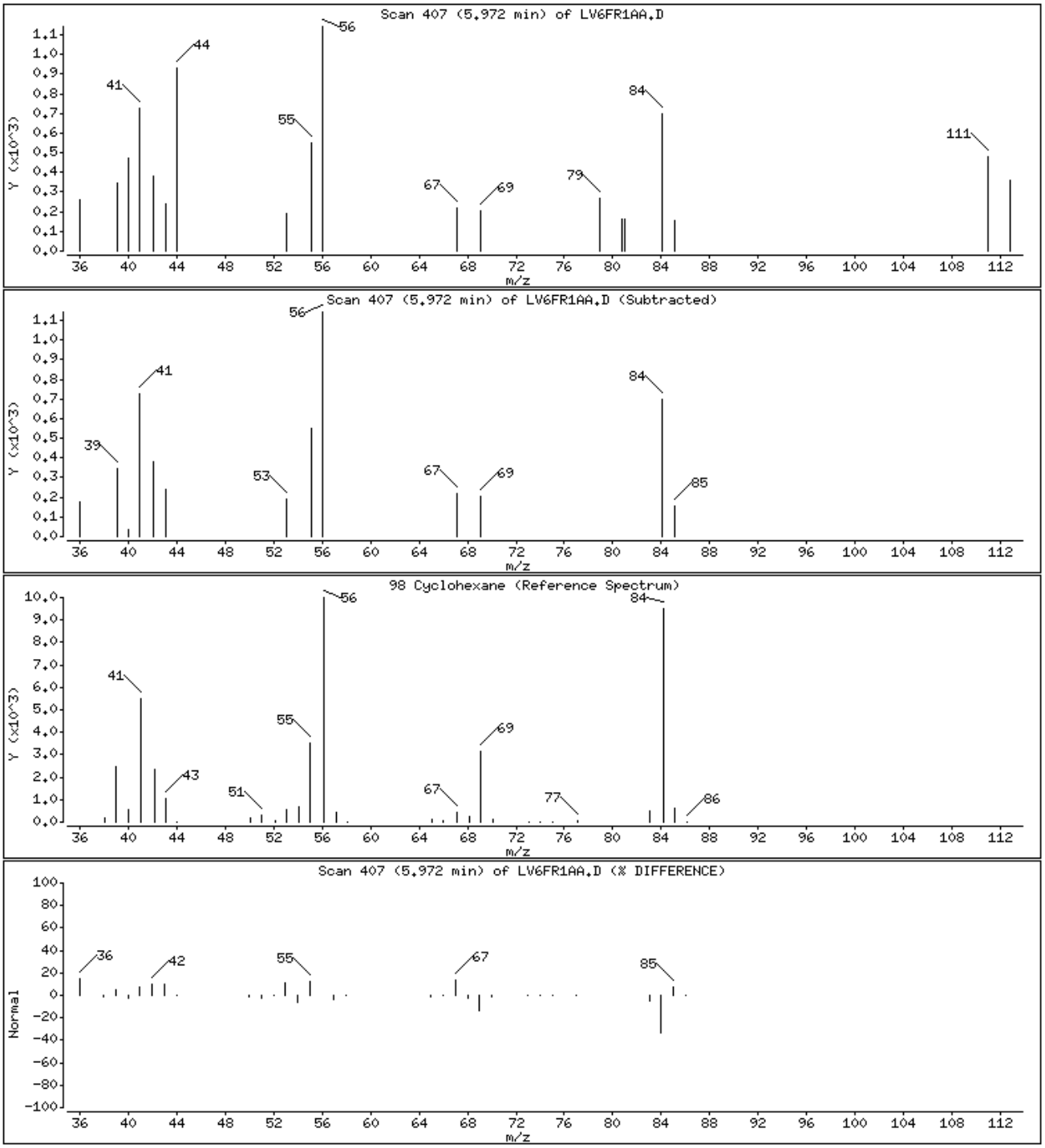
Operator: 2807

Column phase: DB624

Column diameter: 0.18

98 Cyclohexane

Concentration: 0.1739 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

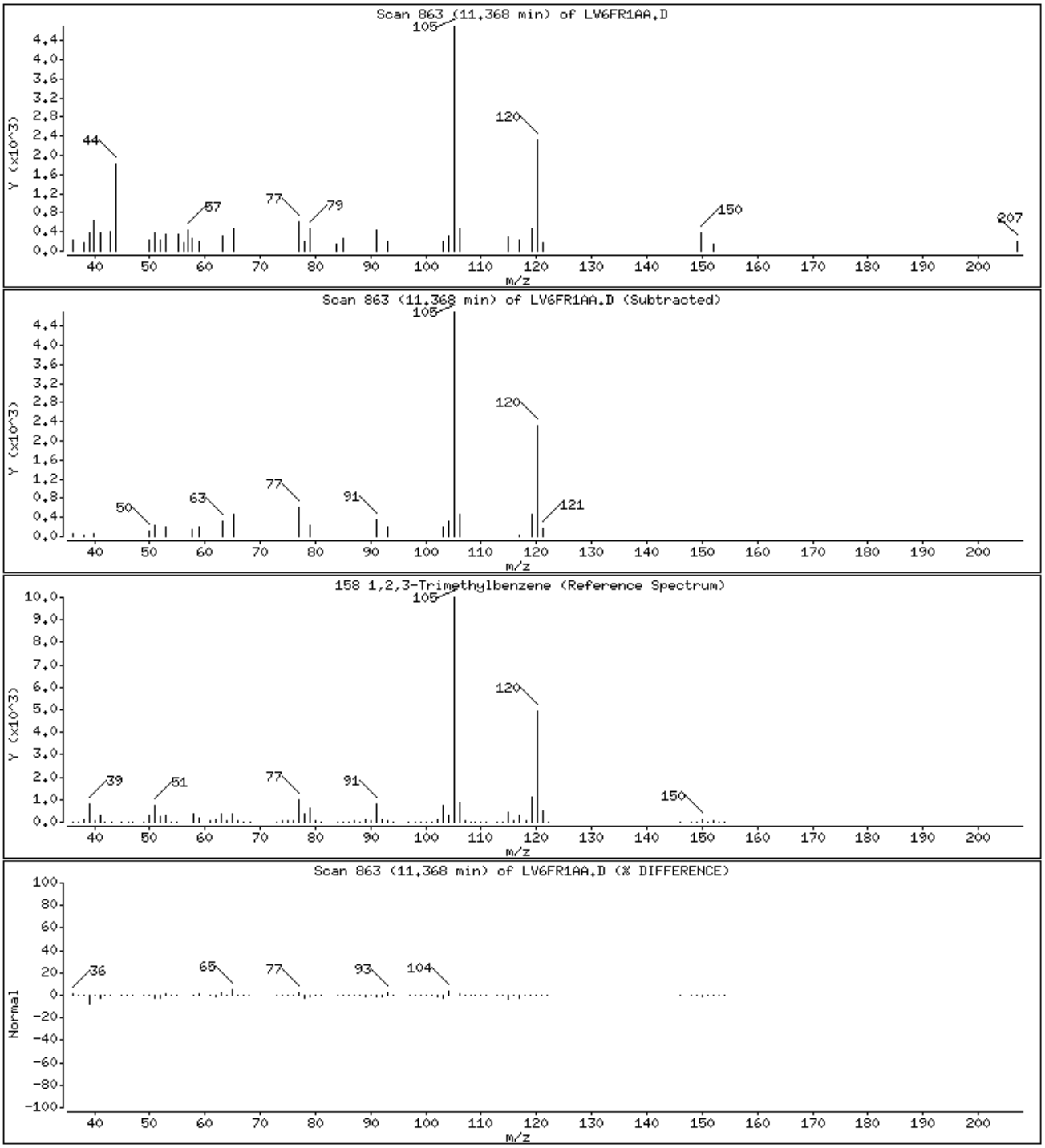
Operator: 2807

Column phase: DB624

Column diameter: 0.18

158 1,2,3-Trimethylbenzene

Concentration: 0.2799 UG/KG



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

UX14
Batch # _____

TestAmerica-North Canton
GC/MS VOA Run Log

Date: 1-14-10

Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB-624	100 C for 1.5 min	35 C for 4 min	Trap: 10
Length 20 M	to 160 C @ 20 C/min	to 45 C @ 18 C/min	Purge: 11
I.D. 0.18 mm	Hold 0.5 min	to 190 C @ 18 C/min	Desorb: 2 min @210 C
Flow Rate .6 ml/min		to 225 C @ 25 C/min hold 1min	Bake: 6 min @ 225 C
He Press: 1000PSI	IS # V8315	SS # V8316	BFB# V8004 EXP 3/10/10	Heated purge: (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status
—	BFB		BFB14310	50 ng	Direct Inj.	(1000)	OK
1	Blank		147351	5 mL/5 mL			OK
2	8260 STD		147352	1000 ng	V8401, V8399 V8404, V8403		OK
3			147353	500 ng			OK
4			147354	250 ng		R00114	OK
5			147355	100 ng			OK
6			147356	50 ng			OK
7			147357	25 ng			OK
8			147358	10 ng			OK
9			147359	5 ng			OK
10	ICV		147360	5 mL/5 mL	250 ng	(Not needed) V8397 FAS	~~OK~~
11	App IX STD		147361	250 ng	V8402, V8372	R00108-A9	OK
12	Bromomethane STD		147362	1000 ng	V8405		OK
13			147363	500 ng			OK
14			147364	250 ng		R00114-BL	OK
15			147365	100 ng			OK
16			147366	50 ng			OK
17			147367	25 ng			OK
18			147368	10 ng			OK
19			147369	5 ng			OK
20	Check		147370	5 g/5 mL	250 ng	V8397 FAS	OK
21	Check Pt/ICV		147371				OK
22	VBLK		147372				OK
23	MDL 8260 - 0.5 ug/kg		147373	5 g/5 mL		V8401, V8399, V8403	OK
24	- 1 ug/kg		147374				OK
25	- 2.5 ug/kg		147375				OK
~~26~~			~~147376~~				
27			147377				
28			147378				
29			147379	SAM 1-15-10			
30			~~147380~~				
31			147381				
32			147382				

Analyst: SAM

Level 2 review: K Date 1-18

Made pdf: _____

MLS / LLS

UX14 0057117
Batch # 0057113 - WA

TestAmerica-North Canton
GC/MS VOA Run Log

2/26
MS#: 0057059

Date: 2-25-10
Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB-624	100 C for 1.5 min	35 C for 4 min	Trap: 10
Length 20 M	to 160 C @ 20 C/min	to 45 C @ 18 C/min	Purge: 11
I.D. 0.18 mm	Hold 0.5 min	to 190 C @ 18 C/min	Desorb: 2 min @210 C
Flow Rate .6 ml/min		to 225 C @ 25 C/min hold 1min	Bake: 6 min @ 225 C
He Press: 2300PSI	IS # V8315	SS # V8316	BFB# V8004 EXP: 3/10/10 Heated purge: (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status	
—	BFB		BFB14338	50ng	Direct Inj.	1110	OK	
1	Blank		148181	5mL/5mL			OK	
2	8260STD		148182	250ng	V8472, V8488 V8499	R00114 / R00114-BR	OK	
3	APP IX STD		148183	250ng	V8493, V8498	R00108-AA	OK	
4	QCMRL		148184	5mL/5mL	25ng	V8492, V8488, V8499	OK	
5	check LV4QN1AC		148185	5g/5mL	250ng	LV4RM1AC V8484 29.937 FAS	OK	
6	check dup LV4QN1AD		148186			LV4RM1AD 70.238	OK	MS: 0054178
7	QCMDL		148187	5mL/5mL	5ng	V8492, V8488 V8499 Acetone w/ 0.02% MeCl2 - ND conc.	OK	
8	VBLK LV4QN1AA		148188	5g/5mL	(ND)	LV4RM1AA	OK	
9	LVOMR1AC	6.65	148189	100mL/5mL	(0055147)	(ND) Prep 2/23 Tert-Butyl Acetate/Heptane 2/26	OK	AOB230409
10	LVVGW1AA	4.47	148190		(0050384)	Prep 2/18 (OH VAP) 3RD IS ONLY 3/1	OK	AOB180524
11	MLSCheck	Acq 2/26	148191	100mL/5mL	(0057120)	5g/5mL LV4RQ1AC	OK	
12	MLSCheckDup		148192			LV4RQ1AD	OK	
13	MLS VBLK		148193		(ND)	LV4RQ1AA	OK	
14	LV2AJ1AC	6.45	148194	100mL/5mL		Acetone-2658 250mL 3/1		AOB240477
15	LV2AM1AC	6.40	148195			Acetone-2745 50mL		
16	LVOMR1AC		148196	6.74g/5mL		Acetone-7332 2-Butanone-2348 ISTD 2/26		AOB230409
17	LVOMT1AC		148197	4.62g/5mL		(poor purge)		
18	LVOM71AC		148198	6.42g/5mL		ISTD (X2)		
19	LVONC1AC		148199	6.64g/5mL	(ND)	Tert-Butyl Acetate/Heptane ISTD (X2)	OK	
20	LV2AN1AC		148200	5.68g/5mL	(ND)	Tert-Butyl Acetate/Heptane 3/1	OK	AOB240477
21	LVQVK1AC		148201	5g/5mL		3/4	OK	AOB160474
22	LVQVL1AN		148202				OK	
23	LVQVL1CF	MS	148203		250ng	ND ISTD V8484 FAS	OK	
24	LVQVL1CG	MSD	148204				OK	
25	LVTQ41AC		148205			ISTD SSA 3/10		AOB180429
26	LVTT71AC		148206				OK	
27	LVVFK1AC		148207			3/11	OK	AOB180524
28	LVVF11AN		148208				OK	
29	QCMRL		148209	5mL/5mL	25ng	V8492, V8488, V8499	OK	
30	QCMDL		148210		10ng		OK	
31	BLANK		148211	5g/5mL			OK	
			SAM	2-26-10				

i478249

Analyst: SAM,
Level 2 review: TB Date 2/26/10

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MLS / LLS

UX14 0060098-WA
Batch # 0060096

TestAmerica-North Canton
GC/MS VOA Run Log

3/1

Date: 2-26-10

Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB-624	100 C for 1.5 min	35 C for 4 min	Trap: 10
Length 20 M	to 160 C @ 20 C/min	to 45 C @ 18 C/min	Purge: 11
I.D. 0.18 mm	Hold 0.5 min	to 190 C @ 18 C/min	Desorb: 2 min @210 C
Flow Rate .6 ml/min		to 225 C @ 25 C/min hold 1min	Bake: 6 min @ 225 C
He Press: 2200PSI	IS # V8315	SS # V8316	BFB# V8004 Exp: 3/10/10

Heated purge: (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status	
—	BFB		BFB14339	50 ng	Direct Inj.	(1048)	OK	
1	Blank		148212	5 mL/5mL			Ok	
2	8260 STD		148213	250 ng	V8492, V8488 V8444	R00114/R00114-BR	Ok	
3	APPIX STD		148214	250 ng	V8493, V8498	R00108-AG	OK	
4	QCMRL		148215	5mL/5mL	25 ng	V8492 2 out low 1 below 60% V8488, V8499	(R)	
5	Check LV6FPIAC	6FPIAC	148216	5g/5mL	250 ng	LV6FRIAC V8503 76-078 FAS	Ok	
6	Check LV6FPIAD	6FPIAD	148217	⊥	⊥	LV6FRIAD ⊥ 68-179	OK	
7	QCMRL		148218	5mL/5mL	25 ng	V8503 V8504 3 out High V8499	OK	
8	MB LV6FPIAA		148219	5g/5mL		LV6FRIAA	OK	
9	LVOMTIAC	4.48	148220	10mL/5mL	(0055147)	(ND) Prep 2/23 TIC-Butyl Acetate/Heptane (EIDi) Hexane 2/24	Ok	A0B230409
10	LVZAJIAC	6.45	148221	50mL/5mL	(0057120)	Prep 2/24 TIC-Butyl Acetate/Heptane 3/1	Ok	A0B240477
11	LVZAMIAC	6.40	148222	⊥	⊥	⊥ ⊥ ⊥	Ok	
12	LVOSQIAC		148223	5g/5mL		SS↓ (x2) 3/1	Ok	A0B230476
13	LVOSQIAC	(Dup)	148224	⊥		SS↓ (x2) ⊥		
14	LVTQ4IAC		148225	5g/5mL		(EIDi) 3/10	OK	A0B180429
15	LVVF6IAN		148226			⊥ 3/11	OK	A0B180514
16	LVIEQIAD		148227			IS↓↓(x2) SS↑↑(x2) 3/3		A0B230510
17	LVIERIAD		148228			⊥	OK	
18	LV3JMIAC		148229			(EIDi) 3/4	OK	A0B250453
19	LV3KQIAC		148230			3/18	OK	A0B250463
20	LV3KRIAN	Set 2-24-10	148231				OK	
21	LV3LLIAC		148232			⊥	OK	
22	LVWW9IAC		148233			IS↓ 3/12		A0B190524
23	LVWXCIAN		148234				OK	
24	LVWX1IAC		148235			IS↓↓		
25	LVWX8IAC		148236			IS↓ SS↑		
26	LVWX8	MS	148237		250 ng	V8503 FAS		
27	LVWX8	MSD	148238		⊥	⊥ ⊥ ⊥		
28	LVO3VIAC		148239	⊥		⊥ 3/16	OK	A0B230467
29	QCMRL		148240	5mL/5mL	25 ng		OK	
30	QCMDL		148241	⊥	10 ng		OK	
31	Blank		148242				OK	
32	Blank		148243	⊥			OK	
33	LVIEQIAD		148244	5g/5mL		IS↓↓ (x2) SS↑ (x2) 3/3	OK	A0B230510

Analyst: SAM

Level 2 review: TS Date 3/1/10

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UX14
Batch # _____

TestAmerica-North Canton
GC/MS VOA Run Log

Date: 2-26-10

Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB-624	100 C for 1.5 min	35 C for 4 min	Trap: 10
Length 20 M	to 160 C @ 20 C/min	to 45 C @ 18 C/min	Purge: 11
I.D. 0.18 mm	Hold 0.5 min	to 190 C @ 18 C/min	Desorb: 2 min @210 C
Flow Rate .6 ml/min		to 225 C @ 25 C/min hold 1min	Bake: 6 min @ 225 C
He Press: 2200PSI	IS # V8315	SS # V8316 BFB# V8004 Exp: 3/10/10	Heated purge: (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status	
—	BFB		BFB14339	50 ng	Direct Inj.	(1048)	OK	
1	Blank		148212	5 mL/5 mL			Ok	
2	8260 STD		148213	25 ng	V8492, V8488 V8499	R00114/R00114-BR	Ok	
3	APPIX STD		148214	250 ng	V8493, V8498	R00108-AG	Ok	
4	QCMRL		148215	5 mL/5 mL	25 ng	V8492 2 out low 1 below 60% V8488, V8499	(R)	
5	CHeck		148216	5g/5mL	250 ng	V8503 FAS	Ok	
6	CHarlyp		148217				OK	
7	QCMRL		148218	5 mL/5 mL	25 ng	V8503, V8504 3 out High V8499	Ok	
8	MBLa		148219	5g/5mL			OK	
9	LVOMTIAC	4.48	148220	100mL/5mL	(0055947)	(ND) Prep 2/23 TIC-Butyl Acetate/Hexane 2%	Ok	A08230409
10	LV2AJIAC	6.45	148221	50mL/5mL	(0057120)	Prep 2/24 3/1	oh	A08230477
11	LV2AMIAC	6.40	148222			3/1	Ok	
12	LVO5QIAC		148223	5g/5mL		SSV (x2) 3/1	Ok	A08230476
13	LVO5QIAC	(Rep)	148224			SSV (x2)		
14	LVTQ4IAC		148225	5g/5mL				
15	LVVF6IAN		148226					
16	LVIEQIAD		148227					
17	LVIERIAD		148228					
18	LV3JMIAC		148229					
19	LV3KQIAC		148230					
20	LV3KRIAAN	SOT 2-26-10	148231					
21	LV3LLIAC		148232					
22	LVWW9IAC		148233					
23	LVWXCIAN		148234					
24	LVWX1IAC		148235					
25	LVWX8IAC		148236					
26	LVWX8	MS	148237		250 ng	V8503 FAS		
27	LVWX8	MSD	148238					
28	LVO3VIAC		148239					
29	QCMRL		148240	5mL/5mL	25 ng			
30	QCMDL		148241		10 ng			
31	Blank		148242					
32	Blank		148243					

Analyst: SAM
Level 2 review: TS Date 2/26/10

Made pdf: _____

TestAmerica-North Canton Standards Log

			STOCK STD					WORKING STD					
Date	Standard	Manufacturer, Name	Lot #	Ampule id#	Exp.	Conc.	Aliquot	Volume	Conc.	Exp.	Analyst	MeOH lot	#
9-2-09	Supplemental Std.	Supplemental Stock	V7924	—	10/31/09	50ppm	1mL	1mL	50ppm	9-9-09	TJL	—	V7982
9-2-09	8260 Surrogate Std.	8260 Surrogate Stock	V7810	—	10/7/09	50ppm	2mL	2mL	50ppm	9-9-09	TJL	—	V7983
9-2-09	Appendix TA Std.	Ultra Scientific Appendix TA Std. CUS-9262	CD-4149	090427-7	1/31/10	50ppm	1mL	1mL	50ppm	9-9-09	TJL	—	V7984
9-2-09	2-Methylnaphthalene Std.	Ultra Scientific 2-MNP Std. SV-200	CC-1242	090319-13	5/31/10	100ppm	1mL	1mL	100ppm	10-2-09	TJL	—	V7985
9.3.09	1,4 DIOXANE STD.	ULTRA CUS-7814	CE-3536	090609-15	11/30/10	2000ppm	200ul	10ml	50ppm	~~10/3/09~~ 10/7/09	LW	649E42	V7986
⊥	1,4 DIOXANE CK STD.	RESTEK #30287	A0552 84	90430-2	9/12	2500ppm	250ul	10ml	50ppm LW 9.30.09	7/10/8/9 ~~7/30/09~~	LW	⊥	V7987
9-3-9	UX8 IS	100ppm IS STK	V7811 LW 9.3.09	—	2-14-10	100ppm	3mL	3mL	100ppm	10-3-9	TL	—	V7988
9-3-9	UX8 SS	100ppm SS STK	V7741	—	12-12-9	100ppm	3mL	3mL	100ppm	10-3-9	TL	—	V7989
9-3-9	UX12 SS	100ppm SS STK	V7741	—	12-12-9	100ppm	3mL	3mL	100ppm	10-3-9	TL	—	V7990
9309	Encore Surrogate	ULTRA STM-530-1	CE-1901	090726-10	6-30-11	2500ug/ml	1ml	1ml	2500ug/ml	10-3-09	JM	—	V7991
9.309	Encore Fas Spike	FAS Spike Stock	V7926	—	9-18-09	50ppm	3ml	3ml	50ppm	9-10-09	JM	—	V7992
9-4-09	Encore Surrogate	Ultra STM-530-1	CE-1901	090728-7	6-30-11	2500 ppm	1 ml	1 ml	2500 ppm	10-4-09	DE	—	V7993
9-609	Encore Fas Spike	FAS Spike Stock	V7926	—	9-19-09	50ppm	3ml	3ml	50ppm	9-13-09	JM	—	V7994
9-7-9	UX12 IS	100ppm IS STK	V7911	—	2-14-10	100ppm	3mL	3mL	100ppm	10-7-9	TL	—	V7995
9-8-09	8260 Auto IS UX8/UX14	Ultra Scientific 8260 IS CUS-8126	CE-3534	081022-4	11/30/10	25,000ppm	1mL	100mL	250ppm	12-8-09	TJL	649E42	V7996
9-9-09	Auto SS UX14	Ultra Scientific 8260 SS CUS-8125	CE3527	081022-2	11/30/10	25000ppm	1mL	100mL	250ppm	12-9-09	SAM	649E42	V7997
9.9.09	Encore Surrogate	ULTRA STM-530-1	CE-1901	090728-6	6-30-11	2500ug/ml	1ml	1ml	2500ug/ml	10-9-09	JM	—	V7998
9-10-09	FAS Spike Std.	FAS Spike Stock	V7926	—	9/19/09	50ppm	3mL	3mL	50ppm	9-17-09	TJL	—	V7999
9.10.09	PRIMARY STD.	ULTRA SCIENTIFIC CUSTOM STD. CUS-7814	CE-3536	090609-17	11/30/10	50ppm	1ml	1ml	50ppm	9.17.09	LW	—	V8000
|	SUPPLEMENTAL STD.	SUPPLEMENTAL STK.	V7924	—	10/31/09	50ppm	1ml	1ml	50ppm	9.17.09	LW	—	V8001
|	APPENDIX TX STD.	ULTRA SCIENTIFIC APP. TX STD. CUS-9262	CD-4149	090427-8	1/31/10	50ppm	1ml	1ml	50ppm	9.17.09	LW	—	V8002
⊥	C-GAS	ULTRA SCIENTIFIC VOC GAS MIX DWM-544-1	CF-0524	090427-19	2/28/12	2000ppm	250ul	10ml	50ppm	9.17.09	LW	649E42	V8003
9/10/09	BFB Tuning STD.	ULTRA Science 4-BFB STAS-110N LW 9.10.09	CC-1085	090109-1	5/31/10	2000ppm	1.25mL	50mL	50ppm	3/10/10 9-10-09	SAM	649E42	V8004
9-11-09	8260 SS STD	8260 SS STOCK	V7810	—	10/7/09	50PPM	2mL	2mL	50PPM	9-18-09	KR	—	V8005
⊥	PRIMARY STD	ULTRA SCI. CUSTOM STD CUS-7814	CE-3536	090609-18	11/30/10	50PPM	1mL	1mL	50PPM	9-18-09	KR	—	V8006
9-11-09	UX10 SS STOCK	ULTRA SCI. STM 530-1	CE-1901	090728-9	6/30/11	2500PPM	854uL	50mL	42.7PPM	12-11-09	KR	649E42	V8007

TestAmerica-North Canton Standards Log

			STOCK STD						WORKING STD				
Date	Standard	Manufacturer, Name	Lot #	Ampule id#	Exp.	Conc.	Aliquot	Volume	Conc.	Exp.	Analyst	MeOH lot	#
1/4/10	FAS STD	FAS STOCK	V8340	–	1/16/10	50PPM	3mL	3mL	50 PPM	1/11/10	RR	–	V8386
1/5/10	ENCORE FAS SPIKE	FAS STOCK	V8340	–	1/16/10	50PPM	2mL	2mL	50 PPM	1/12/10	TS		V8387
1/5/10	8260 Low Level Std.	Primary Std.	V8381	—	1/6/10	50ppm	50uL	1mL	25ppm	1/6/10	TJL	G50E19	V8388
		Supplemental Std.	V8383	—	1/7/10								V
		C-GAS Std.	V8377	—	1/6/10								V
		8260 Surrogate Std.	V8379	—	1/6/10								V
1/6/10	Primary Std.	Ultra Scientific Custom Std. CUS-7814	CF-3973	090930-19	10/31/11	50ppm	1mL	1mL	50ppm	1/13/10	TJL	—	V8389
	Supplemental Std.	Supplemental Stock	V8382	—	3/28/10							—	V8390
	C-GAS Std.	Ultra Scientific VOC-GAS MIX DWM-544	CF-2961	091009-2	8/31/12	2000ppm	250uL	10mL				G50E19	V8391
	Appendix IX Std.	Ultra Scientific Custom Std. CUS-9262	CD-4149	090728-14	1/31/10	50ppm	1mL	1mL				—	V8392
	8260 SS Stock	Ultra Scientific 8260 Surrogate STD MIX STM-530	CE-1901	091123-14	6/30/11	2500ppm	1mL	5mL		4/6/10		G50E19	V8393
	8260 SS Std.	8260 SS Stock	V8393	—	4/6/10	50ppm	2mL	2mL		1/13/10		—	V8394
1/7/10	ENCORE SURROGATE	ULTRA STM-530-1	CE-1901	091123-15	6/30-11	2500ug/mL	1mL	1mL	2500ug/mL	2-6-10	JMH	—	V8395
1-11-10	FAS Stock Spike	Restek Custom Revised VOA MIX #1 563785	A070716	091015-10	1/10	7500PPM	1mL	50mL	150PPM	1/31/10	SAM	G50E19	V8396
		Restek Custom MIX #2 556005	A070764	091016-5	4/11	2500PPM			50PPM				V
		Restek Custom 2-CLEVE 556006	A065728	090213-8	8/10								V
		Restek Custom Revised Supplemental Spike 563136	A068177	090615-4	6/14								V
		Restek Vinyl Acetate STD. 30216	A064655	091007-10	11/13	2000PPM	1.25mL						V
		Supelco VOA 8260 Ketone MIX 86-1149	LB62111	090720-4	3/11								V
		Supelco VOA Organic Comp. MIX #6 48799-U	LB68777	090720-3	9/10								V
1-11-10	FAS Spike STD	FAS Stock Spike	V8396	—		50PPM	3mL 5mL	1-11-10 3mL	50PPM	1/18/10	SAM	—	V8397
1-11-10	Supplemental Stock	Ultra Scient. CUS-8634	CF-4178	091027-3	2/28/10	5000PPM / 25000PPM	1mL	5mL	100PPM / 500PPM	2-28-10	SAM	G50E19	V8398
		Ultra Scient. CUS-5013	CF-4289	091027-3	2/28/10	2500PPM			50 PPM				V
		Ultra Scient. EPA-1016	CE-1722	090609-9	6/30/11	5000PPM			100 PPM				V
		Restek VOC MIX #1 30006	A062157	090604-4	11/11								V
1-11-10	Supplemental STD.	Supplemental Stock STD	V8398	—	2/28/10	50PPM	1mL	1mL	50PPM	1/18/10	SAM	—	V8399

TestAmerica-North Canton Standards Log

			STOCK STD					WORKING STD					
Date	Standard	Manufacturer, Name	Lot #	Ampule id#	Exp.	Conc.	Aliquot	Volume	Conc.	Exp.	Analyst	MeOH lot	#
12/15/09	encore fas Spike	FAS Spike Stock	V8267	—	12/23/09	50ppm	3ml	3ml	50ppm 1ml 12-15-09	12-22-09 12-30-09	JM	—	V8337
12/15/09	FAS STD	FAS STK	V8267	—	12/23/09	↓	↓	↓	↓	↓	JR	—	V8338
↓	Primary STD	Ultra cus 7814	CE 3973	090930-4	10/31/2011	50ppm	1ml	1ml	50ppm	12/23/09	JR	—	V8339
12-16-09	FAS spike Stock	Restek Custom Revised VOA mix #1 563785	A070716	091015-8	1/10	7500PPM	1mL	50mL	150PPM	1/16/10	SAM	649642	V8340
		Restek custom MIX#2 556005	A065735	090216-8	8/10	2500PPM			50PPM				V
		Restek custom 2-CLEVE 556006	A065728	090213-9	8/10								V
		Restek custom Revised supplemental spk. 563136	A068177	090615-9	6/14	↓	↓						V
		Restek Vinyl Acetate STD. 30216	A058387	081118-9	1/13	2000 PPM	1.25mL						V
		Supelco VOA 8260 Ketone MIX 86-1149	LB62111	090720-2	3/11								V
		Supelco VOA organic compl MIX #6 48799-4	LB68277	090720-2	9/10	↓	↓	↓	↓	↓	↓	↓	V
12-16-09	FAS Spike STD.	FAS Spike Stock	V8340	—	1/16/10	50PPM	3mL	3mL	50PPM	12/23/09	SAM	—	V8341
12-17-09	8260 Surrogate Std.	8260 Surrogate Stock	V8115	—	1/8/10	50ppm	2mL	2mL	50ppm	12/24/09	TJL	—	V8342
12-17-09	8260 Low Level Std.	Primary Std.	V8339	—	12/24/09	50ppm	50uL	1mL	2.5ppm	12/21/09	TJL	649642	V8343
		Supplemental Std.	V8329	—	12/21/09								V
		C-645 Std.	V8324	—	12/21/09								V
		Benzyl Chloride Std.	V8336	—	1/14/10								V
		8260 Surrogate Std.	V8342	—	12/24/09	↓	↓	↓	↓	↓	↓	↓	V
12-17-09	SUPPLEMENTAL STD	SUPPLEMENTAL STOCK	V8184	—	1/29/10	50PPM	1mL	1mL	50PPM	12-24-09	RR	—	V8344
↓	PRIMARY STD	ULTRA CUS-7814	CF-3923	090930-5	10/31/11	50PPM	1mL	1mL	50PPM	12-24-09	RR	—	V8345
12-18-09	UX10 SS STOCK	ULTRA STM 530-1	CE-1901	090930-6	6/30/11	2500PPM	854uL	50mL	42.7PPM	3-18-10	RR	649642	V8346
12-18-09	UX10 IS	8260 IS STOCK	V8319	—	3/11/10	50PPM	3mL	3mL	50PPM	1-18-10	RR	—	V8347
↓	UX10 SS	UX10 SS STOCK	V8346	—	3/18/10	42.7PPM	3mL	3mL	42.7PPM	1-18-10	RR	—	V8348
12-18-9	100ppm SS STK	ULTRA STM-530 SS	CE1901	090930-5-7	6-30-11	2500ppm	2mL	50mL	100ppm	6-18-10	TL	649642	V8349
12-18-9	UX12 SS	100ppm SS STK	V8349	—	6-18-10	100ppm	3mL	3mL	100ppm	1-18-10	TL	—	V8350
12-18-9	UX9 SS	100ppm SS STK	V8349	—	6-18-10	100ppm	3mL	3mL	100ppm	1-18-10	TL	—	V8351
12-18-9	UX9 IS	100ppm IS STK	V8333	—	6-14-10	100ppm	3mL	3mL	100ppm	1-18-10	TL	—	V8352

TestAmerica-North Canton Standards Log

			STOCK STD					WORKING STD					
Date	Standard	Manufacturer, Name	Lot #	Ampule id#	Exp.	Conc.	Aliquot	Volume	Conc.	Exp.	Analyst	MeOH lot	#
1/25/10	Encore FAS Spike	FAS Spike Stock	V8396	—	1/31/10	50ppm	3mL	3mL	50ppm	1/31/10	TS	—	V 8426
1/25/10	UX15 IS	8260 IS STK	V8442	—	4/19/10	50ppm	3mL	3mL	50ppm	2/25/10	JR	—	V 8427
↓	UX15 SS	UX15 SS STK	V8303	—	3/23/10	39.9 ppm	3mL	3mL	39.9 ppm	↓	JR	—	V 8428
1-25-10	Encore Surrogate	ULTRA STM-530-1	CE-1901	091123-19	6-30-11	2500ug/mL	1mL	1mL	2500ug/mL	2-24-10	SAM	—	V 8429
1/26/10	Heptane STOCK	Chem Service Heptane 0733	377-806	—	4/14	neat	0.100g	10mL	10,000 ppm	2/26/10	JR	GS0E/9	V 8430
↓	Heptane STD	Heptane STK	V8430	—	2/26/10	10,000ppm	50µL	10mL	50ppm	2/26/10	JR	↓	V 8431
↓	1-Chloro Heptane STD	Ultrasci EPA #1208	CF3157	090805-3	9/30/12	1000ppm	500µL	10mL	50ppm	2/26/10	JR	↓	V 8432
1-27-10	PRIMARY STD.	ULTRA SCIENTIFIC CUSTOM STD. CUS-7814	CF3973	091123-2	10/31/11	50ppm	1mL	1mL	50ppm	2/3/10	LW	—	V8433
↓	SUPPLEMENTAL STD.	SUPPLEMENTAL STK.	V8398	—	2/28/10	50ppm	1mL	1mL	50ppm	2/3/10	LW	—	V 8434
1-27-10	Primary Stock	ULTRA SCIENTIFIC CUSTOM STD. CUS-10798	CF-7914	090506-4	5/31/11	2500PPM	1mL	50mL	50PPM	4/27/10	SAM	GS0E/9	V 8435
1-27-10	Primary STD.	Primary Stock	V8435	—	4/27/10	50PPM	1mL	1mL	50PPM	2-3-10	SAM	—	V 8436
1-27-10	FAS STD	FAS STOCK	V8396	—	1/31/10	50PPM	3mL	3mL	50 PPM	1-31-10	RR	—	V 8437
1-27-10	FAS Stock Spike	Restek custom Revised VOA mix#1 563785	A070716	091015-9	1/10	7500PPM	1mL	50mL	150PPM	1-31-10	SAM	GS0E19	V 8438
↓	↓	Restek custom mix#2 556005	A065735	090216-7	8/10	2500PPM	↓	↓	50 PPM	↓	↓	↓	V
		Restek custom 2-CLEVE 556006	A065728	090213-7	8/10	↓			↓				V
		Restek custom Revised Supplemental spk 563136	A068177	090615-2	6/14	↓	↓						V
		Restek Vinyl Acetate STD. 30216	A064655	091007-1	11/13	2000PPM	1.25mL						V
		Supelco VOA 8260 Ketone MIX 86-1149	LB62111	090720-11 -12	3/11	↓	↓						V
↓	↓	Supelco VOA oxygate comp. MIX #6 48799-U	LB68277	090720-4	9/10	↓	↓	↓	↓	↓	↓	↓	V
1-27-10	FAS Spike STD	FAS Stock Spike	V8438	—	1/31	50PPM	3mL	3mL	50PPM	1-31-10	↓	—	V 8439
1-28-10	UX10 IS	8260 IS STOCK	V8412	—	4/19/10	50PPM	3mL	3mL	50 PPM	2-28-10	RR	—	V 8440
↓	UX10 SS	UX10 SS STOCK	V8346	—	3/18/10	42.7PPM	3mL	3mL	42.7PPM	2-28-10	RR	—	V 8441
1-28-10	UX12 IS	100ppm IS STK	V8393	—	6-14-10	100ppm	7mL	9mL	100ppm	2-28-10	JR	—	V 8442
1-28-10	UX12 SS	100ppm SS STK	V8149	—	6-18-10	100ppm	7mL	7mL	100ppm	2-28-10	JR	—	V 8443
1-29-10	UX16 IS	8260 IS STK	V8412	—	4/19/10	50ppm	3mL	3mL	50ppm	2/29/10	LW	—	V 8444
1-30-10	Encore Surrogate	ULTRA STM-530-1	CE-1901	091123-20	6-30-11	2500ug/mL	1mL	1mL	2500ug/mL	2-28-10	SAM	—	V 8445

TestAmerica-North Canton Standards Log

			STOCK STD						WORKING STD				
Date	Standard	Manufacturer, Name	Lot #	Ampule id#	Exp.	Conc.	Aliquot	Volume	Conc.	Exp.	Analyst	MeOH lot	#
1-30-10	encore fus Spike	FAS Spike & Stock STD	V8438	—	1-31-10	50ppm	3ml	3ml	50ppm	1-31-10	JM	—	V8446
2-1-10	UX16 SS STK	ULTRA STM-530-1	CE-1901	091123-2	6/30/11	2500ppm	842 ml	50ml	42.1ppm	5/1/10	cw	G50E14	V8447
⊥	UX16 SS	UX16 SS STK	V8447	—	5/1/10	42.1ppm	3ml	3ml	42.1ppm	3/1/10	cw	—	V8448
2/1/10	Cgas	Ultra Drum 544-1	CF 2961	091005T	5/31/2012	2000ppm	250µl	10ml	50ppm	3/8/10	h	G50E14	V 8449 ✓
⊥	Ag STD	Ultra CUS-9262	CD-4144	090728	12/31/2010	50ppm	1ml	1ml	50ppm	3/8/10	h	—	V 8450
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TestAmerica-North Canton Standards Log

			STOCK STD					WORKING STD					
Date	Standard	Manufacturer, Name	Lot #	Ampule id#	Exp.	Conc.	Aliquot	Volume	Conc.	Exp.	Analyst	MeOH lot	#
1-11-10	Encore FAS Spike	FAS Stock Spike	V8396	—	1/31/10	50ppm	3mL	3mL	50ppm	1-18-10	TJL	—	V8400
1-13-10	PRIMARY STD	ULTRA CUS-7814	CF-3473	091123-1	6/30/11	50PPM	1mL	1mL	50PPM	1-20-10	RD	—	V8401
1-14-10	APPIX STD	ULTRA SCIENC. CUS-9262	CD-4149	090728-15	1/31/10	50PPM	1mL	1mL	50PPM	1-21-10	SAM	—	V8402
1-14-10	C-gas STD.	ULTRA SCIENC VOC GAS. MIX DWM-544	CF-2961	091009-3	8/31/12	2000PPM	250uL	10mL	50PPM	1-21-10	SAM	G50E19	V8403
1-14-10	8260 SS STD	8260 SS Stock	V8393	—	4/6/10	50PPM	2mL	2mL	50PPM	1-21-10	SAM	—	V8404
1-14-10	Bromomethane STD	ULTRA SCIENC HC-030-1 Bromomethane 50/N.	CC-3383A	100114-1	1/31/13	100ug/mL	1mL	2mL	50PPM	1-21-10	SAM	G50E19	V8405
1-14-10	UX12 IS	100ppm IS STK	V8393	—	6-14-10	100ppm	3mL	3mL	100ppm	2-14-10	TC	—	V8406
1/14/10	ENCORE SURROGATE	ULTRA STM-530-1	CE-1901	091123-16	6/30/11	2500ug/ml	1ml	1ml	2500ug/ml	2-13-10	JM	—	V8407
1-15-10	UX16 SS	UX16 SS STK.	V8178	—	1/29/10	42.1ppm	3mL	3mL	42.1ppm	1/29/10	MW	—	V8408
1-18-10	UX9 IS	100ppm IS STK	V8393	—	6-14-10	100ppm	3mL	3mL	100ppm	2-18-10	TC	—	V8409
〃	UX9 SS	100ppm SS STK	V8349	—	6-18-10	100ppm	3mL	3mL	100ppm	2-18-10	TC	—	V8410
1-18-10	2-METHYLNAPHTHALENE	ULTRA SV-200 2-MNP	CC1242	090219-4	5-31-10	100ppm	1mL	1mL	100ppm	2-18-10	TC	—	V8411
1/19/10	8260 B3 STK	Ultra STM 520-1	CD-3947	090427-15	12/31/2010	2500	1mL	50mL	50ppm	4/19/10	JL	G50E19	V8412
〃	8260 B3	8260 B3 STD	V8412	—	2/19/10	50ppm	3mL	3mL	50ppm	2/19/10	JL	—	V8413
〃	UX11 SS	UX11 SS STK	V8224	—	2/5/10	70ppm	3mL	3mL	70ppm	2/19/10	JL	—	V8414
〃	FAS STD	FAS STK	V8396	—	1/31/10	50ppm	3mL	3mL	50ppm	1/20/10	JL	—	V8415
〃	Supplemental STD	Suppl. STK	V8348	—	2/28/10	50ppm	1mL	1mL	50ppm	1/20/10	JL	—	V8416
1/19/10	UX10 IS	8260 IS Stock	V8412	—	4/19/10	50PPM	3mL	3mL	50PPM	~~2/19/10~~ 1-19-10	RD	—	V8417
〃	UX10 SS	UX10 SS STOCK	V8346	—	2/18/10	42.7PPM	3mL	3mL	42.7PPM	2/19/10	RD	—	V8418
1-20-10	ENCORE FAS Spike	FAS Spike Stock	V8396	—	1-31-10	50ppm	3ml	3ml	50ppm	~~1-31-10~~ 1-27-10 1ml	JM	—	V8419
1-20-10	Primary Std.	ULTRA Prior C-1-11 Custom Std. CUS-7814	CF-3473	091123-1	12/31/11	50ppm	1mL	1mL	50ppm	1-27-10	TJL	—	V8420
1-20-10	ENCORE SURROGATE	ULTRA STM-530-1	CE-1901	091123-17	6/30/11	2500ug/ml	1ml	1ml	2500ug/ml	2-19-10	JM	—	V8421
1-21-10	8260 SS	8260 SS STK	V8393	—	4-6-10	100ppm	2mL	2mL	100ppm	1-28-10	TC	—	V8422
1/22/10	A4 STD	Ultra CUS 9262	CD-4149	090708-16	1/31/2010	50ppm	1mL	1mL	50ppm	1/29/10	JL	—	V8423
〃	C-gas	Ultra Dwm-544-1	CF 2961	091009-4	1/20/12	2000ppm	250uL	10mL	50ppm	1/29/10	JL	G50E19	V8424
1-22-10	ENCORE SURROGATE	ULTRA STM-530-1	CE-1901	091123-16	6-30-11	2500ug/ml	1ml	1ml	2500ug/ml	2-21-10	JM	—	V8425

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

1/9/09

4-Bromofluorobenzene Solution

Product STS-110N **Page:** 1 of 1
Lot Number: CC-1085 **Lot Issue Date:** Apr-2006 **Expiration Date:** May-2010

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001:2000 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	45132	2005 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Balances used in the manufacture of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851.01
ISO 9001:2000 Registered TUV USA, Inc. Cert. No. 06-1004

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

See Reverse For Additional Information

William J. Leary
Quality Assurance Manager

Certificate of Analysis

7/20/09 TS

DESCRIPTION: 8260 Ketones Mix

CATALOG NO.: 861149 MFG DATE: Oct-2008

LOT NO.: LB62111 EXPIRATION DATE: Mar-2011

SOLVENT: METHANOL:WATER (30:70)

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION	STD DEV	SUPELCO LOT NO
ACETONE	67-64-1	99.9	2000	2000	+/- 13.4	LB54838
CYCLOHEXANONE	108-94-1	99.7	20000	20896	+/- 298.6	LB52362
2-BUTANONE	78-93-3	99.9	2001	2016	+/- 16.3	LB38154
2-HEXANONE	591-78-6	99.9	2001	2027	+/- 22.7	LB48429
4-METHYL-2-PENTANONE	108-10-1	99.9	2000	2000	+/- 18.4	LB25803

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.

(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

SUPELCO® Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

7/20/09 TB

DESCRIPTION: Volatile Organic Compounds Mix 6

CATALOG NO.: 48799-U MFG DATE: Jun-2009

LOT NO.: LB68277 EXPIRATION DATE: Sep-2010

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
BROMOMETHANE	74-83-9	99.9 (a)	2000	2000	+/-	39.7	LB22203
CHLOROETHANE	75-00-3	99.9 (a)	2000	2056	+/-	24.5	LB55667
CHLOROMETHANE	74-87-3	99.9 (a)	2000	2062	+/-	32.6	LB64986
DICHLORODIFLUOROMETHANE	75-71-8	99.9 (a)	2000	2043	+/-	43.2	LB24923
TRICHLOROFLUOROMETHANE	75-69-4	99.9 (a)	2000	2061	+/-	27.1	LA91320
VINYL CHLORIDE	75-01-4	99.9 (a)	2000	2006	+/-	24.9	LB66643

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.
a) GC; detector HALL

(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

SUPELCO® Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

6/15/09
TS

Gravimetric Certificate

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No.: 563136 **Lot No.:** A068177
Description: Custom Revised Supplemental Spike Mix
Expiration Date [1]**:** June 2014 **Storage:** Freezer

Component #	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	Percent Uncertainty [4]
1	1,1,1,2-Tetrachloroethane	630-20-6	99%	2,500.000 ug/ml	+/-0.59 %
2	1,1-Dichloropropene	563-58-6	99%	2,500.000 ug/ml	+/-0.59 %
3	1,2,3-Trichlorobenzene	87-61-6	99%	2,500.000 ug/ml	+/-0.59 %
4	1,2,3-Trichloropropane	96-18-4	99%	2,500.000 ug/ml	+/-0.59 %
5	1,2,3-Trimethylbenzene	526-73-8	97%	2,499.884 ug/ml	+/-0.59 %
6	1,2,4-Trimethylbenzene	95-63-6	98%	2,500.960 ug/ml	+/-0.59 %
7	1,3,5-Trimethylbenzene	108-67-8	99%	2,500.000 ug/ml	+/-0.59 %
8	1,3-Dichloropropane	142-28-9	99%	2,500.000 ug/ml	+/-0.59 %
9	2,2-Dichloropropane	594-20-7	99%	2,500.000 ug/ml	+/-0.59 %
10	2-Chlorotoluene	95-49-8	99%	2,500.000 ug/ml	+/-0.59 %
11	4-Chlorotoluene	106-43-4	99%	2,500.000 ug/ml	+/-0.59 %
12	4-Isopropyltoluene (p-Cymene)	99-87-6	99%	2,500.000 ug/ml	+/-0.59 %
13	Bromobenzene	108-86-1	99%	2,500.000 ug/ml	+/-0.59 %
14	Bromochloromethane	74-97-5	99%	2,500.000 ug/ml	+/-0.59 %
15	Dibromomethane	74-95-3	98%	2,499.784 ug/ml	+/-0.59 %
16	Diethyl ether (ethyl ether)	60-29-7	97%	2,499.884 ug/ml	+/-0.59 %
17	Diisopropyl ether (DIPE)	108-20-3	99%	2,500.000 ug/ml	+/-0.59 %
18	Hexachlorobutadiene	87-68-3	98%	2,499.784 ug/ml	+/-0.59 %
19	Iodomethane (methyl iodide)	74-88-4	94%	2,500.024 ug/ml	+/-0.59 %
20	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	125,000.000 ug/ml	+/-0.59 %
21	n-Butylbenzene	104-51-8	99%	2,500.000 ug/ml	+/-0.59 %
22	n-Propylbenzene	103-65-1	99%	2,500.000 ug/ml	+/-0.59 %
23	Naphthalene	91-20-3	99%	2,500.000 ug/ml	+/-0.59 %
24	sec-Butylbenzene	135-98-8	99%	2,500.000 ug/ml	+/-0.59 %
25	tert-Butanol (TBA)	75-65-0	99%	50,000.000 ug/ml	+/-0.59 %
26	tert-Butylbenzene	98-06-6	99%	2,500.000 ug/ml	+/-0.59 %
27	Tetrahydrofuran	109-99-9	97%	2,499.496 ug/ml	+/-0.59 %
28	trans-1,4-dichloro-2-butene	110-57-6	97%	5,000.156 ug/ml	+/-0.59 %
Solvent:	P&T Methanol	67-56-1	99%		

2/13/09
TS

Gravimetric Certificate

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No.: 556006 Lot No.: A065728
Description: Custom 2-CEVE Standard
Expiration Date [1]: August 2010 Storage: Freezer

Component #	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	Percent Uncertainty [4]
1	2-Chloroethyl vinyl ether	110-75-8	98%	2,500.960 ug/ml	+/-0.12 %
Solvent:	P&T Methanol	67-56-1	99%		

Michael J Mayer **Date Mixed:** 02/11/2009 **Balance:** 1128353505

Manufactured under Restek's ISO 9001-2000 Registered Quality System Certificate #FMB0397

1 Expiration date of the unopened ampule stored at recommended temperature.
2 Purity was determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to the nearest whole number. In addition to detectors listed above, chemical identity and purity are confirmed using one or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive index, and Karl Fisher. See data pack or contact Restek for further details.
3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels).
4 Percent uncertainty based upon balance AND ASTM Class A volumetric glassware accuracy.

Tech Tip:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

10/16/09
TS

Gravimetric Certificate

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No.: 556005 Lot No.: A070764
Description: Custom Volatiles Mix 2
Expiration Date[1]: April 2011 Storage: Freezer

Component #	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	[4]
1	1,1,1-trichloroethane	71-55-6	99%	2,500.000 ug/ml	+/-0.71 %
2	1,1,2,2-Tetrachloroethane	79-34-5	99%	2,500.000 ug/ml	+/-0.71 %
3	1,1,2-Trichloroethane	79-00-5	99%	2,500.000 ug/ml	+/-0.71 %
4	1,1,2-Trichlorotrifluoroethane	76-13-1	97%	2,497.750 ug/ml	+/-0.59 %
5	1,1-Dichloroethane	75-34-3	99%	2,500.000 ug/ml	+/-0.71 %
6	1,1-dichloroethene	75-35-4	99%	2,500.000 ug/ml	+/-0.71 %
7	1,2,4-Trichlorobenzene	120-82-1	97%	2,500.175 ug/ml	+/-0.59 %
8	1,2-Dibromo-3-chloropropane	96-12-8	99%	2,500.000 ug/ml	+/-0.59 %
9	1,2-Dibromoethane (EDB)	106-93-4	99%	2,500.000 ug/ml	+/-0.59 %
10	1,2-Dichlorobenzene	95-50-1	99%	2,500.000 ug/ml	+/-0.71 %
11	1,2-Dichloroethane	107-06-2	99%	2,500.000 ug/ml	+/-0.71 %
12	1,2-Dichloropropane	78-87-5	99%	2,500.000 ug/ml	+/-0.71 %
13	1,3-Dichlorobenzene	541-73-1	99%	2,500.000 ug/ml	+/-0.71 %
14	1,4-Dichlorobenzene	106-46-7	99%	2,500.000 ug/ml	+/-0.71 %
15	Benzene	71-43-2	99%	2,500.000 ug/ml	+/-0.59 %
16	bromodichloromethane	75-27-4	99%	2,500.000 ug/ml	+/-0.71 %
17	bromoform	75-25-2	99%	2,500.000 ug/ml	+/-0.71 %
18	Carbon disulfide	75-15-0	99%	2,500.000 ug/ml	+/-0.59 %
19	carbon tetrachloride	56-23-5	99%	2,500.000 ug/ml	+/-0.71 %
20	Chlorobenzene	108-90-7	99%	2,500.000 ug/ml	+/-0.71 %
21	chloroform	67-66-3	99%	2,500.000 ug/ml	+/-0.71 %
22	cis-1,2-Dichloroethene	156-59-2	99%	2,500.000 ug/ml	+/-0.59 %
23	cis-1,3-Dichloropropene	10061-01-5	99%	2,500.000 ug/ml	+/-0.71 %
24	Cyclohexane	110-82-7	99%	2,500.000 ug/ml	+/-0.59 %
25	dibromochloromethane	124-48-1	99%	2,500.000 ug/ml	+/-0.71 %
26	Ethylbenzene	100-41-4	99%	2,500.000 ug/ml	+/-0.59 %
27	Isopropylbenzene (cumene)	98-82-8	99%	2,500.000 ug/ml	+/-0.59 %
28	m-Xylene	108-38-3	99%	2,500.000 ug/ml	+/-0.59 %
29	Methyl acetate	79-20-9	99%	2,500.000 ug/ml	+/-0.59 %
30	Methyl-tert-butyl ether (MTBE)	1634-04-4	99%	2,500.000 ug/ml	+/-0.59 %
31	Methylcyclohexane	108-87-2	97%	2,500.175 ug/ml	+/-0.59 %
32	Methylene chloride (dichloromethane)	75-09-2	99%	2,500.000 ug/ml	+/-0.71 %
33	n-Hexane (C6)	110-54-3	99%	2,500.000 ug/ml	+/-0.59 %
34	o-Xylene	95-47-6	99%	2,500.000 ug/ml	+/-0.59 %
35	p-Xylene	106-42-3	99%	2,500.000 ug/ml	+/-0.59 %
36	Styrene	100-42-5	99%	2,500.000 ug/ml	+/-0.59 %
37	Tetrachloroethene	127-18-4	99%	2,500.000 ug/ml	+/-0.71 %
38	Toluene	108-88-3	99%	2,500.000 ug/ml	+/-0.59 %
39	trans-1,2-Dichloroethene	156-60-5	99%	2,500.000 ug/ml	+/-0.71 %
40	trans-1,3-Dichloropropene	10061-02-6	99%	2,500.000 ug/ml	+/-0.71 %
41	Trichloroethene	79-01-6	99%	2,500.000 ug/ml	+/-0.71 %

Received 10/15/09

Gravimetric Certificate

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Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No.: 563785 **Lot No.:** A070716
Description: Custom Revised Volatiles Mix 1
Expiration Date[1]**:** January 2010 **Storage:** Freezer

Component #	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	[4]
1	Acetonitrile	75-05-8	99%	7,500.000 ug/ml	+/-0.93 %
2	Acrolein	107-02-8	95%	7,500.250 ug/ml	+/-0.93 %
3	Acrylonitrile	107-13-1	99%	7,500.000 ug/ml	+/-0.93 %
Solvent:	P&T Methanol	67-56-1	99%		

F. Joseph Tallon - Mix Technician **Date Mixed:** 10/12/2009 **Balance:** 1121472889

Manufactured under Restek's ISO 9001-2000 Registered Quality System Certificate #FMB0397

1 Expiration date of the unopened ampule stored at recommended temperature.
2A Purity was determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to the nearest whole number. In addition to detectors listed above, chemical identity and purity are confirmed using one or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive index, and Karl Fisher. See data pack or contact Restek for further details.
2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.
2C Compounds with a listed purity of less than 99% may be salts, derivatives, or hydrates. The listed purity is actually a correction factor that was used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound.
2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.
3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels).
4 Uncertainties determined using repeatability and reproducibility data for balances and glassware from measurement systems analysis methodology, balance and glassware tolerances, raw material purity, and, where applicable, eccentricity and linearity values from an accredited calibration laboratory.

10/7/09
TS

Certificate of Analysis

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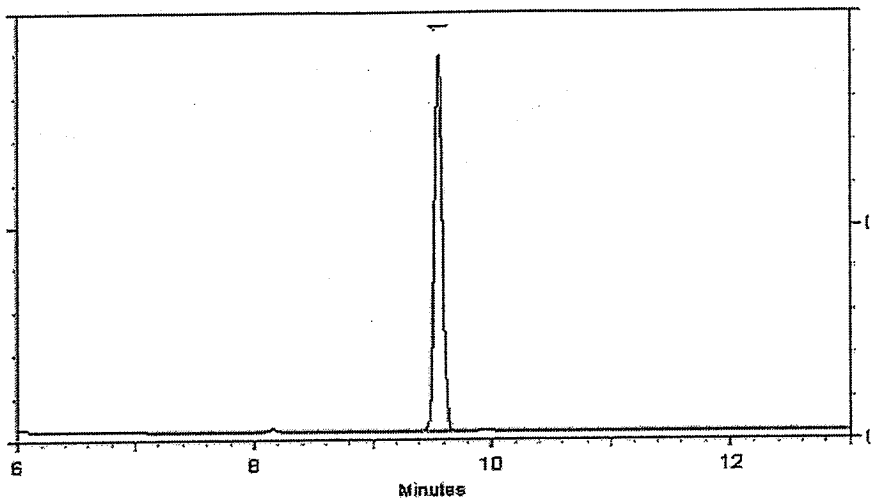
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 30216 Lot No.: A064655
Description : Vinyl Acetate Standard
Expiration Date[1]: November 2013 Storage: Freezer

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	Percent Uncertainty [4]
1	Vinyl acetate	108-05-4	98%	2,000.082 ug/ml	+/-0.03 %
Solvent:	P&T Methanol	67-56-1	99%		

Column: 105m x .53mm x 3.0um Rtx-502.2 (cat.#10910)
Carrier Gas: hydrogen @ 40 cm/sec.
Temp. Program: 40°C (hold 2 min.) to 200°C @ 8°C/min.
Inj. Temp: 200°C
Det. Temp: 250°C
Det. Type: FID



Balance: 1127510105

1 Expiration date of the unopened ampul stored at recommended temperature.
2 Purity was determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to the nearest LOWER whole percentage. In addtion to detectors listed above, chemical identity and purity are confirmed using 1 or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive index, and Karl Fisher. See data pack or contact Restek for further details.
3 Based upon gravimetric preperation with balance calibration verified using NIST traceable weights (seven mass levels).
4 Percent Uncertainty based upon balance AND ASTM Class A volumetric glassware accuracy.

Manufactured under Restek's ISO 9001:2000 Registered Quality System Certificate #FM80397

Tech Tip:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form r esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to n of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibrati solution immediately before use. This will minimize problems and ensure more consistent results.

Rec: 6/4/09

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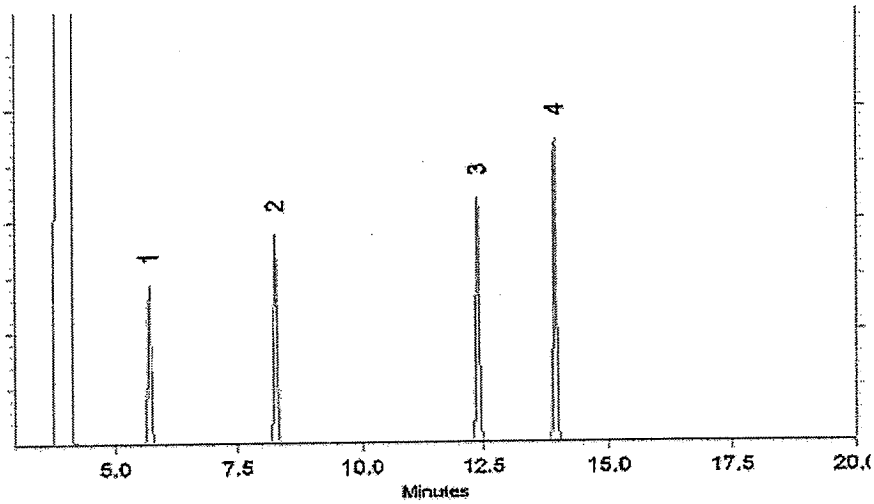
FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 30006 Lot No.: A062157
Description : VOA Calibration Mix #1
Expiration Date[1]: November 2011 Storage: Freezer

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	Percent Uncertainty [4]
1	Acetone	67-64-1	99%	5,000.000 ug/ml	+/-0.03 %
2	2-Butanone (MEK)	78-93-3	99%	5,000.000 ug/ml	+/-0.03 %
3	4-Methyl-2-pentanone (MIBK)	108-10-1	99%	5,000.000 ug/ml	+/-0.03 %
4	2-Hexanone	591-78-6	99%	5,000.000 ug/ml	+/-0.03 %
Solvent:	P&T Methanol/Water (90:10)	67-56-1/7732-18-5	99%		

Column: 105m x .32mm x 3.0um Rtx-502.2 (cat.#10910)
Carrier Gas: hydrogen @ 43 cc/min.
Temp. Program: 40°C (hold 2 min.) to 200°C @ 8°C/min.
Inj. Temp: 200°C
Det. Temp: 250°C
Det. Type: FID



Diane Shaffer
Diane Shaffer - QA Analyst

Balance 1125113331

1 Expiration date of the unopened ampul stored at recommended temperature.
2 Purity was determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to the nearest LOWER whole percentage. In addtion to detectors listed above, chemical identity and purity are confirmed using 1 or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, reftactive index, and Karl Fisher. See data pack or contact Restek for further details.
3 Based upon gravimetric preperation with balance calibration verified using NIST traceable weights (seven mass levels).
4 Percent Uncertainty based upon balance AND ASTM Class A volumetric glassware accuracy.

Manufactured under Restek's ISO 9001:2000 Registered Quality System Certificate #FM80397

Material Safety Data Sheet

Revision Date: 01/14/09

Restek Corporation
110 Benner Circle
Bellefonte, PA 16823-8812
(814) 353-1300
(800) 356-1688 **Fax: (814) 353-1309**

I. PRODUCT IDENTIFICATION

Catalog Number / Product Name:	**30006, 30006-5XX, & 30106 / VOA Calibration Mix #1**
Revision Number:	6
Intended use:	For Laboratory use only

II. HAZARD INDENTIFICATION

Emergency Overview:

Physical Hazards:	F - Highly flammable
Health Hazards:	T - Toxic

Routes of Entry:	Ingestion Contact Inhalation
Target Organs Potentially Affected By Exposure:	skin, eyes, CNS, GI tract, respiratory system
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

VII. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
water	7732-18-5	ND		No TLV	No PEL established
Acetone	67-64-1	ND	750 ppm STEL; 1782 mg/m3 STEL	No TLV	1000 ppm TWA; 2400 mg/m3 TWA
4-Methyl-2-pentanone	108-10-1	ND	75 ppm STEL; 307 mg/m3 STEL	No TLV	100 ppm TWA; 410 mg/m3 TWA
Methyl ethyl ketone	78-93-3	ND	300 ppm STEL; 885 mg/m3 STEL	No TLV	200 ppm TWA; 590 mg/m3 TWA
2-hexanone	591-78-6	ND	10 ppm STEL	No TLV	100 ppm TWA; 410 mg/m3 TWA

United Kingdom:

Chemical Name	CAS No.	EINEC No.	WEL-STEL	WEL-TWA
methanol	**67-56-1**	**200-659-6**	**250 ppm STEL; 333 mg/m3 STEL**	**200 ppm TWA; 266 mg/m3 TWA**
water	**7732-18-5**		**No data.**	**No data.**
Acetone	**67-64-1**	**200-662-2**	**No data.**	**No data.**
4-Methyl-2-pentanone	**108-10-1**	**203-550-1**	**No data.**	**No data.**
Methyl ethyl ketone	**78-93-3**	**201-159-0**	**No data.**	**No data.**
2-hexanone	**591-78-6**	**209-731-1**	**No data.**	**No data.**

France:

Chemical Name	CAS No.	EINEC No.	VLCTs-STEL	VME-TWA
methanol	67-56-1	200-659-6	1000 ppm VLCT; 1300 mg/m3 VLCT	**200 ppm VME (restrictive limit); 260 mg/m3 VME (restrictive limit)**
water	7732-18-5		No data.	**No data.**
Acetone	67-64-1	200-662-2	No data.	**No data.**
4-Methyl-2-pentanone	108-10-1	203-550-1	No data.	**No data.**
Methyl ethyl ketone	78-93-3	201-159-0	No data.	**No data.**
2-hexanone	591-78-6	209-731-1	No data.	**No data.**

Germany:

Chemical Name	CAS No.	EINEC No.	VELs
methanol	67-56-1	200-659-6	200 ppm TWA (exposure factor 4); 270 mg/m3 TWA (exposure factor 4)
water	7732-18-5		No data.
Acetone	67-64-1	200-662-2	500 ppm TWA (exposure factor 2); 1200 mg/m3 TWA (exposure factor 2)
4-Methyl-2-pentanone	108-10-1	203-550-1	20 ppm TWA (exposure factor 2); 83 mg/m3 TWA (exposure factor 2)
Methyl ethyl ketone	78-93-3	201-159-0	200 ppm TWA (exposure factor 1); 600 mg/m3 TWA (exposure factor 1)
2-hexanone	591-78-6	209-731-1	5 ppm TWA (exposure factor 8); 21 mg/m3 TWA (exposure factor 8)

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1
No data.		Group 2A
No data.		Group 2B

XII. ECOLOGICAL INFORMATION:

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	0

XIII. DISPOSAL CONSIDERATIONS:

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

XIV: TRANSPORTATION INFORMATION:

United States:	
DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Acetone)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Acetone)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II
Marine Pollutant:	Yes

XV. REGULATORY INFORMATION:

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
water	7732-18-5	-	-	-	X
Acetone	67-64-1	X	-	-	X
4-Methyl-2-pentanone	108-10-1	X	X	-	X
Methyl ethyl ketone	78-93-3	X	-	-	X
2-hexanone	591-78-6	-	-	-	X

The following chemicals are listed on CA Prop 65:

30006, 30006-5XX, & 30106 / VOA Calibration Mix #1

Rec: 10/27/09

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Custom Standard

Product CUS-8634 **Page:** 1 of 1
Lot Number: CF-4178 **Lot Issue** Oct-2009 **Expiration Date:** Feb-2010

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
acrylonitrile	000107-13-1	11512CH	5024 ± 25 µg/mL
acetonitrile	000075-05-8	47202	25124 ± 126 µg/mL
acrolein	000107-02-8	A008428101	25122 ± 126 µg/mL

Matrix: methanol (methyl alcohol)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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ISO 17025:2005 Accredited A2LA Cert. No. 0851.01

ISO 9001:2000 Registered TUV USA, Inc. Cert. No. 06-1004

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

See Reverse For Additional Information

William J. Leary
Quality Assurance Manager

Rec'd 10/27/09

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Analytical Solutions

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Custom Standard

Product CUS-5013 **Page:** 1 of 1
Lot Number: CF-4289 **Lot Issue** Oct-2009 **Expiration Date:** Feb-2010

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
vinyl acetate	000108-05-4	MS11517PR	2512 ± 13 µg/mL
methyl acetate	000079-20-9	16318HA	2508 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

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Certificate of Analysis

6/9/09 TS

2-Chloroethylvinyl Ether Solution

Product Number: EPA-1016 **Page:** 1 of 1
Lot Number: CE-1722 **Lot Issue Date:** May-2008 **Expiration Date:** Jun-2011

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001:2000 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2-chloroethylvinyl ether	000110-75-8	KS12708TN	5021 ± 25 µg/mL

Matrix: methanol (methyl alcohol)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

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9/30/09 TS

Method 8260 Surrogate Standard Mixture

Product Number: STM-530 **Page:** 1 of 1
Lot Number: CE-1901 **Lot Issue Date:** Jun-2008 **Expiration Date:** Jun-2011

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001:2000 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	20401KO	2512 ± 13 µg/mL
dibromofluoromethane	001868-53-7	90004843	2512 ± 13 µg/mL
1,2-dichloroethane-d4	017060-07-0	7K-242	2512 ± 13 µg/mL
toluene-d8	002037-26-5	7J-360B	2513 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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Quality Assurance Manager

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4/27/09
TS

Internal Standard Mixture

Product STM-520 **Page:** 1 of 1
Lot Number: CD-3947 **Lot Issue Date:** Dec-2007 **Expiration Date:** Dec-2010

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001:2000 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
chlorobenzene-d5	003114-55-4	PR15578/0625 4CB1	2510 ± 13 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	PR-12866/0620 1DB1	2506 ± 13 µg/mL
fluorobenzene	000462-06-6	04715MC	2505 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Balances used in the manufacture of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

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William J. Leary
Quality Assurance Manager

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Certificate of Analysis

11/23/09 TJ

Custom Standard

Product CUS-7814 **Page:** 1 of 3
Lot Number: CF-3973 **Lot Issue** Sep-2009 **Expiration Date:** Oct-2011

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
1,1,2-trichlorotrifluoroethane	000076-13-1	KN-09246KN	50.1 ± 0.3 µg/mL
methyl iodide	000074-88-4	KA-20329DA	50.2 ± 0.3 µg/mL
carbon disulfide	000075-15-0	AI12071LU	50.2 ± 0.3 µg/mL
methylene chloride	000075-09-2	46069	50.2 ± 0.3 µg/mL
tert-butanol	000075-65-0	CB-102267	1005 ± 5 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	50.2 ± 0.3 µg/mL
1,1-dichloroethane	000075-34-3	64552/1	50.2 ± 0.3 µg/mL
trans-1,2-dichloroethene	000156-60-5	DO-07817JR	50.2 ± 0.3 µg/mL
MTBE	001634-04-4	37289	50.2 ± 0.3 µg/mL
n-hexane	000110-54-3	9402254	50.1 ± 0.3 µg/mL
cis-1,2-dichloroethene	000156-59-2	05602PH	50.2 ± 0.3 µg/mL
tetrahydrofuran	000109-99-9	04928DN	50.2 ± 0.3 µg/mL
chloroform	000067-66-3	05143MN	50.2 ± 0.3 µg/mL
1,2-dichloroethane	000107-06-2	KN-09446KN	50.2 ± 0.3 µg/mL
dibromomethane	000074-95-3	EM-01514TJ	50.2 ± 0.3 µg/mL
1,4-dioxane	000123-91-1	05340DD	2512 ± 13 µg/mL
1,1,1-trichloroethane	000071-55-6	LU-13149TR	50.2 ± 0.3 µg/mL
carbon tetrachloride	000056-23-5	01704MF	50.2 ± 0.3 µg/mL
bromodichloromethane	000075-27-4	DU-14522LS	50.2 ± 0.3 µg/mL
1,2-dichloropropane	000078-87-5	DC-120777	50.2 ± 0.3 µg/mL
cis-1,3-dichloropropene	010061-01-5	PR-062508-01	50.2 ± 0.3 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

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Custom Standard

Product CUS-7814 **Page:** 2 of 3
Lot Number: CF-3973 **Lot Issue** Sep-2009 **Expiration Date:** Oct-2011

Analyte	CAS#	Analyte Lot	True Value
trichloroethene	000079-01-6	KN-08846KN	50.2 ± 0.3 µg/mL
dibromochloromethane	000124-48-1	CU-07705AN	50.2 ± 0.3 µg/mL
1,2-dibromoethane	000106-93-4	TB-101777	50.2 ± 0.3 µg/mL
1,2,3-trichloropropane	000096-18-4	12020TF	50.2 ± 0.3 µg/mL
1,1,2-trichloroethane	000079-00-5	JB-0701HH	50.2 ± 0.3 µg/mL
benzene	000071-43-2	34097	50.2 ± 0.3 µg/mL
ethyl methacrylate	000097-63-2	AO-09819AS	50.2 ± 0.3 µg/mL
trans-1,3-dichloropropene	010061-02-6	SR-101007-01	50.2 ± 0.3 µg/mL
bromoform	000075-25-2	12312KC	50.2 ± 0.3 µg/mL
tetrachloroethene	000127-18-4	PS-00344BR	50.2 ± 0.3 µg/mL
toluene	000108-88-3	45195	50.2 ± 0.3 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	10917TB	50.2 ± 0.3 µg/mL
chlorobenzene	000108-90-7	013148HZ	50.2 ± 0.3 µg/mL
ethylbenzene	000100-41-4	01558CC	50.2 ± 0.3 µg/mL
styrene	000100-42-5	LR-11228MQ	50.2 ± 0.3 µg/mL
trans-1,4-dichloro-2-butene	000110-57-6	16022DD	50.0 ± 0.3 µg/mL
m-xylene	000108-38-3	DI-00459CI	50.2 ± 0.3 µg/mL
p-xylene	000106-42-3	03747LN	50.2 ± 0.3 µg/mL
o-xylene	000095-47-6	DO-06834CO	50.2 ± 0.3 µg/mL
1,3-dichlorobenzene	000541-73-1	JN-05902LZ	50.2 ± 0.3 µg/mL
1,4-dichlorobenzene	000106-46-7	22628EB	50.2 ± 0.3 µg/mL
1,2-dichlorobenzene	000095-50-1	08946KY	50.2 ± 0.3 µg/mL
bromochloromethane	000074-97-5	JS-16015HS	50.2 ± 0.3 µg/mL
bromobenzene	000108-86-1	CG-02513MF	50.2 ± 0.3 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

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Product CUS-7814 **Page:** 3 of 3
Lot Number: CF-3973 **Lot Issue** Sep-2009 **Expiration Date:** Oct-2011

Analyte	CAS#	Analyte Lot	True Value
isopropylbenzene	000098-82-8	02827BH	50.2 ± 0.3 µg/mL
n-propylbenzene	000103-65-1	LO-14503MR	50.2 ± 0.3 µg/mL
n-butylbenzene	000104-51-8	PX-06929MX	50.2 ± 0.3 µg/mL
sec-butylbenzene	000135-98-8	07610JE	50.2 ± 0.3 µg/mL
tert-butylbenzene	000098-06-6	MQ-04010MQ	50.2 ± 0.3 µg/mL
1,2,4-trimethylbenzene	000095-63-6	BO-13528BI	50.2 ± 0.3 µg/mL
1,3,5-trimethylbenzene	000108-67-8	KM-02011HM	50.2 ± 0.3 µg/mL
1,2,3-trichlorobenzene	000087-61-6	12912PF	50.2 ± 0.3 µg/mL
1,2,4-trichlorobenzene	000120-82-1	00334TQ	50.2 ± 0.3 µg/mL
1,1-dichloropropene	000563-58-6	PR081507-01	50.2 ± 0.3 µg/mL
1,3-dichloropropane	000142-28-9	PR-17916MR	50.2 ± 0.3 µg/mL
2,2-dichloropropane	000594-20-7	BA-08422BA	50.2 ± 0.3 µg/mL
2-chlorotoluene	000095-49-8	10018BC	50.2 ± 0.3 µg/mL
4-chlorotoluene	000106-43-4	03327TH	50.2 ± 0.3 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104CP	50.2 ± 0.3 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	FBL-01	50.2 ± 0.3 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	50.1 ± 0.3 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	10312DD	50.2 ± 0.3 µg/mL
naphthalene	000091-20-3	14205KB	50.2 ± 0.3 µg/mL
methyl acetate	000079-20-9	16318HA	50.2 ± 0.3 µg/mL
methylcyclohexane	000108-87-2	00844CR	50.2 ± 0.3 µg/mL
cyclohexane	000110-82-7	44114	50.2 ± 0.3 µg/mL
1,3,5-trichlorobenzene	000108-70-3	HW-00718EV	50.1 ± 0.3 µg/mL

Matrix: methanol (methyl alcohol)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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Quality Assurance Manager

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Custom Standard

Product CUS-10798 **Page:** 1 of 3
Lot Number: CF-1914 **Lot Issue** Apr-2009 **Expiration Date:** May-2011

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
1,1,2-trichlorotrifluoroethane	000076-13-1	KN-09246KN	2508 ± 13 µg/mL
methyl iodide	000074-88-4	02412JD	2508 ± 13 µg/mL
carbon disulfide	000075-15-0	AI-12071LU	2508 ± 13 µg/mL
methylene chloride	000075-09-2	46069	2508 ± 13 µg/mL
tert-butanol	000075-65-0	CB-102267	50150 ± 251 µg/mL
1,1-dichloroethene	000075-35-4	01218EC	2508 ± 13 µg/mL
1,1-dichloroethane	000075-34-3	64552/1	2508 ± 13 µg/mL
trans-1,2-dichloroethene	000156-60-5	DO-07817JR	2508 ± 13 µg/mL
MTBE	001634-04-4	45123	2508 ± 13 µg/mL
n-hexane	000110-54-3	4120791	2508 ± 13 µg/mL
cis-1,2-dichloroethene	000156-59-2	05602PH	2508 ± 13 µg/mL
tetrahydrofuran	000109-99-9	04928DN	2508 ± 13 µg/mL
chloroform	000067-66-3	05413MN	2508 ± 13 µg/mL
1,2-dichloroethane	000107-06-2	KN-09446KN	2508 ± 13 µg/mL
dibromomethane	000074-95-3	EM-01514TJ	2508 ± 13 µg/mL
1,4-dioxane	000123-91-1	05340DD	125125 ± 626 µg/mL
1,1,1-trichloroethane	000071-55-6	LU-13149TR	2508 ± 13 µg/mL
carbon tetrachloride	000056-23-5	01704MF	2508 ± 13 µg/mL
bromodichloromethane	000075-27-4	DU-14522LS	2508 ± 13 µg/mL
1,2-dichloropropane	000078-87-5	DC-120777	2508 ± 13 µg/mL
cis-1,3-dichloropropene	010061-01-5	EB-1890	2508 ± 13 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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Quality Assurance Manager

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Product CUS-10798 **Page:** 2 of 3
Lot Number: CF-1914 **Lot Issue** Apr-2009 **Expiration Date:** May-2011

Analyte	CAS#	Analyte Lot	True Value
trichloroethene	000079-01-6	KN-08846KN	2508 ± 13 µg/mL
dibromochloromethane	000124-48-1	CU-07705AN	2508 ± 13 µg/mL
1,2-dibromoethane	000106-93-4	TB-101777	2508 ± 13 µg/mL
1,2,3-trichloropropane	000096-18-4	12020TF	2508 ± 13 µg/mL
1,1,2-trichloroethane	000079-00-5	JB-0701HH	2508 ± 13 µg/mL
benzene	000071-43-2	31072	2508 ± 13 µg/mL
ethyl methacrylate	000097-63-2	AO-09819AS	2508 ± 13 µg/mL
trans-1,3-dichloropropene	010061-02-6	SR101007-01	2508 ± 13 µg/mL
bromoform	000075-25-2	12312KC	2508 ± 13 µg/mL
tetrachloroethene	000127-18-4	PS-00344BR	2508 ± 13 µg/mL
toluene	000108-88-3	45195	2508 ± 13 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	10917TB	2508 ± 13 µg/mL
chlorobenzene	000108-90-7	03148HZ	2508 ± 13 µg/mL
ethylbenzene	000100-41-4	01558CC	2508 ± 13 µg/mL
styrene	000100-42-5	LR-11228MQ	2508 ± 13 µg/mL
trans-1,4-dichloro-2-butene	000110-57-6	06026JE	2508 ± 13 µg/mL
m-xylene	000108-38-3	DI-00459CI	2508 ± 13 µg/mL
p-xylene	000106-42-3	03747LN	2508 ± 13 µg/mL
o-xylene	000095-47-6	DO-06834CO	2508 ± 13 µg/mL
1,3-dichlorobenzene	000541-73-1	JN-05902LZ	2508 ± 13 µg/mL
1,4-dichlorobenzene	000106-46-7	22628EB	2508 ± 13 µg/mL
1,2-dichlorobenzene	000095-50-1	08946KY	2508 ± 13 µg/mL
bromochloromethane	000074-97-5	JS-16015HS	2508 ± 13 µg/mL
bromobenzene	000108-86-1	CG-02513MF	2508 ± 13 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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Quality Assurance Manager

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Custom Standard

Product CUS-10798 **Page:** 3 of 3
Lot Number: CF-1914 **Lot Issue** Apr-2009 **Expiration Date:** May-2011

Analyte	CAS#	Analyte Lot	True Value
isopropylbenzene	000098-82-8	02827BH	2508 ± 13 µg/mL
n-propylbenzene	000103-65-1	AR-01	2508 ± 13 µg/mL
n-butylbenzene	000104-51-8	PX-06929MX	2508 ± 13 µg/mL
sec-butylbenzene	000135-98-8	07610JE	2508 ± 13 µg/mL
tert-butylbenzene	000098-06-6	MQ-04010MQ	2508 ± 13 µg/mL
1,2,4-trimethylbenzene	000095-63-6	BO-13528BI	2508 ± 13 µg/mL
1,3,5-trimethylbenzene	000108-67-8	KM-02011HM	2508 ± 13 µg/mL
1,2,3-trichlorobenzene	000087-61-6	12912PF	2508 ± 13 µg/mL
1,2,4-trichlorobenzene	000120-82-1	00334TQ	2508 ± 13 µg/mL
1,1-dichloropropene	000563-58-6	PR-081507-01	2508 ± 13 µg/mL
1,3-dichloropropane	000142-28-9	PR-17916MR	2508 ± 13 µg/mL
2,2-dichloropropane	000594-20-7	BA-08422BA	2508 ± 13 µg/mL
2-chlorotoluene	000095-49-8	10018BC	2508 ± 13 µg/mL
4-chlorotoluene	000106-43-4	CR-14512LQ	2508 ± 13 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104CP	2508 ± 13 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	FBL-01	2508 ± 13 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	2506 ± 13 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	10312DD	2508 ± 13 µg/mL
naphthalene	000091-20-3	14205KB	2508 ± 13 µg/mL
methyl acetate	000079-20-9	16318HA	2508 ± 13 µg/mL
methylcyclohexane	000108-87-2	DR-00844CR	2508 ± 13 µg/mL
cyclohexane	000110-82-7	44114	2508 ± 13 µg/mL
1,3,5-trichlorobenzene	000108-70-3	HW-00718EV	2508 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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Quality Assurance Manager

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10/9/09 TS

VOC Gas Mixture

Product DWM-544 **Page:** 1 of 1
Lot Number: CF-2961 **Lot Issue** Jul-2009 **Expiration Date:** Aug-2012

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
bromomethane	000074-83-9	06623AQ	2008 ± 10 µg/mL
chloroethane	000075-00-3	00223KG	2009 ± 10 µg/mL
chloromethane	000074-87-3	07-44048	2009 ± 10 µg/mL
dichlorodifluoromethane	000075-71-8	N9600453	2008 ± 10 µg/mL
trichlorofluoromethane	000075-69-4	DR-16417BR	2006 ± 10 µg/mL
vinyl chloride	000075-01-4	387622	2008 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

Lot/SDG Number: **A0B180429**

Sample Control Chain of Custody - TAL North Canton
GC/MS Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0B180429	5	LVTQ41AC	Volatile Organics, GC/MS (8260B)	02/26/10	Steve Macenczak
A0B180429	13	LVTT71AC	Volatile Organics, GC/MS (8260B)	02/25/10	Steve Macenczak

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMS SEMIVOLATILE DATA

TestAmerica
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QC SUMMARY DATA

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Cor

Lab Code: TALCAN SDG No:

Lot #: A0B180429

Extraction: XXA11QLWA

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	B12SS-036M-5038-SO	54	60	59	55	46	62	00
02	B12SS-037M-5039-SO	57	62	61	66	47	70	00
03	B12SS-037M-6049-FD	56	63	60	64	48	70	00
04	B12SS-038M-5040-SO	56	66	64	60	51	70	00
05	ATASS-015M-5036-SO	61	71	64	65	54	74	00
06	INTRA-LAB QC	57	61	60	62	53	80	00
07	METHOD BLK. LV0FP1AA	66	72	71	52	61	89	00
08	LCS LV0FP1AC	63	68	66	59	63	83	00
09	B12SS-036M-5038-SO D	53	57	57	57	47	66	00
10	LAB MS/MSD D	64	61	63	62	59	82	00
11	B12SS-036M-5038-SO S	43 *	46	45	45	37	52	01
12	LAB MS/MSD S	66	64	65	60	60	82	00

SURROGATES		QC LIMITS
SRG01	= 2-Fluorobiphenyl	(45-105)
SRG02	= 2-Fluorophenol	(35-105)
SRG03	= Phenol-d5	(40-100)
SRG04	= 2,4,6-Tribromophenol	(35-125)
SRG05	= Nitrobenzene-d5	(35-100)
SRG06	= Terphenyl-d14	(30-125)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B230000 WO #: LV0FP1AC
BATCH: 0054027

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Acenaphthene	670	440	66	45- 110	
4-Chloro-3-methylphenol	670	470	71	45- 115	
2-Chlorophenol	670	440	66	45- 105	
1,4-Dichlorobenzene	670	430	64	35- 105	
2,4-Dinitrotoluene	670	480	72	50- 115	
4-Nitrophenol	670	500	75	15- 140	
N-Nitrosodi-n-propylamine	670	440	66	40- 115	
Pentachlorophenol	670	370	56	25- 120	
Phenol	670	460	69	40- 100	
Pyrene	670	500	75	45- 125	
1,2,4-Trichlorobenzene	670	410	61	45- 110	
bis(2-Ethylhexyl) phthala	670	490	74	45- 125	
Acenaphthylene	670	460	69	45- 105	
Anthracene	670	500	74	55- 105	
Benzo(a)anthracene	670	480	72	50- 110	
Benzo(b)fluoranthene	670	510	77	45- 115	
Benzo(k)fluoranthene	670	490	73	45- 125	
Benzo(ghi)perylene	670	510	76	40- 125	
Benzo(a)pyrene	670	430	64	50- 110	
bis(2-Chloroethoxy)methan	670	440	66	45- 110	
bis(2-Chloroethyl) ether	670	420	63	40- 105	
4-Bromophenyl phenyl ethe	670	500	75	45- 115	
Butyl benzyl phthalate	670	500	75	50- 125	
Carbazole	670	500	75	45- 115	
4-Chloroaniline	670	370	55	10- 95	
2-Chloronaphthalene	670	450	67	45- 105	
4-Chlorophenyl phenyl eth	670	460	69	45- 110	
Chrysene	670	480	72	55- 110	
Dibenzo(a,h)anthracene	670	500	75	40- 125	
Dibenzofuran	670	460	68	50- 105	
Di-n-butyl phthalate	670	550	83	55- 110	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B230000 WO #: LV0FP1AC
BATCH: 0054027

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,2-Dichlorobenzene	670	420	63	45 - 95	
1,3-Dichlorobenzene	670	400	60	40 - 100	
3,3'-Dichlorobenzidine	670	300	45	10 - 130	
2,4-Dichlorophenol	670	480	72	45 - 110	
Diethyl phthalate	670	470	71	50 - 115	
2,4-Dimethylphenol	670	420	63	30 - 105	
Dimethyl phthalate	670	470	70	50 - 110	
4,6-Dinitro-2-methylpheno	670	420	64	30 - 135	
2,4-Dinitrophenol	670	370	55	15 - 130	
2,6-Dinitrotoluene	670	480	72	50 - 110	
Di-n-octyl phthalate	670	500	75	40 - 130	
Fluoranthene	670	530	79	55 - 115	
Fluorene	670	450	68	50 - 110	
Hexachlorobenzene	670	500	75	45 - 120	
Hexachlorobutadiene	670	420	63	40 - 115	
Hexachlorocyclopentadiene	670	480	71	26 - 105	
Hexachloroethane	670	400	61	35 - 110	
Indeno(1,2,3-cd)pyrene	670	500	75	40 - 120	
Isophorone	670	440	66	45 - 110	
2-Methylnaphthalene	670	530	80	45 - 105	
2-Methylphenol	670	450	68	40 - 105	
Naphthalene	670	440	66	40 - 105	
2-Nitroaniline	670	470	70	45 - 120	
3-Nitroaniline	670	390	58	25 - 110	
4-Nitroaniline	670	510	77	35 - 115	
Nitrobenzene	670	440	66	40 - 115	
2-Nitrophenol	670	440	66	40 - 110	
N-Nitrosodiphenylamine	670	480	71	50 - 115	
bis(2-Chloroisopropyl) et	670	440	65	20 - 115	
Phenanthrene	670	490	74	50 - 110	
2,4,5-Trichlorophenol	670	430	65	50 - 110	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B230000 WO #: LV0FP1AC
BATCH: 0054027

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
2,4,6-Trichlorophenol	670	440	66	45- 110	
Benzoic acid	670	0.0	0	0- 110	
Benzyl alcohol	670	440	65	20- 125	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: B12SS-036M-5038-SO

Lot #: A0B180429 WO #: LVTQQ1A7
BATCH: 0054027

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Acenaphthene	680	ND	300	44*	45 - 110	a
Pyrene	680	27	350	48	45 - 125	
Acenaphthylene	680	ND	320	47	45 - 105	
Anthracene	680	ND	330	49*	55 - 105	a
Benzo(a)anthracene	680	26	350	48*	50 - 110	a
Benzo(b)fluoranthene	680	51	400	52	45 - 115	
Benzo(k)fluoranthene	680	16	330	47	45 - 125	
Benzo(ghi)perylene	680	20	360	51	40 - 125	
Benzo(a)pyrene	680	27	300	41*	50 - 110	a
Chrysene	680	31	360	48*	55 - 110	a
Dibenzo(a,h)anthracene	680	ND	360	54	40 - 125	
Fluoranthene	680	33	410	55	55 - 115	
Fluorene	680	ND	310	46*	50 - 110	a
Indeno(1,2,3-cd)pyrene	680	19	360	50	40 - 120	
Naphthalene	680	26	320	43	40 - 105	
Phenanthrene	680	11	340	48*	50 - 110	a

NOTES(S):

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 7 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: B12SS-036M-5038-SO

Lot #: A0B180429 WO #: LVTQQ1A8
BATCH: 0054027

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Acenaphthene	680	380	56	24		44	45 - 110	
Pyrene	680	450	63	24		66	45 - 125	
Acenaphthylene	680	410	60	24		41	45 - 105	
Anthracene	680	430	64	27	*	22	55 - 105	p
Benzo(a)anthracene	680	440	61	23		23	50 - 110	
Benzo(b)fluoranthene	680	520	69	26		28	45 - 115	
Benzo(k)fluoranthene	680	420	60	24		31	45 - 125	
Benzo(ghi)perylene	680	460	66	25		50	40 - 125	
Benzo(a)pyrene	680	390	54	26		31	50 - 110	
Chrysene	680	460	63	24		31	55 - 110	
Dibenzo(a,h)anthracene	680	470	69	25		55	40 - 125	
Fluoranthene	680	520	72	24	*	23	55 - 115	p
Fluorene	680	400	59	24		29	50 - 110	
Indeno(1,2,3-cd)pyrene	680	460	66	25		37	40 - 120	
Naphthalene	680	400	56	24		25	40 - 105	
Phenanthrene	680	440	63	27	*	20	50 - 110	p

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 3 out of 16 outside limits
Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: A0B190524 WO #: LVWW51AD
BATCH: 0054027

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Acenaphthene	1100	ND	700	66	45 - 110	
4-Chloro-3-methylphenol	1100	ND	780	73	45 - 115	
2-Chlorophenol	1100	ND	660	62	45 - 105	
1,4-Dichlorobenzene	1100	ND	590	55	35 - 105	
2,4-Dinitrotoluene	1100	ND	740	69	50 - 115	
4-Nitrophenol	1100	ND	990	93	15 - 140	
N-Nitrosodi-n-propylamine	1100	ND	660	62	40 - 115	
Pentachlorophenol	1100	ND	670	62	25 - 120	
Phenol	1100	ND	710	66	40 - 100	
Pyrene	1100	14	790	72	45 - 125	
1,2,4-Trichlorobenzene	1100	ND	610	57	45 - 110	
bis(2-Ethylhexyl) phthala	1100	ND	790	74	45 - 125	
Acenaphthylene	1100	ND	740	69	45 - 105	
Anthracene	1100	ND	790	73	55 - 105	
Benzo(a)anthracene	1100	ND	750	70	50 - 110	
Benzo(b)fluoranthene	1100	13	790	73	45 - 115	
Benzo(k)fluoranthene	1100	ND	820	77	45 - 125	
Benzo(ghi)perylene	1100	ND	820	77	40 - 125	
Benzo(a)pyrene	1100	ND	690	64	50 - 110	
bis(2-Chloroethoxy)methan	1100	ND	680	63	45 - 110	
bis(2-Chloroethyl) ether	1100	ND	620	58	40 - 105	
4-Bromophenyl phenyl ethe	1100	ND	780	73	45 - 115	
Butyl benzyl phthalate	1100	ND	790	74	50 - 125	
Carbazole	1100	ND	770	72	45 - 115	
4-Chloroaniline	1100	ND	350	33	10 - 95	
2-Chloronaphthalene	1100	ND	720	67	45 - 105	
4-Chlorophenyl phenyl eth	1100	ND	750	70	45 - 110	
Chrysene	1100	ND	770	72	55 - 110	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: A0B190524 WO #: LVWW51AD
BATCH: 0054027

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Dibenzo(a,h)anthracene	1100	ND	810	76	40 - 125	
Dibenzofuran	1100	ND	780	72	50 - 105	
Di-n-butyl phthalate	1100	ND	860	80	55 - 110	
1,2-Dichlorobenzene	1100	ND	610	57	45 - 95	
1,3-Dichlorobenzene	1100	ND	580	54	40 - 100	
3,3'-Dichlorobenzidine	1100	ND	0.0	0*	10 - 130	a
2,4-Dichlorophenol	1100	ND	810	75	45 - 110	
Diethyl phthalate	1100	ND	740	69	50 - 115	
2,4-Dimethylphenol	1100	ND	760	71	30 - 105	
Dimethyl phthalate	1100	ND	750	70	50 - 110	
4,6-Dinitro-2-methylpheno	1100	ND	690	65	30 - 135	
2,4-Dinitrophenol	1100	ND	700	66	15 - 130	
2,6-Dinitrotoluene	1100	ND	770	72	50 - 110	
Di-n-octyl phthalate	1100	ND	810	76	40 - 130	
Fluoranthene	1100	18	840	77	55 - 115	
Fluorene	1100	ND	730	68	50 - 110	
Hexachlorobenzene	1100	ND	760	71	45 - 120	
Hexachlorobutadiene	1100	ND	620	58	40 - 115	
Hexachlorocyclopentadiene	1100	ND	0.0	0*	26 - 105	a
Hexachloroethane	1100	ND	580	54	35 - 110	
Indeno(1,2,3-cd)pyrene	1100	ND	810	75	40 - 120	
Isophorone	1100	ND	670	63	45 - 110	
2-Methylnaphthalene	1100	ND	840	78	45 - 105	
2-Methylphenol	1100	ND	730	68	40 - 105	
Naphthalene	1100	ND	670	62	40 - 105	
2-Nitroaniline	1100	ND	840	78	45 - 120	
3-Nitroaniline	1100	ND	230	21*	25 - 110	a
4-Nitroaniline	1100	ND	280	26*	35 - 115	a

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0B190524 WO #: LVWW51AD
BATCH: 0054027

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Nitrobenzene	1100	ND	660	62	40- 115	
2-Nitrophenol	1100	ND	700	65	40- 110	
N-Nitrosodiphenylamine	1100	ND	760	71	50- 115	
bis(2-Chloroisopropyl) et	1100	ND	630	59	20- 115	
Phenanthrene	1100	ND	790	74	50- 110	
2,4,5-Trichlorophenol	1100	ND	720	67	50- 110	
2,4,6-Trichlorophenol	1100	ND	730	68	45- 110	
Benzoic acid	1100	ND	970	64	0- 110	
Benzyl alcohol	1100	ND	730	66	20- 125	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 4 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0B190524 WO #: LVWW51AE
BATCH: 0054027

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Acenaphthene	1100	690	65	1.2		44	45- 110	
4-Chloro-3-methylphenol	1100	770	72	0.93		55	45- 115	
2-Chlorophenol	1100	640	60	3.0		54	45- 105	
1,4-Dichlorobenzene	1100	580	54	2.7		59	35- 105	
2,4-Dinitrotoluene	1100	750	70	1.2		45	50- 115	
4-Nitrophenol	1100	990	92	0.27		64	15- 140	
N-Nitrosodi-n-propylamine	1100	630	59	4.8		50	40- 115	
Pentachlorophenol	1100	670	63	0.58		87	25- 120	
Phenol	1100	680	64	3.7		50	40- 100	
Pyrene	1100	790	73	0.97		66	45- 125	
1,2,4-Trichlorobenzene	1100	620	58	0.85		54	45- 110	
bis(2-Ethylhexyl) phthala	1100	780	73	0.96		31	45- 125	
Acenaphthylene	1100	740	69	0.040		41	45- 105	
Anthracene	1100	760	71	2.6		22	55- 105	
Benzo(a)anthracene	1100	730	68	3.3		23	50- 110	
Benzo(b)fluoranthene	1100	780	72	1.3		28	45- 115	
Benzo(k)fluoranthene	1100	770	72	6.5		31	45- 125	
Benzo(ghi)perylene	1100	810	75	1.6		50	40- 125	
Benzo(a)pyrene	1100	670	63	2.6		31	50- 110	
bis(2-Chloroethoxy)methan	1100	660	61	3.3		35	45- 110	
bis(2-Chloroethyl) ether	1100	600	56	3.5		33	40- 105	
4-Bromophenyl phenyl ethe	1100	770	71	2.2		20	45- 115	
Butyl benzyl phthalate	1100	780	73	1.1		35	50- 125	
Carbazole	1100	760	71	1.8		20	45- 115	
4-Chloroaniline	1100	150	14	80	*	28	10- 95	p
2-Chloronaphthalene	1100	700	66	1.8		28	45- 105	
4-Chlorophenyl phenyl eth	1100	740	69	0.76		29	45- 110	
Chrysene	1100	760	71	1.9		31	55- 110	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0B190524 WO #: LVWW51AE
BATCH: 0054027

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Dibenzo(a,h)anthracene	1100	810	75	0.60	55	40- 125	
Dibenzofuran	1100	770	72	0.82	27	50- 105	
Di-n-butyl phthalate	1100	850	79	1.0	24	55- 110	
1,2-Dichlorobenzene	1100	580	54	5.9	25	45- 95	
1,3-Dichlorobenzene	1100	550	51	4.7	46	40- 100	
3,3'-Dichlorobenzidine	1100	0.0	0*	0.0	56	10- 130	a
2,4-Dichlorophenol	1100	800	74	1.2	27	45- 110	
Diethyl phthalate	1100	740	69	0.53	29	50- 115	
2,4-Dimethylphenol	1100	740	69	2.6	26	30- 105	
Dimethyl phthalate	1100	740	69	1.8	30	50- 110	
4,6-Dinitro-2-methylpheno	1100	690	64	0.57	39	30- 135	
2,4-Dinitrophenol	1100	730	68	4.4	56	15- 130	
2,6-Dinitrotoluene	1100	760	71	1.5	39	50- 110	
Di-n-octyl phthalate	1100	780	73	4.1	29	40- 130	
Fluoranthene	1100	830	76	0.77	23	55- 115	
Fluorene	1100	720	67	1.4	29	50- 110	
Hexachlorobenzene	1100	750	70	1.8	29	45- 120	
Hexachlorobutadiene	1100	610	57	0.45	25	40- 115	
Hexachlorocyclopentadiene	1100	0.0	0*	0.0	33	26- 105	a
Hexachloroethane	1100	540	51	6.0	29	35- 110	
Indeno(1,2,3-cd)pyrene	1100	800	74	1.2	37	40- 120	
Isophorone	1100	660	61	2.1	30	45- 110	
2-Methylnaphthalene	1100	820	76	2.9	27	45- 105	
2-Methylphenol	1100	680	63	8.0	29	40- 105	
Naphthalene	1100	640	60	3.8	25	40- 105	
2-Nitroaniline	1100	820	77	1.8	39	45- 120	
3-Nitroaniline	1100	220	20*	4.6	45	25- 110	a
4-Nitroaniline	1100	230	22*	20	44	35- 115	a

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0B190524 WO #: LVWW51AE
BATCH: 0054027

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Nitrobenzene	1100	650	60	2.0	29	40- 115	
2-Nitrophenol	1100	670	62	3.7	30	40- 110	
N-Nitrosodiphenylamine	1100	740	69	3.3	68	50- 115	
bis(2-Chloroisopropyl) et	1100	590	55	6.5	50	20- 115	
Phenanthrene	1100	770	72	3.2	20	50- 110	
2,4,5-Trichlorophenol	1100	760	71	5.7	30	50- 110	
2,4,6-Trichlorophenol	1100	740	69	1.8	29	45- 110	
Benzoic acid	1100	1100	72	8.3	20	0- 110	
Benzyl alcohol	1100	690	62	5.2	20	20- 125	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 65 outside limits
Spike Recovery: 4 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV0FP1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: LV0FP1AA.

Lot Number: A0B180429

Date Analyzed: 03/02/10

Time Analyzed: 10:37

Matrix: SOLID

Date Extracted:02/23/10

GC Column: DB-5.625 ID: .32

Extraction Method: 3540C

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	B12SS-036M-5038-SO	LVTQQ1A5	LVTQQ1A5.	03/02/10	15:22
02	B12SS-036M-5038-SO	LVTQQ1A7 S	LVTQQ1A7.	03/02/10	15:41
03	B12SS-036M-5038-SO	LVTQQ1A8 D	LVTQQ1A8.	03/02/10	16:00
04	B12SS-037M-5039-SO	LVTQ11AG	LVTQ11AG.	03/02/10	16:19
05	B12SS-037M-6049-FD	LVTQ21AG	LVTQ21AG.	03/02/10	16:38
06	B12SS-038M-5040-SO	LVTQ31A7	LVTQ31A7.	03/02/10	13:47
07	ATASS-015M-5036-SO	LVTT01AC	LVTT01AC.	03/02/10	14:06
08	INTRA-LAB QC	LVWW51AC	LVWW51AC.	03/02/10	11:15
09	LAB MS/MSD	LVWW51AD S	LVWW51AD.	03/02/10	11:34
10	LAB MS/MSD	LVWW51AE D	LVWW51AE.	03/02/10	11:53
11	CHECK SAMPLE	LV0FP1AC C	LV0FP1AC.	03/02/10	10:56
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COMMENTS:

FORM IV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B180429

Lab File ID: 7DF0301 DFTPP Injection Date: 03/01/10

Instrument ID: A4HP7 DFTPP Injection Time: 1504

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	43.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	41.2
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	25.0 - 75.0% of mass 198	51.8
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	25.2
365	Greater than 0.75% of mass 198	2.58
441	Present, but less than mass 443	9.7
442	40.0 - 110.0% of mass 198	67.1
443	15.0 - 24.0% of mass 442	13.0 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005	L5	7SMM0301	03/01/10	1523
02	SSTD004	L4	7SM0301	03/01/10	1543
03	SSTD003	L3	7SML0301	03/01/10	1602
04	SSTD002	L2	7SL0301	03/01/10	1622
05	SSTD001	L1	7SLL0301	03/01/10	1641
06	SSTD009	L9	7SHHH0301	03/01/10	1701
07	SSTD008	L8	7SHH0301	03/01/10	1720
08	SSTD007	L7	7SH0301	03/01/10	1740
09	SSTD006	L6	7SMH0301	03/01/10	1759
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B180429

Lab File ID: 7DF0302 DFTPP Injection Date: 03/02/10

Instrument ID: A4HP7 DFTPP Injection Time: 0917

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	46.4
68	Less than 2.0% of mass 69	0.8 (1.9)1
69	Mass 69 relative abundance	42.7
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	25.0 - 75.0% of mass 198	53.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	24.7
365	Greater than 0.75% of mass 198	2.31
441	Present, but less than mass 443	8.1
442	40.0 - 110.0% of mass 198	56.9
443	15.0 - 24.0% of mass 442	10.8 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD006	L6	7SMH0302	03/02/10	0936
02	LV0FPBLK	LV0FP1AA	LV0FP1AA	03/02/10	1037
03	LV0FPCHK	LV0FP1AC	LV0FP1AC	03/02/10	1056
04	B12SS-038M-5	LVTQ31A7	LVTQ31A7	03/02/10	1347
05	ATASS-015M-5	LVTT01AC	LVTT01AC	03/02/10	1406
06	B12SS-036M-5	LVTQQ1A5	LVTQQ1A5	03/02/10	1522
07	B12SS-036M-5	LVTQQ1A7	LVTQQ1A7	03/02/10	1541
08	B12SS-036M-5	LVTQQ1A8	LVTQQ1A8	03/02/10	1600
09	B12SS-037M-5	LVTQ11AG	LVTQ11AG	03/02/10	1619
10	B12SS-037M-6	LVTQ21AG	LVTQ21AG	03/02/10	1638
11					
12					
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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B180429

Lab File ID (Standard): 7SMH0302 Date Analyzed: 03/02/10

Instrument ID: A4HP7 Time Analyzed: 0936

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	314430		3.47		1302947		4.36		667302		5.63	
	UPPER LIMIT	628860		3.97		2605894		4.86		1334604		6.13	
	LOWER LIMIT	157215		2.97		651474		3.86		333651		5.13	
	EPA SAMPLE NO.												
01	LV0FPBLK	345994		3.46		1459296		4.36		750948		5.63	
02	LV0FPCHK	352855		3.46		1493853		4.36		785574		5.63	
03	B12SS-038M-5	250160		3.48		1138294		4.36		675823		5.63	
04	ATASS-015M-5	233550		3.50		997189		4.37		565293		5.63	
05	B12SS-036M-5	259150		3.48		1179029		4.37		676105		5.63	
06	B12SS-036M-5	283705		3.48		1231532		4.37		697546		5.63	
07	B12SS-036M-5	252759		3.48		1115833		4.37		652504		5.63	
08	B12SS-037M-5	261047		3.49		1127844		4.37		660355		5.63	
09	B12SS-037M-6	190632		3.49		849205		4.37		521685		5.64	
10													
11													
12													
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B180429

Lab File ID (Standard): 7SMH0302 Date Analyzed: 03/02/10

Instrument ID: A4HP7 Time Analyzed: 0936

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1052286		6.71		1252372		8.66		1122003		10.03	
	UPPER LIMIT	2104572		7.21		2504744		9.16		2244006		10.53	
	LOWER LIMIT	526143		6.21		626186		8.16		561002		9.53	
	EPA SAMPLE NO.												
01	LV0FPBLK	1150725		6.71		1293874		8.66		1153399		10.02	
02	LV0FPCHK	1213292		6.71		1451578		8.66		1315044		10.03	
03	B12SS-038M-5	1109840		6.71		1439695		8.66		1359965		10.04	
04	ATASS-015M-5	909397		6.71		1141653		8.66		1080777		10.04	
05	B12SS-036M-5	1092856		6.72		1390793		8.66		1297365		10.04	
06	B12SS-036M-5	1143037		6.72		1459548		8.67		1395022		10.05	
07	B12SS-036M-5	1046527		6.72		1351284		8.67		1288590		10.05	
08	B12SS-037M-5	1116513		6.72		1489341		8.67		1414538		10.06	
09	B12SS-037M-6	882783		6.72		1178224		8.67		1114821		10.05	
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: B12SS-036M-5038-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B180429-001 **Work Order #...:** LVTQQ1A5 **Matrix.....:** SO
Date Sampled...: 02/16/10 10:30 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0054027
Dilution Factor: 1 **Initial Wgt/Vol:** 30.14 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 1.9 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	6.8	ug/kg	3.4
Acenaphthylene	ND	6.8	ug/kg	3.4
Anthracene	ND	6.8	ug/kg	3.4
Benzo(a)anthracene	**26**	**6.8**	**ug/kg**	**3.4**
Benzo(b)fluoranthene	**51**	**6.8**	**ug/kg**	**3.4**
Benzo(k)fluoranthene	**16**	**6.8**	**ug/kg**	**3.4**
Benzo(ghi)perylene	**20**	**6.8**	**ug/kg**	**3.4**
Benzo(a)pyrene	**27**	**6.8**	**ug/kg**	**3.4**
Chrysene	**31**	**6.8**	**ug/kg**	**1.1**
Dibenzo(a,h)anthracene	ND	6.8	ug/kg	3.4
Fluoranthene	**33**	**6.8**	**ug/kg**	**3.4**
Fluorene	ND	6.8	ug/kg	3.4
Indeno(1,2,3-cd)pyrene	**19**	**6.8**	**ug/kg**	**3.4**
Naphthalene	**26**	**6.8**	**ug/kg**	**3.4**
Phenanthrene	**11**	**6.8**	**ug/kg**	**3.4**
Pyrene	**27**	**6.8**	**ug/kg**	**3.4**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	54	(45 - 105)
2-Fluorophenol	60	(35 - 105)
Phenol-d5	59	(40 - 100)
2,4,6-Tribromophenol	55	(35 - 125)
Nitrobenzene-d5	46	(35 - 100)
Terphenyl-d14	62	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LVTQQ1A5.D
Lab Smp Id: lvtqq1a5 Client Smp ID: B12SS-036M-5038-SO
Inj Date : 02-MAR-2010 15:22
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lvtqq1a5,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 04-Mar-2010 10:09 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.140	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.480	3.470	(1.000)	259150	2.00000		(Q)
* 2 Naphthalene-d8	136	4.368	4.358	(1.000)	1179029	2.00000		
* 3 Acenaphthene-d10	164	5.631	5.625	(1.000)	676105	2.00000		
* 4 Phenanthrene-d10	188	6.716	6.711	(1.000)	1092856	2.00000		
* 5 Chrysene-d12	240	8.663	8.663	(1.000)	1390793	2.00000		
* 6 Perylene-d12	264	10.038	10.027	(1.000)	1297365	2.00000		
9 Pyridine	79	Compound Not Detected.						
10 N-Nitrosodimethylamine	74	Compound Not Detected.						
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	Compound Not Detected.						
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	Compound Not Detected.						
21 Aniline	93	Compound Not Detected.						
22 Phenol	94	Compound Not Detected.						
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	Compound Not Detected.						
26 1,3-Dichlorobenzene	146	Compound Not Detected.						
27 1,4-Dichlorobenzene	146	Compound Not Detected.						

28	1,2-Dichlorobenzene	146	Compound Not Detected.
29	Benzyl Alcohol	108	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
30	2-Methylphenol	108	Compound Not Detected.					
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	3.743	3.732	(1.075)	23502	0.10207	13.546(QMH)
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	4.090	4.079	(0.936)	14932	0.15455	20.510(Q)
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	4.379	4.374	(1.002)	102670	0.19582	25.988
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	4.871	4.866	(1.115)	43242	0.15253	20.243
63	1-Methylnaphthalene	142	4.946	4.941	(1.132)	19108	0.05765	7.6511
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					

212	Atrazine	200	Compound Not Detected.
111	Pentachlorophenol	266	Compound Not Detected.

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
115 Phenanthrene	178	6.732	6.727	(1.002)	50050	0.08477	11.250
116 Anthracene	178	Compound Not Detected.					
119 Carbazole	167	Compound Not Detected.					
120 Di-n-Butylphthalate	149	Compound Not Detected.					
123 Fluoranthene	202	7.604	7.599	(1.132)	146572	0.24509	32.527
124 Benzidine	184	Compound Not Detected.					
125 Pyrene	202	7.775	7.770	(0.898)	134929	0.19706	26.152
131 Butylbenzylphthalate	149	Compound Not Detected.					
133 3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136 Benzo(a)Anthracene	228	8.653	8.653	(0.999)	133359	0.19425	25.779
137 Chrysene	228	8.685	8.685	(1.002)	146801	0.23000	30.524
138 4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139 bis(2-ethylhexyl)Phthalate	149	8.583	8.588	(0.991)	143087	0.29905	39.688
140 Di-n-octylphthalate	149	Compound Not Detected.					
141 Benzo(b)fluoranthene	252	9.615	9.610	(0.958)	247054	0.37798	50.163(QM)
142 Benzo(k)fluoranthene	252	9.637	9.637	(0.960)	84687	0.11725	15.561(QM)
146 Benzo(a)pyrene	252	9.974	9.968	(0.994)	123172	0.19724	26.177
149 Indeno(1,2,3-cd)pyrene	276	11.514	11.503	(1.147)	96731	0.13897	18.444
150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
151 Benzo(g,h,i)perylene	276	11.974	11.953	(1.193)	83149	0.14619	19.402
198 1,4-Dioxane	88	Compound Not Detected.					
$ 154 Nitrobenzene-d5	82	3.855	3.844	(0.882)	483042	2.31683	307.48
$ 155 2-Fluorobiphenyl	172	5.122	5.117	(0.910)	1028117	2.68144	355.86
$ 156 Terphenyl-d14	244	7.850	7.845	(0.906)	1337969	3.10168	411.64
$ 157 Phenol-d5	99	3.250	3.181	(0.934)	852907	4.39914	583.83(H)
$ 158 2-Fluorophenol	112	2.700	2.603	(0.776)	664388	4.48461	595.17(H)
$ 159 2,4,6-Tribromophenol	330	6.203	6.198	(1.102)	193647	4.09332	543.24
$ 186 2-Chlorophenol-d4	132	3.352	3.315	(0.963)	691414	4.54087	602.64
$ 187 1,2-Dichlorobenzene-d4	152	3.593	3.582	(1.032)	247356	2.37396	315.06
M 195 Cresols, total	100	Compound Not Detected.					
101 Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

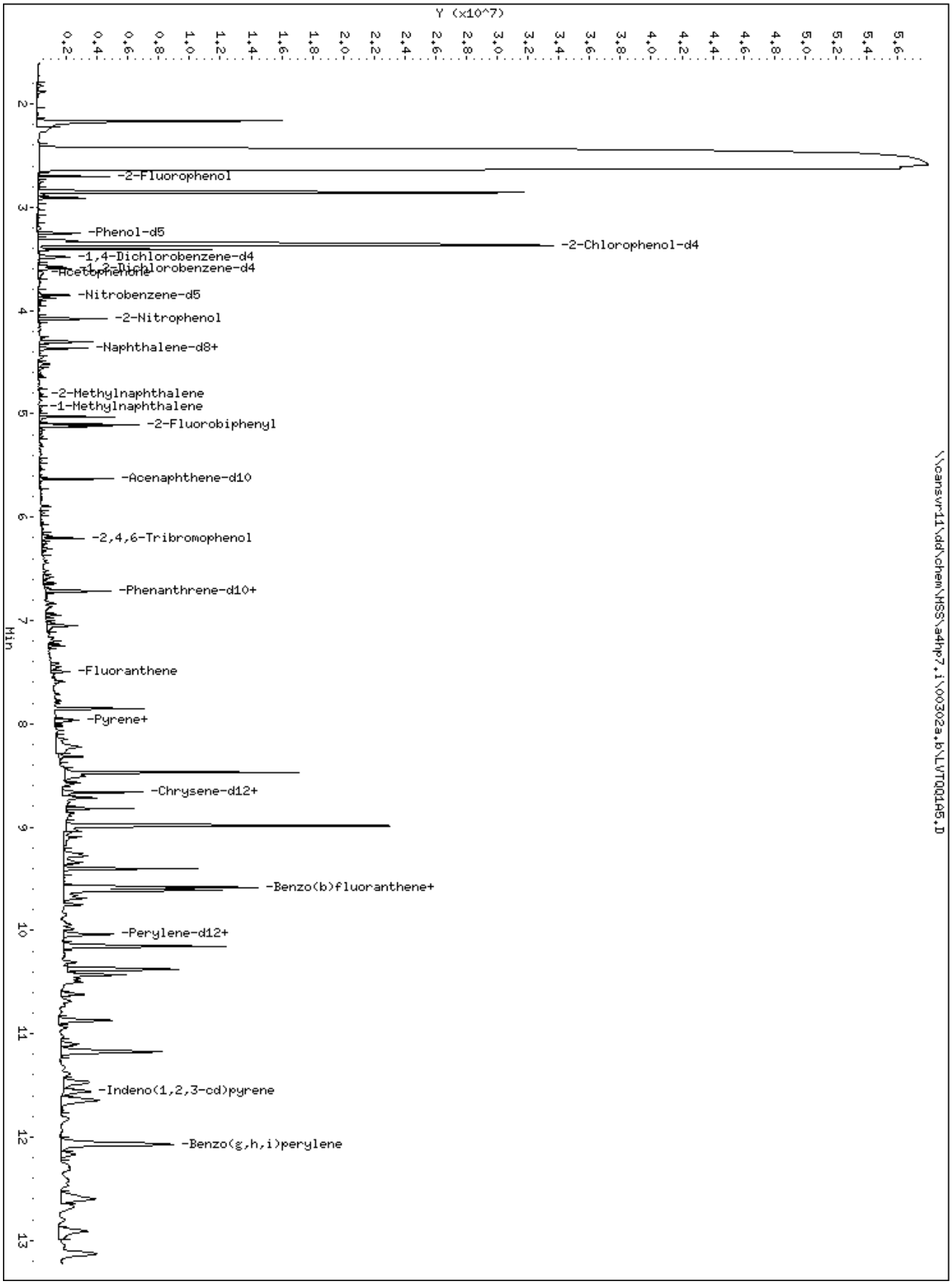
Instrument ID: a4hp7.i
Lab File ID: LVTQQ1A5.D
Lab Smp Id: lvtqq1a5
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Client Smp ID: B12SS-036M-5038-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	259150	-17.58
2 Naphthalene-d8	1302947	651474	2605894	1179029	-9.51
3 Acenaphthene-d10	667302	333651	1334604	676105	1.32
4 Phenanthrene-d10	1052286	526143	2104572	1092856	3.86
5 Chrysene-d12	1252372	626186	2504744	1390793	11.05
6 Perylene-d12	1122003	561002	2244006	1297365	15.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.48	0.31
2 Naphthalene-d8	4.36	3.86	4.86	4.37	0.25
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.10
4 Phenanthrene-d10	6.71	6.21	7.21	6.72	0.08
5 Chrysene-d12	8.66	8.16	9.16	8.66	0.00
6 Perylene-d12	10.03	9.53	10.53	10.04	0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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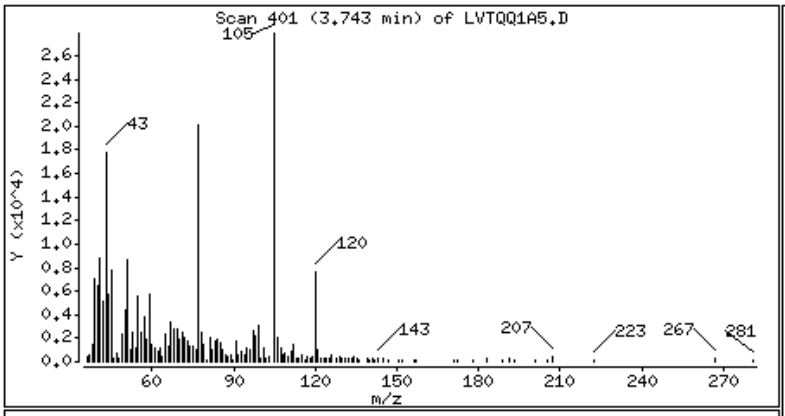
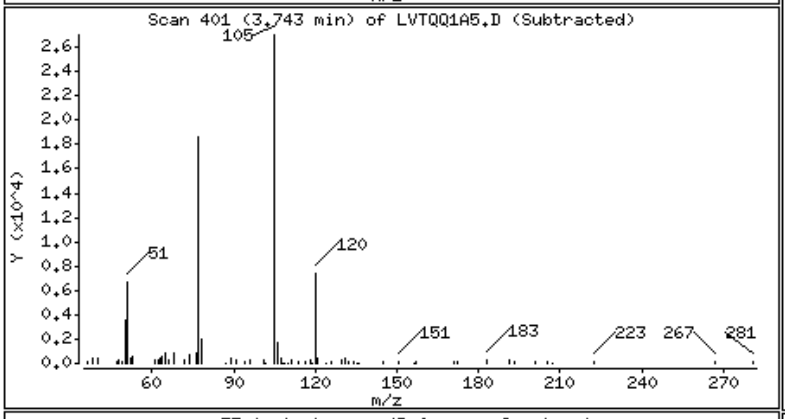
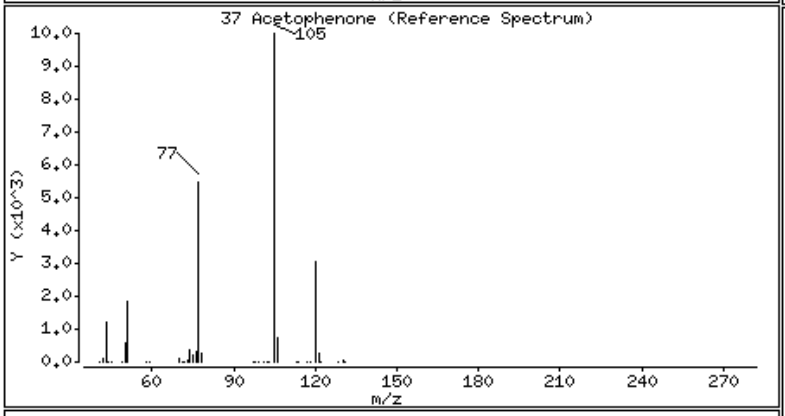
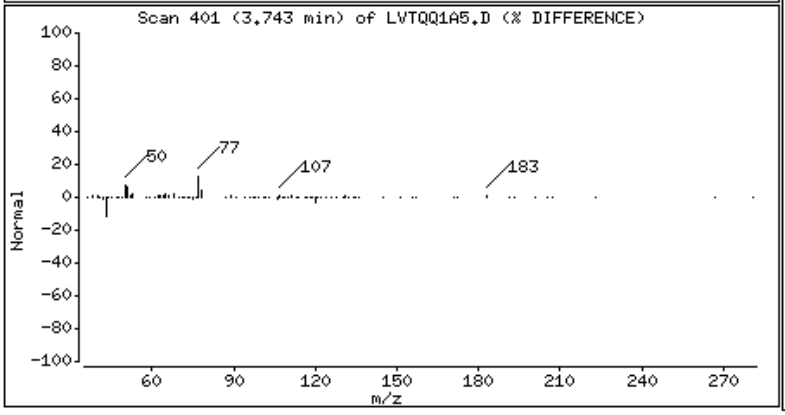
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6
2
3
4
5
6
7
8
9
10
11
12
13
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Acetophenone
-Nitrobenzene-d5
-2-Nitrophenol
-Naphthalene-d8+
-2-Methylnaphthalene
-1-Methylnaphthalene
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-Fluoranthene
-Pyrene+
-Chrysene-d12+
-Benzo(b)fluoranthene+
-Perylene-d12+
-Indeno(1,2,3-cd)pyrene
-Benzo(g,h,i)perylene
\\cansvr11\dd\chem\HSS\a4hp7.i\00302a.b\LVTQQ105.D

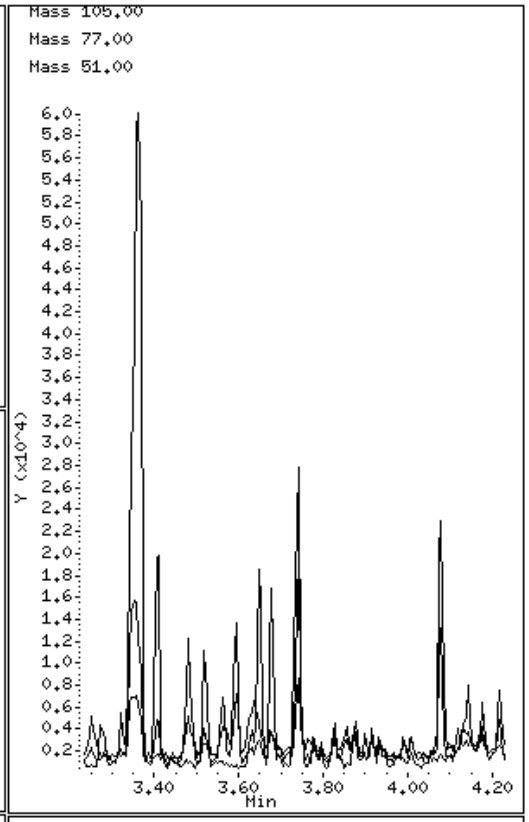
37 Acetophenone

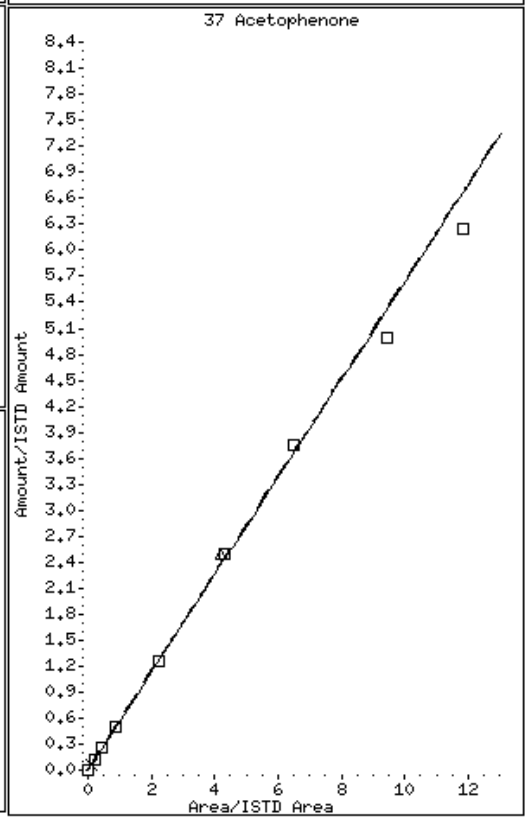




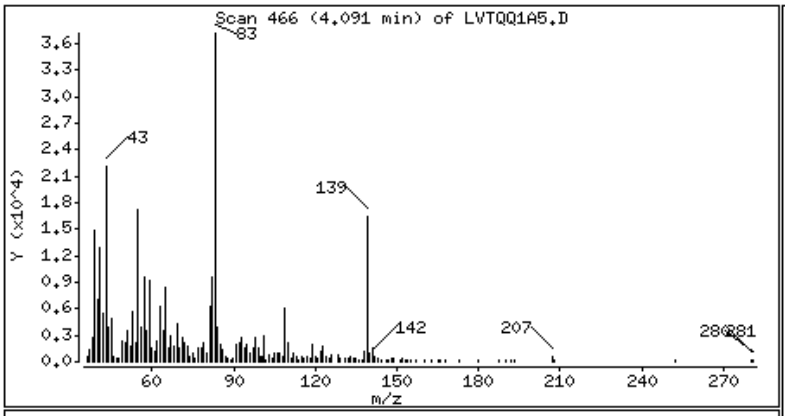


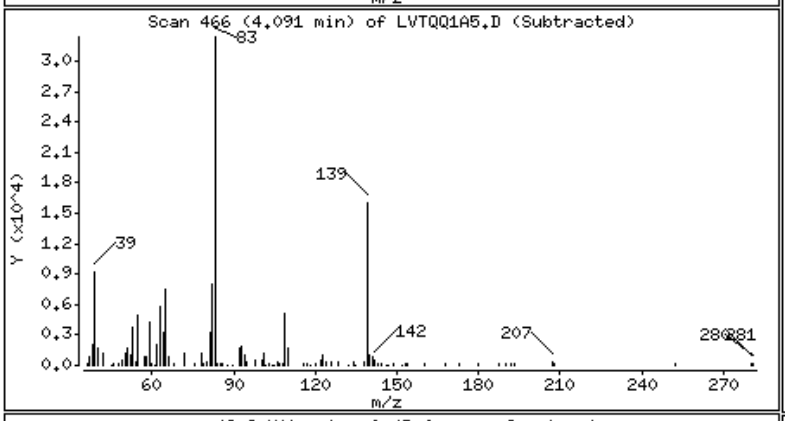


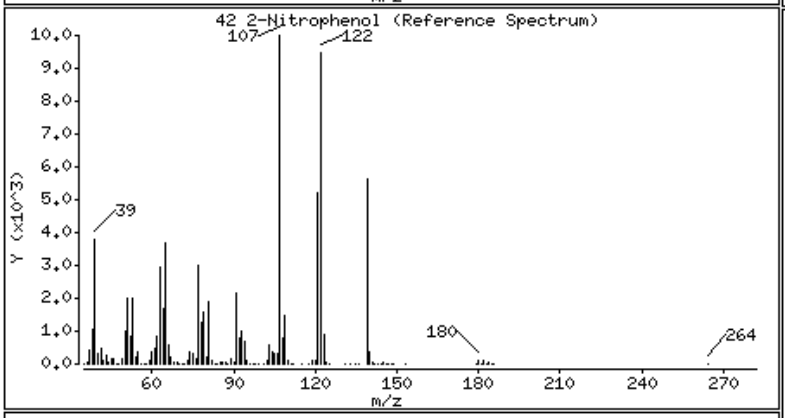


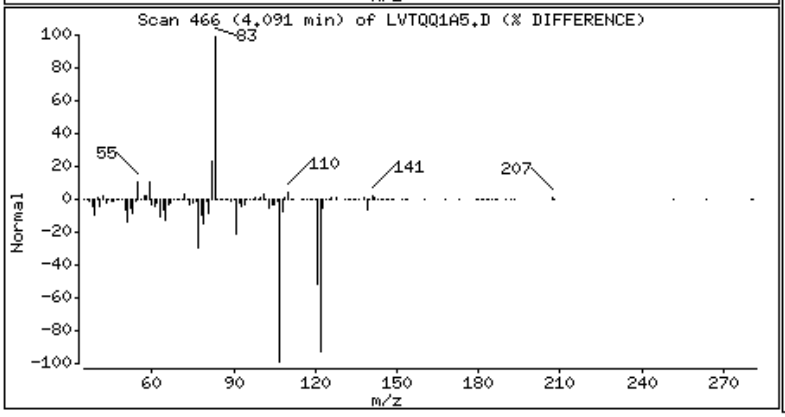


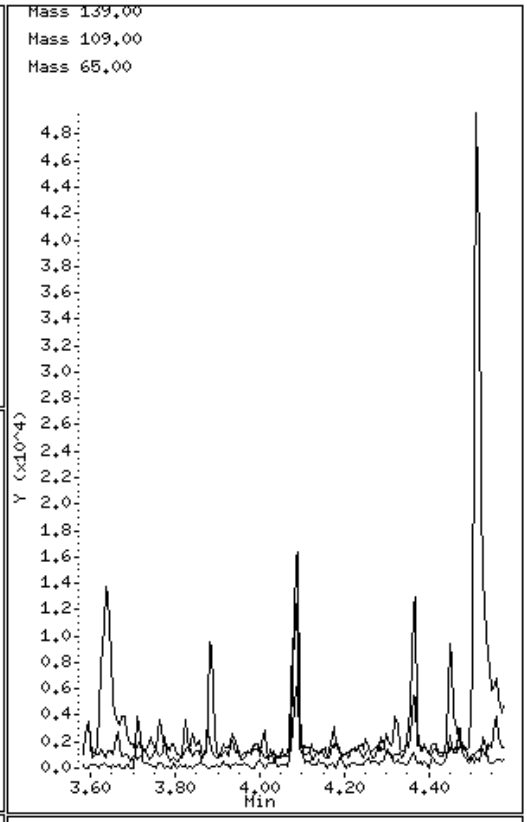
42 2-Nitrophenol

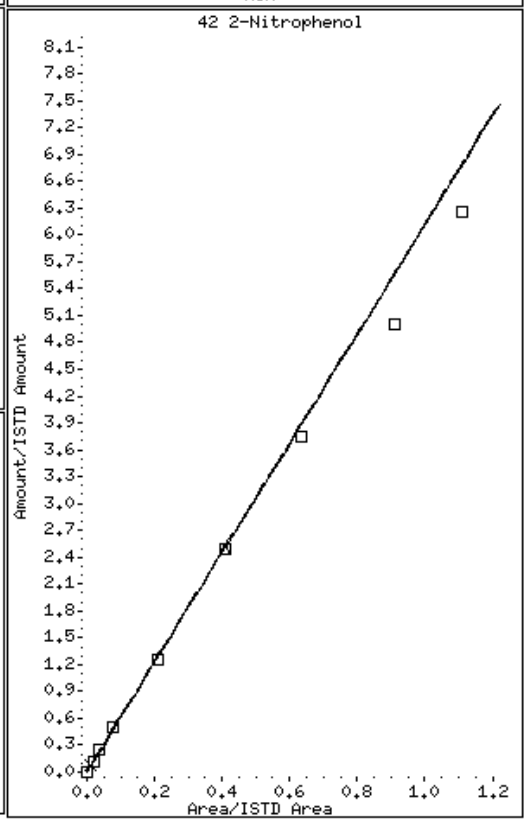




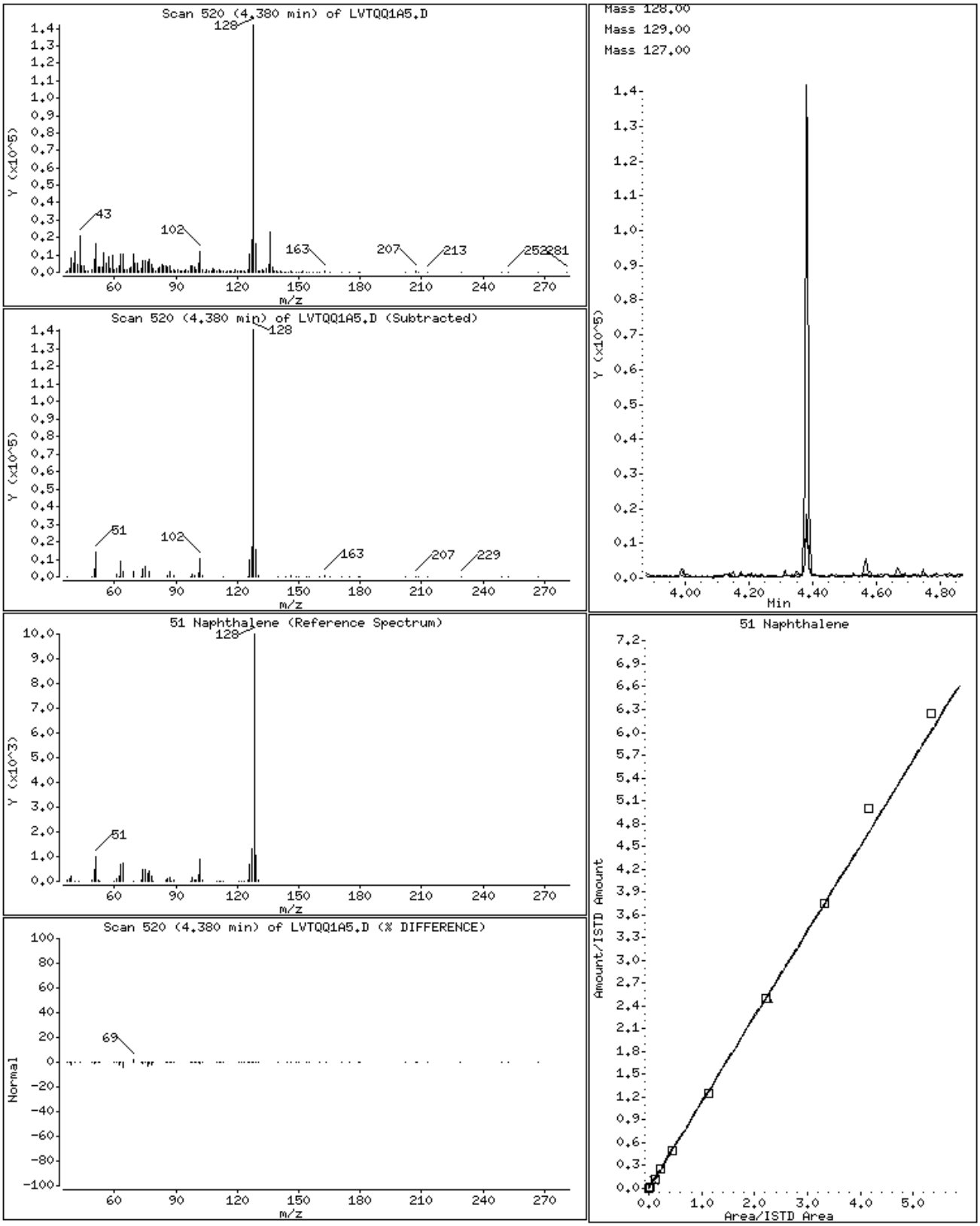




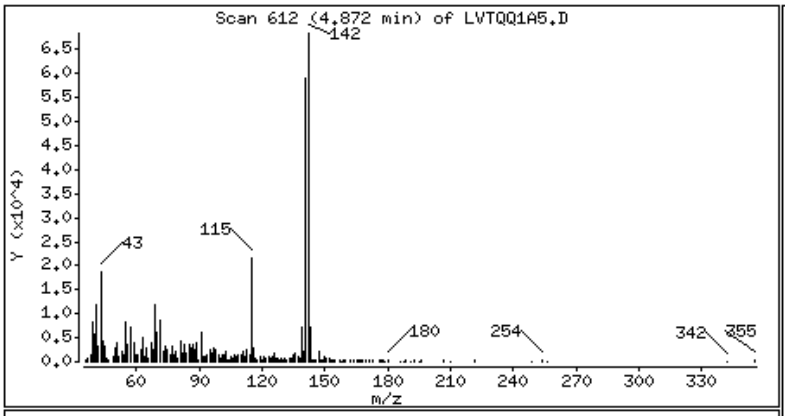


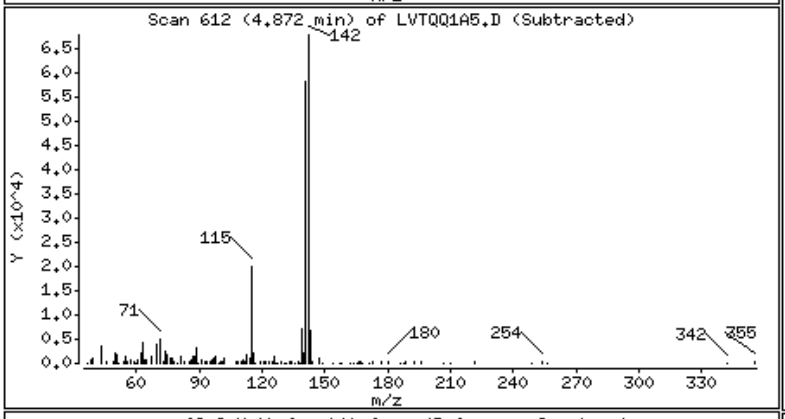


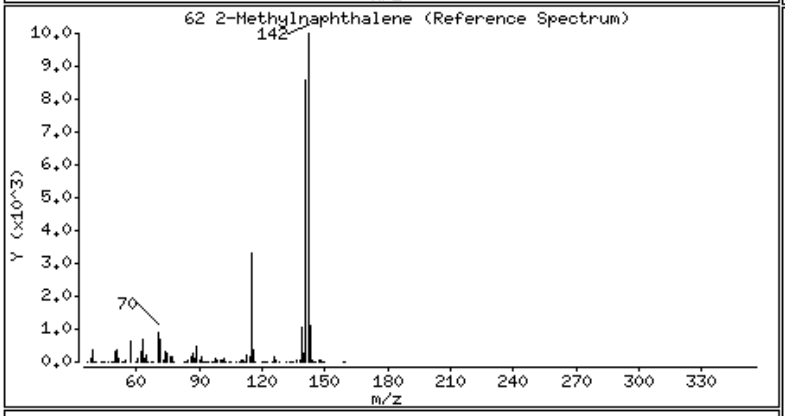
51 Naphthalene

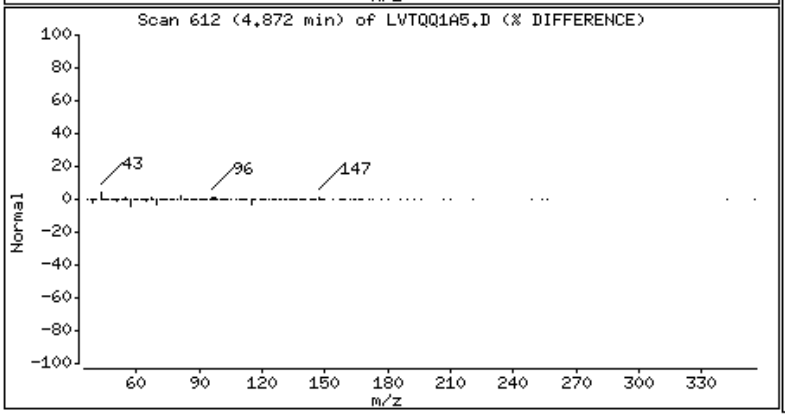


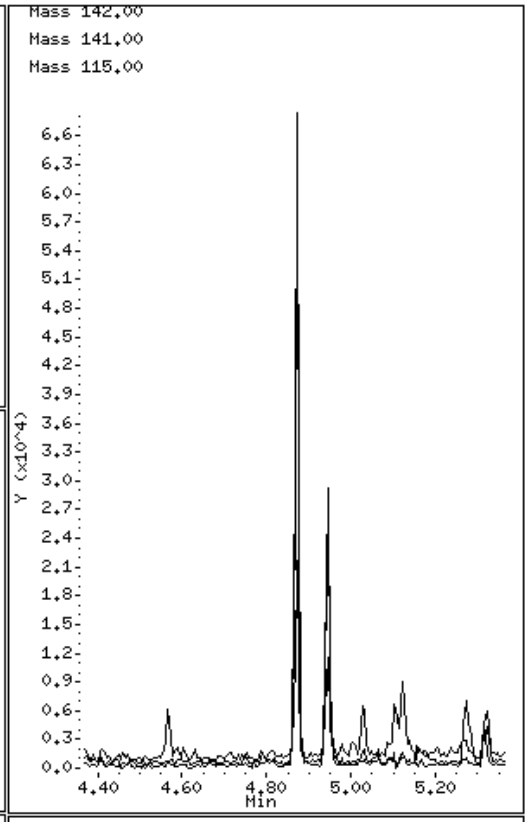
62 2-Methylnaphthalene

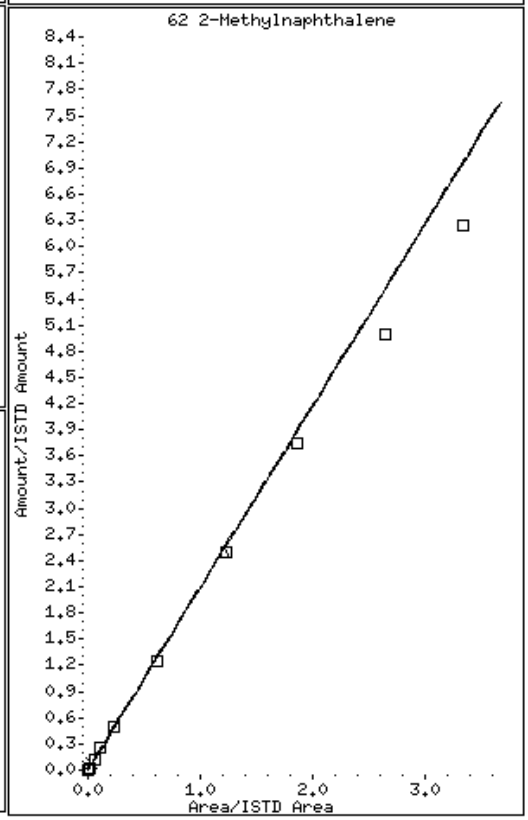




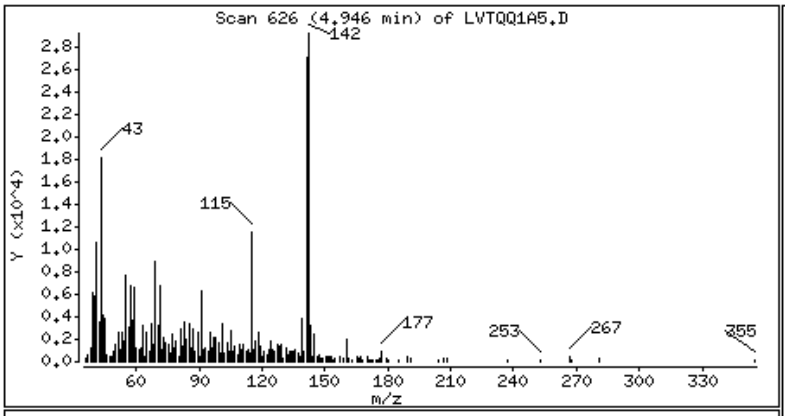


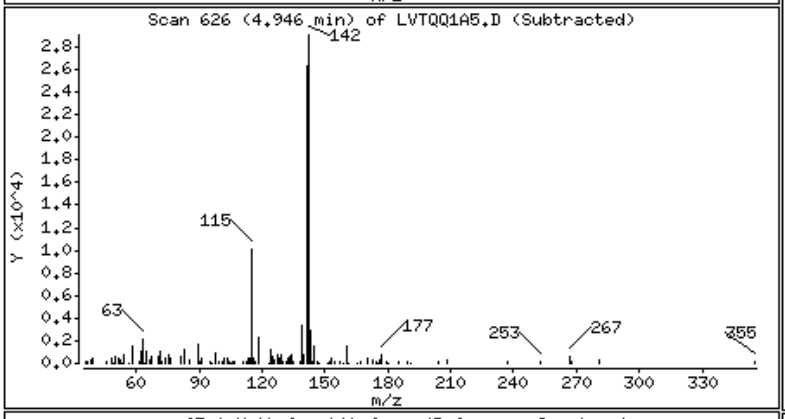


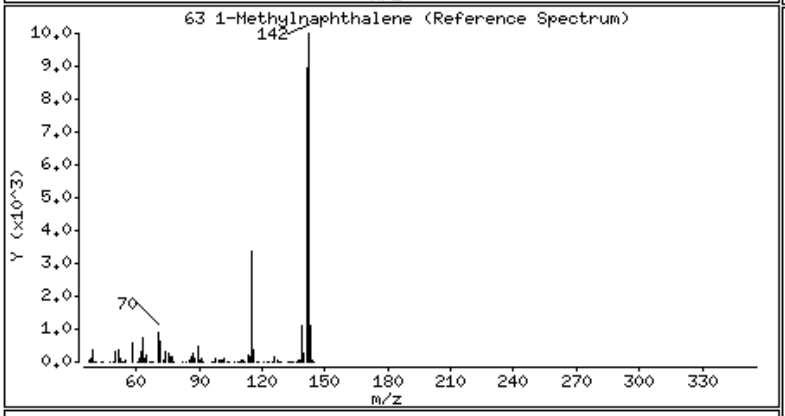


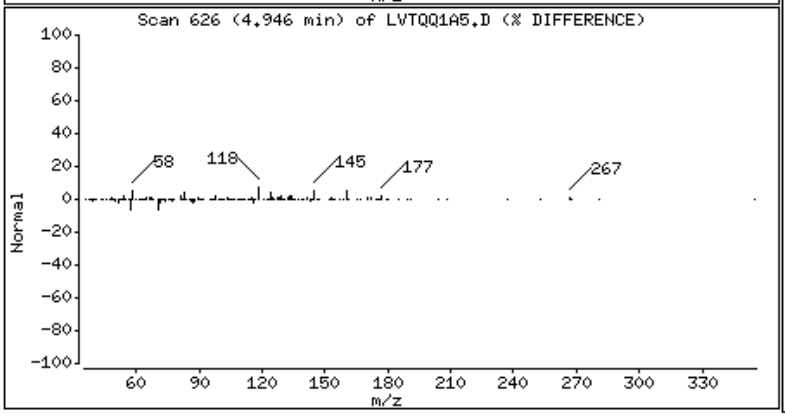


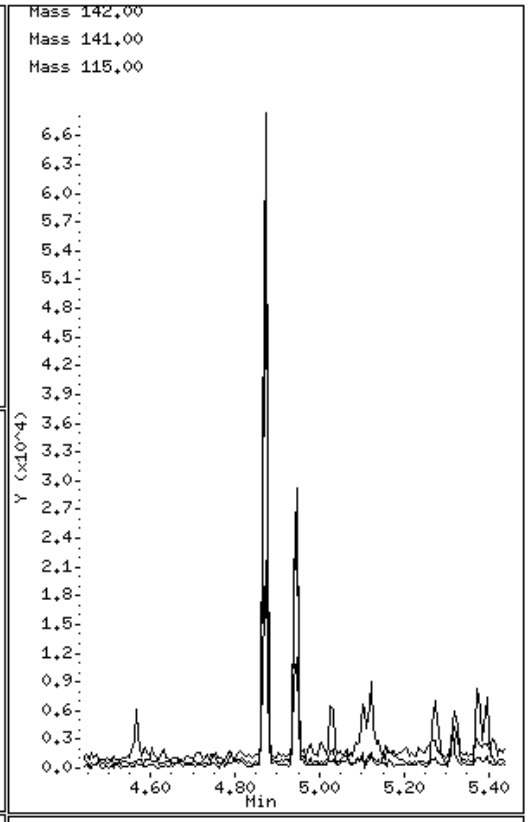
63 1-Methylnaphthalene

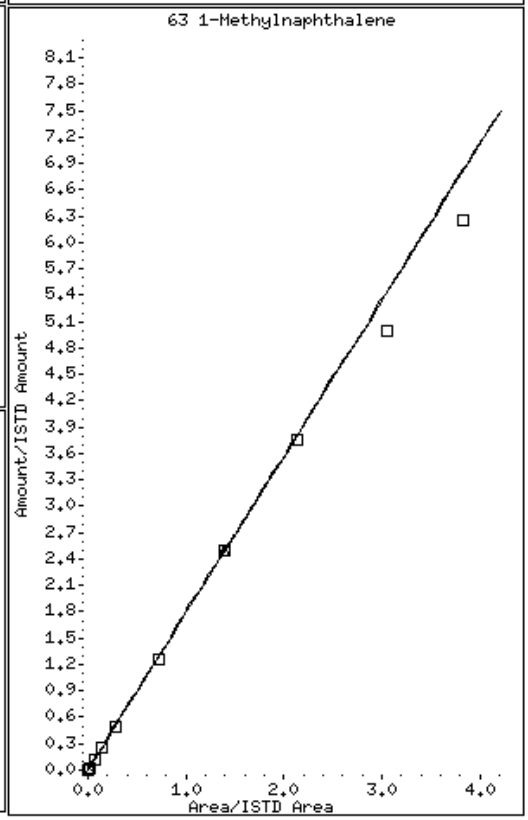




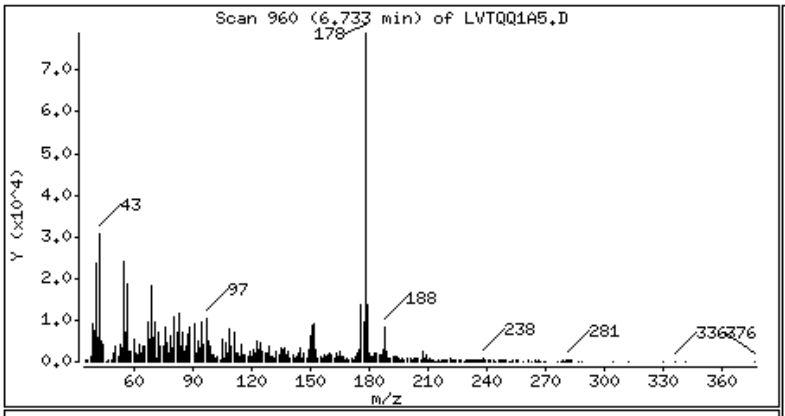


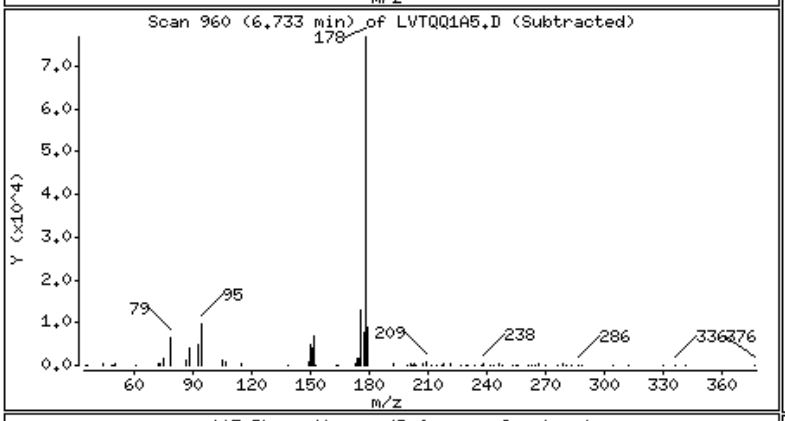


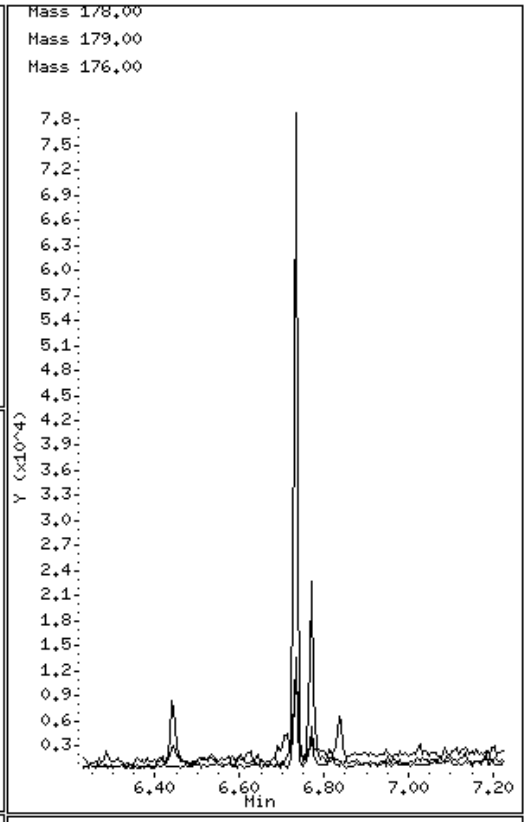


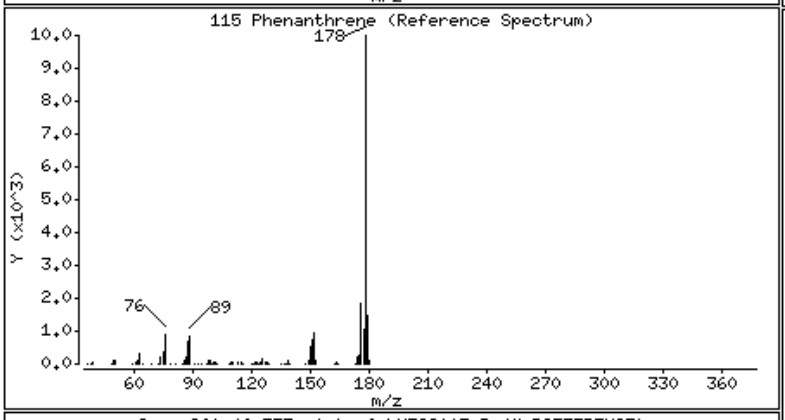


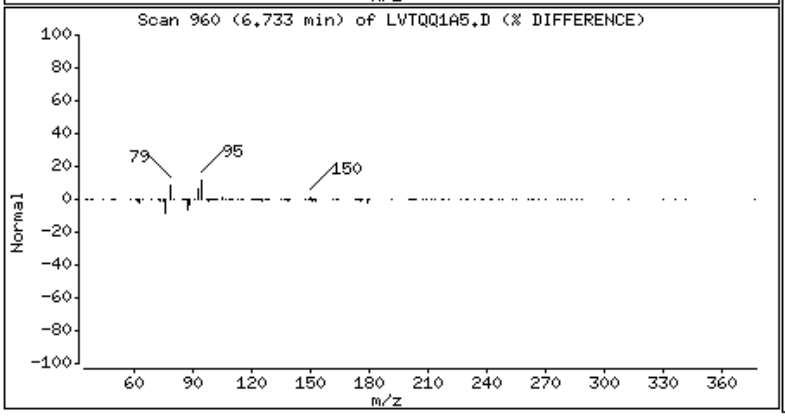
115 Phenanthrene

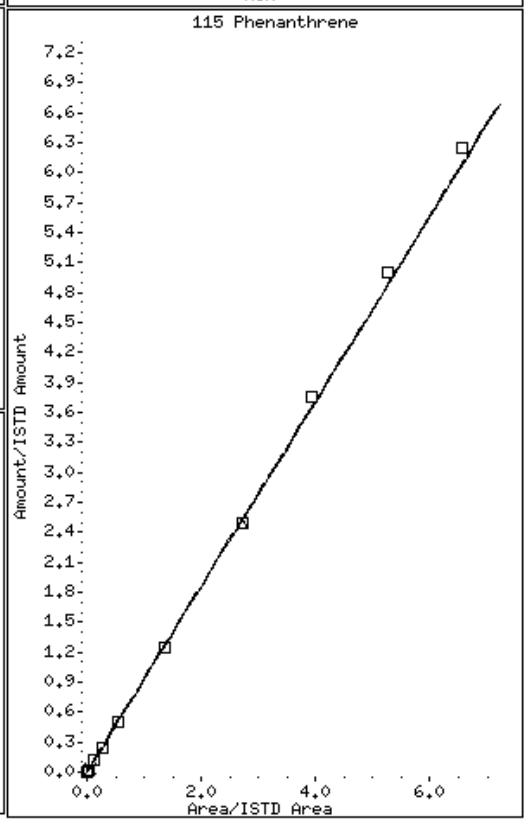




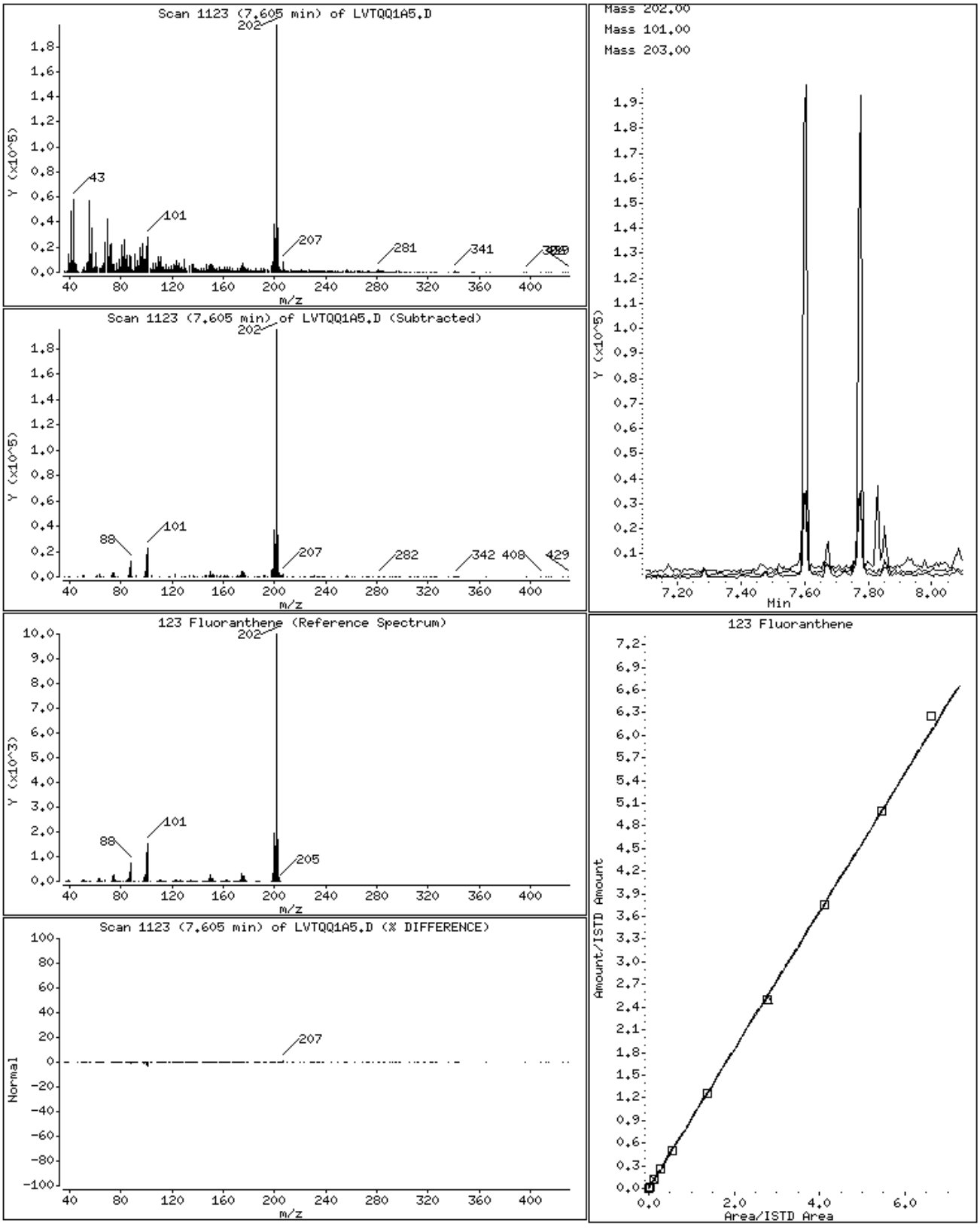




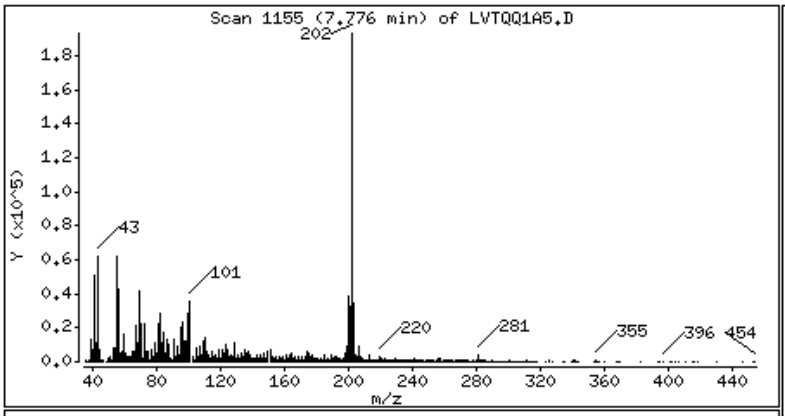


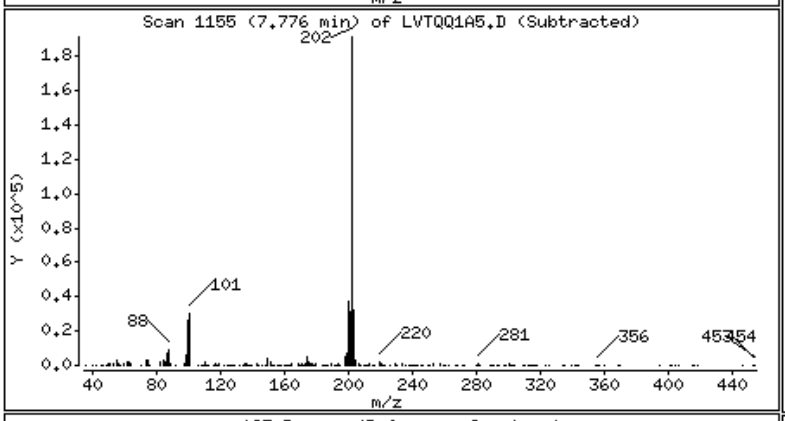


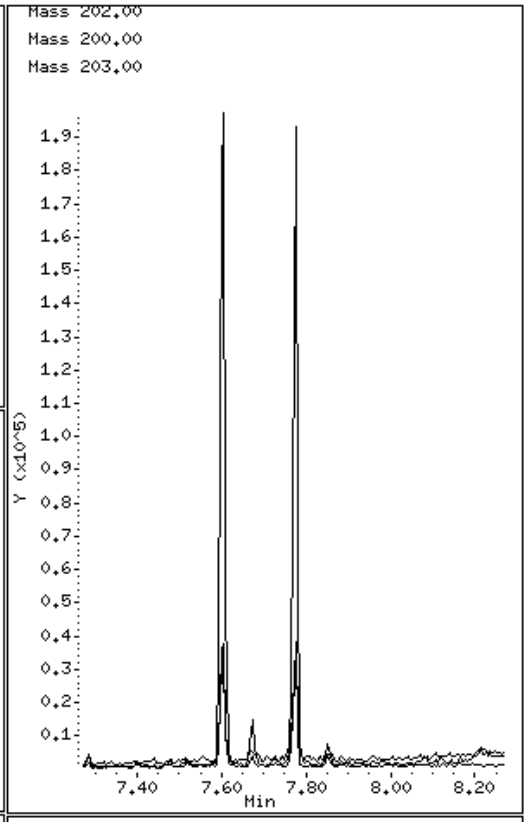
123 Fluoranthene

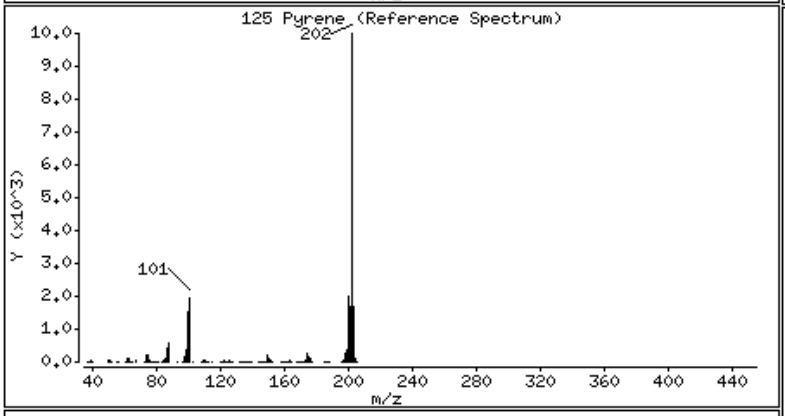


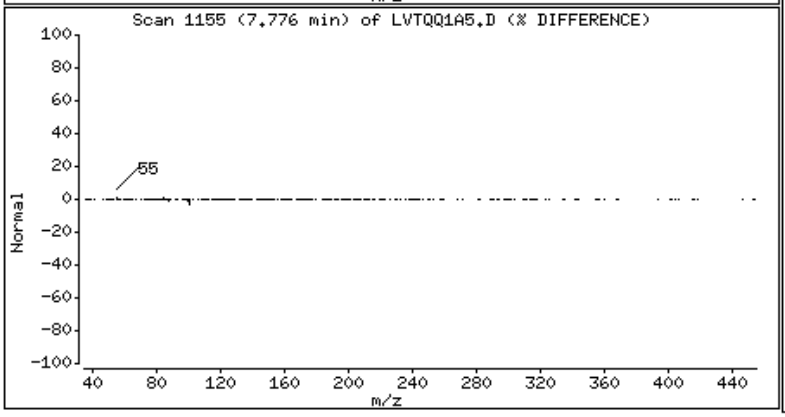
125 Pyrene

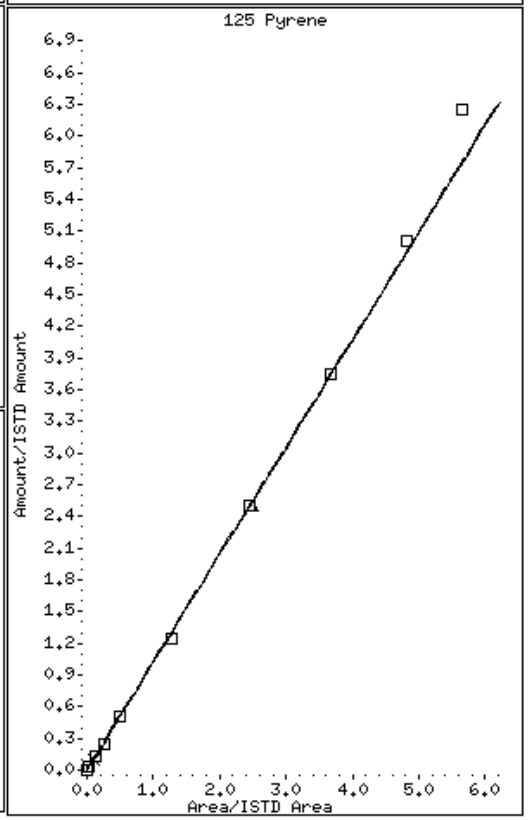

Scan 1155 (7.776 min) of LVTQQ1A5.D
Y (x10^5)
m/z
202
43
101
220
281
355
396
454


Scan 1155 (7.776 min) of LVTQQ1A5.D (Subtracted)
Y (x10^5)
m/z
202
88
101
220
281
356
453
454

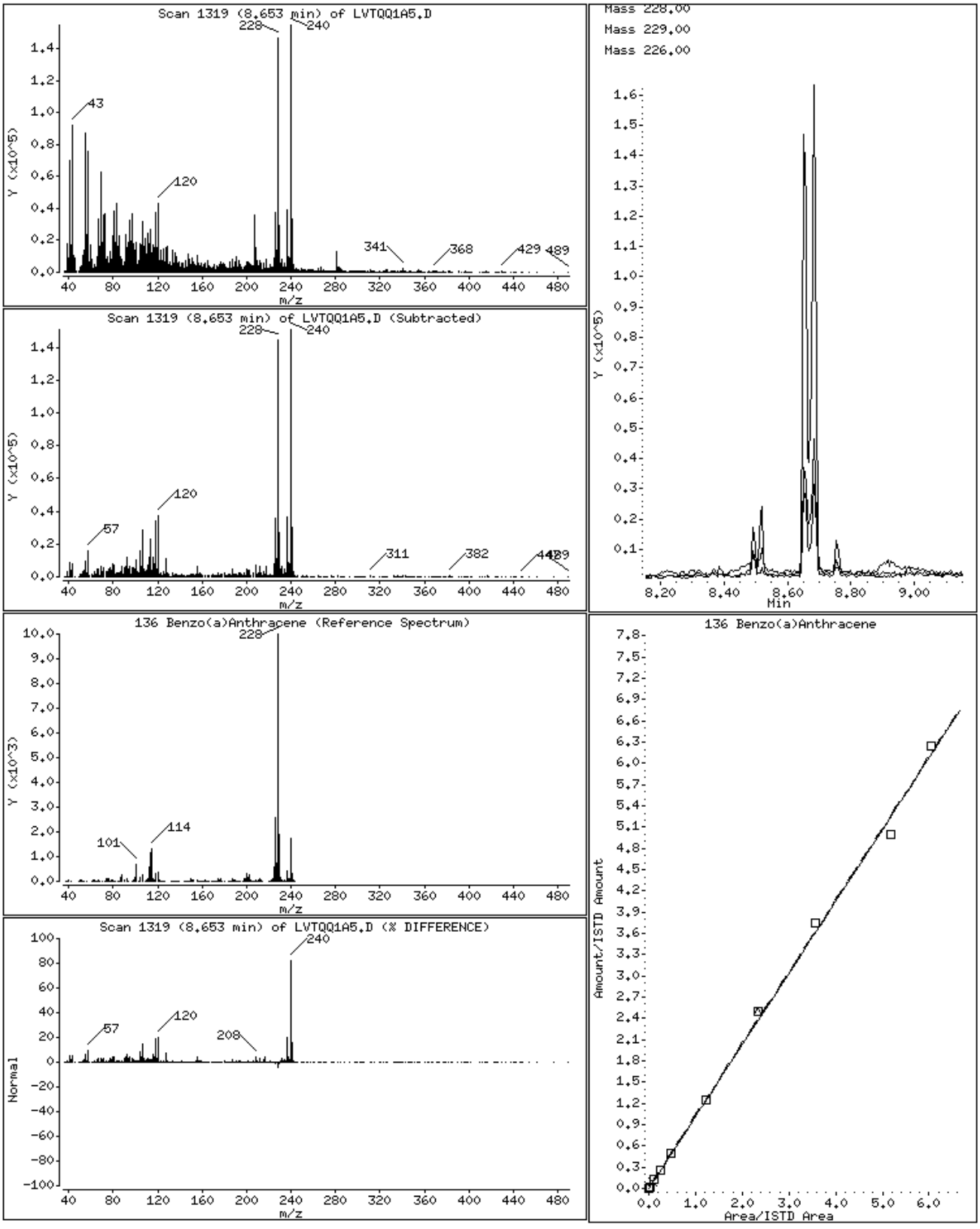

Mass 202.00
Mass 200.00
Mass 203.00
Y (x10^5)
Min


125 Pyrene (Reference Spectrum)
Y (x10^3)
m/z
202
101

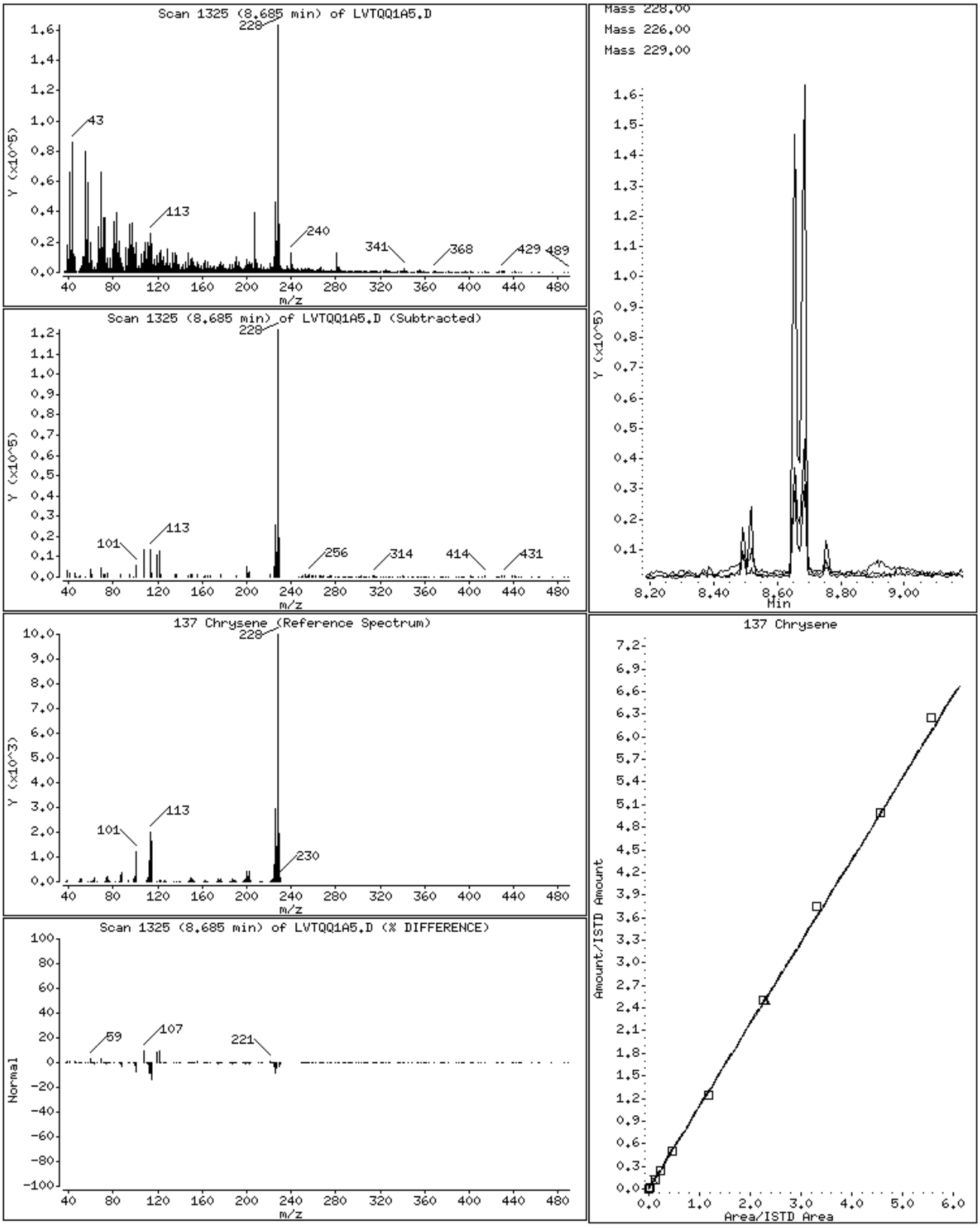

Scan 1155 (7.776 min) of LVTQQ1A5.D (% DIFFERENCE)
Normal
m/z
55


125 Pyrene
Amount/ISTD Amount
Area/ISTD Area

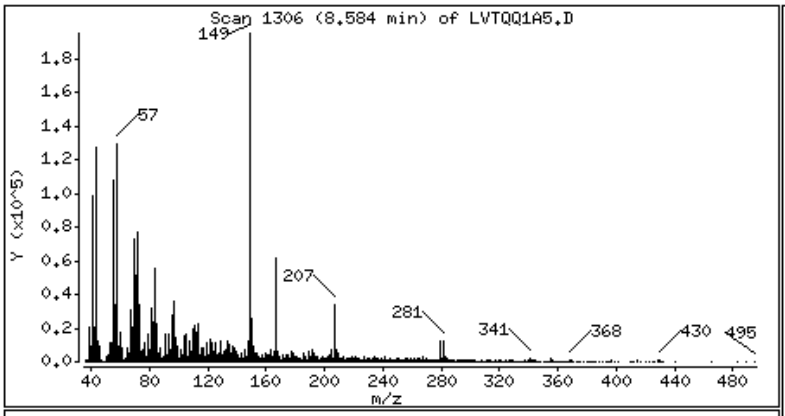
136 Benzo(a)Anthracene

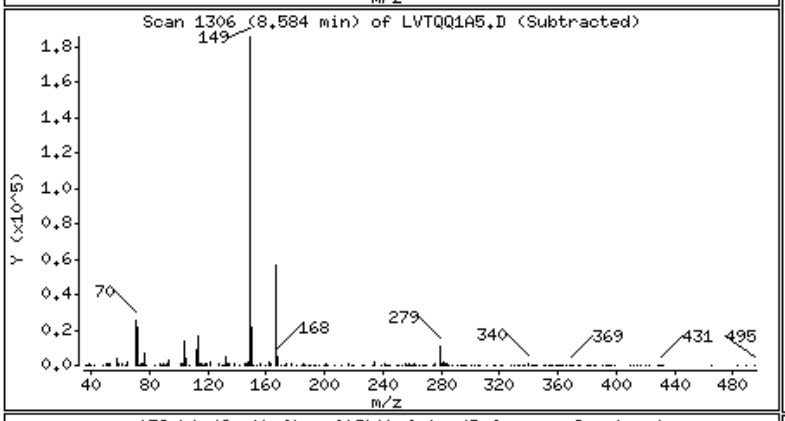


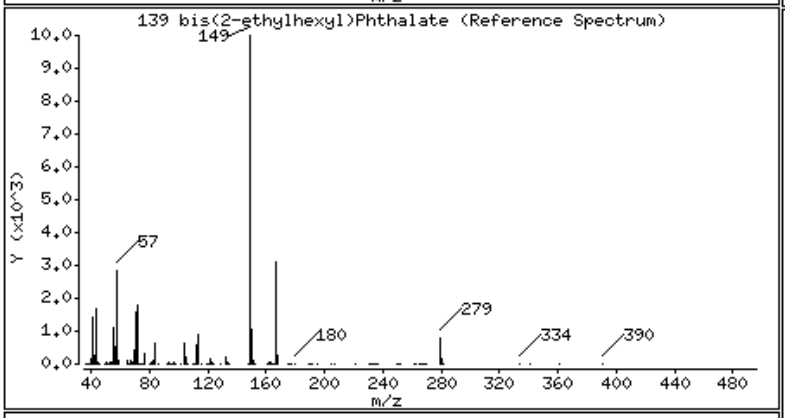
137 Chrysene

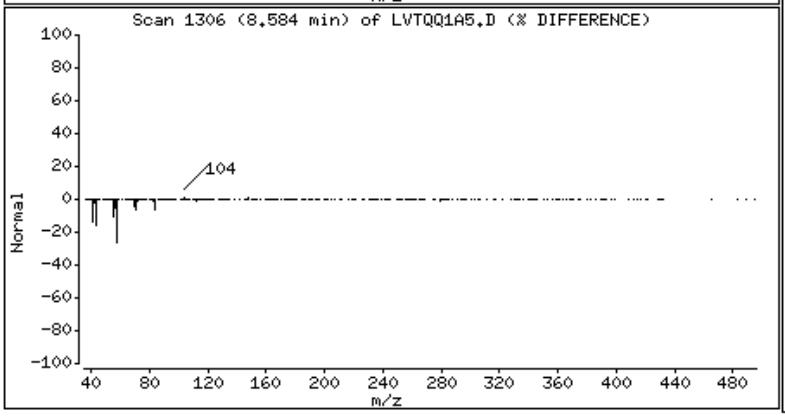


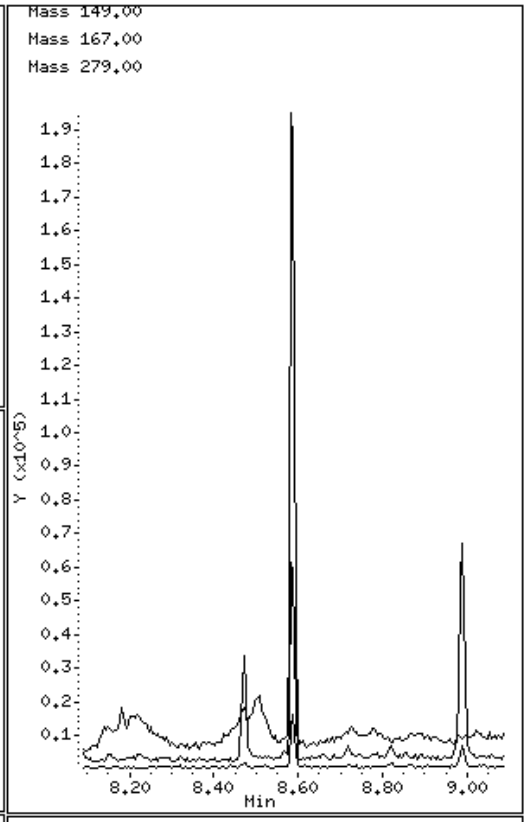
139 bis(2-ethylhexyl)Phthalate

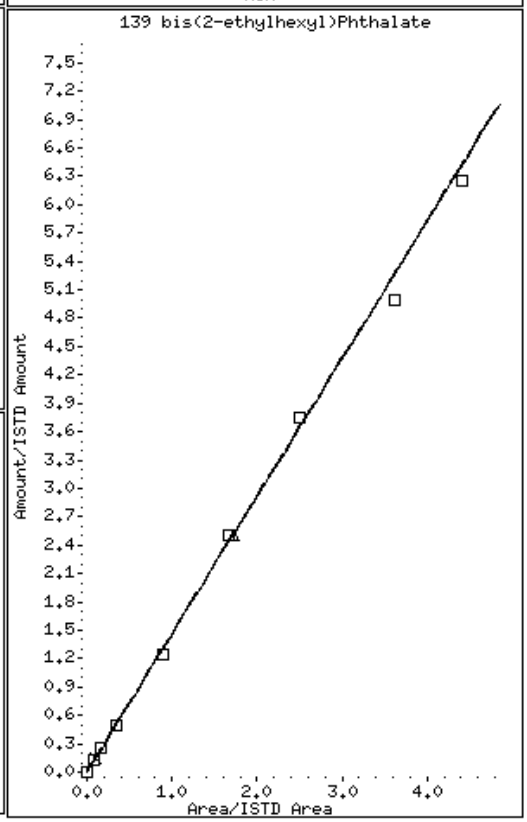




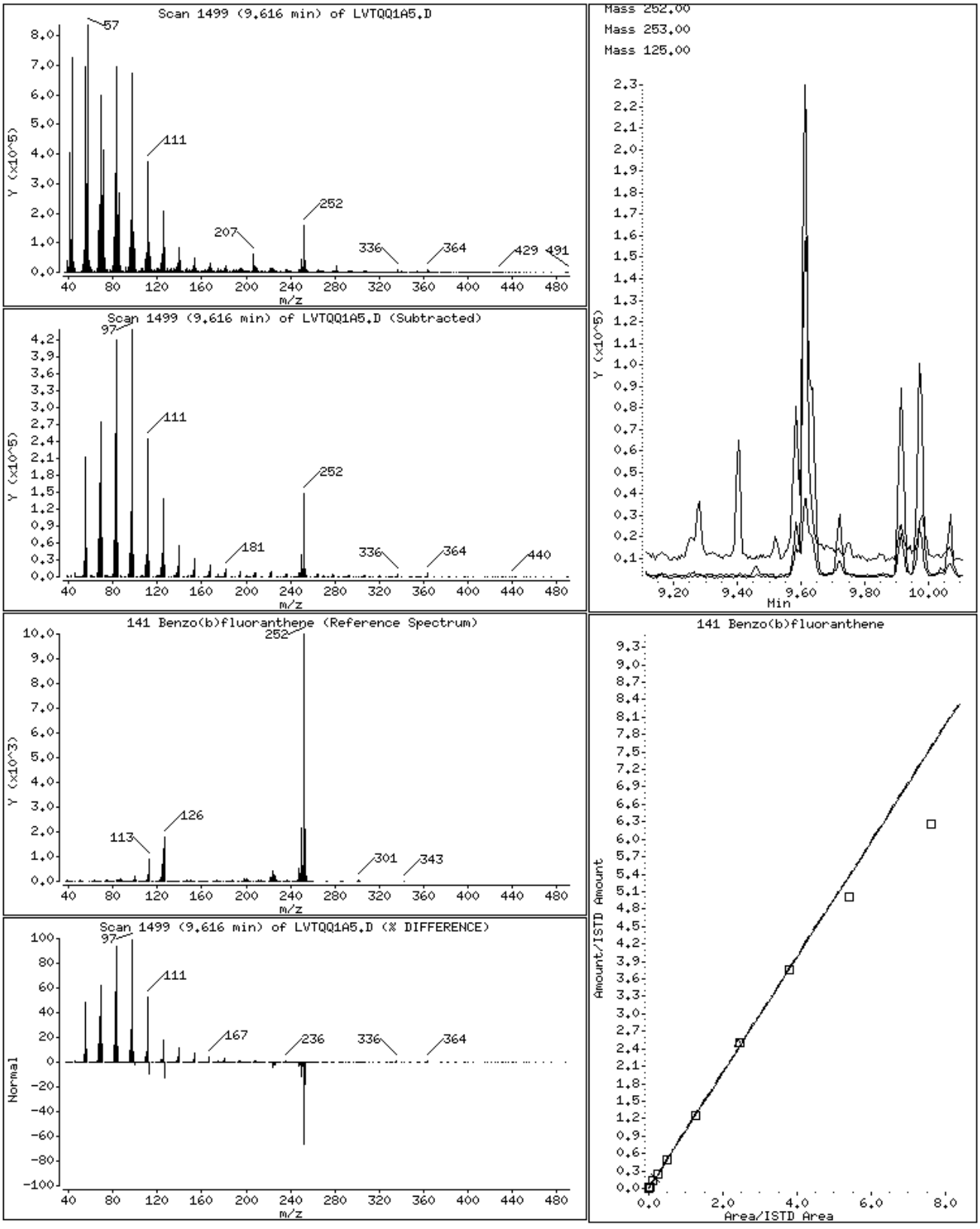




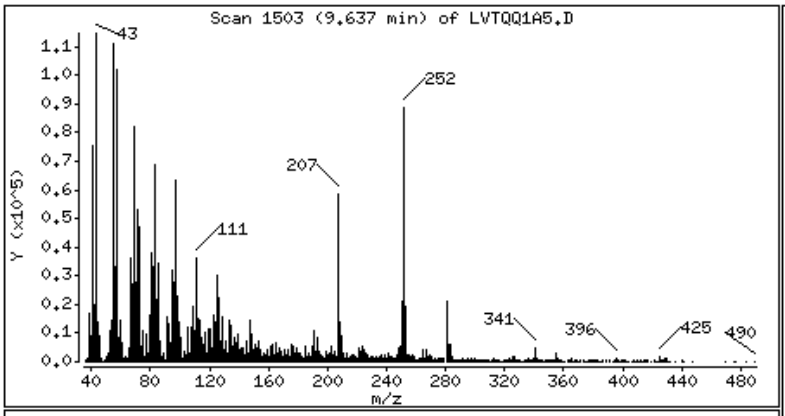


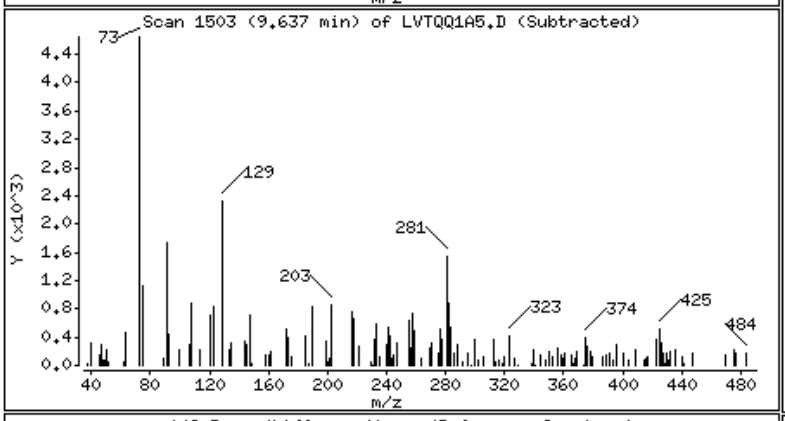


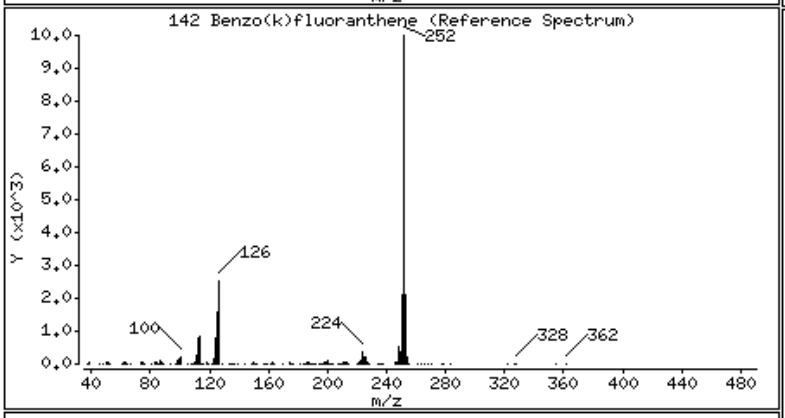
141 Benzo(b)fluoranthene

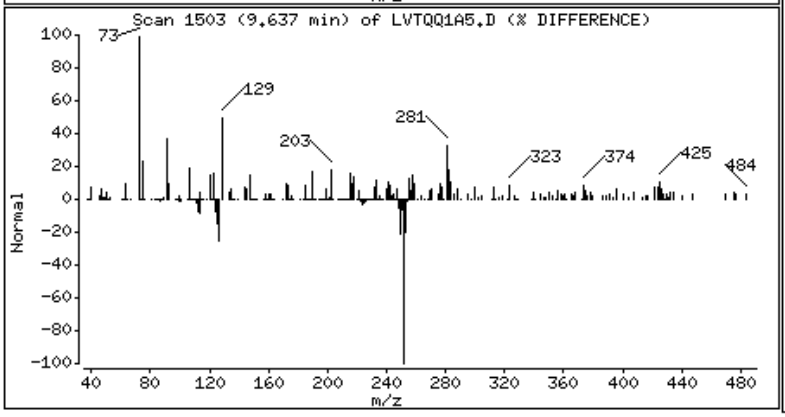


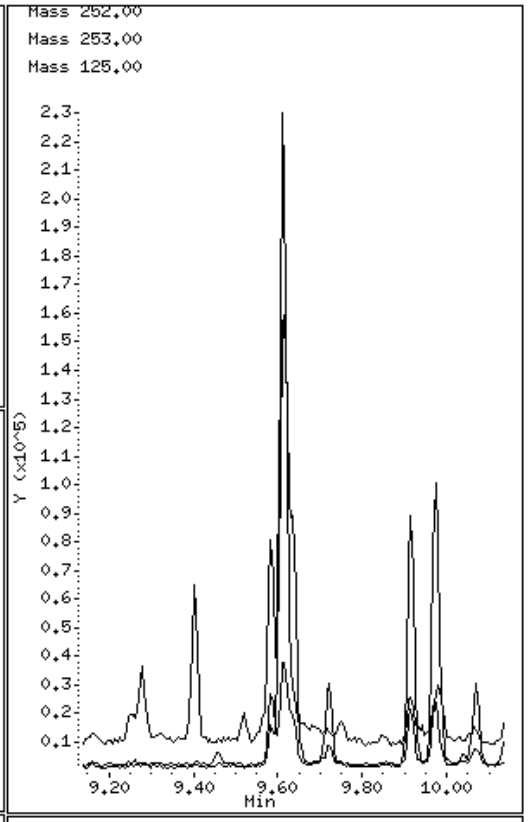
142 Benzo(k)fluoranthene

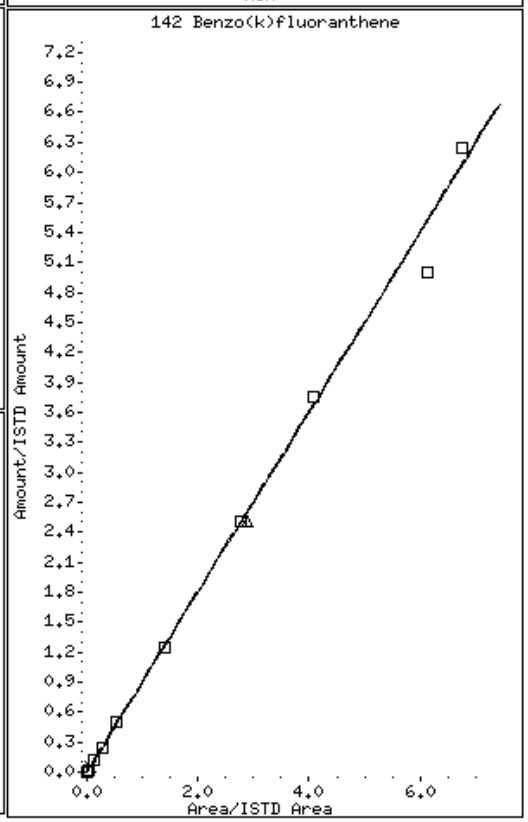




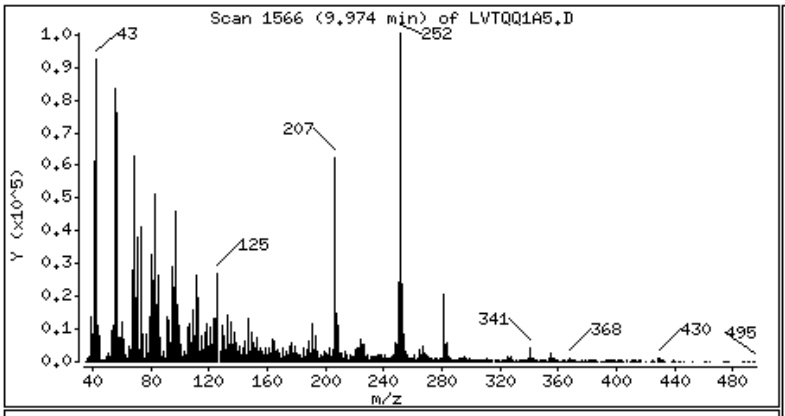


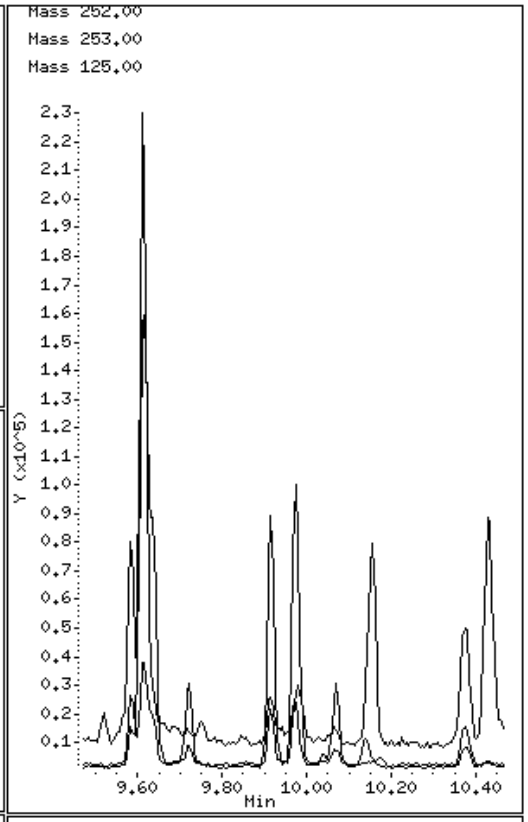


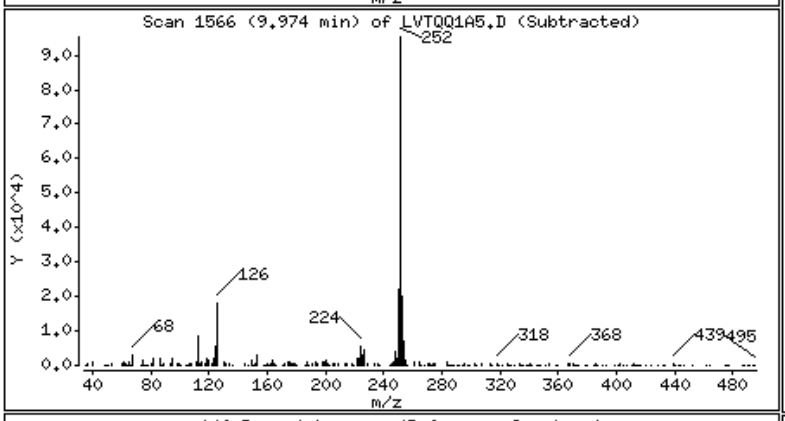


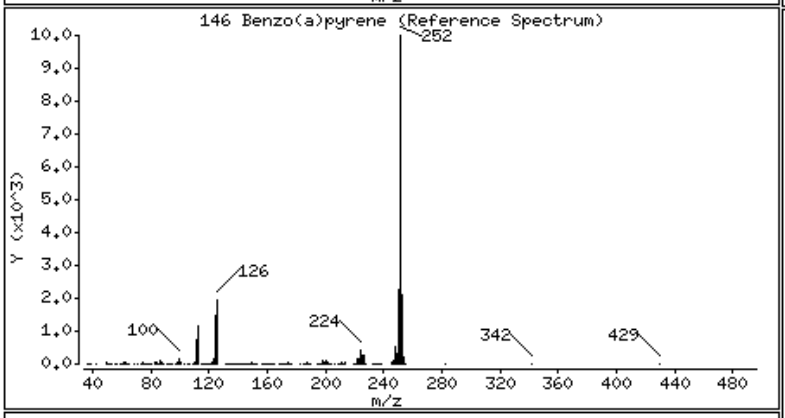


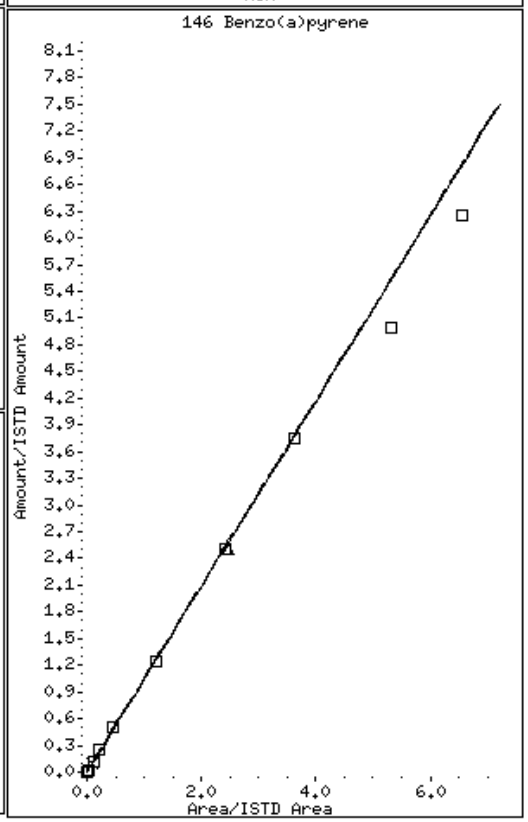
146 Benzo(a)pyrene

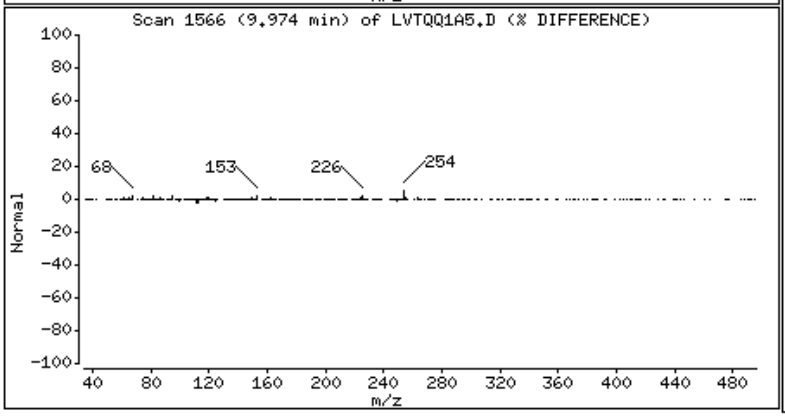




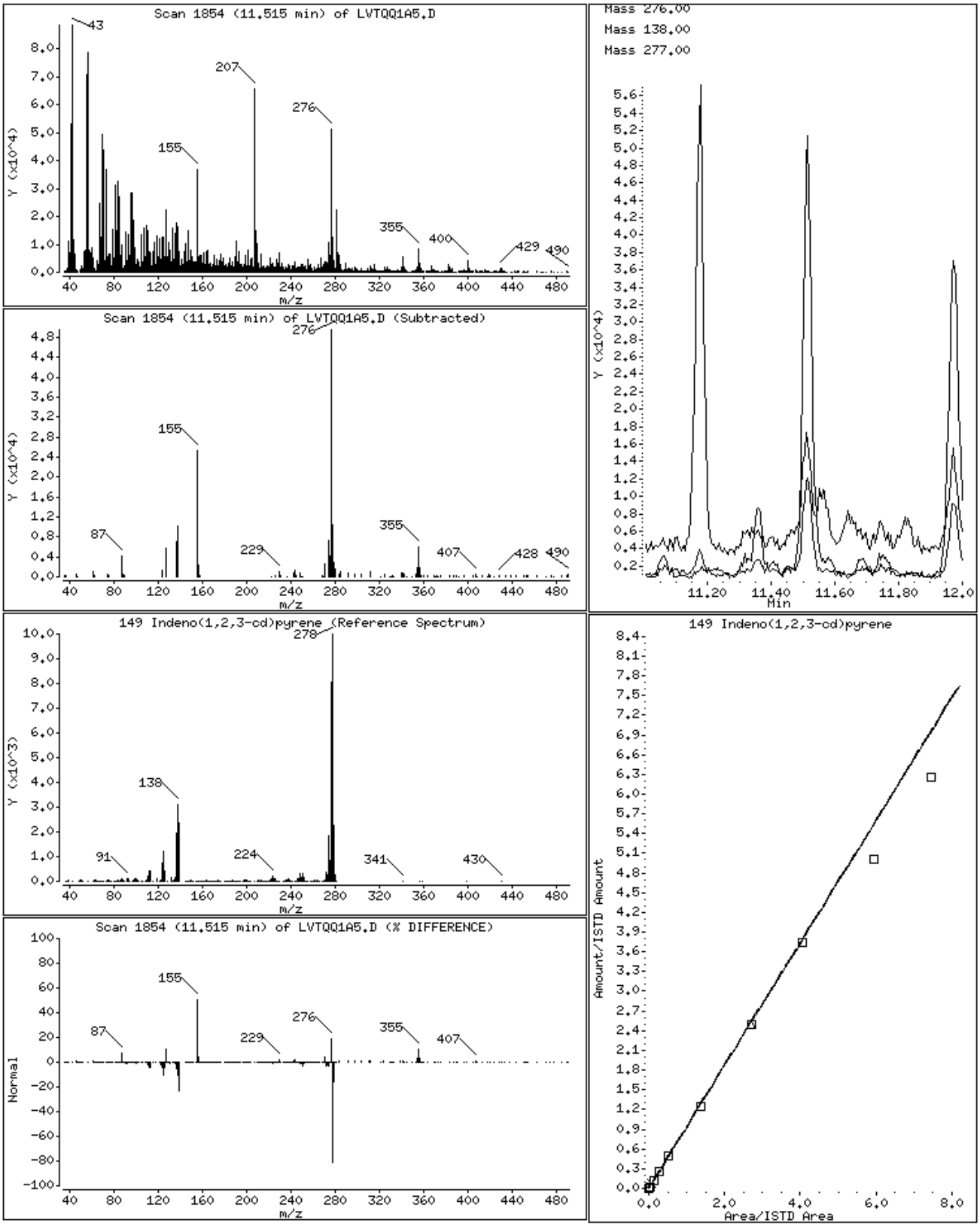




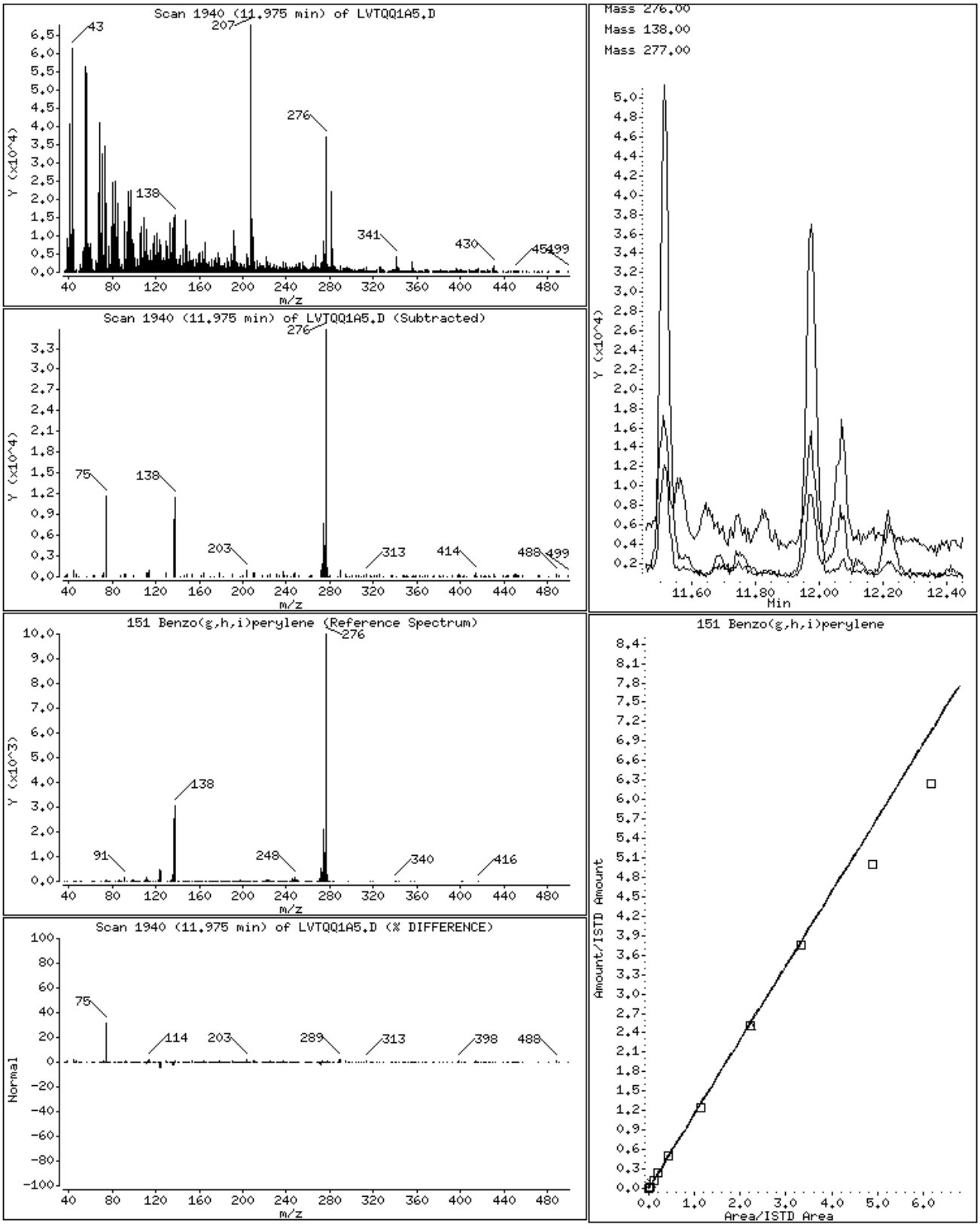




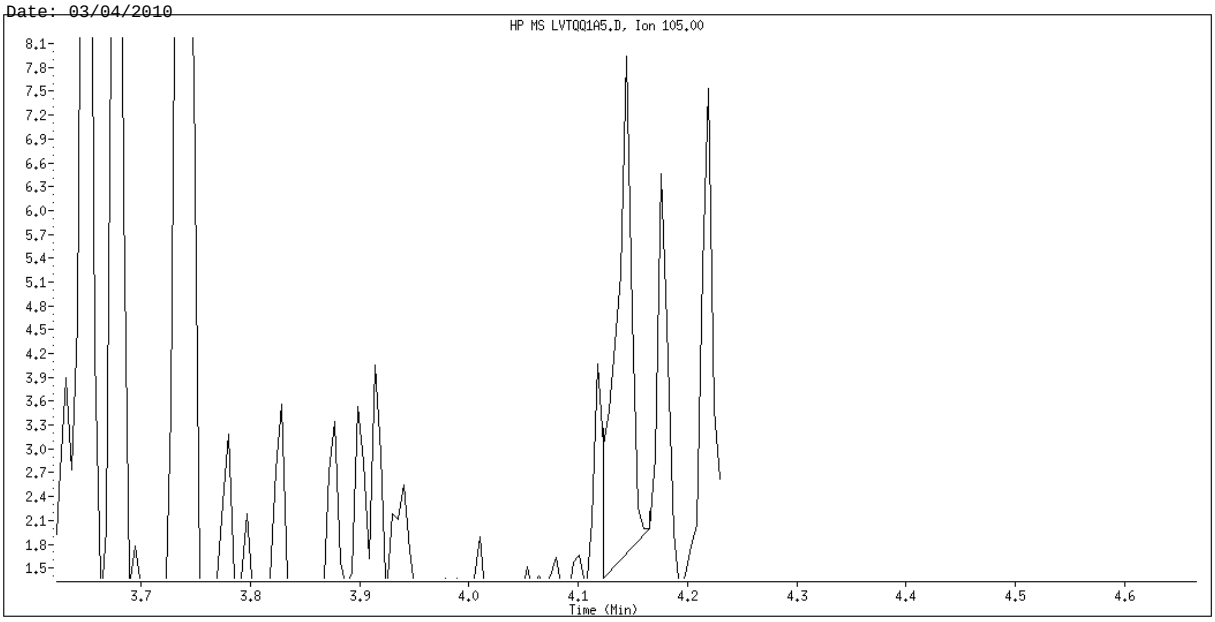
149 Indeno(1,2,3-cd)pyrene



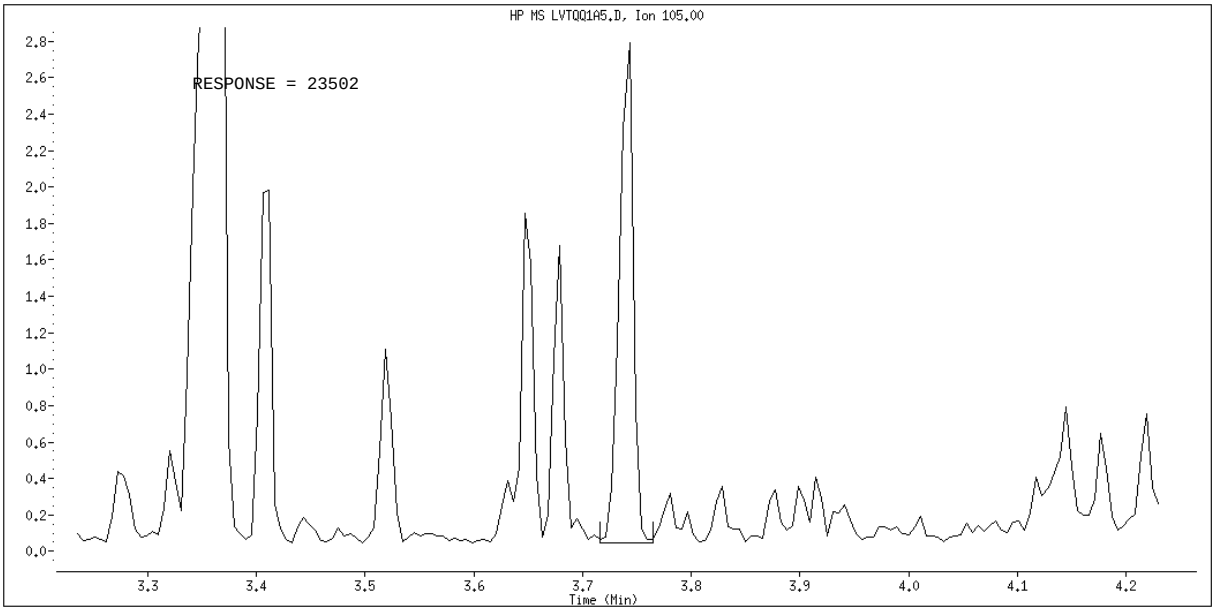
151 Benzo(g,h,i)perylene



Data File Name: LVTQQ1A5.D
Inj. Date and Time: 02-MAR-2010 15:22
Instrument ID: a4hp7.i
Client ID: B12SS-036M-5038-SO
Compound Name: Acetophenone
CAS #: 98-86-2
Report Date: 03/04/2010



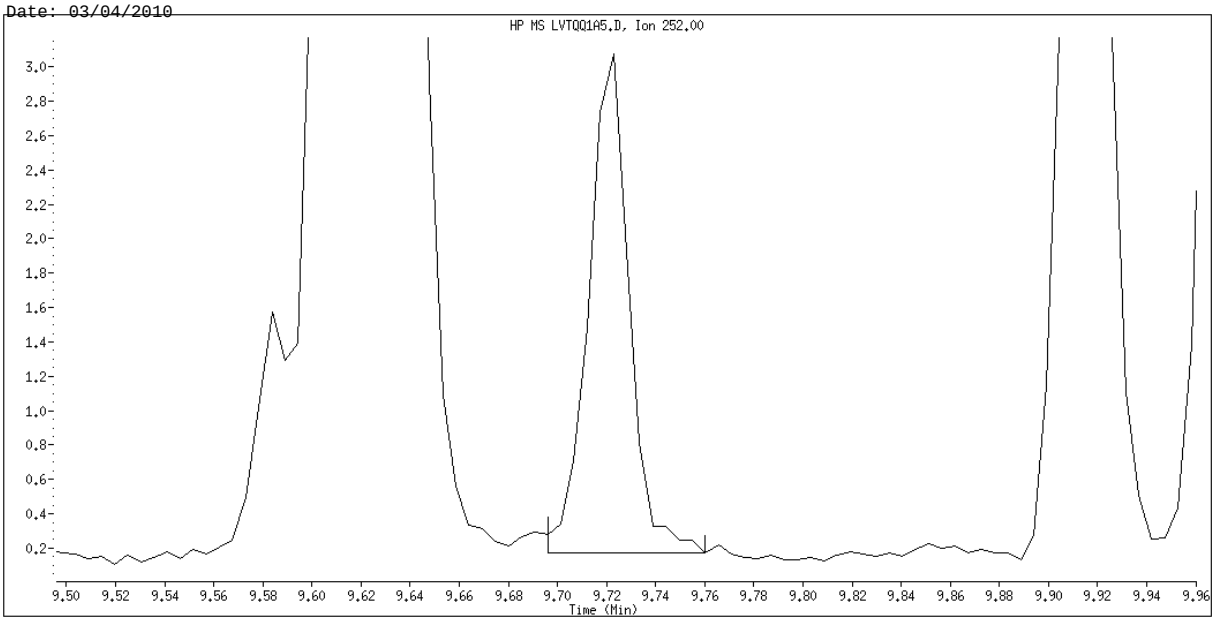
Original Integration



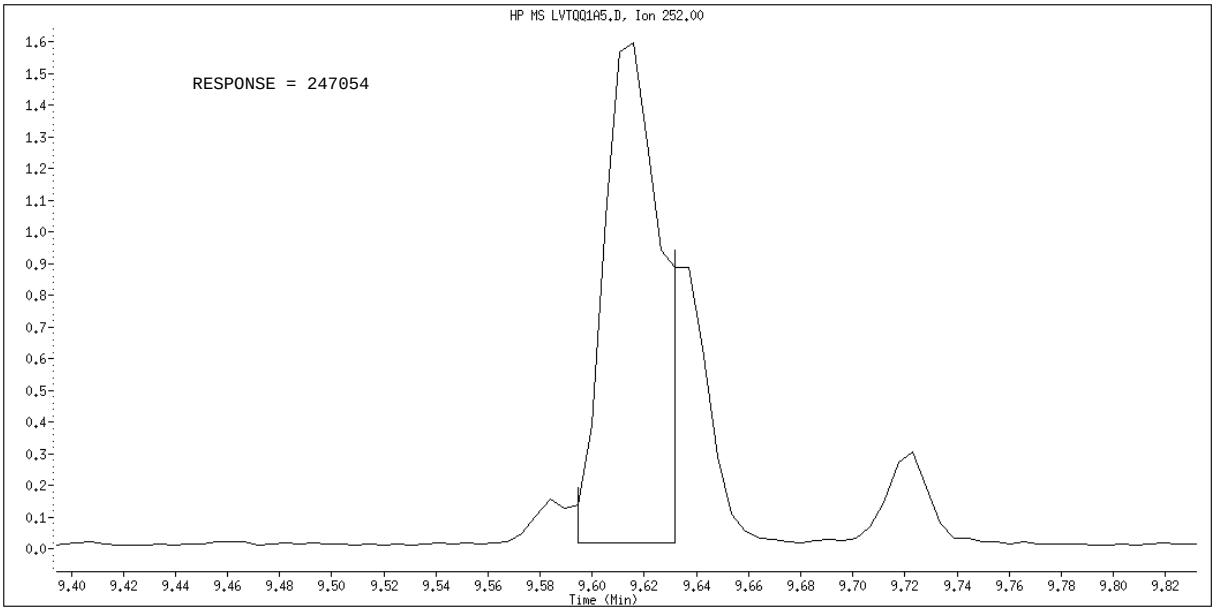
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: LVTQQ1A5.D
Inj. Date and Time: 02-MAR-2010 15:22
Instrument ID: a4hp7.i
Client ID: B12SS-036M-5038-SO
Compound Name: Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/04/2010



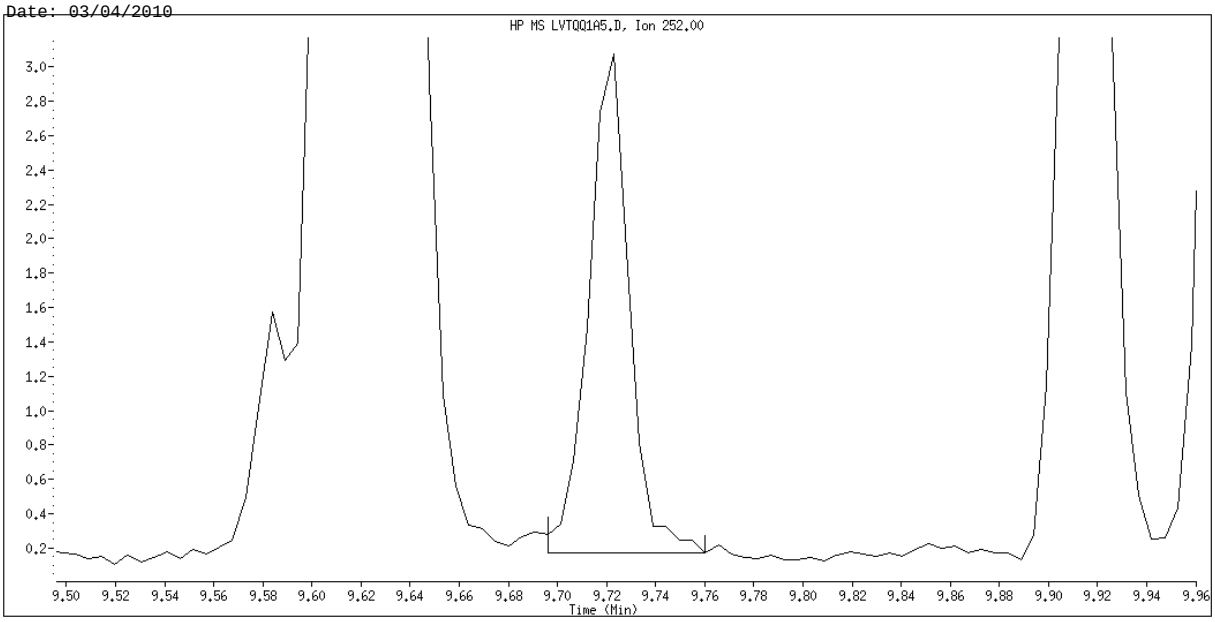
Original Integration



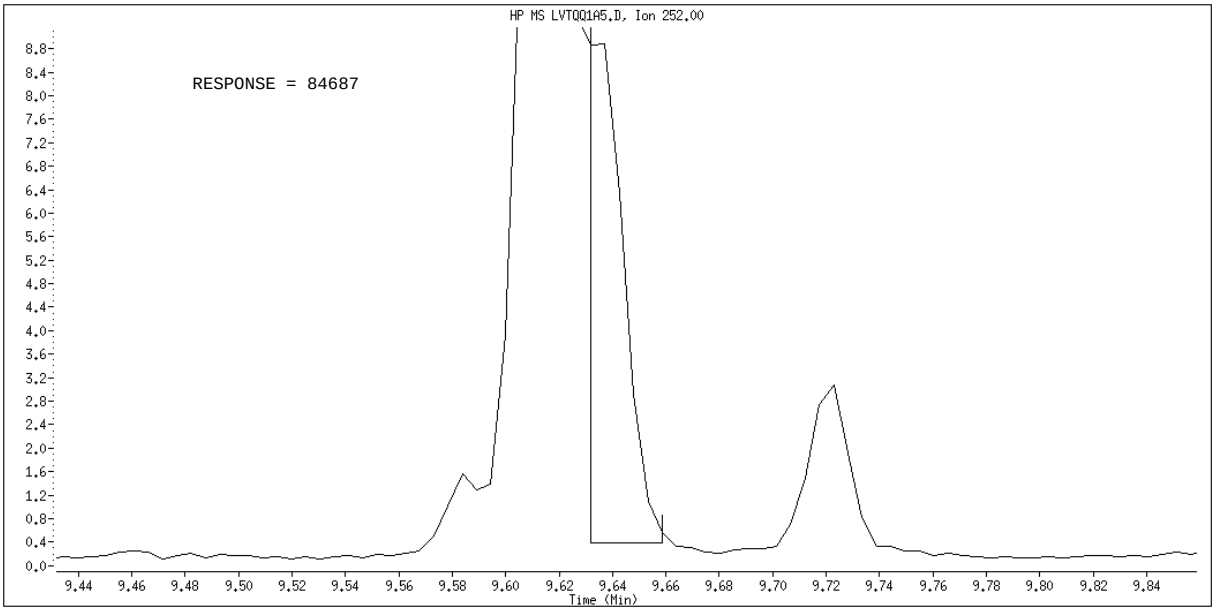
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: LVTQQ1A5.D
Inj. Date and Time: 02-MAR-2010 15:22
Instrument ID: a4hp7.i
Client ID: B12SS-036M-5038-SO
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/04/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Science Applications International Corp

Client Sample ID: B12SS-037M-5039-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B180429-002 **Work Order #...:** LVTQ11AG **Matrix.....:** SO
Date Sampled...: 02/16/10 14:17 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0054027
Dilution Factor: 1 **Initial Wgt/Vol:** 30.02 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 2.0 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	6.8	ug/kg	3.4
Acenaphthylene	ND	6.8	ug/kg	3.4
Anthracene	ND	6.8	ug/kg	3.4
Benzo(a)anthracene	ND	6.8	ug/kg	3.4
Benzo(b)fluoranthene	**6.5 J**	**6.8**	**ug/kg**	**3.4**
Benzo(k)fluoranthene	ND	6.8	ug/kg	3.4
Benzo(ghi)perylene	ND	6.8	ug/kg	3.4
Benzo(a)pyrene	ND	6.8	ug/kg	3.4
Chrysene	**7.2**	**6.8**	**ug/kg**	**1.1**
Dibenzo(a,h)anthracene	ND	6.8	ug/kg	3.4
Fluoranthene	**12**	**6.8**	**ug/kg**	**3.4**
Fluorene	ND	6.8	ug/kg	3.4
Indeno(1,2,3-cd)pyrene	ND	6.8	ug/kg	3.4
Naphthalene	**16**	**6.8**	**ug/kg**	**3.4**
Phenanthrene	**7.5**	**6.8**	**ug/kg**	**3.4**
Pyrene	**7.8**	**6.8**	**ug/kg**	**3.4**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	57	(45 - 105)
2-Fluorophenol	62	(35 - 105)
Phenol-d5	61	(40 - 100)
2,4,6-Tribromophenol	66	(35 - 125)
Nitrobenzene-d5	47	(35 - 100)
Terphenyl-d14	70	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LVTQ11AG.D
Lab Smp Id: lvtq11ag Client Smp ID: B12SS-037M-5039-SO
Inj Date : 02-MAR-2010 16:19
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lvtq11ag,00302a.b,8270C-625,1-pah.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 04-Mar-2010 10:09 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.020	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1	1,4-Dichlorobenzene-d4	152	3.491	3.470	(1.000)	261047	2.00000		(Q)
* 2	Naphthalene-d8	136	4.368	4.358	(1.000)	1127844	2.00000		
* 3	Acenaphthene-d10	164	5.631	5.625	(1.000)	660355	2.00000		
* 4	Phenanthrene-d10	188	6.716	6.711	(1.000)	1116513	2.00000		
* 5	Chrysene-d12	240	8.674	8.663	(1.000)	1489341	2.00000		
* 6	Perylene-d12	264	10.059	10.027	(1.000)	1414538	2.00000		(H)
51	Naphthalene	128	4.384	4.374	(1.004)	57736	0.11512	15.339	
62	2-Methylnaphthalene	142	4.871	4.866	(1.115)	27610	0.10181	13.566	
63	1-Methylnaphthalene	142	Compound Not Detected.						
70	2-Chloronaphthalene	162	Compound Not Detected.						
79	Acenaphthylene	152	Compound Not Detected.						
82	Acenaphthene	153	Compound Not Detected.						
86	Dibenzofuran	168	Compound Not Detected.						
94	Fluorene	166	Compound Not Detected.						
115	Phenanthrene	178	6.732	6.727	(1.002)	33153	0.05496	7.3235	
116	Anthracene	178	Compound Not Detected.						
123	Fluoranthene	202	7.615	7.599	(1.134)	51839	0.08485	11.305	
125	Pyrene	202	7.781	7.770	(0.897)	41792	0.05700	7.5944	

136 Benzo(a)Anthracene	228	Compound Not Detected.					
137 Chrysene	228	8.695	8.685 (1.002)		36068	0.05277	7.0314

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
141 Benzo(b)fluoranthene	252	9.599	9.610	(0.954)	33831	0.04747	6.3254(QMH)
142 Benzo(k)fluoranthene	252	Compound Not Detected.					
146 Benzo(a)pyrene	252	Compound Not Detected.					
149 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
151 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 154 Nitrobenzene-d5	82	3.860	3.844	(0.884)	472836	2.37081	315.90
$ 155 2-Fluorobiphenyl	172	5.122	5.117	(0.910)	1058079	2.82541	376.47
$ 156 Terphenyl-d14	244	7.856	7.845	(0.906)	1619452	3.50580	467.13
$ 157 Phenol-d5	99	3.272	3.181	(0.937)	894063	4.57790	609.98(H)
$ 158 2-Fluorophenol	112	2.764	2.603	(0.792)	694759	4.65554	620.32
$ 159 2,4,6-Tribromophenol	330	6.208	6.198	(1.103)	227354	4.92044	655.62
$ 186 2-Chlorophenol-d4	132	3.368	3.315	(0.965)	449653	2.93164	390.62
$ 187 1,2-Dichlorobenzene-d4	152	3.603	3.582	(1.032)	254045	2.42044	322.51

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

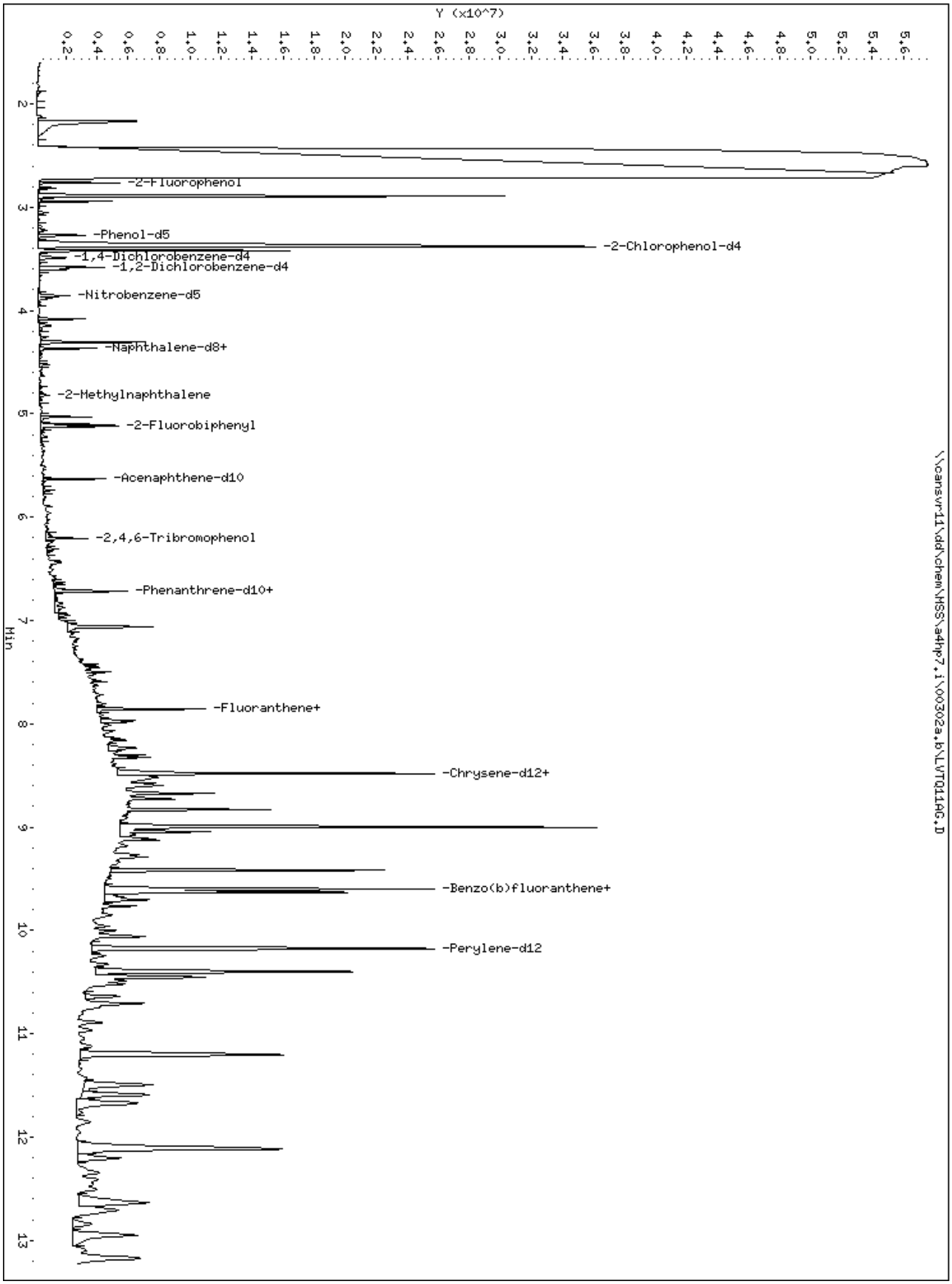
Instrument ID: a4hp7.i
Lab File ID: LVTQ11AG.D
Lab Smp Id: lvtq11ag
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Client Smp ID: B12SS-037M-5039-SO
Level: LOW
Sample Type: SOIL

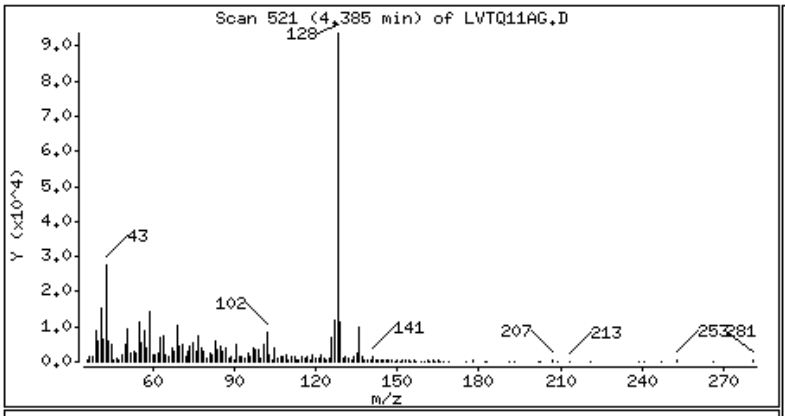
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	261047	-16.98
2 Naphthalene-d8	1302947	651474	2605894	1127844	-13.44
3 Acenaphthene-d10	667302	333651	1334604	660355	-1.04
4 Phenanthrene-d10	1052286	526143	2104572	1116513	6.10
5 Chrysene-d12	1252372	626186	2504744	1489341	18.92
6 Perylene-d12	1122003	561002	2244006	1414538	26.07

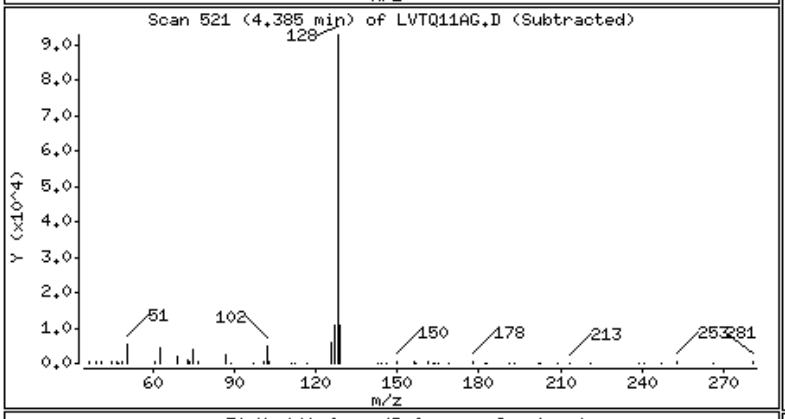
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.49	0.62
2 Naphthalene-d8	4.36	3.86	4.86	4.37	0.24
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.09
4 Phenanthrene-d10	6.71	6.21	7.21	6.72	0.08
5 Chrysene-d12	8.66	8.16	9.16	8.67	0.12
6 Perylene-d12	10.03	9.53	10.53	10.06	0.32

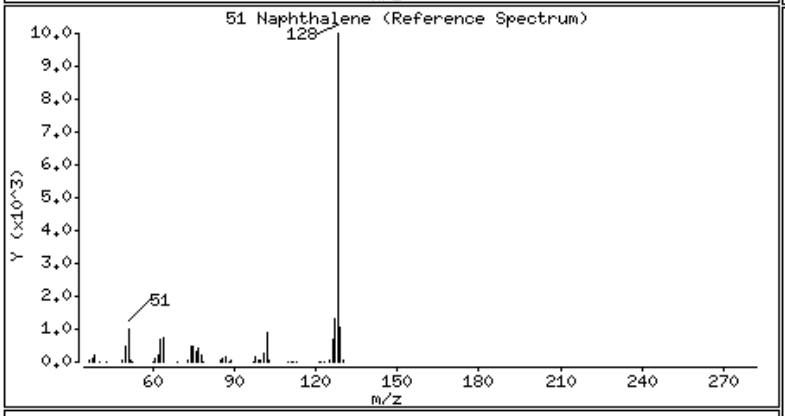
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

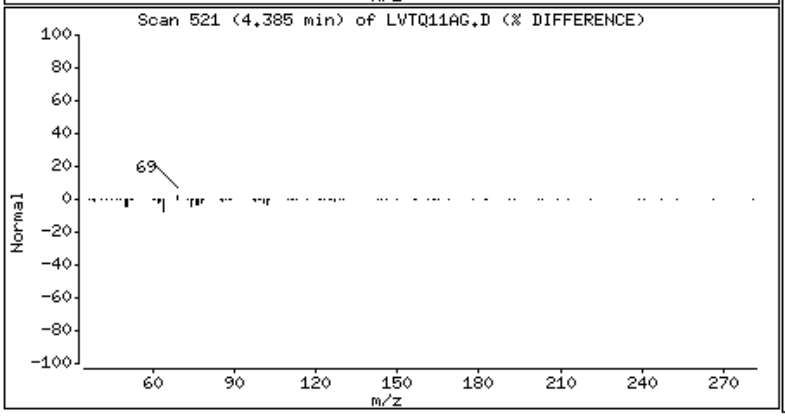

Y (x10^7)
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6
2
3
4
5
6
7
8
9
10
11
12
13
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8+
-2-Methylnaphthalene
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-Fluoranthene+
-Chrysene-d12+
-Benzo(b)fluoranthene+
-Perylene-d12
\\cansvr11\dd\chem\HSS\a4hp7.i\00302a.b\LVTQ114G.D

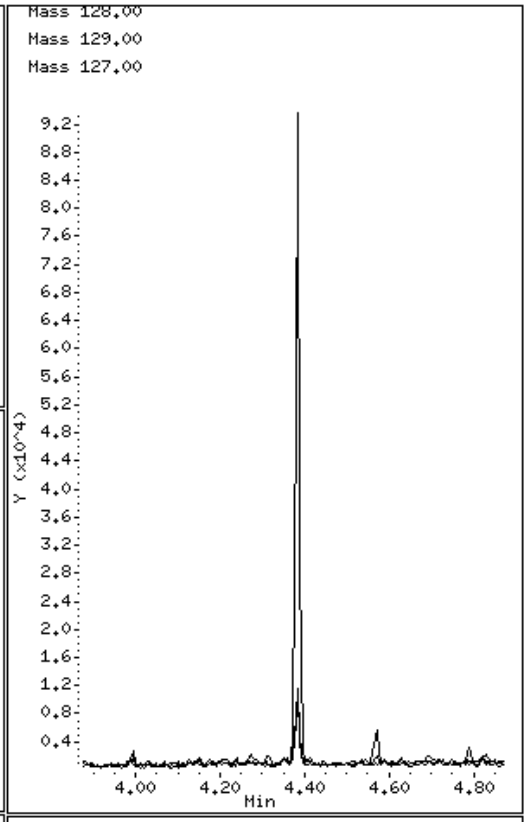
51 Naphthalene

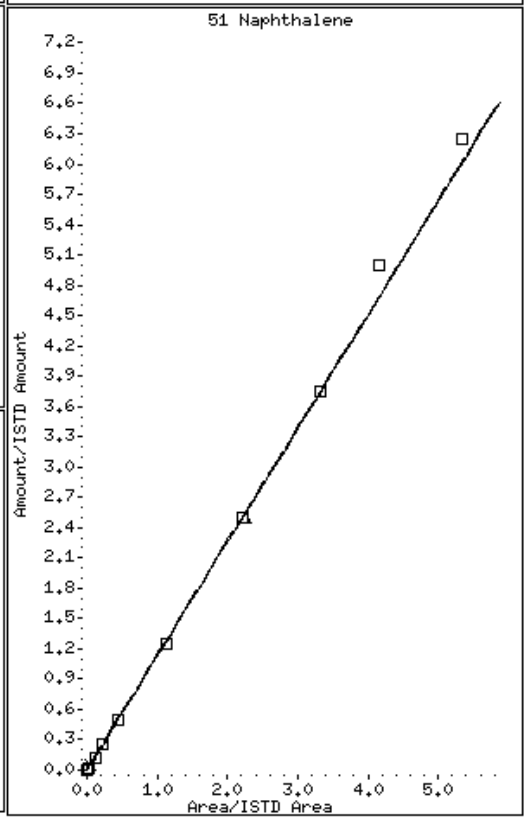




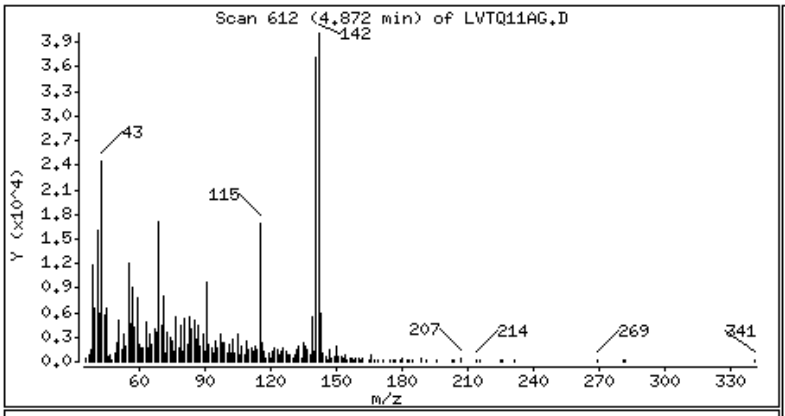


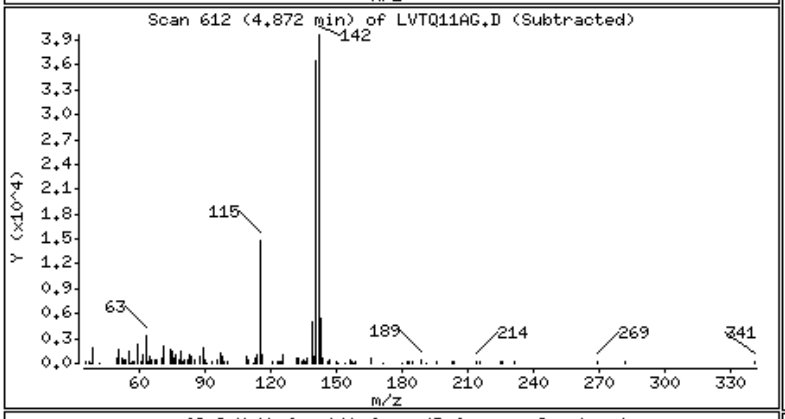


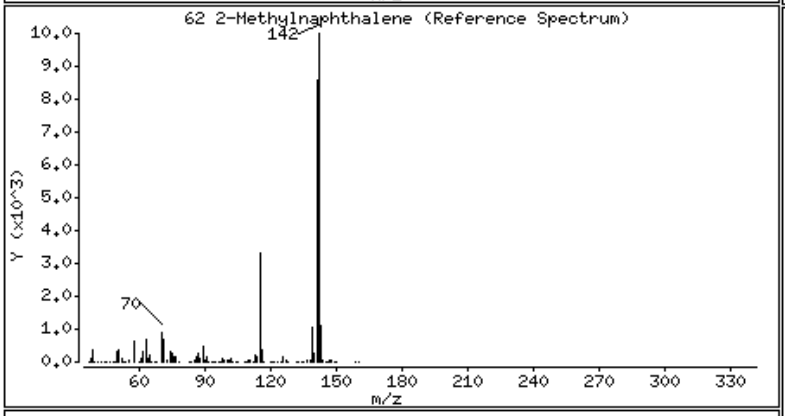


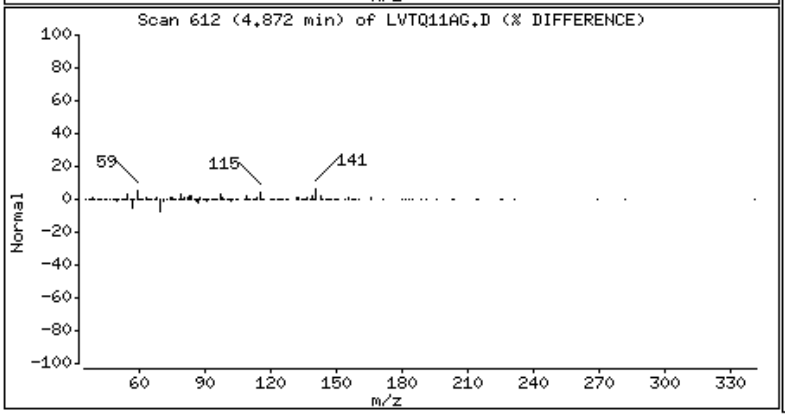


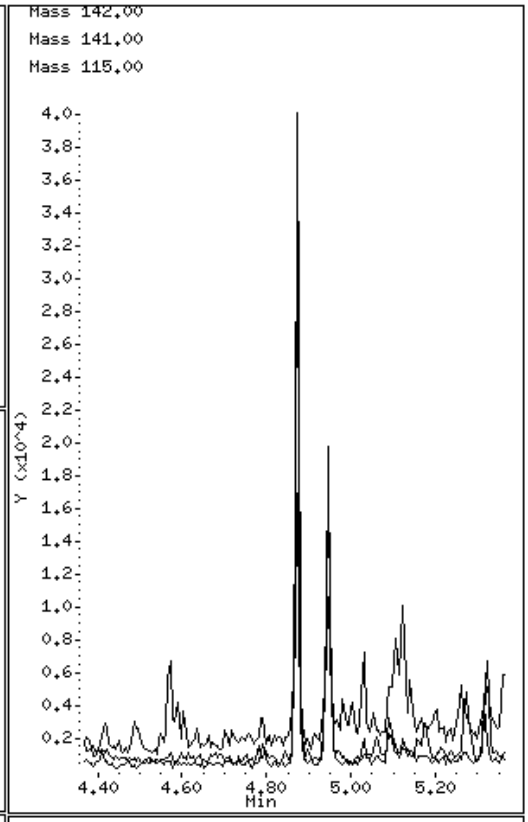
62 2-Methylnaphthalene

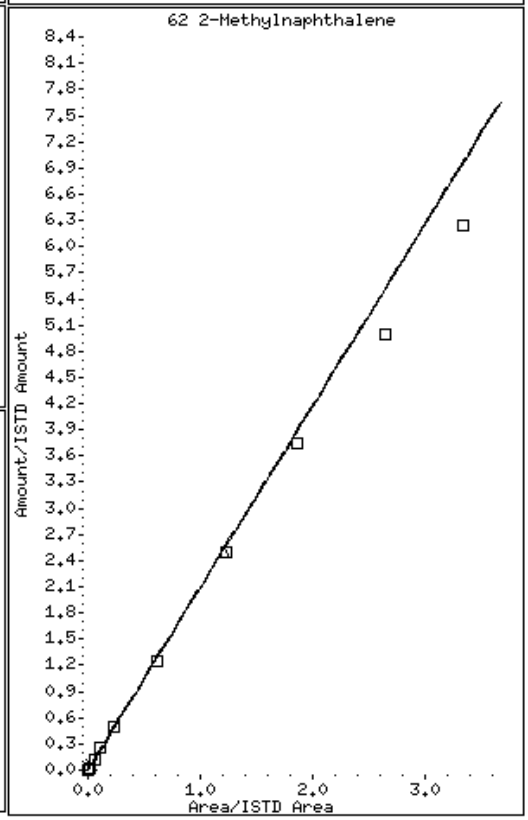




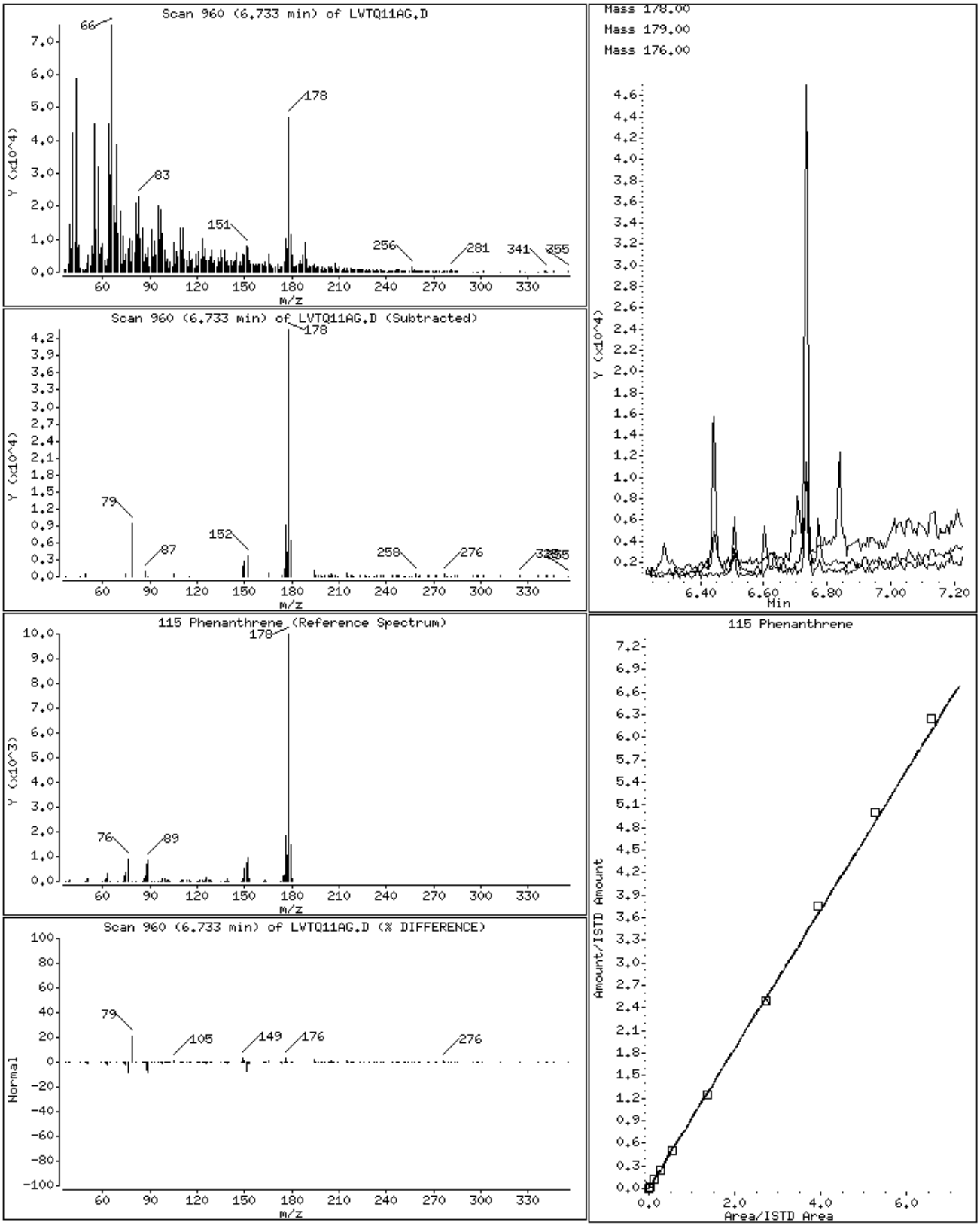




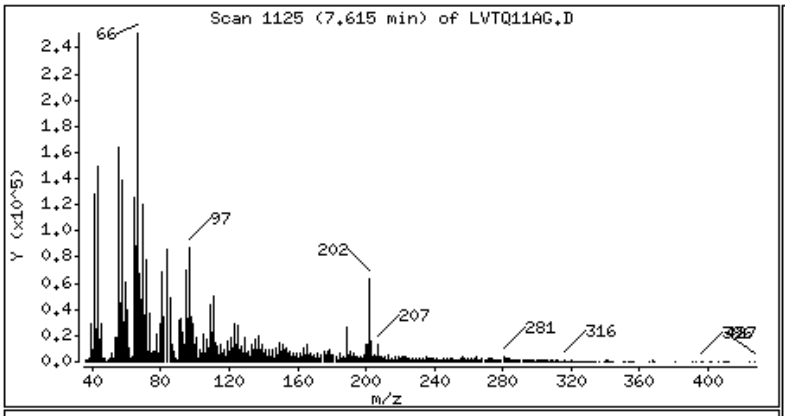


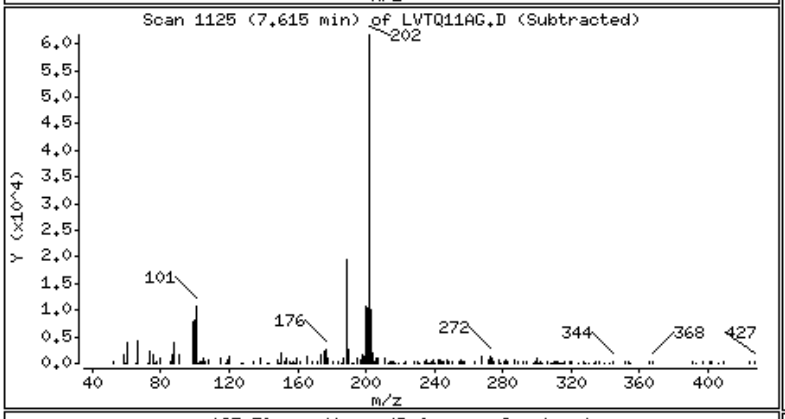


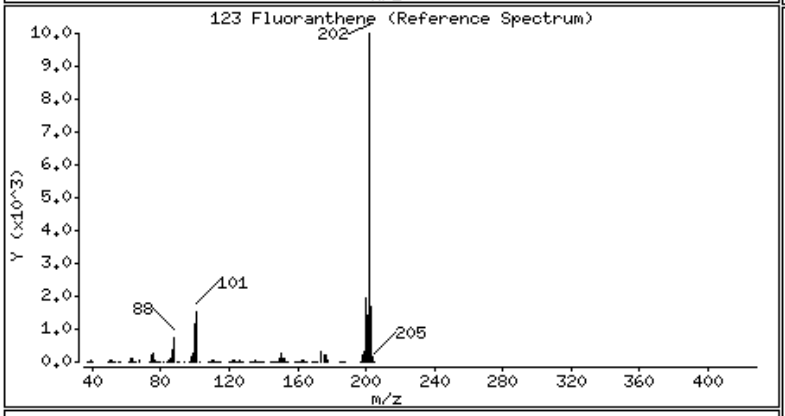
115 Phenanthrene

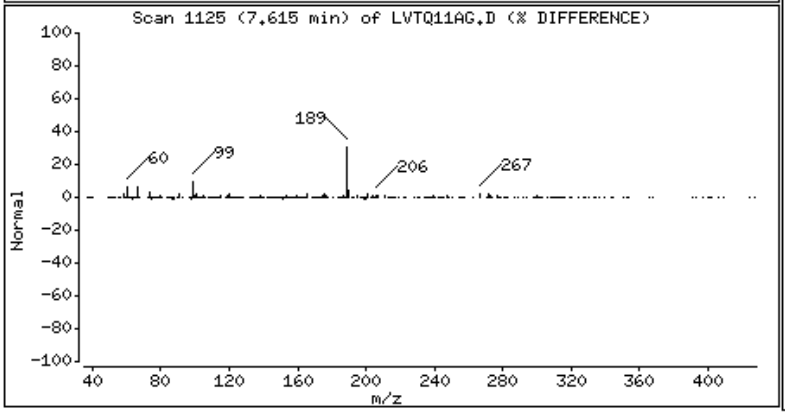


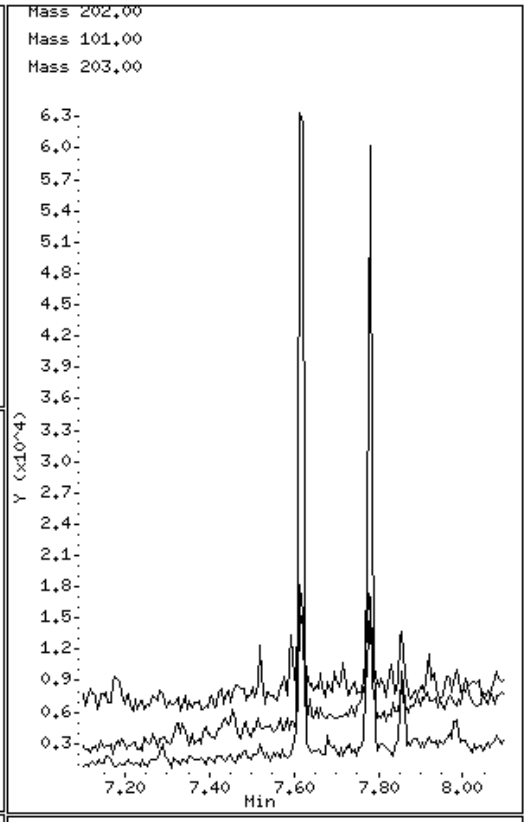
123 Fluoranthene

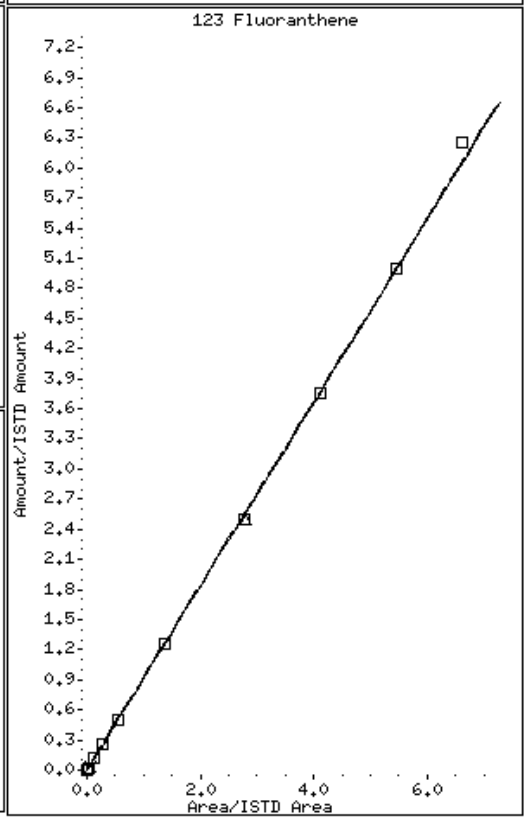




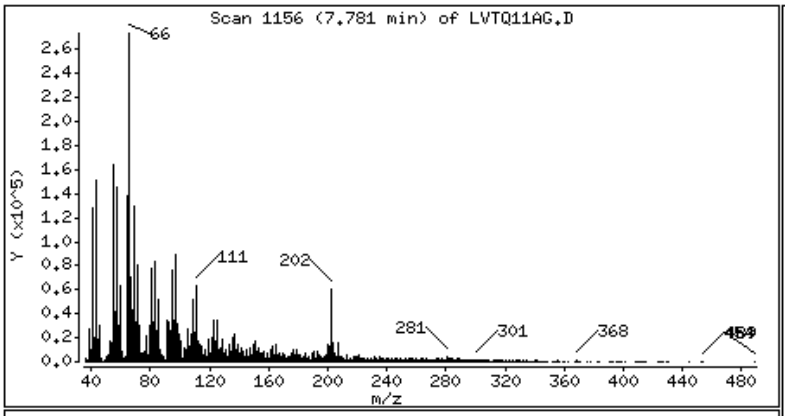


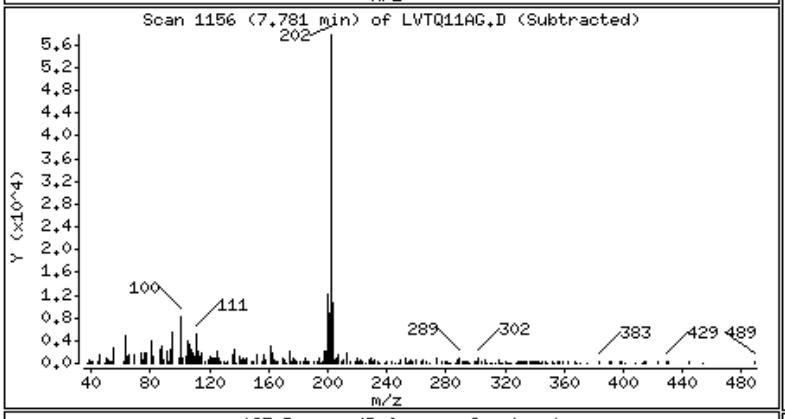


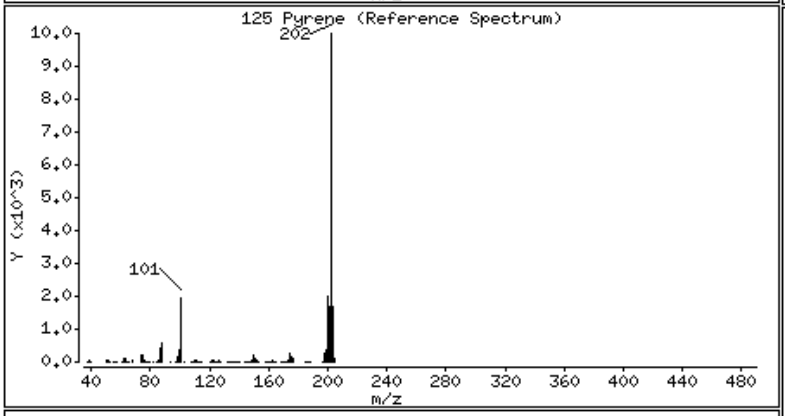


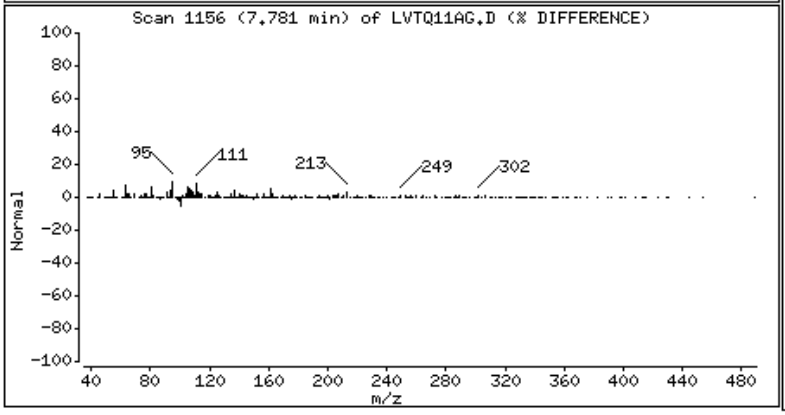


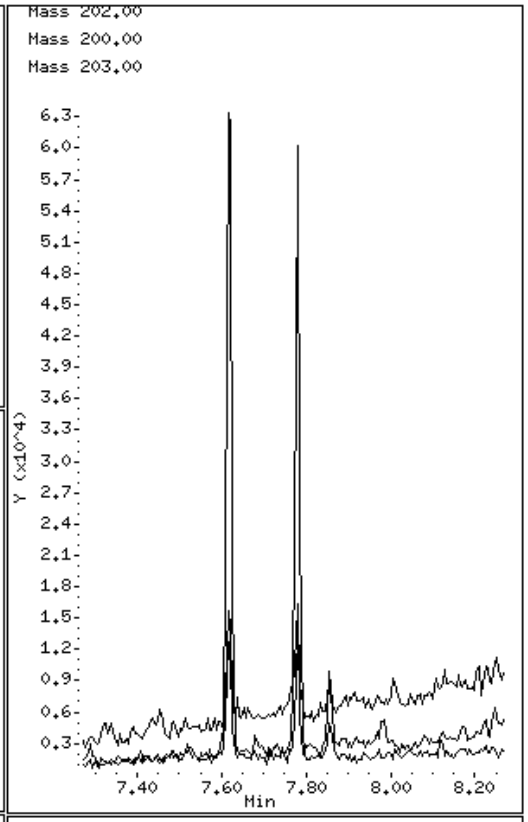
125 Pyrene

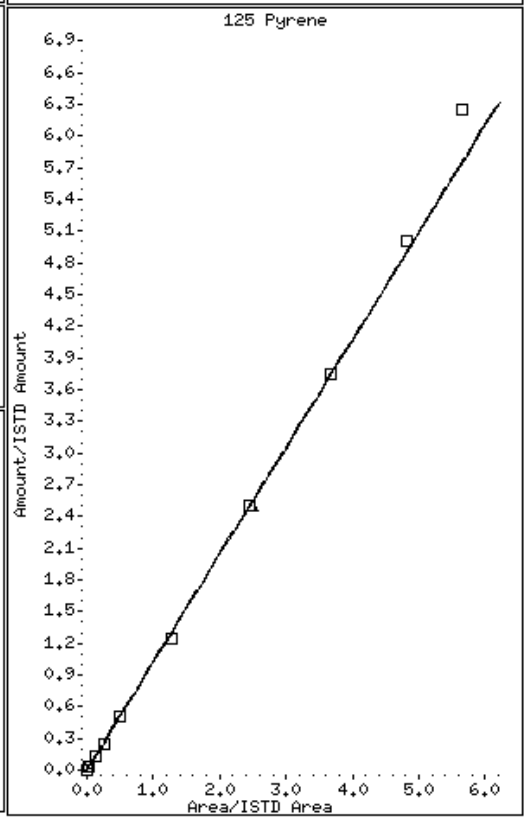

Scan 1156 (7.781 min) of LVTQ11AG.D
Y (x10^5)
m/z
66
111
202
281
301
368
454


Scan 1156 (7.781 min) of LVTQ11AG.D (Subtracted)
Y (x10^4)
m/z
202
100
111
289
302
383
429
489

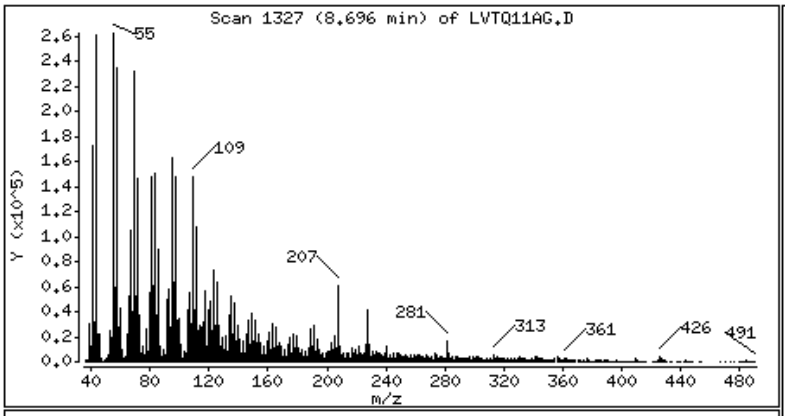

125 Pyrene (Reference Spectrum)
Y (x10^3)
m/z
202
101

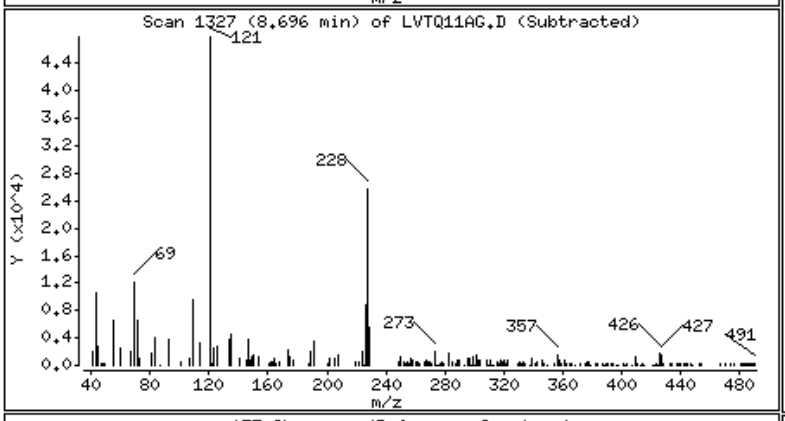

Scan 1156 (7.781 min) of LVTQ11AG.D (% DIFFERENCE)
Normal
m/z
95
111
213
249
302

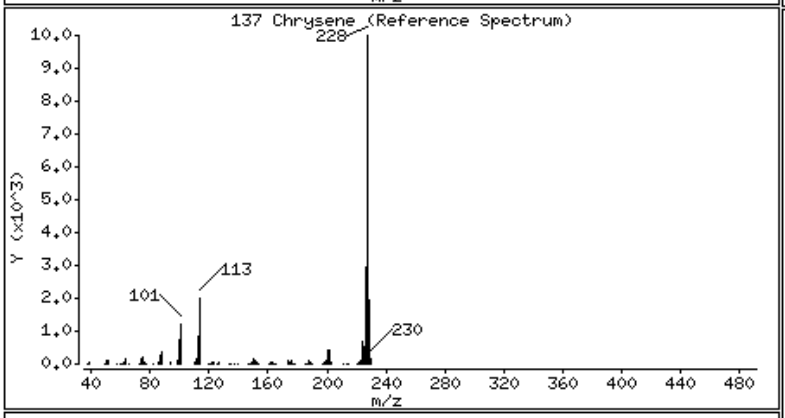

Mass 202.00
Mass 200.00
Mass 203.00
Y (x10^4)
Min

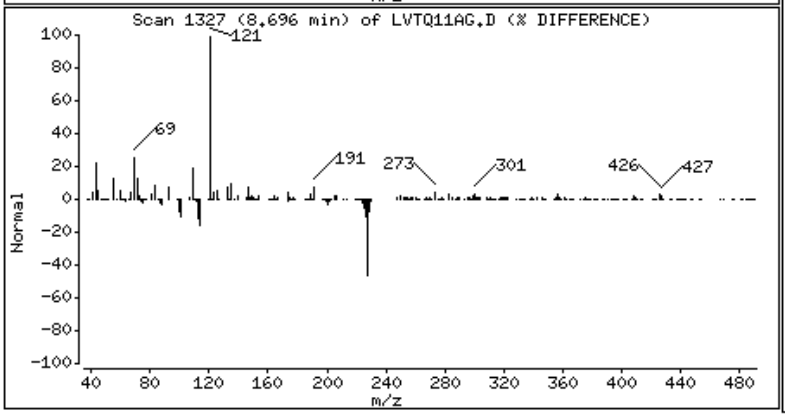

125 Pyrene
Amount/ISTD Amount
Area/ISTD Area

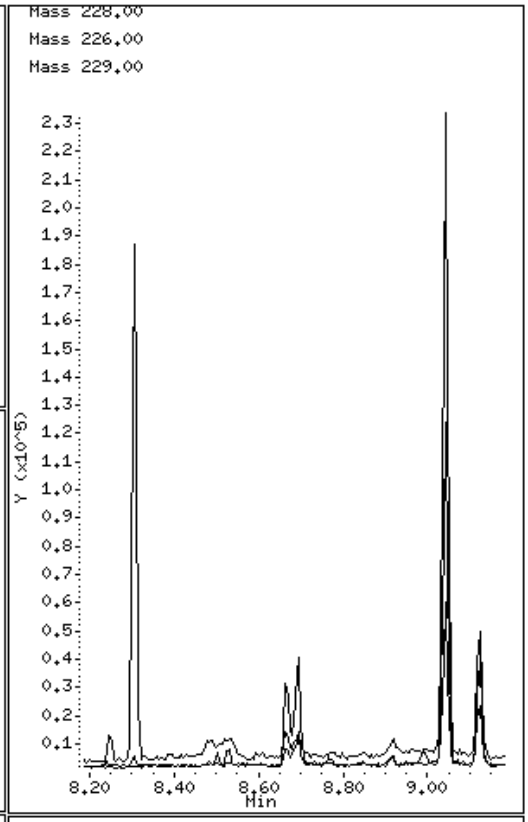
137 Chrysene

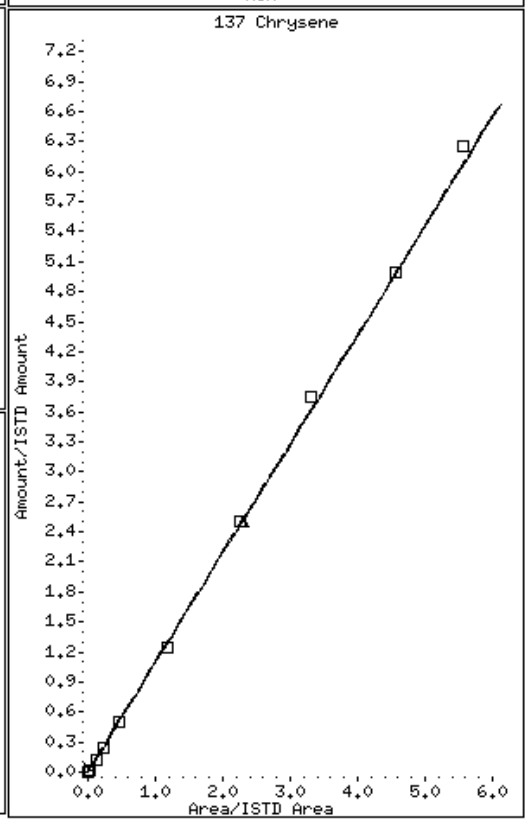




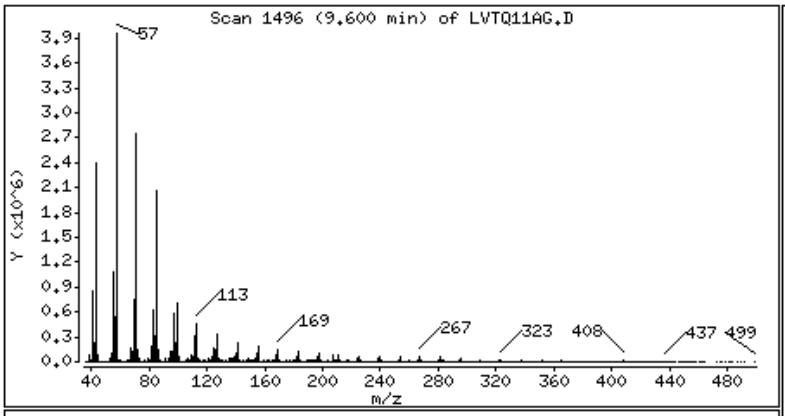


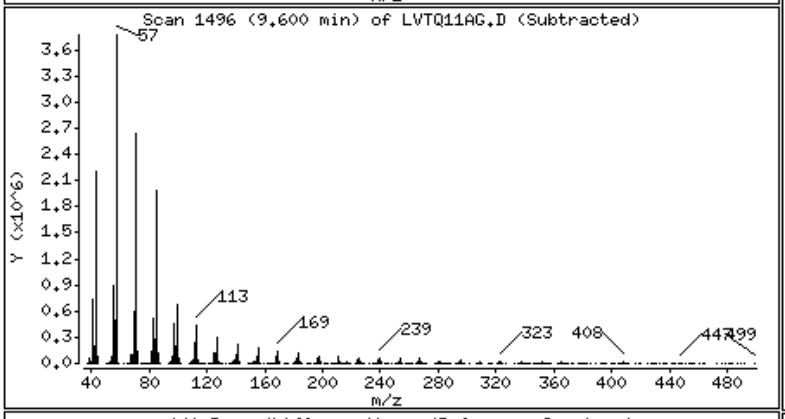


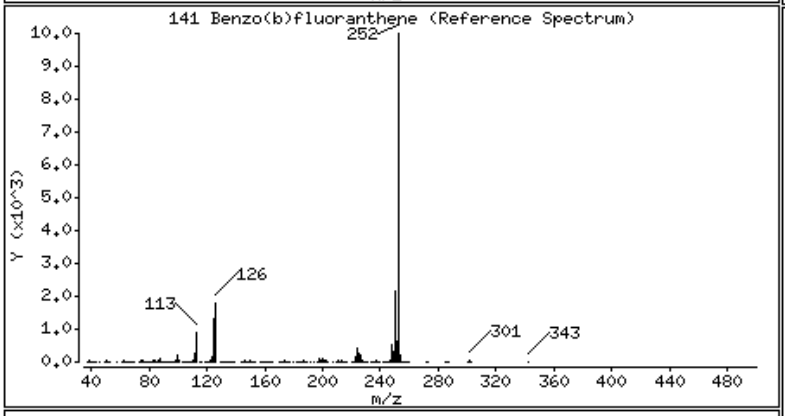


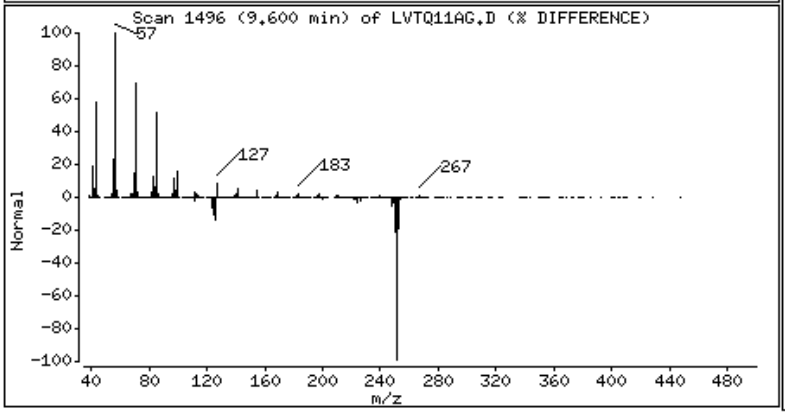


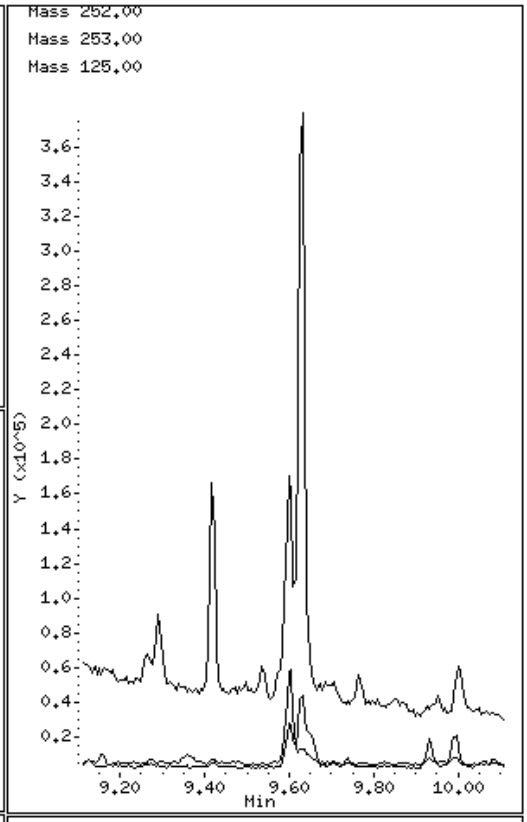
141 Benzo(b)fluoranthene

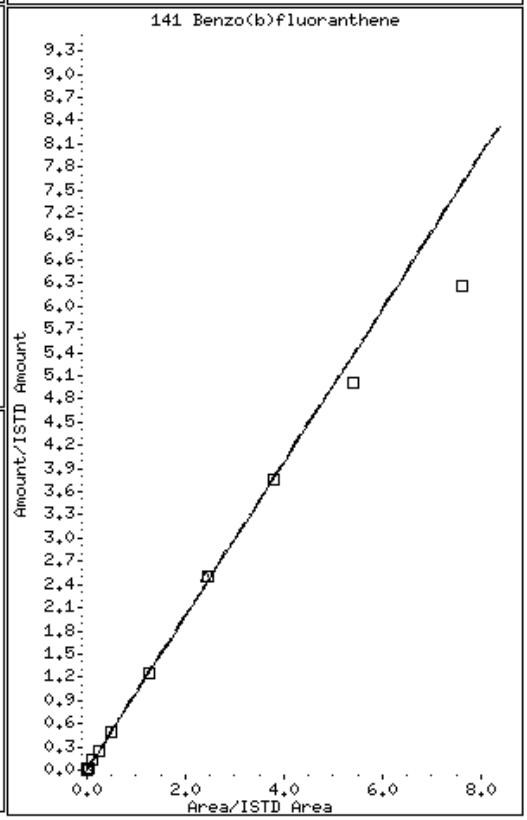




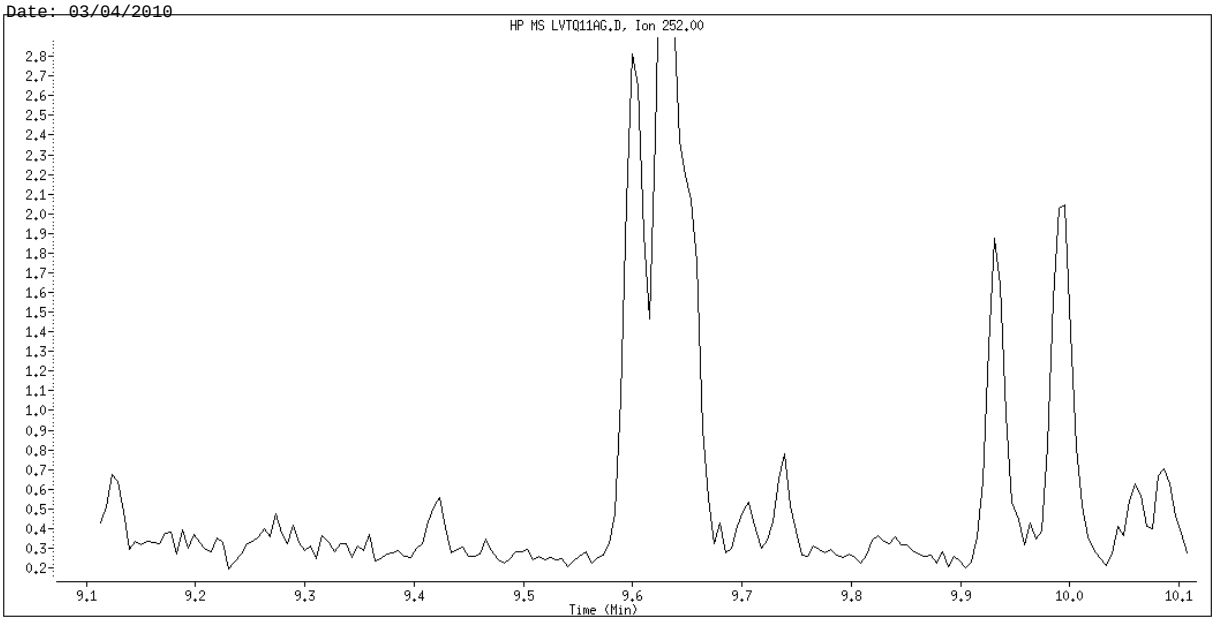




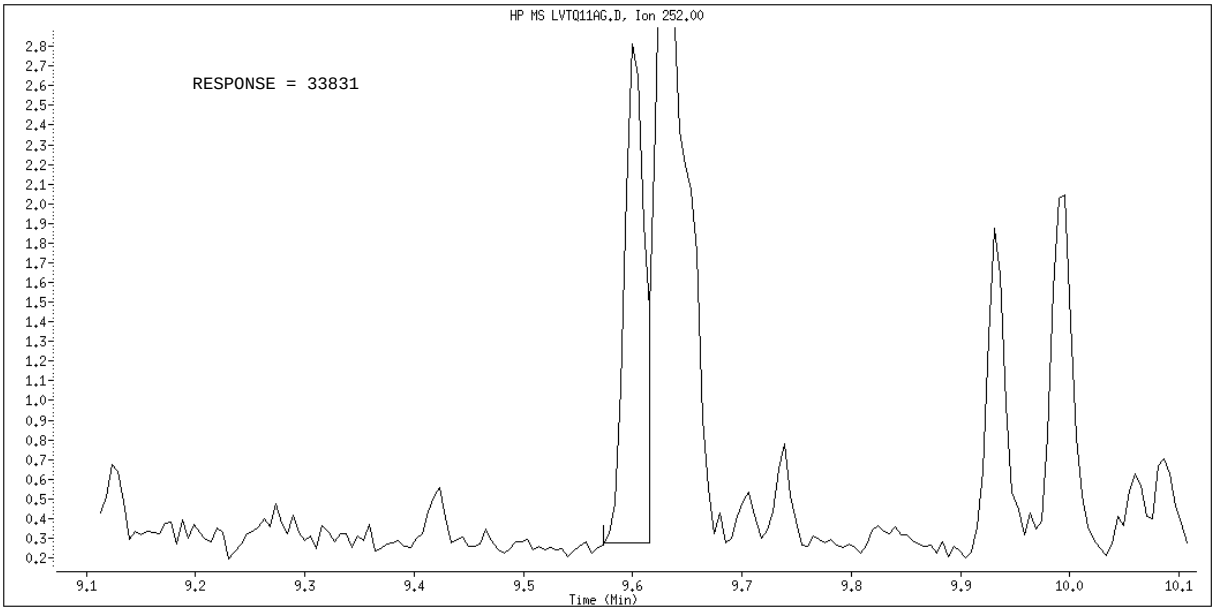




Data File Name: LVTQ11AG.D
Inj. Date and Time: 02-MAR-2010 16:19
Instrument ID: a4hp7.i
Client ID: B12SS-037M-5039-SO
Compound Name: Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/04/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Unknown

Science Applications International Corp

Client Sample ID: B12SS-037M-6049-FD

GC/MS Semivolatiles

Lot-Sample #...: A0B180429-003 **Work Order #...:** LVTQ21AG **Matrix.....:** SO
Date Sampled...: 02/16/10 14:17 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0054027
Dilution Factor: 1 **Initial Wgt/Vol:** 30.2 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 2.0 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	6.8	ug/kg	3.4
Acenaphthylene	ND	6.8	ug/kg	3.4
Anthracene	ND	6.8	ug/kg	3.4
Benzo(a)anthracene	ND	6.8	ug/kg	3.4
Benzo(b)fluoranthene	ND	6.8	ug/kg	3.4
Benzo(k)fluoranthene	ND	6.8	ug/kg	3.4
Benzo(ghi)perylene	ND	6.8	ug/kg	3.4
Benzo(a)pyrene	ND	6.8	ug/kg	3.4
Chrysene	**7.6**	**6.8**	**ug/kg**	**1.1**
Dibenzo(a,h)anthracene	ND	6.8	ug/kg	3.4
Fluoranthene	**12**	**6.8**	**ug/kg**	**3.4**
Fluorene	ND	6.8	ug/kg	3.4
Indeno(1,2,3-cd)pyrene	ND	6.8	ug/kg	3.4
Naphthalene	**14**	**6.8**	**ug/kg**	**3.4**
Phenanthrene	**7.0**	**6.8**	**ug/kg**	**3.4**
Pyrene	**8.1**	**6.8**	**ug/kg**	**3.4**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	56	(45 - 105)
2-Fluorophenol	63	(35 - 105)
Phenol-d5	60	(40 - 100)
2,4,6-Tribromophenol	64	(35 - 125)
Nitrobenzene-d5	48	(35 - 100)
Terphenyl-d14	70	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LVTQ21AG.D
Lab Smp Id: lvtq21ag Client Smp ID: B12SS-037M-6049-FD
Inj Date : 02-MAR-2010 16:38
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lvtq21ag,00302a.b,8270C-625,1-pah.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 04-Mar-2010 10:09 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.486	3.470	(1.000)	190632	2.00000		(Q)
* 2 Naphthalene-d8	136	4.368	4.358	(1.000)	849205	2.00000		
* 3 Acenaphthene-d10	164	5.636	5.625	(1.000)	521685	2.00000		
* 4 Phenanthrene-d10	188	6.716	6.711	(1.000)	882783	2.00000		
* 5 Chrysene-d12	240	8.674	8.663	(1.000)	1178224	2.00000		
* 6 Perylene-d12	264	10.054	10.027	(1.000)	1114821	2.00000		(H)
51 Naphthalene	128	4.384	4.374	(1.004)	39828	0.10547	13.969	
62 2-Methylnaphthalene	142	4.876	4.866	(1.116)	19263	0.09434	12.495	
63 1-Methylnaphthalene	142	Compound Not Detected.						
70 2-Chloronaphthalene	162	Compound Not Detected.						
79 Acenaphthylene	152	Compound Not Detected.						
82 Acenaphthene	153	Compound Not Detected.						
86 Dibenzofuran	168	Compound Not Detected.						
94 Fluorene	166	Compound Not Detected.						
115 Phenanthrene	178	6.738	6.727	(1.003)	24774	0.05195	6.8802	
116 Anthracene	178	Compound Not Detected.						
123 Fluoranthene	202	7.620	7.599	(1.135)	41940	0.08682	11.499	
125 Pyrene	202	7.781	7.770	(0.897)	34559	0.05958	7.8910	

136 Benzo(a)Anthracene	228	Compound Not Detected.					
137 Chrysene	228	8.690	8.685 (1.002)		30402	0.05623	7.4472
141 Benzo(b)fluoranthene	252	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
142 Benzo(k)fluoranthene	252	Compound Not Detected.					
146 Benzo(a)pyrene	252	Compound Not Detected.					
149 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
151 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 154 Nitrobenzene-d5	82	3.860	3.844	(0.884)	363421	2.42009	320.54
$ 155 2-Fluorobiphenyl	172	5.122	5.117	(0.909)	829568	2.80404	371.40
$ 156 Terphenyl-d14	244	7.855	7.845	(0.906)	1271096	3.47827	460.70
$ 157 Phenol-d5	99	3.245	3.181	(0.931)	646218	4.53107	600.14(H)
$ 158 2-Fluorophenol	112	2.748	2.603	(0.788)	516801	4.74222	628.11
$ 159 2,4,6-Tribromophenol	330	6.208	6.198	(1.102)	175275	4.80165	635.98
$ 186 2-Chlorophenol-d4	132	3.357	3.315	(0.963)	553932	4.94553	655.04
$ 187 1,2-Dichlorobenzene-d4	152	3.598	3.582	(1.032)	182123	2.37613	314.72

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

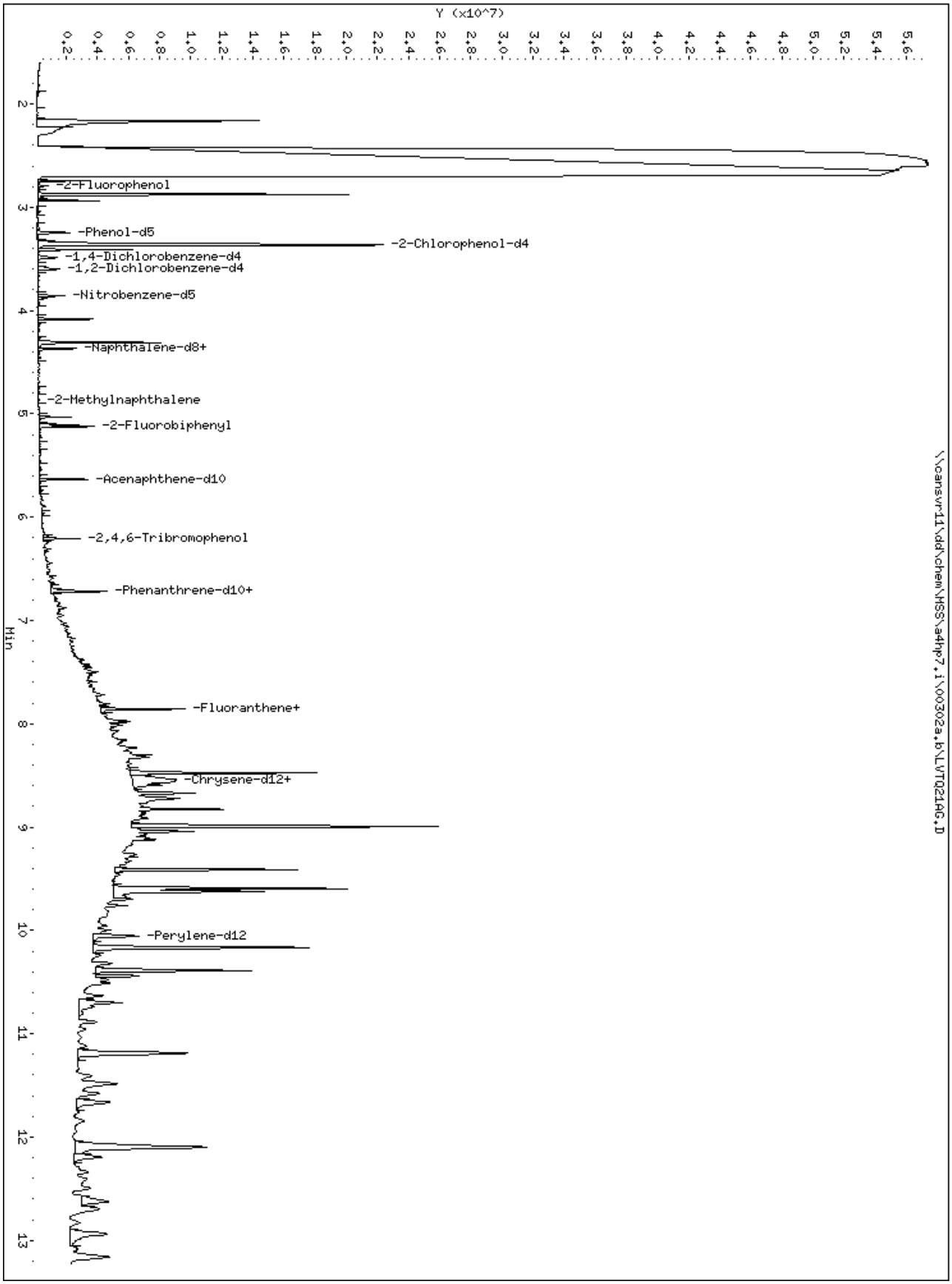
Instrument ID: a4hp7.i
Lab File ID: LVTQ21AG.D
Lab Smp Id: lvtq21ag
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Client Smp ID: B12SS-037M-6049-FD
Level: LOW
Sample Type: SOIL

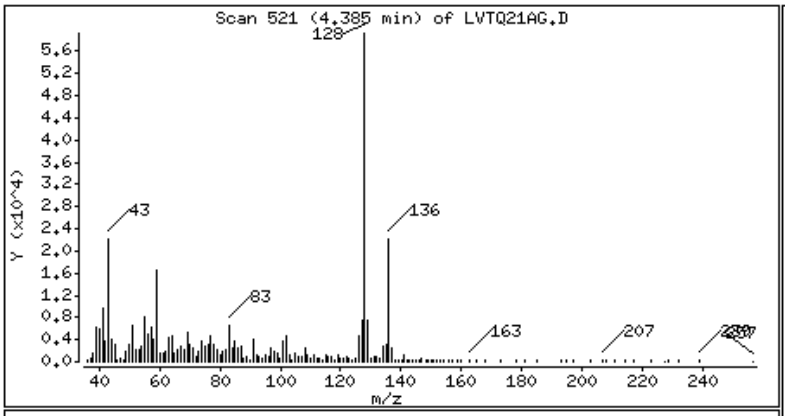
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	190632	-39.37
2 Naphthalene-d8	1302947	651474	2605894	849205	-34.82
3 Acenaphthene-d10	667302	333651	1334604	521685	-21.82
4 Phenanthrene-d10	1052286	526143	2104572	882783	-16.11
5 Chrysene-d12	1252372	626186	2504744	1178224	-5.92
6 Perylene-d12	1122003	561002	2244006	1114821	-0.64

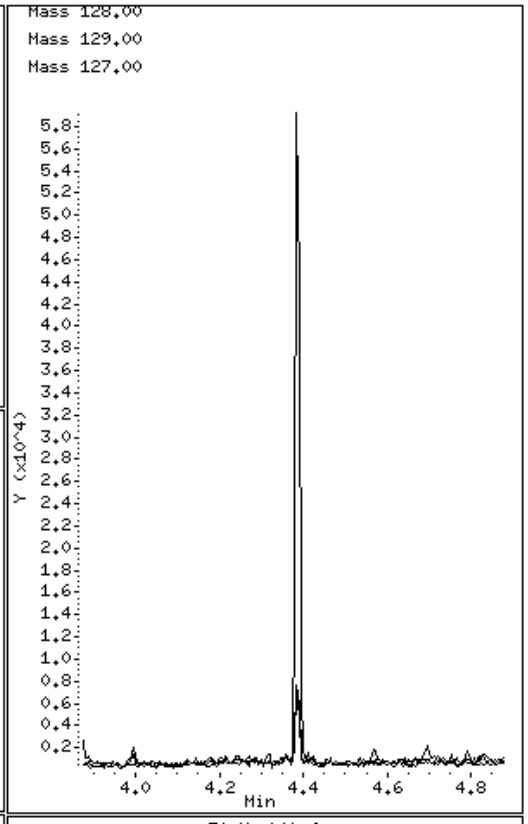
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.49	0.46
2 Naphthalene-d8	4.36	3.86	4.86	4.37	0.24
3 Acenaphthene-d10	5.63	5.13	6.13	5.64	0.19
4 Phenanthrene-d10	6.71	6.21	7.21	6.72	0.08
5 Chrysene-d12	8.66	8.16	9.16	8.67	0.12
6 Perylene-d12	10.03	9.53	10.53	10.05	0.27

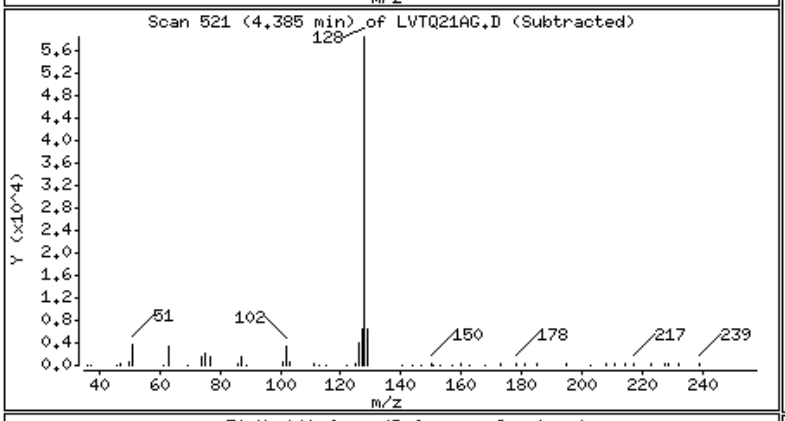
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

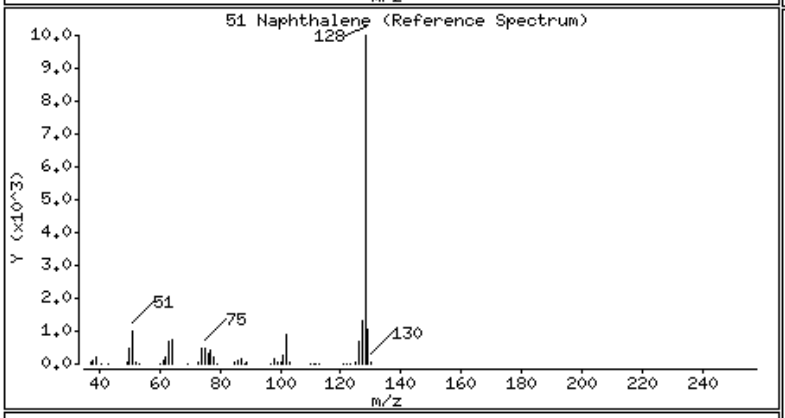

Y (x10^7)
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6
2
3
4
5
6
7
8
9
10
11
12
13
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8+
-2-Methylnaphthalene
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-Fluoranthene+
-Chrysene-d12+
-Perylene-d12
\\cansvr11\dd\chem\HSS\a4hp7.i\00302a.b\LVTQ210C.D

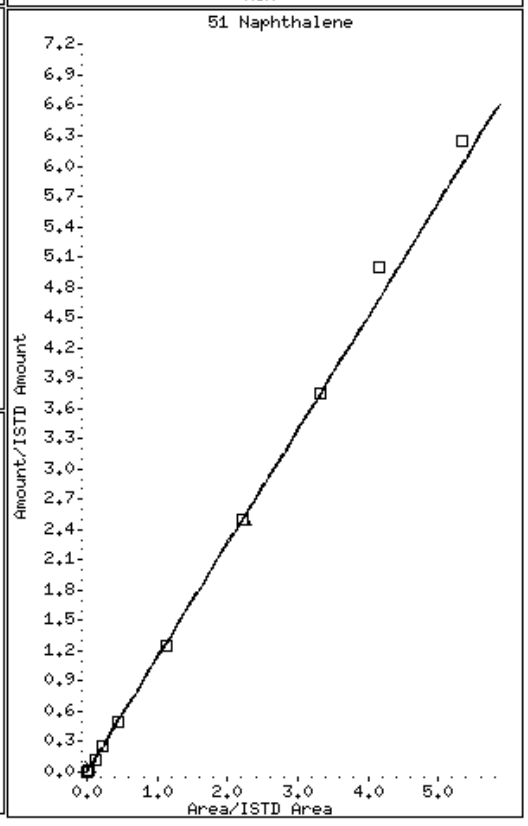
51 Naphthalene

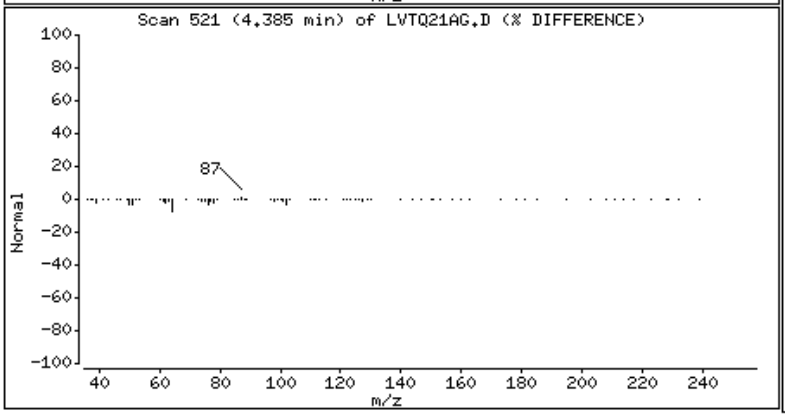




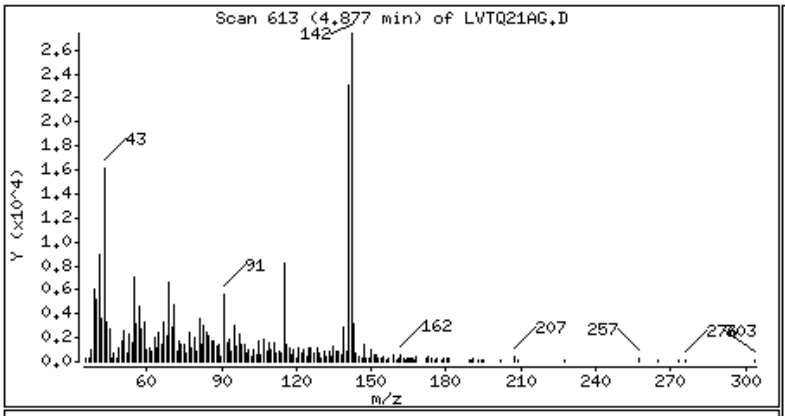


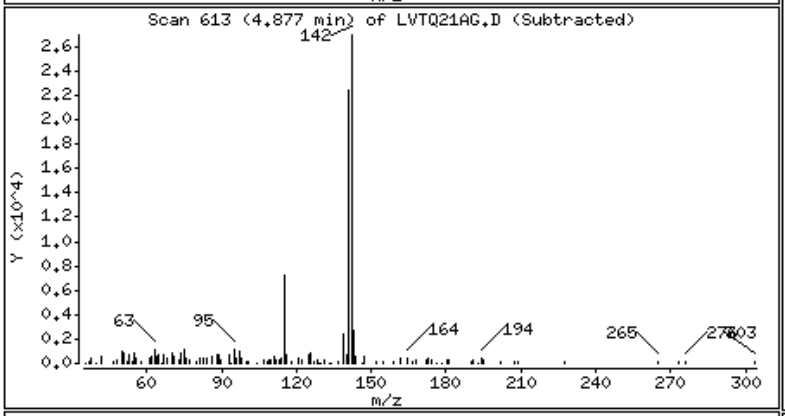


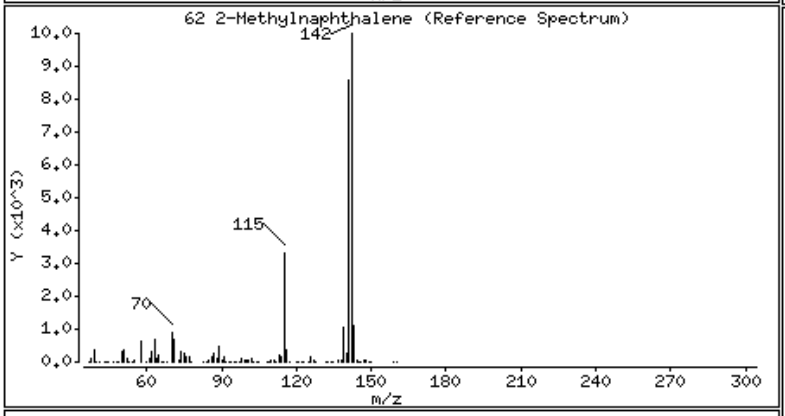


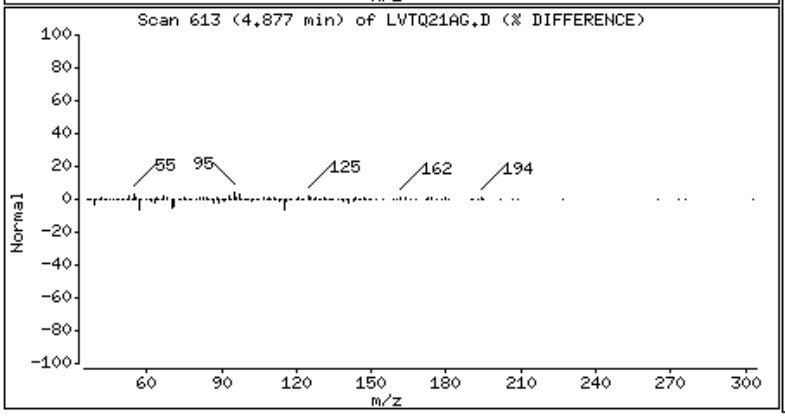


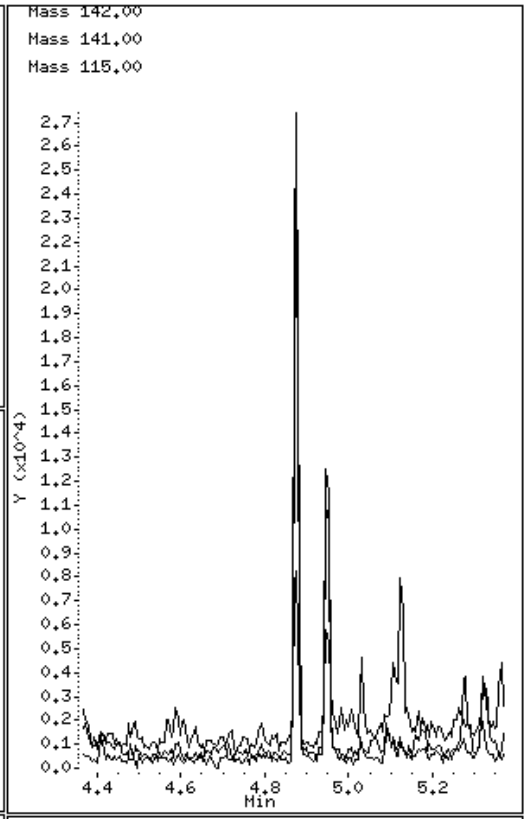
62 2-Methylnaphthalene

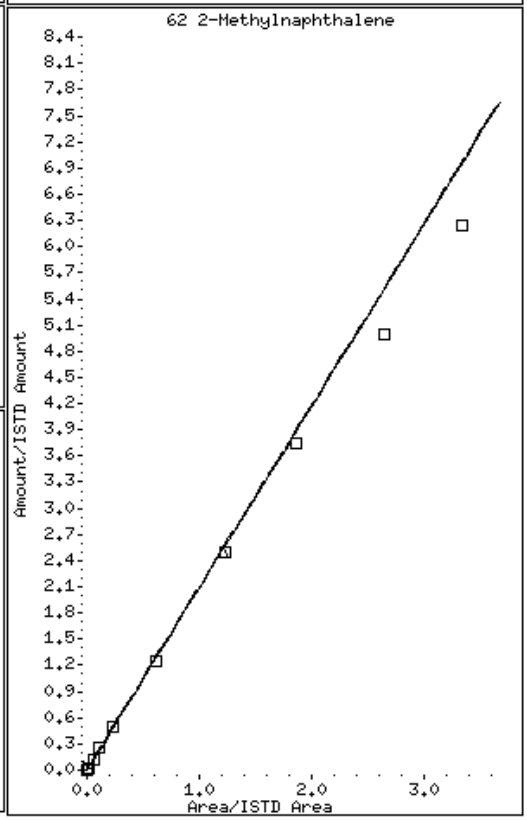




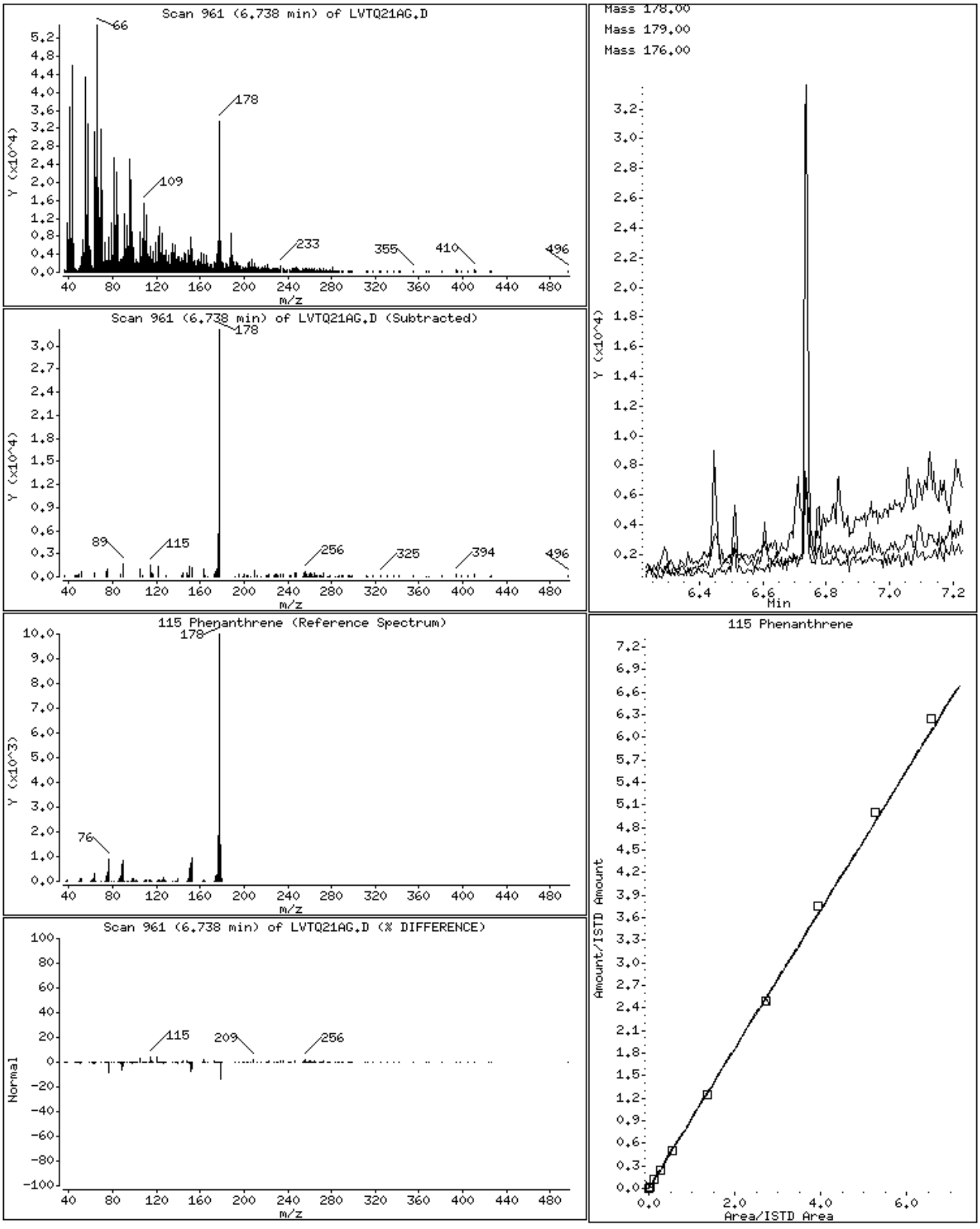




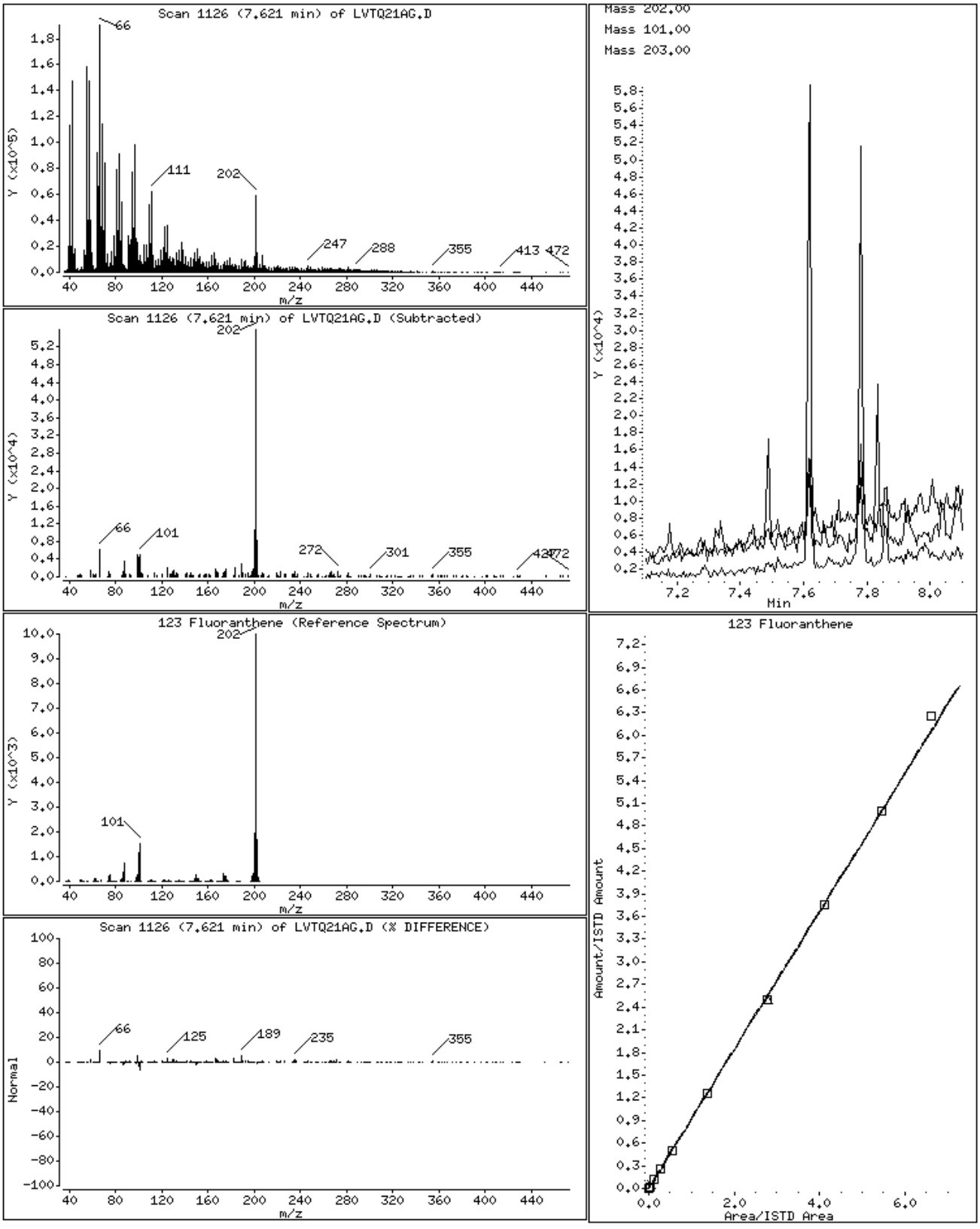




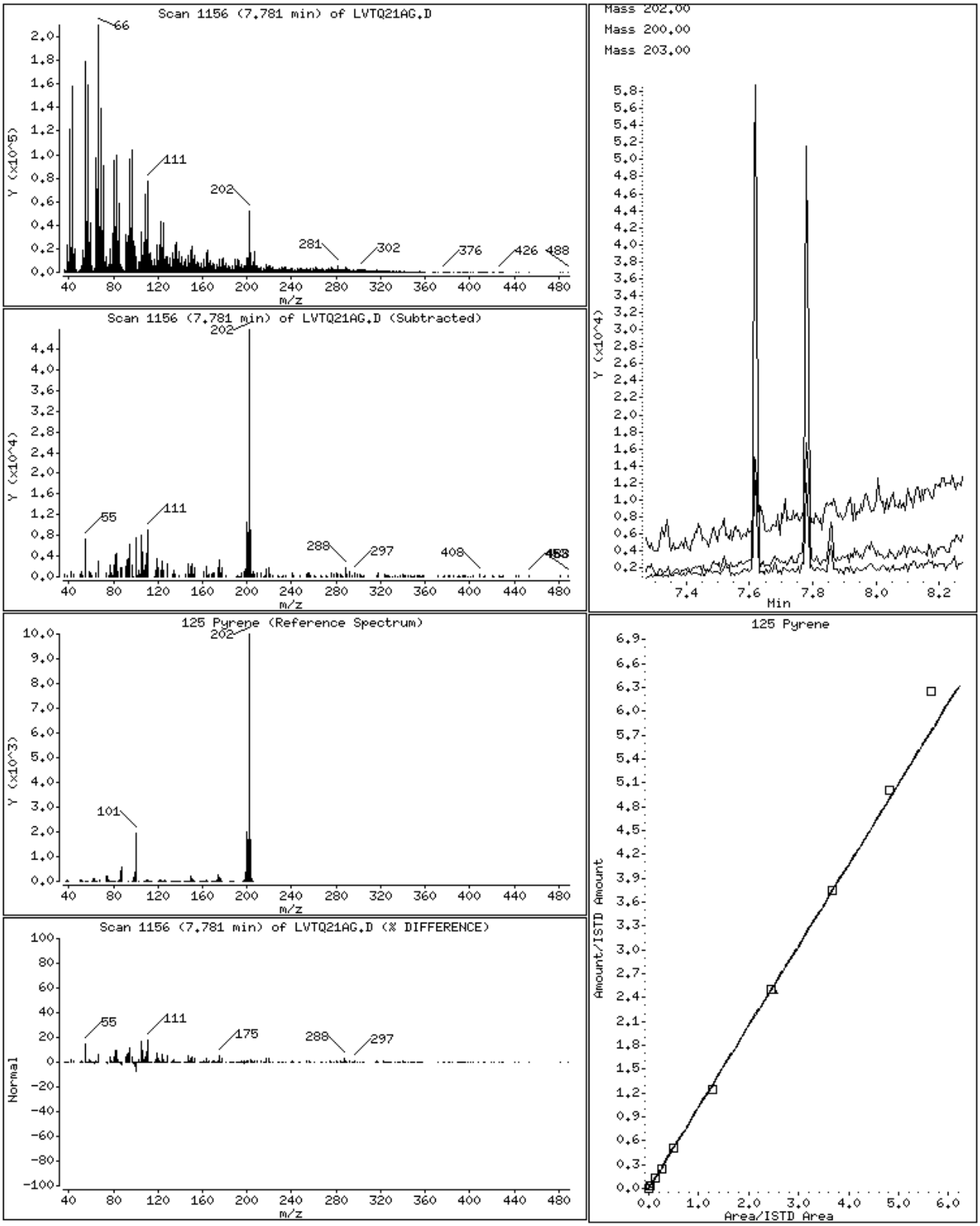
115 Phenanthrene



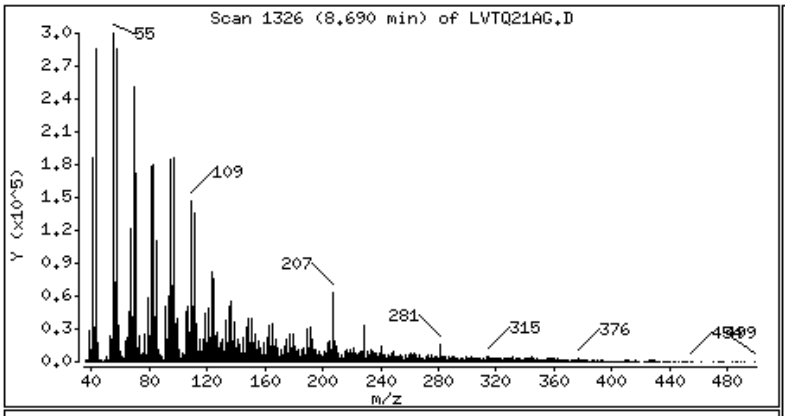
123 Fluoranthene

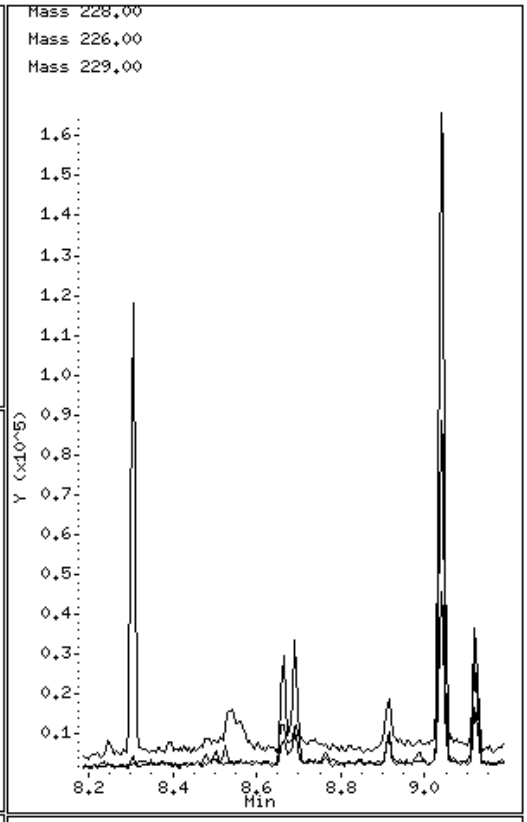


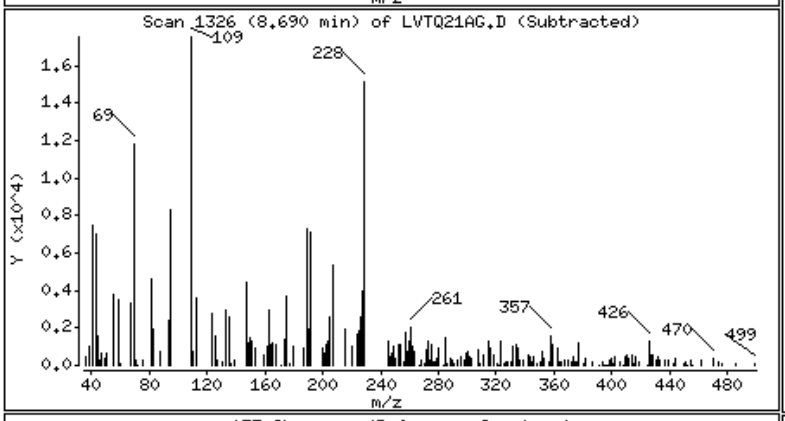
125 Pyrene

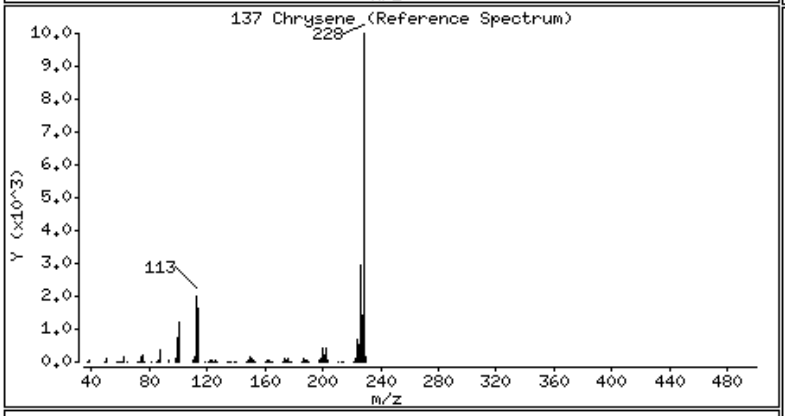

Scan 1156 (7.781 min) of LVTQ21AG.D
Y (x10^5)
m/z
Scan 1156 (7.781 min) of LVTQ21AG.D (Subtracted)
Y (x10^4)
m/z
125 Pyrene (Reference Spectrum)
Y (x10^3)
m/z
Scan 1156 (7.781 min) of LVTQ21AG.D (% DIFFERENCE)
Normal
m/z
Mass 202.00
Mass 200.00
Mass 203.00
Y (x10^4)
Min
125 Pyrene
Amount/ISTD Amount
Area/ISTD Area

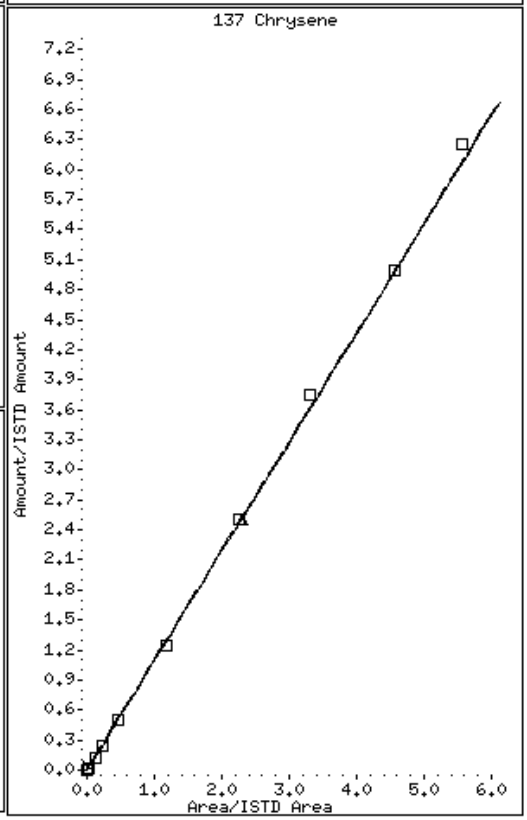
137 Chrysene

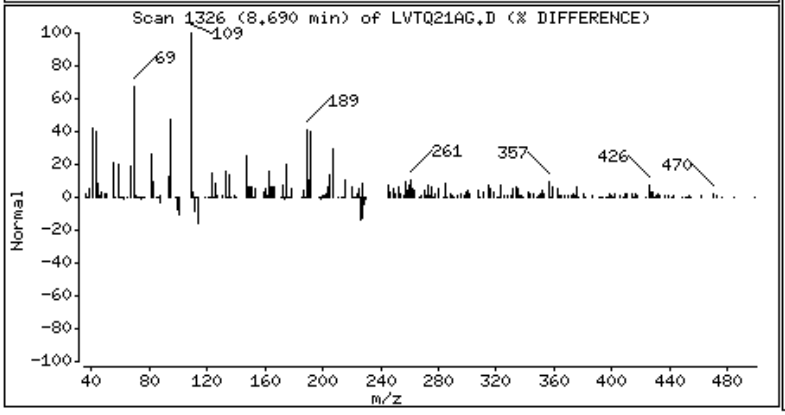












Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B180429-004 **Work Order #...:** LVTQ31A7 **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0054027
Dilution Factor: 1 **Initial Wgt/Vol:** 30.03 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 1.9 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	51	ug/kg	3.4
Acenaphthylene	ND	51	ug/kg	3.4
Anthracene	ND	51	ug/kg	3.4
Benzo(a)anthracene	ND	51	ug/kg	3.4
Benzo(b)fluoranthene	**11 J**	**51**	**ug/kg**	**3.4**
Benzo(k)fluoranthene	ND	51	ug/kg	3.4
Benzoic acid	ND	820	ug/kg	340
Benzo(ghi)perylene	ND	51	ug/kg	3.4
Benzo(a)pyrene	ND	51	ug/kg	3.4
Benzyl alcohol	**30 J**	**340**	**ug/kg**	**21**
bis(2-Chloroethoxy) methane	ND	340	ug/kg	22
bis(2-Chloroethyl)-ether	ND	340	ug/kg	2.0
bis(2-Chloroisopropyl) ether	ND	340	ug/kg	9.7
bis(2-Ethylhexyl) phthalate	**37 J**	**340**	**ug/kg**	**19**
4-Bromophenyl phenyl ether	ND	340	ug/kg	13
Butyl benzyl phthalate	ND	340	ug/kg	10
Carbazole	ND	51	ug/kg	28
4-Chloroaniline	ND	340	ug/kg	17
4-Chloro-3-methylphenol	ND	340	ug/kg	21
2-Chloronaphthalene	ND	340	ug/kg	3.4
2-Chlorophenol	ND	340	ug/kg	28
4-Chlorophenyl phenyl ether	ND	340	ug/kg	13
Dibenzo(a,h)anthracene	ND	51	ug/kg	3.4
Dibenzofuran	ND	340	ug/kg	20
Di-n-butyl phthalate	ND	340	ug/kg	15
1,2-Dichlorobenzene	ND	340	ug/kg	9.9
1,3-Dichlorobenzene	ND	340	ug/kg	11
1,4-Dichlorobenzene	ND	340	ug/kg	20
3,3'-Dichlorobenzidine	ND	340	ug/kg	18
2,4-Dichlorophenol	ND	340	ug/kg	20
Diethyl phthalate	ND	340	ug/kg	16
2,4-Dimethylphenol	ND	340	ug/kg	20

(Continued on next page)

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B180429-004 **Work Order #...:** LVTQ31A7 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dimethyl phthalate	ND	340	ug/kg	17
4,6-Dinitro-2-methylphenol	ND	820	ug/kg	82
2,4-Dinitrophenol	ND	820	ug/kg	82
2,4-Dinitrotoluene	ND	340	ug/kg	28
2,6-Dinitrotoluene	ND	340	ug/kg	21
Di-n-octyl phthalate	ND	340	ug/kg	28
Fluoranthene	**13 J**	**51**	**ug/kg**	**3.4**
Fluorene	ND	51	ug/kg	3.4
Hexachlorobenzene	ND	340	ug/kg	2.1
Hexachlorobutadiene	ND	340	ug/kg	28
Hexachlorocyclopenta-diene	ND	340	ug/kg	28
Hexachloroethane	ND	340	ug/kg	9.2
Indeno(1,2,3-cd)pyrene	ND	51	ug/kg	3.4
Isophorone	ND	340	ug/kg	13
2-Methylnaphthalene	**10 J**	**340**	**ug/kg**	**3.4**
2-Methylphenol	ND	340	ug/kg	82
3-Methylphenol & 4-Methylphenol	ND	340	ug/kg	20
Naphthalene	**14 J**	**51**	**ug/kg**	**3.4**
2-Nitroaniline	ND	820	ug/kg	9.3
3-Nitroaniline	ND	820	ug/kg	16
4-Nitroaniline	ND	820	ug/kg	26
Nitrobenzene	ND	340	ug/kg	2.2
2-Nitrophenol	ND	340	ug/kg	28
4-Nitrophenol	ND	820	ug/kg	82
N-Nitrosodiphenylamine	ND	340	ug/kg	21
N-Nitrosodi-n-propyl-amine	ND	340	ug/kg	28
Pentachlorophenol	ND	340	ug/kg	82
Phenanthrene	**8.1 J**	**51**	**ug/kg**	**3.4**
Phenol	ND	340	ug/kg	28
Pyrene	**8.3 J**	**51**	**ug/kg**	**3.4**
1,2,4-Trichloro-benzene	ND	340	ug/kg	28
2,4,5-Trichloro-phenol	ND	340	ug/kg	25
2,4,6-Trichloro-phenol	ND	340	ug/kg	82
Chrysene	**7.3 J**	**51**	**ug/kg**	**1.1**

(Continued on next page)

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B180429-004 **Work Order #...:** LVTQ31A7 **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	56	(45 - 105)
2-Fluorophenol	66	(35 - 105)
Phenol-d5	64	(40 - 100)
2,4,6-Tribromophenol	60	(35 - 125)
Nitrobenzene-d5	51	(35 - 100)
Terphenyl-d14	70	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LVTQ31A7.D
Lab Smp Id: lvtq31a7 Client Smp ID: B12SS-038M-5040-SO
Inj Date : 02-MAR-2010 13:47
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lvtq31a7,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 04-Mar-2010 10:09 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.480	3.470	(1.000)	250160	2.00000		(Q)
* 2 Naphthalene-d8	136	4.363	4.358	(1.000)	1138294	2.00000		
* 3 Acenaphthene-d10	164	5.630	5.625	(1.000)	675823	2.00000		
* 4 Phenanthrene-d10	188	6.711	6.711	(1.000)	1109840	2.00000		
* 5 Chrysene-d12	240	8.663	8.663	(1.000)	1439695	2.00000		
* 6 Perylene-d12	264	10.038	10.027	(1.000)	1359965	2.00000		
9 Pyridine	79	Compound Not Detected.						
10 N-Nitrosodimethylamine	74	Compound Not Detected.						
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	Compound Not Detected.						
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	Compound Not Detected.						
21 Aniline	93	Compound Not Detected.						
22 Phenol	94	Compound Not Detected.						
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	Compound Not Detected.						
26 1,3-Dichlorobenzene	146	Compound Not Detected.						
27 1,4-Dichlorobenzene	146	Compound Not Detected.						

28	1,2-Dichlorobenzene	146	Compound Not Detected.				
29	Benzyl Alcohol	108	3.561	3.539 (1.023)	23150	0.21959	29.250
30	2-Methylphenol	108	Compound Not Detected.				

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	4.127	4.160	(0.946)	67766	1.58775	211.49
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	4.379	4.374	(1.004)	51468	0.10168	13.544
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	4.871	4.866	(1.116)	20422	0.07462	9.9388
63	1-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					
212	Atrazine	200	Compound Not Detected.					

111 Pentachlorophenol	266	Compound Not Detected.					
115 Phenanthrene	178	6.732	6.727 (1.003)		35825	0.05975	7.9587
116 Anthracene	178	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
123	Fluoranthene	202	7.599	7.599	(1.132)	58295	0.09599	12.785
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.770	7.770	(0.897)	43108	0.06082	8.1010
131	Butylbenzylphthalate	149	Compound Not Detected.					
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	Compound Not Detected.					
137	Chrysene	228	8.685	8.685	(1.002)	35497	0.05373	7.1563
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.588	8.588	(0.991)	134222	0.27100	36.097
140	Di-n-octylphthalate	149	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	9.615	9.610	(0.958)	54390	0.07938	10.574(QM)
142	Benzo(k)fluoranthene	252	Compound Not Detected.					
146	Benzo(a)pyrene	252	Compound Not Detected.					
149	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150	Dibenz(a,h)anthracene	278	Compound Not Detected.					
151	Benzo(g,h,i)perylene	276	Compound Not Detected.					
198	1,4-Dioxane	88	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.855	3.844	(0.884)	511920	2.54321	338.76
$ 155	2-Fluorobiphenyl	172	5.122	5.117	(0.910)	1069624	2.79086	371.74
$ 156	Terphenyl-d14	244	7.850	7.845	(0.906)	1554198	3.48056	463.61
$ 157	Phenol-d5	99	3.234	3.181	(0.929)	894484	4.77938	636.61(H)
$ 158	2-Fluorophenol	112	2.721	2.603	(0.782)	707021	4.94389	658.53
$ 159	2,4,6-Tribromophenol	330	6.203	6.198	(1.102)	212977	4.50380	599.91
$ 186	2-Chlorophenol-d4	132	3.347	3.315	(0.962)	739912	5.03401	670.53
$ 187	1,2-Dichlorobenzene-d4	152	3.593	3.582	(1.032)	257876	2.56386	341.51
M 195	Cresols, total	100	Compound Not Detected.					
101	Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

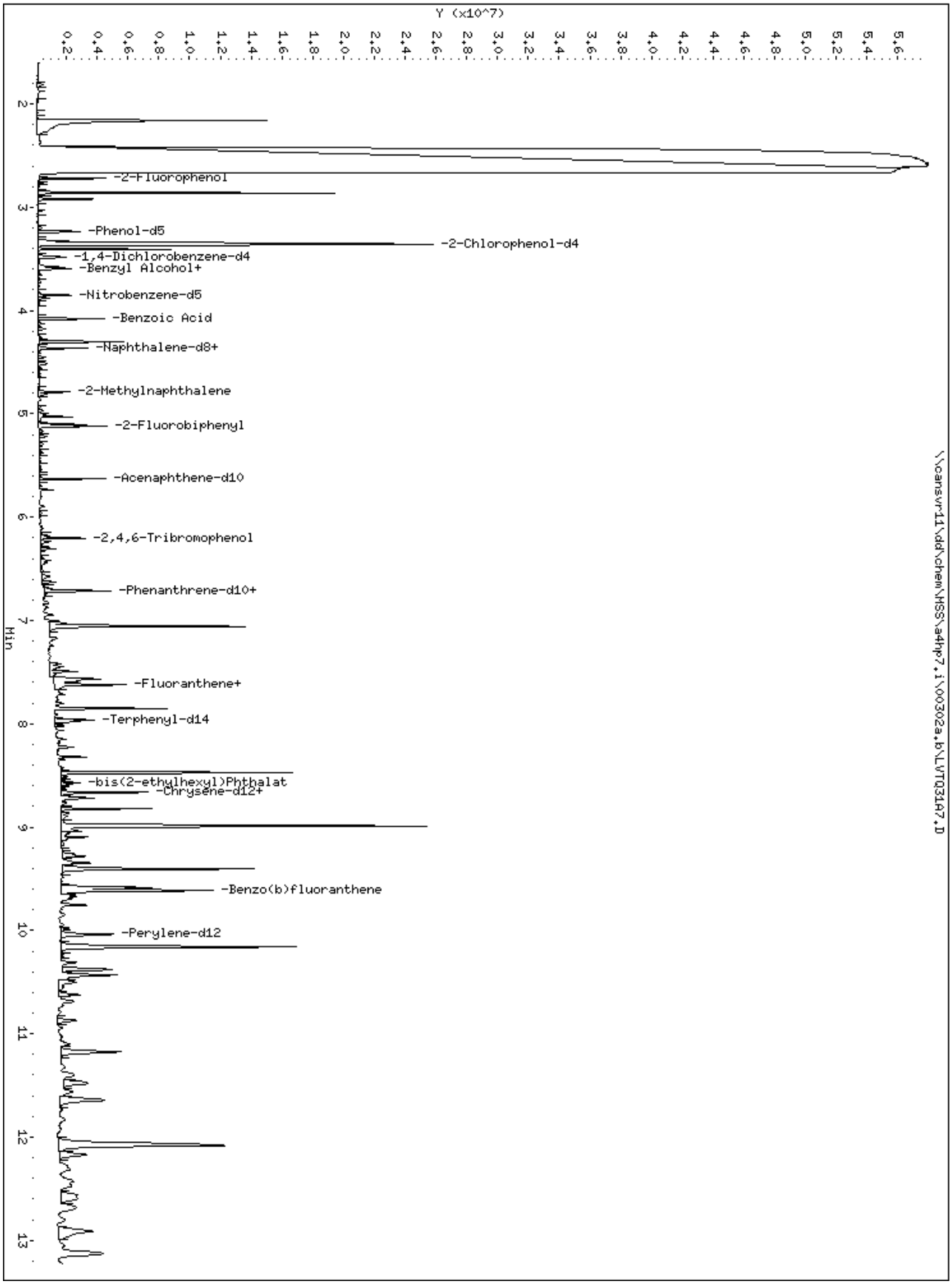
Instrument ID: a4hp7.i
Lab File ID: LVTQ31A7.D
Lab Smp Id: lvtq31a7
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Client Smp ID: B12SS-038M-5040-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	250160	-20.44
2 Naphthalene-d8	1302947	651474	2605894	1138294	-12.64
3 Acenaphthene-d10	667302	333651	1334604	675823	1.28
4 Phenanthrene-d10	1052286	526143	2104572	1109840	5.47
5 Chrysene-d12	1252372	626186	2504744	1439695	14.96
6 Perylene-d12	1122003	561002	2244006	1359965	21.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.48	0.30
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.12
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.09
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	-0.00
5 Chrysene-d12	8.66	8.16	9.16	8.66	-0.00
6 Perylene-d12	10.03	9.53	10.53	10.04	0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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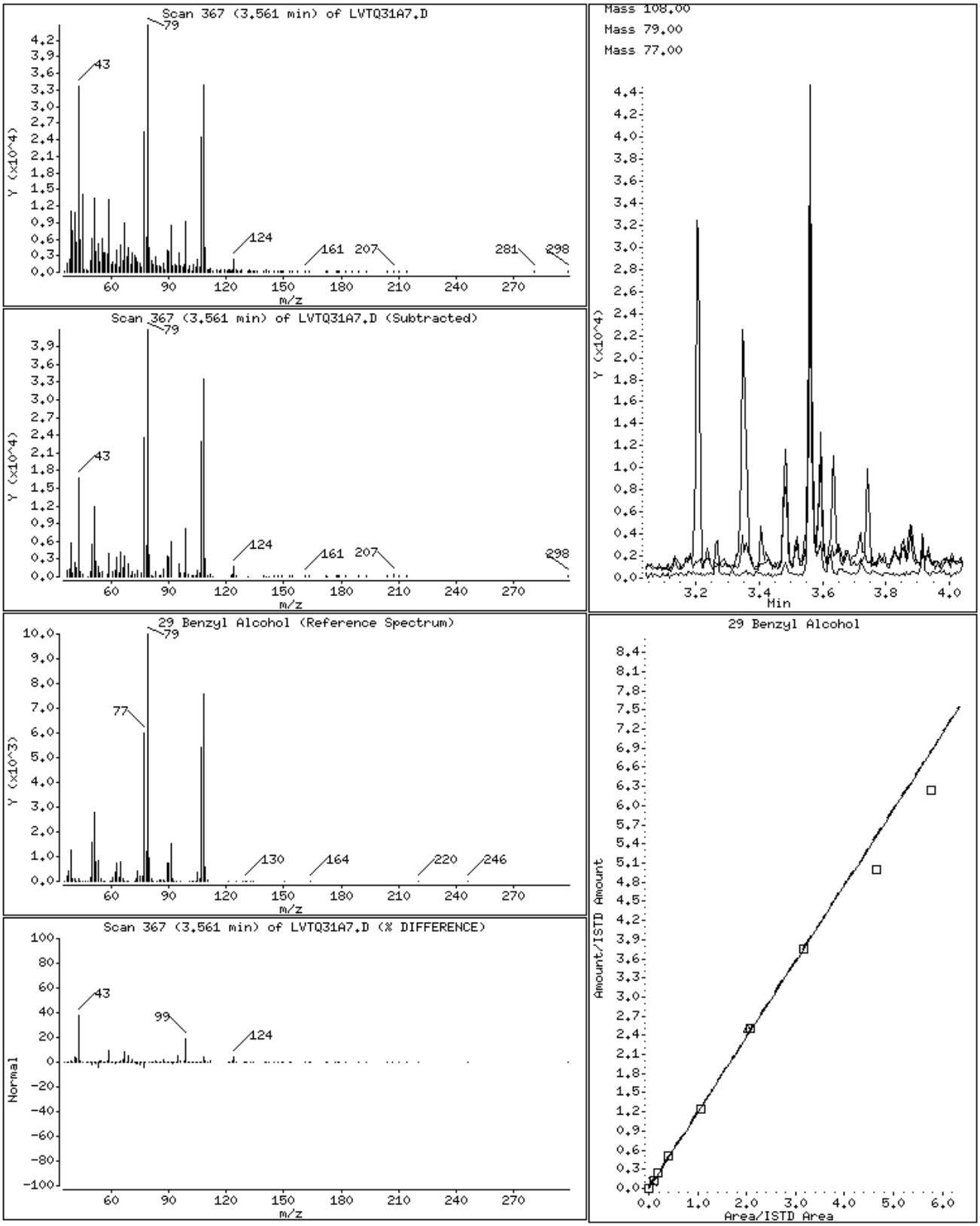
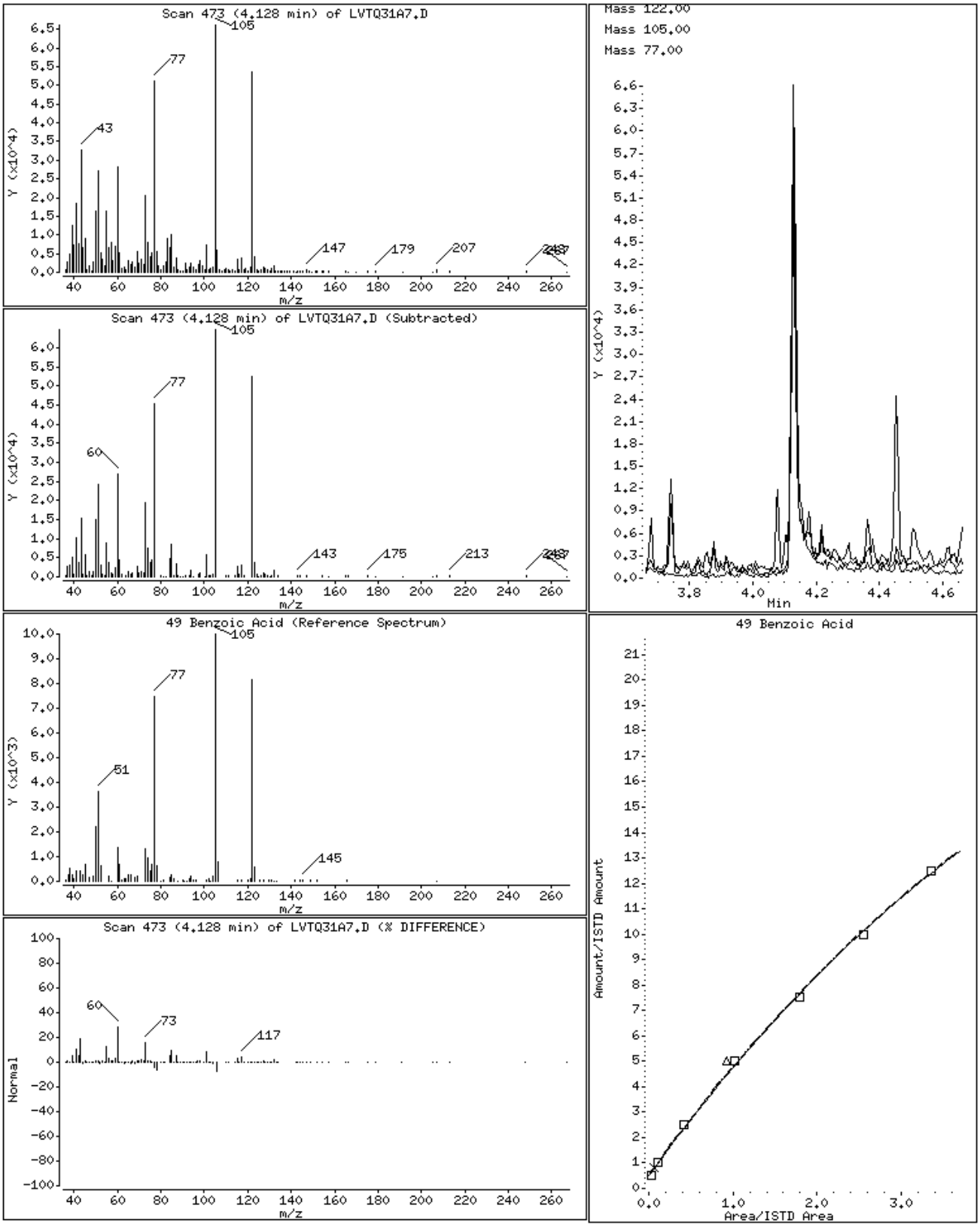
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6
2
3
4
5
6
7
8
9
10
11
12
13
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-Benzyl Alcohol+
-Nitrobenzene-d5
-Benzoic Acid
-Naphthalene-d8+
-2-Methylnaphthalene
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-Fluoranthene+
-Terphenyl-d14
-bis(2-ethylhexyl)Phthalat
-Chrysene-d12+
-Benzo(b)fluoranthene
-Perylene-d12
\\cansvr11\dd\chem\HSS\a4hp7.i\00302a.b\LVTQ3A07.D

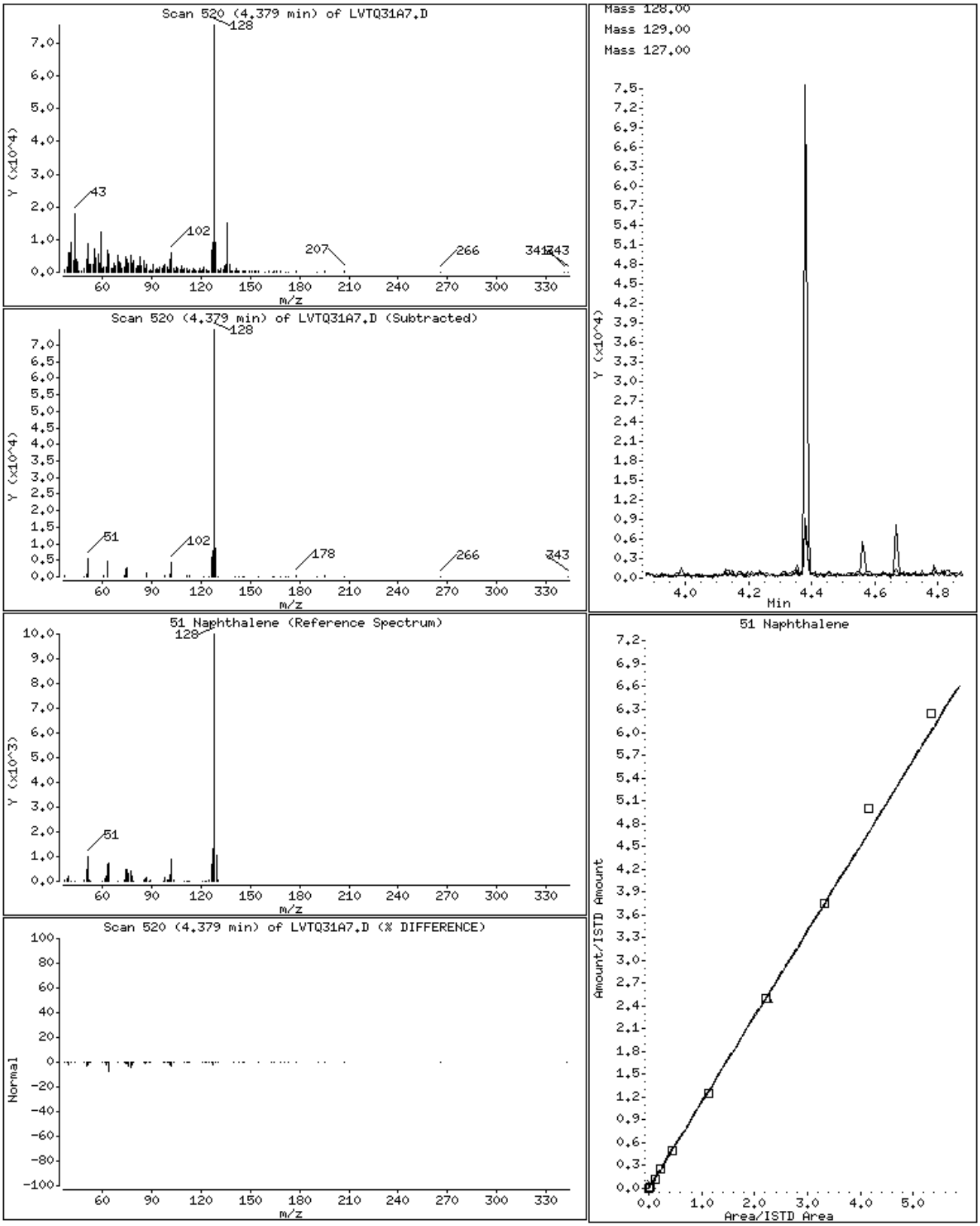
29 Benzyl Alcohol



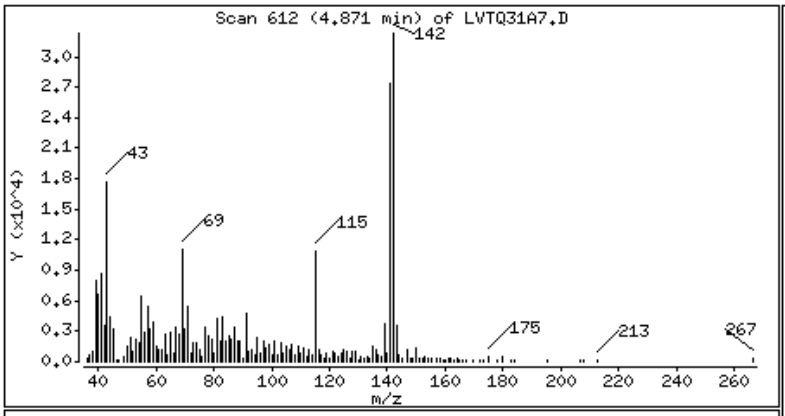
49 Benzoic Acid

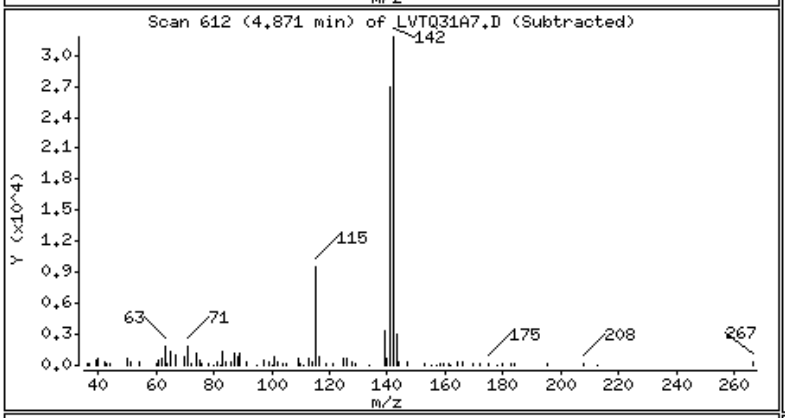


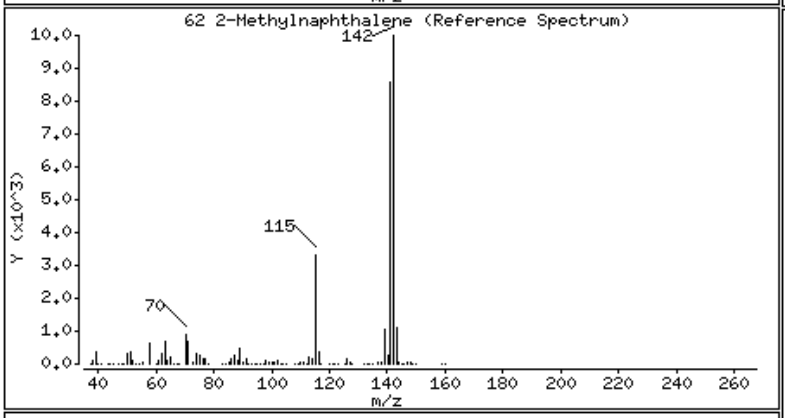
51 Naphthalene

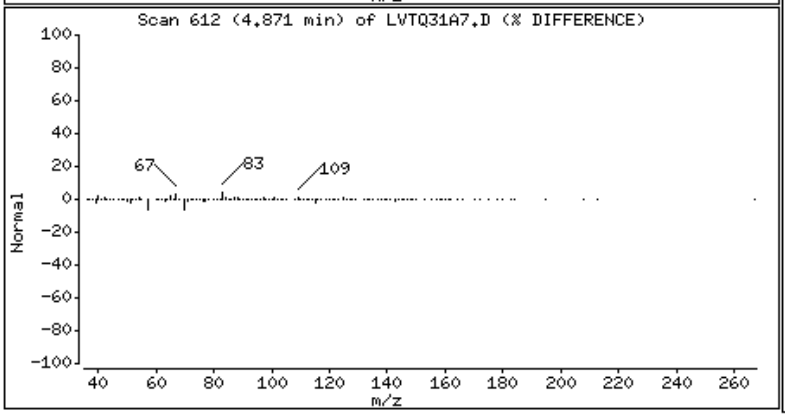


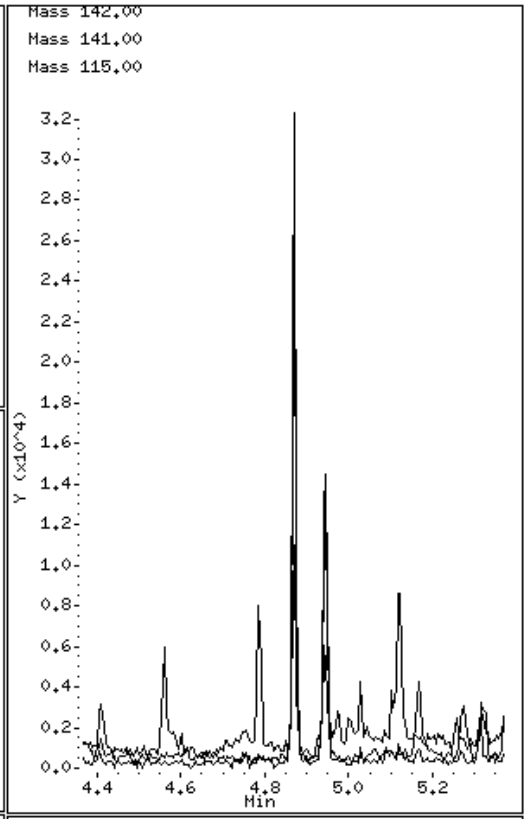
62 2-Methylnaphthalene

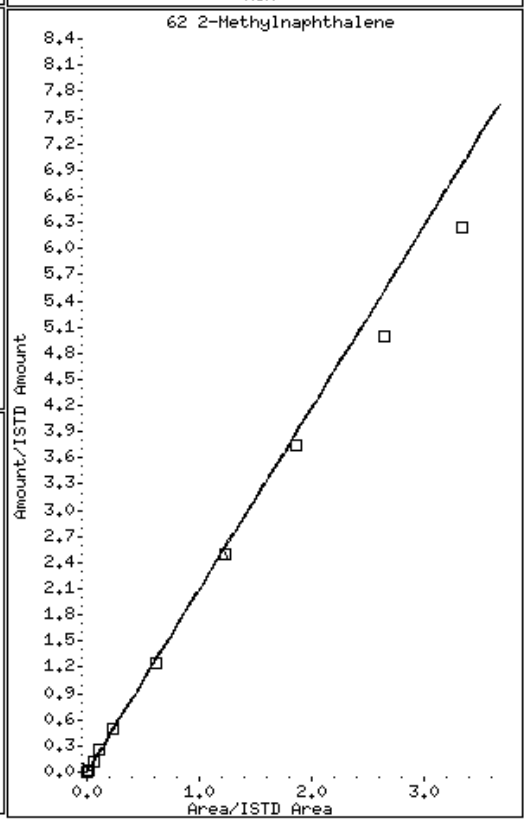




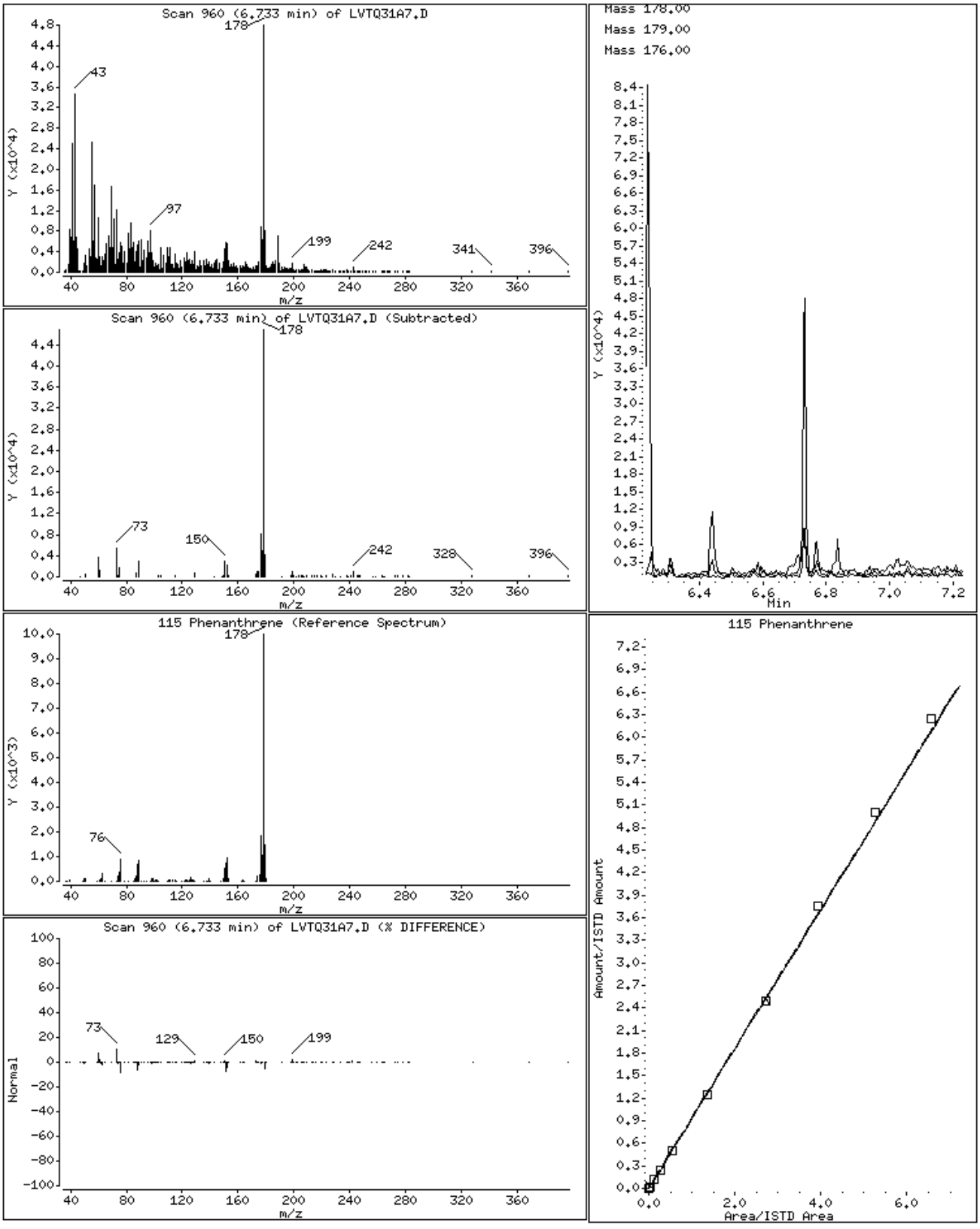




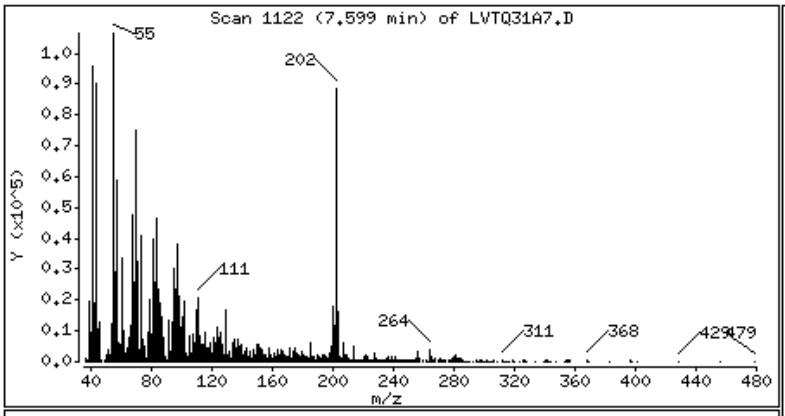


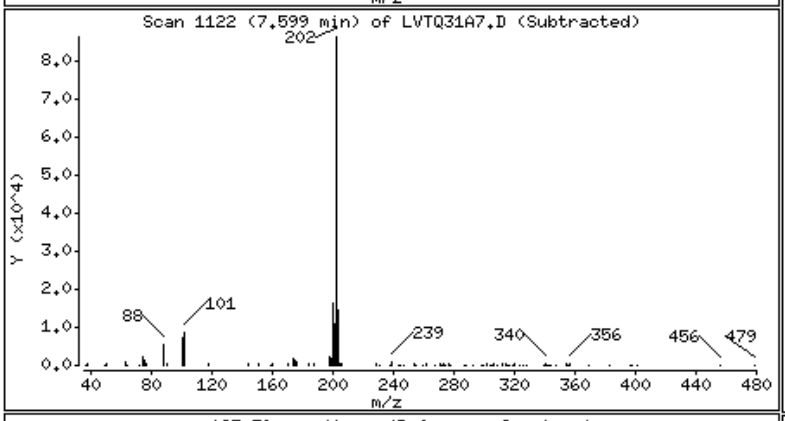


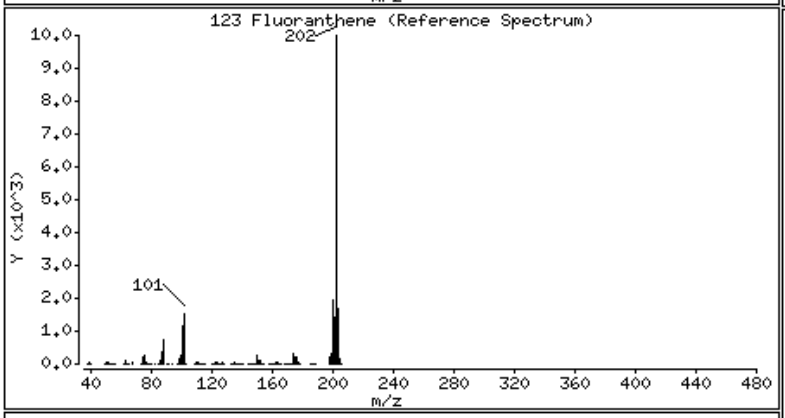
115 Phenanthrene

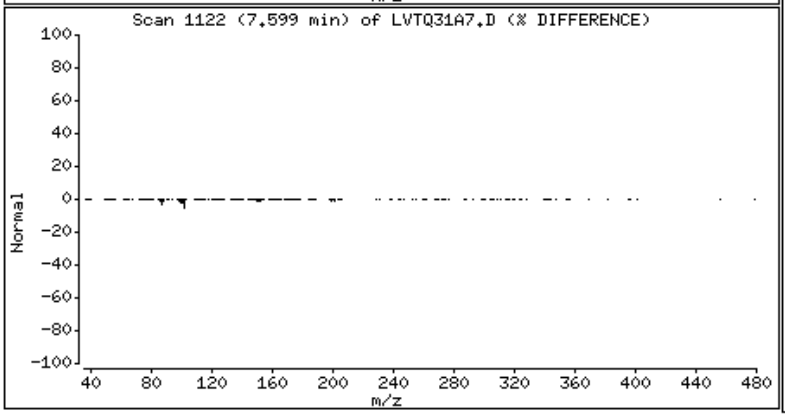


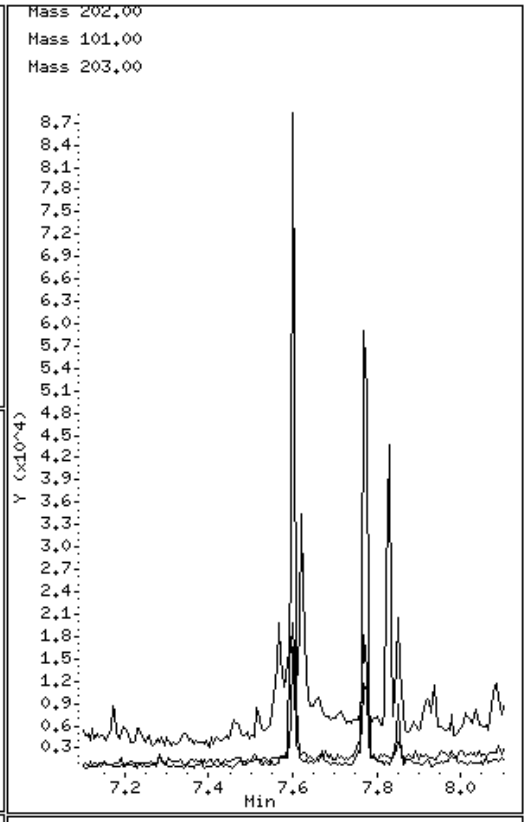
123 Fluoranthene

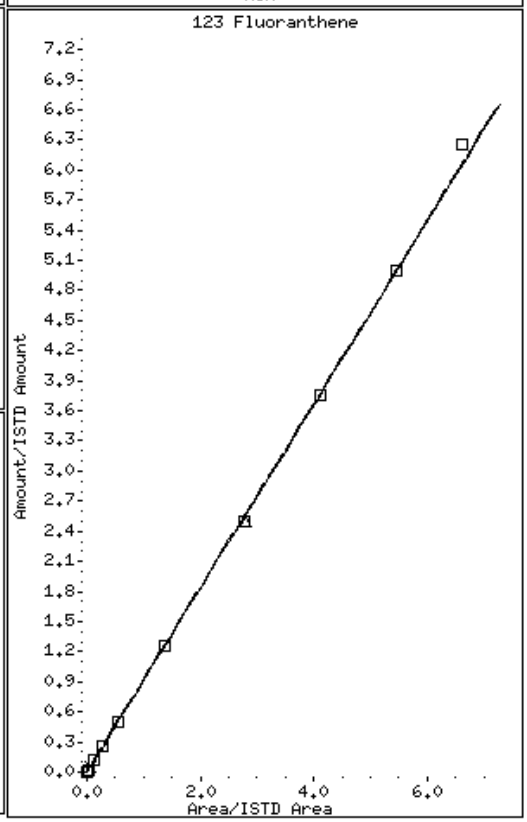




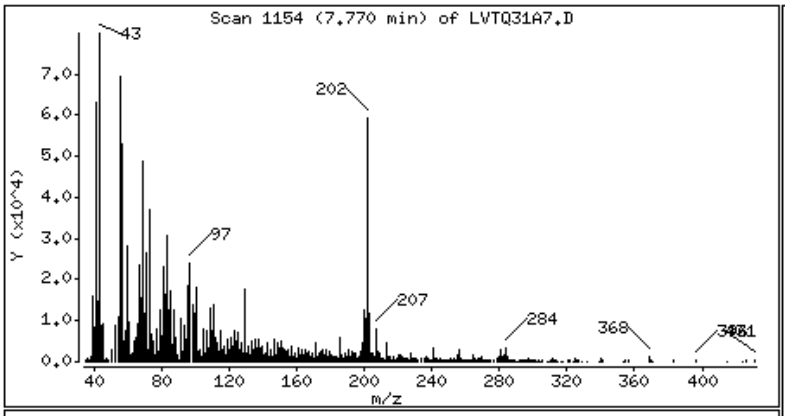


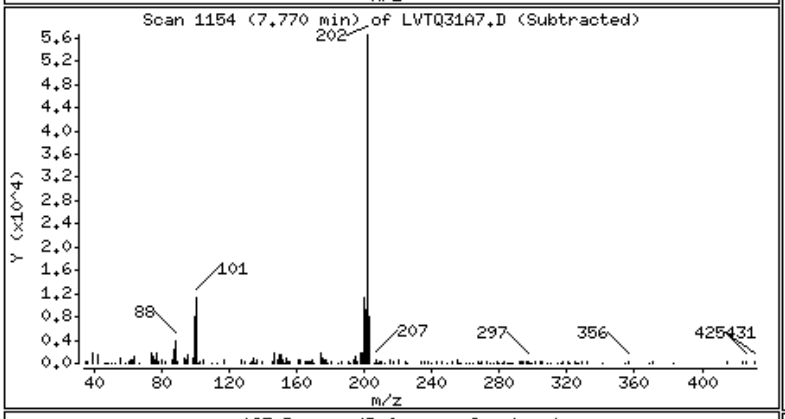


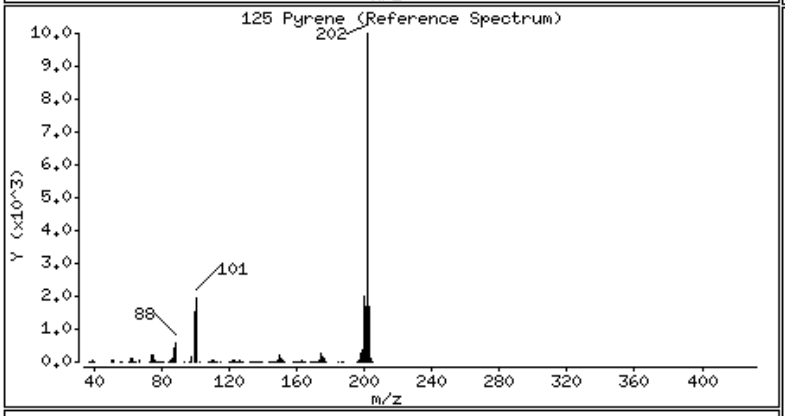


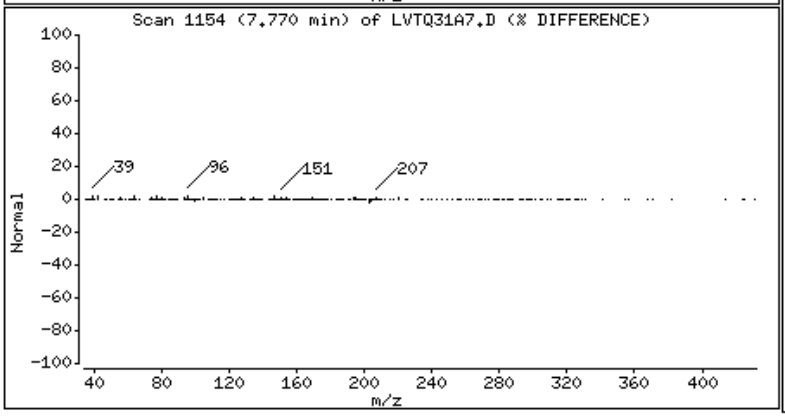


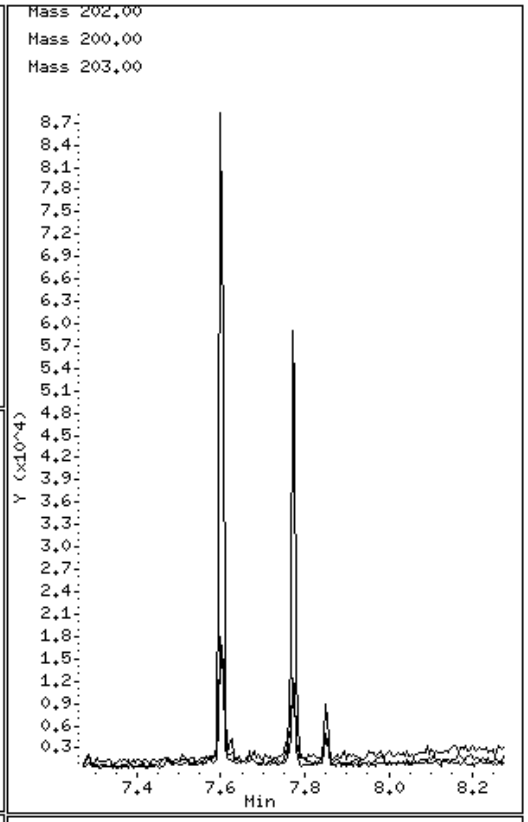
125 Pyrene

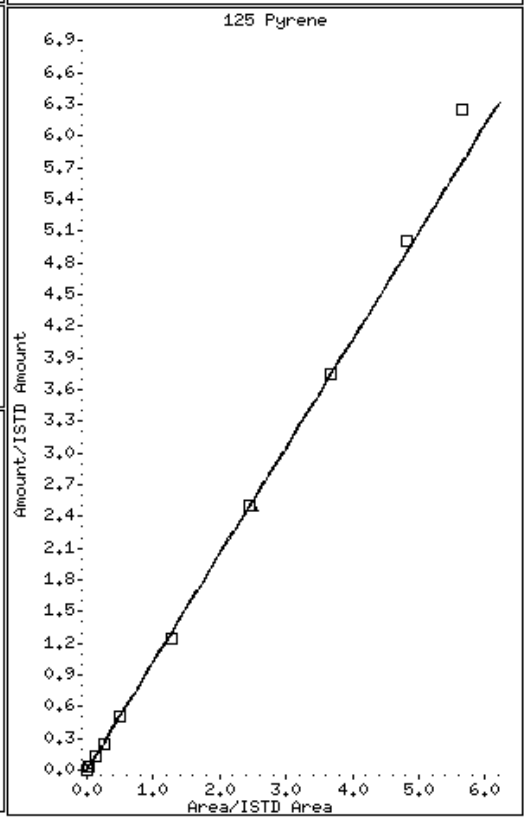

Scan 1154 (7.770 min) of LVTQ31A7.D
Y (x10^4)
m/z
43
202
97
207
284
368


Scan 1154 (7.770 min) of LVTQ31A7.D (Subtracted)
Y (x10^4)
m/z
202
101
88
207
297
356

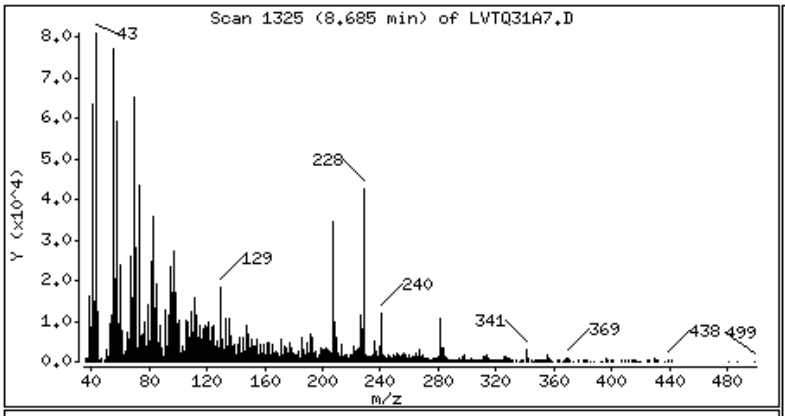

125 Pyrene (Reference Spectrum)
Y (x10^3)
m/z
202
101
88

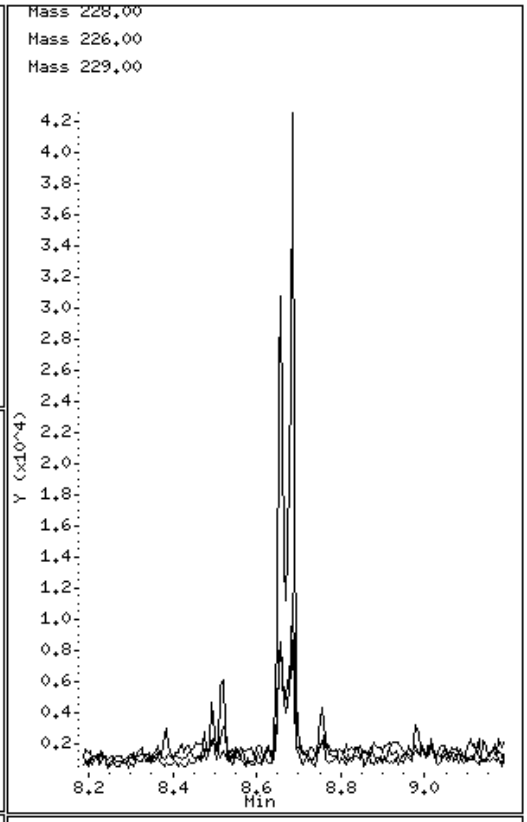

Scan 1154 (7.770 min) of LVTQ31A7.D (% DIFFERENCE)
Normal
m/z
39
96
151
207

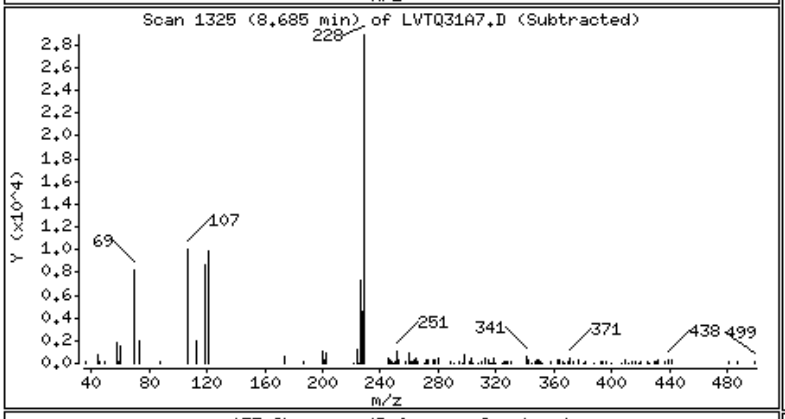

Mass 202.00
Mass 200.00
Mass 203.00
Y (x10^4)
Min

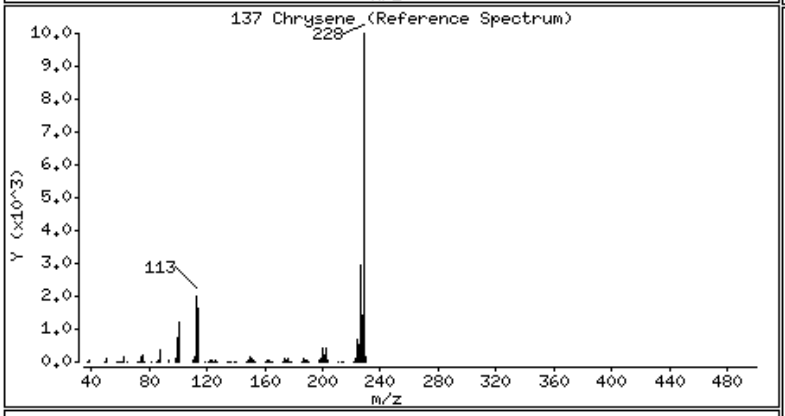

125 Pyrene
Amount/ISTD Amount
Area/ISTD Area

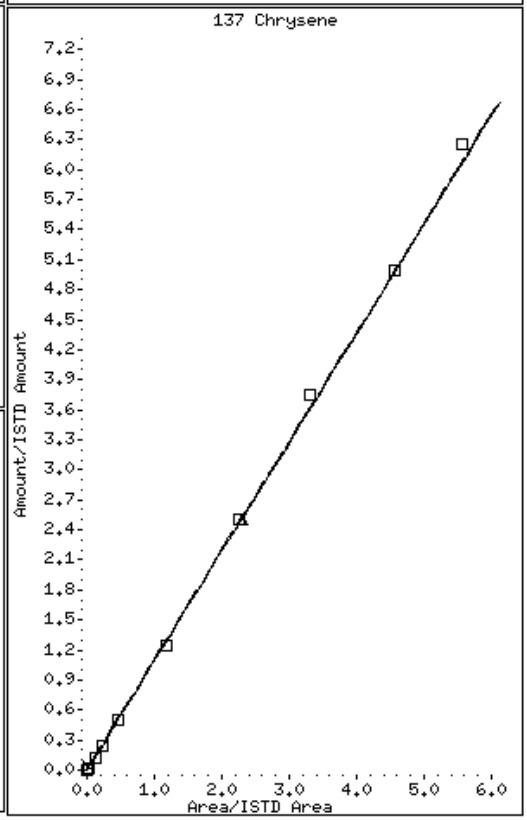
137 Chrysene

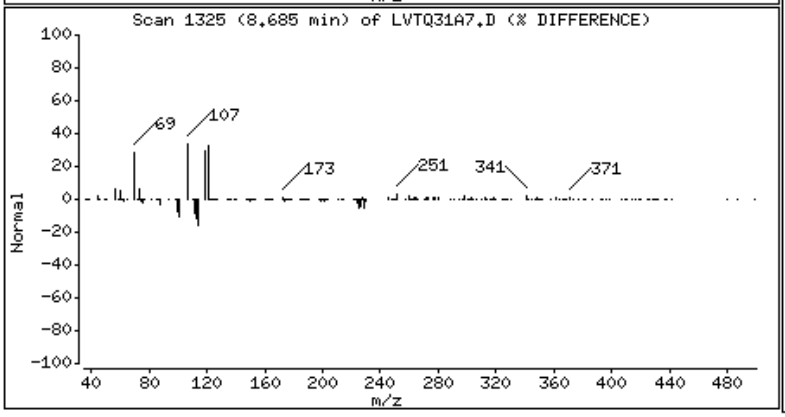




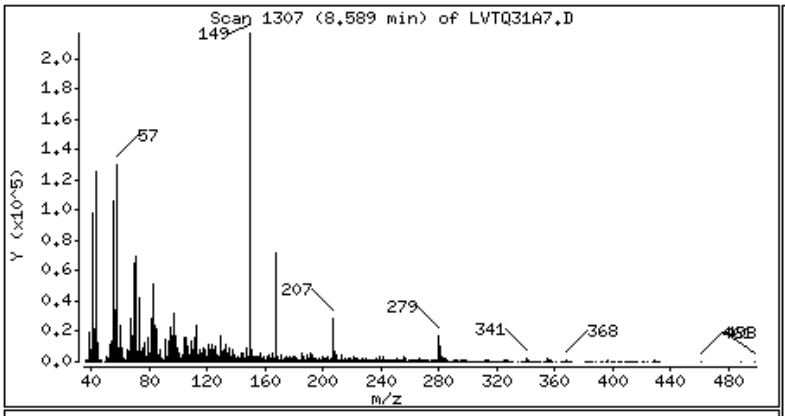


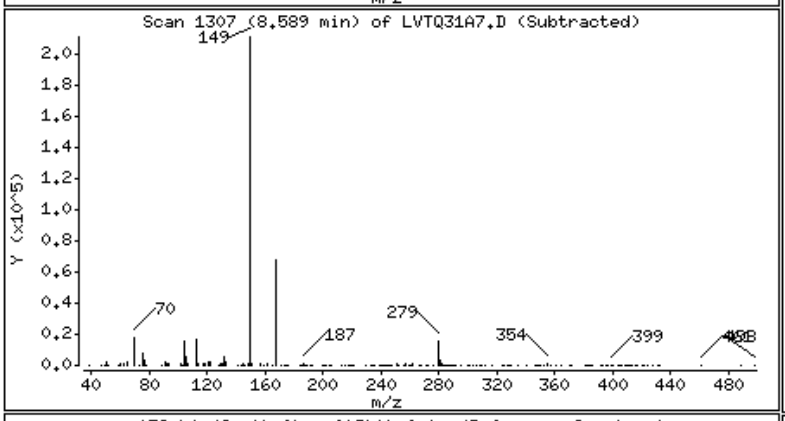


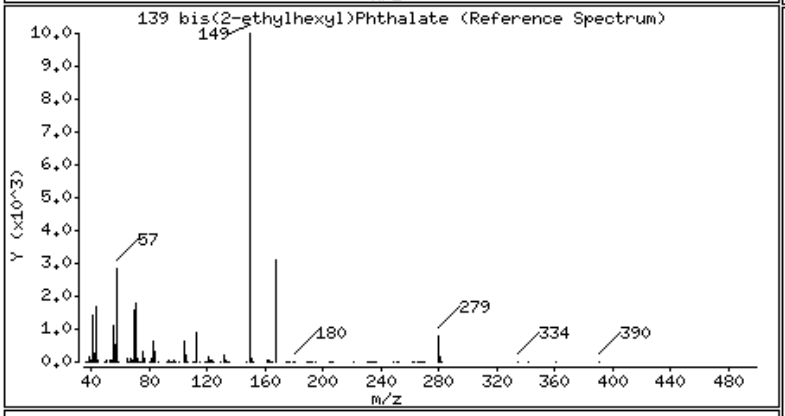


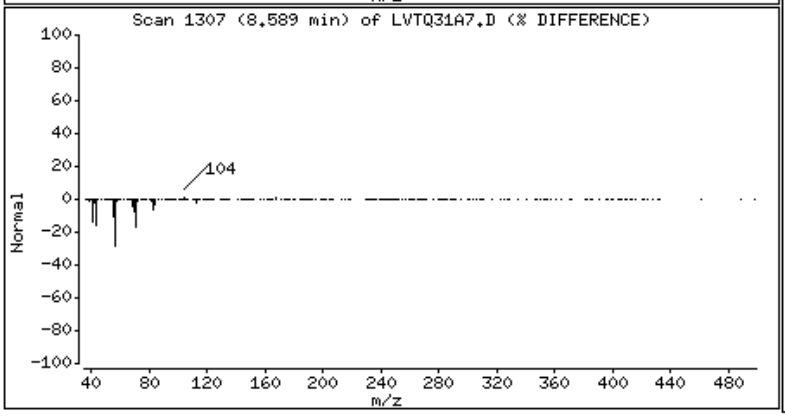


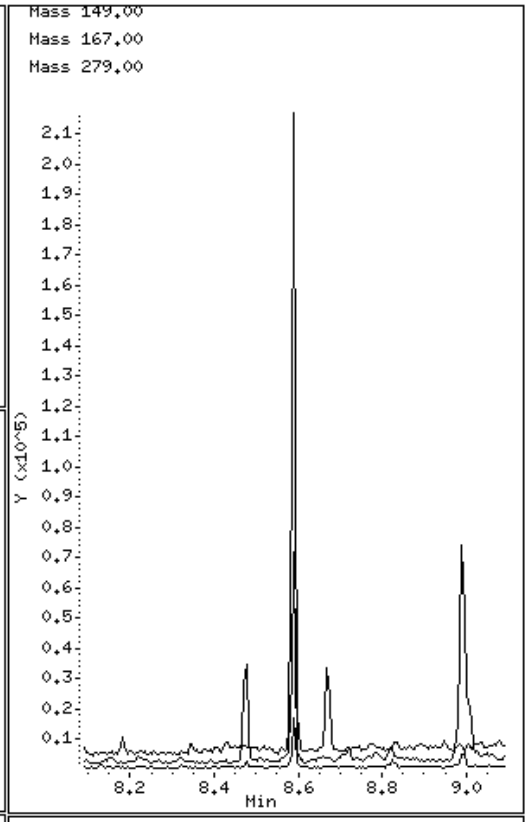
139 bis(2-ethylhexyl)Phthalate

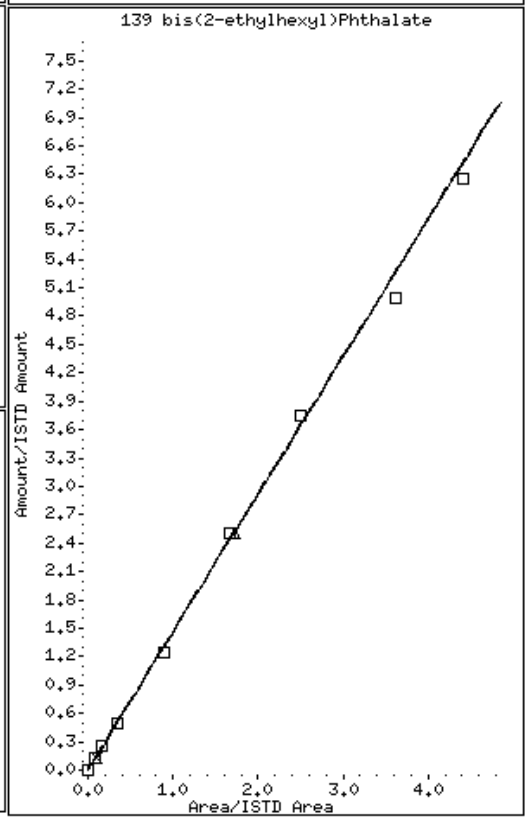




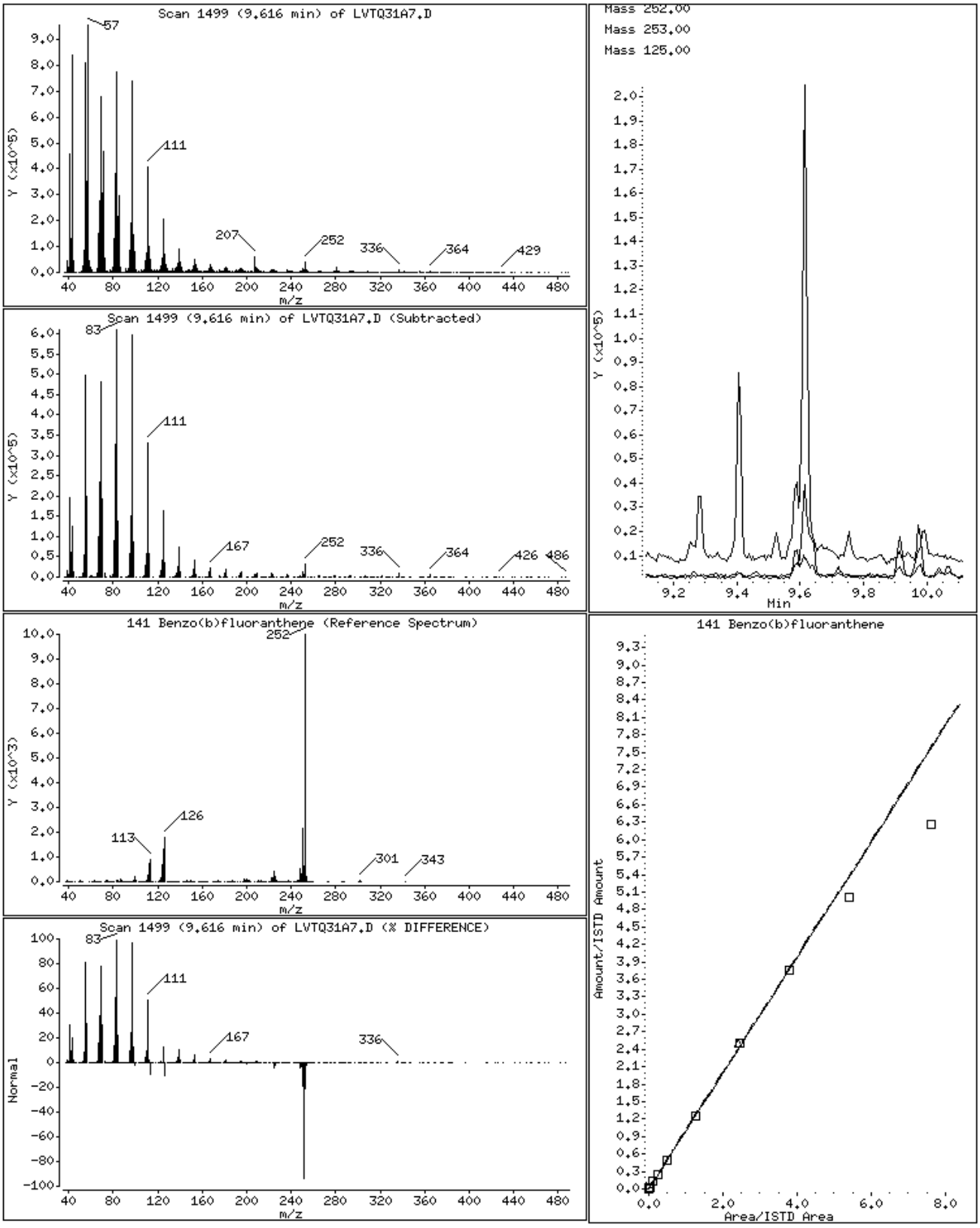




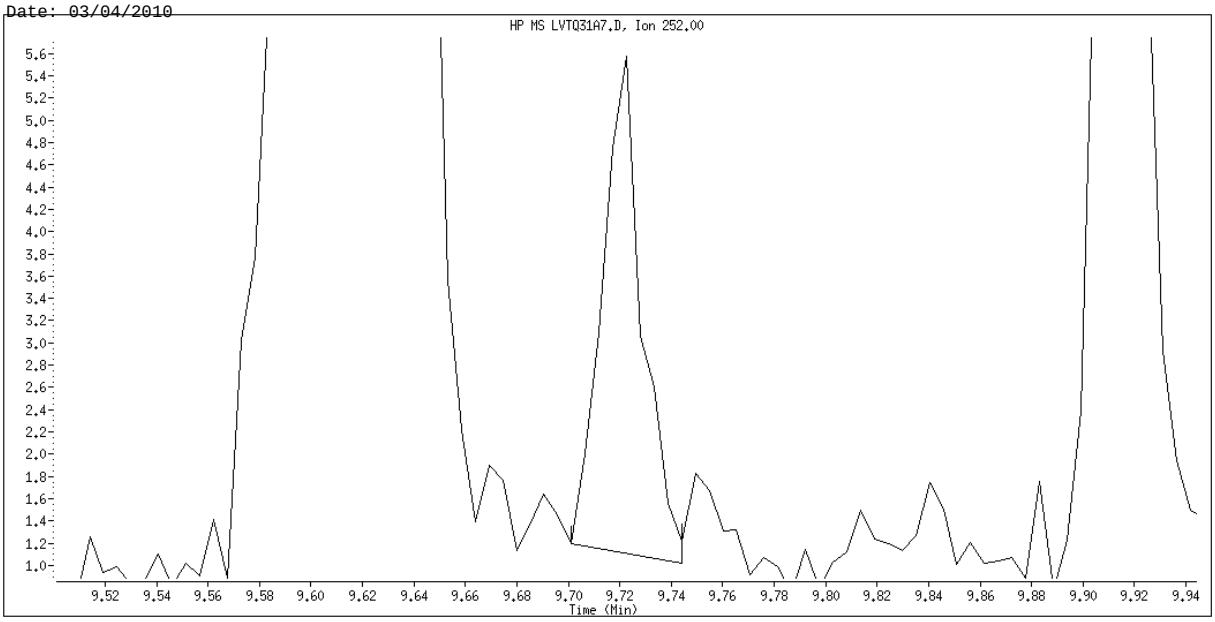




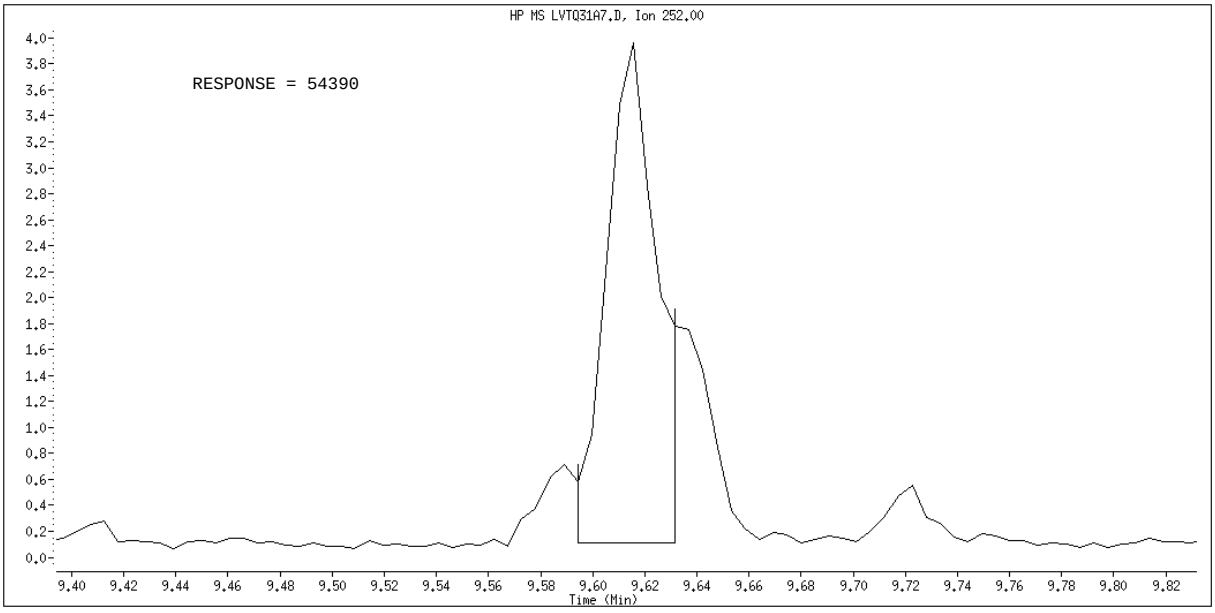
141 Benzo(b)fluoranthene



Data File Name: LVTQ31A7.D
Inj. Date and Time: 02-MAR-2010 13:47
Instrument ID: a4hp7.i
Client ID: B12SS-038M-5040-SO
Compound Name: Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/04/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B180429-012 **Work Order #...:** LVTT01AC **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0054027
Dilution Factor: 1 **Initial Wgt/Vol:** 30.14 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 1.9 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	51	ug/kg	3.4
Acenaphthylene	ND	51	ug/kg	3.4
Anthracene	ND	51	ug/kg	3.4
Benzo(a)anthracene	ND	51	ug/kg	3.4
Benzo(b)fluoranthene	ND	51	ug/kg	3.4
Benzo(k)fluoranthene	ND	51	ug/kg	3.4
Benzoic acid	ND	820	ug/kg	340
Benzo(ghi)perylene	ND	51	ug/kg	3.4
Benzo(a)pyrene	ND	51	ug/kg	3.4
Benzyl alcohol	ND	340	ug/kg	21
bis(2-Chloroethoxy) methane	ND	340	ug/kg	22
bis(2-Chloroethyl)-ether	ND	340	ug/kg	2.0
bis(2-Chloroisopropyl) ether	ND	340	ug/kg	9.7
bis(2-Ethylhexyl) phthalate	**69 J**	**340**	**ug/kg**	**19**
4-Bromophenyl phenyl ether	ND	340	ug/kg	13
Butyl benzyl phthalate	ND	340	ug/kg	10
Carbazole	ND	51	ug/kg	28
4-Chloroaniline	ND	340	ug/kg	17
4-Chloro-3-methylphenol	ND	340	ug/kg	21
2-Chloronaphthalene	ND	340	ug/kg	3.4
2-Chlorophenol	ND	340	ug/kg	28
4-Chlorophenyl phenyl ether	ND	340	ug/kg	13
Dibenzo(a,h)anthracene	ND	51	ug/kg	3.4
Dibenzofuran	ND	340	ug/kg	20
Di-n-butyl phthalate	ND	340	ug/kg	15
1,2-Dichlorobenzene	ND	340	ug/kg	9.9
1,3-Dichlorobenzene	ND	340	ug/kg	11
1,4-Dichlorobenzene	ND	340	ug/kg	20
3,3'-Dichlorobenzidine	ND	340	ug/kg	18
2,4-Dichlorophenol	ND	340	ug/kg	20
Diethyl phthalate	ND	340	ug/kg	16
2,4-Dimethylphenol	ND	340	ug/kg	20

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B180429-012 **Work Order #...:** LVTT01AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dimethyl phthalate	ND	340	ug/kg	17
4,6-Dinitro-2-methylphenol	ND	820	ug/kg	82
2,4-Dinitrophenol	ND	820	ug/kg	82
2,4-Dinitrotoluene	ND	340	ug/kg	28
2,6-Dinitrotoluene	ND	340	ug/kg	21
Di-n-octyl phthalate	ND	340	ug/kg	28
Fluoranthene	ND	51	ug/kg	3.4
Fluorene	ND	51	ug/kg	3.4
Hexachlorobenzene	ND	340	ug/kg	2.1
Hexachlorobutadiene	ND	340	ug/kg	28
Hexachlorocyclopenta-diene	ND	340	ug/kg	28
Hexachloroethane	ND	340	ug/kg	9.2
Indeno(1,2,3-cd)pyrene	ND	51	ug/kg	3.4
Isophorone	ND	340	ug/kg	13
2-Methylnaphthalene	**9.2 J**	**340**	**ug/kg**	**3.4**
2-Methylphenol	ND	340	ug/kg	82
3-Methylphenol & 4-Methylphenol	ND	340	ug/kg	20
Naphthalene	**12 J**	**51**	**ug/kg**	**3.4**
2-Nitroaniline	ND	820	ug/kg	9.3
3-Nitroaniline	ND	820	ug/kg	16
4-Nitroaniline	ND	820	ug/kg	27
Nitrobenzene	ND	340	ug/kg	2.2
2-Nitrophenol	ND	340	ug/kg	28
4-Nitrophenol	ND	820	ug/kg	82
N-Nitrosodiphenylamine	ND	340	ug/kg	21
N-Nitrosodi-n-propyl-amine	ND	340	ug/kg	28
Pentachlorophenol	ND	340	ug/kg	82
Phenanthrene	ND	51	ug/kg	3.4
Phenol	ND	340	ug/kg	28
Pyrene	ND	51	ug/kg	3.4
1,2,4-Trichloro-benzene	ND	340	ug/kg	28
2,4,5-Trichloro-phenol	ND	340	ug/kg	25
2,4,6-Trichloro-phenol	ND	340	ug/kg	82
Chrysene	ND	51	ug/kg	1.1

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B180429-012 **Work Order #...:** LVTT01AC **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	61	(45 - 105)
2-Fluorophenol	71	(35 - 105)
Phenol-d5	64	(40 - 100)
2,4,6-Tribromophenol	65	(35 - 125)
Nitrobenzene-d5	54	(35 - 100)
Terphenyl-d14	74	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LVTT01AC.D
Lab Smp Id: lvtt01ac Client Smp ID: ATASS-015M-5036-SO
Inj Date : 02-MAR-2010 14:06
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lvtt01ac,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 04-Mar-2010 10:09 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.140	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.502	3.470	(1.000)	233550	2.00000		(Q)
* 2 Naphthalene-d8	136	4.368	4.358	(1.000)	997189	2.00000		
* 3 Acenaphthene-d10	164	5.631	5.625	(1.000)	565293	2.00000		
* 4 Phenanthrene-d10	188	6.711	6.711	(1.000)	909397	2.00000		
* 5 Chrysene-d12	240	8.663	8.663	(1.000)	1141653	2.00000		
* 6 Perylene-d12	264	10.038	10.027	(1.000)	1080777	2.00000		
9 Pyridine	79	Compound Not Detected.						
10 N-Nitrosodimethylamine	74	Compound Not Detected.						
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	Compound Not Detected.						
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	Compound Not Detected.						
21 Aniline	93	Compound Not Detected.						
22 Phenol	94	Compound Not Detected.						
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	Compound Not Detected.						
26 1,3-Dichlorobenzene	146	Compound Not Detected.						
27 1,4-Dichlorobenzene	146	Compound Not Detected.						

28	1,2-Dichlorobenzene	146	Compound Not Detected.
29	Benzyl Alcohol	108	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
30	2-Methylphenol	108	Compound Not Detected.					
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	4.384	4.374	(1.004)	39693	0.08951	11.880
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	4.871	4.866	(1.115)	16300	0.06798	9.0222
63	1-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					

212	Atrazine	200	Compound Not Detected.
111	Pentachlorophenol	266	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
	115 Phenanthrene	178	Compound Not Detected.					
	116 Anthracene	178	Compound Not Detected.					
	119 Carbazole	167	Compound Not Detected.					
	120 Di-n-Butylphthalate	149	Compound Not Detected.					
	123 Fluoranthene	202	Compound Not Detected.					
	124 Benzidine	184	Compound Not Detected.					
	125 Pyrene	202	Compound Not Detected.					
	131 Butylbenzylphthalate	149	Compound Not Detected.					
	133 3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
	135 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	136 Benzo(a)Anthracene	228	Compound Not Detected.					
	137 Chrysene	228	Compound Not Detected.					
	138 4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
	139 bis(2-ethylhexyl)Phthalate	149	8.588	8.588	(0.991)	200806	0.51127	67.853
	140 Di-n-octylphthalate	149	Compound Not Detected.					
	141 Benzo(b)fluoranthene	252	Compound Not Detected.					
	142 Benzo(k)fluoranthene	252	Compound Not Detected.					
	146 Benzo(a)pyrene	252	Compound Not Detected.					
	149 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
	151 Benzo(g,h,i)perylene	276	Compound Not Detected.					
	198 1,4-Dioxane	88	Compound Not Detected.					
$	154 Nitrobenzene-d5	82	3.860	3.844	(0.884)	473448	2.68491	356.32
$	155 2-Fluorobiphenyl	172	5.123	5.117	(0.910)	970901	3.02860	401.94
$	156 Terphenyl-d14	244	7.850	7.845	(0.906)	1303475	3.68113	488.54
$	157 Phenol-d5	99	3.261	3.181	(0.931)	844014	4.83044	641.07(H)
$	158 2-Fluorophenol	112	2.839	2.603	(0.811)	709647	5.31517	705.40(H)
$	159 2,4,6-Tribromophenol	330	6.203	6.198	(1.102)	192450	4.86545	645.71
$	186 2-Chlorophenol-d4	132	3.379	3.315	(0.965)	710803	5.17990	687.44
$	187 1,2-Dichlorobenzene-d4	152	3.609	3.582	(1.031)	265718	2.82972	375.54
M	195 Cresols, total	100	Compound Not Detected.					
	101 Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

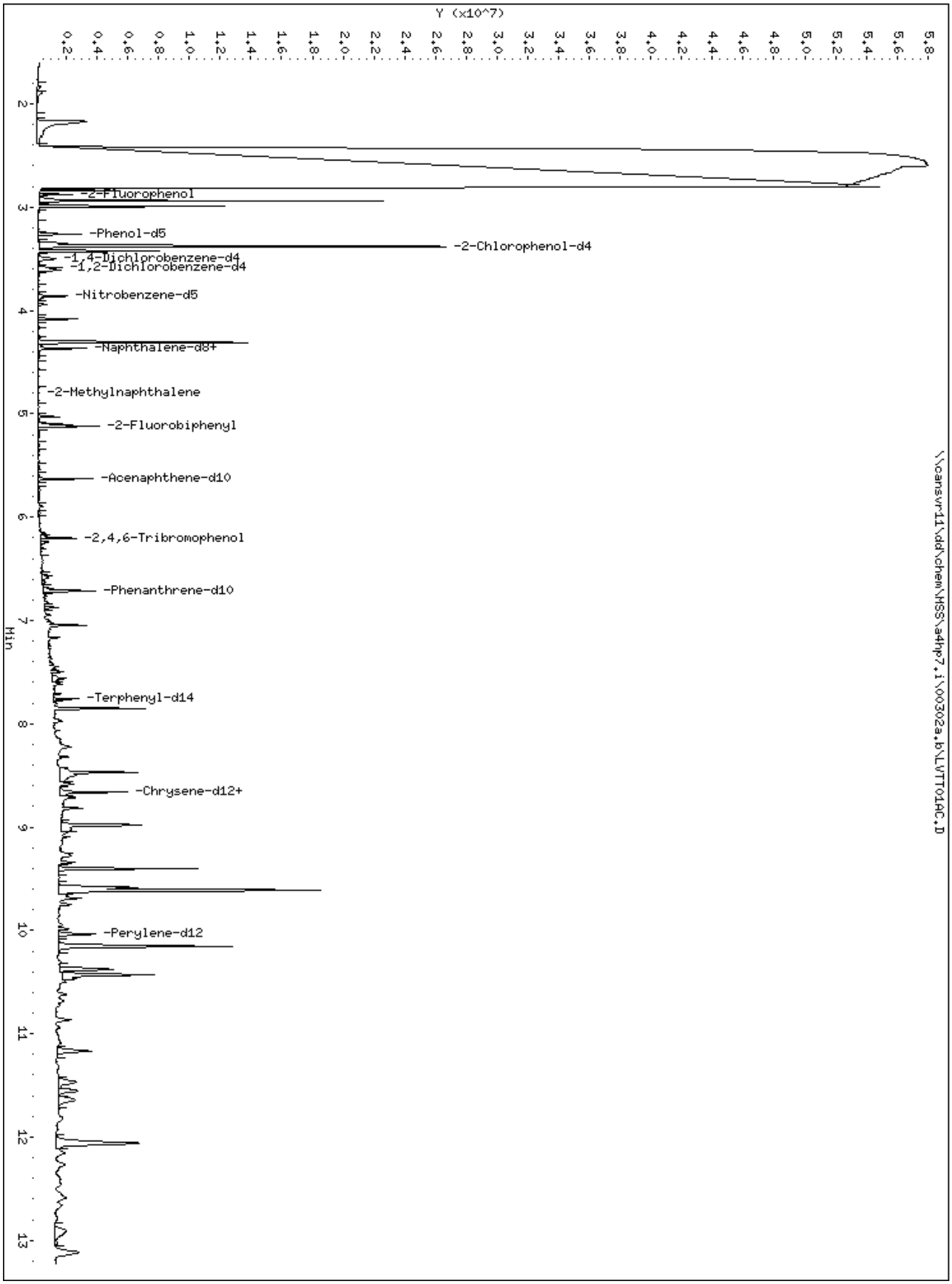
Instrument ID: a4hp7.i
Lab File ID: LVTT01AC.D
Lab Smp Id: lvtt01ac
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Client Smp ID: ATASS-015M-5036-SO
Level: LOW
Sample Type: SOIL

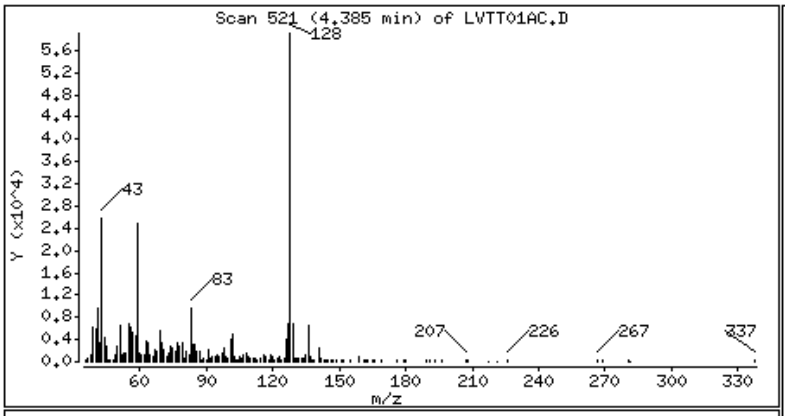
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	233550	-25.72
2 Naphthalene-d8	1302947	651474	2605894	997189	-23.47
3 Acenaphthene-d10	667302	333651	1334604	565293	-15.29
4 Phenanthrene-d10	1052286	526143	2104572	909397	-13.58
5 Chrysene-d12	1252372	626186	2504744	1141653	-8.84
6 Perylene-d12	1122003	561002	2244006	1080777	-3.67

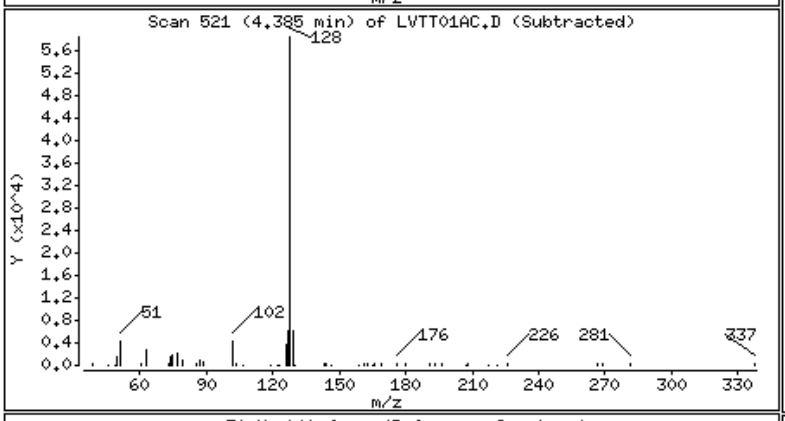
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.50	0.93
2 Naphthalene-d8	4.36	3.86	4.86	4.37	0.25
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.10
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	0.00
5 Chrysene-d12	8.66	8.16	9.16	8.66	0.00
6 Perylene-d12	10.03	9.53	10.53	10.04	0.11

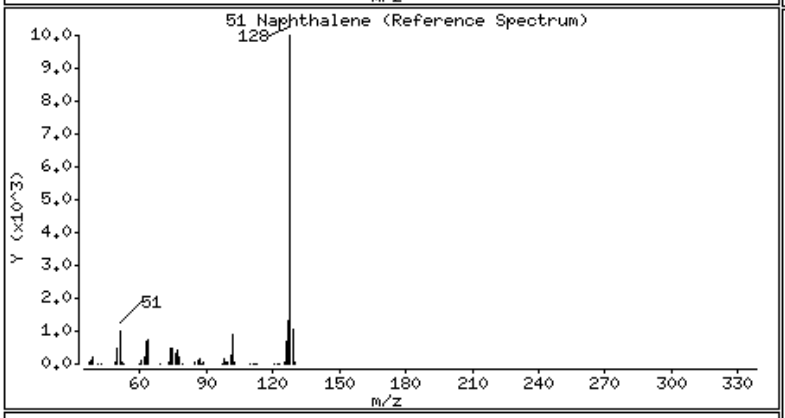
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

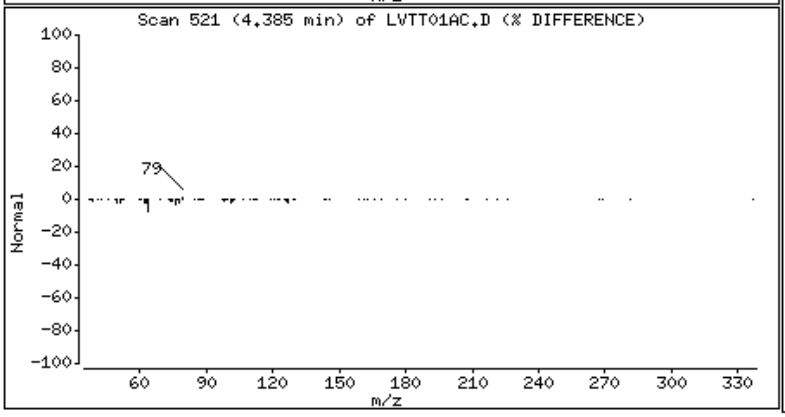

Y (x10^7)
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8+
-2-Methylnaphthalene
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
Min
\\cansvr11\dd\chem\HSS\a4hp7.i\00302a.b\LVTT010C.D

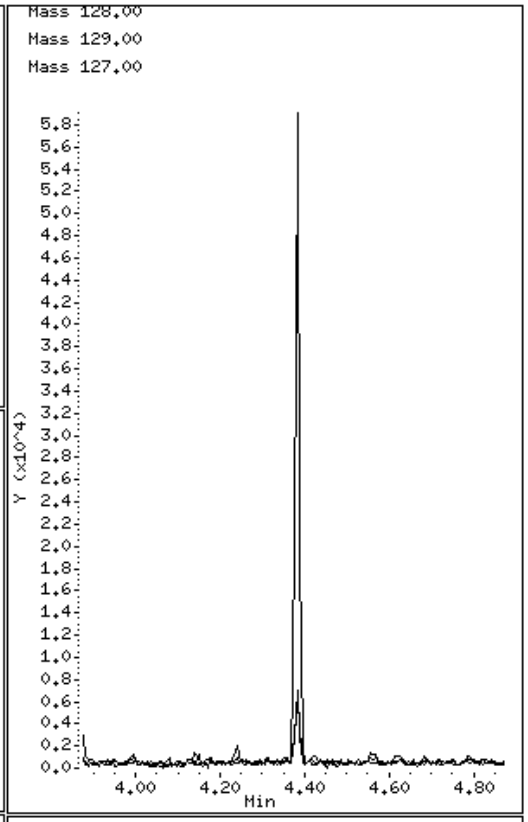
51 Naphthalene

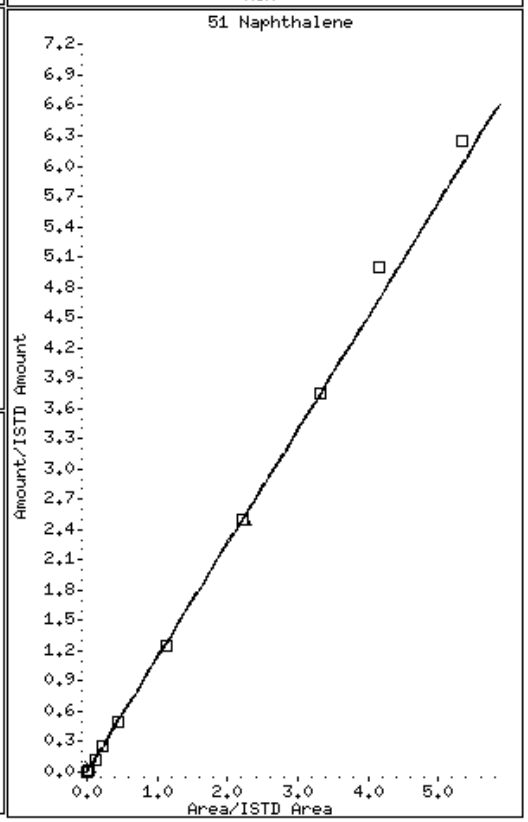




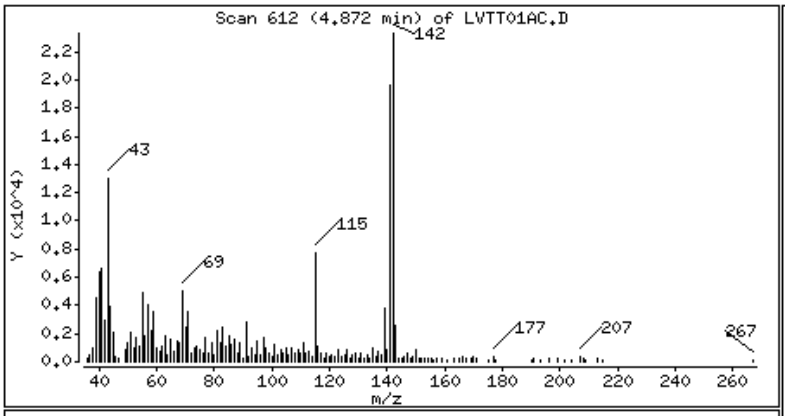


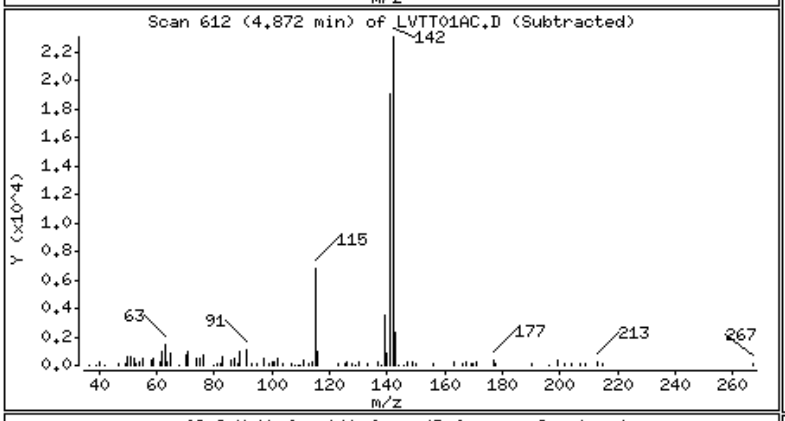


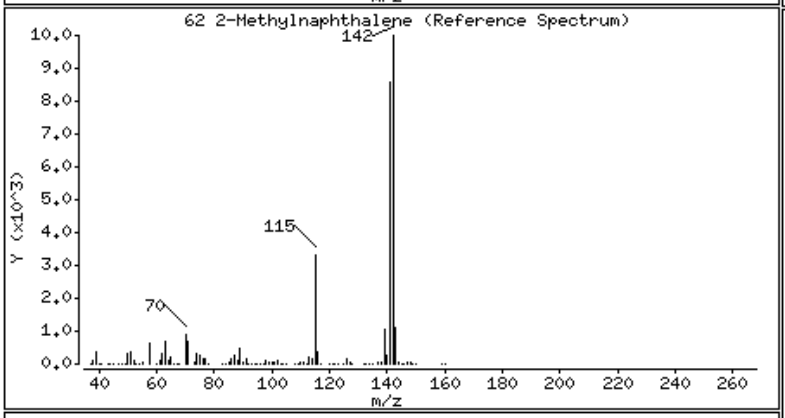


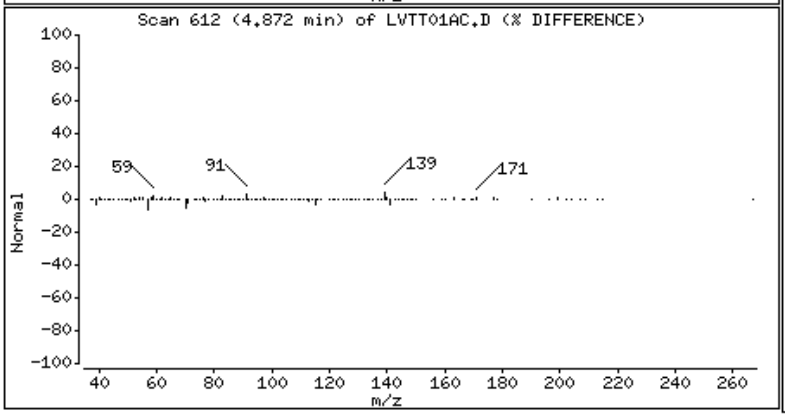


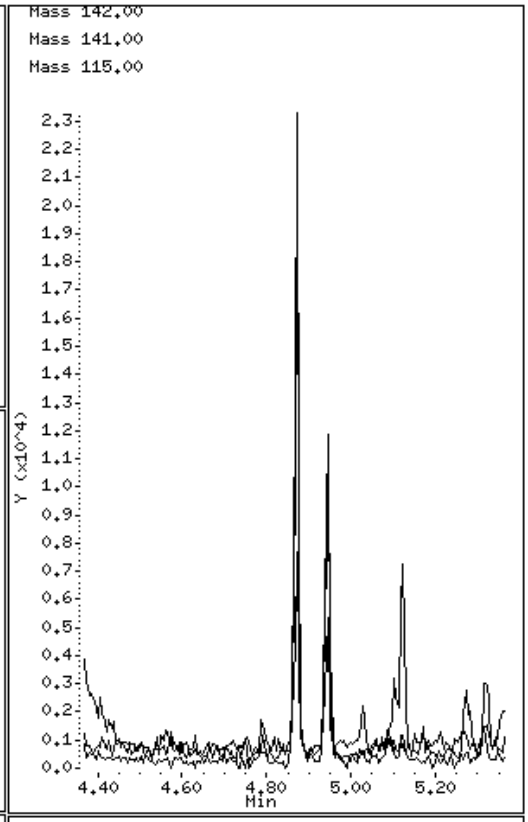
62 2-Methylnaphthalene

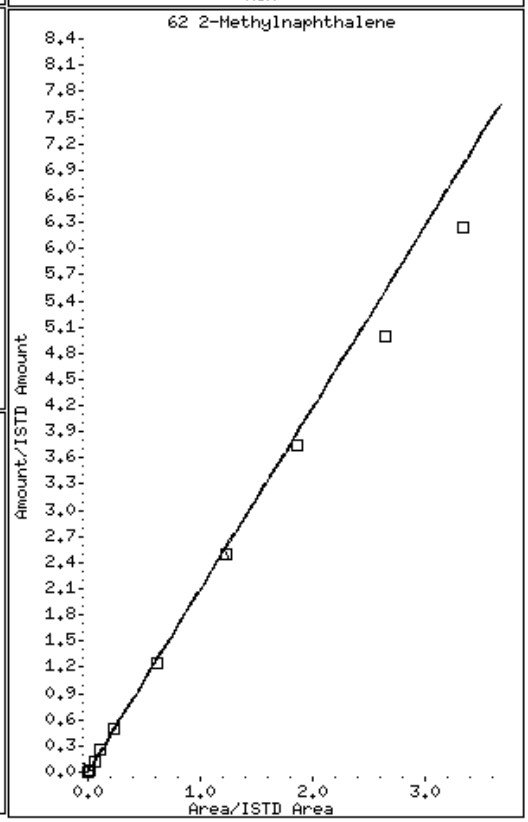




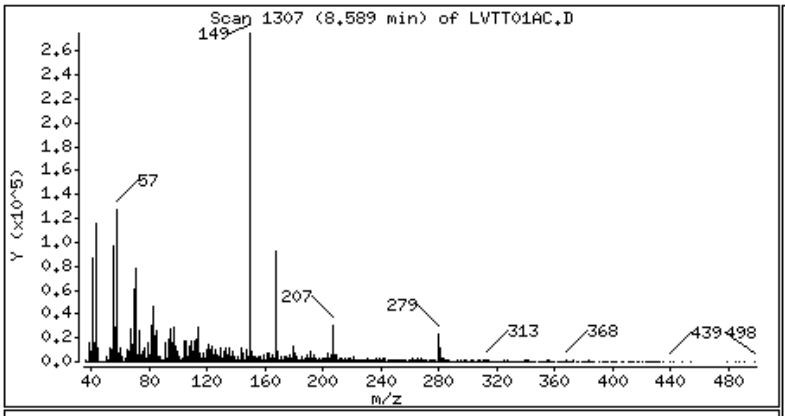


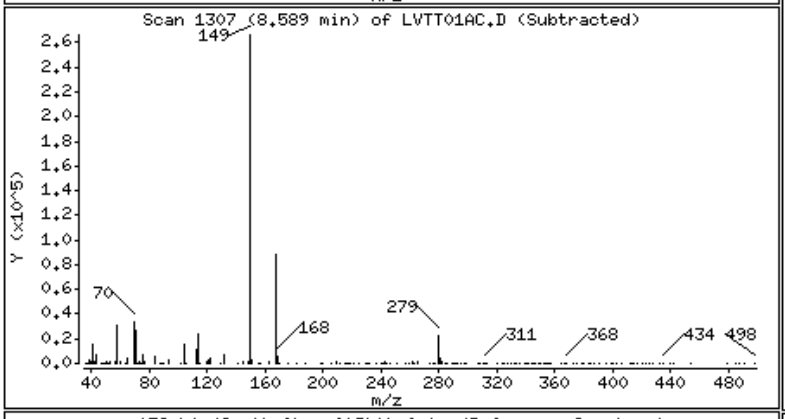


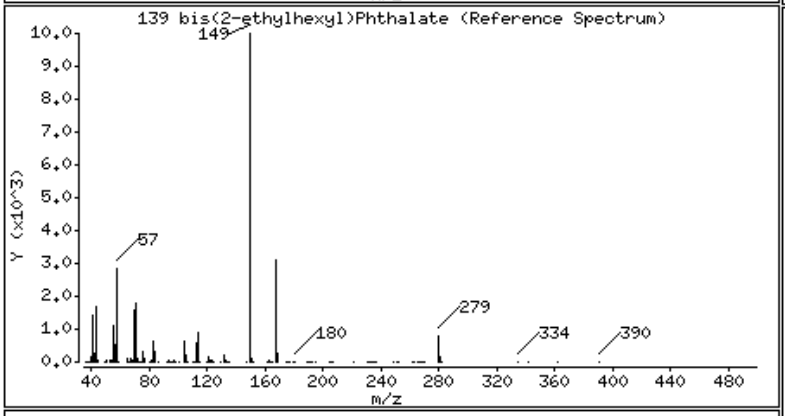


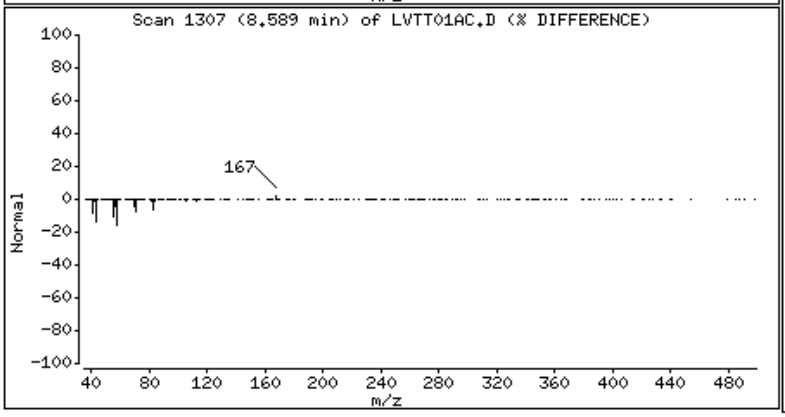


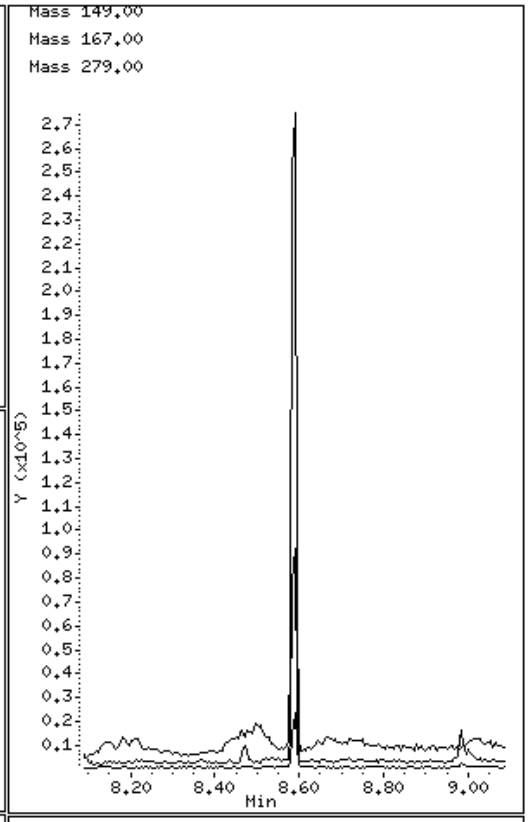
139 bis(2-ethylhexyl)Phthalate

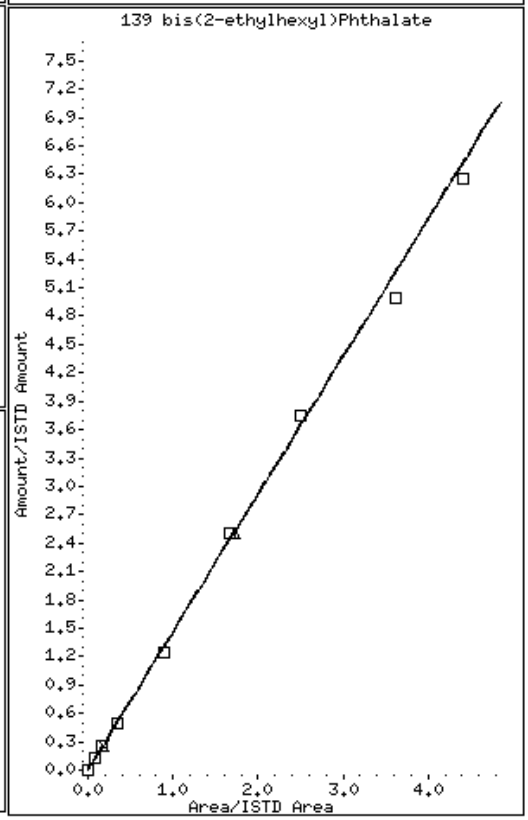












TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 02-Mar-2010 10:20

Calibration History

Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Start Cal Date: 01-MAR-2010 15:23
End Cal Date : 01-MAR-2010 20:53
Last Cal Level: 2
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
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01-MAR-2010 16:22	1-827042d	
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Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

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dt 3/2/10

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 15:23
End Cal Date : 01-MAR-2010 20:53
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Calibration File Names:
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Level 2: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AL0301.D
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Level 8: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AHH0301.D
Level 9: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AHHH0301.D

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	___ RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
198 1,4-Dioxane	+++++	0.50845	0.47636	0.49021	0.48996	0.44596			
	0.44560	0.49064	0.52069				0.48348	5.550	<-
7 N-Nitrosomorpholine	+++++	0.78369	0.82711	0.79810	0.78680	0.84788			
	0.83062	0.89767	0.85987				0.82897	4.743	<-
8 Ethyl methanesulfonate	+++++	0.98321	0.96220	0.94677	0.94172	0.98529			
	0.97820	1.05332	0.98989				0.98008	3.535	<-
9 Pyridine	+++++	1.29850	1.24481	1.25633	1.28432	1.22243			
	1.23018	1.38250	1.36026				1.28492	4.624	<-
10 N-Nitrosodimethylamine	+++++	0.77550	0.73051	0.72139	0.75876	0.70443			
	0.70619	0.78113	0.75319				0.74139	4.049	<-
11 Ethyl methacrylate	+++++	1.15295	1.09457	1.11121	1.14700	1.05919			
	1.06170	1.16688	1.18172				1.12190	4.210	<-
12 3-Chloropropionitrile	+++++	0.93954	0.87583	0.84389	0.89278	0.82368			
	0.82215	0.91963	0.88051				0.87475	4.907	<-
13 Malononitrile	+++++	1.63700	1.66469	1.61183	1.68708	1.60935			
	1.62793	1.74498	1.65965				1.65531	2.725	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 15:23
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Quant Method : ISTD
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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
14 2-Picoline	+++++	1.49525	1.45687	1.38962	1.37457	1.37166			
	1.39932	1.49871	1.47825				1.43303	3.822	<-
15 N-Nitrosomethylethylamine	+++++	0.64533	0.67303	0.63000	0.63503	0.64731			
	0.64885	0.70402	0.66821				0.65647	3.686	<-
16 Methyl methanesulfonate	+++++	0.72976	0.69989	0.68271	0.67578	0.70151			
	0.69912	0.74599	0.69474				0.70369	3.315	<-
18 1,3-Dichloro-2-propanol	+++++	1.38266	1.43532	1.35577	1.40091	1.44749			
	1.45357	1.57351	1.47390				1.44039	4.631	<-
19 N-Nitrosodiethylamine	+++++	0.62039	0.64868	0.62699	0.63436	0.67112			
	0.66336	0.71548	0.67374				0.65676	4.733	<-
21 Aniline	+++++	1.97618	2.02876	2.00756	2.06687	1.95826			
	1.96257	2.20092	2.15901				2.04502	4.471	<-
22 Phenol	+++++	1.44702	1.51100	1.54014	1.64870	1.58755			
	1.60863	1.78992	1.75127				1.61053	7.255	<-
23 bis(2-Chloroethyl)ether	1.45436	1.35033	1.36924	1.30342	1.39872	1.40709			
	1.33858	1.57355	1.59846				1.42153	7.245	
24 2-Chlorophenol	+++++	1.20215	1.20640	1.22538	1.31537	1.26793			
	1.26810	1.40841	1.36992				1.28296	5.929	<-
25 Pentachloroethane	+++++	0.42698	0.43462	0.41812	0.42206	0.43735			
	0.43305	0.47019	0.45238				0.43684	3.907	<-
26 1,3-Dichlorobenzene	+++++	1.33019	1.29925	1.29685	1.35755	1.26389			
	1.28907	1.42642	1.41816				1.33517	4.539	<-

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Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
27 1,4-Dichlorobenzene	+++++	1.31245	1.29225	1.26387	1.31642	1.25799			
	1.26614	1.41115	1.37655				1.31210	4.248	<-
28 1,2-Dichlorobenzene	+++++	1.24768	1.22245	1.22894	1.28445	1.23201			
	1.24828	1.37682	1.36845				1.27614	4.900	<-
29 Benzyl Alcohol	+++++	0.79702	0.78051	0.79619	0.84100	0.83001			
	0.84367	0.93004	0.92432				0.84284	6.737	<-
30 2-Methylphenol	+++++	0.91990	0.99184	1.04658	1.13863	1.14284			
	1.14067	1.27596	1.29070				1.11839	11.540	<-
31 bis(2-Chloroisopropyl)ether	+++++	2.35833	2.26378	2.22544	2.26639	2.15537			
	2.09977	2.29856	2.32013				2.24847	3.818	<-
32 N-Nitroso-di-n-propylamine	+++++	0.92964	0.94425	0.93386	0.99548	0.96012			
	0.94833	1.04159	1.05889				0.97652	5.120	<-
M 195 Cresols, total	+++++	1.68191	1.86117	2.03749	2.30185	2.29951			
	2.34167	2.61543	2.60974				2.21860	15.120	<-
192 4-Methylphenol	+++++	0.76201	0.86933	0.99091	1.16322	1.15667			
	1.20100	1.33947	1.31904				1.10021	18.882	<-
193 3-Methylphenol	+++++	+++++	0.64074	0.77266	0.93504	1.11287			
	1.13374	1.21865	1.21694				1.00438	22.643	<-
34 Hexachloroethane	+++++	0.52620	0.50260	0.50033	0.52042	0.50163			
	0.50423	0.56572	0.55435				0.52193	4.888	<-
35 Nitrobenzene	0.31934	0.33699	0.32338	0.32616	0.33228	0.32098			
	0.32159	0.34552	0.34019				0.32960	2.881	

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Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
36 N-Nitrosopyrrolidine	+++++	0.58217	0.59021	0.60330	0.65226	0.70227			
	0.70390	0.75996	0.72800				0.66526	10.213	<-
37 Acetophenone	+++++	1.75287	1.71482	1.71472	1.78271	1.73379			
	1.72822	1.89149	1.89773				1.77704	4.269	<-
39 o-Toluidine	+++++	1.97454	1.97823	1.91239	1.95460	2.08812			
	1.93659	1.99897	1.80071				1.95552	4.169	<-
40 N-Nitrosopiperidine	+++++	0.13759	0.14557	0.14289	0.14701	0.15863			
	0.15611	0.17140	0.16512				0.15304	7.643	<-
41 Isophorone	+++++	0.57818	0.58627	0.59977	0.61350	0.60853			
	0.60986	0.65634	0.66211				0.61432	4.925	<-
42 2-Nitrophenol	+++++	0.14418	0.14787	0.15809	0.16709	0.16438			
	0.16942	0.18225	0.17789				0.16390	8.163	<-
43 2,4-Dimethylphenol	+++++	0.20776	0.21263	0.24589	0.28072	0.28411			
	0.29576	0.31805	0.31740				0.27029	16.114	<-
44 bis(2-Chloroethoxy)methane	+++++	0.35603	0.34523	0.35757	0.36310	0.36326			
	0.36087	0.38591	0.38412				0.36451	3.812	<-
45 O,O,O-Triethyl phosphorothioa	+++++	0.13203	0.13547	0.12906	0.13563	0.14476			
	0.14479	0.15812	0.14944				0.14116	6.957	<-
46 2,4-Toluenediamene	+++++	0.12927	0.15616	0.13561	0.11762	0.14819			
	0.12688	0.13172	0.13405				0.13494	9.008	<-
47 1,3,5-Trichlorobenzene	+++++	0.25903	0.24614	0.25111	0.25319	0.24876			
	0.25196	0.27265	0.26713				0.25625	3.636	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
48 2,4-Dichlorophenol	+++++	0.13133	0.11860	0.15895	0.18534	0.20736			
	0.21979	0.23649	0.23324				0.18639	24.537	<-
49 Benzoic Acid	+++++	+++++	0.07211	0.10123	0.16966	0.20268			
	0.23896	0.25516	0.26885				0.18695	40.940	<-
50 1,2,4-Trichlorobenzene	+++++	0.24947	0.24774	0.24483	0.24550	0.24649			
	0.24443	0.26614	0.26072				0.25067	3.260	<-
51 Naphthalene	0.91565	0.91688	0.90080	0.89703	0.91131	0.89025			
	0.88333	0.83347	0.85562				0.88937	3.185	
52 4-Chloroaniline	+++++	0.25339	0.30711	0.27798	0.33185	0.34059			
	0.35511	0.38075	0.38391				0.32884	14.225	<-
53 a,a-Dimethyl-phenethylamine	+++++	+++++	+++++	0.53981	0.48607	0.58731			
	0.74856	0.82773	0.72700				0.65275	20.569	<-
54 2,6-Dichlorophenol	+++++	0.13504	0.14295	0.16922	0.18366	0.20994			
	0.22187	0.24916	0.23821				0.19376	22.096	<-
55 Hexachloropropene	+++++	0.15033	0.15283	0.15396	0.15175	0.15863			
	0.15820	0.17584	0.16806				0.15870	5.620	<-
56 Hexachlorobutadiene	0.13048	0.12774	0.12415	0.12433	0.13068	0.12804			
	0.12995	0.14017	0.13675				0.13026	4.067	
57 1,2,3-Trichlorobenzene	+++++	0.22564	0.21680	0.22456	0.23163	0.22947			
	0.23124	0.25196	0.24761				0.23236	5.079	<-
58 N-Nitrosodi-n-butylamine	+++++	0.17711	0.19920	0.20553	0.21396	0.22991			
	0.22632	0.24749	0.23643				0.21699	10.465	<-

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Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
59 4-Chloro-3-Methylphenol	+++++	0.20549	0.22241	0.24617	0.26283	0.26418			
	0.27050	0.29068	0.29544				0.25721	12.158	<-
60 p-Phenylene diamine	+++++	+++++	+++++	0.25851	0.28268	0.29766			
	0.30555	0.32439	0.28549				0.29238	7.670	<-
61 Safrole	+++++	0.20500	0.21744	0.22038	0.22702	0.23874			
	0.24003	0.26121	0.25021				0.23250	7.952	<-
62 2-Methylnaphthalene	0.39727	0.45358	0.45356	0.47118	0.49835	0.49024			
	0.49743	0.53081	0.53558				0.48089	8.923	
63 1-Methylnaphthalene	0.53743	0.51963	0.53387	0.54778	0.57399	0.55572			
	0.56696	0.61158	0.61309				0.56223	5.855	
64 Hexachlorocyclopentadiene	+++++	0.25513	0.25439	0.26885	0.29097	0.28813			
	0.29260	0.31834	0.29749				0.28324	7.822	<-
65 1,2,4,5-Tetrachlorobenzene	+++++	0.39576	0.43364	0.40604	0.40330	0.42982			
	0.42673	0.46970	0.45854				0.42794	6.144	<-
66 2,4,6-Trichlorophenol	+++++	0.23267	0.25064	0.25759	0.29388	0.29773			
	0.30717	0.33392	0.32244				0.28700	12.608	<-
67 2,4,5-Trichlorophenol	+++++	0.28591	0.28339	0.31371	0.32148	0.32661			
	0.33335	0.36088	0.34796				0.32166	8.471	<-
68 1,2,3,5-Tetrachlorobenzene	+++++	0.43371	0.44565	0.44053	0.45252	0.44869			
	0.45629	0.49801	0.47430				0.45621	4.544	<-
69 1,4-Dinitrobenzene	+++++	+++++	0.12677	0.14718	0.15812	0.18440			
	0.18829	0.20641	0.20013				0.17304	17.080	<-

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Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	___ RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
70 2-Chloronaphthalene	0.96743	0.98303	0.96477	0.97349	1.01038	0.98821			
	1.00312	1.08110	1.04884				1.00226	3.939	
71 Isosafrole 1	+++++	0.15297	0.15112	0.13648	0.14008	0.15105			
	0.15162	0.16624	0.16545				0.15188	6.903	<-
M 188 Isosafrole, Total	+++++	0.92392	1.00888	0.93032	0.93483	1.01948			
	1.02071	1.12042	1.09270				1.00641	7.373	<-
72 Isosafrole 2	+++++	0.77095	0.85776	0.79384	0.79474	0.86843			
	0.86909	0.95418	0.92725				0.85453	7.645	<-
73 2-Nitroaniline	+++++	0.31457	0.33159	0.34673	0.36113	0.34318			
	0.34747	0.37323	0.37859				0.34956	6.056	<-
74 1,2,3,4-Tetrachlorobenzene	+++++	0.39962	0.40529	0.39211	0.40877	0.41090			
	0.41190	0.44885	0.42813				0.41320	4.302	<-
75 1,4-Naphthoquinone	+++++	0.23965	0.30623	0.33777	0.35338	0.38399			
	0.35523	0.40629	0.38968				0.34653	15.457	<-
76 Dimethylphthalate	+++++	1.14476	1.13231	1.09233	1.14746	1.13752			
	1.15306	1.24119	1.27289				1.16519	5.171	<-
77 m-Dinitrobenzene	+++++	+++++	0.17137	0.18455	0.18981	0.21206			
	0.21107	0.22678	0.22508				0.20296	10.481	<-
78 2,6-Dinitrotoluene	+++++	0.23801	0.23537	0.25019	0.26737	0.27427			
	0.28087	0.30348	0.30939				0.26987	10.321	<-
79 Acenaphthylene	1.55957	1.64177	1.63058	1.64390	1.68389	1.65189			
	1.65214	1.70546	1.74763				1.65743	3.159	

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
80 1,2-Dinitrobenzene	+++++	0.11150	0.11562	0.12697	0.13032	0.13442			
	0.13789	0.15088	0.15820				0.13322	11.998	<-
81 3-Nitroaniline	+++++	0.29945	0.29074	0.29221	0.31279	0.31145			
	0.31054	0.33958	0.35094				0.31346	6.889	<-
82 Acenaphthene	1.16020	1.08255	1.07208	1.05763	1.09538	1.06998			
	1.07633	1.14014	1.13507				1.09882	3.346	
83 2,4-Dinitrophenol	+++++	+++++	+++++	0.14855	0.19146	0.22514			
	0.22642	0.24097	0.25592				0.21474	18.098	<-
84 Pentachlorobenzene	+++++	0.35841	0.37002	0.35188	0.34481	0.36604			
	0.36832	0.40552	0.39600				0.37013	5.643	<-
85 4-Nitrophenol	+++++	+++++	+++++	0.11636	0.13687	0.14510			
	0.15491	0.16909	0.18370				0.15101	15.799	<-
86 Dibenzofuran	1.36963	1.47800	1.42529	1.39863	1.43442	1.41048			
	1.44471	1.50442	1.49306				1.43985	3.127	
87 2,4-Dinitrotoluene	+++++	0.31379	0.33718	0.35817	0.36049	0.37323			
	0.37843	0.41319	0.43668				0.37139	10.598	<-
88 2,3,4,6-Tetrachlorophenol	+++++	+++++	0.20535	0.21049	0.22455	0.25280			
	0.25848	0.29167	0.28054				0.24627	13.723	<-
89 1-Naphthylamine	+++++	0.90063	1.02183	0.99102	0.95470	0.89172			
	0.75514	0.69404	0.63268				0.85522	16.830	<-
90 Zinophos	+++++	0.21309	0.25725	0.25330	0.24628	0.27229			
	0.26302	0.28486	0.27941				0.25869	8.745	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
91 2,3,5,6-Tetrachlorophenol	+++++	0.21801	0.25928	0.25753	0.25772	0.27647			
	0.28781	0.31322	0.31785				0.27349	12.003	<-
92 2-Naphthylamine	+++++	1.00272	1.13111	1.06500	0.97806	0.94180			
	0.78694	0.71498	+++++				0.94580	15.644	<-
93 Diethylphthalate	+++++	1.21692	1.20092	1.15092	1.18805	1.17597			
	1.18581	1.27952	1.35171				1.21873	5.385	<-
94 Fluorene	1.19848	1.20477	1.24045	1.18616	1.23167	1.21458			
	1.21994	1.30270	1.34187				1.23785	4.163	
95 4-Chlorophenyl-phenylether	+++++	0.52850	0.52934	0.51876	0.52909	0.53044			
	0.54661	0.59197	0.60430				0.54738	5.920	<-
96 4-Nitroaniline	+++++	0.26383	0.26880	0.28416	0.33505	0.33892			
	0.33184	0.35224	0.40598				0.32260	14.896	<-
97 5-Nitro-o-toluidine	+++++	0.24504	0.29143	0.30976	0.31494	0.33095			
	0.29867	0.29804	0.29816				0.29837	8.363	<-
98 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	0.12107	0.13995	0.14503			
	0.14609	0.16441	0.16166				0.14637	10.769	<-
99 N-Nitrosodiphenylamine	+++++	0.55153	0.54760	0.54713	0.55321	0.55811			
	0.55042	0.59113	0.56733				0.55831	2.650	<-
100 1,2-Diphenylhydrazine	+++++	0.84854	0.85348	0.82419	0.84957	0.82724			
	0.80311	0.86071	0.82141				0.83603	2.378	<-
101 Diphenylamine	+++++	0.55153	0.54760	0.54713	0.55321	0.55811			
	0.55042	0.59113	0.56733				0.55831	2.650	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
102 Tetraethyl dithiopyrophosphat	+++++	0.07367	0.07787	0.07835	0.08174	0.08743			
	0.08837	0.09659	0.09266				0.08458	9.404	<-
103 Diallate 1	+++++	0.57840	0.58086	0.57377	0.56045	0.58680			
	0.55185	0.58776	0.57732				0.57465	2.183	<-
M 189 Diallate, Total	+++++	2.54156	2.51624	2.52904	2.49221	2.79765			
	2.57746	2.78730	2.61523				2.60709	4.620	<-
104 Phorate	+++++	0.14060	0.15421	0.15569	0.15323	0.16470			
	0.15489	0.16621	0.16222				0.15647	5.217	<-
105 1,3,5-Trinitrobenzene	+++++	+++++	+++++	0.05276	0.06502	0.07722			
	0.07859	0.08722	0.08552				0.07439	17.733	<-
106 4-Bromophenyl-phenylether	+++++	0.19125	0.18703	0.19005	0.19096	0.19786			
	0.19814	0.21523	0.20699				0.19719	4.890	<-
107 Hexachlorobenzene	0.20130	0.18160	0.18460	0.18086	0.18521	0.19083			
	0.19136	0.20774	0.19689				0.19115	4.847	
108 Phenacetin	+++++	0.25154	0.31807	0.32189	0.34852	0.36189			
	0.35229	0.36957	0.36557				0.33617	11.656	<-
109 Diallate 2	+++++	0.10900	0.10669	0.11244	0.10858	0.11707			
	0.11246	0.12223	0.11779				0.11328	4.718	<-
110 Dimethoate	+++++	0.17623	0.23686	0.26253	0.27759	0.29516			
	0.25305	0.28110	0.28581				0.25854	14.799	<-
111 Pentachlorophenol	+++++	0.08998	0.10824	0.11729	0.12851	0.14111			
	0.14890	0.14905	0.15069				0.12922	17.318	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 15:23
End Cal Date : 01-MAR-2010 20:53
Quant Method : ISTD
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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
112 Pentachloronitrobenzene	+++++	0.06683	0.07409	0.07030	0.07218	0.07456			
	0.07137	0.07613	0.07404				0.07244	4.066	<-
113 4-Aminobiphenyl	+++++	0.58318	0.66005	0.68311	0.64891	0.63357			
	0.59312	0.58517	0.54881				0.61699	7.476	<-
114 Pronamide	+++++	0.25136	0.26927	0.27389	0.28476	0.30959			
	0.30283	0.32838	0.32091				0.29262	9.253	<-
115 Phenanthrene	1.15360	1.06754	1.08692	1.07775	1.09515	1.09378			
	1.04775	1.05085	1.05106				1.08049	3.064	
116 Anthracene	1.15429	1.10917	1.11815	1.06638	1.11175	1.10785			
	1.04595	1.04309	1.03746				1.08823	3.777	
117 Dinoseb	+++++	+++++	0.10328	0.12993	0.16194	0.18478			
	0.18944	0.20731	0.19817				0.16784	22.910	<-
118 Disulfoton	+++++	0.35474	0.39024	0.39485	0.39283	0.41864			
	0.40139	0.42943	0.41890				0.40013	5.818	<-
119 Carbazole	+++++	0.99734	1.01814	1.02410	1.06120	1.04671			
	1.02661	1.08765	1.06423				1.04075	2.831	<-
120 Di-n-Butylphthalate	+++++	1.22093	1.24497	1.24979	1.30665	1.28900			
	1.11621	1.04984	1.08946				1.19585	8.113	<-
121 4-Nitroquinoline 1-oxide	+++++	+++++	+++++	0.04423	0.07014	0.08661			
	0.09809	0.11211	0.10741				0.08643	29.641	<-
122 Methapyrilene	+++++	0.21388	0.29788	0.29673	0.31981	0.35220			
	0.31840	0.32446	0.36327				0.31083	14.669	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 15:23
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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
123 Fluoranthene	1.18136	1.07352	1.07248	1.06826	1.10419	1.10408			
	1.09657	1.08962	1.05983				1.09443	3.322	
124 Benzidine	+++++	0.44726	0.50113	0.53589	0.59896	0.57896			
	0.57815	0.63714	0.60355				0.56013	11.049	<-
125 Pyrene	0.97955	1.00880	1.02383	0.99639	1.02394	0.98059			
	0.97834	0.96509	0.90538				0.98466	3.688	
126 Aramite 1	+++++	0.03402	0.03519	0.03818	0.04233	0.04461			
	0.04395	0.04871	0.04705				0.04176	12.975	<-
M 191 Aramite, Total	+++++	0.37315	0.39918	0.44159	0.47638	0.56615			
	0.52283	0.58708	0.53573				0.48776	16.028	<-
127 Aramite 2	+++++	0.06167	0.06592	0.07149	0.07592	0.07929			
	0.08010	0.09016	0.08639				0.07637	12.736	<-
128 p-Dimethylamino azobenzene	+++++	0.15314	0.16693	0.17557	0.18967	0.20162			
	0.20797	0.23170	0.23028				0.19461	14.725	<-
129 p-Chlorobenzilate	+++++	0.30409	0.33198	0.33044	0.33198	0.34629			
	0.33641	0.36609	0.36234				0.33870	5.829	<-
130 Famphur	+++++	0.07429	0.12944	0.15438	0.12826	0.06908			
	0.01809	0.01341	0.01205				0.07488	76.771	<-
131 Butylbenzylphthalate	+++++	0.46200	0.47099	0.47715	0.49581	0.47535			
	0.46959	0.51236	0.50509				0.48354	3.805	<-
132 3,3'-Dimethylbenzidine	+++++	0.34897	0.45725	0.48483	0.45412	0.35695			
	0.28509	0.25820	0.24058				0.36075	26.560	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 15:23
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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD
	7.500 Level 7	10.000 Level 8	12.500 Level 9					
133 3,3'-Dimethoxybenzidine	+++++	0.16972	0.18910	0.21009	0.22811	0.20459		
	0.20078	0.22598	0.20565				0.20425	9.273 <-
134 2-Acetylaminofluorene	+++++	+++++	0.32545	0.36905	0.40274	0.47421		
	0.46149	0.51843	0.51165				0.43758	16.798 <-
135 3,3'-Dichlorobenzidine	+++++	0.33089	0.33608	0.34869	0.36082	0.35783		
	0.35633	0.39384	0.38902				0.35919	6.268 <-
136 Benzo(a)Anthracene	1.11660	0.97799	0.98136	0.94274	0.97724	0.93558		
	0.94913	1.03657	0.96815				0.98726	5.758
137 Chrysene	0.92868	0.94246	0.93553	0.91931	0.94590	0.89998		
	0.88377	0.91389	0.89104				0.91784	2.448
138 4,4'-Methylene bis(o-chloroan	+++++	0.16080	0.17336	0.17502	0.18923	0.18550		
	0.18684	0.20938	0.20602				0.18577	8.806 <-
139 bis(2-ethylhexyl)Phthalate	+++++	0.65815	0.69123	0.68297	0.70901	0.66657		
	0.66505	0.72445	0.70695				0.68805	3.492 <-
140 Di-n-octylphthalate	+++++	1.08720	1.14642	1.19425	1.29913	1.24600		
	1.21162	1.25808	1.16498				1.20096	5.656 <-
141 Benzo(b)fluoranthene	0.89557	0.91303	0.93824	1.00902	1.01364	0.99009		
	1.00703	1.08102	1.22078				1.00760	9.767
142 Benzo(k)fluoranthene	1.15520	1.11763	1.09448	1.03110	1.11856	1.10382		
	1.08946	1.22825	1.08247				1.11344	4.892
143 7,12-dimethylbenz[a]anthracen	+++++	0.41341	0.44742	0.44139	0.44805	0.49194		
	0.49465	0.53331	0.53152				0.47521	9.302 <-

TestAmerica North Canton

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
146 Benzo(a)pyrene	0.93418	0.91973	0.90146	0.89725	0.96676	0.96201			
	0.96683	1.06505	1.05074				0.96267	6.250	
148 3-Methylcholanthrene	+++++	0.40174	0.43791	0.46126	0.48013	0.53909			
	0.54781	0.59984	0.59230				0.50751	14.375	<-
149 Indeno(1,2,3-cd)pyrene	0.95413	0.97802	1.03241	1.04044	1.10608	1.08255			
	1.08252	1.18696	1.19403				1.07302	7.711	
150 Dibenz(a,h)anthracene	0.75955	0.84442	0.82591	0.85939	0.93473	0.91254			
	0.91227	0.99774	1.00173				0.89425	8.935	
151 Benzo(g,h,i)perylene	0.79048	0.79716	0.81405	0.84182	0.90684	0.88513			
	0.88900	0.97733	0.98931				0.87679	8.346	
230 2-Chloroacetophenone	+++++	0.34989	0.43114	0.46389	0.51085	0.56181			
	0.55566	0.62378	0.58712				0.51052	17.775	<-
199 3-Picoline	+++++	1.34455	1.38732	1.37442	1.36676	1.36584			
	1.37921	1.48174	1.43898				1.39235	3.249	<-
200 N,N-Dimethylacetamide	+++++	1.42240	1.58848	1.47352	1.41273	1.50298			
	1.39225	1.48335	1.37221				1.45599	4.850	<-
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

TestAmerica North Canton

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Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	7.500 Level 7	10.000 Level 8	12.500 Level 9	___ RRF	% RSD	
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
214 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
209 Benzaldehyde	+++++	0.99004	0.96079	0.95451	0.92843	0.81935	0.66226	0.64918	+++++	0.85208	16.969	<-
210 Caprolactam	+++++	0.07909	0.08573	0.09658	0.10563	0.10416	0.10545	0.11430	0.12142	0.10154	13.803	<-
211 1,1'-Biphenyl	+++++	1.36886	1.33295	1.34183	1.39391	1.36071	1.37459	1.48188	1.44359	1.38729	3.694	<-
212 Atrazine	+++++	0.11336	0.12766	0.12607	0.12597	0.13090	0.12804	0.13042	0.12526	0.12596	4.355	<-

TestAmerica North Canton

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Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
220 Diphenyl Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
216 1,3-Diethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
218 1,1,3,3-Tetramethyl-2-Thioure	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
217 1,3-Dibutyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
215 bis(2-Chloroethoxy) ethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
221 Hexabromobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
219 o-Benzyl Phenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
223 1,2-bis(2-chloroethoxy)ethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
224 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
225 1,3-Dimethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
226 Methyl parathion	+++++	0.13711	0.16507	0.20389	0.21770	0.23245			
	0.20091	0.22619	0.22613				0.20118	16.715	<-

TestAmerica North Canton

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Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
227 Parathion	+++++	+++++	0.11640	0.12914	0.13841	0.15144			
	0.14575	0.16002	0.15345				0.14209	10.721	<-
228 Isodrin	+++++	0.11456	0.10784	0.10467	0.10022	0.10484			
	0.09736	0.10424	0.10320				0.10462	4.894	<-
229 Kepone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
231 Acrylamide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
232 2-Methylcyclohexanone	+++++	0.75626	0.77858	0.81198	0.82479	0.78675			
	0.77650	0.88324	0.80697				0.80313	4.881	<-
233 3-Methylcyclohexanone	+++++	1.31807	1.29861	1.33238	1.34527	1.31276			
	1.27547	1.45533	1.34327				1.33514	4.034	<-
234 4-Methylcyclohexanone	+++++	1.21672	1.27848	1.32639	1.31498	1.22787			
	1.23578	1.39028	1.30868				1.28740	4.605	<-
235 Tributyl phosphate	+++++	1.37540	1.48067	1.56614	1.49890	1.59501			
	1.56311	1.65963	1.68729				1.55327	6.490	<-
236 Phenyl sulfone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
237 3,4-Dichloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
239 N-methyl-pyrrolidone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

TestAmerica North Canton

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Last Edit : 02-Mar-2010 09:11 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
$ 154 Nitrobenzene-d5	0.36096	0.36449	0.34847	0.35719	0.35939	0.34107			
	0.33962	0.35852	0.35331				0.35367	2.494	
$ 155 2-Fluorobiphenyl	1.05794	1.09154	1.09815	1.11430	1.14982	1.12630			
	1.14530	1.23063	1.19382				1.13420	4.688	
$ 156 Terphenyl-d14	0.63176	0.60014	0.60145	0.59338	0.61960	0.61229			
	0.61131	0.66350	0.64946				0.62032	3.815	
$ 157 Phenol-d5	1.21870	1.39957	1.42799	1.44246	1.55250	1.51112			
	1.53090	1.69015	1.69312				1.49628	9.881	
$ 158 2-Fluorophenol	1.07960	1.16583	1.08939	1.10851	1.18272	1.08031			
	1.14689	1.23177	1.20504				1.14334	4.972	
$ 159 2,4,6-Tribromophenol	+++++	0.11090	0.12842	0.12665	0.13409	0.13944			
	0.14889	0.15990	0.17125				0.13994	13.892	
$ 186 2-Chlorophenol-d4	+++++	1.09743	1.10420	1.11358	1.20110	1.15759			
	1.16837	1.29628	1.26231				1.17511	6.283	<-
$ 187 1,2-Dichlorobenzene-d4	+++++	0.80288	0.77751	0.77075	0.80085	0.78177			
	0.78272	0.86635	0.85024				0.80413	4.407	

Report Date : 02-Mar-2010 10:06

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INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 15:23
End Cal Date : 01-MAR-2010 20:53
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SLL0301.D
Level 2: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AL0301.D
Level 3: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AML0301.D
Level 4: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AM0301.D
Level 5: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AMM0301.D
Level 6: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AMH0301.D
Level 7: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AH0301.D
Level 8: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AHH0301.D
Level 9: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AHHH0301.D

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
198 1,4-Dioxane	+++++	0.50845	0.47636	0.49021	0.48996	0.44596						
	0.44560	0.49064	0.52069				AVRG		0.48348		5.55018	<-
7 N-Nitrosomorpholine	+++++	0.78369	0.82711	0.79810	0.78680	0.84788						
	0.83062	0.89767	0.85987				AVRG		0.82897		4.74283	<-
8 Ethyl methanesulfonate	+++++	0.98321	0.96220	0.94677	0.94172	0.98529						
	0.97820	1.05332	0.98989				AVRG		0.98008		3.53492	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 15:23
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Quant Method : ISTD
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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
9 Pyridine	+++++	1.29850	1.24481	1.25633	1.28432	1.22243						
	1.23018	1.38250	1.36026				AVRG		1.28492		4.62394	<-
10 N-Nitrosodimethylamine	+++++	0.77550	0.73051	0.72139	0.75876	0.70443						
	0.70619	0.78113	0.75319				AVRG		0.74139		4.04878	<-
11 Ethyl methacrylate	+++++	1.15295	1.09457	1.11121	1.14700	1.05919						
	1.06170	1.16688	1.18172				AVRG		1.12190		4.20985	<-
12 3-Chloropropionitrile	+++++	0.93954	0.87583	0.84389	0.89278	0.82368						
	0.82215	0.91963	0.88051				AVRG		0.87475		4.90706	<-
13 Malononitrile	+++++	1.63700	1.66469	1.61183	1.68708	1.60935						
	1.62793	1.74498	1.65965				AVRG		1.65531		2.72513	<-
14 2-Picoline	+++++	1.49525	1.45687	1.38962	1.37457	1.37166						
	1.39932	1.49871	1.47825				AVRG		1.43303		3.82245	<-
15 N-Nitrosomethylethylamine	+++++	0.64533	0.67303	0.63000	0.63503	0.64781						
	0.64885	0.70402	0.66821				AVRG		0.65647		3.68624	<-

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Last Edit : 02-Mar-2010 09:11 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
16 Methyl methanesulfonate	+++++	0.72976	0.69989	0.68271	0.67578	0.70151						
	0.69912	0.74599	0.69474				AVRG		0.70369		3.31458	<-
18 1,3-Dichloro-2-propanol	+++++	1.38266	1.43532	1.35577	1.40091	1.44749						
	1.45357	1.57351	1.47390				AVRG		1.44039		4.63101	<-
19 N-Nitrosodiethylamine	+++++	0.62039	0.64868	0.62699	0.63436	0.67112						
	0.66336	0.71548	0.67374				AVRG		0.65676		4.73254	<-
21 Aniline	+++++	1.97618	2.02876	2.00756	2.06687	1.95826						
	1.96257	2.20092	2.15901				AVRG		2.04502		4.47058	<-
22 Phenol	+++++	1.44702	1.51100	1.54014	1.64870	1.58755						
	1.60863	1.78992	1.75127				AVRG		1.61053		7.25519	<-
23 bis(2-Chloroethyl)ether	1.45436	1.35033	1.36924	1.30342	1.39872	1.40709						
	1.33858	1.57355	1.59846				AVRG		1.42153		7.24498	
24 2-Chlorophenol	+++++	1.20215	1.20640	1.22538	1.31537	1.26793						
	1.26810	1.40841	1.36992				AVRG		1.28296		5.92908	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
25 Pentachloroethane	+++++	0.42698	0.43462	0.41812	0.42206	0.43735						
	0.43305	0.47019	0.45238				AVRG		0.43684		3.90733	<-
26 1,3-Dichlorobenzene	+++++	1.33019	1.29925	1.29685	1.35755	1.26389						
	1.28907	1.42642	1.41816				AVRG		1.33517		4.53860	<-
27 1,4-Dichlorobenzene	+++++	1.31245	1.29225	1.26387	1.31642	1.25799						
	1.26614	1.41115	1.37655				AVRG		1.31210		4.24768	<-
28 1,2-Dichlorobenzene	+++++	1.24768	1.22245	1.22894	1.28445	1.23201						
	1.24828	1.37682	1.36845				AVRG		1.27614		4.90005	<-
29 Benzyl Alcohol	+++++	0.79702	0.78051	0.79619	0.84100	0.83001						
	0.84367	0.93004	0.92432				AVRG		0.84284		6.73734	<-
30 2-Methylphenol	+++++	0.91990	0.99184	1.04658	1.13863	1.14284						
	1.14067	1.27596	1.29070				AVRG		1.11839		11.53976	<-
31 bis(2-Chloroisopropyl)ether	+++++	2.35833	2.26378	2.22544	2.26639	2.15537						
	2.09977	2.29856	2.32013				AVRG		2.24847		3.81769	<-

North Canton

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Last Edit : 02-Mar-2010 09:11 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
32 N-Nitroso-di-n-propylamine	+++++	0.92964	0.94425	0.93386	0.99548	0.96012						
	0.94833	1.04159	1.05889				AVRG		0.97652		5.12040	<-
M 195 Cresols, total	+++++	1.68191	1.86117	2.03749	2.30185	2.29951						
	2.34167	2.61543	2.60974				AVRG		2.21860		15.12000	<-
192 4-Methylphenol	+++++	33256	71664	154923	454381	1078328						
	1792990	2273997	2061674				QUAD	0.05927	0.87230	-0.01603	0.99859	<-
193 3-Methylphenol	+++++	+++++	50870	140863	428352	803385						
	1542149	1869963	1753654				QUAD	0.16219	0.87969	-0.01130	0.99922	<-
34 Hexachloroethane	+++++	0.52620	0.50260	0.50033	0.52042	0.50163						
	0.50423	0.56572	0.55435				AVRG		0.52193		4.88751	<-
35 Nitrobenzene	0.31934	0.33699	0.32338	0.32616	0.33228	0.32098						
	0.32159	0.34552	0.34019				AVRG		0.32960		2.88080	
36 N-Nitrosopyrrolidine	+++++	0.58217	0.59021	0.60330	0.65226	0.70227						
	0.70390	0.75996	0.72800				AVRG		0.66526		10.21255	<-

TestAmerica North Canton

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
37 Acetophenone	+++++	1.75287	1.71482	1.71472	1.78271	1.73379						
	1.72822	1.89149	1.89773				AVRG		1.77704		4.26926	<-
39 o-Toluidine	+++++	1.97454	1.97823	1.91239	1.95460	2.08812						
	1.93659	1.99897	1.80071				AVRG		1.95552		4.16943	<-
40 N-Nitrosopiperidine	+++++	0.13759	0.14557	0.14289	0.14701	0.15863						
	0.15611	0.17140	0.16512				AVRG		0.15304		7.64308	<-
41 Isophorone	+++++	0.57818	0.58627	0.59977	0.61350	0.60853						
	0.60986	0.65634	0.66211				AVRG		0.61432		4.92517	<-
42 2-Nitrophenol	+++++	0.14418	0.14787	0.15809	0.16709	0.16438						
	0.16942	0.18225	0.17789				AVRG		0.16390		8.16274	<-
43 2,4-Dimethylphenol	+++++	36480	71804	157896	459715	1110612						
	1864534	2312310	2157869				QUAD	0.05714	3.53683	-0.22340	0.99943	<-
44 bis(2-Chloroethoxy)methane	+++++	0.35603	0.34523	0.35757	0.36310	0.36326						
	0.36087	0.38591	0.38412				AVRG		0.36451		3.81179	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
45 O,O,O-Triethyl phosphorothioa	+++++	0.13203	0.13547	0.12906	0.13563	0.14476						
	0.14479	0.15812	0.14944				AVRG		0.14116		6.95720	<-
46 2,4-Toluenediamene	+++++	0.12927	0.15616	0.13561	0.11762	0.14819						
	0.12688	0.13172	0.13405				AVRG		0.13494		9.00835	<-
47 1,3,5-Trichlorobenzene	+++++	0.25903	0.24614	0.25111	0.25319	0.24876						
	0.25196	0.27265	0.26713				AVRG		0.25625		3.63611	<-
48 2,4-Dichlorophenol	+++++	23059	40052	102068	303525	810589						
	1385568	1719366	1585740				QUAD	0.11657	4.70501	-0.38115	0.99895	<-
49 Benzoic Acid	+++++	+++++	48704	130004	555693	1584583						
	3012818	3710282	3655608				QUAD	0.52857	4.47296	-0.27910	0.99884	<-
50 1,2,4-Trichlorobenzene	+++++	0.24947	0.24774	0.24483	0.24550	0.24649						
	0.24443	0.26614	0.26072				AVRG		0.25067		3.26011	<-
51 Naphthalene	0.91565	0.91688	0.90080	0.89703	0.91131	0.89025						
	0.88333	0.83347	0.85562				AVRG		0.88937		3.18524	

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TestAmerica North Canton

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Last Edit : 02-Mar-2010 09:11 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
52 4-Chloroaniline	+++++	0.25339	0.30711	0.27798	0.33185	0.34059						
	0.35511	0.38075	0.38391				AVRG		0.32884		14.22459	<-
53 a,a-Dimethyl-phenethylamine	+++++	+++++	+++++	386587	889007	1763974						
	4160160	5153569	4207878				QUAD	0.36211	1.29555	-0.01755	0.98140	<-
54 2,6-Dichlorophenol	+++++	20736	44748	121189	335917	630556						
	1233037	1551307	1378783				QUAD	0.10908	4.68793	-0.44767	0.99721	<-
55 Hexachloropropene	+++++	0.15033	0.15283	0.15396	0.15175	0.15863						
	0.15820	0.17584	0.16806				AVRG		0.15870		5.62028	<-
56 Hexachlorobutadiene	0.13048	0.12774	0.12415	0.12433	0.13068	0.12804						
	0.12995	0.14017	0.13675				AVRG		0.13026		4.06652	
57 1,2,3-Trichlorobenzene	+++++	0.22564	0.21680	0.22456	0.23163	0.22947						
	0.23124	0.25196	0.24761				AVRG		0.23236		5.07941	<-
58 N-Nitrosodi-n-butylamine	+++++	0.17711	0.19920	0.20553	0.21396	0.22991						
	0.22632	0.24749	0.23643				AVRG		0.21699		10.46533	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
59 4-Chloro-3-Methylphenol	+++++	0.20549	0.22241	0.24617	0.26283	0.26418						
	0.27050	0.29068	0.29544				AVRG		0.25721		12.15820	<-
60 p-Phenylene diamine	+++++	+++++	+++++	0.25851	0.28268	0.29766						
	0.30555	0.32439	0.28549				AVRG		0.29238		7.67030	<-
61 Safrole	+++++	0.20500	0.21744	0.22038	0.22702	0.23874						
	0.24003	0.26121	0.25021				AVRG		0.23250		7.95207	<-
62 2-Methylnaphthalene	0.39727	0.45358	0.45356	0.47118	0.49835	0.49024						
	0.49743	0.53081	0.53558				AVRG		0.48089		8.92268	
63 1-Methylnaphthalene	0.53743	0.51963	0.53387	0.54778	0.57399	0.55572						
	0.56696	0.61158	0.61309				AVRG		0.56223		5.85488	
64 Hexachlorocyclopentadiene	+++++	0.25513	0.25439	0.26885	0.29097	0.28813						
	0.29260	0.31834	0.29749				AVRG		0.28324		7.82176	<-
65 1,2,4,5-Tetrachlorobenzene	+++++	0.39576	0.43364	0.40604	0.40330	0.42982						
	0.42673	0.46970	0.45854				AVRG		0.42794		6.14439	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
66 2,4,6-Trichlorophenol	+++++	0.23267	0.25064	0.25759	0.29388	0.29773						
	0.30717	0.33392	0.32244				AVRG		0.28700		12.60784	<-
67 2,4,5-Trichlorophenol	+++++	0.28591	0.28339	0.31371	0.32148	0.32661						
	0.33335	0.36088	0.34796				AVRG		0.32166		8.47103	<-
68 1,2,3,5-Tetrachlorobenzene	+++++	0.43371	0.44565	0.44053	0.45252	0.44869						
	0.45629	0.49801	0.47430				AVRG		0.45621		4.54411	<-
69 1,4-Dinitrobenzene	+++++	+++++	21199	58324	164549	315484						
	590783	730428	638885				QUAD	0.13402	5.30257	-0.39514	0.99813	<-
70 2-Chloronaphthalene	0.96743	0.98303	0.96477	0.97349	1.01038	0.98821						
	1.00312	1.08110	1.04884				AVRG		1.00226		3.93859	
71 Isosafrole 1	+++++	0.15297	0.15112	0.13648	0.14008	0.15105						
	0.15162	0.16624	0.16545				AVRG		0.15188		6.90259	<-
M 188 Isosafrole, Total	+++++	0.92392	1.00888	0.93032	0.93483	1.01948						
	1.02071	1.12042	1.09270				AVRG		1.00641		7.37341	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
72 Isosafrole 2	+++++	0.77095	0.85776	0.79384	0.79474	0.86843						
	0.86909	0.95418	0.92725				AVRG		0.85453		7.64545	<-
73 2-Nitroaniline	+++++	0.31457	0.33159	0.34673	0.36113	0.34318						
	0.34747	0.37323	0.37859				AVRG		0.34956		6.05605	<-
74 1,2,3,4-Tetrachlorobenzene	+++++	0.39962	0.40529	0.39211	0.40877	0.41090						
	0.41190	0.44885	0.42813				AVRG		0.41320		4.30184	<-
75 1,4-Naphthoquinone	+++++	20301	51208	133850	367743	656953						
	1114581	1437724	1244024				QUAD	0.04197	2.76364	-0.10568	0.99699	<-
76 Dimethylphthalate	+++++	1.14476	1.13231	1.09233	1.14746	1.13752						
	1.15306	1.24119	1.27289				AVRG		1.16519		5.17097	<-
77 m-Dinitrobenzene	+++++	+++++	0.17137	0.18455	0.18981	0.21206						
	0.21107	0.22678	0.22508				AVRG		0.20296		10.48142	<-
78 2,6-Dinitrotoluene	+++++	0.23801	0.23537	0.25019	0.26737	0.27427						
	0.28087	0.30348	0.30939				AVRG		0.26987		10.32122	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
79 Acenaphthylene	1.55957	1.64177	1.63058	1.64390	1.68389	1.65189						
	1.65214	1.70546	1.74763				AVRG		1.65743		3.15884	
80 1,2-Dinitrobenzene	+++++	0.11150	0.11562	0.12697	0.13032	0.13442						
	0.13789	0.15088	0.15820				AVRG		0.13322		11.99765	<-
81 3-Nitroaniline	+++++	0.29945	0.29074	0.29221	0.31279	0.31145						
	0.31054	0.33958	0.35094				AVRG		0.31346		6.88892	<-
82 Acenaphthene	1.16020	1.08255	1.07208	1.05763	1.09538	1.06998						
	1.07633	1.14014	1.13507				AVRG		1.09882		3.34599	
83 2,4-Dinitrophenol	+++++	+++++	+++++	100404	329756	935941						
	1522765	1855779	1932988				QUAD	0.31460	4.57585	-0.23694	0.99957	<-
84 Pentachlorobenzene	+++++	0.35841	0.37002	0.35188	0.34481	0.36604						
	0.36832	0.40552	0.39600				AVRG		0.37013		5.64282	<-
85 4-Nitrophenol	+++++	+++++	+++++	39326	117871	301601						
	520938	651098	693749				QUAD	0.08043	7.22072	-1.61642	0.99992	<-

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
86 Dibenzofuran	1.36963	1.47800	1.42529	1.39863	1.43442	1.41048						
	1.44471	1.50442	1.49306				AVRG		1.43985		3.12661	
87 2,4-Dinitrotoluene	+++++	0.31379	0.33718	0.35817	0.36049	0.37323						
	0.37843	0.41319	0.43668				AVRG		0.37139		10.59795	<-
88 2,3,4,6-Tetrachlorophenol	+++++	+++++	0.20535	0.21049	0.22455	0.25280						
	0.25848	0.29167	0.28054				AVRG		0.24627		13.72347	<-
89 1-Naphthylamine	+++++	76292	170869	392718	993506	1525600						
	2369339	2455957	2019778				QUAD	0.10658	0.58257	0.24285	0.99909	<-
90 Zinophos	+++++	0.21309	0.25725	0.25330	0.24628	0.27229						
	0.26302	0.28486	0.27941				AVRG		0.25869		8.74507	<-
91 2,3,5,6-Tetrachlorophenol	+++++	0.21801	0.25928	0.25753	0.25772	0.27647						
	0.28781	0.31322	0.31785				AVRG		0.27349		12.00293	<-
92 2-Naphthylamine	+++++	84940	189142	422038	1017825	1611275						
	2469107	2530067	+++++				QUAD	0.09961	0.55935	0.22489	0.99766	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
93 Diethylphthalate	+++++	1.21692	1.20092	1.15092	1.18805	1.17597						
	1.18581	1.27952	1.35171				AVRG		1.21873		5.38503	<-
94 Fluorene	1.19848	1.20477	1.24045	1.18616	1.23167	1.21458						
	1.21994	1.30270	1.34187				AVRG		1.23785		4.16343	
95 4-Chlorophenyl-phenylether	+++++	0.52850	0.52934	0.51876	0.52909	0.53044						
	0.54661	0.59197	0.60430				AVRG		0.54738		5.92026	<-
96 4-Nitroaniline	+++++	0.26383	0.26880	0.28416	0.33505	0.33892						
	0.33184	0.35224	0.40598				AVRG		0.32260		14.89572	<-
97 5-Nitro-o-toluidine	+++++	0.24504	0.29143	0.30976	0.31494	0.33095						
	0.29867	0.29804	0.29816				AVRG		0.29837		8.36292	<-
98 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	0.12107	0.13995	0.14503						
	0.14609	0.16441	0.16166				AVRG		0.14637		10.76906	<-
99 N-Nitrosodiphenylamine	+++++	0.55153	0.54760	0.54713	0.55321	0.55811						
	0.55042	0.59113	0.56733				AVRG		0.55831		2.65021	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
100 1,2-Diphenylhydrazine	+++++	0.84854	0.85348	0.82419	0.84957	0.82724						
	0.80311	0.86071	0.82141				AVRG		0.83603		2.37848	<-
101 Diphenylamine	+++++	0.55153	0.54760	0.54713	0.55321	0.55811						
	0.55042	0.59113	0.56733				AVRG		0.55831		2.65021	<-
102 Tetraethyl dithiopyrophosphat	+++++	0.07367	0.07787	0.07835	0.08174	0.08743						
	0.08837	0.09659	0.09266				AVRG		0.08458		9.40402	<-
103 Diallate 1	+++++	0.57840	0.58086	0.57377	0.56045	0.58680						
	0.55185	0.58776	0.57732				AVRG		0.57465		2.18279	<-
M 189 Diallate, Total	+++++	2.54156	2.51624	2.52904	2.49221	2.79765						
	2.57746	2.78730	2.61523				AVRG		2.60709		4.62041	<-
104 Phorate	+++++	0.14060	0.15421	0.15569	0.15323	0.16470						
	0.15489	0.16621	0.16222				AVRG		0.15647		5.21661	<-
105 1,3,5-Trinitrobenzene	+++++	+++++	+++++	35449	110953	221565						
	414759	525435	463681				QUAD	0.22299	12.26996	-2.14604	0.99804	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9								
106 4-Bromophenyl-phenylether	+++++	0.19125	0.18703	0.19005	0.19096	0.19786					
	0.19814	0.21523	0.20699				AVRG		0.19719		4.89024 <-
107 Hexachlorobenzene	0.20130	0.18160	0.18460	0.18086	0.18521	0.19083					
	0.19136	0.20774	0.19689				AVRG		0.19115		4.84701
108 Phenacetin	+++++	0.25154	0.31807	0.32189	0.34852	0.36189					
	0.35229	0.36957	0.36557				AVRG		0.33617		11.65617 <-
109 Diallate 2	+++++	0.10900	0.10669	0.11244	0.10858	0.11707					
	0.11246	0.12223	0.11779				AVRG		0.11328		4.71837 <-
110 Dimethoate	+++++	0.17623	0.23686	0.26253	0.27759	0.29516					
	0.25305	0.28110	0.28581				AVRG		0.25854		14.79887 <-
111 Pentachlorophenol	+++++	26193	60150	124889	347837	926091					
	1620978	1855484	2031213				QUAD	0.17060	6.89785	-0.19812	0.99969 <-
112 Pentachloronitrobenzene	+++++	0.06683	0.07409	0.07030	0.07218	0.07456					
	0.07137	0.07613	0.07404				AVRG		0.07244		4.06572 <-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
113 4-Aminobiphenyl	+++++	0.58318	0.66005	0.68311	0.64891	0.63357						
	0.59312	0.58517	0.54881				AVRG		0.61699		7.47610	<-
114 Pronamide	+++++	0.25136	0.26927	0.27389	0.28476	0.30959						
	0.30283	0.32838	0.32091				AVRG		0.29262		9.25308	<-
115 Phenanthrene	1.15360	1.06754	1.08692	1.07775	1.09515	1.09378						
	1.04775	1.05085	1.05106				AVRG		1.08049		3.06439	
116 Anthracene	1.15429	1.10917	1.11815	1.06638	1.11175	1.10785						
	1.04595	1.04309	1.03746				AVRG		1.08823		3.77703	
117 Dinoseb	+++++	+++++	30008	87303	276353	530197						
	999752	1248836	1074409				QUAD	0.17197	5.10403	-0.23611	0.99784	<-
118 Disulfoton	+++++	0.35474	0.39024	0.39485	0.39283	0.41864						
	0.40139	0.42943	0.41890				AVRG		0.40013		5.81837	<-
119 Carbazole	+++++	0.99734	1.01814	1.02410	1.06120	1.04671						
	1.02661	1.08765	1.06423				AVRG		1.04075		2.83129	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
120 Di-n-Butylphthalate	+++++	1.22093	1.24497	1.24979	1.30665	1.28900						
	1.11621	1.04984	1.08946				AVRG		1.19585		8.11281	<-
121 4-Nitroquinoline 1-oxide	+++++	+++++	+++++	29720	119693	248515						
	517658	675378	582329				QUAD	0.37201	9.72202	-1.78685	0.99531	<-
122 Methapyrilene	+++++	0.21388	0.29788	0.29673	0.31981	0.35220						
	0.31840	0.32446	0.36327				AVRG		0.31083		14.66869	<-
123 Fluoranthene	1.18136	1.07352	1.07248	1.06826	1.10419	1.10408						
	1.09657	1.08962	1.05983				AVRG		1.09443		3.32196	
124 Benzidine	+++++	0.44726	0.50113	0.53589	0.59896	0.57896						
	0.57815	0.63714	0.60355				AVRG		0.56013		11.04862	<-
125 Pyrene	0.97955	1.00880	1.02383	0.99639	1.02394	0.98059						
	0.97834	0.96509	0.90538				AVRG		0.98466		3.68756	
126 Aramite 1	+++++	0.03402	0.03519	0.03818	0.04233	0.04461						
	0.04395	0.04871	0.04705				AVRG		0.04176		12.97533	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
M 191 Aramite, Total	+++++	0.37315	0.39918	0.44159	0.47638	0.56615						
	0.52283	0.58708	0.53573				AVRG		0.48776		16.02800	<-
127 Aramite 2	+++++	0.06167	0.06592	0.07149	0.07592	0.07929						
	0.08010	0.09016	0.08639				AVRG		0.07637		12.73577	<-
128 p-Dimethylamino azobenzene	+++++	0.15314	0.16693	0.17557	0.18967	0.20162						
	0.20797	0.23170	0.23028				AVRG		0.19461		14.72467	<-
129 p-Chlorobenzilate	+++++	0.30409	0.33198	0.33044	0.33198	0.34629						
	0.33641	0.36609	0.36234				AVRG		0.33870		5.82888	<-
130 Famphur	+++++	0.07429	0.12944	0.15438	0.12826	0.06908						
	0.01809	0.01341	0.01205				AVRG		0.07488		76.77120	<-
131 Butylbenzylphthalate	+++++	0.46200	0.47099	0.47715	0.49581	0.47535						
	0.46959	0.51236	0.50509				AVRG		0.48354		3.80483	<-
132 3,3'-Dimethylbenzidine	+++++	53242	143317	355895	838086	1177438						
	1634404	1674958	1391861				QUAD	0.08654	1.00452	2.10493	0.99759	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
133 3,3'-Dimethoxybenzidine	+++++	0.16972	0.18910	0.21009	0.22811	0.20459						
	0.20078	0.22598	0.20565				AVRG		0.20425		9.27311	<-
134 2-Acetylaminofluorene	+++++	+++++	102008	270906	743268	1564223						
	2645676	3363140	2960101				QUAD	0.11010	2.17714	-0.08780	0.99808	<-
135 3,3'-Dichlorobenzidine	+++++	0.33089	0.33608	0.34869	0.36082	0.35783						
	0.35633	0.39384	0.38902				AVRG		0.35919		6.26812	<-
136 Benzo(a)Anthracene	1.11660	0.97799	0.98136	0.94274	0.97724	0.93558						
	0.94913	1.03657	0.96815				AVRG		0.98726		5.75795	
137 Chrysene	0.92868	0.94246	0.93553	0.91931	0.94590	0.89998						
	0.88377	0.91389	0.89104				AVRG		0.91784		2.44817	
138 4,4'-Methylene bis(o-chloroan	+++++	0.16080	0.17336	0.17502	0.18923	0.18550						
	0.18684	0.20938	0.20602				AVRG		0.18577		8.80622	<-
139 bis(2-ethylhexyl)Phthalate	+++++	0.65815	0.69123	0.68297	0.70901	0.66657						
	0.66505	0.72445	0.70695				AVRG		0.68805		3.49217	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
140 Di-n-octylphthalate	+++++	1.08720	1.14642	1.19425	1.29913	1.24600						
	1.21162	1.25808	1.16498				AVRG		1.20096		5.65612	<-
141 Benzo(b)fluoranthene	0.89557	0.91303	0.93824	1.00902	1.01364	0.99009						
	1.00703	1.08102	1.22078				AVRG		1.00760		9.76747	
142 Benzo(k)fluoranthene	1.15520	1.11763	1.09448	1.03110	1.11856	1.10382						
	1.08946	1.22825	1.08247				AVRG		1.11344		4.89202	
143 7,12-dimethylbenz[a]anthracen	+++++	0.41341	0.44742	0.44139	0.44805	0.49194						
	0.49465	0.53331	0.53152				AVRG		0.47521		9.30155	<-
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
146 Benzo(a)pyrene	0.93418	0.91973	0.90146	0.89725	0.96676	0.96201						
	0.96683	1.06505	1.05074				AVRG		0.96267		6.24953	

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148 3-Methylcholanthrene	+++++	0.40174	0.43791	0.46126	0.48013	0.53909	0.54781	0.59984	0.59230	AVRG		0.50751		14.37486	<-
149 Indeno(1,2,3-cd)pyrene	0.95413	0.97802	1.03241	1.04044	1.10608	1.08255	1.08252	1.18696	1.19403	AVRG		1.07302		7.71104	
150 Dibenz(a,h)anthracene	0.75955	0.84442	0.82591	0.85939	0.93473	0.91254	0.91227	0.99774	1.00173	AVRG		0.89425		8.93506	
151 Benzo(g,h,i)perylene	0.79048	0.79716	0.81405	0.84182	0.90684	0.88513	0.88900	0.97733	0.98931	AVRG		0.87679		8.34599	
230 2-Chloroacetophenone	+++++	53726	134959	332217	934337	1687363	3088097	3883777	3398272	QUAD	0.07944	1.78611	-0.03973	0.99709	<-
199 3-Picoline	+++++	1.34455	1.38732	1.37442	1.36676	1.36584	1.37921	1.48174	1.43898	AVRG		1.39235		3.24925	<-
200 N,N-Dimethylacetamide	+++++	1.42240	1.58848	1.47352	1.41273	1.50298	1.39225	1.48335	1.37221	AVRG		1.45599		4.84956	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 15:23
End Cal Date : 01-MAR-2010 20:53
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
214 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
209 Benzaldehyde	+++++	43208	79204	149232	362667	763852						
	988706	1102108	+++++				QUAD	0.01816	0.85101	0.21845	0.99468	<-
210 Caprolactam	+++++	0.07909	0.08573	0.09658	0.10563	0.10416						
	0.10545	0.11430	0.12142				AVRG		0.10154		13.80302	<-
211 1,1'-Biphenyl	+++++	1.36886	1.33295	1.34183	1.39391	1.36071						
	1.37459	1.48188	1.44359				AVRG		1.38729		3.69441	<-
212 Atrazine	+++++	0.11336	0.12766	0.12607	0.12597	0.13090						
	0.12804	0.13042	0.12526				AVRG		0.12596		4.35510	<-
220 Diphenyl Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
216 1,3-Diethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

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Start Cal Date : 01-MAR-2010 15:23
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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
218 1,1,3,3-Tetramethyl-2-Thioure	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
217 1,3-Dibutyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
215 bis(2-Chloroethoxy) ethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
221 Hexabromobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
219 o-Benzyl Phenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
223 1,2-bis(2-chloroethoxy)ethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
224 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Quant Method : ISTD
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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
225 1,3-Dimethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
226 Methyl parathion	+++++	19833	47960	136993	371509	666978						
	1060313	1362544	1225993				QUAD	0.02161	4.77288	-0.26359	0.99651	<-
227 Parathion	+++++	+++++	0.11640	0.12914	0.13841	0.15144						
	0.14575	0.16002	0.15345				AVRG		0.14209		10.72081	<-
228 Isodrin	+++++	0.11456	0.10784	0.10467	0.10022	0.10484						
	0.09736	0.10424	0.10320				AVRG		0.10462		4.89417	<-
229 Kepone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
231 Acrylamide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
232 2-Methylcyclohexanone	+++++	0.75626	0.77858	0.81198	0.82479	0.78675						
	0.77650	0.88324	0.80697				AVRG		0.80313		4.88082	<-

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TestAmerica North Canton

INITIAL CALIBRATION DATA

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End Cal Date : 01-MAR-2010 20:53
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
233 3-Methylcyclohexanone	+++++	1.31807	1.29861	1.33238	1.34527	1.31276						
	1.27547	1.45533	1.34327				AVRG		1.33514		4.03433	<-
234 4-Methylcyclohexanone	+++++	1.21672	1.27848	1.32639	1.31498	1.22787						
	1.23578	1.39028	1.30868				AVRG		1.28740		4.60489	<-
235 Tributyl phosphate	+++++	1.37540	1.48067	1.56614	1.49890	1.59501						
	1.56311	1.65963	1.68729				AVRG		1.55327		6.49048	<-
236 Phenyl sulfone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
237 3,4-Dichloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
239 N-methyl-pyrrolidone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
$ 154 Nitrobenzene-d5	0.36096	0.36449	0.34847	0.35719	0.35939	0.34107						
	0.33962	0.35852	0.35331				AVRG		0.35367		2.49365	

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
$ 155 2-Fluorobiphenyl	1.05794	1.09154	1.09815	1.11430	1.14982	1.12630						
	1.14530	1.23063	1.19382				AVRG		1.13420		4.68761	
$ 156 Terphenyl-d14	0.63176	0.60014	0.60145	0.59338	0.61960	0.61229						
	0.61131	0.66350	0.64946				AVRG		0.62032		3.81458	
$ 157 Phenol-d5	1.21870	1.39957	1.42799	1.44246	1.55250	1.51112						
	1.53090	1.69015	1.69312				AVRG		1.49628		9.88106	
$ 158 2-Fluorophenol	1.07960	1.16583	1.08939	1.10851	1.18272	1.08031						
	1.14689	1.23177	1.20504				AVRG		1.14334		4.97227	
$ 159 2,4,6-Tribromophenol	+++++	0.11090	0.12842	0.12665	0.13409	0.13944						
	0.14889	0.15990	0.17125				AVRG		0.13994		13.89176	
$ 186 2-Chlorophenol-d4	+++++	1.09743	1.10420	1.11358	1.20110	1.15759						
	1.16837	1.29628	1.26231				AVRG		1.17511		6.28328	<-
$ 187 1,2-Dichlorobenzene-d4	+++++	0.80288	0.77751	0.77075	0.80085	0.78177						
	0.78272	0.86635	0.85024				AVRG		0.80413		4.40695	

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Last Edit : 02-Mar-2010 09:11 gruberj

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SH0301.D
Lab Smp Id: l7
Inj Date : 01-MAR-2010 17:40
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l7,00301a.b,8270C-625,1-827042d.sub,1,,7
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:10 a4hp7.i Quant Type: ISTD
Cal Date : 01-MAR-2010 18:57 Cal File: 7AHH0301.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
*	1 1,4-Dichlorobenzene-d4	152	3.476	3.476	(1.000)	398111	2.00000		(Q)
*	2 Naphthalene-d8	136	4.369	4.369	(1.000)	1681100	2.00000		
*	3 Acenaphthene-d10	164	5.637	5.637	(1.000)	896733	2.00000		
*	4 Phenanthrene-d10	188	6.717	6.717	(1.000)	1451539	2.00000		
*	5 Chrysene-d12	240	8.675	8.675	(1.000)	1721087	2.00000		
*	6 Perylene-d12	264	10.044	10.044	(1.000)	1580717	2.00000		
	9 Pyridine	79	1.882	1.882	(0.542)	1836559	7.50000	7.1805	
	10 N-Nitrosodimethylamine	74	1.850	1.850	(0.532)	1054278	7.50000	7.1439	
	11 Ethyl methacrylate	69	2.086	2.086	(0.600)	1585022	7.50000	7.0975	
	12 3-Chloropropionitrile	54	2.246	2.246	(0.646)	1227404	7.50000	7.0490	
	13 Malononitrile	66	2.385	2.385	(0.686)	2430363	7.50000	7.3759	
	209 Benzaldehyde	77	3.182	3.182	(0.915)	988706	7.50000	6.9580	
	21 Aniline	93	3.252	3.252	(0.935)	2929956	7.50000	7.1976	
	22 Phenol	94	3.198	3.198	(0.920)	2401554	7.50000	7.4912	
	23 bis(2-Chloroethyl)ether	93	3.273	3.273	(0.942)	1998383	7.50000	7.0624	
	24 2-Chlorophenol	128	3.337	3.337	(0.960)	1893163	7.50000	7.4131	
	26 1,3-Dichlorobenzene	146	3.444	3.444	(0.991)	1924470	7.50000	7.2410	
	27 1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	1890247	7.50000	7.2373	
	28 1,2-Dichlorobenzene	146	3.599	3.599	(1.035)	1863583	7.50000	7.3363	
	29 Benzyl Alcohol	108	3.551	3.551	(1.022)	1259533	7.50000	7.5074	
	30 2-Methylphenol	108	3.610	3.610	(1.038)	1702927	7.50000	7.6494	
	31 bis(2-Chloroisopropyl)ether	45	3.637	3.637	(1.046)	3134778	7.50000	7.0040	
	37 Acetophenone	105	3.738	3.738	(1.075)	2580087	7.50000	7.2939	
	32 N-Nitroso-di-n-propylamine	70	3.733	3.733	(1.074)	1415772	7.50000	7.2835	
	192 4-Methylphenol	108	3.717	3.717	(1.069)	1792990	7.50000	7.3254	
	34 Hexachloroethane	117	3.835	3.835	(1.103)	752769	7.50000	7.2456	
	35 Nitrobenzene	77	3.867	3.867	(0.885)	2027375	7.50000	7.3178	
	41 Isophorone	82	4.027	4.027	(0.922)	3844622	7.50000	7.4455	
	42 2-Nitrophenol	139	4.086	4.086	(0.935)	1068022	7.50000	7.7526	
	43 2,4-Dimethylphenol	107	4.086	4.086	(0.935)	1864534	7.50000	7.4102	
	44 bis(2-Chloroethoxy)methane	93	4.155	4.155	(0.951)	2274965	7.50000	7.4251	

46	2,4-Toluenediamene	121	5.188	5.188 (1.187)	799856	7.50000	7.0521
47	1,3,5-Trichlorobenzene	180	4.102	4.102 (0.939)	1588388	7.50000	7.3746

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.252	4.252	(0.973)	1385568	7.50000	7.4711
49	Benzoic Acid	122	4.193	4.193	(0.960)	3012818	15.0000	15.297(H)
50	1,2,4-Trichlorobenzene	180	4.321	4.321	(0.989)	1540910	7.50000	7.3134
51	Naphthalene	128	4.385	4.385	(1.004)	5568595	7.50000	7.4490
52	4-Chloroaniline	127	4.401	4.401	(1.007)	2238658	7.50000	8.0992
56	Hexachlorobutadiene	225	4.466	4.466	(1.022)	819229	7.50000	7.4824
210	Caprolactam	113	4.669	4.669	(1.069)	664770	7.50000	7.7884(H)
57	1,2,3-Trichlorobenzene	180	4.487	4.487	(1.027)	1457741	7.50000	7.4636
59	4-Chloro-3-Methylphenol	107	4.733	4.733	(1.083)	1705256	7.50000	7.8874
62	2-Methylnaphthalene	142	4.872	4.872	(1.115)	3135888	7.50000	7.7581
63	1-Methylnaphthalene	142	4.947	4.947	(1.132)	3574170	7.50000	7.5631
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.885)	983941	7.50000	7.7479
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.899)	1032924	7.50000	8.0269
67	2,4,5-Trichlorophenol	196	5.102	5.102	(0.905)	1120978	7.50000	7.7726
211	1,1'-Biphenyl	154	5.204	5.204	(0.923)	4622392	7.50000	7.4313
68	1,2,3,5-Tetrachlorobenzene	216	4.990	4.990	(0.885)	1534399	7.50000	7.5013
70	2-Chloronaphthalene	162	5.231	5.231	(0.928)	3373249	7.50000	7.5064
73	2-Nitroaniline	65	5.289	5.289	(0.938)	1168463	7.50000	7.4552
74	1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.923)	1385105	7.50000	7.4764
76	Dimethylphthalate	163	5.402	5.402	(0.958)	3877445	7.50000	7.4219
78	2,6-Dinitrotoluene	165	5.455	5.455	(0.968)	944508	7.50000	7.8058
79	Acenaphthylene	152	5.535	5.535	(0.982)	5555719	7.50000	7.4761
80	1,2-Dinitrobenzene	168	5.503	5.503	(0.976)	463688	7.50000	7.7626
81	3-Nitroaniline	138	5.584	5.584	(0.991)	1044273	7.50000	7.4301
82	Acenaphthene	153	5.664	5.664	(1.005)	3619431	7.50000	7.3465
83	2,4-Dinitrophenol	184	5.658	5.658	(1.004)	1522765	15.0000	14.803
85	4-Nitrophenol	109	5.685	5.685	(1.009)	520938	7.50000	7.4593(H)
86	Dibenzofuran	168	5.787	5.787	(1.027)	4858198	7.50000	7.5253
87	2,4-Dinitrotoluene	165	5.749	5.749	(1.020)	1272562	7.50000	7.6421
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.035)	967828	7.50000	7.8928
93	Diethylphthalate	149	5.910	5.910	(1.048)	3987591	7.50000	7.2974
94	Fluorene	166	6.033	6.033	(1.070)	4102335	7.50000	7.3915
95	4-Chlorophenyl-phenylether	204	6.011	6.011	(1.066)	1838104	7.50000	7.4895
96	4-Nitroaniline	138	6.033	6.033	(1.070)	1115890	7.50000	7.7147
98	4,6-Dinitro-2-methylphenol	198	6.049	6.049	(0.900)	795198	7.50000	7.4856
99	N-Nitrosodiphenylamine	169	6.097	6.097	(0.908)	2996059	7.50000	7.3940
100	1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	4371562	7.50000	7.2047
106	4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	1078534	7.50000	7.5362
107	Hexachlorobenzene	284	6.445	6.445	(0.959)	1041631	7.50000	7.5081
212	Atrazine	200	6.461	6.461	(0.962)	696963	7.50000	7.6239
111	Pentachlorophenol	266	6.578	6.578	(0.979)	1620978	15.0000	15.253
115	Phenanthrene	178	6.739	6.739	(1.003)	5703199	7.50000	7.2728
116	Anthracene	178	6.776	6.776	(1.009)	5693398	7.50000	7.2086
119	Carbazole	167	6.878	6.878	(1.024)	5588117	7.50000	7.3981
120	Di-n-Butylphthalate	149	7.087	7.087	(1.055)	6075817	7.50000	7.0005
123	Fluoranthene	202	7.605	7.605	(1.132)	5968916	7.50000	7.5146
124	Benzidine	184	7.680	7.680	(0.885)	3731452	7.50000	7.7413
125	Pyrene	202	7.782	7.782	(0.897)	6314274	7.50000	7.4519
131	Butylbenzylphthalate	149	8.188	8.188	(0.944)	3030775	7.50000	7.2836
133	3,3'-Dimethoxybenzidine	244	8.584	8.584	(0.990)	1295833	7.50000	7.3724
135	3,3'-Dichlorobenzidine	252	8.622	8.622	(0.994)	2299800	7.50000	7.4404
136	Benzo(a)Anthracene	228	8.664	8.664	(0.999)	6125742	7.50000	7.2103

137 Chrysene	228	8.696	8.696 (1.002)	5703916	7.50000	7.2216
138 4,4'-Methylene bis(o-chloroan	231	8.616	8.616 (0.993)	1205865	7.50000	7.5432

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.595	8.595	(0.991)	4292293	7.50000	7.2493
140	Di-n-octylphthalate	149	9.114	9.114	(0.907)	7182095	7.50000	7.5666
141	Benzo(b)fluoranthene	252	9.627	9.627	(0.958)	5969352	7.50000	7.4957
142	Benzo(k)fluoranthene	252	9.654	9.654	(0.961)	6457980	7.50000	7.3385
146	Benzo(a)pyrene	252	9.991	9.991	(0.995)	5731045	7.50000	7.5324
149	Indeno(1,2,3-cd)pyrene	276	11.547	11.547	(1.150)	6416819	7.50000	7.5664
150	Dibenz(a,h)anthracene	278	11.547	11.547	(1.150)	5407648	7.50000	7.6511
151	Benzo(g,h,i)perylene	276	11.991	11.991	(1.194)	5269708	7.50000	7.6044
198	1,4-Dioxane	88	1.690	1.690	(0.486)	665239	7.50000	6.9123
$ 154	Nitrobenzene-d5	82	3.851	3.851	(0.881)	2140991	7.50000	7.2020
$ 155	2-Fluorobiphenyl	172	5.129	5.129	(0.910)	3851342	7.50000	7.5734
$ 156	Terphenyl-d14	244	7.857	7.857	(0.906)	3945447	7.50000	7.3910
$ 157	Phenol-d5	99	3.187	3.187	(0.917)	2285507	7.50000	7.6735
$ 158	2-Fluorophenol	112	2.610	2.610	(0.751)	1712210	7.50000	7.5233
$ 159	2,4,6-Tribromophenol	330	6.209	6.209	(1.102)	500678	7.50000	7.9795
$ 186	2-Chlorophenol-d4	132	3.326	3.326	(0.957)	1744273	7.50000	7.4570
$ 187	1,2-Dichlorobenzene-d4	152	3.589	3.589	(1.032)	1168538	7.50000	7.3003
M 195	Cresols, total	100				3495917	7.50000	
101	Diphenylamine	169	6.097	6.097	(0.908)	2996059	7.50000	7.3940

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SH0301.D
Lab Smp Id: l7
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 17:59
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	372908	186454	745816	398111	6.76
2 Naphthalene-d8	1563613	781807	3127226	1681100	7.51
3 Acenaphthene-d10	831448	415724	1662896	896733	7.85
4 Phenanthrene-d10	1312591	656296	2625182	1451539	10.59
5 Chrysene-d12	1565944	782972	3131888	1721087	9.91
6 Perylene-d12	1416519	708260	2833038	1580717	11.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	0.00
2 Naphthalene-d8	4.37	3.87	4.87	4.37	0.00
3 Acenaphthene-d10	5.64	5.14	6.14	5.64	0.00
4 Phenanthrene-d10	6.72	6.22	7.22	6.72	0.00
5 Chrysene-d12	8.67	8.17	9.17	8.68	0.06
6 Perylene-d12	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SH0301.D

Page 1

Date : 01-MAR-2010 17:40

Client ID:

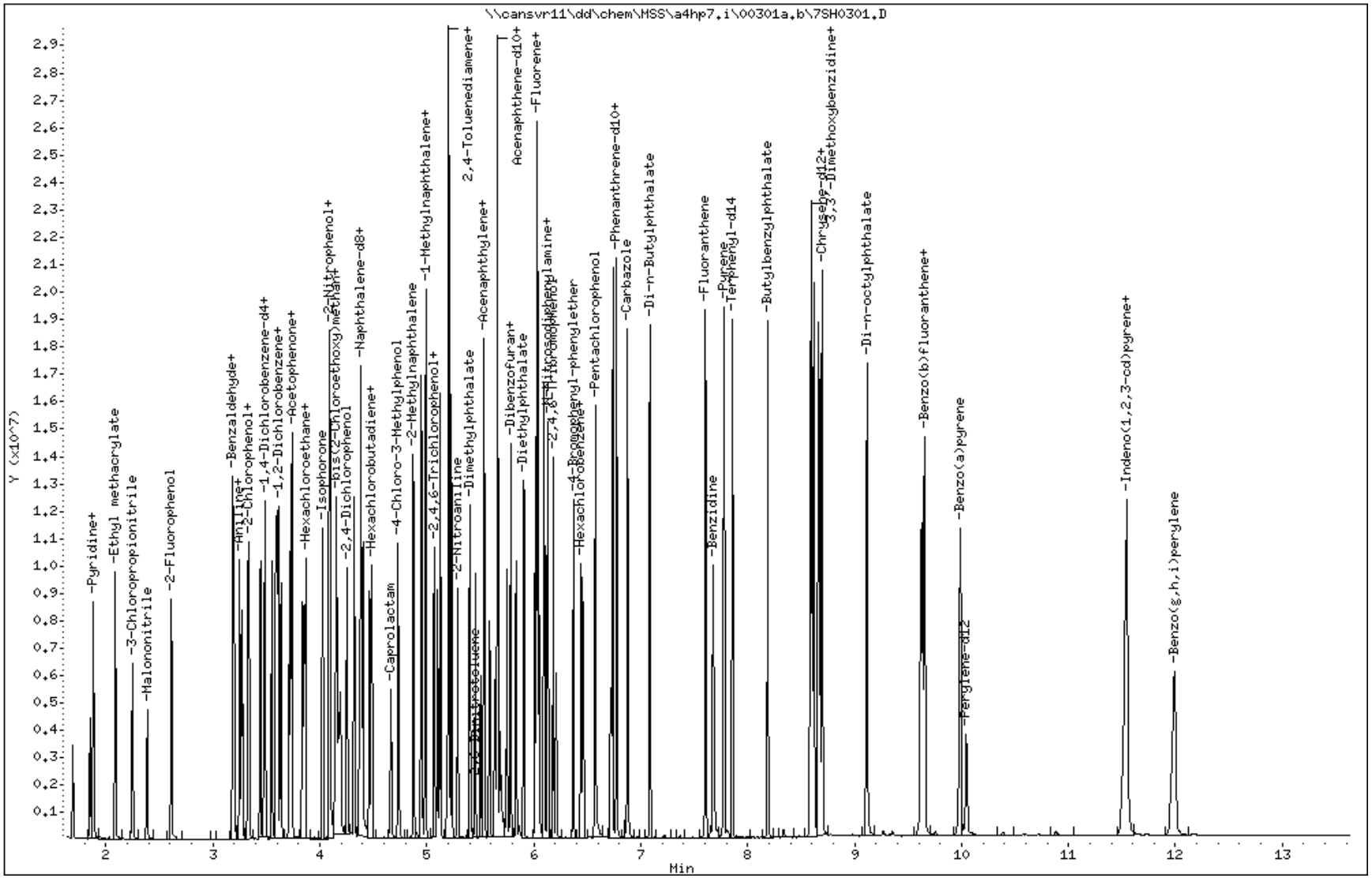
Instrument: a4hp7.i

Sample Info: 17,00301a.b,8270C-625,1-827042d.sub,1,,7

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SHH0301.D
Lab Smp Id: l8
Inj Date : 01-MAR-2010 17:20
Operator : 001710   Inst ID: a4hp7.i
Smp Info : l8,00301a.b,8270C-625,1-827042d.sub,1,,8
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:09 a4hp7.i   Quant Type: ISTD
Cal Date : 01-MAR-2010 18:38   Cal File: 7AHHH0301.D
Als bottle: 8   Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)	
*	1 1,4-Dichlorobenzene-d4	152	3.476	3.476	(1.000)	339537	2.00000		(Q)
*	2 Naphthalene-d8	136	4.369	4.369	(1.000)	1454076	2.00000		
*	3 Acenaphthene-d10	164	5.637	5.637	(1.000)	770118	2.00000		
*	4 Phenanthrene-d10	188	6.717	6.717	(1.000)	1244847	2.00000		
*	5 Chrysene-d12	240	8.680	8.680	(1.000)	1456141	2.00000		
*	6 Perylene-d12	264	10.050	10.050	(1.000)	1337959	2.00000		
	9 Pyridine	79	1.882	1.882	(0.542)	2347042	10.0000	10.759	
	10 N-Nitrosodimethylamine	74	1.850	1.850	(0.532)	1326105	10.0000	10.536	
	11 Ethyl methacrylate	69	2.086	2.086	(0.600)	1981000	10.0000	10.401	
	12 3-Chloropropionitrile	54	2.246	2.246	(0.646)	1561244	10.0000	10.513	
	13 Malononitrile	66	2.390	2.390	(0.688)	2962424	10.0000	10.542	
	209 Benzaldehyde	77	3.182	3.182	(0.915)	1102108	10.0000	10.164	
	21 Aniline	93	3.252	3.252	(0.935)	3736474	10.0000	10.762	
	22 Phenol	94	3.198	3.198	(0.920)	3038720	10.0000	11.114	
	23 bis(2-Chloroethyl)ether	93	3.273	3.273	(0.942)	2671388	10.0000	11.069	
	24 2-Chlorophenol	128	3.337	3.337	(0.960)	2391035	10.0000	10.978	
	26 1,3-Dichlorobenzene	146	3.444	3.444	(0.991)	2421616	10.0000	10.683	
	27 1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	2395685	10.0000	10.755	
	28 1,2-Dichlorobenzene	146	3.599	3.599	(1.035)	2337415	10.0000	10.789	
	29 Benzyl Alcohol	108	3.551	3.551	(1.022)	1578912	10.0000	11.034	
	30 2-Methylphenol	108	3.610	3.610	(1.038)	2166183	10.0000	11.409	
	31 bis(2-Chloroisopropyl)ether	45	3.637	3.637	(1.046)	3902234	10.0000	10.223	
	37 Acetophenone	105	3.744	3.744	(1.077)	3211158	10.0000	10.644	
	32 N-Nitroso-di-n-propylamine	70	3.733	3.733	(1.074)	1768284	10.0000	10.666	
	192 4-Methylphenol	108	3.717	3.717	(1.069)	2273997	10.0000	10.364	
	34 Hexachloroethane	117	3.835	3.835	(1.103)	960418	10.0000	10.839	
	35 Nitrobenzene	77	3.867	3.867	(0.885)	2512026	10.0000	10.483	
	41 Isophorone	82	4.027	4.027	(0.922)	4771813	10.0000	10.684	
	42 2-Nitrophenol	139	4.091	4.091	(0.936)	1325048	10.0000	11.120	
	43 2,4-Dimethylphenol	107	4.091	4.091	(0.936)	2312310	10.0000	10.233	
	44 bis(2-Chloroethoxy)methane	93	4.155	4.155	(0.951)	2805744	10.0000	10.587	

46	2,4-Toluenediamene	121	5.193	5.193 (1.188)	957634	10.0000	9.7614
47	1,3,5-Trichlorobenzene	180	4.102	4.102 (0.939)	1982293	10.0000	10.640

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
48	2,4-Dichlorophenol	162	4.257	4.257	(0.974)	1719366	10.0000	10.294
49	Benzoic Acid	122	4.204	4.204	(0.962)	3710282	20.0000	20.250(MH)
50	1,2,4-Trichlorobenzene	180	4.321	4.321	(0.989)	1934905	10.0000	10.617
51	Naphthalene	128	4.385	4.385	(1.004)	6059631	10.0000	9.3714
52	4-Chloroaniline	127	4.402	4.402	(1.007)	2768187	10.0000	11.579
56	Hexachlorobutadiene	225	4.466	4.466	(1.022)	1019103	10.0000	10.761
210	Caprolactam	113	4.674	4.674	(1.070)	830973	10.0000	11.256(H)
57	1,2,3-Trichlorobenzene	180	4.487	4.487	(1.027)	1831871	10.0000	10.843
59	4-Chloro-3-Methylphenol	107	4.733	4.733	(1.083)	2113354	10.0000	11.301
62	2-Methylnaphthalene	142	4.878	4.878	(1.116)	3859216	10.0000	11.038
63	1-Methylnaphthalene	142	4.952	4.952	(1.133)	4446395	10.0000	10.878
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.885)	1225793	10.0000	11.239
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.899)	1285780	10.0000	11.635
67	2,4,5-Trichlorophenol	196	5.102	5.102	(0.905)	1389599	10.0000	11.219
211	1,1'-Biphenyl	154	5.209	5.209	(0.924)	5706117	10.0000	10.682
68	1,2,3,5-Tetrachlorobenzene	216	4.990	4.990	(0.885)	1917636	10.0000	10.916
70	2-Chloronaphthalene	162	5.236	5.236	(0.929)	4162884	10.0000	10.787
73	2-Nitroaniline	65	5.289	5.289	(0.938)	1437142	10.0000	10.677
74	1,2,3,4-Tetrachlorobenzene	216	5.209	5.209	(0.924)	1728321	10.0000	10.863
76	Dimethylphthalate	163	5.402	5.402	(0.958)	4779331	10.0000	10.652
78	2,6-Dinitrotoluene	165	5.455	5.455	(0.968)	1168565	10.0000	11.245
79	Acenaphthylene	152	5.535	5.535	(0.982)	6567030	10.0000	10.290
80	1,2-Dinitrobenzene	168	5.509	5.509	(0.977)	580983	10.0000	11.325
81	3-Nitroaniline	138	5.589	5.589	(0.991)	1307571	10.0000	10.833
82	Acenaphthene	153	5.664	5.664	(1.005)	4390214	10.0000	10.376
83	2,4-Dinitrophenol	184	5.664	5.664	(1.005)	1855779	20.0000	19.931
85	4-Nitrophenol	109	5.685	5.685	(1.009)	651098	10.0000	10.060(H)
86	Dibenzofuran	168	5.787	5.787	(1.027)	5792897	10.0000	10.448
87	2,4-Dinitrotoluene	165	5.755	5.755	(1.021)	1591016	10.0000	11.125
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.035)	1206067	10.0000	11.453
93	Diethylphthalate	149	5.910	5.910	(1.048)	4926906	10.0000	10.499
94	Fluorene	166	6.033	6.033	(1.070)	5016160	10.0000	10.524
95	4-Chlorophenyl-phenylether	204	6.017	6.017	(1.067)	2279417	10.0000	10.815
96	4-Nitroaniline	138	6.038	6.038	(1.071)	1356341	10.0000	10.919
98	4,6-Dinitro-2-methylphenol	198	6.054	6.054	(0.901)	1023356	10.0000	11.233
99	N-Nitrosodiphenylamine	169	6.097	6.097	(0.908)	3679315	10.0000	10.588
100	1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	5357248	10.0000	10.295
106	4-Bromophenyl-phenylether	248	6.375	6.375	(0.949)	1339632	10.0000	10.915
107	Hexachlorobenzene	284	6.445	6.445	(0.959)	1293034	10.0000	10.868
212	Atrazine	200	6.466	6.466	(0.963)	811736	10.0000	10.354
111	Pentachlorophenol	266	6.578	6.578	(0.979)	1855484	20.0000	20.024
115	Phenanthrene	178	6.739	6.739	(1.003)	6540725	10.0000	9.7257
116	Anthracene	178	6.776	6.776	(1.009)	6492467	10.0000	9.5852
119	Carbazole	167	6.878	6.878	(1.024)	6769806	10.0000	10.451
120	Di-n-Butylphthalate	149	7.087	7.087	(1.055)	6534427	10.0000	8.7790
123	Fluoranthene	202	7.611	7.611	(1.133)	6782078	10.0000	9.9560
124	Benzidine	184	7.680	7.680	(0.885)	4638807	10.0000	11.375
125	Pyrene	202	7.782	7.782	(0.896)	7026550	10.0000	9.8013
131	Butylbenzylphthalate	149	8.194	8.194	(0.944)	3730314	10.0000	10.596
133	3,3'-Dimethoxybenzidine	244	8.589	8.589	(0.990)	1645272	10.0000	11.064
135	3,3'-Dichlorobenzidine	252	8.627	8.627	(0.994)	2867401	10.0000	10.965
136	Benzo(a)Anthracene	228	8.670	8.670	(0.999)	7546931	10.0000	10.499

137	Chrysene	228	8.702	8.702 (1.002)	6653790	10.0000	9.9570
138	4,4'-Methylene bis(o-chloroan	231	8.622	8.622 (0.993)	1524425	10.0000	11.271

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.600	8.600	(0.991)	5274481	10.0000	10.529
140	Di-n-octylphthalate	149	9.119	9.119	(0.907)	8416316	10.0000	10.476
141	Benzo(b)fluoranthene	252	9.632	9.632	(0.958)	7231827	10.0000	10.729
142	Benzo(k)fluoranthene	252	9.659	9.659	(0.961)	8216762	10.0000	11.031
146	Benzo(a)pyrene	252	9.996	9.996	(0.995)	7124995	10.0000	11.064
149	Indeno(1,2,3-cd)pyrene	276	11.553	11.553	(1.150)	7940492	10.0000	11.062
150	Dibenz(a,h)anthracene	278	11.558	11.558	(1.150)	6674693	10.0000	11.157
151	Benzo(g,h,i)perylene	276	12.002	12.002	(1.194)	6538119	10.0000	11.147
198	1,4-Dioxane	88	1.690	1.690	(0.486)	832955	10.0000	10.148
$ 154	Nitrobenzene-d5	82	3.851	3.851	(0.881)	2606577	10.0000	10.137
$ 155	2-Fluorobiphenyl	172	5.129	5.129	(0.910)	4738654	10.0000	10.850
$ 156	Terphenyl-d14	244	7.857	7.857	(0.905)	4830721	10.0000	10.696
$ 157	Phenol-d5	99	3.187	3.187	(0.917)	2869339	10.0000	11.296
$ 158	2-Fluorophenol	112	2.610	2.610	(0.751)	2091165	10.0000	10.773
$ 159	2,4,6-Tribromophenol	330	6.209	6.209	(1.102)	615699	10.0000	11.426
$ 186	2-Chlorophenol-d4	132	3.326	3.326	(0.957)	2200672	10.0000	11.031
$ 187	1,2-Dichlorobenzene-d4	152	3.589	3.589	(1.032)	1470783	10.0000	10.774
M 195	Cresols, total	100				4440180	10.0000	
101	Diphenylamine	169	6.097	6.097	(0.908)	3679315	10.0000	10.588

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SHH0301.D
Lab Smp Id: l8
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 17:59
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	372908	186454	745816	339537	-8.95
2 Naphthalene-d8	1563613	781807	3127226	1454076	-7.01
3 Acenaphthene-d10	831448	415724	1662896	770118	-7.38
4 Phenanthrene-d10	1312591	656296	2625182	1244847	-5.16
5 Chrysene-d12	1565944	782972	3131888	1456141	-7.01
6 Perylene-d12	1416519	708260	2833038	1337959	-5.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	0.00
2 Naphthalene-d8	4.37	3.87	4.87	4.37	0.00
3 Acenaphthene-d10	5.64	5.14	6.14	5.64	0.00
4 Phenanthrene-d10	6.72	6.22	7.22	6.72	0.00
5 Chrysene-d12	8.67	8.17	9.17	8.68	0.12
6 Perylene-d12	10.04	9.54	10.54	10.05	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SHH0301.D

Page 1

Date : 01-MAR-2010 17:20

Client ID:

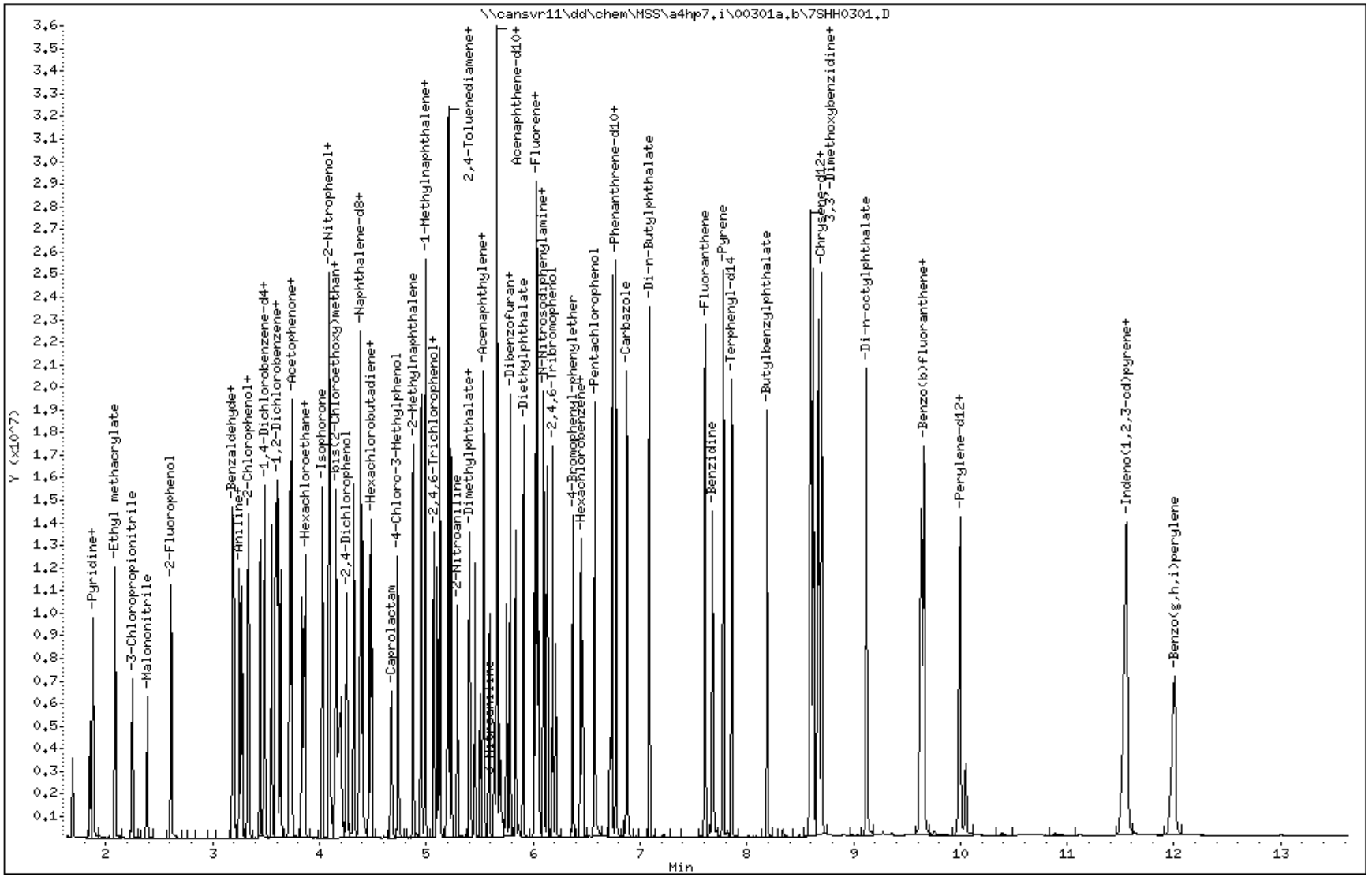
Instrument: a4hp7.i

Sample Info: 18,00301a.b,8270C-625,1-827042d.sub,1,,8

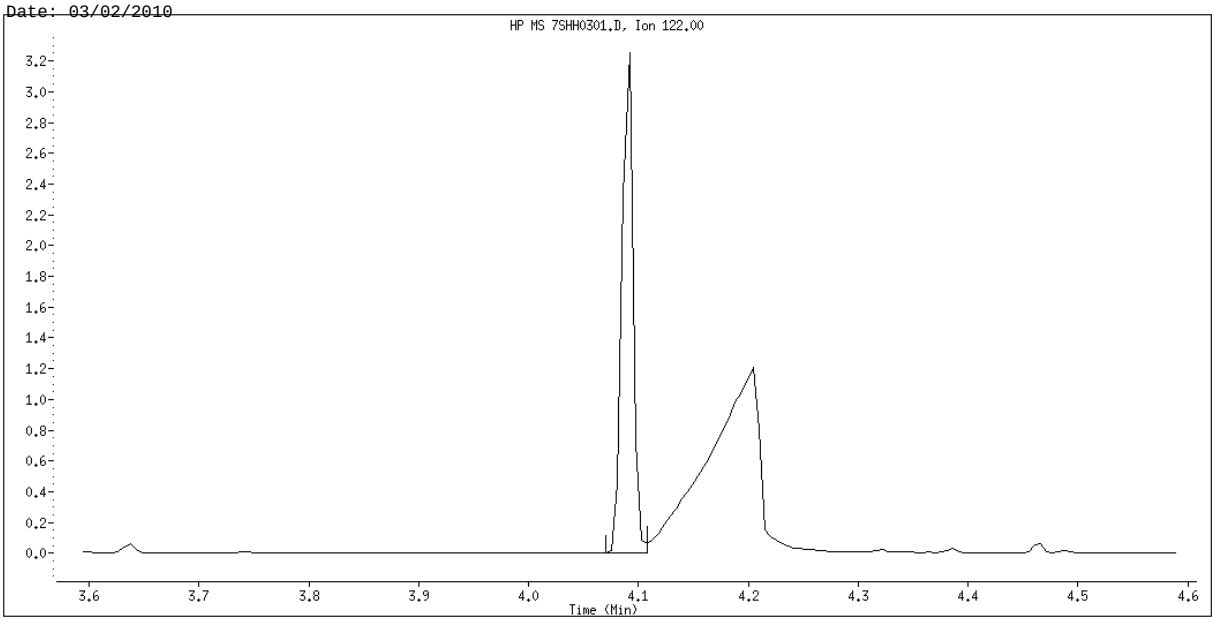
Operator: 001710

Column phase: db5.625

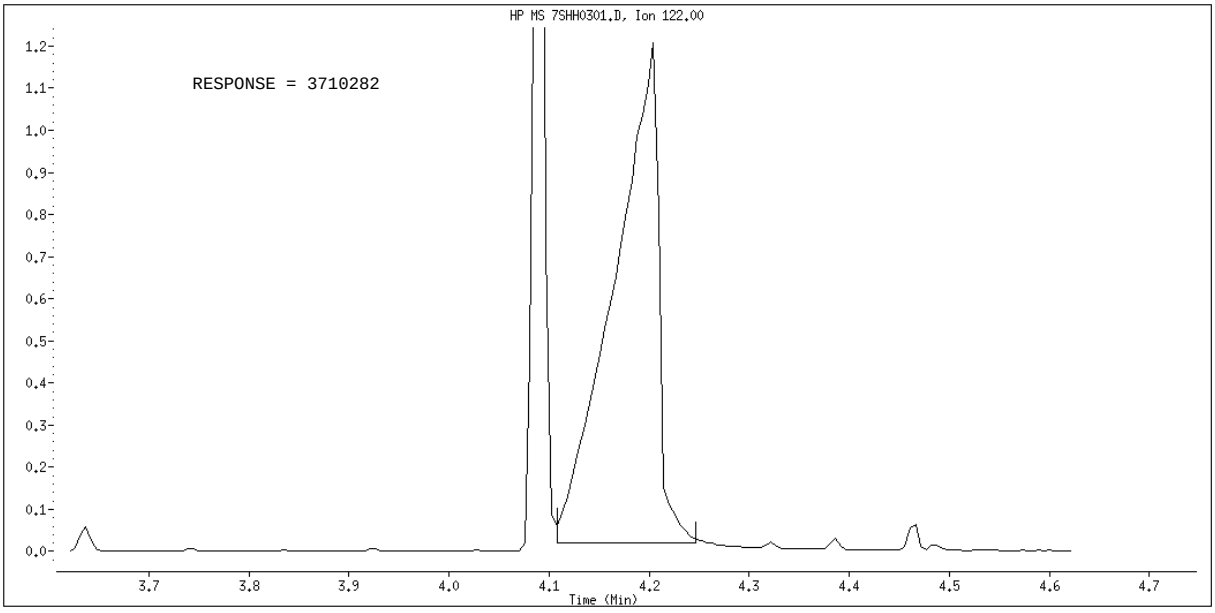
Column diameter: 0.32



Data File Name: 7SHH0301.D
Inj. Date and Time: 01-MAR-2010 17:20
Instrument ID: a4hp7.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 03/02/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SHHH0301.D
Lab Smp Id: l9
Inj Date : 01-MAR-2010 17:01
Operator : 001710   Inst ID: a4hp7.i
Smp Info : l9,00301a.b,8270C-625,1-827042d.sub,1,,9
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:09 a4hp7.i   Quant Type: ISTD
Cal Date : 01-MAR-2010 16:41   Cal File: 7SLL0301.D
Als bottle: 7   Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.476	3.476	(1.000)	250081	2.00000	(Q)
*	2 Naphthalene-d8	136	4.369	4.369	(1.000)	1087787	2.00000	
*	3 Acenaphthene-d10	164	5.637	5.637	(1.000)	604247	2.00000	
*	4 Phenanthrene-d10	188	6.723	6.723	(1.000)	1078357	2.00000	
*	5 Chrysene-d12	240	8.675	8.675	(1.000)	1380855	2.00000	
*	6 Perylene-d12	264	10.050	10.050	(1.000)	1264016	2.00000	
	9 Pyridine	79	1.877	1.877	(0.540)	2126098	12.5000	13.233
	10 N-Nitrosodimethylamine	74	1.850	1.850	(0.532)	1177245	12.5000	12.699
	11 Ethyl methacrylate	69	2.086	2.086	(0.600)	1847039	12.5000	13.166
	12 3-Chloropropionitrile	54	2.246	2.246	(0.646)	1376236	12.5000	12.582
	13 Malononitrile	66	2.391	2.391	(0.688)	2594036	12.5000	12.533
	209 Benzaldehyde	77	Compound Not Detected.					
	21 Aniline	93	3.252	3.252	(0.935)	3374544	12.5000	13.197
	22 Phenol	94	3.198	3.198	(0.920)	2737248	12.5000	13.592
	23 bis(2-Chloroethyl)ether	93	3.273	3.273	(0.942)	2498397	12.5000	14.056
	24 2-Chlorophenol	128	3.337	3.337	(0.960)	2141199	12.5000	13.347
	26 1,3-Dichlorobenzene	146	3.444	3.444	(0.991)	2216595	12.5000	13.277
	27 1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	2151561	12.5000	13.114
	28 1,2-Dichlorobenzene	146	3.599	3.599	(1.035)	2138896	12.5000	13.404
	29 Benzyl Alcohol	108	3.551	3.551	(1.022)	1444712	12.5000	13.708
	30 2-Methylphenol	108	3.610	3.610	(1.038)	2017373	12.5000	14.426
	31 bis(2-Chloroisopropyl)ether	45	3.637	3.637	(1.046)	3626384	12.5000	12.898
	37 Acetophenone	105	3.738	3.738	(1.075)	2966160	12.5000	13.349
	32 N-Nitroso-di-n-propylamine	70	3.733	3.733	(1.074)	1655056	12.5000	13.554
	192 4-Methylphenol	108	3.717	3.717	(1.069)	2061674	12.5000	12.322
	34 Hexachloroethane	117	3.835	3.835	(1.103)	866452	12.5000	13.276
	35 Nitrobenzene	77	3.867	3.867	(0.885)	2312838	12.5000	12.901
	41 Isophorone	82	4.027	4.027	(0.922)	4501484	12.5000	13.472
	42 2-Nitrophenol	139	4.091	4.091	(0.936)	1209406	12.5000	13.567
	43 2,4-Dimethylphenol	107	4.091	4.091	(0.936)	2157869	12.5000	12.388
	44 bis(2-Chloroethoxy)methane	93	4.156	4.156	(0.951)	2611480	12.5000	13.172

46	2,4-Toluenediamene	121	5.193	5.193 (1.188)	911340	12.5000	12.418
47	1,3,5-Trichlorobenzene	180	4.102	4.102 (0.939)	1816126	12.5000	13.031

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.257	4.257	(0.974)	1585740	12.5000	12.331
49	Benzoic Acid	122	4.204	4.204	(0.962)	3655608	25.0000	24.817(H)
50	1,2,4-Trichlorobenzene	180	4.321	4.321	(0.989)	1772562	12.5000	13.001
51	Naphthalene	128	4.386	4.386	(1.004)	5817052	12.5000	12.026
52	4-Chloroaniline	127	4.402	4.402	(1.007)	2610057	12.5000	14.593
56	Hexachlorobutadiene	225	4.466	4.466	(1.022)	929737	12.5000	13.123
210	Caprolactam	113	4.674	4.674	(1.070)	825493	12.5000	14.947(H)
57	1,2,3-Trichlorobenzene	180	4.487	4.487	(1.027)	1683424	12.5000	13.320
59	4-Chloro-3-Methylphenol	107	4.733	4.733	(1.083)	2008566	12.5000	14.358
62	2-Methylnaphthalene	142	4.878	4.878	(1.116)	3641200	12.5000	13.922
63	1-Methylnaphthalene	142	4.952	4.952	(1.133)	4168215	12.5000	13.631
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.885)	1123468	12.5000	13.129
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.899)	1217690	12.5000	14.043
67	2,4,5-Trichlorophenol	196	5.102	5.102	(0.905)	1314089	12.5000	13.522
211	1,1'-Biphenyl	154	5.209	5.209	(0.924)	5451770	12.5000	13.007
68	1,2,3,5-Tetrachlorobenzene	216	4.990	4.990	(0.885)	1791217	12.5000	12.996
70	2-Chloronaphthalene	162	5.236	5.236	(0.929)	3960987	12.5000	13.081
73	2-Nitroaniline	65	5.289	5.289	(0.938)	1429758	12.5000	13.538
74	1,2,3,4-Tetrachlorobenzene	216	5.209	5.209	(0.924)	1616856	12.5000	12.952
76	Dimethylphthalate	163	5.407	5.407	(0.959)	4807141	12.5000	13.655
78	2,6-Dinitrotoluene	165	5.455	5.455	(0.968)	1168430	12.5000	14.331
79	Acenaphthylene	152	5.536	5.536	(0.982)	6600014	12.5000	13.180
80	1,2-Dinitrobenzene	168	5.509	5.509	(0.977)	597450	12.5000	14.843
81	3-Nitroaniline	138	5.589	5.589	(0.991)	1325353	12.5000	13.995
82	Acenaphthene	153	5.664	5.664	(1.005)	4286642	12.5000	12.912(Q)
83	2,4-Dinitrophenol	184	5.664	5.664	(1.005)	1932988	25.0000	25.056(Q)
85	4-Nitrophenol	109	5.691	5.691	(1.009)	693749	12.5000	12.480(QH)
86	Dibenzofuran	168	5.787	5.787	(1.027)	5638590	12.5000	12.962
87	2,4-Dinitrotoluene	165	5.755	5.755	(1.021)	1649142	12.5000	14.697
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.035)	1200362	12.5000	14.528
93	Diethylphthalate	149	5.910	5.910	(1.048)	5104782	12.5000	13.864
94	Fluorene	166	6.038	6.038	(1.071)	5067630	12.5000	13.550
95	4-Chlorophenyl-phenylether	204	6.017	6.017	(1.067)	2282176	12.5000	13.800
96	4-Nitroaniline	138	6.038	6.038	(1.071)	1533215	12.5000	15.731
98	4,6-Dinitro-2-methylphenol	198	6.054	6.054	(0.901)	1089541	12.5000	13.806
99	N-Nitrosodiphenylamine	169	6.097	6.097	(0.907)	3823682	12.5000	12.702
100	1,2-Diphenylhydrazine	77	6.135	6.135	(0.912)	5536109	12.5000	12.281
106	4-Bromophenyl-phenylether	248	6.375	6.375	(0.948)	1395034	12.5000	13.121
107	Hexachlorobenzene	284	6.445	6.445	(0.959)	1327015	12.5000	12.875
212	Atrazine	200	6.466	6.466	(0.962)	844215	12.5000	12.430
111	Pentachlorophenol	266	6.578	6.578	(0.979)	2031213	25.0000	24.921
115	Phenanthrene	178	6.739	6.739	(1.002)	7083841	12.5000	12.160
116	Anthracene	178	6.776	6.776	(1.008)	6992213	12.5000	11.917
119	Carbazole	167	6.878	6.878	(1.023)	7172608	12.5000	12.782
120	Di-n-Butylphthalate	149	7.087	7.087	(1.054)	7342654	12.5000	11.388
123	Fluoranthene	202	7.611	7.611	(1.132)	7142981	12.5000	12.105
124	Benzidine	184	7.680	7.680	(0.885)	5208811	12.5000	13.469
125	Pyrene	202	7.782	7.782	(0.897)	7813777	12.5000	11.494
131	Butylbenzylphthalate	149	8.188	8.188	(0.944)	4359094	12.5000	13.057
133	3,3'-Dimethoxybenzidine	244	8.590	8.590	(0.990)	1774795	12.5000	12.585
135	3,3'-Dichlorobenzidine	252	8.627	8.627	(0.994)	3357374	12.5000	13.538
136	Benzo(a)Anthracene	228	8.670	8.670	(0.999)	8355473	12.5000	12.258

137 Chrysene	228	8.702	8.702 (1.003)	7689985	12.5000	12.135
138 4,4'-Methylene bis(o-chloroan	231	8.622	8.622 (0.994)	1777985	12.5000	13.862

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.600	8.600	(0.991)	6101211	12.5000	12.843
140	Di-n-octylphthalate	149	9.114	9.114	(0.907)	9203476	12.5000	12.126
141	Benzo(b)fluoranthene	252	9.633	9.633	(0.958)	9644281	12.5000	15.145
142	Benzo(k)fluoranthene	252	9.665	9.665	(0.962)	8551643	12.5000	12.152
146	Benzo(a)pyrene	252	9.996	9.996	(0.995)	8300973	12.5000	13.644
149	Indeno(1,2,3-cd)pyrene	276	11.563	11.563	(1.151)	9432950	12.5000	13.910
150	Dibenz(a,h)anthracene	278	11.563	11.563	(1.151)	7913769	12.5000	14.002
151	Benzo(g,h,i)perylene	276	12.013	12.013	(1.195)	7815670	12.5000	14.104
198	1,4-Dioxane	88	1.690	1.690	(0.486)	813848	12.5000	13.462
$ 154	Nitrobenzene-d5	82	3.851	3.851	(0.881)	2402006	12.5000	12.487
$ 155	2-Fluorobiphenyl	172	5.129	5.129	(0.910)	4508523	12.5000	13.157
$ 156	Terphenyl-d14	244	7.857	7.857	(0.906)	5605063	12.5000	13.087
$ 157	Phenol-d5	99	3.187	3.187	(0.917)	2646362	12.5000	14.144
$ 158	2-Fluorophenol	112	2.610	2.610	(0.751)	1883479	12.5000	13.174
$ 159	2,4,6-Tribromophenol	330	6.209	6.209	(1.102)	646726	12.5000	15.296
$ 186	2-Chlorophenol-d4	132	3.327	3.327	(0.957)	1973006	12.5000	13.428
$ 187	1,2-Dichlorobenzene-d4	152	3.589	3.589	(1.032)	1328935	12.5000	13.217
M 195	Cresols, total	100				4079047	12.5000	
101	Diphenylamine	169	6.097	6.097	(0.907)	3823682	12.5000	12.702

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

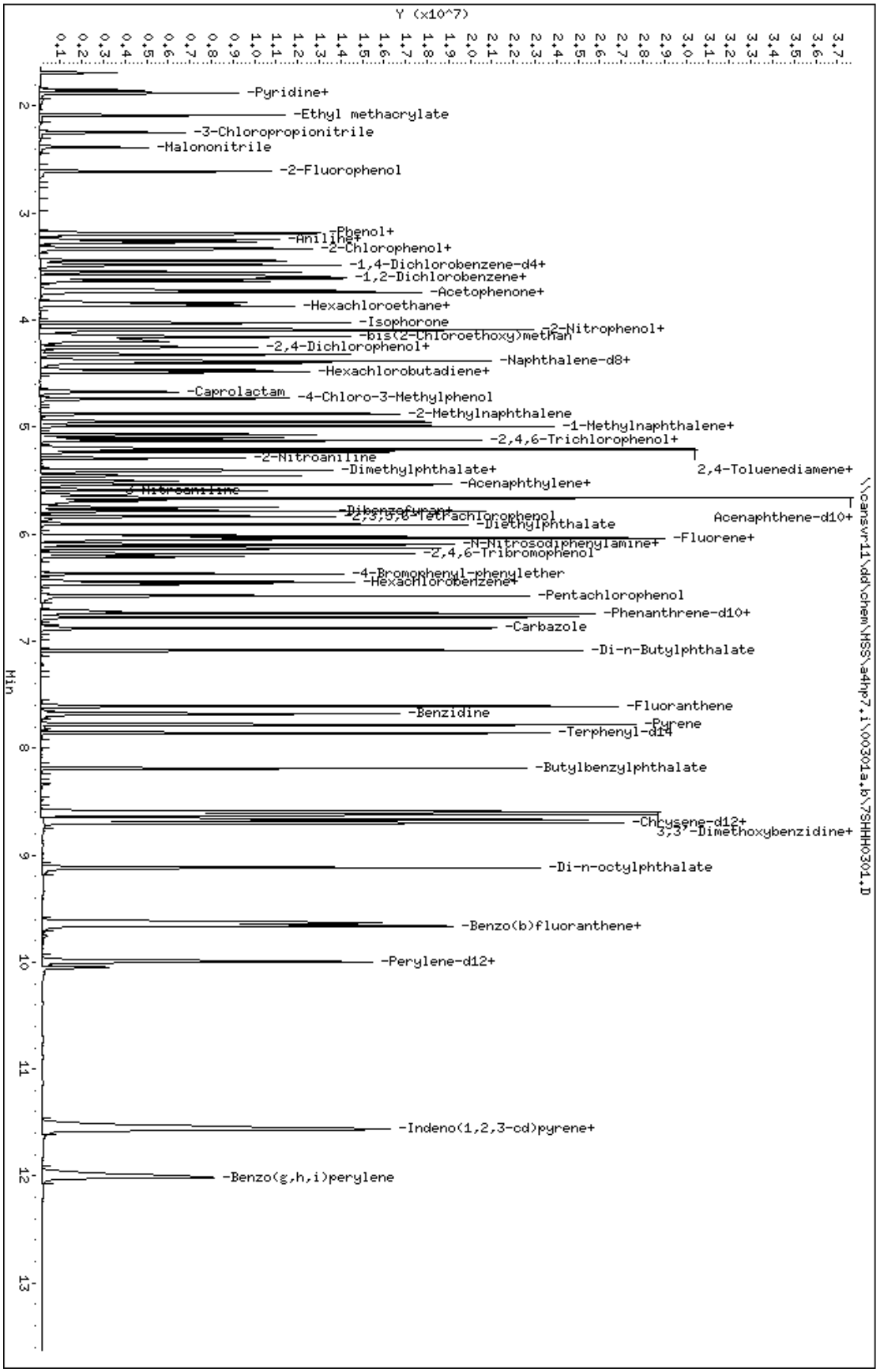
Instrument ID: a4hp7.i
Lab File ID: 7SHHH0301.D
Lab Smp Id: l9
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 17:59
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	372908	186454	745816	250081	-32.94
2 Naphthalene-d8	1563613	781807	3127226	1087787	-30.43
3 Acenaphthene-d10	831448	415724	1662896	604247	-27.33
4 Phenanthrene-d10	1312591	656296	2625182	1078357	-17.85
5 Chrysene-d12	1565944	782972	3131888	1380855	-11.82
6 Perylene-d12	1416519	708260	2833038	1264016	-10.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	0.00
2 Naphthalene-d8	4.37	3.87	4.87	4.37	0.00
3 Acenaphthene-d10	5.64	5.14	6.14	5.64	0.00
4 Phenanthrene-d10	6.72	6.22	7.22	6.72	0.08
5 Chrysene-d12	8.67	8.17	9.17	8.68	0.06
6 Perylene-d12	10.04	9.54	10.54	10.05	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SHHH0301.D
Date : 01-MAR-2010 17:01
Client ID:
Sample Info: 19,00301a,b,8270C-625,1-8270424,sub,1,,9
Column phase: db5.625

Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SL0301.D
Lab Smp Id: l2
Inj Date : 01-MAR-2010 16:22
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l2,00301a.b,8270C-625,1-827042d.sub,1,,2
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:09 a4hp7.i Quant Type: ISTD
Cal Date : 01-MAR-2010 20:34 Cal File: 7AML0301.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.476	3.476	(1.000)	349142	2.00000	
* 2	Naphthalene-d8	136	4.364	4.364	(1.000)	1404682	2.00000	
* 3	Acenaphthene-d10	164	5.632	5.632	(1.000)	722162	2.00000	
* 4	Phenanthrene-d10	188	6.717	6.717	(1.000)	1164406	2.00000	
* 5	Chrysene-d12	240	8.670	8.670	(1.000)	1311733	2.00000	
* 6	Perylene-d12	264	10.050	10.050	(1.000)	1192520	2.00000	
9	Pyridine	79	1.882	1.882	(0.542)	56670	0.25000	0.25264
10	N-Nitrosodimethylamine	74	1.850	1.850	(0.532)	33845	0.25000	0.26150
11	Ethyl methacrylate	69	2.085	2.085	(0.600)	50318	0.25000	0.25692
12	3-Chloropropionitrile	54	2.241	2.241	(0.645)	41004	0.25000	0.26852
13	Malononitrile	66	2.380	2.380	(0.685)	71443	0.25000	0.24723
209	Benzaldehyde	77	3.182	3.182	(0.915)	43208	0.25000	0.25364
21	Aniline	93	3.246	3.246	(0.934)	86246	0.25000	0.24158
22	Phenol	94	3.193	3.193	(0.918)	63152	0.25000	0.22462
23	bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	58932	0.25000	0.23748
24	2-Chlorophenol	128	3.332	3.332	(0.958)	52465	0.25000	0.23425
26	1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	58053	0.25000	0.24907
27	1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	57279	0.25000	0.25007
28	1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	54452	0.25000	0.24442
29	Benzyl Alcohol	108	3.546	3.546	(1.020)	34784	0.25000	0.23641
30	2-Methylphenol	108	3.610	3.610	(1.038)	40147	0.25000	0.20563
31	bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	102924	0.25000	0.26221
37	Acetophenone	105	3.733	3.733	(1.074)	76500	0.25000	0.24660
32	N-Nitroso-di-n-propylamine	70	3.722	3.722	(1.071)	40572	0.25000	0.23800
192	4-Methylphenol	108	3.711	3.711	(1.068)	33256	0.25000	0.28442
34	Hexachloroethane	117	3.834	3.834	(1.103)	22965	0.25000	0.25204
35	Nitrobenzene	77	3.861	3.861	(0.885)	59171	0.25000	0.25560
41	Isophorone	82	4.022	4.022	(0.922)	101520	0.25000	0.23529
42	2-Nitrophenol	139	4.086	4.086	(0.936)	25316	0.25000	0.21993
43	2,4-Dimethylphenol	107	4.091	4.091	(0.937)	36480	0.25000	0.29769
44	bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.951)	62513	0.25000	0.24418

46	2,4-Toluenediamene	121	5.188	5.188 (1.189)	22698	0.25000	0.23950
47	1,3,5-Trichlorobenzene	180	4.097	4.097 (0.939)	45481	0.25000	0.25271

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48 2,4-Dichlorophenol	162	4.268	4.268	(0.978)	23059	0.25000	0.38741
49 Benzoic Acid	122	Compound Not Detected.					
50 1,2,4-Trichlorobenzene	180	4.321	4.321	(0.990)	43804	0.25000	0.24881
51 Naphthalene	128	4.380	4.380	(1.004)	160991	0.25000	0.25773
52 4-Chloroaniline	127	4.401	4.401	(1.009)	44492	0.25000	0.19264
56 Hexachlorobutadiene	225	4.460	4.460	(1.022)	22430	0.25000	0.24518
210 Caprolactam	113	4.626	4.626	(1.060)	13887	0.25000	0.19472
57 1,2,3-Trichlorobenzene	180	4.482	4.482	(1.027)	39619	0.25000	0.24276
59 4-Chloro-3-Methylphenol	107	4.738	4.738	(1.086)	36081	0.25000	0.19973
62 2-Methylnaphthalene	142	4.872	4.872	(1.116)	79642	0.25000	0.23580
63 1-Methylnaphthalene	142	4.947	4.947	(1.134)	91239	0.25000	0.23106
64 Hexachlorocyclopentadiene	237	4.990	4.990	(0.886)	23031	0.25000	0.22519
66 2,4,6-Trichlorophenol	196	5.070	5.070	(0.900)	21003	0.25000	0.20267
67 2,4,5-Trichlorophenol	196	5.113	5.113	(0.908)	25809	0.25000	0.22221
211 1,1'-Biphenyl	154	5.204	5.204	(0.924)	123567	0.25000	0.24668
68 1,2,3,5-Tetrachlorobenzene	216	4.984	4.984	(0.885)	39151	0.25000	0.23767
70 2-Chloronaphthalene	162	5.225	5.225	(0.928)	88738	0.25000	0.24520
73 2-Nitroaniline	65	5.289	5.289	(0.939)	28396	0.25000	0.22497
74 1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.924)	36074	0.25000	0.24179
76 Dimethylphthalate	163	5.396	5.396	(0.958)	103338	0.25000	0.24562
78 2,6-Dinitrotoluene	165	5.450	5.450	(0.968)	21485	0.25000	0.22048
79 Acenaphthylene	152	5.530	5.530	(0.982)	148203	0.25000	0.24764
80 1,2-Dinitrobenzene	168	5.498	5.498	(0.976)	10065	0.25000	0.20923
81 3-Nitroaniline	138	5.584	5.584	(0.991)	27031	0.25000	0.23882
82 Acenaphthene	153	5.658	5.658	(1.005)	97722	0.25000	0.24630
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	Compound Not Detected.					
86 Dibenzofuran	168	5.781	5.781	(1.027)	133419	0.25000	0.25662
87 2,4-Dinitrotoluene	165	5.744	5.744	(1.020)	28326	0.25000	0.21122
91 2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.036)	19680	0.25000	0.19929
93 Diethylphthalate	149	5.904	5.904	(1.048)	109852	0.25000	0.24963
94 Fluorene	166	6.027	6.027	(1.070)	108755	0.25000	0.24332
95 4-Chlorophenyl-phenylether	204	6.011	6.011	(1.067)	47708	0.25000	0.24138
96 4-Nitroaniline	138	6.038	6.038	(1.072)	23816	0.25000	0.20445
98 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99 N-Nitrosodiphenylamine	169	6.092	6.092	(0.907)	80275	0.25000	0.24696
100 1,2-Diphenylhydrazine	77	6.124	6.124	(0.912)	123506	0.25000	0.25374
106 4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	27837	0.25000	0.24247
107 Hexachlorobenzene	284	6.439	6.439	(0.959)	26432	0.25000	0.23750
212 Atrazine	200	6.455	6.455	(0.961)	16500	0.25000	0.22500
111 Pentachlorophenol	266	6.584	6.584	(0.980)	26193	0.50000	0.65134
115 Phenanthrene	178	6.733	6.733	(1.002)	155381	0.25000	0.24700
116 Anthracene	178	6.771	6.771	(1.008)	161441	0.25000	0.25481
119 Carbazole	167	6.878	6.878	(1.024)	145163	0.25000	0.23957
120 Di-n-Butylphthalate	149	7.081	7.081	(1.054)	177707	0.25000	0.25524
123 Fluoranthene	202	7.605	7.605	(1.132)	156251	0.25000	0.24522
124 Benzidine	184	7.680	7.680	(0.886)	73336	0.25000	0.19962
125 Pyrene	202	7.776	7.776	(0.897)	165409	0.25000	0.25613
131 Butylbenzylphthalate	149	8.188	8.188	(0.944)	75752	0.25000	0.23886
133 3,3'-Dimethoxybenzidine	244	8.584	8.584	(0.990)	27829	0.25000	0.20774
135 3,3'-Dichlorobenzidine	252	8.622	8.622	(0.994)	54255	0.25000	0.23030
136 Benzo(a)Anthracene	228	8.664	8.664	(0.999)	160357	0.25000	0.24765

137 Chrysene	228	8.691	8.691 (1.002)	154532	0.25000	0.25671
138 4,4'-Methylene bis(o-chloroan	231	8.616	8.616 (0.994)	26366	0.25000	0.21640

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.595	8.595	(0.991)	107915	0.25000	0.23914
140	Di-n-octylphthalate	149	9.114	9.114	(0.907)	162063	0.25000	0.22632
141	Benzo(b)fluoranthene	252	9.622	9.622	(0.957)	136101	0.25000	0.22654
142	Benzo(k)fluoranthene	252	9.648	9.648	(0.960)	166599	0.25000	0.25094
146	Benzo(a)pyrene	252	9.980	9.980	(0.993)	137100	0.25000	0.23885
149	Indeno(1,2,3-cd)pyrene	276	11.515	11.515	(1.146)	145789	0.25000	0.22787
150	Dibenz(a,h)anthracene	278	11.520	11.520	(1.146)	125874	0.25000	0.23607
151	Benzo(g,h,i)perylene	276	11.970	11.970	(1.191)	118829	0.25000	0.22730
198	1,4-Dioxane	88	1.690	1.690	(0.486)	22190	0.25000	0.26291
$ 154	Nitrobenzene-d5	82	3.845	3.845	(0.881)	63999	0.25000	0.25765
$ 155	2-Fluorobiphenyl	172	5.124	5.124	(0.910)	98534	0.25000	0.24060
$ 156	Terphenyl-d14	244	7.857	7.857	(0.906)	98403	0.25000	0.24187
$ 157	Phenol-d5	99	3.182	3.182	(0.915)	61081	0.25000	0.23384
$ 158	2-Fluorophenol	112	2.615	2.615	(0.752)	50880	0.25000	0.25492
$ 159	2,4,6-Tribromophenol	330	6.209	6.209	(1.103)	10011	0.25000	0.19812
$ 186	2-Chlorophenol-d4	132	3.321	3.321	(0.955)	47895	0.25000	0.23347
$ 187	1,2-Dichlorobenzene-d4	152	3.583	3.583	(1.031)	35040	0.25000	0.24961
M 195	Cresols, total	100				73403	0.25000	
101	Diphenylamine	169	6.092	6.092	(0.907)	80275	0.25000	0.24696

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SL0301.D
Lab Smp Id: l2
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 17:59
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	372908	186454	745816	349142	-6.37
2 Naphthalene-d8	1563613	781807	3127226	1404682	-10.16
3 Acenaphthene-d10	831448	415724	1662896	722162	-13.14
4 Phenanthrene-d10	1312591	656296	2625182	1164406	-11.29
5 Chrysene-d12	1565944	782972	3131888	1311733	-16.23
6 Perylene-d12	1416519	708260	2833038	1192520	-15.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	-0.00
2 Naphthalene-d8	4.37	3.87	4.87	4.36	-0.12
3 Acenaphthene-d10	5.64	5.14	6.14	5.63	-0.10
4 Phenanthrene-d10	6.72	6.22	7.22	6.72	-0.00
5 Chrysene-d12	8.67	8.17	9.17	8.67	-0.00
6 Perylene-d12	10.04	9.54	10.54	10.05	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SL0301.D

Page 1

Date : 01-MAR-2010 16:22

Client ID:

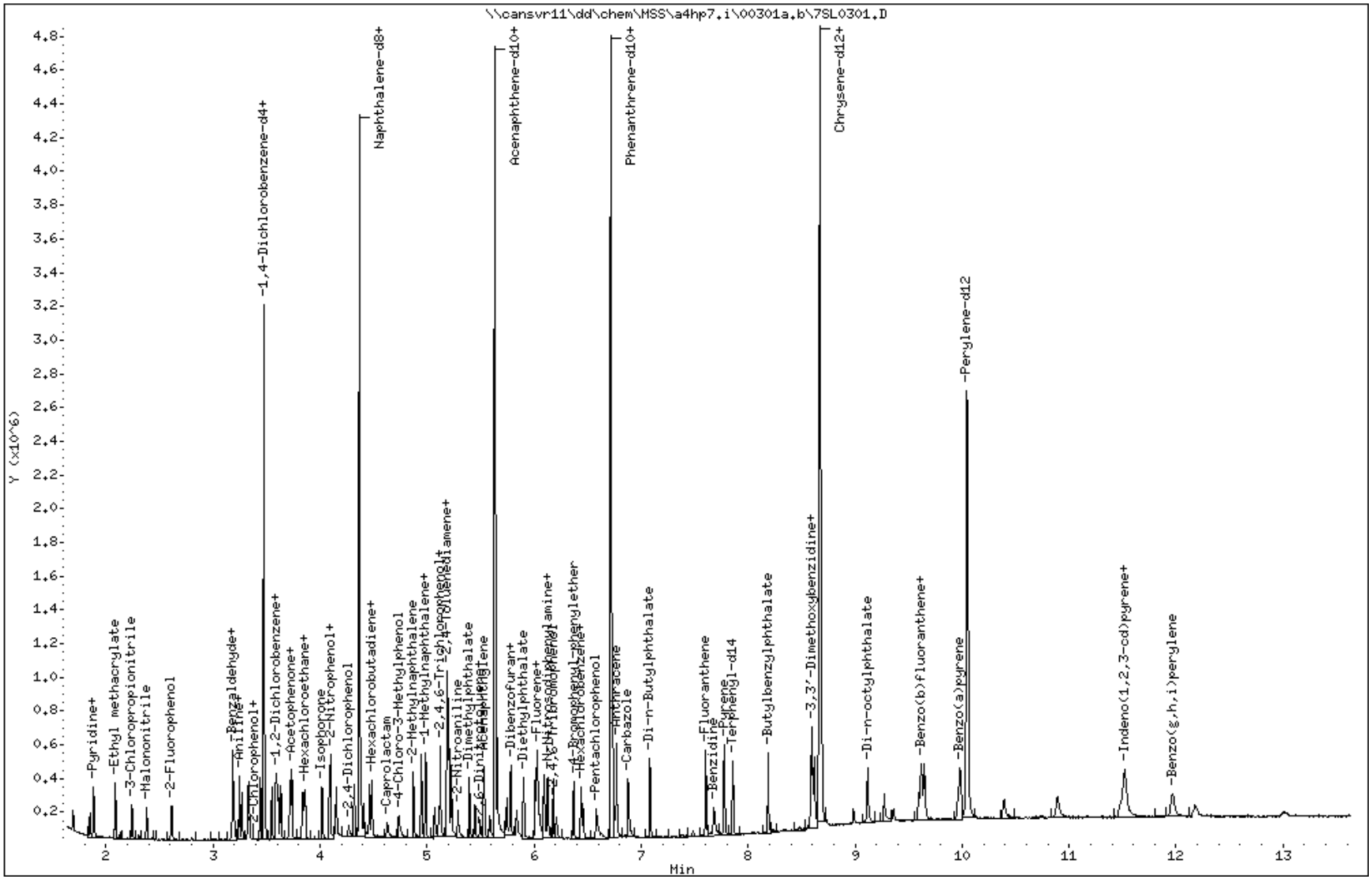
Instrument: a4hp7.i

Sample Info: l2,00301a.b,8270C-625,1-827042d.sub,1,,2

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SLL0301.D
Lab Smp Id: l1
Inj Date : 01-MAR-2010 16:41
Operator : 001710   Inst ID: a4hp7.i
Smp Info : l1,00301a.b,8270C-625,pah.sub,1,,1
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:09 a4hp7.i Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53   Cal File: 7AL0301.D
Als bottle: 6   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.476	3.476	(1.000)	355427	2.00000	
* 2	Naphthalene-d8	136	4.364	4.364	(1.000)	1417789	2.00000	
* 3	Acenaphthene-d10	164	5.632	5.632	(1.000)	749080	2.00000	
* 4	Phenanthrene-d10	188	6.718	6.718	(1.000)	1164247	2.00000	
* 5	Chrysene-d12	240	8.670	8.670	(1.000)	1347595	2.00000	
* 6	Perylene-d12	264	10.050	10.050	(1.000)	1208933	2.00000	
23	bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	12923	0.05000	0.051155
35	Nitrobenzene	77	3.861	3.861	(0.885)	11319	0.05000	0.048443
51	Naphthalene	128	4.380	4.380	(1.004)	32455	0.05000	0.051477
56	Hexachlorobutadiene	225	4.460	4.460	(1.022)	4625	0.05000	0.050088
62	2-Methylnaphthalene	142	4.878	4.878	(1.118)	14081	0.05000	0.041306
63	1-Methylnaphthalene	142	4.947	4.947	(1.134)	19049	0.05000	0.047795
70	2-Chloronaphthalene	162	5.231	5.231	(0.929)	18117	0.05000	0.048262
79	Acenaphthylene	152	5.536	5.536	(0.983)	29206	0.05000	0.047048
82	Acenaphthene	153	5.659	5.659	(1.005)	21727	0.05000	0.052793
86	Dibenzofuran	168	5.782	5.782	(1.027)	25649	0.05000	0.047562
94	Fluorene	166	6.033	6.033	(1.071)	22444	0.05000	0.048410
107	Hexachlorobenzene	284	6.439	6.439	(0.959)	5859	0.05000	0.052653
111	Pentachlorophenol	266	Compound Not Detected.					
115	Phenanthrene	178	6.734	6.734	(1.002)	33577	0.05000	0.053383
116	Anthracene	178	6.771	6.771	(1.008)	33597	0.05000	0.053035
123	Fluoranthene	202	7.605	7.605	(1.132)	34385	0.05000	0.053971
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.777	7.777	(0.897)	33001	0.05000	0.049741
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	8.665	8.665	(0.999)	37618	0.05000	0.056550
137	Chrysene	228	8.691	8.691	(1.002)	31287	0.05000	0.050590
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	9.622	9.622	(0.957)	27067	0.05000	0.044440
142	Benzo(k)fluoranthene	252	9.649	9.649	(0.960)	34914	0.05000	0.051875
146	Benzo(a)pyrene	252	9.986	9.986	(0.994)	28234	0.05000	0.048520

149 Indeno(1,2,3-cd)pyrene	276	11.521	11.521 (1.146)	28837	0.05000	0.044460
150 Dibenz(a,h)anthracene	278	11.526	11.526 (1.147)	22956	0.05000	0.042468

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
151 Benzo(g,h,i)perylene	276	11.970	11.970	(1.191)	23891	0.05000	0.045078
$ 154 Nitrobenzene-d5	82	3.845	3.845	(0.881)	12794	0.05000	0.051030
$ 155 2-Fluorobiphenyl	172	5.124	5.124	(0.910)	19812	0.05000	0.046638
$ 156 Terphenyl-d14	244	7.857	7.857	(0.906)	21284	0.05000	0.050922
$ 157 Phenol-d5	99	3.188	3.188	(0.917)	10829	0.05000	0.040724
$ 158 2-Fluorophenol	112	2.615	2.615	(0.752)	9593	0.05000	0.047213
$ 159 2,4,6-Tribromophenol	330	Compound Not Detected.					

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SLL0301.D
Lab Smp Id: l1
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 17:59
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	372908	186454	745816	355427	-4.69
2 Naphthalene-d8	1563613	781807	3127226	1417789	-9.33
3 Acenaphthene-d10	831448	415724	1662896	749080	-9.91
4 Phenanthrene-d10	1312591	656296	2625182	1164247	-11.30
5 Chrysene-d12	1565944	782972	3131888	1347595	-13.94
6 Perylene-d12	1416519	708260	2833038	1208933	-14.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	0.00
2 Naphthalene-d8	4.37	3.87	4.87	4.36	-0.12
3 Acenaphthene-d10	5.64	5.14	6.14	5.63	-0.09
4 Phenanthrene-d10	6.72	6.22	7.22	6.72	0.00
5 Chrysene-d12	8.67	8.17	9.17	8.67	0.00
6 Perylene-d12	10.04	9.54	10.54	10.05	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SLL0301.D

Page 1

Date : 01-MAR-2010 16:41

Client ID:

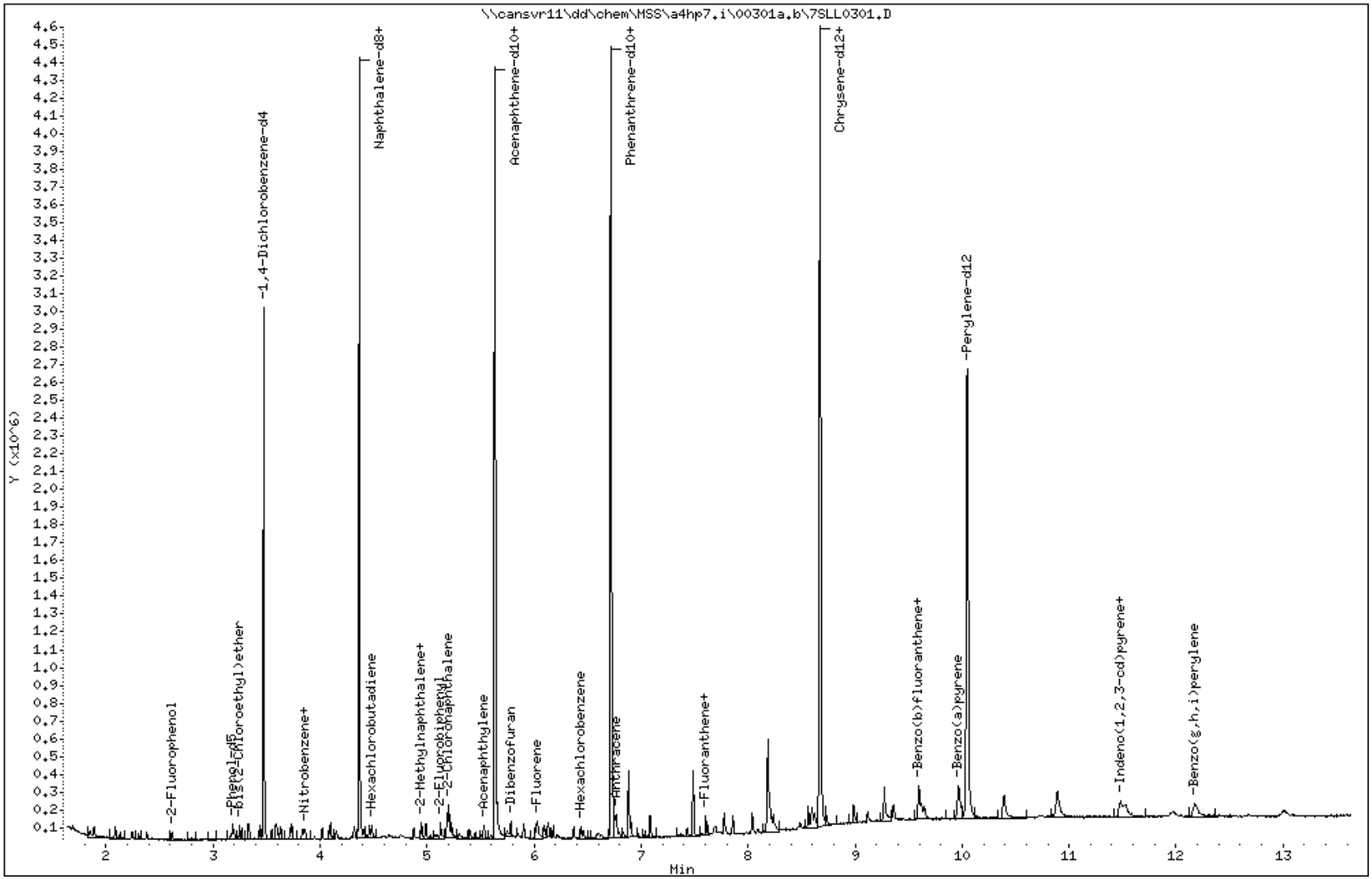
Instrument: a4hp7.i

Sample Info: l1,00301a.b,8270C-625,pah.sub,1,,1

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SM0301.D
Lab Smp Id: l4
Inj Date : 01-MAR-2010 15:43
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l4,00301a.b,8270C-625,1-827042d.sub,1,,4
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:09 a4hp7.i Quant Type: ISTD
Cal Date : 01-MAR-2010 19:55 Cal File: 7AMM0301.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.476	3.476	(1.000)	312689	2.00000	
* 2	Naphthalene-d8	136	4.364	4.364	(1.000)	1284263	2.00000	
* 3	Acenaphthene-d10	164	5.632	5.632	(1.000)	675910	2.00000	
* 4	Phenanthrene-d10	188	6.717	6.717	(1.000)	1064802	2.00000	
* 5	Chrysene-d12	240	8.675	8.675	(1.000)	1227570	2.00000	
* 6	Perylene-d12	264	10.050	10.050	(1.000)	1119943	2.00000	
9	Pyridine	79	1.882	1.882	(0.542)	196420	1.00000	0.97775
10	N-Nitrosodimethylamine	74	1.845	1.845	(0.531)	112786	1.00000	0.97303
11	Ethyl methacrylate	69	2.086	2.086	(0.600)	173731	1.00000	0.99047
12	3-Chloropropionitrile	54	2.241	2.241	(0.645)	131938	1.00000	0.96472
13	Malononitrile	66	2.380	2.380	(0.685)	252001	1.00000	0.97373
209	Benzaldehyde	77	3.182	3.182	(0.915)	149232	1.00000	0.94812
21	Aniline	93	3.246	3.246	(0.934)	313871	1.00000	0.98168
22	Phenol	94	3.193	3.193	(0.918)	240793	1.00000	0.95630
23	bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	203782	1.00000	0.91691
24	2-Chlorophenol	128	3.332	3.332	(0.958)	191582	1.00000	0.95512
26	1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	202755	1.00000	0.97130
27	1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	197599	1.00000	0.96324
28	1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	192138	1.00000	0.96302
29	Benzyl Alcohol	108	3.546	3.546	(1.020)	124480	1.00000	0.94465
30	2-Methylphenol	108	3.605	3.605	(1.037)	163627	1.00000	0.93579
31	bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	347935	1.00000	0.98976
37	Acetophenone	105	3.733	3.733	(1.074)	268087	1.00000	0.96493
32	N-Nitroso-di-n-propylamine	70	3.722	3.722	(1.071)	146004	1.00000	0.95632
192	4-Methylphenol	108	3.706	3.706	(1.066)	154923	1.00000	0.97504
34	Hexachloroethane	117	3.835	3.835	(1.103)	78224	1.00000	0.95861
35	Nitrobenzene	77	3.861	3.861	(0.885)	209438	1.00000	0.98955
41	Isophorone	82	4.016	4.016	(0.920)	385134	1.00000	0.97632
42	2-Nitrophenol	139	4.086	4.086	(0.936)	101514	1.00000	0.96457
43	2,4-Dimethylphenol	107	4.086	4.086	(0.936)	157896	1.00000	0.97721
44	bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.951)	229606	1.00000	0.98096

46	2,4-Toluenediamene	121	5.182	5.182 (1.187)	87081	1.00000	1.0050
47	1,3,5-Trichlorobenzene	180	4.097	4.097 (0.939)	161248	1.00000	0.97997

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.257	4.257	(0.975)	102068	1.00000	0.97620
49	Benzoic Acid	122	4.123	4.123	(0.945)	130004	2.00000	1.9570
50	1,2,4-Trichlorobenzene	180	4.321	4.321	(0.990)	157213	1.00000	0.97672
51	Naphthalene	128	4.380	4.380	(1.004)	576012	1.00000	1.0086
52	4-Chloroaniline	127	4.402	4.402	(1.009)	178497	1.00000	0.84533
56	Hexachlorobutadiene	225	4.460	4.460	(1.022)	79838	1.00000	0.95452
210	Caprolactam	113	4.632	4.632	(1.061)	62020	1.00000	0.95116
57	1,2,3-Trichlorobenzene	180	4.482	4.482	(1.027)	144195	1.00000	0.96640
59	4-Chloro-3-Methylphenol	107	4.728	4.728	(1.083)	158075	1.00000	0.95708
62	2-Methylnaphthalene	142	4.872	4.872	(1.116)	302559	1.00000	0.97981
63	1-Methylnaphthalene	142	4.947	4.947	(1.134)	351745	1.00000	0.97430
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.886)	90858	1.00000	0.94919
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.900)	87053	1.00000	0.89751
67	2,4,5-Trichlorophenol	196	5.102	5.102	(0.906)	106021	1.00000	0.97529
211	1,1'-Biphenyl	154	5.204	5.204	(0.924)	453479	1.00000	0.96723
68	1,2,3,5-Tetrachlorobenzene	216	4.985	4.985	(0.885)	148880	1.00000	0.96563
70	2-Chloronaphthalene	162	5.225	5.225	(0.928)	328995	1.00000	0.97129
73	2-Nitroaniline	65	5.284	5.284	(0.938)	117178	1.00000	0.99189
74	1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.924)	132517	1.00000	0.94898
76	Dimethylphthalate	163	5.396	5.396	(0.958)	369158	1.00000	0.93747
78	2,6-Dinitrotoluene	165	5.450	5.450	(0.968)	84554	1.00000	0.92709
79	Acenaphthylene	152	5.535	5.535	(0.983)	555565	1.00000	0.99184
80	1,2-Dinitrobenzene	168	5.493	5.493	(0.975)	42911	1.00000	0.95307
81	3-Nitroaniline	138	5.584	5.584	(0.991)	98755	1.00000	0.93221
82	Acenaphthene	153	5.658	5.658	(1.005)	357432	1.00000	0.96252
83	2,4-Dinitrophenol	184	5.658	5.658	(1.005)	100404	2.00000	1.9782(Q)
85	4-Nitrophenol	109	5.712	5.712	(1.014)	39326	1.00000	0.99016(Q)
86	Dibenzofuran	168	5.781	5.781	(1.027)	472673	1.00000	0.97137
87	2,4-Dinitrotoluene	165	5.744	5.744	(1.020)	121045	1.00000	0.96439
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.036)	87033	1.00000	0.94165
93	Diethylphthalate	149	5.905	5.905	(1.048)	388958	1.00000	0.94436
94	Fluorene	166	6.033	6.033	(1.071)	400869	1.00000	0.95824
95	4-Chlorophenyl-phenylether	204	6.011	6.011	(1.067)	175318	1.00000	0.94772
96	4-Nitroaniline	138	6.033	6.033	(1.071)	96034	1.00000	0.88084
98	4,6-Dinitro-2-methylphenol	198	6.049	6.049	(0.900)	64460	1.00000	0.82718
99	N-Nitrosodiphenylamine	169	6.092	6.092	(0.907)	291292	1.00000	0.97998
100	1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	438799	1.00000	0.98583
106	4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	101185	1.00000	0.96382
107	Hexachlorobenzene	284	6.439	6.439	(0.959)	96290	1.00000	0.94615
212	Atrazine	200	6.455	6.455	(0.961)	67122	1.00000	1.0009
111	Pentachlorophenol	266	6.578	6.578	(0.979)	124889	2.00000	1.9538
115	Phenanthrene	178	6.734	6.734	(1.002)	573797	1.00000	0.99747
116	Anthracene	178	6.771	6.771	(1.008)	567742	1.00000	0.97992
119	Carbazole	167	6.878	6.878	(1.024)	545234	1.00000	0.98401
120	Di-n-Butylphthalate	149	7.087	7.087	(1.055)	665390	1.00000	1.0451
123	Fluoranthene	202	7.605	7.605	(1.132)	568743	1.00000	0.97608
124	Benzidine	184	7.680	7.680	(0.885)	328924	1.00000	0.95673
125	Pyrene	202	7.777	7.777	(0.896)	611567	1.00000	1.0119
131	Butylbenzylphthalate	149	8.188	8.188	(0.944)	292867	1.00000	0.98678
133	3,3'-Dimethoxybenzidine	244	8.584	8.584	(0.990)	128952	1.00000	1.0286
135	3,3'-Dichlorobenzidine	252	8.622	8.622	(0.994)	214019	1.00000	0.97077
136	Benzo(a)Anthracene	228	8.664	8.664	(0.999)	578641	1.00000	0.95491

137 Chrysene	228	8.691	8.691 (1.002)	564261	1.00000	1.0016
138 4,4'-Methylene bis(o-chloroan	231	8.616	8.616 (0.993)	107427	1.00000	0.94216

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.600	8.600	(0.991)	419198	1.00000	0.99262
140 Di-n-octylphthalate	149	9.119	9.119	(0.907)	668747	1.00000	0.99441
141 Benzo(b)fluoranthene	252	9.622	9.622	(0.957)	565022	1.00000	1.0014
142 Benzo(k)fluoranthene	252	9.649	9.649	(0.960)	577387	1.00000	0.92605
146 Benzo(a)pyrene	252	9.986	9.986	(0.994)	502434	1.00000	0.93204
149 Indeno(1,2,3-cd)pyrene	276	11.521	11.521	(1.146)	582616	1.00000	0.96964
150 Dibenz(a,h)anthracene	278	11.526	11.526	(1.147)	481232	1.00000	0.96101
151 Benzo(g,h,i)perylene	276	11.970	11.970	(1.191)	471396	1.00000	0.96012
198 1,4-Dioxane	88	1.690	1.690	(0.486)	76641	1.00000	1.0139
$ 154 Nitrobenzene-d5	82	3.845	3.845	(0.881)	229363	1.00000	1.0100
$ 155 2-Fluorobiphenyl	172	5.124	5.124	(0.910)	376584	1.00000	0.98246
$ 156 Terphenyl-d14	244	7.857	7.857	(0.906)	364208	1.00000	0.95657
$ 157 Phenol-d5	99	3.182	3.182	(0.915)	225521	1.00000	0.96403
$ 158 2-Fluorophenol	112	2.610	2.610	(0.751)	173309	1.00000	0.96953
$ 159 2,4,6-Tribromophenol	330	6.204	6.204	(1.102)	42803	1.00000	0.90503
$ 186 2-Chlorophenol-d4	132	3.321	3.321	(0.955)	174102	1.00000	0.94764
$ 187 1,2-Dichlorobenzene-d4	152	3.583	3.583	(1.031)	120502	1.00000	0.95848
M 195 Cresols, total	100				318550	1.00000	
101 Diphenylamine	169	6.092	6.092	(0.907)	291292	1.00000	0.97998

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

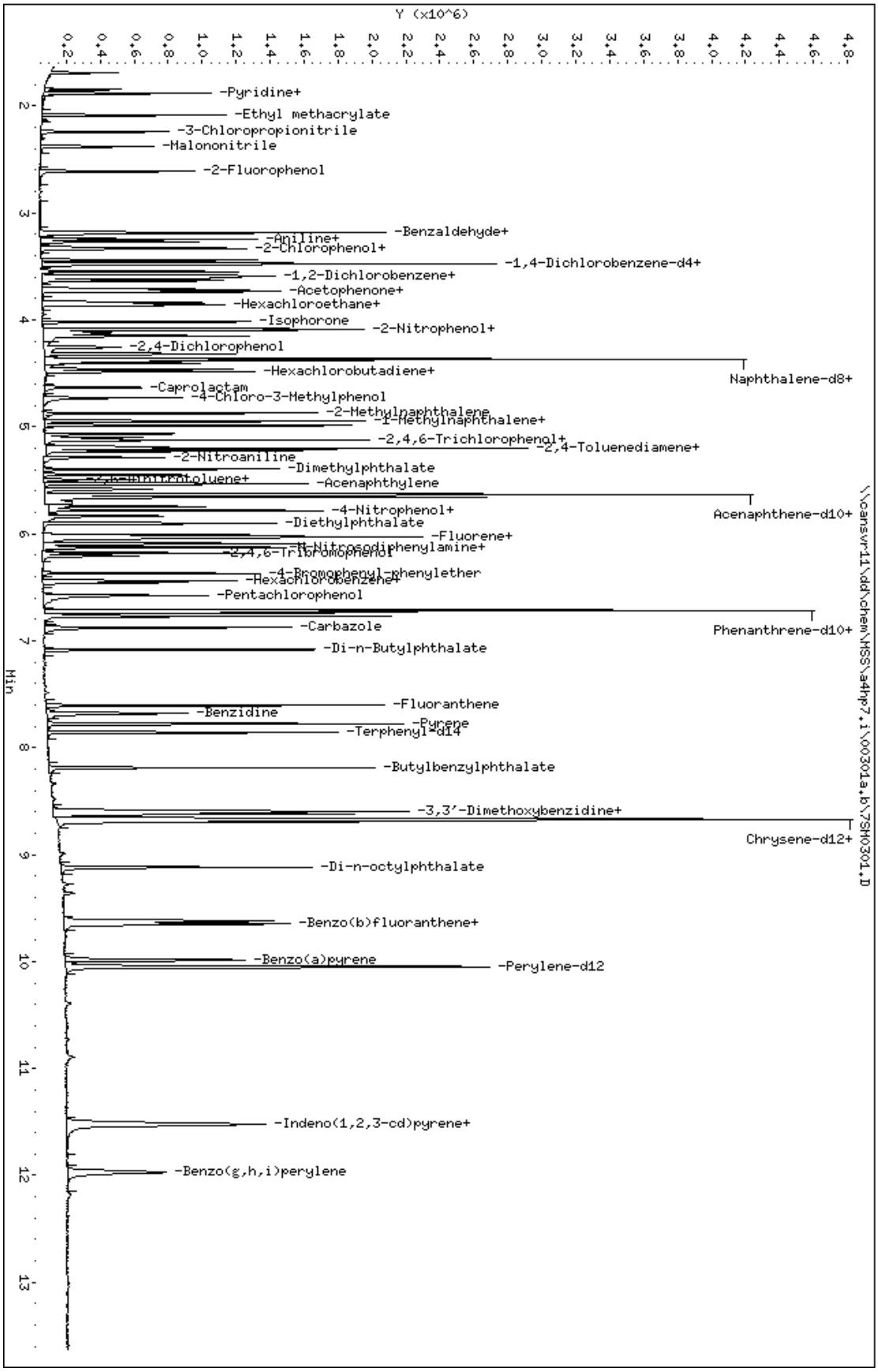
Instrument ID: a4hp7.i
Lab File ID: 7SM0301.D
Lab Smp Id: l4
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 17:59
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	372908	186454	745816	312689	-16.15
2 Naphthalene-d8	1563613	781807	3127226	1284263	-17.87
3 Acenaphthene-d10	831448	415724	1662896	675910	-18.71
4 Phenanthrene-d10	1312591	656296	2625182	1064802	-18.88
5 Chrysene-d12	1565944	782972	3131888	1227570	-21.61
6 Perylene-d12	1416519	708260	2833038	1119943	-20.94

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	0.00
2 Naphthalene-d8	4.37	3.87	4.87	4.36	-0.12
3 Acenaphthene-d10	5.64	5.14	6.14	5.63	-0.09
4 Phenanthrene-d10	6.72	6.22	7.22	6.72	0.00
5 Chrysene-d12	8.67	8.17	9.17	8.68	0.06
6 Perylene-d12	10.04	9.54	10.54	10.05	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SH0301.D
Date : 01-MAR-2010 15:43
Client ID:
Sample Info: 14,00301a,b,8270C-625,1-827042d,sub,1,,4
Column phase: db5.625

Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SMH0301.D
Lab Smp Id: l6
Inj Date : 01-MAR-2010 17:59
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l6,00301a.b,8270C-625,1-827042d.sub,1,,6
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:10 a4hp7.i Quant Type: ISTD
Cal Date : 01-MAR-2010 19:17 Cal File: 7AH0301.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.476	3.476	(1.000)	372908	2.00000	
*	2 Naphthalene-d8	136	4.369	4.369	(1.000)	1563613	2.00000	
*	3 Acenaphthene-d10	164	5.637	5.637	(1.000)	831448	2.00000	
*	4 Phenanthrene-d10	188	6.717	6.717	(1.000)	1312591	2.00000	
*	5 Chrysene-d12	240	8.670	8.670	(1.000)	1565944	2.00000	
*	6 Perylene-d12	264	10.044	10.044	(1.000)	1416519	2.00000	
	9 Pyridine	79	1.877	1.877	(0.540)	1139634	5.00000	4.7568
	10 N-Nitrosodimethylamine	74	1.845	1.845	(0.531)	656716	5.00000	4.7507
	11 Ethyl methacrylate	69	2.086	2.086	(0.600)	987449	5.00000	4.7205
	12 3-Chloropropionitrile	54	2.246	2.246	(0.646)	767896	5.00000	4.7081
	13 Malononitrile	66	2.385	2.385	(0.686)	1500349	5.00000	4.8612
	209 Benzaldehyde	77	3.182	3.182	(0.915)	763852	5.00000	5.3558
	21 Aniline	93	3.246	3.246	(0.934)	1825623	5.00000	4.7879
	22 Phenol	94	3.193	3.193	(0.918)	1480026	5.00000	4.9286
	23 bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	1311788	5.00000	4.9492
	24 2-Chlorophenol	128	3.332	3.332	(0.958)	1182051	5.00000	4.9414
	26 1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	1178289	5.00000	4.7331
	27 1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	1172783	5.00000	4.7938
	28 1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	1148570	5.00000	4.8271
	29 Benzyl Alcohol	108	3.546	3.546	(1.020)	773789	5.00000	4.9238
	30 2-Methylphenol	108	3.610	3.610	(1.038)	1065436	5.00000	5.1093
	31 bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	2009391	5.00000	4.7930
	37 Acetophenone	105	3.738	3.738	(1.075)	1616361	5.00000	4.8783
	32 N-Nitroso-di-n-propylamine	70	3.728	3.728	(1.072)	895094	5.00000	4.9160
	192 4-Methylphenol	108	3.712	3.712	(1.068)	1078328	5.00000	4.8952
	34 Hexachloroethane	117	3.835	3.835	(1.103)	467654	5.00000	4.8055
	35 Nitrobenzene	77	3.861	3.861	(0.884)	1254739	5.00000	4.8692
	41 Isophorone	82	4.022	4.022	(0.920)	2378745	5.00000	4.9528
	42 2-Nitrophenol	139	4.086	4.086	(0.935)	642576	5.00000	5.0148
	43 2,4-Dimethylphenol	107	4.086	4.086	(0.935)	1110612	5.00000	4.9132
	44 bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.950)	1419978	5.00000	4.9828

46	2,4-Toluenediamene	121	5.188	5.188 (1.187)	579265	5.00000	5.4910
47	1,3,5-Trichlorobenzene	180	4.097	4.097 (0.938)	972409	5.00000	4.8539

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.252	4.252	(0.973)	810589	5.00000	4.9065
49	Benzoic Acid	122	4.172	4.172	(0.955)	1584583	10.0000	9.5498(H)
50	1,2,4-Trichlorobenzene	180	4.321	4.321	(0.989)	963556	5.00000	4.9168
51	Naphthalene	128	4.380	4.380	(1.002)	3480021	5.00000	5.0049
52	4-Chloroaniline	127	4.401	4.401	(1.007)	1331383	5.00000	5.1787
56	Hexachlorobutadiene	225	4.460	4.460	(1.021)	500515	5.00000	4.9150
210	Caprolactam	113	4.653	4.653	(1.065)	407152	5.00000	5.1286
57	1,2,3-Trichlorobenzene	180	4.482	4.482	(1.026)	897007	5.00000	4.9377
59	4-Chloro-3-Methylphenol	107	4.728	4.728	(1.082)	1032695	5.00000	5.1355
62	2-Methylnaphthalene	142	4.872	4.872	(1.115)	1916354	5.00000	5.0972
63	1-Methylnaphthalene	142	4.947	4.947	(1.132)	2172323	5.00000	4.9421
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.885)	598919	5.00000	5.0864
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.899)	618867	5.00000	5.1869
67	2,4,5-Trichlorophenol	196	5.102	5.102	(0.905)	678895	5.00000	5.0769
211	1,1'-Biphenyl	154	5.204	5.204	(0.923)	2828390	5.00000	4.9042
68	1,2,3,5-Tetrachlorobenzene	216	4.985	4.985	(0.884)	932656	5.00000	4.9175
70	2-Chloronaphthalene	162	5.231	5.231	(0.928)	2054112	5.00000	4.9299
73	2-Nitroaniline	65	5.289	5.289	(0.938)	713340	5.00000	4.9087
74	1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.923)	854096	5.00000	4.9722
76	Dimethylphthalate	163	5.402	5.402	(0.958)	2364463	5.00000	4.8812
78	2,6-Dinitrotoluene	165	5.450	5.450	(0.967)	570100	5.00000	5.0815
79	Acenaphthylene	152	5.535	5.535	(0.982)	3433652	5.00000	4.9833
80	1,2-Dinitrobenzene	168	5.498	5.498	(0.975)	279398	5.00000	5.0447
81	3-Nitroaniline	138	5.584	5.584	(0.991)	647394	5.00000	4.9680
82	Acenaphthene	153	5.658	5.658	(1.004)	2224082	5.00000	4.8688
83	2,4-Dinitrophenol	184	5.658	5.658	(1.004)	935941	10.0000	10.330
85	4-Nitrophenol	109	5.685	5.685	(1.009)	301601	5.00000	4.9740(H)
86	Dibenzofuran	168	5.781	5.781	(1.026)	2931850	5.00000	4.8980
87	2,4-Dinitrotoluene	165	5.749	5.749	(1.020)	775794	5.00000	5.0247
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.035)	574685	5.00000	5.0546
93	Diethylphthalate	149	5.904	5.904	(1.047)	2444403	5.00000	4.8246
94	Fluorene	166	6.033	6.033	(1.070)	2524660	5.00000	4.9060
95	4-Chlorophenyl-phenylether	204	6.011	6.011	(1.066)	1102589	5.00000	4.8453
96	4-Nitroaniline	138	6.027	6.027	(1.069)	704484	5.00000	5.2529
98	4,6-Dinitro-2-methylphenol	198	6.049	6.049	(0.900)	475916	5.00000	4.9542
99	N-Nitrosodiphenylamine	169	6.092	6.092	(0.907)	1831433	5.00000	4.9982
100	1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	2714575	5.00000	4.9474
106	4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	649277	5.00000	5.0170
107	Hexachlorobenzene	284	6.439	6.439	(0.959)	626199	5.00000	4.9915
212	Atrazine	200	6.461	6.461	(0.962)	429534	5.00000	5.1960
111	Pentachlorophenol	266	6.573	6.573	(0.979)	926091	10.0000	9.8774
115	Phenanthrene	178	6.739	6.739	(1.003)	3589199	5.00000	5.0615
116	Anthracene	178	6.771	6.771	(1.008)	3635394	5.00000	5.0901
119	Carbazole	167	6.878	6.878	(1.024)	3434756	5.00000	5.0286
120	Di-n-Butylphthalate	149	7.087	7.087	(1.055)	4229826	5.00000	5.3894
123	Fluoranthene	202	7.605	7.605	(1.132)	3622998	5.00000	5.0440
124	Benzidine	184	7.675	7.675	(0.885)	2266563	5.00000	5.1681
125	Pyrene	202	7.776	7.776	(0.897)	3838872	5.00000	4.9794
131	Butylbenzylphthalate	149	8.188	8.188	(0.944)	1860943	5.00000	4.9153
133	3,3'-Dimethoxybenzidine	244	8.579	8.579	(0.990)	800955	5.00000	5.0083
135	3,3'-Dichlorobenzidine	252	8.616	8.616	(0.994)	1400857	5.00000	4.9811
136	Benzo(a)Anthracene	228	8.664	8.664	(0.999)	3662677	5.00000	4.7383

137 Chrysene	228	8.691	8.691 (1.002)	3523297	5.00000	4.9027
138 4,4'-Methylene bis(o-chloroan	231	8.611	8.611 (0.993)	726195	5.00000	4.9927

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.595	8.595	(0.991)	2609534	5.00000	4.8439
140 Di-n-octylphthalate	149	9.114	9.114	(0.907)	4412461	5.00000	5.1875
141 Benzo(b)fluoranthene	252	9.622	9.622	(0.958)	3506213	5.00000	4.9131
142 Benzo(k)fluoranthene	252	9.649	9.649	(0.961)	3908949	5.00000	4.9568
146 Benzo(a)pyrene	252	9.985	9.985	(0.994)	3406749	5.00000	4.9966
149 Indeno(1,2,3-cd)pyrene	276	11.531	11.531	(1.148)	3833647	5.00000	5.0444
150 Dibenz(a,h)anthracene	278	11.531	11.531	(1.148)	3231582	5.00000	5.1022
151 Benzo(g,h,i)perylene	276	11.981	11.981	(1.193)	3134515	5.00000	5.0476
198 1,4-Dioxane	88	1.684	1.684	(0.485)	415753	5.00000	4.6119
$ 154 Nitrobenzene-d5	82	3.851	3.851	(0.881)	1333252	5.00000	4.8219
$ 155 2-Fluorobiphenyl	172	5.124	5.124	(0.909)	2341151	5.00000	4.9652
$ 156 Terphenyl-d14	244	7.857	7.857	(0.906)	2397033	5.00000	4.9353
$ 157 Phenol-d5	99	3.187	3.187	(0.917)	1408774	5.00000	5.0496
$ 158 2-Fluorophenol	112	2.610	2.610	(0.751)	1007141	5.00000	4.7244
$ 159 2,4,6-Tribromophenol	330	6.209	6.209	(1.102)	289851	5.00000	4.9822
$ 186 2-Chlorophenol-d4	132	3.321	3.321	(0.955)	1079191	5.00000	4.9255
$ 187 1,2-Dichlorobenzene-d4	152	3.583	3.583	(1.031)	728820	5.00000	4.8609
M 195 Cresols, total	100				2143764	5.00000	
101 Diphenylamine	169	6.092	6.092	(0.907)	1831433	5.00000	4.9982

QC Flag Legend

H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SMH0301.D
Lab Smp Id: l6
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 17:59
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	372908	186454	745816	372908	0.00
2 Naphthalene-d8	1563613	781807	3127226	1563613	0.00
3 Acenaphthene-d10	831448	415724	1662896	831448	0.00
4 Phenanthrene-d10	1312591	656296	2625182	1312591	0.00
5 Chrysene-d12	1565944	782972	3131888	1565944	0.00
6 Perylene-d12	1416519	708260	2833038	1416519	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	0.00
2 Naphthalene-d8	4.37	3.87	4.87	4.37	0.00
3 Acenaphthene-d10	5.64	5.14	6.14	5.64	0.00
4 Phenanthrene-d10	6.72	6.22	7.22	6.72	0.00
5 Chrysene-d12	8.67	8.17	9.17	8.67	0.00
6 Perylene-d12	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SMH0301.D

Page 1

Date : 01-MAR-2010 17:59

Client ID:

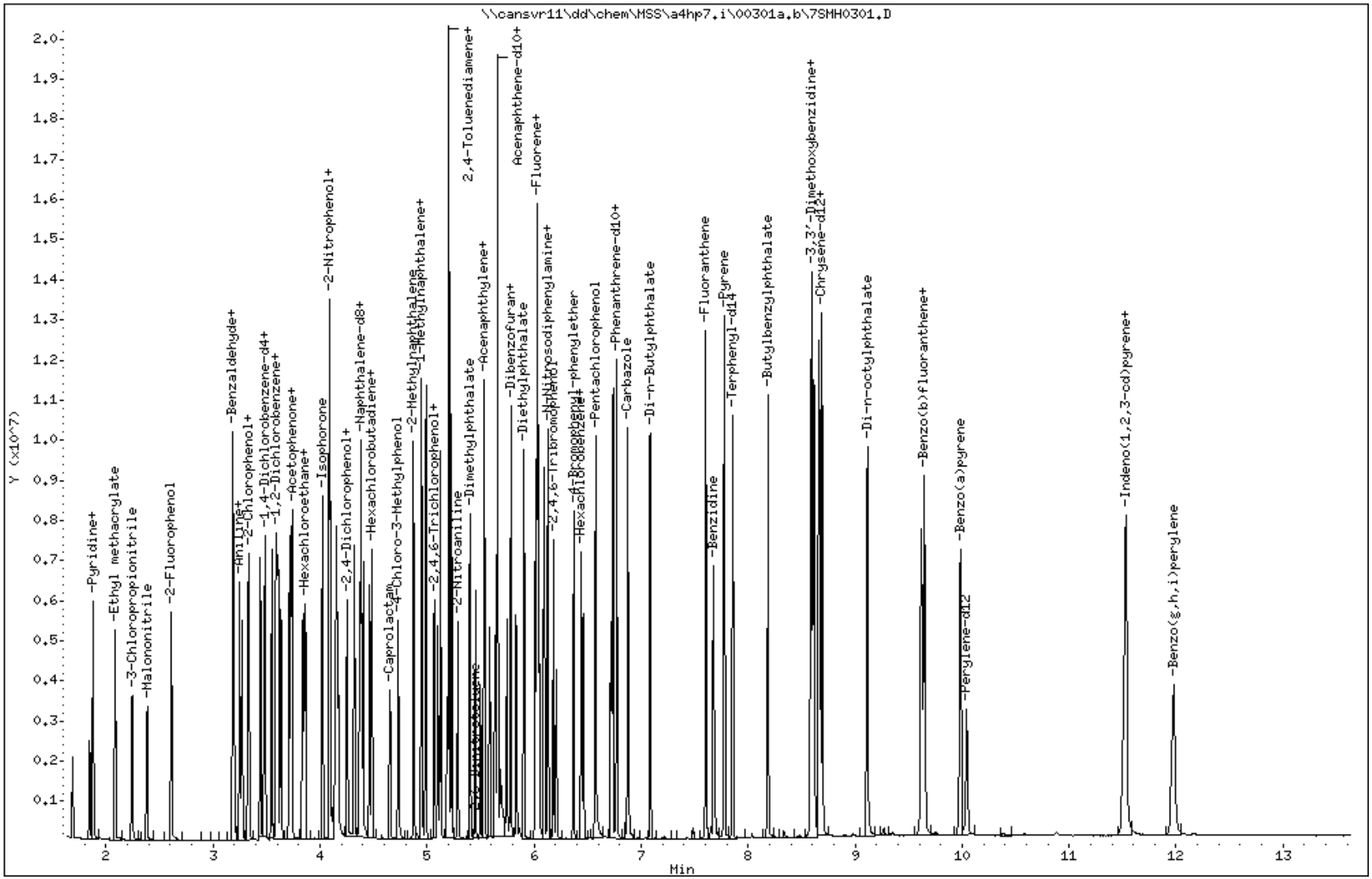
Instrument: a4hp7.i

Sample Info: 16,00301a.b,8270C-625,1-827042d.sub,1,,6

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



North Canton

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SML0301.D
Lab Smp Id: l3
Inj Date : 01-MAR-2010 16:02
Operator : 001710   Inst ID: a4hp7.i
Smp Info : l3,00301a.b,8270C-625,1-827042d.sub,1,,3
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:09 a4hp7.i Quant Type: ISTD
Cal Date : 01-MAR-2010 20:15   Cal File: 7AM0301.D
Als bottle: 4   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.476	3.476	(1.000)	329744	2.00000	
*	2 Naphthalene-d8	136	4.364	4.364	(1.000)	1350799	2.00000	
*	3 Acenaphthene-d10	164	5.632	5.632	(1.000)	696034	2.00000	
*	4 Phenanthrene-d10	188	6.718	6.718	(1.000)	1111400	2.00000	
*	5 Chrysene-d12	240	8.670	8.670	(1.000)	1266655	2.00000	
*	6 Perylene-d12	264	10.050	10.050	(1.000)	1163422	2.00000	
	9 Pyridine	79	1.882	1.882	(0.542)	102617	0.50000	0.48439
	10 N-Nitrosodimethylamine	74	1.845	1.845	(0.531)	60220	0.50000	0.49266
	11 Ethyl methacrylate	69	2.086	2.086	(0.600)	90232	0.50000	0.48782
	12 3-Chloropropionitrile	54	2.241	2.241	(0.645)	72200	0.50000	0.50062
	13 Malononitrile	66	2.380	2.380	(0.685)	137230	0.50000	0.50283
	209 Benzaldehyde	77	3.182	3.182	(0.915)	79204	0.50000	0.47034
	21 Aniline	93	3.246	3.246	(0.934)	167243	0.50000	0.49602
	22 Phenol	94	3.193	3.193	(0.918)	124561	0.50000	0.46910
	23 bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	112875	0.50000	0.48161
	24 2-Chlorophenol	128	3.332	3.332	(0.958)	99451	0.50000	0.47016
	26 1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	107105	0.50000	0.48655
	27 1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	106528	0.50000	0.49244
	28 1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	100774	0.50000	0.47897
	29 Benzyl Alcohol	108	3.546	3.546	(1.020)	64342	0.50000	0.46302
	30 2-Methylphenol	108	3.605	3.605	(1.037)	81763	0.50000	0.44342
	31 bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	186617	0.50000	0.50340
	37 Acetophenone	105	3.733	3.733	(1.074)	141363	0.50000	0.48249
	32 N-Nitroso-di-n-propylamine	70	3.722	3.722	(1.071)	77840	0.50000	0.48348
	192 4-Methylphenol	108	3.706	3.706	(1.066)	71664	0.50000	0.49618
	34 Hexachloroethane	117	3.835	3.835	(1.103)	41432	0.50000	0.48147
	35 Nitrobenzene	77	3.861	3.861	(0.885)	109206	0.50000	0.49056
	41 Isophorone	82	4.017	4.017	(0.920)	197983	0.50000	0.47717
	42 2-Nitrophenol	139	4.086	4.086	(0.936)	49936	0.50000	0.45111
	43 2,4-Dimethylphenol	107	4.086	4.086	(0.936)	71804	0.50000	0.48903
	44 bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.951)	116583	0.50000	0.47355

46	2,4-Toluenediamene	121	5.188	5.188 (1.189)	52734	0.50000	0.57863
47	1,3,5-Trichlorobenzene	180	4.097	4.097 (0.939)	83120	0.50000	0.48027

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.263	4.263	(0.977)	40052	0.50000	0.51149
49	Benzoic Acid	122	4.118	4.118	(0.944)	48704	1.00000	1.3790(Q)
50	1,2,4-Trichlorobenzene	180	4.316	4.316	(0.989)	83661	0.50000	0.49416
51	Naphthalene	128	4.380	4.380	(1.004)	304200	0.50000	0.50642
52	4-Chloroaniline	127	4.402	4.402	(1.009)	103712	0.50000	0.46697
56	Hexachlorobutadiene	225	4.461	4.461	(1.022)	41925	0.50000	0.47656
210	Caprolactam	113	4.626	4.626	(1.060)	28952	0.50000	0.42214
57	1,2,3-Trichlorobenzene	180	4.482	4.482	(1.027)	73214	0.50000	0.46651
59	4-Chloro-3-Methylphenol	107	4.733	4.733	(1.085)	75109	0.50000	0.43235
62	2-Methylnaphthalene	142	4.872	4.872	(1.116)	153166	0.50000	0.47158
63	1-Methylnaphthalene	142	4.947	4.947	(1.134)	180287	0.50000	0.47478
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.886)	44266	0.50000	0.44908
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.900)	43613	0.50000	0.43664
67	2,4,5-Trichlorophenol	196	5.108	5.108	(0.907)	49312	0.50000	0.44051
211	1,1'-Biphenyl	154	5.204	5.204	(0.924)	231945	0.50000	0.48042
68	1,2,3,5-Tetrachlorobenzene	216	4.985	4.985	(0.885)	77547	0.50000	0.48842
70	2-Chloronaphthalene	162	5.225	5.225	(0.928)	167879	0.50000	0.48130
73	2-Nitroaniline	65	5.284	5.284	(0.938)	57700	0.50000	0.47430
74	1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.924)	70524	0.50000	0.49043
76	Dimethylphthalate	163	5.397	5.397	(0.958)	197031	0.50000	0.48589
78	2,6-Dinitrotoluene	165	5.450	5.450	(0.968)	40956	0.50000	0.43608
79	Acenaphthylene	152	5.536	5.536	(0.983)	283735	0.50000	0.49190
80	1,2-Dinitrobenzene	168	5.498	5.498	(0.976)	20118	0.50000	0.43391
81	3-Nitroaniline	138	5.584	5.584	(0.991)	50591	0.50000	0.46375
82	Acenaphthene	153	5.659	5.659	(1.005)	186551	0.50000	0.48783
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.782	5.782	(1.027)	248013	0.50000	0.49494
87	2,4-Dinitrotoluene	165	5.744	5.744	(1.020)	58672	0.50000	0.45394
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.036)	45117	0.50000	0.47403
93	Diethylphthalate	149	5.905	5.905	(1.048)	208971	0.50000	0.49270
94	Fluorene	166	6.028	6.028	(1.070)	215849	0.50000	0.50105
95	4-Chlorophenyl-phenylether	204	6.012	6.012	(1.067)	92109	0.50000	0.48352
96	4-Nitroaniline	138	6.033	6.033	(1.071)	46773	0.50000	0.41661
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	6.092	6.092	(0.907)	152151	0.50000	0.49041
100	1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	237139	0.50000	0.51043
106	4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	51966	0.50000	0.47424
107	Hexachlorobenzene	284	6.440	6.440	(0.959)	51290	0.50000	0.48285
212	Atrazine	200	6.456	6.456	(0.961)	35471	0.50000	0.50676
111	Pentachlorophenol	266	6.579	6.579	(0.979)	60150	1.00000	1.0867
115	Phenanthrene	178	6.734	6.734	(1.002)	302002	0.50000	0.50298
116	Anthracene	178	6.771	6.771	(1.008)	310678	0.50000	0.51374
119	Carbazole	167	6.878	6.878	(1.024)	282889	0.50000	0.48914
120	Di-n-Butylphthalate	149	7.087	7.087	(1.055)	345914	0.50000	0.52053
123	Fluoranthene	202	7.606	7.606	(1.132)	297989	0.50000	0.48997
124	Benzidine	184	7.680	7.680	(0.886)	158690	0.50000	0.44733
125	Pyrene	202	7.777	7.777	(0.897)	324209	0.50000	0.51989
131	Butylbenzylphthalate	149	8.189	8.189	(0.944)	149145	0.50000	0.48702
133	3,3'-Dimethoxybenzidine	244	8.584	8.584	(0.990)	59881	0.50000	0.46291
135	3,3'-Dichlorobenzidine	252	8.622	8.622	(0.994)	106423	0.50000	0.46783
136	Benzo(a)Anthracene	228	8.665	8.665	(0.999)	310761	0.50000	0.49701

137 Chrysene	228	8.691	8.691 (1.002)	296247	0.50000	0.50963
138 4,4'-Methylene bis(o-chloroan	231	8.611	8.611 (0.993)	54897	0.50000	0.46660

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.595	8.595	(0.991)	218889	0.50000	0.50232
140 Di-n-octylphthalate	149	9.114	9.114	(0.907)	333443	0.50000	0.47729
141 Benzo(b)fluoranthene	252	9.617	9.617	(0.957)	272892	0.50000	0.46558
142 Benzo(k)fluoranthene	252	9.643	9.643	(0.960)	318335	0.50000	0.49148
146 Benzo(a)pyrene	252	9.986	9.986	(0.994)	262194	0.50000	0.46821
149 Indeno(1,2,3-cd)pyrene	276	11.515	11.515	(1.146)	300283	0.50000	0.48108
150 Dibenz(a,h)anthracene	278	11.521	11.521	(1.146)	240220	0.50000	0.46179
151 Benzo(g,h,i)perylene	276	11.965	11.965	(1.191)	236772	0.50000	0.46422
198 1,4-Dioxane	88	1.690	1.690	(0.486)	39269	0.50000	0.49263
$ 154 Nitrobenzene-d5	82	3.845	3.845	(0.881)	117678	0.50000	0.49265
$ 155 2-Fluorobiphenyl	172	5.124	5.124	(0.910)	191088	0.50000	0.48411
$ 156 Terphenyl-d14	244	7.857	7.857	(0.906)	190458	0.50000	0.48479
$ 157 Phenol-d5	99	3.182	3.182	(0.915)	117718	0.50000	0.47718
$ 158 2-Fluorophenol	112	2.610	2.610	(0.751)	89805	0.50000	0.47641
$ 159 2,4,6-Tribromophenol	330	6.210	6.210	(1.103)	22347	0.50000	0.45885
$ 186 2-Chlorophenol-d4	132	3.321	3.321	(0.955)	91026	0.50000	0.46983
$ 187 1,2-Dichlorobenzene-d4	152	3.583	3.583	(1.031)	64095	0.50000	0.48345
M 195 Cresols, total	100				153427	0.50000	
101 Diphenylamine	169	6.092	6.092	(0.907)	152151	0.50000	0.49041

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SML0301.D
Lab Smp Id: l3
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 17:59
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	372908	186454	745816	329744	-11.57
2 Naphthalene-d8	1563613	781807	3127226	1350799	-13.61
3 Acenaphthene-d10	831448	415724	1662896	696034	-16.29
4 Phenanthrene-d10	1312591	656296	2625182	1111400	-15.33
5 Chrysene-d12	1565944	782972	3131888	1266655	-19.11
6 Perylene-d12	1416519	708260	2833038	1163422	-17.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	0.00
2 Naphthalene-d8	4.37	3.87	4.87	4.36	-0.12
3 Acenaphthene-d10	5.64	5.14	6.14	5.63	-0.09
4 Phenanthrene-d10	6.72	6.22	7.22	6.72	0.00
5 Chrysene-d12	8.67	8.17	9.17	8.67	0.00
6 Perylene-d12	10.04	9.54	10.54	10.05	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SML0301.D

Page 1

Date : 01-MAR-2010 16:02

Client ID:

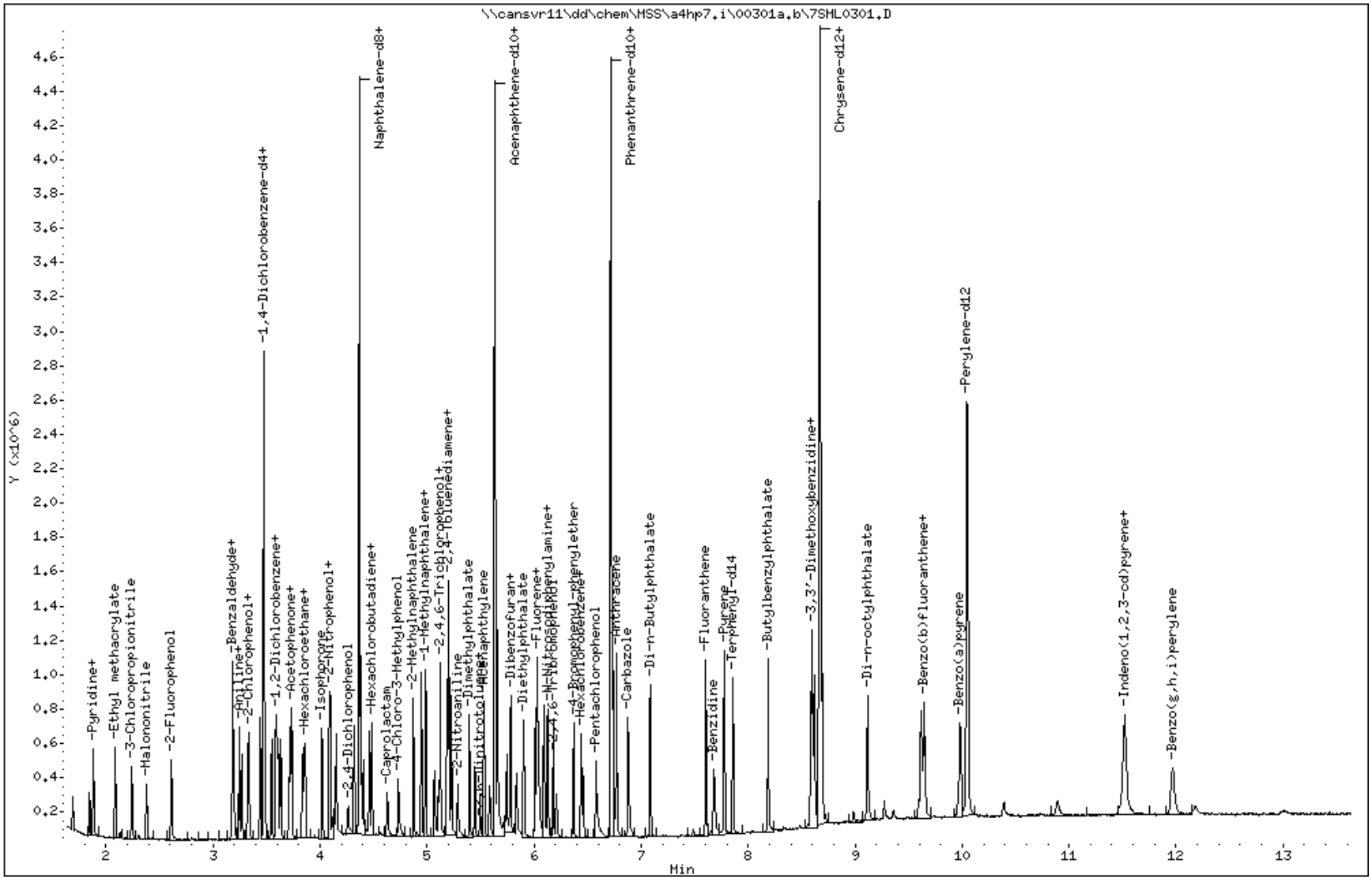
Instrument: a4hp7.i

Sample Info: 13,00301a.b,8270C-625,1-827042d.sub,1,,3

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SMM0301.D
Lab Smp Id: l5
Inj Date : 01-MAR-2010 15:23
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l5,00301a.b,8270C-625,1-827042d.sub,1,,5
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:09 a4hp7.i Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.476	3.476	(1.000)	312499	2.00000	
*	2 Naphthalene-d8	136	4.370	4.370	(1.000)	1310098	2.00000	
*	3 Acenaphthene-d10	164	5.637	5.637	(1.000)	688933	2.00000	
*	4 Phenanthrene-d10	188	6.718	6.718	(1.000)	1082662	2.00000	
*	5 Chrysene-d12	240	8.670	8.670	(1.000)	1241492	2.00000	
*	6 Perylene-d12	264	10.044	10.044	(1.000)	1131670	2.00000	
	9 Pyridine	79	1.882	1.882	(0.542)	501687	2.50000	2.4988
	10 N-Nitrosodimethylamine	74	1.850	1.850	(0.532)	296388	2.50000	2.5586
	11 Ethyl methacrylate	69	2.086	2.086	(0.600)	448044	2.50000	2.5559
	12 3-Chloropropionitrile	54	2.246	2.246	(0.646)	348742	2.50000	2.5515
	13 Malononitrile	66	2.380	2.380	(0.685)	659012	2.50000	2.5480
	209 Benzaldehyde	77	3.182	3.182	(0.915)	362667	2.50000	2.6000
	21 Aniline	93	3.246	3.246	(0.934)	807370	2.50000	2.5267
	22 Phenol	94	3.193	3.193	(0.918)	644022	2.50000	2.5592
	23 bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	546375	2.50000	2.4599
	24 2-Chlorophenol	128	3.332	3.332	(0.958)	513813	2.50000	2.5632
	26 1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	530290	2.50000	2.5419
	27 1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	514225	2.50000	2.5082
	28 1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	501735	2.50000	2.5163
	29 Benzyl Alcohol	108	3.546	3.546	(1.020)	328513	2.50000	2.4945
	30 2-Methylphenol	108	3.610	3.610	(1.038)	444775	2.50000	2.5452
	31 bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	885306	2.50000	2.5199
	37 Acetophenone	105	3.738	3.738	(1.075)	696369	2.50000	2.5080
	32 N-Nitroso-di-n-propylamine	70	3.722	3.722	(1.071)	388859	2.50000	2.5485
	192 4-Methylphenol	108	3.706	3.706	(1.066)	454381	2.50000	2.5874
	34 Hexachloroethane	117	3.835	3.835	(1.103)	203287	2.50000	2.4927
	35 Nitrobenzene	77	3.861	3.861	(0.884)	544144	2.50000	2.5203
	41 Isophorone	82	4.022	4.022	(0.920)	1004686	2.50000	2.4967
	42 2-Nitrophenol	139	4.086	4.086	(0.935)	273623	2.50000	2.5486
	43 2,4-Dimethylphenol	107	4.086	4.086	(0.935)	459715	2.50000	2.5414
	44 bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.950)	594620	2.50000	2.4903

46	2,4-Toluenediamene	121	5.182	5.182 (1.186)	192620	2.50000	2.1792
47	1,3,5-Trichlorobenzene	180	4.097	4.097 (0.938)	414628	2.50000	2.4702

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.252	4.252	(0.973)	303525	2.50000	2.3724
49	Benzoic Acid	122	4.145	4.145	(0.949)	555693	5.00000	4.7512(Q)
50	1,2,4-Trichlorobenzene	180	4.321	4.321	(0.989)	402036	2.50000	2.4485
51	Naphthalene	128	4.380	4.380	(1.002)	1492387	2.50000	2.5617
52	4-Chloroaniline	127	4.402	4.402	(1.007)	543446	2.50000	2.5229
56	Hexachlorobutadiene	225	4.460	4.460	(1.021)	214002	2.50000	2.5081
210	Caprolactam	113	4.637	4.637	(1.061)	172976	2.50000	2.6005
57	1,2,3-Trichlorobenzene	180	4.482	4.482	(1.026)	379330	2.50000	2.4921
59	4-Chloro-3-Methylphenol	107	4.728	4.728	(1.082)	430410	2.50000	2.5546
62	2-Methylnaphthalene	142	4.872	4.872	(1.115)	816105	2.50000	2.5908
63	1-Methylnaphthalene	142	4.947	4.947	(1.132)	939984	2.50000	2.5523
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.885)	250573	2.50000	2.5682
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.899)	253083	2.50000	2.5599
67	2,4,5-Trichlorophenol	196	5.097	5.097	(0.904)	276844	2.50000	2.4986
211	1,1'-Biphenyl	154	5.204	5.204	(0.923)	1200384	2.50000	2.5119
68	1,2,3,5-Tetrachlorobenzene	216	4.985	4.985	(0.884)	389694	2.50000	2.4798
70	2-Chloronaphthalene	162	5.231	5.231	(0.928)	870104	2.50000	2.5202
73	2-Nitroaniline	65	5.284	5.284	(0.937)	310991	2.50000	2.5827
74	1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.923)	352023	2.50000	2.4732
76	Dimethylphthalate	163	5.396	5.396	(0.957)	988150	2.50000	2.4620
78	2,6-Dinitrotoluene	165	5.450	5.450	(0.967)	230252	2.50000	2.4769
79	Acenaphthylene	152	5.536	5.536	(0.982)	1450107	2.50000	2.5399
80	1,2-Dinitrobenzene	168	5.498	5.498	(0.975)	112228	2.50000	2.4455
81	3-Nitroaniline	138	5.584	5.584	(0.991)	269365	2.50000	2.4946
82	Acenaphthene	153	5.659	5.659	(1.004)	943306	2.50000	2.4922
83	2,4-Dinitrophenol	184	5.653	5.653	(1.003)	329756	5.00000	4.9011(Q)
85	4-Nitrophenol	109	5.691	5.691	(1.009)	117871	2.50000	2.5370(Q)
86	Dibenzofuran	168	5.782	5.782	(1.026)	1235274	2.50000	2.4906
87	2,4-Dinitrotoluene	165	5.744	5.744	(1.019)	310438	2.50000	2.4266
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.035)	221936	2.50000	2.3558
93	Diethylphthalate	149	5.905	5.905	(1.047)	1023111	2.50000	2.4371
94	Fluorene	166	6.033	6.033	(1.070)	1060672	2.50000	2.4875
95	4-Chlorophenyl-phenylether	204	6.012	6.012	(1.066)	455634	2.50000	2.4165
96	4-Nitroaniline	138	6.028	6.028	(1.069)	288535	2.50000	2.5965
98	4,6-Dinitro-2-methylphenol	198	6.044	6.044	(0.900)	189402	2.50000	2.3904
99	N-Nitrosodiphenylamine	169	6.092	6.092	(0.907)	748674	2.50000	2.4772
100	1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	1149742	2.50000	2.5405
106	4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	258434	2.50000	2.4210
107	Hexachlorobenzene	284	6.439	6.439	(0.959)	250647	2.50000	2.4222
212	Atrazine	200	6.461	6.461	(0.962)	170478	2.50000	2.5002
111	Pentachlorophenol	266	6.573	6.573	(0.979)	347837	5.00000	4.7326
115	Phenanthrene	178	6.734	6.734	(1.002)	1482095	2.50000	2.5339
116	Anthracene	178	6.771	6.771	(1.008)	1504561	2.50000	2.5540
119	Carbazole	167	6.878	6.878	(1.024)	1436150	2.50000	2.5491
120	Di-n-Butylphthalate	149	7.087	7.087	(1.055)	1768323	2.50000	2.7316
123	Fluoranthene	202	7.605	7.605	(1.132)	1494324	2.50000	2.5223
124	Benzidine	184	7.680	7.680	(0.886)	929502	2.50000	2.6733
125	Pyrene	202	7.777	7.777	(0.897)	1589016	2.50000	2.5997
131	Butylbenzylphthalate	149	8.188	8.188	(0.944)	769430	2.50000	2.5634
133	3,3'-Dimethoxybenzidine	244	8.579	8.579	(0.990)	353995	2.50000	2.7920
135	3,3'-Dichlorobenzidine	252	8.616	8.616	(0.994)	559941	2.50000	2.5114
136	Benzo(a)Anthracene	228	8.664	8.664	(0.999)	1516549	2.50000	2.4746

137 Chrysene	228	8.691	8.691 (1.002)	1467905	2.50000	2.5764
138 4,4'-Methylene bis(o-chloroan	231	8.611	8.611 (0.993)	293654	2.50000	2.5465

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.595	8.595	(0.991)	1100292	2.50000	2.5762
140	Di-n-octylphthalate	149	9.114	9.114	(0.907)	1837738	2.50000	2.7044
141	Benzo(b)fluoranthene	252	9.622	9.622	(0.958)	1433888	2.50000	2.5150
142	Benzo(k)fluoranthene	252	9.649	9.649	(0.961)	1582296	2.50000	2.5115
146	Benzo(a)pyrene	252	9.986	9.986	(0.994)	1367573	2.50000	2.5106
149	Indeno(1,2,3-cd)pyrene	276	11.521	11.521	(1.147)	1564644	2.50000	2.5770
150	Dibenz(a,h)anthracene	278	11.526	11.526	(1.147)	1322261	2.50000	2.6132
151	Benzo(g,h,i)perylene	276	11.970	11.970	(1.192)	1282803	2.50000	2.5857
198	1,4-Dioxane	88	1.690	1.690	(0.486)	191390	2.50000	2.5335
$ 154	Nitrobenzene-d5	82	3.851	3.851	(0.881)	588548	2.50000	2.5405
$ 155	2-Fluorobiphenyl	172	5.124	5.124	(0.909)	990182	2.50000	2.5344
$ 156	Terphenyl-d14	244	7.857	7.857	(0.906)	961539	2.50000	2.4971
$ 157	Phenol-d5	99	3.182	3.182	(0.915)	606443	2.50000	2.5939
$ 158	2-Fluorophenol	112	2.610	2.610	(0.751)	461999	2.50000	2.5861
$ 159	2,4,6-Tribromophenol	330	6.204	6.204	(1.101)	115471	2.50000	2.3954
$ 186	2-Chlorophenol-d4	132	3.321	3.321	(0.955)	469177	2.50000	2.5553
$ 187	1,2-Dichlorobenzene-d4	152	3.589	3.589	(1.032)	312831	2.50000	2.4898
M 195	Cresols, total	100				899156	2.50000	
101	Diphenylamine	169	6.092	6.092	(0.907)	748674	2.50000	2.4772

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SMM0301.D
Lab Smp Id: l5
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 17:59
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	372908	186454	745816	312499	-16.20
2 Naphthalene-d8	1563613	781807	3127226	1310098	-16.21
3 Acenaphthene-d10	831448	415724	1662896	688933	-17.14
4 Phenanthrene-d10	1312591	656296	2625182	1082662	-17.52
5 Chrysene-d12	1565944	782972	3131888	1241492	-20.72
6 Perylene-d12	1416519	708260	2833038	1131670	-20.11

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	0.00
2 Naphthalene-d8	4.37	3.87	4.87	4.37	0.00
3 Acenaphthene-d10	5.64	5.14	6.14	5.64	0.00
4 Phenanthrene-d10	6.72	6.22	7.22	6.72	0.00
5 Chrysene-d12	8.67	8.17	9.17	8.67	0.00
6 Perylene-d12	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SMM0301.D

Page 1

Date : 01-MAR-2010 15:23

Client ID:

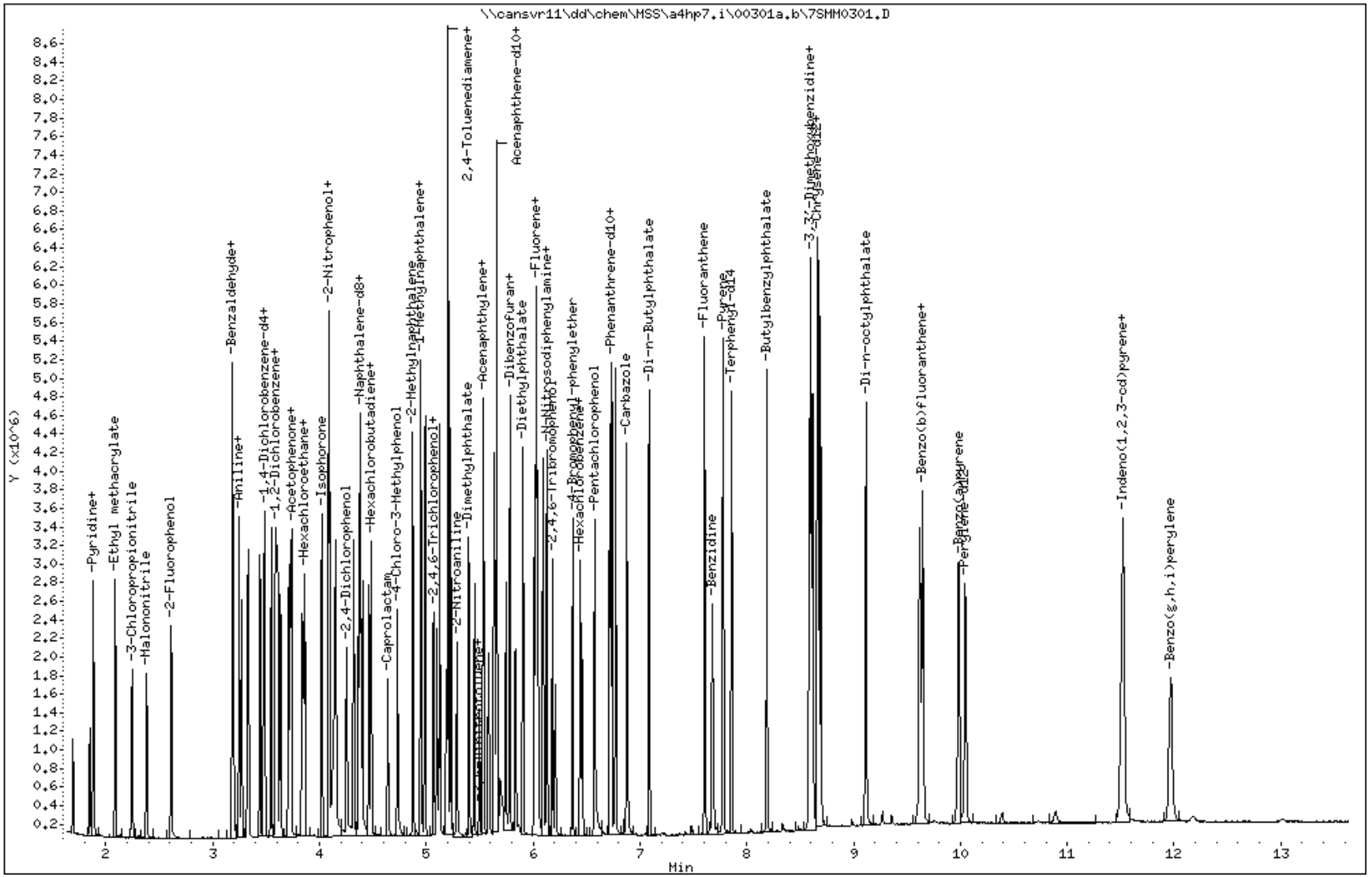
Instrument: a4hp7.i

Sample Info: 15,00301a.b,8270C-625,1-827042d.sub,1,,5

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 01-MAR-2010 18:18
Lab File ID: ICVTCL.D Init. Cal. Date(s): 01-MAR-2010 01-MAR-2010
Analysis Type: Init. Cal. Times: 15:23 20:53
Lab Sample ID: icvtcl Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
9 Pyridine	1.28492	1.28936	1.28936	0.010	-0.34608	50.00000	Averaged
10 N-Nitrosodimethylamine	0.74139	0.73859	0.73859	0.010	0.37751	50.00000	Averaged
11 Ethyl methacrylate	1.12190	1.12084	1.12084	0.010	0.09492	50.00000	Averaged
12 3-Chloropropionitrile	0.87475	0.87319	0.87319	0.010	0.17868	50.00000	Averaged
13 Malononitrile	1.65531	1.67442	1.67442	0.010	-1.15435	50.00000	Averaged
209 Benzaldehyde	5.00000	5.46946	0.83231	0.010	-9.38915	0.000e+000	Quadratic
21 Aniline	2.04502	2.16269	2.16269	0.010	-5.75394	50.00000	Averaged
22 Phenol	1.61053	1.63412	1.63412	0.010	-1.46469	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.42153	1.33311	1.33311	0.010	6.22003	50.00000	Averaged
24 2-Chlorophenol	1.28296	1.29916	1.29916	0.010	-1.26270	50.00000	Averaged
26 1,3-Dichlorobenzene	1.33517	1.31721	1.31721	0.010	1.34530	50.00000	Averaged
27 1,4-Dichlorobenzene	1.31210	1.30591	1.30591	0.010	0.47187	20.00000	Averaged
28 1,2-Dichlorobenzene	1.27614	1.25883	1.25883	0.010	1.35619	50.00000	Averaged
29 Benzyl Alcohol	0.84284	0.82836	0.82836	0.010	1.71815	50.00000	Averaged
30 2-Methylphenol	1.11839	1.13863	1.13863	0.010	-1.80935	50.00000	Averaged
31 bis(2-Chloroisopropyl)ether	2.24847	2.18240	2.18240	0.010	2.93842	50.00000	Averaged
37 Acetophenone	1.77704	1.71991	1.71991	0.010	3.21521	50.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.97652	0.97270	0.97270	0.050	0.39140	50.00000	Averaged
192 4-Methylphenol	5.00000	4.97456	1.17704	0.010	0.50888	0.000e+000	Quadratic
34 Hexachloroethane	0.52193	0.51236	0.51236	0.010	1.83503	50.00000	Averaged
35 Nitrobenzene	0.32960	0.32496	0.32496	0.010	1.40804	50.00000	Averaged
41 Isophorone	0.61432	0.61518	0.61518	0.010	-0.13942	50.00000	Averaged
42 2-Nitrophenol	0.16390	0.16950	0.16950	0.010	-3.41650	20.00000	Averaged
43 2,4-Dimethylphenol	5.00000	5.01217	0.29027	0.010	-0.24345	0.000e+000	Quadratic
44 bis(2-Chloroethoxy)methane	0.36451	0.36428	0.36428	0.010	0.06164	50.00000	Averaged
46 2,4-Toluenediamene	0.13494	0.15559	0.15559	0.010	-15.30356	50.00000	Averaged
47 1,3,5-Trichlorobenzene	0.25625	0.25416	0.25416	0.010	0.81335	50.00000	Averaged
48 2,4-Dichlorophenol	5.00000	4.95982	0.20984	0.010	0.80355	0.000e+000	Quadratic
49 Benzoic Acid	10.00000	9.29644	0.19621	0.010	7.03563	0.000e+000	Quadratic
50 1,2,4-Trichlorobenzene	0.25067	0.24911	0.24911	0.010	0.62161	50.00000	Averaged
51 Naphthalene	0.88937	0.90353	0.90353	0.010	-1.59251	50.00000	Averaged
52 4-Chloroaniline	0.32884	0.36538	0.36538	0.010	-11.11215	50.00000	Averaged
56 Hexachlorobutadiene	0.13026	0.13277	0.13277	0.010	-1.93178	20.00000	Averaged
210 Caprolactam	0.10154	0.10601	0.10601	0.010	-4.39342	50.00000	Averaged
57 1,2,3-Trichlorobenzene	0.23236	0.23474	0.23474	0.010	-1.02056	50.00000	Averaged
59 4-Chloro-3-Methylphenol	0.25721	0.26863	0.26863	0.010	-4.43878	20.00000	Averaged
62 2-Methylnaphthalene	0.48089	0.49554	0.49554	0.010	-3.04622	50.00000	Averaged
63 1-Methylnaphthalene	0.56223	0.56395	0.56395	0.010	-0.30612	50.00000	Averaged
64 Hexachlorocyclopentadiene	0.28324	0.30244	0.30244	0.050	-6.77908	50.00000	Averaged
66 2,4,6-Trichlorophenol	0.28700	0.30537	0.30537	0.010	-6.39830	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.32166	0.33459	0.33459	0.010	-4.02051	50.00000	Averaged
211 1,1'-Biphenyl	1.38729	1.39583	1.39583	0.010	-0.61566	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 01-MAR-2010 18:18
Lab File ID: ICVTCL.D Init. Cal. Date(s): 01-MAR-2010 01-MAR-2010
Analysis Type: Init. Cal. Times: 15:23 20:53
Lab Sample ID: icvtcl Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
68 1,2,3,5-Tetrachlorobenzene	0.45621	0.45787	0.45787	0.010	-0.36313	50.00000	Averaged
70 2-Chloronaphthalene	1.00226	1.01655	1.01655	0.010	-1.42510	50.00000	Averaged
73 2-Nitroaniline	0.34956	0.35575	0.35575	0.010	-1.77123	50.00000	Averaged
74 1,2,3,4-Tetrachlorobenzene	0.41320	0.42382	0.42382	0.010	-2.57029	50.00000	Averaged
76 Dimethylphthalate	1.16519	1.16004	1.16004	0.010	0.44177	50.00000	Averaged
78 2,6-Dinitrotoluene	0.26987	0.27897	0.27897	0.010	-3.37359	50.00000	Averaged
79 Acenaphthylene	1.65743	1.71604	1.71604	0.010	-3.53635	50.00000	Averaged
80 1,2-Dinitrobenzene	0.13322	0.13930	0.13930	0.010	-4.56311	50.00000	Averaged
81 3-Nitroaniline	0.31346	0.32012	0.32012	0.010	-2.12364	50.00000	Averaged
82 Acenaphthene	1.09882	1.09253	1.09253	0.010	0.57246	20.00000	Averaged
83 2,4-Dinitrophenol	10.00000	10.67956	0.23379	0.050	-6.79556	0.000e+000	Quadratic
85 4-Nitrophenol	5.00000	5.18266	0.15203	0.050	-3.65326	0.000e+000	Quadratic
86 Dibenzofuran	1.43985	1.45405	1.45405	0.010	-0.98671	50.00000	Averaged
87 2,4-Dinitrotoluene	0.37139	0.38316	0.38316	0.010	-3.16864	50.00000	Averaged
91 2,3,5,6-Tetrachlorophenol	0.27349	0.28491	0.28491	0.010	-4.17793	50.00000	Averaged
93 Diethylphthalate	1.21873	1.19746	1.19746	0.010	1.74500	50.00000	Averaged
94 Fluorene	1.23785	1.24111	1.24111	0.010	-0.26353	50.00000	Averaged
95 4-Chlorophenyl-phenylether	0.54738	0.54431	0.54431	0.010	0.56049	50.00000	Averaged
96 4-Nitroaniline	0.32260	0.35031	0.35031	0.010	-8.58938	50.00000	Averaged
98 4,6-Dinitro-2-methylphenol	0.14637	0.15142	0.15142	0.010	-3.44839	50.00000	Averaged
99 N-Nitrosodiphenylamine	0.55831	0.57835	0.57835	0.010	-3.58949	20.00000	Averaged
100 1,2-Diphenylhydrazine	0.83603	0.84550	0.84550	0.010	-1.13284	50.00000	Averaged
106 4-Bromophenyl-phenylether	0.19719	0.20287	0.20287	0.010	-2.88141	50.00000	Averaged
107 Hexachlorobenzene	0.19115	0.19110	0.19110	0.010	0.02687	50.00000	Averaged
212 Atrazine	0.12596	0.13468	0.13468	0.010	-6.92343	50.00000	Averaged
111 Pentachlorophenol	10.00000	10.20322	0.14603	0.010	-2.03217	0.000e+000	Quadratic
115 Phenanthrene	1.08049	1.11163	1.11163	0.010	-2.88202	50.00000	Averaged
116 Anthracene	1.08823	1.12995	1.12995	0.010	-3.83382	50.00000	Averaged
119 Carbazole	1.04075	1.07921	1.07921	0.010	-3.69558	50.00000	Averaged
120 Di-n-Butylphthalate	1.19585	1.32070	1.32070	0.010	-10.44007	50.00000	Averaged
123 Fluoranthene	1.09443	1.12931	1.12931	0.010	-3.18635	20.00000	Averaged
124 Benzidine	0.56013	0.61236	0.61236	0.010	-9.32509	50.00000	Averaged
125 Pyrene	0.98466	1.00464	1.00464	0.010	-2.02968	50.00000	Averaged
131 Butylbenzylphthalate	0.48354	0.48811	0.48811	0.010	-0.94493	50.00000	Averaged
133 3,3'-Dimethoxybenzidine	0.20425	0.20832	0.20832	0.010	-1.99113	50.00000	Averaged
135 3,3'-Dichlorobenzidine	0.35919	0.36861	0.36861	0.010	-2.62378	50.00000	Averaged
136 Benzo(a)Anthracene	0.98726	0.97911	0.97911	0.010	0.82550	50.00000	Averaged
137 Chrysene	0.91784	0.90574	0.90574	0.010	1.31796	50.00000	Averaged
138 4,4'-Methylene bis(o-chloro	0.18577	0.19413	0.19413	0.010	-4.50387	50.00000	Averaged
139 bis(2-ethylhexyl)Phthalate	0.68805	0.69741	0.69741	0.010	-1.36087	50.00000	Averaged
140 Di-n-octylphthalate	1.20096	1.27878	1.27878	0.010	-6.47959	20.00000	Averaged
141 Benzo(b)fluoranthene	1.00760	1.07326	1.07326	0.010	-6.51638	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 01-MAR-2010 18:18
Lab File ID: ICVTCL.D Init. Cal. Date(s): 01-MAR-2010 01-MAR-2010
Analysis Type: Init. Cal. Times: 15:23 20:53
Lab Sample ID: icvtcl Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
142 Benzo(k)fluoranthene	1.11344	1.10710	1.10710	0.010	0.56908	50.00000	Averaged
146 Benzo(a)pyrene	0.96267	0.99799	0.99799	0.010	-3.66894	20.00000	Averaged
149 Indeno(1,2,3-cd)pyrene	1.07302	1.11523	1.11523	0.010	-3.93417	50.00000	Averaged
150 Dibenz(a,h)anthracene	0.89425	0.94168	0.94168	0.010	-5.30349	50.00000	Averaged
151 Benzo(g,h,i)perylene	0.87679	0.91969	0.91969	0.010	-4.89291	50.00000	Averaged
198 1,4-Dioxane	0.48348	0.47802	0.47802	0.010	1.12982	50.00000	Averaged
$ 154 Nitrobenzene-d5	0.35367	0.35336	0.35336	0.010	0.08613	50.00000	Averaged
$ 155 2-Fluorobiphenyl	1.13420	1.16203	1.16203	0.010	-2.45408	50.00000	Averaged
$ 156 Terphenyl-d14	0.62032	0.63000	0.63000	0.010	-1.56091	50.00000	Averaged
$ 157 Phenol-d5	1.49628	1.54407	1.54407	0.010	-3.19414	50.00000	Averaged
$ 158 2-Fluorophenol	1.14334	1.14186	1.14186	0.010	0.12945	50.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.13994	0.14505	0.14505	0.010	-3.65266	50.00000	Averaged
$ 186 2-Chlorophenol-d4	1.17511	1.18823	1.18823	0.010	-1.11687	50.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	0.80413	0.79513	0.79513	0.010	1.11922	50.00000	Averaged
M 195 Cresols, total	2.21860	2.31567	2.31567	0.010	-4.37534	50.00000	Averaged
101 Diphenylamine	0.55831	0.57835	0.57835	0.010	-3.58949	50.00000	Averaged

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\ICVTCL.D
Lab Smp Id: icvtcl
Inj Date : 01-MAR-2010 18:18
Operator : 001710 Inst ID: a4hp7.i
Smp Info : icvtcl,00301a.b,8270C-625,1-827042d.sub,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:11 a4hp7.i Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 1	1,4-Dichlorobenzene-d4	152	3.476	3.476	(1.000)	398185	2.00000		(Q)
* 2	Naphthalene-d8	136	4.364	4.364	(1.000)	1668551	2.00000		
* 3	Acenaphthene-d10	164	5.637	5.637	(1.000)	877584	2.00000		
* 4	Phenanthrene-d10	188	6.718	6.718	(1.000)	1388767	2.00000		
* 5	Chrysene-d12	240	8.675	8.675	(1.000)	1649880	2.00000		
* 6	Perylene-d12	264	10.045	10.045	(1.000)	1481513	2.00000		
9	Pyridine	79	1.882	1.882	(0.542)	1283512	5.00000	5.0173	
10	N-Nitrosodimethylamine	74	1.850	1.850	(0.532)	735236	5.00000	4.9811	
11	Ethyl methacrylate	69	2.086	2.086	(0.600)	1115751	5.00000	4.9952	
12	3-Chloropropionitrile	54	2.246	2.246	(0.646)	869227	5.00000	4.9911	
13	Malononitrile	66	2.385	2.385	(0.686)	1666822	5.00000	5.0577	
209	Benzaldehyde	77	3.182	3.182	(0.915)	828534	5.00000	5.4694	
21	Aniline	93	3.252	3.252	(0.935)	2152873	5.00000	5.2877	
22	Phenol	94	3.193	3.193	(0.918)	1626705	5.00000	5.0732	
23	bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	1327059	5.00000	4.6890	
24	2-Chlorophenol	128	3.337	3.337	(0.960)	1293262	5.00000	5.0631	
26	1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	1311233	5.00000	4.9327	
27	1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	1299986	5.00000	4.9764	
28	1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	1253117	5.00000	4.9322	
29	Benzyl Alcohol	108	3.546	3.546	(1.020)	824603	5.00000	4.9141	
30	2-Methylphenol	108	3.610	3.610	(1.038)	1133459	5.00000	5.0905	
31	bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	2172500	5.00000	4.8531	
37	Acetophenone	105	3.738	3.738	(1.075)	1712104	5.00000	4.8392	
32	N-Nitroso-di-n-propylamine	70	3.728	3.728	(1.072)	968284	5.00000	4.9804	
192	4-Methylphenol	108	3.712	3.712	(1.068)	1171700	5.00000	4.9746	
34	Hexachloroethane	117	3.835	3.835	(1.103)	510032	5.00000	4.9082	
35	Nitrobenzene	77	3.861	3.861	(0.885)	1355545	5.00000	4.9296	
41	Isophorone	82	4.022	4.022	(0.922)	2566133	5.00000	5.0070	
42	2-Nitrophenol	139	4.086	4.086	(0.936)	707029	5.00000	5.1708	
43	2,4-Dimethylphenol	107	4.086	4.086	(0.936)	1210827	5.00000	5.0122	

44	bis(2-Chloroethoxy)methane	93	4.150	4.150 (0.951)	1519570	5.00000	4.9969
46	2,4-Toluenediamene	121	5.188	5.188 (1.189)	649009	5.00000	5.7652
47	1,3,5-Trichlorobenzene	180	4.097	4.097 (0.939)	1060204	5.00000	4.9593

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.252	4.252	(0.974)	875316	5.00000	4.9598
49	Benzoic Acid	122	4.177	4.177	(0.957)	1636963	10.0000	9.2964(H)
50	1,2,4-Trichlorobenzene	180	4.321	4.321	(0.990)	1039120	5.00000	4.9689
51	Naphthalene	128	4.380	4.380	(1.004)	3768983	5.00000	5.0796
52	4-Chloroaniline	127	4.402	4.402	(1.009)	1524125	5.00000	5.5556
56	Hexachlorobutadiene	225	4.461	4.461	(1.022)	553844	5.00000	5.0966
210	Caprolactam	113	4.658	4.658	(1.067)	442190	5.00000	5.2197
57	1,2,3-Trichlorobenzene	180	4.482	4.482	(1.027)	979171	5.00000	5.0510
59	4-Chloro-3-Methylphenol	107	4.728	4.728	(1.083)	1120554	5.00000	5.2219
62	2-Methylnaphthalene	142	4.872	4.872	(1.116)	2067071	5.00000	5.1523
63	1-Methylnaphthalene	142	4.947	4.947	(1.134)	2352439	5.00000	5.0153
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.885)	663537	5.00000	5.3390
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.899)	669962	5.00000	5.3199
67	2,4,5-Trichlorophenol	196	5.097	5.097	(0.904)	734084	5.00000	5.2010
211	1,1'-Biphenyl	154	5.204	5.204	(0.923)	3062394	5.00000	5.0308
68	1,2,3,5-Tetrachlorobenzene	216	4.985	4.985	(0.884)	1004548	5.00000	5.0182
70	2-Chloronaphthalene	162	5.231	5.231	(0.928)	2230262	5.00000	5.0712
73	2-Nitroaniline	65	5.290	5.290	(0.938)	780505	5.00000	5.0886
74	1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.923)	929837	5.00000	5.1285
76	Dimethylphthalate	163	5.402	5.402	(0.958)	2545086	5.00000	4.9779
78	2,6-Dinitrotoluene	165	5.450	5.450	(0.967)	612056	5.00000	5.1687
79	Acenaphthylene	152	5.536	5.536	(0.982)	3764918	5.00000	5.1768
80	1,2-Dinitrobenzene	168	5.498	5.498	(0.975)	305626	5.00000	5.2282
81	3-Nitroaniline	138	5.584	5.584	(0.991)	702330	5.00000	5.1062
82	Acenaphthene	153	5.659	5.659	(1.004)	2396962	5.00000	4.9714
83	2,4-Dinitrophenol	184	5.659	5.659	(1.004)	1025852	10.0000	10.680
85	4-Nitrophenol	109	5.685	5.685	(1.009)	333546	5.00000	5.1827(H)
86	Dibenzofuran	168	5.782	5.782	(1.026)	3190137	5.00000	5.0493
87	2,4-Dinitrotoluene	165	5.750	5.750	(1.020)	840641	5.00000	5.1584
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.035)	625084	5.00000	5.2089
93	Diethylphthalate	149	5.905	5.905	(1.047)	2627184	5.00000	4.9128
94	Fluorene	166	6.033	6.033	(1.070)	2722944	5.00000	5.0132
95	4-Chlorophenyl-phenylether	204	6.012	6.012	(1.066)	1194190	5.00000	4.9720
96	4-Nitroaniline	138	6.028	6.028	(1.069)	768572	5.00000	5.4295
98	4,6-Dinitro-2-methylphenol	198	6.049	6.049	(0.900)	525709	5.00000	5.1724
99	N-Nitrosodiphenylamine	169	6.097	6.097	(0.908)	2007974	5.00000	5.1795
100	1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	2935515	5.00000	5.0566
106	4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	704352	5.00000	5.1441
107	Hexachlorobenzene	284	6.440	6.440	(0.959)	663493	5.00000	4.9986
212	Atrazine	200	6.461	6.461	(0.962)	467601	5.00000	5.3462
111	Pentachlorophenol	266	6.573	6.573	(0.979)	1014042	10.0000	10.203
115	Phenanthrene	178	6.739	6.739	(1.003)	3859484	5.00000	5.1441
116	Anthracene	178	6.776	6.776	(1.009)	3923110	5.00000	5.1917
119	Carbazole	167	6.878	6.878	(1.024)	3746923	5.00000	5.1848
120	Di-n-Butylphthalate	149	7.087	7.087	(1.055)	4585370	5.00000	5.5220
123	Fluoranthene	202	7.606	7.606	(1.132)	3920859	5.00000	5.1593
124	Benzidine	184	7.675	7.675	(0.885)	2525816	5.00000	5.4662
125	Pyrene	202	7.777	7.777	(0.896)	4143846	5.00000	5.1015
131	Butylbenzylphthalate	149	8.189	8.189	(0.944)	2013311	5.00000	5.0472
133	3,3'-Dimethoxybenzidine	244	8.584	8.584	(0.990)	859255	5.00000	5.0996
135	3,3'-Dichlorobenzidine	252	8.622	8.622	(0.994)	1520408	5.00000	5.1312
136	Benzo(a)Anthracene	228	8.665	8.665	(0.999)	4038542	5.00000	4.9587

137 Chrysene	228	8.697	8.697 (1.002)	3735918	5.00000	4.9341
138 4,4'-Methylene bis(o-chloroan	231	8.611	8.611 (0.993)	800746	5.00000	5.2252

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
139 bis(2-ethylhexyl)Phthalate	149	8.595	8.595	(0.991)	2876616	5.00000	5.0680
140 Di-n-octylphthalate	149	9.114	9.114	(0.907)	4736317	5.00000	5.3240
141 Benzo(b)fluoranthene	252	9.622	9.622	(0.958)	3975129	5.00000	5.3258
142 Benzo(k)fluoranthene	252	9.654	9.654	(0.961)	4100474	5.00000	4.9715
146 Benzo(a)pyrene	252	9.986	9.986	(0.994)	3696330	5.00000	5.1834
149 Indeno(1,2,3-cd)pyrene	276	11.531	11.531	(1.148)	4130568	5.00000	5.1967
150 Dibenz(a,h)anthracene	278	11.537	11.537	(1.149)	3487778	5.00000	5.2652
151 Benzo(g,h,i)perylene	276	11.981	11.981	(1.193)	3406342	5.00000	5.2446
198 1,4-Dioxane	88	1.690	1.690	(0.486)	475851	5.00000	4.9435
$ 154 Nitrobenzene-d5	82	3.851	3.851	(0.882)	1474011	5.00000	4.9957
$ 155 2-Fluorobiphenyl	172	5.124	5.124	(0.909)	2549457	5.00000	5.1227
$ 156 Terphenyl-d14	244	7.857	7.857	(0.906)	2598579	5.00000	5.0780
$ 157 Phenol-d5	99	3.188	3.188	(0.917)	1537067	5.00000	5.1597
$ 158 2-Fluorophenol	112	2.610	2.610	(0.751)	1136679	5.00000	4.9935
$ 159 2,4,6-Tribromophenol	330	6.204	6.204	(1.101)	318244	5.00000	5.1826
$ 186 2-Chlorophenol-d4	132	3.321	3.321	(0.955)	1182841	5.00000	5.0558
$ 187 1,2-Dichlorobenzene-d4	152	3.589	3.589	(1.032)	791526	5.00000	4.9440
M 195 Cresols, total	100				2305159	5.00000	
101 Diphenylamine	169	6.097	6.097	(0.908)	2007974	5.00000	5.1795

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: ICVTCL.D
Lab Smp Id: icvtcl
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\8270C-625.m
Misc Info:

Calibration Date: 01-MAR-2010
Calibration Time: 19:36
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	288762	144381	577524	398185	37.89
2 Naphthalene-d8	1201385	600693	2402770	1668551	38.89
3 Acenaphthene-d10	684342	342171	1368684	877584	28.24
4 Phenanthrene-d10	1147739	573870	2295478	1388767	21.00
5 Chrysene-d12	1319428	659714	2638856	1649880	25.05
6 Perylene-d12	1160278	580139	2320556	1481513	27.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.48	0.15
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.64	0.09
4 Phenanthrene-d10	6.72	6.22	7.22	6.72	0.00
5 Chrysene-d12	8.67	8.17	9.17	8.68	0.12
6 Perylene-d12	10.04	9.54	10.54	10.05	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\ICVTCL.D

Page 1

Date : 01-MAR-2010 18:18

Client ID:

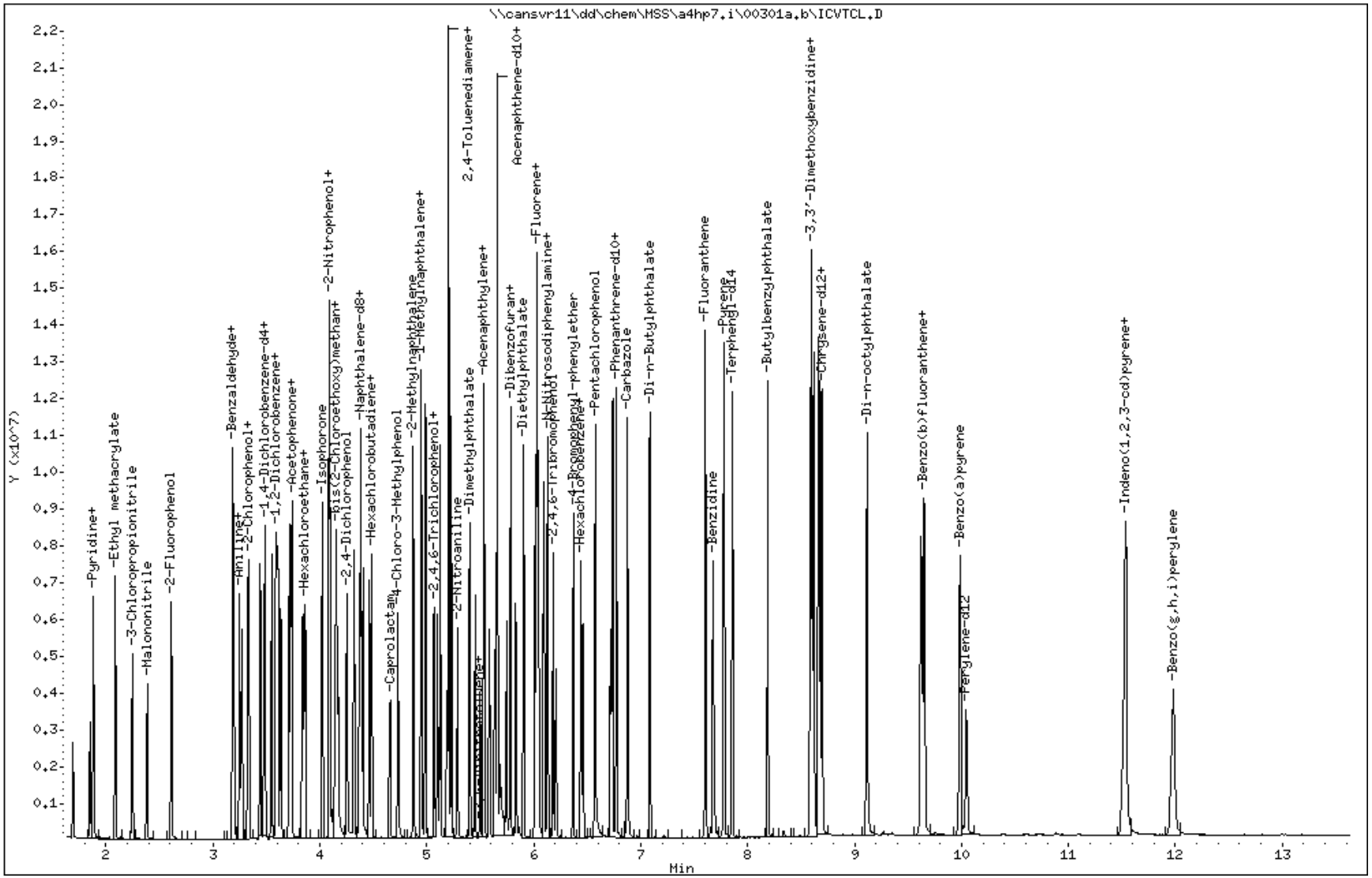
Instrument: a4hp7.i

Sample Info: icvtcl,00301a.b,8270C-625,1-827042d.sub,2

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



Report Date: 02-Mar-2010 10:34

Calibration History

Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Start Cal Date: 01-MAR-2010 15:23
End Cal Date : 01-MAR-2010 20:53
Last Cal Level: 2
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
01-MAR-2010 16:41	pah	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SLL0301.D		
Cal Level: 2 , Cal Amount: 0.25000		
01-MAR-2010 20:53	3-ap9	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AL0301.D		
01-MAR-2010 16:22	1-827042d	
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Cal Level: 3 , Cal Amount: 0.50000		
01-MAR-2010 20:34	3-ap9	
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01-MAR-2010 16:02	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SML0301.D		
Cal Level: 4 , Cal Amount: 1.00000		
01-MAR-2010 20:15	3-ap9	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AM0301.D		
01-MAR-2010 15:43	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SM0301.D		
Cal Level: 5 , Cal Amount: 2.50000		
01-MAR-2010 19:55	3-ap9	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AMM0301.D		
01-MAR-2010 15:23	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SMM0301.D		
Cal Level: 6 , Cal Amount: 5.00000		
01-MAR-2010 19:36	3-ap9	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AMH0301.D		
01-MAR-2010 17:59	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SMH0301.D		

Cal Level: 7 , Cal Amount: 7.50000		
01-MAR-2010 19:17	3-ap9	
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01-MAR-2010 17:40	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SH0301.D		

Cal Level: 8 , Cal Amount: 10.00000		
01-MAR-2010 18:57	3-ap9	
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01-MAR-2010 17:20	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SHH0301.D		

Cal Level: 9 , Cal Amount: 12.50000		
01-MAR-2010 18:38	3-ap9	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7AHHH0301.D		
01-MAR-2010 17:01	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00301a.b\7SHHH0301.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

02-MAR-2010 09:36	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\7SMH0302.D		
02-MAR-2010 09:58	3-ap9	
\\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\7AMH0302.D		

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

DKM 3/3/10

Instrument ID: a4hp7.i
Lab File ID: 7SMH0302.D
Analysis Type:
Lab Sample ID: 16
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m

Injection Date: 02-MAR-2010 09:36
Init. Cal. Date(s): 01-MAR-2010 01-MAR-2010
Init. Cal. Times: 15:23 20:53
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
9 Pyridine	1.28492	1.28207	1.28207	0.010	0.22149	50.00000	Averaged
10 N-Nitrosodimethylamine	0.74139	0.73371	0.73371	0.010	1.03470	50.00000	Averaged
11 Ethyl methacrylate	1.12190	1.13906	1.13906	0.010	-1.52956	50.00000	Averaged
12 3-Chloropropionitrile	0.87475	0.88062	0.88062	0.010	-0.67076	50.00000	Averaged
13 Malononitrile	1.65531	1.67478	1.67478	0.010	-1.17599	50.00000	Averaged
209 Benzaldehyde	5.00000	5.36487	0.82038	0.010	-7.29741	0.000e+000	Quadratic
21 Aniline	2.04502	2.10282	2.10282	0.010	-2.82645	50.00000	Averaged
22 Phenol	1.61053	1.63871	1.63871	0.010	-1.74963	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.42153	1.28954	1.28954	0.010	9.28464	50.00000	Averaged
24 2-Chlorophenol	1.28296	1.28746	1.28746	0.010	-0.35127	50.00000	Averaged
26 1,3-Dichlorobenzene	1.33517	1.29519	1.29519	0.010	2.99437	50.00000	Averaged
27 1,4-Dichlorobenzene	1.31210	1.28200	1.28200	0.010	2.29417	20.00000	Averaged
28 1,2-Dichlorobenzene	1.27614	1.23837	1.23837	0.010	2.95975	50.00000	Averaged
29 Benzyl Alcohol	0.84284	0.80621	0.80621	0.010	4.34599	50.00000	Averaged
30 2-Methylphenol	1.11839	1.14662	1.14662	0.010	-2.52379	50.00000	Averaged
31 bis(2-Chloroisopropyl)ether	2.24847	2.19944	2.19944	0.010	2.18090	50.00000	Averaged
37 Acetophenone	1.77704	1.69169	1.69169	0.010	4.80336	50.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.97652	0.95068	0.95068	0.050	2.64594	50.00000	Averaged
192 4-Methylphenol	5.00000	5.10309	1.21014	0.010	-2.06189	0.000e+000	Quadratic
34 Hexachloroethane	0.52193	0.50343	0.50343	0.010	3.54603	50.00000	Averaged
35 Nitrobenzene	0.32960	0.32534	0.32534	0.010	1.29414	50.00000	Averaged
41 Isophorone	0.61432	0.61568	0.61568	0.010	-0.22205	50.00000	Averaged
42 2-Nitrophenol	0.16390	0.16459	0.16459	0.010	-0.42465	20.00000	Averaged
43 2,4-Dimethylphenol	5.00000	5.23286	0.30404	0.010	-4.65719	0.000e+000	Quadratic
44 bis(2-Chloroethoxy)methane	0.36451	0.36172	0.36172	0.010	0.76404	50.00000	Averaged
46 2,4-Toluenediamene	0.13494	0.15119	0.15119	0.010	-12.04636	50.00000	Averaged
47 1,3,5-Trichlorobenzene	0.25625	0.25293	0.25293	0.010	1.29362	50.00000	Averaged
48 2,4-Dichlorophenol	5.00000	5.20471	0.22124	0.010	-4.09420	0.000e+000	Quadratic
49 Benzoic Acid	10.00000	8.92980	0.18690	0.010	10.70203	0.000e+000	Quadratic
50 1,2,4-Trichlorobenzene	0.25067	0.24492	0.24492	0.010	2.29062	50.00000	Averaged
51 Naphthalene	0.88937	0.90397	0.90397	0.010	-1.64096	50.00000	Averaged
52 4-Chloroaniline	0.32884	0.35960	0.35960	0.010	-9.35460	50.00000	Averaged
56 Hexachlorobutadiene	0.13026	0.12757	0.12757	0.010	2.06444	20.00000	Averaged
210 Caprolactam	0.10154	0.10150	0.10150	0.010	0.03921	50.00000	Averaged
57 1,2,3-Trichlorobenzene	0.23236	0.23033	0.23033	0.010	0.87723	50.00000	Averaged
59 4-Chloro-3-Methylphenol	0.25721	0.26410	0.26410	0.010	-2.67719	20.00000	Averaged
62 2-Methylnaphthalene	0.48089	0.48904	0.48904	0.010	-1.69459	50.00000	Averaged
63 1-Methylnaphthalene	0.56223	0.55482	0.55482	0.010	1.31763	50.00000	Averaged
64 Hexachlorocyclopentadiene	0.28324	0.29945	0.29945	0.050	-5.72496	50.00000	Averaged
66 2,4,6-Trichlorophenol	0.28700	0.30506	0.30506	0.010	-6.29110	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.32166	0.31253	0.31253	0.010	2.83970	50.00000	Averaged
211 1,1'-Biphenyl	1.38729	1.39754	1.39754	0.010	-0.73870	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i
Lab File ID: 7SMH0302.D
Analysis Type:
Lab Sample ID: 16
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m

Injection Date: 02-MAR-2010 09:36
Init. Cal. Date(s): 01-MAR-2010 01-MAR-2010
Init. Cal. Times: 15:23 20:53
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
68 1,2,3,5-Tetrachlorobenzene	0.45621	0.45703	0.45703	0.010	-0.18003	50.00000	Averaged
70 2-Chloronaphthalene	1.00226	1.02108	1.02108	0.010	-1.87710	50.00000	Averaged
73 2-Nitroaniline	0.34956	0.35421	0.35421	0.010	-1.33008	50.00000	Averaged
74 1,2,3,4-Tetrachlorobenzene	0.41320	0.41972	0.41972	0.010	-1.57969	50.00000	Averaged
76 Dimethylphthalate	1.16519	1.15411	1.15411	0.010	0.95113	50.00000	Averaged
78 2,6-Dinitrotoluene	0.26987	0.26840	0.26840	0.010	0.54378	50.00000	Averaged
79 Acenaphthylene	1.65743	1.69037	1.69037	0.010	-1.98759	50.00000	Averaged
80 1,2-Dinitrobenzene	0.13322	0.13643	0.13643	0.010	-2.40316	50.00000	Averaged
81 3-Nitroaniline	0.31346	0.30645	0.30645	0.010	2.23874	50.00000	Averaged
82 Acenaphthene	1.09882	1.07488	1.07488	0.010	2.17840	20.00000	Averaged
83 2,4-Dinitrophenol	10.00000	9.79036	0.21182	0.050	2.09639	0.000e+000	Quadratic
85 4-Nitrophenol	5.00000	5.47361	0.16180	0.050	-9.47230	0.000e+000	Quadratic
86 Dibenzofuran	1.43985	1.43972	1.43972	0.010	0.00859	50.00000	Averaged
87 2,4-Dinitrotoluene	0.37139	0.36481	0.36481	0.010	1.77279	50.00000	Averaged
91 2,3,5,6-Tetrachlorophenol	0.27349	0.27814	0.27814	0.010	-1.70168	50.00000	Averaged
93 Diethylphthalate	1.21873	1.17290	1.17290	0.010	3.76079	50.00000	Averaged
94 Fluorene	1.23785	1.22916	1.22916	0.010	0.70210	50.00000	Averaged
95 4-Chlorophenyl-phenylether	0.54738	0.53501	0.53501	0.010	2.25849	50.00000	Averaged
96 4-Nitroaniline	0.32260	0.33821	0.33821	0.010	-4.83772	50.00000	Averaged
98 4,6-Dinitro-2-methylphenol	0.14637	0.14311	0.14311	0.010	2.23055	50.00000	Averaged
99 N-Nitrosodiphenylamine	0.55831	0.55900	0.55900	0.010	-0.12356	20.00000	Averaged
100 1,2-Diphenylhydrazine	0.83603	0.84596	0.84596	0.010	-1.18726	50.00000	Averaged
106 4-Bromophenyl-phenylether	0.19719	0.19664	0.19664	0.010	0.27797	50.00000	Averaged
107 Hexachlorobenzene	0.19115	0.18789	0.18789	0.010	1.70719	50.00000	Averaged
212 Atrazine	0.12596	0.13197	0.13197	0.010	-4.77351	50.00000	Averaged
111 Pentachlorophenol	10.00000	9.85691	0.14080	0.010	1.43094	0.000e+000	Quadratic
115 Phenanthrene	1.08049	1.08873	1.08873	0.010	-0.76238	50.00000	Averaged
116 Anthracene	1.08823	1.10060	1.10060	0.010	-1.13631	50.00000	Averaged
119 Carbazole	1.04075	1.03746	1.03746	0.010	0.31574	50.00000	Averaged
120 Di-n-Butylphthalate	1.19585	1.29582	1.29582	0.010	-8.35902	50.00000	Averaged
123 Fluoranthene	1.09443	1.12553	1.12553	0.010	-2.84088	20.00000	Averaged
124 Benzidine	0.56013	0.57804	0.57804	0.010	-3.19767	50.00000	Averaged
125 Pyrene	0.98466	1.00227	1.00227	0.010	-1.78883	50.00000	Averaged
131 Butylbenzylphthalate	0.48354	0.48032	0.48032	0.010	0.66551	50.00000	Averaged
133 3,3'-Dimethoxybenzidine	0.20425	0.20286	0.20286	0.010	0.68071	50.00000	Averaged
135 3,3'-Dichlorobenzidine	0.35919	0.35761	0.35761	0.010	0.43814	50.00000	Averaged
136 Benzo(a)Anthracene	0.98726	0.93765	0.93765	0.010	5.02519	50.00000	Averaged
137 Chrysene	0.91784	0.92621	0.92621	0.010	-0.91148	50.00000	Averaged
138 4,4'-Methylene bis(o-chloro	0.18577	0.18233	0.18233	0.010	1.85230	50.00000	Averaged
139 bis(2-ethylhexyl)Phthalate	0.68805	0.69063	0.69063	0.010	-0.37496	50.00000	Averaged
140 Di-n-octylphthalate	1.20096	1.23762	1.23762	0.010	-3.05288	20.00000	Averaged
141 Benzo(b)fluoranthene	1.00760	0.97145	0.97145	0.010	3.58844	50.00000	Averaged

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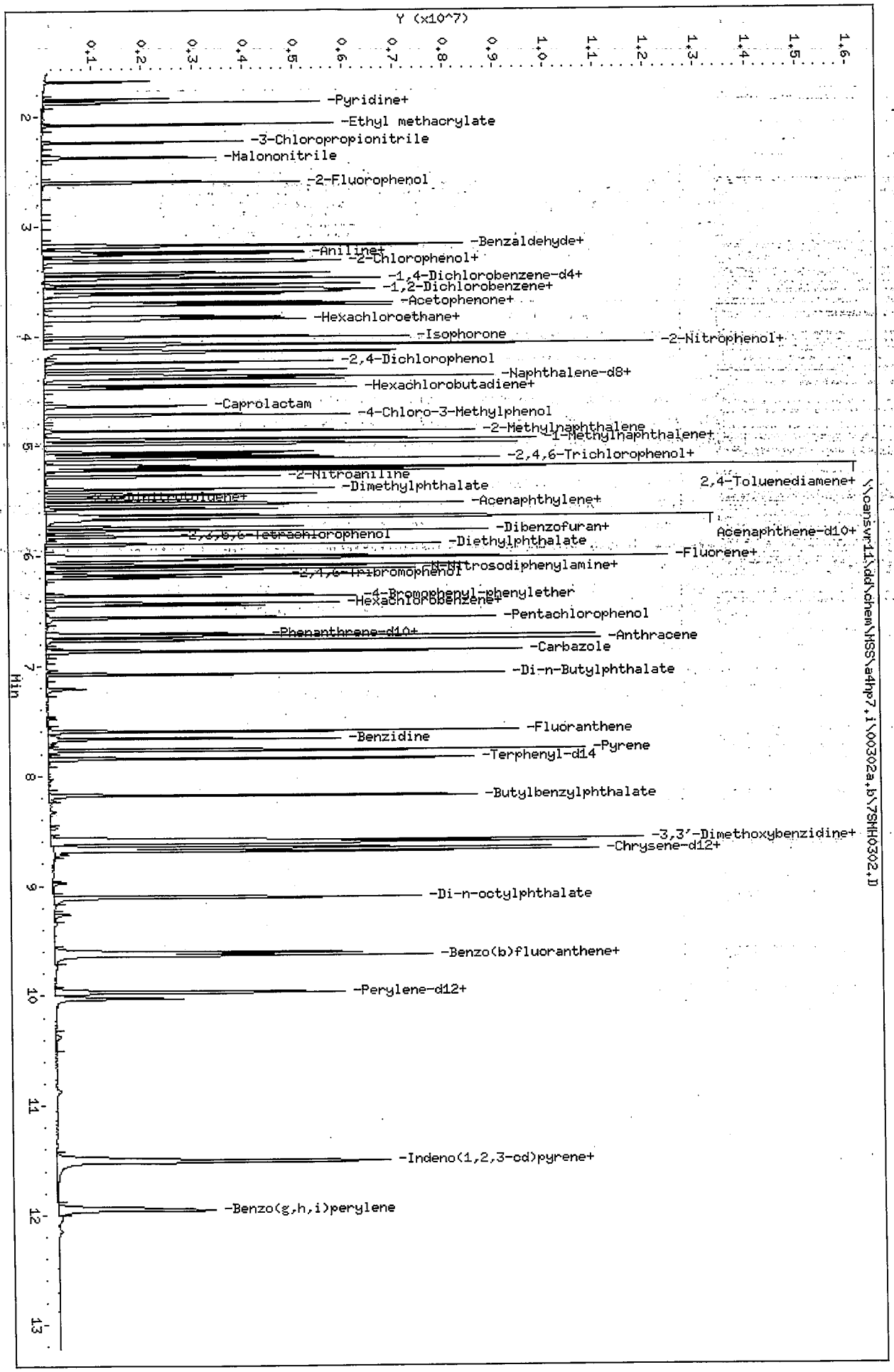
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 02-MAR-2010 09:36
Lab File ID: 7SMH0302.D Init. Cal. Date(s): 01-MAR-2010 01-MAR-2010
Analysis Type: Init. Cal. Times: 15:23 20:53
Lab Sample ID: l6 Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
142 Benzo(k)fluoranthene	1.11344	1.16351	1.16351	0.010	-4.49638	50.00000	Averaged
146 Benzo(a)pyrene	0.96267	0.98675	0.98675	0.010	-2.50139	20.00000	Averaged
149 Indeno(1,2,3-cd)pyrene	1.07302	1.09022	1.09022	0.010	-1.60384	50.00000	Averaged
150 Dibenz(a,h)anthracene	0.89425	0.91264	0.91264	0.010	-2.05564	50.00000	Averaged
151 Benzo(g,h,i)perylene	0.87679	0.89866	0.89866	0.010	-2.49395	50.00000	Averaged
198 1,4-Dioxane	0.48348	0.49426	0.49426	0.010	-2.22955	50.00000	Averaged
$ 154 Nitrobenzene-d5	0.35367	0.34053	0.34053	0.010	3.71353	50.00000	Averaged
$ 155 2-Fluorobiphenyl	1.13420	1.15492	1.15492	0.010	-1.82670	50.00000	Averaged
$ 156 Terphenyl-d14	0.62032	0.61993	0.61993	0.010	0.06317	50.00000	Averaged
$ 157 Phenol-d5	1.49628	1.53134	1.53134	0.010	-2.34340	50.00000	Averaged
$ 158 2-Fluorophenol	1.14334	1.14489	1.14489	0.010	-0.13595	50.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.13994	0.13760	0.13760	0.010	1.67204	50.00000	Averaged
$ 186 2-Chlorophenol-d4	1.17511	1.17880	1.17880	0.010	-0.31382	50.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	0.80413	0.78349	0.78349	0.010	2.56784	50.00000	Averaged
M 195 Cresols, total	2.21860	2.35676	2.35676	0.010	-6.22752	50.00000	Averaged
101 Diphenylamine	0.55831	0.55900	0.55900	0.010	-0.12356	50.00000	Averaged



Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\7SMH0302.D
Date : 02-MAR-2010 09:36
Client ID:
Sample Info: 16,00302a,b,8270C-625,1-8270424,sub,2
Column phase: db5.625

Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\7SMH0302.D
Lab Smp Id: l6
Inj Date : 02-MAR-2010 09:36
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l6,00302a.b,8270C-625,1-827042d.sub,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:14 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	314430	2.00000	
* 2 Naphthalene-d8	136	4.358	4.358	(1.000)	1302947	2.00000	
* 3 Acenaphthene-d10	164	5.625	5.625	(1.000)	667302	2.00000	
* 4 Phenanthrene-d10	188	6.711	6.711	(1.000)	1052286	2.00000	
* 5 Chrysene-d12	240	8.663	8.663	(1.000)	1252372	2.00000	
* 6 Perylene-d12	264	10.027	10.027	(1.000)	1122003	2.00000	
9 Pyridine	79	1.876	1.876	(0.541)	1007803	5.00000	4.9889
10 N-Nitrosodimethylamine	74	1.844	1.844	(0.531)	576755	5.00000	4.9483
11 Ethyl methacrylate	69	2.079	2.079	(0.599)	895388	5.00000	5.0765
12 3-Chloropropionitrile	54	2.240	2.240	(0.646)	692233	5.00000	5.0335
13 Malononitrile	66	2.379	2.379	(0.686)	1316501	5.00000	5.0588
209 Benzaldehyde	77	3.176	3.176	(0.915)	644882	5.00000	5.3649
21 Aniline	93	3.245	3.245	(0.935)	1652973	5.00000	5.1413
22 Phenol	94	3.186	3.186	(0.918)	1288148	5.00000	5.0875
23 bis(2-Chloroethyl)ether	93	3.261	3.261	(0.940)	1013678	5.00000	4.5358
24 2-Chlorophenol	128	3.331	3.331	(0.960)	1012043	5.00000	5.0176
26 1,3-Dichlorobenzene	146	3.432	3.432	(0.989)	1018118	5.00000	4.8503
27 1,4-Dichlorobenzene	146	3.480	3.480	(1.003)	1007749	5.00000	4.8853
28 1,2-Dichlorobenzene	146	3.587	3.587	(1.034)	973448	5.00000	4.8520
29 Benzyl Alcohol	108	3.539	3.539	(1.020)	633744	5.00000	4.7827
30 2-Methylphenol	108	3.603	3.603	(1.039)	901326	5.00000	5.1262
31 bis(2-Chloroisopropyl)ether	45	3.625	3.625	(1.045)	1728921	5.00000	4.8910
37 Acetophenone	105	3.732	3.732	(1.076)	1329792	5.00000	4.7598
32 N-Nitroso-di-n-propylamine	70	3.721	3.721	(1.072)	747307	5.00000	4.8677
192 4-Methylphenol	108	3.705	3.705	(1.068)	951263	5.00000	5.1031
34 Hexachloroethane	117	3.828	3.828	(1.103)	395731	5.00000	4.8227
35 Nitrobenzene	77	3.855	3.855	(0.885)	1059748	5.00000	4.9353
41 Isophorone	82	4.015	4.015	(0.921)	2005509	5.00000	5.0111
42 2-Nitrophenol	139	4.079	4.079	(0.936)	536136	5.00000	5.0212
43 2,4-Dimethylphenol	107	4.079	4.079	(0.936)	990377	5.00000	5.2328
44 bis(2-Chloroethoxy)methane	93	4.144	4.144	(0.951)	1178270	5.00000	4.9618
46 2,4-Toluenediamene	121	5.176	5.176	(1.188)	492485	5.00000	5.6023
47 1,3,5-Trichlorobenzene	180	4.090	4.090	(0.939)	823889	5.00000	4.9353

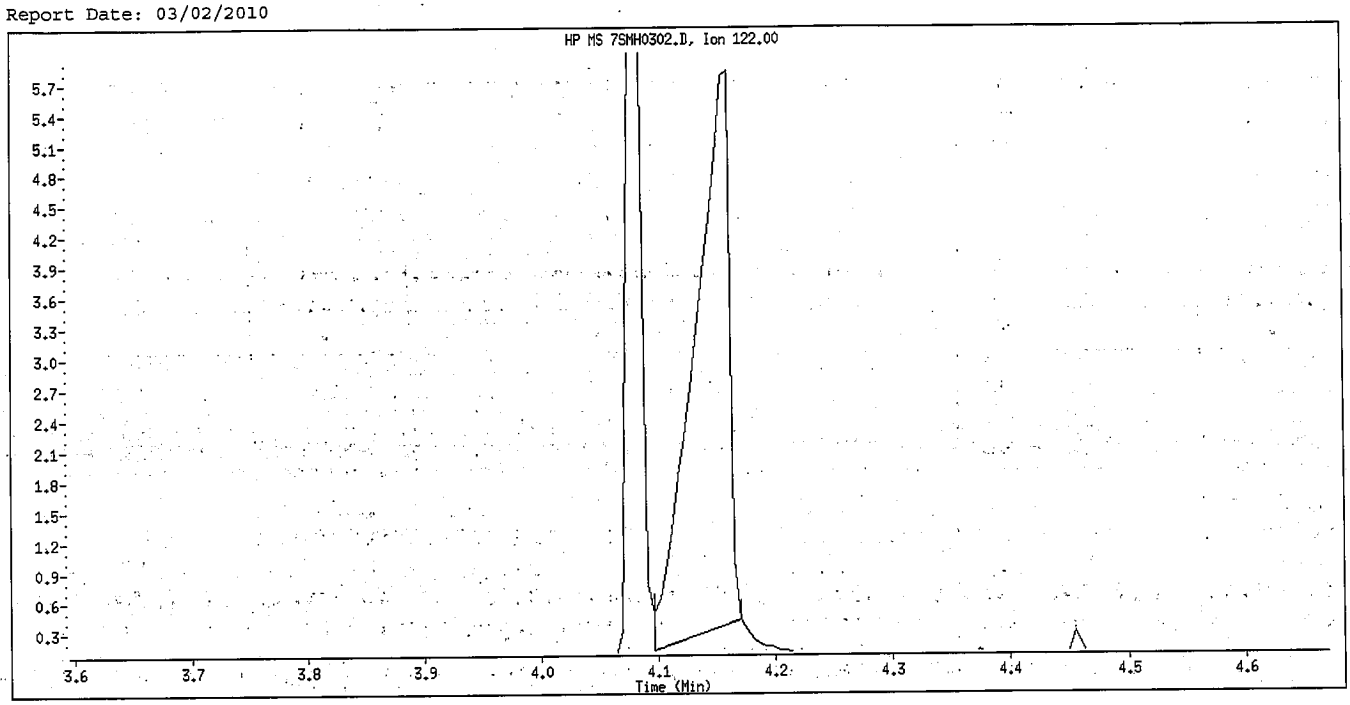
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.245	4.245	(0.974)	720673	5.00000	5.2047
49	Benzoic Acid	122	4.160	4.160	(0.955)	1217631	10.0000	8.9298 (MH)
50	1,2,4-Trichlorobenzene	180	4.315	4.315	(0.990)	797806	5.00000	4.8855
51	Naphthalene	128	4.374	4.374	(1.004)	2944547	5.00000	5.0820
52	4-Chloroaniline	127	4.395	4.395	(1.009)	1171341	5.00000	5.4677
56	Hexachlorobutadiene	225	4.454	4.454	(1.022)	415533	5.00000	4.8968
210	Caprolactam	113	4.641	4.641	(1.065)	330638	5.00000	4.9980
57	1,2,3-Trichlorobenzene	180	4.475	4.475	(1.027)	750256	5.00000	4.9561
59	4-Chloro-3-Methylphenol	107	4.721	4.721	(1.083)	860265	5.00000	5.1338
62	2-Methylnaphthalene	142	4.866	4.866	(1.117)	1592973	5.00000	5.0847
63	1-Methylnaphthalene	142	4.941	4.941	(1.134)	1807248	5.00000	4.9341
64	Hexachlorocyclopentadiene	237	4.983	4.983	(0.886)	499563	5.00000	5.2862
66	2,4,6-Trichlorophenol	196	5.058	5.058	(0.899)	508916	5.00000	5.3146
67	2,4,5-Trichlorophenol	196	5.090	5.090	(0.905)	521374	5.00000	4.8580
211	1,1'-Biphenyl	154	5.197	5.197	(0.924)	2331447	5.00000	5.0369
68	1,2,3,5-Tetrachlorobenzene	216	4.978	4.978	(0.885)	762450	5.00000	5.0090
70	2-Chloronaphthalene	162	5.224	5.224	(0.929)	1703416	5.00000	5.0938
73	2-Nitroaniline	65	5.278	5.278	(0.938)	590912	5.00000	5.0665
74	1,2,3,4-Tetrachlorobenzene	216	5.197	5.197	(0.924)	700206	5.00000	5.0790
76	Dimethylphthalate	163	5.395	5.395	(0.959)	1925345	5.00000	4.9524
78	2,6-Dinitrotoluene	165	5.443	5.443	(0.968)	447762	5.00000	4.9728
79	Acenaphthylene	152	5.529	5.529	(0.983)	2819965	5.00000	5.0994
80	1,2-Dinitrobenzene	168	5.492	5.492	(0.976)	227593	5.00000	5.1202
81	3-Nitroaniline	138	5.572	5.572	(0.990)	511229	5.00000	4.8881
82	Acenaphthene	153	5.652	5.652	(1.005)	1793176	5.00000	4.8911
83	2,4-Dinitrophenol	184	5.647	5.647	(1.004)	706751	10.0000	9.7904
85	4-Nitrophenol	109	5.673	5.673	(1.009)	269932	5.00000	5.4736 (H)
86	Dibenzofuran	168	5.775	5.775	(1.027)	2401826	5.00000	4.9996
87	2,4-Dinitrotoluene	165	5.738	5.738	(1.020)	608595	5.00000	4.9114
91	2,3,5,6-Tetrachlorophenol	232	5.823	5.823	(1.035)	464007	5.00000	5.0851
93	Diethylphthalate	149	5.898	5.898	(1.048)	1956688	5.00000	4.8120
94	Fluorene	166	6.026	6.026	(1.071)	2050546	5.00000	4.9649
95	4-Chlorophenyl-phenylether	204	6.005	6.005	(1.068)	892539	5.00000	4.8871
96	4-Nitroaniline	138	6.021	6.021	(1.070)	564220	5.00000	5.2419
98	4,6-Dinitro-2-methylphenol	198	6.037	6.037	(0.900)	376469	5.00000	4.8885
99	N-Nitrosodiphenylamine	169	6.085	6.085	(0.907)	1470561	5.00000	5.0062
100	1,2-Diphenylhydrazine	77	6.123	6.123	(0.912)	2225473	5.00000	5.0594
106	4-Bromophenyl-phenylether	248	6.363	6.363	(0.948)	517307	5.00000	4.9861
107	Hexachlorobenzene	284	6.433	6.433	(0.959)	494287	5.00000	4.9146
212	Atrazine	200	6.454	6.454	(0.962)	347183	5.00000	5.2387
111	Pentachlorophenol	266	6.567	6.567	(0.978)	740802	10.0000	9.8569
115	Phenanthrene	178	6.727	6.727	(1.002)	2864129	5.00000	5.0381
116	Anthracene	178	6.765	6.765	(1.008)	2895364	5.00000	5.0568
119	Carbazole	167	6.866	6.866	(1.023)	2729264	5.00000	4.9842
120	Di-n-Butylphthalate	149	7.075	7.075	(1.054)	3408923	5.00000	5.4180
123	Fluoranthene	202	7.599	7.599	(1.132)	2960937	5.00000	5.1420
124	Benzidine	184	7.663	7.663	(0.885)	1809809	5.00000	5.1599
125	Pyrene	202	7.770	7.770	(0.897)	3138038	5.00000	5.0894
131	Butylbenzylphthalate	149	8.182	8.182	(0.944)	1503860	5.00000	4.9667
133	3,3'-Dimethoxybenzidine	244	8.572	8.572	(0.990)	635147	5.00000	4.9660
135	3,3'-Dichlorobenzidine	252	8.610	8.610	(0.994)	1119660	5.00000	4.9781
136	Benzo(a)Anthracene	228	8.653	8.653	(0.999)	2935716	5.00000	4.7487
137	Chrysene	228	8.685	8.685	(1.002)	2899885	5.00000	5.0456
138	4,4'-Methylene bis(o-chloroan	231	8.604	8.604	(0.993)	570852	5.00000	4.9074

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.588	8.588	(0.991)	2162310	5.00000	5.0187
140 Di-n-octylphthalate	149	9.107	9.107	(0.908)	3471547	5.00000	5.1526
141 Benzo(b)fluoranthene	252	9.610	9.610	(0.958)	2724912	5.00000	4.8206
142 Benzo(k)fluoranthene	252	9.637	9.637	(0.961)	3263641	5.00000	5.2248
146 Benzo(a)pyrene	252	9.968	9.968	(0.994)	2767836	5.00000	5.1251
149 Indeno(1,2,3-cd)pyrene	276	11.503	11.503	(1.147)	3058089	5.00000	5.0802
150 Dibenz(a,h)anthracene	278	11.509	11.509	(1.148)	2559951	5.00000	5.1028
151 Benzo(g,h,i)perylene	276	11.953	11.953	(1.192)	2520745	5.00000	5.1247
198 1,4-Dioxane	88	1.683	1.683	(0.485)	388527	5.00000	5.1115
$ 154 Nitrobenzene-d5	82	3.844	3.844	(0.882)	1109245	5.00000	4.8143
$ 155 2-Fluorobiphenyl	172	5.117	5.117	(0.910)	1926699	5.00000	5.0913
$ 156 Terphenyl-d14	244	7.845	7.845	(0.906)	1940957	5.00000	4.9968
$ 157 Phenol-d5	99	3.181	3.181	(0.917)	1203751	5.00000	5.1172
$ 158 2-Fluorophenol	112	2.603	2.603	(0.750)	899973	5.00000	5.0068
$ 159 2,4,6-Tribromophenol	330	6.198	6.198	(1.102)	229557	5.00000	4.9164
$ 186 2-Chlorophenol-d4	132	3.315	3.315	(0.955)	926622	5.00000	5.0157
$ 187 1,2-Dichlorobenzene-d4	152	3.582	3.582	(1.032)	615878	5.00000	4.8716
M 195 Cresols, total	100				1852589	5.00000	10.229
101 Diphenylamine	169	6.085	6.085	(0.907)	1470561	5.00000	5.0062

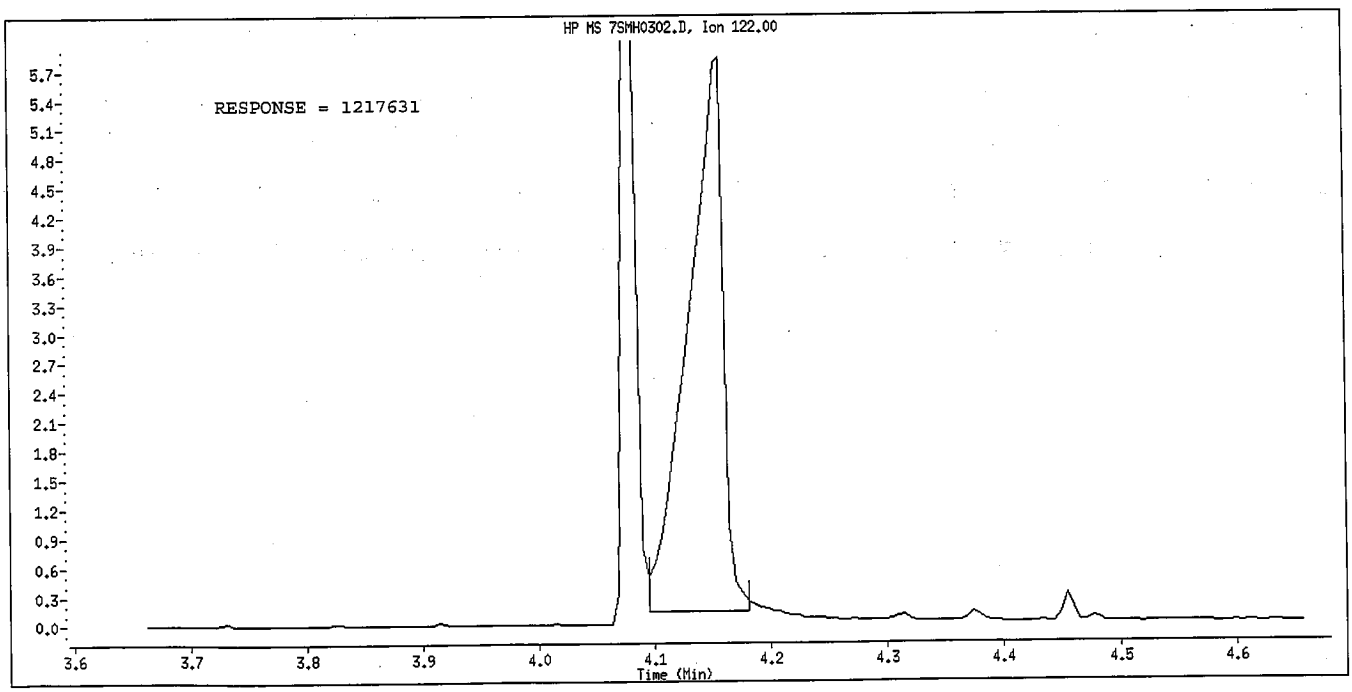
QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File Name: 7SMH0302.D
Inj. Date and Time: 02-MAR-2010 09:36
Instrument ID: a4hp7.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 03/02/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

OKMW 3/3/10

RECOVERY REPORT

Client Name: Client SDG: SDGa00278
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: qcmrlck
Level: LOW Operator: 001710
Data Type: MS DATA SampleType: mrl
SpikeList File: qcmrl.spk Quant Type: ISTD
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82	Acenaphthene	10.000	9.9486	99.49	70-130
79	Acenaphthylene	10.000	10.233	102.33	70-130
116	Anthracene	10.000	10.128	101.28	70-130
136	Benzo(a)Anthracene	10.000	9.6197	96.20	70-130
141	Benzo(b)fluoranthe	10.000	9.6840	96.84	70-130
151	Benzo(g,h,i)peryle	10.000	9.9813	99.81	70-130
146	Benzo(a)pyrene	10.000	10.044	100.45	70-130
29	Benzyl Alcohol	10.000	10.107	101.07	70-130
44	bis(2-Chloroethoxy	10.000	10.063	100.63	70-130
23	bis(2-Chloroethyl)	10.000	9.9698	99.70	70-130
31	bis(2-Chloroisopro	10.000	10.378	103.78	70-130
139	bis(2-ethylhexyl)P	10.000	9.8300	98.30	70-130
106	4-Bromophenyl-phen	10.000	9.7691	97.69	70-130
131	Butylbenzylphthala	10.000	9.8783	98.78	70-130
52	4-Chloroaniline	10.000	11.038	110.38	70-130
70	2-Chloronaphthalen	10.000	10.271	102.71	70-130
95	4-Chlorophenyl-phe	10.000	9.7865	97.86	70-130
137	Chrysene	10.000	10.315	103.15	70-130
150	Dibenz(a,h)anthrac	10.000	10.049	100.49	70-130
86	Dibenzofuran	10.000	9.9194	99.19	70-130
120	Di-n-Butylphthalat	10.000	10.612	106.12	70-130
28	1,2-Dichlorobenzen	10.000	9.9866	99.87	70-130
26	1,3-Dichlorobenzen	10.000	9.9235	99.23	70-130
27	1,4-Dichlorobenzen	10.000	10.007	100.07	70-130
135	3,3'-Dichlorobenzi	10.000	9.8792	98.79	70-130
93	Diethylphthalate	10.000	9.6702	96.70	70-130
76	Dimethylphthalate	10.000	9.8211	98.21	70-130
87	2,4-Dinitrotoluene	10.000	9.7762	97.76	70-130
78	2,6-Dinitrotoluene	10.000	9.8002	98.00	70-130
140	Di-n-octylphthalat	10.000	9.7600	97.60	70-130
123	Fluoranthene	10.000	10.071	100.71	70-130
94	Fluorene	10.000	9.9342	99.34	70-130
107	Hexachlorobenzene	10.000	10.051	100.51	70-130
56	Hexachlorobutadien	10.000	9.9078	99.08	70-130
64	Hexachlorocyclopen	10.000	10.354	103.54	70-130
34	Hexachloroethane	10.000	9.9302	99.30	70-130
149	Indeno(1,2,3-cd)py	10.000	10.000	100.00	70-130
41	Isophorone	10.000	10.165	101.65	70-130
63	1-Methylnaphthalen	10.000	10.111	101.11	70-130
62	2-Methylnaphthalen	10.000	10.250	102.51	70-130

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51 Naphthalene	10.000	10.279	102.79	70-130
73 2-Nitroaniline	10.000	10.132	101.32	70-130
81 3-Nitroaniline	10.000	9.6526	96.53	70-130
96 4-Nitroaniline	10.000	10.343	103.43	70-130
35 Nitrobenzene	10.000	10.064	100.64	70-130
32 N-Nitroso-di-n-pro	10.000	10.151	101.51	70-130
99 N-Nitrosodiphenyla	10.000	10.042	100.42	70-130
115 Phenanthrene	10.000	10.158	101.58	70-130
125 Pyrene	10.000	10.212	102.12	70-130
50 1,2,4-Trichloroben	10.000	9.8857	98.86	70-130
49 Benzoic Acid	20.000	18.635	93.17	70-130
59 4-Chloro-3-Methylp	10.000	10.314	103.14	70-130
24 2-Chlorophenol	10.000	10.204	102.04	70-130
48 2,4-Dichlorophenol	10.000	10.935	109.35	70-130
43 2,4-Dimethylphenol	10.000	10.965	109.65	70-130
98 4,6-Dinitro-2-meth	10.000	9.5053	95.05	70-130
83 2,4-Dinitrophenol	20.000	21.067	105.34	70-130
30 2-Methylphenol	10.000	10.514	105.14	70-130
192 4-Methylphenol	10.000	11.000	110.00	70-130
42 2-Nitrophenol	10.000	10.212	102.12	70-130
85 4-Nitrophenol	10.000	10.722	107.22	70-130
111 Pentachlorophenol	20.000	19.648	98.24	70-130
22 Phenol	10.000	10.415	104.15	70-130
67 2,4,5-Trichlorophe	10.000	9.6506	96.51	70-130
66 2,4,6-Trichlorophe	10.000	10.428	104.29	70-130
119 Carbazole	10.000	10.046	100.46	70-130
142 Benzo(k)fluoranthe	10.000	10.530	105.30	70-130
37 Acetophenone	10.000	10.168	101.69	70-130
209 Benzaldehyde	10.000	10.397	103.97	70-130
210 Caprolactam	10.000	9.9978	99.98	70-130
211 1,1'-Biphenyl	10.000	10.060	100.60	70-130
212 Atrazine	10.000	10.577	105.77	70-130
21 Aniline	10.000	10.022	100.22	70-130
10 N-Nitrosodimethyla	10.000	10.260	102.60	70-130
80 1,2-Dinitrobenzene	10.000	10.121	101.21	70-130
91 2,3,5,6-Tetrachlor	10.000	10.009	100.09	70-130

Data File: \\cansvr11\dd\chem\MSS\a4hp7,i\00302a,b\QCHRLCK,D
Date : 02-MAR-2010 10:18
Client ID:
Sample Info: qcmrlck,00302a,b,8270C-625,1-827042d,sub
Volume Injected (uL): 0.5
Column phase: db5.625

Instrument: a4hp7,i
Operator: 001710
Column diameter: 0.32

\\cansvr11\dd\chem\MSS\a4hp7,i\00302a,b\QCHRLCK,D

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\QCMRLCK.D
Lab Smp Id: qcmrlck
Inj Date : 02-MAR-2010 10:18
Operator : 001710 Inst ID: a4hp7.i
Smp Info : qcmrlck,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:14 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 4 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	331868	2.00000	
* 2 Naphthalene-d8	136	4.358	4.358	(1.000)	1407196	2.00000	
* 3 Acenaphthene-d10	164	5.625	5.625	(1.000)	726310	2.00000	
* 4 Phenanthrene-d10	188	6.711	6.711	(1.000)	1138419	2.00000	
* 5 Chrysene-d12	240	8.669	8.663	(1.000)	1343994	2.00000	
* 6 Perylene-d12	264	10.038	10.027	(1.000)	1179098	2.00000	
9 Pyridine	79	1.876	1.876	(0.541)	551770	2.58790	10.352
10 N-Nitrosodimethylamine	74	1.844	1.844	(0.531)	315548	2.56499	10.260
11 Ethyl methacrylate	69	2.079	2.079	(0.599)	486976	2.61588	10.464
12 3-Chloropropionitrile	54	2.234	2.240	(0.644)	375379	2.58613	10.344
13 Malononitrile	66	2.373	2.379	(0.684)	717467	2.61208	10.448
209 Benzaldehyde	77	3.175	3.176	(0.915)	385052	2.59925	10.397
21 Aniline	93	3.240	3.245	(0.934)	850235	2.50557	10.022
22 Phenol	94	3.186	3.186	(0.918)	695849	2.60382	10.415
23 bis(2-Chloroethyl)ether	93	3.261	3.261	(0.940)	587918	2.49245	9.9698
24 2-Chlorophenol	128	3.325	3.331	(0.958)	543052	2.55090	10.204
26 1,3-Dichlorobenzene	146	3.432	3.432	(0.989)	549637	2.48087	9.9235
27 1,4-Dichlorobenzene	146	3.480	3.480	(1.003)	544693	2.50178	10.007
28 1,2-Dichlorobenzene	146	3.587	3.587	(1.034)	528674	2.49664	9.9866
29 Benzyl Alcohol	108	3.539	3.539	(1.020)	353388	2.52679	10.107

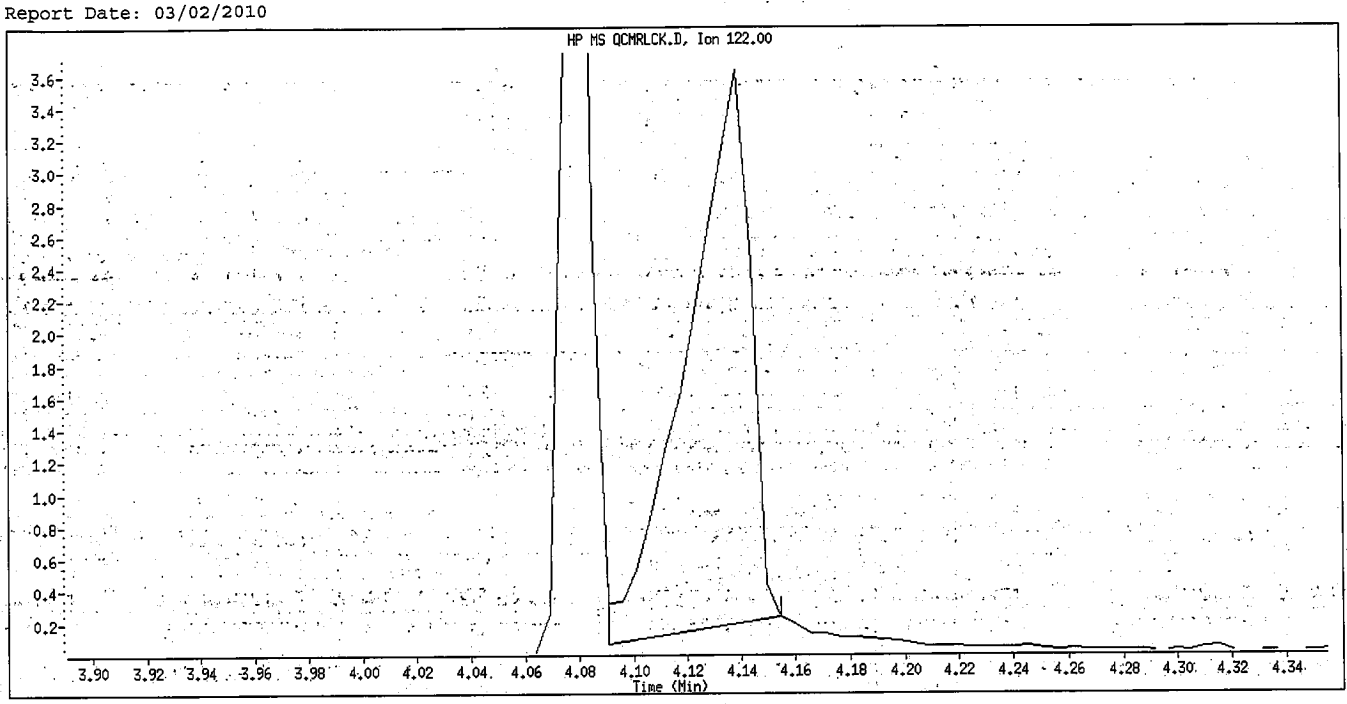
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
30 2-Methylphenol	108	3.598	3.603	(1.037)	487777	2.62841	10.514
31 bis(2-Chloroisopropyl)ether	45	3.625	3.625	(1.045)	967994	2.59448	10.378
37 Acetophenone	105	3.726	3.732	(1.074)	749604	2.54213	10.168
32 N-Nitroso-di-n-propylamine	70	3.716	3.721	(1.071)	411204	2.53770	10.151
192 4-Methylphenol	108	3.700	3.705	(1.066)	515256	2.74990	11.000
34 Hexachloroethane	117	3.828	3.828	(1.103)	215006	2.48256	9.9302
35 Nitrobenzene	77	3.855	3.855	(0.885)	583465	2.51592	10.064
41 Isophorone	82	4.015	4.015	(0.921)	1098391	2.54119	10.165
42 2-Nitrophenol	139	4.079	4.079	(0.936)	294410	2.55305	10.212
43 2,4-Dimethylphenol	107	4.079	4.079	(0.936)	535482	2.74133	10.965
44 bis(2-Chloroethoxy)methane	93	4.144	4.144	(0.951)	645201	2.51572	10.063
46 2,4-Toluenediamene	121	5.176	5.176	(1.188)	307552	3.23941	12.958
47 1,3,5-Trichlorobenzene	180	4.090	4.090	(0.939)	445831	2.47280	9.8912
48 2,4-Dichlorophenol	162	4.245	4.245	(0.974)	382363	2.73375	10.935
49 Benzoic Acid	122	4.138	4.160	(0.950)	581526	4.65873	18.635(M)
50 1,2,4-Trichlorobenzene	180	4.315	4.315	(0.990)	435880	2.47143	9.8857
51 Naphthalene	128	4.374	4.374	(1.004)	1607988	2.56966	10.279
52 4-Chloroaniline	127	4.395	4.395	(1.009)	638476	2.75956	11.038
56 Hexachlorobutadiene	225	4.454	4.454	(1.022)	227008	2.47696	9.9078
210 Caprolactam	113	4.630	4.641	(1.063)	178577	2.49945	9.9978
57 1,2,3-Trichlorobenzene	180	4.475	4.475	(1.027)	405746	2.48176	9.9270
59 4-Chloro-3-Methylphenol	107	4.721	4.721	(1.083)	466630	2.57844	10.314
62 2-Methylnaphthalene	142	4.866	4.866	(1.117)	867073	2.56264	10.250
63 1-Methylnaphthalene	142	4.941	4.941	(1.134)	999957	2.52782	10.111
64 Hexachlorocyclopentadiene	237	4.983	4.983	(0.886)	266253	2.58852	10.354
66 2,4,6-Trichlorophenol	196	5.058	5.058	(0.899)	271733	2.60714	10.428
67 2,4,5-Trichlorophenol	196	5.090	5.090	(0.905)	281829	2.41266	9.6506
211 1,1'-Biphenyl	154	5.197	5.197	(0.924)	1267007	2.51490	10.060
68 1,2,3,5-Tetrachlorobenzene	216	4.978	4.978	(0.885)	414863	2.50406	10.016
70 2-Chloronaphthalene	162	5.224	5.224	(0.929)	934641	2.56786	10.271
73 2-Nitroaniline	65	5.277	5.278	(0.938)	321545	2.53296	10.132
74 1,2,3,4-Tetrachlorobenzene	216	5.197	5.197	(0.924)	384841	2.56468	10.259
76 Dimethylphthalate	163	5.390	5.395	(0.958)	1038934	2.45527	9.8211
78 2,6-Dinitrotoluene	165	5.443	5.443	(0.968)	240116	2.45006	9.8002
79 Acenaphthylene	152	5.524	5.529	(0.982)	1539823	2.55826	10.233
80 1,2-Dinitrobenzene	168	5.486	5.492	(0.975)	122412	2.53017	10.121
81 3-Nitroaniline	138	5.572	5.572	(0.990)	274703	2.41315	9.6526
82 Acenaphthene	153	5.652	5.652	(1.005)	992478	2.48716	9.9486
83 2,4-Dinitrophenol	184	5.647	5.647	(1.004)	378259	5.26683	21.067
85 4-Nitrophenol	109	5.668	5.673	(1.008)	132094	2.68040	10.722
86 Dibenzofuran	168	5.775	5.775	(1.027)	1296683	2.47985	9.9194
87 2,4-Dinitrotoluene	165	5.737	5.738	(1.020)	329637	2.44405	9.7762
91 2,3,5,6-Tetrachlorophenol	232	5.823	5.823	(1.035)	248528	2.50236	10.009
93 Diethylphthalate	149	5.898	5.898	(1.048)	1069974	2.41754	9.6702
94 Fluorene	166	6.021	6.026	(1.070)	1116435	2.48356	9.9342
95 4-Chlorophenyl-phenylether	204	6.005	6.005	(1.068)	486345	2.44662	9.7865
96 4-Nitroaniline	138	6.016	6.021	(1.069)	302922	2.58565	10.343
98 4,6-Dinitro-2-methylphenol	198	6.037	6.037	(0.900)	197984	2.37632	9.5053
99 N-Nitrosodiphenylamine	169	6.085	6.085	(0.907)	797803	2.51044	10.042
100 1,2-Diphenylhydrazine	77	6.117	6.123	(0.912)	1211577	2.54599	10.184
106 4-Bromophenyl-phenylether	248	6.363	6.363	(0.948)	274126	2.44228	9.7691
107 Hexachlorobenzene	284	6.433	6.433	(0.959)	273413	2.51283	10.051
212 Atrazine	200	6.449	6.454	(0.961)	189583	2.64420	10.577
111 Pentachlorophenol	266	6.561	6.567	(0.978)	380839	4.91198	19.648

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
115 Phenanthrene	178	6.727	6.727	(1.002)	1561801	2.53941	10.158
116 Anthracene	178	6.764	6.765	(1.008)	1568436	2.53205	10.128
119 Carbazole	167	6.866	6.866	(1.023)	1487800	2.51147	10.046
120 Di-n-Butylphthalate	149	7.075	7.075	(1.054)	1805910	2.65305	10.612
123 Fluoranthene	202	7.593	7.599	(1.131)	1568501	2.51781	10.071
124 Benzidine	184	7.663	7.663	(0.884)	924858	2.45707	9.8283
125 Pyrene	202	7.770	7.770	(0.896)	1689339	2.55308	10.212
131 Butylbenzylphthalate	149	8.182	8.182	(0.944)	802458	2.46957	9.8783
133 3,3'-Dimethoxybenzidine	244	8.578	8.572	(0.990)	325691	2.37285	9.4914
135 3,3'-Dichlorobenzidine	252	8.615	8.610	(0.994)	596140	2.46980	9.8792
136 Benzo(a)Anthracene	228	8.658	8.653	(0.999)	1595521	2.40493	9.6197
137 Chrysene	228	8.690	8.685	(1.002)	1590600	2.57885	10.315
138 4,4'-Methylene bis(o-chloroan	231	8.610	8.604	(0.993)	307441	2.46277	9.8511
139 bis(2-ethylhexyl)Phthalate	149	8.594	8.588	(0.991)	1136264	2.45750	9.8300
140 Di-n-octylphthalate	149	9.112	9.107	(0.908)	1727583	2.44000	9.7600
141 Benzo(b)fluoranthene	252	9.615	9.610	(0.958)	1438156	2.42101	9.6840
142 Benzo(k)fluoranthene	252	9.642	9.637	(0.961)	1728104	2.63259	10.530
146 Benzo(a)pyrene	252	9.974	9.968	(0.994)	1425168	2.51113	10.044
149 Indeno(1,2,3-cd)pyrene	276	11.503	11.503	(1.146)	1581520	2.50005	10.000
150 Dibenz(a,h)anthracene	278	11.509	11.509	(1.147)	1324533	2.51236	10.049
151 Benzo(g,h,i)perylene	276	11.953	11.953	(1.191)	1289861	2.49532	9.9813
198 1,4-Dioxane	88	1.683	1.683	(0.485)	209467	2.61096	10.444
101 Diphenylamine	169	6.085	6.085	(0.907)	797803	2.51044	10.042

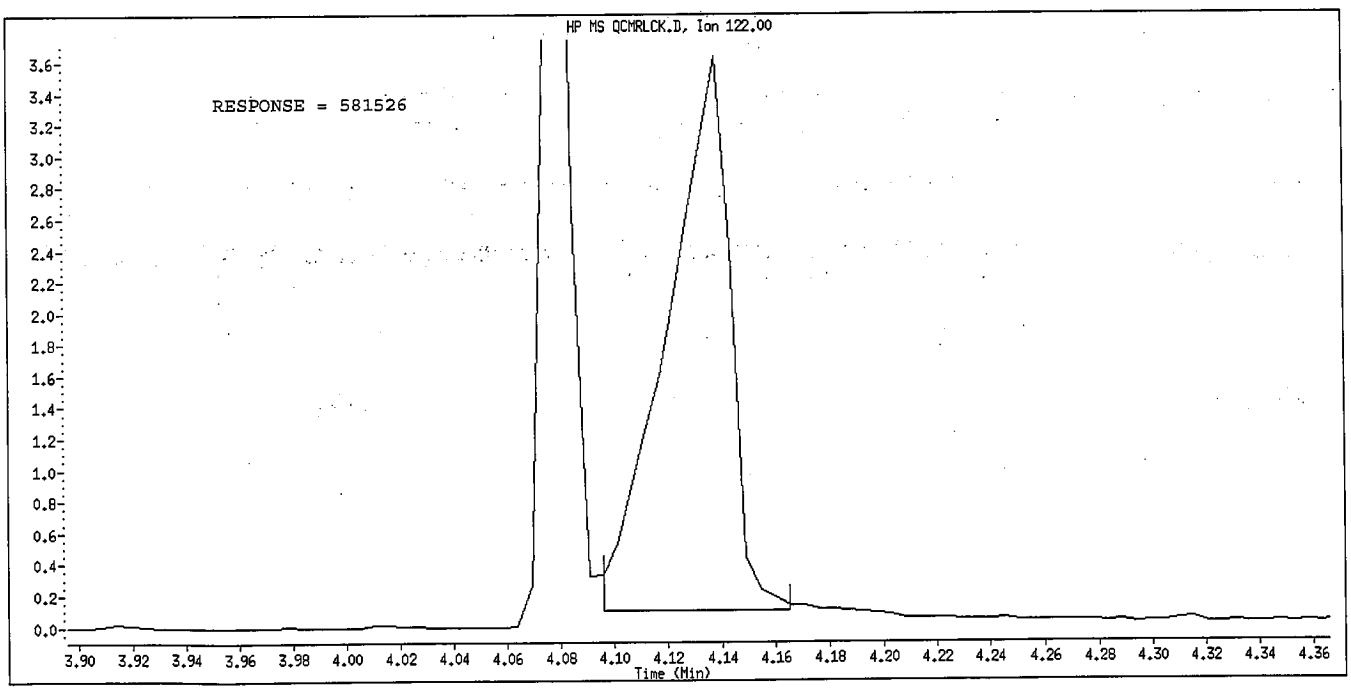
QC Flag Legend

M - Compound response manually integrated.

Data File Name: QCMRLCK.D
Inj. Date and Time: 02-MAR-2010 10:18
Instrument ID: a4hp7.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 03/02/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Report Date: 03-Mar-2010 08:38

TestAmerica North Canton

FAiled: Hexachlorocyclopentadiene
Hexachloroethane
Benzoic Acid

RECOVERY REPORT

OKAW 3/3/10

Client Name: Client SDG: SDGa00278
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: qcmrlcl
Level: LOW Operator: 001710
Data Type: MS DATA SampleType: mrl
SpikeList File: qcmrl.spk Quant Type: ISTD
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

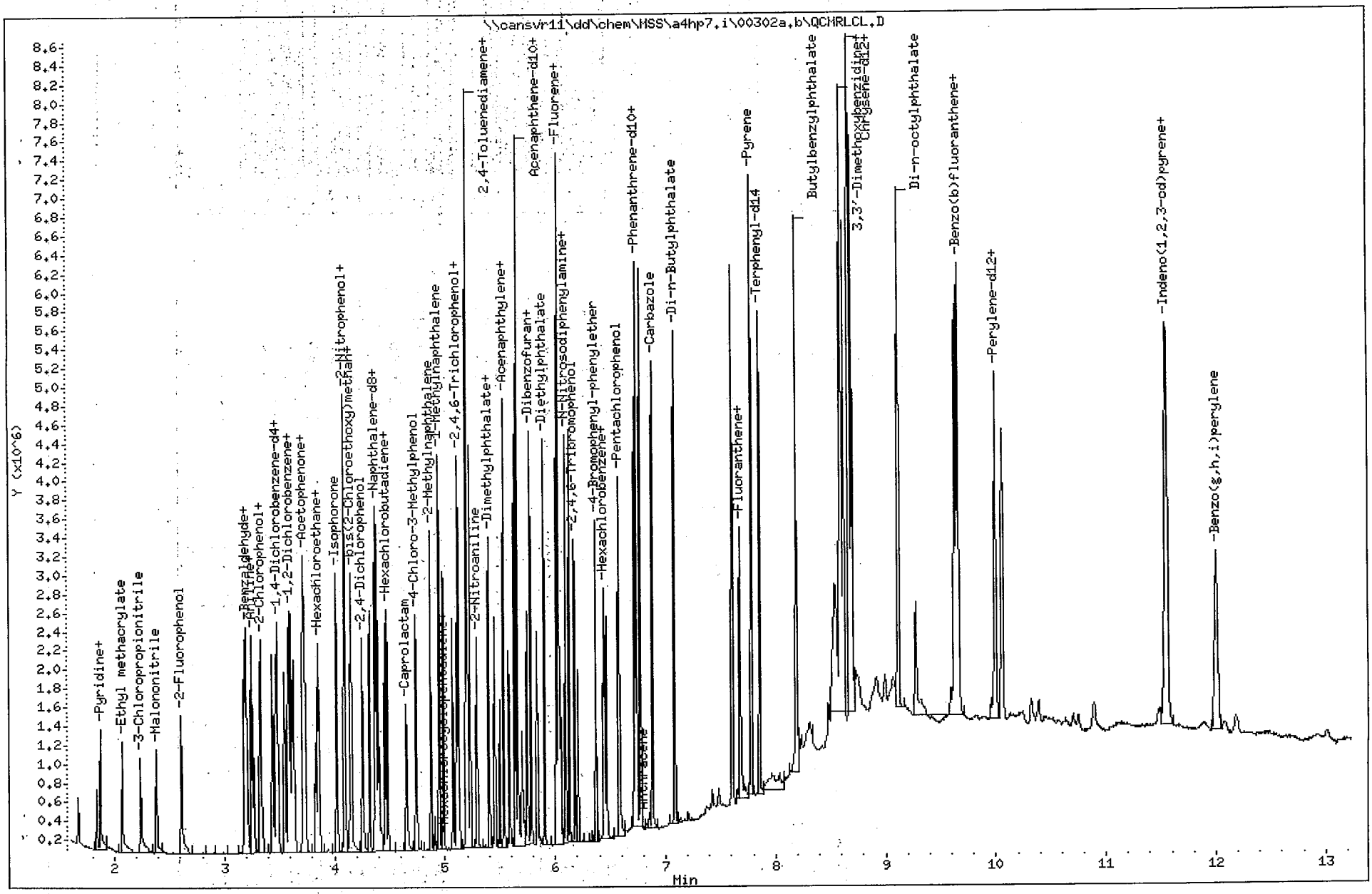
SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82	Acenaphthene	10.000	9.8309	98.31	70-130
79	Acenaphthylene	10.000	10.282	102.82	70-130
116	Anthracene	10.000	10.177	101.77	70-130
136	Benzo(a)Anthracene	10.000	10.373	103.73	70-130
141	Benzo(b)fluoranthe	10.000	10.377	103.77	70-130
151	Benzo(g,h,i)peryle	10.000	10.352	103.52	70-130
146	Benzo(a)pyrene	10.000	10.305	103.05	70-130
29	Benzyl Alcohol	10.000	10.314	103.14	70-130
44	bis(2-Chloroethoxy	10.000	9.9774	99.77	70-130
23	bis(2-Chloroethyl)	10.000	11.064	110.65	70-130
31	bis(2-Chloroisopro	10.000	9.2750	92.75	70-130
139	bis(2-ethylhexyl)P	10.000	10.335	103.35	70-130
106	4-Bromophenyl-phen	10.000	9.7006	97.01	70-130
131	Butylbenzylphthala	10.000	10.160	101.60	70-130
52	4-Chloroaniline	10.000	11.976	119.76	70-130
70	2-Chloronaphthalen	10.000	10.028	100.28	70-130
95	4-Chlorophenyl-phe	10.000	10.147	101.47	70-130
137	Chrysene	10.000	10.476	104.76	70-130
150	Dibenz(a,h)anthrac	10.000	10.877	108.77	70-130
86	Dibenzofuran	10.000	10.142	101.42	70-130
120	Di-n-Butylphthalat	10.000	10.907	109.07	70-130
28	1,2-Dichlorobenzen	10.000	9.7717	97.72	70-130
26	1,3-Dichlorobenzen	10.000	9.6558	96.56	70-130
27	1,4-Dichlorobenzen	10.000	9.7595	97.59	70-130
135	3,3'-Dichlorobenzi	10.000	9.9040	99.04	70-130
93	Diethylphthalate	10.000	10.206	102.06	70-130
76	Dimethylphthalate	10.000	10.247	102.47	70-130
87	2,4-Dinitrotoluene	10.000	10.537	105.37	70-130
78	2,6-Dinitrotoluene	10.000	10.388	103.88	70-130
140	Di-n-octylphthalat	10.000	11.137	111.37	70-130
123	Fluoranthene	10.000	10.686	106.86	70-130
94	Fluorene	10.000	10.086	100.86	70-130
107	Hexachlorobenzene	10.000	9.8946	98.95	70-130
56	Hexachlorobutadien	10.000	10.062	100.62	70-130
64	Hexachlorocyclopen	10.000	2.3803	23.80*	70-130
34	Hexachloroethane	10.000	6.3967	63.97*	70-130
149	Indeno(1,2,3-cd)py	10.000	10.502	105.02	70-130
41	Isophorone	10.000	10.088	100.88	70-130
63	1-Methylnaphthalen	10.000	10.826	108.26	70-130
62	2-Methylnaphthalen	10.000	10.942	109.42	70-130

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51	Naphthalene	10.000	10.307	103.07	70-130
73	2-Nitroaniline	10.000	9.8071	98.07	70-130
81	3-Nitroaniline	10.000	10.115	101.15	70-130
96	4-Nitroaniline	10.000	11.425	114.25	70-130
35	Nitrobenzene	10.000	9.5549	95.55	70-130
32	N-Nitroso-di-n-pro	10.000	10.018	100.18	70-130
99	N-Nitrosodiphenyla	10.000	9.6049	96.05	70-130
115	Phenanthrene	10.000	9.9888	99.89	70-130
125	Pyrene	10.000	10.096	100.96	70-130
50	1,2,4-Trichloroben	10.000	10.313	103.13	70-130
49	Benzoic Acid	20.000	12.688	63.44*	70-130
59	4-Chloro-3-Methylp	10.000	11.421	114.21	70-130
24	2-Chlorophenol	10.000	10.107	101.07	70-130
48	2,4-Dichlorophenol	10.000	11.839	118.39	70-130
43	2,4-Dimethylphenol	10.000	11.232	112.32	70-130
98	4,6-Dinitro-2-meth	10.000	8.2750	82.75	70-130
83	2,4-Dinitrophenol	20.000	18.206	91.03	70-130
30	2-Methylphenol	10.000	10.638	106.38	70-130
192	4-Methylphenol	10.000	11.225	112.25	70-130
42	2-Nitrophenol	10.000	10.345	103.45	70-130
85	4-Nitrophenol	10.000	11.832	118.32	70-130
111	Pentachlorophenol	20.000	17.526	87.63	70-130
22	Phenol	10.000	10.263	102.63	70-130
67	2,4,5-Trichlorophe	10.000	10.413	104.13	70-130
66	2,4,6-Trichlorophe	10.000	10.651	106.51	70-130
119	Carbazole	10.000	10.022	100.22	70-130
142	Benzo(k)fluoranthe	10.000	10.058	100.58	70-130
37	Acetophenone	10.000	10.113	101.13	70-130
209	Benzaldehyde	10.000	10.357	103.57	70-130
210	Caprolactam	10.000	11.738	117.38	70-130
211	1,1'-Biphenyl	10.000	9.5499	95.50	70-130
212	Atrazine	10.000	10.886	108.86	70-130
21	Aniline	10.000	9.2558	92.56	70-130
10	N-Nitrosodimethyla	10.000	7.6850	76.85	70-130
80	1,2-Dinitrobenzene	10.000	10.322	103.22	70-130
91	2,3,5,6-Tetrachlor	10.000	10.438	104.38	70-130

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\QCHRLCL.D
Date : 02-MAR-2010 16:57
Client ID:
Sample Info: qcmrlcl,00302a,b,8270C-625,1-827042d,sub
Volume Injected (uL): 0.5
Column phase: db5.625

Instrument: a4hp7.i

Operator: 001710
Column diameter: 0.32



North Canton

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\QCMRLCL.D
Lab Smp Id: qcmrlcl
Inj Date : 02-MAR-2010 16:57
Operator : 001710 Inst ID: a4hp7.i
Smp Info : qcmrlcl,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:34 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 4 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	262582	2.00000	
* 2	Naphthalene-d8	136	4.368	4.358	(1.000)	1146159	2.00000	
* 3	Acenaphthene-d10	164	5.636	5.625	(1.000)	668918	2.00000	
* 4	Phenanthrene-d10	188	6.722	6.711	(1.000)	1170084	2.00000	
* 5	Chrysene-d12	240	8.679	8.663	(1.000)	1487479	2.00000	
* 6	Perylene-d12	264	10.059	10.027	(1.000)	1415832	2.00000	
9	Pyridine	79	1.871	1.876	(0.539)	382758	2.26890	9.0756
10	N-Nitrosodimethylamine	74	1.838	1.844	(0.530)	187010	1.92126	7.6850
11	Ethyl methacrylate	69	2.068	2.079	(0.596)	329022	2.23375	8.9350
12	3-Chloropropionitrile	54	2.234	2.240	(0.644)	255043	2.22072	8.8829
13	Malononitrile	66	2.379	2.379	(0.686)	507831	2.33671	9.3468
209	Benzaldehyde	77	3.181	3.176	(0.917)	303704	2.58934	10.357
21	Aniline	93	3.245	3.245	(0.935)	621277	2.31395	9.2558
22	Phenol	94	3.202	3.186	(0.923)	542541	2.56583	10.263
23	bis(2-Chloroethyl)ether	93	3.267	3.261	(0.941)	516255	2.76614	11.064
24	2-Chlorophenol	128	3.331	3.331	(0.960)	425598	2.52669	10.107
26	1,3-Dichlorobenzene	146	3.438	3.432	(0.991)	423156	2.41395	9.6558
27	1,4-Dichlorobenzene	146	3.481	3.480	(1.003)	420310	2.43987	9.7595
28	1,2-Dichlorobenzene	146	3.593	3.587	(1.035)	409302	2.44294	9.7717
29	Benzyl Alcohol	108	3.550	3.539	(1.023)	285320	2.57840	10.314

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
30	2-Methylphenol	108	3.614	3.603	(1.042)	390511	2.65953	10.638
31	bis(2-Chloroisopropyl)ether	45	3.630	3.625	(1.046)	684502	2.31874	9.2750
37	Acetophenone	105	3.737	3.732	(1.077)	589887	2.52834	10.113
32	N-Nitroso-di-n-propylamine	70	3.721	3.721	(1.072)	321083	2.50439	10.018
192	4-Methylphenol	108	3.716	3.705	(1.071)	416675	2.80619	11.225
34	Hexachloroethane	117	3.828	3.828	(1.103)	109584	1.59918	6.3967(R)
35	Nitrobenzene	77	3.860	3.855	(0.884)	451206	2.38873	9.5549
41	Isophorone	82	4.021	4.015	(0.920)	887869	2.52197	10.088
42	2-Nitrophenol	139	4.085	4.079	(0.935)	242906	2.58616	10.345
43	2,4-Dimethylphenol	107	4.090	4.079	(0.936)	447485	2.80788	11.232
44	bis(2-Chloroethoxy)methane	93	4.149	4.144	(0.950)	521052	2.49435	9.9774
46	2,4-Toluenediamene	121	5.187	5.176	(1.187)	248688	3.21597	12.864
47	1,3,5-Trichlorobenzene	180	4.096	4.090	(0.938)	375648	2.55805	10.232
48	2,4-Dichlorophenol	162	4.256	4.245	(0.974)	340290	2.95975	11.839
49	Benzoic Acid	122	4.154	4.160	(0.951)	275073	3.17198	12.688(R)
50	1,2,4-Trichlorobenzene	180	4.320	4.315	(0.989)	370363	2.57821	10.313
51	Naphthalene	128	4.379	4.374	(1.002)	1313305	2.57672	10.307
52	4-Chloroaniline	127	4.400	4.395	(1.007)	564217	2.99400	11.976
56	Hexachlorobutadiene	225	4.459	4.454	(1.021)	187783	2.51561	10.062
210	Caprolactam	113	4.652	4.641	(1.065)	170767	2.93449	11.738
57	1,2,3-Trichlorobenzene	180	4.481	4.475	(1.026)	353456	2.65431	10.617
59	4-Chloro-3-Methylphenol	107	4.737	4.721	(1.084)	420862	2.85518	11.421
62	2-Methylnaphthalene	142	4.871	4.866	(1.115)	753873	2.73552	10.942
63	1-Methylnaphthalene	142	4.946	4.941	(1.132)	872039	2.70651	10.826
64	Hexachlorocyclopentadiene	237	4.989	4.983	(0.885)	56373	0.59508	2.3803(R)
66	2,4,6-Trichlorophenol	196	5.074	5.058	(0.900)	255605	2.66281	10.651
67	2,4,5-Trichlorophenol	196	5.106	5.090	(0.906)	280053	2.60315	10.413
211	1,1'-Biphenyl	154	5.203	5.197	(0.923)	1107767	2.38747	9.5499
68	1,2,3,5-Tetrachlorobenzene	216	4.989	4.978	(0.885)	365161	2.39317	9.5727
70	2-Chloronaphthalene	162	5.230	5.224	(0.928)	840360	2.50692	10.028
73	2-Nitroaniline	65	5.288	5.278	(0.938)	286645	2.45177	9.8071
74	1,2,3,4-Tetrachlorobenzene	216	5.203	5.197	(0.923)	345186	2.49778	9.9911
76	Dimethylphthalate	163	5.401	5.395	(0.958)	998318	2.56171	10.247
78	2,6-Dinitrotoluene	165	5.449	5.443	(0.967)	234400	2.59694	10.388
79	Acenaphthylene	152	5.534	5.529	(0.982)	1424972	2.57057	10.282
80	1,2-Dinitrobenzene	168	5.497	5.492	(0.975)	114987	2.58061	10.322
81	3-Nitroaniline	138	5.583	5.572	(0.991)	265126	2.52885	10.115
82	Acenaphthene	153	5.657	5.652	(1.004)	903237	2.45772	9.8309
83	2,4-Dinitrophenol	184	5.657	5.647	(1.004)	293352	4.55151	18.206(Q)
85	4-Nitrophenol	109	5.700	5.673	(1.011)	135729	2.95805	11.832
86	Dibenzofuran	168	5.780	5.775	(1.026)	1221009	2.53548	10.142
87	2,4-Dinitrotoluene	165	5.748	5.738	(1.020)	327216	2.63425	10.537
91	2,3,5,6-Tetrachlorophenol	232	5.839	5.823	(1.036)	238691	2.60951	10.438
93	Diethylphthalate	149	5.903	5.898	(1.047)	1040079	2.55162	10.206
94	Fluorene	166	6.032	6.026	(1.070)	1043933	2.52152	10.086
95	4-Chlorophenyl-phenylether	204	6.010	6.005	(1.066)	464420	2.53678	10.147
96	4-Nitroaniline	138	6.032	6.021	(1.070)	308182	2.85625	11.425
98	4,6-Dinitro-2-methylphenol	198	6.048	6.037	(0.900)	177153	2.06876	8.2750
99	N-Nitrosodiphenylamine	169	6.096	6.085	(0.907)	784318	2.40122	9.6049
100	1,2-Diphenylhydrazine	77	6.128	6.123	(0.912)	1107730	2.26477	9.0591
106	4-Bromophenyl-phenylether	248	6.369	6.363	(0.947)	279774	2.42514	9.7006
107	Hexachlorobenzene	284	6.444	6.433	(0.959)	276637	2.47366	9.8946
212	Atrazine	200	6.465	6.454	(0.962)	200558	2.72157	10.886
111	Pentachlorophenol	266	6.577	6.567	(0.979)	345603	4.38142	17.526

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
115 Phenanthrene	178	6.738	6.727	(1.002)	1578563	2.49721	9.9888
116 Anthracene	178	6.775	6.765	(1.008)	1619881	2.54433	10.177
119 Carbazole	167	6.882	6.866	(1.024)	1525496	2.50541	10.022
120 Di-n-Butylphthalate	149	7.085	7.075	(1.054)	1907634	2.72665	10.907
123 Fluoranthene	202	7.610	7.599	(1.132)	1710506	2.67146	10.686
124 Benzidine	184	7.679	7.663	(0.885)	937634	2.25073	9.0029
125 Pyrene	202	7.781	7.770	(0.896)	1848332	2.52391	10.096
131 Butylbenzylphthalate	149	8.187	8.182	(0.943)	913414	2.53988	10.160
133 3,3'-Dimethoxybenzidine	244	8.583	8.572	(0.989)	417244	2.74664	10.986
135 3,3'-Dichlorobenzidine	252	8.626	8.610	(0.994)	661441	2.47600	9.9040
136 Benzo(a)Anthracene	228	8.669	8.653	(0.999)	1904100	2.59320	10.373
137 Chrysene	228	8.701	8.685	(1.002)	1787888	2.61910	10.476
138 4,4'-Methylene bis(o-chloroan	231	8.615	8.604	(0.993)	346723	2.50953	10.038
139 bis(2-ethylhexyl)Phthalate	149	8.594	8.588	(0.990)	1322242	2.58387	10.335
140 Di-n-octylphthalate	149	9.113	9.107	(0.906)	2367084	2.78422	11.137
141 Benzo(b)fluoranthene	252	9.631	9.610	(0.957)	1850424	2.59418	10.377
142 Benzo(k)fluoranthene	252	9.658	9.637	(0.960)	1982010	2.51453	10.058
146 Benzo(a)pyrene	252	9.995	9.968	(0.994)	1755758	2.57636	10.305
149 Indeno(1,2,3-cd)pyrene	276	11.546	11.503	(1.148)	1994297	2.62544	10.502
150 Dibenz(a,h)anthracene	278	11.552	11.509	(1.148)	1721378	2.71915	10.877
151 Benzo(g,h,i)perylene	276	12.001	11.953	(1.193)	1606298	2.58790	10.352
198 1,4-Dioxane	88	1.667	1.683	(0.481)	112522	1.77264	7.0906
101 Diphenylamine	169	6.096	6.085	(0.907)	784318	2.40122	9.6049

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

QKMW 3/3/10

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\MDLL1.D
Lab Smp Id: mdll1
Inj Date : 02-MAR-2010 17:16
Operator : 001710 Inst ID: a4hp7.i
Smp Info : mdll1,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:34 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 25 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	237360	2.00000	(Q)
* 2 Naphthalene-d8	136	4.363	4.358	(1.000)	1011066	2.00000	
* 3 Acenaphthene-d10	164	5.636	5.625	(1.000)	578801	2.00000	
* 4 Phenanthrene-d10	188	6.722	6.711	(1.000)	979186	2.00000	
* 5 Chrysene-d12	240	8.669	8.663	(1.000)	1217821	2.00000	
* 6 Perylene-d12	264	10.049	10.027	(1.000)	1180577	2.00000	
9 Pyridine	79	1.876	1.876	(0.541)	4679	0.03068	0.030683
10 N-Nitrosodimethylamine	74	1.838	1.844	(0.530)	3110	0.03535	0.035346(QM)
11 Ethyl methacrylate	69	2.068	2.079	(0.596)	5553	0.04171	0.041706(M)
12 3-Chloropropionitrile	54	2.234	2.240	(0.644)	4516	0.04350	0.043500
13 Malononitrile	66	2.379	2.379	(0.686)	8644	0.04400	0.044000
209 Benzaldehyde	77	3.181	3.176	(0.917)	5269	0.07431	0.074310(Q)
21 Aniline	93	3.245	3.245	(0.935)	10842	0.04467	0.044672
22 Phenol	94	3.202	3.186	(0.923)	9520	0.04981	0.049807
23 bis(2-Chloroethyl)ether	93	3.261	3.261	(0.940)	9446	0.05599	0.055991
24 2-Chlorophenol	128	3.331	3.331	(0.960)	8392	0.05512	0.055116
26 1,3-Dichlorobenzene	146	3.438	3.432	(0.991)	7842	0.04949	0.049489
27 1,4-Dichlorobenzene	146	3.480	3.480	(1.003)	8018	0.05149	0.051490(QM)
28 1,2-Dichlorobenzene	146	3.593	3.587	(1.035)	7368	0.04865	0.048649
29 Benzyl Alcohol	108	3.545	3.539	(1.022)	4961	0.04960	0.049596
30 2-Methylphenol	108	3.614	3.603	(1.042)	6630	0.04995	0.049951(QM)
31 bis(2-Chloroisopropyl)ether	45	3.630	3.625	(1.046)	12560	0.04707	0.047068
37 Acetophenone	105	3.737	3.732	(1.077)	10584	0.05019	0.050185
32 N-Nitroso-di-n-propylamine	70	3.721	3.721	(1.072)	5574	0.04810	0.048096
192 4-Methylphenol	108	3.716	3.705	(1.071)	5854	0.16155	0.16155
34 Hexachloroethane	117	3.828	3.828	(1.103)	1359	0.02194	0.021939(M)
35 Nitrobenzene	77	3.860	3.855	(0.885)	7482	0.04490	0.044903
41 Isophorone	82	4.021	4.015	(0.922)	15177	0.04887	0.048870
42 2-Nitrophenol	139	4.085	4.079	(0.936)	4575	0.05522	0.055217
43 2,4-Dimethylphenol	107	4.090	4.079	(0.937)	6938	0.16280	0.16280
44 bis(2-Chloroethoxy)methane	93	4.149	4.144	(0.951)	9044	0.04908	0.049080
46 2,4-Toluenediamene	121	5.192	5.176	(1.190)	6223	0.09123	0.091227(QM)
47 1,3,5-Trichlorobenzene	180	4.096	4.090	(0.939)	6488	0.05008	0.050085

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48	2,4-Dichlorophenol	162	4.261	4.245	(0.977)	4191	0.27214	0.27214
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.315	4.315	(0.989)	6938	0.05475	0.054751
51	Naphthalene	128	4.379	4.374	(1.004)	24104	0.05361	0.053611
52	4-Chloroaniline	127	4.400	4.395	(1.009)	8318	0.05004	0.050037
56	Hexachlorobutadiene	225	4.459	4.454	(1.022)	3241	0.04922	0.049219
210	Caprolactam	113	4.646	4.641	(1.065)	1528	0.02977	0.029766(Q)
57	1,2,3-Trichlorobenzene	180	4.481	4.475	(1.027)	6370	0.05423	0.054228
59	4-Chloro-3-Methylphenol	107	4.743	4.721	(1.087)	6675	0.05133	0.051335
62	2-Methylnaphthalene	142	4.871	4.866	(1.116)	12768	0.05252	0.052520
63	1-Methylnaphthalene	142	4.946	4.941	(1.134)	15672	0.05514	0.055140
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	5.074	5.058	(0.900)	4077	0.04909	0.049086
67	2,4,5-Trichlorophenol	196	5.112	5.090	(0.907)	5064	0.05440	0.054400(M)
211	1,1'-Biphenyl	154	5.203	5.197	(0.923)	19125	0.04764	0.047636
68	1,2,3,5-Tetrachlorobenzene	216	4.983	4.978	(0.884)	7057	0.05345	0.053451
70	2-Chloronaphthalene	162	5.229	5.224	(0.928)	15007	0.05174	0.051738
73	2-Nitroaniline	65	5.294	5.278	(0.939)	4431	0.04380	0.043801
74	1,2,3,4-Tetrachlorobenzene	216	5.203	5.197	(0.923)	6521	0.05453	0.054533
76	Dimethylphthalate	163	5.395	5.395	(0.957)	17438	0.05171	0.051713
78	2,6-Dinitrotoluene	165	5.449	5.443	(0.967)	3474	0.04448	0.044481(M)
79	Acenaphthylene	152	5.534	5.529	(0.982)	24121	0.05029	0.050288
80	1,2-Dinitrobenzene	168	5.502	5.492	(0.976)	1790	0.04643	0.046427(Q)
81	3-Nitroaniline	138	5.593	5.572	(0.992)	3865	0.04261	0.042605(M)
82	Acenaphthene	153	5.657	5.652	(1.004)	15590	0.04903	0.049025(Q)
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.780	5.775	(1.026)	21695	0.05206	0.052065
87	2,4-Dinitrotoluene	165	5.748	5.738	(1.020)	4226	0.03932	0.039318
91	2,3,5,6-Tetrachlorophenol	232	5.845	5.823	(1.037)	4264	0.05387	0.053874
93	Diethylphthalate	149	5.903	5.898	(1.047)	19850	0.05628	0.056280
94	Fluorene	166	6.032	6.026	(1.070)	18683	0.05215	0.052153
95	4-Chlorophenyl-phenylether	204	6.010	6.005	(1.066)	8934	0.05640	0.056398
96	4-Nitroaniline	138	6.042	6.021	(1.072)	4008	0.04293	0.042930(M)
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	6.096	6.085	(0.907)	13381	0.04895	0.048953
100	1,2-Diphenylhydrazine	77	6.128	6.123	(0.912)	18286	0.04467	0.044675
106	4-Bromophenyl-phenylether	248	6.369	6.363	(0.947)	4831	0.05004	0.050040
107	Hexachlorobenzene	284	6.438	6.433	(0.958)	5174	0.05529	0.055285
212	Atrazine	200	6.460	6.454	(0.961)	3716	0.06026	0.060257
111	Pentachlorophenol	266	6.583	6.567	(0.979)	3772	0.39434	0.39434
115	Phenanthrene	178	6.738	6.727	(1.002)	26835	0.05073	0.050728
116	Anthracene	178	6.775	6.765	(1.008)	26548	0.04983	0.049828
119	Carbazole	167	6.882	6.866	(1.024)	27210	0.05340	0.053401
120	Di-n-Butylphthalate	149	7.085	7.075	(1.054)	40490	0.06916	0.069157
123	Fluoranthene	202	7.610	7.599	(1.132)	30512	0.05694	0.056944
124	Benzidine	184	7.679	7.663	(0.886)	10226	0.02998	0.029982
125	Pyrene	202	7.781	7.770	(0.898)	31917	0.05323	0.053233
131	Butylbenzylphthalate	149	8.182	8.182	(0.944)	17815	0.06051	0.060506
133	3,3'-Dimethoxybenzidine	244	8.578	8.572	(0.990)	8721	0.07012	0.070120
135	3,3'-Dichlorobenzidine	252	8.615	8.610	(0.994)	11780	0.05386	0.053861
136	Benzo(a)Anthracene	228	8.658	8.653	(0.999)	36620	0.06092	0.060916
137	Chrysene	228	8.685	8.685	(1.002)	30810	0.05513	0.055128
138	4,4'-Methylene bis(o-chloroan	231	8.604	8.604	(0.993)	7057	0.06239	0.062387

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.588	8.588	(0.991)	27968	0.06676	0.066756
140 Di-n-octylphthalate	149	9.102	9.107	(0.906)	43553	0.06144	0.061436 (QM)
141 Benzo(b)fluoranthene	252	9.615	9.610	(0.957)	35093	0.05900	0.059002 (H)
142 Benzo(k)fluoranthene	252	9.642	9.637	(0.960)	33477	0.05093	0.050935
146 Benzo(a)pyrene	252	9.979	9.968	(0.993)	31582	0.05558	0.055577
149 Indeno(1,2,3-cd)pyrene	276	11.519	11.503	(1.146)	35229	0.05562	0.055620
150 Dibenz(a,h)anthracene	278	11.530	11.509	(1.147)	30608	0.05798	0.057984
151 Benzo(g,h,i)perylene	276	11.979	11.953	(1.192)	29008	0.05605	0.056048 (M)
198 1,4-Dioxane	88	1.667	1.683	(0.481)	2428	0.04231	0.042315
101 Diphenylamine	169	6.096	6.085	(0.907)	13381	0.04895	0.048953

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: MDLL1.D
Lab Smp Id: mdll1
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	237360	-24.51
2 Naphthalene-d8	1302947	651474	2605894	1011066	-22.40
3 Acenaphthene-d10	667302	333651	1334604	578801	-13.26
4 Phenanthrene-d10	1052286	526143	2104572	979186	-6.95
5 Chrysene-d12	1252372	626186	2504744	1217821	-2.76
6 Perylene-d12	1122003	561002	2244006	1180577	5.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	0.00
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.12
3 Acenaphthene-d10	5.63	5.13	6.13	5.64	0.19
4 Phenanthrene-d10	6.71	6.21	7.21	6.72	0.16
5 Chrysene-d12	8.66	8.16	9.16	8.67	0.06
6 Perylene-d12	10.03	9.53	10.53	10.05	0.21

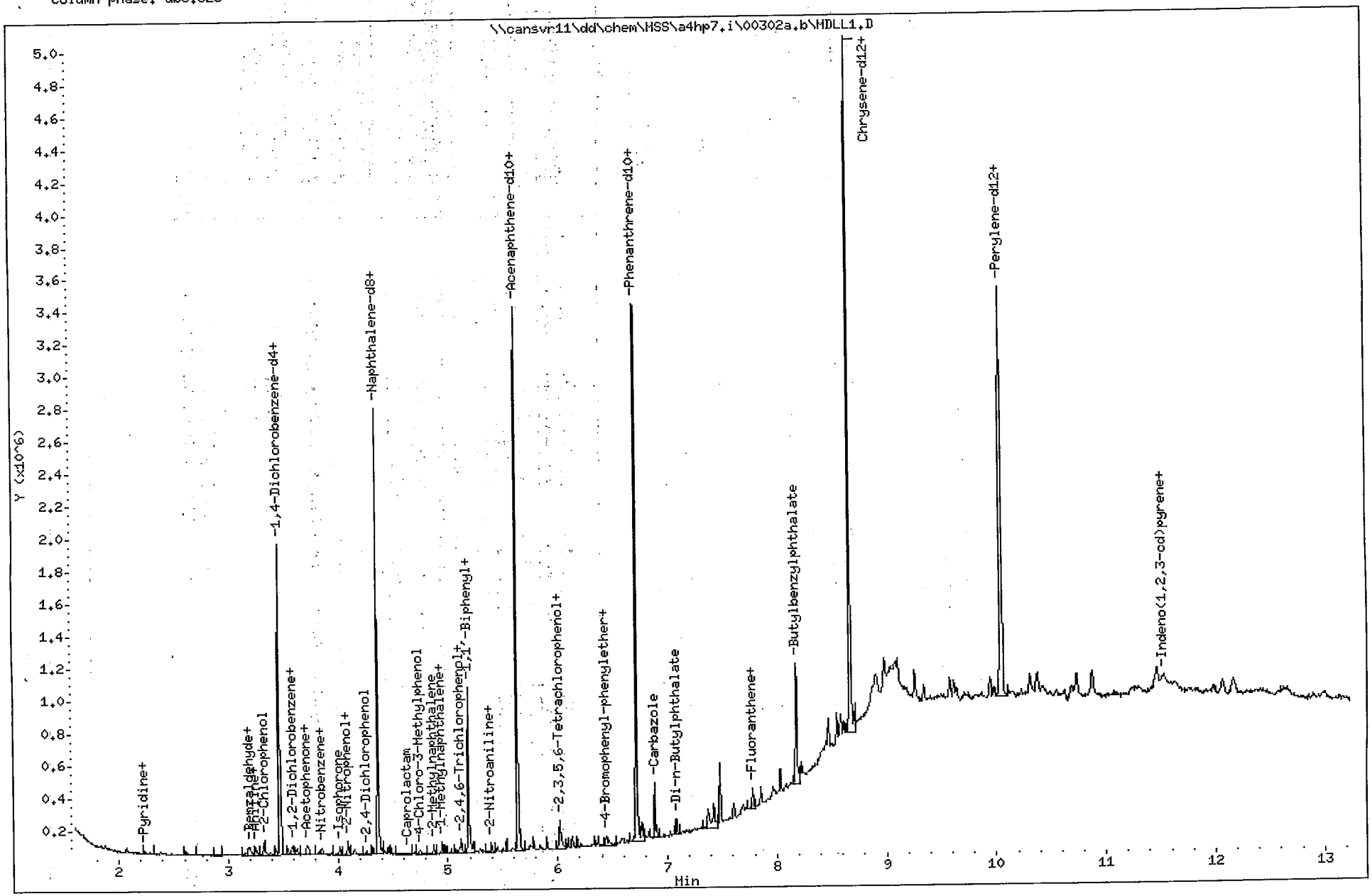
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\MDLL1.D
Date : 02-MAR-2010 17:16
Client ID:
Sample Info: md111,00302a.b,8270C-625,1-827042d.sub

Instrument: a4hp7.i

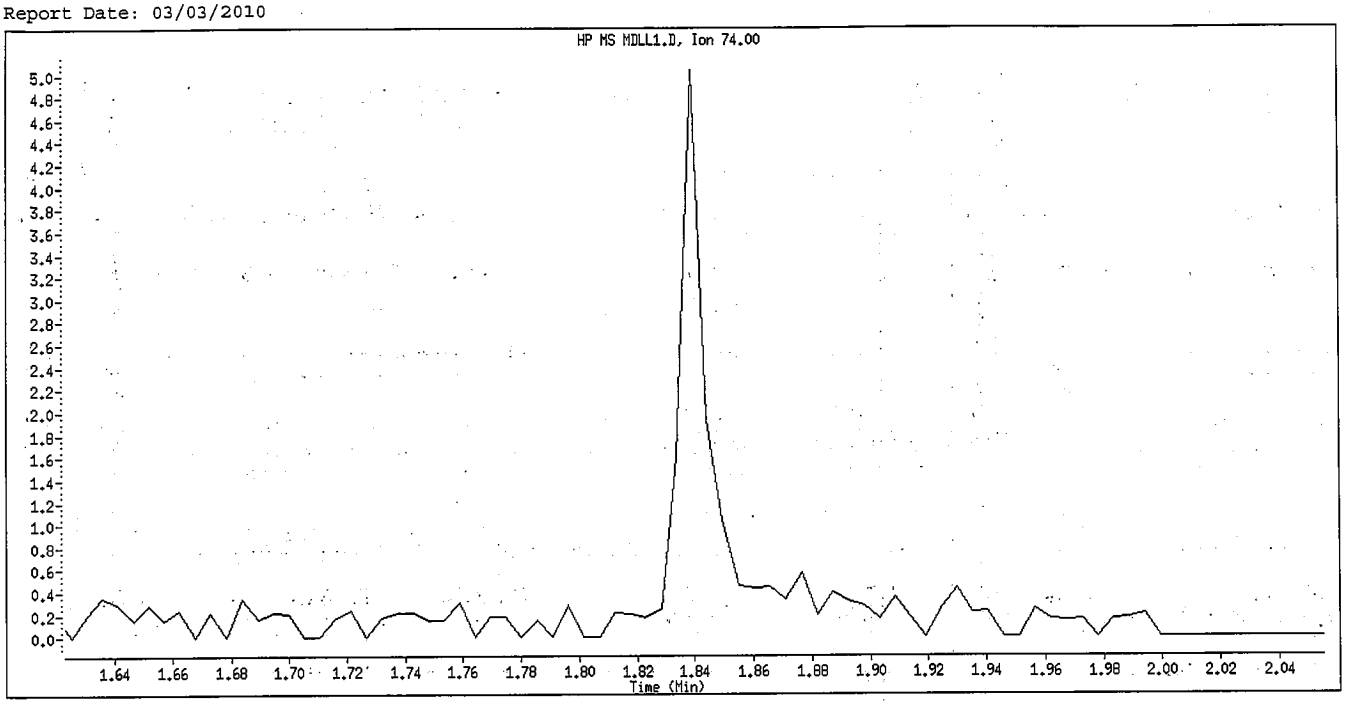
Operator: 001710
Column diameter: 0.32

Column phase: db5.625

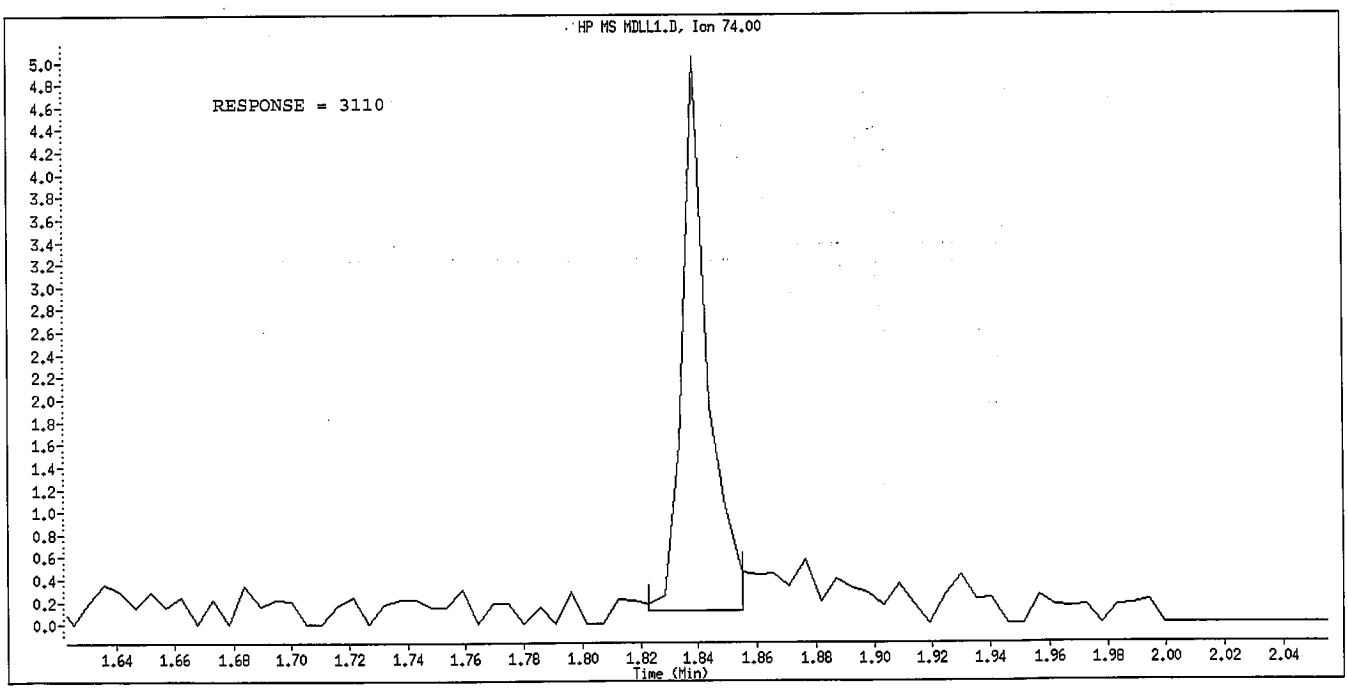


North Canton

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 03/03/2010



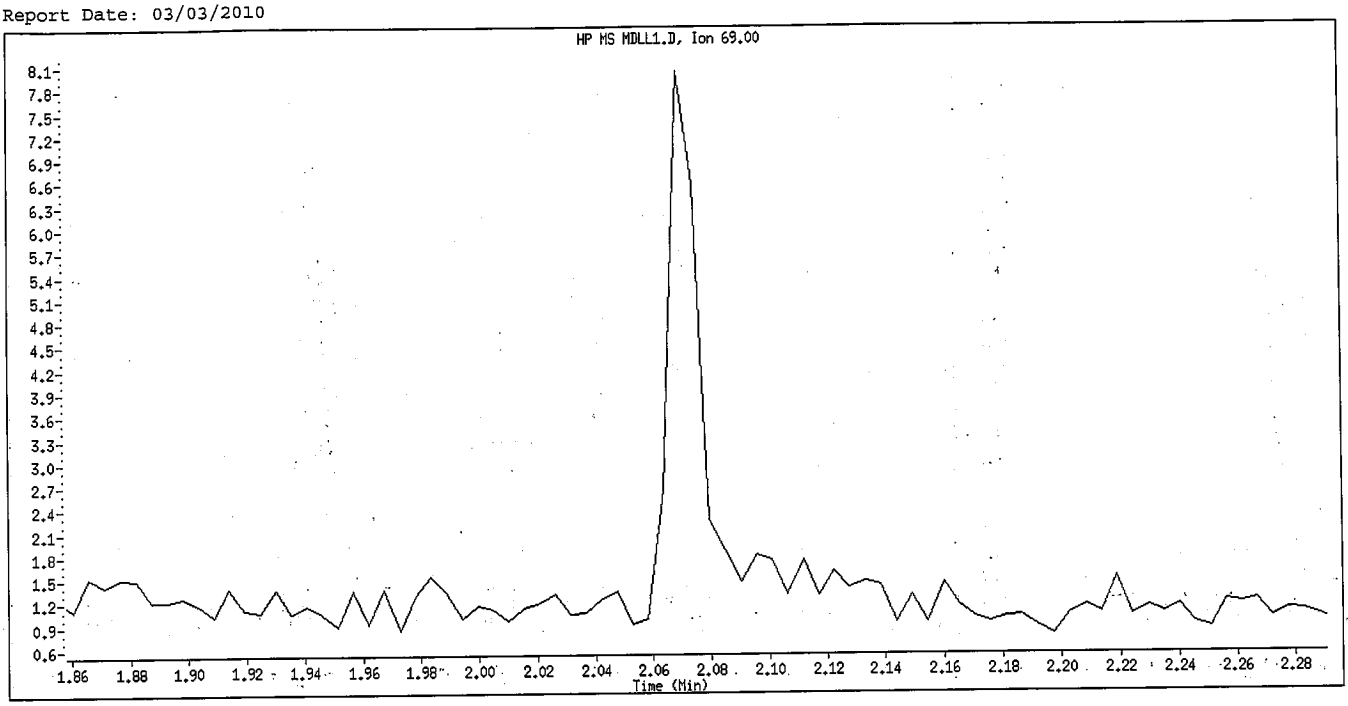
Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: Ethyl methacrylate
CAS #: 97-63-2
Report Date: 03/03/2010



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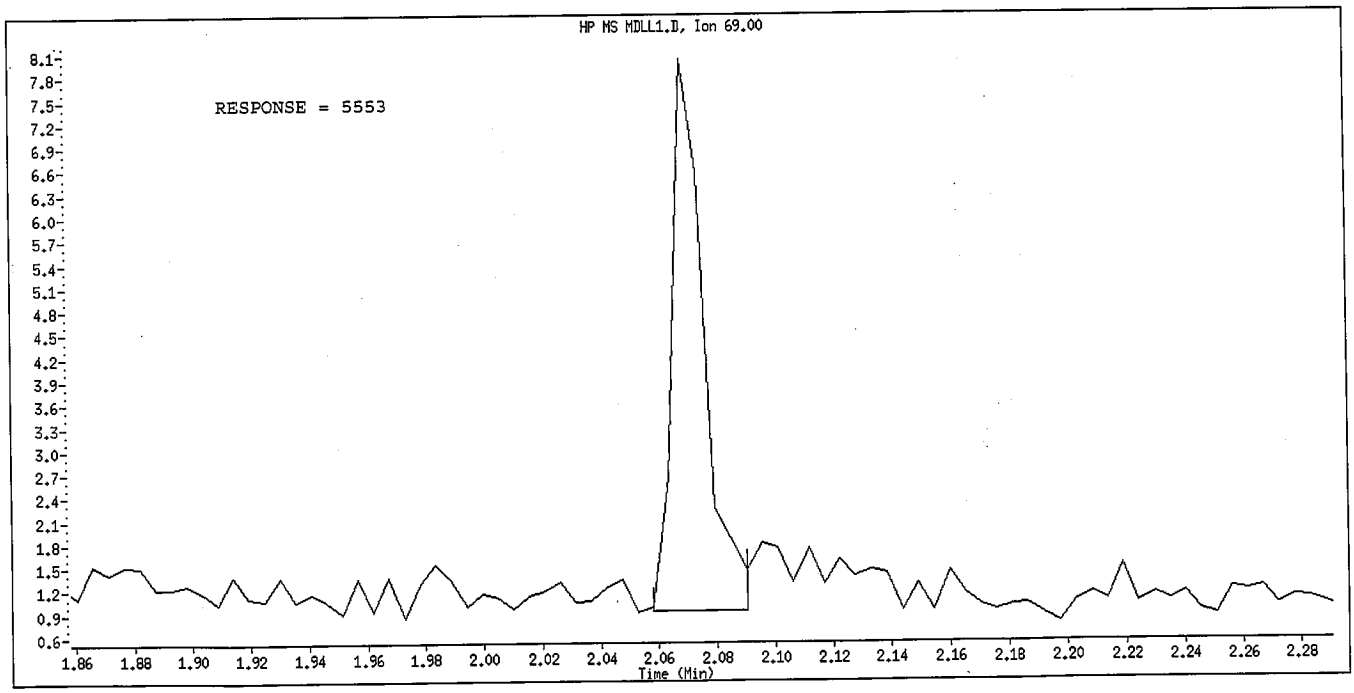
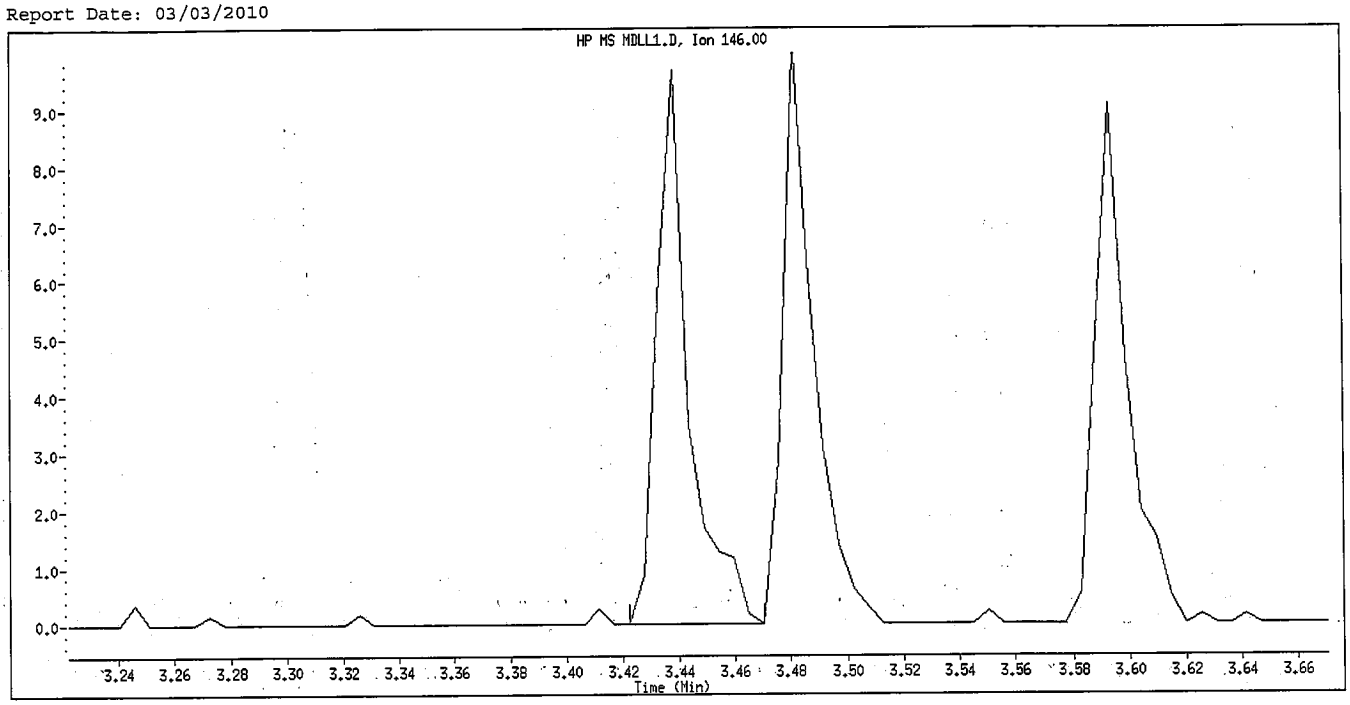


Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: 1,4-Dichlorobenzene
CAS #: 106-46-7
Report Date: 03/03/2010



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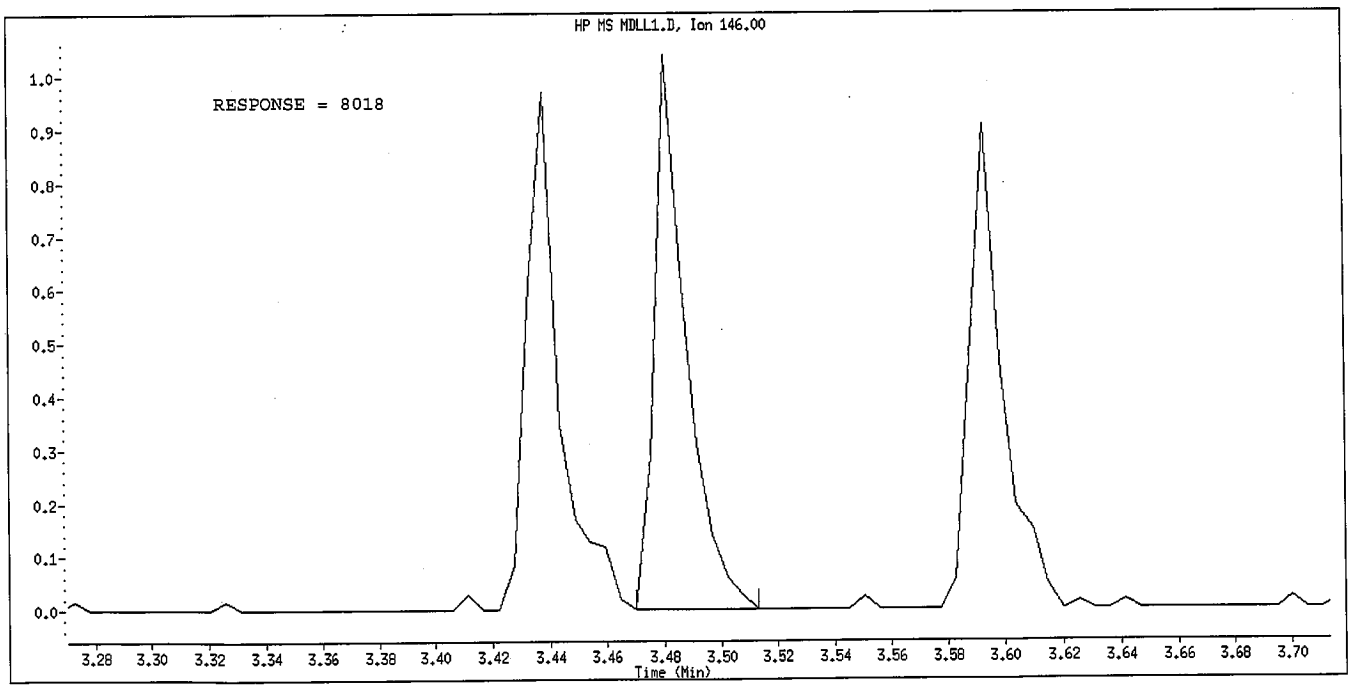
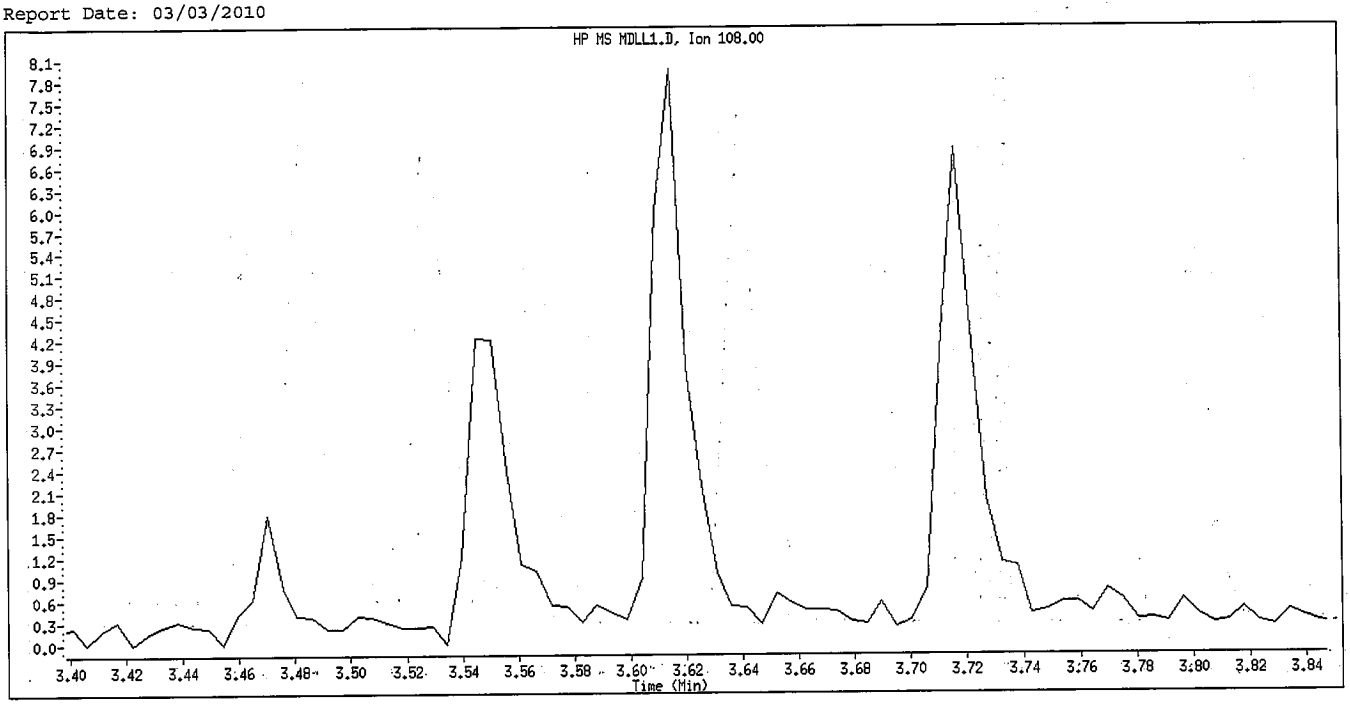


Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: 2-Methylphenol
CAS #: 95-48-7
Report Date: 03/03/2010



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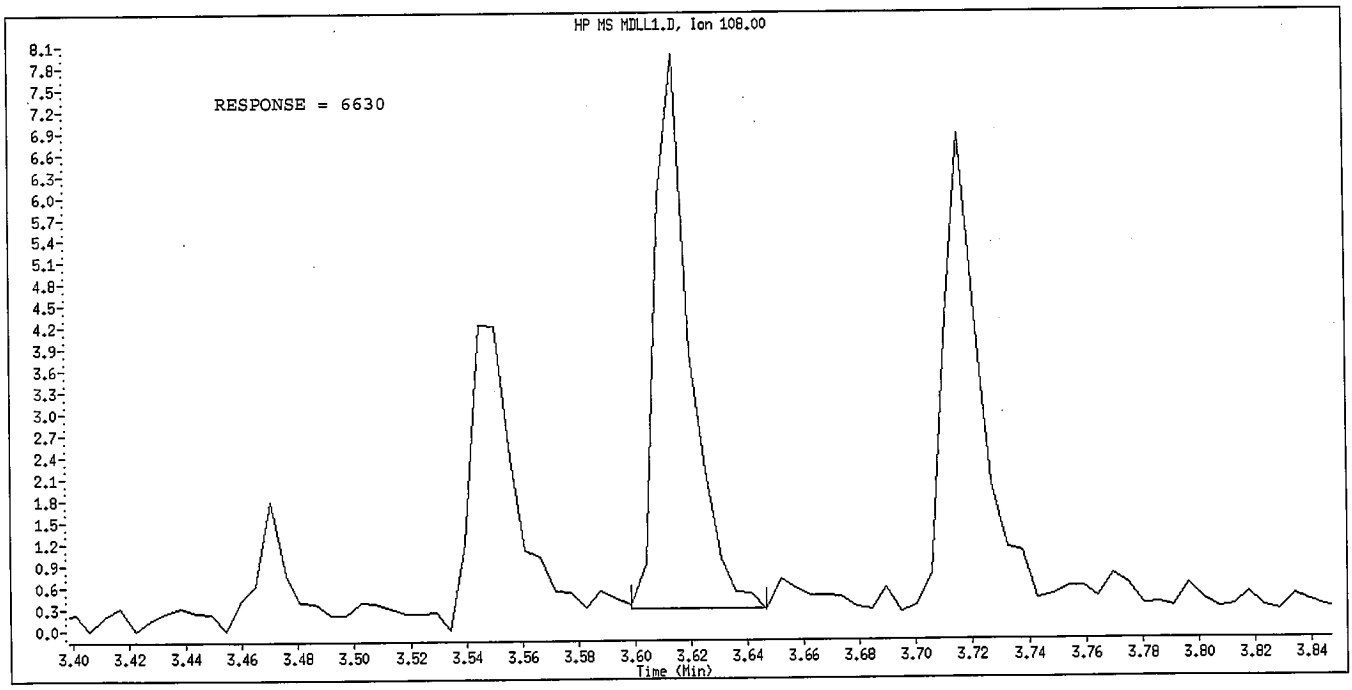
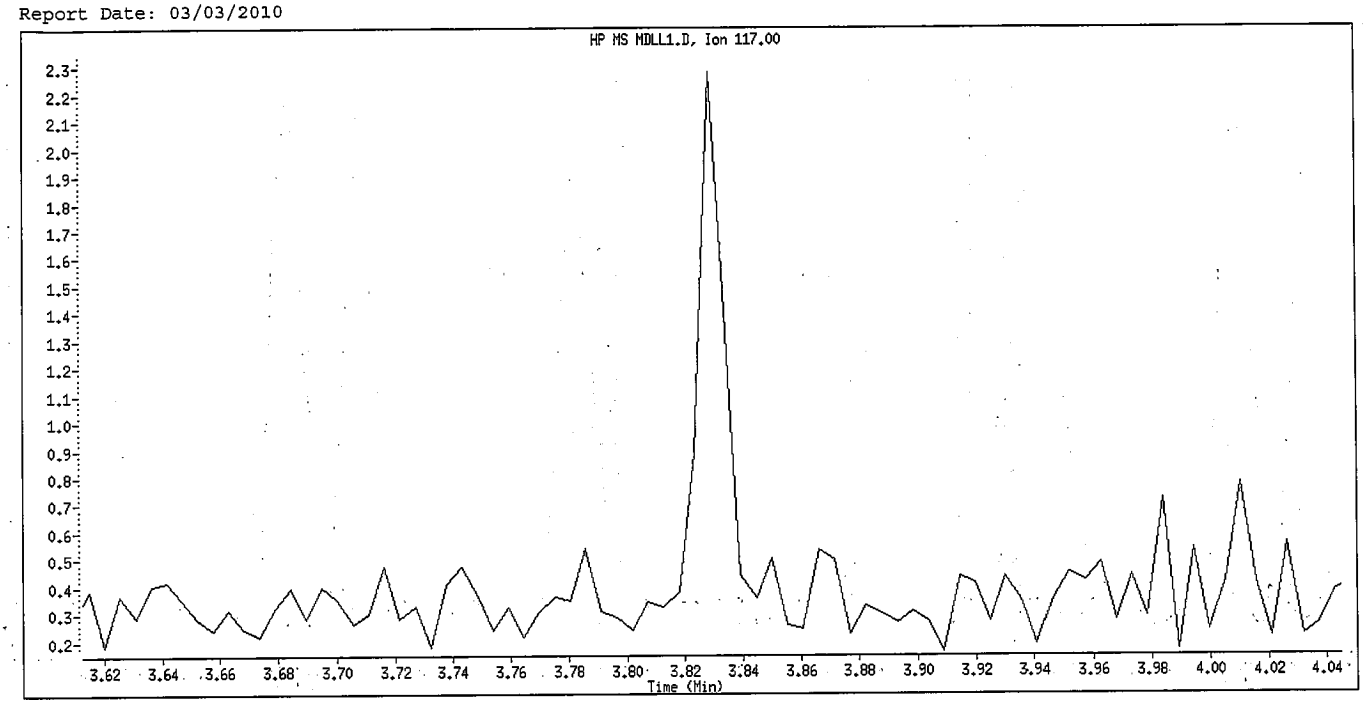


Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: Hexachloroethane
CAS #: 67-72-1
Report Date: 03/03/2010



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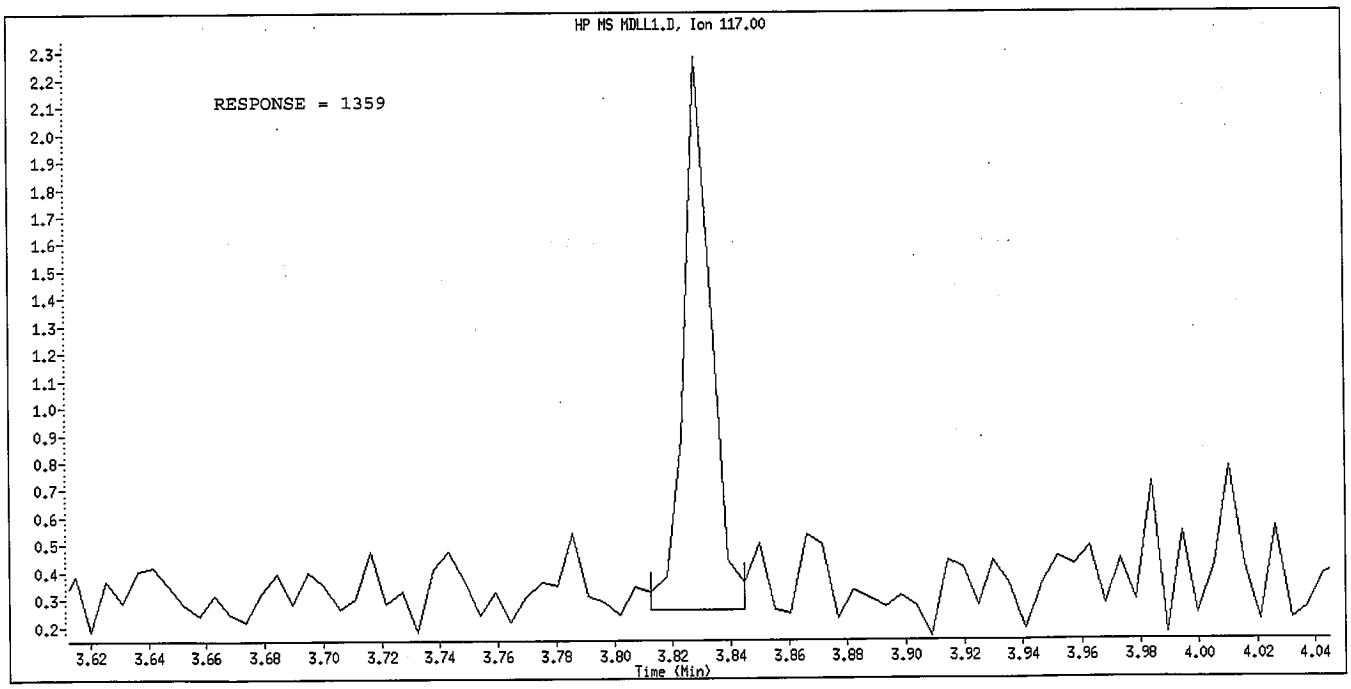
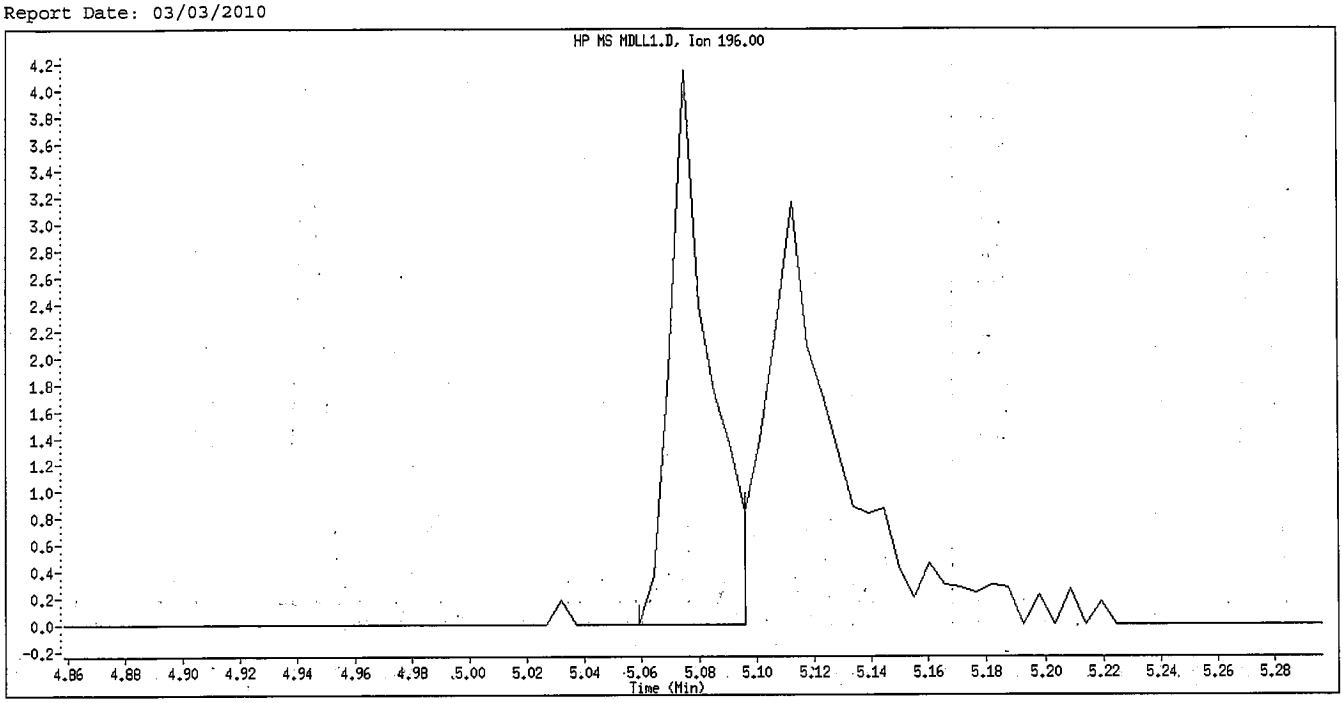


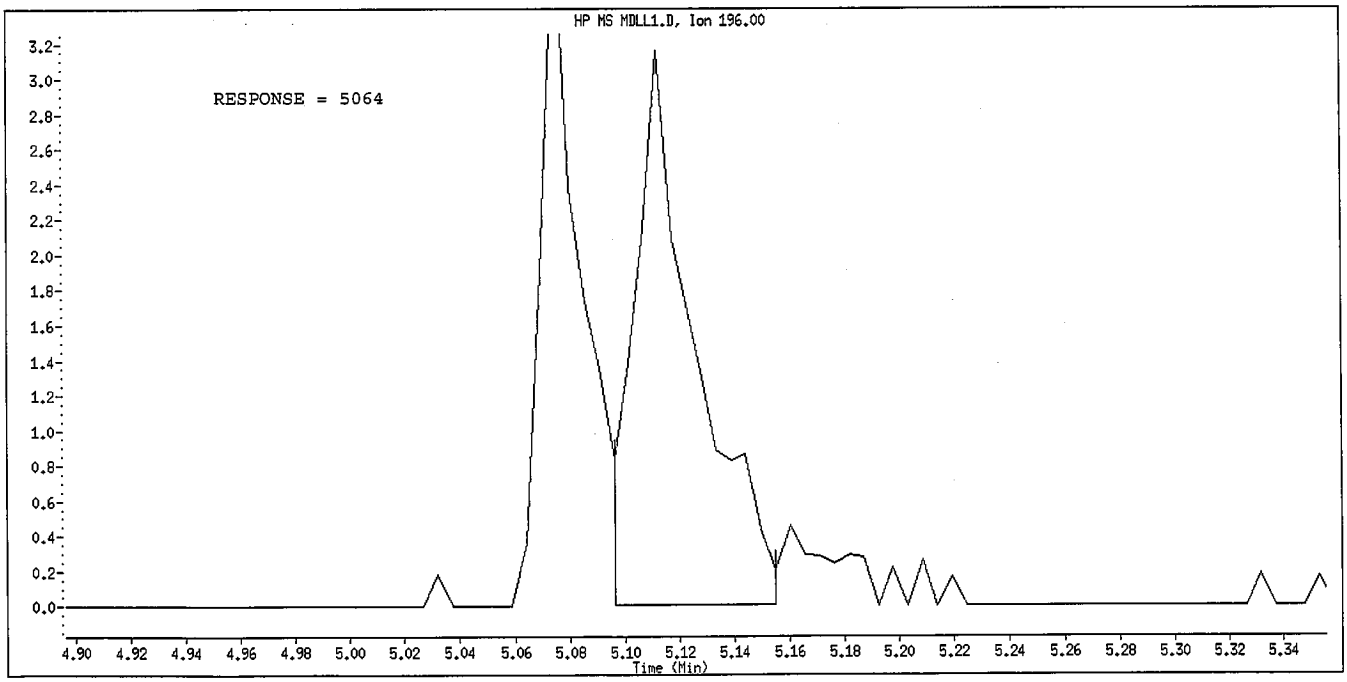
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 03/03/2010



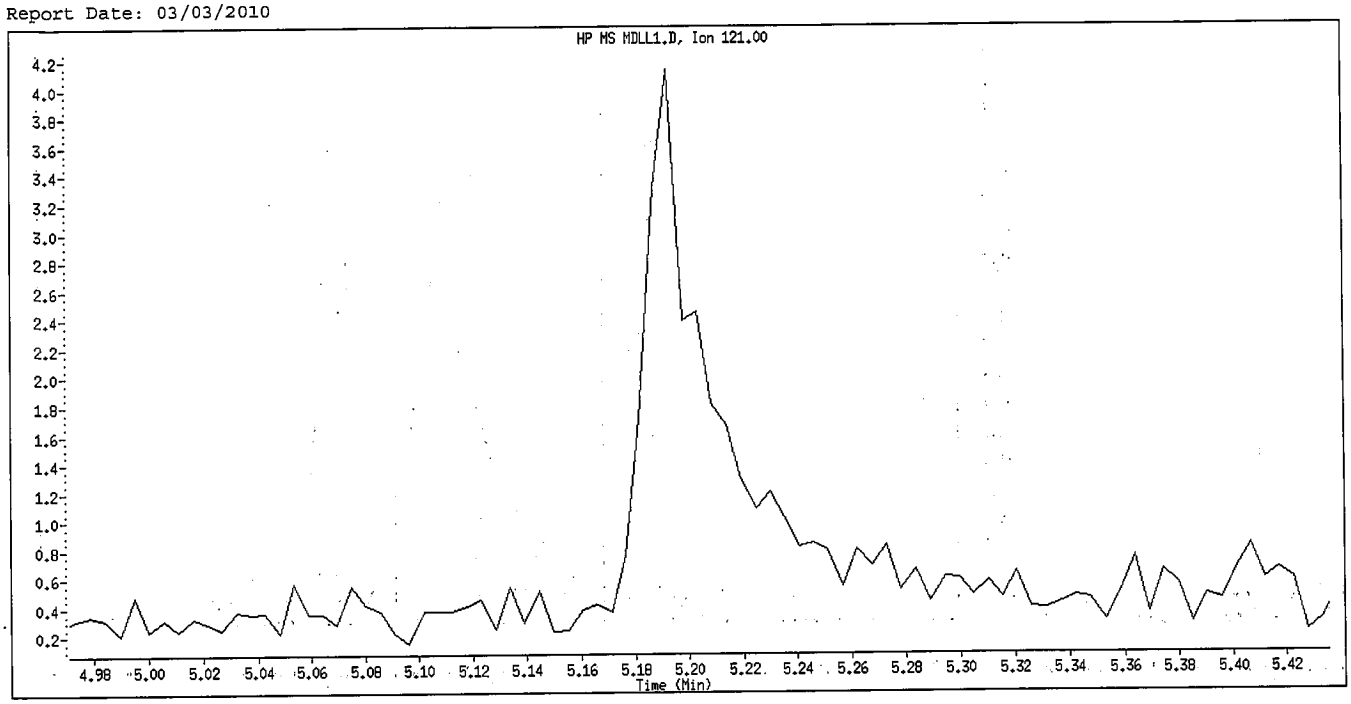
Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: 2,4-Toluenediamene
CAS #: 95-80-7
Report Date: 03/03/2010



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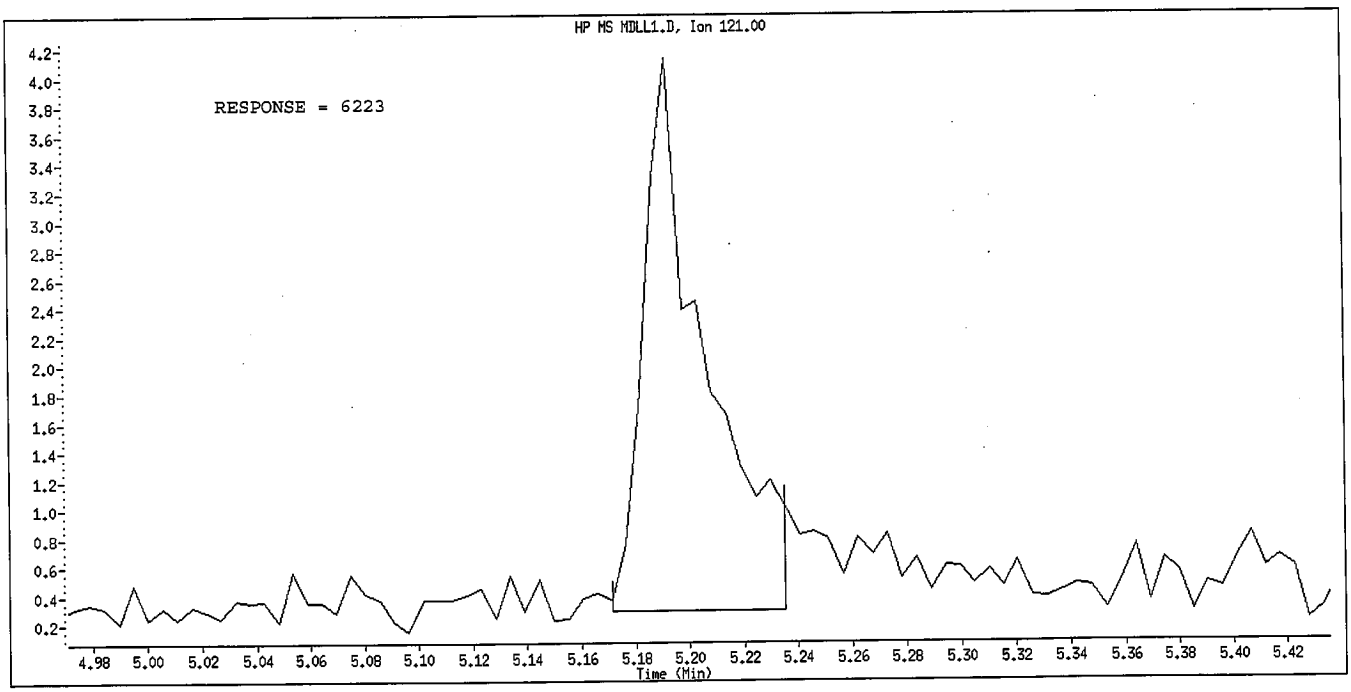
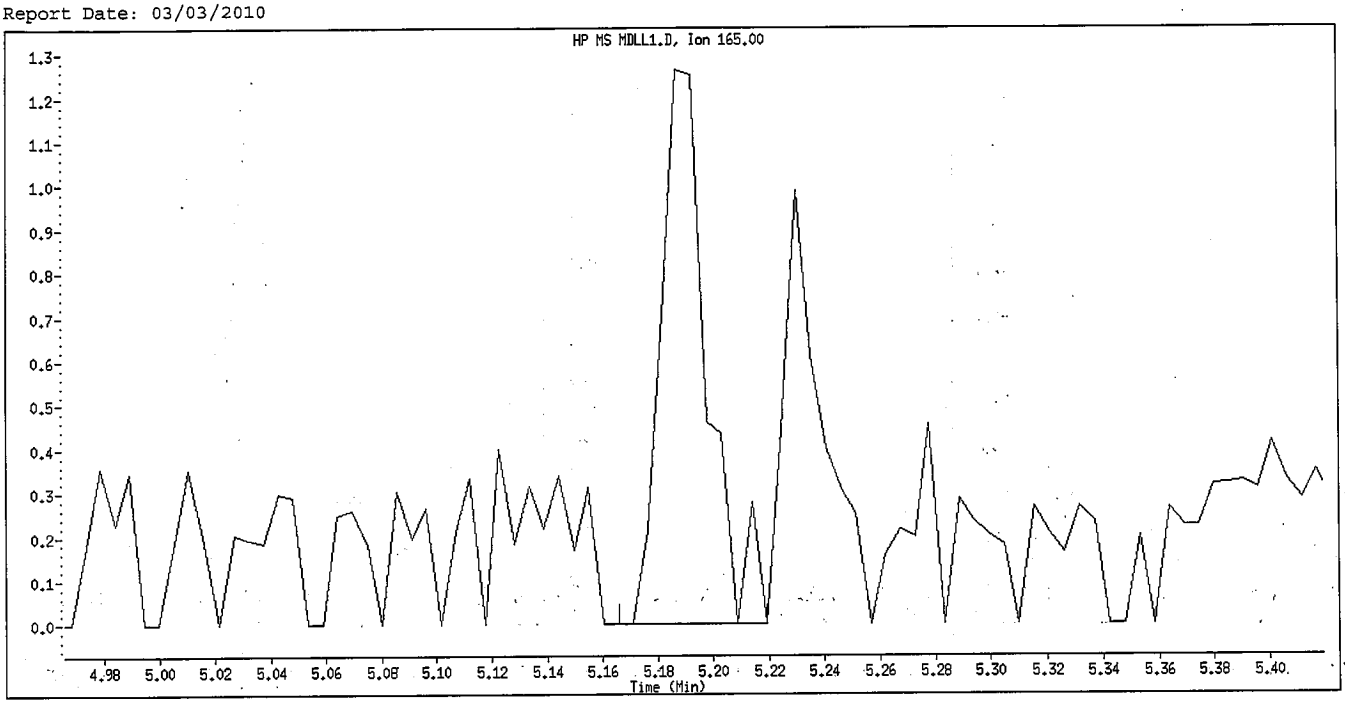


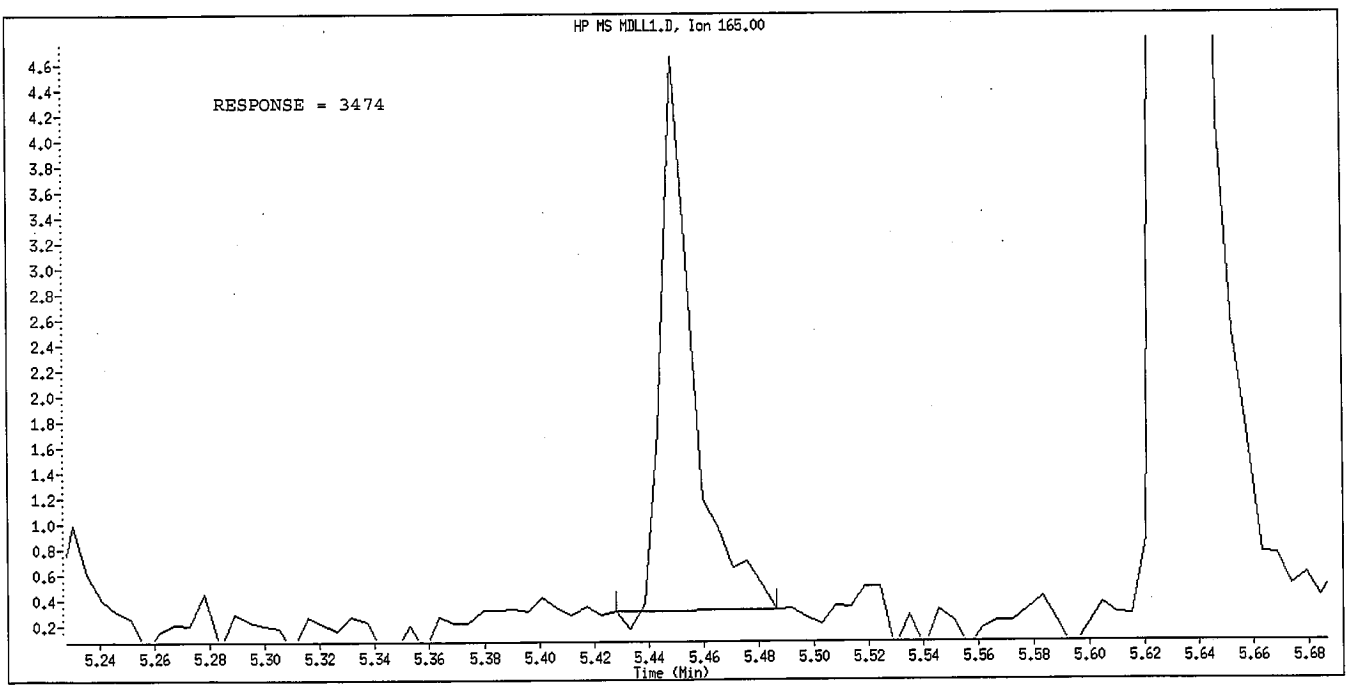
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 03/03/2010



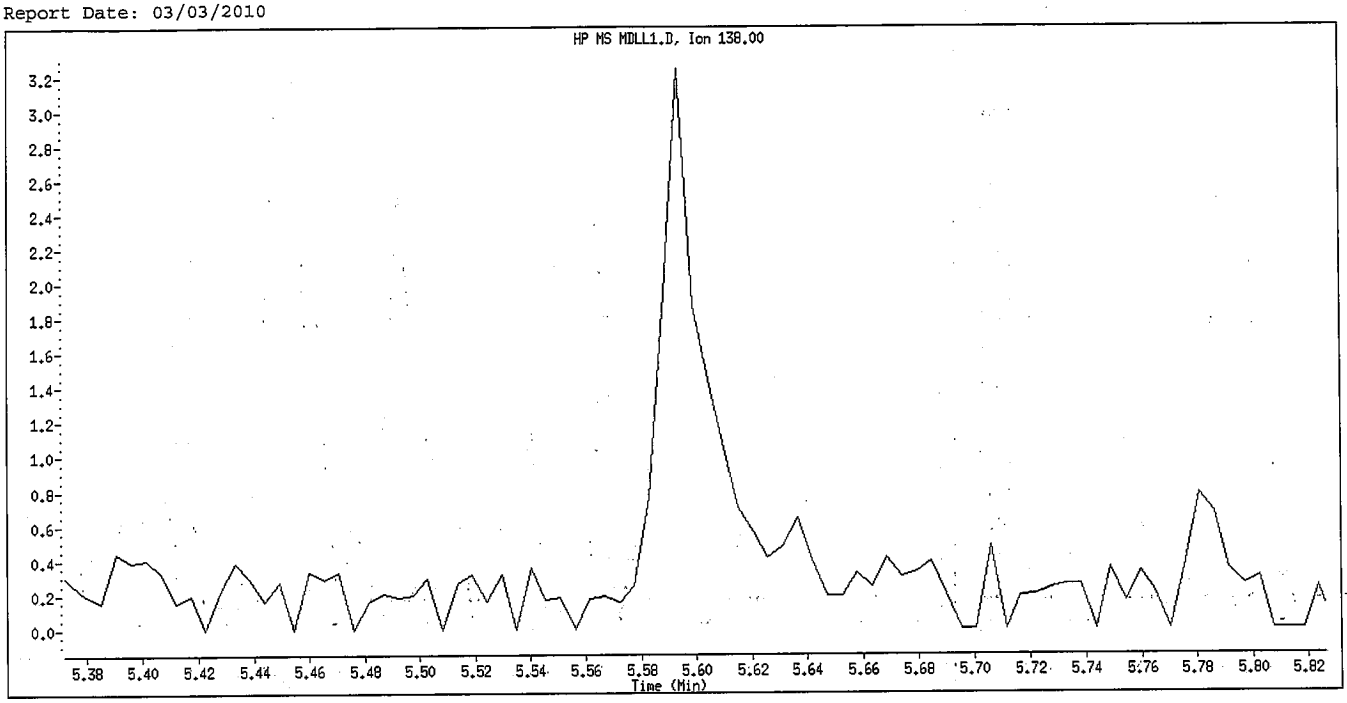
Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: 3-Nitroaniline
CAS #: 99-09-2
Report Date: 03/03/2010



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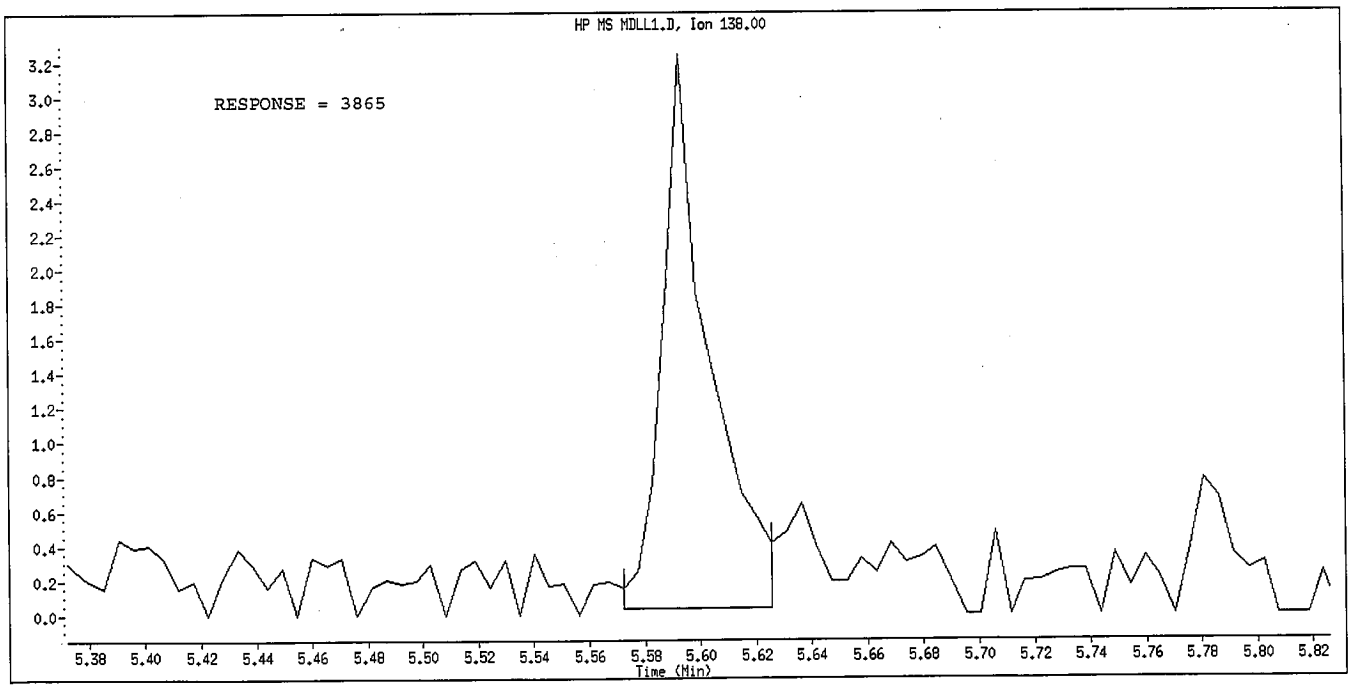
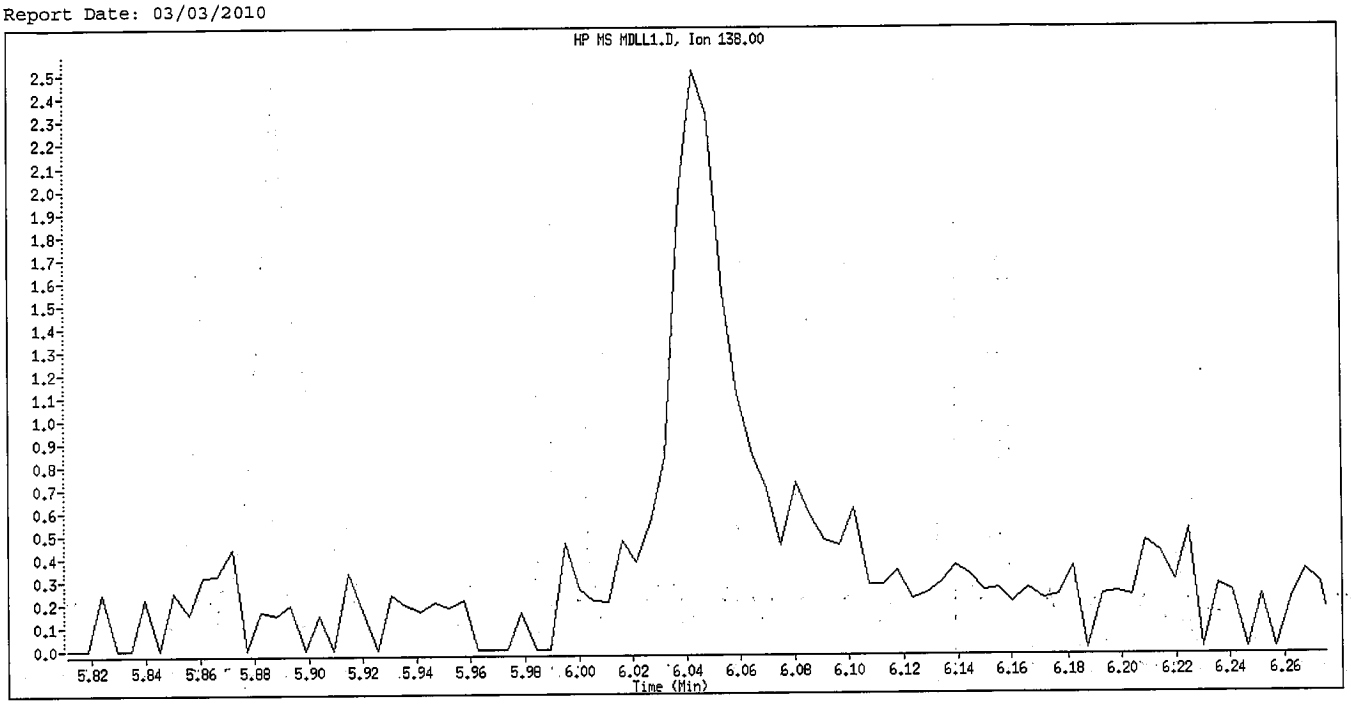


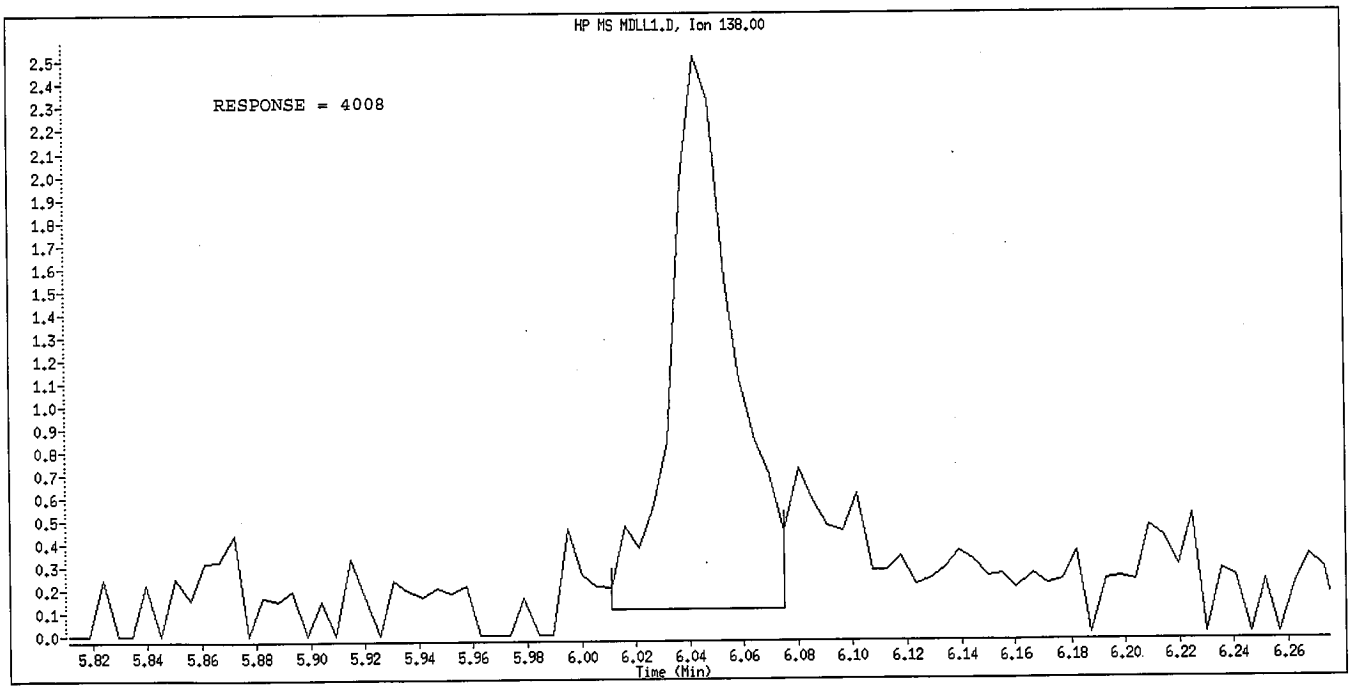
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4-Nitroaniline
CAS #: 100-01-6
Report Date: 03/03/2010



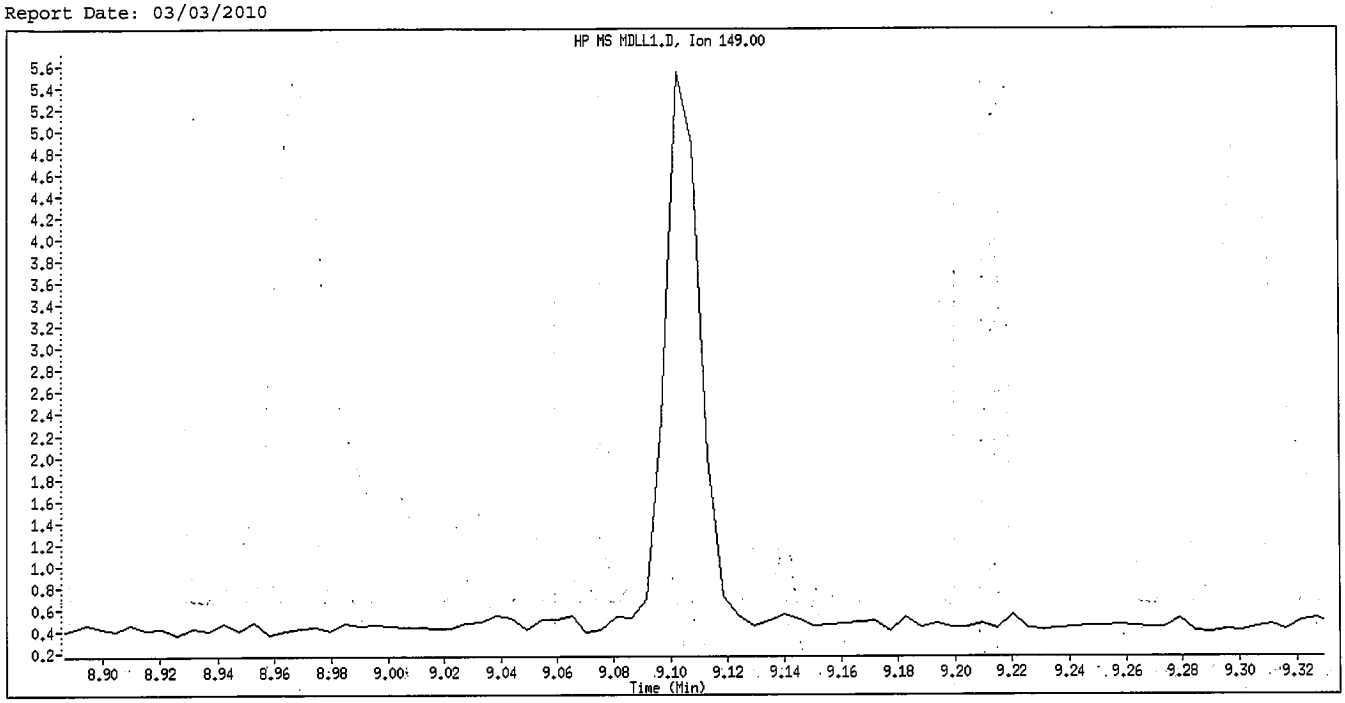
Original Integration



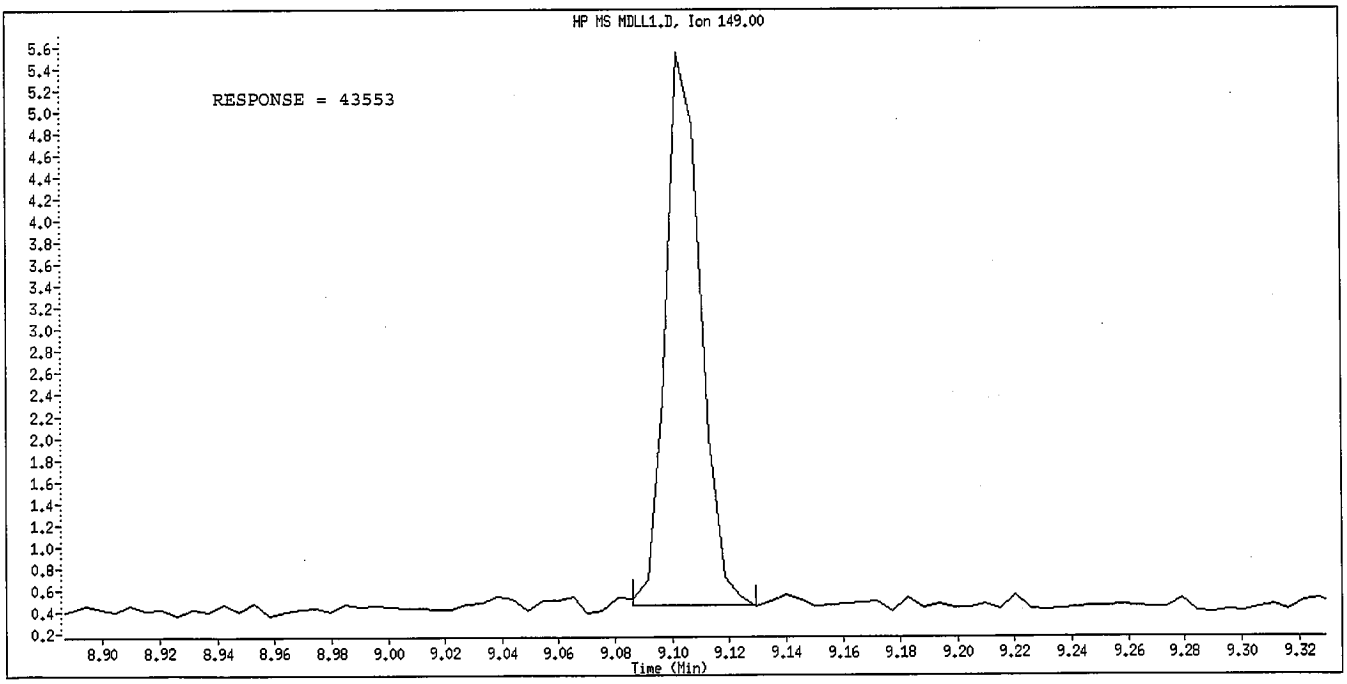
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: Di-n-octylphthalate
CAS #: 117-84-0
Report Date: 03/03/2010



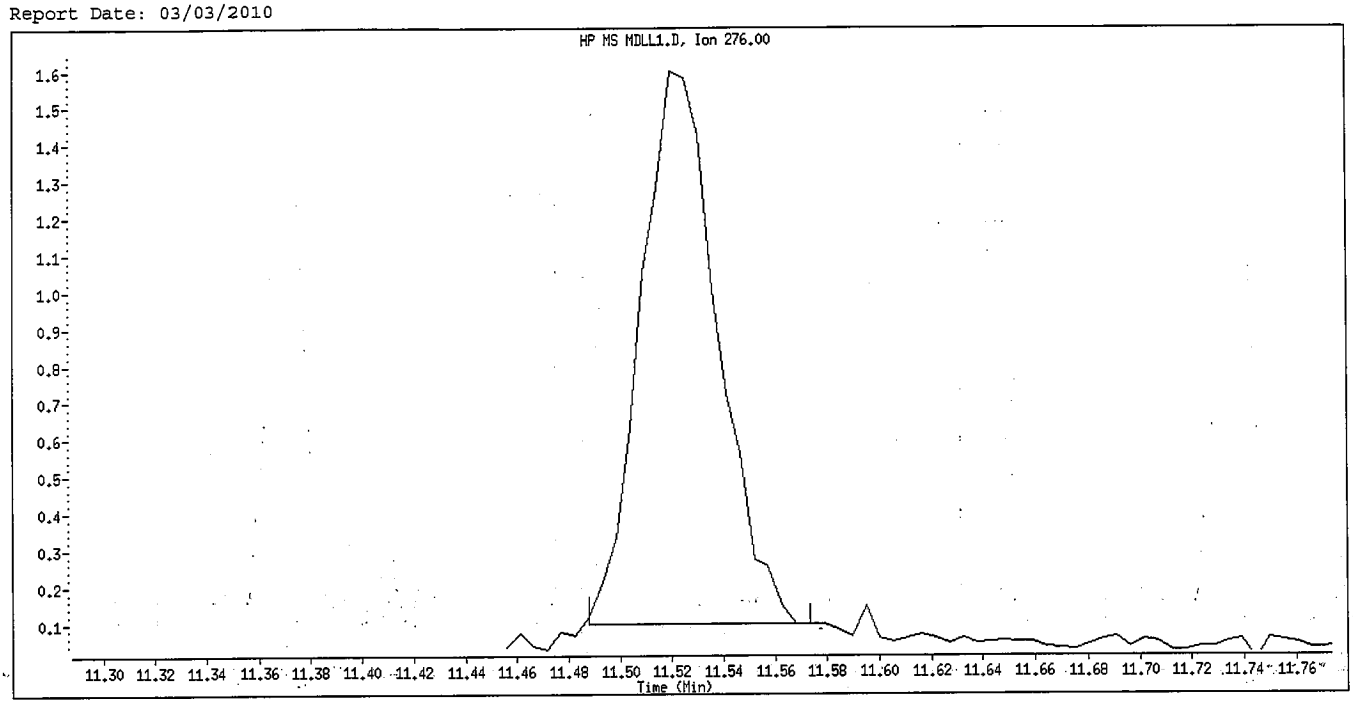
Original Integration



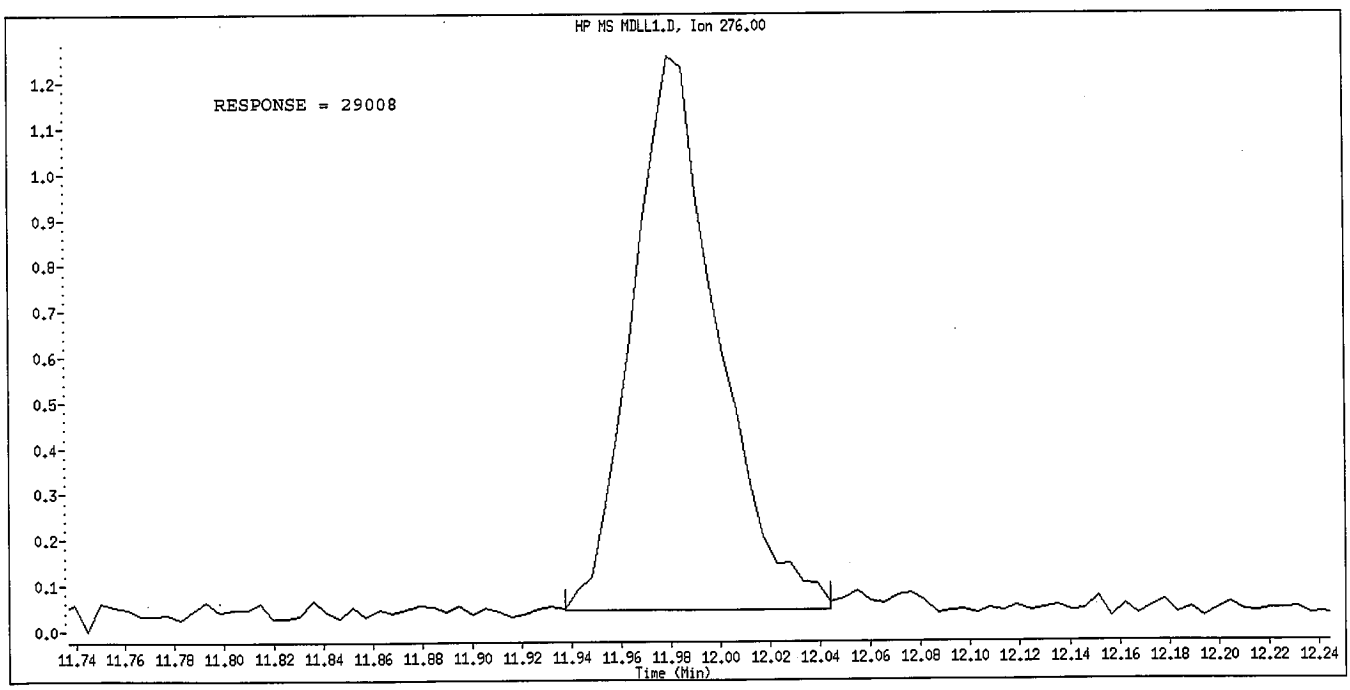
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 02-MAR-2010 17:16
Instrument ID: a4hp7.i
Client ID:
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Good for:
Hexachloroethane

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\MDLL2.D
Lab Smp Id: mdll2
Inj Date : 02-MAR-2010 17:35
Operator : 001710 Inst ID: a4hp7.i
Smp Info : mdll2,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:34 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 26 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	242929	2.00000		(Q)
* 2 Naphthalene-d8	136	4.363	4.358	(1.000)	1060030	2.00000		
* 3 Acenaphthene-d10	164	5.636	5.625	(1.000)	625297	2.00000		
* 4 Phenanthrene-d10	188	6.716	6.711	(1.000)	1090762	2.00000		
* 5 Chrysene-d12	240	8.668	8.663	(1.000)	1332957	2.00000		
* 6 Perylene-d12	264	10.048	10.027	(1.000)	1258090	2.00000		
9 Pyridine	79	1.870	1.876	(0.539)	28183	0.18058	0.18058	
10 N-Nitrosodimethylamine	74	1.838	1.844	(0.530)	17935	0.19916	0.19916	
11 Ethyl methacrylate	69	2.068	2.079	(0.596)	25826	0.18952	0.18952	
12 3-Chloropropionitrile	54	2.234	2.240	(0.644)	22072	0.20773	0.20773	
13 Malononitrile	66	2.378	2.379	(0.686)	48014	0.23880	0.23880	
209 Benzaldehyde	77	3.181	3.176	(0.917)	29105	0.24650	0.24650	
21 Aniline	93	3.245	3.245	(0.935)	58495	0.23549	0.23549	
22 Phenol	94	3.197	3.186	(0.921)	49555	0.25332	0.25332	
23 bis(2-Chloroethyl)ether	93	3.261	3.261	(0.940)	47187	0.27329	0.27329	
24 2-Chlorophenol	128	3.330	3.331	(0.960)	39689	0.25469	0.25469	
26 1,3-Dichlorobenzene	146	3.437	3.432	(0.991)	38932	0.24006	0.24006	
27 1,4-Dichlorobenzene	146	3.480	3.480	(1.003)	39412	0.24729	0.24729	
28 1,2-Dichlorobenzene	146	3.593	3.587	(1.035)	37979	0.24502	0.24502	
29 Benzyl Alcohol	108	3.550	3.539	(1.023)	25309	0.24722	0.24722	
30 2-Methylphenol	108	3.614	3.603	(1.042)	35777	0.26337	0.26337	
31 bis(2-Chloroisopropyl)ether	45	3.630	3.625	(1.046)	63935	0.23410	0.23410	
37 Acetophenone	105	3.737	3.732	(1.077)	53077	0.24590	0.24590	
32 N-Nitroso-di-n-propylamine	70	3.721	3.721	(1.072)	27670	0.23328	0.23328	
192 4-Methylphenol	108	3.716	3.705	(1.071)	36484	0.37983	0.37983	
34 Hexachloroethane	117	3.828	3.828	(1.103)	9836	0.15515	0.15515	
35 Nitrobenzene	77	3.860	3.855	(0.885)	40388	0.23119	0.23119	
41 Isophorone	82	4.020	4.015	(0.922)	77337	0.23752	0.23752	
42 2-Nitrophenol	139	4.085	4.079	(0.936)	20215	0.23271	0.23271	
43 2,4-Dimethylphenol	107	4.090	4.079	(0.937)	39193	0.37521	0.37521	
44 bis(2-Chloroethoxy)methane	93	4.149	4.144	(0.951)	48239	0.24969	0.24969	
46 2,4-Toluenediamene	121	5.186	5.176	(1.189)	27737	0.38783	0.38783	
47 1,3,5-Trichlorobenzene	180	4.095	4.090	(0.939)	34621	0.25491	0.25491	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48 2,4-Dichlorophenol	162	4.256	4.245	(0.975)	26134	0.46468	0.46468
49 Benzoic Acid	122	Compound Not Detected.					
50 1,2,4-Trichlorobenzene	180	4.315	4.315	(0.989)	33223	0.25007	0.25007
51 Naphthalene	128	4.379	4.374	(1.004)	122267	0.25938	0.25938
52 4-Chloroaniline	127	4.400	4.395	(1.009)	46035	0.26413	0.26413
56 Hexachlorobutadiene	225	4.459	4.454	(1.022)	17553	0.25425	0.25425
210 Caprolactam	113	4.641	4.641	(1.064)	10490	0.19491	0.19491(Q)
57 1,2,3-Trichlorobenzene	180	4.480	4.475	(1.027)	32706	0.26556	0.26556
59 4-Chloro-3-Methylphenol	107	4.737	4.721	(1.086)	36806	0.26998	0.26998
62 2-Methylnaphthalene	142	4.871	4.866	(1.116)	70690	0.27735	0.27735
63 1-Methylnaphthalene	142	4.946	4.941	(1.134)	77365	0.25962	0.25962
64 Hexachlorocyclopentadiene	237	4.989	4.983	(0.885)	2113	0.02386	0.023861(M)
66 2,4,6-Trichlorophenol	196	5.074	5.058	(0.900)	20274	0.22594	0.22594
67 2,4,5-Trichlorophenol	196	5.106	5.090	(0.906)	23568	0.23435	0.23435
211 1,1'-Biphenyl	154	5.203	5.197	(0.923)	102382	0.23605	0.23605
68 1,2,3,5-Tetrachlorobenzene	216	4.983	4.978	(0.884)	33046	0.23168	0.23168
70 2-Chloronaphthalene	162	5.229	5.224	(0.928)	77950	0.24876	0.24876
73 2-Nitroaniline	65	5.288	5.278	(0.938)	24593	0.22503	0.22503
74 1,2,3,4-Tetrachlorobenzene	216	5.203	5.197	(0.923)	31492	0.24377	0.24377
76 Dimethylphthalate	163	5.395	5.395	(0.957)	93122	0.25562	0.25562
78 2,6-Dinitrotoluene	165	5.449	5.443	(0.967)	18910	0.22412	0.22412
79 Acenaphthylene	152	5.534	5.529	(0.982)	131983	0.25470	0.25470
80 1,2-Dinitrobenzene	168	5.497	5.492	(0.975)	9103	0.21855	0.21855
81 3-Nitroaniline	138	5.588	5.572	(0.991)	22815	0.23280	0.23280
82 Acenaphthene	153	5.657	5.652	(1.004)	81231	0.23645	0.23645
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	5.711	5.673	(1.013)	10477	0.40193	0.40193(QM)
86 Dibenzofuran	168	5.780	5.775	(1.026)	112041	0.24889	0.24889
87 2,4-Dinitrotoluene	165	5.748	5.738	(1.020)	27013	0.23264	0.23264
91 2,3,5,6-Tetrachlorophenol	232	5.839	5.823	(1.036)	17528	0.20499	0.20499
93 Diethylphthalate	149	5.903	5.898	(1.047)	96537	0.25336	0.25336
94 Fluorene	166	6.032	6.026	(1.070)	97430	0.25175	0.25175
95 4-Chlorophenyl-phenylether	204	6.010	6.005	(1.066)	42643	0.24918	0.24918
96 4-Nitroaniline	138	6.032	6.021	(1.070)	20912	0.20733	0.20733
98 4,6-Dinitro-2-methylphenol	198	6.053	6.037	(0.901)	6343	0.07946	0.079459
99 N-Nitrosodiphenylamine	169	6.090	6.085	(0.907)	69747	0.22906	0.22906
100 1,2-Diphenylhydrazine	77	6.128	6.123	(0.912)	100582	0.22060	0.22060
106 4-Bromophenyl-phenylether	248	6.369	6.363	(0.948)	25493	0.23705	0.23705
107 Hexachlorobenzene	284	6.438	6.433	(0.959)	24351	0.23358	0.23358
212 Atrazine	200	6.459	6.454	(0.962)	18400	0.26785	0.26784
111 Pentachlorophenol	266	6.582	6.567	(0.980)	18806	0.57894	0.57894
115 Phenanthrene	178	6.738	6.727	(1.003)	145387	0.24672	0.24672
116 Anthracene	178	6.775	6.765	(1.009)	145802	0.24566	0.24566
119 Carbazole	167	6.882	6.866	(1.025)	137372	0.24202	0.24202
120 Di-n-Butylphthalate	149	7.080	7.075	(1.054)	175718	0.26943	0.26942
123 Fluoranthene	202	7.604	7.599	(1.132)	155182	0.25999	0.25999
124 Benzidine	184	7.679	7.663	(0.886)	67584	0.18104	0.18104
125 Pyrene	202	7.781	7.770	(0.898)	162899	0.24823	0.24823
131 Butylbenzylphthalate	149	8.182	8.182	(0.944)	86823	0.26941	0.26941
133 3,3'-Dimethoxybenzidine	244	8.578	8.572	(0.990)	35987	0.26436	0.26436
135 3,3'-Dichlorobenzidine	252	8.615	8.610	(0.994)	58946	0.24623	0.24623
136 Benzo(a)Anthracene	228	8.658	8.653	(0.999)	171228	0.26023	0.26023
137 Chrysene	228	8.690	8.685	(1.002)	156967	0.25660	0.25660
138 4,4'-Methylene bis(o-chloroan	231	8.604	8.604	(0.993)	29647	0.23946	0.23946

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.588	8.588	(0.991)	121680	0.26535	0.26535
140 Di-n-octylphthalate	149	9.102	9.107	(0.906)	210752	0.27897	0.27897
141 Benzo(b)fluoranthene	252	9.615	9.610	(0.957)	167081	0.26361	0.26361(H)
142 Benzo(k)fluoranthene	252	9.642	9.637	(0.960)	169691	0.24228	0.24228
146 Benzo(a)pyrene	252	9.984	9.968	(0.994)	152725	0.25220	0.25220
149 Indeno(1,2,3-cd)pyrene	276	11.525	11.503	(1.147)	175792	0.26044	0.26044
150 Dibenz(a,h)anthracene	278	11.530	11.509	(1.147)	146413	0.26028	0.26028
151 Benzo(g,h,i)perylene	276	11.985	11.953	(1.193)	139830	0.25353	0.25352
198 1,4-Dioxane	88	1.667	1.683	(0.481)	11236	0.19133	0.19133
101 Diphenylamine	169	6.090	6.085	(0.907)	69747	0.22906	0.22906

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: MDLL2.D
Lab Smp Id: mdll2
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	242929	-22.74
2 Naphthalene-d8	1302947	651474	2605894	1060030	-18.64
3 Acenaphthene-d10	667302	333651	1334604	625297	-6.29
4 Phenanthrene-d10	1052286	526143	2104572	1090762	3.66
5 Chrysene-d12	1252372	626186	2504744	1332957	6.43
6 Perylene-d12	1122003	561002	2244006	1258090	12.13

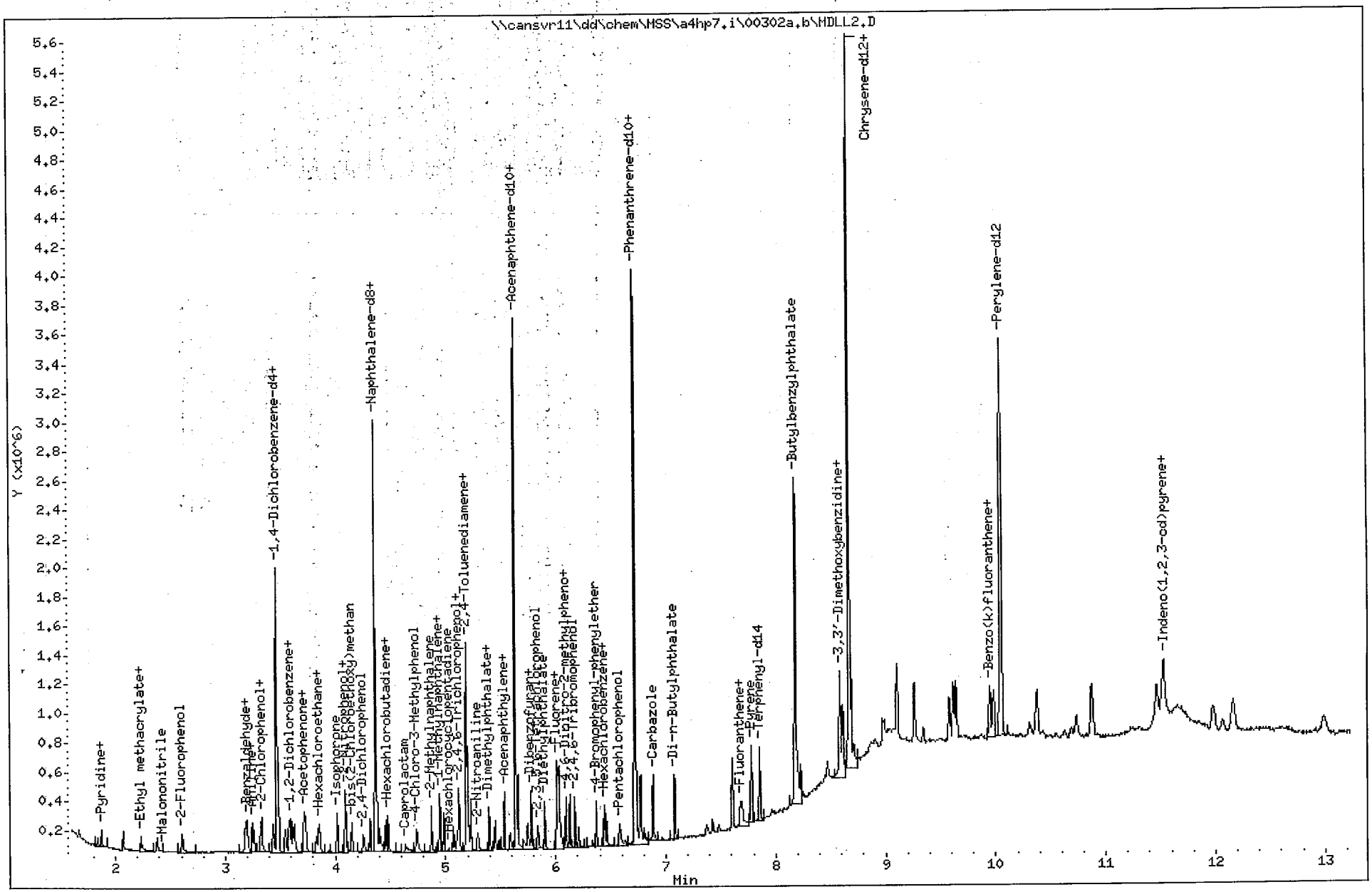
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	-0.01
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.12
3 Acenaphthene-d10	5.63	5.13	6.13	5.64	0.19
4 Phenanthrene-d10	6.71	6.21	7.21	6.72	0.08
5 Chrysene-d12	8.66	8.16	9.16	8.67	0.06
6 Perylene-d12	10.03	9.53	10.53	10.05	0.21

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\MDLL2.D
Date : 02-MAR-2010 17:35
Client ID:
Sample Info: md112,00302a.b,8270C-625,1-827042d.sub

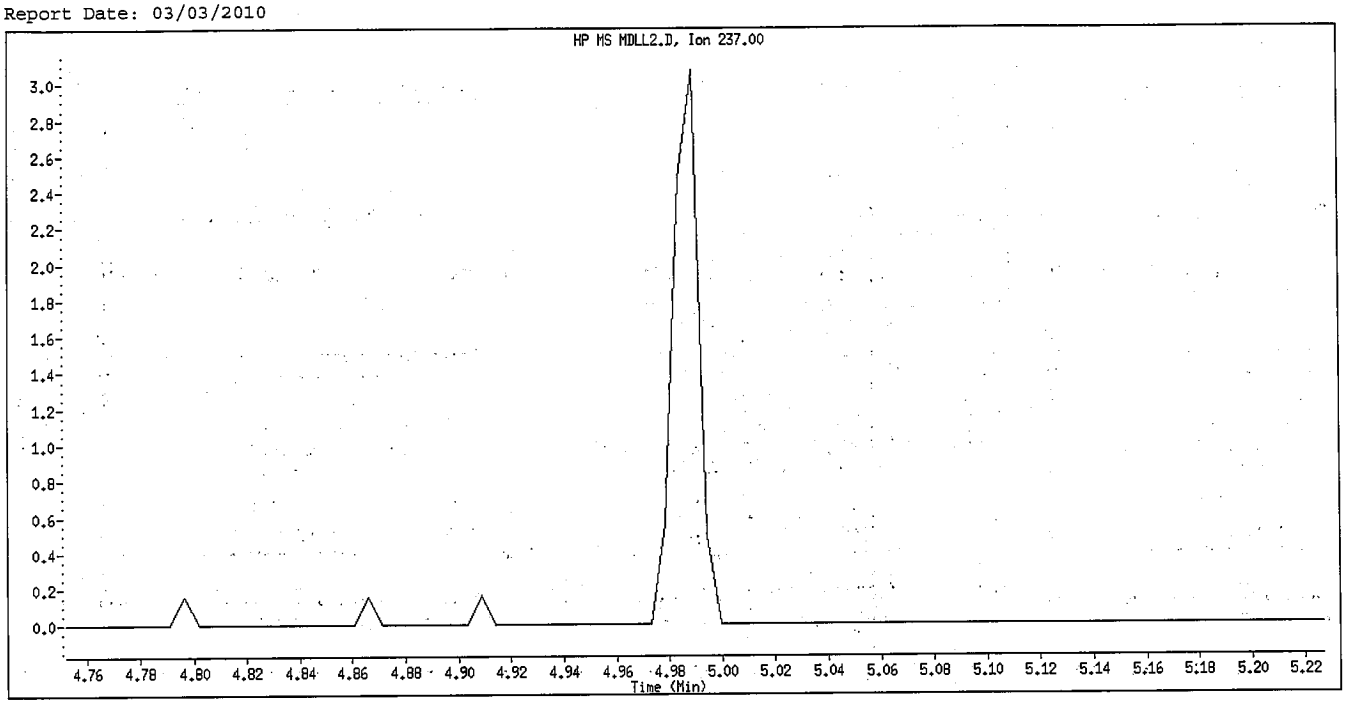
Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32

Column phase: db5.625

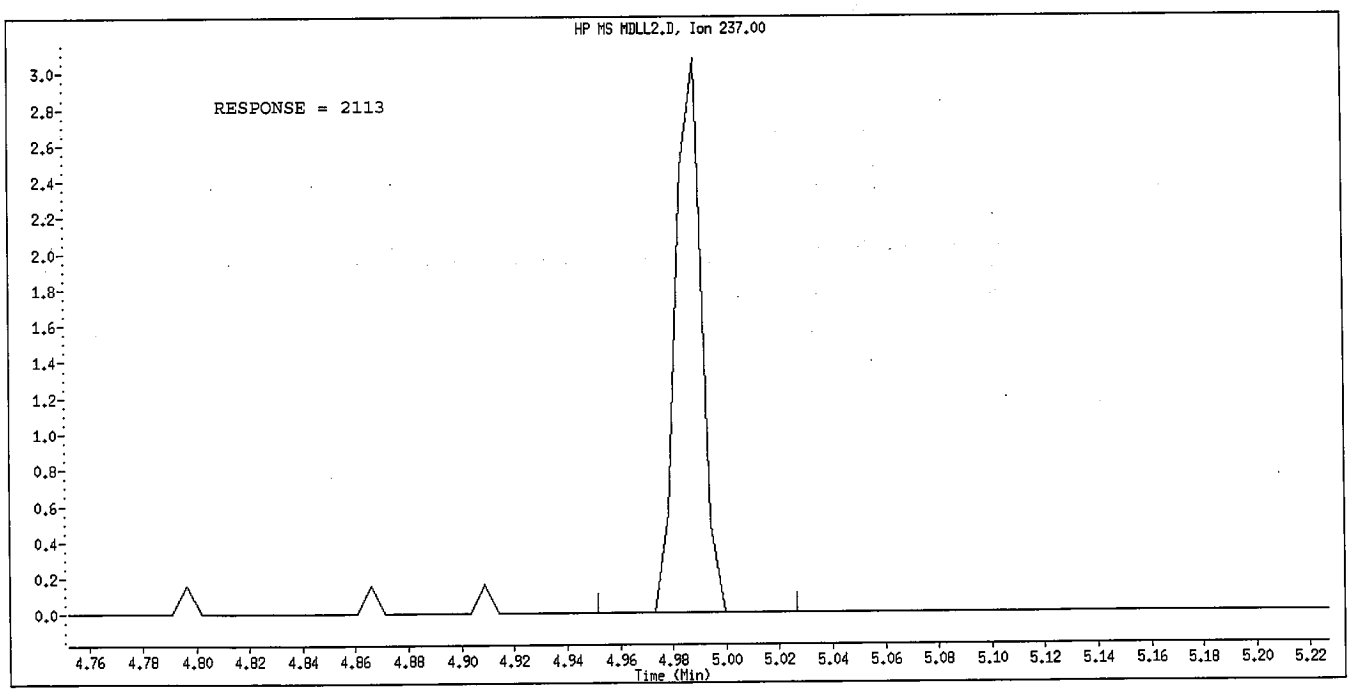


North Canton

Data File Name: MDLL2.D
Inj. Date and Time: 02-MAR-2010 17:35
Instrument ID: a4hp7.i
Client ID:
Compound Name: Hexachlorocyclopentadiene
CAS #: 77-47-4
Report Date: 03/03/2010



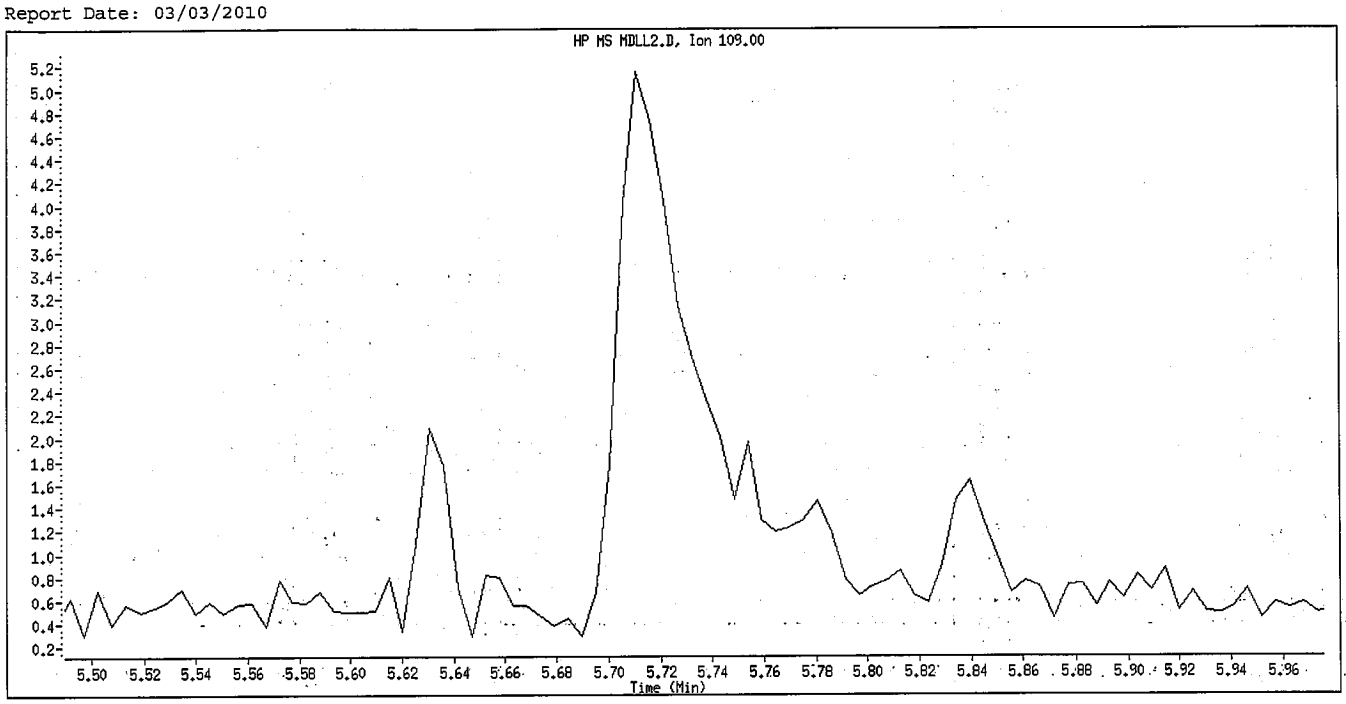
Original Integration



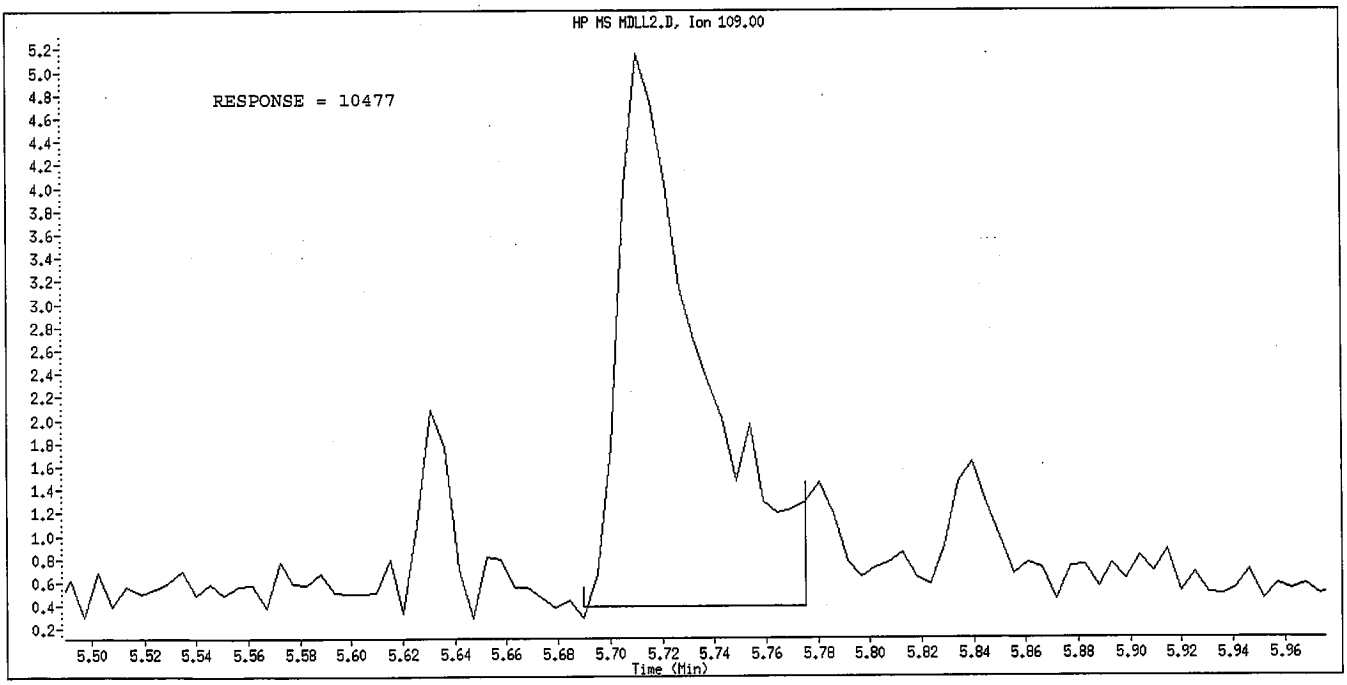
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL2.D
Inj. Date and Time: 02-MAR-2010 17:35
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Good for:
Hexachlorocyclopentadiene
Benzoic Acid

OKmw
3/3/10

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\MDLL3.D
Lab Smp Id: mdll3
Inj Date : 02-MAR-2010 17:54
Operator : 001710 Inst ID: a4hp7.i
Smp Info : mdll3,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 02-Mar-2010 10:34 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 27 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	288248	2.00000	(Q)
* 2 Naphthalene-d8	136	4.363	4.358	(1.000)	1250657	2.00000	
* 3 Acenaphthene-d10	164	5.636	5.625	(1.000)	709199	2.00000	
* 4 Phenanthrene-d10	188	6.716	6.711	(1.000)	1211552	2.00000	
* 5 Chrysene-d12	240	8.669	8.663	(1.000)	1464775	2.00000	
* 6 Perylene-d12	264	10.048	10.027	(1.000)	1390539	2.00000	
9 Pyridine	79	1.870	1.876	(0.539)	65127	0.35168	0.35168
10 N-Nitrosodimethylamine	74	1.838	1.844	(0.530)	40658	0.38051	0.38051
11 Ethyl methacrylate	69	2.068	2.079	(0.596)	59567	0.36840	0.36840
12 3-Chloropropionitrile	54	2.234	2.240	(0.644)	49125	0.38966	0.38966
13 Malononitrile	66	2.379	2.379	(0.686)	105630	0.44276	0.44276
209 Benzaldehyde	77	3.181	3.176	(0.917)	68249	0.46380	0.46380
21 Aniline	93	3.245	3.245	(0.935)	139017	0.47167	0.47167
22 Phenol	94	3.197	3.186	(0.921)	112474	0.48456	0.48456
23 bis(2-Chloroethyl)ether	93	3.261	3.261	(0.940)	108456	0.52937	0.52937
24 2-Chlorophenol	128	3.331	3.331	(0.960)	91750	0.49620	0.49620
26 1,3-Dichlorobenzene	146	3.438	3.432	(0.991)	90097	0.46821	0.46820
27 1,4-Dichlorobenzene	146	3.480	3.480	(1.003)	92760	0.49052	0.49052
28 1,2-Dichlorobenzene	146	3.593	3.587	(1.035)	89923	0.48892	0.48892
29 Benzyl Alcohol	108	3.545	3.539	(1.022)	57805	0.47586	0.47586
30 2-Methylphenol	108	3.614	3.603	(1.042)	85064	0.52774	0.52774
31 bis(2-Chloroisopropyl)ether	45	3.630	3.625	(1.046)	150943	0.46579	0.46579
37 Acetophenone	105	3.732	3.732	(1.076)	124281	0.48526	0.48526
32 N-Nitroso-di-n-propylamine	70	3.721	3.721	(1.072)	68289	0.48521	0.48521
192 4-Methylphenol	108	3.716	3.705	(1.071)	85623	0.63394	0.63394
34 Hexachloroethane	117	3.828	3.828	(1.103)	24964	0.33187	0.33186
35 Nitrobenzene	77	3.860	3.855	(0.885)	96639	0.46887	0.46887
41 Isophorone	82	4.021	4.015	(0.922)	181306	0.47196	0.47196
42 2-Nitrophenol	139	4.085	4.079	(0.936)	47858	0.46696	0.46696
43 2,4-Dimethylphenol	107	4.090	4.079	(0.937)	90412	0.62331	0.62331
44 bis(2-Chloroethoxy)methane	93	4.149	4.144	(0.951)	109730	0.48140	0.48140
46 2,4-Toluenediamene	121	5.187	5.176	(1.189)	68363	0.81019	0.81018
47 1,3,5-Trichlorobenzene	180	4.095	4.090	(0.939)	78658	0.49088	0.49088

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48	2,4-Dichlorophenol	162	4.256	4.245	(0.975)	61135	0.69131	0.69131
49	Benzoic Acid	122	4.128	4.160	(0.946)	6227	1.10168	1.1017
50	1,2,4-Trichlorobenzene	180	4.320	4.315	(0.990)	80181	0.51153	0.51153
51	Naphthalene	128	4.379	4.374	(1.004)	275168	0.49477	0.49477
52	4-Chloroaniline	127	4.400	4.395	(1.009)	113425	0.55160	0.55160
56	Hexachlorobutadiene	225	4.459	4.454	(1.022)	40201	0.49355	0.49355
210	Caprolactam	113	4.636	4.641	(1.063)	30904	0.48669	0.48669 (Q)
57	1,2,3-Trichlorobenzene	180	4.481	4.475	(1.027)	75283	0.51811	0.51811
59	4-Chloro-3-Methylphenol	107	4.737	4.721	(1.086)	85807	0.53349	0.53348
62	2-Methylnaphthalene	142	4.871	4.866	(1.116)	158420	0.52681	0.52681
63	1-Methylnaphthalene	142	4.946	4.941	(1.134)	186312	0.52993	0.52993
64	Hexachlorocyclopentadiene	237	4.983	4.983	(0.884)	8586	0.08549	0.085487
66	2,4,6-Trichlorophenol	196	5.074	5.058	(0.900)	49953	0.49084	0.49084
67	2,4,5-Trichlorophenol	196	5.106	5.090	(0.906)	55897	0.49006	0.49006
211	1,1'-Biphenyl	154	5.203	5.197	(0.923)	231409	0.47041	0.47041
68	1,2,3,5-Tetrachlorobenzene	216	4.983	4.978	(0.884)	78080	0.48265	0.48265
70	2-Chloronaphthalene	162	5.229	5.224	(0.928)	169631	0.47729	0.47729
73	2-Nitroaniline	65	5.288	5.278	(0.938)	55581	0.44840	0.44840
74	1,2,3,4-Tetrachlorobenzene	216	5.203	5.197	(0.923)	72854	0.49723	0.49723
76	Dimethylphthalate	163	5.395	5.395	(0.957)	202870	0.49100	0.49100
78	2,6-Dinitrotoluene	165	5.449	5.443	(0.967)	45671	0.47725	0.47725
79	Acenaphthylene	152	5.534	5.529	(0.982)	295532	0.50284	0.50284
80	1,2-Dinitrobenzene	168	5.497	5.492	(0.975)	21986	0.46540	0.46540
81	3-Nitroaniline	138	5.588	5.572	(0.991)	50294	0.45247	0.45247
82	Acenaphthene	153	5.657	5.652	(1.004)	188659	0.48419	0.48419
83	2,4-Dinitrophenol	184	5.663	5.647	(1.005)	18655	0.86959	0.86959 (Q)
85	4-Nitrophenol	109	5.705	5.673	(1.012)	23760	0.64106	0.64106 (QM)
86	Dibenzofuran	168	5.780	5.775	(1.026)	255905	0.50122	0.50122
87	2,4-Dinitrotoluene	165	5.748	5.738	(1.020)	63322	0.48082	0.48082
91	2,3,5,6-Tetrachlorophenol	232	5.839	5.823	(1.036)	41981	0.43289	0.43289
93	Diethylphthalate	149	5.903	5.898	(1.047)	216557	0.50110	0.50110
94	Fluorene	166	6.032	6.026	(1.070)	213898	0.48731	0.48730
95	4-Chlorophenyl-phenylether	204	6.010	6.005	(1.066)	96169	0.49546	0.49546
96	4-Nitroaniline	138	6.032	6.021	(1.070)	57133	0.49944	0.49944
98	4,6-Dinitro-2-methylphenol	198	6.048	6.037	(0.900)	18469	0.20830	0.20830
99	N-Nitrosodiphenylamine	169	6.090	6.085	(0.907)	161519	0.47757	0.47757
100	1,2-Diphenylhydrazine	77	6.128	6.123	(0.912)	225149	0.44456	0.44456
106	4-Bromophenyl-phenylether	248	6.369	6.363	(0.948)	55538	0.46494	0.46494
107	Hexachlorobenzene	284	6.438	6.433	(0.959)	56562	0.48846	0.48846
212	Atrazine	200	6.460	6.454	(0.962)	42258	0.55381	0.55381
111	Pentachlorophenol	266	6.577	6.567	(0.979)	43536	0.83643	0.83643
115	Phenanthrene	178	6.738	6.727	(1.003)	322622	0.49290	0.49290
116	Anthracene	178	6.775	6.765	(1.009)	323099	0.49012	0.49012
119	Carbazole	167	6.882	6.866	(1.025)	311243	0.49368	0.49368
120	Di-n-Butylphthalate	149	7.080	7.075	(1.054)	390031	0.53840	0.53840
123	Fluoranthene	202	7.604	7.599	(1.132)	336551	0.50763	0.50763
124	Benzidine	184	7.679	7.663	(0.886)	180694	0.44047	0.44047
125	Pyrene	202	7.781	7.770	(0.898)	367044	0.50897	0.50897
131	Butylbenzylphthalate	149	8.182	8.182	(0.944)	183776	0.51894	0.51894
133	3,3'-Dimethoxybenzidine	244	8.578	8.572	(0.990)	80634	0.53903	0.53903
135	3,3'-Dichlorobenzidine	252	8.615	8.610	(0.994)	127704	0.48545	0.48545
136	Benzo(a)Anthracene	228	8.658	8.653	(0.999)	373760	0.51692	0.51692
137	Chrysene	228	8.690	8.685	(1.002)	340145	0.50601	0.50601
138	4,4'-Methylene bis(o-chloroan	231	8.604	8.604	(0.993)	65309	0.48002	0.48002

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.588	8.588	(0.991)	260235	0.51642	0.51642
140 Di-n-octylphthalate	149	9.102	9.107	(0.906)	452569	0.54200	0.54200
141 Benzo(b)fluoranthene	252	9.615	9.610	(0.957)	365662	0.52196	0.52196 (H)
142 Benzo(k)fluoranthene	252	9.642	9.637	(0.960)	357139	0.46134	0.46134
146 Benzo(a)pyrene	252	9.979	9.968	(0.993)	327837	0.48981	0.48981
149 Indeno(1,2,3-cd)pyrene	276	11.519	11.503	(1.146)	378583	0.50746	0.50746
150 Dibenz(a,h)anthracene	278	11.530	11.509	(1.147)	318954	0.51300	0.51300
151 Benzo(g,h,i)perylene	276	11.979	11.953	(1.192)	309125	0.50709	0.50709
198 1,4-Dioxane	88	1.667	1.683	(0.481)	23261	0.33382	0.33382
101 Diphenylamine	169	6.090	6.085	(0.907)	161519	0.47757	0.47757

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: MDLL3.D
Lab Smp Id: mdll3
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	288248	-8.33
2 Naphthalene-d8	1302947	651474	2605894	1250657	-4.01
3 Acenaphthene-d10	667302	333651	1334604	709199	6.28
4 Phenanthrene-d10	1052286	526143	2104572	1211552	15.14
5 Chrysene-d12	1252372	626186	2504744	1464775	16.96
6 Perylene-d12	1122003	561002	2244006	1390539	23.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	-0.00
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.12
3 Acenaphthene-d10	5.63	5.13	6.13	5.64	0.19
4 Phenanthrene-d10	6.71	6.21	7.21	6.72	0.08
5 Chrysene-d12	8.66	8.16	9.16	8.67	0.06
6 Perylene-d12	10.03	9.53	10.53	10.05	0.21

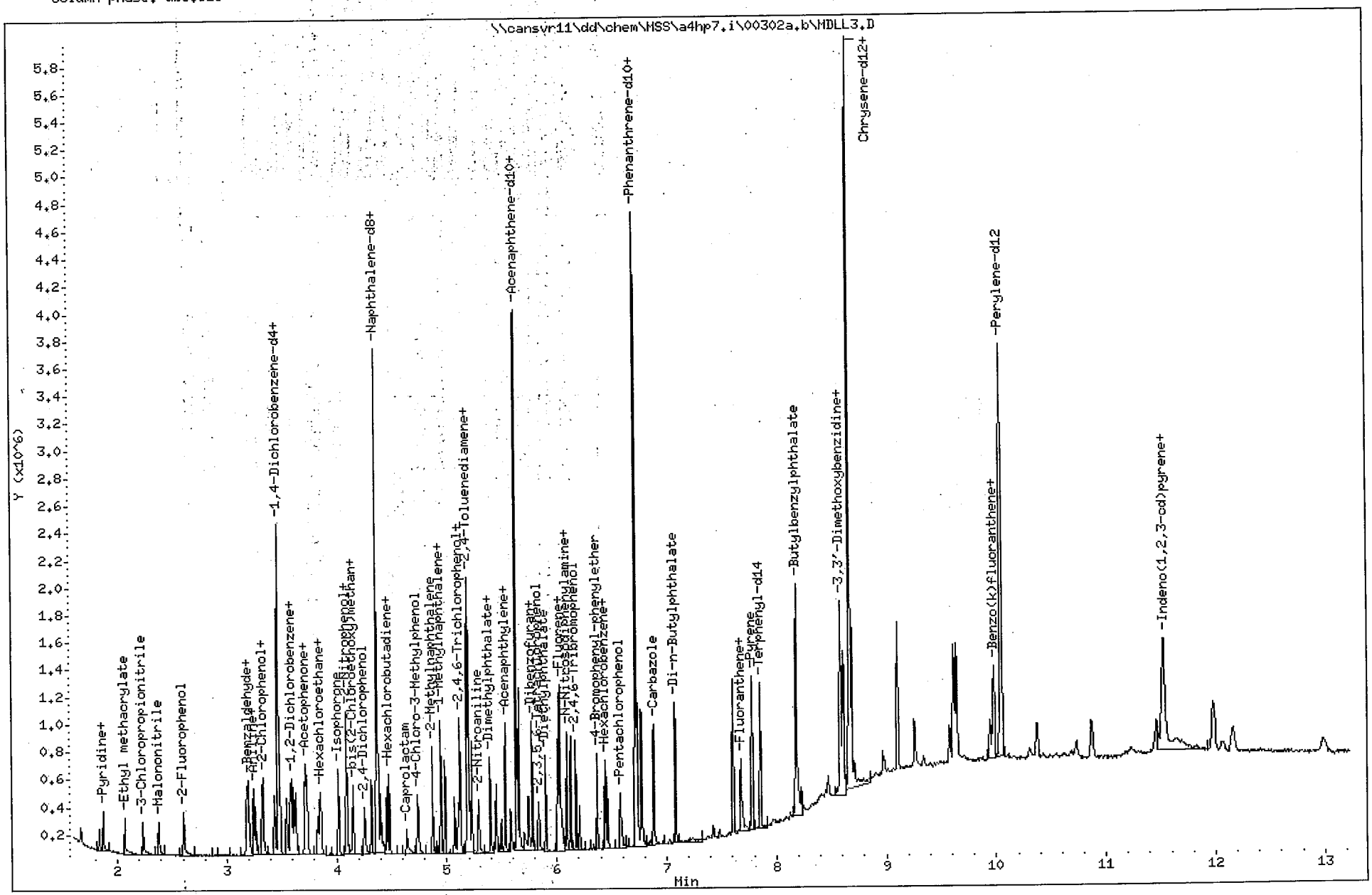
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\MDLL3.D
Date : 02-MAR-2010 17:54
Client ID:
Sample Info: mdll3,00302a.b,8270C-625,1-827042d.sub

Instrument: a4hp7.i

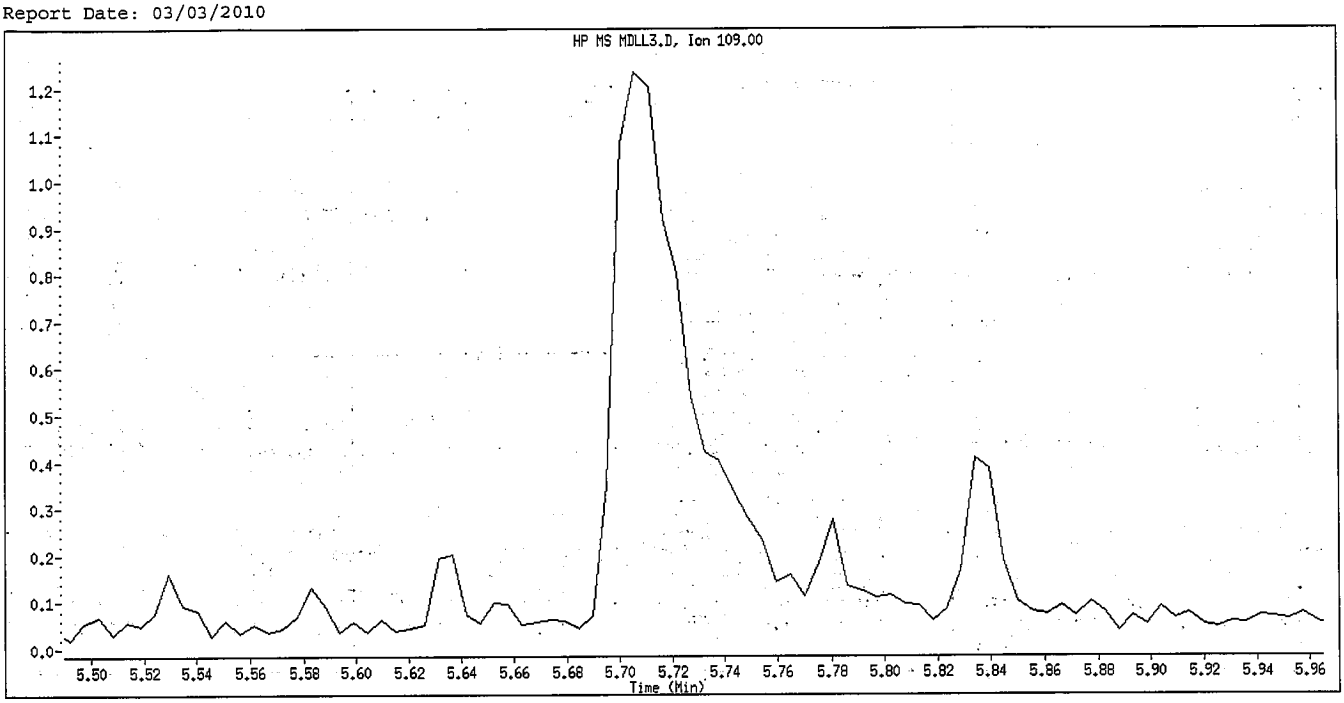
Operator: 001710
Column diameter: 0.32

Column phase: db5.625

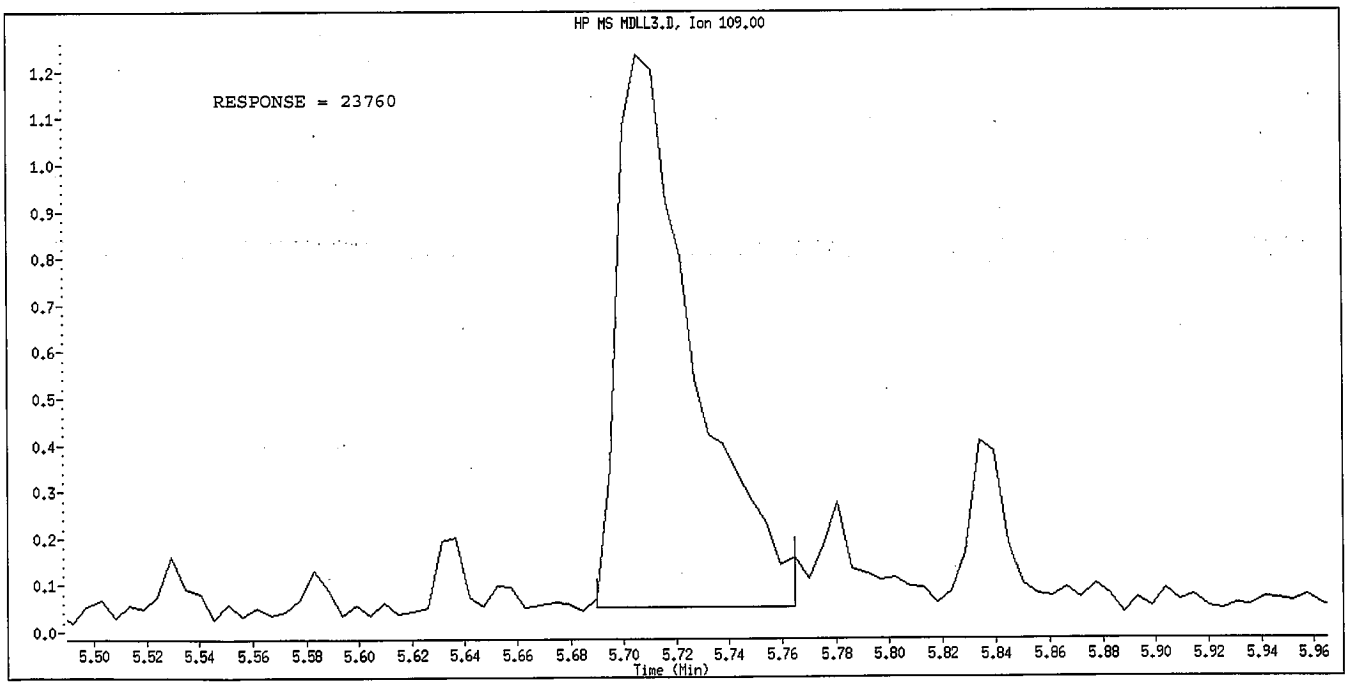


North Canton

Data File Name: MDLL3.D
Inj. Date and Time: 02-MAR-2010 17:54
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\7QMDLL1.D
Lab Smp Id: l1
Inj Date : 01-MAR-2010 16:41
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l1,00301a.b,8270C-625,pah.sub,1,,1
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\8270C-625.m
Meth Date : 02-Mar-2010 10:20 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 6 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

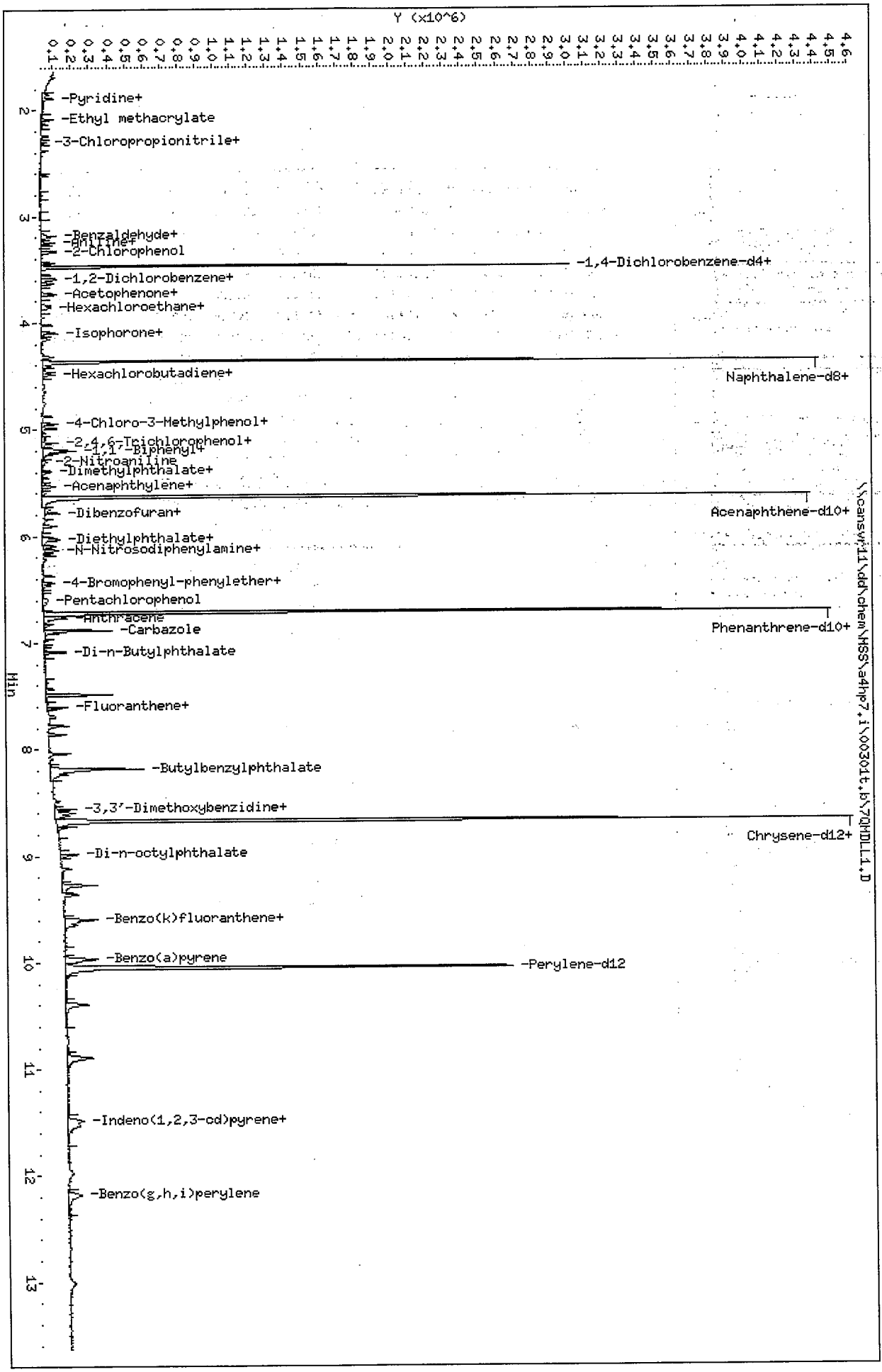
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.476	3.471	(1.000)	355427	2.00000	
* 2 Naphthalene-d8	136	4.364	4.364	(1.000)	1417789	2.00000	
* 3 Acenaphthene-d10	164	5.632	5.632	(1.000)	749080	2.00000	
* 4 Phenanthrene-d10	188	6.718	6.717	(1.000)	1164247	2.00000	
* 5 Chrysene-d12	240	8.670	8.659	(1.000)	1347595	2.00000	
* 6 Perylene-d12	264	10.050	10.028	(1.000)	1208933	2.00000	
9 Pyridine	79	1.888	1.882	(0.543)	11594	0.05077	0.050774
10 N-Nitrosodimethylamine	74	1.850	1.850	(0.532)	6571	0.04987	0.049873(M)
11 Ethyl methacrylate	69	2.086	2.086	(0.600)	10075	0.05053	0.050532
12 3-Chloropropionitrile	54	2.246	2.246	(0.646)	8865	0.05703	0.057026
13 Malononitrile	66	2.380	2.385	(0.685)	14169	0.04817	0.048166
209 Benzaldehyde	77	3.182	3.182	(0.915)	8930	0.07935	0.079352
21 Aniline	93	3.246	3.252	(0.934)	17531	0.04824	0.048238
22 Phenol	94	3.198	3.193	(0.920)	11302	0.03949	0.039488
23 bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	12923	0.05115	0.051155
24 2-Chlorophenol	128	3.337	3.337	(0.960)	10081	0.04422	0.044215
26 1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	11802	0.04974	0.049739
27 1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	11814	0.05067	0.050665
28 1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	11212	0.04944	0.049438
29 Benzyl Alcohol	108	3.546	3.546	(1.020)	6387	0.04264	0.042641
30 2-Methylphenol	108	3.610	3.610	(1.038)	6241	0.03140	0.031401
31 bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	21117	0.05285	0.052847
37 Acetophenone	105	3.733	3.738	(1.074)	16311	0.05165	0.051649
32 N-Nitroso-di-n-propylamine	70	3.722	3.728	(1.071)	7536	0.04342	0.043425(QM)
192 4-Methylphenol	108	3.712	3.712	(1.068)	3110	0.13380	0.13380
34 Hexachloroethane	117	3.835	3.835	(1.103)	5025	0.05418	0.054175
35 Nitrobenzene	77	3.861	3.861	(0.885)	11319	0.04844	0.048443
41 Isophorone	82	4.022	4.022	(0.922)	18299	0.04202	0.042020
42 2-Nitrophenol	139	4.086	4.086	(0.936)	5394	0.04643	0.046426
43 2,4-Dimethylphenol	107	4.102	4.086	(0.940)	4077	0.13462	0.13462(Q)
44 bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.951)	11863	0.04591	0.045910
46 2,4-Toluenediamene	121	Compound Not Detected.					
47 1,3,5-Trichlorobenzene	180	4.097	4.097	(0.939)	9121	0.05021	0.050212
48 2,4-Dichlorophenol	162	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
49 Benzoic Acid	122	Compound Not Detected.					
50 1,2,4-Trichlorobenzene	180	4.321	4.321	(0.990)	8940	0.05031	0.050311
51 Naphthalene	128	4.380	4.380	(1.004)	32455	0.05148	0.051477
52 4-Chloroaniline	127	4.407	4.402	(1.010)	6229	0.02672	0.026721
56 Hexachlorobutadiene	225	4.460	4.461	(1.022)	4625	0.05009	0.050088
210 Caprolactam	113	4.642	4.658	(1.064)	2557	0.03552	0.035522(Q)
57 1,2,3-Trichlorobenzene	180	4.482	4.482	(1.027)	7913	0.04804	0.048038
59 4-Chloro-3-Methylphenol	107	4.755	4.728	(1.089)	8225	0.04511	0.045109
62 2-Methylnaphthalene	142	4.878	4.872	(1.118)	14081	0.04131	0.041306
63 1-Methylnaphthalene	142	4.947	4.947	(1.134)	19049	0.04779	0.047795
64 Hexachlorocyclopentadiene	237	4.990	4.990	(0.886)	3869	0.03647	0.036471
66 2,4,6-Trichlorophenol	196	5.076	5.070	(0.901)	3966	0.03690	0.036895
67 2,4,5-Trichlorophenol	196	5.129	5.097	(0.911)	5548	0.04605	0.046051(M)
211 1,1'-Biphenyl	154	5.204	5.204	(0.924)	22519	0.04334	0.043340
68 1,2,3,5-Tetrachlorobenzene	216	4.985	4.985	(0.885)	8704	0.05094	0.050939
70 2-Chloronaphthalene	162	5.231	5.231	(0.929)	18117	0.04826	0.048262
73 2-Nitroaniline	65	5.300	5.290	(0.941)	4869	0.03719	0.037189
74 1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.924)	7008	0.04528	0.045283
76 Dimethylphthalate	163	5.396	5.402	(0.958)	20886	0.04786	0.047859
78 2,6-Dinitrotoluene	165	5.450	5.450	(0.968)	4686	0.04636	0.046361
79 Acenaphthylene	152	5.536	5.536	(0.983)	29206	0.04705	0.047048
80 1,2-Dinitrobenzene	168	5.503	5.498	(0.977)	1875	0.03758	0.037577(Q)
81 3-Nitroaniline	138	Compound Not Detected.					
82 Acenaphthene	153	5.659	5.659	(1.005)	21727	0.05279	0.052793(Q)
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	Compound Not Detected.					
86 Dibenzofuran	168	5.782	5.782	(1.027)	25649	0.04756	0.047562
87 2,4-Dinitrotoluene	165	5.750	5.750	(1.021)	4219	0.03033	0.030330
91 2,3,5,6-Tetrachlorophenol	232	5.846	5.835	(1.038)	3379	0.03299	0.032988
93 Diethylphthalate	149	5.905	5.905	(1.048)	23498	0.05148	0.051478
94 Fluorene	166	6.033	6.033	(1.071)	22444	0.04841	0.048410
95 4-Chlorophenyl-phenylether	204	6.012	6.012	(1.067)	9963	0.04860	0.048597
96 4-Nitroaniline	138	6.049	6.028	(1.074)	4616	0.03820	0.038203
98 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99 N-Nitrosodiphenylamine	169	6.097	6.097	(0.908)	14225	0.04377	0.043769
100 1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	25057	0.05149	0.051486
106 4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	6004	0.05230	0.052305
107 Hexachlorobenzene	284	6.439	6.440	(0.959)	5859	0.05265	0.052653
212 Atrazine	200	6.461	6.461	(0.962)	3576	0.04877	0.048770
111 Pentachlorophenol	266	6.595	6.573	(0.982)	4683	0.39669	0.39669(M)
115 Phenanthrene	178	6.734	6.739	(1.002)	33577	0.05338	0.053383
116 Anthracene	178	6.771	6.776	(1.008)	33597	0.05304	0.053035
119 Carbazole	167	6.883	6.878	(1.025)	30680	0.05064	0.050640
120 Di-n-Butylphthalate	149	7.087	7.087	(1.055)	52239	0.07504	0.075041
123 Fluoranthene	202	7.605	7.606	(1.132)	34385	0.05397	0.053971
124 Benzidine	184	7.686	7.675	(0.886)	8872	0.02351	0.023507
125 Pyrene	202	7.777	7.777	(0.897)	33001	0.04974	0.049741
131 Butylbenzylphthalate	149	8.188	8.189	(0.944)	17130	0.05258	0.052577
133 3,3'-Dimethoxybenzidine	244	8.590	8.584	(0.991)	3102	0.02254	0.022540
135 3,3'-Dichlorobenzidine	252	8.627	8.622	(0.995)	9118	0.03767	0.037675
136 Benzo(a)Anthracene	228	8.665	8.665	(0.999)	37618	0.05655	0.056550
137 Chrysene	228	8.691	8.697	(1.002)	31287	0.05059	0.050590
138 4,4'-Methylene bis(o-chloroan	231	8.616	8.611	(0.994)	5213	0.04165	0.041647
139 bis(2-ethylhexyl)Phthalate	149	8.600	8.595	(0.992)	23866	0.05148	0.051479

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
140 Di-n-octylphthalate	149	9.119	9.114	(0.907)	29296	0.04036	0.040356
141 Benzo(b)fluoranthene	252	9.622	9.622	(0.957)	27067	0.04444	0.044440(H)
142 Benzo(k)fluoranthene	252	9.649	9.654	(0.960)	34914	0.05188	0.051875
146 Benzo(a)pyrene	252	9.986	9.986	(0.994)	28234	0.04852	0.048520
149 Indeno(1,2,3-cd)pyrene	276	11.521	11.531	(1.146)	28837	0.04446	0.044460
150 Dibenz(a,h)anthracene	278	11.526	11.537	(1.147)	22956	0.04247	0.042468
151 Benzo(g,h,i)perylene	276	11.970	11.981	(1.191)	23891	0.04508	0.045078
198 1,4-Dioxane	88	1.690	1.690	(0.486)	4843	0.05637	0.056365
101 Diphenylamine	169	6.097	6.097	(0.908)	14225	0.04377	0.043769

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.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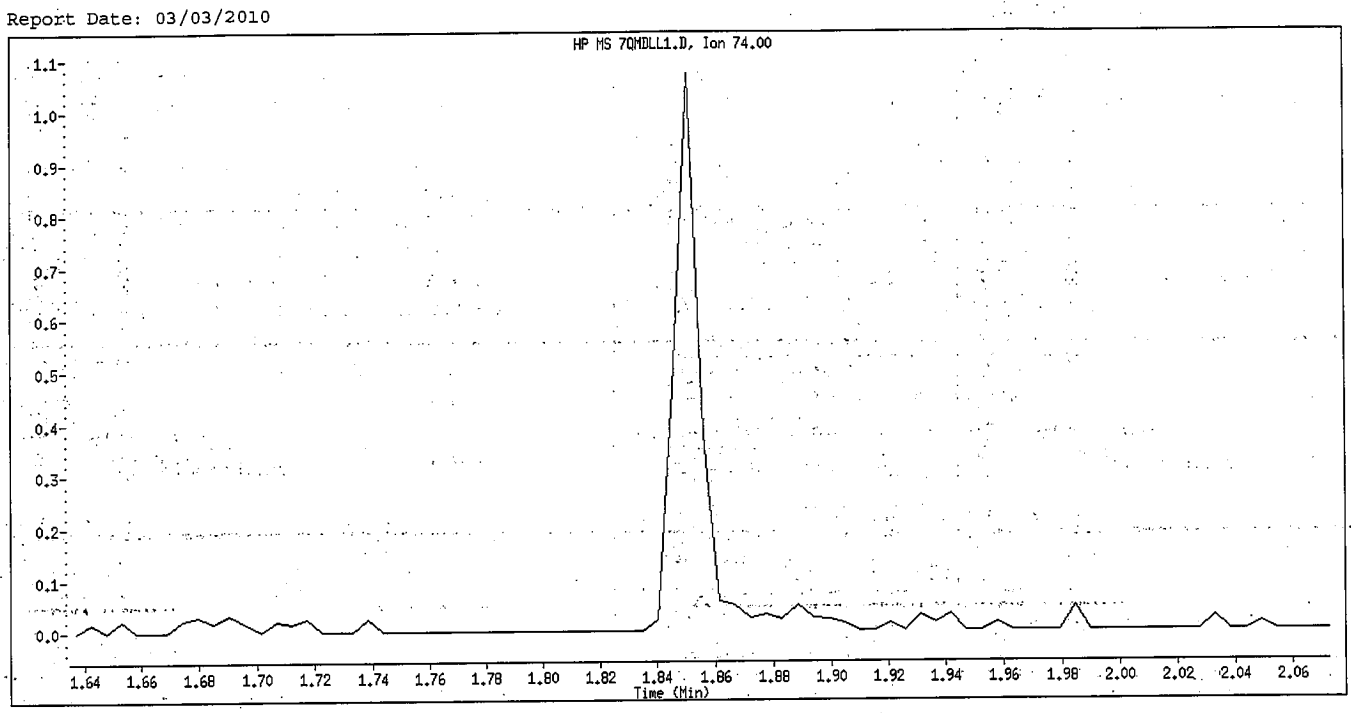
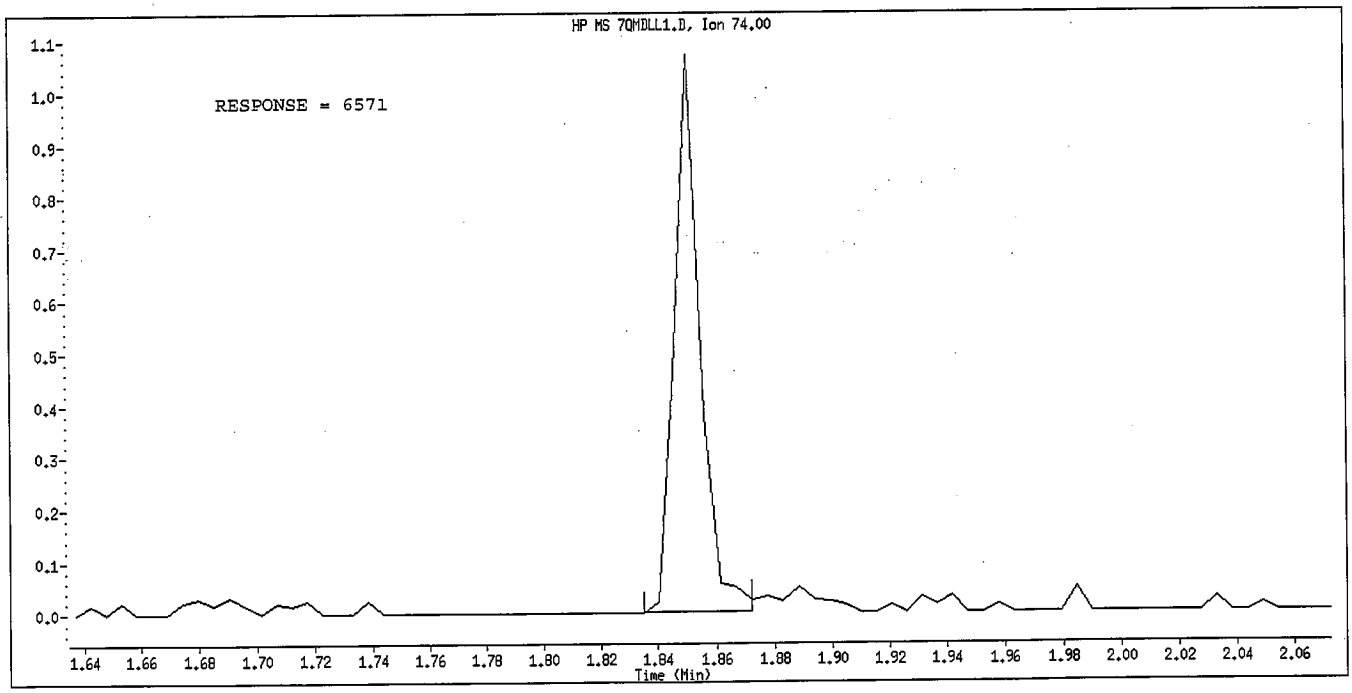
Date : 01-MAR-2010 16:41
Client ID:
Sample Info: 11,003011a,b,8270C-625,pah,sub,1,1
Column phase: db5,625
Instrument: a4hp7,i
Operator: 001710
Column diameter: 0.32
\\cansvr11\dd\chem\MSS\a4hp7,i\003011,b\7QHDLL1.D
Y (x10^6)
Min
-Pyridine+
-Ethyl methacrylate
-3-Chloropropionitrile+
-Benzaldehyde+
-Aniline+
-2-Chlorophenol
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone+
-Hexachlorobutadiene+
Naphthalene-d8+
-4-Chloro-3-Methylphenol+
-2,4,6-Trichlorophenol+
-1,1'-Biphenyl+
-2-Nitroaniline
-Dimethylphthalate+
-Acenaphthylene+
-Dibenzofuran+
Acenaphthene-d10+
-Diethylphthalate+
-N-Nitrosodiphenylamine+
-4-Bromophenyl-phenylether+
-Pentachlorophenol
-Anthracene
-Carbazole
Phenanthrene-d10+
-Di-n-Butylphthalate
-Fluoranthene+
-Butylbenzylphthalate
-3,3'-Dimethoxybenzidine+
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(k)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene

Page 1

Data File Name: 7QMDLL1.D
Inj. Date and Time: 01-MAR-2010 16:41
Instrument ID: a4hp7.i
Client ID:
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 03/03/2010



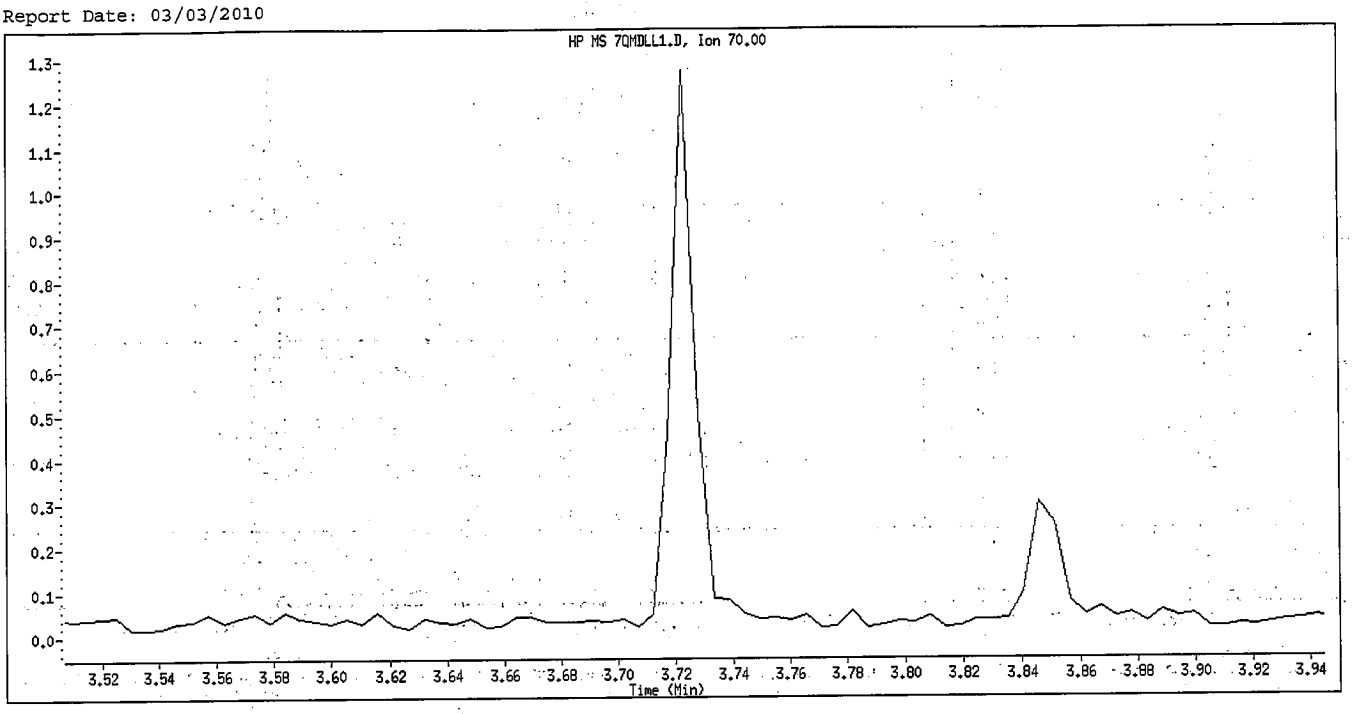
Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 7QMDLL1.D
Inj. Date and Time: 01-MAR-2010 16:41
Instrument ID: a4hp7.i
Client ID:
Compound Name: N-Nitroso-di-n-propylamine
CAS #: 621-64-7
Report Date: 03/03/2010



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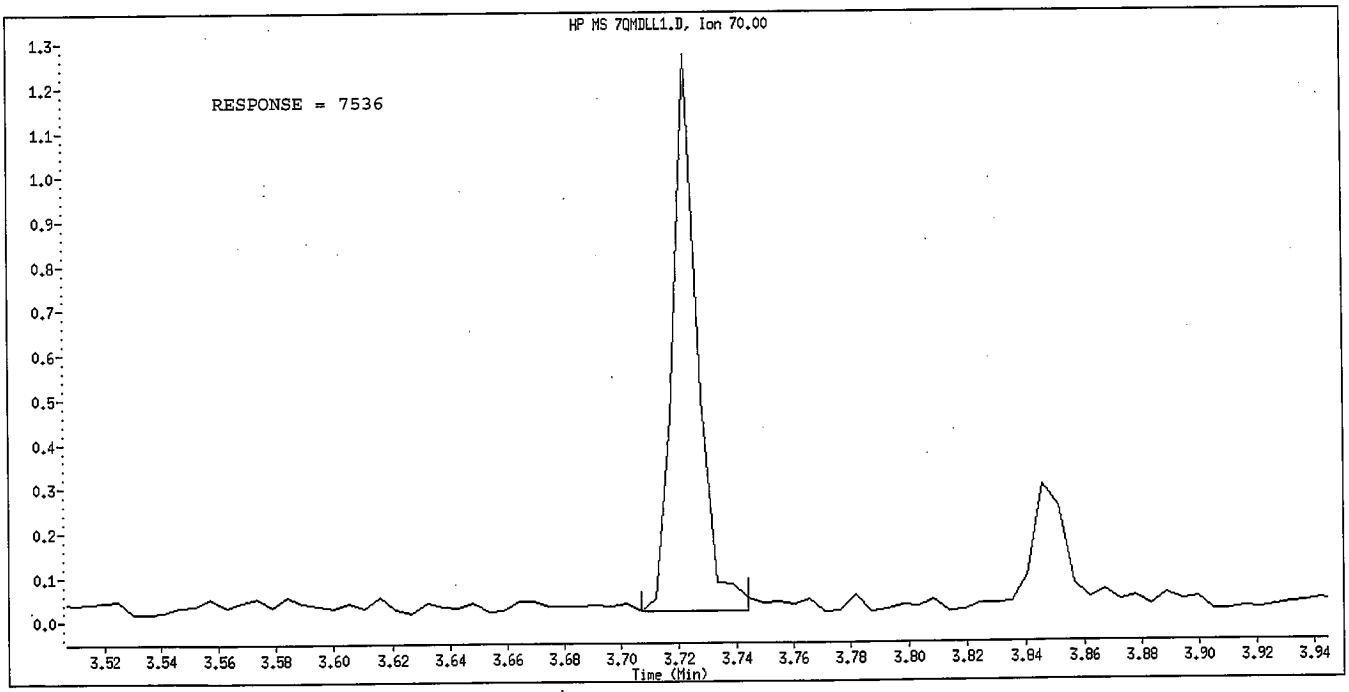
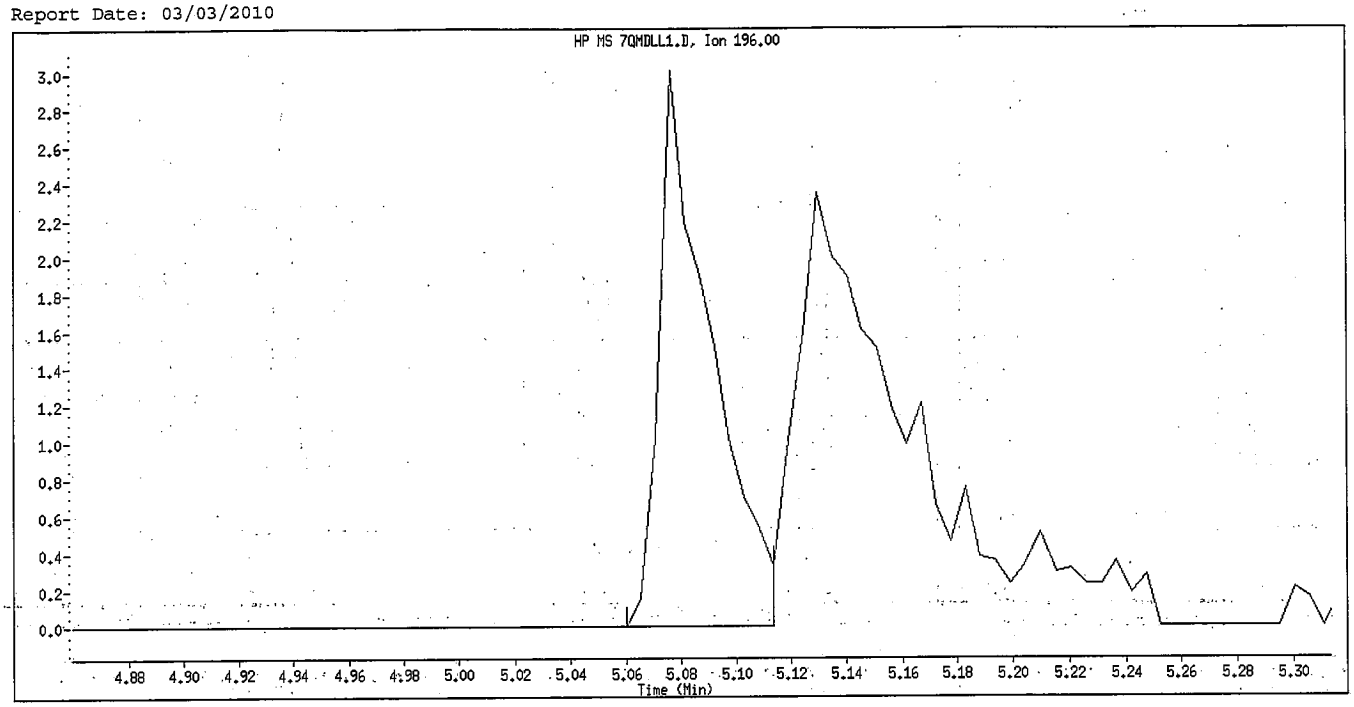


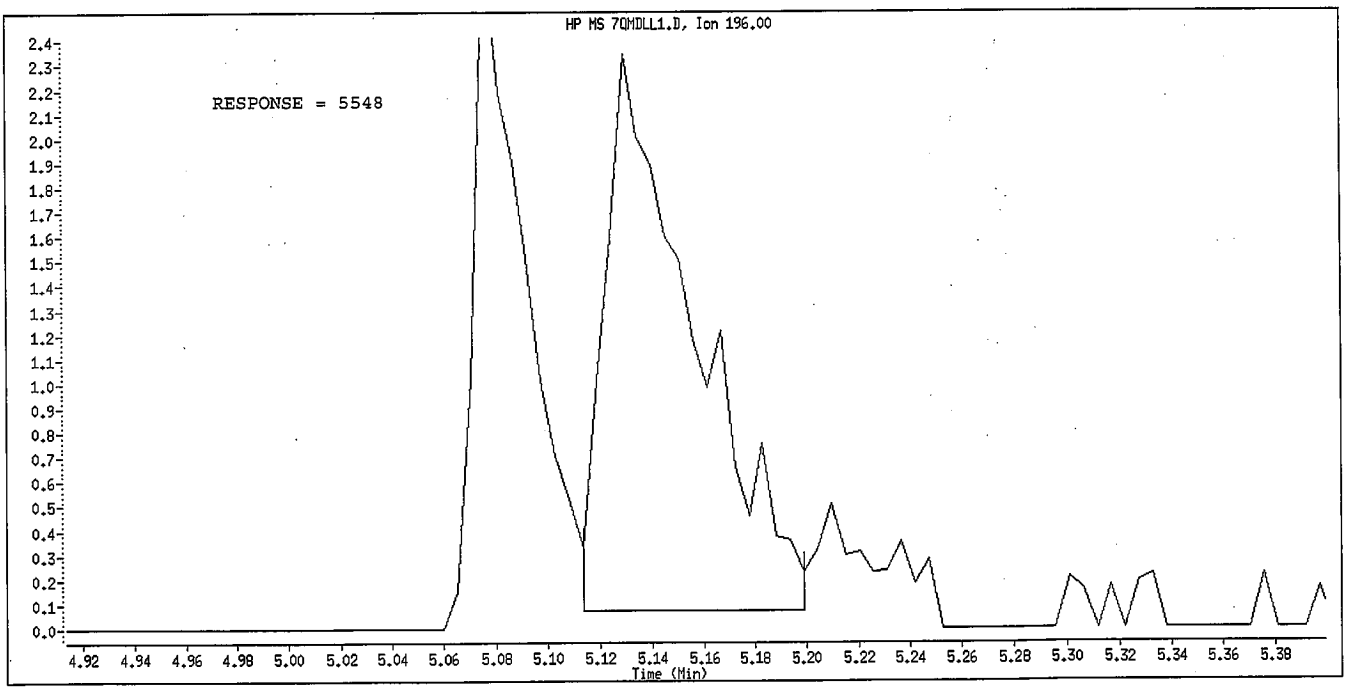
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 7QMDLL1.D
Inj. Date and Time: 01-MAR-2010 16:41
Instrument ID: a4hp7.i
Client ID:
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 03/03/2010



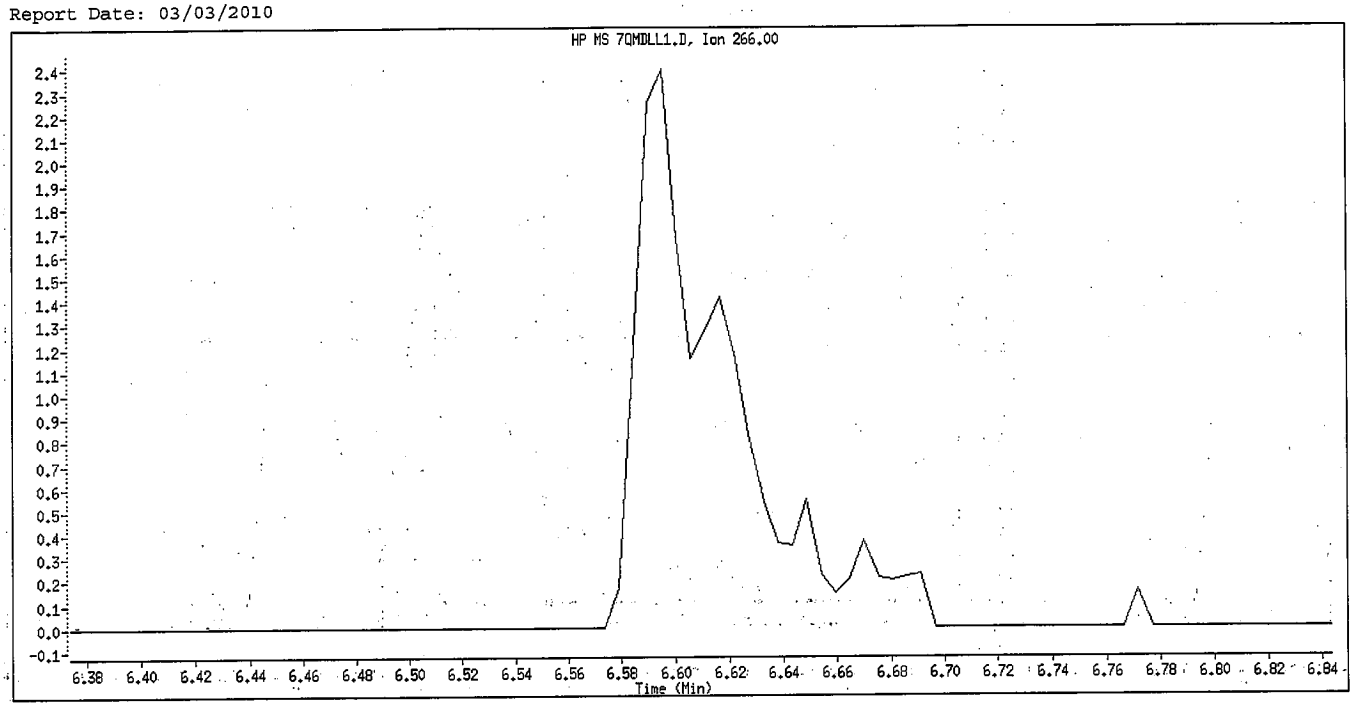
Original Integration



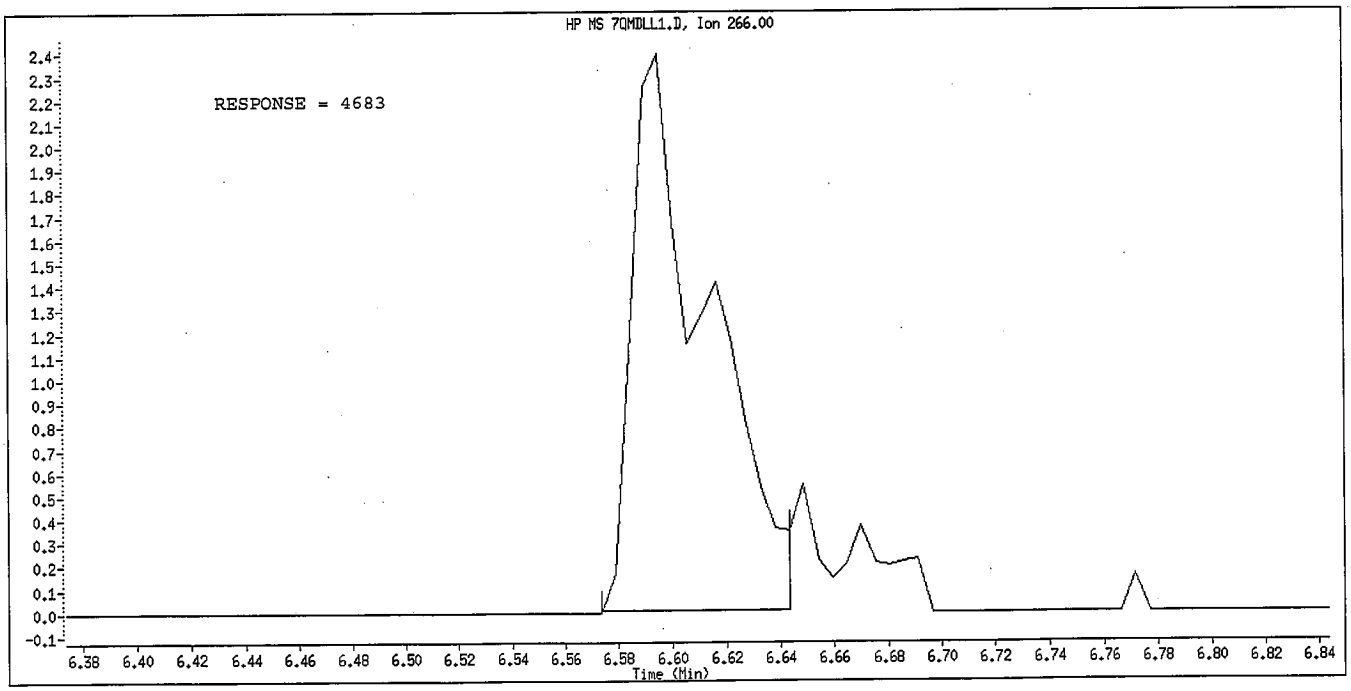
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 7QMDLL1.D
Inj. Date and Time: 01-MAR-2010 16:41
Instrument ID: a4hp7.i
Client ID:
Compound Name: Pentachlorophenol
CAS #: 87-86-5
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\7QMDLL2.D
Lab Smp Id: l2
Inj Date : 01-MAR-2010 16:22
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l2,00301a.b,8270C-625,1-827042d.sub,1,,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\8270C-625.m
Meth Date : 02-Mar-2010 10:20 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 5 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.476	3.471	(1.000)	349142	2.00000	
* 2	Naphthalene-d8	136	4.364	4.364	(1.000)	1404682	2.00000	
* 3	Acenaphthene-d10	164	5.632	5.632	(1.000)	722162	2.00000	
* 4	Phenanthrene-d10	188	6.717	6.717	(1.000)	1164406	2.00000	
* 5	Chrysene-d12	240	8.670	8.659	(1.000)	1311733	2.00000	
* 6	Perylene-d12	264	10.050	10.028	(1.000)	1192520	2.00000	
9	Pyridine	79	1.882	1.882	(0.542)	56670	0.25264	0.25264
10	N-Nitrosodimethylamine	74	1.850	1.850	(0.532)	33845	0.26150	0.26150
11	Ethyl methacrylate	69	2.085	2.086	(0.600)	50318	0.25692	0.25692
12	3-Chloropropionitrile	54	2.241	2.246	(0.645)	41004	0.26852	0.26852
13	Malononitrile	66	2.380	2.385	(0.685)	71443	0.24723	0.24723
209	Benzaldehyde	77	3.182	3.182	(0.915)	43208	0.25364	0.25364
21	Aniline	93	3.246	3.252	(0.934)	86246	0.24158	0.24158
22	Phenol	94	3.193	3.193	(0.918)	63152	0.22462	0.22462
23	bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	58932	0.23748	0.23748
24	2-Chlorophenol	128	3.332	3.337	(0.958)	52465	0.23425	0.23425
26	1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	58053	0.24907	0.24907
27	1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	57279	0.25007	0.25007
28	1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	54452	0.24442	0.24442
29	Benzyl Alcohol	108	3.546	3.546	(1.020)	34784	0.23641	0.23641
30	2-Methylphenol	108	3.610	3.610	(1.038)	40147	0.20563	0.20563
31	bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	102924	0.26221	0.26221
37	Acetophenone	105	3.733	3.738	(1.074)	76500	0.24660	0.24660
32	N-Nitroso-di-n-propylamine	70	3.722	3.728	(1.071)	40572	0.23800	0.23800
192	4-Methylphenol	108	3.711	3.712	(1.068)	33256	0.28442	0.28442
34	Hexachloroethane	117	3.834	3.835	(1.103)	22965	0.25205	0.25204
35	Nitrobenzene	77	3.861	3.861	(0.885)	59171	0.25560	0.25560
41	Isophorone	82	4.022	4.022	(0.922)	101520	0.23529	0.23529
42	2-Nitrophenol	139	4.086	4.086	(0.936)	25316	0.21993	0.21993
43	2,4-Dimethylphenol	107	4.091	4.086	(0.937)	36480	0.29769	0.29769
44	bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.951)	62513	0.24418	0.24418
46	2,4-Toluenediamene	121	5.188	5.188	(1.189)	22698	0.23950	0.23950
47	1,3,5-Trichlorobenzene	180	4.097	4.097	(0.939)	45481	0.25271	0.25271

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48	2,4-Dichlorophenol	162	4.268	4.252	(0.978)	23059	0.38741	0.38741
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.321	4.321	(0.990)	43804	0.24881	0.24881
51	Naphthalene	128	4.380	4.380	(1.004)	160991	0.25773	0.25773
52	4-Chloroaniline	127	4.401	4.402	(1.009)	44492	0.19264	0.19264
56	Hexachlorobutadiene	225	4.460	4.461	(1.022)	22430	0.24518	0.24518
210	Caprolactam	113	4.626	4.658	(1.060)	13887	0.19472	0.19472
57	1,2,3-Trichlorobenzene	180	4.482	4.482	(1.027)	39619	0.24277	0.24276
59	4-Chloro-3-Methylphenol	107	4.738	4.728	(1.086)	36081	0.19973	0.19973
62	2-Methylnaphthalene	142	4.872	4.872	(1.116)	79642	0.23580	0.23580
63	1-Methylnaphthalene	142	4.947	4.947	(1.134)	91239	0.23106	0.23106
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.886)	23031	0.22519	0.22519
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.900)	21003	0.20267	0.20267
67	2,4,5-Trichlorophenol	196	5.113	5.097	(0.908)	25809	0.22221	0.22221
211	1,1'-Biphenyl	154	5.204	5.204	(0.924)	123567	0.24668	0.24668
68	1,2,3,5-Tetrachlorobenzene	216	4.984	4.985	(0.885)	39151	0.23767	0.23767
70	2-Chloronaphthalene	162	5.225	5.231	(0.928)	88738	0.24520	0.24520
73	2-Nitroaniline	65	5.289	5.290	(0.939)	28396	0.22497	0.22497
74	1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.924)	36074	0.24179	0.24179
76	Dimethylphthalate	163	5.396	5.402	(0.958)	103338	0.24562	0.24562
78	2,6-Dinitrotoluene	165	5.450	5.450	(0.968)	21485	0.22048	0.22048
79	Acenaphthylene	152	5.530	5.536	(0.982)	148203	0.24764	0.24764
80	1,2-Dinitrobenzene	168	5.498	5.498	(0.976)	10065	0.20923	0.20923
81	3-Nitroaniline	138	5.584	5.584	(0.991)	27031	0.23882	0.23882
82	Acenaphthene	153	5.658	5.659	(1.005)	97722	0.24630	0.24630
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.781	5.782	(1.027)	133419	0.25662	0.25662
87	2,4-Dinitrotoluene	165	5.744	5.750	(1.020)	28326	0.21123	0.21122
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.036)	19680	0.19929	0.19929
93	Diethylphthalate	149	5.904	5.905	(1.048)	109852	0.24963	0.24963
94	Fluorene	166	6.027	6.033	(1.070)	108755	0.24332	0.24332
95	4-Chlorophenyl-phenylether	204	6.011	6.012	(1.067)	47708	0.24138	0.24138
96	4-Nitroaniline	138	6.038	6.028	(1.072)	23816	0.20445	0.20445
98	4,6-Dinitro-2-methylphenol	198	6.049	6.049	(0.900)	13710	0.16088	0.16088
99	N-Nitrosodiphenylamine	169	6.092	6.097	(0.907)	80275	0.24696	0.24696
100	1,2-Diphenylhydrazine	77	6.124	6.129	(0.912)	123506	0.25374	0.25374
106	4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	27837	0.24247	0.24247
107	Hexachlorobenzene	284	6.439	6.440	(0.959)	26432	0.23750	0.23750
212	Atrazine	200	6.455	6.461	(0.961)	16500	0.22500	0.22500
111	Pentachlorophenol	266	6.584	6.573	(0.980)	26193	0.65134	0.65134
115	Phenanthrene	178	6.733	6.739	(1.002)	155381	0.24700	0.24700
116	Anthracene	178	6.771	6.776	(1.008)	161441	0.25481	0.25481
119	Carbazole	167	6.878	6.878	(1.024)	145163	0.23957	0.23957
120	Di-n-Butylphthalate	149	7.081	7.087	(1.054)	177707	0.25524	0.25524
123	Fluoranthene	202	7.605	7.606	(1.132)	156251	0.24522	0.24522
124	Benzidine	184	7.680	7.675	(0.886)	73336	0.19962	0.19962
125	Pyrene	202	7.776	7.777	(0.897)	165409	0.25613	0.25613
131	Butylbenzylphthalate	149	8.188	8.189	(0.944)	75752	0.23886	0.23886
133	3,3'-Dimethoxybenzidine	244	8.584	8.584	(0.990)	27829	0.20774	0.20774
135	3,3'-Dichlorobenzidine	252	8.622	8.622	(0.994)	54255	0.23031	0.23030
136	Benzo(a)Anthracene	228	8.664	8.665	(0.999)	160357	0.24765	0.24765
137	Chrysene	228	8.691	8.697	(1.002)	154532	0.25671	0.25671
138	4,4'-Methylene bis(o-chloroan	231	8.616	8.611	(0.994)	26366	0.21640	0.21640

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.595	8.595	(0.991)	107915	0.23914	0.23914
140 Di-n-octylphthalate	149	9.114	9.114	(0.907)	162063	0.22632	0.22632
141 Benzo(b)fluoranthene	252	9.622	9.622	(0.957)	136101	0.22654	0.22654 (H)
142 Benzo(k)fluoranthene	252	9.648	9.654	(0.960)	166599	0.25094	0.25094
146 Benzo(a)pyrene	252	9.980	9.986	(0.993)	137100	0.23885	0.23885
149 Indeno(1,2,3-cd)pyrene	276	11.515	11.531	(1.146)	145789	0.22787	0.22787
150 Dibenz(a,h)anthracene	278	11.520	11.537	(1.146)	125874	0.23607	0.23607
151 Benzo(g,h,i)perylene	276	11.970	11.981	(1.191)	118829	0.22730	0.22730
198 1,4-Dioxane	88	1.690	1.690	(0.486)	22190	0.26291	0.26291
101 Diphenylamine	169	6.092	6.097	(0.907)	80275	0.24696	0.24696

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\cansvr11\dd\chem\MSS\a4hp7,i\00301t,b\7QHDLL2,D
Date : 01-MAR-2010 16:22
Client ID:
Sample Info: 12,00301a,b,82700-625,1-827042d,sub,1,,2
Column phase: db5,625
Instrument: a4hp7,i
Operator: 001710
Column diameter: 0.32
Page 1
Y (x1^6)
Min
-Pyridine+
-Ethyl methacrylate
-3-Chloropropionitrile
-Malononitrile
-Benzaldehyde+
-Aniline+
2-Chlorophenol
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-2,4-Dichlorophenol
-Hexachlorobutadiene+
Naphthalene-d8+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-2,4-Toluenediamene+
-2-Nitroaniline
-Dimethylphthalate
-2,6-Dinitrotoluene
-Acenaphthylene
Acenaphthene-d10+
\\cansvr11\dd\chem\MSS\a4hp7,i\00301t,b\7QHDLL2,D
-Dibenzofuran+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
-Anthracene
Phenanthrene-d10+
-Carbazole
-Di-n-Butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Butylbenzylphthalate
-3,3'-Dimethoxybenzidine+
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(k)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\7QMDLL3.D
Lab Smp Id: l3
Inj Date : 01-MAR-2010 16:02
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l3,00301a.b,8270C-625,1-827042d.sub,1,,3
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\8270C-625.m
Meth Date : 02-Mar-2010 10:20 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 4 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
*	1 1,4-Dichlorobenzene-d4	152	3.476	3.471	(1.000)	329744	2.00000	
*	2 Naphthalene-d8	136	4.364	4.364	(1.000)	1350799	2.00000	
*	3 Acenaphthene-d10	164	5.632	5.632	(1.000)	696034	2.00000	
*	4 Phenanthrene-d10	188	6.718	6.717	(1.000)	1111400	2.00000	
*	5 Chrysene-d12	240	8.670	8.659	(1.000)	1266655	2.00000	
*	6 Perylene-d12	264	10.050	10.028	(1.000)	1163422	2.00000	
	9 Pyridine	79	1.882	1.882	(0.542)	102617	0.48439	0.48439
	10 N-Nitrosodimethylamine	74	1.845	1.850	(0.531)	60220	0.49266	0.49266
	11 Ethyl methacrylate	69	2.086	2.086	(0.600)	90232	0.48782	0.48782
	12 3-Chloropropionitrile	54	2.241	2.246	(0.645)	72200	0.50062	0.50062
	13 Malononitrile	66	2.380	2.385	(0.685)	137230	0.50283	0.50283
	209 Benzaldehyde	77	3.182	3.182	(0.915)	79204	0.47034	0.47034
	21 Aniline	93	3.246	3.252	(0.934)	167243	0.49603	0.49602
	22 Phenol	94	3.193	3.193	(0.918)	124561	0.46910	0.46910
	23 bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	112875	0.48161	0.48161
	24 2-Chlorophenol	128	3.332	3.337	(0.958)	99451	0.47016	0.47016
	26 1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	107105	0.48655	0.48655
	27 1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	106528	0.49244	0.49244
	28 1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	100774	0.47897	0.47897
	29 Benzyl Alcohol	108	3.546	3.546	(1.020)	64342	0.46302	0.46302
	30 2-Methylphenol	108	3.605	3.610	(1.037)	81763	0.44342	0.44342
	31 bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	186617	0.50340	0.50340
	37 Acetophenone	105	3.733	3.738	(1.074)	141363	0.48249	0.48249
	32 N-Nitroso-di-n-propylamine	70	3.722	3.728	(1.071)	77840	0.48348	0.48348
	192 4-Methylphenol	108	3.706	3.712	(1.066)	71664	0.49618	0.49618
	34 Hexachloroethane	117	3.835	3.835	(1.103)	41432	0.48147	0.48147
	35 Nitrobenzene	77	3.861	3.861	(0.885)	109206	0.49056	0.49056
	41 Isophorone	82	4.017	4.022	(0.920)	197983	0.47717	0.47717
	42 2-Nitrophenol	139	4.086	4.086	(0.936)	49936	0.45111	0.45111
	43 2,4-Dimethylphenol	107	4.086	4.086	(0.936)	71804	0.48903	0.48903
	44 bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.951)	116583	0.47355	0.47355
	46 2,4-Toluenediamene	121	5.188	5.188	(1.189)	52734	0.57863	0.57863
	47 1,3,5-Trichlorobenzene	180	4.097	4.097	(0.939)	83120	0.48027	0.48027

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48	2,4-Dichlorophenol	162	4.263	4.252	(0.977)	40052	0.51149	0.51149
49	Benzoic Acid	122	4.118	4.177	(0.944)	30796	1.26081	1.2608(QM)
50	1,2,4-Trichlorobenzene	180	4.316	4.321	(0.989)	83661	0.49416	0.49416
51	Naphthalene	128	4.380	4.380	(1.004)	304200	0.50643	0.50642
52	4-Chloroaniline	127	4.402	4.402	(1.009)	103712	0.46697	0.46697
56	Hexachlorobutadiene	225	4.461	4.461	(1.022)	41925	0.47656	0.47656
210	Caprolactam	113	4.626	4.658	(1.060)	28952	0.42214	0.42214
57	1,2,3-Trichlorobenzene	180	4.482	4.482	(1.027)	73214	0.46651	0.46651
59	4-Chloro-3-Methylphenol	107	4.733	4.728	(1.085)	75109	0.43235	0.43235
62	2-Methylnaphthalene	142	4.872	4.872	(1.116)	153166	0.47158	0.47158
63	1-Methylnaphthalene	142	4.947	4.947	(1.134)	180287	0.47478	0.47478
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.886)	44266	0.44908	0.44908
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.900)	43613	0.43665	0.43664
67	2,4,5-Trichlorophenol	196	5.108	5.097	(0.907)	49312	0.44051	0.44051
211	1,1'-Biphenyl	154	5.204	5.204	(0.924)	231945	0.48042	0.48042
68	1,2,3,5-Tetrachlorobenzene	216	4.985	4.985	(0.885)	77547	0.48842	0.48842
70	2-Chloronaphthalene	162	5.225	5.231	(0.928)	167879	0.48130	0.48130
73	2-Nitroaniline	65	5.284	5.290	(0.938)	57700	0.47430	0.47430
74	1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.924)	70524	0.49043	0.49043
76	Dimethylphthalate	163	5.397	5.402	(0.958)	197031	0.48589	0.48589
78	2,6-Dinitrotoluene	165	5.450	5.450	(0.968)	40956	0.43608	0.43608
79	Acenaphthylene	152	5.536	5.536	(0.983)	283735	0.49190	0.49190
80	1,2-Dinitrobenzene	168	5.498	5.498	(0.976)	20118	0.43391	0.43391
81	3-Nitroaniline	138	5.584	5.584	(0.991)	50591	0.46375	0.46375
82	Acenaphthene	153	5.659	5.659	(1.005)	186551	0.48783	0.48783
83	2,4-Dinitrophenol	184	5.664	5.659	(1.006)	41963	1.17921	1.1792(Q)
85	4-Nitrophenol	109	5.723	5.685	(1.016)	20496	0.58332	0.58332(QM)
86	Dibenzofuran	168	5.782	5.782	(1.027)	248013	0.49495	0.49494
87	2,4-Dinitrotoluene	165	5.744	5.750	(1.020)	58672	0.45394	0.45394
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.036)	45117	0.47403	0.47403
93	Diethylphthalate	149	5.905	5.905	(1.048)	208971	0.49270	0.49270
94	Fluorene	166	6.028	6.033	(1.070)	215849	0.50105	0.50105
95	4-Chlorophenyl-phenylether	204	6.012	6.012	(1.067)	92109	0.48352	0.48352
96	4-Nitroaniline	138	6.033	6.028	(1.071)	46773	0.41661	0.41661
98	4,6-Dinitro-2-methylphenol	198	6.049	6.049	(0.900)	27759	0.34128	0.34128
99	N-Nitrosodiphenylamine	169	6.092	6.097	(0.907)	152151	0.49041	0.49041
100	1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	237139	0.51043	0.51043
106	4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	51966	0.47424	0.47424
107	Hexachlorobenzene	284	6.440	6.440	(0.959)	51290	0.48285	0.48285
212	Atrazine	200	6.456	6.461	(0.961)	35471	0.50676	0.50676
111	Pentachlorophenol	266	6.579	6.573	(0.979)	60150	1.08668	1.0867
115	Phenanthrene	178	6.734	6.739	(1.002)	302002	0.50298	0.50298
116	Anthracene	178	6.771	6.776	(1.008)	310678	0.51375	0.51374
119	Carbazole	167	6.878	6.878	(1.024)	282889	0.48914	0.48914
120	Di-n-Butylphthalate	149	7.087	7.087	(1.055)	345914	0.52053	0.52053
123	Fluoranthene	202	7.606	7.606	(1.132)	297989	0.48997	0.48997
124	Benzidine	184	7.680	7.675	(0.886)	158690	0.44733	0.44733
125	Pyrene	202	7.777	7.777	(0.897)	324209	0.51989	0.51989
131	Butylbenzylphthalate	149	8.189	8.189	(0.944)	149145	0.48702	0.48702
133	3,3'-Dimethoxybenzidine	244	8.584	8.584	(0.990)	59881	0.46291	0.46291
135	3,3'-Dichlorobenzidine	252	8.622	8.622	(0.994)	106423	0.46783	0.46783
136	Benzo(a)Anthracene	228	8.665	8.665	(0.999)	310761	0.49701	0.49701
137	Chrysene	228	8.691	8.697	(1.002)	296247	0.50963	0.50963
138	4,4'-Methylene bis(o-chloroan	231	8.611	8.611	(0.993)	54897	0.46661	0.46660

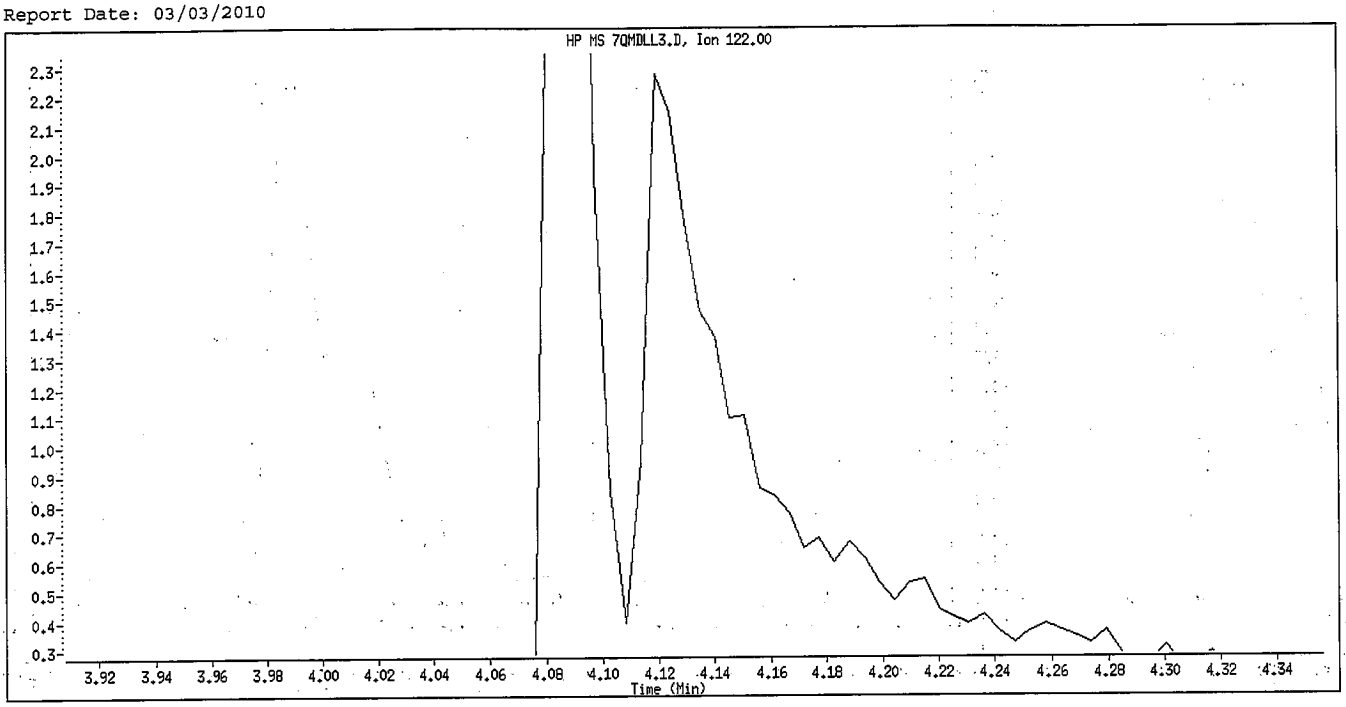
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.595	8.595	(0.991)	218889	0.50232	0.50232
140 Di-n-octylphthalate	149	9.114	9.114	(0.907)	333443	0.47729	0.47729
141 Benzo(b)fluoranthene	252	9.617	9.622	(0.957)	272892	0.46558	0.46558(H)
142 Benzo(k)fluoranthene	252	9.643	9.654	(0.960)	318335	0.49148	0.49148
146 Benzo(a)pyrene	252	9.986	9.986	(0.994)	262194	0.46821	0.46821
149 Indeno(1,2,3-cd)pyrene	276	11.515	11.531	(1.146)	300283	0.48108	0.48108
150 Dibenz(a,h)anthracene	278	11.521	11.537	(1.146)	240220	0.46179	0.46179
151 Benzo(g,h,i)perylene	276	11.965	11.981	(1.191)	236772	0.46422	0.46422
198 1,4-Dioxane	88	1.690	1.690	(0.486)	39269	0.49263	0.49263
101 Diphenylamine	169	6.092	6.097	(0.907)	152151	0.49041	0.49041

QC Flag Legend

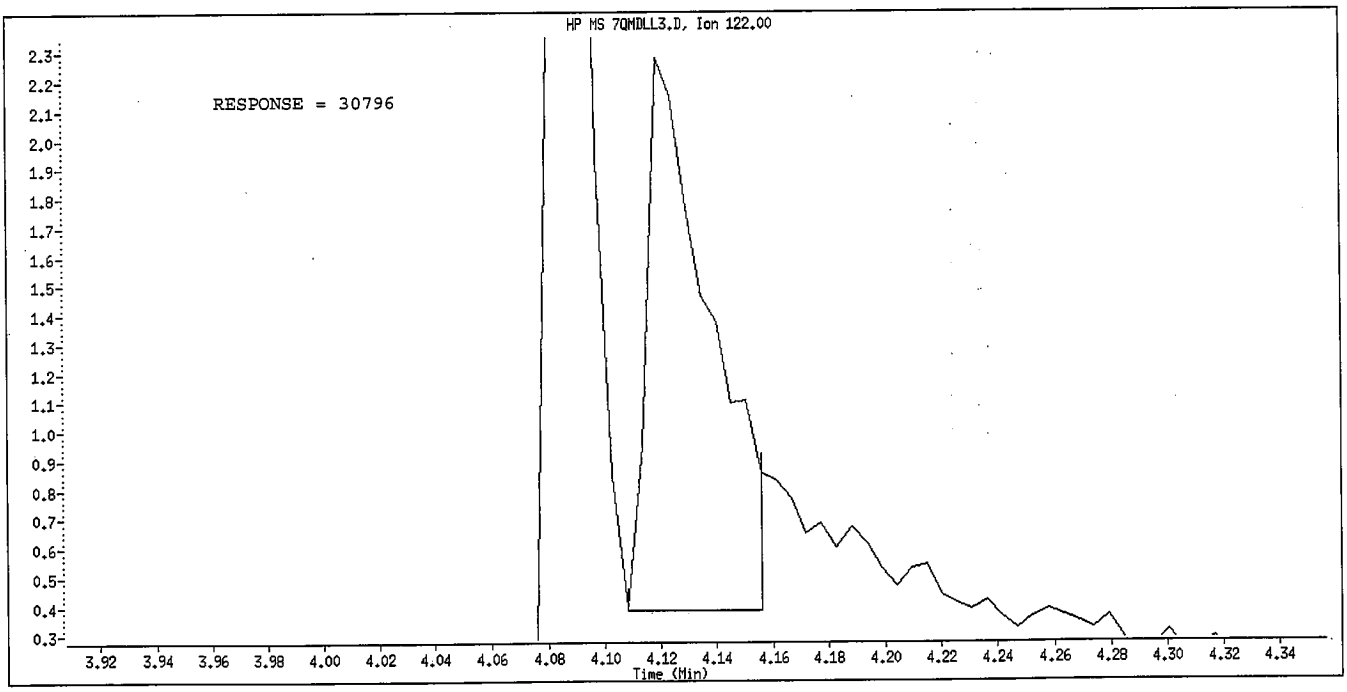
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\003012.b\7QHDLL3.D
Date : 01-MAR-2010 16:02
Client ID:
Sample Info: 13,003012,b,8270C-625,1-827042d,sub,1,,3
Column phase: db5.625
Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32
\\cansvr11\dd\chem\MSS\a4hp7.i\003012.b\7QHDLL3.D
Y (x10^6)
Min
-Pyridine+
-Ethyl methacrylate
-3-Chloropropionitrile
-Malononitrile
-Benzaldehyde+
-Aniline+
-2-Chlorophenol
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-2,4-Dichlorophenol
-Hexachlorobutadiene+
Naphthalene-d8+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-2,4-Toluenediamene+
-2-Nitroaniline
-Dimethylphthalate
-Acenaphthylene
-Dibenzofuran+
Acenaphthene-d10+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
-Anthracene
-Carbazole
Phenanthrene-d10+
-Di-n-Butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Butylbenzylphthalate
-3,3'-Dimethoxybenzidine+
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(k)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene

Data File Name: 7QMDLL3.D
Inj. Date and Time: 01-MAR-2010 16:02
Instrument ID: a4hp7.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 03/03/2010



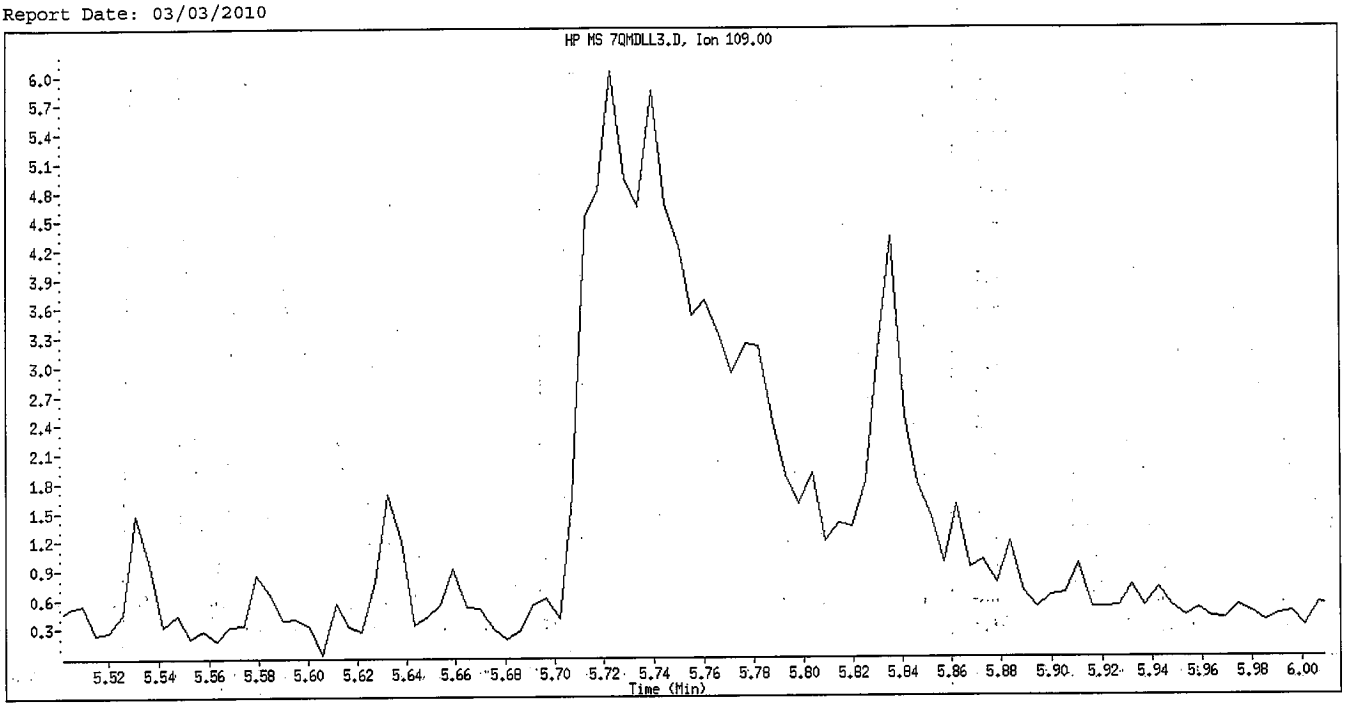
Original Integration



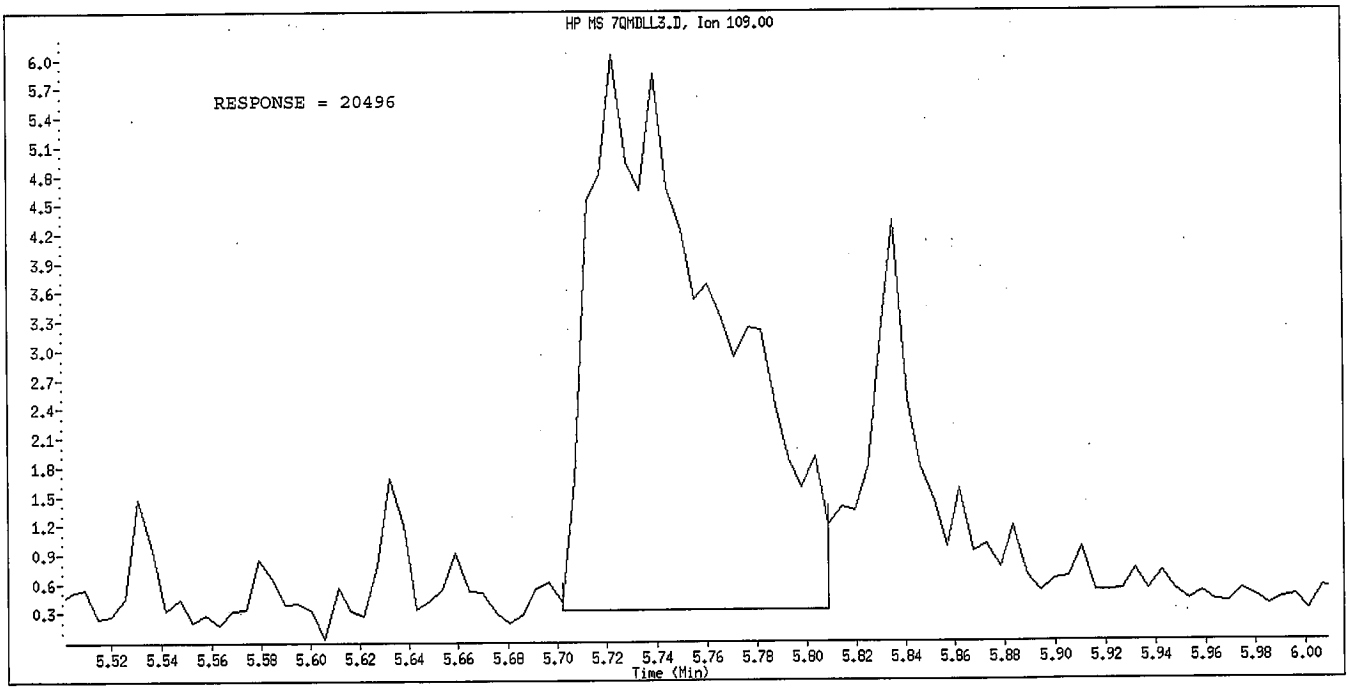
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 7QMDLL3.D
Inj. Date and Time: 01-MAR-2010 16:02
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

Date : 01-MAR-2010 15:04

Client ID:

Instrument: a4hp7.i

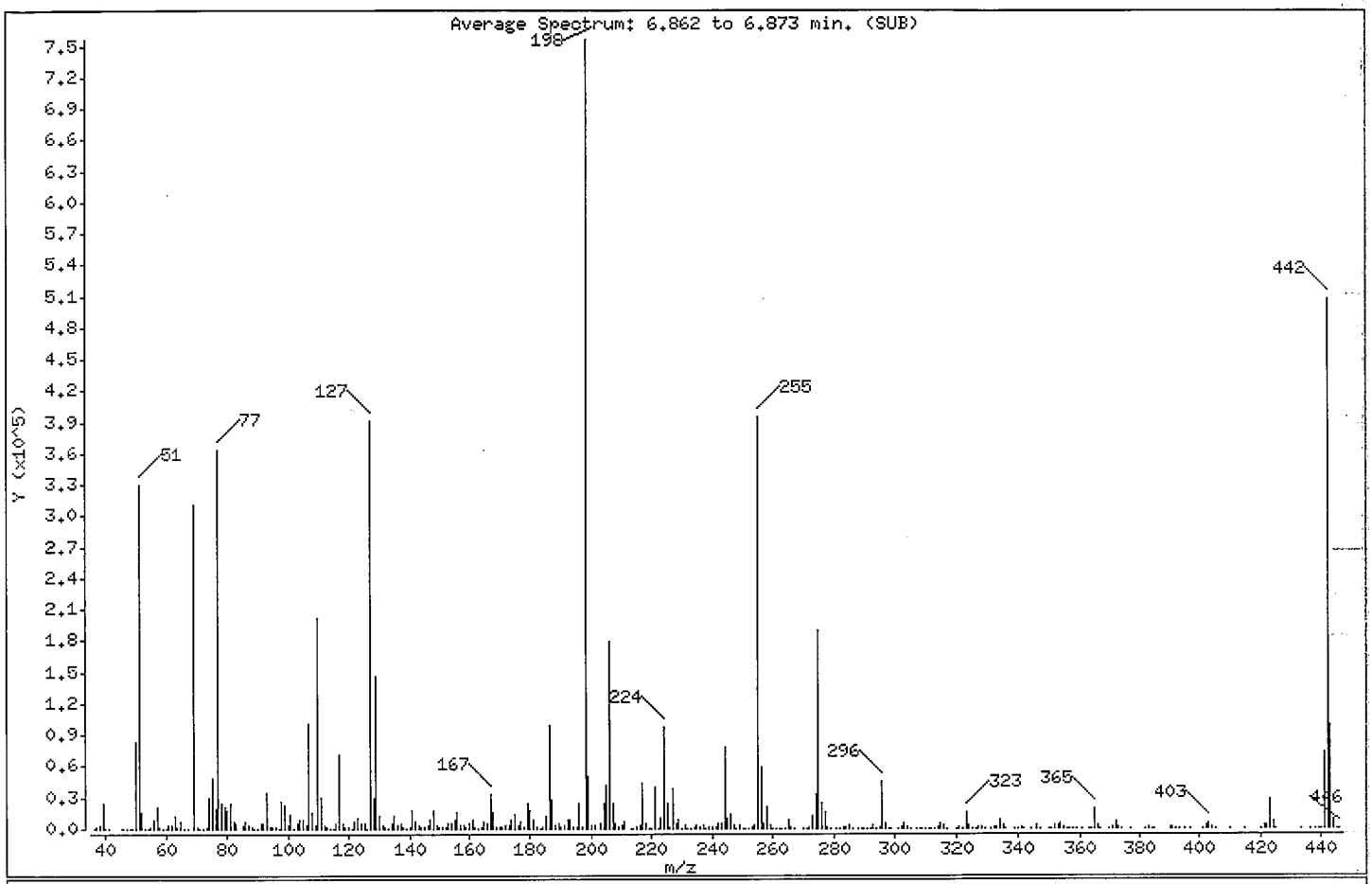
Sample Info: dftpp,00301a.b,dftpp390

Operator: 001710

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	43.64
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.24
70	Less than 2.00% of mass 69	0.21 (0.51)
127	25.00 - 75.00% of mass 198	51.77
197	Less than 1.00% of mass 198	0.19
199	5.00 - 9.00% of mass 198	6.67
275	10.00 - 30.00% of mass 198	25.17
365	Greater than 0.75% of mass 198	2.58
441	Present, but less than mass 443	9.69
442	40.00 - 110.00% of mass 198	67.11
443	15.00 - 24.00% of mass 442	13.02 (19.40)

Date : 01-MAR-2010 15:04

Client ID:

Instrument: a4hp7.i

Sample Info: dftpp,00301a.b,dftpp390

Operator: 001710

Column phase:

Column diameter: 2.00

Data File: 7DF0301.D
Spectrum: Average Spectrum: 6.862 to 6.873 min. (SUB)
Location of Maximum: 198.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	248	129.00	145344	219.00	728	313.00	351
37.00	1319	130.00	12545	220.00	74	314.00	2176
38.00	3516	131.00	2771	221.00	40784	315.00	4558
39.00	25024	132.00	1317	222.00	869	316.00	2858
40.00	588	133.00	739	223.00	10149	317.00	540
41.00	393	134.00	4746	224.00	97968	320.00	166
45.00	595	135.00	11454	225.00	24504	321.00	1452
46.00	214	136.00	4329	226.00	2562	322.00	725
47.00	221	137.00	5428	227.00	39032	323.00	16113
48.00	358	138.00	1147	228.00	5421	324.00	2832
49.00	612	139.00	836	229.00	8054	325.00	438
50.00	83784	140.00	1661	230.00	815	326.00	393
51.00	330112	141.00	17440	231.00	3697	327.00	2391
52.00	15203	142.00	6249	232.00	746	328.00	1161
53.00	716	143.00	3325	233.00	586	329.00	310
54.00	61	144.00	902	234.00	2425	331.00	89
55.00	974	145.00	1267	235.00	2781	332.00	1078
56.00	8408	146.00	3098	236.00	1770	333.00	1647
57.00	21088	147.00	9293	237.00	2901	334.00	9337
58.00	880	148.00	17704	238.00	392	335.00	2659
59.00	112	149.00	3796	239.00	1491	336.00	359
60.00	106	150.00	1249	240.00	1121	339.00	213
61.00	3964	151.00	2378	241.00	2283	340.00	223
62.00	4262	152.00	1666	242.00	5114	341.00	1440
63.00	12058	153.00	5725	243.00	5594	342.00	578
64.00	1735	154.00	4814	244.00	78776	344.00	113
65.00	6405	155.00	9520	245.00	10107	346.00	3173
66.00	90	156.00	14945	246.00	14207	347.00	536
67.00	544	157.00	2913	247.00	3260	350.00	55
69.00	311872	158.00	3610	248.00	809	351.00	331
70.00	1589	159.00	2490	249.00	2989	352.00	4197
71.00	327	160.00	5592	250.00	550	353.00	3295
72.00	223	161.00	8191	251.00	611	354.00	5650
73.00	2168	162.00	2360	252.00	664	355.00	1096
74.00	29912	163.00	778	253.00	1386	356.00	60

Date : 01-MAR-2010 15:04

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00301a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0301.D
Spectrum: Average Spectrum: 6.862 to 6.873 min. (SUB)
Location of Maximum: 198.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	48576	164.00	1108	254.00	3062	357.00	53
76.00	18304	165.00	6170	255.00	394112	358.00	115
77.00	364224	166.00	5601	256.00	59000	359.00	246
78.00	24144	167.00	33448	257.00	4584	361.00	70
79.00	20872	168.00	15467	258.00	21120	363.00	51
80.00	16984	169.00	2597	259.00	3399	364.00	262
81.00	24048	170.00	1189	260.00	661	365.00	19536
82.00	6402	171.00	1438	261.00	773	366.00	2663
83.00	5200	172.00	2898	262.00	76	367.00	301
85.00	4298	173.00	3970	263.00	260	370.00	476
86.00	6234	174.00	7849	264.00	601	371.00	1227
87.00	2845	175.00	13275	265.00	8345	372.00	7743
88.00	1166	176.00	4250	266.00	1190	373.00	1795
89.00	717	177.00	6526	267.00	202	374.00	244
90.00	133	178.00	2471	270.00	615	377.00	239
91.00	5051	179.00	23816	271.00	720	382.00	65
92.00	5799	180.00	16872	272.00	1269	383.00	2265
93.00	35240	181.00	8362	273.00	12265	384.00	538
94.00	2428	182.00	1389	274.00	32496	385.00	146
95.00	978	183.00	808	275.00	190336	390.00	882
96.00	1963	184.00	2177	276.00	24320	391.00	1033
97.00	511	185.00	12916	277.00	15326	392.00	726
98.00	25352	186.00	99832	278.00	2531	393.00	51
99.00	22256	187.00	27840	279.00	630	395.00	63
100.00	3053	188.00	3103	281.00	287	397.00	82
101.00	13608	189.00	5907	282.00	432	401.00	517
102.00	659	190.00	1003	283.00	1602	402.00	3316
103.00	4575	191.00	3062	284.00	995	403.00	4517
104.00	9121	192.00	8257	285.00	2841	404.00	1676
105.00	7858	193.00	8524	286.00	415	405.00	230
106.00	2623	194.00	1996	288.00	59	410.00	65
107.00	101288	195.00	1513	289.00	576	415.00	273
108.00	15949	196.00	25144	290.00	481	420.00	143
109.00	2749	197.00	1437	291.00	489	421.00	3184
110.00	201728	198.00	756352	292.00	860	422.00	3491

Date : 01-MAR-2010 15:04

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00301a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0301.D
Spectrum: Average Spectrum: 6.862 to 6.873 min. (SUB)
Location of Maximum: 198.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	29392	199.00	50416	293.00	3348	423.00	28632
112.00	3625	200.00	3633	294.00	818	424.00	6145
113.00	1164	201.00	3087	295.00	1206	425.00	513
114.00	265	203.00	4645	296.00	45408	433.00	53
115.00	497	204.00	24264	297.00	6064	436.00	151
116.00	5933	205.00	41520	298.00	433	438.00	201
117.00	71248	206.00	178688	299.00	162	439.00	138
118.00	5326	207.00	23672	301.00	627	440.00	80
119.00	873	208.00	5328	302.00	978	441.00	73288
120.00	1555	209.00	2056	303.00	5439	442.00	507584
121.00	276	210.00	2653	304.00	1636	443.00	98472
122.00	6846	211.00	6681	305.00	143	444.00	8893
123.00	9901	213.00	686	307.00	66	445.00	585
124.00	4486	214.00	59	308.00	840	446.00	51
125.00	4841	215.00	1824	309.00	534		
126.00	75	216.00	3593	310.00	622		
127.00	391552	217.00	42888	311.00	65		
128.00	30176	218.00	5535	312.00	138		

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\7DF0301T.D

Date : 01-MAR-2010 15:04

Client ID:

Instrument: a4hp7.i

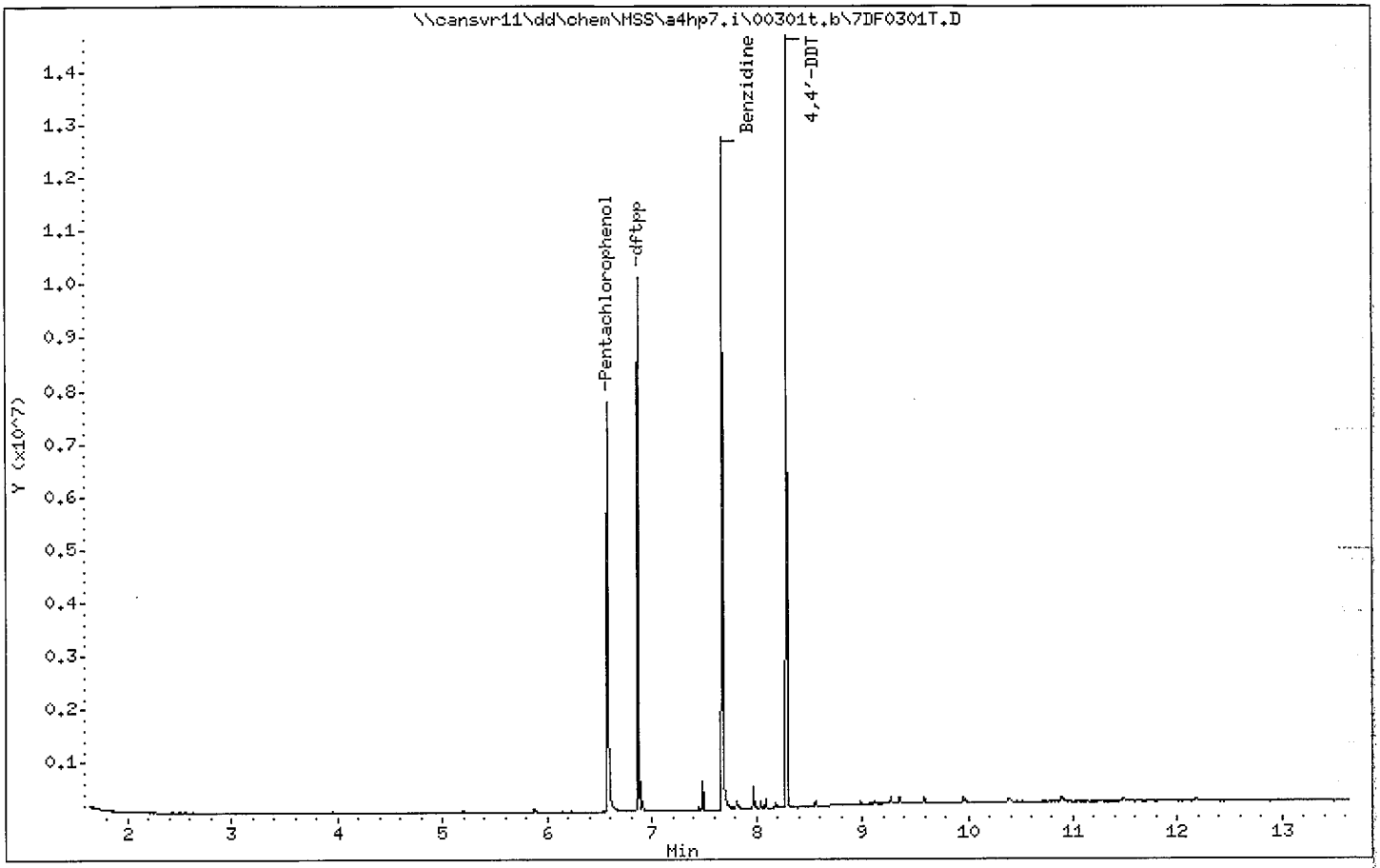
Sample Info: dftpp,00301a.b,dftpp390

Volume Injected (uL): 1.0

Operator: 001710

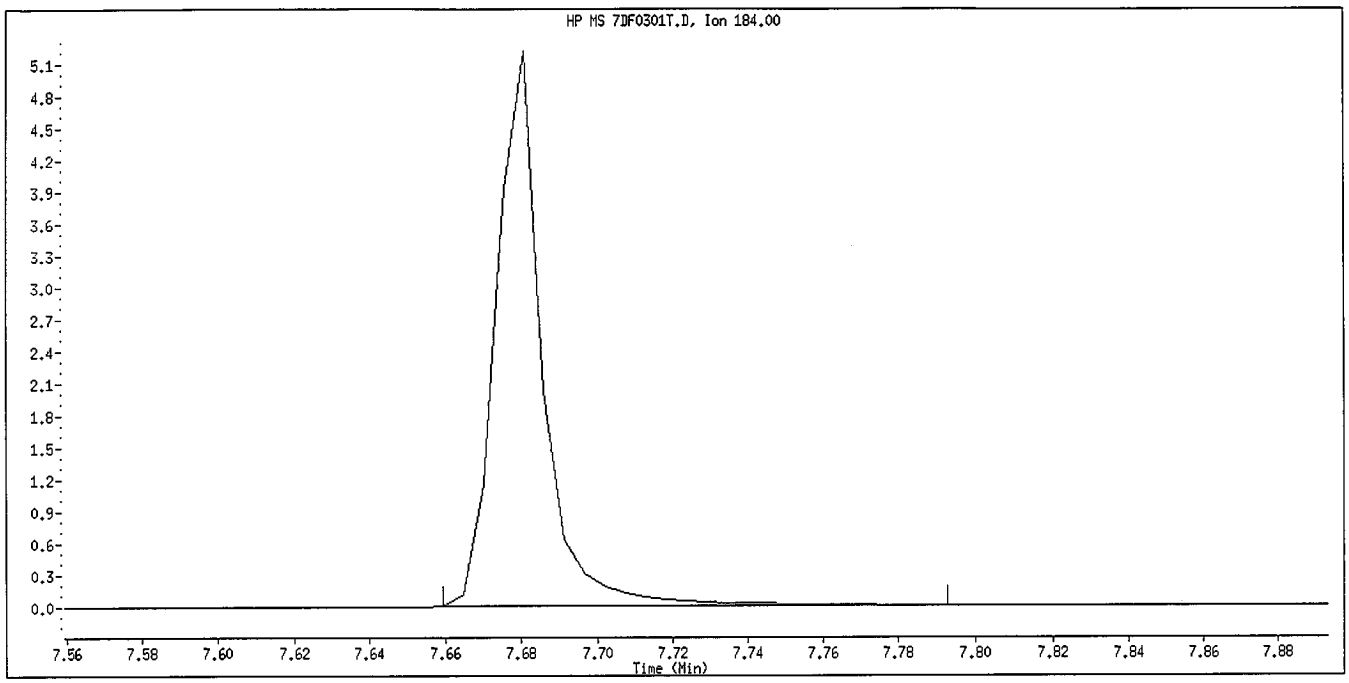
Column phase:

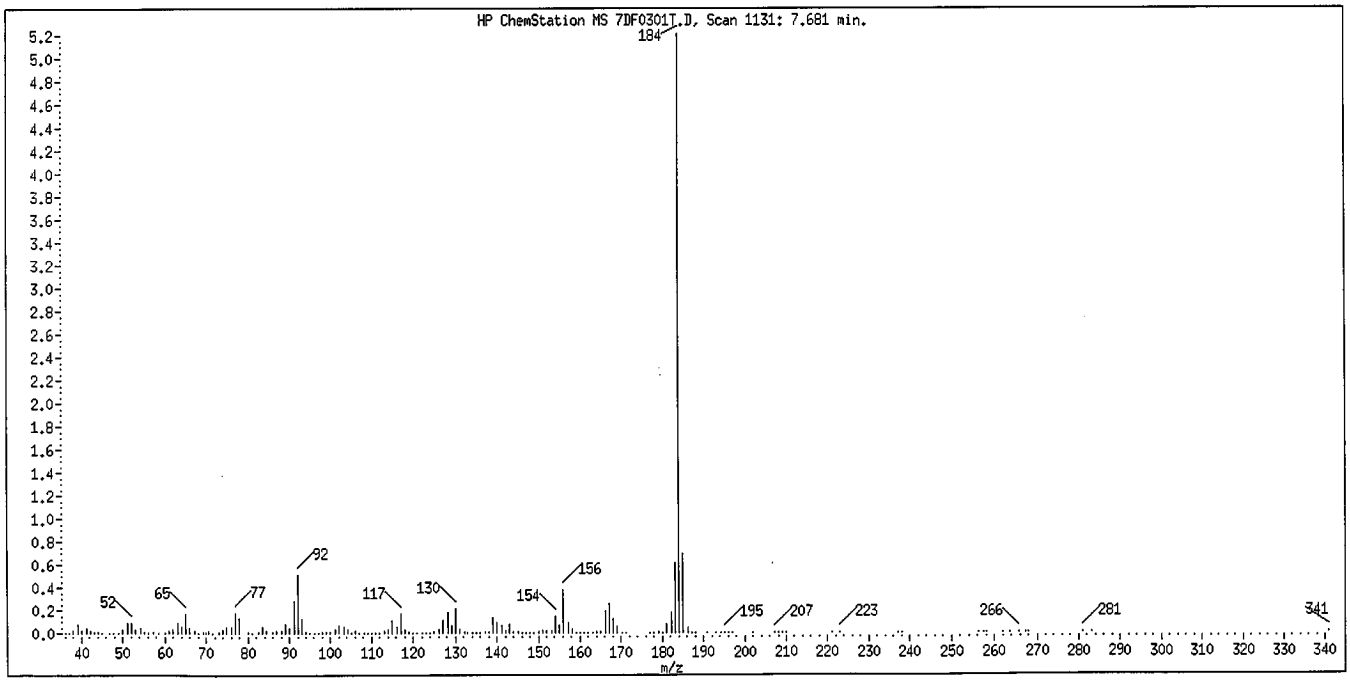
Column diameter: 2.00



Data File: 7DF0301T.D
Inj Date: 01-MAR-2010 15:04
Instrument ID: a4hp7.i
Compound Name: Benzidine
Operator Name: 001710
Report Date: 03/02/2010

TAILING FACTOR

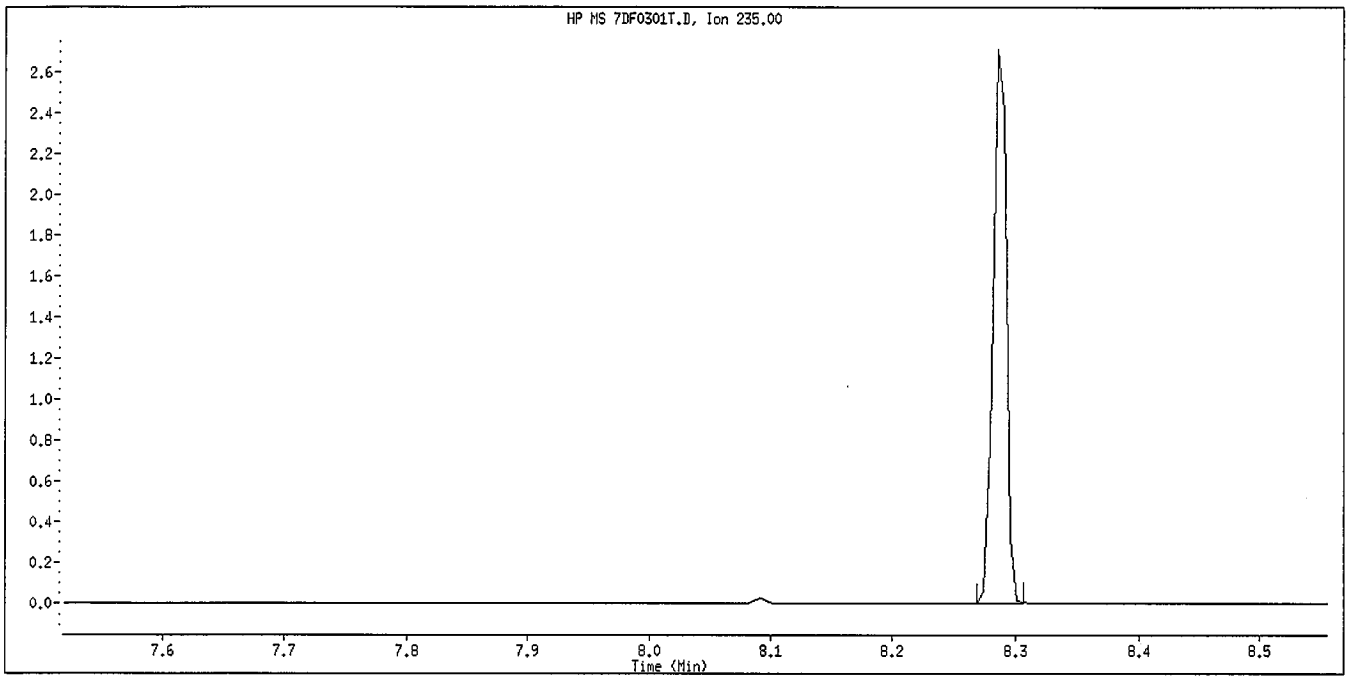




Tailing Factor = 0.897 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 7.666785 T2 = 7.6807 T3 = 7.693178

Data File: 7DF0301T.D
Inj Date: 01-MAR-2010 15:04
Instrument ID: a4hp7.i
Compound Name: 4,4'-DDT
Operator Name: 001710
Report Date: 03/02/2010

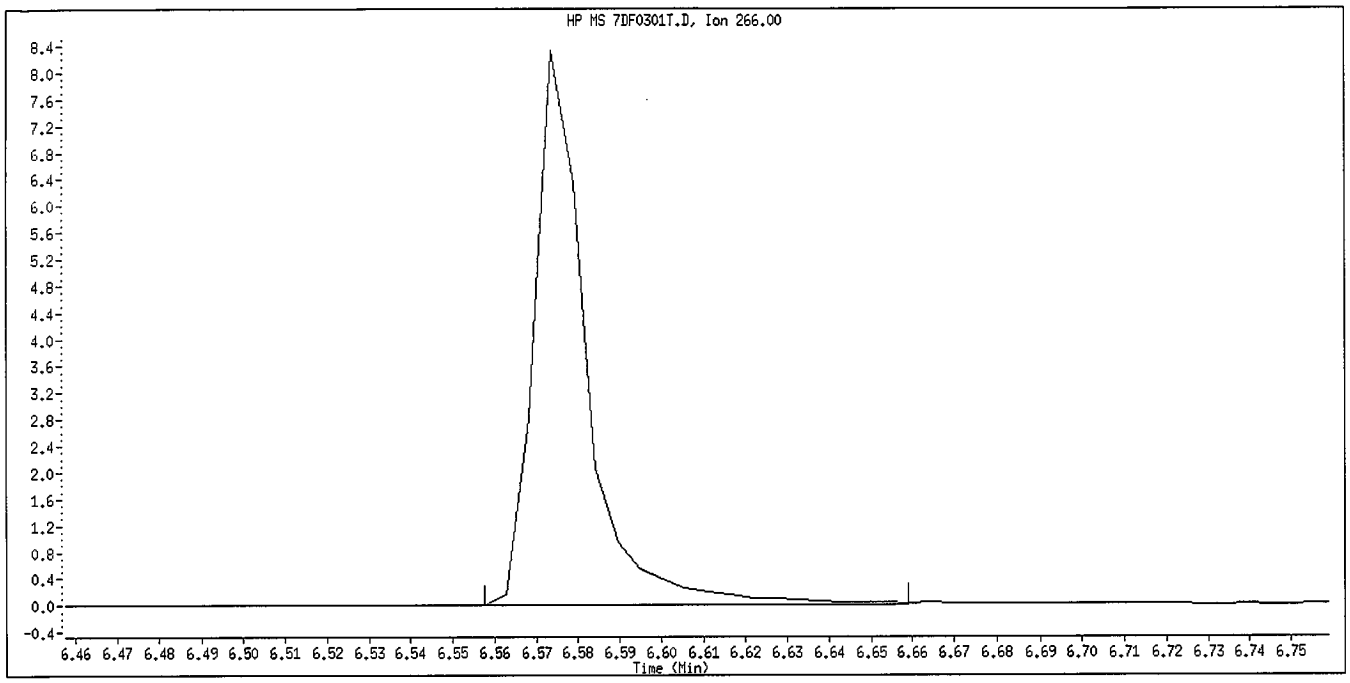
DEGRADATION REPORT

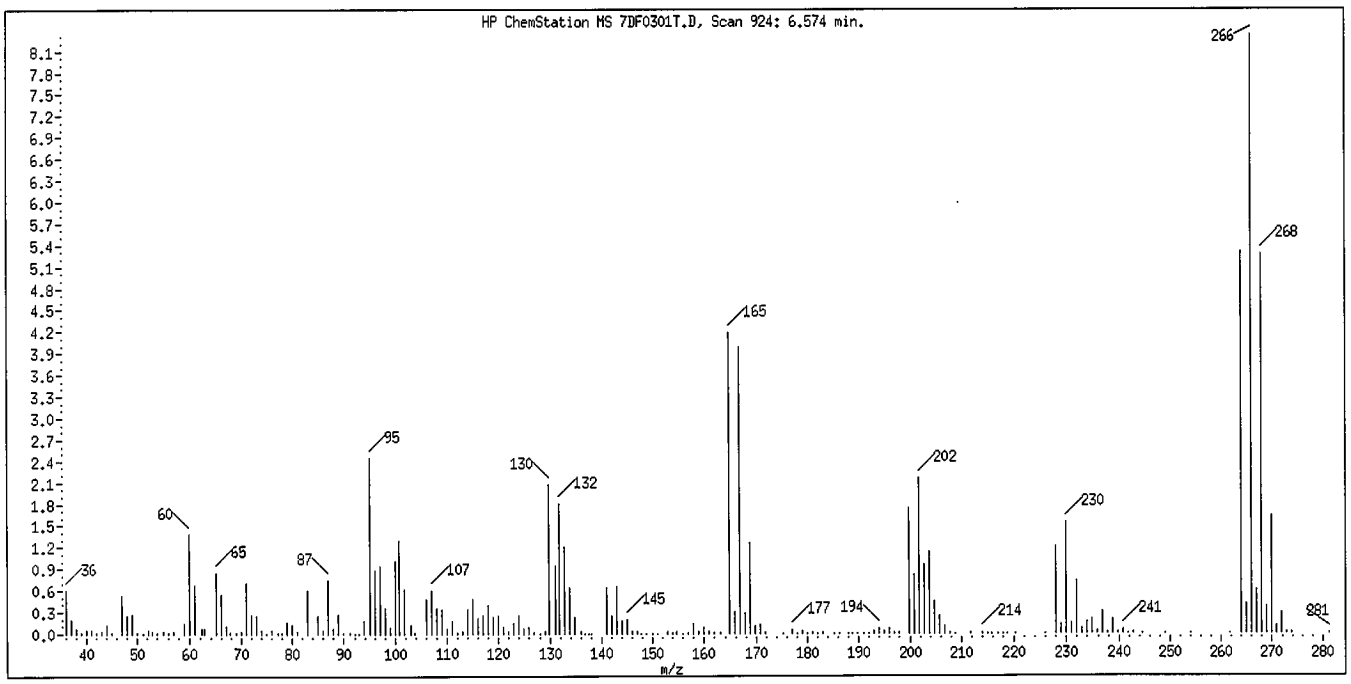


Degradation = 0% Good
Acceptance Criteria 0 - 20 %
DDT Area = 2024788
DDE Area = 0
DDD Area = 0

Data File: 7DF0301T.D
Inj Date: 01-MAR-2010 15:04
Instrument ID: a4hp7.i
Compound Name: Pentachlorophenol
Operator Name: 001710
Report Date: 03/02/2010

TAILING FACTOR





Tailing Factor = 1.87 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.564204 T2 = 6.573533 T3 = 6.591011

Date : 02-MAR-2010 09:17

Client ID:

Instrument: a4hp7.i

Sample Info: dftpp,00302a.b,dftpp390

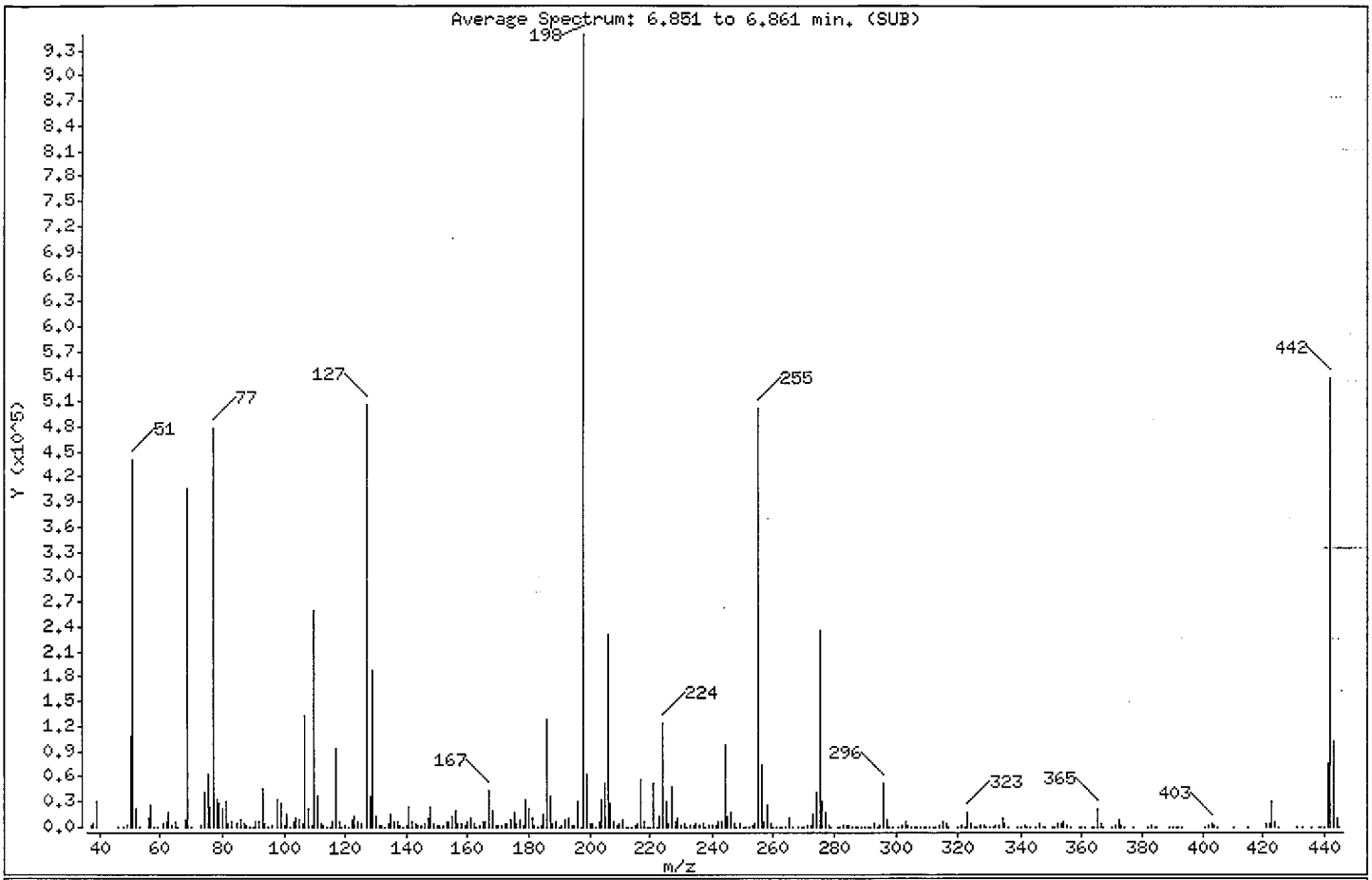
Operator: 001710

Column phase:

Column diameter: 2.00

1 dftpp

OKmc 3/3/10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	46.39
68	Less than 2.00% of mass 69	0.81 (1.90)
69	Mass 69 relative abundance	42.72
70	Less than 2.00% of mass 69	0.08 (0.19)
127	25.00 - 75.00% of mass 198	53.42
197	Less than 1.00% of mass 198	0.02
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 30.00% of mass 198	24.73
365	Greater than 0.75% of mass 198	2.31
441	Present, but less than mass 443	8.11
442	40.00 - 110.00% of mass 198	56.88
443	15.00 - 24.00% of mass 442	10.81 (19.00)

Date : 02-MAR-2010 09:17

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00302a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0302.D
Spectrum: Average Spectrum: 6.851 to 6.861 min. (SUB)
Location of Maximum: 198.00
Number of points: 341

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1732	139.00	801	225.00	31608	314.00	2555
38.00	3902	140.00	2383	226.00	3290	315.00	6192
39.00	31056	141.00	22944	227.00	48480	316.00	3366
46.00	65	142.00	7240	228.00	7167	317.00	684
48.00	279	143.00	4903	229.00	11075	320.00	257
49.00	2243	144.00	1521	230.00	1491	321.00	1818
50.00	109488	145.00	1216	231.00	4142	322.00	722
51.00	440064	146.00	4612	232.00	754	323.00	17848
52.00	22280	147.00	11671	233.00	1161	324.00	3404
53.00	401	148.00	24032	234.00	2855	325.00	222
56.00	10796	149.00	5266	235.00	3537	326.00	414
57.00	26272	150.00	1267	236.00	2504	327.00	3081
58.00	755	151.00	2922	237.00	3998	328.00	1573
59.00	549	152.00	1692	238.00	762	329.00	320
61.00	4952	153.00	7064	239.00	1936	330.00	64
62.00	5520	154.00	5698	240.00	1462	331.00	125
63.00	16856	155.00	12126	241.00	3162	332.00	1411
64.00	2582	156.00	18672	242.00	6405	333.00	1801
65.00	7605	157.00	4005	243.00	6742	334.00	11309
66.00	29	158.00	4013	244.00	98536	335.00	3451
68.00	7712	159.00	3210	245.00	12830	336.00	290
69.00	405312	160.00	7264	246.00	17816	339.00	277
70.00	756	161.00	10399	247.00	4198	340.00	214
73.00	1835	162.00	3313	248.00	872	341.00	1608
74.00	40688	163.00	850	249.00	3397	342.00	646
75.00	63376	164.00	1153	250.00	705	343.00	135
76.00	24008	165.00	7425	251.00	1075	345.00	82
77.00	478400	166.00	7138	252.00	834	346.00	3428
78.00	31744	167.00	44264	253.00	2077	347.00	829
79.00	27976	168.00	20032	254.00	4160	348.00	155
80.00	22104	169.00	2836	255.00	500864	350.00	104
81.00	30528	170.00	1526	256.00	74320	351.00	294
82.00	5386	171.00	1650	257.00	5797	352.00	5027
83.00	5745	172.00	3831	258.00	26576	353.00	3474
85.00	4826	173.00	5064	259.00	4443	354.00	5978

Date : 02-MAR-2010 09:17

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00302a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0302.D
Spectrum: Average Spectrum: 6.851 to 6.861 min. (SUB)
Location of Maximum: 198.00
Number of points: 341

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	8048	174.00	9189	260.00	558	355.00	1137
87.00	3516	175.00	17448	261.00	915	356.00	182
88.00	1665	176.00	5299	262.00	178	359.00	347
89.00	600	177.00	8319	263.00	250	360.00	73
90.00	104	178.00	2729	264.00	351	361.00	83
91.00	5958	179.00	31712	265.00	11205	363.00	143
92.00	7592	180.00	22120	266.00	485	364.00	400
93.00	45496	181.00	10796	268.00	12	365.00	21872
94.00	3415	182.00	1599	269.00	73	366.00	3369
95.00	102	183.00	1069	270.00	533	367.00	92
96.00	1788	184.00	2663	271.00	1256	370.00	431
98.00	33368	185.00	15104	272.00	1483	371.00	1139
99.00	28936	186.00	128088	273.00	14181	372.00	8744
100.00	2625	187.00	36136	274.00	40728	373.00	2440
101.00	16157	188.00	3665	275.00	234624	374.00	255
102.00	864	189.00	7520	276.00	30928	377.00	105
103.00	6542	190.00	1075	277.00	18504	382.00	59
104.00	10355	191.00	3225	278.00	3056	383.00	2166
105.00	9245	192.00	9771	279.00	517	384.00	651
106.00	3363	193.00	10259	281.00	307	385.00	226
107.00	133056	194.00	2504	282.00	393	389.00	111
108.00	20736	195.00	1384	283.00	1713	390.00	843
109.00	1909	196.00	29960	284.00	1459	391.00	970
110.00	258944	197.00	153	285.00	2915	392.00	647
111.00	38000	198.00	948800	286.00	579	393.00	73
112.00	4055	199.00	62440	287.00	71	401.00	473
113.00	1394	200.00	4575	288.00	139	402.00	3127
114.00	349	201.00	4799	289.00	725	403.00	4788
115.00	19	202.00	25	290.00	669	404.00	1606
116.00	7609	203.00	6114	291.00	382	405.00	221
117.00	94560	204.00	31952	292.00	711	410.00	104
118.00	6909	205.00	51992	293.00	4135	415.00	247
119.00	467	206.00	232000	294.00	770	421.00	3950
120.00	1988	207.00	28272	295.00	1382	422.00	3684
121.00	548	208.00	7228	296.00	53424	423.00	29608

Date : 02-MAR-2010 09:17

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00302a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0302.D
Spectrum: Average Spectrum: 6.851 to 6.861 min. (SUB)
Location of Maximum: 198.00
Number of points: 341

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	8527	209.00	1882	297.00	7761	424.00	5923
123.00	12467	210.00	3304	298.00	588	425.00	620
124.00	5752	211.00	8787	299.00	62	431.00	75
125.00	5283	212.00	584	301.00	742	433.00	63
127.00	506816	213.00	465	302.00	1190	436.00	123
128.00	37696	214.00	204	303.00	5930	438.00	330
129.00	186688	215.00	2531	304.00	1899	439.00	306
130.00	14080	216.00	4514	305.00	291	440.00	275
131.00	3021	217.00	56608	306.00	77	441.00	76952
132.00	2222	218.00	7111	307.00	158	442.00	539648
133.00	621	219.00	614	308.00	908	443.00	102528
134.00	5157	220.00	111	309.00	553	444.00	9916
135.00	14578	221.00	51816	310.00	686	445.00	650
136.00	5896	222.00	858	311.00	175		
137.00	7540	223.00	13206	312.00	230		
138.00	1752	224.00	125176	313.00	713		

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\7DF0302T.D

Date : 02-MAR-2010 09:17

Client ID:

Instrument: a4hp7.i

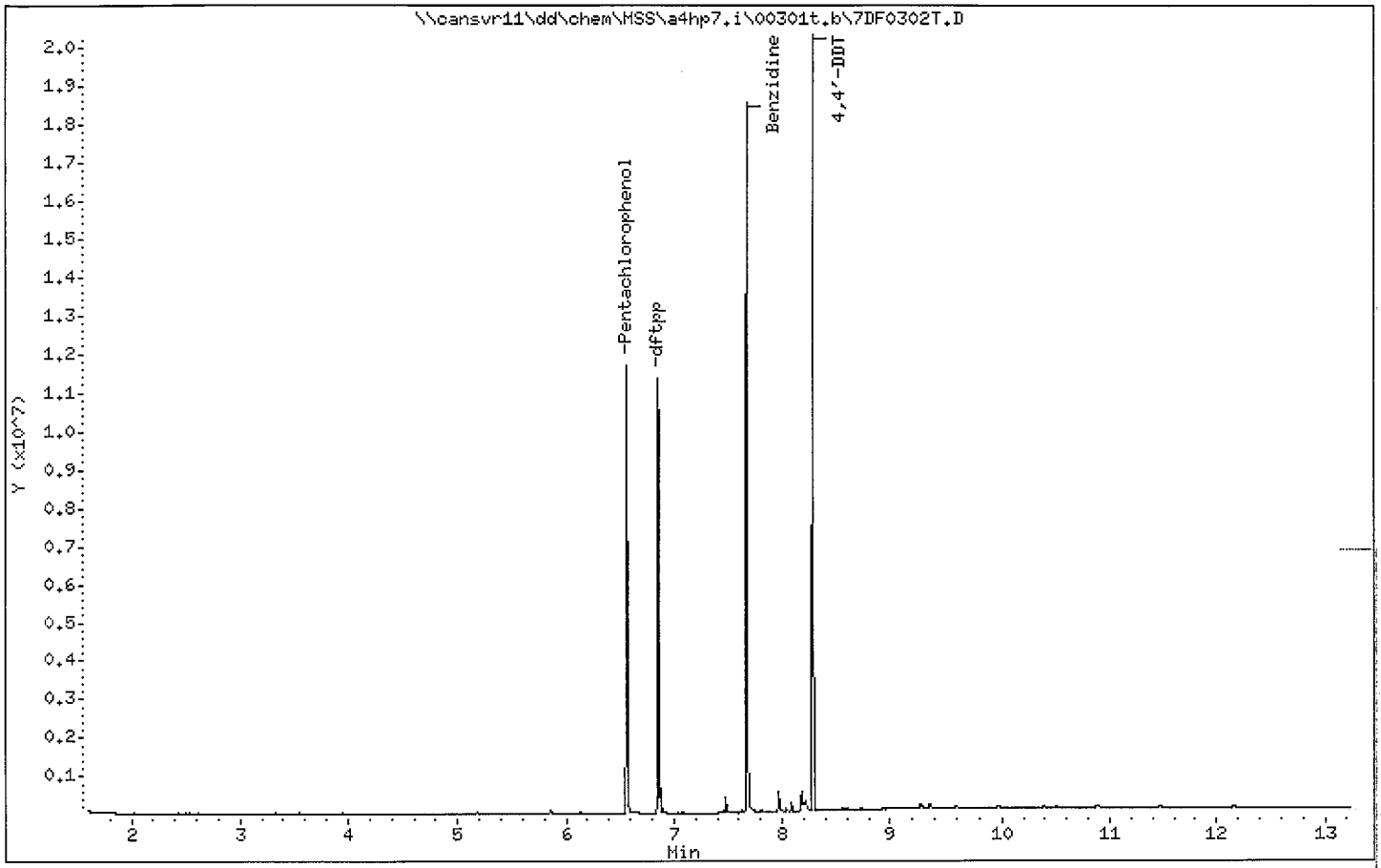
Sample Info: dftpp,00302a.b,dftpp390

Volume Injected (uL): 1.0

Operator: 001710

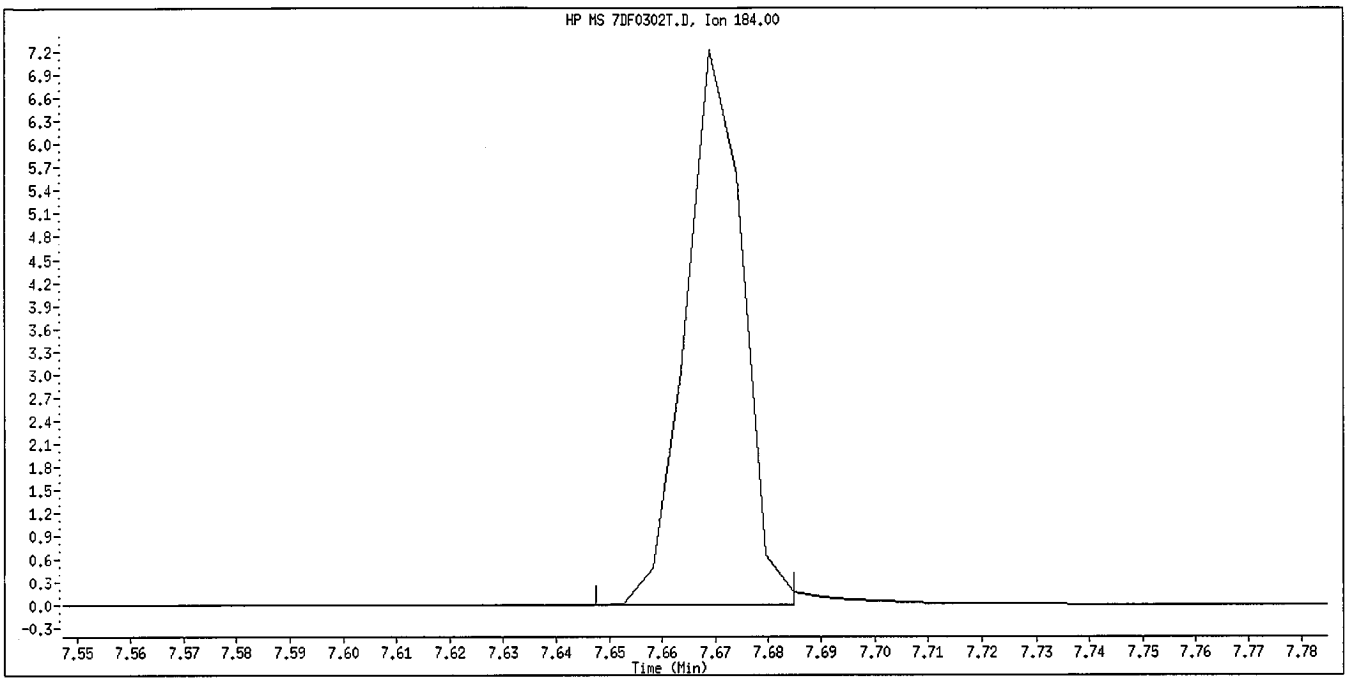
Column phase:

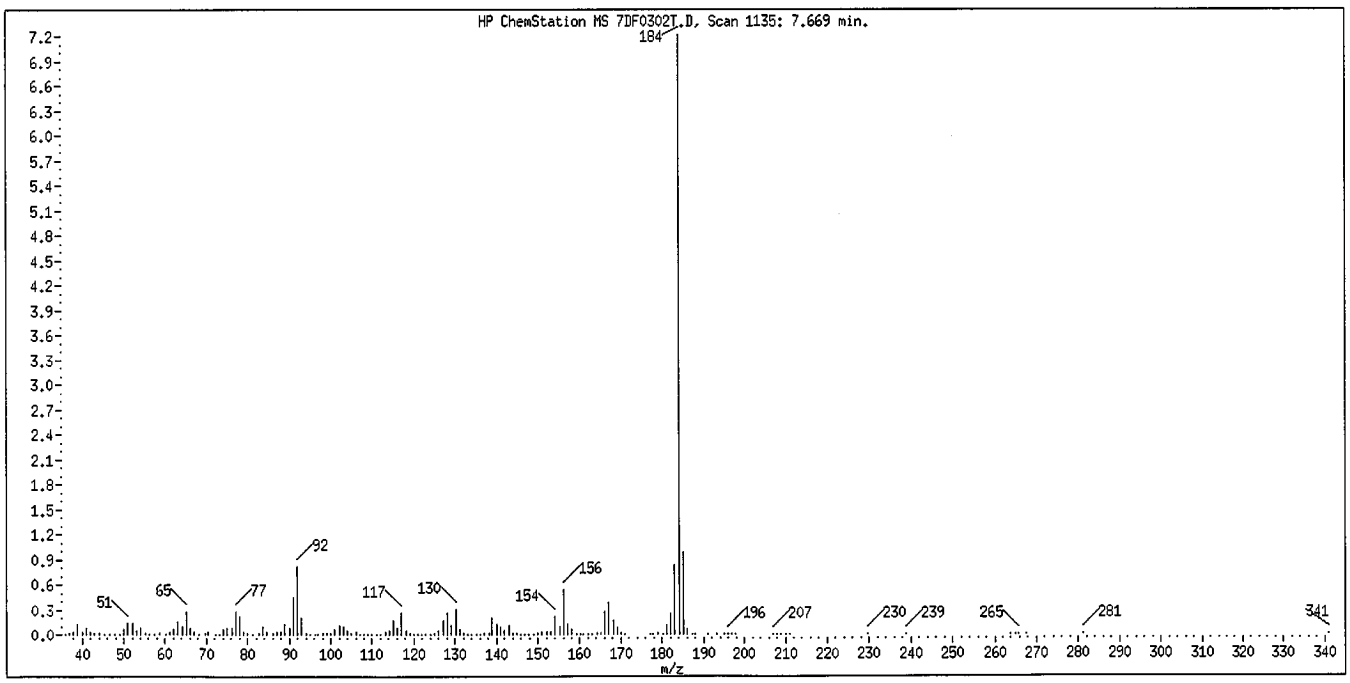
Column diameter: 2.00



Data File: 7DF0302T.D
Inj Date: 02-MAR-2010 09:17
Instrument ID: a4hp7.i
Compound Name: Benzidine
Operator Name: 001710
Report Date: 03/02/2010

TAILING FACTOR

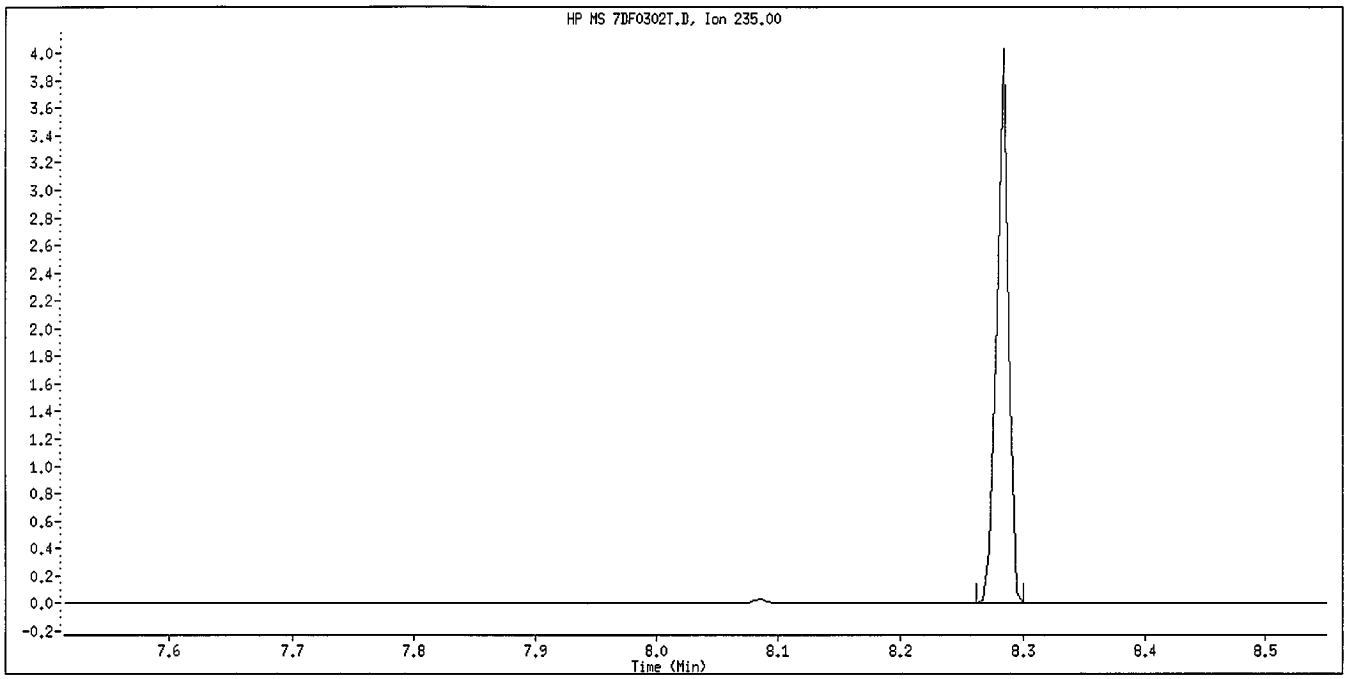




Tailing Factor = 1.04 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 7.658639 T2 = 7.66885 T3 = 7.679469

Data File: 7DF0302T.D
Inj Date: 02-MAR-2010 09:17
Instrument ID: a4hp7.i
Compound Name: 4,4'-DDT
Operator Name: 001710
Report Date: 03/02/2010

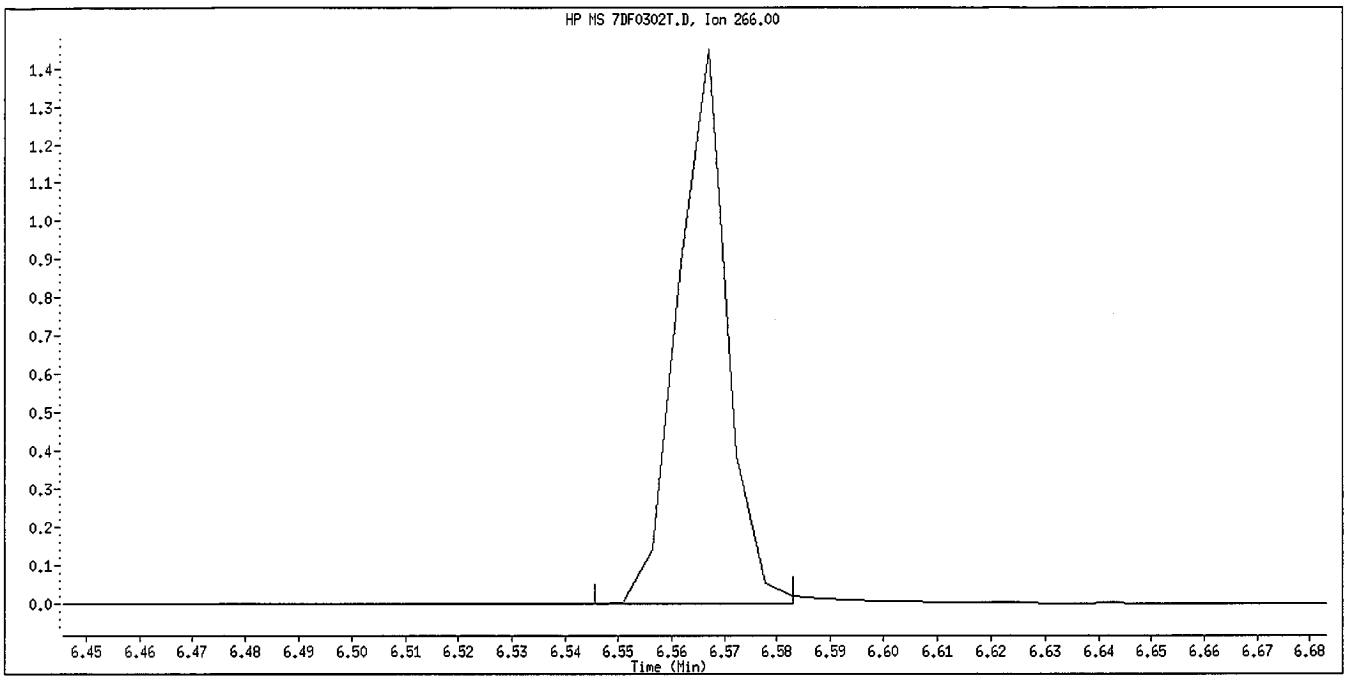
DEGRADATION REPORT

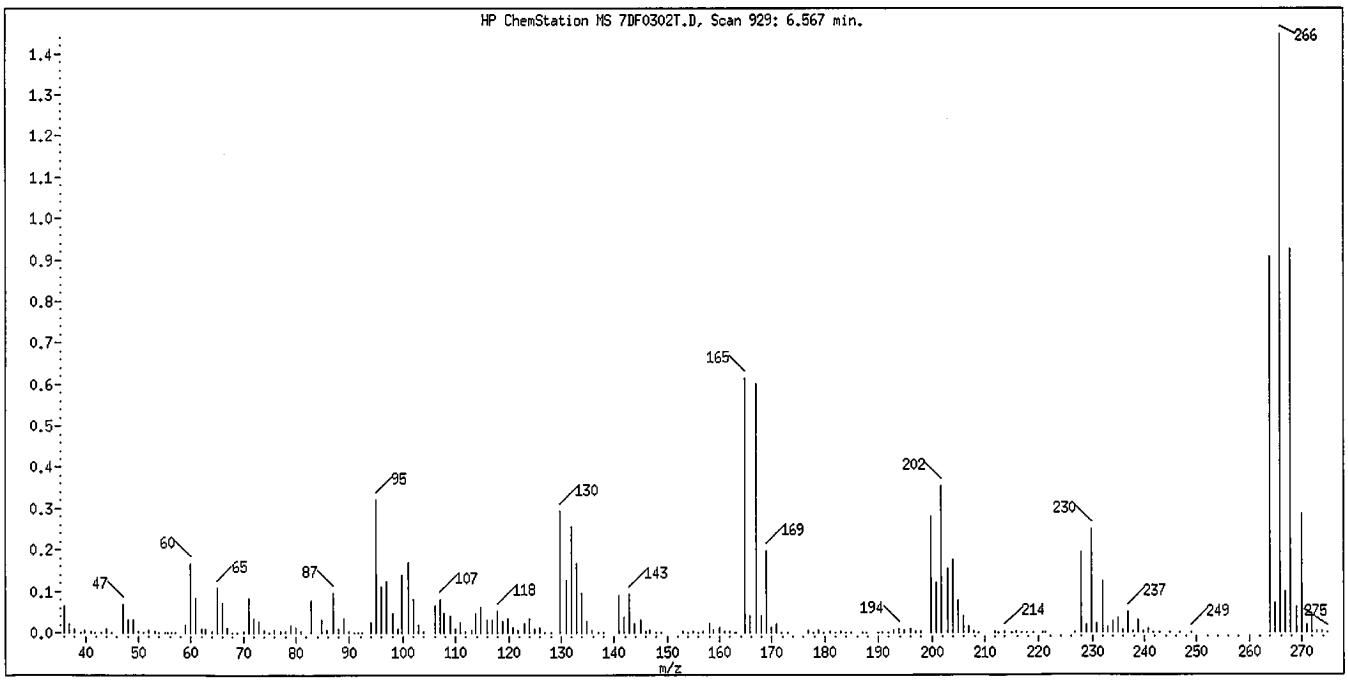


Degradation = 0% Good
Acceptance Criteria 0 - 20 %
DDT Area = 2600476
DDE Area = 0
DDD Area = 0

Data File: 7DF0302T.D
Inj Date: 02-MAR-2010 09:17
Instrument ID: a4hp7.i
Compound Name: Pentachlorophenol
Operator Name: 001710
Report Date: 03/02/2010

TAILING FACTOR





Tailing Factor = 0.866 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.556368 T2 = 6.567033 T3 = 6.576268

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B230000-027
Prep Date.....: 02/23/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0054027
Dilution Factor: 1 **Final Wgt/Vol..:** 2 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	66	(45 - 110)	SW846 8270C
4-Chloro-3-methylphenol	71	(45 - 115)	SW846 8270C
2-Chlorophenol	66	(45 - 105)	SW846 8270C
1,4-Dichlorobenzene	64	(35 - 105)	SW846 8270C
2,4-Dinitrotoluene	72	(50 - 115)	SW846 8270C
4-Nitrophenol	75	(15 - 140)	SW846 8270C
N-Nitrosodi-n-propyl-amine	66	(40 - 115)	SW846 8270C
Pentachlorophenol	56	(25 - 120)	SW846 8270C
Phenol	69	(40 - 100)	SW846 8270C
Pyrene	75	(45 - 125)	SW846 8270C
1,2,4-Trichloro-benzene	61	(45 - 110)	SW846 8270C
bis(2-Ethylhexyl) phthalate	74	(45 - 125)	SW846 8270C
Acenaphthylene	69	(45 - 105)	SW846 8270C
Anthracene	74	(55 - 105)	SW846 8270C
Benzo(a)anthracene	72	(50 - 110)	SW846 8270C
Benzo(b)fluoranthene	77	(45 - 115)	SW846 8270C
Benzo(k)fluoranthene	73	(45 - 125)	SW846 8270C
Benzo(ghi)perylene	76	(40 - 125)	SW846 8270C
Benzo(a)pyrene	64	(50 - 110)	SW846 8270C
bis(2-Chloroethoxy) methane	66	(45 - 110)	SW846 8270C
bis(2-Chloroethyl)-ether	63	(40 - 105)	SW846 8270C
4-Bromophenyl phenyl ether	75	(45 - 115)	SW846 8270C
Butyl benzyl phthalate	75	(50 - 125)	SW846 8270C
Carbazole	75	(45 - 115)	SW846 8270C
4-Chloroaniline	55	(10 - 95)	SW846 8270C
2-Chloronaphthalene	67	(45 - 105)	SW846 8270C
4-Chlorophenyl phenyl ether	69	(45 - 110)	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B230000-027

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chrysene	**72**	**(55 - 110)**	**SW846 8270C**
Dibenzo(a,h)anthracene	**75**	**(40 - 125)**	**SW846 8270C**
Dibenzofuran	**68**	**(50 - 105)**	**SW846 8270C**
Di-n-butyl phthalate	**83**	**(55 - 110)**	**SW846 8270C**
1,2-Dichlorobenzene	**63**	**(45 - 95)**	**SW846 8270C**
1,3-Dichlorobenzene	**60**	**(40 - 100)**	**SW846 8270C**
3,3'-Dichlorobenzidine	**45**	**(10 - 130)**	**SW846 8270C**
2,4-Dichlorophenol	**72**	**(45 - 110)**	**SW846 8270C**
Diethyl phthalate	**71**	**(50 - 115)**	**SW846 8270C**
2,4-Dimethylphenol	**63**	**(30 - 105)**	**SW846 8270C**
Dimethyl phthalate	**70**	**(50 - 110)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	**64**	**(30 - 135)**	**SW846 8270C**
2,4-Dinitrophenol	**55**	**(15 - 130)**	**SW846 8270C**
2,6-Dinitrotoluene	**72**	**(50 - 110)**	**SW846 8270C**
Di-n-octyl phthalate	**75**	**(40 - 130)**	**SW846 8270C**
Fluoranthene	**79**	**(55 - 115)**	**SW846 8270C**
Fluorene	**68**	**(50 - 110)**	**SW846 8270C**
Hexachlorobenzene	**75**	**(45 - 120)**	**SW846 8270C**
Hexachlorobutadiene	**63**	**(40 - 115)**	**SW846 8270C**
Hexachlorocyclopenta-diene	71	(26 - 105)	SW846 8270C
Hexachloroethane	**61**	**(35 - 110)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**75**	**(40 - 120)**	**SW846 8270C**
Isophorone	**66**	**(45 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**80**	**(45 - 105)**	**SW846 8270C**
2-Methylphenol	**68**	**(40 - 105)**	**SW846 8270C**
Naphthalene	**66**	**(40 - 105)**	**SW846 8270C**
2-Nitroaniline	**70**	**(45 - 120)**	**SW846 8270C**
3-Nitroaniline	**58**	**(25 - 110)**	**SW846 8270C**
4-Nitroaniline	**77**	**(35 - 115)**	**SW846 8270C**
Nitrobenzene	**66**	**(40 - 115)**	**SW846 8270C**
2-Nitrophenol	**66**	**(40 - 110)**	**SW846 8270C**
N-Nitrosodiphenylamine	**71**	**(50 - 115)**	**SW846 8270C**
2,2'-oxybis (1-Chloropropane)	65	(20 - 115)	SW846 8270C
Phenanthrene	**74**	**(50 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B230000-027

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,4,5-Trichlorophenol	**65**	**(50 - 110)**	**SW846 8270C**
2,4,6-Trichlorophenol	**66**	**(45 - 110)**	**SW846 8270C**
Benzoic acid	0.0	(0.0- 110)	SW846 8270C
Benzyl alcohol	**65**	**(20 - 125)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	63	(45 - 105)
2-Fluorophenol	68	(35 - 105)
Phenol-d5	66	(40 - 100)
2,4,6-Tribromophenol	59	(35 - 125)
Nitrobenzene-d5	63	(35 - 100)
Terphenyl-d14	83	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B230000-027
Prep Date.....: 02/23/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0054027
Dilution Factor: 1 **Final Wgt/Vol..:** 2 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	670	440	ug/kg	66	SW846 8270C
4-Chloro-3-methylphenol	670	470	ug/kg	71	SW846 8270C
2-Chlorophenol	670	440	ug/kg	66	SW846 8270C
1,4-Dichlorobenzene	670	430	ug/kg	64	SW846 8270C
2,4-Dinitrotoluene	670	480	ug/kg	72	SW846 8270C
4-Nitrophenol	670	500	ug/kg	75	SW846 8270C
N-Nitrosodi-n-propyl-amine	670	440	ug/kg	66	SW846 8270C
Pentachlorophenol	670	370	ug/kg	56	SW846 8270C
Phenol	670	460	ug/kg	69	SW846 8270C
Pyrene	670	500	ug/kg	75	SW846 8270C
1,2,4-Trichloro-benzene	670	410	ug/kg	61	SW846 8270C
bis(2-Ethylhexyl) phthalate	670	490	ug/kg	74	SW846 8270C
Acenaphthylene	670	460	ug/kg	69	SW846 8270C
Anthracene	670	500	ug/kg	74	SW846 8270C
Benzo(a)anthracene	670	480	ug/kg	72	SW846 8270C
Benzo(b)fluoranthene	670	510	ug/kg	77	SW846 8270C
Benzo(k)fluoranthene	670	490	ug/kg	73	SW846 8270C
Benzo(ghi)perylene	670	510	ug/kg	76	SW846 8270C
Benzo(a)pyrene	670	430	ug/kg	64	SW846 8270C
bis(2-Chloroethoxy) methane	670	440	ug/kg	66	SW846 8270C
bis(2-Chloroethyl)-ether	670	420	ug/kg	63	SW846 8270C
4-Bromophenyl phenyl ether	670	500	ug/kg	75	SW846 8270C
Butyl benzyl phthalate	670	500	ug/kg	75	SW846 8270C
Carbazole	670	500	ug/kg	75	SW846 8270C
4-Chloroaniline	670	370	ug/kg	55	SW846 8270C
2-Chloronaphthalene	670	450	ug/kg	67	SW846 8270C
4-Chlorophenyl phenyl ether	670	460	ug/kg	69	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B230000-027

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Chrysene	**670**	**480**	**ug/kg**	**72**	**SW846 8270C**
Dibenzo(a,h)anthracene	**670**	**500**	**ug/kg**	**75**	**SW846 8270C**
Dibenzofuran	**670**	**460**	**ug/kg**	**68**	**SW846 8270C**
Di-n-butyl phthalate	**670**	**550**	**ug/kg**	**83**	**SW846 8270C**
1,2-Dichlorobenzene	**670**	**420**	**ug/kg**	**63**	**SW846 8270C**
1,3-Dichlorobenzene	**670**	**400**	**ug/kg**	**60**	**SW846 8270C**
3,3'-Dichlorobenzidine	**670**	**300**	**ug/kg**	**45**	**SW846 8270C**
2,4-Dichlorophenol	**670**	**480**	**ug/kg**	**72**	**SW846 8270C**
Diethyl phthalate	**670**	**470**	**ug/kg**	**71**	**SW846 8270C**
2,4-Dimethylphenol	**670**	**420**	**ug/kg**	**63**	**SW846 8270C**
Dimethyl phthalate	**670**	**470**	**ug/kg**	**70**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	**670**	**420**	**ug/kg**	**64**	**SW846 8270C**
2,4-Dinitrophenol	**670**	**370**	**ug/kg**	**55**	**SW846 8270C**
2,6-Dinitrotoluene	**670**	**480**	**ug/kg**	**72**	**SW846 8270C**
Di-n-octyl phthalate	**670**	**500**	**ug/kg**	**75**	**SW846 8270C**
Fluoranthene	**670**	**530**	**ug/kg**	**79**	**SW846 8270C**
Fluorene	**670**	**450**	**ug/kg**	**68**	**SW846 8270C**
Hexachlorobenzene	**670**	**500**	**ug/kg**	**75**	**SW846 8270C**
Hexachlorobutadiene	**670**	**420**	**ug/kg**	**63**	**SW846 8270C**
Hexachlorocyclopenta-diene	670	480	ug/kg	71	SW846 8270C
Hexachloroethane	**670**	**400**	**ug/kg**	**61**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**670**	**500**	**ug/kg**	**75**	**SW846 8270C**
Isophorone	**670**	**440**	**ug/kg**	**66**	**SW846 8270C**
2-Methylnaphthalene	**670**	**530**	**ug/kg**	**80**	**SW846 8270C**
2-Methylphenol	**670**	**450**	**ug/kg**	**68**	**SW846 8270C**
Naphthalene	**670**	**440**	**ug/kg**	**66**	**SW846 8270C**
2-Nitroaniline	**670**	**470**	**ug/kg**	**70**	**SW846 8270C**
3-Nitroaniline	**670**	**390**	**ug/kg**	**58**	**SW846 8270C**
4-Nitroaniline	**670**	**510**	**ug/kg**	**77**	**SW846 8270C**
Nitrobenzene	**670**	**440**	**ug/kg**	**66**	**SW846 8270C**
2-Nitrophenol	**670**	**440**	**ug/kg**	**66**	**SW846 8270C**
N-Nitrosodiphenylamine	**670**	**480**	**ug/kg**	**71**	**SW846 8270C**
2,2'-oxybis (1-Chloropropane)	670	440	ug/kg	65	SW846 8270C
Phenanthrene	**670**	**490**	**ug/kg**	**74**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B230000-027

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,4,5-Trichloro-phenol	**670**	**430**	**ug/kg**	**65**	**SW846 8270C**
2,4,6-Trichloro-phenol	**670**	**440**	**ug/kg**	**66**	**SW846 8270C**
Benzoic acid	670	0.0	ug/kg	0.0	SW846 8270C
Benzyl alcohol	**670**	**440**	**ug/kg**	**65**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	63	(45 - 105)
2-Fluorophenol	68	(35 - 105)
Phenol-d5	66	(40 - 100)
2,4,6-Tribromophenol	59	(35 - 125)
Nitrobenzene-d5	63	(35 - 100)
Terphenyl-d14	83	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LV0FP1AC.D
Lab Smp Id: lv0fp1ac Client Smp ID: INTRA-LAB CHECK
Inj Date : 02-MAR-2010 10:56
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv0fp1ac,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 03-Mar-2010 13:33 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 6 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
* 1	1,4-Dichlorobenzene-d4	152	3.464	3.470	(1.000)	352855	2.00000	
* 2	Naphthalene-d8	136	4.357	4.358	(1.000)	1493853	2.00000	
* 3	Acenaphthene-d10	164	5.625	5.625	(1.000)	785574	2.00000	
* 4	Phenanthrene-d10	188	6.711	6.711	(1.000)	1213292	2.00000	
* 5	Chrysene-d12	240	8.663	8.663	(1.000)	1451578	2.00000	
* 6	Perylene-d12	264	10.027	10.027	(1.000)	1315044	2.00000	
9	Pyridine	79	1.886	1.876	(0.545)	537538	2.37120	316.16
10	N-Nitrosodimethylamine	74	1.854	1.844	(0.535)	439902	3.36314	448.42
11	Ethyl methacrylate	69	Compound Not Detected.					
12	3-Chloropropionitrile	54	Compound Not Detected.					
13	Malononitrile	66	Compound Not Detected.					
209	Benzaldehyde	77	3.170	3.176	(0.915)	499392	3.32030	442.71
21	Aniline	93	3.240	3.245	(0.935)	783443	2.17142	289.52
22	Phenol	94	3.191	3.186	(0.921)	978329	3.44310	459.08
23	bis(2-Chloroethyl)ether	93	3.261	3.261	(0.941)	792303	3.15915	421.22
24	2-Chlorophenol	128	3.325	3.331	(0.960)	750299	3.31479	441.97
26	1,3-Dichlorobenzene	146	3.432	3.432	(0.991)	703964	2.98846	398.46
27	1,4-Dichlorobenzene	146	3.475	3.480	(1.003)	739067	3.19264	425.68

28	1,2-Dichlorobenzene	146	3.587	3.587 (1.036)	710881	3.15743	420.99
29	Benzyl Alcohol	108	3.539	3.539 (1.022)	486589	3.27227	436.30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
30	2-Methylphenol	108	3.603	3.603	(1.040)	667343	3.38212	450.95
31	bis(2-Chloroisopropyl)ether	45	3.625	3.625	(1.046)	1295688	3.26623	435.50
37	Acetophenone	105	3.726	3.732	(1.076)	983962	3.13844	418.46
32	N-Nitroso-di-n-propylamine	70	3.716	3.721	(1.073)	572470	3.32281	443.04
192	4-Methylphenol	108	3.705	3.705	(1.069)	1409017	6.57377	876.50
34	Hexachloroethane	117	3.823	3.828	(1.103)	279557	3.03590	404.79
35	Nitrobenzene	77	3.855	3.855	(0.885)	811324	3.29552	439.40
41	Isophorone	82	4.010	4.015	(0.920)	1505803	3.28168	437.56
42	2-Nitrophenol	139	4.079	4.079	(0.936)	401162	3.27698	436.93(Q)
43	2,4-Dimethylphenol	107	4.079	4.079	(0.936)	657965	3.14318	419.09
44	bis(2-Chloroethoxy)methane	93	4.144	4.144	(0.951)	902484	3.31476	441.97
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	4.245	4.245	(0.974)	549999	3.59435	479.25
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.309	4.315	(0.989)	573911	3.06530	408.71
51	Naphthalene	128	4.374	4.374	(1.004)	2199118	3.31045	441.39
52	4-Chloroaniline	127	4.390	4.395	(1.007)	672443	2.73778	365.04
56	Hexachlorobutadiene	225	4.454	4.454	(1.022)	305413	3.13914	418.55
210	Caprolactam	113	4.630	4.641	(1.063)	274539	3.61968	482.62
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	4.721	4.721	(1.083)	680853	3.54392	472.52
62	2-Methylnaphthalene	142	4.866	4.866	(1.117)	1428949	3.97828	530.44
63	1-Methylnaphthalene	142	4.940	4.941	(1.134)	1411108	3.36025	448.03
64	Hexachlorocyclopentadiene	237	4.983	4.983	(0.886)	397270	3.57091	476.12
66	2,4,6-Trichlorophenol	196	5.058	5.058	(0.899)	374003	3.31765	442.35
67	2,4,5-Trichlorophenol	196	5.090	5.090	(0.905)	410027	3.24532	432.71
211	1,1'-Biphenyl	154	5.192	5.197	(0.923)	1754751	3.22027	429.37
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	5.219	5.224	(0.928)	1319941	3.35286	447.05
73	2-Nitroaniline	65	5.277	5.278	(0.938)	482099	3.51121	468.16
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	5.390	5.395	(0.958)	1600358	3.49674	466.23
78	2,6-Dinitrotoluene	165	5.443	5.443	(0.968)	382653	3.60990	481.32
79	Acenaphthylene	152	5.523	5.529	(0.982)	2247551	3.45238	460.32
80	1,2-Dinitrobenzene	168	5.486	5.492	(0.975)	189300	3.61752	482.34
81	3-Nitroaniline	138	5.572	5.572	(0.990)	357394	2.90271	387.03
82	Acenaphthene	153	5.652	5.652	(1.005)	1416384	3.28169	437.56
83	2,4-Dinitrophenol	184	5.641	5.647	(1.003)	184480	2.75220	366.96(Q)
85	4-Nitrophenol	109	5.668	5.673	(1.008)	207167	3.74445	499.26
86	Dibenzofuran	168	5.770	5.775	(1.026)	1933627	3.41900	455.87(R)
87	2,4-Dinitrotoluene	165	5.737	5.738	(1.020)	528619	3.62369	483.16
91	2,3,5,6-Tetrachlorophenol	232	5.823	5.823	(1.035)	268924	2.50345	333.79
93	Diethylphthalate	149	5.898	5.898	(1.048)	1698184	3.54748	473.00
94	Fluorene	166	6.021	6.026	(1.070)	1646357	3.38610	451.48
95	4-Chlorophenyl-phenylether	204	6.005	6.005	(1.068)	744907	3.46465	461.95
96	4-Nitroaniline	138	6.016	6.021	(1.069)	485013	3.82761	510.35
98	4,6-Dinitro-2-methylphenol	198	6.037	6.037	(0.900)	282834	3.18525	424.70
99	N-Nitrosodiphenylamine	169	6.085	6.085	(0.907)	1209798	3.57194	476.26
100	1,2-Diphenylhydrazine	77	6.117	6.123	(0.912)	1835720	3.61950	482.60
106	4-Bromophenyl-phenylether	248	6.363	6.363	(0.948)	449723	3.75947	501.26
107	Hexachlorobenzene	284	6.433	6.433	(0.959)	435229	3.75318	500.42

212 Atrazine	200	6.449	6.454 (0.961)	467876	6.12297	816.40(R)
111 Pentachlorophenol	266	6.566	6.567 (0.978)	216977	2.79566	372.76

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
115 Phenanthrene	178	6.727	6.727	(1.002)	2430271	3.70765	494.35
116 Anthracene	178	6.764	6.765	(1.008)	2458281	3.72369	496.49
119 Carbazole	167	6.866	6.866	(1.023)	2368493	3.75138	500.18
120 Di-n-Butylphthalate	149	7.075	7.075	(1.054)	3013264	4.15359	553.81
123 Fluoranthene	202	7.593	7.599	(1.131)	2638725	3.97438	529.92
124 Benzidine	184	Compound Not Detected.					
125 Pyrene	202	7.770	7.770	(0.897)	2691000	3.76546	502.06
131 Butylbenzylphthalate	149	8.176	8.182	(0.944)	1315888	3.74951	499.93
133 3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135 3,3'-Dichlorobenzidine	252	8.604	8.610	(0.993)	587944	2.25531	300.71
136 Benzo(a)Anthracene	228	8.652	8.653	(0.999)	2569380	3.58580	478.11
137 Chrysene	228	8.685	8.685	(1.002)	2397865	3.59954	479.94
138 4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139 bis(2-ethylhexyl)Phthalate	149	8.588	8.588	(0.991)	1852926	3.71047	494.73
140 Di-n-octylphthalate	149	9.102	9.107	(0.908)	2969505	3.76049	501.40
141 Benzo(b)fluoranthene	252	9.604	9.610	(0.958)	2557327	3.85999	514.66
142 Benzo(k)fluoranthene	252	9.631	9.637	(0.961)	2687672	3.67112	489.48
146 Benzo(a)pyrene	252	9.968	9.968	(0.994)	2032160	3.21049	428.06
149 Indeno(1,2,3-cd)pyrene	276	11.498	11.503	(1.147)	2656047	3.76461	501.95
150 Dibenz(a,h)anthracene	278	11.503	11.509	(1.147)	2216373	3.76940	502.59
151 Benzo(g,h,i)perylene	276	11.942	11.953	(1.191)	2204390	3.82368	509.82
198 1,4-Dioxane	88	1.699	1.683	(0.491)	135555	1.58916	211.89
$ 154 Nitrobenzene-d5	82	3.839	3.844	(0.881)	827598	3.13290	417.72
$ 155 2-Fluorobiphenyl	172	5.117	5.117	(0.910)	1412356	3.17028	422.70
$ 156 Terphenyl-d14	244	7.845	7.845	(0.906)	1862052	4.13585	551.45
$ 157 Phenol-d5	99	3.181	3.181	(0.918)	1306686	4.94985	659.98
$ 158 2-Fluorophenol	112	2.614	2.603	(0.755)	1024598	5.07939	677.25
$ 159 2,4,6-Tribromophenol	330	6.197	6.198	(1.102)	243176	4.42397	589.86
$ 186 2-Chlorophenol-d4	132	3.314	3.315	(0.957)	1070569	5.16381	688.51
$ 187 1,2-Dichlorobenzene-d4	152	3.577	3.582	(1.032)	415008	2.92524	390.03
M 195 Cresols, total	100				2076360	9.95589	1327.4
101 Diphenylamine	169	6.085	6.085	(0.907)	1209798	3.57194	476.26

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: LV0FP1AC.D
Lab Smp Id: lv0fp1ac
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	352855	12.22
2 Naphthalene-d8	1302947	651474	2605894	1493853	14.65
3 Acenaphthene-d10	667302	333651	1334604	785574	17.72
4 Phenanthrene-d10	1052286	526143	2104572	1213292	15.30
5 Chrysene-d12	1252372	626186	2504744	1451578	15.91
6 Perylene-d12	1122003	561002	2244006	1315044	17.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.46	-0.16
2 Naphthalene-d8	4.36	3.86	4.86	4.36	-0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	-0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	-0.00
5 Chrysene-d12	8.66	8.16	9.16	8.66	-0.00
6 Perylene-d12	10.03	9.53	10.53	10.03	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LV0FP1AC.D

Page 1

Date : 02-MAR-2010 10:56

Client ID: INTRA-LAB CHECK

Instrument: a4hp7.i

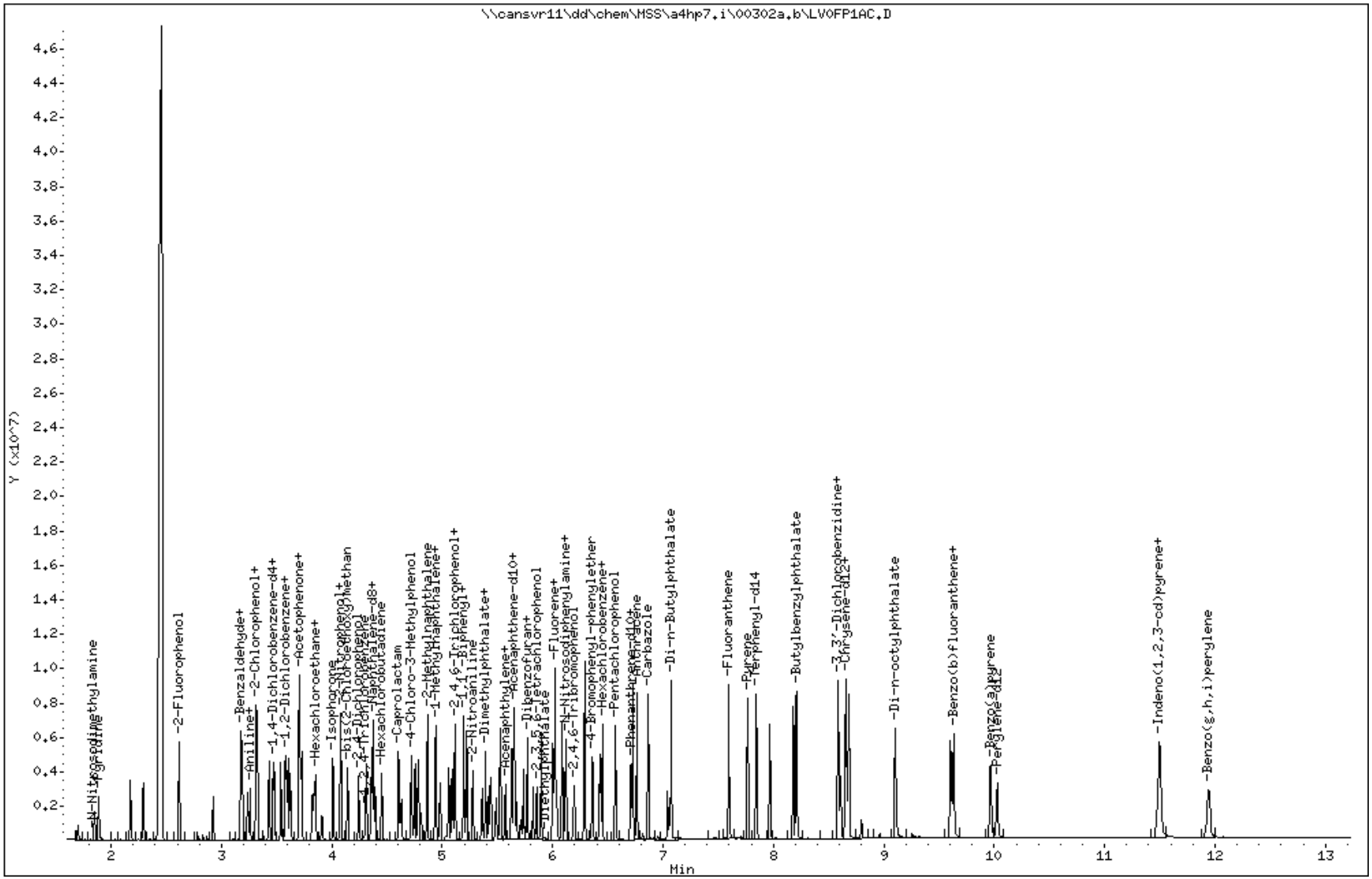
Sample Info: lv0fp1ac,00302a.b,8270C-625,1-827042d.sub

Volume Injected (uL): 0.5

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FP1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0B230000-027

Prep Date.....: 02/23/10 **Final Wgt/Vol..:** 2 mL
Analysis Date..: 03/02/10 **Prep Batch #...:** 0054027
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzoic acid	ND	800	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FP1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	800	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	800	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta-diene	ND	330	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	800	ug/kg	SW846 8270C
3-Nitroaniline	ND	800	ug/kg	SW846 8270C
4-Nitroaniline	ND	800	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	800	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
1,2,4-Trichloro-benzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
Carbazole	ND	50	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	66	(45 - 105)
2-Fluorophenol	72	(35 - 105)
Phenol-d5	71	(40 - 100)
2,4,6-Tribromophenol	52	(35 - 125)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FP1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene-d5	61	(35 - 100)		
Terphenyl-d14	89	(30 - 125)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LV0FP1AA.D
Lab Smp Id: lv0fp1aa Client Smp ID: INTRA-LAB BLANK
Inj Date : 02-MAR-2010 10:37
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv0fp1aa,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 04-Mar-2010 10:09 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 5 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.464	3.470	(1.000)	345994	2.00000		(Q)
* 2 Naphthalene-d8	136	4.358	4.358	(1.000)	1459296	2.00000		
* 3 Acenaphthene-d10	164	5.625	5.625	(1.000)	750948	2.00000		
* 4 Phenanthrene-d10	188	6.706	6.711	(1.000)	1150725	2.00000		
* 5 Chrysene-d12	240	8.658	8.663	(1.000)	1293874	2.00000		
* 6 Perylene-d12	264	10.022	10.027	(1.000)	1153399	2.00000		
9 Pyridine	79	Compound Not Detected.						
10 N-Nitrosodimethylamine	74	Compound Not Detected.						
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	Compound Not Detected.						
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	Compound Not Detected.						
21 Aniline	93	Compound Not Detected.						
22 Phenol	94	Compound Not Detected.						
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	Compound Not Detected.						
26 1,3-Dichlorobenzene	146	Compound Not Detected.						
27 1,4-Dichlorobenzene	146	Compound Not Detected.						

28	1,2-Dichlorobenzene	146	Compound Not Detected.
29	Benzyl Alcohol	108	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
30	2-Methylphenol	108	Compound Not Detected.					
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	Compound Not Detected.					
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	Compound Not Detected.					
63	1-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					

212	Atrazine	200	Compound Not Detected.
111	Pentachlorophenol	266	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
115	Phenanthrene	178	Compound Not Detected.					
116	Anthracene	178	Compound Not Detected.					
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
123	Fluoranthene	202	Compound Not Detected.					
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	Compound Not Detected.					
131	Butylbenzylphthalate	149	Compound Not Detected.					
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	Compound Not Detected.					
137	Chrysene	228	Compound Not Detected.					
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
140	Di-n-octylphthalate	149	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	Compound Not Detected.					
142	Benzo(k)fluoranthene	252	Compound Not Detected.					
146	Benzo(a)pyrene	252	Compound Not Detected.					
149	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150	Dibenz(a,h)anthracene	278	Compound Not Detected.					
151	Benzo(g,h,i)perylene	276	Compound Not Detected.					
198	1,4-Dioxane	88	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.839	3.844	(0.881)	780854	3.02594	403.46
$ 155	2-Fluorobiphenyl	172	5.117	5.117	(0.910)	1395858	3.27772	437.03
$ 156	Terphenyl-d14	244	7.845	7.845	(0.906)	1789899	4.46015	594.69
$ 157	Phenol-d5	99	3.181	3.181	(0.918)	1370539	5.29468	705.96
$ 158	2-Fluorophenol	112	2.619	2.603	(0.756)	1070841	5.41391	721.85
$ 159	2,4,6-Tribromophenol	330	6.198	6.198	(1.102)	203957	3.88157	517.54
$ 186	2-Chlorophenol-d4	132	3.315	3.315	(0.957)	1100831	5.41507	722.01
$ 187	1,2-Dichlorobenzene-d4	152	3.577	3.582	(1.032)	419064	3.01241	401.65
M 195	Cresols, total	100	Compound Not Detected.					
101	Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

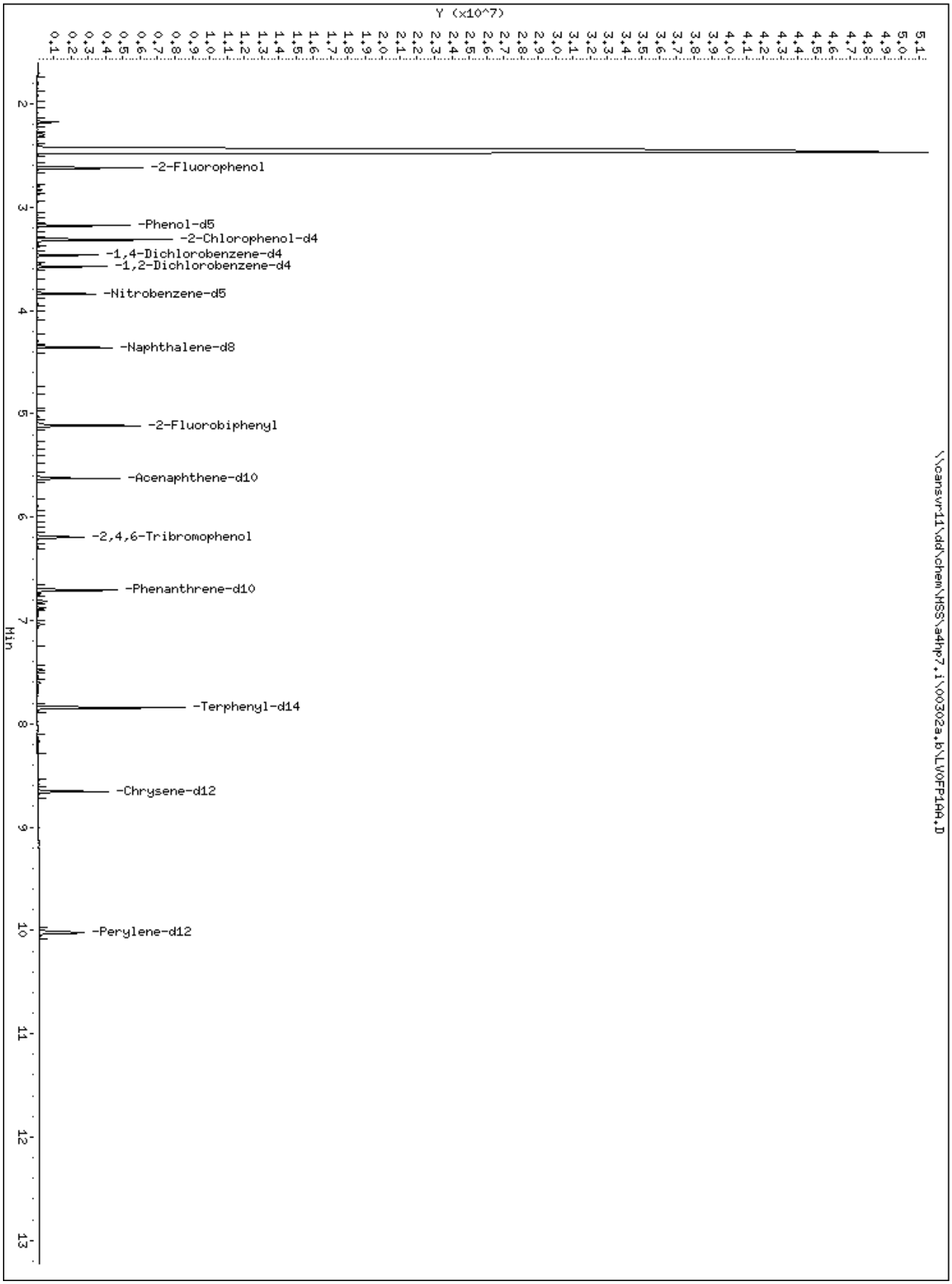
Instrument ID: a4hp7.i
Lab File ID: LV0FP1AA.D
Lab Smp Id: lv0fp1aa
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	345994	10.04
2 Naphthalene-d8	1302947	651474	2605894	1459296	12.00
3 Acenaphthene-d10	667302	333651	1334604	750948	12.53
4 Phenanthrene-d10	1052286	526143	2104572	1150725	9.35
5 Chrysene-d12	1252372	626186	2504744	1293874	3.31
6 Perylene-d12	1122003	561002	2244006	1153399	2.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.46	-0.15
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	-0.08
5 Chrysene-d12	8.66	8.16	9.16	8.66	-0.06
6 Perylene-d12	10.03	9.53	10.53	10.02	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^7)
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
Min
\\cansvr11\dd\chem\HSS\a4hp7.i\00302a.b\LV0FP10A.D

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LVTQQ1A7-MS **Matrix.....:** SO
MS Lot-Sample #: A0B180429-001 LVTQQ1A8-MSD
Date Sampled...: 02/16/10 10:30 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0054027
Dilution Factor: 1 **Initial Wgt/Vol:** 30.08 g **Final Wgt/Vol..:** 2 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**44 a**	**(45 - 110)**			**SW846 8270C**
	56	**(45 - 110)**	**24**	**(0-44)**	**SW846 8270C**
Pyrene	**48**	**(45 - 125)**			**SW846 8270C**
	63	**(45 - 125)**	**24**	**(0-66)**	**SW846 8270C**
Acenaphthylene	**47**	**(45 - 105)**			**SW846 8270C**
	60	**(45 - 105)**	**24**	**(0-41)**	**SW846 8270C**
Anthracene	**49 a**	**(55 - 105)**			**SW846 8270C**
	64 p	**(55 - 105)**	**27**	**(0-22)**	**SW846 8270C**
Benzo(a)anthracene	**48 a**	**(50 - 110)**			**SW846 8270C**
	61	**(50 - 110)**	**23**	**(0-23)**	**SW846 8270C**
Benzo(b)fluoranthene	**52**	**(45 - 115)**			**SW846 8270C**
	69	**(45 - 115)**	**26**	**(0-28)**	**SW846 8270C**
Benzo(k)fluoranthene	**47**	**(45 - 125)**			**SW846 8270C**
	60	**(45 - 125)**	**24**	**(0-31)**	**SW846 8270C**
Benzo(ghi)perylene	**51**	**(40 - 125)**			**SW846 8270C**
	66	**(40 - 125)**	**25**	**(0-50)**	**SW846 8270C**
Benzo(a)pyrene	**41 a**	**(50 - 110)**			**SW846 8270C**
	54	**(50 - 110)**	**26**	**(0-31)**	**SW846 8270C**
Chrysene	**48 a**	**(55 - 110)**			**SW846 8270C**
	63	**(55 - 110)**	**24**	**(0-31)**	**SW846 8270C**
Dibenzo(a,h)anthracene	**54**	**(40 - 125)**			**SW846 8270C**
	69	**(40 - 125)**	**25**	**(0-55)**	**SW846 8270C**
Fluoranthene	**55**	**(55 - 115)**			**SW846 8270C**
	72 p	**(55 - 115)**	**24**	**(0-23)**	**SW846 8270C**
Fluorene	**46 a**	**(50 - 110)**			**SW846 8270C**
	59	**(50 - 110)**	**24**	**(0-29)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**50**	**(40 - 120)**			**SW846 8270C**
	66	**(40 - 120)**	**25**	**(0-37)**	**SW846 8270C**
Naphthalene	**43**	**(40 - 105)**			**SW846 8270C**
	56	**(40 - 105)**	**24**	**(0-25)**	**SW846 8270C**
Phenanthrene	**48 a**	**(50 - 110)**			**SW846 8270C**
	63 p	**(50 - 110)**	**27**	**(0-20)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	43 *	(45 - 105)
	53	(45 - 105)
2-Fluorophenol	46	(35 - 105)
	57	(35 - 105)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LVTQQ1A7-MS **Matrix.....:** SO
MS Lot-Sample #: A0B180429-001 LVTQQ1A8-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Phenol-d5	45	(40 - 100)
	57	(40 - 100)
2,4,6-Tribromophenol	45	(35 - 125)
	57	(35 - 125)
Nitrobenzene-d5	37	(35 - 100)
	47	(35 - 100)
Terphenyl-d14	52	(30 - 125)
	66	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LVTQQ1A7-MS **Matrix.....:** SO
MS Lot-Sample #: A0B180429-001 LVTQQ1A8-MSD
Date Sampled...: 02/16/10 10:30 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/02/10
Prep Batch #...: 0054027
Dilution Factor: 1 **Initial Wgt/Vol:** 30.08 g **Final Wgt/Vol..:** 2 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**680**	**300**	**ug/kg**	**44 a**		**SW846 8270C**
	ND	**680**	**380**	**ug/kg**	**56**	**24**	**SW846 8270C**
Pyrene	**27**	**680**	**350**	**ug/kg**	**48**		**SW846 8270C**
	27	**680**	**450**	**ug/kg**	**63**	**24**	**SW846 8270C**
Acenaphthylene	**ND**	**680**	**320**	**ug/kg**	**47**		**SW846 8270C**
	ND	**680**	**410**	**ug/kg**	**60**	**24**	**SW846 8270C**
Anthracene	**ND**	**680**	**330**	**ug/kg**	**49 a**		**SW846 8270C**
	ND	**680**	**430**	**ug/kg**	**64 p**	**27**	**SW846 8270C**
Benzo(a)anthracene	**26**	**680**	**350**	**ug/kg**	**48 a**		**SW846 8270C**
	26	**680**	**440**	**ug/kg**	**61**	**23**	**SW846 8270C**
Benzo(b)fluoranthene	**51**	**680**	**400**	**ug/kg**	**52**		**SW846 8270C**
	51	**680**	**520**	**ug/kg**	**69**	**26**	**SW846 8270C**
Benzo(k)fluoranthene	**16**	**680**	**330**	**ug/kg**	**47**		**SW846 8270C**
	16	**680**	**420**	**ug/kg**	**60**	**24**	**SW846 8270C**
Benzo(ghi)perylene	**20**	**680**	**360**	**ug/kg**	**51**		**SW846 8270C**
	20	**680**	**460**	**ug/kg**	**66**	**25**	**SW846 8270C**
Benzo(a)pyrene	**27**	**680**	**300**	**ug/kg**	**41 a**		**SW846 8270C**
	27	**680**	**390**	**ug/kg**	**54**	**26**	**SW846 8270C**
Chrysene	**31**	**680**	**360**	**ug/kg**	**48 a**		**SW846 8270C**
	31	**680**	**460**	**ug/kg**	**63**	**24**	**SW846 8270C**
Dibenzo(a,h)anthracene	**ND**	**680**	**360**	**ug/kg**	**54**		**SW846 8270C**
	ND	**680**	**470**	**ug/kg**	**69**	**25**	**SW846 8270C**
Fluoranthene	**33**	**680**	**410**	**ug/kg**	**55**		**SW846 8270C**
	33	**680**	**520**	**ug/kg**	**72 p**	**24**	**SW846 8270C**
Fluorene	**ND**	**680**	**310**	**ug/kg**	**46 a**		**SW846 8270C**
	ND	**680**	**400**	**ug/kg**	**59**	**24**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**19**	**680**	**360**	**ug/kg**	**50**		**SW846 8270C**
	19	**680**	**460**	**ug/kg**	**66**	**25**	**SW846 8270C**
Naphthalene	**26**	**680**	**320**	**ug/kg**	**43**		**SW846 8270C**
	26	**680**	**400**	**ug/kg**	**56**	**24**	**SW846 8270C**
Phenanthrene	**11**	**680**	**340**	**ug/kg**	**48 a**		**SW846 8270C**
	11	**680**	**440**	**ug/kg**	**63 p**	**27**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	43 *	(45 - 105)
	53	(45 - 105)
2-Fluorophenol	46	(35 - 105)
	57	(35 - 105)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LVTQQ1A7-MS **Matrix.....:** SO
MS Lot-Sample #: A0B180429-001 LVTQQ1A8-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Phenol-d5	45	(40 - 100)
	57	(40 - 100)
2,4,6-Tribromophenol	45	(35 - 125)
	57	(35 - 125)
Nitrobenzene-d5	37	(35 - 100)
	47	(35 - 100)
Terphenyl-d14	52	(30 - 125)
	66	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LVTQQ1A7.D
Lab Smp Id: lvtqq1a7 Client Smp ID: B12SS-036M-5038-SO
Inj Date : 02-MAR-2010 15:41
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lvtqq1a7,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 03-Mar-2010 13:33 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 21 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.080	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
* 1	1,4-Dichlorobenzene-d4	152	3.480	3.470	(1.000)	283705	2.00000	
* 2	Naphthalene-d8	136	4.368	4.358	(1.000)	1231532	2.00000	
* 3	Acenaphthene-d10	164	5.631	5.625	(1.000)	697546	2.00000	
* 4	Phenanthrene-d10	188	6.716	6.711	(1.000)	1143037	2.00000	
* 5	Chrysene-d12	240	8.674	8.663	(1.000)	1459548	2.00000	
* 6	Perylene-d12	264	10.049	10.027	(1.000)	1395022	2.00000	
9	Pyridine	79	Compound Not Detected.					
10	N-Nitrosodimethylamine	74	1.838	1.844	(0.528)	202064	1.92135	255.50
11	Ethyl methacrylate	69	Compound Not Detected.					
12	3-Chloropropionitrile	54	Compound Not Detected.					
13	Malononitrile	66	Compound Not Detected.					
209	Benzaldehyde	77	3.197	3.176	(0.919)	284977	2.18679	290.80
21	Aniline	93	Compound Not Detected.					
22	Phenol	94	3.272	3.186	(0.940)	564207	2.46963	328.41(H)
23	bis(2-Chloroethyl)ether	93	3.277	3.261	(0.942)	403503	2.00103	266.09(R)
24	2-Chlorophenol	128	3.379	3.331	(0.971)	394975	2.17030	288.60(M)
26	1,3-Dichlorobenzene	146	3.448	3.432	(0.991)	364484	1.92444	255.91(R)
27	1,4-Dichlorobenzene	146	3.491	3.480	(1.003)	378827	2.03534	270.66

28	1,2-Dichlorobenzene	146	3.603	3.587 (1.035)	368825	2.03745	270.94(R)
29	Benzyl Alcohol	108	3.561	3.539 (1.023)	286318	2.39478	318.45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
30	2-Methylphenol	108	3.625	3.603	(1.041)	355598	2.24145	298.06
31	bis(2-Chloroisopropyl)ether	45	3.636	3.625	(1.045)	623033	1.95338	259.76(M)
37	Acetophenone	105	3.743	3.732	(1.075)	570696	2.26397	301.06
32	N-Nitroso-di-n-propylamine	70	3.726	3.721	(1.071)	311613	2.24956	299.14
192	4-Methylphenol	108	3.726	3.705	(1.071)	794108	4.75056	631.72
34	Hexachloroethane	117	3.833	3.828	(1.101)	109748	1.48233	197.12(R)
35	Nitrobenzene	77	3.866	3.855	(0.885)	425773	2.09783	278.97(R)
41	Isophorone	82	4.026	4.015	(0.922)	829162	2.19194	291.48(R)
42	2-Nitrophenol	139	4.085	4.079	(0.935)	239568	2.37381	315.66(Q)
43	2,4-Dimethylphenol	107	4.096	4.079	(0.938)	291954	1.76609	234.85
44	bis(2-Chloroethoxy)methane	93	4.154	4.144	(0.951)	503013	2.24107	298.01(R)
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	4.256	4.245	(0.974)	340940	2.77981	369.66
49	Benzoic Acid	122	4.138	4.160	(0.947)	50668	1.42426	189.40
50	1,2,4-Trichlorobenzene	180	4.320	4.315	(0.989)	338746	2.19464	291.84
51	Naphthalene	128	4.379	4.374	(1.002)	1278796	2.33508	310.52
52	4-Chloroaniline	127	4.400	4.395	(1.007)	43856	0.21659	28.802(R)
56	Hexachlorobutadiene	225	4.459	4.454	(1.021)	178024	2.21955	295.15(R)
210	Caprolactam	113	4.663	4.641	(1.067)	89218	1.42686	189.74
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	4.737	4.721	(1.084)	399754	2.52398	335.64
62	2-Methylnaphthalene	142	4.871	4.866	(1.115)	869514	2.93641	390.48
63	1-Methylnaphthalene	142	4.946	4.941	(1.132)	834321	2.40994	320.47
64	Hexachlorocyclopentadiene	237	4.983	4.983	(0.885)	78156	0.79117	105.21(R)
66	2,4,6-Trichlorophenol	196	5.069	5.058	(0.900)	241531	2.41292	320.87
67	2,4,5-Trichlorophenol	196	5.101	5.090	(0.906)	270196	2.40845	320.27
211	1,1'-Biphenyl	154	5.197	5.197	(0.923)	1044400	2.15853	287.04
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	5.224	5.224	(0.928)	797147	2.28041	303.25
73	2-Nitroaniline	65	5.288	5.278	(0.939)	273246	2.24124	298.04(R)
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	5.395	5.395	(0.958)	956856	2.35455	313.10
78	2,6-Dinitrotoluene	165	5.449	5.443	(0.968)	235612	2.50324	332.88
79	Acenaphthylene	152	5.534	5.529	(0.983)	1365761	2.36264	314.18
80	1,2-Dinitrobenzene	168	5.497	5.492	(0.976)	113865	2.45055	325.87
81	3-Nitroaniline	138	5.582	5.572	(0.991)	87753	0.80266	106.74(R)
82	Acenaphthene	153	5.657	5.652	(1.005)	840312	2.19266	291.58
83	2,4-Dinitrophenol	184	5.657	5.647	(1.005)	88224	1.77910	236.58(Q)
85	4-Nitrophenol	109	5.695	5.673	(1.011)	130724	2.75373	366.19
86	Dibenzofuran	168	5.780	5.775	(1.027)	1172619	2.33506	310.51(R)
87	2,4-Dinitrotoluene	165	5.743	5.738	(1.020)	301633	2.32864	309.66
91	2,3,5,6-Tetrachlorophenol	232	5.834	5.823	(1.036)	226014	2.36951	315.09
93	Diethylphthalate	149	5.903	5.898	(1.048)	1018448	2.39601	318.62
94	Fluorene	166	6.026	6.026	(1.070)	996239	2.30756	306.86
95	4-Chlorophenyl-phenylether	204	6.010	6.005	(1.067)	455644	2.38670	317.38(R)
96	4-Nitroaniline	138	6.026	6.021	(1.070)	114059	1.01372	134.80(R)
98	4,6-Dinitro-2-methylphenol	198	6.048	6.037	(0.900)	153260	1.83209	243.63
99	N-Nitrosodiphenylamine	169	6.091	6.085	(0.907)	643969	2.01819	268.38
100	1,2-Diphenylhydrazine	77	6.123	6.123	(0.912)	1057320	2.21286	294.26
106	4-Bromophenyl-phenylether	248	6.369	6.363	(0.948)	275155	2.44154	324.67(R)
107	Hexachlorobenzene	284	6.438	6.433	(0.959)	265325	2.42865	322.96(R)

212 Atrazine	200	6.460	6.454 (0.962)	275985	3.83373	509.80
111 Pentachlorophenol	266	6.577	6.567 (0.979)	175384	2.44865	325.62

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
115	Phenanthrene	178	6.732	6.727	(1.002)	1535880	2.48718	330.74(R)
116	Anthracene	178	6.770	6.765	(1.008)	1512719	2.43224	323.44(R)
119	Carbazole	167	6.877	6.866	(1.024)	1371907	2.30648	306.71
120	Di-n-Butylphthalate	149	7.080	7.075	(1.054)	1878989	2.74926	365.59
123	Fluoranthene	202	7.604	7.599	(1.132)	1882664	3.00991	400.25
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.775	7.770	(0.896)	1873272	2.60692	346.66
131	Butylbenzylphthalate	149	8.187	8.182	(0.944)	873306	2.47482	329.10
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	8.663	8.653	(0.999)	1859005	2.58024	343.12(R)
137	Chrysene	228	8.690	8.685	(1.002)	1774652	2.64946	352.32(R)
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.594	8.588	(0.991)	1365240	2.71895	361.56
140	Di-n-octylphthalate	149	9.113	9.107	(0.907)	2184512	2.60780	346.78
141	Benzo(b)fluoranthene	252	9.621	9.610	(0.957)	2081324	2.96142	393.80
142	Benzo(k)fluoranthene	252	9.647	9.637	(0.960)	1911686	2.46149	327.33
146	Benzo(a)pyrene	252	9.984	9.968	(0.994)	1498499	2.23166	296.76
149	Indeno(1,2,3-cd)pyrene	276	11.536	11.503	(1.148)	1992237	2.66185	353.97
150	Dibenz(a,h)anthracene	278	11.541	11.509	(1.148)	1673498	2.68296	356.78
151	Benzo(g,h,i)perylene	276	11.990	11.953	(1.193)	1634177	2.67209	355.33
198	1,4-Dioxane	88	1.667	1.683	(0.479)	47671	0.69508	92.431
$ 154	Nitrobenzene-d5	82	3.855	3.844	(0.882)	406251	1.86545	248.06
$ 155	2-Fluorobiphenyl	172	5.122	5.117	(0.910)	850499	2.15001	285.91
$ 156	Terphenyl-d14	244	7.856	7.845	(0.906)	1178516	2.60334	346.19
$ 157	Phenol-d5	99	3.261	3.181	(0.937)	718746	3.38630	450.31(H)
$ 158	2-Fluorophenol	112	2.694	2.603	(0.774)	563477	3.47427	462.00
$ 159	2,4,6-Tribromophenol	330	6.203	6.198	(1.102)	164398	3.36824	447.90
$ 186	2-Chlorophenol-d4	132	3.357	3.315	(0.965)	575505	3.45250	459.11
$ 187	1,2-Dichlorobenzene-d4	152	3.593	3.582	(1.032)	221840	1.94480	258.62
M 195	Cresols, total	100				1149706	6.99201	929.79
101	Diphenylamine	169	6.091	6.085	(0.907)	643969	2.01819	268.38

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: LVTQQ1A7.D
Lab Smp Id: lvtqq1a7
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Client Smp ID: B12SS-036M-5038-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	283705	-9.77
2 Naphthalene-d8	1302947	651474	2605894	1231532	-5.48
3 Acenaphthene-d10	667302	333651	1334604	697546	4.53
4 Phenanthrene-d10	1052286	526143	2104572	1143037	8.62
5 Chrysene-d12	1252372	626186	2504744	1459548	16.54
6 Perylene-d12	1122003	561002	2244006	1395022	24.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.48	0.31
2 Naphthalene-d8	4.36	3.86	4.86	4.37	0.25
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.10
4 Phenanthrene-d10	6.71	6.21	7.21	6.72	0.08
5 Chrysene-d12	8.66	8.16	9.16	8.67	0.12
6 Perylene-d12	10.03	9.53	10.53	10.05	0.21

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LVTQQ1A7.D

Page 1

Date : 02-MAR-2010 15:41

Client ID: B12SS-036M-5038-SO

Instrument: a4hp7.i

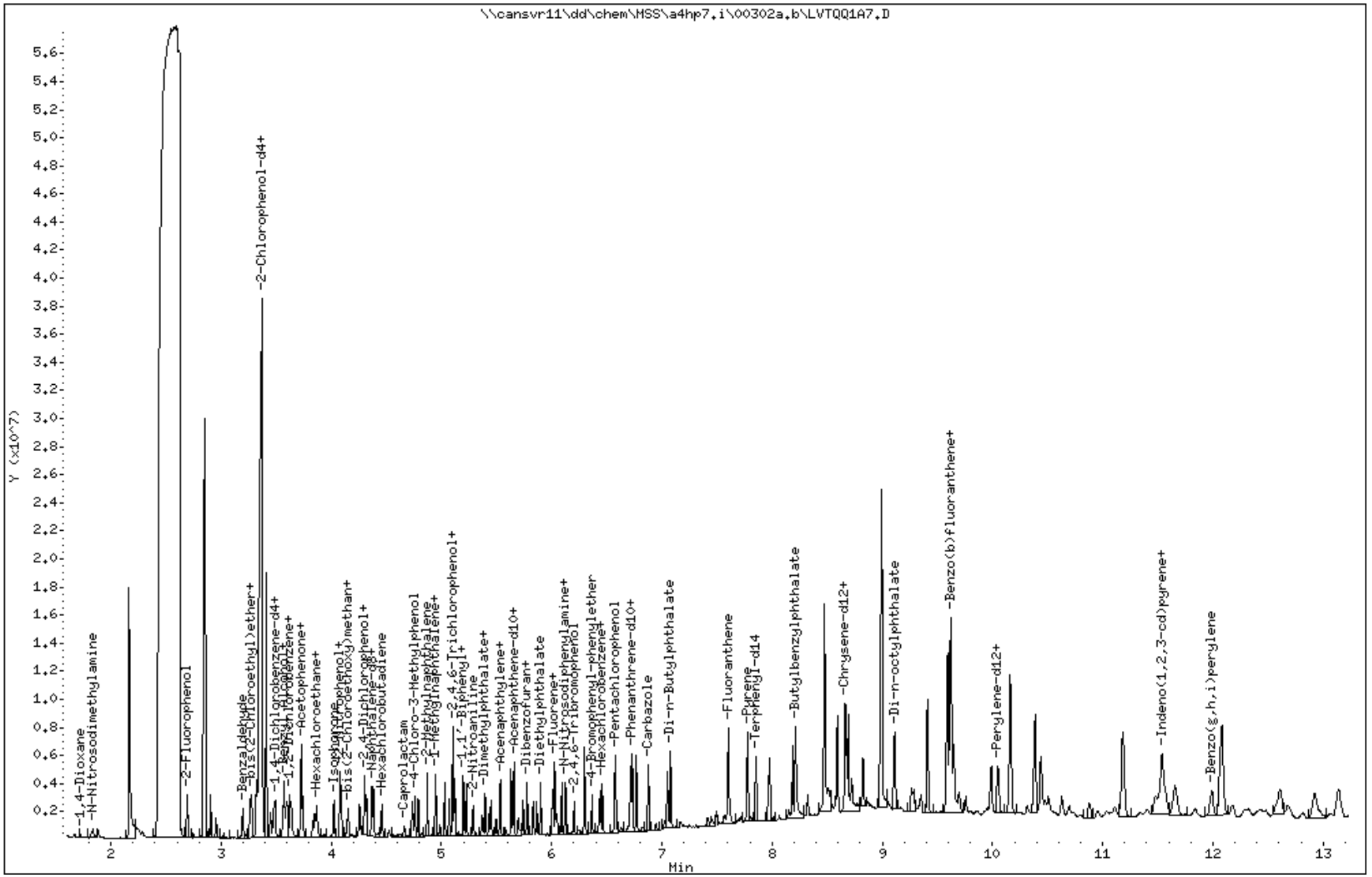
Sample Info: lvtqq1a7,00302a.b,8270C-625,1-827042d.sub

Volume Injected (uL): 0.5

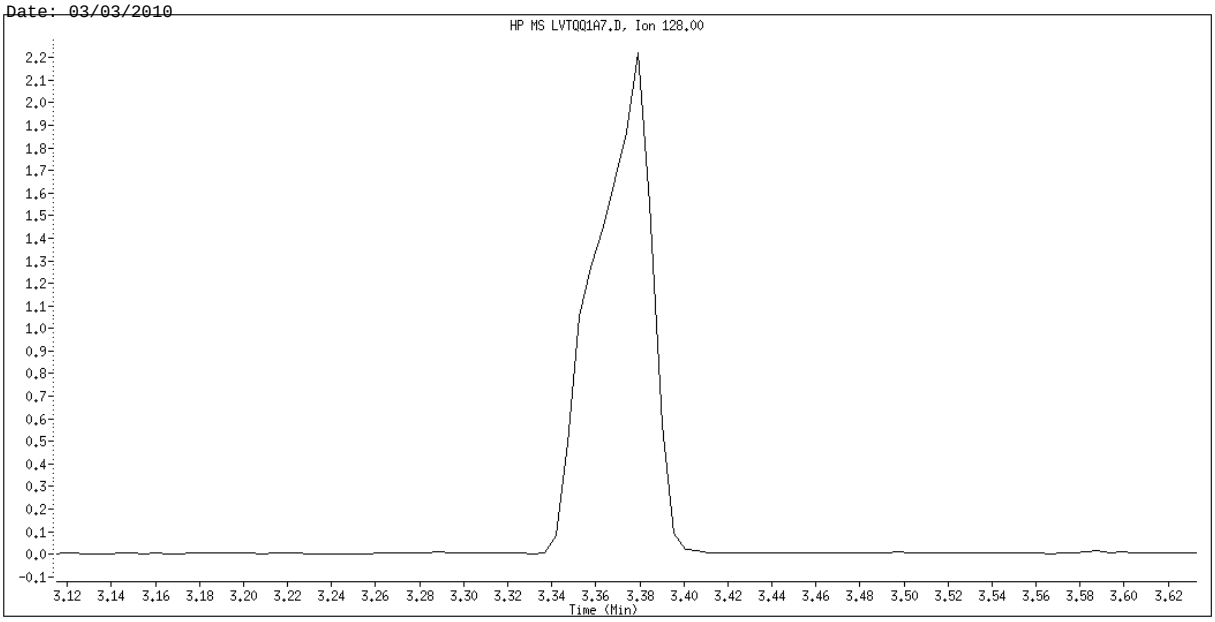
Operator: 001710

Column phase: db5.625

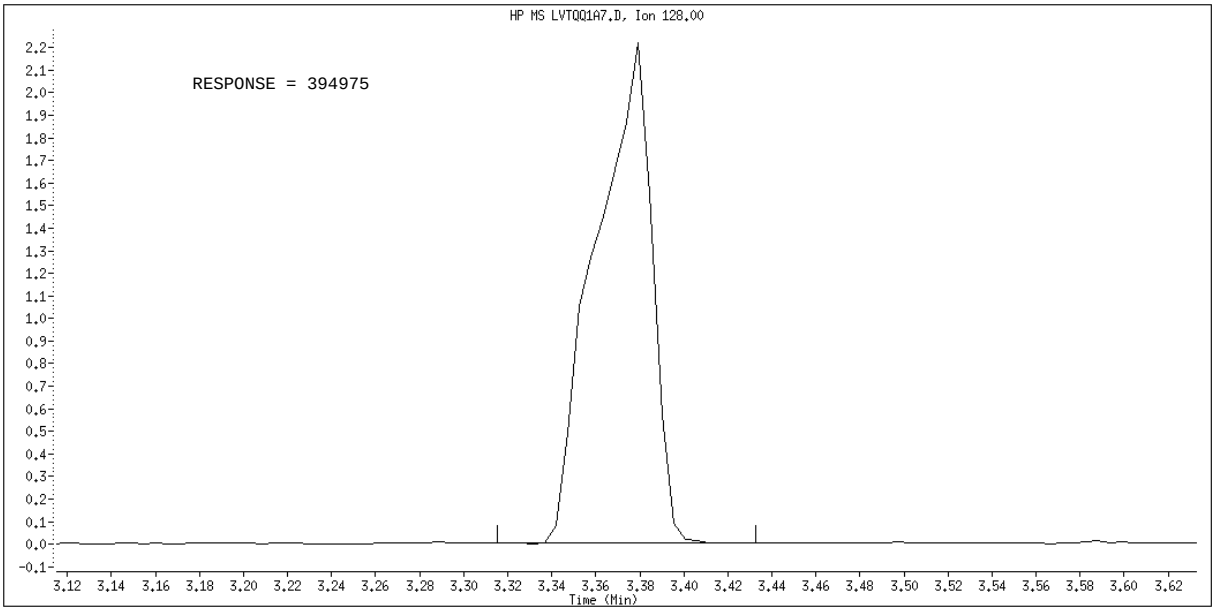
Column diameter: 0.32



Data File Name: LVTQQ1A7.D
Inj. Date and Time: 02-MAR-2010 15:41
Instrument ID: a4hp7.i
Client ID: B12SS-036M-5038-SO
Compound Name: 2-Chlorophenol
CAS #: 95-57-8
Report Date: 03/03/2010



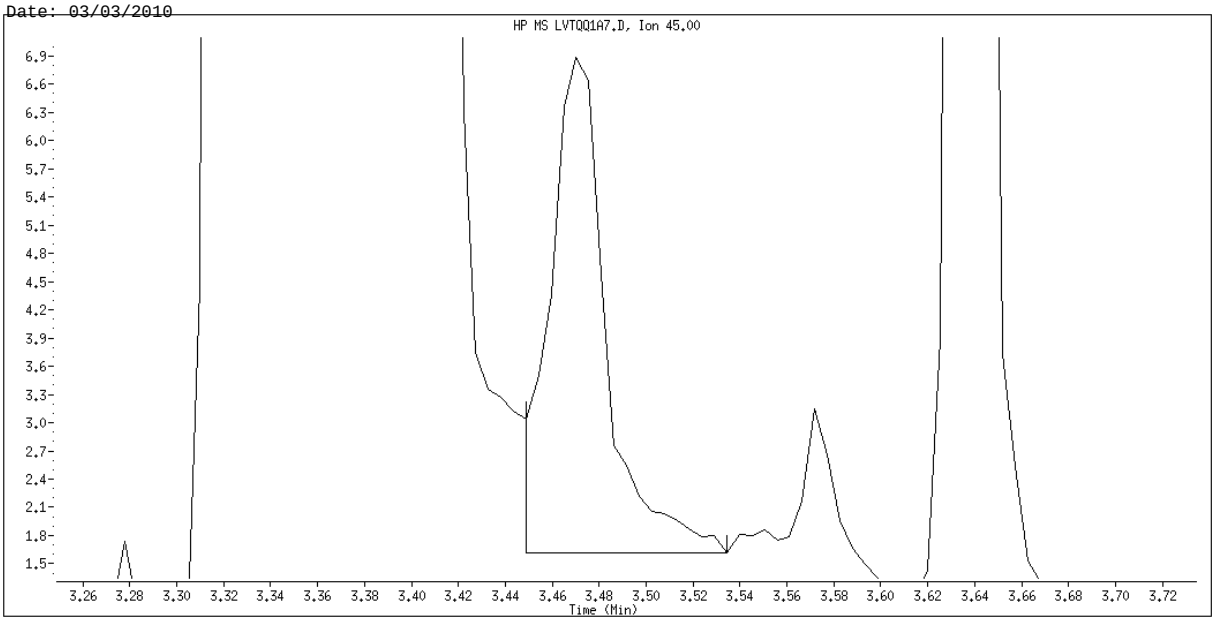
Original Integration



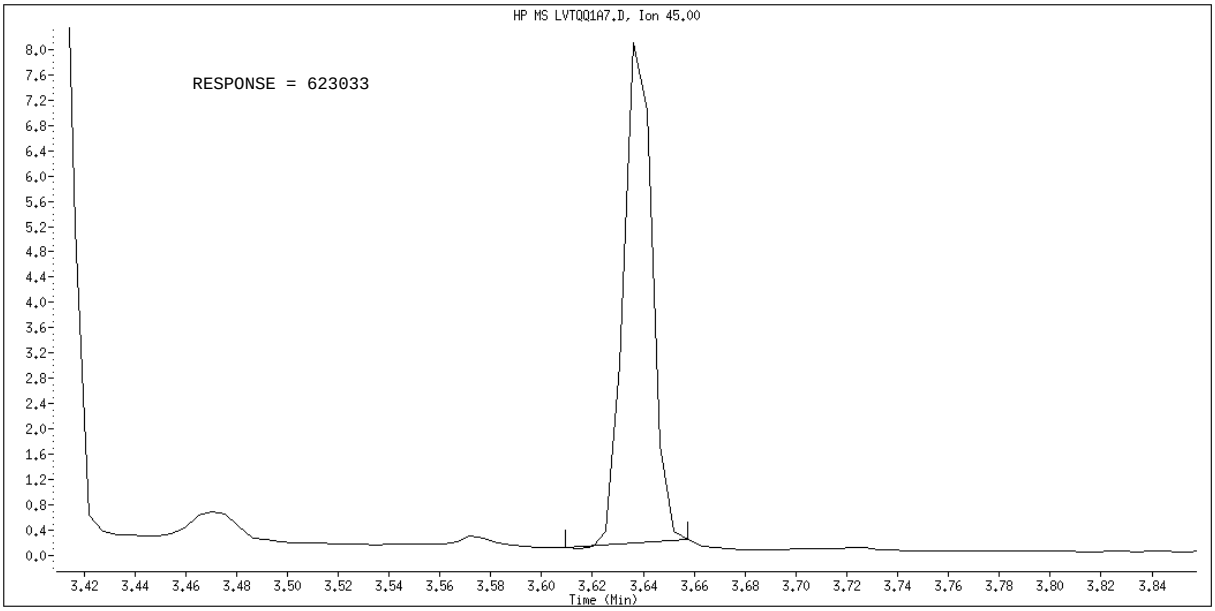
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: LVTQQ1A7.D
Inj. Date and Time: 02-MAR-2010 15:41
Instrument ID: a4hp7.i
Client ID: B12SS-036M-5038-SO
Compound Name: bis(2-Chloroisopropyl)ether
CAS #: 108-60-1
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LVTQQ1A8.D
Lab Smp Id: lvtqq1a8 Client Smp ID: B12SS-036M-5038-SO
Inj Date : 02-MAR-2010 16:00
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lvtqq1a8,00302a.b,8270C-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Meth Date : 03-Mar-2010 13:33 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 22 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.180	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
* 1	1,4-Dichlorobenzene-d4	152	3.480	3.470	(1.000)	252759	2.00000	
* 2	Naphthalene-d8	136	4.368	4.358	(1.000)	1115833	2.00000	
* 3	Acenaphthene-d10	164	5.630	5.625	(1.000)	652504	2.00000	
* 4	Phenanthrene-d10	188	6.716	6.711	(1.000)	1046527	2.00000	
* 5	Chrysene-d12	240	8.668	8.663	(1.000)	1351284	2.00000	
* 6	Perylene-d12	264	10.048	10.027	(1.000)	1288590	2.00000	
9	Pyridine	79	Compound Not Detected.					
10	N-Nitrosodimethylamine	74	1.838	1.844	(0.528)	231788	2.47383	327.88(M)
11	Ethyl methacrylate	69	Compound Not Detected.					
12	3-Chloropropionitrile	54	Compound Not Detected.					
13	Malononitrile	66	Compound Not Detected.					
209	Benzaldehyde	77	3.197	3.176	(0.919)	317208	2.86043	379.12(H)
21	Aniline	93	Compound Not Detected.					
22	Phenol	94	3.282	3.186	(0.943)	639780	3.14329	416.61(H)
23	bis(2-Chloroethyl)ether	93	3.277	3.261	(0.942)	496490	2.76362	366.28
24	2-Chlorophenol	128	3.384	3.331	(0.972)	453999	2.80005	371.11
26	1,3-Dichlorobenzene	146	3.448	3.432	(0.991)	410536	2.43297	322.46
27	1,4-Dichlorobenzene	146	3.491	3.480	(1.003)	421856	2.54402	337.18

28	1,2-Dichlorobenzene	146	3.603	3.587 (1.035)	414259	2.56861	340.44
29	Benzyl Alcohol	108	3.566	3.539 (1.025)	326778	3.06782	406.60

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
30	2-Methylphenol	108	3.630	3.603	(1.043)	413048	2.92234	387.32
31	bis(2-Chloroisopropyl)ether	45	3.641	3.625	(1.046)	716634	2.52193	334.25(QM)
37	Acetophenone	105	3.742	3.732	(1.075)	635253	2.82860	374.90
32	N-Nitroso-di-n-propylamine	70	3.732	3.721	(1.072)	358422	2.90427	384.93
192	4-Methylphenol	108	3.726	3.705	(1.071)	904390	5.95033	788.64
34	Hexachloroethane	117	3.833	3.828	(1.101)	121826	1.84692	244.79(R)
35	Nitrobenzene	77	3.865	3.855	(0.885)	483043	2.62678	348.15
41	Isophorone	82	4.026	4.015	(0.922)	961682	2.80587	371.88
42	2-Nitrophenol	139	4.090	4.079	(0.936)	273786	2.99415	396.84(Q)
43	2,4-Dimethylphenol	107	4.095	4.079	(0.938)	342688	2.24456	297.49
44	bis(2-Chloroethoxy)methane	93	4.154	4.144	(0.951)	575834	2.83152	375.28
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	4.261	4.245	(0.976)	404777	3.54639	470.03
49	Benzoic Acid	122	4.144	4.160	(0.949)	104482	1.88991	250.48
50	1,2,4-Trichlorobenzene	180	4.320	4.315	(0.989)	380483	2.72064	360.59
51	Naphthalene	128	4.384	4.374	(1.004)	1476634	2.97592	394.42
52	4-Chloroaniline	127	4.406	4.395	(1.009)	68756	0.37477	49.671(R)
56	Hexachlorobutadiene	225	4.459	4.454	(1.021)	197795	2.72175	360.74
210	Caprolactam	113	4.668	4.641	(1.069)	151510	2.67433	354.45
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	4.737	4.721	(1.084)	489723	3.41263	452.30
62	2-Methylnaphthalene	142	4.871	4.866	(1.115)	1007588	3.75552	497.75
63	1-Methylnaphthalene	142	4.946	4.941	(1.132)	976893	3.11434	412.77
64	Hexachlorocyclopentadiene	237	4.983	4.983	(0.885)	88341	0.95600	126.71
66	2,4,6-Trichlorophenol	196	5.069	5.058	(0.900)	286383	3.05849	405.37
67	2,4,5-Trichlorophenol	196	5.101	5.090	(0.906)	329888	3.14351	416.64
211	1,1'-Biphenyl	154	5.203	5.197	(0.924)	1227401	2.71186	359.42
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	5.229	5.224	(0.929)	945224	2.89068	383.12
73	2-Nitroaniline	65	5.288	5.278	(0.939)	332067	2.91173	385.91
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	5.400	5.395	(0.959)	1172135	3.08339	408.67
78	2,6-Dinitrotoluene	165	5.449	5.443	(0.968)	277520	3.15201	417.76
79	Acenaphthylene	152	5.534	5.529	(0.983)	1629188	3.01290	399.32
80	1,2-Dinitrobenzene	168	5.497	5.492	(0.976)	136117	3.13167	415.06
81	3-Nitroaniline	138	5.582	5.572	(0.991)	101492	0.99241	131.53(R)
82	Acenaphthene	153	5.657	5.652	(1.005)	1003140	2.79822	370.87
83	2,4-Dinitrophenol	184	5.657	5.647	(1.005)	119629	2.29112	303.66(Q)
85	4-Nitrophenol	109	5.695	5.673	(1.011)	160419	3.51591	465.99
86	Dibenzofuran	168	5.780	5.775	(1.027)	1403695	2.98816	396.04(R)
87	2,4-Dinitrotoluene	165	5.743	5.738	(1.020)	369020	3.04553	403.65
91	2,3,5,6-Tetrachlorophenol	232	5.834	5.823	(1.036)	271973	3.04817	404.00
93	Diethylphthalate	149	5.903	5.898	(1.048)	1208218	3.03868	402.74
94	Fluorene	166	6.032	6.026	(1.071)	1187575	2.94063	389.74
95	4-Chlorophenyl-phenylether	204	6.010	6.005	(1.067)	541373	3.03150	401.79
96	4-Nitroaniline	138	6.026	6.021	(1.070)	138669	1.31752	174.62(R)
98	4,6-Dinitro-2-methylphenol	198	6.048	6.037	(0.900)	190502	2.48729	329.66
99	N-Nitrosodiphenylamine	169	6.090	6.085	(0.907)	796254	2.72558	361.24
100	1,2-Diphenylhydrazine	77	6.123	6.123	(0.912)	1279620	2.92508	387.68
106	4-Bromophenyl-phenylether	248	6.369	6.363	(0.948)	329638	3.19472	423.42
107	Hexachlorobenzene	284	6.438	6.433	(0.959)	310135	3.10061	410.95

212 Atrazine	200	6.465	6.454 (0.963)	337578	5.12178	678.83(R)
111 Pentachlorophenol	266	6.577	6.567 (0.979)	217190	3.18722	422.43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
115 Phenanthrene	178	6.732	6.727	(1.002)	1843027	3.25980	432.05
116 Anthracene	178	6.770	6.765	(1.008)	1814929	3.18726	422.43
119 Carbazole	167	6.877	6.866	(1.024)	1664981	3.05734	405.21
120 Di-n-Butylphthalate	149	7.080	7.075	(1.054)	2227151	3.55919	471.73
123 Fluoranthene	202	7.604	7.599	(1.132)	2202467	3.84591	509.73
124 Benzidine	184	Compound Not Detected.					
125 Pyrene	202	7.775	7.770	(0.897)	2219048	3.33553	442.08
131 Butylbenzylphthalate	149	8.187	8.182	(0.944)	1039832	3.18282	421.84
133 3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136 Benzo(a)Anthracene	228	8.663	8.653	(0.999)	2165366	3.24625	430.25
137 Chrysene	228	8.690	8.685	(1.002)	2095895	3.37976	447.95
138 4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139 bis(2-ethylhexyl)Phthalate	149	8.588	8.588	(0.991)	1615425	3.47497	460.56
140 Di-n-octylphthalate	149	9.107	9.107	(0.906)	2613668	3.37782	447.69
141 Benzo(b)fluoranthene	252	9.621	9.610	(0.957)	2497144	3.84653	509.81
142 Benzo(k)fluoranthene	252	9.647	9.637	(0.960)	2245687	3.13038	414.89
146 Benzo(a)pyrene	252	9.984	9.968	(0.994)	1800108	2.90227	384.66
149 Indeno(1,2,3-cd)pyrene	276	11.541	11.503	(1.149)	2372564	3.43184	454.85
150 Dibenz(a,h)anthracene	278	11.541	11.509	(1.149)	1995123	3.46278	458.95
151 Benzo(g,h,i)perylene	276	11.995	11.953	(1.194)	1938362	3.43126	454.77
198 1,4-Dioxane	88	1.662	1.683	(0.478)	45912	0.75140	99.588
$ 154 Nitrobenzene-d5	82	3.855	3.844	(0.882)	464813	2.35567	312.22
$ 155 2-Fluorobiphenyl	172	5.122	5.117	(0.910)	984779	2.66131	352.72
$ 156 Terphenyl-d14	244	7.856	7.845	(0.906)	1385926	3.30679	438.28
$ 157 Phenol-d5	99	3.266	3.181	(0.939)	806487	4.26489	565.26(H)
$ 158 2-Fluorophenol	112	2.694	2.603	(0.774)	620252	4.29256	568.93
$ 159 2,4,6-Tribromophenol	330	6.208	6.198	(1.103)	195221	4.27585	566.71
$ 186 2-Chlorophenol-d4	132	3.368	3.315	(0.968)	642976	4.32953	573.83
$ 187 1,2-Dichlorobenzene-d4	152	3.593	3.582	(1.032)	246979	2.43027	322.10
M 195 Cresols, total	100				1317438	8.87267	1176.0
101 Diphenylamine	169	6.090	6.085	(0.907)	796254	2.72558	361.24

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: LVTQQ1A8.D
Lab Smp Id: lvtqq1a8
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\8270C-625.m
Misc Info:

Calibration Date: 02-MAR-2010
Calibration Time: 09:36
Client Smp ID: B12SS-036M-5038-SO
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	314430	157215	628860	252759	-19.61
2 Naphthalene-d8	1302947	651474	2605894	1115833	-14.36
3 Acenaphthene-d10	667302	333651	1334604	652504	-2.22
4 Phenanthrene-d10	1052286	526143	2104572	1046527	-0.55
5 Chrysene-d12	1252372	626186	2504744	1351284	7.90
6 Perylene-d12	1122003	561002	2244006	1288590	14.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.48	0.30
2 Naphthalene-d8	4.36	3.86	4.86	4.37	0.24
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.09
4 Phenanthrene-d10	6.71	6.21	7.21	6.72	0.08
5 Chrysene-d12	8.66	8.16	9.16	8.67	0.06
6 Perylene-d12	10.03	9.53	10.53	10.05	0.21

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00302a.b\LVTQQ1A8.D

Page 1

Date : 02-MAR-2010 16:00

Client ID: B12SS-036M-5038-SO

Instrument: a4hp7.i

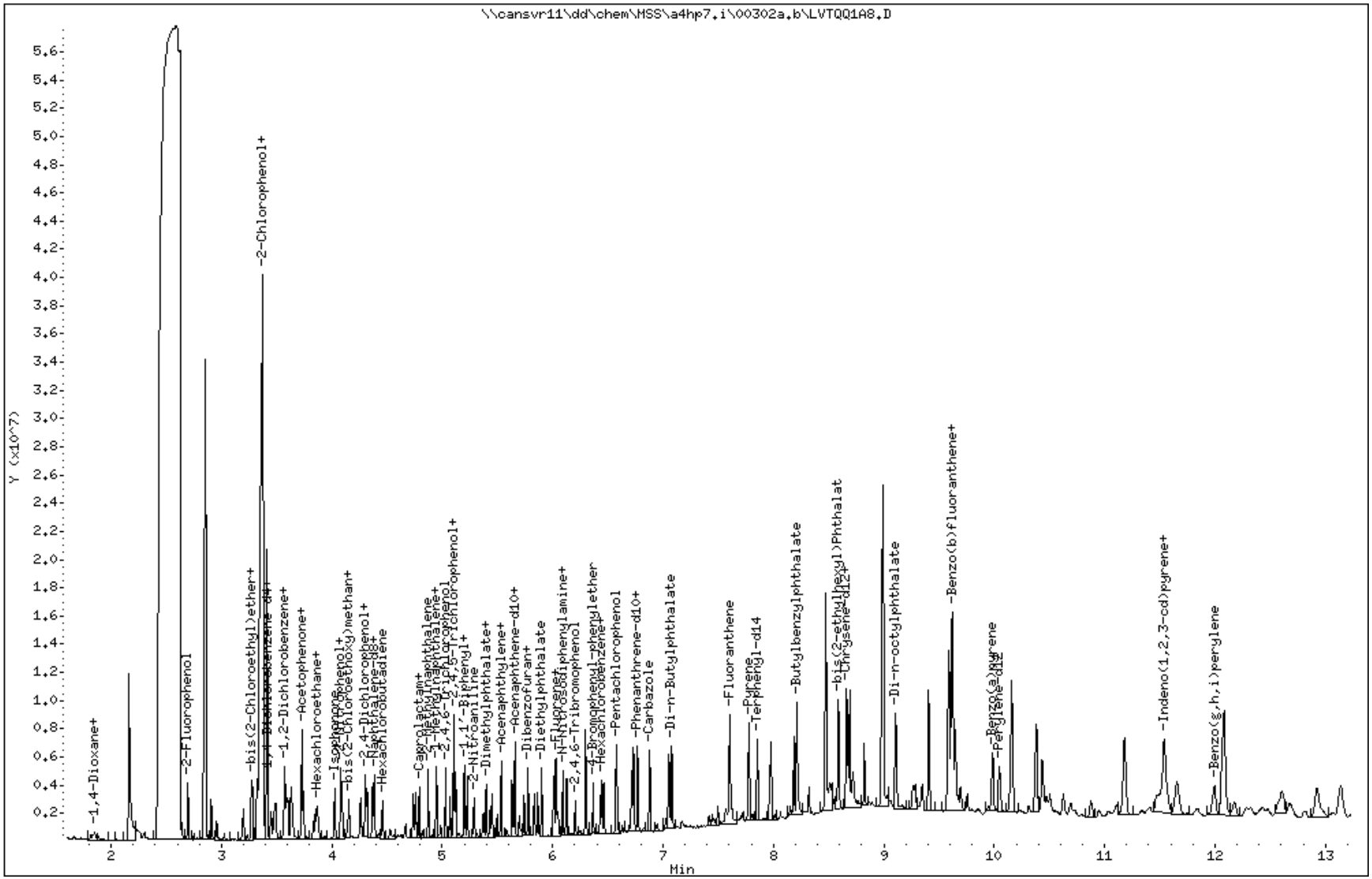
Sample Info: lvtqq1a8,00302a.b,8270C-625,1-827042d.sub

Volume Injected (uL): 0.5

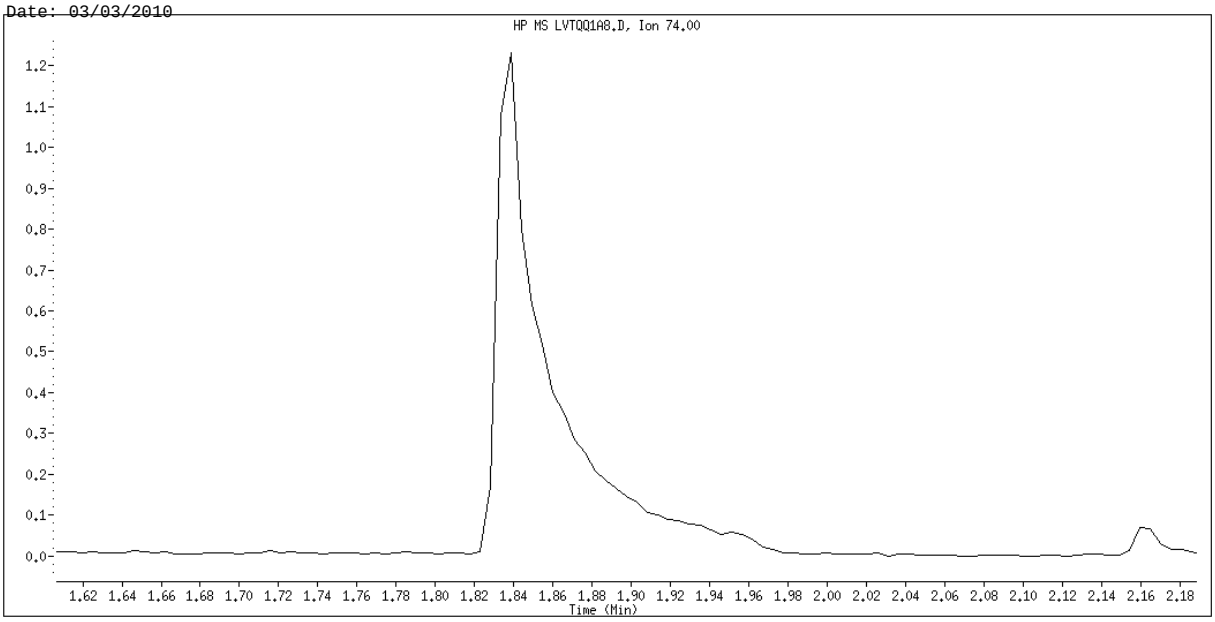
Operator: 001710

Column phase: db5.625

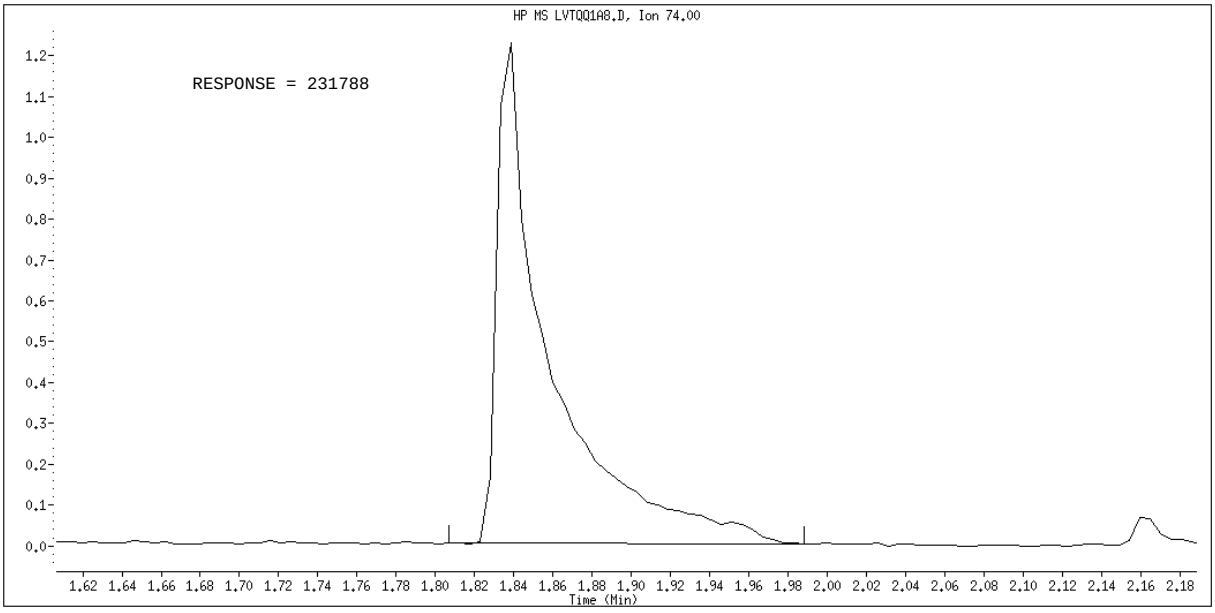
Column diameter: 0.32



Data File Name: LVTQQ1A8.D
Inj. Date and Time: 02-MAR-2010 16:00
Instrument ID: a4hp7.i
Client ID: B12SS-036M-5038-SO
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 03/03/2010



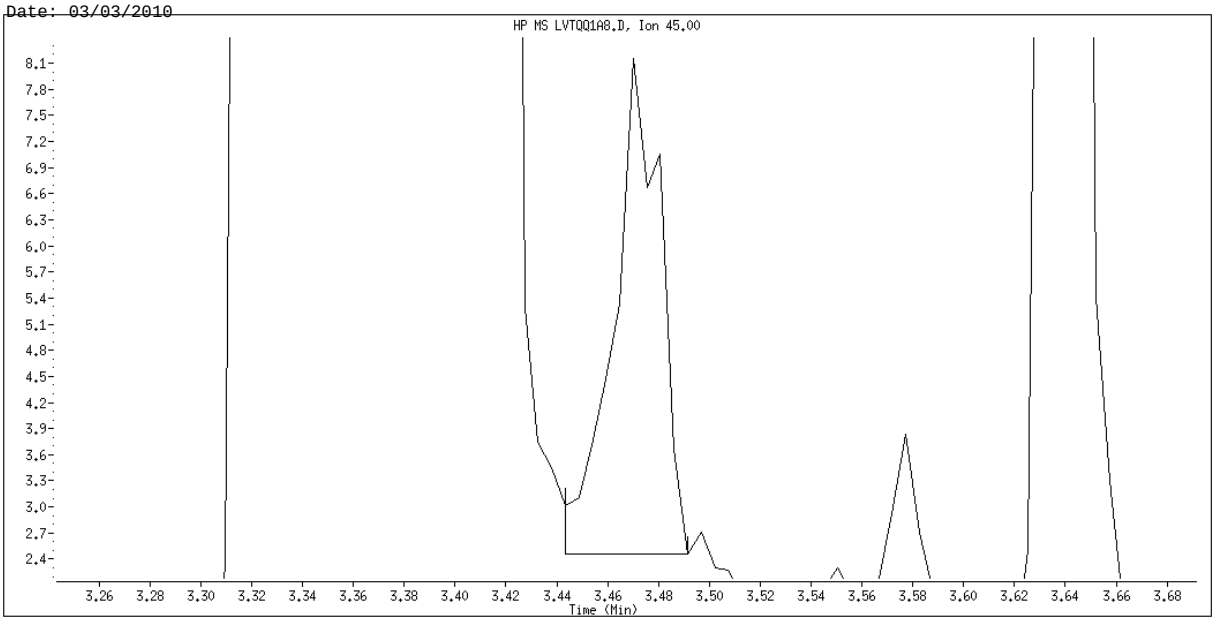
Original Integration



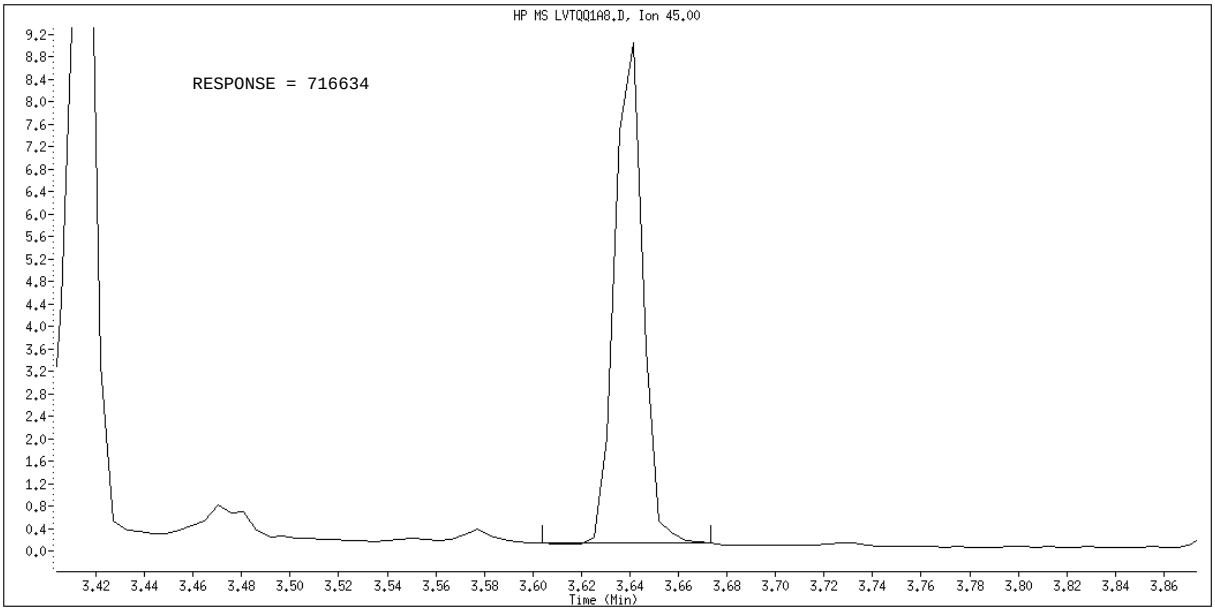
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: LVTQQ1A8.D
Inj. Date and Time: 02-MAR-2010 16:00
Instrument ID: a4hp7.i
Client ID: B12SS-036M-5038-SO
Compound Name: bis(2-Chloroisopropyl)ether
CAS #: 108-60-1
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr: a4hp7.i

Method 8270C 625 | IS#: SV3548 | Date: 01-MAR-2010 15:04

GC Program #: 2 | MeCl2 H50J00

Data File	Client ID	Sample ID	ALS	DF	Analyst	QUAL	Comments
7DF0301.D	SV3549	dftpp	1	1	001710	ok	(15:04)
7DF0301T.D	SV3549	dftpp	1	1	001710	ok	(15:04)
7SMM0301.D	SV3584	15	2	1	001710	ok	
7SM0301.D	SV3583	14	3	1	001710	"	
7SML0301.D	SV3582	13	4	1	001710	"	
7SL0301.D	SV3581	12	5	1	001710	"	
7SLL0301.D	SV3580	11	6	1	001710	"	
7SHHH0301.D	SV3588	19	7	1	001710	"	
7SHH0301.D	SV3587	18	8	1	001710	"	
7SH0301.D	SV3586	17	9	1	001710	"	
7SMH0301.D	SV3585	16	10	1	001710	"	
ICVTCL.D	SV3589	icvtcl	11	1	001710	"	
7AHHH0301.D	SV3576	L9	12	1	001710	"	
7AHH0301.D	SV3575	L8	13	1	001710	"	
7AH0301.D	SV3574	L7	14	1	001710	"	
7AMH0301.D	SV3573	L6	15	1	001710	"	
7AMM0301.D	SV3572	L5	16	1	001710	"	
7AM0301.D	SV3571	L4	17	1	001710	"	
7AML0301.D	SV3570	L3	18	1	001710	"	
7AL0301.D	SV3569	L2	19	1	001710	"	
ICVAP9.D	SV3577	icvap9	20	1	001710	"	

3/2/10

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4hp7.i

Method 8270C 625 IS#: SV3548 Date: 02-MAR-2010 09:17

MeCL2 Lot#: 1150J00 Operator: 001710

GC Program #: 2

OK mc 3/3/10

Data File	Client ID-STD #	Sample ID	DF	Prep	Init	Unit	Fin	Comments	QUAL
7DF0302.D	SV3549							DFTPP (9:17)	ok
7DF0302T.D	SV3549							DFTPP (9:17)	ok
7SMH0302.D	SV3585							CCALIB_6	ok
QCMRLCK.D	SV3584							mrl	ok
LV0FP1AA.D	INTRA-LAB BLANK			02/23	30	g	2	METHOD BLANK	ok
LV0FP1AC.D	INTRA-LAB CHECK			02/23	30	g	2	METHOD SPIKE	ok
LVWW51AC.D	LL9SD-111-5469-SD	A0B190524		02/23	30	g	2	SAMPLE	ok
LVWW51AD.D	LL9SD-111-5469-SD	A0B190524		02/23	30	g	2	MS	ok
LVWW51AE.D	LL9SD-111-5469-SD	A0B190524		02/23	30	g	2	MSD	ok
LVWW91AD.D	LL9SD-113-5471-SD	A0B190524		02/23	30	g	2	SAMPLE	ok
LVWXC1AP.D	LL9SD-113-6147-FD	A0B190524		02/23	30	g	2	SAMPLE	ok
LVWX81AD.D	L10SD-094-5531-SD	A0B190524		02/23	30	g	2	SAMPLE	ok
LVWXF1AF.D	LL9SD-114-5472-SD	A0B190524		02/23	30	g	2	SAMPLE	ok
LVWX11AD.D	FWSSD-103-5013-SD	A0B190524		02/23	30	g	2	SAMPLE	ok
LVTQ31A7.D	B12SS-038M-5040-SO	A0B180429		02/23	30	g	2	SAMPLE	ok
LVTT01AC.D	ATASS-015M-5036-SO	A0B180429		02/23	30	g	2	SAMPLE	ok
LVVFK1AD.D	FWSSD-102-5011-SD	A0B180524		02/23	30	g	2	SAMPLE	ok
LVVF11AP.D	LL6SD-082-5245-SD	A0B180524		02/23	30	g	2	SAMPLE	ok
LVVF61AP.D	LL6SD-082-6063-FD	A0B180524		02/23	30	g	2	SAMPLE	ok
LVTQQ1A5.D	B12SS-036M-5038-SO	A0B180429		02/23	30	g	2	SAMPLE	ok
LVTQQ1A7.D	B12SS-036M-5038-SO	A0B180429		02/23	30	g	2	MS	ok
LVTQQ1A8.D	B12SS-036M-5038-SO	A0B180429		02/23	30	g	2	MSD	ok
LVTQ11AG.D	B12SS-037M-5039-SO	A0B180429		02/23	30	g	2	SAMPLE	ok
LVTQ21AG.D	B12SS-037M-6049-FD	A0B180429		02/23	30	g	2	SAMPLE	ok
QCMRLCL.D	SV3584							mrl	Fail
MDLL1.D	SV3580							mrl	ok

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4hp7.i

Method 8270C 625 | IS#: SV3548 | Date: 02-MAR-2010 09:17

MeCL2 Lot#: H50J00 | Operator: 001710

GC Program #: 2

Data File	Client ID-STD #	Sample ID	DF	Prep	Init	Unit	Fin	Comments	QUAL	
MDLL2.D	SV3581							mrl	ok	
MDLL3.D	SV3582							mrl	ok	
LV6351AA.D	INTRA-LAB BLANK			03/02	30	g	2	METHOD BLANK	ok	
LV6351AC.D	INTRA-LAB CHECK			03/02	30	g	2	METHOD SPIKE	ok	
LV6T71AC.D	SO-59965-022410-CB-	A0C010456		03/02	30	g	2	SAMPLE	ok	
LV6T71A8.D	SO-59965-022410-CB-	A0C010456		03/02	30	g	2	MS	ok	
LV6T71A9.D	SO-59965-022410-CB-	A0C010456		03/02	30	g	2	MSD	ok	
LV6VG1AC.D	SO-59965-022410-CB-	A0C010456		03/02	30	g	2	SAMPLE	ok rext	ss↓
LV6VK1AC.D	SO-59965-022410-CB-	A0C010456		03/02	30	g	2	SAMPLE	ok rext	ss↓
LV6VL1AC.D	SO-59965-022410-CB-	A0C010456		03/02	30	g	2	SAMPLE	ok	
LV6WF1AC.D	SO-59965-022510-CB-	A0C010456		03/02	30	g	2	SAMPLE	ok	

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
4523B	10-15-08	10-16-09	Pest TCLP spike	WAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
—	Y N	—		PASS FAIL

SOURCE STICKER	COMMENTS
	Re-confirmed with Batch # 9195035 on 7-14-09.

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
—	7-23-09	5-2010	BNA Restek spike	WAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
6-30-09	(Y) N	—	—	PASS FAIL

SOURCE STICKER	COMMENTS
Restek Catalog# 554203 Received 6-30-09 Sonicate ampule 15 minutes prior to opening Custom Spike Mix 100 ug/mL each in Acetone/Methylene Chloride (95:5) Lot # A087710 Exp. Date: 05/2010 Restek Corporation 110 Benner Circle - Bellefonte, PA 16823 FOR LABORATORY USE ONLY	New lot placed into service on 7-23-09

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
4596	9-9-09	3-9-10	2,4,2 surr.	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
200 ug/mL	2mL	2000 mL	.02 ug/mL	1 & 2

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
6-26-09	(Y) N	MeOH #G49E42	9-9-09	(PASS) FAIL

SOURCE STICKER	COMMENTS
ISM-320-1 rec'd 6-26-09 Vials 1&2 Lot: CE-0161 ULTRA 1 mL Exp: 02/28/2011 Pesticides Surrogate Standard Spiking Solution 2 analyte(s) at 200 µg/mL in acetone 250 Smith St, No Kingstown, RI 02852 USA For Lab Use Only	

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
N/A	8-6-09	7/2010	BNA LCS Mix 1 Custom spike	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
7-29-09	(Y) N			PASS FAIL

SOURCE STICKER	COMMENTS
NOTEBOOK INSERT LABEL 8270 LCS Mix 1 46853-U Lot: LB68376 EXP: JUL/2010 STORAGE: FREEZE 1 x 25ml DATE RECEIVED: 7-29-09 SUPELCO Analytical 595 North Harrison Road • Bellefonte, PA 16823-0048 USA • Phone 814-359-3441	New lot placed into service on 8-6-09

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
—	9-28-09	6/2012	BNA Surr	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
9-8-09	(Y) N	—	—	PASS FAIL

SOURCE STICKER

NOTEBOOK INSERT LABEL

Semi-volatile Acid/Base Surrogate Spike (Low) 86-1143
Lot: LB68015 EXP: JUN/2012 STORAGE: REFRIGERATE 1 x 100ml
DATE RECEIVED: 9-8-09

SUPELCO Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone 814-359-3441

COMMENTS

New lot placed into service on 9-28-09

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
	Y N			PASS FAIL

SOURCE STICKER

COMMENTS

Certificate of Analysis

Rec'd (3) 6-11-09
Rec'd (1) 7-1-09

DESCRIPTION: Semi-volatile Acid/Base Surrogate Spike (Low)

CATALOG NO.: 861143 MFG DATE: May-2009

LOT NO.: LB66441 EXPIRATION DATE: May-2012

SOLVENT: METHANOL:METHYLENE CHLORIDE(90:10)

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4)		STD DEV	SUPELCO LOT NO
NITROBENZENE-D5	4165-60-0	99.9	100.0	102.3	+/-	2.00	LB47918
P-TERPHENYL-D14	1718-51-0	99.7	100.1	96.6	+/-	1.61	LB57645
PHENOL-D6	13127-88-3	99.9	150.0	154.8	+/-	3.46	LB60944
1,2-DICHLOROBENZENE-D4	2199-69-1	99.9	100.1	103.6	+/-	1.94	LB44579
2-CHLOROPHENOL D4	93951-73-6	99.9	150.1	154.7	+/-	3.71	LB35893
2-FLUOROBIPHENYL	321-60-8	98.6	100.1	102.6	+/-	1.41	LB61028
2-FLUOROPHENOL	367-12-4	99.4	150.1	154.6	+/-	3.46	LB53354
2,4,6-TRIBROMOPHENOL	118-79-6	99.9	150.0	150.9	+/-	1.83	LB59603

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

Rec'd. (2)
9-21-09

DESCRIPTION: Semi-volatile Acid/Base Surrogate Spike (Low)

CATALOG NO.: 861143 MFG DATE: Jun-2009

LOT NO.: LB68015 EXPIRATION DATE: Jun-2012

SOLVENT: METHANOL:METHYLENE CHLORIDE(90:10)

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
NITROBENZENE-D5	4165-60-0	99.9	100.0	100.9	+/-	3.68	LB47918
P-TERPHENYL-D14	1718-51-0	99.7	100.0	94.0	+/-	2.66	LB57645
PHENOL-D6	13127-88-3	99.9	150.0	150.0	+/-	4.78	LB60944
1,2-DICHLOROBENZENE-D4	2199-69-1	99.9	100.0	100.0	+/-	3.79	LB44579
2-CHLOROPHENOL D4	93951-73-6	99.9	150.0	149.7	+/-	4.71	LB35893
2-FLUOROBIPHENYL	321-60-8	98.6	100.0	100.7	+/-	3.14	LB61028
2-FLUOROPHENOL	367-12-4	99.4	150.0	150.3	+/-	5.08	LB53354
2,4,6-TRIBROMOPHENOL	118-79-6	99.9	150.0	141.7	+/-	1.04	LB59603

(1) Listed in alphabetical order.

(2) Determined by capillary GC-FID, unless otherwise noted.

(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.

(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.

Elwood Doughty
Quality Control Supervisor

SUPELCO® Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Rec'd (L) 10-14-09

Certificate of Composition

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 554203 **Lot No.:** A070638

Description : Custom Spike Mix

Expiration Date[1]: October 2010 **Storage:** Refrigerate

Handling: Sonicate ampule 15 minutes prior to opening

Elution Order	Compound	CAS#	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	99%	100.000 ug/ml	+/-0.59 %
2	2-Picoline	109-06-8	99%	100.000 ug/ml	+/-0.59 %
3	Ethyl methanesulfonate	62-50-0	99%	100.000 ug/ml	+/-0.59 %
4	Benzaldehyde	100-52-7	99%	100.000 ug/ml	+/-0.59 %
5	Acetophenone	98-86-2	99%	100.000 ug/ml	+/-0.59 %
6	Quinoline	91-22-5	99%	100.000 ug/ml	+/-0.59 %
7	epsilon-Caprolactam	105-60-2	99%	100.000 ug/ml	+/-0.59 %
8	2-Chloroacetophenone	532-27-4	99%	100.000 ug/ml	+/-0.59 %
9	Safrole	94-59-7	99%	100.000 ug/ml	+/-0.59 %
10	Biphenyl	92-52-4	99%	100.000 ug/ml	+/-0.59 %
11	Phorate	298-02-2	98%	99.960 ug/ml	+/-0.59 %
12	Phenacetin	62-44-2	99%	100.000 ug/ml	+/-0.59 %
13	Atrazine	1912-24-9	99%	100.000 ug/ml	+/-0.59 %
14	Pronamide (Propyzamide)	23950-58-5	98%	99.960 ug/ml	+/-0.59 %
15	Chlorobenzilate	510-15-6	98%	99.960 ug/ml	+/-0.59 %
Solvent:	Acetone/Methylene Chloride (95:5)	67-64-1/75-09-2	99%		

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

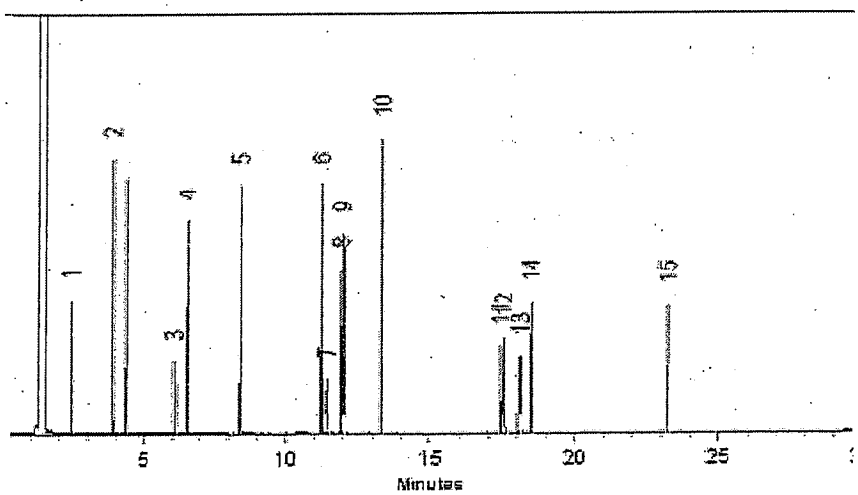
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Certificate of Analysis

DESCRIPTION: 8270 LCS Mix 1

Rec'd (8) 7-29-07

CATALOG NO.: 46853-U
LOT NO.: LB68376

MFG DATE: Jul-2009
EXPIRATION DATE: Jul-2010

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
ACENAPHTHENE	83-32-9	99.9	100.1	100.6	+/-	0.57	LB59548
ACENAPHTHYLENE	208-96-8	99.7	100.1	100.8	+/-	0.20	LB44362
ANILINE	62-53-3	99.9	100.1	116.2	+/-	4.33	LA41596
ANTHRACENE	120-12-7	99.4	100.1	101.6	+/-	0.23	LB37185
AZOBENZENE	103-33-3	99.9	100.0	100.6	+/-	0.28	LB64683
BENZO (A) ANTHRACENE	56-55-3	98.9 (a)	100.1	100.4	+/-	3.11	LB56323
BENZO (A) PYRENE	50-32-8	99.9 (a)	100.0	96.2	+/-	0.77	LB63783
BENZO (B) FLUORANTHENE	205-99-2	99.9	100.0	103.3	+/-	2.01	LB63048
BENZO (G,H,I) PERYLENE	191-24-2	99.6	100.0	103.9	+/-	4.21	LB62550
BENZO (K) FLUORANTHENE	207-08-9	99.5	100.1	99.6	+/-	2.59	LA96760
BENZOIC ACID	65-85-0	99.9	100.1	104.4	+/-	2.65	LB50692
BENZYL ALCOHOL	100-51-6	99.9	100.0	104.0	+/-	1.63	LB48374
BENZYL BUTYL PHTHALATE	85-68-7	98.6	100.0	99.4	+/-	2.89	LB60340
BIS (2-CHLOROETHOXY) METHANE	111-91-1	98.1	100.0	103.2	+/-	1.09	LB46081
BIS (2-CHLOROETHYL) ETHER	111-44-4	99.9	100.0	102.7	+/-	1.40	LB33319
BIS (2-CHLOROISOPROPYL) ETHER	108-60-1	96.4	100.0	98.5	+/-	0.52	LB62479
BIS (2-ETHYLHEXYL) PHTHALATE	117-81-7	99.7	100.0	99.5	+/-	2.60	LB58359
BIS-2-ETHYLHEXYL ADIPATE	103-23-1	99.7	100.1	101.6	+/-	2.65	LB31993
CARBAZOLE	86-74-8	99.9	100.0	100.6	+/-	1.39	LB60643

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Elwood Doughty
Quality Control Supervisor

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 8270 LCS Mix 1

CATALOG NO.: 46853-U
LOT NO.: LB68376

MFG DATE: Jul-2009
EXPIRATION DATE: Jul-2010

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
CHRYSENE	218-01-9	99.9	100.1	97.6	+/-	2.35	LB65398
DI-N-BUTYL PHTHALATE	84-74-2	99.9	100.0	99.7	+/-	1.26	LB36679
DI-N-OCTYL PHTHALATE	117-84-0	99.2	100.0	98.7	+/-	4.72	LB44969
DIBENZ (A,H) ANTHRACENE	53-70-3	99.9	100.0	102.7	+/-	4.03	LB51320
DIBENZOFURAN	132-64-9	99.9	100.0	99.9	+/-	0.07	LB64684
DIETHYL PHTHALATE	84-66-2	99.9	100.0	98.3	+/-	0.46	LB46924
DIMETHYL PHTHALATE	131-11-3	99.9	100.0	98.5	+/-	0.52	LB30494
FLUORANTHENE	206-44-0	99.7	100.1	100.9	+/-	1.51	LB36850
FLUORENE	86-73-7	99.6	100.0	99.7	+/-	0.47	LB04916
HEXACHLOROBENZENE	118-74-1	99.9	100.0	100.4	+/-	0.84	LB60010
HEXACHLOROBUTADIENE	87-68-3	96.7	100.0	103.1	+/-	0.95	LB63273
HEXACHLOROCYCLOPENTADIENE	77-47-4	98.9	100.0	103.8	+/-	0.90	LB43550
HEXACHLOROETHANE	67-72-1	99.9	100.0	102.4	+/-	0.69	LB29072
INDENO (1,2,3-CD) PYRENE	193-39-5	99.9	100.1	103.0	+/-	3.96	LB59565
ISOPHORONE	78-59-1	99.1	100.0	102.0	+/-	1.55	LB45460
N-NITROSODI-N-PROPYLAMINE	621-64-7	99.9	100.0	104.0	+/-	1.23	LB58168
N-NITROSODIMETHYLAMINE	62-75-9	99.9	100.0	101.0	+/-	0.85	LB56172
N-NITROSODIPHENYLAMINE	86-30-6	98.6	100.1	99.6	+/-	0.66	LB17295
NAPHTHALENE	91-20-3	99.4	100.0	103.8	+/-	1.13	LB59563

(1) Listed in alphabetical order.
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a) HPLC UV-254NM
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Elwood Doughty
Quality Control Supervisor

SUPELCO® Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 8270 LCS Mix 1

CATALOG NO.: 46853-U
LOT NO.: LB68376

MFG DATE: Jul-2009
EXPIRATION DATE: Jul-2010

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
NITROBENZENE	98-95-3	99.9	100.0	102.4	+/-	1.31	LB47070
PENTACHLOROPHENOL	87-86-5	99.9	100.0	100.9	+/-	0.71	LB01443
PHENANTHRENE	85-01-8	95.9	100.0	101.1	+/-	0.39	LB44258
PHENOL	108-95-2	99.9	100.0	102.6	+/-	1.24	LB57703
PYRENE	129-00-0	96.6	100.1	100.4	+/-	1.46	LA74472
PYRIDINE (LOW WATER)	110-86-1	99.9	100.1	101.2	+/-	0.39	LB52622
1-METHYLNAPHTHALENE	90-12-0	99.6	100.1	103.6	+/-	1.08	LB65657
1,2-DICHLOROBENZENE	95-50-1	99.9	100.0	101.7	+/-	1.12	LA96474
1,2,-DINITROBENZENE	528-29-0	99.9	100.1	100.0	+/-	0.58	LB48085
1,2,4-TRICHLOROBENZENE	120-82-1	99.5	100.0	102.7	+/-	0.27	LB48083
1,3-DICHLOROBENZENE	541-73-1	99.9	100.0	101.5	+/-	1.35	LA72024
1,3-DINITROBENZENE	99-65-0	99.9 (a)	100.0	100.0	+/-	0.58	LA83740
1,4-DICHLOROBENZENE	106-46-7	99.9	100.0	101.3	+/-	1.08	LB68855
1,4-DINITROBENZENE	100-25-4	99.9	100.1	100.0	+/-	0.94	LB59074
2-CHLORONAPHTHALENE	91-58-7	99.4	100.0	99.3	+/-	0.53	LB48170
2-CHLOROPHENOL	95-57-8	99.2	100.0	103.5	+/-	1.08	LB43799
2-METHYL-4,6-DINITROPHENOL	534-52-1	99.9	100.0	100.5	+/-	0.99	LB31592
2-METHYLNAPHTHALENE	91-57-6	98.3	100.0	106.4	+/-	1.56	LB44448
2-METHYLPHENOL	95-48-7	99.8	100.0	103.6	+/-	2.06	LB30223

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Elwood Doughty
Quality Control Supervisor

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Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 8270 LCS Mix 1

CATALOG NO.: 46853-U
LOT NO.: LB68376

MFG DATE: Jul-2009
EXPIRATION DATE: Jul-2010

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
2-NITROANILINE	88-74-4	99.9	100.0	100.0	+/-	1.15	LB49936
2-NITROPHENOL	88-75-5	99.9	100.0	103.5	+/-	1.42	LB44736
2,3,4,6-TETRACHLOROPHENOL	58-90-2	99.3	100.1	97.7	+/-	0.65	LB44740
2,3,5,6-TETRACHLOROPHENOL	935-95-5	99.9	100.0	99.7	+/-	0.65	LB57701
2,4-DICHLOROPHENOL	120-83-2	99.2	100.0	103.0	+/-	1.52	LB46812
2,4-DIMETHYLPHENOL	105-67-9	99.8	100.0	101.9	+/-	1.32	LB43798
2,4-DINITROPHENOL	51-28-5	98.6	100.0	103.8	+/-	3.85	LB28389
2,4-DINITROTOLUENE	121-14-2	96.0	100.0	98.9	+/-	1.06	LB46632
2,4,5-TRICHLOROPHENOL	95-95-4	99.9	100.0	104.8	+/-	0.35	LB35288
2,4,6-TRICHLOROPHENOL	88-06-2	99.9	100.0	104.1	+/-	1.29	LB65559
2,6-DINITROTOLUENE	606-20-2	99.9	100.0	99.7	+/-	0.34	LB60882
3-METHYLPHENOL (5)	108-39-4	99.9	100.0	*****			LB33593
3-NITROANILINE	99-09-2	99.9	100.0	105.1	+/-	3.21	LB65269
3,3-DICHLOROBENZIDINE	91-94-1	99.9	100.0	95.6	+/-	2.19	LB58050
4-BROMOPHENYLPHENYL ETHER	101-55-3	98.8	100.0	100.5	+/-	0.53	LB63786
4-CHLORO-3-METHYLPHENOL	59-50-7	99.9	100.0	102.8	+/-	0.63	LB36890
4-CHLOROANILINE	106-47-8	99.9	100.0	108.8	+/-	6.99	LB19242
4-CHLOROPHENYLPHENYL ETHER	7005-72-3	99.9	100.0	98.2	+/-	0.18	LB21374
4-METHYLPHENOL (5)	106-44-5	99.9	100.0	*****			LB32518

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Elwood Doughty
Quality Control Supervisor

SUPELCO Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 8270 LCS Mix 1

CATALOG NO.: 46853-U
LOT NO.: LB68376

MFG DATE: Jul-2009
EXPIRATION DATE: Jul-2010

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
4-NITROANILINE	100-01-6	99.9	100.0	99.0	+/-	0.49	LB42566
4-NITROPHENOL	100-02-7	99.9	100.0	99.5	+/-	2.16	LB12692

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
a) HPLC UV-254NM
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Elwood Doughty
Quality Control Supervisor

SUPELCO®
Analytical
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Rec'd. 9-25-09 (1)
Moundsville #2

Certificate of Composition

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 558557 Lot No.: A070237
Description : Custom o-Toluidine Standard
Expiration Date[1]: September 2011 Storage: Refrigerate

Elution Order	Compound	CAS #	Percent Purity 2	Concentration 3 (weight/volume)	% Uncertainty 4 (95% C.L.; K=2)
1	o-Toluidine	95-53-4	99%	100.000 ug/ml	+/-0.72 %
Solvent:	Acetone	67-64-1	99%		

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

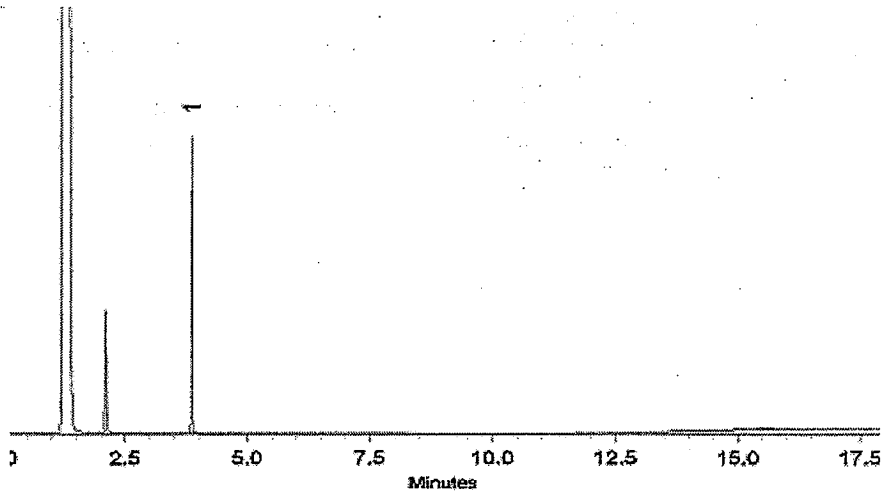
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Sara Eyster QA Analyst Date Passed: 09/23/2009 Balance: 1128342314

Manufactured under Restek's ISO 9001-2000
Registered Quality System
Certificate #FMB0397

1 Expiration date of the unopened ampule stored at recommended temperature.
2A Purity was determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to the nearest whole number. In addition to detectors listed above, chemical identity and purity are confirmed using one or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive index, and Karl Fisher. See data pack or contact Restek for further details.
2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.
2C Compounds with a listed purity of less than 99% may be salts, derivatives, or hydrates. The listed purity is actually a correction factor that was used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound.
2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.
3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels).
4 Uncertainties determined using repeatability and reproducibility data for balances and glassware from measurement systems analysis methodology, balance and glassware tolerances, raw material purity, and, where applicable, eccentricity and linearity values from an accredited calibration laboratory.

REVIEWED
By dconklin at 6:25 am, Sep 24, 2009

Moundsville #1

Certificate of Composition

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 558406 **Lot No.:** A068749

Description : Custom Spike Additions Mix

Expiration Date[1]: July 2012 **Storage:** Refrigerate

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	2-Methylcyclohexanone	583-60-8	98%	99.960 ug/ml	+/-0.72 %
2	3-Methylcyclohexanone	591-24-2	99%	100.000 ug/ml	+/-0.72 %
3	4-Methylcyclohexanone	589-92-4	99%	100.000 ug/ml	+/-0.72 %
Solvent:	Acetone	67-64-1	99%		

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

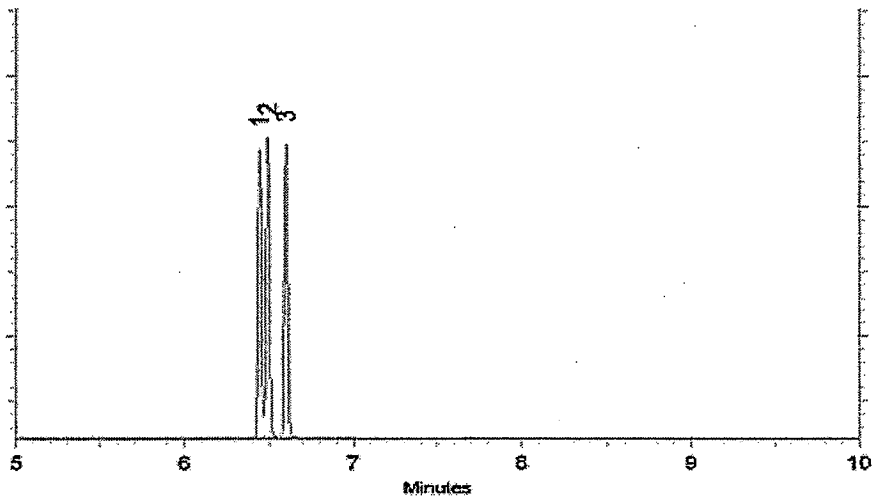
Carrier Gas:
hydrogen @ 40cm/sec.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min.

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



Diane Shaffer - QA Analyst **Date Passed:** 07/13/2009 **Balance:** 1128342313

Manufactured under Restek's ISO 9001-2000 Registered Quality System Certificate #FMB0397

1 Expiration date of the unopened ampule stored at recommended temperature.

2A Purity was determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to the nearest whole number. In addition to detectors listed above, chemical identity and purity are confirmed using one or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive index, and Karl Fisher. See data pack or contact Restek for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C Compounds with a listed purity of less than 99% may be salts, derivatives, or hydrates. The listed purity is actually a correction factor that was used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels).

4 Uncertainties determined using repeatability and reproducibility data for balances and glassware from measurement systems analysis methodology, balance and glassware tolerances, raw material purity, and, where applicable, eccentricity and linearity values from an accredited calibration laboratory.

REVIEWED By dconklin at 6:16 am, 7/14/09

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
—	9-28-09	6/2012	BNA Surr	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
9-8-09	(Y) N	—	—	PASS FAIL

SOURCE STICKER

NOTEBOOK INSERT LABEL

Semi-volatile Acid/Base Surrogate Spike (Low) 86-1143
Lot: LB68015 EXP: JUN/2012 STORAGE: REFRIGERATE 1 x 100ml
DATE RECEIVED: 9-8-09

SUPELCO Analytical
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone 814-359-3441

COMMENTS

New Lot placed into service on 9-28-09

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
4601	10-1-09	~~3-6-10~~ 12-31-09 LAH 12-9-09	NPDES Spike	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
10 ug/mL	20mL	200 mL	1 ug/mL	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
—	Y N	MeOH # G49E42	10-1-09	(PASS) FAIL

SOURCE STICKER

NPDES Spike Stock
4560 Expires ~~3 6 10~~ 12-31-09
LAH 12-9-09

COMMENTS

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
–	11-2-09	7-2012	Moundsville Spike #1	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
–	–	–	–	–

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
7-15-09	(Y) N	–	✓	PASS FAIL

SOURCE STICKER

RESTEK
Cat# 558406
Custom Spike Additions Mix
100 ug/mL each in Acetone
Lot# A068749 Exp. Date: 07/2012
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

Made in USA
2 0 0
Store: Refrigerate

COMMENTS

New Lot Placed into service on 11-2-09.

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
–	11-2-09	9-2011	Moundsville Spike #2	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
–	–	–	–	–

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
9-25-09	(Y) N	–	–	PASS FAIL

SOURCE STICKER

RESTEK
Cat# 558557
Custom o-Toluidine Standard
100 ug/mL each in Acetone
Lot# A070237 Exp. Date: 09/2011
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

Made in USA
2 1 0
Store: Refrigerate

COMMENTS

New Lot placed into service on 11-2-09.

TESTAMERICA NORTH CANTON
EXTRACTIONS STANDARD LOG

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
4610	11-17-09	5-17-10	2,2 Surr	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
200 ug/mL	2 mL	2000mL	.02 ug/mL	1 & 2

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
9-15-09	(Y) N	MeOH #G49E42	11-17-09	(PASS) FAIL

SOURCE STICKER

ISM-320-1 9-15-09 ULTRA
Lot: CE-0161
Exp: 02/28/2011 1 mL
Pesticides Surrogate Standard Spiking Solution
2 analyte(s) at 200 µg/mL in acetone
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

COMMENTS

STANDARD	PREP DATE	EXP. DATE	COMPOUND NAME	ANALYST
—	11-19-09	10-2010	BNA Spike	LAH

CONC. OF SOURCE	WGT. OR VOL.	FINAL VOLUME (mL)	FINAL CONC. (ug/mL)	VIALS USED
—	—	—	—	—

DATE REC'D	CERT. OF ANALYSIS	SOLVENT / LOT NO.	DATE SENT FOR VERIF.	VERIFICATION
10-14-09	(Y) N	—	—	PASS FAIL

SOURCE STICKER

RESTEK Made in USA
Rec'd. 10-14-09
Cat# 554203
Sonicate ampule 15 minutes prior to opening
Custom Spike Mix
100 ug/mL each in Acetone/Methylene Chloride (95:5)
Lot# A070638 Exp. Date: 10/2010 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

COMMENTS

New lot placed into service on 11-19-09,

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3580 Analyst 7H

Date 10/28/09 Reviewed by

Compound (or Mixture) 0.1 ppm TCL

Source (Prep) 2ml of SV3578 +
2ml of SV3554 +
100ul SV3548 (I.S.) +
1896ul $MeCl_2$ (Lot#35J11)

Final Volume 2ml

Concentration 0.1 ppm

Solvent $MeCl_2$

Expiration Date 10/28/10

Comments

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3581 Analyst ZH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 0.5 ppm TCL

Source (Prep) 10ul of SV3578 +
10ul of SV3554 +
100ul of SV3548 (I.S.) +
1880ul MeCl2 (Lot H35J11)

Final Volume 2ml

Concentration 0.5 ppm

Solvent MeCl2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV 3582 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 1 ppm TCL

Source (Prep) 20 ul of SV3578 +
20 ul of SV3554 +
100 ul of SV3548 (IS) +
1860 ul MeCl2 (Lot H35J11)

Final Volume 2 ml

Concentration 1 ppm

Solvent MeCl2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3583 Analyst TH

Date 10/28/08 Reviewed by _____

Compound (or Mixture) 2 ppm TCL

Source (Prep) 40 µl SV 3578 +
40 µl SV 3554 +
100 µl SV 3548 (I.S.) +
1820 µl $MeCl_2$ (lot: H35J11)

Final Volume 2 ml

Concentration 2 ppm

Solvent $MeCl_2$

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3584 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 5 ppm TCL

Source (Prep) 100 ul of SV3578 +
100 ul of SV3554 +
100 ul of SV3548 (I.S.) +
1700 ul MeCl2 (Lot H35J11)

Final Volume 2ml

Concentration 5 ppm

Solvent MeCl2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV 3585 Analyst JH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 10 ppm TCL

Source (Prep) 200 ul SV 3578 +
200 ul SV 3554 +
100 ul SV 3548 (1.5.) +
1500 ul CH_2Cl_2 (Lot: H35J11)

Final Volume 2ml

Concentration 10 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3586 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 15 ppm TCL

Source (Prep) 300ul SV3578 +
300ul SV3554 +
100ul SV3548 (I.S.) +
1300ul CH_2Cl_2 (Lot H35J11)

Final Volume 2ml

Concentration 15 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3587 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 20 ppm TCL

Source (Prep) 400 ul SV 3578 +
400 ul SV 3554 +
100 ul SV 3548 (I.S.) +
1100 ul CH_2Cl_2 (lot: H35J11)

Final Volume 2ml

Concentration 20 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3588 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 25 ppm TCL

Source (Prep) 500ul of SV3578 +
500ul of SV3554 +
100ul of SV3548 (7.5) +
900ul CH_2Cl_2 (Lot H35J11)

Final Volume 2 ml

Concentration 25 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3589 Analyst ZH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 10 ppm TCL (second source)

Source (Prep) 200 µl SV3579 +
200 µl SV3554 +
100 µl SV3548 (I.S.) +
1500 µl CH_2Cl_2 (lot: H35J11)

Final Volume 2ml

Concentration 10 ppm

Solvent CH_2Cl_2

Expiration Date 10/28/10

Comments _____

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SX3578 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 100 ppm STOCK TCL STD

Source (Prep) MIX 1 LOT A070830 (400 ppm) +
MIX 2 LOT A064398 (400 ppm) +
MIX 3 LOT A064140 (400 ppm) +
MIX 4 LOT ~~A063874~~ 59704 (400 ppm)
(1:1:1:1)
TH

Final Volume _____

Concentration 100 ppm

Solvent MeCl2

Expiration Date 11/10

Comments _____

RESTEK Made in USA
Cat# 555252
Custom Revised 8270 Mix #1 / 2 pack
400 ug/mL each in Methylene Chloride
Lot# A070830 Exp. Date: 10/2014 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57833
Custom Revised 8270 Mix # 2
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A064398 Exp. Date: 11/2010 Store: Freezer
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57834
Custom Revised 8270 Mix # 3
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A064140 Exp. Date: 11/2011 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57835
Custom Revised 8270 Mix #4
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A059704 Exp: 04/2011 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3579 Analyst TH

Date 10/28/09 Reviewed by _____

Compound (or Mixture) 100 ppm STOCK TCL STD

Source (Prep) MIX 1 LOT A070849 (400 ppm) +
MIX 2 LOT A064613 (400 ppm) +
MIX 3 LOT A064141 (400 ppm) +
MIX 4 LOT ~~A063882~~ 59711 (400 ppm)
(1:1:1:1) TH

Final Volume _____

Concentration 100 ppm

Solvent MeCl2

Expiration Date 12/10

Comments _____

RESTEK Made in USA
Cat# 555252
Custom Revised 8270 Mix #1 / 2 pack
400 ug/mL each in Methylene Chloride
Lot# A070849 Exp. Date: 10/2014 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57833
Custom Revised 8270 Mix # 2
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A064613 Exp. Date: 12/2010 Store: Freezer
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57834
Custom Revised 8270 Mix # 3
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A064141 Exp. Date: 11/2011 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RESTEK
Cat# 57835
Custom Revised 8270 Mix #4
400 ug/mL each in Methylene Chloride (MEOH FREE)
Lot# A059711 Exp: 04/2011 Store: Refrigerate
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3548 Analyst ZH

Date 9/11/09 Reviewed by MV 9/12/09

Compound (or Mixture) 80 ppm Internal Stds Mix

Source (Prep) 1 ml of ULTRA Lot: CE-3317 (4,000 ug/ml) + 49 ml MeCl2 (Lot H25J02)

Final Volume 50 ml

Concentration 80 ppm

Solvent MeCl2

Expiration Date 3/11/10

Comments

US-108N
Lot: CE-3317
Exp: 10/31/2011
ULTRA
1 mL
Semi-Volatiles Internal Standard Mixture
6 analyte(s) at 4000 µg/mL in dichloromethane
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

TESTAMERICA NORTH CANTON

MSS STANDARDS LOG

Std. No. SV3554 Analyst ZH

Date 9/14/09 Reviewed by MU 9/19/09

Compound (or Mixture) 100 ppm Supplemental Std

Source (Prep) 200ul of Lot B7040078 (5,000 ppm 2,4-Dinitrophenol) + 500ul of Lot B6030010 (2,000 ppm Benzoic Acid) + 500ul of Lot B3010100 (2,000 ppm Pentachlorophenol) + 8.8 ml CH_2Cl_2 (Lot H25J02)

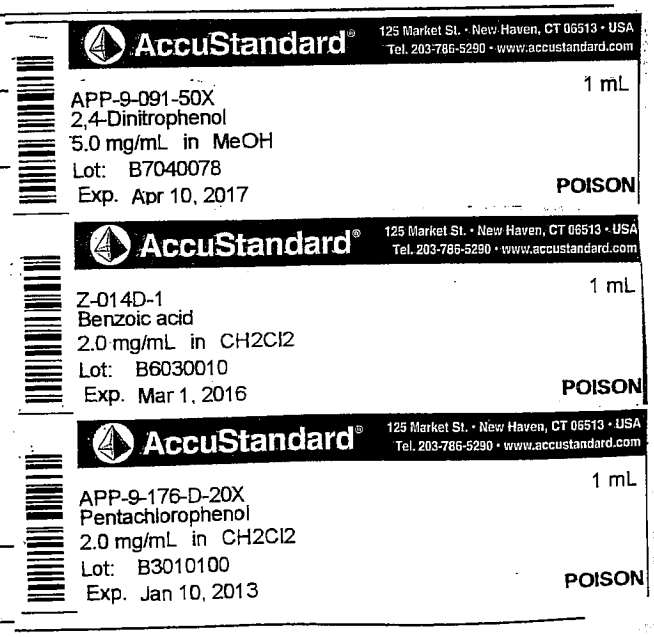
Final Volume 10ml

Concentration 100 ppm

Solvent CH_2Cl_2

Expiration Date 3/14/09 10

Comments ZH 9/14/09



North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/8/2010
Time: 13:10:44

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
			_	_	computer batch: correct & Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 402608 Eric Mills

Concentrationist: 402608 Eric Mills
000123 Leslie Howell

Reviewer/Date: EARLES / 2/24/10

QC BATCH: 0054027

PREP DATE: 2/23/10
COMP DATE: 2/24/10

Base/Neutrals and Acids (8270C)
SOXHLET (NONE,Na2SO4)
SW846 3540C

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/02/10	3/10/10	A0B180429-001 **LVTQQ-1-A7 S**	D	11	QL	SOLID	30.08g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML #A070638/72456 .2ML BNA SURR #69831
COMMENTS:															
3/02/10	3/10/10	A0B180429-001 **LVTQQ-1-A8 D**	D	11	QL	SOLID	30.18g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML #A070638/72456 .2ML BNA SURR #69831
COMMENTS:															
3/02/10	3/10/10	A0B180429-004 **LVTQ3-1-A7**	D	11	QL	SOLID	30.03g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/04/10	3/12/10	A0B190524-010 **LVWX1-1-AD**	D	11	QL	SOLID	30.14g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/04/10	3/12/10	A0B190524-002 **LVWW9-1-AD**	D	11	QL	SOLID	30.1g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															

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North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0054027

PREP DATE: 2/23/10
COMP DATE: 2/24/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/04/10	3/12/10	A0B190524-003 **LVWXC-1-AP**	D	11	QL	SOLID	30.02g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/04/10	3/12/10 WET	A0B190524-013 **LVWX8-1-AD**	D	11	QL	SOLID	30.06g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/04/10	3/12/10	A0B190524-004 **LVWXF-1-AF**	D	11	QL	SOLID	30.05g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/03/10	3/11/10 WET	A0B180524-004 **LVVF1-1-AP**	D	11	QL	SOLID	30.08g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/03/10	3/11/10 WET	A0B180524-001 **LVVFK-1-AD**	D	11	QL	SOLID	30.16g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/04/10	3/12/10 WET	A0B190524-001 **LVWW5-1-AE D**	D	11	QL	SOLID	30.01g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML #A070638/72456 .2ML BNA SURR #69831
COMMENTS:															
3/04/10	3/12/10 WET	A0B190524-001 **LVWW5-1-AC**	D	11	QL	SOLID	30.07g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/02/10	0/0/0	A0B230000-027 **LV0FP-1-AA B**		11	QL	SOLID	30.00g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/02/10	0/0/0	A0B230000-027 **LV0FP-1-AC C**		11	QL	SOLID	30.00g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML #A070638/72456 .2ML BNA SURR #69831
COMMENTS:															

825

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0054027

PREP DATE: 2/23/10
COMP DATE: 2/24/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/03/10	3/11/10 WET	A0B180524-005 **LVVF6-1-AP**	D	11	QL	SOLID	30.18g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/02/10	3/10/10	A0B180429-002 **LVTQ1-1-AG**	D	11	QL	SOLID	30.02g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/02/10	3/10/10	A0B180429-003 **LVTQ2-1-AG**	D	11	QL	SOLID	30.2g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/04/10	3/12/10 WET	A0B190524-001 **LVWW5-1-AD S**	D	11	QL	SOLID	30.08g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML #A070638/72456 .2ML BNA SURR #69831
COMMENTS:															
3/03/10	3/10/10	A0B180429-012 **LVTT0-1-AC**	D	11	QL	SOLID	30.14g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/02/10	3/10/10	A0B180429-001 **LVTQQ-1-A5**	D	11	QL	SOLID	30.14g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															

S/S EM,JS
DCM/ACE H44E16 NA2SO4 H35594
B025

NUMBER OF WORK ORDERS IN BATCH: 20

826

Lot/SDG Number: **A0B180429**

Sample Control Chain of Custody - TAL North Canton
GC/MS Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0B180429-001	LVTQQ1A5	Base/Neutrals and Acids (8270C)	02/23/10	Eric Mills	02/24/10	Steve Earle	03/02/10	John Gruber
A0B180429-002	LVTQ11AG	Base/Neutrals and Acids (8270C)	02/23/10	Eric Mills	02/24/10	Steve Earle	03/02/10	John Gruber
A0B180429-003	LVTQ21AG	Base/Neutrals and Acids (8270C)	02/23/10	Eric Mills	02/24/10	Steve Earle	03/02/10	John Gruber
A0B180429-004	LVTQ31A7	Base/Neutrals and Acids (8270C)	02/23/10	Eric Mills	02/24/10	Steve Earle	03/02/10	John Gruber
A0B180429-012	LVTT01AC	Base/Neutrals and Acids (8270C)	02/23/10	Eric Mills	02/24/10	Steve Earle	03/02/10	John Gruber

TestAmerica
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PESTICIDE DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8081A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B180429

Extraction: XXA11QJWA

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	B12SS-038M-5040-SO	93	101	00
02	ATASS-015M-5036-SO	85	98	00
03	METHOD BLK. LV0FH1AA	80	96	00
04	LCS LV0FH1AC	90	102	00
05	B12SS-038M-5040-SO D	115	94	00
06	B12SS-038M-5040-SO S	122	106	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(70-125)
SRG02	= Decachlorobiphenyl	(55-130)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B230000 WO #: LV0FH1AC
BATCH: 0054022

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	33	32	95	60- 125	
Heptachlor	33	29	86	50- 140	
Aldrin	33	30	92	45- 140	
Dieldrin	33	32	95	65- 125	
Endrin	33	33	100	60- 135	
4,4'-DDT	33	28	83	45- 140	
alpha-BHC	33	32	95	60- 125	
beta-BHC	33	32	95	60- 125	
delta-BHC	33	34	101	55- 130	
Heptachlor epoxide	33	32	96	65- 130	
Endosulfan I	33	27	80	15- 135	
4,4'-DDE	33	32	97	70- 125	
Endosulfan II	33	30	90	35- 140	
4,4'-DDD	33	39	117	30- 135	
Endosulfan sulfate	33	35	104	60- 135	
Methoxychlor	33	33	100	55- 145	
Endrin ketone	33	33	99	65- 135	
Endrin aldehyde	33	28	85	35- 145	
alpha-Chlordane	33	30	92	65- 120	
gamma-Chlordane	33	31	93	65- 125	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: B12SS-038M-5040-SO

Lot #: A0B180429 WO #: LVTQ31CD
BATCH: 0054022

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
gamma-BHC (Lindane)	34	ND	31	92	60- 125	
Heptachlor	34	ND	28	81	50- 140	
Aldrin	34	ND	30	88	45- 140	
Dieldrin	34	ND	30	90	65- 125	
Endrin	34	ND	32	95	60- 135	
4,4'-DDT	34	ND	33	98	45- 140	
alpha-BHC	34	ND	31	92	60- 125	
beta-BHC	34	ND	34	99	60- 125	
delta-BHC	34	ND	32	95	55- 130	
Heptachlor epoxide	34	ND	30	89	65- 130	
Endosulfan I	34	ND	26	77	15- 135	
4,4'-DDE	34	ND	35	105	70- 125	
Endosulfan II	34	ND	29	85	35- 140	
4,4'-DDD	34	ND	36	106	30- 135	
Endosulfan sulfate	34	ND	35	104	60- 135	
Methoxychlor	34	ND	37	108	55- 145	
Endrin ketone	34	ND	34	102	65- 135	
Endrin aldehyde	34	ND	28	81	35- 145	
alpha-Chlordane	34	ND	29	85	65- 120	
gamma-Chlordane	34	ND	29	86	65- 125	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: B12SS-038M-5040-SO

Lot #: A0B180429 WO #: LVTQ31CE
BATCH: 0054022

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	34	29	86	7.4		36	60- 125	
Heptachlor	34	26	78	4.4		44	50- 140	
Aldrin	34	28	82	6.3		40	45- 140	
Dieldrin	34	29	86	4.4		33	65- 125	
Endrin	34	30	88	8.1		38	60- 135	
4,4'-DDT	34	30	88	11		42	45- 140	
alpha-BHC	34	29	87	5.5		40	60- 125	
beta-BHC	34	32	96	3.5		43	60- 125	
delta-BHC	34	30	90	5.6		34	55- 130	
Heptachlor epoxide	34	28	83	6.6		43	65- 130	
Endosulfan I	34	25	73	5.3		41	15- 135	
4,4'-DDE	34	34	99	5.7		39	70- 125	
Endosulfan II	34	27	79	7.7		27	35- 140	
4,4'-DDD	34	34	101	5.6		35	30- 135	
Endosulfan sulfate	34	32	95	8.3		34	60- 135	
Methoxychlor	34	35	102	4.9		41	55- 145	
Endrin ketone	34	32	94	7.9		32	65- 135	
Endrin aldehyde	34	26	75	7.6		29	35- 145	
alpha-Chlordane	34	27	81	4.9		65	65- 120	
gamma-Chlordane	34	27	80	6.5		36	65- 125	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV0FH1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: 022F2201.

Lot Number: A0B180429

Matrix: SOLID

Extraction Method: 3540C

Date Extracted: 02/23/10

Date Analyzed(1): 03/08/10

Date Analyzed(2): N/A

Time Analyzed(1): 19:36

Time Analyzed(2): N/A

Instrument ID(1): P3

Instrument ID(2): N/A

GC Column(1): N/A ID: N/A GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	B12SS-038M-5040-SO	LVTQ31A8	03/08/10	N/A
02	B12SS-038M-5040-SO	LVTQ31CD S	03/08/10	N/A
03	B12SS-038M-5040-SO	LVTQ31CE D	03/08/10	N/A
04	ATASS-015M-5036-SO	LVTT01AD	03/08/10	N/A
05	CHECK SAMPLE	LV0FH1AC C	03/08/10	N/A
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

GC Semivolatiles

Lot-Sample #...: A0B180429-004 **Work Order #...:** LVTQ31A8 **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0054022
Dilution Factor: 2 **Initial Wgt/Vol:** 30.06 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 1.9 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	8.2	ug/kg	2.4
alpha-BHC	ND	5.1	ug/kg	1.5
beta-BHC	ND	7.1	ug/kg	2.2
delta-BHC	ND	8.2	ug/kg	2.4
gamma-BHC (Lindane)	ND	5.1	ug/kg	1.5
alpha-Chlordane	ND	6.1	ug/kg	1.9
gamma-Chlordane	ND	3.5	ug/kg	0.86
4,4'-DDD	ND	4.1	ug/kg	1.3
4,4'-DDE	ND	3.5	ug/kg	0.79
4,4'-DDT	ND	4.1	ug/kg	1.3
Dieldrin	ND	3.5	ug/kg	0.96
Endosulfan I	ND	3.5	ug/kg	1.1
Endosulfan II	ND	5.1	ug/kg	1.7
Endosulfan sulfate	ND	6.1	ug/kg	1.8
Endrin	ND	3.5	ug/kg	1.0
Endrin aldehyde	ND	6.1	ug/kg	2.0
Endrin ketone	ND	4.1	ug/kg	1.3
Heptachlor	ND	7.1	ug/kg	2.2
Heptachlor epoxide	ND	5.1	ug/kg	1.6
Methoxychlor	ND	10	ug/kg	3.1
Toxaphene	ND	140	ug/kg	39

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	93	(70 - 125)
Decachlorobiphenyl	101	(55 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Elevated reporting limits. The reporting limits are elevated due to matrix interference.

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\026F2601.D
Lab Smp Id: LVTQ31A8 Client Smp ID: B12SS-038M-5040-SO
Inj Date : 08-MAR-2010 21:14
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LVTQ31A8,2
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 09:35 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43 Cal File: 015F1501.D
Als bottle: 26
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.060	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.843	4.834	0.009	2941703	0.00765	0.1530		(M)
25 Mirex						CAS #: 2385-85-5	

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene						CAS #: 118-74-1	
5.598	5.569	0.029	116461				
2 Diallate						CAS #: 2303-16-4	
5.677	5.697	-0.020	71395			0.00- 20.00	100.00
5.948	5.935	0.013	396198			0.00- 20.00	554.94
11 Isodrin						CAS #: 465-73-6	

Peaks not detected for Quant. or Qual. signal(s).

```
--------------------------------------------------------------------------------
   21 Kepone                                      CAS #: 143-50-0
10.483  10.467    0.016           23970
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
18 Chlorobenzilate						CAS #: 510-15-6	
10.819	10.797	0.022	250902				
4 alpha-BHC						CAS #: 319-84-6	
5.804	5.788	0.016	36298	6e-005	0.03809		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.269	6.293	-0.024	2310263	0.00407	2.710		
6 beta-BHC						CAS #: 319-85-7	
6.487	6.465	0.022	695510	0.00314	2.088		
7 delta-BHC						CAS #: 319-86-8	
6.719	6.704	0.015	1317998	0.00125	0.8296		
9 Heptachlor						CAS #: 76-44-8	

Peaks not detected for Quant. or Qual. signal(s).

10 Aldrin						CAS #: 309-00-2	

Peaks not detected for Quant. or Qual. signal(s).

12 Heptachlor epoxide						CAS #: 1024-57-3	

Peaks not detected for Quant. or Qual. signal(s).

13 gamma-Chlordane						CAS #: 5103-74-2	

Peaks not detected for Quant. or Qual. signal(s).

14 alpha-Chlordane						CAS #: 5103-71-9	

Peaks not detected for Quant. or Qual. signal(s).

16 4,4'-DDE						CAS #: 72-55-9	
9.699	9.697	0.002	1162565	0.00129	0.8613		
15 Endosulfan I						CAS #: 959-98-8	
9.629	9.609	0.020	76919	9e-005	0.06222		
17 Dieldrin						CAS #: 60-57-1	
10.021	10.047	-0.026	932223	0.00266	1.767		
20 Endrin						CAS #: 72-20-8	
10.405	10.398	0.007	513507	7e-004	0.4427		

```
--------------------------------------------------------------------------------
   22 4,4'-DDD                                    CAS #: 72-54-8
10.689  10.664    0.025          163193  3e-004   0.1768
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

23 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

19 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

11.072	11.058	0.014	148151	2e-004	0.1606		

---

26 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

11.739	11.767	-0.028	1028553	0.00400	2.660		

---

28 Endosulfan sulfate CAS #: 1031-07-8

11.874	11.898	-0.024	290669	0.00103	0.6853		

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

13.424	13.420	0.004	2410295	0.01011	0.2022		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\026F2601.D

Page 1

Date : 08-MAR-2010 21:14

Client ID: B12SS-038M-5040-SO

Instrument: a2hp3.i

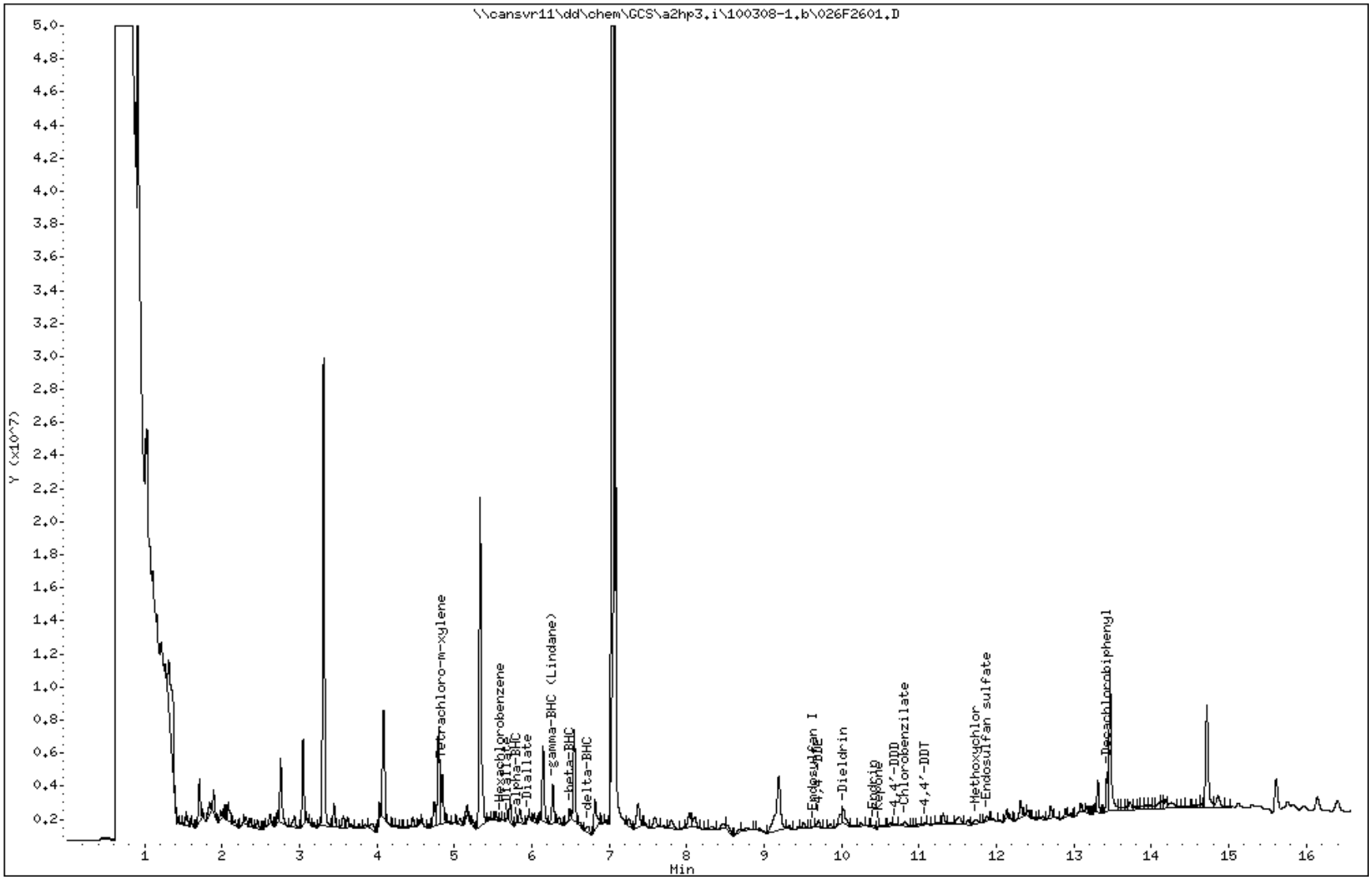
Sample Info: LVTQ31A8,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

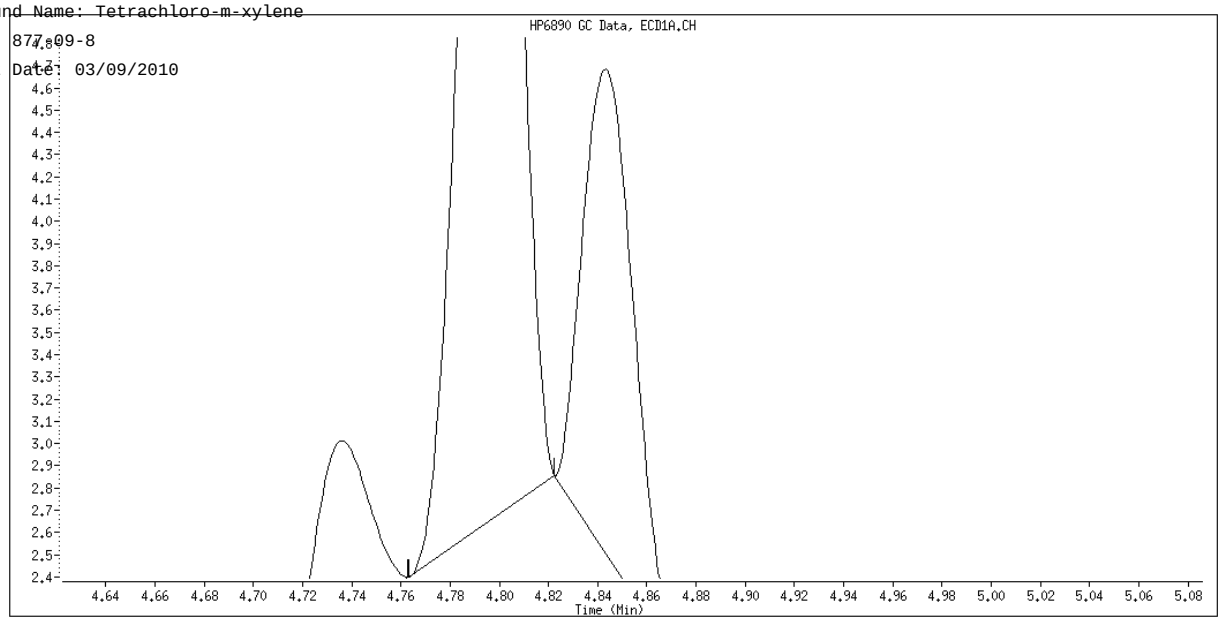


COMPOUNDS and EXP. RT REPORT

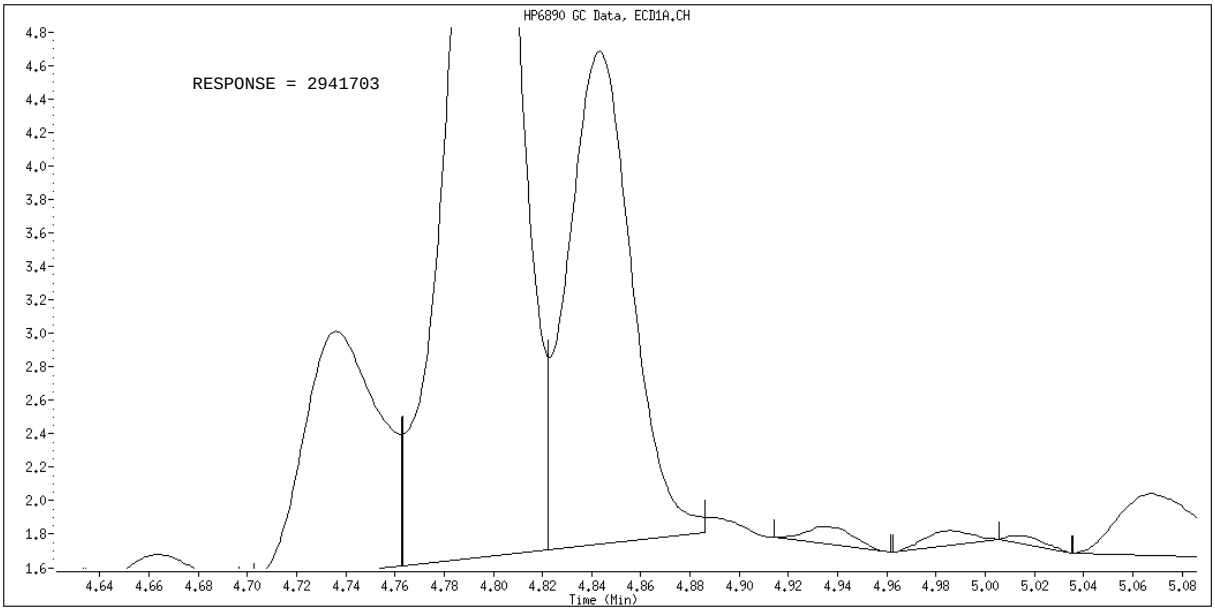
Operator: 093905 Date Acquired: 08-MAR-2010 21:14
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/026F2601.D
Lab Sample ID: LVTQ31A8
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 2

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.843	5332887	0.008	0.153 ug/Kg
3)	Hexachlorobenzene	5.598	116461	0.000	0.000 ug/Kg
2)	Diallate	5.677	71395	0.000	0.000 ug/Kg
4)	alpha-BHC	5.805	65030	0.000	0.038 ug/Kg
5)	gamma-BHC (Lindane)	6.270	4324641	0.004	2.710 ug/Kg
6)	beta-BHC	6.487	1060108	0.003	2.088 ug/Kg
7)	delta-BHC	6.720	1317998	0.001	0.830 ug/Kg
8)	Tech Chlordane	NOT DETECTED	Expected RT = 6.899		
9)	Heptachlor	NOT DETECTED	Expected RT = 7.016		
10)	Aldrin	NOT DETECTED	Expected RT = 7.506		
11)	Isodrin	NOT DETECTED	Expected RT = 8.140		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 8.837		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 9.115		
14)	alpha-Chlordane	NOT DETECTED	Expected RT = 9.397		
15)	Endosulfan I	9.630	76919	0.000	0.062 ug/Kg
16)	4,4'-DDE	9.700	1162565	0.001	0.861 ug/Kg
17)	Dieldrin	10.022	3030268	0.003	1.767 ug/Kg
20)	Endrin	10.406	513507	0.001	0.443 ug/Kg
21)	Kepone	10.483	49640	0.000	0.000 ug/Kg
22)	4,4'-DDD	10.689	163193	0.000	0.177 ug/Kg
23)	Endosulfan II	NOT DETECTED	Expected RT = 10.740		
18)	Chlorobenzilate	10.819	764059	0.000	0.000 ug/Kg
19)	Toxaphene	NOT DETECTED	Expected RT = 10.850		
24)	4,4'-DDT	11.072	148151	0.000	0.161 ug/Kg
26)	Endrin aldehyde	NOT DETECTED	Expected RT = 11.345		
25)	Mirex	NOT DETECTED	Expected RT = 11.684		
27)	Methoxychlor	11.739	1028553	0.004	2.660 ug/Kg
28)	Endosulfan sulfate	11.874	699689	0.001	0.685 ug/Kg
29)	Endrin ketone	NOT DETECTED	Expected RT = 12.210		
30)	Decachlorobiphenyl	13.425	3960724	0.010	0.202 ug/Kg

Data File Name: 026F2601.D
Inj. Date and Time: 08-MAR-2010 21:14
Instrument ID: a2hp3.i
Client ID: B12SS-038M-5040-SO
Compound Name: Tetrachloro-m-xylene
CAS #: 877-09-8
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\026F2601.D
Lab Smp Id: LVTQ31A8 Client Smp ID: B12SS-038M-5040-SO
Inj Date : 08-MAR-2010 21:14
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LVTQ31A8,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 09:37 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 26
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.060	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.695	5.692	0.003	917634	0.00927	0.1855		
27 Mirex						CAS #: 2385-85-5	

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene						CAS #: 118-74-1	

Peaks not detected for Quant. or Qual. signal(s).

2 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

```
   11 Isodrin                                      CAS #: 465-73-6
9.828    9.847   -0.019           30112
--------------------------------------------------------------------------------
   21 Kepone                                       CAS #: 143-50-0
11.749  11.749    0.000           18135
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
18 Chlorobenzilate					CAS #: 510-15-6		
11.695	11.700	-0.005	22822				
4 alpha-BHC					CAS #: 319-84-6		

Peaks not detected for Quant. or Qual. signal(s).

16 4,4'-DDE					CAS #: 72-55-9		
11.083	11.092	-0.009	106659	0.00109	0.7270		(M)
15 Endosulfan I					CAS #: 959-98-8		
10.840	10.814	0.026	67554	6e-004	0.4263		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
7.430	7.403	0.027	34976	5e-004	0.3444		
6 beta-BHC					CAS #: 319-85-7		
7.642	7.617	0.025	222317	0.00890	5.919		
7 delta-BHC					CAS #: 319-86-8		

Peaks not detected for Quant. or Qual. signal(s).

8 Heptachlor					CAS #: 76-44-8		
8.279	8.307	-0.028	157899	0.00112	0.7476		
10 Aldrin					CAS #: 309-00-2		

Peaks not detected for Quant. or Qual. signal(s).

12 Heptachlor epoxide					CAS #: 1024-57-3		

Peaks not detected for Quant. or Qual. signal(s).

13 gamma-Chlordane					CAS #: 5103-74-2		
10.551	10.531	0.020	23213	4e-004	0.2890		
14 alpha-Chlordane					CAS #: 5103-71-9		
10.776	10.763	0.013	6610	1e-004	0.08201		
17 Dieldrin					CAS #: 60-57-1		

Peaks not detected for Quant. or Qual. signal(s).

20 Endrin					CAS #: 72-20-8		
11.589	11.611	-0.022	28593	6e-004	0.3663		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

22 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

23 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

19 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

7.965	7.987	-0.022	19216	0.01325	8.818	0.00- 20.00	100.00
9.494	9.475	0.019	50433	0.02902	19.31	0.00- 20.00	262.45
10.551	10.534	0.017	23213	0.00448	2.984	0.00- 20.00	120.80
10.776	10.767	0.009	6610	0.00148	0.9816	0.00- 20.00	34.40

Average of Peak Concentrations = 8.024

---

24 4,4'-DDT CAS #: 50-29-3

12.224	12.231	-0.007	132777	0.00185	1.234		

---

25 Endrin aldehyde CAS #: 7421-93-4

12.299	12.324	-0.025	23173	6e-004	0.4181		

---

26 Endosulfan sulfate CAS #: 1031-07-8

12.654	12.651	0.003	50231	0.00117	0.7770		

---

28 Methoxychlor CAS #: 72-43-5

13.055	13.037	0.018	74160	0.00395	2.630		

---

29 Endrin ketone CAS #: 53494-70-5

13.219	13.227	-0.008	57073	0.00112	0.7481		

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

14.690	14.687	0.003	271189	0.01006	0.2012		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\026F2601.D

Page 1

Date : 08-MAR-2010 21:14

Client ID: B12SS-038M-5040-SO

Instrument: a2hp3.i

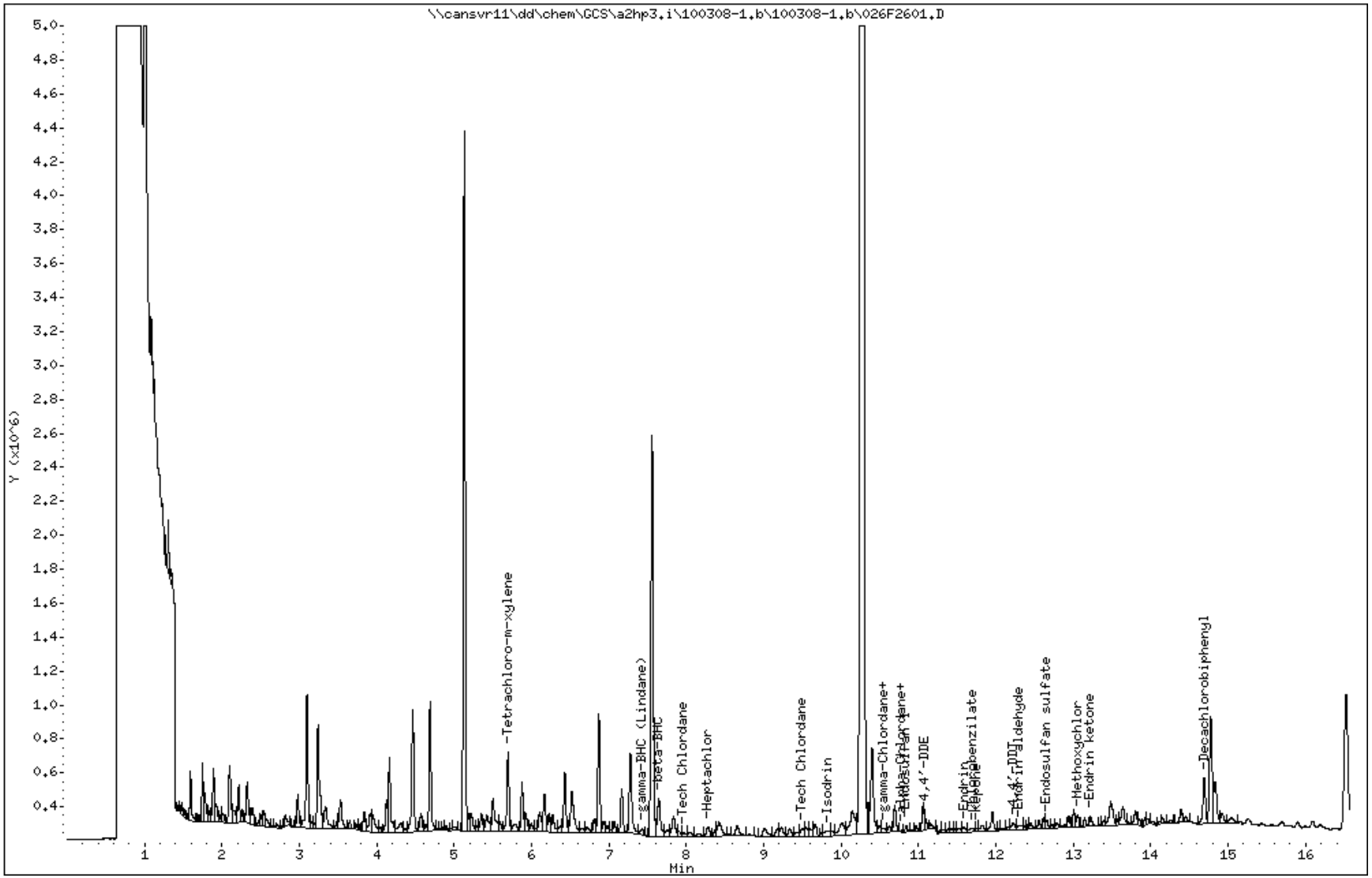
Sample Info: LVTQ31A8,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

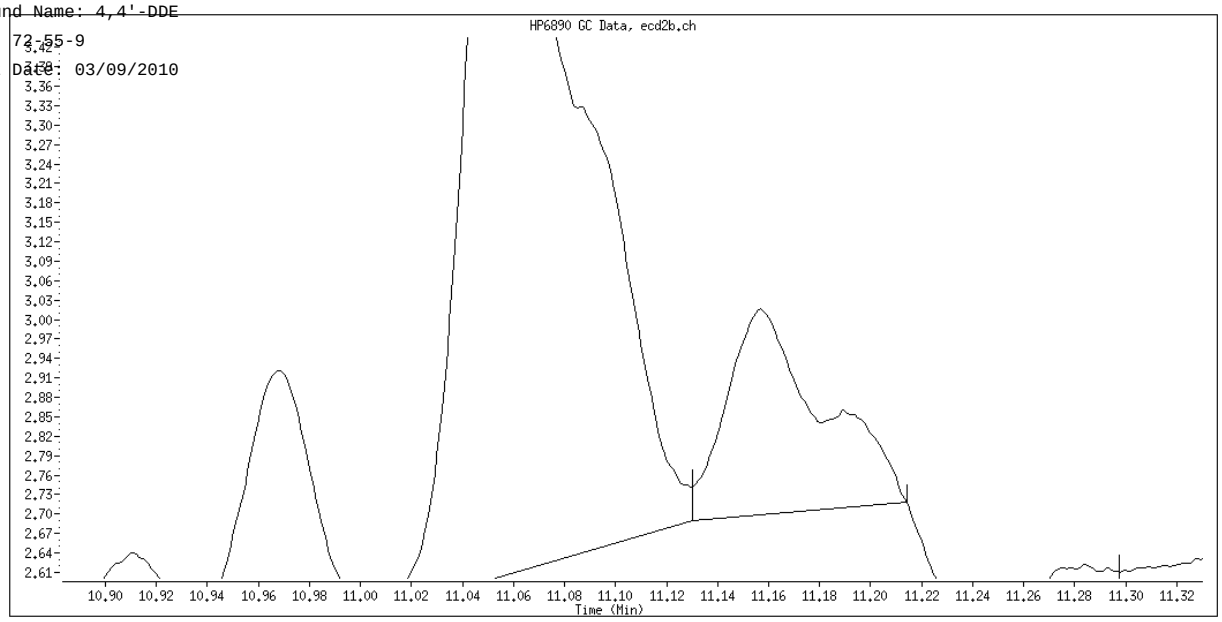


COMPOUNDS and EXP. RT REPORT

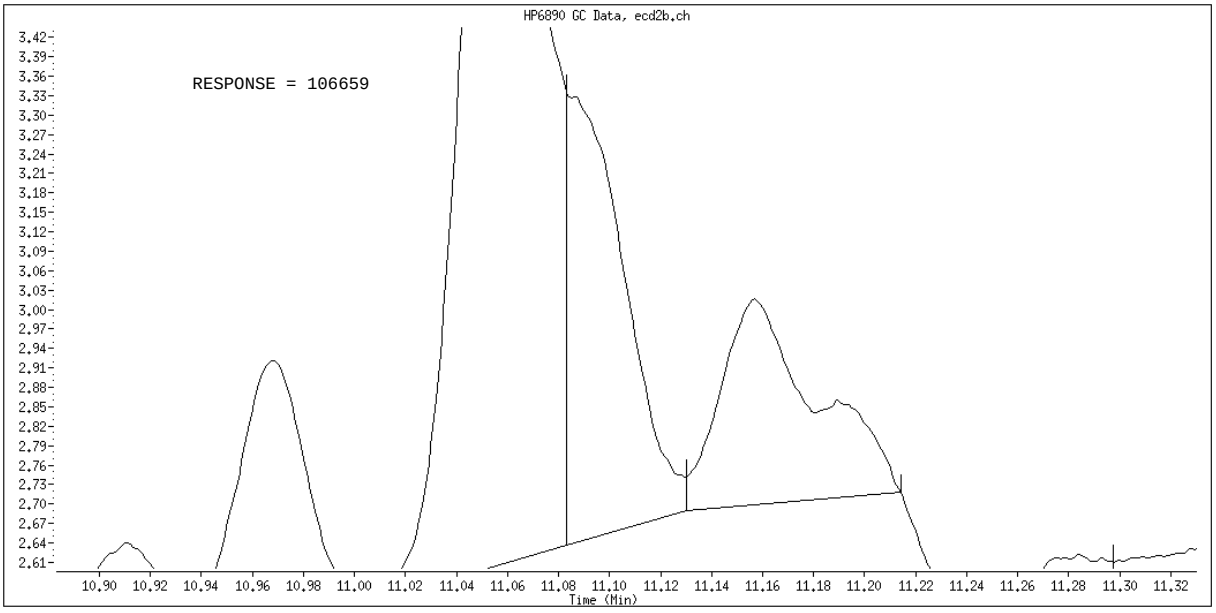
Operator: 093905 Date Acquired: 08-MAR-2010 21:14
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/026F2601.D
Lab Sample ID: LVTQ31A8
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.696	917634	0.009	0.185 ug/Kg
3) Hexachlorobenzene	NOT DETECTED	Expected RT = 6.552		
2) Diallate	NOT DETECTED	Expected RT = 6.558		
4) alpha-BHC	NOT DETECTED	Expected RT = 6.770		
5) gamma-BHC (Lindane)	7.431	98893	0.001	0.344 ug/Kg
6) beta-BHC	7.642	650996	0.009	5.919 ug/Kg
9) Tech Chlordane	7.966	62797	0.013	8.818 ug/Kg
7) delta-BHC	NOT DETECTED	Expected RT = 8.231		
8) Heptachlor	8.279	157899	0.001	0.748 ug/Kg
10) Aldrin	NOT DETECTED	Expected RT = 9.058		
11) Isodrin	9.828	165853	0.000	0.000 ug/Kg
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 10.217		
13) gamma-Chlordane	10.552	71341	0.000	0.289 ug/Kg
14) alpha-Chlordane	10.777	10149	0.000	0.082 ug/Kg
15) Endosulfan I	10.841	67554	0.001	0.426 ug/Kg
16) 4,4'-DDE	11.083	106659	0.001	0.727 ug/Kg
17) Dieldrin	NOT DETECTED	Expected RT = 11.215		
20) Endrin	11.590	80632	0.001	0.366 ug/Kg
18) Chlorobenzilate	11.696	89936	0.000	0.000 ug/Kg
21) Kepone	11.749	38754	0.000	0.000 ug/Kg
22) 4,4'-DDD	NOT DETECTED	Expected RT = 11.856		
23) Endosulfan II	NOT DETECTED	Expected RT = 11.896		
19) Toxaphene	NOT DETECTED	Expected RT = 12.014		
24) 4,4'-DDT	12.224	132777	0.002	1.234 ug/Kg
25) Endrin aldehyde	12.300	101762	0.001	0.418 ug/Kg
26) Endosulfan sulfate	12.655	92151	0.001	0.777 ug/Kg
28) Methoxychlor	13.056	147176	0.004	2.630 ug/Kg
27) Mirex	NOT DETECTED	Expected RT = 13.203		
29) Endrin ketone	13.219	129194	0.001	0.748 ug/Kg
30) Decachlorobiphenyl	14.691	625011	0.010	0.201 ug/Kg

Data File Name: 026F2601.D
Inj. Date and Time: 08-MAR-2010 21:14
Instrument ID: a2hp3.i
Client ID: B12SS-038M-5040-SO
Compound Name: 4,4'-DDE
CAS #: 72-55-9
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

GC Semivolatiles

Lot-Sample #...: A0B180429-012 **Work Order #...:** LVTT01AD **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0054022
Dilution Factor: 2 **Initial Wgt/Vol:** 30.1 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 1.9 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	8.2	ug/kg	2.4
alpha-BHC	ND	5.1	ug/kg	1.5
beta-BHC	ND	7.1	ug/kg	2.2
delta-BHC	ND	8.2	ug/kg	2.4
gamma-BHC (Lindane)	ND	5.1	ug/kg	1.5
alpha-Chlordane	ND	6.1	ug/kg	1.9
gamma-Chlordane	ND	3.5	ug/kg	0.86
4,4'-DDD	ND	4.1	ug/kg	1.3
4,4'-DDE	ND	3.5	ug/kg	0.80
4,4'-DDT	ND	4.1	ug/kg	1.3
Dieldrin	ND	3.5	ug/kg	0.96
Endosulfan I	ND	3.5	ug/kg	1.1
Endosulfan II	ND	5.1	ug/kg	1.7
Endosulfan sulfate	ND	6.1	ug/kg	1.8
Endrin	ND	3.5	ug/kg	1.0
Endrin aldehyde	ND	6.1	ug/kg	2.0
Endrin ketone	ND	4.1	ug/kg	1.3
Heptachlor	ND	7.1	ug/kg	2.2
Heptachlor epoxide	ND	5.1	ug/kg	1.6
Methoxychlor	ND	10	ug/kg	3.1
Toxaphene	ND	140	ug/kg	39

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(70 - 125)
Decachlorobiphenyl	98	(55 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Elevated reporting limits. The reporting limits are elevated due to matrix interference.

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\029F2901.D
Lab Smp Id: LVTT01AD Client Smp ID: ATASS-015M-5036-SO
Inj Date : 08-MAR-2010 22:28
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LVTT01AD,2
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 09:35 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43 Cal File: 015F1501.D
Als bottle: 29
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.100	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.842	4.834	0.008	3261258	0.00848	0.1696		
25 Mirex						CAS #: 2385-85-5	

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene						CAS #: 118-74-1	
5.573	5.569	0.004	617156				
2 Diallate						CAS #: 2303-16-4	
5.718	5.697	0.021	1955363			0.00- 20.00	100.00
5.946	5.935	0.011	783600			0.00- 20.00	40.07

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

21 Kepone CAS #: 143-50-0

10.485	10.467	0.018	35304				

---

18 Chlorobenzilate CAS #: 510-15-6

10.822	10.797	0.025	118801				

---

4 alpha-BHC CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

---

5 gamma-BHC (Lindane) CAS #: 58-89-9

6.314	6.293	0.021	72561	1e-004	0.08501		

---

6 beta-BHC CAS #: 319-85-7

6.487	6.465	0.022	456186	0.00206	1.368		

---

7 delta-BHC CAS #: 319-86-8

6.724	6.704	0.020	1577026	0.00149	0.9913		

---

9 Heptachlor CAS #: 76-44-8

7.036	7.016	0.020	395640909	0.36204	240.6		

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

16 4,4'-DDE CAS #: 72-55-9

9.693	9.697	-0.004	1889259	0.00210	1.398		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.587    9.609   -0.022           17981  2e-005  0.01452
-------------------------------------------------------------------------------
   17 Dieldrin                                    CAS #: 60-57-1
10.018  10.047   -0.029          264167  8e-004   0.5001
-------------------------------------------------------------------------------
   20 Endrin                                      CAS #: 72-20-8
10.405  10.398    0.007          389081 5.e-004   0.3350
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
22 4,4'-DDD					CAS #: 72-54-8		
10.678	10.664	0.014	135312	0.00022	0.1464		
23 Endosulfan II					CAS #: 33213-65-9		
10.752	10.740	0.012	856062	0.00282	1.874		
19 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

8 Tech Chlordane					CAS #: 57-74-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		
11.061	11.058	0.003	609234	1e-003	0.6596		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.357	11.345	0.012	162327	3e-004	0.2105		
27 Methoxychlor					CAS #: 72-43-5		

Peaks not detected for Quant. or Qual. signal(s).

28 Endosulfan sulfate					CAS #: 1031-07-8		
11.878	11.898	-0.020	167046	6e-004	0.3933		
29 Endrin ketone					CAS #: 53494-70-5		
12.214	12.210	0.004	88226	1e-004	0.09545		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.423	13.420	0.003	2341288	0.00982	0.1964		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\029F2901.D

Page 1

Date : 08-MAR-2010 22:28

Client ID: ATASS-015M-5036-SO

Instrument: a2hp3.i

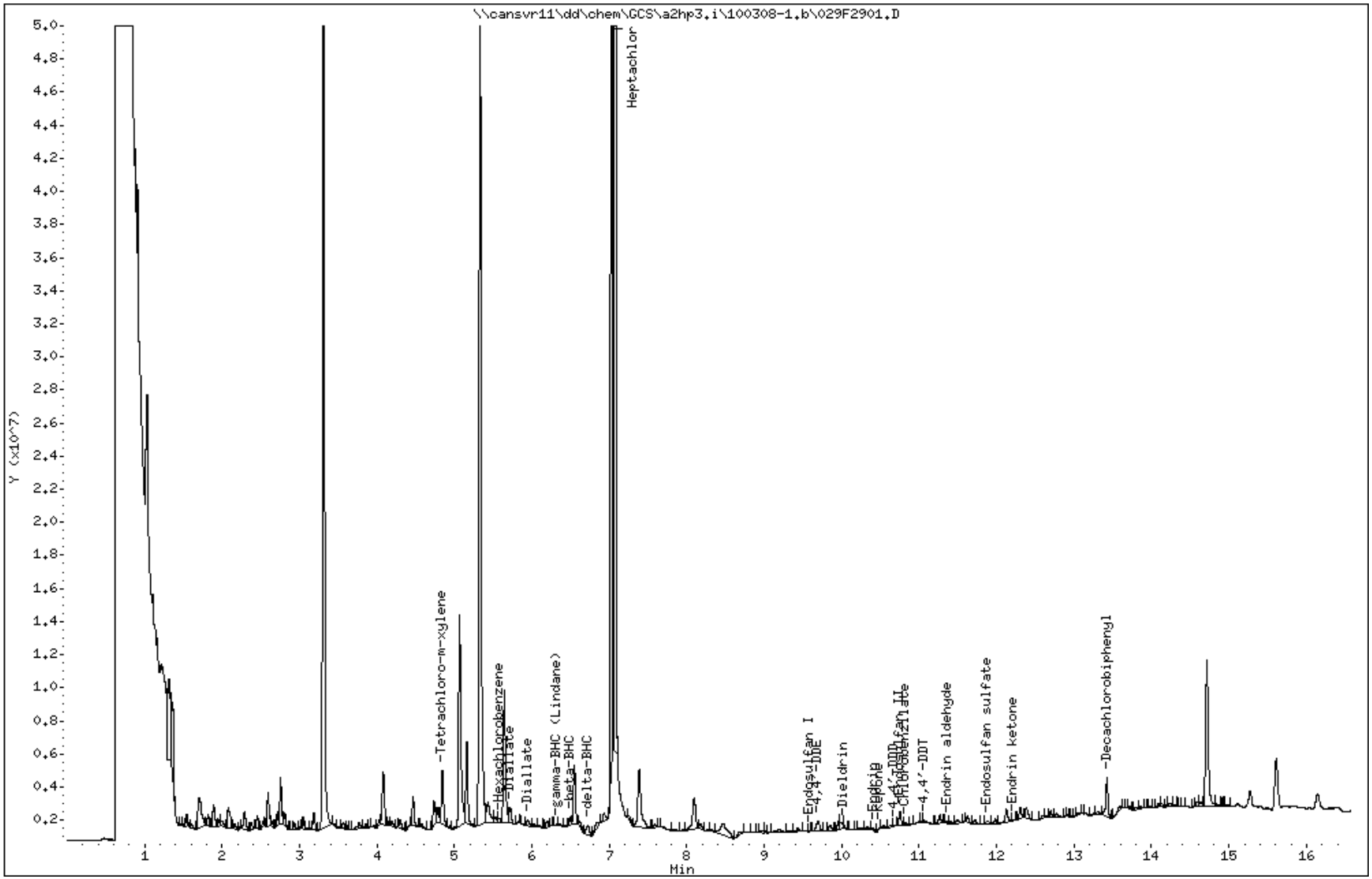
Sample Info: LVTT01AD,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 22:28
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/029F2901.D
Lab Sample ID: LVTT01AD
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.843	6134995	0.008	0.170 ug/Kg
3) Hexachlorobenzene	5.574	617156	0.000	0.000 ug/Kg
2) Diallate	5.719	1955363	0.000	0.000 ug/Kg
4) alpha-BHC	NOT DETECTED	Expected RT = 5.789		
5) gamma-BHC (Lindane)	6.315	106494	0.000	0.085 ug/Kg
6) beta-BHC	6.488	702088	0.002	1.368 ug/Kg
7) delta-BHC	6.725	1577026	0.001	0.991 ug/Kg
8) Tech Chlordane	NOT DETECTED	Expected RT = 6.899		
9) Heptachlor	7.036	395640909	0.362	240.558 ug/Kg
10) Aldrin	NOT DETECTED	Expected RT = 7.506		
11) Isodrin	NOT DETECTED	Expected RT = 8.140		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 8.837		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 9.115		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 9.397		
15) Endosulfan I	9.588	17981	0.000	0.015 ug/Kg
16) 4,4'-DDE	9.694	1889259	0.002	1.398 ug/Kg
17) Dieldrin	10.019	476293	0.001	0.500 ug/Kg
20) Endrin	10.405	389081	0.001	0.335 ug/Kg
21) Kepone	10.485	131095	0.000	0.000 ug/Kg
22) 4,4'-DDD	10.679	135312	0.000	0.146 ug/Kg
23) Endosulfan II	10.752	1711523	0.003	1.874 ug/Kg
18) Chlorobenzilate	10.822	272714	0.000	0.000 ug/Kg
19) Toxaphene	NOT DETECTED	Expected RT = 10.850		
24) 4,4'-DDT	11.061	609234	0.001	0.660 ug/Kg
26) Endrin aldehyde	11.357	162327	0.000	0.211 ug/Kg
25) Mirex	NOT DETECTED	Expected RT = 11.684		
27) Methoxychlor	NOT DETECTED	Expected RT = 11.767		
28) Endosulfan sulfate	11.879	428387	0.001	0.393 ug/Kg
29) Endrin ketone	12.215	88226	0.000	0.095 ug/Kg
30) Decachlorobiphenyl	13.424	4519698	0.010	0.196 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\029F2901.D
Lab Smp Id: LVTT01AD Client Smp ID: ATASS-015M-5036-SO
Inj Date : 08-MAR-2010 22:28
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LVTT01AD,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 09:37 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 29
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.100	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.716	5.692	0.024	4674205	0.04723	0.9447		(R)
27 Mirex						CAS #: 2385-85-5	

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene						CAS #: 118-74-1	

Peaks not detected for Quant. or Qual. signal(s).

2 Diallate						CAS #: 2303-16-4	
6.582	6.557	0.025	117098			0.00- 20.00	100.00
6.672	6.672	0.000	152627			0.00- 20.00	130.34

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

21 Kepone CAS #: 143-50-0

11.743	11.749	-0.006	14886				

---

18 Chlorobenzilate CAS #: 510-15-6

11.690	11.700	-0.010	9885				

---

4 alpha-BHC CAS #: 319-84-6

6.795	6.769	0.026	11364	1e-004	0.08405		

---

16 4,4'-DDE CAS #: 72-55-9

11.094	11.092	0.002	54010	6e-004	0.3677		

---

15 Endosulfan I CAS #: 959-98-8

Peaks not detected for Quant. or Qual. signal(s).

---

5 gamma-BHC (Lindane) CAS #: 58-89-9

7.422	7.403	0.019	30850	5e-004	0.3034		

---

6 beta-BHC CAS #: 319-85-7

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

20 Endrin CAS #: 72-20-8

11.583	11.611	-0.028	17823	3e-004	0.2280		

---

22 4,4'-DDD CAS #: 72-54-8

11.827	11.856	-0.029	119442	0.00172	1.144		

---

23 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

19 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

12.232	12.231	0.001	61267	9e-004	0.5685		

---

25 Endrin aldehyde CAS #: 7421-93-4

12.311	12.324	-0.013	11898	3e-004	0.2144		

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Methoxychlor CAS #: 72-43-5

13.057	13.037	0.020	35832	0.00191	1.269		

---

29 Endrin ketone CAS #: 53494-70-5

13.219	13.227	-0.008	67757	0.00133	0.8870		

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

14.691	14.687	0.004	264614	0.00982	0.1964		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\029F2901.D

Page 1

Date : 08-MAR-2010 22:28

Client ID: ATASS-015M-5036-SO

Instrument: a2hp3.i

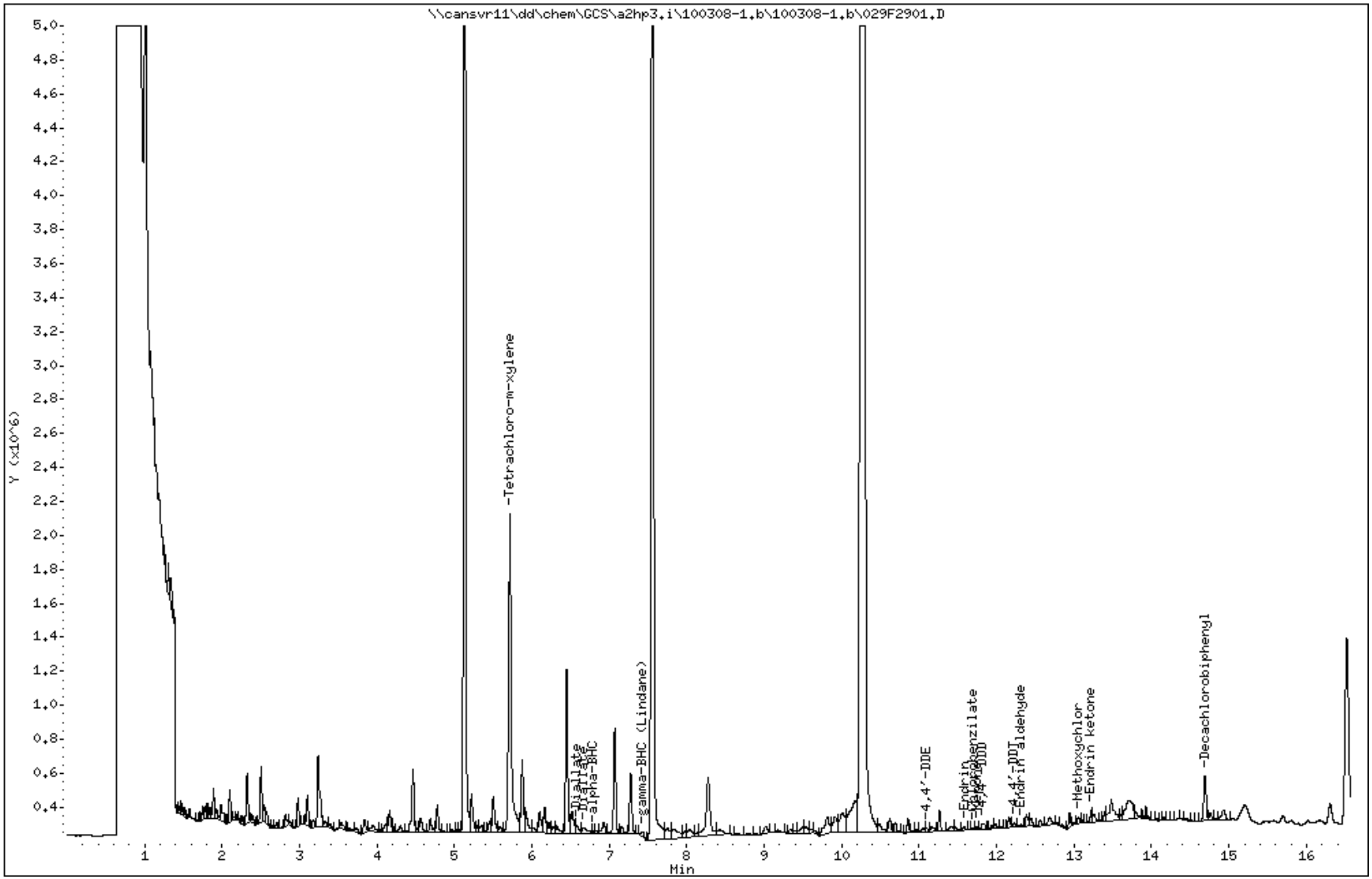
Sample Info: LVTT01AD,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 22:28
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/029F2901.D
Lab Sample ID: LVTT01AD
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.716	4674205	0.047	0.945 ug/Kg
3) Hexachlorobenzene	NOT DETECTED	Expected RT = 6.552		
2) Diallate	6.582	117098	0.000	0.000 ug/Kg
4) alpha-BHC	6.795	20635	0.000	0.084 ug/Kg
5) gamma-BHC (Lindane)	7.422	93624	0.000	0.303 ug/Kg
6) beta-BHC	NOT DETECTED	Expected RT = 7.618		
9) Tech Chlordane	NOT DETECTED	Expected RT = 7.987		
7) delta-BHC	NOT DETECTED	Expected RT = 8.231		
8) Heptachlor	NOT DETECTED	Expected RT = 8.308		
10) Aldrin	NOT DETECTED	Expected RT = 9.058		
11) Isodrin	NOT DETECTED	Expected RT = 9.848		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 10.217		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 10.531		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 10.764		
15) Endosulfan I	NOT DETECTED	Expected RT = 10.815		
16) 4,4'-DDE	11.095	54010	0.001	0.368 ug/Kg
17) Dieldrin	NOT DETECTED	Expected RT = 11.215		
20) Endrin	11.584	41119	0.000	0.228 ug/Kg
18) Chlorobenzilate	11.690	13180	0.000	0.000 ug/Kg
21) Kepone	11.744	23636	0.000	0.000 ug/Kg
22) 4,4'-DDD	11.827	119442	0.002	1.144 ug/Kg
23) Endosulfan II	NOT DETECTED	Expected RT = 11.896		
19) Toxaphene	NOT DETECTED	Expected RT = 12.014		
24) 4,4'-DDT	12.232	61267	0.001	0.568 ug/Kg
25) Endrin aldehyde	12.311	27955	0.000	0.214 ug/Kg
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.651		
28) Methoxychlor	13.058	67221	0.002	1.269 ug/Kg
27) Mirex	NOT DETECTED	Expected RT = 13.203		
29) Endrin ketone	13.220	133500	0.001	0.887 ug/Kg
30) Decachlorobiphenyl	14.691	575115	0.010	0.196 ug/Kg

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 09-Mar-2010 09:48

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Start Cal Date: 11-FEB-2010 09:19
End Cal Date : 08-MAR-2010 15:39
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
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11-FEB-2010 13:50	11-MIREX	\\cansvr11\dd\chem\GCS\a2hp3.i\100211IC-1.b\014F1401.D
23-FEB-2010 16:55	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\008F0801.D
23-FEB-2010 14:53	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\003F0301.D
Cal Level: 2 , Cal Amount: 0.01000		
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11-FEB-2010 14:15	11-MIREX	\\cansvr11\dd\chem\GCS\a2hp3.i\100211IC-1.b\015F1501.D
23-FEB-2010 17:20	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\009F0901.D
23-FEB-2010 15:17	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\004F0401.D
Cal Level: 3 , Cal Amount: 0.02500		
08-MAR-2010 13:35	1-AB	\\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\008F0801.D
11-FEB-2010 14:40	11-MIREX	\\cansvr11\dd\chem\GCS\a2hp3.i\100211IC-1.b\016F1601.D
23-FEB-2010 17:45	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\010F1001.D
23-FEB-2010 15:42	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\005F0501.D
Cal Level: 4 , Cal Amount: 0.05000		
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23-FEB-2010 18:10	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\011F1101.D
23-FEB-2010 16:06	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\006F0601.D

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23-FEB-2010 18:35	15-TECHLOR
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Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

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09-MAR-2010 06:28	1-AB
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09-MAR-2010 01:09	16-toxaph
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09-MAR-2010 01:58	1-ab
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08-MAR-2010 20:25	1-ab
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08-MAR-2010 13:35	1-AB
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08-MAR-2010 11:55	1-AB
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Report Date: 09-Mar-2010 09:48

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Start Cal Date: 11-FEB-2010 09:19
End Cal Date : 08-MAR-2010 15:39
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
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11-FEB-2010 13:50	11-MIREX	\\cansvr11\dd\chem\GCS\a2hp3.i\100211IC-1.b\100211IC-1.b\014F1401.D
23-FEB-2010 16:55	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\008F0801.D
23-FEB-2010 14:53	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\003F0301.D
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08-MAR-2010 13:10	1-AB	\\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\007F0701.D
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23-FEB-2010 17:20	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\009F0901.D
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23-FEB-2010 18:10	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\011F1101.D
23-FEB-2010 16:06	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\006F0601.D

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Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

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Report Date : 09-Mar-2010 07:31

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 11-FEB-2010 09:19
End Cal Date : 08-MAR-2010 15:39
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Last Edit : 09-Mar-2010 07:20 vandorenc

Calibration File Names:
Level 1: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\006F0601.D
Level 2: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\007F0701.D
Level 3: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\008F0801.D
Level 4: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\013F1301.D
Level 5: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\010F1001.D
Level 6: \\cansvr11\dd\chem\GCS\a2hp3.i\100212IC-1.b\015F1501.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
2 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	LINR	0.000e+000	0.000e+000		0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	LINR	0.000e+000	0.000e+000		0.000e+000	<-
3 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
4 alpha-BHC	658200200	643947800	635209520	657942720	604420960	604432130	AVRG		634025555		3.86886	
5 gamma-BHC (Lindane)	588737200	579813100	566716200	588804400	546171900	532587710	AVRG		567138418		4.12017	
6 beta-BHC	245359800	228201600	216885240	226626800	207330040	205106495	AVRG		221584996		6.78826	
7 delta-BHC	1.086e+009	1.056e+009	1.053e+009	1.104e+009	1.024e+009	1.020e+009	AVRG		1.057e+009		3.17271	
8 Tech Chlordane(1)	42334250	39385420	37775490	37071100	31734156	+++++	AVRG		37660083		10.30986	
(2)	44805450	41024340	38555480	37757455	32913024	+++++	AVRG		39011150		11.21700	
(3)	130429650	129198040	123363350	124015490	110445012	+++++	AVRG		123490308		6.41728	
(4)	187590600	179114480	175220280	192517245	170306334	+++++	AVRG		180949788		4.99967	
9 Heptachlor	1.125e+009	1.107e+009	1.039e+009	1.050e+009	1.205e+009	1.030e+009	AVRG		1.093e+009		6.14747	
10 Aldrin	434330800	417811400	401886040	411670540	374875010	355794195	AVRG		399394664		7.27292	
11 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 11-FEB-2010 09:19
End Cal Date : 08-MAR-2010 15:39
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Last Edit : 09-Mar-2010 07:20 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Heptachlor epoxide	1.066e+009	1.002e+009	942756440	949439560	842522970	788155055	AVRG		931835754		10.93970	
13 gamma-Chlordane	338018800	323503400	311492720	327035220	303833600	295077855	AVRG		316493599		5.03068	
14 alpha-Chlordane	347853200	333537800	321596160	331711820	302526860	302256660	AVRG		323247083		5.62945	
15 Endosulfan I	931426400	886674800	834612200	838053940	744251020	700007510	AVRG		822504312		10.52903	
16 4,4'-DDE	948387400	926714000	899942240	923236780	847602850	842454915	AVRG		898056364		4.88659	
17 Dieldrin	386388000	369928600	357299120	363000620	326410420	302917180	AVRG		350990657		8.74523	
18 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	LINR	0.000e+000	0.000e+000		0.000e+000	<-
19 Toxaphene (1)	11588960	10887592	10759158	11190467	10827399	+++++	AVRG		11050715		3.10429	
(2)	10421630	10268018	10487655	10967279	10582502	+++++	AVRG		10545417		2.48619	
(3)	13130400	12672252	12537199	13131453	12469032	+++++	AVRG		12788067		2.51342	
(4)	11748025	11849890	11668801	12602317	12217611	+++++	AVRG		12017329		3.23451	
(5)	5978930	6172086	6101971	6690029	6688216	+++++	AVRG		6326246		5.34911	
20 Endrin	857408600	822060200	778581000	787779740	708195290	676406075	AVRG		771738484		8.84585	
21 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
22 4,4'-DDD	641790400	625321500	606482920	622283800	588665260	600190210	AVRG		614122348		3.13901	
23 Endosulfan II	334907600	321635600	306968680	310116520	278054370	269084260	AVRG		303461172		8.34055	
24 4,4'-DDT	639635200	613412100	596866920	624287020	590413600	617668085	AVRG		613713821		2.93853	
25 Mirex	3387676	5427900	10540756	21087253	40701343	80392571	LINR	-0.00609	197830114		0.99990	
26 Endrin aldehyde	574869000	541062900	503673160	517624820	472025640	464860970	AVRG		512352748		8.14967	
27 Methoxychlor	299234000	262362800	256974480	254573060	232098210	238626025	AVRG		257311429		9.15641	
28 Endosulfan sulfate	314213200	294375200	276684200	285005800	259263910	263713735	AVRG		282209341		7.22587	
29 Endrin ketone	691091600	640378500	608964240	614890140	560143430	569560885	AVRG		614171466		7.82228	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 11-FEB-2010 09:19
End Cal Date : 08-MAR-2010 15:39
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Last Edit : 09-Mar-2010 07:20 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 1 Tetrachloro-m-xylene	420627000	401141500	381933600	396377500	361638430	346060175	AVRG		384629701		7.10105
$ 30 Decachlorobiphenyl	263509800	250296700	234288600	237103640	211174910	234288455	AVRG		238443684		7.38100

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 11-FEB-2010 09:19
End Cal Date : 08-MAR-2010 15:39
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Last Edit : 09-Mar-2010 07:20 vandorenc

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date : 09-Mar-2010 09:17

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 11-FEB-2010 09:19
End Cal Date : 08-MAR-2010 15:39
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Last Edit : 09-Mar-2010 09:00 vandorenc

Calibration File Names:
Level 1: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\006F0601.D
Level 2: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\007F0701.D
Level 3: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\008F0801.D
Level 4: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\013F1301.D
Level 5: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\010F1001.D
Level 6: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\011F1101.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
2 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
3 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
4 alpha-BHC	76608200	81593400	88495160	97818100	96360510	98165030	AVRG		89840067		10.20611	
5 gamma-BHC (Lindane)	59423000	61078200	65719000	73027580	72236420	73935970	AVRG		67570028		9.45382	
6 beta-BHC	25048800	24436500	23991920	25453820	25002110	25995740	AVRG		24988148		2.84824	
7 delta-BHC	112954800	116237400	126837120	144337580	146479430	154679125	AVRG		133587576		12.96101	
8 Heptachlor	131264200	131848600	135958320	148449800	146195290	149363450	AVRG		140513277		5.99643	
9 Tech Chlordane(1)	1604550	1463100	1415090	1419220	1347414	+++++	AVRG		1449875		6.61077	
(2)	2327800	1839760	1635640	1536090	1348616	+++++	AVRG		1737581		21.55453	<-
(3)	5384000	4959800	5079200	5324880	5134222	+++++	AVRG		5176420		3.39155	<-
(4)	4720350	4364560	4419390	4549840	4346624	+++++	AVRG		4480153		3.48365	<-
10 Aldrin	119638000	121017400	122455640	138319200	137574620	142892300	AVRG		130316193		7.95377	
11 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 11-FEB-2010 09:19
End Cal Date : 08-MAR-2010 15:39
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Last Edit : 09-Mar-2010 09:00 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Heptachlor epoxide	49126800	48737900	49908160	54547320	52916150	52938880	AVRG		51362535		4.69241	
13 gamma-Chlordane	49696000	49410400	51229320	56591140	55316440	58336710	AVRG		53430002		7.13032	
14 alpha-Chlordane	50808000	50930800	51426120	55813940	55000180	57785305	AVRG		53627391		5.53290	
15 Endosulfan I	102952800	101065500	101034160	110159800	107076360	110263890	AVRG		105425418		4.08987	
16 4,4'-DDE	88218800	88289000	94137640	103967580	101271770	109741240	AVRG		97604338		9.02678	
17 Dieldrin	100160600	99182700	105083760	116775920	111309870	117107450	AVRG		108270050		7.36795	
18 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
19 Toxaphene (1)	1767825	1715488	1803579	1925879	1945824	+++++	AVRG		1831719		5.47774	
(2)	787780	768876	816978	897710	911624	+++++	AVRG		836594		7.72764	
(3)	1764615	1770180	1843980	2012607	2023557	+++++	AVRG		1882988		6.76048	
(4)	1569250	1528898	1566662	1699494	1699210	+++++	AVRG		1612703		5.00376	
(5)	693760	721854	758816	839275	884407	+++++	AVRG		779622		10.27752	
20 Endrin	47794600	48560600	49695000	55907820	53764910	55878530	AVRG		51933577		7.11305	
21 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
22 4,4'-DDD	61630000	62334200	64753440	72018740	73884660	81639250	AVRG		69376715		11.32499	
23 Endosulfan II	47506200	46059400	47028480	51111620	49988480	52360990	AVRG		49009195		5.12122	
24 4,4'-DDT	65835800	64948200	66934480	74554280	73727250	83662715	AVRG		71610454		10.03111	
25 Endrin aldehyde	35863600	34755800	34365240	38091480	37445250	40718620	AVRG		36873332		6.46241	
26 Endosulfan sulfate	42212200	40824200	40474920	44174620	43887180	46511705	AVRG		43014138		5.32464	
27 Mirex	49365700	39957450	32729040	32834850	32760760	33459440	AVRG		36851207		18.30918	
28 Methoxychlor	18929000	18209000	17810320	18487520	18335570	20795435	AVRG		18761141		5.65672	
29 Endrin ketone	48933800	47163900	48076040	52359360	51338360	56673060	AVRG		50757420		6.89989	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 11-FEB-2010 09:19
End Cal Date : 08-MAR-2010 15:39
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Last Edit : 09-Mar-2010 09:00 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 1 Tetrachloro-m-xylene	96864400	96252000	96022720	102209900	100335730	102059980	AVRG		98957455		2.94330
$ 30 Decachlorobiphenyl	30523000	28512000	25992920	26173960	24152770	26340880	AVRG		26949255		8.28403

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 11-FEB-2010 09:19
End Cal Date : 08-MAR-2010 15:39
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Last Edit : 09-Mar-2010 09:00 vandorenc

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b/002F0201.D
Report Date: 03/09/2010

EVALB Degradation Report

Instrument ID: a2hp3.i Injection Date: 08-MAR-2010 11:05
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
11.060	56149158	4,4'-DDT
9.6985	516551	4,4'-DDE
10.669	2305062	4,4'-DDD

Percent Degradation of 4,4'-DDT: 4.78

Endrin Degradation

RT	Area	Compound
10.399	34264135	Endrin
11.348	1193752	Endrin aldehyde
12.211	2356363	Endrin ketone

Percent Degradation of Endrin: 9.39

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 08-MAR-2010 11:05
Operator : 093905   Inst ID: a2hp3.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 02:11 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39   Cal File: 013F1301.D
Als bottle: 2   QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 12-PEM.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
5.791	5.796	-0.005	6212694	0.00980	0.009799		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
6.296	6.301	-0.005	5555001	0.00979	0.009795		
6 beta-BHC					CAS #: 319-85-7		
6.466	6.473	-0.007	2148599	0.00970	0.009696		
16 4,4'-DDE					CAS #: 72-55-9		
9.698	9.707	-0.009	170317	5e-004	0.0005330		
20 Endrin					CAS #: 72-20-8		
10.399	10.406	-0.007	34264135	0.04440	0.04440		
22 4,4'-DDD					CAS #: 72-54-8		
10.668	10.675	-0.007	945076	0.00349	0.003492		
23 Endosulfan II					CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		
11.060	11.067	-0.007	26556377	0.09456	0.09456		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.347	11.353	-0.006	1193752	0.00233	0.002330		

```
   27 Methoxychlor                                CAS #: 72-43-5
11.768  11.775   -0.007        55375883 0.21521   0.2152
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.899  11.905   -0.006          152664  5e-004  0.0005410
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
12.211	12.217	-0.006	2356363	0.00384	0.003837		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\002F0201.D

Date : 08-MAR-2010 11:05

Client ID:

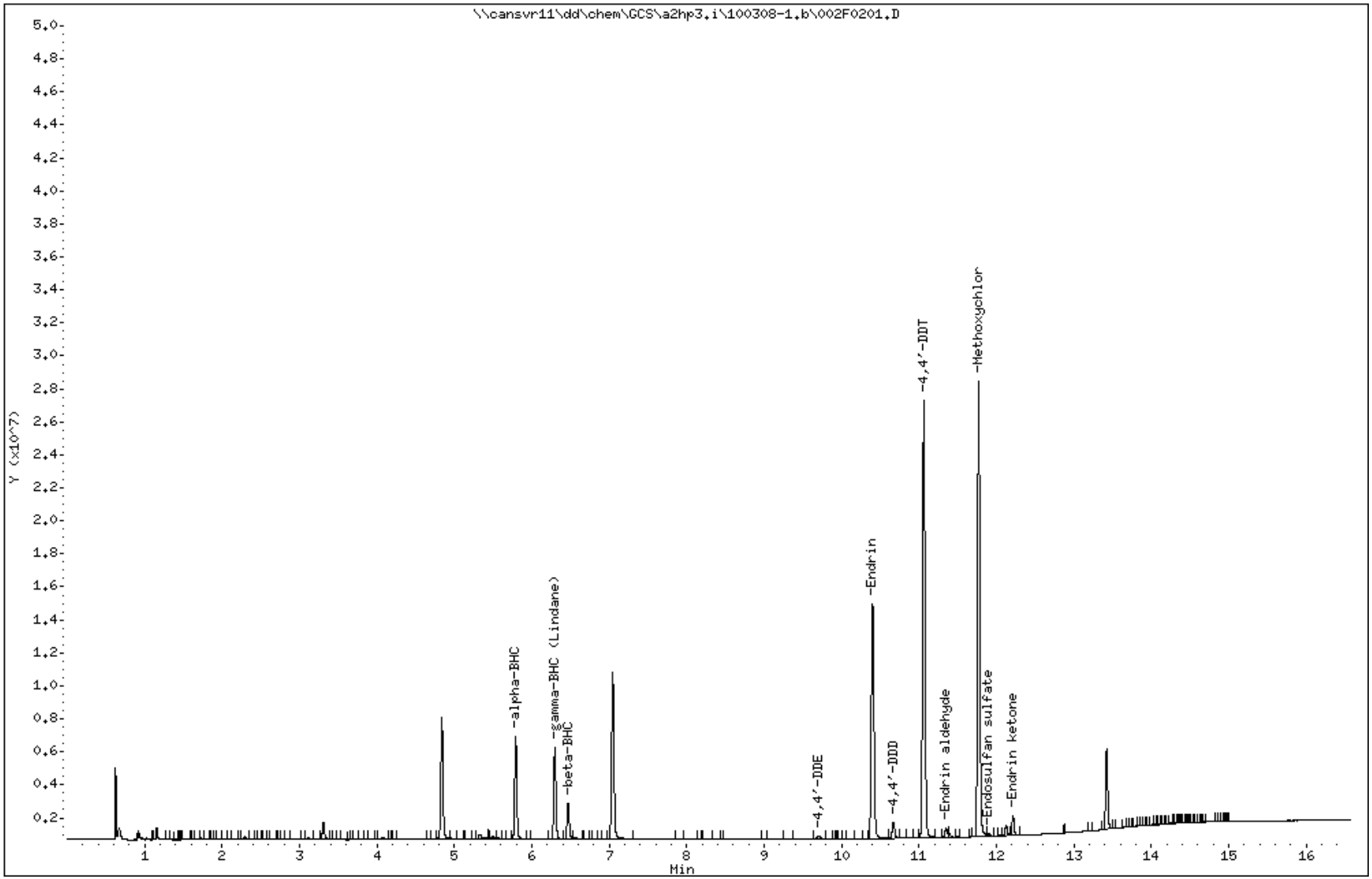
Instrument: a2hp3.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 11:05
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.791	11709904	0.011	0.011
5) gamma-BHC (Lindane)	6.297	10586613	0.011	0.011
6) beta-BHC	6.467	4257829	0.011	0.011
16) 4,4'-DDE	9.699	516551	0.001	0.001
20) Endrin	10.399	34264135	0.053	0.053
22) 4,4'-DDD	10.669	2305062	0.004	0.004
23) Endosulfan II	NOT DETECTED	Expected RT = 10.751		
24) 4,4'-DDT	11.060	56149158	0.101	0.101
26) Endrin aldehyde	11.348	1193752	0.003	0.003
27) Methoxychlor	11.769	55375883	0.217	0.217
28) Endosulfan sulfate	11.899	396752	0.001	0.001
29) Endrin ketone	12.211	2356363	0.004	0.004

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b/002F0201.D
Report Date: 03/16/2010

EVALB Degradation Report

Instrument ID: a2hp3.i Injection Date: 08-MAR-2010 11:05
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
12.231	7200345	4,4'-DDT
11.096	51157	4,4'-DDE
11.856	246396	4,4'-DDD

Percent Degradation of 4,4'-DDT: 3.97

Endrin Degradation

RT	Area	Compound
11.613	4309975	Endrin
12.324	173884	Endrin aldehyde
13.226	373047	Endrin ketone

Percent Degradation of Endrin: 11.26

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\002F0201.D
Lab Smp Id: PEM E006 Client Smp ID: ICAL
Inj Date : 08-MAR-2010 11:05
Operator : 093905 Inst ID: a2hp3.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 09:37 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO	
4 alpha-BHC						CAS #: 319-84-6		
6.770	6.769	0.001	795801	0.00877	0.008769			
5 gamma-BHC (Lindane)						CAS #: 58-89-9		
7.404	7.403	0.001	604866	0.00895	0.008952			
6 beta-BHC						CAS #: 319-85-7		
7.617	7.617	0.000	230676	0.00923	0.009231			
16 4,4'-DDE						CAS #: 72-55-9		
11.096	11.092	0.004	51157	5e-004	0.0005241			
20 Endrin						CAS #: 72-20-8		
11.612	11.611	0.001	2315796	0.04459	0.04459			(M)
22 4,4'-DDD						CAS #: 72-54-8		
11.856	11.856	0.000	246396	0.00355	0.003552			
23 Endosulfan II						CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT						CAS #: 50-29-3		
12.231	12.231	0.000	7200345	0.10055	0.1005			
25 Endrin aldehyde						CAS #: 7421-93-4		
12.324	12.324	0.000	79113	0.00215	0.002146			

```
   28 Methoxychlor                                CAS #: 72-43-5
13.038  13.037    0.001         4949808 0.26383   0.2638
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

13.226	13.227	-0.001	186307	0.00367	0.003670		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\002F0201.D

Page 1

Date : 08-MAR-2010 11:05

Client ID: ICAL

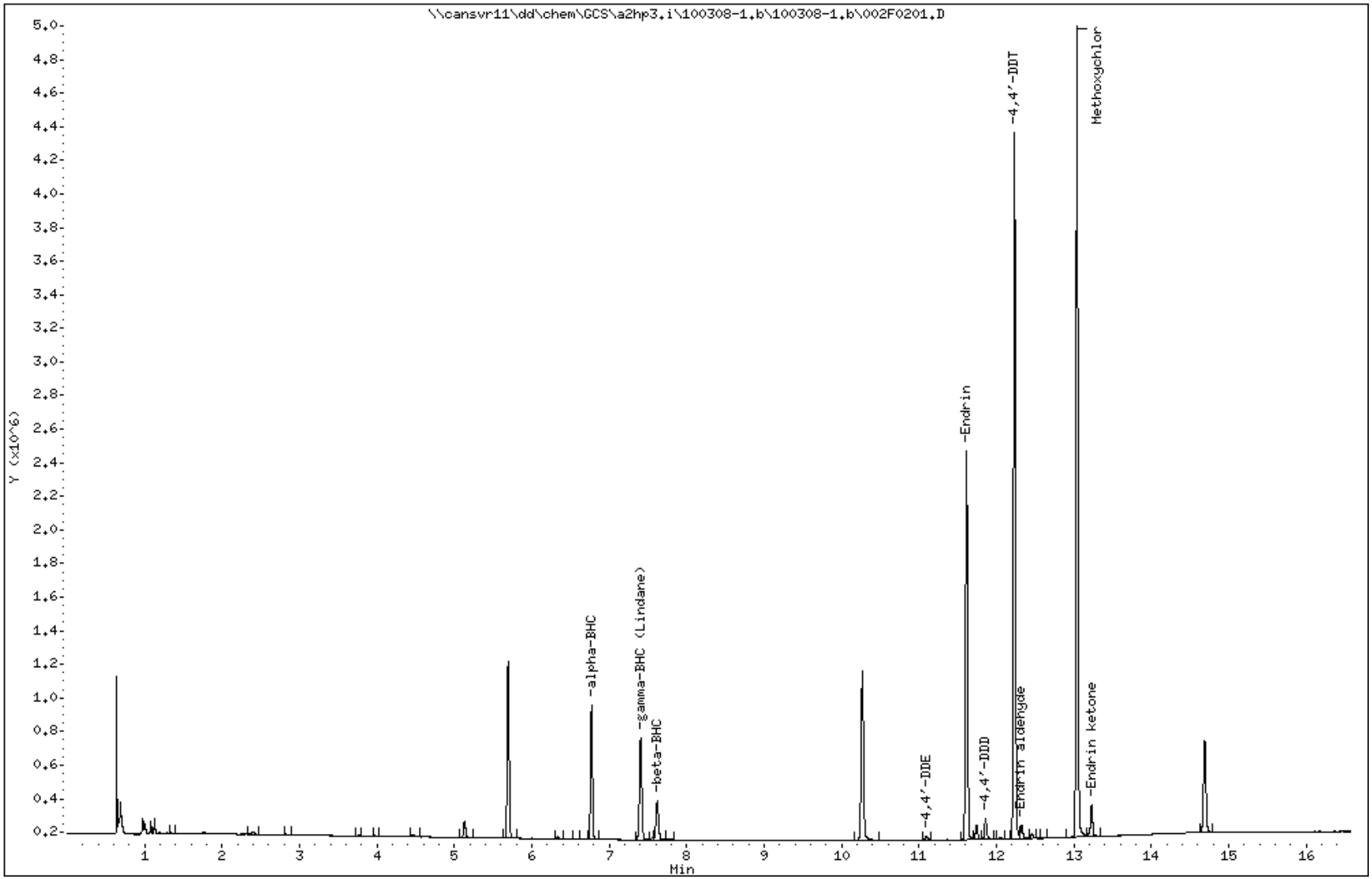
Instrument: a2hp3.i

Sample Info: PEM E006

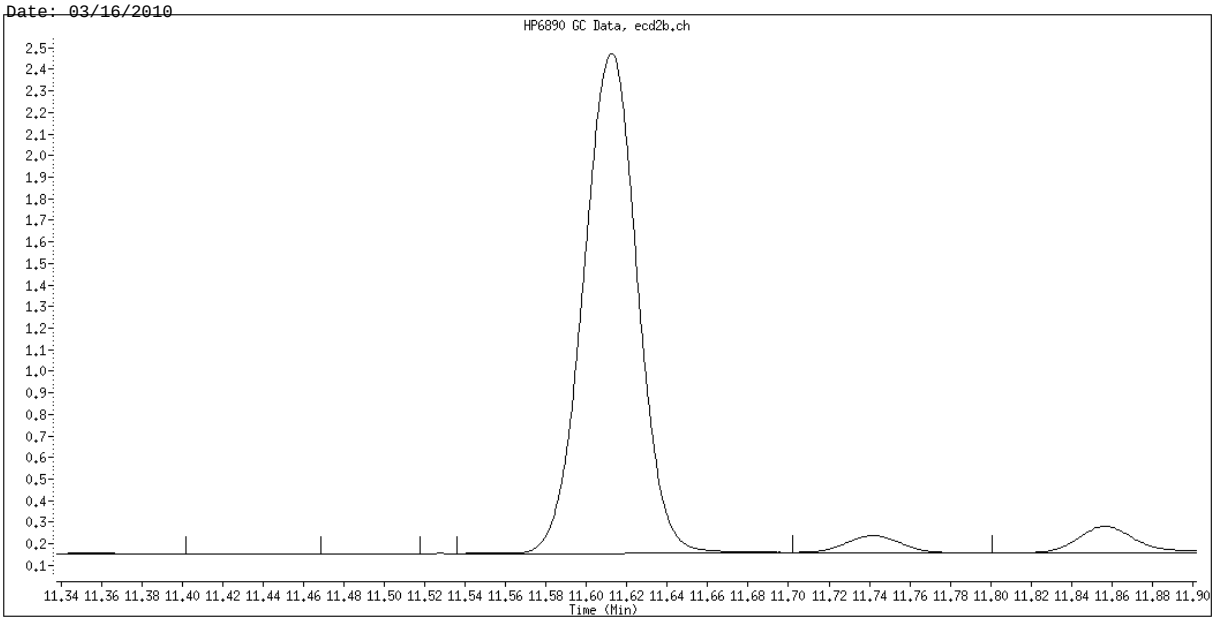
Operator: 093905

Column phase: clp pesticides II

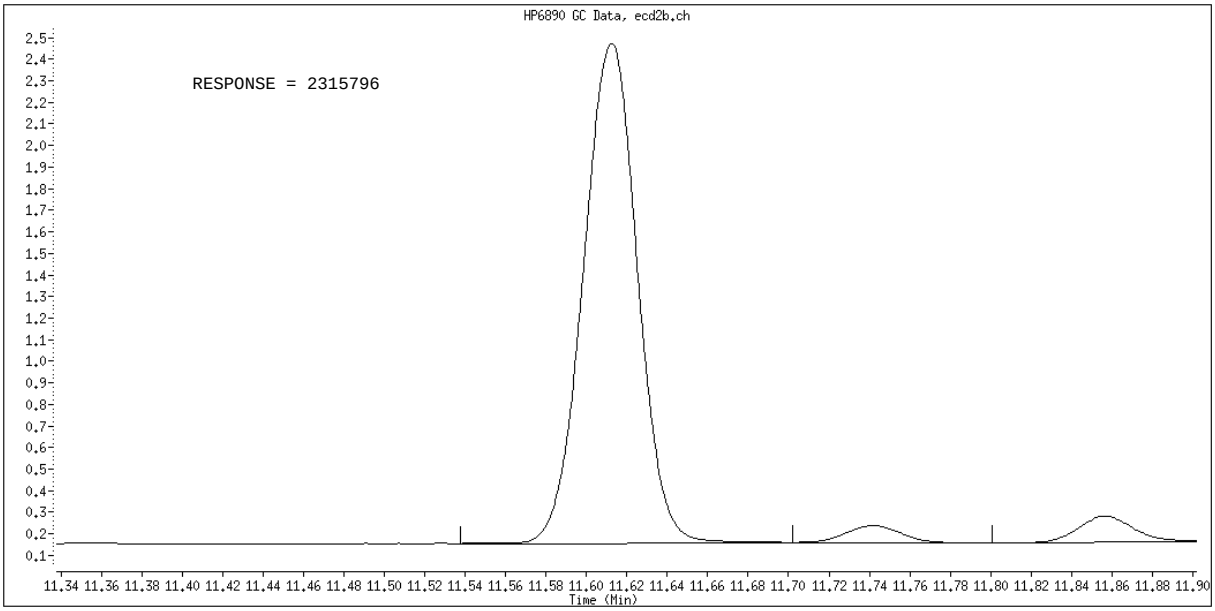
Column diameter: 0.53



Data File Name: 002F0201.D
Inj. Date and Time: 08-MAR-2010 11:05
Instrument ID: a2hp3.i
Client ID: ICAL
Compound Name: Endrin
CAS #: 72-20-8
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\006F0601.D
Lab Smp Id: AB1 G250
Inj Date : 08-MAR-2010 12:45
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB1 G250,,1,1
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 06:38 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 12:45   Cal File: 006F0601.D
Als bottle: 6   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.844	4.844	0.000	2103135	0.00500	0.005468		
4 alpha-BHC						CAS #: 319-84-6	
5.798	5.798	0.000	3291001	0.00500	0.005191		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.303	6.303	0.000	2943686	0.00500	0.005190		
6 beta-BHC						CAS #: 319-85-7	
6.474	6.474	0.000	1226799	0.00500	0.005536		
7 delta-BHC						CAS #: 319-86-8	
6.714	6.714	0.000	5432011	0.00500	0.005139		
9 Heptachlor						CAS #: 76-44-8	
7.027	7.027	0.000	5627399	0.00500	0.005149		
10 Aldrin						CAS #: 309-00-2	
7.518	7.518	0.000	2171654	0.00500	0.005438		
12 Heptachlor epoxide						CAS #: 1024-57-3	
8.852	8.852	0.000	5328664	0.00500	0.005718		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.129	9.129	0.000	1690094	0.00500	0.005340		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.408	9.408	0.000	1739266	0.00500	0.005381		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
9.709    9.709    0.000         1633061 0.00500  0.005111
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	
15 Endosulfan I						CAS #: 959-98-8		
9.621	9.621	0.000	4657132	0.00500	0.005662			
17 Dieldrin						CAS #: 60-57-1		
10.058	10.058	0.000	1931940	0.00500	0.005504			(M)
20 Endrin						CAS #: 72-20-8		
10.407	10.407	0.000	4287043	0.00500	0.005555			
22 4,4'-DDD						CAS #: 72-54-8		
10.676	10.676	0.000	1370704	0.00500	0.005064			
23 Endosulfan II						CAS #: 33213-65-9		
10.750	10.750	0.000	1674538	0.00500	0.005518			
24 4,4'-DDT						CAS #: 50-29-3		
11.069	11.069	0.000	1398781	0.00500	0.004981			
26 Endrin aldehyde						CAS #: 7421-93-4		
11.356	11.356	0.000	2874345	0.00500	0.005610			
27 Methoxychlor						CAS #: 72-43-5		
11.779	11.779	0.000	1496170	0.00500	0.005815			
28 Endosulfan sulfate						CAS #: 1031-07-8		
11.907	11.907	0.000	1571066	0.00500	0.005567			
29 Endrin ketone						CAS #: 53494-70-5		
12.219	12.219	0.000	3455458	0.00500	0.005626			
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3		
13.426	13.426	0.000	1317549	0.00500	0.005526			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\006F0601.D

Page 1

Date : 08-MAR-2010 12:45

Client ID:

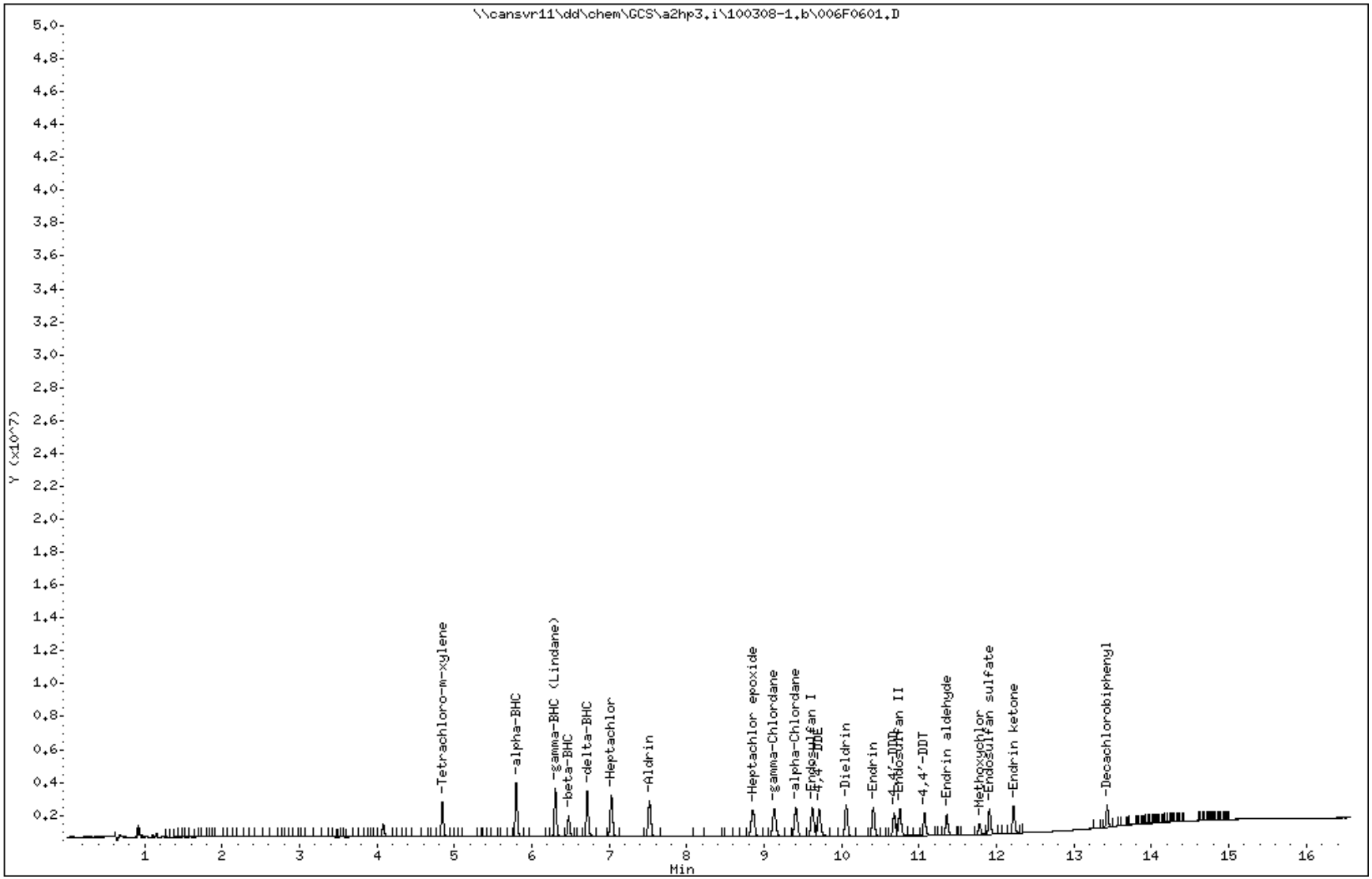
Instrument: a2hp3.i

Sample Info: AB1 G250,,1,1

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

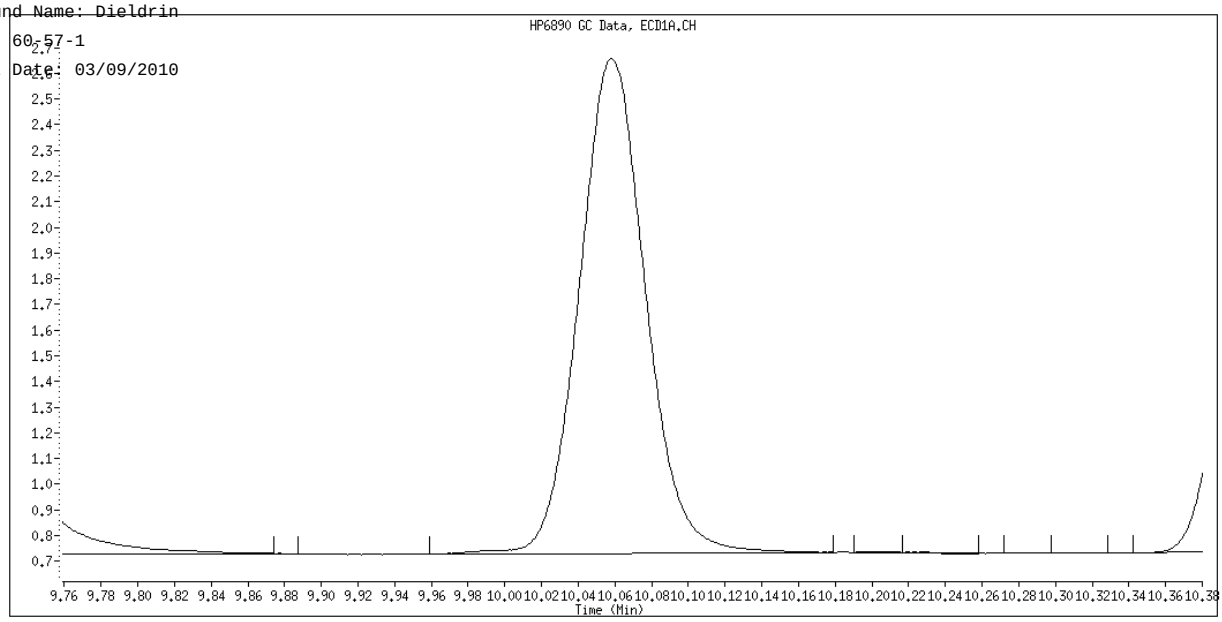


COMPOUNDS and EXP. RT REPORT

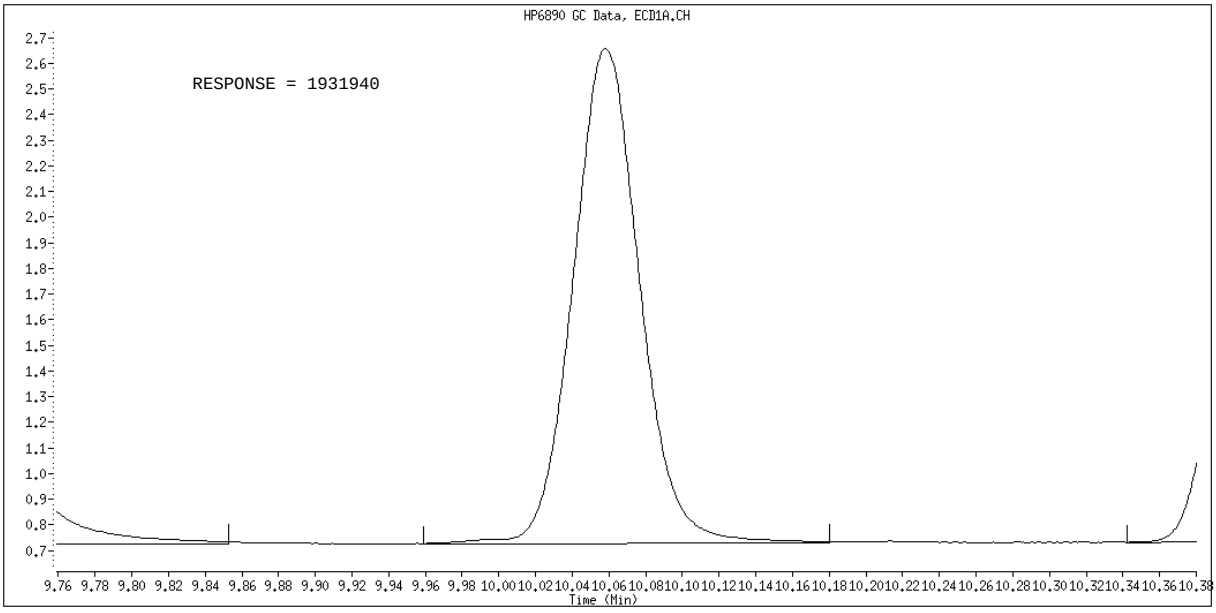
Operator: 093905 Date Acquired: 08-MAR-2010 12:45
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\006F0601.D
Lab Sample ID: AB1 G250
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.844	4120257	0.005	0.005
4) alpha-BHC	5.798	6190466	0.005	0.005
5) gamma-BHC (Lindane)	6.303	5622523	0.005	0.005
6) beta-BHC	6.475	2410872	0.006	0.006
7) delta-BHC	6.715	5432011	0.005	0.005
9) Heptachlor	7.027	5627399	0.005	0.005
10) Aldrin	7.518	5539447	0.005	0.005
12) Heptachlor epoxide	8.852	5328664	0.006	0.006
13) gamma-Chlordane	9.130	5193818	0.005	0.005
14) alpha-Chlordane	9.408	5016241	0.005	0.005
15) Endosulfan I	9.622	4657132	0.006	0.006
16) 4,4'-DDE	9.710	4741937	0.005	0.005
17) Dieldrin	10.058	4877531	0.006	0.006
20) Endrin	10.407	4287043	0.006	0.006
22) 4,4'-DDD	10.677	3208952	0.005	0.005
23) Endosulfan II	10.751	4242570	0.006	0.006
24) 4,4'-DDT	11.069	3198176	0.005	0.005
26) Endrin aldehyde	11.357	2874345	0.006	0.006
27) Methoxychlor	11.779	1496170	0.006	0.006
28) Endosulfan sulfate	11.907	3331587	0.006	0.006
29) Endrin ketone	12.219	3455458	0.006	0.006
30) Decachlorobiphenyl	13.427	2494324	0.006	0.006

Data File Name: 006F0601.D
Inj. Date and Time: 08-MAR-2010 12:45
Instrument ID: a2hp3.i
Client ID:
Compound Name: Dieldrin
CAS #: 60-57-1
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\007F0701.D
Lab Smp Id: AB2 G251
Inj Date : 08-MAR-2010 13:10
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB2 G251,,1,2
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 06:40 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 13:10   Cal File: 007F0701.D
Als bottle: 7   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.842	4.842	0.000	4011415	0.01000	0.01043		
4 alpha-BHC						CAS #: 319-84-6	
5.796	5.796	0.000	6439478	0.01000	0.01016		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.301	6.301	0.000	5798131	0.01000	0.01022		
6 beta-BHC						CAS #: 319-85-7	
6.472	6.472	0.000	2282016	0.01000	0.01030		
7 delta-BHC						CAS #: 319-86-8	
6.712	6.712	0.000	10558269	0.01000	0.009988		
9 Heptachlor						CAS #: 76-44-8	
7.024	7.024	0.000	11073989	0.01000	0.01013		
10 Aldrin						CAS #: 309-00-2	
7.516	7.516	0.000	4178114	0.01000	0.01046		
12 Heptachlor epoxide						CAS #: 1024-57-3	
8.850	8.850	0.000	10024077	0.01000	0.01076		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.126	9.126	0.000	3235034	0.01000	0.01022		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.407	9.407	0.000	3335378	0.01000	0.01032		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
9.708    9.708    0.000         3213901 0.01000  0.01006
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
9.622	9.622	0.000	8866748	0.01000	0.01078		
17 Dieldrin					CAS #: 60-57-1		
10.057	10.057	0.000	3699286	0.01000	0.01054		
20 Endrin					CAS #: 72-20-8		
10.407	10.407	0.000	8220602	0.01000	0.01065		
22 4,4'-DDD					CAS #: 72-54-8		
10.675	10.675	0.000	2678142	0.01000	0.009895		
23 Endosulfan II					CAS #: 33213-65-9		
10.749	10.749	0.000	3216356	0.01000	0.01060		
24 4,4'-DDT					CAS #: 50-29-3		
11.067	11.067	0.000	2761762	0.01000	0.009834		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.354	11.354	0.000	5410629	0.01000	0.01056		
27 Methoxychlor					CAS #: 72-43-5		
11.777	11.777	0.000	2623628	0.01000	0.01020		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.906	11.906	0.000	2943752	0.01000	0.01043		
29 Endrin ketone					CAS #: 53494-70-5		
12.217	12.217	0.000	6403785	0.01000	0.01043		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.426	13.426	0.000	2502967	0.01000	0.01050		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\007F0701.D

Date : 08-MAR-2010 13:10

Client ID:

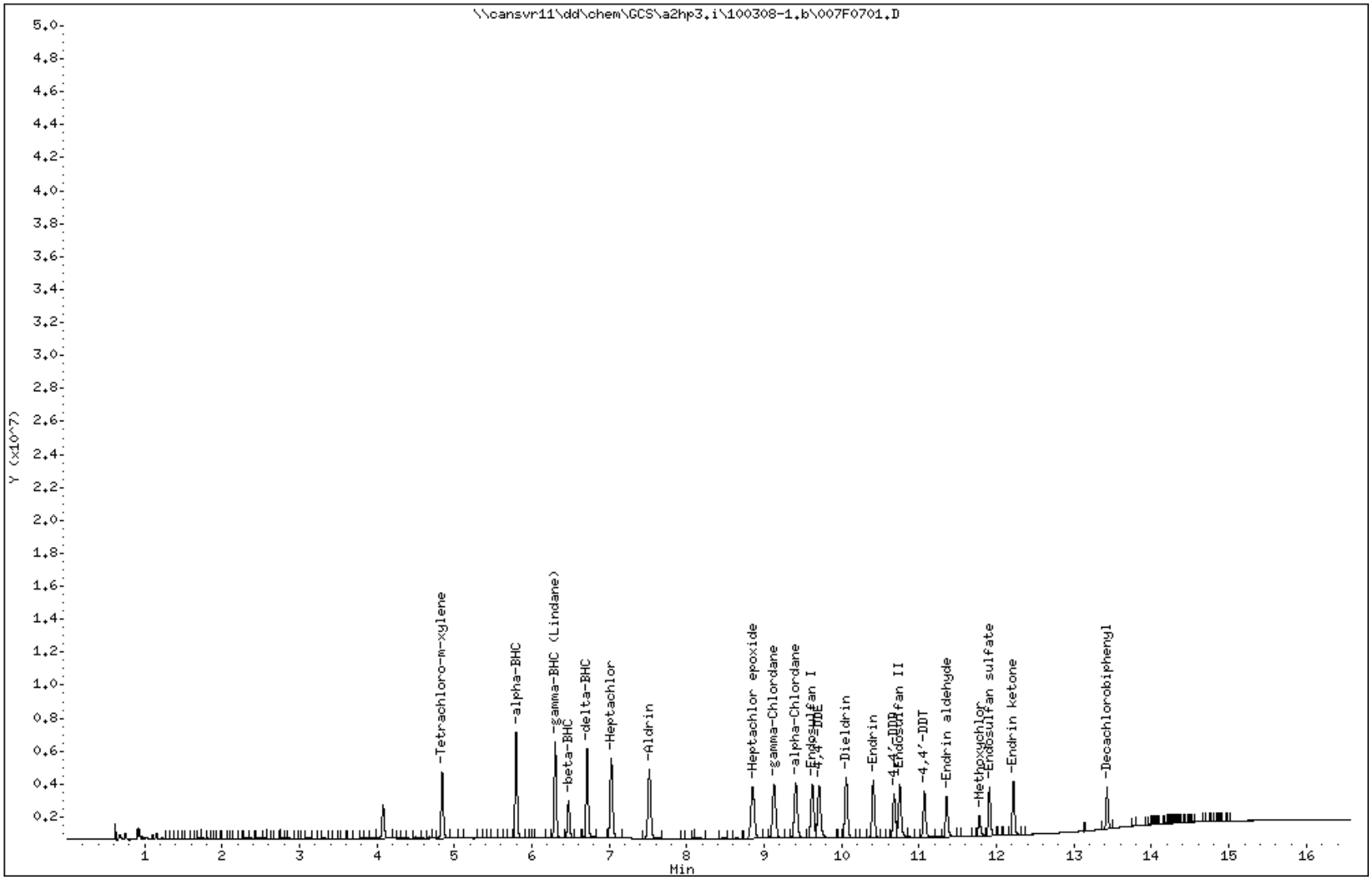
Instrument: a2hp3.i

Sample Info: AB2 G251,,1,2

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 13:10
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/007F0701.D
Lab Sample ID: AB2 G251
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.842	7858150	0.010	0.010
4) alpha-BHC	5.796	12124006	0.010	0.010
5) gamma-BHC (Lindane)	6.301	10904917	0.010	0.010
6) beta-BHC	6.473	4450723	0.010	0.010
7) delta-BHC	6.713	10558269	0.010	0.010
9) Heptachlor	7.025	11073989	0.010	0.010
10) Aldrin	7.516	10625797	0.010	0.010
12) Heptachlor epoxide	8.850	10024077	0.011	0.011
13) gamma-Chlordane	9.126	9912464	0.010	0.010
14) alpha-Chlordane	9.407	9583748	0.010	0.010
15) Endosulfan I	9.622	8866748	0.011	0.011
16) 4,4'-DDE	9.709	9267140	0.010	0.010
17) Dieldrin	10.058	9309421	0.011	0.011
20) Endrin	10.407	8220602	0.011	0.011
22) 4,4'-DDD	10.675	6253215	0.010	0.010
23) Endosulfan II	10.750	7968081	0.011	0.011
24) 4,4'-DDT	11.067	6134121	0.010	0.010
26) Endrin aldehyde	11.355	5410629	0.011	0.011
27) Methoxychlor	11.778	2623628	0.010	0.010
28) Endosulfan sulfate	11.906	6005264	0.010	0.010
29) Endrin ketone	12.217	6403785	0.010	0.010
30) Decachlorobiphenyl	13.426	4670964	0.010	0.010

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\008F0801.D
Lab Smp Id: AB3 G252
Inj Date : 08-MAR-2010 13:35
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB3 G252,,1,3
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 06:40 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 13:35   Cal File: 008F0801.D
Als bottle: 8   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.843	4.843	0.000	9548340	0.02500	0.02482		
4 alpha-BHC						CAS #: 319-84-6	
5.798	5.798	0.000	15880238	0.02500	0.02505		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.303	6.303	0.000	14167905	0.02500	0.02498		
6 beta-BHC						CAS #: 319-85-7	
6.473	6.473	0.000	5422131	0.02500	0.02447		
7 delta-BHC						CAS #: 319-86-8	
6.713	6.713	0.000	26315876	0.02500	0.02489		
9 Heptachlor						CAS #: 76-44-8	
7.026	7.026	0.000	25970788	0.02500	0.02376		
10 Aldrin						CAS #: 309-00-2	
7.516	7.516	0.000	10047151	0.02500	0.02516		
12 Heptachlor epoxide						CAS #: 1024-57-3	
8.850	8.850	0.000	23568911	0.02500	0.02529		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.129	9.129	0.000	7787318	0.02500	0.02460		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.407	9.407	0.000	8039904	0.02500	0.02487		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
9.708    9.708    0.000         8020778 0.02500  0.02510
--------------------------------------------------------------------------------
```

				AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)		
RT	EXP RT	DLT RT	RESPONSE			TARGET RANGE	RATIO
15 Endosulfan I						CAS #: 959-98-8	
9.621	9.621	0.000	20865305	0.02500	0.02537		
17 Dieldrin						CAS #: 60-57-1	
10.058	10.058	0.000	8932478	0.02500	0.02545		
20 Endrin						CAS #: 72-20-8	
10.408	10.408	0.000	19464525	0.02500	0.02522		
22 4,4'-DDD						CAS #: 72-54-8	
10.674	10.674	0.000	6599692	0.02500	0.02438		
23 Endosulfan II						CAS #: 33213-65-9	
10.748	10.748	0.000	7674217	0.02500	0.02529		
24 4,4'-DDT						CAS #: 50-29-3	
11.067	11.067	0.000	6770403	0.02500	0.02411		
26 Endrin aldehyde						CAS #: 7421-93-4	
11.355	11.355	0.000	12591829	0.02500	0.02458		
27 Methoxychlor						CAS #: 72-43-5	
11.777	11.777	0.000	6424362	0.02500	0.02497		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.906	11.906	0.000	6917105	0.02500	0.02451		
29 Endrin ketone						CAS #: 53494-70-5	
12.217	12.217	0.000	15224106	0.02500	0.02479		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.426	13.426	0.000	5857215	0.02500	0.02456		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\008F0801.D

Date : 08-MAR-2010 13:35

Client ID:

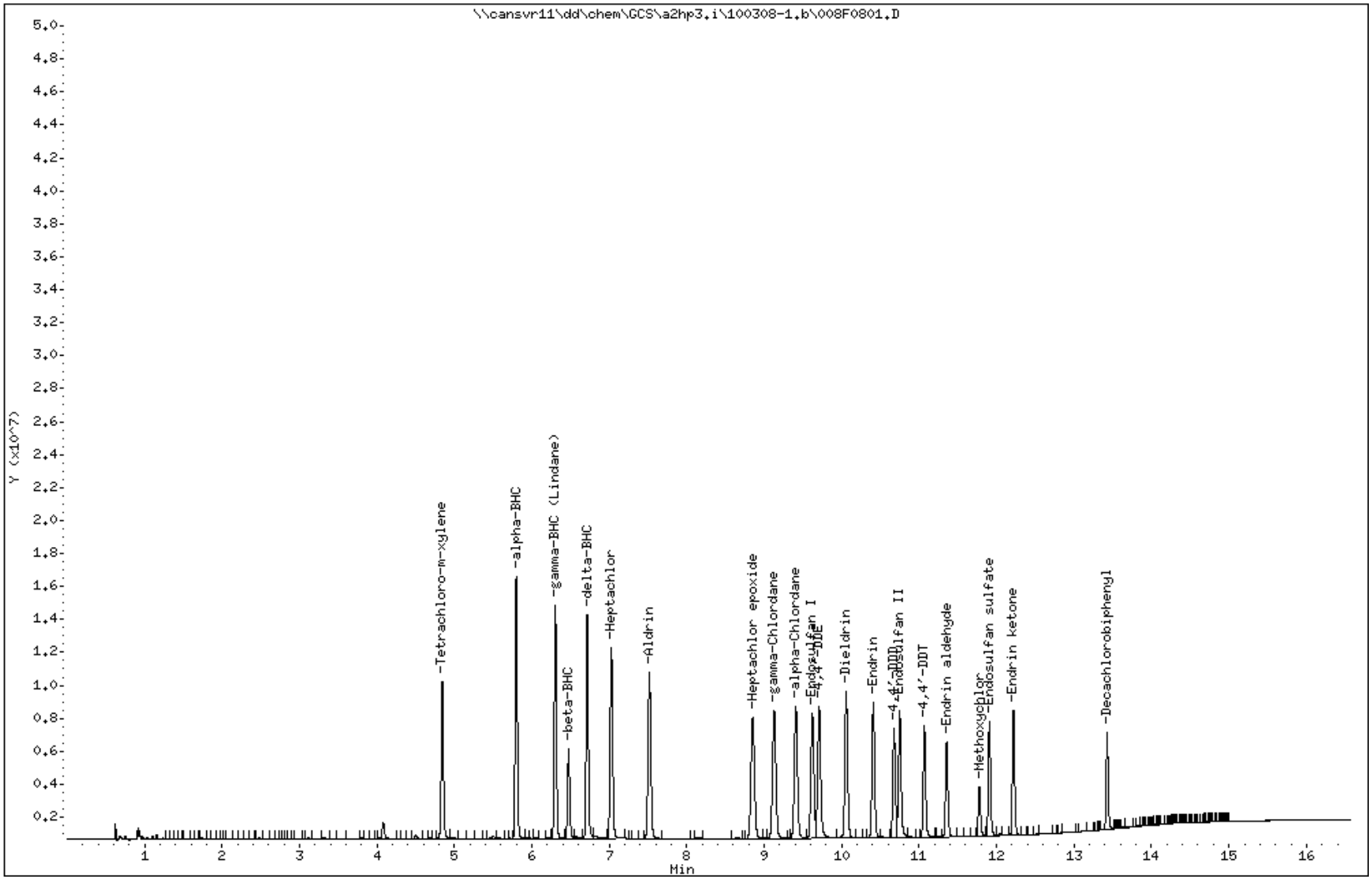
Instrument: a2hp3.i

Sample Info: AB3 G252,,1,3

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 13:35
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/008F0801.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.843	18565973	0.025	0.025
4) alpha-BHC	5.798	29795054	0.025	0.025
5) gamma-BHC (Lindane)	6.303	26781499	0.025	0.025
6) beta-BHC	6.474	10567864	0.024	0.024
7) delta-BHC	6.714	26315876	0.025	0.025
9) Heptachlor	7.026	25970788	0.024	0.024
10) Aldrin	7.516	25408723	0.025	0.025
12) Heptachlor epoxide	8.851	23568911	0.025	0.025
13) gamma-Chlordane	9.130	23898086	0.025	0.025
14) alpha-Chlordane	9.407	22844746	0.025	0.025
15) Endosulfan I	9.621	20865305	0.025	0.025
16) 4,4'-DDE	9.709	22498556	0.025	0.025
17) Dieldrin	10.058	22540831	0.025	0.025
20) Endrin	10.408	19464525	0.025	0.025
22) 4,4'-DDD	10.675	15162073	0.024	0.024
23) Endosulfan II	10.749	18424789	0.025	0.025
24) 4,4'-DDT	11.067	14921673	0.024	0.024
26) Endrin aldehyde	11.356	12591829	0.025	0.025
27) Methoxychlor	11.777	6424362	0.025	0.025
28) Endosulfan sulfate	11.906	14320152	0.025	0.025
29) Endrin ketone	12.217	15224106	0.025	0.025
30) Decachlorobiphenyl	13.426	11154495	0.025	0.025

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\010F1001.D
Lab Smp Id: AB5 G254
Inj Date : 08-MAR-2010 14:25
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB5 G254,,1,5
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 06:40 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 14:25   Cal File: 010F1001.D
Als bottle: 10   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.844	4.844	0.000	36163843	0.10000	0.09402		
4 alpha-BHC						CAS #: 319-84-6	
5.798	5.798	0.000	60442096	0.10000	0.09533		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.303	6.303	0.000	54617190	0.10000	0.09630		
6 beta-BHC						CAS #: 319-85-7	
6.474	6.474	0.000	20733004	0.10000	0.09357		
7 delta-BHC						CAS #: 319-86-8	
6.714	6.714	0.000	102359940	0.10000	0.09683		
9 Heptachlor						CAS #: 76-44-8	
7.028	7.028	0.000	120507150	0.10000	0.1103		
10 Aldrin						CAS #: 309-00-2	
7.517	7.517	0.000	37487501	0.10000	0.09386		
12 Heptachlor epoxide						CAS #: 1024-57-3	
8.852	8.852	0.000	84252297	0.10000	0.09042		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.128	9.128	0.000	30383360	0.10000	0.09600		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.409	9.409	0.000	30252686	0.10000	0.09359		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
9.709    9.709    0.000        30885174 0.10000  0.09666
-------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
9.622	9.622	0.000	74425102	0.10000	0.09048		
17 Dieldrin					CAS #: 60-57-1		
10.058	10.058	0.000	32641042	0.10000	0.09300		
20 Endrin					CAS #: 72-20-8		
10.408	10.408	0.000	70819529	0.10000	0.09177		
22 4,4'-DDD					CAS #: 72-54-8		
10.675	10.675	0.000	26582563	0.10000	0.09821		
23 Endosulfan II					CAS #: 33213-65-9		
10.749	10.749	0.000	27805437	0.10000	0.09163		
24 4,4'-DDT					CAS #: 50-29-3		
11.069	11.069	0.000	27719666	0.10000	0.09870		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.355	11.355	0.000	47202564	0.10000	0.09213		
27 Methoxychlor					CAS #: 72-43-5		
11.775	11.775	0.000	23209821	0.10000	0.09020		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.907	11.907	0.000	25926391	0.10000	0.09187		
29 Endrin ketone					CAS #: 53494-70-5		
12.217	12.217	0.000	56014343	0.10000	0.09120		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.426	13.426	0.000	21117491	0.10000	0.08856		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\010F1001.D

Date : 08-MAR-2010 14:25

Client ID:

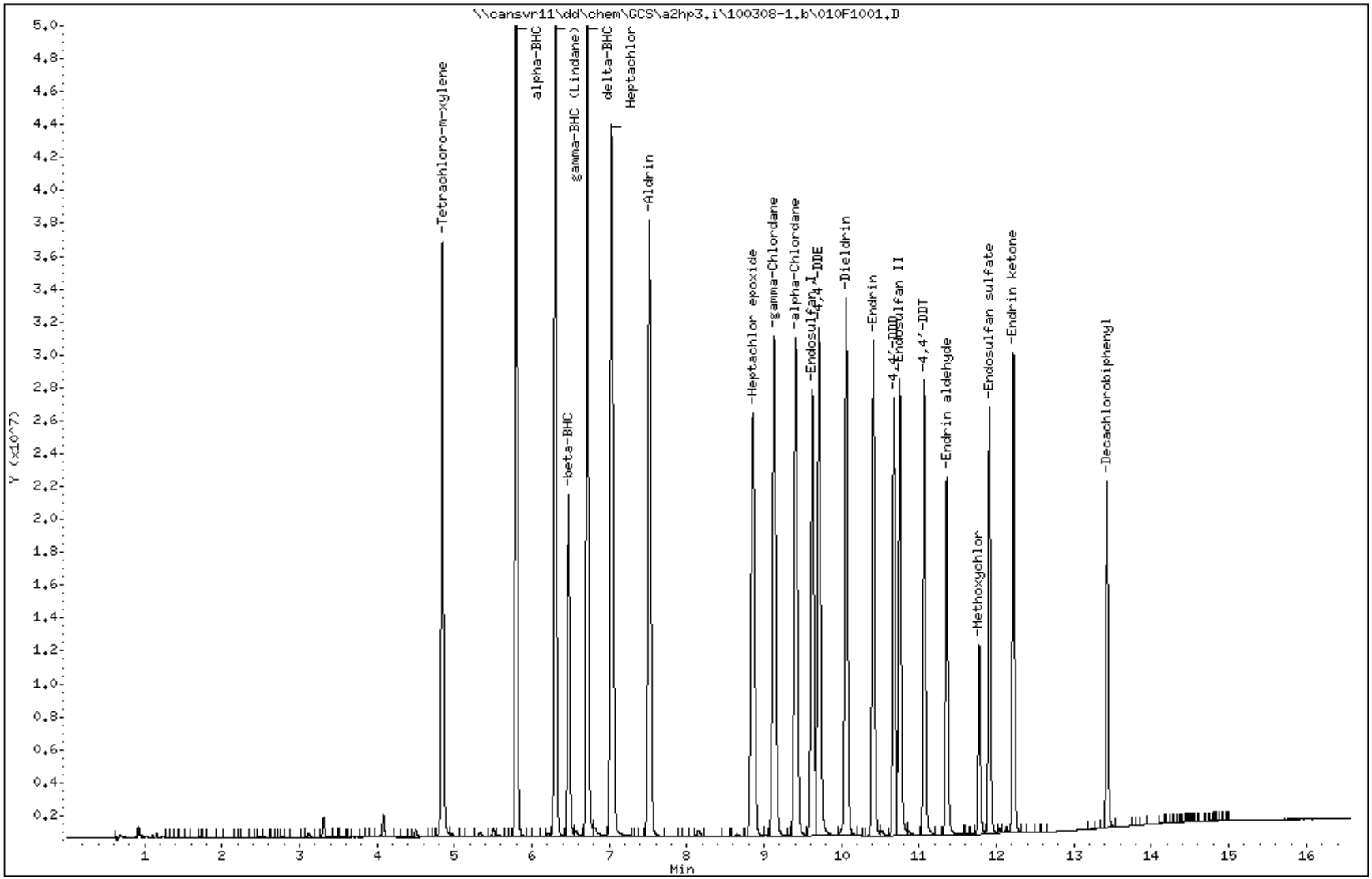
Instrument: a2hp3.i

Sample Info: AB5 G254,,1,5

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 14:25
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/010F1001.D
Lab Sample ID: AB5 G254
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.844	69904441	0.094	0.094
4) alpha-BHC	5.798	115091377	0.095	0.095
5) gamma-BHC (Lindane)	6.303	102964657	0.096	0.096
6) beta-BHC	6.474	40127454	0.094	0.094
7) delta-BHC	6.714	102359940	0.097	0.097
9) Heptachlor	7.028	120507150	0.110	0.110
10) Aldrin	7.517	95565156	0.094	0.094
12) Heptachlor epoxide	8.852	84252297	0.090	0.090
13) gamma-Chlordane	9.128	90568824	0.096	0.096
14) alpha-Chlordane	9.409	85998665	0.094	0.094
15) Endosulfan I	9.622	74425102	0.090	0.090
16) 4,4'-DDE	9.709	84760285	0.097	0.097
17) Dieldrin	10.058	82339531	0.093	0.093
20) Endrin	10.408	70819529	0.092	0.092
22) 4,4'-DDD	10.676	58866526	0.098	0.098
23) Endosulfan II	10.750	66216555	0.092	0.092
24) 4,4'-DDT	11.069	59041360	0.099	0.099
26) Endrin aldehyde	11.356	47202564	0.092	0.092
27) Methoxychlor	11.776	23209821	0.090	0.090
28) Endosulfan sulfate	11.907	52754286	0.092	0.092
29) Endrin ketone	12.217	56014343	0.091	0.091
30) Decachlorobiphenyl	13.427	38330076	0.089	0.089

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\011F1101.D
Lab Smp Id: AB6 G255
Inj Date : 08-MAR-2010 14:49
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB6 G255,,1,6
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 06:40 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43   Cal File: 015F1501.D
Als bottle: 11   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.842	4.842	0.000	69212035	0.20000	0.1799		
4 alpha-BHC						CAS #: 319-84-6	
5.797	5.797	0.000	120886426	0.20000	0.1907		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.302	6.302	0.000	106517542	0.20000	0.1878		
6 beta-BHC						CAS #: 319-85-7	
6.472	6.472	0.000	41021299	0.20000	0.1851		
7 delta-BHC						CAS #: 319-86-8	
6.712	6.712	0.000	203946687	0.20000	0.1929		
9 Heptachlor						CAS #: 76-44-8	
7.025	7.025	0.000	206006273	0.20000	0.1885		
10 Aldrin						CAS #: 309-00-2	
7.516	7.516	0.000	71158839	0.20000	0.1782		(M)
12 Heptachlor epoxide						CAS #: 1024-57-3	
8.850	8.850	0.000	157631011	0.20000	0.1692		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.127	9.127	0.000	59015571	0.20000	0.1865		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.407	9.407	0.000	60451332	0.20000	0.1870		

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   16 4,4'-DDE                                    CAS #: 72-55-9
9.707    9.707    0.000        62054990 0.20000   0.1942
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```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
9.620	9.620	0.000	140001502	0.20000	0.1702		
17 Dieldrin					CAS #: 60-57-1		
10.056	10.056	0.000	60583436	0.20000	0.1726		
20 Endrin					CAS #: 72-20-8		
10.407	10.407	0.000	135281215	0.20000	0.1753		
22 4,4'-DDD					CAS #: 72-54-8		
10.672	10.672	0.000	54589485	0.20000	0.2017		
23 Endosulfan II					CAS #: 33213-65-9		
10.748	10.748	0.000	53816852	0.20000	0.1773		
24 4,4'-DDT					CAS #: 50-29-3		
11.067	11.067	0.000	58806312	0.20000	0.2094		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.353	11.353	0.000	92972194	0.20000	0.1815		
27 Methoxychlor					CAS #: 72-43-5		
11.773	11.773	0.000	47725205	0.20000	0.1855		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.906	11.906	0.000	52742747	0.20000	0.1869		
29 Endrin ketone					CAS #: 53494-70-5		
12.217	12.217	0.000	113912177	0.20000	0.1855		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.426	13.426	0.000	46857691	0.20000	0.1965		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\011F1101.D

Page 1

Date : 08-MAR-2010 14:49

Client ID:

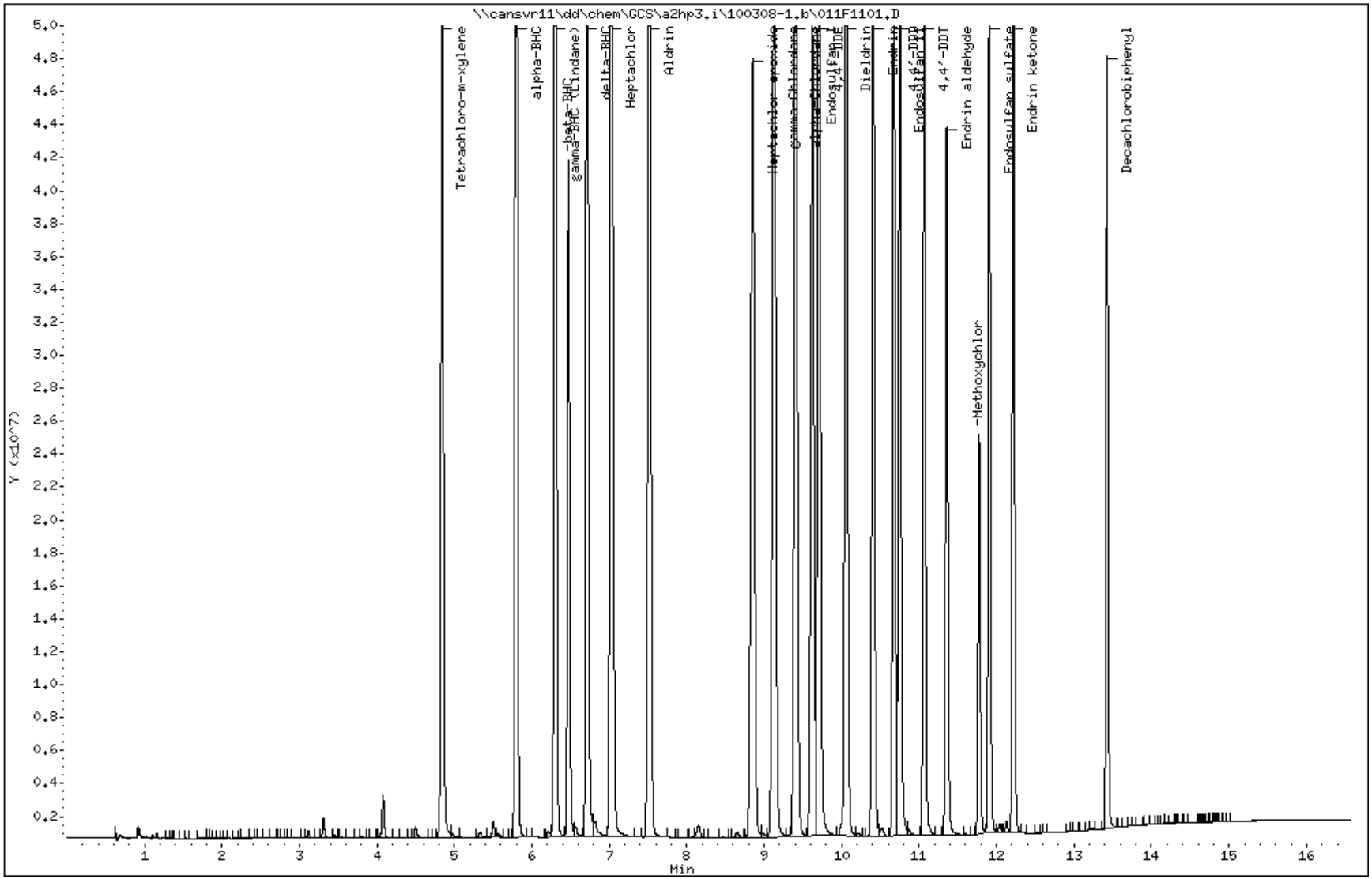
Instrument: a2hp3.i

Sample Info: AB6 G255,,1,6

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

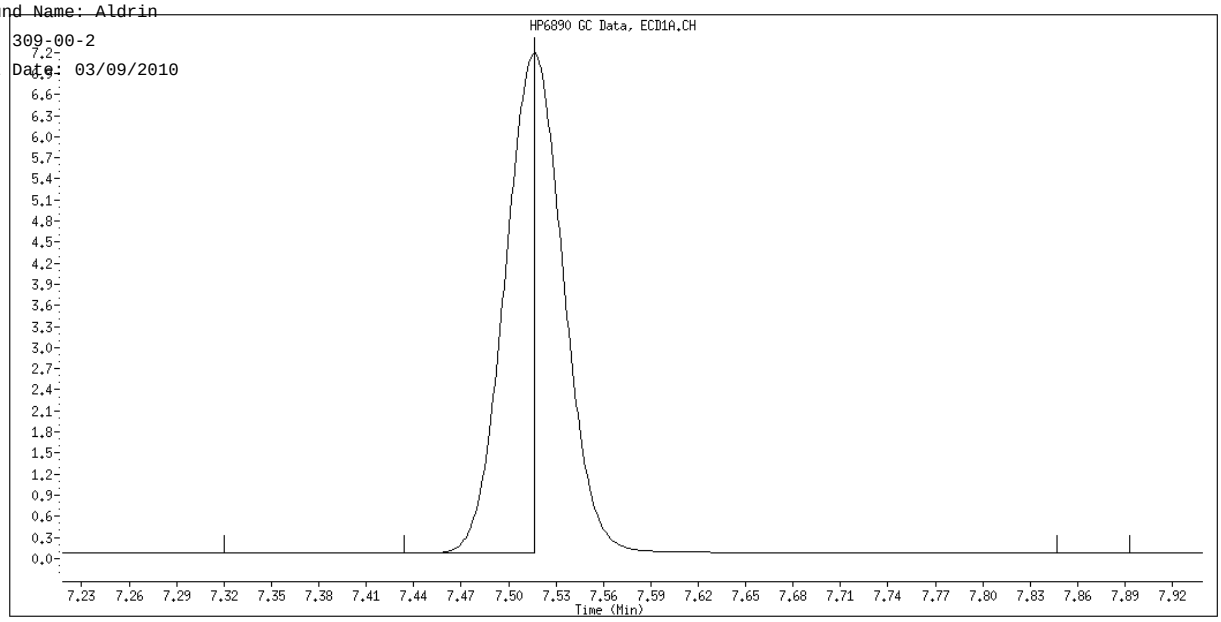


COMPOUNDS and EXP. RT REPORT

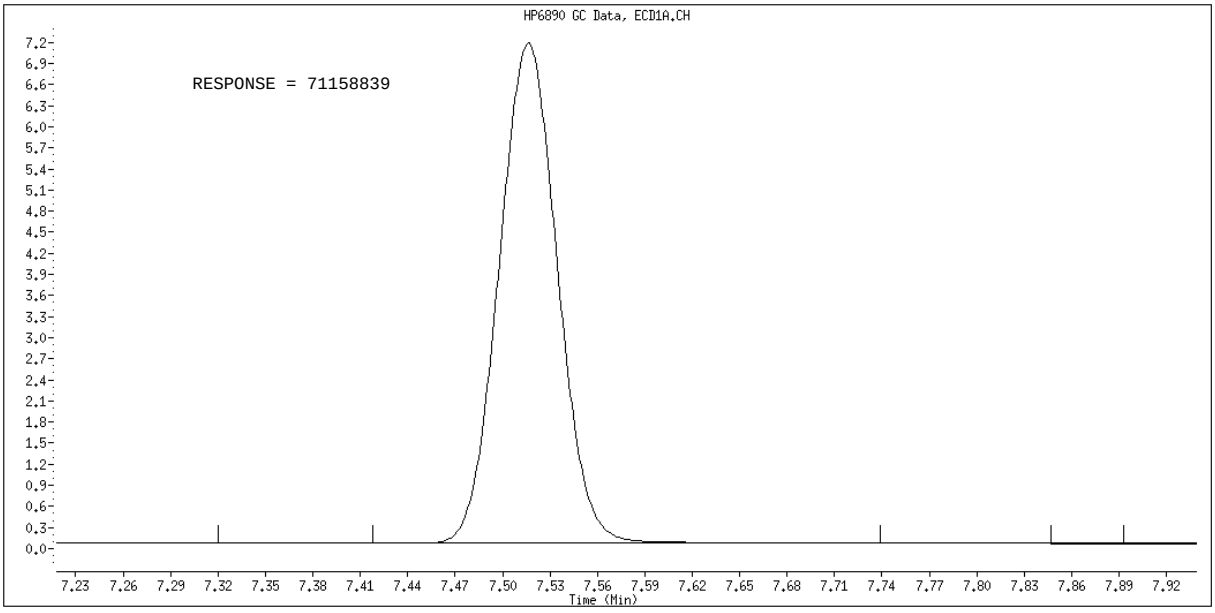
Operator: 093905 Date Acquired: 08-MAR-2010 14:49
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\011F1101.D
Lab Sample ID: AB6 G255
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.842	135273636	0.180	0.180
4) alpha-BHC	5.797	227847029	0.191	0.191
5) gamma-BHC (Lindane)	6.302	203447417	0.188	0.188
6) beta-BHC	6.472	78612698	0.185	0.185
7) delta-BHC	6.713	203946687	0.193	0.193
9) Heptachlor	7.025	206006273	0.189	0.189
10) Aldrin	7.516	183224960	0.178	0.178
12) Heptachlor epoxide	8.850	157631011	0.169	0.169
13) gamma-Chlordane	9.127	179893878	0.186	0.186
14) alpha-Chlordane	9.407	169890193	0.187	0.187
15) Endosulfan I	9.620	140001502	0.170	0.170
16) 4,4'-DDE	9.708	168490983	0.194	0.194
17) Dieldrin	10.056	156949628	0.173	0.173
20) Endrin	10.407	135281215	0.175	0.175
22) 4,4'-DDD	10.673	120038042	0.202	0.202
23) Endosulfan II	10.749	126959730	0.177	0.177
24) 4,4'-DDT	11.067	123533617	0.209	0.209
26) Endrin aldehyde	11.354	92972194	0.181	0.181
27) Methoxychlor	11.774	47725205	0.185	0.185
28) Endosulfan sulfate	11.906	104581923	0.187	0.187
29) Endrin ketone	12.217	113912177	0.185	0.185
30) Decachlorobiphenyl	13.426	83897539	0.197	0.197

Data File Name: 011F1101.D
Inj. Date and Time: 08-MAR-2010 14:49
Instrument ID: a2hp3.i
Client ID:
Compound Name: Aldrin
CAS #: 309-00-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\013F1301.D
Lab Smp Id: AB4 G253
Inj Date : 08-MAR-2010 15:39
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB4 G253,,1,4
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 06:40 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39   Cal File: 013F1301.D
Als bottle: 13   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.842	4.842	0.000	19818875	0.05000	0.05153		
4 alpha-BHC						CAS #: 319-84-6	
5.797	5.797	0.000	32897136	0.05000	0.05189		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.302	6.302	0.000	29440220	0.05000	0.05191		
6 beta-BHC						CAS #: 319-85-7	
6.473	6.473	0.000	11331340	0.05000	0.05114		
7 delta-BHC						CAS #: 319-86-8	
6.713	6.713	0.000	55213634	0.05000	0.05223		
9 Heptachlor						CAS #: 76-44-8	
7.025	7.025	0.000	52502594	0.05000	0.04804		
10 Aldrin						CAS #: 309-00-2	
7.517	7.517	0.000	20583527	0.05000	0.05153		
12 Heptachlor epoxide						CAS #: 1024-57-3	
8.851	8.851	0.000	47471978	0.05000	0.05094		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.128	9.128	0.000	16351761	0.05000	0.05166		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.407	9.407	0.000	16585591	0.05000	0.05131		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
9.708    9.708    0.000        16461700 0.05000  0.05152
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```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
9.622	9.622	0.000	41902697	0.05000	0.05094		
17 Dieldrin					CAS #: 60-57-1		
10.057	10.057	0.000	18150031	0.05000	0.05171		
20 Endrin					CAS #: 72-20-8		
10.407	10.407	0.000	39388987	0.05000	0.05104		
22 4,4'-DDD					CAS #: 72-54-8		
10.675	10.675	0.000	13963872	0.05000	0.05159		
23 Endosulfan II					CAS #: 33213-65-9		
10.749	10.749	0.000	15505826	0.05000	0.05110		
24 4,4'-DDT					CAS #: 50-29-3		
11.067	11.067	0.000	14354603	0.05000	0.05111		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.355	11.355	0.000	25881241	0.05000	0.05051		
27 Methoxychlor					CAS #: 72-43-5		
11.777	11.777	0.000	12728653	0.05000	0.04947		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.907	11.907	0.000	14250290	0.05000	0.05050		
29 Endrin ketone					CAS #: 53494-70-5		
12.217	12.217	0.000	30744507	0.05000	0.05006		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.427	13.427	0.000	11855182	0.05000	0.04972		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\013F1301.D

Date : 08-MAR-2010 15:39

Client ID:

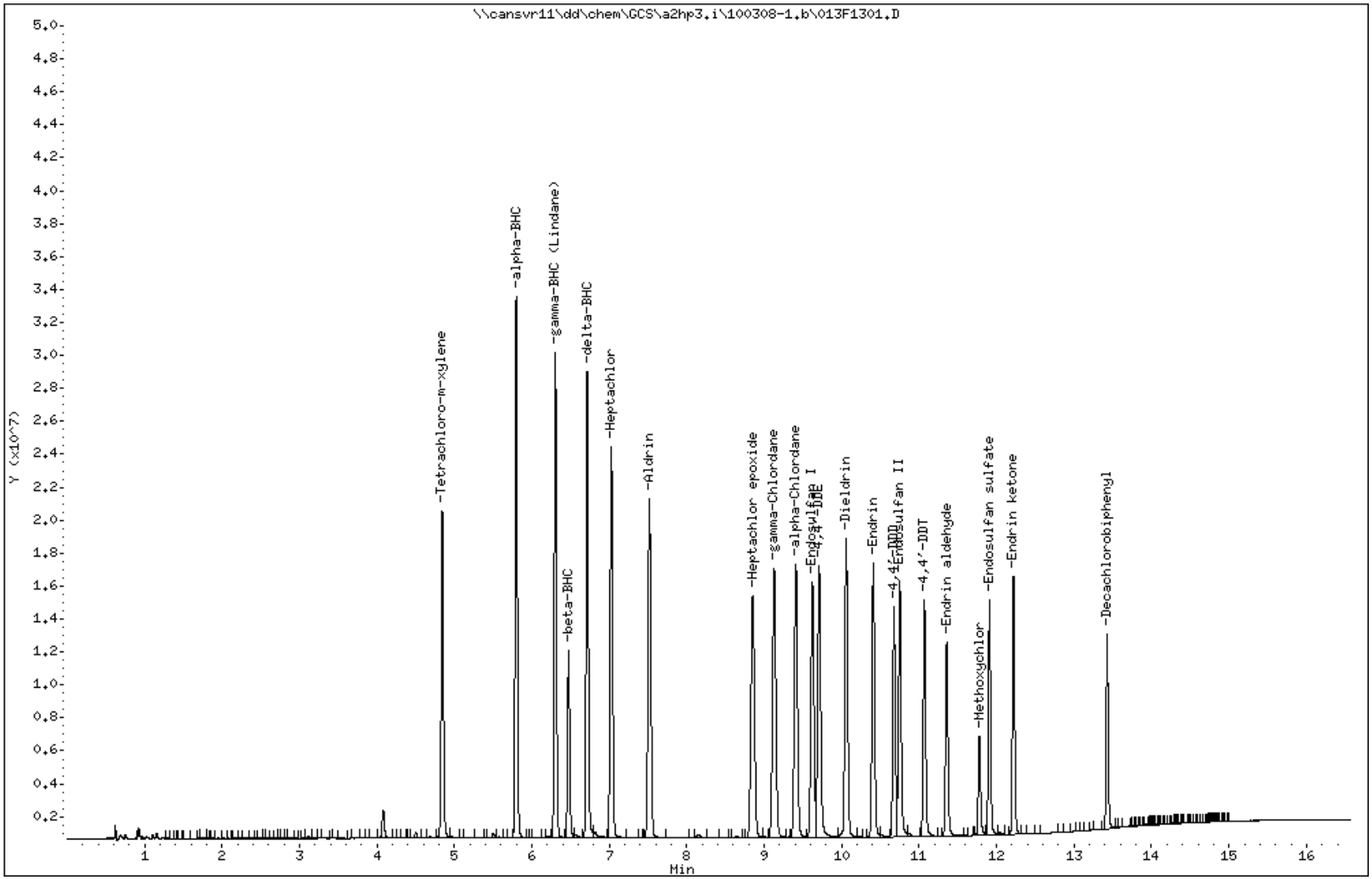
Instrument: a2hp3.i

Sample Info: AB4 G253,,1,4

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 15:39
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/013F1301.D
Lab Sample ID: AB4 G253
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.843	38179450	0.052	0.052
4) alpha-BHC	5.798	62360656	0.052	0.052
5) gamma-BHC (Lindane)	6.303	55874670	0.052	0.052
6) beta-BHC	6.474	21884629	0.051	0.051
7) delta-BHC	6.714	55213634	0.052	0.052
9) Heptachlor	7.025	52502594	0.048	0.048
10) Aldrin	7.517	52415566	0.052	0.052
12) Heptachlor epoxide	8.851	47471978	0.051	0.051
13) gamma-Chlordane	9.129	49506070	0.052	0.052
14) alpha-Chlordane	9.408	46997423	0.051	0.051
15) Endosulfan I	9.623	41902697	0.051	0.051
16) 4,4'-DDE	9.709	46161839	0.052	0.052
17) Dieldrin	10.058	45842388	0.052	0.052
20) Endrin	10.407	39388987	0.051	0.051
22) 4,4'-DDD	10.675	31114190	0.052	0.052
23) Endosulfan II	10.750	36947315	0.051	0.051
24) 4,4'-DDT	11.068	31214351	0.051	0.051
26) Endrin aldehyde	11.355	25881241	0.051	0.051
27) Methoxychlor	11.777	12728653	0.049	0.049
28) Endosulfan sulfate	11.908	29022498	0.050	0.050
29) Endrin ketone	12.218	30744507	0.050	0.050
30) Decachlorobiphenyl	13.427	22082014	0.050	0.050

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\014F1401.D Page 1
Report Date: 09-Mar-2010 07:17

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp3.i Injection Date: 08-MAR-2010 16:04
Lab File ID: 014F1401.D Init. Cal. Date(s): 11-FEB-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 09:19 15:39
Lab Sample ID: ICV E048 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	384629701	++++	++++	0.000	++++	15.00000	Averaged	<-
4 alpha-BHC	634025555	699456880	699456880	0.010	-10.31998	15.00000	Averaged	
5 gamma-BHC (Lindane)	567138418	623836040	623836040	0.010	-9.99714	15.00000	Averaged	
6 beta-BHC	221584996	219860200	219860200	0.010	0.77839	15.00000	Averaged	
7 delta-BHC	1.057e+09	1.170e+09	1.170e+09	0.010	-10.67057	15.00000	Averaged	
9 Heptachlor	1.093e+09	1.113e+09	1.113e+09	0.010	-1.87182	15.00000	Averaged	
10 Aldrin	399394664	439077280	439077280	0.010	-9.93569	15.00000	Averaged	
12 Heptachlor epoxide	931835754	1.030e+09	1.030e+09	0.010	-10.51875	15.00000	Averaged	
13 gamma-Chlordane	316493599	343638240	343638240	0.010	-8.57668	15.00000	Averaged	
14 alpha-Chlordane	323247083	355185960	355185960	0.010	-9.88064	15.00000	Averaged	
16 4,4'-DDE	898056364	960617680	960617680	0.010	-6.96630	15.00000	Averaged	
15 Endosulfan I	822504312	915321360	915321360	0.010	-11.28469	15.00000	Averaged	
17 Dieldrin	350990657	393699160	393699160	0.010	-12.16799	15.00000	Averaged	
20 Endrin	771738484	851298640	851298640	0.010	-10.30921	15.00000	Averaged	
22 4,4'-DDD	614122348	681424880	681424880	0.010	-10.95914	15.00000	Averaged	
23 Endosulfan II	303461172	329206680	329206680	0.010	-8.48395	15.00000	Averaged	
24 4,4'-DDT	613713821	600264120	600264120	0.010	2.19153	15.00000	Averaged	
26 Endrin aldehyde	512352748	537068000	537068000	0.010	-4.82387	15.00000	Averaged	
27 Methoxychlor	257311429	265531640	265531640	0.010	-3.19465	15.00000	Averaged	
28 Endosulfan sulfate	282209341	303577520	303577520	0.010	-7.57175	15.00000	Averaged	
29 Endrin ketone	614171466	626298040	626298040	0.010	-1.97446	15.00000	Averaged	
$ 30 Decachlorobiphenyl	238443684	189000	189000	0.010	100	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 12.01895
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\014F1401.D
Lab Smp Id: ICV E048
Inj Date : 08-MAR-2010 16:04
Operator : 093905   Inst ID: a2hp3.i
Smp Info : ICV E048
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 07:16 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43   Cal File: 015F1501.D
Als bottle: 14   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
Peaks not detected for Quant. or Qual. signal(s).								
4 alpha-BHC						CAS #: 319-84-6		
5.798	5.798	0.000	17486422	0.02500	0.02758			
5 gamma-BHC (Lindane)						CAS #: 58-89-9		
6.303	6.303	0.000	15595901	0.02500	0.02750			
6 beta-BHC						CAS #: 319-85-7		
6.474	6.474	0.000	5496505	0.02500	0.02480			
7 delta-BHC						CAS #: 319-86-8		
6.714	6.714	0.000	29246865	0.02500	0.02767			
9 Heptachlor						CAS #: 76-44-8		
7.026	7.026	0.000	27831658	0.02500	0.02547			
10 Aldrin						CAS #: 309-00-2		
7.517	7.517	0.000	10976932	0.02500	0.02748			(M)
12 Heptachlor epoxide						CAS #: 1024-57-3		
8.851	8.851	0.000	25746330	0.02500	0.02763			
13 gamma-Chlordane						CAS #: 5103-74-2		
9.128	9.128	0.000	8590956	0.02500	0.02714			

```
   14 alpha-Chlordane                              CAS #: 5103-71-9
9.408    9.408    0.000         8879649 0.02500  0.02747
--------------------------------------------------------------------------------
   16 4,4'-DDE                                     CAS #: 72-55-9
9.708    9.708    0.000        24015442 0.02500  0.02674
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
9.622	9.622	0.000	22883034	0.02500	0.02782		
17 Dieldrin					CAS #: 60-57-1		
10.059	10.059	0.000	9842479	0.02500	0.02804		
20 Endrin					CAS #: 72-20-8		
10.407	10.407	0.000	21282466	0.02500	0.02758		
22 4,4'-DDD					CAS #: 72-54-8		
10.676	10.676	0.000	17035622	0.02500	0.02774		
23 Endosulfan II					CAS #: 33213-65-9		
10.750	10.750	0.000	8230167	0.02500	0.02712		
24 4,4'-DDT					CAS #: 50-29-3		
11.069	11.069	0.000	15006603	0.02500	0.02445		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.356	11.356	0.000	13426700	0.02500	0.02620		
27 Methoxychlor					CAS #: 72-43-5		
11.778	11.778	0.000	6638291	0.02500	0.02580		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.908	11.908	0.000	7589438	0.02500	0.02689		
29 Endrin ketone					CAS #: 53494-70-5		
12.219	12.219	0.000	15657451	0.02500	0.02549		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.444	13.444	0.000	4725	0.02500	0.00001982		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\014F1401.D

Page 1

Date : 08-MAR-2010 16:04

Client ID:

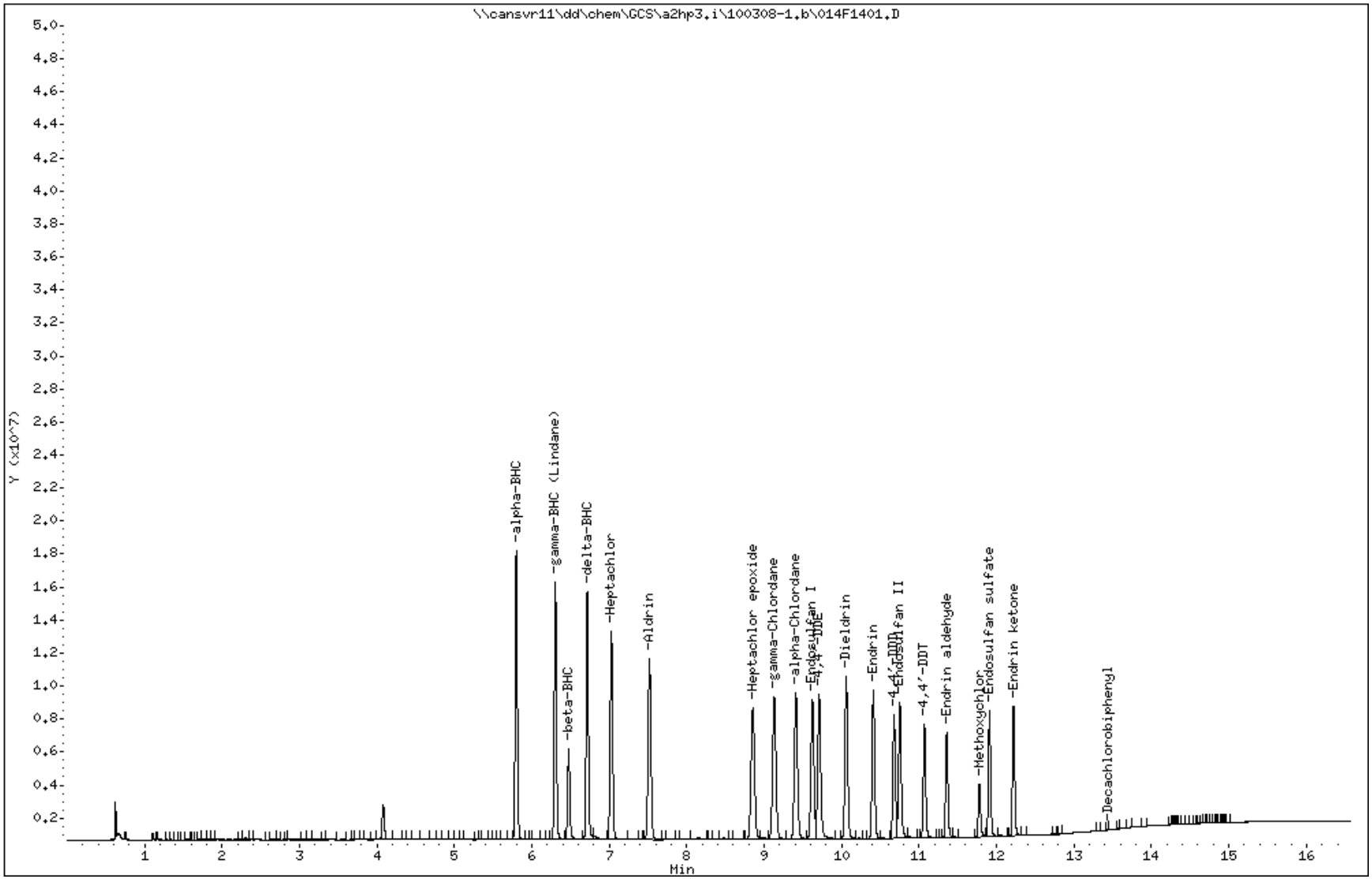
Instrument: a2hp3.i

Sample Info: ICV E048

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

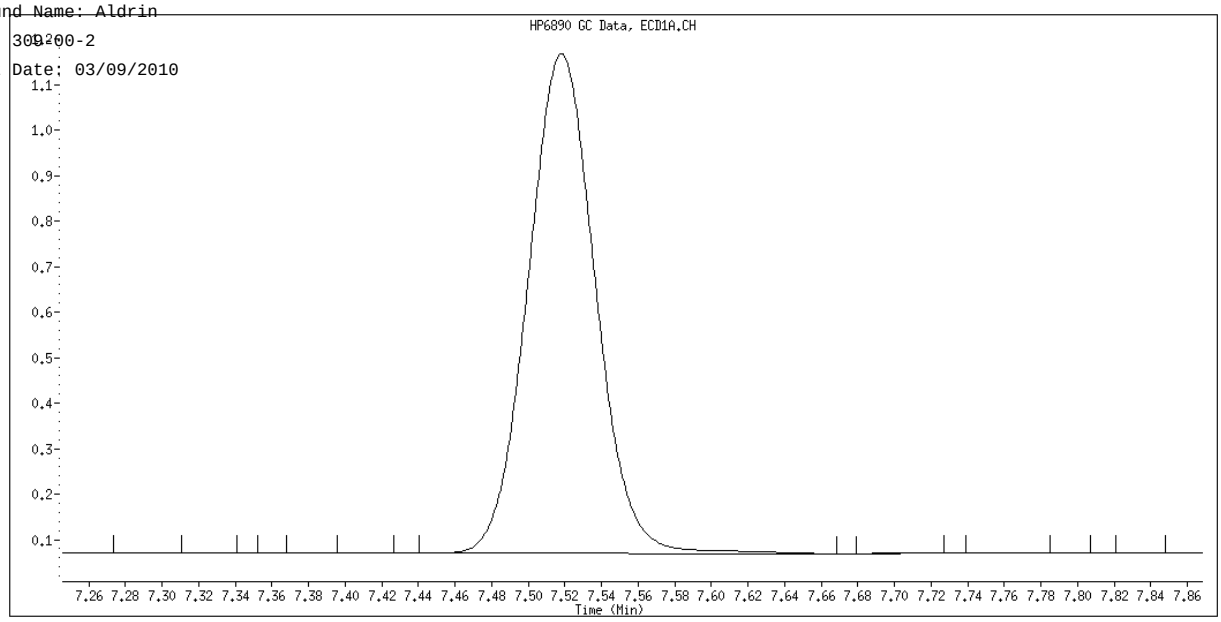


COMPOUNDS and EXP. RT REPORT

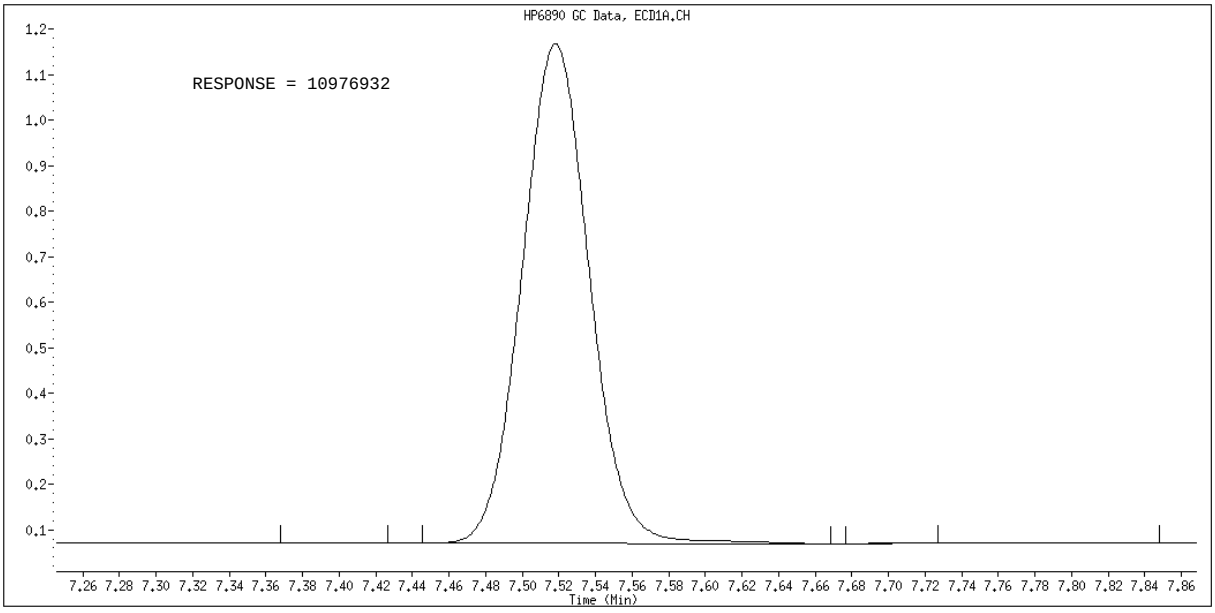
Operator: 093905 Date Acquired: 08-MAR-2010 16:04
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\014F1401.D
Lab Sample ID: ICV E048
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 4.842		
4) alpha-BHC	5.798	32743807	0.028	0.028
5) gamma-BHC (Lindane)	6.303	29349519	0.027	0.027
6) beta-BHC	6.475	10980753	0.025	0.025
7) delta-BHC	6.714	29246865	0.028	0.028
9) Heptachlor	7.027	27831658	0.025	0.025
10) Aldrin	7.517	28036845	0.027	0.027
12) Heptachlor epoxide	8.852	25746330	0.028	0.028
13) gamma-Chlordane	9.128	26401347	0.027	0.027
14) alpha-Chlordane	9.408	25293544	0.027	0.027
15) Endosulfan I	9.622	22883034	0.028	0.028
16) 4,4'-DDE	9.708	24015442	0.027	0.027
17) Dieldrin	10.059	24384135	0.028	0.028
20) Endrin	10.407	21282466	0.028	0.028
22) 4,4'-DDD	10.677	17035622	0.028	0.028
23) Endosulfan II	10.751	19787225	0.027	0.027
24) 4,4'-DDT	11.069	15006603	0.024	0.024
26) Endrin aldehyde	11.357	13426700	0.026	0.026
27) Methoxychlor	11.778	6638291	0.026	0.026
28) Endosulfan sulfate	11.908	15436877	0.027	0.027
29) Endrin ketone	12.219	15657451	0.025	0.025
30) Decachlorobiphenyl	13.444	8650	0.000	0.000

Data File Name: 014F1401.D
Inj. Date and Time: 08-MAR-2010 16:04
Instrument ID: a2hp3.i
Client ID:
Compound Name: Aldrin
CAS #: 309-00-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\006F0601.D
Lab Smp Id: AB1 G250
Inj Date : 08-MAR-2010 12:45
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB1 G250,,1,1
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:35 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 12:45 Cal File: 006F0601.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.694	5.694	0.000	484322	0.00500	0.004894		
4 alpha-BHC						CAS #: 319-84-6	
6.772	6.772	0.000	669936	0.00500	0.004284		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.406	7.406	0.000	297115	0.00500	0.004397		
6 beta-BHC						CAS #: 319-85-7	
7.620	7.620	0.000	125244	0.00500	0.005012		
7 delta-BHC						CAS #: 319-86-8	
8.235	8.235	0.000	564774	0.00500	0.004228		
8 Heptachlor						CAS #: 76-44-8	
8.314	8.314	0.000	656321	0.00500	0.004671		
10 Aldrin						CAS #: 309-00-2	
9.062	9.062	0.000	598190	0.00500	0.004590		
12 Heptachlor epoxide						CAS #: 1024-57-3	
10.220	10.220	0.000	245634	0.00500	0.004782		
13 gamma-Chlordane						CAS #: 5103-74-2	
10.535	10.535	0.000	248480	0.00500	0.004650		
14 alpha-Chlordane						CAS #: 5103-71-9	
10.767	10.767	0.000	254040	0.00500	0.004737		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
11.096  11.096    0.000          441094 0.00500  0.004519
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
15 Endosulfan I						CAS #: 959-98-8		
10.818	10.818	0.000	514764	0.00500	0.004883			
17 Dieldrin						CAS #: 60-57-1		
11.218	11.218	0.000	500803	0.00500	0.004625			
20 Endrin						CAS #: 72-20-8		
11.614	11.614	0.000	238973	0.00500	0.004602			(M)
22 4,4'-DDD						CAS #: 72-54-8		
11.861	11.861	0.000	308150	0.00500	0.004442			
23 Endosulfan II						CAS #: 33213-65-9		
11.899	11.899	0.000	237531	0.00500	0.004847			
24 4,4'-DDT						CAS #: 50-29-3		
12.234	12.234	0.000	329179	0.00500	0.004597			
25 Endrin aldehyde						CAS #: 7421-93-4		
12.328	12.328	0.000	179318	0.00500	0.004863			
26 Endosulfan sulfate						CAS #: 1031-07-8		
12.654	12.654	0.000	211061	0.00500	0.004907			
28 Methoxychlor						CAS #: 72-43-5		
13.043	13.043	0.000	94645	0.00500	0.005045			
29 Endrin ketone						CAS #: 53494-70-5		
13.230	13.230	0.000	244669	0.00500	0.004820			
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3		
14.693	14.693	0.000	152615	0.00500	0.005663			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\006F0601.D

Date : 08-MAR-2010 12:45

Client ID:

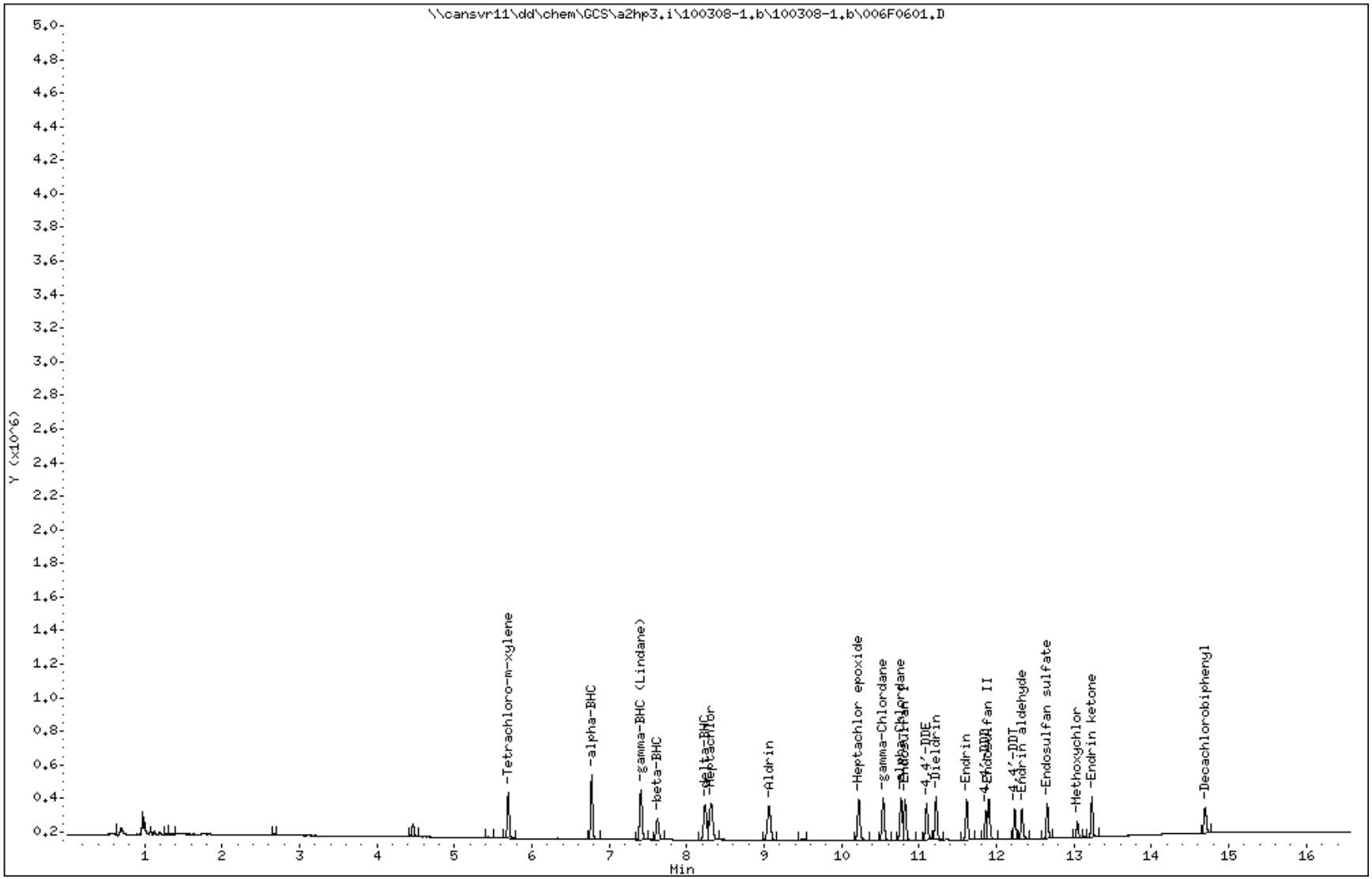
Instrument: a2hp3.i

Sample Info: AB1 G250,,1,1

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

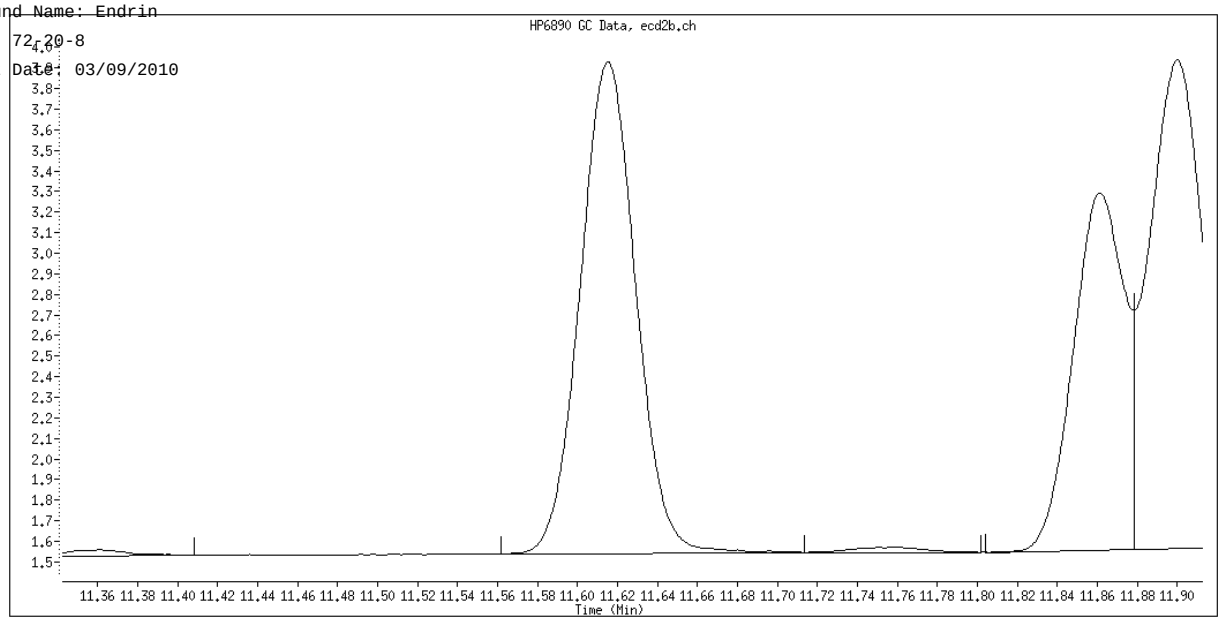


COMPOUNDS and EXP. RT REPORT

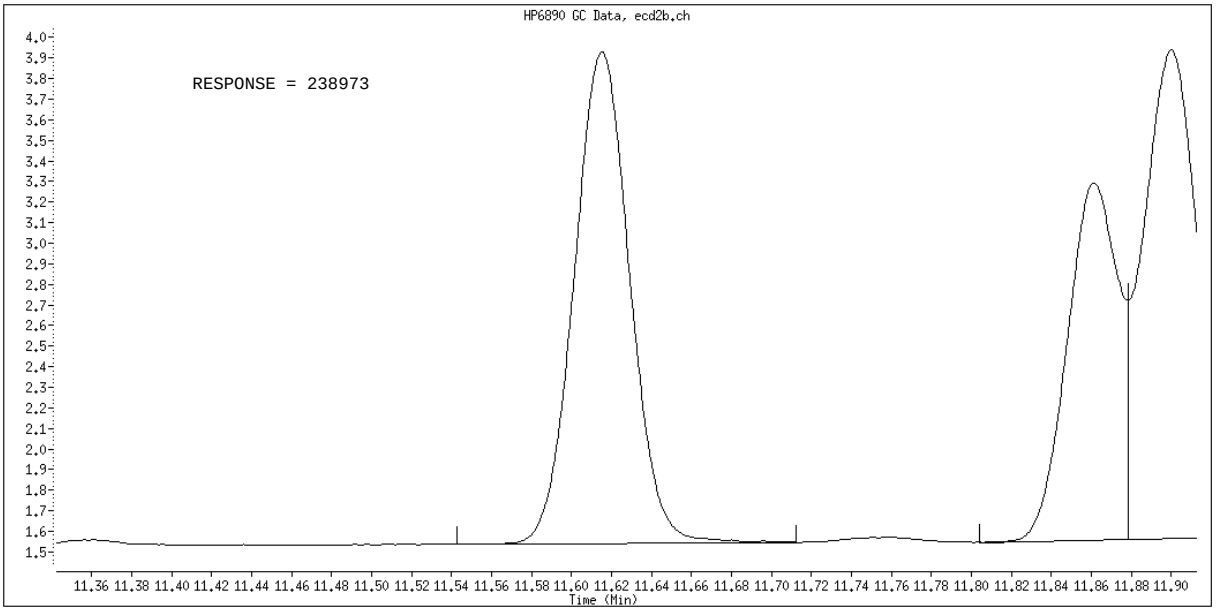
Operator: 093905 Date Acquired: 08-MAR-2010 12:45
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/006F0601.D
Lab Sample ID: AB1 G250
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.694	484322	0.005	0.005
4) alpha-BHC	6.772	669936	0.004	0.004
5) gamma-BHC (Lindane)	7.407	630982	0.004	0.004
6) beta-BHC	7.621	301917	0.005	0.005
7) delta-BHC	8.236	564774	0.004	0.004
8) Heptachlor	8.314	656321	0.005	0.005
10) Aldrin	9.062	598190	0.005	0.005
12) Heptachlor epoxide	10.221	564393	0.005	0.005
13) gamma-Chlordane	10.536	541731	0.005	0.005
14) alpha-Chlordane	10.767	531840	0.005	0.005
15) Endosulfan I	10.818	514764	0.005	0.005
16) 4,4'-DDE	11.097	441094	0.005	0.005
17) Dieldrin	11.218	500803	0.005	0.005
20) Endrin	11.615	462962	0.005	0.005
22) 4,4'-DDD	11.862	308150	0.004	0.004
23) Endosulfan II	11.900	482408	0.005	0.005
24) 4,4'-DDT	12.235	329179	0.005	0.005
25) Endrin aldehyde	12.328	343289	0.005	0.005
26) Endosulfan sulfate	12.654	379447	0.005	0.005
28) Methoxychlor	13.043	173153	0.005	0.005
29) Endrin ketone	13.231	420087	0.005	0.005
30) Decachlorobiphenyl	14.693	341843	0.006	0.006

Data File Name: 006F0601.D
Inj. Date and Time: 08-MAR-2010 12:45
Instrument ID: a2hp3.i
Client ID:
Compound Name: Endrin
CAS #: 72-20-8
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\007F0701.D
Lab Smp Id: AB2 G251
Inj Date : 08-MAR-2010 13:10
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB2 G251,,1,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:46 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 13:10 Cal File: 007F0701.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.694	5.694	0.000	962520	0.01000	0.009727		
4 alpha-BHC						CAS #: 319-84-6	
6.771	6.771	0.000	1404533	0.01000	0.008981		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.406	7.406	0.000	610782	0.01000	0.009039		
6 beta-BHC						CAS #: 319-85-7	
7.619	7.619	0.000	244365	0.01000	0.009779		
7 delta-BHC						CAS #: 319-86-8	
8.234	8.234	0.000	1162374	0.01000	0.008701		
8 Heptachlor						CAS #: 76-44-8	
8.312	8.312	0.000	1318486	0.01000	0.009383		
10 Aldrin						CAS #: 309-00-2	
9.061	9.061	0.000	1210174	0.01000	0.009286		
12 Heptachlor epoxide						CAS #: 1024-57-3	
10.221	10.221	0.000	487379	0.01000	0.009489		
13 gamma-Chlordane						CAS #: 5103-74-2	
10.535	10.535	0.000	494104	0.01000	0.009248		
14 alpha-Chlordane						CAS #: 5103-71-9	
10.767	10.767	0.000	509308	0.01000	0.009497		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
11.097  11.097    0.000          882890 0.01000  0.009046
------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
15 Endosulfan I						CAS #: 959-98-8	
10.817	10.817	0.000	1010655	0.01000	0.009586		
17 Dieldrin						CAS #: 60-57-1	
11.217	11.217	0.000	991827	0.01000	0.009161		
20 Endrin						CAS #: 72-20-8	
11.615	11.615	0.000	485606	0.01000	0.009350		
22 4,4'-DDD						CAS #: 72-54-8	
11.861	11.861	0.000	623342	0.01000	0.008985		
23 Endosulfan II						CAS #: 33213-65-9	
11.899	11.899	0.000	460594	0.01000	0.009398		
24 4,4'-DDT						CAS #: 50-29-3	
12.234	12.234	0.000	649482	0.01000	0.009070		
25 Endrin aldehyde						CAS #: 7421-93-4	
12.327	12.327	0.000	347558	0.01000	0.009426		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.654	12.654	0.000	408242	0.01000	0.009491		
28 Methoxychlor						CAS #: 72-43-5	
13.042	13.042	0.000	182090	0.01000	0.009706		
29 Endrin ketone						CAS #: 53494-70-5	
13.231	13.231	0.000	471639	0.01000	0.009292		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.692	14.692	0.000	285120	0.01000	0.01058		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\007F0701.D

Date : 08-MAR-2010 13:10

Client ID:

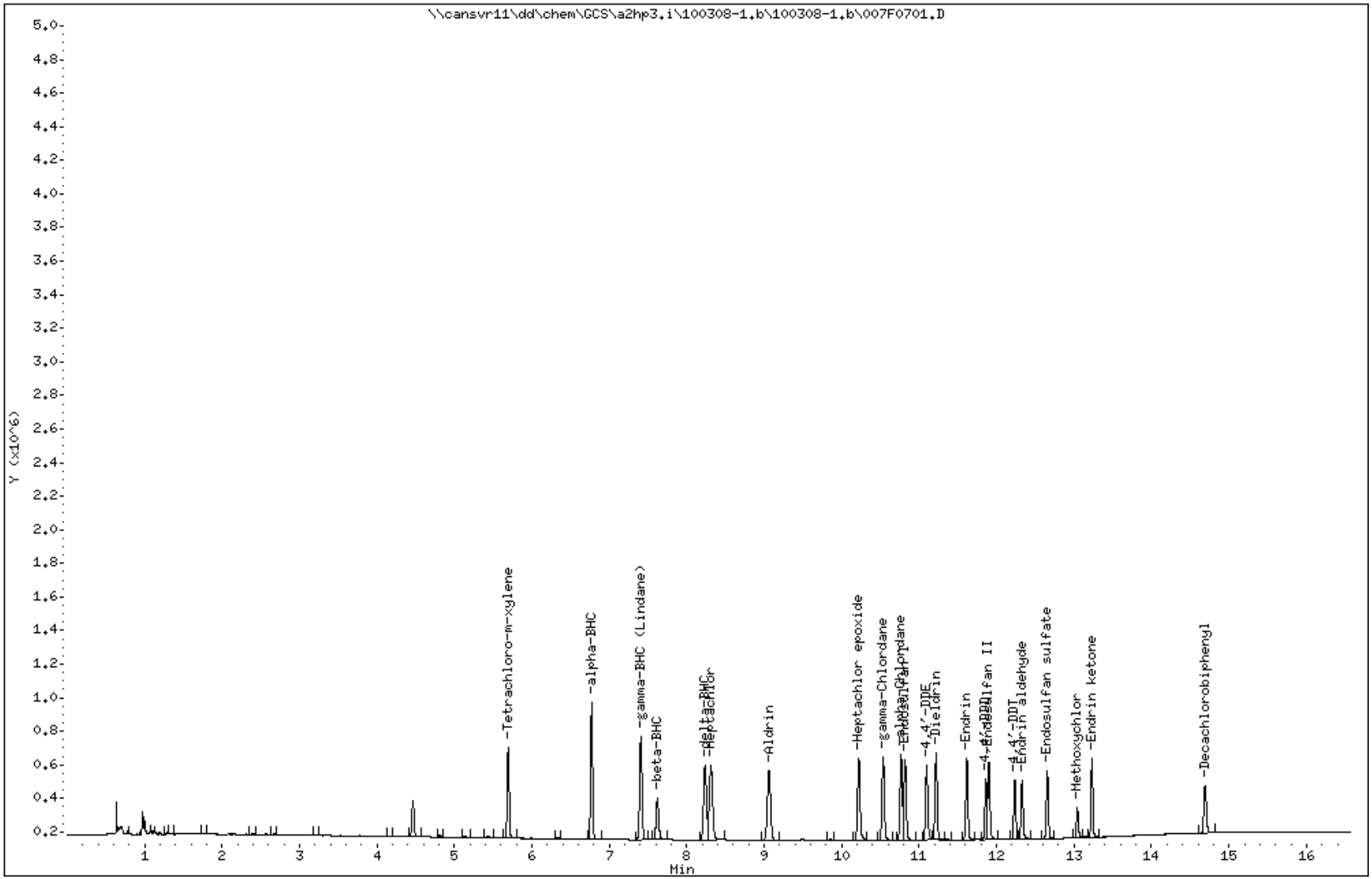
Instrument: a2hp3.i

Sample Info: AB2 G251,,1,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 13:10
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/007F0701.D
Lab Sample ID: AB2 G251
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.695	962520	0.010	0.010
4) alpha-BHC	6.771	1404533	0.009	0.009
5) gamma-BHC (Lindane)	7.406	1285213	0.009	0.009
6) beta-BHC	7.620	585225	0.010	0.010
7) delta-BHC	8.235	1162374	0.009	0.009
8) Heptachlor	8.312	1318486	0.009	0.009
10) Aldrin	9.061	1210174	0.009	0.009
12) Heptachlor epoxide	10.221	1126772	0.009	0.009
13) gamma-Chlordane	10.535	1070479	0.009	0.009
14) alpha-Chlordane	10.768	1050205	0.009	0.009
15) Endosulfan I	10.818	1010655	0.010	0.010
16) 4,4'-DDE	11.097	882890	0.009	0.009
17) Dieldrin	11.218	991827	0.009	0.009
20) Endrin	11.615	904542	0.009	0.009
22) 4,4'-DDD	11.861	623342	0.009	0.009
23) Endosulfan II	11.900	927568	0.009	0.009
24) 4,4'-DDT	12.235	649482	0.009	0.009
25) Endrin aldehyde	12.328	658254	0.009	0.009
26) Endosulfan sulfate	12.655	728574	0.009	0.009
28) Methoxychlor	13.042	328143	0.010	0.010
29) Endrin ketone	13.231	805871	0.009	0.009
30) Decachlorobiphenyl	14.692	651609	0.011	0.011

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\008F0801.D
Lab Smp Id: AB3 G252
Inj Date : 08-MAR-2010 13:35
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB3 G252,,1,3
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:46 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 13:35 Cal File: 008F0801.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.694	5.694	0.000	2400568	0.02500	0.02426		
4 alpha-BHC						CAS #: 319-84-6	
6.771	6.771	0.000	3797659	0.02500	0.02428		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.406	7.406	0.000	1642975	0.02500	0.02432		
6 beta-BHC						CAS #: 319-85-7	
7.620	7.620	0.000	599798	0.02500	0.02400		
7 delta-BHC						CAS #: 319-86-8	
8.235	8.235	0.000	3170928	0.02500	0.02374		
8 Heptachlor						CAS #: 76-44-8	
8.313	8.313	0.000	3398958	0.02500	0.02419		
10 Aldrin						CAS #: 309-00-2	
9.060	9.060	0.000	3061391	0.02500	0.02349		
12 Heptachlor epoxide						CAS #: 1024-57-3	
10.220	10.220	0.000	1247704	0.02500	0.02429		
13 gamma-Chlordane						CAS #: 5103-74-2	
10.534	10.534	0.000	1280733	0.02500	0.02397		
14 alpha-Chlordane						CAS #: 5103-71-9	
10.767	10.767	0.000	1285653	0.02500	0.02397		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
11.095  11.095    0.000         2353441 0.02500  0.02411
-------------------------------------------------------------------------------
```

				AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
	15 Endosulfan I					CAS #: 959-98-8	
10.818	10.818	0.000	2525854	0.02500	0.02396		
	17 Dieldrin					CAS #: 60-57-1	
11.218	11.218	0.000	2627094	0.02500	0.02426		
	20 Endrin					CAS #: 72-20-8	
11.614	11.614	0.000	1242375	0.02500	0.02392		
	22 4,4'-DDD					CAS #: 72-54-8	
11.859	11.859	0.000	1618836	0.02500	0.02333		
	23 Endosulfan II					CAS #: 33213-65-9	
11.898	11.898	0.000	1175712	0.02500	0.02399		
	24 4,4'-DDT					CAS #: 50-29-3	
12.233	12.233	0.000	1673362	0.02500	0.02337		
	25 Endrin aldehyde					CAS #: 7421-93-4	
12.327	12.327	0.000	859131	0.02500	0.02330		
	26 Endosulfan sulfate					CAS #: 1031-07-8	
12.653	12.653	0.000	1011873	0.02500	0.02352		
	28 Methoxychlor					CAS #: 72-43-5	
13.041	13.041	0.000	445258	0.02500	0.02373		
	29 Endrin ketone					CAS #: 53494-70-5	
13.230	13.230	0.000	1201901	0.02500	0.02368		
$	30 Decachlorobiphenyl					CAS #: 2051-24-3	
14.691	14.691	0.000	649823	0.02500	0.02411		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\008F0801.D

Date : 08-MAR-2010 13:35

Client ID:

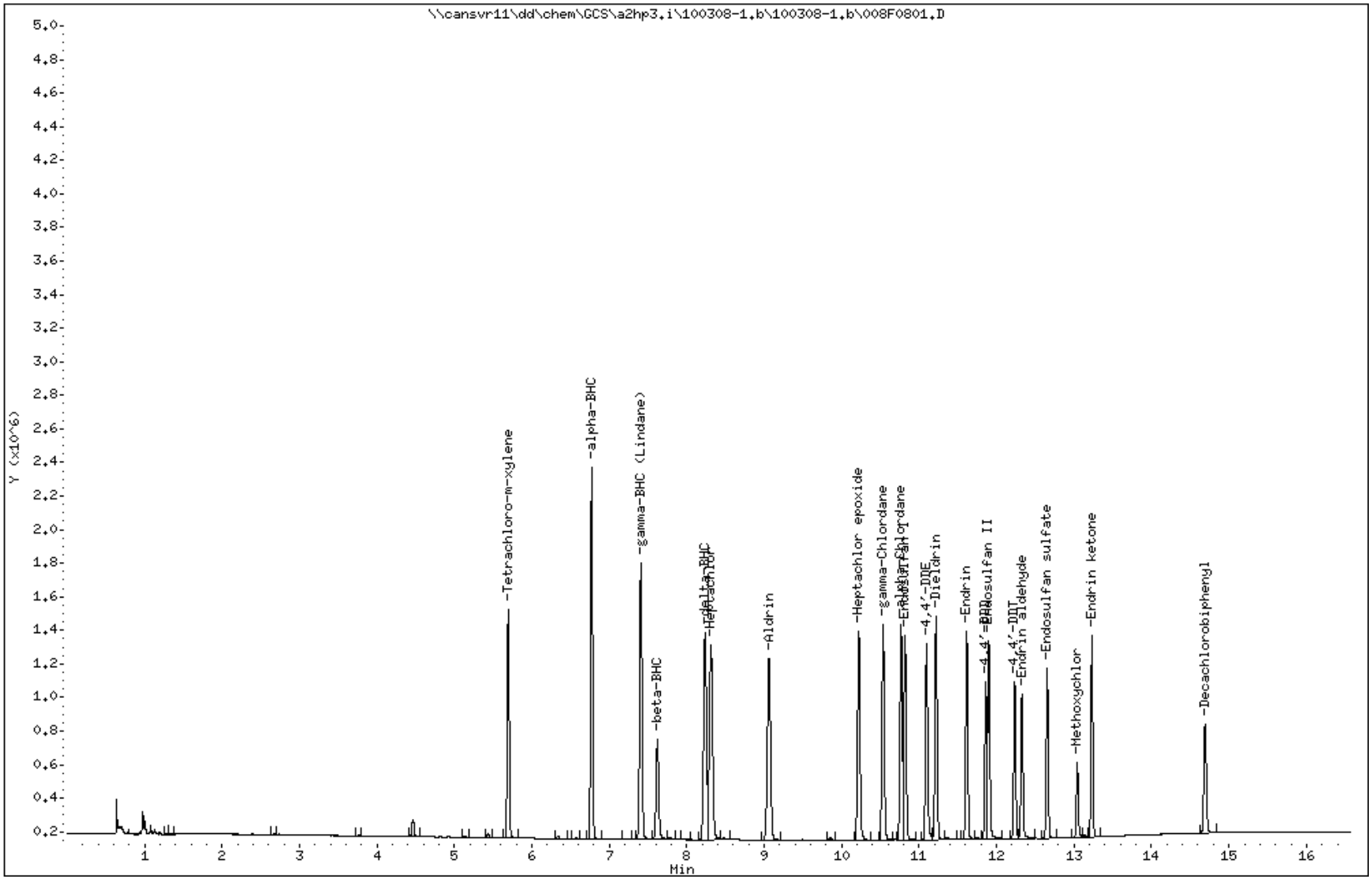
Instrument: a2hp3.i

Sample Info: AB3 G252,,1,3

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 13:35
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/008F0801.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.695	2400568	0.024	0.024
4) alpha-BHC	6.771	3797659	0.024	0.024
5) gamma-BHC (Lindane)	7.406	3420303	0.024	0.024
6) beta-BHC	7.621	1423655	0.024	0.024
7) delta-BHC	8.236	3170928	0.024	0.024
8) Heptachlor	8.313	3398958	0.024	0.024
10) Aldrin	9.061	3061391	0.023	0.023
12) Heptachlor epoxide	10.221	2779429	0.024	0.024
13) gamma-Chlordane	10.535	2713086	0.024	0.024
14) alpha-Chlordane	10.767	2620457	0.024	0.024
15) Endosulfan I	10.818	2525854	0.024	0.024
16) 4,4'-DDE	11.096	2353441	0.024	0.024
17) Dieldrin	11.218	2627094	0.024	0.024
20) Endrin	11.615	2303594	0.024	0.024
22) 4,4'-DDD	11.860	1618836	0.023	0.023
23) Endosulfan II	11.899	2297656	0.024	0.024
24) 4,4'-DDT	12.234	1673362	0.023	0.023
25) Endrin aldehyde	12.327	1603273	0.023	0.023
26) Endosulfan sulfate	12.654	1767201	0.024	0.024
28) Methoxychlor	13.041	784005	0.024	0.024
29) Endrin ketone	13.231	1988693	0.024	0.024
30) Decachlorobiphenyl	14.691	1459052	0.024	0.024

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\010F1001.D
Lab Smp Id: AB5 G254
Inj Date : 08-MAR-2010 14:25
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB5 G254,,1,5
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:46 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 14:25 Cal File: 010F1001.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.694	5.694	0.000	10033573	0.10000	0.1014		
4 alpha-BHC						CAS #: 319-84-6	
6.772	6.772	0.000	16842033	0.10000	0.1077		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.407	7.407	0.000	7223642	0.10000	0.1069		
6 beta-BHC						CAS #: 319-85-7	
7.621	7.621	0.000	2500211	0.10000	0.1000		
7 delta-BHC						CAS #: 319-86-8	
8.236	8.236	0.000	14647943	0.10000	0.1096		
8 Heptachlor						CAS #: 76-44-8	
8.314	8.314	0.000	14619529	0.10000	0.1040		
10 Aldrin						CAS #: 309-00-2	
9.062	9.062	0.000	13757462	0.10000	0.1056		
12 Heptachlor epoxide						CAS #: 1024-57-3	
10.220	10.220	0.000	5291615	0.10000	0.1030		
13 gamma-Chlordane						CAS #: 5103-74-2	
10.535	10.535	0.000	5531644	0.10000	0.1035		
14 alpha-Chlordane						CAS #: 5103-71-9	
10.767	10.767	0.000	5500018	0.10000	0.1026		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
11.096  11.096    0.000        10127177 0.10000   0.1038
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
	15 Endosulfan I				CAS #: 959-98-8		
10.818	10.818	0.000	10707636	0.10000	0.1016		
	17 Dieldrin				CAS #: 60-57-1		
11.218	11.218	0.000	11130987	0.10000	0.1028		
	20 Endrin				CAS #: 72-20-8		
11.614	11.614	0.000	5376491	0.10000	0.1035		
	22 4,4'-DDD				CAS #: 72-54-8		
11.859	11.859	0.000	7388466	0.10000	0.1065		
	23 Endosulfan II				CAS #: 33213-65-9		
11.899	11.899	0.000	4998848	0.10000	0.1020		
	24 4,4'-DDT				CAS #: 50-29-3		
12.234	12.234	0.000	7372725	0.10000	0.1030		
	25 Endrin aldehyde				CAS #: 7421-93-4		
12.327	12.327	0.000	3744525	0.10000	0.1016		
	26 Endosulfan sulfate				CAS #: 1031-07-8		
12.653	12.653	0.000	4388718	0.10000	0.1020		
	28 Methoxychlor				CAS #: 72-43-5		
13.040	13.040	0.000	1833557	0.10000	0.09773		
	29 Endrin ketone				CAS #: 53494-70-5		
13.229	13.229	0.000	5133836	0.10000	0.1011		
$	30 Decachlorobiphenyl				CAS #: 2051-24-3		
14.689	14.689	0.000	2415277	0.10000	0.08962		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\010F1001.D

Page 1

Date : 08-MAR-2010 14:25

Client ID:

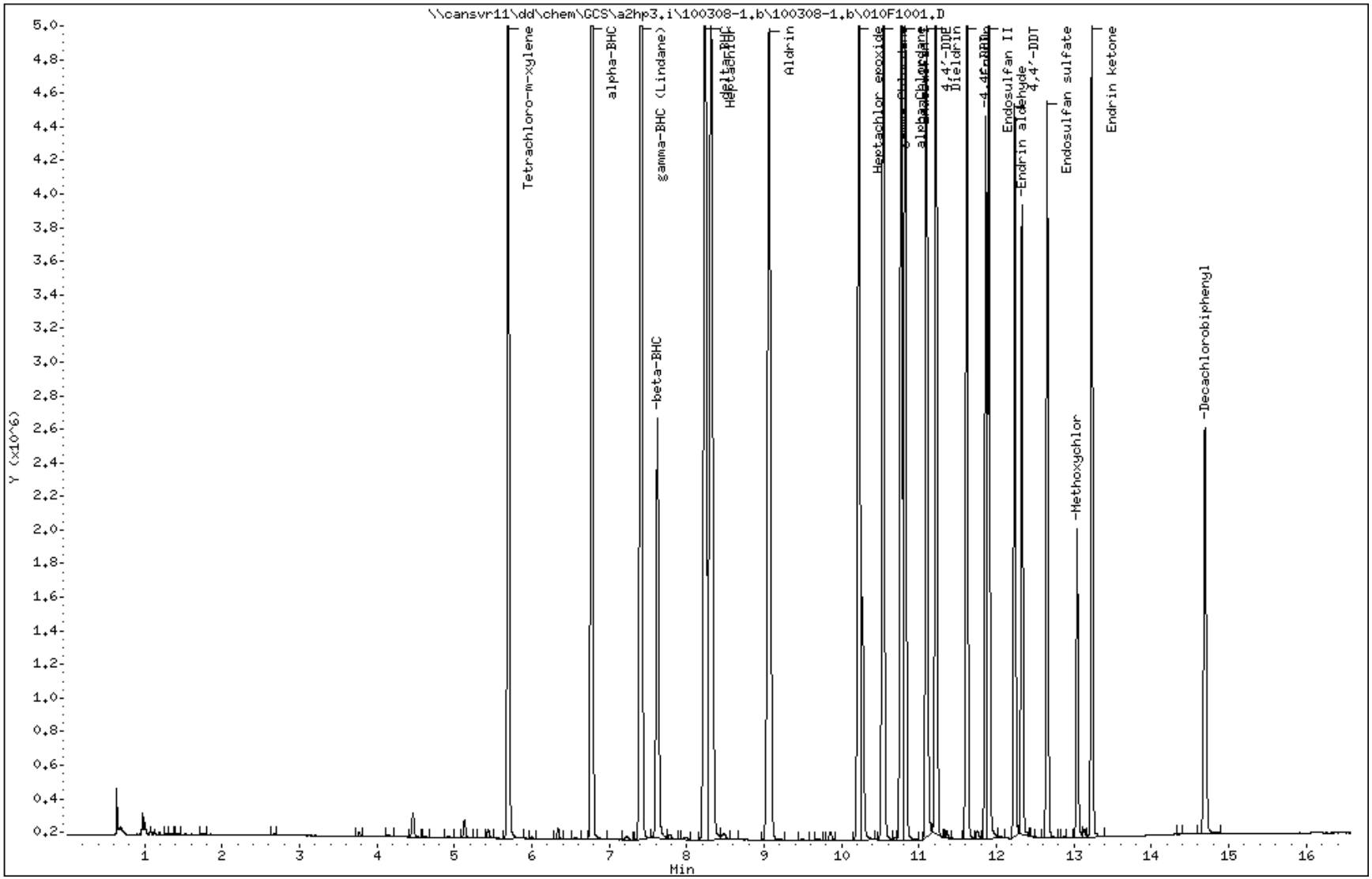
Instrument: a2hp3.i

Sample Info: AB5 G254,,1,5

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 14:25
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/010F1001.D
Lab Sample ID: AB5 G254
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.695	10033573	0.101	0.101
4) alpha-BHC	6.772	16842033	0.108	0.108
5) gamma-BHC (Lindane)	7.407	14977835	0.107	0.107
6) beta-BHC	7.622	5757357	0.100	0.100
7) delta-BHC	8.237	14647943	0.110	0.110
8) Heptachlor	8.314	14619529	0.104	0.104
10) Aldrin	9.062	13757462	0.106	0.106
12) Heptachlor epoxide	10.221	11931520	0.103	0.103
13) gamma-Chlordane	10.536	11708873	0.104	0.104
14) alpha-Chlordane	10.767	11144735	0.103	0.103
15) Endosulfan I	10.818	10707636	0.102	0.102
16) 4,4'-DDE	11.097	10127177	0.104	0.104
17) Dieldrin	11.218	11130987	0.103	0.103
20) Endrin	11.615	9834275	0.104	0.104
22) 4,4'-DDD	11.860	7388466	0.106	0.106
23) Endosulfan II	11.900	9373986	0.102	0.102
24) 4,4'-DDT	12.234	7372725	0.103	0.103
25) Endrin aldehyde	12.327	6424401	0.102	0.102
26) Endosulfan sulfate	12.653	7389357	0.102	0.102
28) Methoxychlor	13.041	3100673	0.098	0.098
29) Endrin ketone	13.230	8353449	0.101	0.101
30) Decachlorobiphenyl	14.690	5301652	0.090	0.090

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Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\011F1101.D
Lab Smp Id: AB6 G255
Inj Date : 08-MAR-2010 14:49
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB6 G255,,1,6
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:46 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 14:49 Cal File: 011F1101.D
Als bottle: 11 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.694	5.694	0.000	20411996	0.20000	0.2063		
4 alpha-BHC						CAS #: 319-84-6	
6.772	6.772	0.000	34828940	0.20000	0.2227		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.407	7.407	0.000	14787194	0.20000	0.2188		
6 beta-BHC						CAS #: 319-85-7	
7.620	7.620	0.000	5199148	0.20000	0.2081		
7 delta-BHC						CAS #: 319-86-8	
8.234	8.234	0.000	30935825	0.20000	0.2316		
8 Heptachlor						CAS #: 76-44-8	
8.312	8.312	0.000	29872690	0.20000	0.2126		
10 Aldrin						CAS #: 309-00-2	
9.061	9.061	0.000	28578460	0.20000	0.2193		
12 Heptachlor epoxide						CAS #: 1024-57-3	
10.220	10.220	0.000	10587776	0.20000	0.2061		
13 gamma-Chlordane						CAS #: 5103-74-2	
10.535	10.535	0.000	11667342	0.20000	0.2184		
14 alpha-Chlordane						CAS #: 5103-71-9	
10.767	10.767	0.000	11557061	0.20000	0.2155		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
11.096  11.096    0.000        21948248 0.20000   0.2249
-------------------------------------------------------------------------------
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RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
15 Endosulfan I						CAS #: 959-98-8	
10.818	10.818	0.000	22052778	0.20000	0.2092		
17 Dieldrin						CAS #: 60-57-1	
11.219	11.219	0.000	23421490	0.20000	0.2163		
20 Endrin						CAS #: 72-20-8	
11.614	11.614	0.000	11175706	0.20000	0.2152		
22 4,4'-DDD						CAS #: 72-54-8	
11.859	11.859	0.000	16327850	0.20000	0.2354		
23 Endosulfan II						CAS #: 33213-65-9	
11.898	11.898	0.000	10472198	0.20000	0.2137		
24 4,4'-DDT						CAS #: 50-29-3	
12.233	12.233	0.000	16732543	0.20000	0.2337		
25 Endrin aldehyde						CAS #: 7421-93-4	
12.327	12.327	0.000	8143724	0.20000	0.2208		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.652	12.652	0.000	9302341	0.20000	0.2163		
28 Methoxychlor						CAS #: 72-43-5	
13.040	13.040	0.000	4159087	0.20000	0.2217		
29 Endrin ketone						CAS #: 53494-70-5	
13.229	13.229	0.000	11334612	0.20000	0.2233		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.690	14.690	0.000	5268176	0.20000	0.1955		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\011F1101.D

Date : 08-MAR-2010 14:49

Client ID:

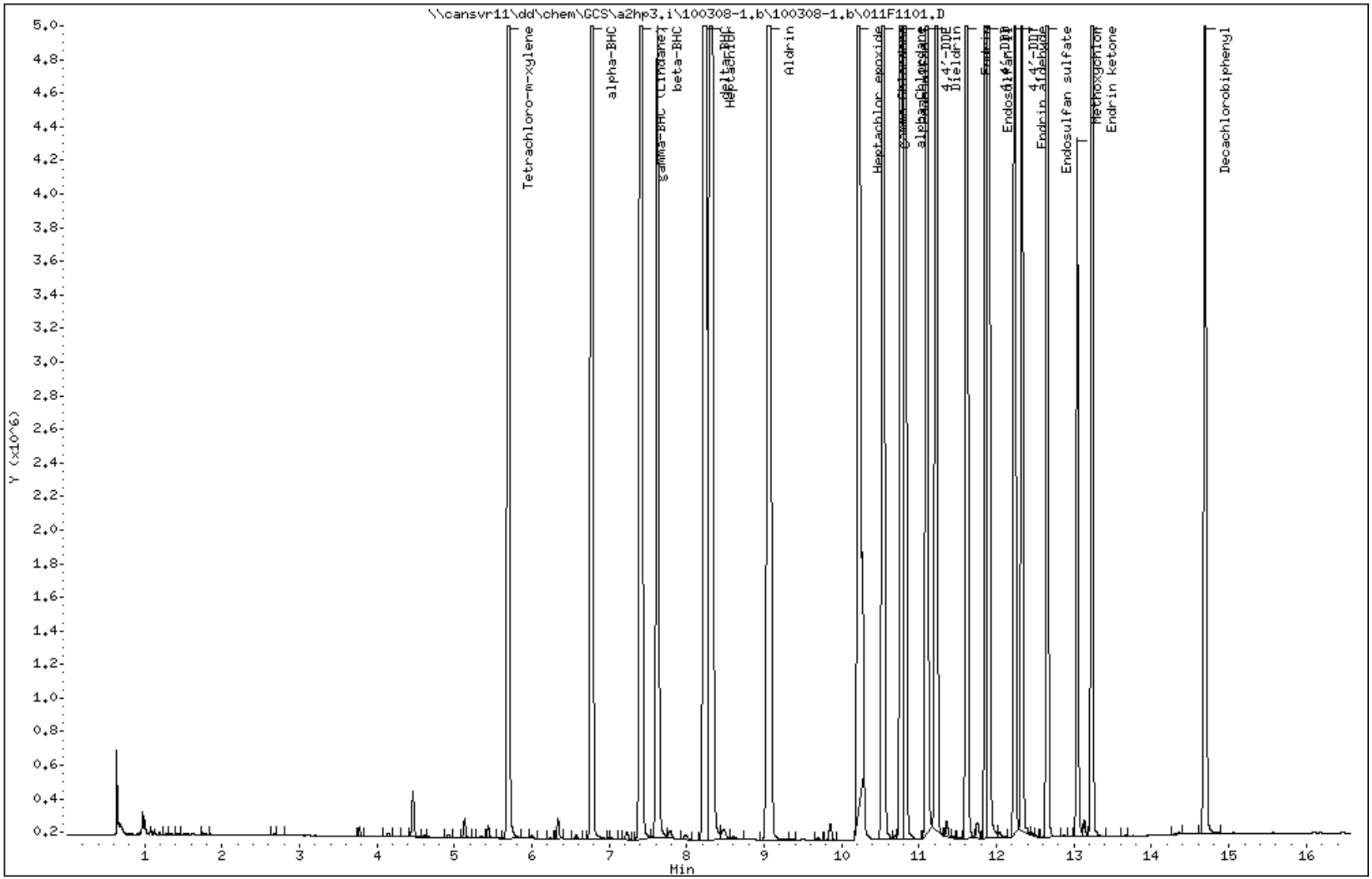
Instrument: a2hp3.i

Sample Info: AB6 G255,,1,6

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 14:49
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/011F1101.D
Lab Sample ID: AB6 G255
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.695	20411996	0.206	0.206
4) alpha-BHC	6.772	34828940	0.223	0.223
5) gamma-BHC (Lindane)	7.407	30975616	0.219	0.219
6) beta-BHC	7.620	11669642	0.208	0.208
7) delta-BHC	8.235	30935825	0.232	0.232
8) Heptachlor	8.313	29872690	0.213	0.213
10) Aldrin	9.061	28578460	0.219	0.219
12) Heptachlor epoxide	10.220	25639976	0.206	0.206
13) gamma-Chlordane	10.535	24418186	0.218	0.218
14) alpha-Chlordane	10.768	23318152	0.216	0.216
15) Endosulfan I	10.819	22052778	0.209	0.209
16) 4,4'-DDE	11.096	21948248	0.225	0.225
17) Dieldrin	11.220	23421490	0.216	0.216
20) Endrin	11.615	20700300	0.215	0.215
22) 4,4'-DDD	11.860	16327850	0.235	0.235
23) Endosulfan II	11.899	19462457	0.214	0.214
24) 4,4'-DDT	12.234	16732543	0.234	0.234
25) Endrin aldehyde	12.327	13827130	0.221	0.221
26) Endosulfan sulfate	12.653	16009281	0.216	0.216
28) Methoxychlor	13.040	6913424	0.222	0.222
29) Endrin ketone	13.230	18153127	0.223	0.223
30) Decachlorobiphenyl	14.690	11373832	0.195	0.195

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\013F1301.D
Lab Smp Id: AB4 G253
Inj Date : 08-MAR-2010 15:39
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB4 G253,,1,4
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:46 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.693	5.693	0.000	5110495	0.05000	0.05164		
4 alpha-BHC						CAS #: 319-84-6	
6.772	6.772	0.000	8470365	0.05000	0.05416		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.407	7.407	0.000	3651379	0.05000	0.05404		
6 beta-BHC						CAS #: 319-85-7	
7.620	7.620	0.000	1272691	0.05000	0.05093		
7 delta-BHC						CAS #: 319-86-8	
8.235	8.235	0.000	7216879	0.05000	0.05402		
8 Heptachlor						CAS #: 76-44-8	
8.312	8.312	0.000	7422490	0.05000	0.05282		
10 Aldrin						CAS #: 309-00-2	
9.061	9.061	0.000	6915960	0.05000	0.05307		
12 Heptachlor epoxide						CAS #: 1024-57-3	
10.220	10.220	0.000	2727366	0.05000	0.05310		
13 gamma-Chlordane						CAS #: 5103-74-2	
10.535	10.535	0.000	2829557	0.05000	0.05296		
14 alpha-Chlordane						CAS #: 5103-71-9	
10.767	10.767	0.000	2790697	0.05000	0.05204		

```
   16 4,4'-DDE                                    CAS #: 72-55-9
11.096  11.096    0.000         5198379 0.05000  0.05326
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
15 Endosulfan I						CAS #: 959-98-8	
10.817	10.817	0.000	5507990	0.05000	0.05224		
17 Dieldrin						CAS #: 60-57-1	
11.218	11.218	0.000	5838796	0.05000	0.05393		
20 Endrin						CAS #: 72-20-8	
11.614	11.614	0.000	2795391	0.05000	0.05383		
22 4,4'-DDD						CAS #: 72-54-8	
11.860	11.860	0.000	3600937	0.05000	0.05190		
23 Endosulfan II						CAS #: 33213-65-9	
11.899	11.899	0.000	2555581	0.05000	0.05214		
24 4,4'-DDT						CAS #: 50-29-3	
12.233	12.233	0.000	3727714	0.05000	0.05206		
25 Endrin aldehyde						CAS #: 7421-93-4	
12.327	12.327	0.000	1904574	0.05000	0.05165		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.653	12.653	0.000	2208731	0.05000	0.05135		
28 Methoxychlor						CAS #: 72-43-5	
13.042	13.042	0.000	924376	0.05000	0.04927		
29 Endrin ketone						CAS #: 53494-70-5	
13.231	13.231	0.000	2617968	0.05000	0.05158		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.692	14.692	0.000	1308698	0.05000	0.04856		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\013F1301.D

Page 1

Date : 08-MAR-2010 15:39

Client ID:

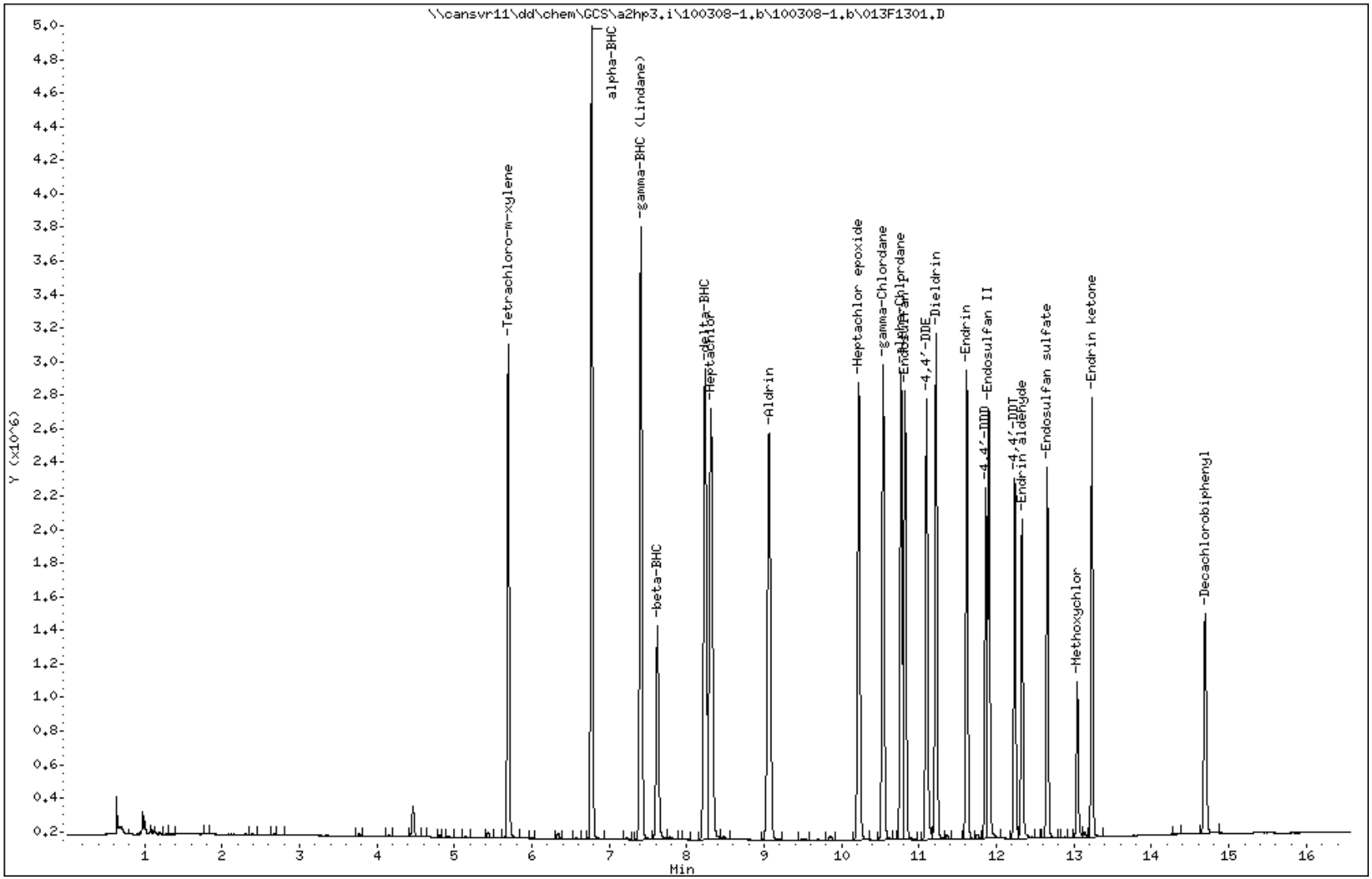
Instrument: a2hp3.i

Sample Info: AB4 G253,,1,4

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 15:39
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/013F1301.D
Lab Sample ID: AB4 G253
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.694	5110495	0.052	0.052
4) alpha-BHC	6.772	8470365	0.054	0.054
5) gamma-BHC (Lindane)	7.407	7562516	0.054	0.054
6) beta-BHC	7.620	2959878	0.051	0.051
7) delta-BHC	8.235	7216879	0.054	0.054
8) Heptachlor	8.313	7422490	0.053	0.053
10) Aldrin	9.061	6915960	0.053	0.053
12) Heptachlor epoxide	10.220	6024782	0.053	0.053
13) gamma-Chlordane	10.535	5944056	0.053	0.053
14) alpha-Chlordane	10.768	5698050	0.052	0.052
15) Endosulfan I	10.818	5507990	0.052	0.052
16) 4,4'-DDE	11.096	5198379	0.053	0.053
17) Dieldrin	11.219	5838796	0.054	0.054
20) Endrin	11.615	5044463	0.054	0.054
22) 4,4'-DDD	11.860	3600937	0.052	0.052
23) Endosulfan II	11.900	4876083	0.052	0.052
24) 4,4'-DDT	12.234	3727714	0.052	0.052
25) Endrin aldehyde	12.328	3433841	0.052	0.052
26) Endosulfan sulfate	12.654	3822390	0.051	0.051
28) Methoxychlor	13.042	1608968	0.049	0.049
29) Endrin ketone	13.231	4288228	0.052	0.052
30) Decachlorobiphenyl	14.692	2925269	0.049	0.049

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp3.i Injection Date: 08-MAR-2010 16:04
Lab File ID: 014F1401.D Init. Cal. Date(s): 11-FEB-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 09:19 15:39
Lab Sample ID: ICV E048 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	98957455	++++	++++	0.000	++++	15.00000	Averaged	<-
4 alpha-BHC	89840067	96773360	96773360	0.010	-7.71737	15.00000	Averaged	
5 gamma-BHC (Lindane)	67570028	71392480	71392480	0.010	-5.65702	15.00000	Averaged	
6 beta-BHC	24988148	26153240	26153240	0.010	-4.66258	15.00000	Averaged	
7 delta-BHC	133587576	141589200	141589200	0.010	-5.98980	15.00000	Averaged	
8 Heptachlor	140513277	146857480	146857480	0.010	-4.51502	15.00000	Averaged	
10 Aldrin	130316193	129728800	129728800	0.010	0.45074	15.00000	Averaged	
12 Heptachlor epoxide	51362535	55211760	55211760	0.010	-7.49423	15.00000	Averaged	
13 gamma-Chlordane	53430002	57014520	57014520	0.010	-6.70881	15.00000	Averaged	
14 alpha-Chlordane	53627391	56635960	56635960	0.010	-5.61014	15.00000	Averaged	
16 4,4'-DDE	97604338	102116920	102116920	0.010	-4.62334	15.00000	Averaged	
15 Endosulfan I	105425418	112460200	112460200	0.010	-6.67276	15.00000	Averaged	
17 Dieldrin	108270050	112893320	112893320	0.010	-4.27013	15.00000	Averaged	
20 Endrin	51933577	56423680	56423680	0.010	-8.64586	15.00000	Averaged	
22 4,4'-DDD	69376715	73635600	73635600	0.010	-6.13878	15.00000	Averaged	
23 Endosulfan II	49009195	50550240	50550240	0.010	-3.14440	15.00000	Averaged	
24 4,4'-DDT	71610454	66586400	66586400	0.010	7.01581	15.00000	Averaged	
25 Endrin aldehyde	36873332	38195920	38195920	0.010	-3.58684	15.00000	Averaged	
26 Endosulfan sulfate	43014138	44796400	44796400	0.010	-4.14343	15.00000	Averaged	
28 Methoxychlor	18761141	18562440	18562440	0.010	1.05911	15.00000	Averaged	
29 Endrin ketone	50757420	49231360	49231360	0.010	3.00658	15.00000	Averaged	
$ 30 Decachlorobiphenyl	26949255	++++	0.00000	0.010	++++	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 5.05564
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\014F1401.D
Lab Smp Id: ICV E048
Inj Date : 08-MAR-2010 16:04
Operator : 093905 Inst ID: a2hp3.i
Smp Info : ICV E048
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:52 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
Peaks not detected for Quant. or Qual. signal(s).							
4 alpha-BHC						CAS #: 319-84-6	
6.772	6.772	0.000	2419334	0.02500	0.02693		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.408	7.408	0.000	1784812	0.02500	0.02641		
6 beta-BHC						CAS #: 319-85-7	
7.620	7.620	0.000	653831	0.02500	0.02616		
7 delta-BHC						CAS #: 319-86-8	
8.236	8.236	0.000	3539730	0.02500	0.02650		
8 Heptachlor						CAS #: 76-44-8	
8.313	8.313	0.000	3671437	0.02500	0.02613		
10 Aldrin						CAS #: 309-00-2	
9.060	9.060	0.000	3243220	0.02500	0.02489		
12 Heptachlor epoxide						CAS #: 1024-57-3	
10.221	10.221	0.000	1380294	0.02500	0.02687		
13 gamma-Chlordane						CAS #: 5103-74-2	
10.535	10.535	0.000	1425363	0.02500	0.02668		

```
   14 alpha-Chlordane                              CAS #: 5103-71-9
10.767  10.767    0.000         1415899 0.02500  0.02640
-------------------------------------------------------------------------------
   16 4,4'-DDE                                     CAS #: 72-55-9
11.096  11.096    0.000         2552923 0.02500  0.02616
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
15 Endosulfan I						CAS #: 959-98-8	
10.819	10.819	0.000	2811505	0.02500	0.02667		
17 Dieldrin						CAS #: 60-57-1	
11.219	11.219	0.000	2822333	0.02500	0.02607		
20 Endrin						CAS #: 72-20-8	
11.615	11.615	0.000	1410592	0.02500	0.02716		
22 4,4'-DDD						CAS #: 72-54-8	
11.859	11.859	0.000	1840890	0.02500	0.02653		
23 Endosulfan II						CAS #: 33213-65-9	
11.900	11.900	0.000	1263756	0.02500	0.02579		
24 4,4'-DDT						CAS #: 50-29-3	
12.234	12.234	0.000	1664660	0.02500	0.02325		
25 Endrin aldehyde						CAS #: 7421-93-4	
12.327	12.327	0.000	954898	0.02500	0.02590		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.654	12.654	0.000	1119910	0.02500	0.02604		
28 Methoxychlor						CAS #: 72-43-5	
13.042	13.042	0.000	464061	0.02500	0.02474		
29 Endrin ketone						CAS #: 53494-70-5	
13.230	13.230	0.000	1230784	0.02500	0.02425		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\014F1401.D

Date : 08-MAR-2010 16:04

Client ID:

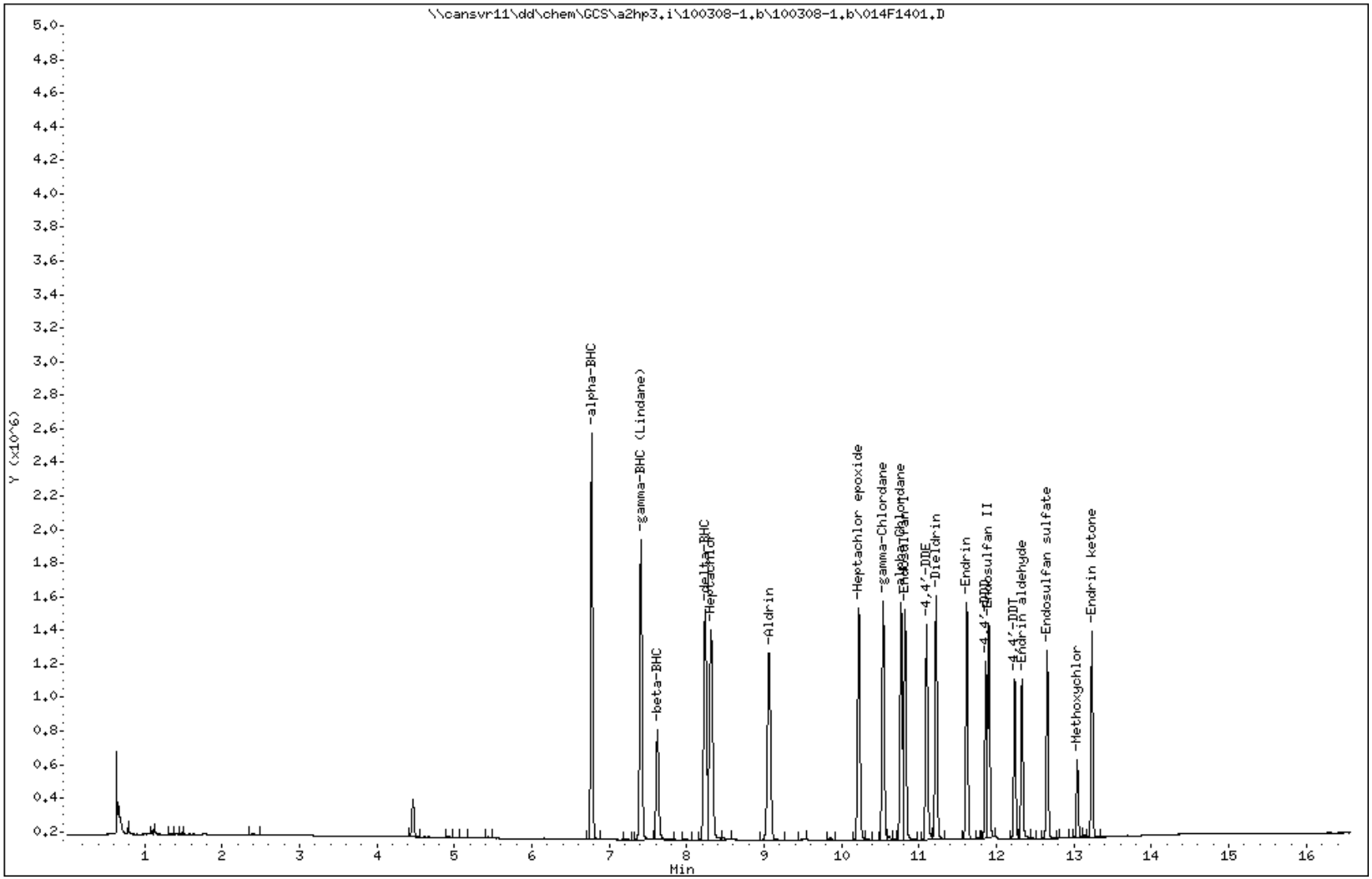
Instrument: a2hp3.i

Sample Info: ICV E048

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 16:04
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/014F1401.D
Lab Sample ID: ICV E048
Misc. Info: 1-AB.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 5.694		
4) alpha-BHC	6.772	4121645	0.027	0.027
5) gamma-BHC (Lindane)	7.408	3728556	0.026	0.026
6) beta-BHC	7.621	1553467	0.026	0.026
7) delta-BHC	8.237	3539730	0.026	0.026
8) Heptachlor	8.313	3671437	0.026	0.026
10) Aldrin	9.061	3243220	0.025	0.025
12) Heptachlor epoxide	10.222	3058541	0.027	0.027
13) gamma-Chlordane	10.536	2991891	0.027	0.027
14) alpha-Chlordane	10.767	2919180	0.026	0.026
15) Endosulfan I	10.819	2811505	0.027	0.027
16) 4,4'-DDE	11.097	2552923	0.026	0.026
17) Dieldrin	11.219	2822333	0.026	0.026
20) Endrin	11.616	2566081	0.027	0.027
22) 4,4'-DDD	11.860	1840890	0.027	0.027
23) Endosulfan II	11.901	2384842	0.026	0.026
24) 4,4'-DDT	12.235	1664660	0.023	0.023
25) Endrin aldehyde	12.327	1757291	0.026	0.026
26) Endosulfan sulfate	12.654	1942848	0.026	0.026
28) Methoxychlor	13.042	813832	0.025	0.025
29) Endrin ketone	13.231	2065557	0.024	0.024
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.692		

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\003F0301.D
Lab Smp Id: TOX1 G268
Inj Date : 23-FEB-2010 14:53
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX1 G268,,1,1
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m
Meth Date : 26-Feb-2010 09:49 a2hp3.i Quant Type: ESTD
Cal Date : 23-FEB-2010 19:00 Cal File: 013F1301.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSEMIGL

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
10.865	10.866	-0.001	2317792	0.20000	0.2097	80.00- 120.00	100.00(M)
11.211	11.212	-0.001	2084326	0.20000	0.1976	114.04- 154.04	89.93
11.776	11.776	0.000	2626080	0.20000	0.2054	115.64- 155.64	113.30
11.857	11.858	-0.001	2349605	0.20000	0.1955	52.78- 92.78	101.37
12.086	12.086	0.000	1195786	0.20000	0.1890	69.36- 109.36	51.59
		Average of Peak Amounts =			0.19944		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\003F0301.D

Page 1

Date : 23-FEB-2010 14:53

Client ID:

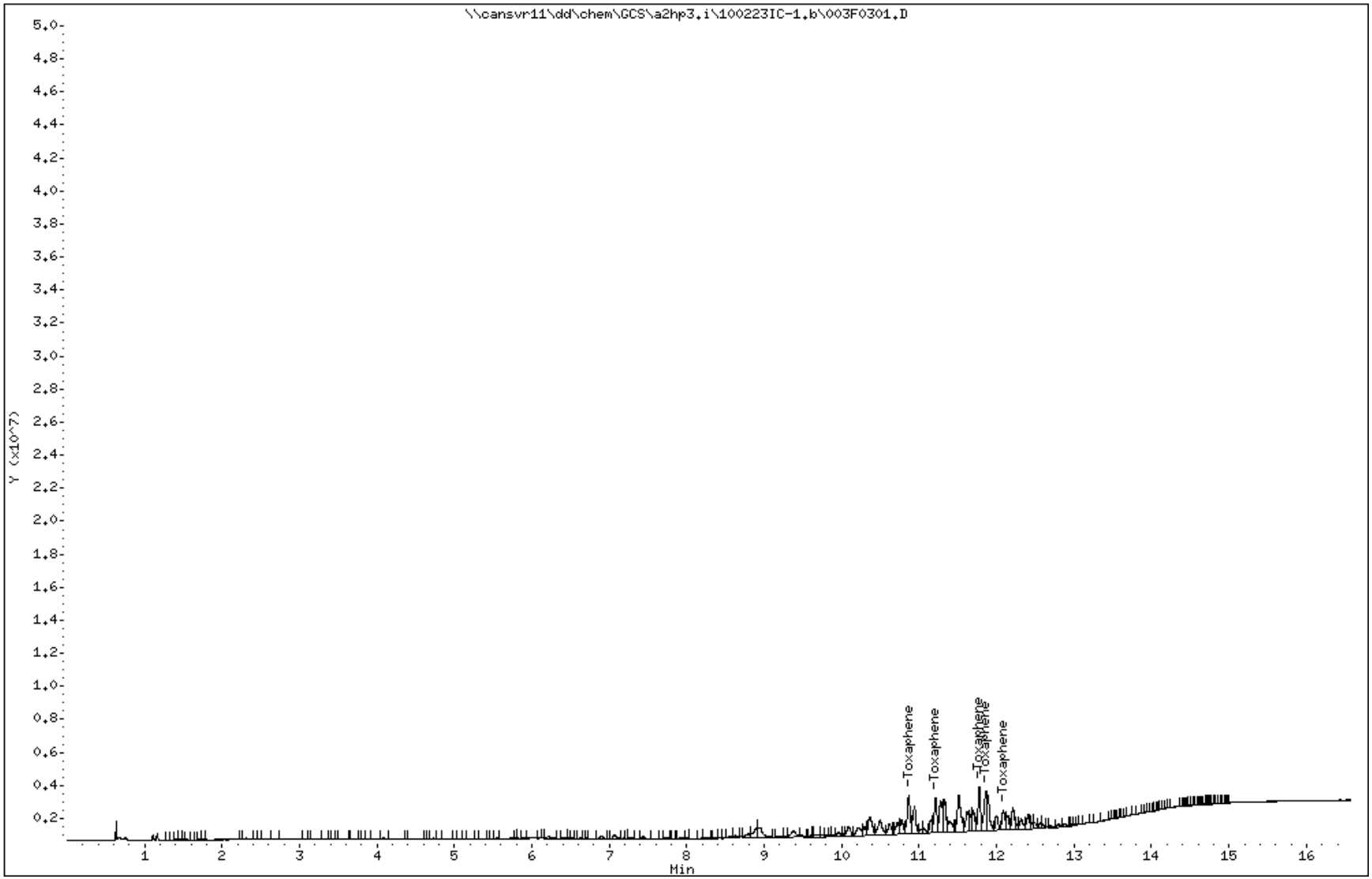
Instrument: a2hp3.i

Sample Info: TOX1 G268,,1,1

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

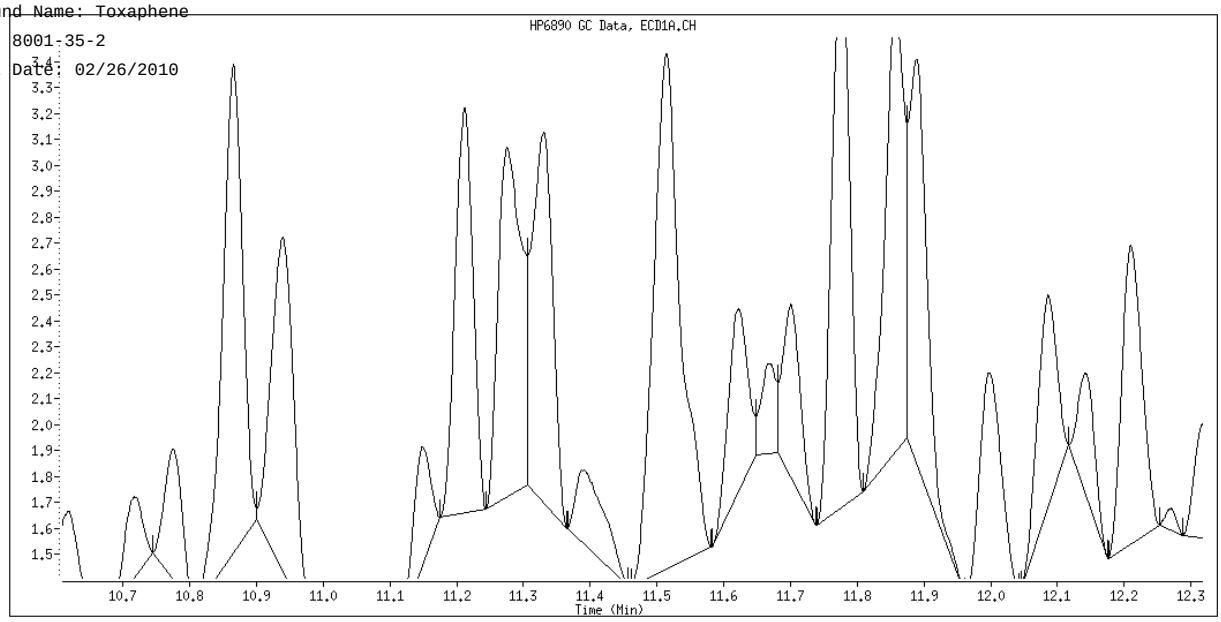


COMPOUNDS and EXP. RT REPORT

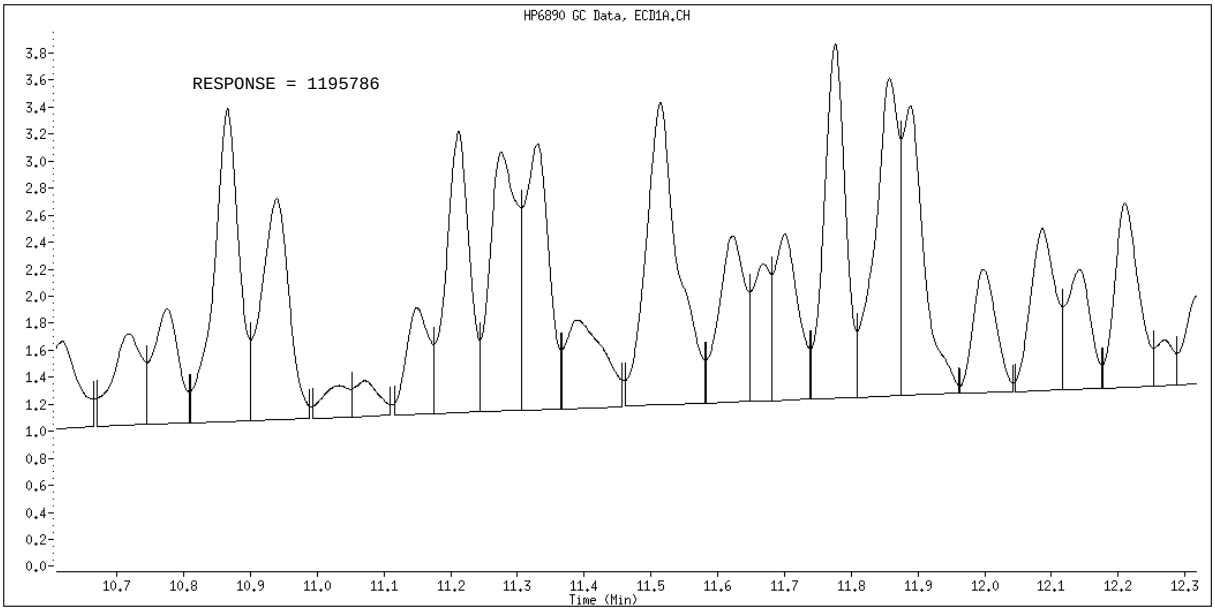
Operator: 093905 Date Acquired: 23-FEB-2010 14:53
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\003F0301.D
Lab Sample ID: TOX1 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	10.865	6111113	0.213	0.213

Data File Name: 003F0301.D
Inj. Date and Time: 23-FEB-2010 14:53
Instrument ID: a2hp3.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 02/26/2010



Original Integration



Manual Integration

Manually Integrated By: roachc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\004F0401.D
Lab Smp Id: TOX2 G268
Inj Date : 23-FEB-2010 15:17
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX2 G268,,1,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m
Meth Date : 26-Feb-2010 09:49 a2hp3.i Quant Type: ESTD
Cal Date : 23-FEB-2010 19:00 Cal File: 013F1301.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSEMIGL

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
10.866	10.866	0.000	5443796	0.50000	0.4926	80.00- 120.00	100.00(M)
11.213	11.212	0.001	5134009	0.50000	0.4868	114.04- 154.04	94.31
11.776	11.776	0.000	6336126	0.50000	0.4955	115.64- 155.64	116.39
11.858	11.858	0.000	5924945	0.50000	0.4930	52.78- 92.78	108.84
12.087	12.086	0.001	3086043	0.50000	0.4878	69.36- 109.36	56.69
		Average of Peak Amounts =			0.49114		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\004F0401.D

Page 1

Date : 23-FEB-2010 15:17

Client ID:

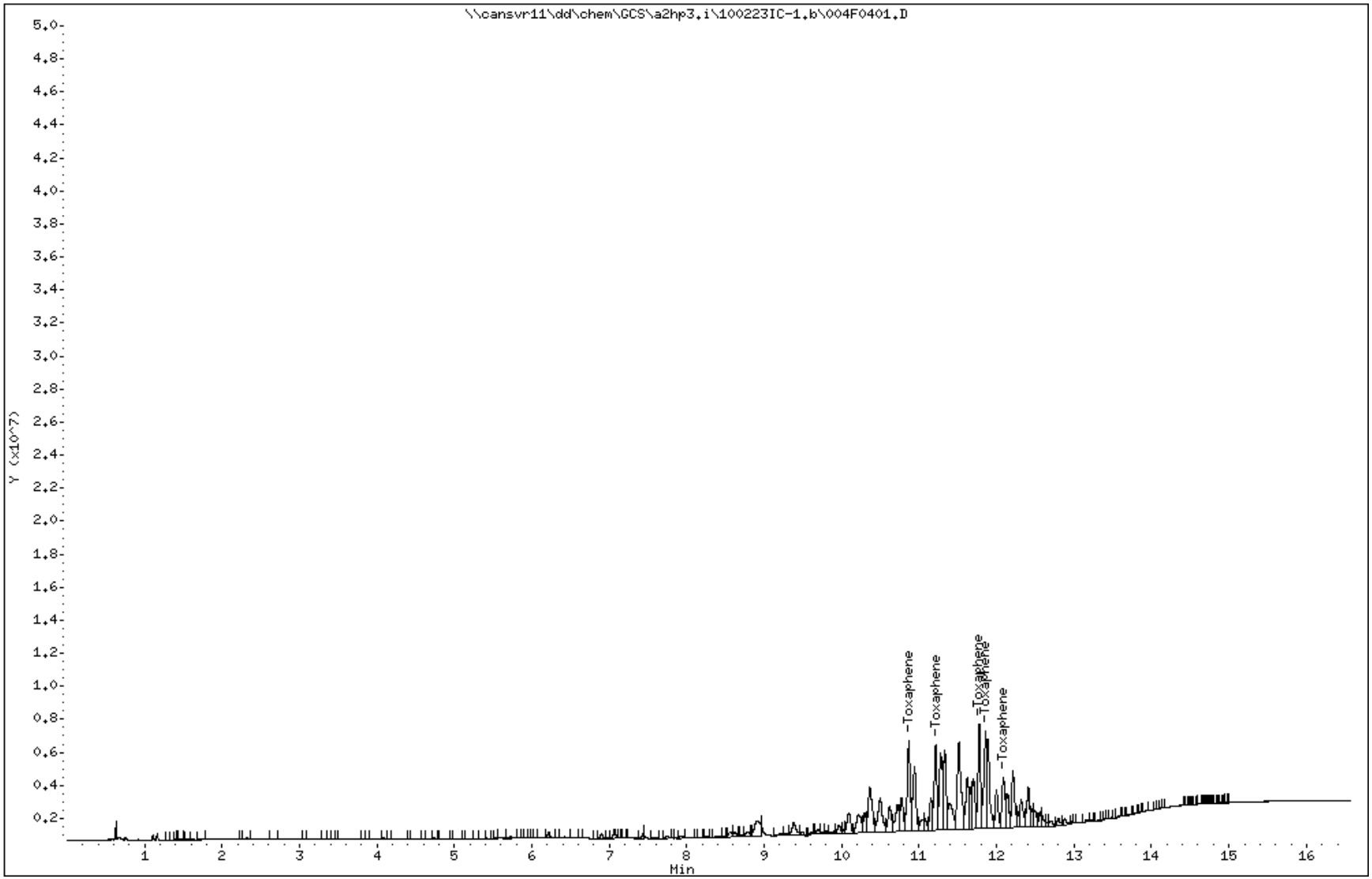
Instrument: a2hp3.i

Sample Info: TOX2 G268,,1,2

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

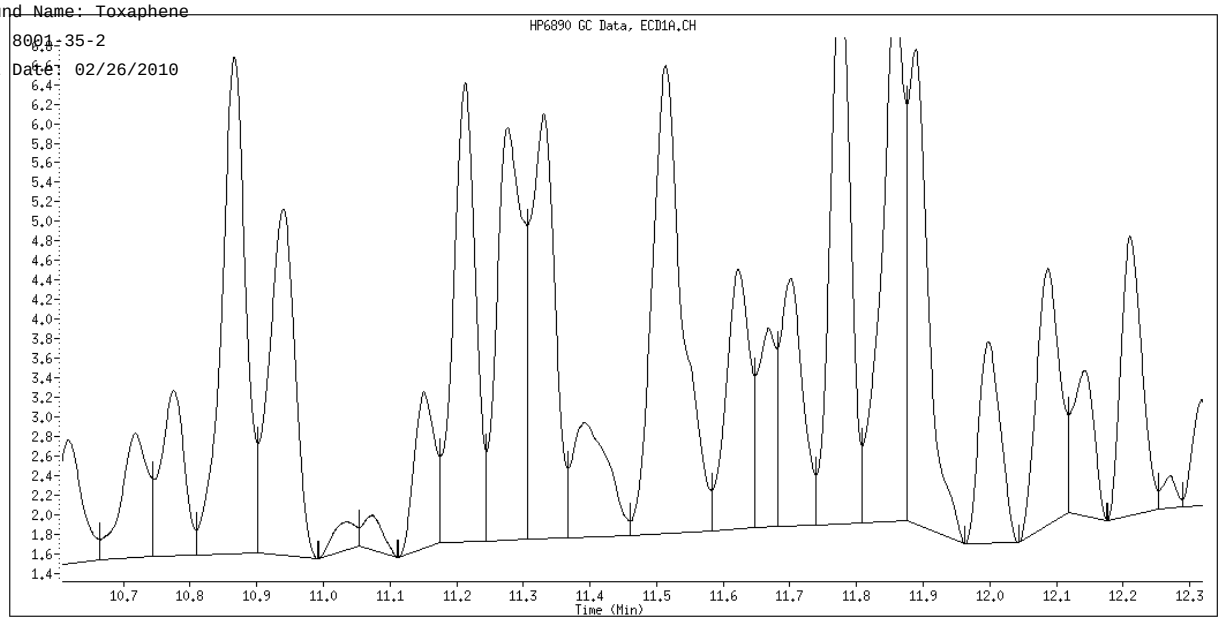


COMPOUNDS and EXP. RT REPORT

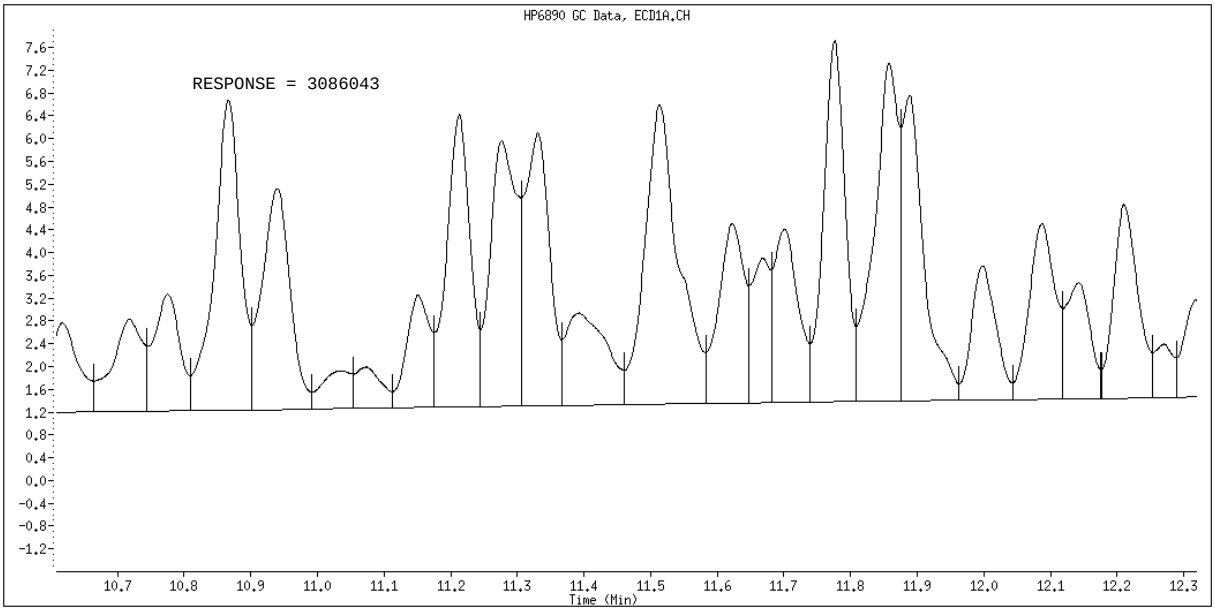
Operator: 093905 Date Acquired: 23-FEB-2010 15:17
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\004F0401.D
Lab Sample ID: TOX2 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	10.866	14896676	0.495	0.495

Data File Name: 004F0401.D
Inj. Date and Time: 23-FEB-2010 15:17
Instrument ID: a2hp3.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 02/26/2010



Original Integration



Manual Integration

Manually Integrated By: roachc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\005F0501.D
Lab Smp Id: TOX3 G268
Inj Date : 23-FEB-2010 15:42
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX3 G268,,1,3
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m
Meth Date : 23-Feb-2010 15:59 Quant Type: ESTD
Cal Date : 12-FEB-2010 19:29 Cal File: 012F1201.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
10.865	10.865	0.000	10759158	1.00000	1.044	80.00- 120.00	100.00
11.210	11.210	0.000	10487655	1.00000	1.086	114.04- 154.04	97.48
11.776	11.776	0.000	12537199	1.00000	1.047	115.64- 155.64	116.53
11.859	11.859	0.000	11668801	1.00000	1.046	52.78- 92.78	108.45
12.085	12.085	0.000	6101971	1.00000	1.052	69.36- 109.36	56.71
		Average of Peak Amounts =			1.05500		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\005F0501.D

Page 1

Date : 23-FEB-2010 15:42

Client ID:

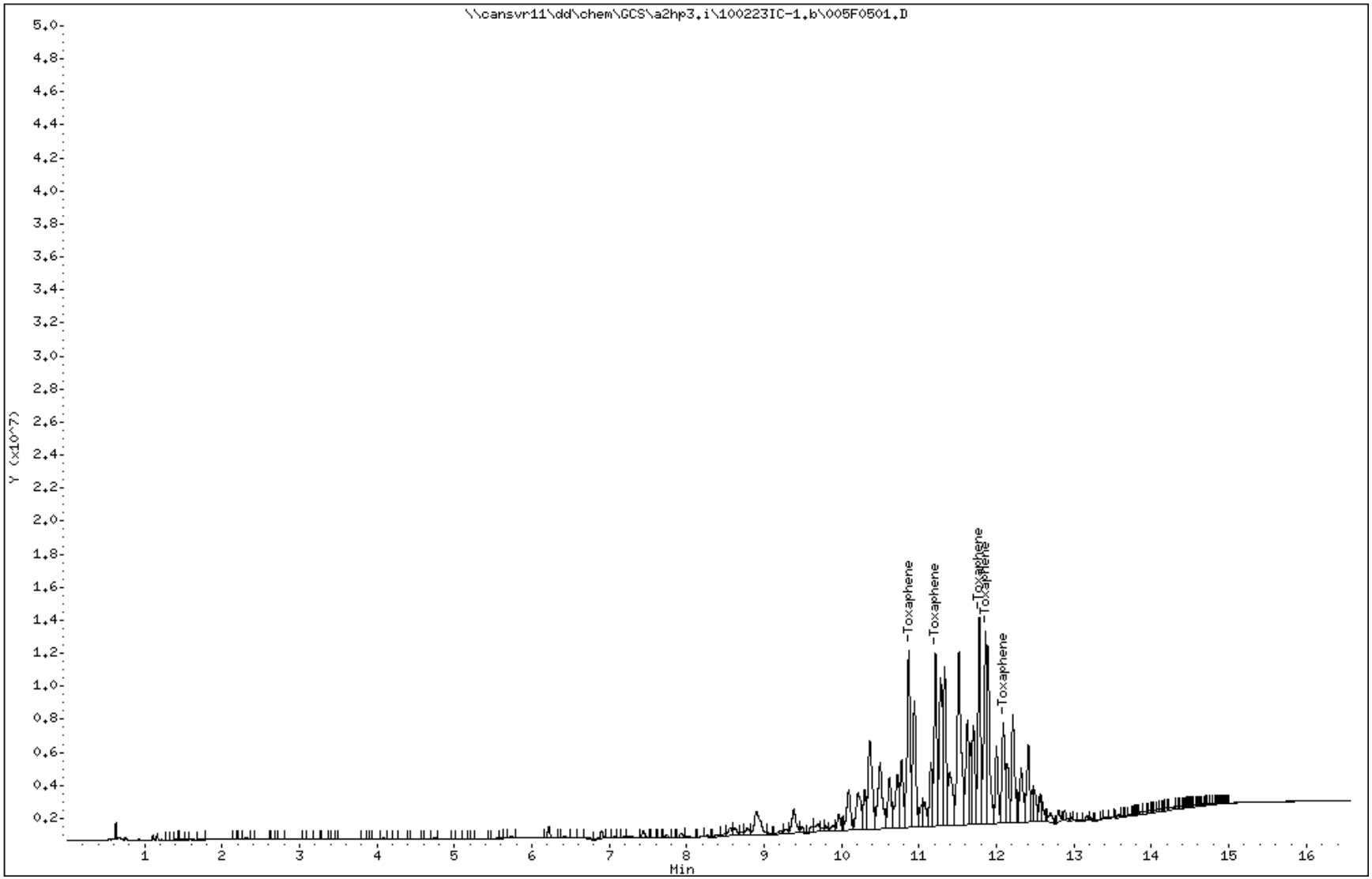
Instrument: a2hp3.i

Sample Info: TOX3 G268,,1,3

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 23-FEB-2010 15:42
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100223IC-1.b/005F0501.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	10.866	29550101	1.044	1.044

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\006F0601.D
Lab Smp Id: TOX4 G268
Inj Date : 23-FEB-2010 16:06
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX4 G268,,1,4
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m
Meth Date : 24-Feb-2010 10:09 Quant Type: ESTD
Cal Date : 12-FEB-2010 19:54 Cal File: 013F1301.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
10.866	10.866	0.000	22380934	2.00000	2.025	80.00- 120.00	100.00(M)
11.212	11.212	0.000	21934557	2.00000	2.080	114.04- 154.04	98.01
11.776	11.776	0.000	26262906	2.00000	2.054	115.64- 155.64	117.34
11.858	11.858	0.000	25204633	2.00000	2.097	52.78- 92.78	112.62
12.086	12.086	0.000	13380057	2.00000	2.115	69.36- 109.36	59.78
		Average of Peak Amounts =			2.07420		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\006F0601.D

Page 1

Date : 23-FEB-2010 16:06

Client ID:

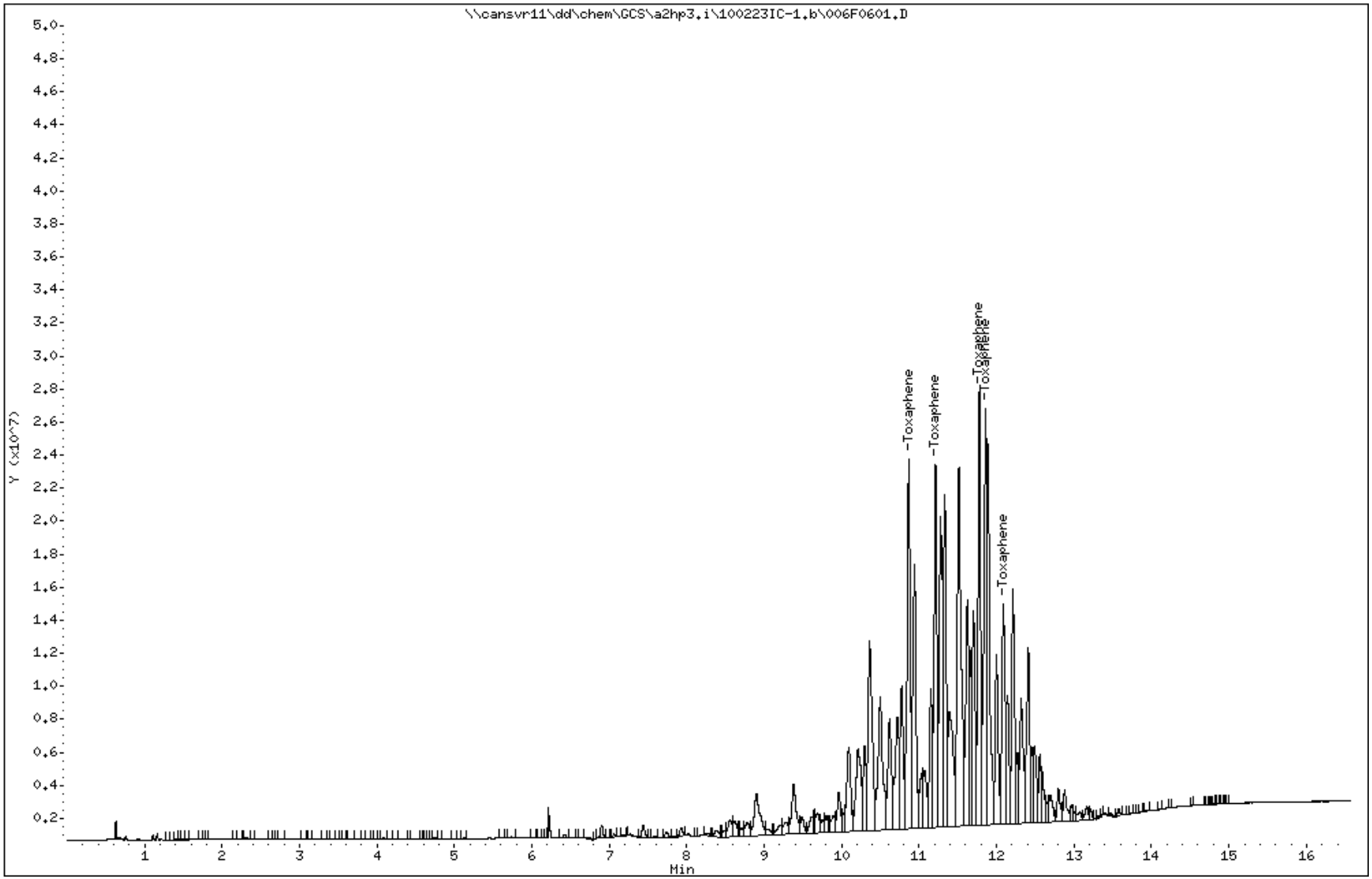
Instrument: a2hp3.i

Sample Info: TOX4 G268,,1,4

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

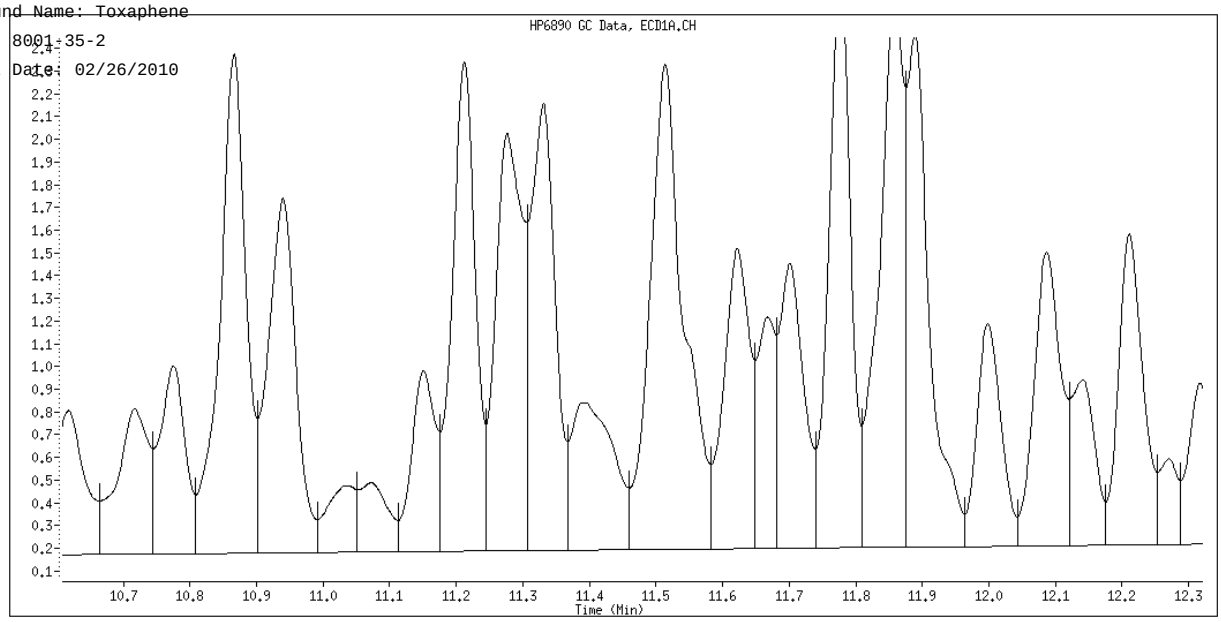


COMPOUNDS and EXP. RT REPORT

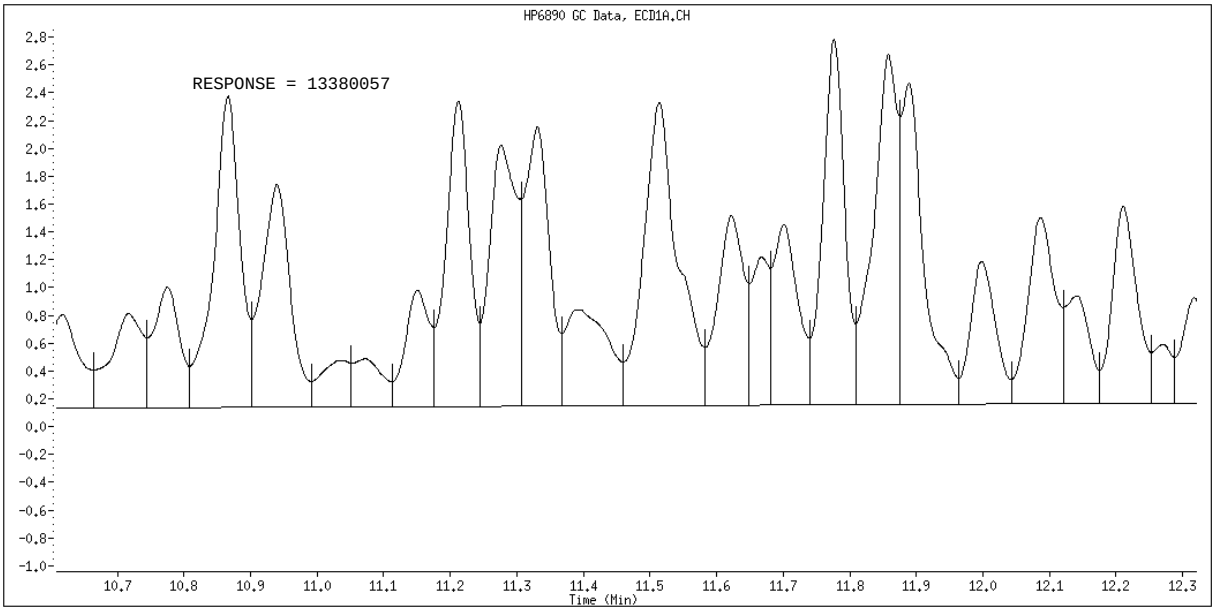
Operator: 093905 Date Acquired: 23-FEB-2010 16:06
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\006F0601.D
Lab Sample ID: TOX4 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	10.866	62798834	2.025	2.025

Data File Name: 006F0601.D
Inj. Date and Time: 23-FEB-2010 16:06
Instrument ID: a2hp3.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 02/26/2010



Original Integration



Manual Integration

Manually Integrated By: roachc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\007F0701.D
Lab Smp Id: TOX5 G268
Inj Date : 23-FEB-2010 16:31
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX5 G268,,1,5
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m
Meth Date : 23-Feb-2010 16:47 Quant Type: ESTD
Cal Date : 12-FEB-2010 20:18 Cal File: 014F1401.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
10.864	10.864	0.000	54136996	5.00000	5.164	80.00- 120.00	100.00
11.211	11.211	0.000	52912508	5.00000	5.386	114.04- 154.04	97.74
11.776	11.776	0.000	62345159	5.00000	5.150	115.64- 155.64	115.16
11.857	11.857	0.000	61088053	5.00000	5.474	52.78- 92.78	112.84
12.086	12.086	0.000	33441082	5.00000	5.849	69.36- 109.36	61.77
		Average of Peak Amounts =			5.40460		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\007F0701.D

Page 1

Date : 23-FEB-2010 16:31

Client ID:

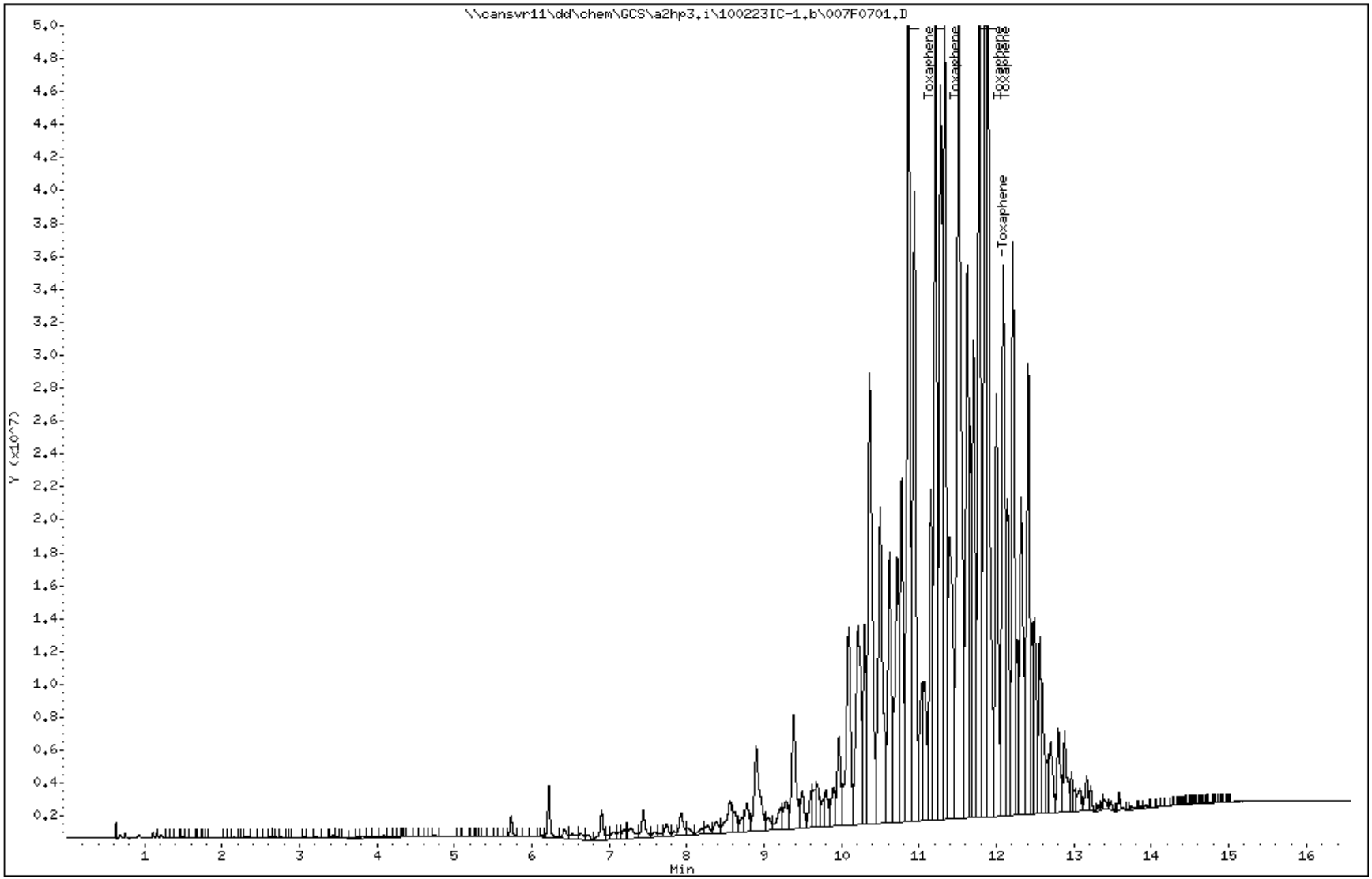
Instrument: a2hp3.i

Sample Info: TOX5 G268,,1,5

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 23-FEB-2010 16:31
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100223IC-1.b/007F0701.D
Lab Sample ID: TOX5 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	10.865	151869719	5.164	5.164

TestAmerica North Canton

PESTICIDES 8081/608

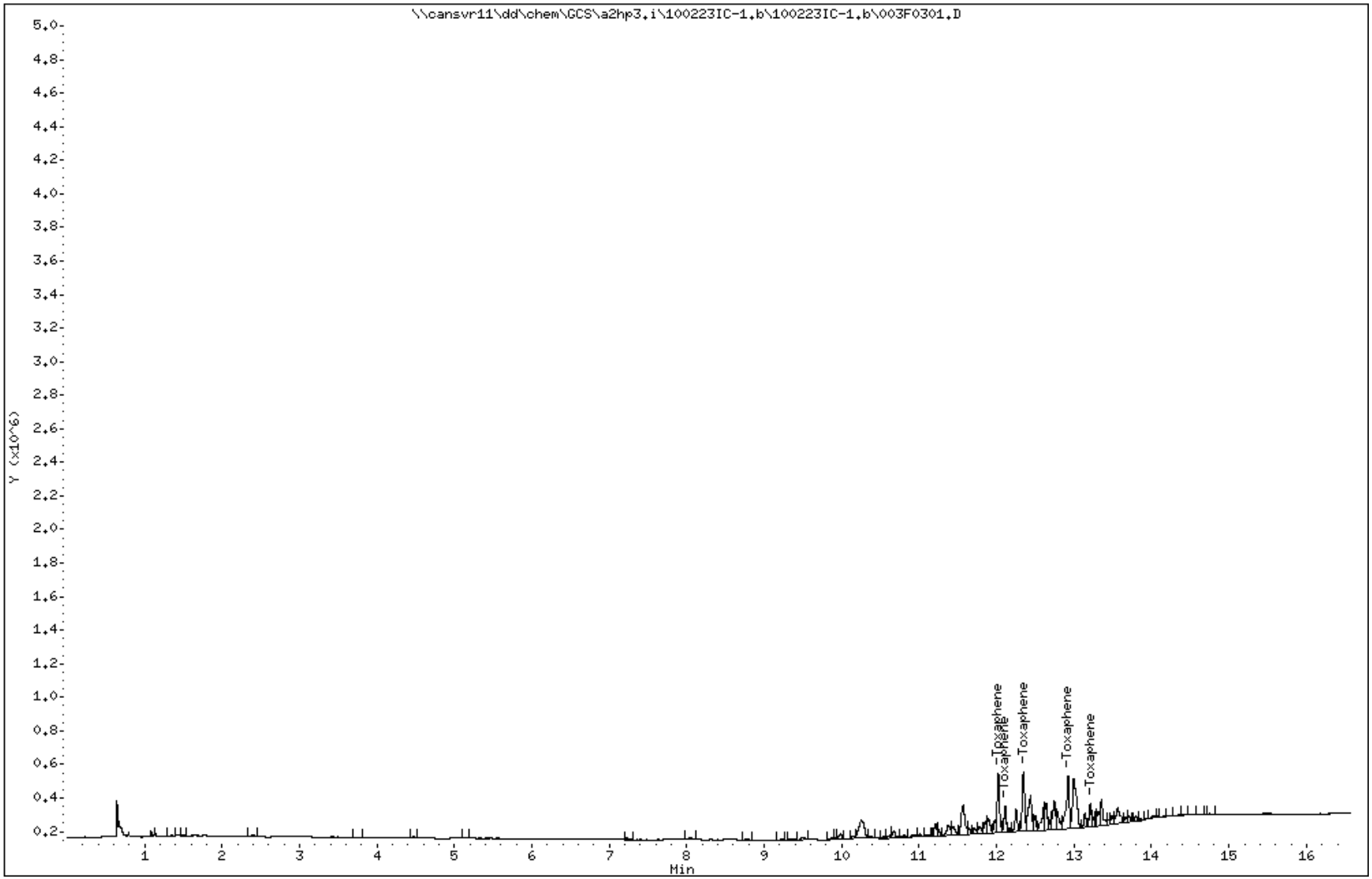
Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\003F0301.D
Lab Smp Id: TOX1 G268
Inj Date : 23-FEB-2010 14:53
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX1 G268,,1,1
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m\pest3r.m
Meth Date : 24-Feb-2010 10:09 Quant Type: ESTD
Cal Date : 23-FEB-2010 21:03 Cal File: 018F1801.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSEMIGL

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
12.022	12.022	0.000	353565	0.20000	0.1936	80.00- 120.00	100.00(M)
12.111	12.111	0.000	157556	0.20000	0.1896	114.04- 154.04	44.56
12.346	12.346	0.000	352923	0.20000	0.1880	115.64- 155.64	99.82
12.922	12.922	0.000	313850	0.20000	0.1953	52.78- 92.78	88.77
13.208	13.208	0.000	138752	0.20000	0.1793	69.36- 109.36	39.24
		Average of Peak Amounts =			0.18916		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\003F0301.D Page 1
Date : 23-FEB-2010 14:53
Client ID:
Instrument: a2hp3.i
Sample Info: TOX1 G268,,1,1
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53

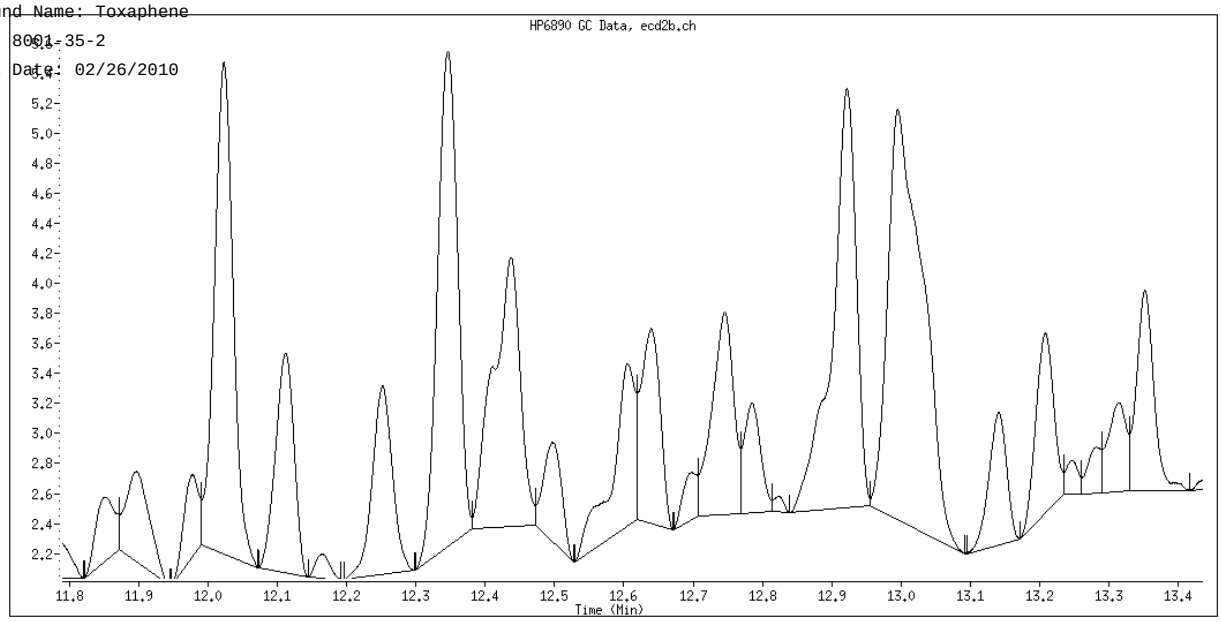


COMPOUNDS and EXP. RT REPORT

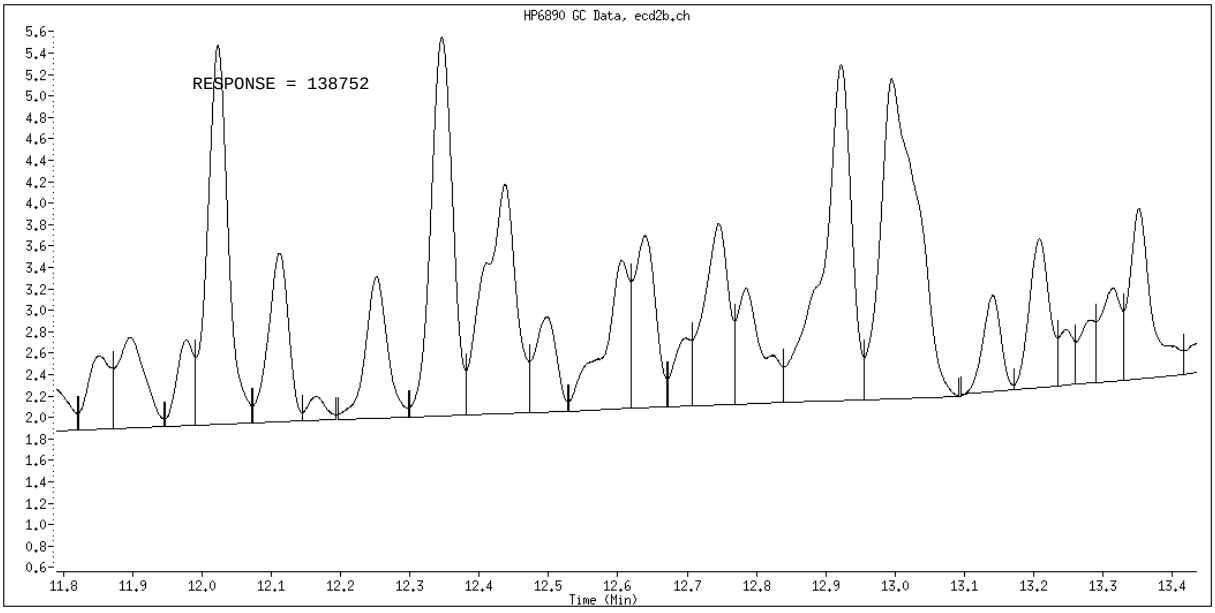
Operator: 093905 Date Acquired: 23-FEB-2010 14:53
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\003F0301.D
Lab Sample ID: TOX1 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	12.022	738149	0.194	0.194

Data File Name: 003F0301.D
Inj. Date and Time: 23-FEB-2010 14:53
Instrument ID: a2hp3.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 02/26/2010



Original Integration



Manual Integration

Manually Integrated By: roachc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\004F0401.D
Lab Smp Id: TOX2 G268
Inj Date : 23-FEB-2010 15:17
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX2 G268,,1,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m\pest3r.m
Meth Date : 24-Feb-2010 10:09 Quant Type: ESTD
Cal Date : 23-FEB-2010 21:03 Cal File: 018F1801.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSEMIGL

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
12.022	12.022	0.000	857744	0.50000	0.4683	80.00- 120.00	100.00(M)
12.111	12.111	0.000	384438	0.50000	0.4595	114.04- 154.04	44.82
12.344	12.344	0.000	885090	0.50000	0.4700	115.64- 155.64	103.19
12.922	12.922	0.000	764449	0.50000	0.4740	52.78- 92.78	89.12
13.208	13.208	0.000	360927	0.50000	0.4630	69.36- 109.36	42.08
		Average of Peak Amounts =			0.46696		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\004F0401.D

Page 1

Date : 23-FEB-2010 15:17

Client ID:

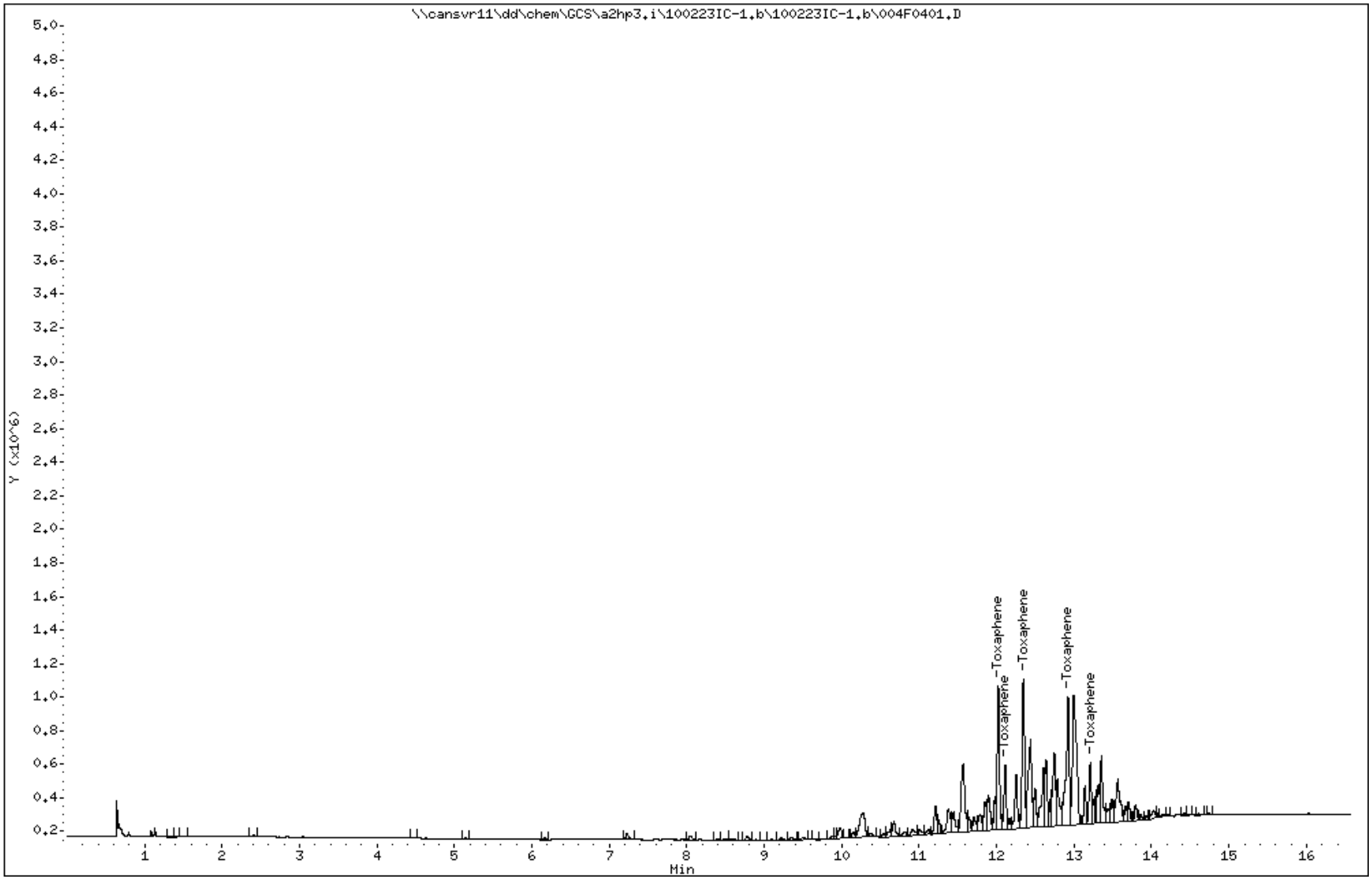
Instrument: a2hp3.i

Sample Info: TOX2 G268,,1,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

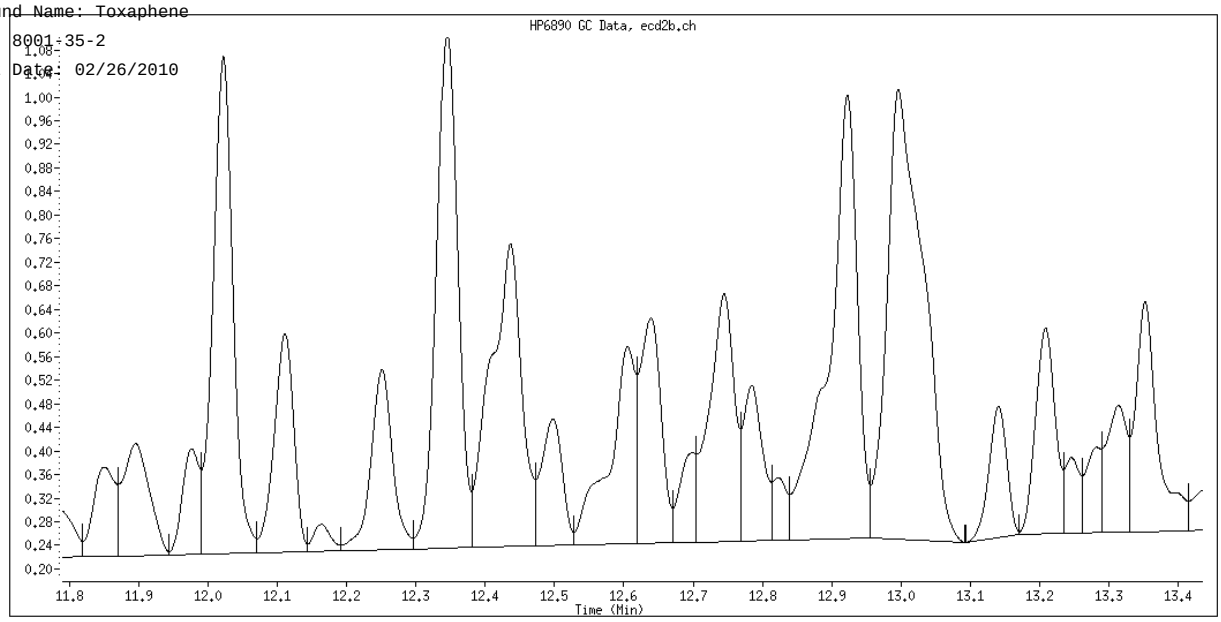


COMPOUNDS and EXP. RT REPORT

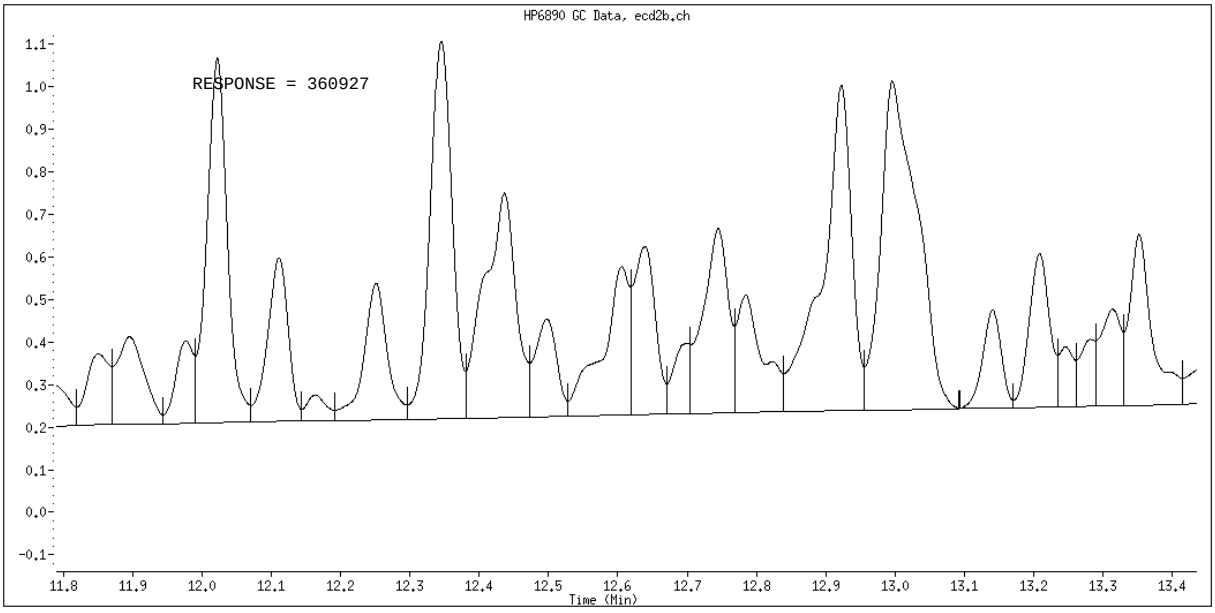
Operator: 093905 Date Acquired: 23-FEB-2010 15:17
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\004F0401.D
Lab Sample ID: TOX2 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	12.022	1773706	0.468	0.468

Data File Name: 004F0401.D
Inj. Date and Time: 23-FEB-2010 15:17
Instrument ID: a2hp3.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 02/26/2010



Original Integration



Manual Integration

Manually Integrated By: roachc
Manual Integration Reason: Baseline Event

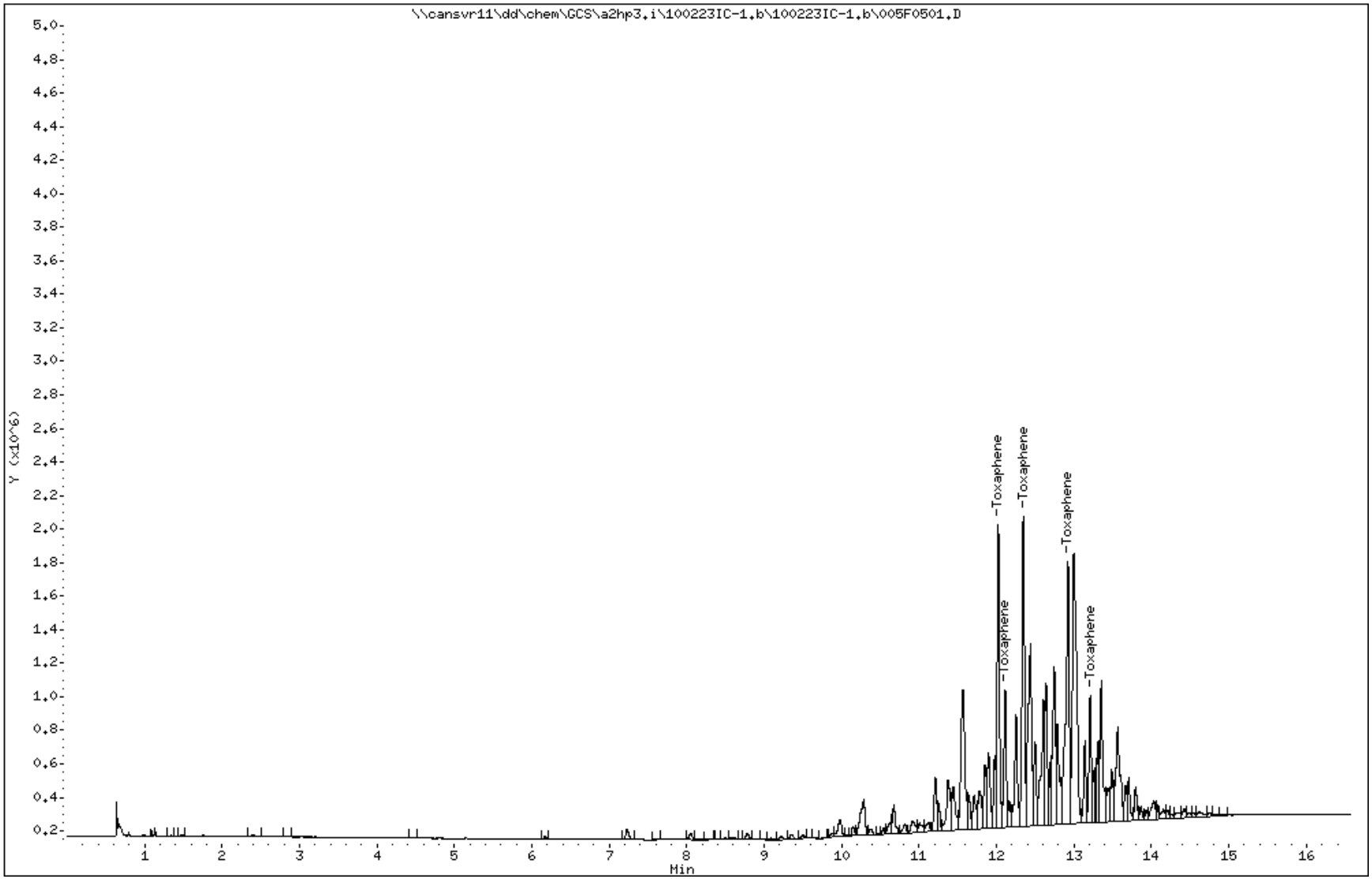
TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\005F0501.D
Lab Smp Id: TOX3 G268
Inj Date : 23-FEB-2010 15:42
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX3 G268,,1,3
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m\pest3r.m
Meth Date : 23-Feb-2010 15:59 Quant Type: ESTD
Cal Date : 12-FEB-2010 19:29 Cal File: 012F1201.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
12.021	12.021	0.000	1803579	1.00000	0.9935	80.00- 120.00	100.00
12.111	12.111	0.000	816978	1.00000	0.9757	114.04- 154.04	45.30
12.344	12.344	0.000	1843980	1.00000	0.9884	115.64- 155.64	102.24
12.921	12.921	0.000	1566662	1.00000	0.9880	52.78- 92.78	86.86
13.208	13.208	0.000	758816	1.00000	0.9865	69.36- 109.36	42.07
		Average of Peak Amounts =			0.98642		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\005F0501.D Page 1
Date : 23-FEB-2010 15:42
Client ID:
Instrument: a2hp3.i
Sample Info: TOX3 G268,,1,3
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 23-FEB-2010 15:42
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\005F0501.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	12.022	3761425	0.994	0.994

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\006F0601.D
Lab Smp Id: TOX4 G268
Inj Date : 23-FEB-2010 16:06
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX4 G268,,1,4
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m\pest3r.m
Meth Date : 24-Feb-2010 10:09 Quant Type: ESTD
Cal Date : 23-FEB-2010 21:03 Cal File: 018F1801.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSEMIGL

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
12.022	12.021	0.001	3851758	2.00000	2.136	80.00- 120.00	100.00
12.112	12.110	0.002	1795420	2.00000	2.191	114.04- 154.04	46.61
12.344	12.343	0.001	4025214	2.00000	2.169	115.64- 155.64	104.50
12.922	12.920	0.002	3398987	2.00000	2.162	52.78- 92.78	88.25
13.208	13.206	0.002	1678549	2.00000	2.226	69.36- 109.36	43.58
		Average of Peak Amounts =			2.17680		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\006F0601.D

Page 1

Date : 23-FEB-2010 16:06

Client ID:

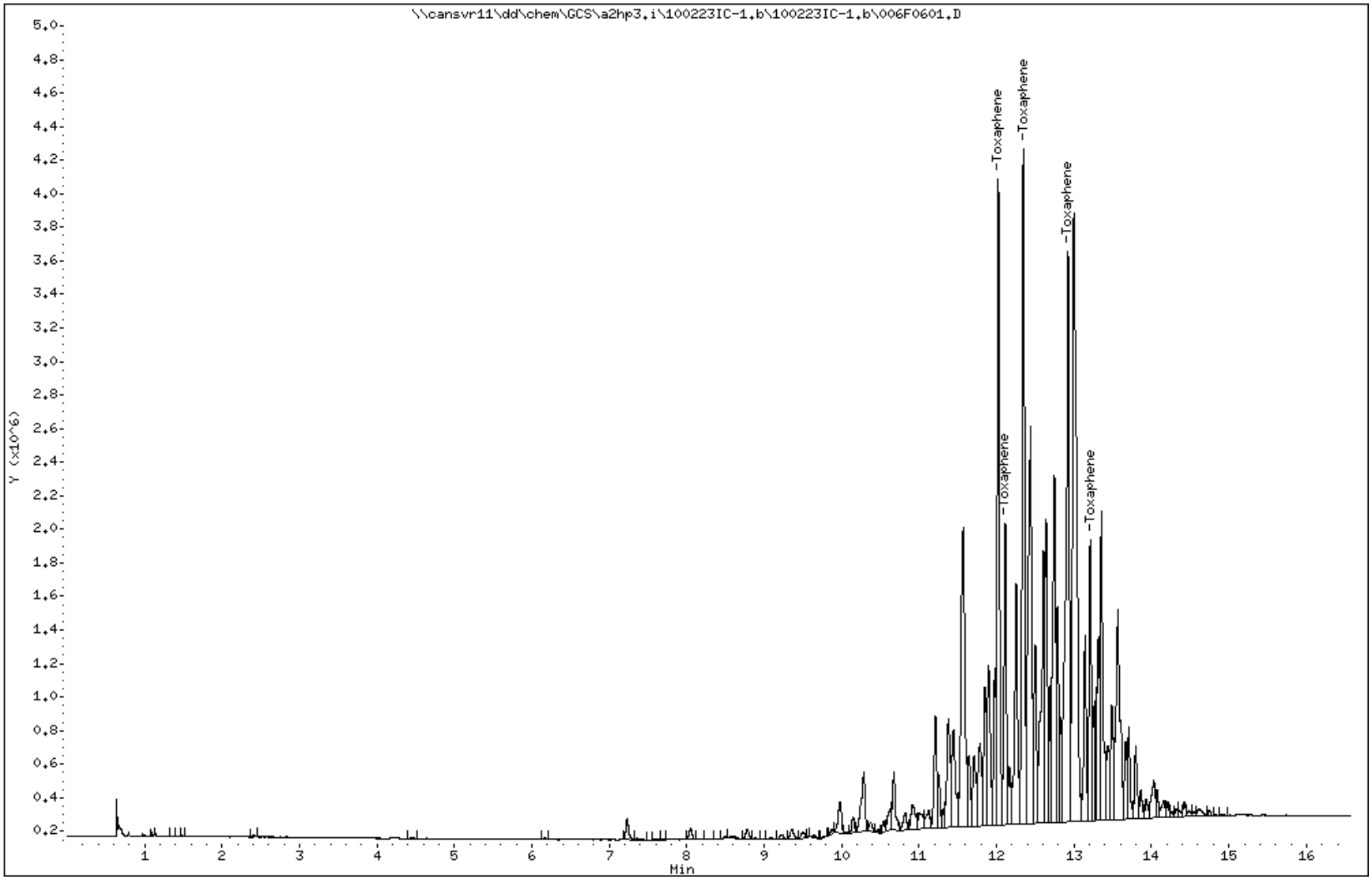
Instrument: a2hp3.i

Sample Info: TOX4 G268,,1,4

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 23-FEB-2010 16:06
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\006F0601.D
Lab Sample ID: TOX4 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	12.022	8044778	2.129	2.129

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\007F0701.D
Lab Smp Id: TOX5 G268
Inj Date : 23-FEB-2010 16:31
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX5 G268,,1,5
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\PEST3.m\pest3r.m
Meth Date : 23-Feb-2010 16:48 Quant Type: ESTD
Cal Date : 12-FEB-2010 20:18 Cal File: 014F1401.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
12.020	12.020	0.000	9729119	5.00000	5.396	80.00- 120.00	100.00
12.110	12.110	0.000	4558119	5.00000	5.562	114.04- 154.04	46.85
12.343	12.343	0.000	10117785	5.00000	5.451	115.64- 155.64	103.99
12.922	12.922	0.000	8496048	5.00000	5.404	52.78- 92.78	87.33
13.209	13.209	0.000	4422034	5.00000	5.863	69.36- 109.36	45.45
		Average of Peak Amounts =			5.53520		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100223IC-1.b\100223IC-1.b\007F0701.D

Date : 23-FEB-2010 16:31

Client ID:

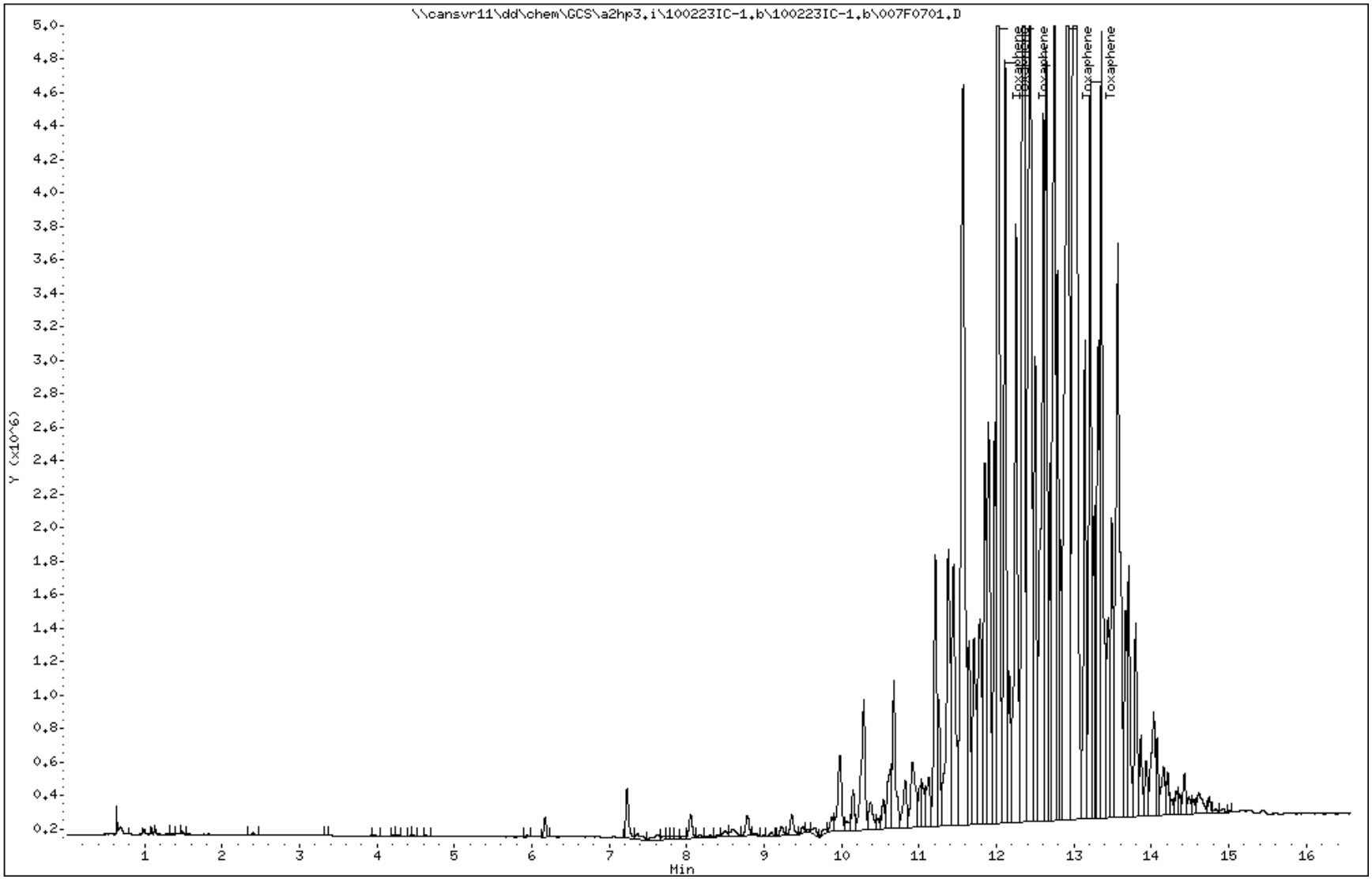
Instrument: a2hp3.i

Sample Info: TOX5 G268,,1,5

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



FORM 8
PESTICIDES ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B180429

GC Column: CLP PESTICIDES ID: 0.53 (mm) Init. Calib. Date(s): 02/11/10 03/08/10

Instrument ID: A2HP3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.83 DCB: 13.42

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	ICAL	PEM E006	03/08/10	1105				
02		TOX3 G268	03/08/10	1220				
03	ICAL	AB1 G250	03/08/10	1245	4.84		13.43	
04	ICAL	AB2 G251	03/08/10	1310	4.84		13.43	
05	ICAL	AB3 G252	03/08/10	1335	4.84		13.43	
06	ICAL	AB5 G254	03/08/10	1425	4.84		13.43	
07	ICAL	AB6 G255	03/08/10	1449	4.84		13.43	
08	ICAL	AB4 G253	03/08/10	1539	4.84		13.43	
09		MRL	03/08/10	1629				
10	LV0FHBLK	LV0FH1AA	03/08/10	1936	4.84		13.42	
11		PEM E006	03/08/10	2000				
12		AB3 G252	03/08/10	2025	4.84		13.43	
13		MRL	03/08/10	2050				
14	B12SS-038M-5	LVTQ31A8	03/08/10	2114	4.84		13.42	
15	B12SS-038M-5	LVTQ31CD	03/08/10	2139	4.84		13.42	
16	B12SS-038M-5	LVTQ31CE	03/08/10	2204	4.84		13.42	
17	ATASS-015M-5	LVTT01AD	03/08/10	2228	4.84		13.42	
18	LV0FHCHK	LV0FH1AC	03/08/10	2355	4.84		13.42	
19		TOX3 G268	03/09/10	0109				
20		AB3 G252	03/09/10	0158	4.84		13.43	
21		MRL	03/09/10	0222				
22		PEM E006	03/09/10	0908				
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp3.i Injection Date: 08-MAR-2010 12:20
Lab File ID: 005F0501.D Init. Cal. Date(s): 11-FEB-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 09:19 15:39
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
19 Toxaphene(1)	11050715	10787411	10787411	0.010	2.38269	15.00000	Averaged
(2)	10545417	10311406	10311406	0.010	2.21907	15.00000	Averaged
(3)	12788067	12189240	12189240	0.010	4.68270	15.00000	Averaged
(4)	12017329	11533187	11533187	0.010	4.02870	15.00000	Averaged
(5)	6326246	5719484	5719484	0.010	9.59119	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.58087
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\005F0501.D
Lab Smp Id: TOX3 G268
Inj Date : 08-MAR-2010 12:20
Operator : 093905   Inst ID: a2hp3.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 06:37 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39   Cal File: 013F1301.D
Als bottle: 5   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
19 Toxaphene						CAS #: 8001-35-2		
10.851	10.851	0.000	10787411	1.00000	0.9762	80.00- 120.00		100.00
11.197	11.197	0.000	10311406	1.00000	0.9778	114.04- 154.04		95.59
11.763	11.763	0.000	12189240	1.00000	0.9532	115.64- 155.64		113.00
11.843	11.843	0.000	11533187	1.00000	0.9597	52.78- 92.78		106.91
12.075	12.075	0.000	5719484	1.00000	0.9041	69.36- 109.36		53.02
		Average of Peak Amounts =			0.95420			

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\005F0501.D

Date : 08-MAR-2010 12:20

Client ID:

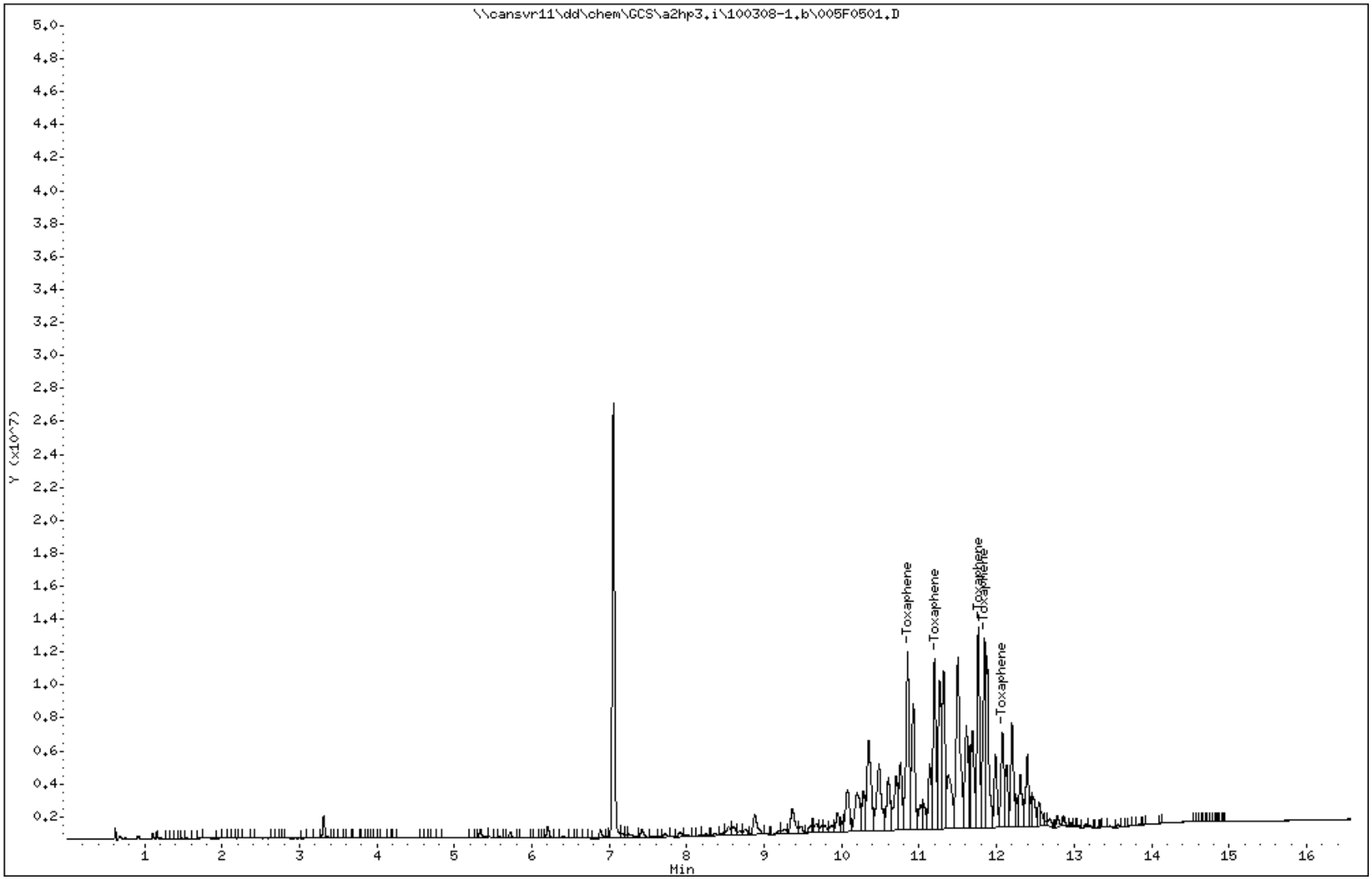
Instrument: a2hp3.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 12:20
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/005F0501.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	10.851	30030859	0.976	0.976

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\015F1501.D Page 1
Report Date: 09-Mar-2010 07:16

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00711
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.005242	104.84	70-130
5 gamma-BHC (Lindane	0.005000	0.005300	106.00	70-130
6 beta-BHC	0.005000	0.005350	106.99	70-130
7 delta-BHC	0.005000	0.005112	102.24	70-130
9 Heptachlor	0.005000	0.005119	102.38	70-130
10 Aldrin	0.005000	0.005431	108.62	70-130
12 Heptachlor epoxide	0.005000	0.005668	113.36	70-130
13 gamma-Chlordane	0.005000	0.005330	106.61	70-130
14 alpha-Chlordane	0.005000	0.005433	108.66	70-130
15 Endosulfan I	0.005000	0.005690	113.81	70-130
16 4,4'-DDE	0.005000	0.005357	107.14	70-130
17 Dieldrin	0.005000	0.005545	110.90	70-130
20 Endrin	0.005000	0.005504	110.09	70-130
22 4,4'-DDD	0.005000	0.005146	102.92	70-130
23 Endosulfan II	0.005000	0.005533	110.67	70-130
24 4,4'-DDT	0.005000	0.005141	102.82	70-130
26 Endrin aldehyde	0.005000	0.005482	109.64	70-130
27 Methoxychlor	0.005000	0.005435	108.69	70-130
28 Endosulfan sulfate	0.005000	0.005476	109.53	70-130
29 Endrin ketone	0.005000	0.005497	109.94	70-130

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PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\015F1501.D
Lab Smp Id: MRL
Inj Date : 08-MAR-2010 16:29
Operator : 093905   Inst ID: a2hp3.i
Smp Info : MRL
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 07:16 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43   Cal File: 015F1501.D
Als bottle: 15   QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: mrl.sub
Target Version: 4.14   Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.797	5.798	-0.001	3323433	0.00524	0.005242		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.302	6.303	-0.001	3005906	0.00530	0.005300		
6 beta-BHC						CAS #: 319-85-7	
6.474	6.474	0.000	1185418	0.00535	0.005350		
7 delta-BHC						CAS #: 319-86-8	
6.713	6.714	-0.001	5403985	0.00511	0.005112		
9 Heptachlor						CAS #: 76-44-8	
7.025	7.026	-0.001	5594274	0.00512	0.005119		
10 Aldrin						CAS #: 309-00-2	
7.517	7.517	0.000	2169014	0.00543	0.005431		

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   12 Heptachlor epoxide                          CAS #: 1024-57-3
8.854    8.851    0.003         5281636 0.00567  0.005668
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```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
9.129	9.128	0.001	1687034	0.00533	0.005330		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.409	9.408	0.001	1756205	0.00543	0.005433		
15 Endosulfan I					CAS #: 959-98-8		
9.622	9.622	0.000	4680276	0.00569	0.005690		
16 4,4'-DDE					CAS #: 72-55-9		
9.708	9.708	0.000	4810778	0.00536	0.005357		
17 Dieldrin					CAS #: 60-57-1		
10.058	10.059	-0.001	1946220	0.00554	0.005545		
20 Endrin					CAS #: 72-20-8		
10.408	10.407	0.001	4247921	0.00550	0.005504		
22 4,4'-DDD					CAS #: 72-54-8		
10.676	10.676	0.000	3160264	0.00515	0.005146		
23 Endosulfan II					CAS #: 33213-65-9		
10.752	10.750	0.002	1679141	0.00553	0.005533		
24 4,4'-DDT					CAS #: 50-29-3		
11.068	11.069	-0.001	3155197	0.00514	0.005141		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.355	11.356	-0.001	2808782	0.00548	0.005482		
27 Methoxychlor					CAS #: 72-43-5		
11.779	11.778	0.001	1398399	0.00543	0.005435		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.908	11.908	0.000	1545462	0.00548	0.005476		
29 Endrin ketone					CAS #: 53494-70-5		
12.218	12.219	-0.001	3375995	0.00550	0.005497		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\015F1501.D

Date : 08-MAR-2010 16:29

Client ID:

Instrument: a2hp3.i

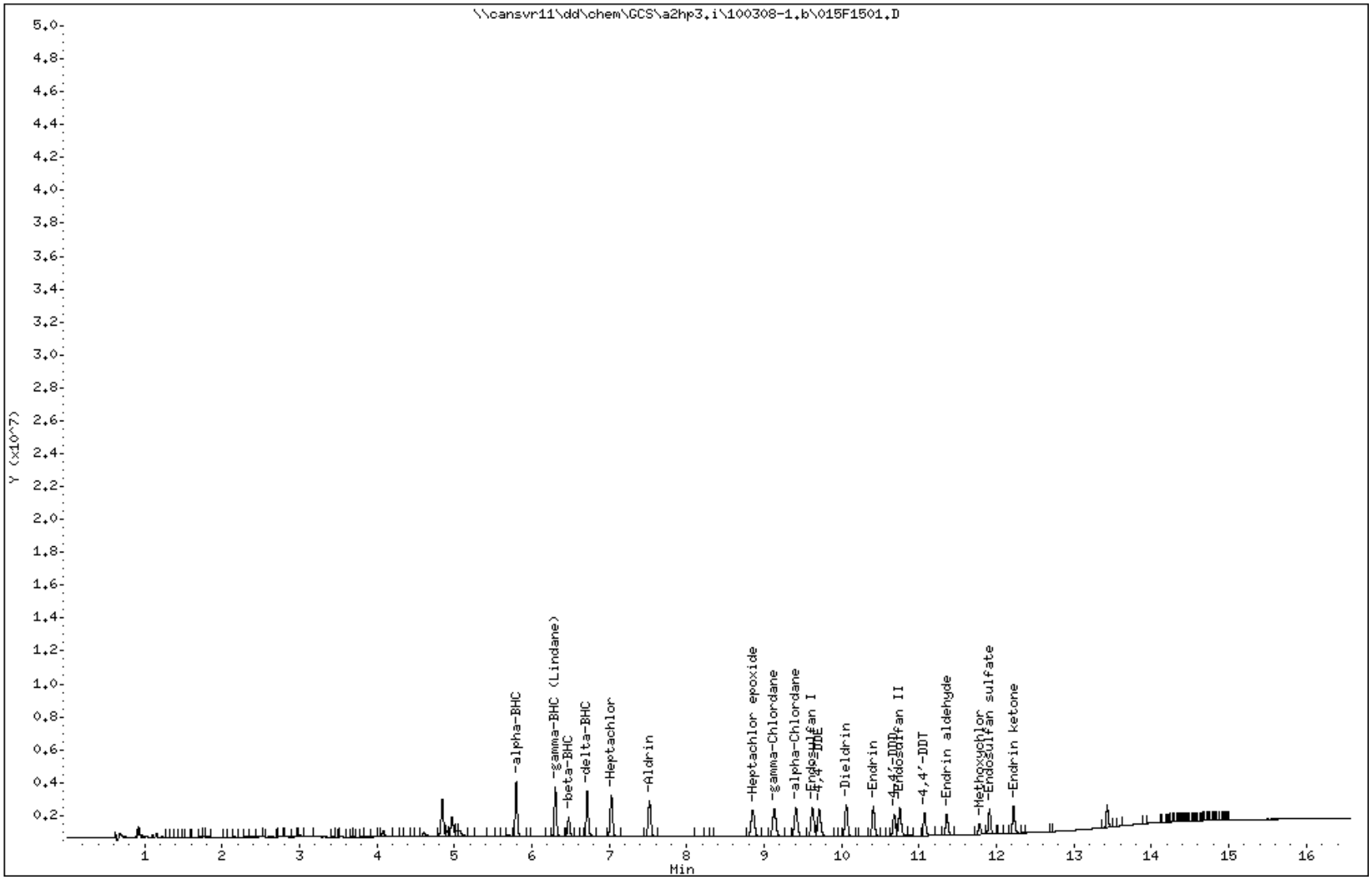
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b/023F2301.D
Report Date: 03/09/2010

EVALB Degradation Report

Instrument ID: a2hp3.i Injection Date: 08-MAR-2010 20:00
Lab File ID: 023F2301.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
11.066	55559554	4,4'-DDT
9.7060	466177	4,4'-DDE
10.674	3203248	4,4'-DDD

Percent Degradation of 4,4'-DDT: 6.20

Endrin Degradation

RT	Area	Compound
10.406	35787578	Endrin
11.354	1204663	Endrin aldehyde
12.218	2226086	Endrin ketone

Percent Degradation of Endrin: 8.75

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PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\023F2301.D
Lab Smp Id: PEM E006
Inj Date : 08-MAR-2010 20:00
Operator : 093905   Inst ID: a2hp3.i
Smp Info : PEM E006
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 07:16 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43   Cal File: 015F1501.D
Als bottle: 23   QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 12-pem.sub
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
5.796	5.798	-0.002	6445404	0.01017	0.01016		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
6.301	6.303	-0.002	5766388	0.01017	0.01017		
6 beta-BHC					CAS #: 319-85-7		
6.472	6.474	-0.002	2259011	0.01019	0.01019		
16 4,4'-DDE					CAS #: 72-55-9		
9.706	9.708	-0.002	466177	5e-004	0.0005191		
20 Endrin					CAS #: 72-20-8		
10.406	10.407	-0.001	35787578	0.04637	0.04637		
22 4,4'-DDD					CAS #: 72-54-8		
10.674	10.676	-0.002	3203248	0.00522	0.005216		
23 Endosulfan II					CAS #: 33213-65-9		
10.777	10.750	0.027	31450	1.e-004	0.0001036		
24 4,4'-DDT					CAS #: 50-29-3		
11.066	11.069	-0.003	55559554	0.09053	0.09053		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.354	11.356	-0.002	1204663	0.00235	0.002351		
27 Methoxychlor					CAS #: 72-43-5		
11.775	11.778	-0.003	54881875	0.21329	0.2133		

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--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.906  11.908   -0.002          122462  4e-004  0.0004339
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
12.217	12.219	-0.002	2226086	0.00362	0.003624		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\023F2301.D

Date : 08-MAR-2010 20:00

Client ID:

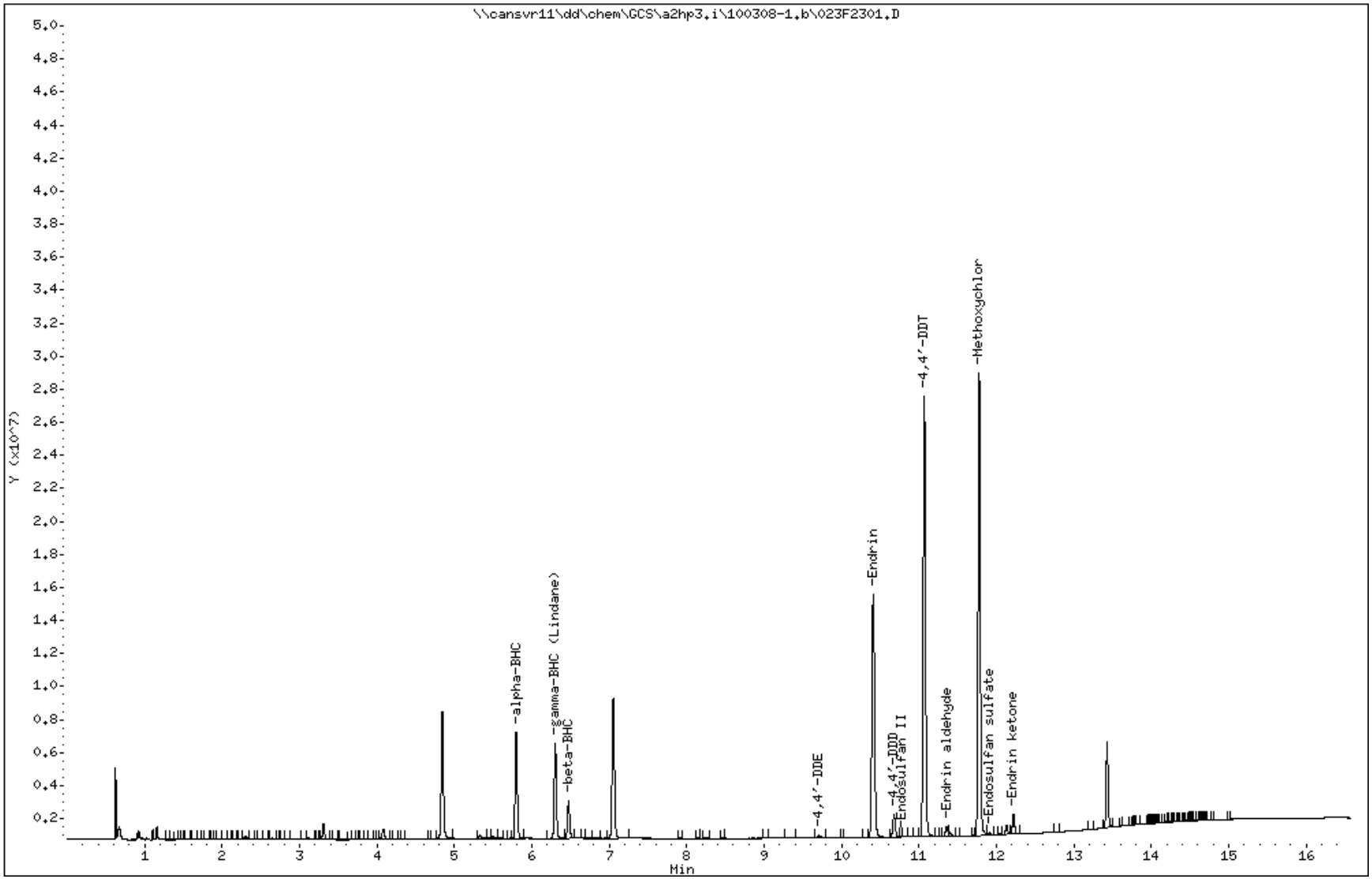
Instrument: a2hp3.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 20:00
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/023F2301.D
Lab Sample ID: PEM E006
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.797	12185813	0.010	0.010
5) gamma-BHC (Lindane)	6.302	11005488	0.010	0.010
6) beta-BHC	6.473	4390128	0.010	0.010
16) 4,4'-DDE	9.706	466177	0.001	0.001
20) Endrin	10.406	35787578	0.046	0.046
22) 4,4'-DDD	10.674	3203248	0.005	0.005
23) Endosulfan II	10.778	54408	0.000	0.000
24) 4,4'-DDT	11.066	55559554	0.091	0.091
26) Endrin aldehyde	11.354	1204663	0.002	0.002
27) Methoxychlor	11.775	54881875	0.213	0.213
28) Endosulfan sulfate	11.907	279702	0.000	0.000
29) Endrin ketone	12.218	2226086	0.004	0.004

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp3.i Injection Date: 08-MAR-2010 20:25
Lab File ID: 024F2401.D Init. Cal. Date(s): 11-FEB-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 09:19 15:39
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	384629701	388980080	388980080	0.000	-1.13106	15.00000	Averaged
4 alpha-BHC	634025555	649864560	649864560	0.010	-2.49817	15.00000	Averaged
5 gamma-BHC (Lindane)	567138418	577384160	577384160	0.010	-1.80657	15.00000	Averaged
6 beta-BHC	221584996	210771240	210771240	0.010	4.88018	15.00000	Averaged
7 delta-BHC	1.057e+09	1.075e+09	1.075e+09	0.010	-1.72736	15.00000	Averaged
9 Heptachlor	1.093e+09	986119600	986119600	0.010	9.76301	15.00000	Averaged
10 Aldrin	399394664	406883800	406883800	0.010	-1.87512	15.00000	Averaged
12 Heptachlor epoxide	931835754	949765000	949765000	0.010	-1.92408	15.00000	Averaged
13 gamma-Chlordane	316493599	316703200	316703200	0.010	-0.06623	15.00000	Averaged
14 alpha-Chlordane	323247083	321864640	321864640	0.010	0.42767	15.00000	Averaged
16 4,4'-DDE	898056364	909778880	909778880	0.010	-1.30532	15.00000	Averaged
15 Endosulfan I	822504312	841275440	841275440	0.010	-2.28219	15.00000	Averaged
17 Dieldrin	350990657	364189840	364189840	0.010	-3.76055	15.00000	Averaged
20 Endrin	771738484	789719880	789719880	0.010	-2.32999	15.00000	Averaged
22 4,4'-DDD	614122348	645259400	645259400	0.010	-5.07017	15.00000	Averaged
23 Endosulfan II	303461172	315314200	315314200	0.010	-3.90595	15.00000	Averaged
24 4,4'-DDT	613713821	567403680	567403680	0.010	7.54589	15.00000	Averaged
26 Endrin aldehyde	512352748	532019720	532019720	0.010	-3.83856	15.00000	Averaged
27 Methoxychlor	257311429	250875280	250875280	0.010	2.50131	15.00000	Averaged
28 Endosulfan sulfate	282209341	293838200	293838200	0.010	-4.12065	15.00000	Averaged
29 Endrin ketone	614171466	640898520	640898520	0.010	-4.35173	15.00000	Averaged
$ 30 Decachlorobiphenyl	238443684	260460520	260460520	0.010	-9.23356	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 14.28469
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\024F2401.D
Lab Smp Id: AB3 G252
Inj Date : 08-MAR-2010 20:25
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB3 G252,,2
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 07:20 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43   Cal File: 015F1501.D
Als bottle: 24   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-ab.sub
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.842	4.841	0.001	9724502	0.02500	0.02528			
4 alpha-BHC						CAS #: 319-84-6		
5.796	5.796	0.000	16246614	0.02500	0.02562			
5 gamma-BHC (Lindane)						CAS #: 58-89-9		
6.301	6.301	0.000	14434604	0.02500	0.02545			
6 beta-BHC						CAS #: 319-85-7		
6.473	6.473	0.000	5269281	0.02500	0.02378			
7 delta-BHC						CAS #: 319-86-8		
6.712	6.712	0.000	26883445	0.02500	0.02543			
9 Heptachlor						CAS #: 76-44-8		
7.024	7.030	-0.006	24652990	0.02500	0.02256			
10 Aldrin						CAS #: 309-00-2		
7.516	7.515	0.001	10172095	0.02500	0.02547			(M)
12 Heptachlor epoxide						CAS #: 1024-57-3		
8.849	8.850	-0.001	23744125	0.02500	0.02548			
13 gamma-Chlordane						CAS #: 5103-74-2		
9.127	9.125	0.002	7917580	0.02500	0.02502			
14 alpha-Chlordane						CAS #: 5103-71-9		
9.406	9.407	-0.001	8046616	0.02500	0.02489			

```
--------------------------------------------------------------------------------
   16 4,4'-DDE                                    CAS #: 72-55-9
9.708    9.707    0.001        22744472 0.02500  0.02533
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
9.620	9.620	0.000	21031886	0.02500	0.02557		
17 Dieldrin					CAS #: 60-57-1		
10.056	10.057	-0.001	9104746	0.02500	0.02594		
20 Endrin					CAS #: 72-20-8		
10.408	10.406	0.002	19742997	0.02500	0.02558		
22 4,4'-DDD					CAS #: 72-54-8		
10.675	10.673	0.002	16131485	0.02500	0.02627		
23 Endosulfan II					CAS #: 33213-65-9		
10.750	10.749	0.001	7882855	0.02500	0.02598		
24 4,4'-DDT					CAS #: 50-29-3		
11.067	11.066	0.001	14185092	0.02500	0.02311		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.355	11.354	0.001	13300493	0.02500	0.02596		
27 Methoxychlor					CAS #: 72-43-5		
11.776	11.774	0.002	6271882	0.02500	0.02437		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.906	11.905	0.001	7345955	0.02500	0.02603		
29 Endrin ketone					CAS #: 53494-70-5		
12.217	12.216	0.001	16022463	0.02500	0.02609		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.427	13.425	0.002	6511513	0.02500	0.02731		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\024F2401.D

Date : 08-MAR-2010 20:25

Client ID:

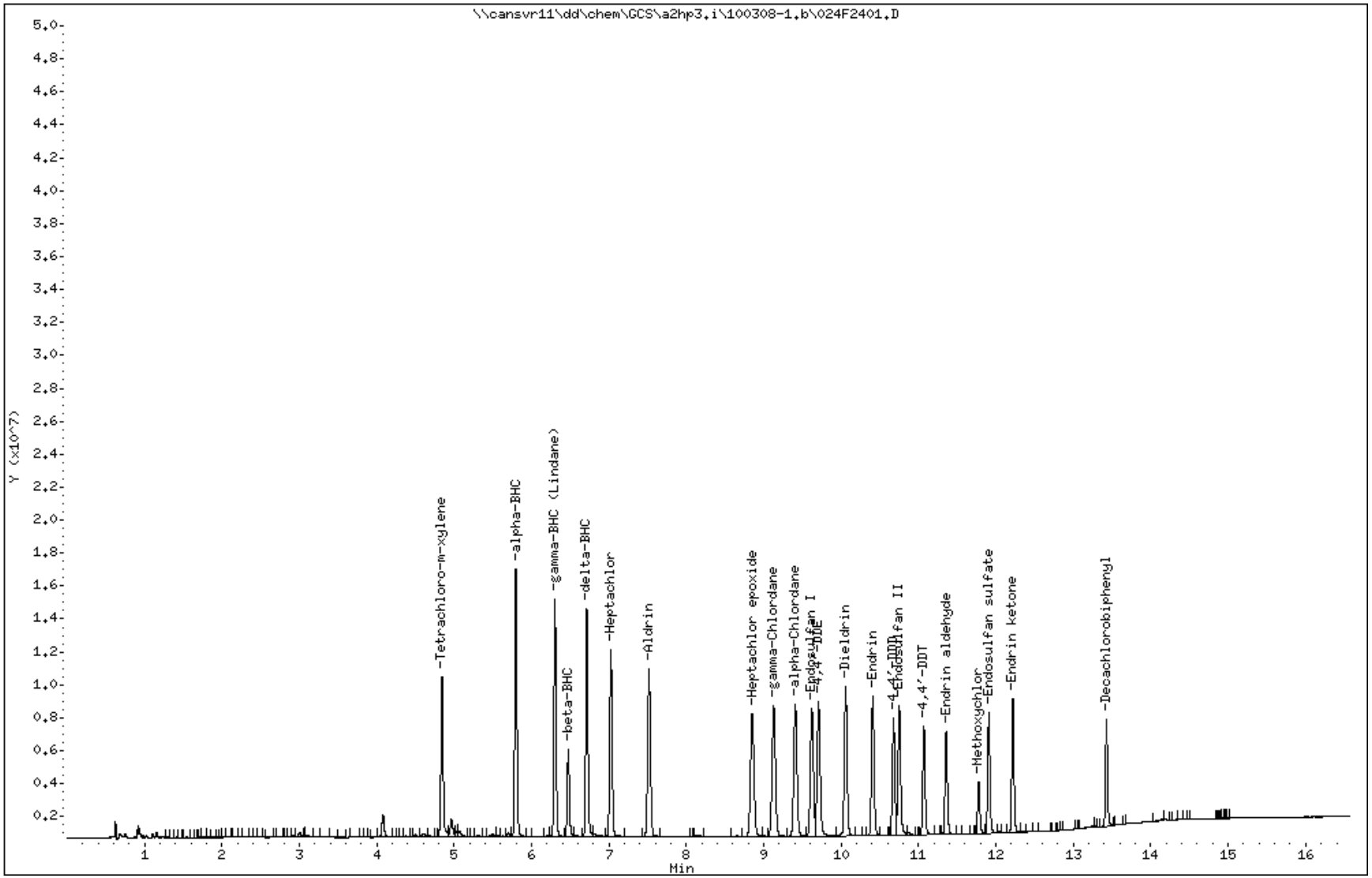
Instrument: a2hp3.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

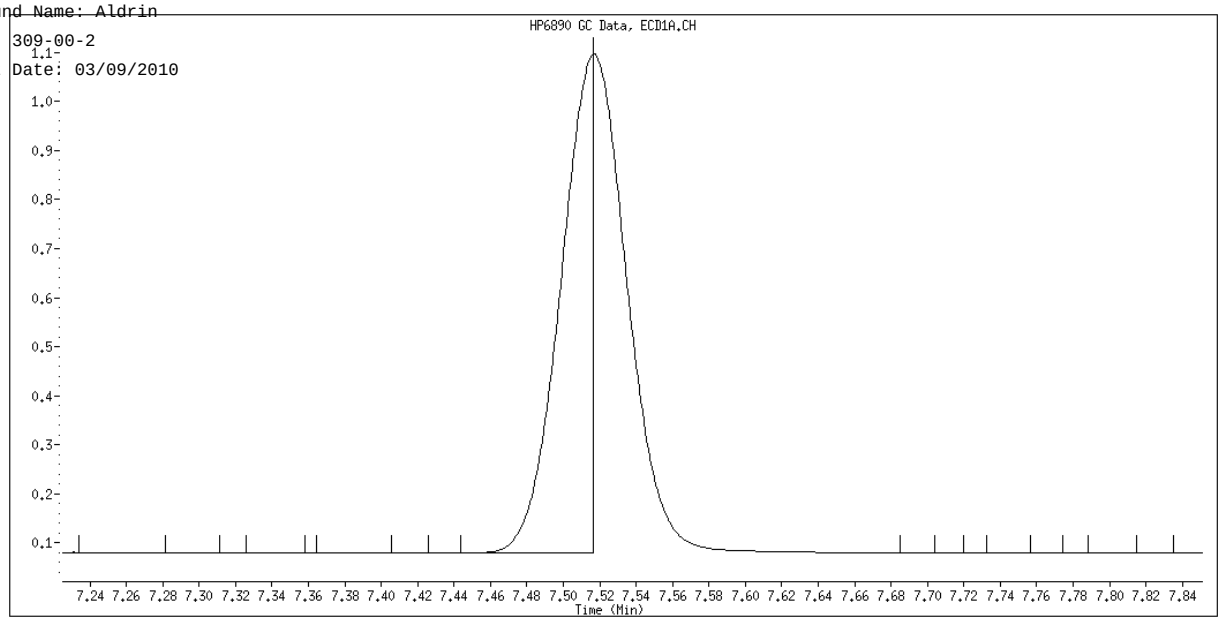


COMPOUNDS and EXP. RT REPORT

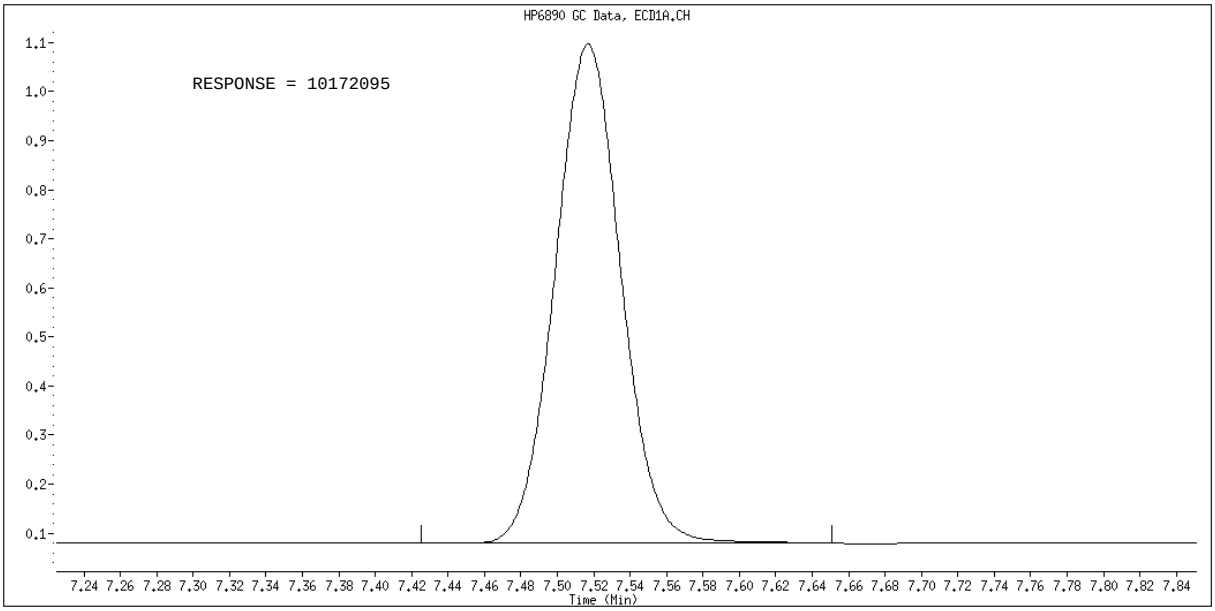
Operator: 093905 Date Acquired: 08-MAR-2010 20:25
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\024F2401.D
Lab Sample ID: AB3 G252
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.843	19709919	0.025	0.025
4) alpha-BHC	5.797	30618282	0.026	0.026
5) gamma-BHC (Lindane)	6.302	27219020	0.025	0.025
6) beta-BHC	6.473	10302559	0.024	0.024
7) delta-BHC	6.713	26883445	0.025	0.025
9) Heptachlor	7.024	24652990	0.023	0.023
10) Aldrin	7.517	25641073	0.025	0.025
12) Heptachlor epoxide	8.849	23744125	0.025	0.025
13) gamma-Chlordane	9.128	24085364	0.025	0.025
14) alpha-Chlordane	9.407	23010112	0.025	0.025
15) Endosulfan I	9.621	21031886	0.026	0.026
16) 4,4'-DDE	9.708	22744472	0.025	0.025
17) Dieldrin	10.057	22762408	0.026	0.026
20) Endrin	10.408	19742997	0.026	0.026
22) 4,4'-DDD	10.676	16131485	0.026	0.026
23) Endosulfan II	10.750	18838639	0.026	0.026
24) 4,4'-DDT	11.068	14185092	0.023	0.023
26) Endrin aldehyde	11.355	13300493	0.026	0.026
27) Methoxychlor	11.777	6271882	0.024	0.024
28) Endosulfan sulfate	11.907	14813189	0.026	0.026
29) Endrin ketone	12.218	16022463	0.026	0.026
30) Decachlorobiphenyl	13.428	12127552	0.027	0.027

Data File Name: 024F2401.D
Inj. Date and Time: 08-MAR-2010 20:25
Instrument ID: a2hp3.i
Client ID:
Compound Name: Aldrin
CAS #: 309-00-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

RECOVERY REPORT

Client Name:
Client SDG: SDGa00711
Sample Matrix: LIQUID
Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW
Operator: 093905
Data Type: GC MULTI COMP
SampleType: MRL
SpikeList File: MRL.spk
Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.005395	107.90	70-130
5 gamma-BHC (Lindane	0.005000	0.005355	107.11	70-130
6 beta-BHC	0.005000	0.005516	110.32	70-130
7 delta-BHC	0.005000	0.005505	110.10	70-130
9 Heptachlor	0.005000	0.005026	100.53	70-130
10 Aldrin	0.005000	0.005548	110.97	70-130
12 Heptachlor epoxide	0.005000	0.005833	116.67	70-130
13 gamma-Chlordane	0.005000	0.005465	109.30	70-130
14 alpha-Chlordane	0.005000	0.005569	111.38	70-130
15 Endosulfan I	0.005000	0.005830	116.61	70-130
16 4,4'-DDE	0.005000	0.005518	110.36	70-130
17 Dieldrin	0.005000	0.005707	114.14	70-130
20 Endrin	0.005000	0.005726	114.51	70-130
22 4,4'-DDD	0.005000	0.005682	113.63	70-130
23 Endosulfan II	0.005000	0.005903	118.07	70-130
24 4,4'-DDT	0.005000	0.005083	101.66	70-130
26 Endrin aldehyde	0.005000	0.006008	120.15	70-130
27 Methoxychlor	0.005000	0.005831	116.61	70-130
28 Endosulfan sulfate	0.005000	0.005970	119.39	70-130
29 Endrin ketone	0.005000	0.005830	116.60	70-130

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\025F2501.D
Lab Smp Id: MRL
Inj Date : 08-MAR-2010 20:50
Operator : 093905   Inst ID: a2hp3.i
Smp Info : MRL
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 07:17 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43   Cal File: 015F1501.D
Als bottle: 25   QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: mrl.sub
Target Version: 4.14   Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.796	5.796	0.000	3420416	0.00539	0.005395		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.301	6.301	0.000	3037246	0.00536	0.005355		
6 beta-BHC						CAS #: 319-85-7	
6.473	6.473	0.000	1222214	0.00552	0.005516		
7 delta-BHC						CAS #: 319-86-8	
6.712	6.712	0.000	5819124	0.00550	0.005505		
9 Heptachlor						CAS #: 76-44-8	
7.025	7.024	0.001	5492758	0.00503	0.005026		
10 Aldrin						CAS #: 309-00-2	
7.516	7.516	0.000	2215965	0.00555	0.005548		

```
--------------------------------------------------------------------------------
   12 Heptachlor epoxide                          CAS #: 1024-57-3
8.851    8.849    0.002         5435728 0.00583  0.005833
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
9.128	9.127	0.001	1729574	0.00546	0.005465		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.406	9.406	0.000	1800085	0.00557	0.005569		
15 Endosulfan I					CAS #: 959-98-8		
9.621	9.620	0.001	4795544	0.00583	0.005830		
16 4,4'-DDE					CAS #: 72-55-9		
9.707	9.708	-0.001	4955278	0.00552	0.005518		
17 Dieldrin					CAS #: 60-57-1		
10.058	10.056	0.002	2003119	0.00571	0.005707		
20 Endrin					CAS #: 72-20-8		
10.407	10.408	-0.001	4418714	0.00573	0.005726		
22 4,4'-DDD					CAS #: 72-54-8		
10.676	10.675	0.001	3489202	0.00568	0.005682		
23 Endosulfan II					CAS #: 33213-65-9		
10.751	10.750	0.001	1791468	0.00590	0.005903		
24 4,4'-DDT					CAS #: 50-29-3		
11.067	11.067	0.000	3119578	0.00508	0.005083		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.356	11.355	0.001	3078002	0.00601	0.006008		
27 Methoxychlor					CAS #: 72-43-5		
11.777	11.776	0.001	1500282	0.00583	0.005831		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.907	11.906	0.001	1684693	0.00597	0.005970		
29 Endrin ketone					CAS #: 53494-70-5		
12.218	12.217	0.001	3580599	0.00583	0.005830		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\025F2501.D

Date : 08-MAR-2010 20:50

Client ID:

Instrument: a2hp3.i

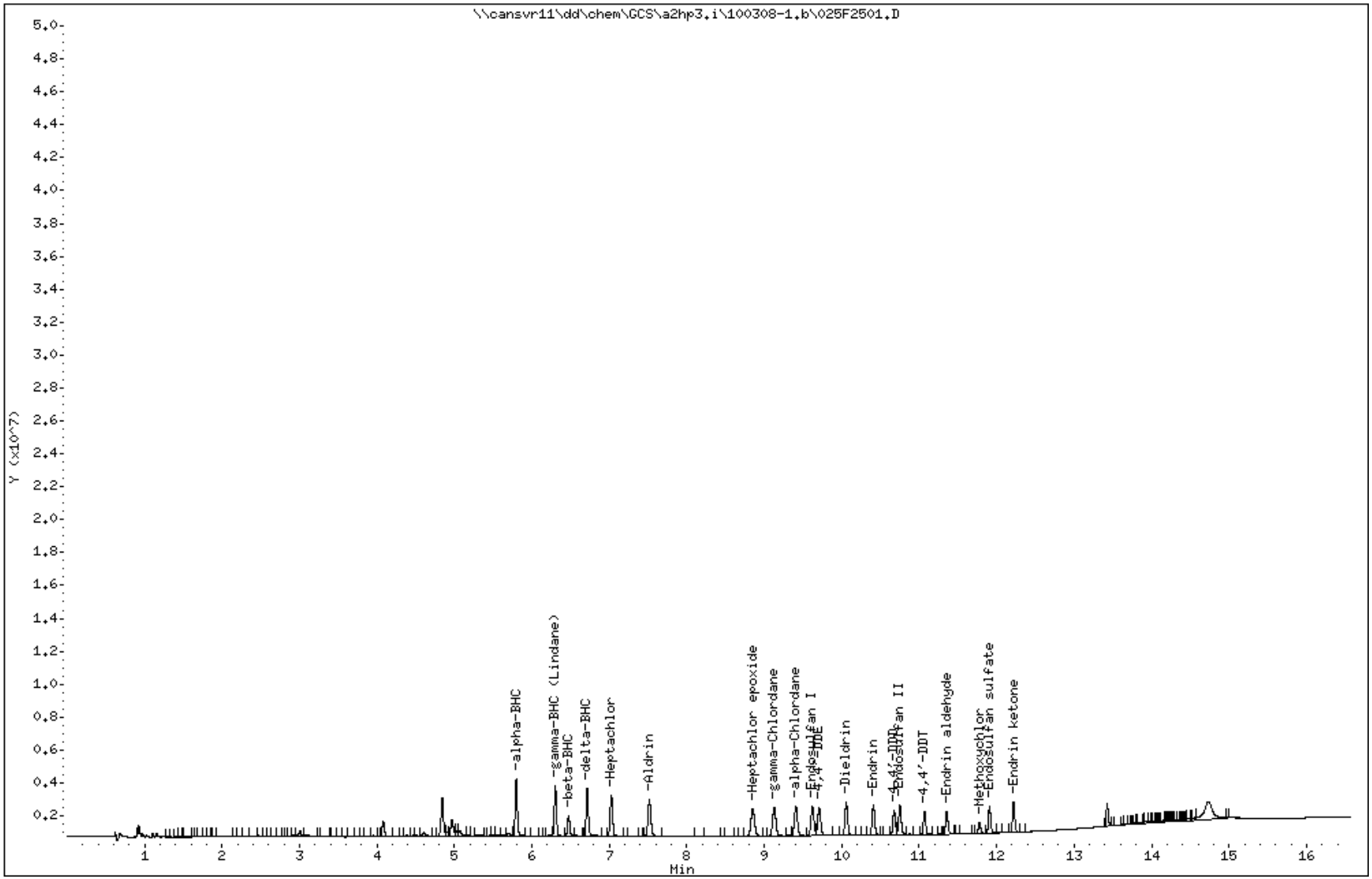
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp3.i Injection Date: 09-MAR-2010 01:09
Lab File ID: 035F3501.D Init. Cal. Date(s): 11-FEB-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 09:19 15:39
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
19 Toxaphene(1)	11050715	10717504	10717504	0.010	3.01529	15.00000	Averaged	
(2)	10545417	9415363	9415363	0.010	10.71606	15.00000	Averaged	
(3)	12788067	11406172	11406172	0.010	10.80613	15.00000	Averaged	
(4)	12017329	10396414	10396414	0.010	13.48814	15.00000	Averaged	
(5)	6326246	5367252	5367252	0.010	15.15898	15.00000	Averaged	<-

Average %D / Drift Results.
Calculated Average %D/Drift = 10.63692
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\035F3501.D
Lab Smp Id: TOX3 G268
Inj Date : 09-MAR-2010 01:09
Operator : 093905   Inst ID: a2hp3.i
Smp Info : TOX3 G268,,2
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 07:19 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43   Cal File: 015F1501.D
Als bottle: 35   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 16-toxaph.sub
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
19 Toxaphene						CAS #: 8001-35-2		
10.850	10.850	0.000	10717504	1.00000	0.9698	80.00- 120.00		100.00(M)
11.197	11.197	0.000	9415363	1.00000	0.8928	114.04- 154.04		87.85
11.762	11.762	0.000	11406172	1.00000	0.8919	115.64- 155.64		106.43
11.843	11.843	0.000	10396414	1.00000	0.8651	52.78- 92.78		97.00
12.072	12.072	0.000	5367252	1.00000	0.8484	69.36- 109.36		50.08
		Average of Peak Amounts =			0.89360			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\035F3501.D

Date : 09-MAR-2010 01:09

Client ID:

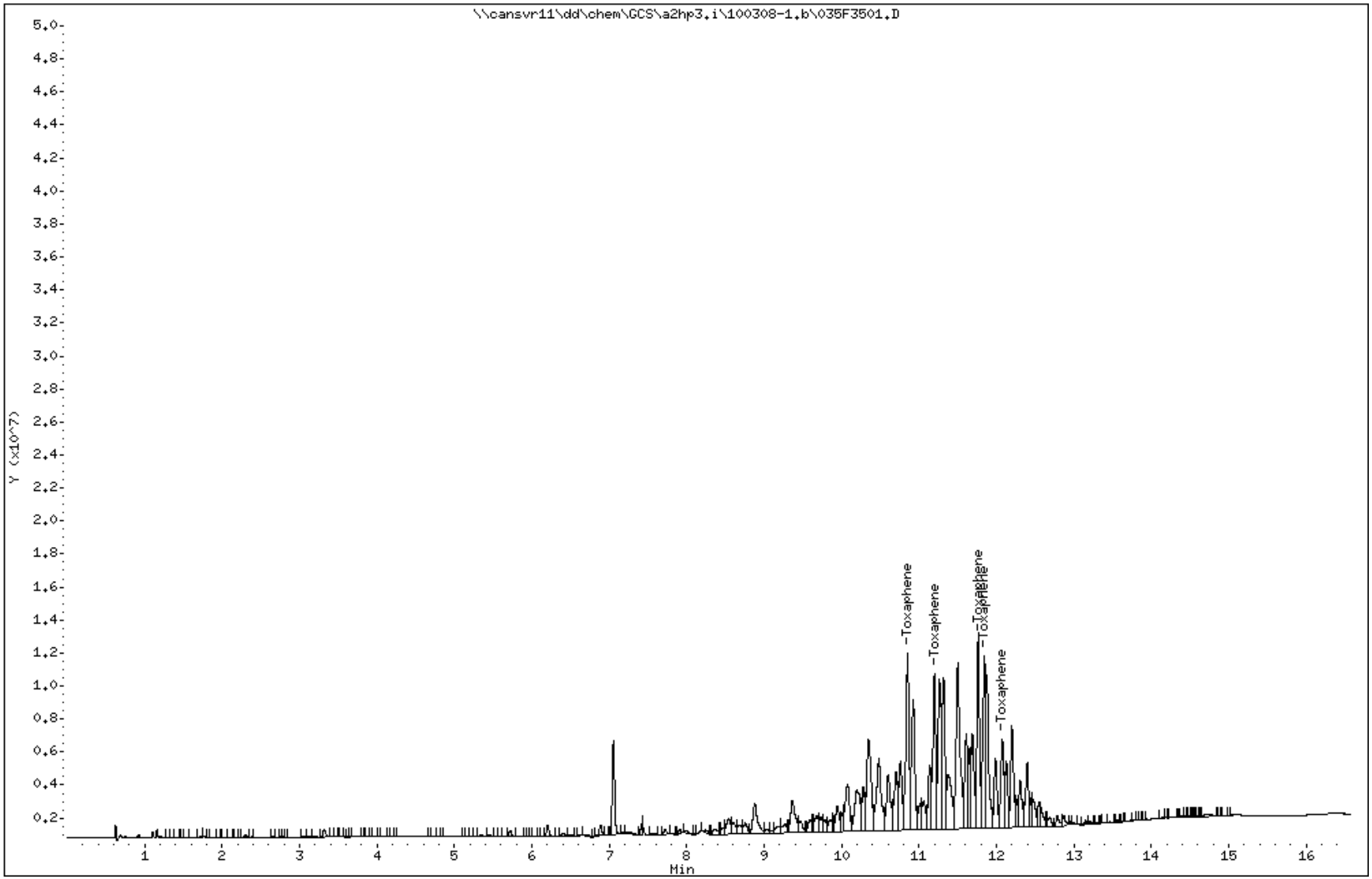
Instrument: a2hp3.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

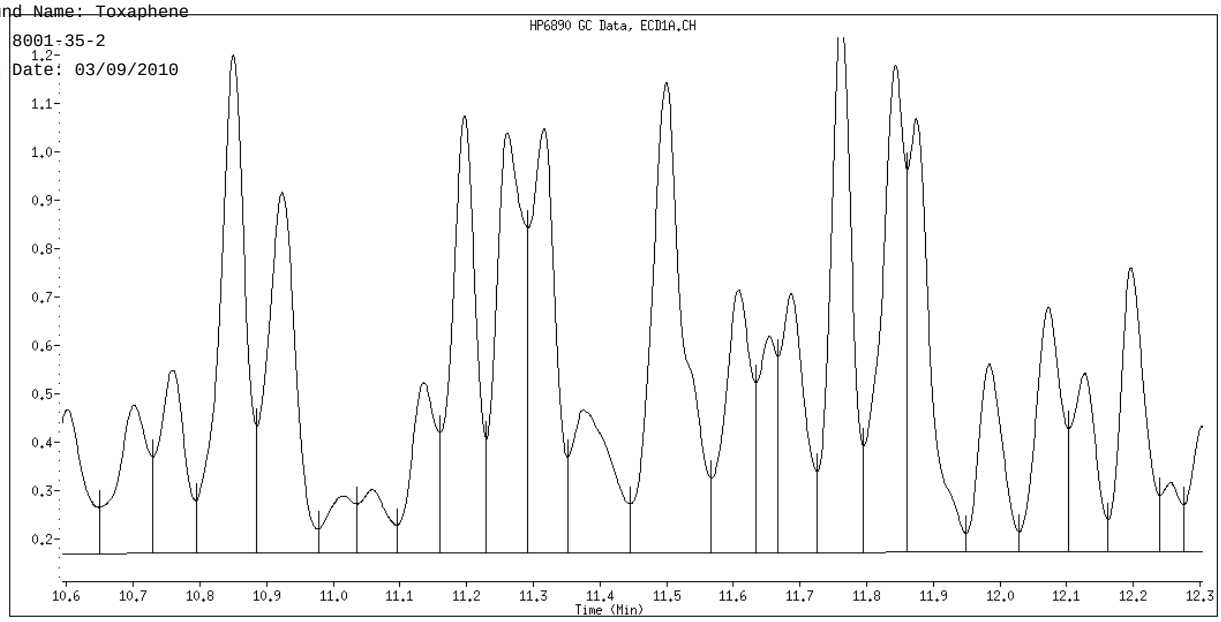


COMPOUNDS and EXP. RT REPORT

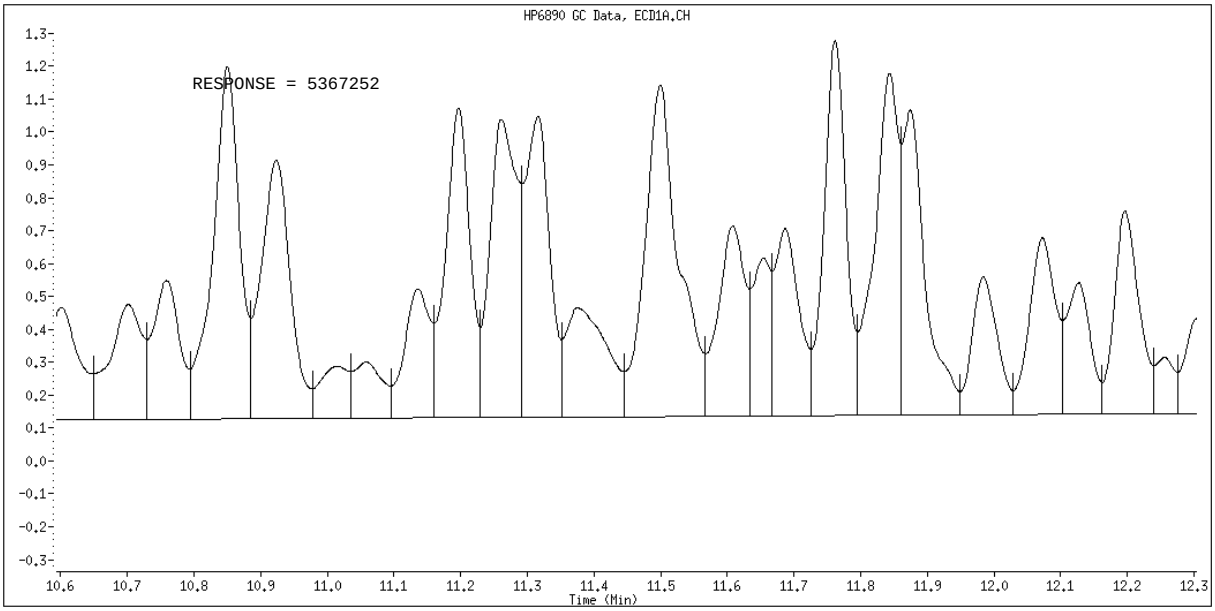
Operator: 093905 Date Acquired: 09-MAR-2010 01:09
Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\035F3501.D
Lab Sample ID: TOX3 G268
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	10.850	30078246	0.970	0.970

Data File Name: 035F3501.D
Inj. Date and Time: 09-MAR-2010 01:09
Instrument ID: a2hp3.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp3.i Injection Date: 09-MAR-2010 01:58
Lab File ID: 037F3701.D Init. Cal. Date(s): 11-FEB-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 09:19 15:39
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	384629701	413891680	413891680	0.000	-7.60783	15.00000	Averaged
4 alpha-BHC	634025555	681959360	681959360	0.010	-7.56023	15.00000	Averaged
5 gamma-BHC (Lindane)	567138418	609788600	609788600	0.010	-7.52024	15.00000	Averaged
6 beta-BHC	221584996	224621480	224621480	0.010	-1.37035	15.00000	Averaged
7 delta-BHC	1.057e+09	1.139e+09	1.139e+09	0.010	-7.77134	15.00000	Averaged
9 Heptachlor	1.093e+09	1.123e+09	1.123e+09	0.010	-2.77300	15.00000	Averaged
10 Aldrin	399394664	423398240	423398240	0.010	-6.00999	15.00000	Averaged
12 Heptachlor epoxide	931835754	998999040	998999040	0.010	-7.20763	15.00000	Averaged
13 gamma-Chlordane	316493599	333252440	333252440	0.010	-5.29516	15.00000	Averaged
14 alpha-Chlordane	323247083	340960440	340960440	0.010	-5.47982	15.00000	Averaged
16 4,4'-DDE	898056364	952477120	952477120	0.010	-6.05984	15.00000	Averaged
15 Endosulfan I	822504312	885097040	885097040	0.010	-7.61002	15.00000	Averaged
17 Dieldrin	350990657	383538080	383538080	0.010	-9.27302	15.00000	Averaged
20 Endrin	771738484	834519240	834519240	0.010	-8.13498	15.00000	Averaged
22 4,4'-DDD	614122348	703840720	703840720	0.010	-14.60920	15.00000	Averaged
23 Endosulfan II	303461172	335701040	335701040	0.010	-10.62405	15.00000	Averaged
24 4,4'-DDT	613713821	573170640	573170640	0.010	6.60620	15.00000	Averaged
26 Endrin aldehyde	512352748	552043560	552043560	0.010	-7.74677	15.00000	Averaged
27 Methoxychlor	257311429	256553160	256553160	0.010	0.29469	15.00000	Averaged
28 Endosulfan sulfate	282209341	306864800	306864800	0.010	-8.73659	15.00000	Averaged
29 Endrin ketone	614171466	662640720	662640720	0.010	-7.89181	15.00000	Averaged
$ 30 Decachlorobiphenyl	238443684	266715960	266715960	0.010	-11.85700	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 7.18363
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\037F3701.D
Lab Smp Id: AB3 G252
Inj Date : 09-MAR-2010 01:58
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB3 G252,,2
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 07:19 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43   Cal File: 015F1501.D
Als bottle: 37   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-ab.sub
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.841	4.841	0.000	10347292	0.02500	0.02690		
4 alpha-BHC						CAS #: 319-84-6	
5.796	5.796	0.000	17048984	0.02500	0.02689		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.301	6.301	0.000	15244715	0.02500	0.02688		
6 beta-BHC						CAS #: 319-85-7	
6.473	6.473	0.000	5615537	0.02500	0.02534		
7 delta-BHC						CAS #: 319-86-8	
6.713	6.713	0.000	28480686	0.02500	0.02694		
9 Heptachlor						CAS #: 76-44-8	
7.025	7.025	0.000	28077862	0.02500	0.02569		
10 Aldrin						CAS #: 309-00-2	
7.516	7.516	0.000	10584956	0.02500	0.02650		
12 Heptachlor epoxide						CAS #: 1024-57-3	
8.850	8.850	0.000	24974976	0.02500	0.02680		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.127	9.127	0.000	8331311	0.02500	0.02632		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.406	9.406	0.000	8524011	0.02500	0.02637		

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   16 4,4'-DDE                                    CAS #: 72-55-9
9.707    9.707    0.000        23811928 0.02500  0.02651
--------------------------------------------------------------------------------
```

				AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
15 Endosulfan I						CAS #: 959-98-8	
9.620	9.620	0.000	22127426	0.02500	0.02690		
17 Dieldrin						CAS #: 60-57-1	
10.057	10.057	0.000	9588452	0.02500	0.02732		
20 Endrin						CAS #: 72-20-8	
10.406	10.406	0.000	20862981	0.02500	0.02703		
22 4,4'-DDD						CAS #: 72-54-8	
10.675	10.675	0.000	17596018	0.02500	0.02865		
23 Endosulfan II						CAS #: 33213-65-9	
10.749	10.749	0.000	8392526	0.02500	0.02766		
24 4,4'-DDT						CAS #: 50-29-3	
11.067	11.067	0.000	14329266	0.02500	0.02335		
26 Endrin aldehyde						CAS #: 7421-93-4	
11.353	11.353	0.000	13801089	0.02500	0.02694		
27 Methoxychlor						CAS #: 72-43-5	
11.775	11.775	0.000	6413829	0.02500	0.02493		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.905	11.905	0.000	7671620	0.02500	0.02718		
29 Endrin ketone						CAS #: 53494-70-5	
12.217	12.217	0.000	16566018	0.02500	0.02697		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.425	13.425	0.000	6667899	0.02500	0.02796		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\037F3701.D

Date : 09-MAR-2010 01:58

Client ID:

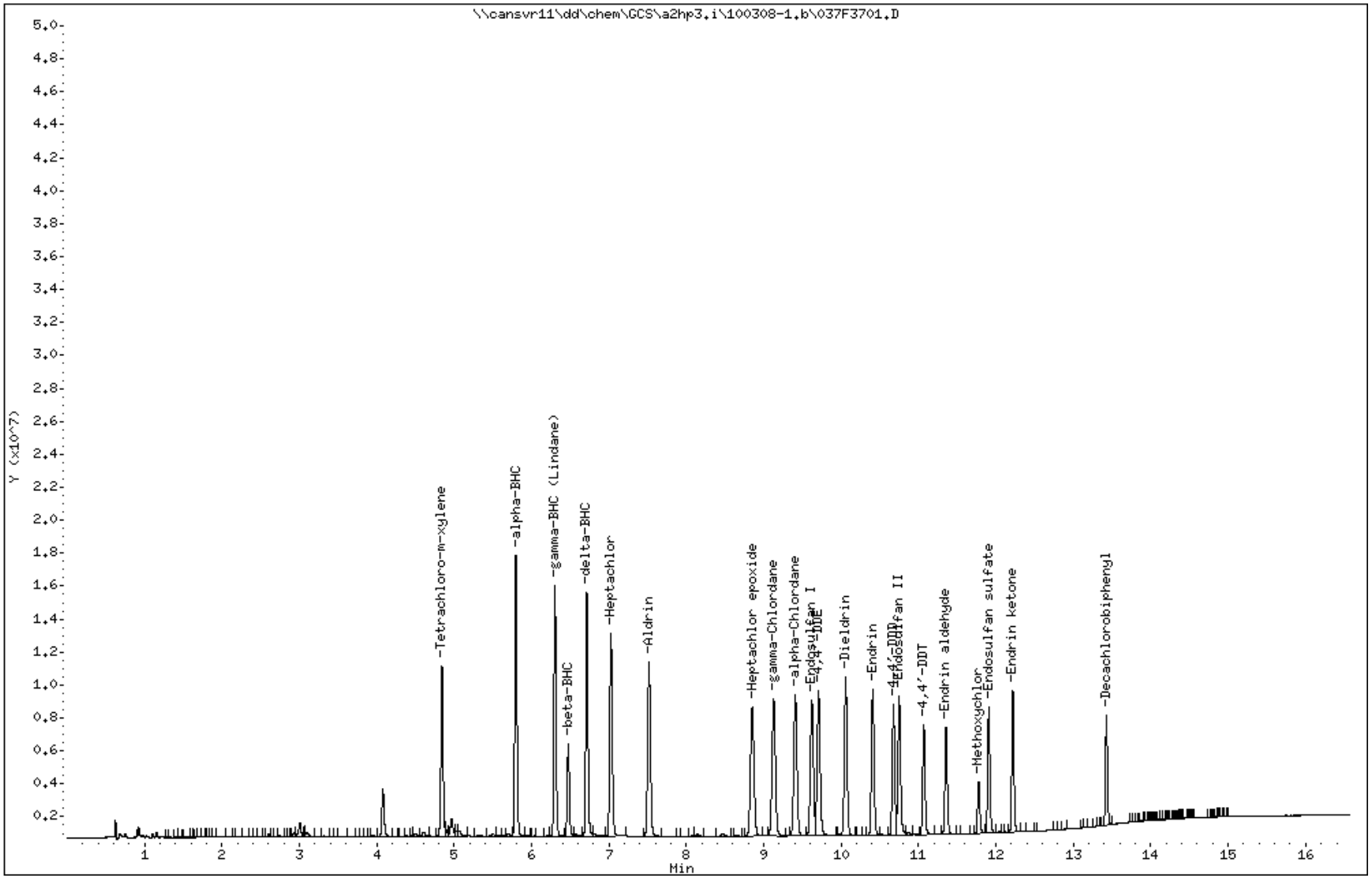
Instrument: a2hp3.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 01:58
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/037F3701.D
Lab Sample ID: AB3 G252
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.842	20190069	0.027	0.027
4)	alpha-BHC	5.797	32247407	0.027	0.027
5)	gamma-BHC (Lindane)	6.302	28718574	0.027	0.027
6)	beta-BHC	6.473	10928341	0.025	0.025
7)	delta-BHC	6.713	28480686	0.027	0.027
9)	Heptachlor	7.025	28077862	0.026	0.026
10)	Aldrin	7.517	27078136	0.027	0.027
12)	Heptachlor epoxide	8.850	24974976	0.027	0.027
13)	gamma-Chlordane	9.128	25331007	0.026	0.026
14)	alpha-Chlordane	9.407	24138941	0.026	0.026
15)	Endosulfan I	9.621	22127426	0.027	0.027
16)	4,4'-DDE	9.708	23811928	0.027	0.027
17)	Dieldrin	10.058	23767505	0.027	0.027
20)	Endrin	10.407	20862981	0.027	0.027
22)	4,4'-DDD	10.675	17596018	0.029	0.029
23)	Endosulfan II	10.749	19667004	0.028	0.028
24)	4,4'-DDT	11.068	14329266	0.023	0.023
26)	Endrin aldehyde	11.353	13801089	0.027	0.027
27)	Methoxychlor	11.776	6413829	0.025	0.025
28)	Endosulfan sulfate	11.906	15328158	0.027	0.027
29)	Endrin ketone	12.218	16566018	0.027	0.027
30)	Decachlorobiphenyl	13.425	12406899	0.028	0.028

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RECOVERY REPORT

Client Name: Client SDG: SDGa00711
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.005607	112.14	70-130
5 gamma-BHC (Lindane	0.005000	0.005544	110.88	70-130
6 beta-BHC	0.005000	0.005738	114.75	70-130
7 delta-BHC	0.005000	0.005500	109.99	70-130
9 Heptachlor	0.005000	0.005368	107.35	70-130
10 Aldrin	0.005000	0.005669	113.39	70-130
12 Heptachlor epoxide	0.005000	0.005997	119.94	70-130
13 gamma-Chlordane	0.005000	0.005632	112.64	70-130
14 alpha-Chlordane	0.005000	0.005720	114.41	70-130
15 Endosulfan I	0.005000	0.006051	121.02	70-130
16 4,4'-DDE	0.005000	0.005726	114.51	70-130
17 Dieldrin	0.005000	0.005838	116.76	70-130
20 Endrin	0.005000	0.005904	118.08	70-130
22 4,4'-DDD	0.005000	0.006056	121.11	70-130
23 Endosulfan II	0.005000	0.005939	118.78	70-130
24 4,4'-DDT	0.005000	0.004637	92.74	70-130
26 Endrin aldehyde	0.005000	0.005960	119.19	70-130
27 Methoxychlor	0.005000	0.005059	101.17	70-130
28 Endosulfan sulfate	0.005000	0.005927	118.54	70-130
29 Endrin ketone	0.005000	0.005736	114.72	70-130

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\038F3801.D
Lab Smp Id: MRL
Inj Date : 09-MAR-2010 02:22
Operator : 093905   Inst ID: a2hp3.i
Smp Info : MRL
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 07:19 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43   Cal File: 015F1501.D
Als bottle: 38   QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: mrl.sub
Target Version: 4.14   Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.796	5.796	0.000	3554944	0.00561	0.005607		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.301	6.301	0.000	3144138	0.00554	0.005544		
6 beta-BHC						CAS #: 319-85-7	
6.472	6.473	-0.001	1271387	0.00574	0.005738		
7 delta-BHC						CAS #: 319-86-8	
6.712	6.713	-0.001	5813444	0.00550	0.005500		
9 Heptachlor						CAS #: 76-44-8	
7.023	7.025	-0.002	5865920	0.00537	0.005368		
10 Aldrin						CAS #: 309-00-2	
7.515	7.516	-0.001	2264345	0.00567	0.005669		

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--------------------------------------------------------------------------------
   12 Heptachlor epoxide                          CAS #: 1024-57-3
8.849    8.850   -0.001         5588292 0.00600  0.005997
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
9.127	9.127	0.000	1782431	0.00563	0.005632		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.406	9.406	0.000	1849135	0.00572	0.005720		
15 Endosulfan I					CAS #: 959-98-8		
9.618	9.620	-0.002	4976933	0.00605	0.006051		
16 4,4'-DDE					CAS #: 72-55-9		
9.706	9.707	-0.001	5142029	0.00573	0.005726		
17 Dieldrin					CAS #: 60-57-1		
10.056	10.057	-0.001	2049041	0.00584	0.005838		
20 Endrin					CAS #: 72-20-8		
10.406	10.406	0.000	4556532	0.00590	0.005904		
22 4,4'-DDD					CAS #: 72-54-8		
10.674	10.675	-0.001	3718971	0.00606	0.006056		
23 Endosulfan II					CAS #: 33213-65-9		
10.748	10.749	-0.001	1802222	0.00594	0.005939		
24 4,4'-DDT					CAS #: 50-29-3		
11.066	11.067	-0.001	2845723	0.00464	0.004637		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.354	11.353	0.001	3053458	0.00596	0.005960		
27 Methoxychlor					CAS #: 72-43-5		
11.776	11.775	0.001	1301661	0.00506	0.005059		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.906	11.905	0.001	1672676	0.00593	0.005927		
29 Endrin ketone					CAS #: 53494-70-5		
12.217	12.217	0.000	3522856	0.00574	0.005736		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\038F3801.D

Date : 09-MAR-2010 02:22

Client ID:

Instrument: a2hp3.i

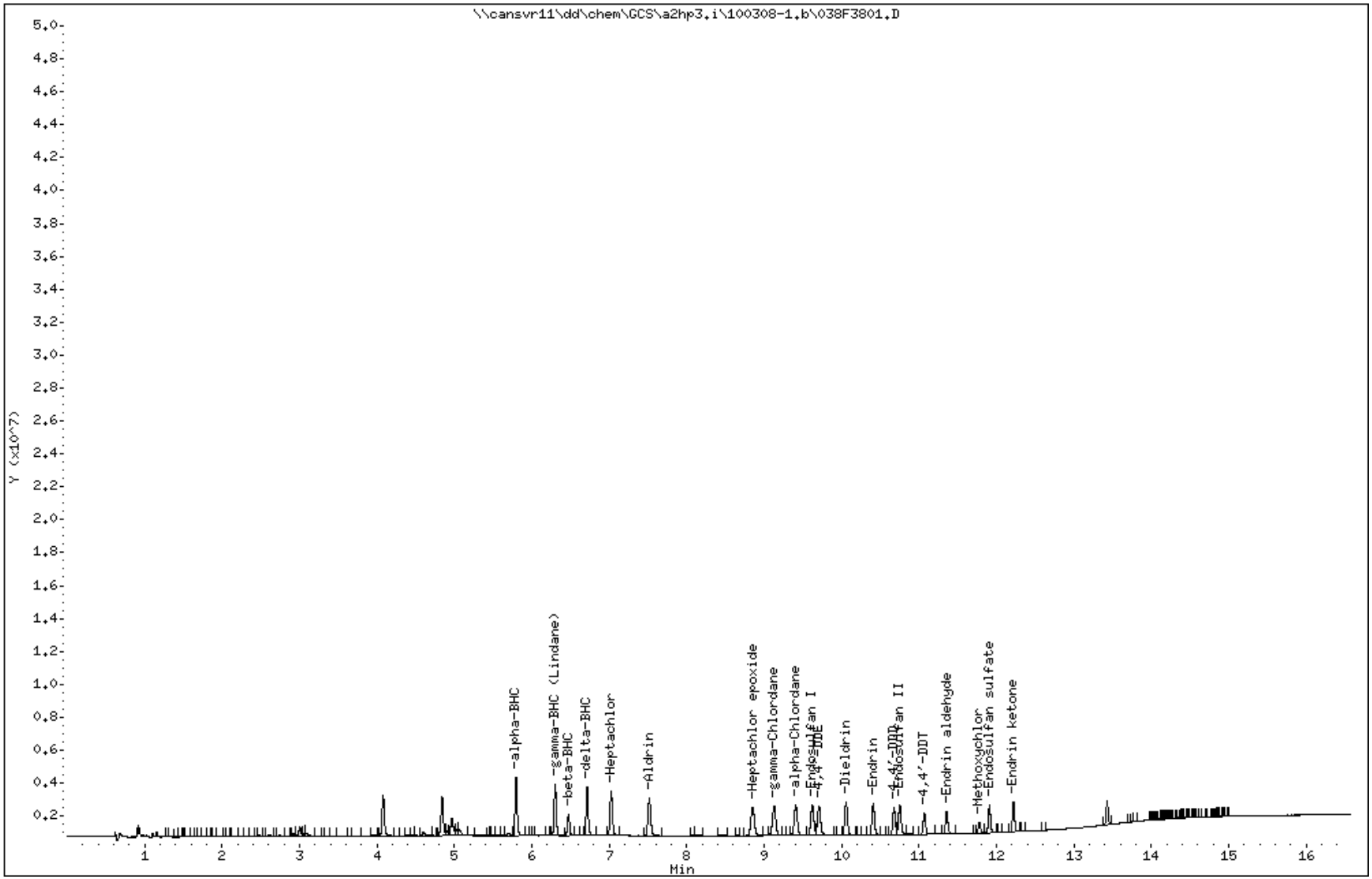
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b/054F5401.D
Report Date: 03/09/2010

EVALB Degradation Report

Instrument ID: a2hp3.i Injection Date: 09-MAR-2010 09:08
Lab File ID: 054F5401.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
11.067	48448708	4,4'-DDT
9.7066	1342116	4,4'-DDE
10.675	5109153	4,4'-DDD

Percent Degradation of 4,4'-DDT: 11.75

Endrin Degradation

RT	Area	Compound
10.406	35516012	Endrin
11.354	1279913	Endrin aldehyde
12.217	2096296	Endrin ketone

Percent Degradation of Endrin: 8.68

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\054F5401.D
Lab Smp Id: PEM E006
Inj Date : 09-MAR-2010 09:08
Operator : 093905   Inst ID: a2hp3.i
Smp Info : PEM E006
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 09:35 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43   Cal File: 015F1501.D
Als bottle: 54   QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 12-pem.sub
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.796	5.788	0.008	6375858	0.01006	0.01006		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.302	6.293	0.009	5738833	0.01012	0.01012		
6 beta-BHC						CAS #: 319-85-7	
6.472	6.465	0.007	2256874	0.01019	0.01018		
16 4,4'-DDE						CAS #: 72-55-9	
9.706	9.697	0.009	1342116	0.00149	0.001494		
20 Endrin						CAS #: 72-20-8	
10.405	10.398	0.007	35516012	0.04602	0.04602		
22 4,4'-DDD						CAS #: 72-54-8	
10.674	10.664	0.010	5109153	0.00832	0.008319		
23 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT						CAS #: 50-29-3	
11.066	11.058	0.008	48448708	0.07894	0.07894		
26 Endrin aldehyde						CAS #: 7421-93-4	
11.354	11.345	0.009	1279913	0.00250	0.002498		

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   27 Methoxychlor                                CAS #: 72-43-5
11.773  11.767    0.006        49104411 0.19084   0.1908
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.905  11.898    0.007          108810  4e-004  0.0003856
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
12.216	12.210	0.006	2096296	0.00341	0.003413		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\054F5401.D

Date : 09-MAR-2010 09:08

Client ID:

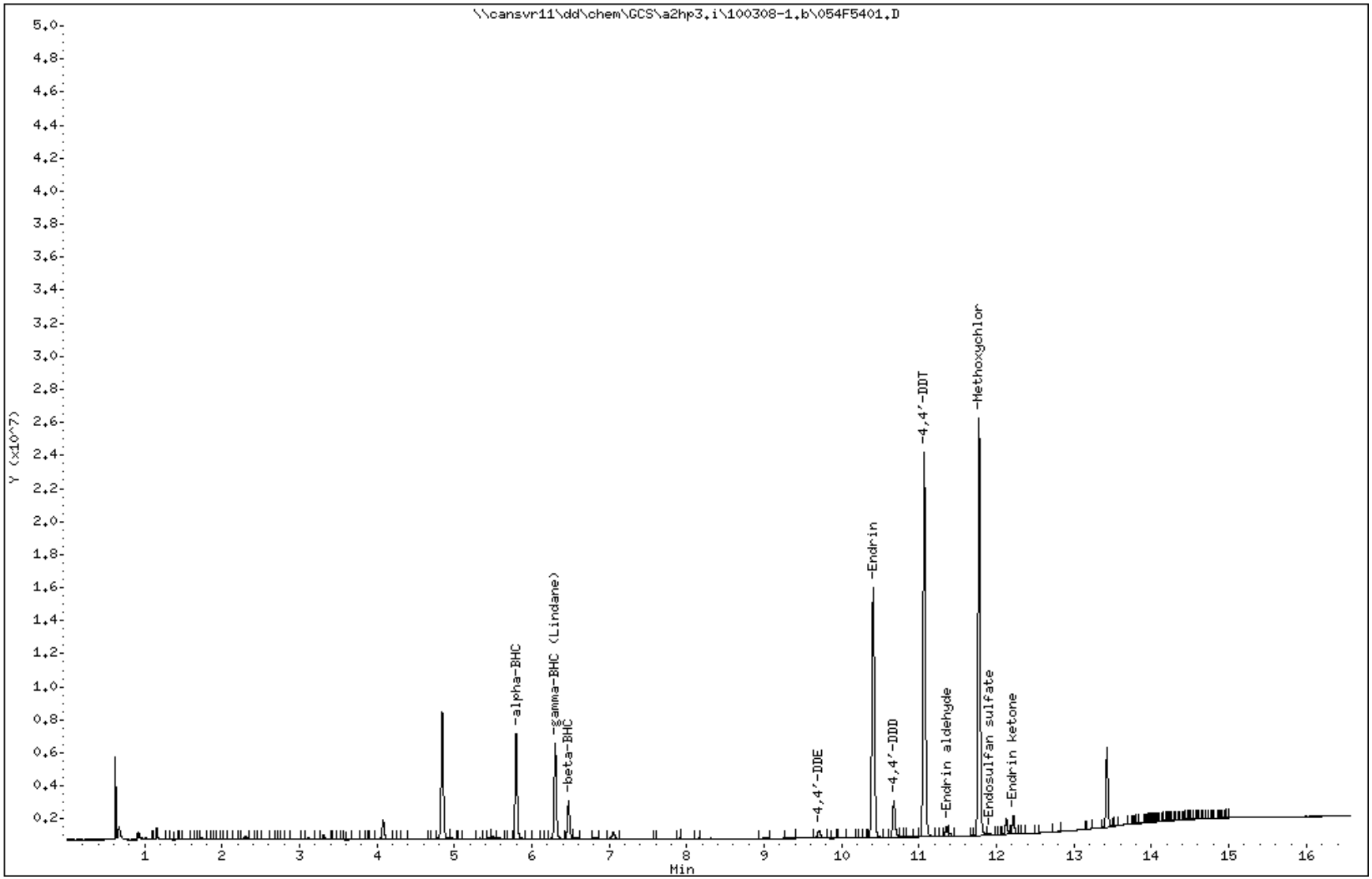
Instrument: a2hp3.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 09:08
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/054F5401.D
Lab Sample ID: PEM E006
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.842	14825048	0.020	0.020
3)	Hexachlorobenzene	5.576	91832	0.000	0.000
2)	Diallate	NOT DETECTED	Expected RT = 5.698		
4)	alpha-BHC	5.797	12177042	0.010	0.010
5)	gamma-BHC (Lindane)	6.302	10908437	0.010	0.010
6)	beta-BHC	6.472	4404561	0.010	0.010
7)	delta-BHC	NOT DETECTED	Expected RT = 6.705		
8)	Tech Chlordane	NOT DETECTED	Expected RT = 6.899		
9)	Heptachlor	NOT DETECTED	Expected RT = 7.016		
10)	Aldrin	NOT DETECTED	Expected RT = 7.506		
11)	Isodrin	8.138	18848	0.000	0.000
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 8.837		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 9.115		
14)	alpha-Chlordane	NOT DETECTED	Expected RT = 9.397		
15)	Endosulfan I	NOT DETECTED	Expected RT = 9.610		
16)	4,4'-DDE	9.707	1342116	0.001	0.001
17)	Dieldrin	NOT DETECTED	Expected RT = 10.047		
20)	Endrin	10.406	35516012	0.046	0.046
21)	Kepone	NOT DETECTED	Expected RT = 10.467		
22)	4,4'-DDD	10.675	5109153	0.008	0.008
23)	Endosulfan II	NOT DETECTED	Expected RT = 10.740		
18)	Chlorobenzilate	10.813	137369	0.000	0.000
19)	Toxaphene	NOT DETECTED	Expected RT = 10.850		
24)	4,4'-DDT	11.067	48448708	0.079	0.079
26)	Endrin aldehyde	11.354	1279913	0.002	0.002
25)	Mirex	NOT DETECTED	Expected RT = 11.684		
27)	Methoxychlor	11.773	49104411	0.191	0.191
28)	Endosulfan sulfate	11.906	268358	0.000	0.000
29)	Endrin ketone	12.217	2096296	0.003	0.003
30)	Decachlorobiphenyl	13.425	8804908	0.020	0.020

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp3.i Injection Date: 08-MAR-2010 12:20
Lab File ID: 005F0501.D Init. Cal. Date(s): 11-FEB-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 09:19 15:39
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
19 Toxaphene(1)	1831719	2006581	2006581	0.010	-9.54634	15.00000	Averaged
(2)	836594	937742	937742	0.010	-12.09051	15.00000	Averaged
(3)	1882988	2041208	2041208	0.010	-8.40261	15.00000	Averaged
(4)	1612703	1703789	1703789	0.010	-5.64806	15.00000	Averaged
(5)	779622	800077	800077	0.010	-2.62367	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 7.66224
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\005F0501.D
Lab Smp Id: TOX3 G268
Inj Date : 08-MAR-2010 12:20
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:34 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
12.013	12.013	0.000	2006581	1.00000	1.095	80.00- 120.00	100.00
12.102	12.102	0.000	937742	1.00000	1.121	114.04- 154.04	46.73
12.336	12.336	0.000	2041208	1.00000	1.084	115.64- 155.64	101.73
12.913	12.913	0.000	1703789	1.00000	1.056	52.78- 92.78	84.91
13.201	13.201	0.000	800077	1.00000	1.026	69.36- 109.36	39.87
		Average of Peak Amounts =			1.07640		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\005F0501.D

Date : 08-MAR-2010 12:20

Client ID:

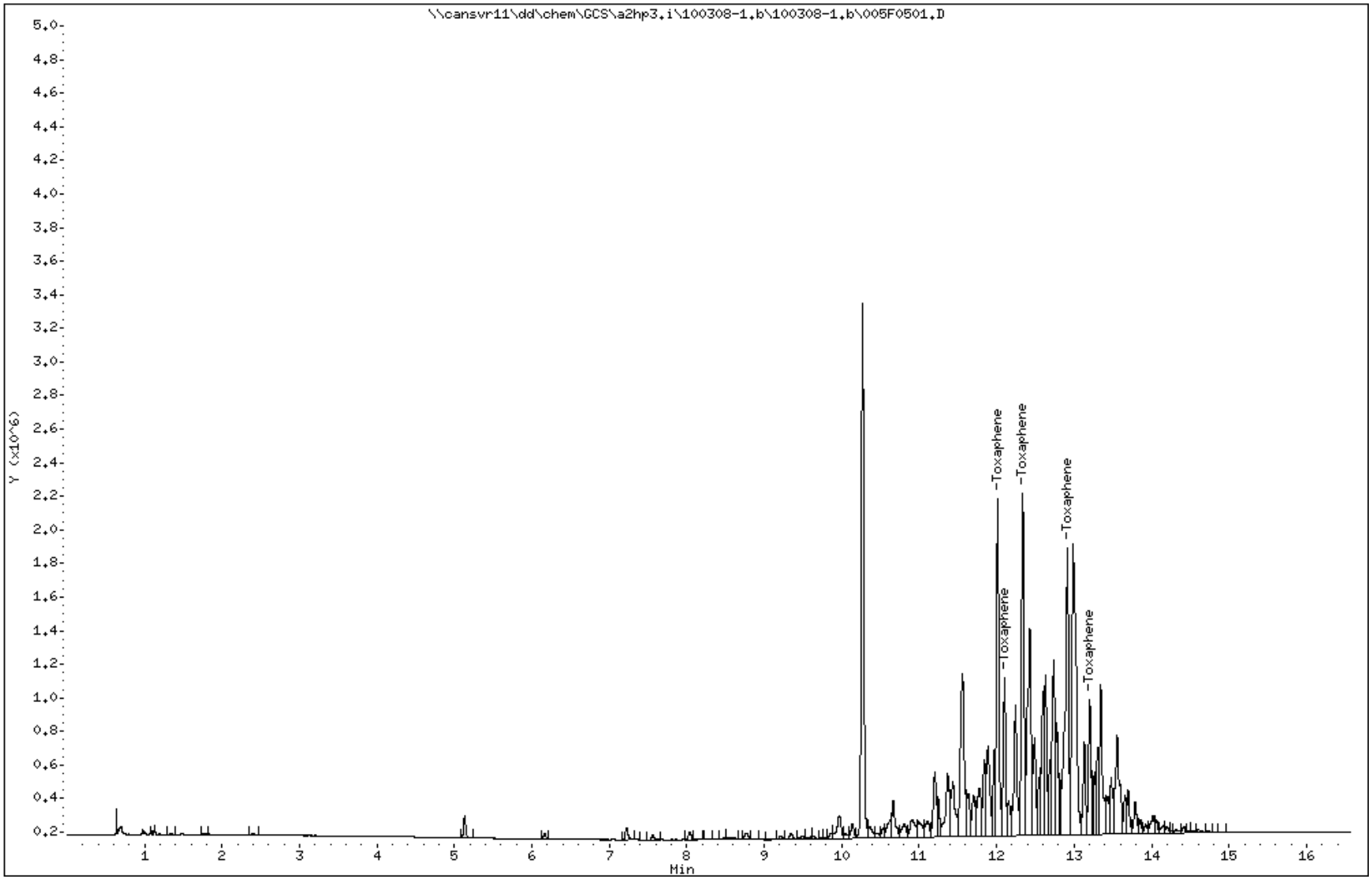
Instrument: a2hp3.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 12:20
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/005F0501.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	12.014	4301749	1.095	1.095

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RECOVERY REPORT

Client Name: Client SDG: SDGa00711
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004173	83.46	70-130
5 gamma-BHC (Lindane	0.005000	0.004267	85.34	70-130
6 beta-BHC	0.005000	0.004978	99.56	70-130
7 delta-BHC	0.005000	0.004218	84.36	70-130
8 Heptachlor	0.005000	0.004726	94.53	70-130
10 Aldrin	0.005000	0.004577	91.54	70-130
12 Heptachlor epoxide	0.005000	0.004674	93.49	70-130
13 gamma-Chlordane	0.005000	0.004516	90.33	70-130
14 alpha-Chlordane	0.005000	0.004739	94.79	70-130
15 Endosulfan I	0.005000	0.004851	97.02	70-130
16 4,4'-DDE	0.005000	0.004648	92.97	70-130
17 Dieldrin	0.005000	0.004792	95.85	70-130
20 Endrin	0.005000	0.004616	92.32	70-130
22 4,4'-DDD	0.005000	0.004325	86.51	70-130
23 Endosulfan II	0.005000	0.004816	96.33	70-130
24 4,4'-DDT	0.005000	0.004584	91.69	70-130
25 Endrin aldehyde	0.005000	0.004982	99.65	70-130
26 Endosulfan sulfate	0.005000	0.004864	97.27	70-130
28 Methoxychlor	0.005000	0.005113	102.27	70-130
29 Endrin ketone	0.005000	0.004863	97.26	70-130

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\015F1501.D
Lab Smp Id: MRL
Inj Date : 08-MAR-2010 16:29
Operator : 093905 Inst ID: a2hp3.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:52 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 15 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
6.772	6.772	0.000	374881	0.00417	0.004173		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
7.408	7.408	0.000	288319	0.00427	0.004267		
6 beta-BHC					CAS #: 319-85-7		
7.621	7.620	0.001	124394	0.00498	0.004978		
7 delta-BHC					CAS #: 319-86-8		
8.237	8.236	0.001	563459	0.00422	0.004218		
8 Heptachlor					CAS #: 76-44-8		
8.313	8.313	0.000	664125	0.00473	0.004726		
10 Aldrin					CAS #: 309-00-2		
9.063	9.060	0.003	596459	0.00458	0.004577		

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   12 Heptachlor epoxide                          CAS #: 1024-57-3
10.221  10.221    0.000          240082 0.00467  0.004674
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
10.535	10.535	0.000	241311	0.00452	0.004516		
14 alpha-Chlordane					CAS #: 5103-71-9		
10.768	10.767	0.001	254155	0.00474	0.004739		
15 Endosulfan I					CAS #: 959-98-8		
10.818	10.819	-0.001	511411	0.00485	0.004851		
16 4,4'-DDE					CAS #: 72-55-9		
11.096	11.096	0.000	453695	0.00465	0.004648		
17 Dieldrin					CAS #: 60-57-1		
11.218	11.219	-0.001	518871	0.00479	0.004792		
20 Endrin					CAS #: 72-20-8		
11.615	11.615	0.000	239729	0.00462	0.004616		
22 4,4'-DDD					CAS #: 72-54-8		
11.861	11.859	0.002	300085	0.00433	0.004325		
23 Endosulfan II					CAS #: 33213-65-9		
11.900	11.900	0.000	236055	0.00482	0.004816		
24 4,4'-DDT					CAS #: 50-29-3		
12.235	12.234	0.001	328284	0.00458	0.004584		
25 Endrin aldehyde					CAS #: 7421-93-4		
12.328	12.327	0.001	183718	0.00498	0.004982		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.655	12.654	0.001	209207	0.00486	0.004864		
28 Methoxychlor					CAS #: 72-43-5		
13.043	13.042	0.001	95934	0.00511	0.005113		
29 Endrin ketone					CAS #: 53494-70-5		
13.231	13.230	0.001	246846	0.00486	0.004863		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\015F1501.D

Date : 08-MAR-2010 16:29

Client ID:

Instrument: a2hp3.i

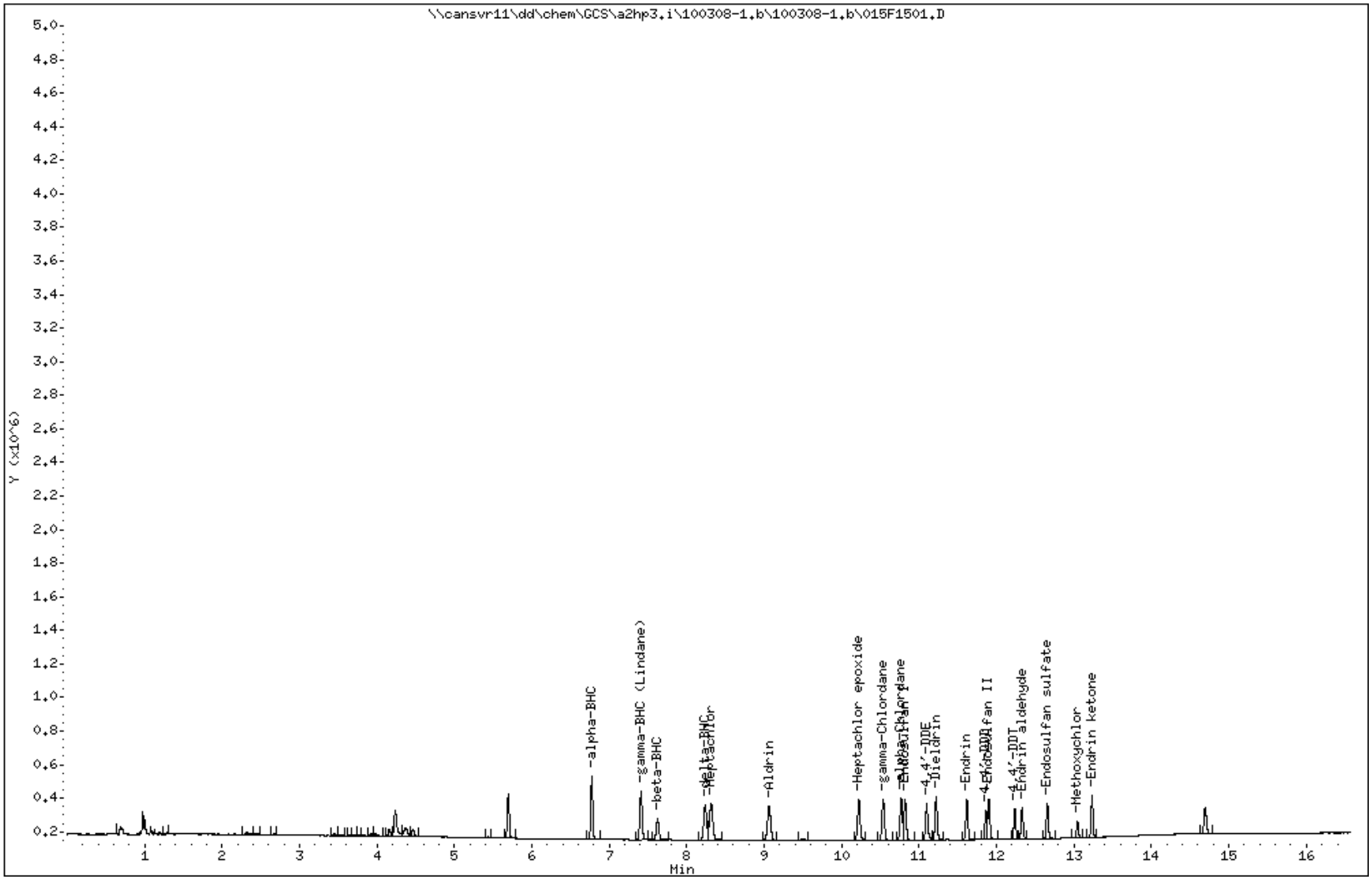
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b/023F2301.D
Report Date: 03/09/2010

EVALB Degradation Report

Instrument ID: a2hp3.i Injection Date: 08-MAR-2010 20:00
Lab File ID: 023F2301.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
12.234	7236899	4,4'-DDT
11.098	45169	4,4'-DDE
11.860	345235	4,4'-DDD

Percent Degradation of 4,4'-DDT: 5.12

Endrin Degradation

RT	Area	Compound
11.616	4317387	Endrin
12.329	180117	Endrin aldehyde
13.230	387366	Endrin ketone

Percent Degradation of Endrin: 11.62

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\023F2301.D
Lab Smp Id: PEM E006
Inj Date : 08-MAR-2010 20:00
Operator : 093905 Inst ID: a2hp3.i
Smp Info : PEM E006
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:52 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 23 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-pem.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
6.773	6.772	0.001	807680	0.00899	0.008990		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
7.408	7.408	0.000	607283	0.00899	0.008987		
6 beta-BHC					CAS #: 319-85-7		
7.622	7.620	0.002	231547	0.00927	0.009266		
16 4,4'-DDE					CAS #: 72-55-9		
11.097	11.096	0.001	45169	5e-004	0.0004628		
20 Endrin					CAS #: 72-20-8		
11.616	11.615	0.001	2345184	0.04516	0.04516		
22 4,4'-DDD					CAS #: 72-54-8		
11.860	11.859	0.001	345235	0.00498	0.004976		
23 Endosulfan II					CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		
12.234	12.234	0.000	7236899	0.10106	0.1010		
25 Endrin aldehyde					CAS #: 7421-93-4		
12.328	12.327	0.001	81987	0.00222	0.002223		

```
   28 Methoxychlor                                CAS #: 72-43-5
13.041  13.042   -0.001         5032204 0.26822   0.2682
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

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29 Endrin ketone CAS #: 53494-70-5

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
13.230	13.230	0.000	194010	0.00382	0.003822		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\023F2301.D

Date : 08-MAR-2010 20:00

Client ID:

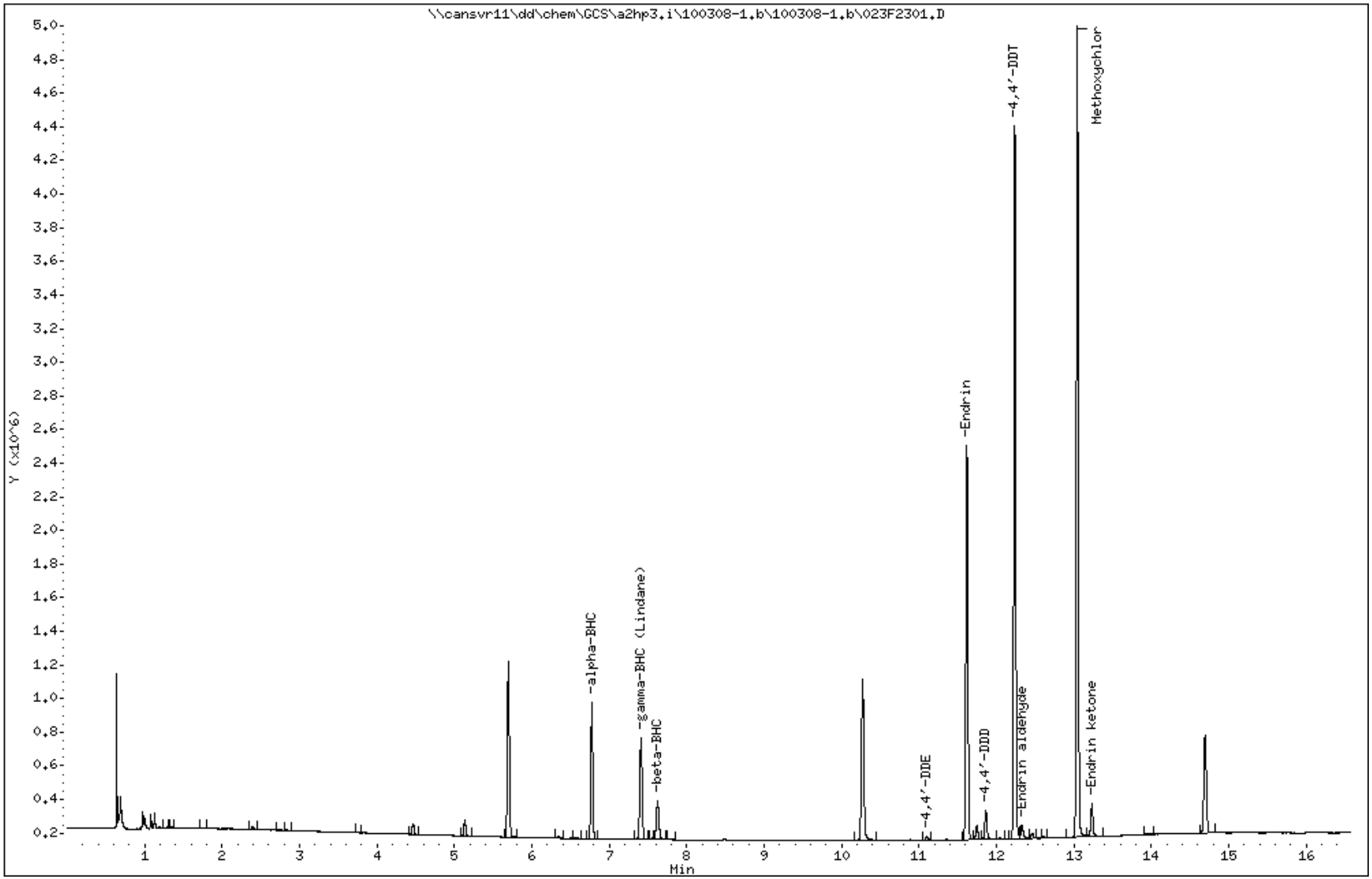
Instrument: a2hp3.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 20:00
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/023F2301.D
Lab Sample ID: PEM E006
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.696	1837631	0.019	0.019
2) Diallate	NOT DETECTED	Expected RT = 6.532		
3) Hexachlorobenzene	6.566	11561	0.000	0.000
4) alpha-BHC	6.774	1386081	0.009	0.009
5) gamma-BHC (Lindane)	7.409	1270291	0.009	0.009
6) beta-BHC	7.623	552196	0.009	0.009
9) Tech Chlordane	NOT DETECTED	Expected RT = 7.996		
7) delta-BHC	NOT DETECTED	Expected RT = 8.237		
8) Heptachlor	NOT DETECTED	Expected RT = 8.313		
10) Aldrin	NOT DETECTED	Expected RT = 9.061		
11) Isodrin	NOT DETECTED	Expected RT = 9.872		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 10.222		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 10.536		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 10.767		
15) Endosulfan I	NOT DETECTED	Expected RT = 10.819		
16) 4,4'-DDE	11.098	45169	0.000	0.000
17) Dieldrin	NOT DETECTED	Expected RT = 11.219		
20) Endrin	11.616	4317387	0.045	0.045
18) Chlorobenzilate	NOT DETECTED	Expected RT = 11.713		
21) Kepone	11.746	156445	0.000	0.000
22) 4,4'-DDD	11.860	345235	0.005	0.005
23) Endosulfan II	NOT DETECTED	Expected RT = 11.901		
19) Toxaphene	NOT DETECTED	Expected RT = 12.014		
24) 4,4'-DDT	12.234	7236899	0.101	0.101
25) Endrin aldehyde	12.329	180117	0.002	0.002
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.654		
28) Methoxychlor	13.042	8306080	0.268	0.268
27) Mirex	NOT DETECTED	Expected RT = 13.211		
29) Endrin ketone	13.230	387366	0.004	0.004
30) Decachlorobiphenyl	14.693	1311567	0.022	0.022

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp3.i Injection Date: 08-MAR-2010 20:25
Lab File ID: 024F2401.D Init. Cal. Date(s): 11-FEB-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 09:19 15:39
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	98957455	94722080	94722080	0.000	4.28000	15.00000	Averaged
4 alpha-BHC	89840067	88649240	88649240	0.010	1.32550	15.00000	Averaged
5 gamma-BHC (Lindane)	67570028	66139800	66139800	0.010	2.11666	15.00000	Averaged
6 beta-BHC	24988148	23964120	23964120	0.010	4.09806	15.00000	Averaged
7 delta-BHC	133587576	129681440	129681440	0.010	2.92403	15.00000	Averaged
8 Heptachlor	140513277	137515320	137515320	0.010	2.13358	15.00000	Averaged
10 Aldrin	130316193	122208360	122208360	0.010	6.22166	15.00000	Averaged
12 Heptachlor epoxide	51362535	50041640	50041640	0.010	2.57171	15.00000	Averaged
13 gamma-Chlordane	53430002	51963760	51963760	0.010	2.74423	15.00000	Averaged
14 alpha-Chlordane	53627391	51612200	51612200	0.010	3.75776	15.00000	Averaged
16 4,4'-DDE	97604338	95888000	95888000	0.010	1.75847	15.00000	Averaged
15 Endosulfan I	105425418	101543680	101543680	0.010	3.68198	15.00000	Averaged
17 Dieldrin	108270050	105522000	105522000	0.010	2.53814	15.00000	Averaged
20 Endrin	51933577	50801640	50801640	0.010	2.17959	15.00000	Averaged
22 4,4'-DDD	69376715	71124880	71124880	0.010	-2.51982	15.00000	Averaged
23 Endosulfan II	49009195	48678200	48678200	0.010	0.67537	15.00000	Averaged
24 4,4'-DDT	71610454	66064960	66064960	0.010	7.74397	15.00000	Averaged
25 Endrin aldehyde	36873332	37540200	37540200	0.010	-1.80854	15.00000	Averaged
26 Endosulfan sulfate	43014138	42639640	42639640	0.010	0.87064	15.00000	Averaged
28 Methoxychlor	18761141	19035760	19035760	0.010	-1.46377	15.00000	Averaged
29 Endrin ketone	50757420	51424800	51424800	0.010	-1.31484	15.00000	Averaged
$ 30 Decachlorobiphenyl	26949255	28867400	28867400	0.010	-7.11762	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.99300
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\024F2401.D
Lab Smp Id: AB3 G252
Inj Date : 08-MAR-2010 20:25
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB3 G252,,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:53 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-ab.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
5.695	5.695	0.000	2368052	0.02500	0.02393		
4 alpha-BHC					CAS #: 319-84-6		
6.772	6.772	0.000	2216231	0.02500	0.02467		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
7.407	7.407	0.000	1653495	0.02500	0.02447		
6 beta-BHC					CAS #: 319-85-7		
7.621	7.621	0.000	599103	0.02500	0.02398		
7 delta-BHC					CAS #: 319-86-8		
8.235	8.235	0.000	3242036	0.02500	0.02427		
8 Heptachlor					CAS #: 76-44-8		
8.313	8.313	0.000	3437883	0.02500	0.02447		
10 Aldrin					CAS #: 309-00-2		
9.062	9.062	0.000	3055209	0.02500	0.02344		
12 Heptachlor epoxide					CAS #: 1024-57-3		
10.221	10.221	0.000	1251041	0.02500	0.02436		
13 gamma-Chlordane					CAS #: 5103-74-2		
10.535	10.535	0.000	1299094	0.02500	0.02431		
14 alpha-Chlordane					CAS #: 5103-71-9		
10.768	10.768	0.000	1290305	0.02500	0.02406		

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   16 4,4'-DDE                                    CAS #: 72-55-9
11.095  11.095    0.000         2397200 0.02500  0.02456
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
10.819	10.819	0.000	2538592	0.02500	0.02408		
17 Dieldrin					CAS #: 60-57-1		
11.218	11.218	0.000	2638050	0.02500	0.02436		
20 Endrin					CAS #: 72-20-8		
11.615	11.615	0.000	1270041	0.02500	0.02446		
22 4,4'-DDD					CAS #: 72-54-8		
11.860	11.860	0.000	1778122	0.02500	0.02563		
23 Endosulfan II					CAS #: 33213-65-9		
11.900	11.900	0.000	1216955	0.02500	0.02483		
24 4,4'-DDT					CAS #: 50-29-3		
12.234	12.234	0.000	1651624	0.02500	0.02306		
25 Endrin aldehyde					CAS #: 7421-93-4		
12.327	12.327	0.000	938505	0.02500	0.02545		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.654	12.654	0.000	1065991	0.02500	0.02478		
28 Methoxychlor					CAS #: 72-43-5		
13.042	13.042	0.000	475894	0.02500	0.02536		
29 Endrin ketone					CAS #: 53494-70-5		
13.230	13.230	0.000	1285620	0.02500	0.02533		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.693	14.693	0.000	721685	0.02500	0.02678		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\024F2401.D

Date : 08-MAR-2010 20:25

Client ID:

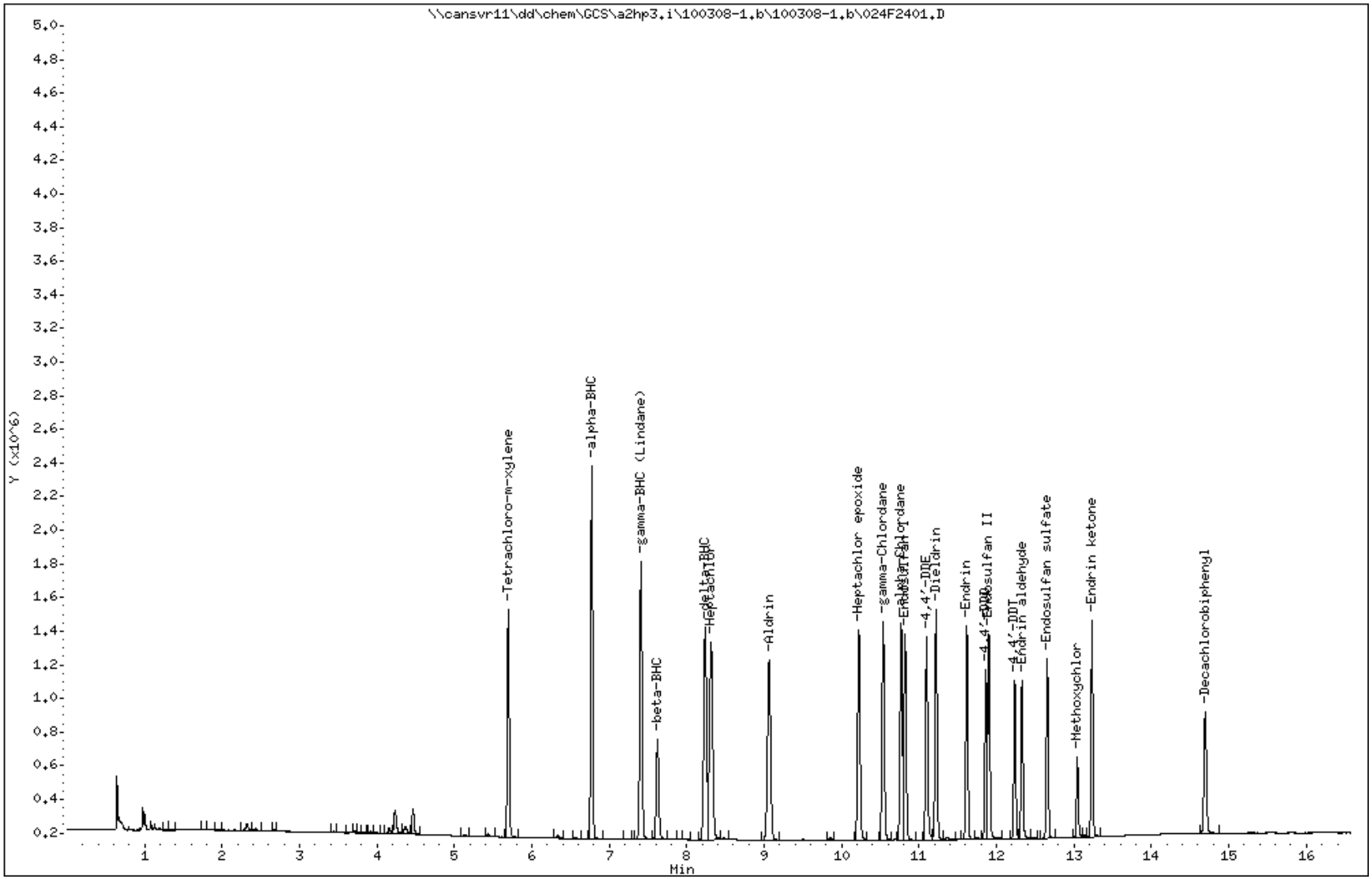
Instrument: a2hp3.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 20:25
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/024F2401.D
Lab Sample ID: AB3 G252
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.695	2368052	0.024	0.024
4) alpha-BHC	6.773	3799077	0.025	0.025
5) gamma-BHC (Lindane)	7.408	3433771	0.024	0.024
6) beta-BHC	7.622	1424275	0.024	0.024
7) delta-BHC	8.236	3242036	0.024	0.024
8) Heptachlor	8.313	3437883	0.024	0.024
10) Aldrin	9.063	3055209	0.023	0.023
12) Heptachlor epoxide	10.222	2769790	0.024	0.024
13) gamma-Chlordane	10.536	2733420	0.024	0.024
14) alpha-Chlordane	10.768	2624273	0.024	0.024
15) Endosulfan I	10.819	2538592	0.024	0.024
16) 4,4'-DDE	11.096	2397200	0.025	0.025
17) Dieldrin	11.218	2638050	0.024	0.024
20) Endrin	11.615	2330074	0.024	0.024
22) 4,4'-DDD	11.860	1778122	0.026	0.026
23) Endosulfan II	11.900	2321203	0.025	0.025
24) 4,4'-DDT	12.234	1651624	0.023	0.023
25) Endrin aldehyde	12.328	1696310	0.025	0.025
26) Endosulfan sulfate	12.654	1881055	0.025	0.025
28) Methoxychlor	13.043	822770	0.025	0.025
29) Endrin ketone	13.231	2140857	0.025	0.025
30) Decachlorobiphenyl	14.693	1642356	0.027	0.027

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RECOVERY REPORT

Client Name: Client SDG: SDGa00711
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004331	86.63	70-130
5 gamma-BHC (Lindane	0.005000	0.004446	88.91	70-130
6 beta-BHC	0.005000	0.005191	103.81	70-130
7 delta-BHC	0.005000	0.004440	88.81	70-130
8 Heptachlor	0.005000	0.004794	95.88	70-130
10 Aldrin	0.005000	0.004700	94.00	70-130
12 Heptachlor epoxide	0.005000	0.004871	97.42	70-130
13 gamma-Chlordane	0.005000	0.004755	95.09	70-130
14 alpha-Chlordane	0.005000	0.004858	97.17	70-130
15 Endosulfan I	0.005000	0.004993	99.86	70-130
16 4,4'-DDE	0.005000	0.004724	94.48	70-130
17 Dieldrin	0.005000	0.004774	95.48	70-130
20 Endrin	0.005000	0.004766	95.33	70-130
22 4,4'-DDD	0.005000	0.004939	98.77	70-130
23 Endosulfan II	0.005000	0.005130	102.61	70-130
24 4,4'-DDT	0.005000	0.004625	92.51	70-130
25 Endrin aldehyde	0.005000	0.005305	106.10	70-130
26 Endosulfan sulfate	0.005000	0.005268	105.36	70-130
28 Methoxychlor	0.005000	0.005241	104.83	70-130
29 Endrin ketone	0.005000	0.005096	101.92	70-130

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\025F2501.D
Lab Smp Id: MRL
Inj Date : 08-MAR-2010 20:50
Operator : 093905 Inst ID: a2hp3.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:53 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 25 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
6.772	6.772	0.000	389140	0.00433	0.004331		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.406	7.407	-0.001	300385	0.00445	0.004446		
6 beta-BHC						CAS #: 319-85-7	
7.621	7.621	0.000	129705	0.00519	0.005191		
7 delta-BHC						CAS #: 319-86-8	
8.236	8.235	0.001	593186	0.00444	0.004440		
8 Heptachlor						CAS #: 76-44-8	
8.313	8.313	0.000	673609	0.00479	0.004794		
10 Aldrin						CAS #: 309-00-2	
9.062	9.062	0.000	612482	0.00470	0.004700		

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   12 Heptachlor epoxide                          CAS #: 1024-57-3
10.221  10.221    0.000          250191 0.00487  0.004871
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
10.535	10.535	0.000	254040	0.00475	0.004755		
14 alpha-Chlordane					CAS #: 5103-71-9		
10.768	10.768	0.000	260548	0.00486	0.004858		
15 Endosulfan I					CAS #: 959-98-8		
10.818	10.819	-0.001	526397	0.00499	0.004993		
16 4,4'-DDE					CAS #: 72-55-9		
11.096	11.095	0.001	461094	0.00472	0.004724		
17 Dieldrin					CAS #: 60-57-1		
11.218	11.218	0.000	516907	0.00477	0.004774		
20 Endrin					CAS #: 72-20-8		
11.615	11.615	0.000	247545	0.00477	0.004766		
22 4,4'-DDD					CAS #: 72-54-8		
11.861	11.860	0.001	342627	0.00494	0.004939		
23 Endosulfan II					CAS #: 33213-65-9		
11.900	11.900	0.000	251430	0.00513	0.005130		
24 4,4'-DDT					CAS #: 50-29-3		
12.234	12.234	0.000	331220	0.00463	0.004625		
25 Endrin aldehyde					CAS #: 7421-93-4		
12.327	12.327	0.000	195610	0.00530	0.005305		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.654	12.654	0.000	226589	0.00527	0.005268		
28 Methoxychlor					CAS #: 72-43-5		
13.043	13.042	0.001	98334	0.00524	0.005241		
29 Endrin ketone					CAS #: 53494-70-5		
13.231	13.230	0.001	258657	0.00510	0.005096		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\025F2501.D

Date : 08-MAR-2010 20:50

Client ID:

Instrument: a2hp3.i

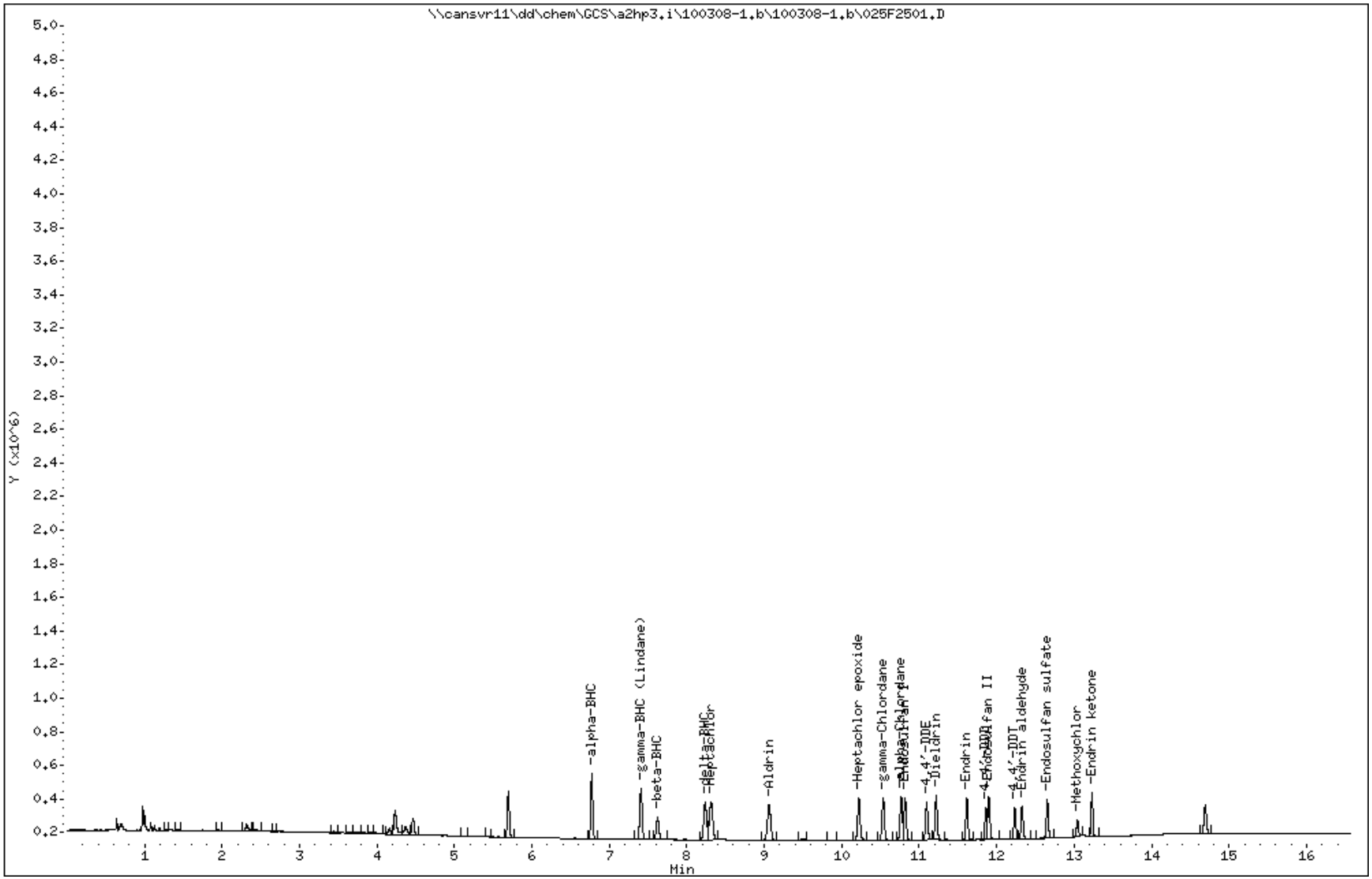
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp3.i Injection Date: 09-MAR-2010 01:09
Lab File ID: 035F3501.D Init. Cal. Date(s): 11-FEB-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 09:19 15:39
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
19 Toxaphene(1)	1831719	1990677	1990677	0.010	-8.67808	15.00000	Averaged
(2)	836594	905334	905334	0.010	-8.21671	15.00000	Averaged
(3)	1882988	2021058	2021058	0.010	-7.33251	15.00000	Averaged
(4)	1612703	1639610	1639610	0.010	-1.66847	15.00000	Averaged
(5)	779622	770718	770718	0.010	1.14212	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.40758
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\035F3501.D
Lab Smp Id: TOX3 G268
Inj Date : 09-MAR-2010 01:09
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX3 G268,,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:54 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 35 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-toxaph.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
12.014	12.014	0.000	1990677	1.00000	1.087	80.00- 120.00	100.00
12.104	12.104	0.000	905334	1.00000	1.082	114.04- 154.04	45.48
12.337	12.337	0.000	2021058	1.00000	1.073	115.64- 155.64	101.53
12.914	12.914	0.000	1639610	1.00000	1.017	52.78- 92.78	82.36
13.202	13.202	0.000	770718	1.00000	0.9886	69.36- 109.36	38.72
		Average of Peak Amounts =			1.04952		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\035F3501.D

Page 1

Date : 09-MAR-2010 01:09

Client ID:

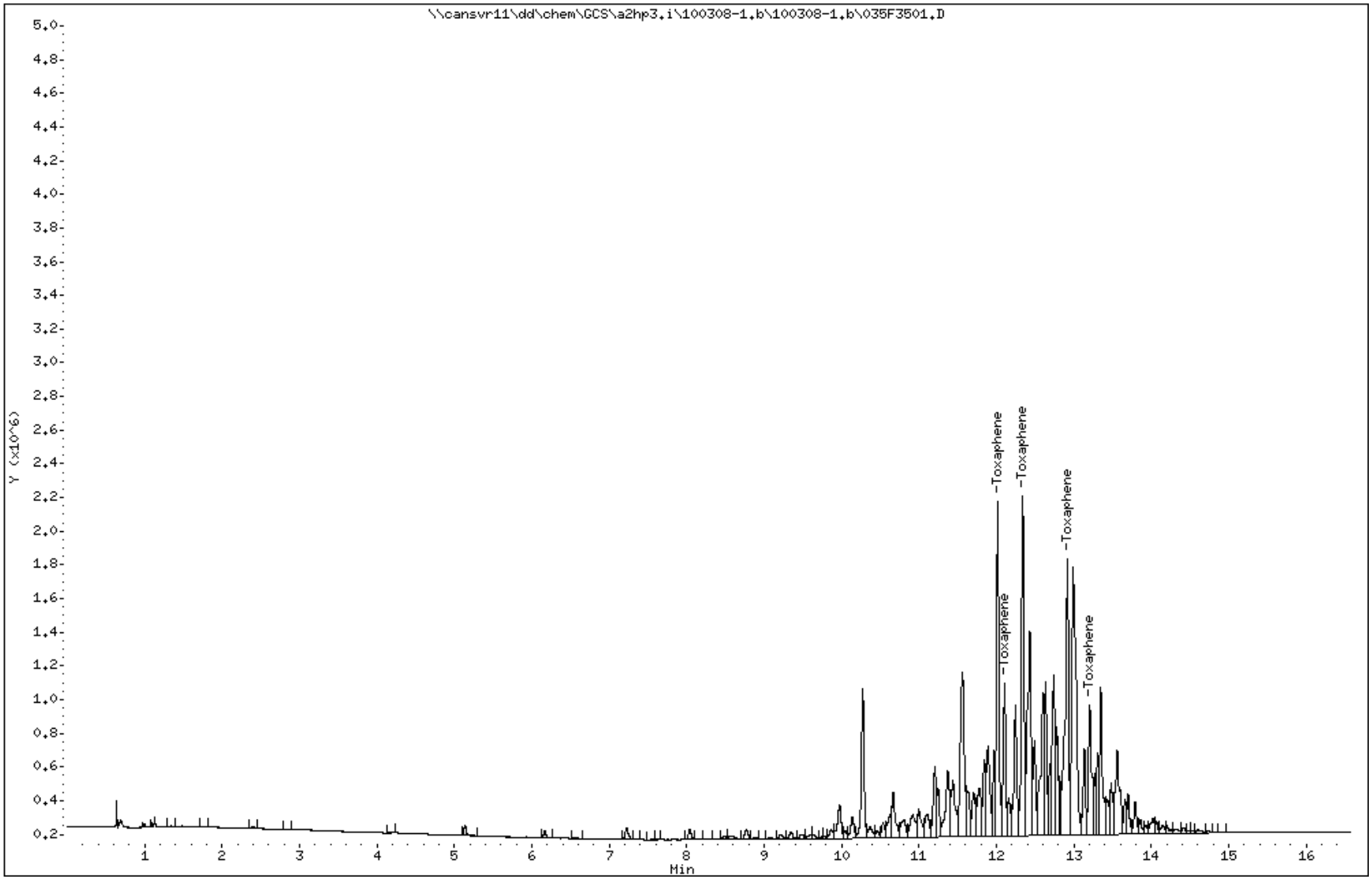
Instrument: a2hp3.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 01:09
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/035F3501.D
Lab Sample ID: TOX3 G268
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	12.014	4280184	1.087	1.087

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp3.i Injection Date: 09-MAR-2010 01:58
Lab File ID: 037F3701.D Init. Cal. Date(s): 11-FEB-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 09:19 15:39
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	98957455	99265600	99265600	0.000	-0.31139	15.00000	Averaged
4 alpha-BHC	89840067	93637960	93637960	0.010	-4.22739	15.00000	Averaged
5 gamma-BHC (Lindane)	67570028	69386520	69386520	0.010	-2.68831	15.00000	Averaged
6 beta-BHC	24988148	25713200	25713200	0.010	-2.90158	15.00000	Averaged
7 delta-BHC	133587576	136765920	136765920	0.010	-2.37922	15.00000	Averaged
8 Heptachlor	140513277	143180600	143180600	0.010	-1.89827	15.00000	Averaged
10 Aldrin	130316193	129299920	129299920	0.010	0.77985	15.00000	Averaged
12 Heptachlor epoxide	51362535	52804120	52804120	0.010	-2.80669	15.00000	Averaged
13 gamma-Chlordane	53430002	54534480	54534480	0.010	-2.06715	15.00000	Averaged
14 alpha-Chlordane	53627391	54039520	54039520	0.010	-0.76851	15.00000	Averaged
16 4,4'-DDE	97604338	100908840	100908840	0.010	-3.38561	15.00000	Averaged
15 Endosulfan I	105425418	106949360	106949360	0.010	-1.44552	15.00000	Averaged
17 Dieldrin	108270050	108406040	108406040	0.010	-0.12560	15.00000	Averaged
20 Endrin	51933577	53825480	53825480	0.010	-3.64293	15.00000	Averaged
22 4,4'-DDD	69376715	79208560	79208560	0.010	-14.17168	15.00000	Averaged
23 Endosulfan II	49009195	52096600	52096600	0.010	-6.29964	15.00000	Averaged
24 4,4'-DDT	71610454	65463680	65463680	0.010	8.58363	15.00000	Averaged
25 Endrin aldehyde	36873332	39095000	39095000	0.010	-6.02514	15.00000	Averaged
26 Endosulfan sulfate	43014138	45118520	45118520	0.010	-4.89230	15.00000	Averaged
28 Methoxychlor	18761141	18682120	18682120	0.010	0.42119	15.00000	Averaged
29 Endrin ketone	50757420	53842520	53842520	0.010	-6.07813	15.00000	Averaged
$ 30 Decachlorobiphenyl	26949255	30362960	30362960	0.010	-12.66716	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.02577
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\037F3701.D
Lab Smp Id: AB3 G252
Inj Date : 09-MAR-2010 01:58
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB3 G252,,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:54 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-ab.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.694	5.694	0.000	2481640	0.02500	0.02508		
4 alpha-BHC						CAS #: 319-84-6	
6.771	6.771	0.000	2340949	0.02500	0.02606		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.406	7.406	0.000	1734663	0.02500	0.02567		
6 beta-BHC						CAS #: 319-85-7	
7.620	7.620	0.000	642830	0.02500	0.02572		
7 delta-BHC						CAS #: 319-86-8	
8.235	8.235	0.000	3419148	0.02500	0.02559		
8 Heptachlor						CAS #: 76-44-8	
8.312	8.312	0.000	3579515	0.02500	0.02547		
10 Aldrin						CAS #: 309-00-2	
9.060	9.060	0.000	3232498	0.02500	0.02480		
12 Heptachlor epoxide						CAS #: 1024-57-3	
10.220	10.220	0.000	1320103	0.02500	0.02570		
13 gamma-Chlordane						CAS #: 5103-74-2	
10.534	10.534	0.000	1363362	0.02500	0.02552		
14 alpha-Chlordane						CAS #: 5103-71-9	
10.767	10.767	0.000	1350988	0.02500	0.02519		

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--------------------------------------------------------------------------------
   16 4,4'-DDE                                    CAS #: 72-55-9
11.095  11.095    0.000         2522721 0.02500  0.02585
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
10.818	10.818	0.000	2673734	0.02500	0.02536		
17 Dieldrin					CAS #: 60-57-1		
11.217	11.217	0.000	2710151	0.02500	0.02503		
20 Endrin					CAS #: 72-20-8		
11.615	11.615	0.000	1345637	0.02500	0.02591		
22 4,4'-DDD					CAS #: 72-54-8		
11.859	11.859	0.000	1980214	0.02500	0.02854		
23 Endosulfan II					CAS #: 33213-65-9		
11.899	11.899	0.000	1302415	0.02500	0.02657		
24 4,4'-DDT					CAS #: 50-29-3		
12.234	12.234	0.000	1636592	0.02500	0.02285		
25 Endrin aldehyde					CAS #: 7421-93-4		
12.327	12.327	0.000	977375	0.02500	0.02651		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.653	12.653	0.000	1127963	0.02500	0.02622		
28 Methoxychlor					CAS #: 72-43-5		
13.042	13.042	0.000	467053	0.02500	0.02489		
29 Endrin ketone					CAS #: 53494-70-5		
13.230	13.230	0.000	1346063	0.02500	0.02652		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.692	14.692	0.000	759074	0.02500	0.02817		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\037F3701.D

Date : 09-MAR-2010 01:58

Client ID:

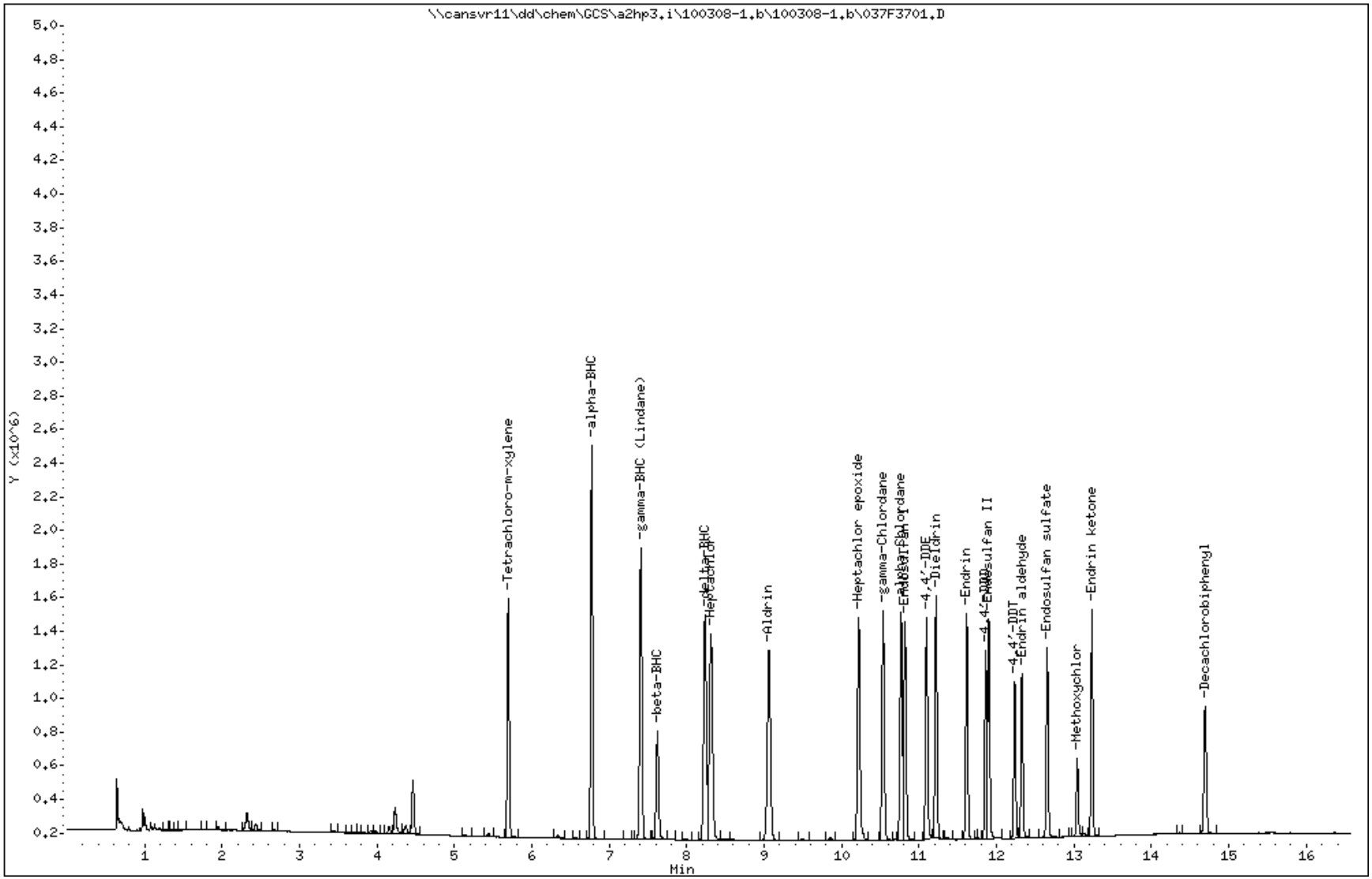
Instrument: a2hp3.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 01:58
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/037F3701.D
Lab Sample ID: AB3 G252
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	5.694	2481640	0.025	0.025
4)	alpha-BHC	6.772	4002679	0.026	0.026
5)	gamma-BHC (Lindane)	7.407	3594093	0.026	0.026
6)	beta-BHC	7.621	1502740	0.026	0.026
7)	delta-BHC	8.235	3419148	0.026	0.026
8)	Heptachlor	8.313	3579515	0.025	0.025
10)	Aldrin	9.060	3232498	0.025	0.025
12)	Heptachlor epoxide	10.220	3001368	0.026	0.026
13)	gamma-Chlordane	10.534	2871376	0.026	0.026
14)	alpha-Chlordane	10.768	2759677	0.025	0.025
15)	Endosulfan I	10.818	2673734	0.025	0.025
16)	4,4'-DDE	11.096	2522721	0.026	0.026
17)	Dieldrin	11.218	2710151	0.025	0.025
20)	Endrin	11.615	2468642	0.026	0.026
22)	4,4'-DDD	11.859	1980214	0.029	0.029
23)	Endosulfan II	11.899	2444793	0.027	0.027
24)	4,4'-DDT	12.234	1636592	0.023	0.023
25)	Endrin aldehyde	12.328	1770453	0.027	0.027
26)	Endosulfan sulfate	12.653	1987027	0.026	0.026
28)	Methoxychlor	13.043	837747	0.025	0.025
29)	Endrin ketone	13.231	2217564	0.027	0.027
30)	Decachlorobiphenyl	14.693	1696521	0.028	0.028

Report Date: 09-Mar-2010 08:02

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00711
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004611	92.21	70-130
5 gamma-BHC (Lindane	0.005000	0.004644	92.88	70-130
6 beta-BHC	0.005000	0.005373	107.47	70-130
7 delta-BHC	0.005000	0.004660	93.21	70-130
8 Heptachlor	0.005000	0.004992	99.84	70-130
10 Aldrin	0.005000	0.005111	102.23	70-130
12 Heptachlor epoxide	0.005000	0.004979	99.59	70-130
13 gamma-Chlordane	0.005000	0.004941	98.82	70-130
14 alpha-Chlordane	0.005000	0.005042	100.84	70-130
15 Endosulfan I	0.005000	0.005125	102.51	70-130
16 4,4'-DDE	0.005000	0.005094	101.87	70-130
17 Dieldrin	0.005000	0.005042	100.84	70-130
20 Endrin	0.005000	0.005006	100.12	70-130
22 4,4'-DDD	0.005000	0.005427	108.53	70-130
23 Endosulfan II	0.005000	0.005370	107.41	70-130
24 4,4'-DDT	0.005000	0.004191	83.82	70-130
25 Endrin aldehyde	0.005000	0.005388	107.76	70-130
26 Endosulfan sulfate	0.005000	0.005382	107.63	70-130
28 Methoxychlor	0.005000	0.004893	97.87	70-130
29 Endrin ketone	0.005000	0.005205	104.10	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\038F3801.D
Lab Smp Id: MRL
Inj Date : 09-MAR-2010 02:22
Operator : 093905 Inst ID: a2hp3.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 07:54 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 38 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
4 alpha-BHC						CAS #: 319-84-6	
6.771	6.771	0.000	414220	0.00461	0.004611		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.406	7.406	0.000	313797	0.00464	0.004644		
6 beta-BHC						CAS #: 319-85-7	
7.620	7.620	0.000	134268	0.00537	0.005373		
7 delta-BHC						CAS #: 319-86-8	
8.235	8.235	0.000	622586	0.00466	0.004660		
8 Heptachlor						CAS #: 76-44-8	
8.311	8.312	-0.001	701449	0.00499	0.004992		
10 Aldrin						CAS #: 309-00-2	
9.061	9.060	0.001	666090	0.00511	0.005111		

```
   12 Heptachlor epoxide                          CAS #: 1024-57-3
10.221  10.220    0.001          255752 0.00498  0.004979
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	
13 gamma-Chlordane					CAS #: 5103-74-2			
10.535	10.534	0.001	263998	0.00494	0.004941			
14 alpha-Chlordane					CAS #: 5103-71-9			
10.766	10.767	-0.001	270401	0.00504	0.005042			
15 Endosulfan I					CAS #: 959-98-8			
10.817	10.818	-0.001	540334	0.00513	0.005125			
16 4,4'-DDE					CAS #: 72-55-9			
11.096	11.095	0.001	497152	0.00509	0.005094			
17 Dieldrin					CAS #: 60-57-1			
11.217	11.217	0.000	545876	0.00504	0.005042			
20 Endrin					CAS #: 72-20-8			
11.615	11.615	0.000	259981	0.00501	0.005006			(M)
22 4,4'-DDD					CAS #: 72-54-8			
11.860	11.859	0.001	376488	0.00543	0.005427			
23 Endosulfan II					CAS #: 33213-65-9			
11.899	11.899	0.000	263196	0.00537	0.005370			
24 4,4'-DDT					CAS #: 50-29-3			
12.234	12.234	0.000	300119	0.00419	0.004191			
25 Endrin aldehyde					CAS #: 7421-93-4			
12.326	12.327	-0.001	198669	0.00539	0.005388			
26 Endosulfan sulfate					CAS #: 1031-07-8			
12.653	12.653	0.000	231490	0.00538	0.005382			
28 Methoxychlor					CAS #: 72-43-5			
13.041	13.042	-0.001	91804	0.00489	0.004893			
29 Endrin ketone					CAS #: 53494-70-5			
13.230	13.230	0.000	264181	0.00520	0.005205			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\038F3801.D

Date : 09-MAR-2010 02:22

Client ID:

Instrument: a2hp3.i

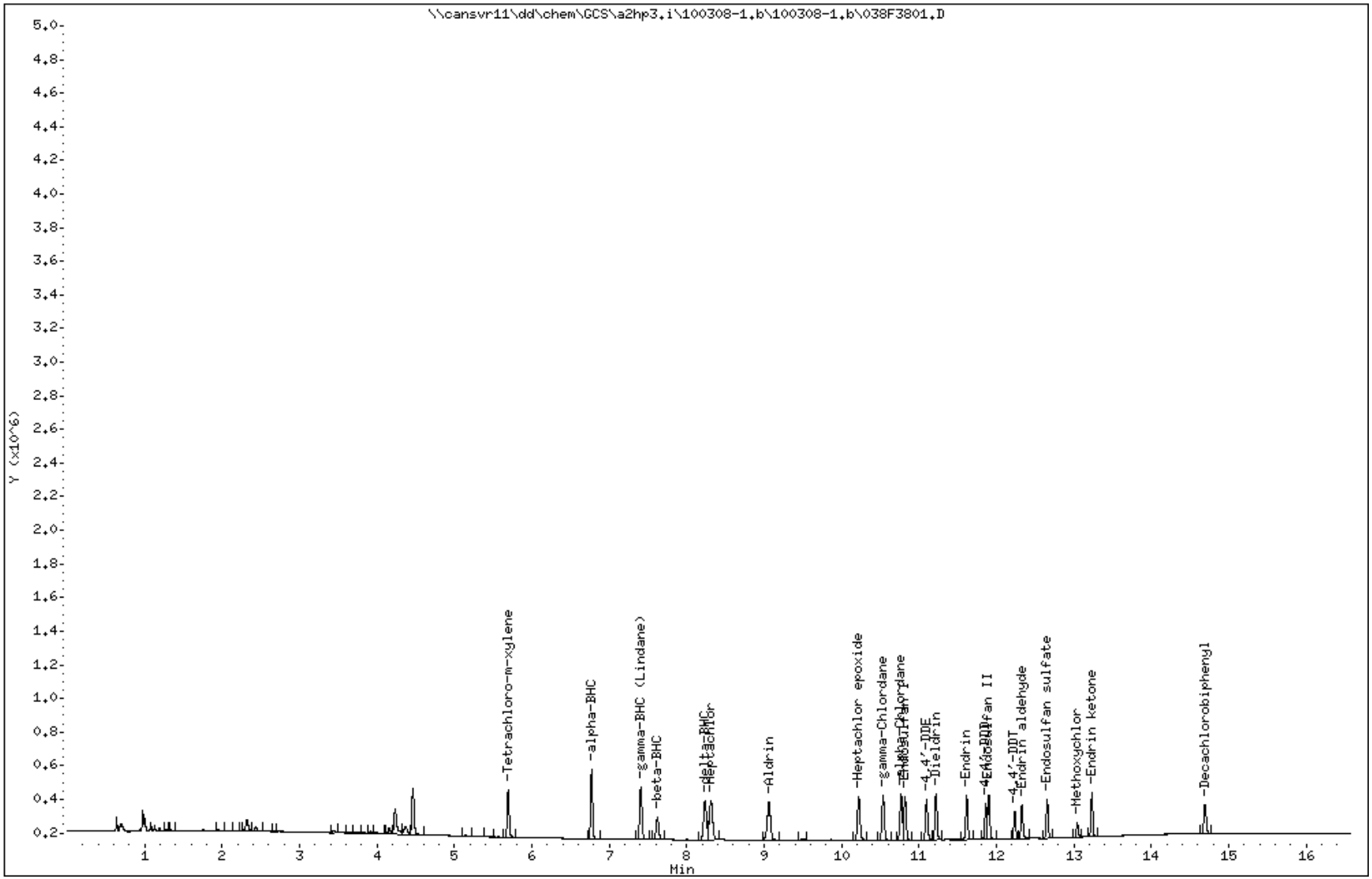
Sample Info: MRL

Volume Injected (uL): 1.0

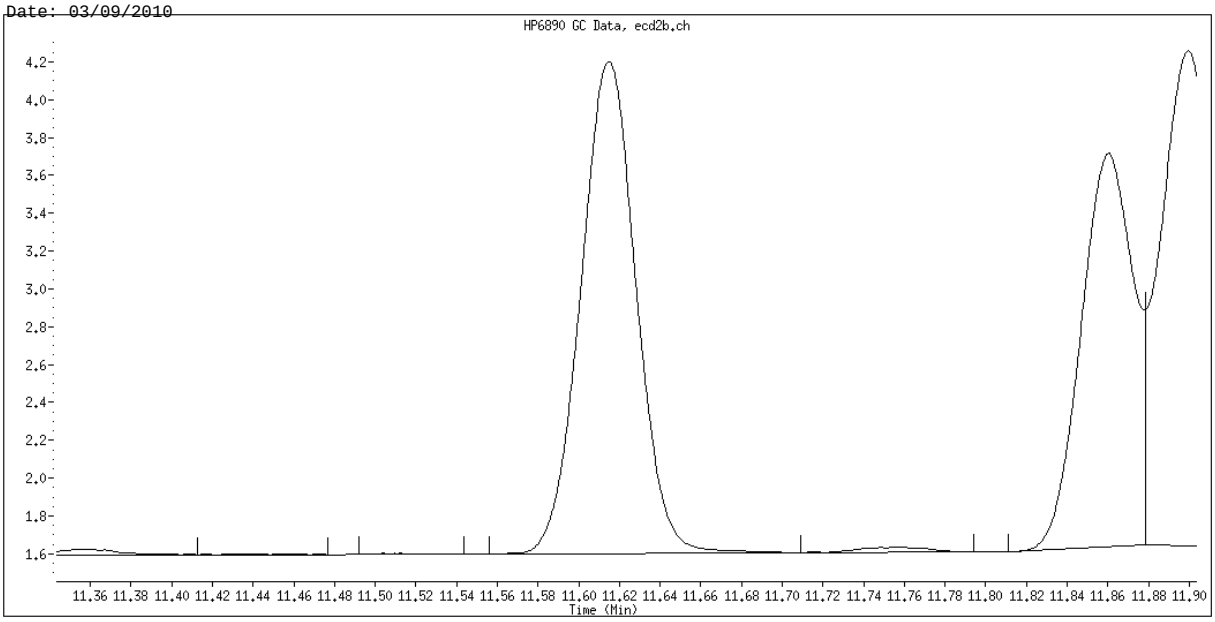
Operator: 093905

Column phase: clp pesticides II

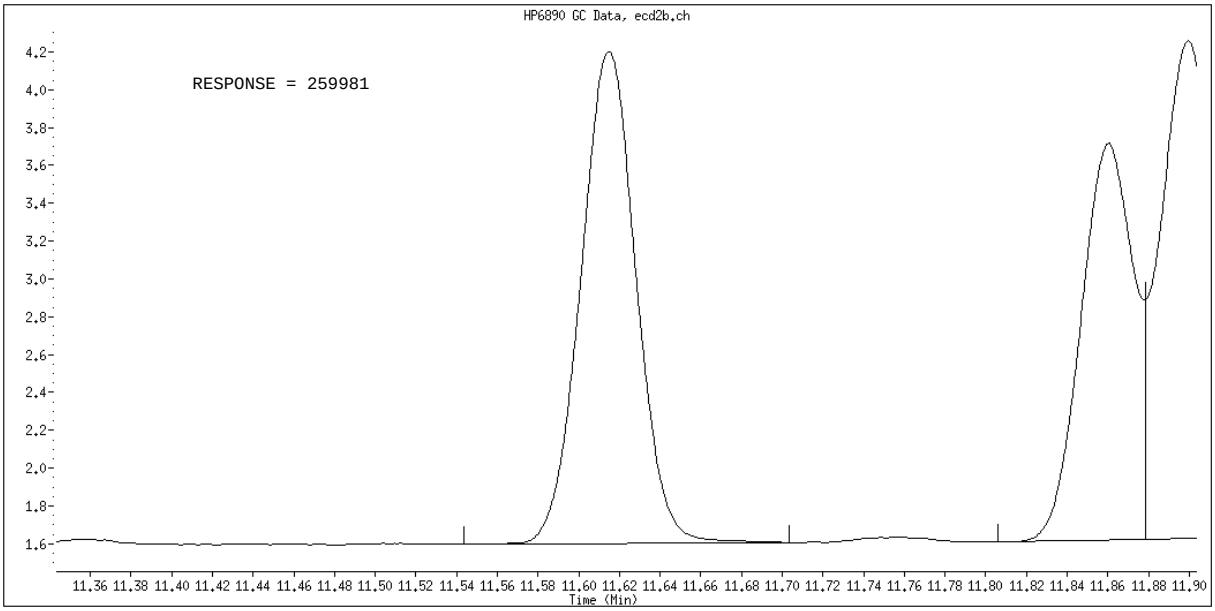
Column diameter: 0.53



Data File Name: 038F3801.D
Inj. Date and Time: 09-MAR-2010 02:22
Instrument ID: a2hp3.i
Client ID:
Compound Name: Endrin
CAS #: 72-20-8
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b/054F5401.D
Report Date: 03/09/2010

EVALB Degradation Report

Instrument ID: a2hp3.i Injection Date: 09-MAR-2010 09:08
Lab File ID: 054F5401.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
12.234	6176488	4,4'-DDT
11.096	127305	4,4'-DDE
11.859	581762	4,4'-DDD

Percent Degradation of 4,4'-DDT: 10.30

Endrin Degradation

RT	Area	Compound
11.616	4348135	Endrin
12.327	156452	Endrin aldehyde
13.229	432886	Endrin ketone

Percent Degradation of Endrin: 11.94

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\054F5401.D
Lab Smp Id: PEM E006
Inj Date : 09-MAR-2010 09:08
Operator : 093905 Inst ID: a2hp3.i
Smp Info : PEM E006
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 09:37 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 54 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-pem.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
6.771	6.769	0.002	804319	0.00895	0.008953		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
7.406	7.403	0.003	601915	0.00891	0.008908		
6 beta-BHC					CAS #: 319-85-7		
7.620	7.617	0.003	235248	0.00941	0.009414		
16 4,4'-DDE					CAS #: 72-55-9		
11.095	11.092	0.003	127305	0.00130	0.001304		
20 Endrin					CAS #: 72-20-8		
11.615	11.611	0.004	2363735	0.04551	0.04551		
22 4,4'-DDD					CAS #: 72-54-8		
11.859	11.856	0.003	581762	0.00839	0.008386		
23 Endosulfan II					CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		
12.234	12.231	0.003	6176488	0.08625	0.08625		
25 Endrin aldehyde					CAS #: 7421-93-4		
12.327	12.324	0.003	79043	0.00214	0.002144		

```
   28 Methoxychlor                                CAS #: 72-43-5
13.040  13.037    0.003         4357295 0.23225   0.2322
------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
13.229	13.227	0.002	206937	0.00408	0.004077		

Data File: \\CANSVR11\DD\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\054F5401.D

Date : 09-MAR-2010 09:08

Client ID:

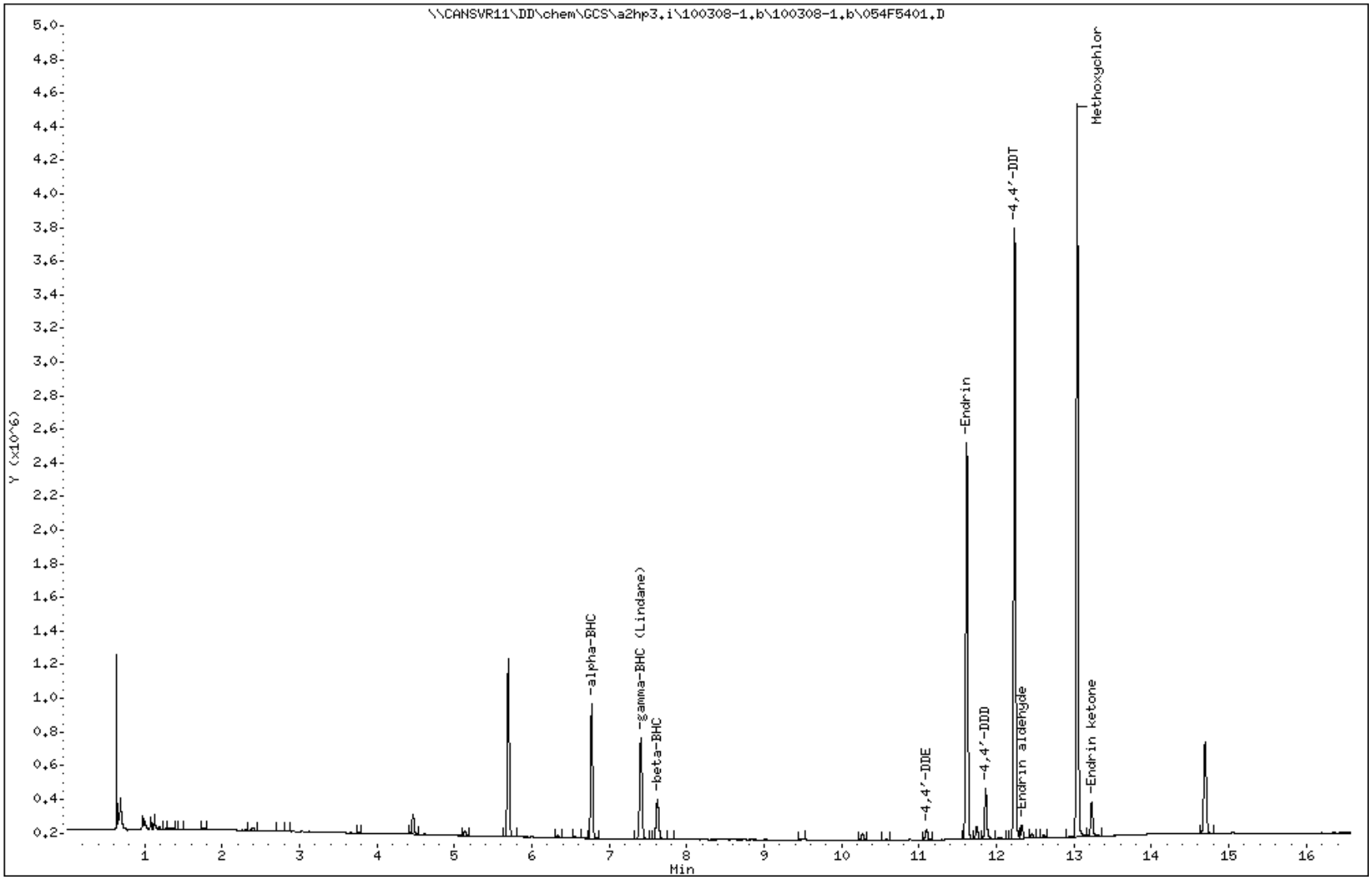
Instrument: a2hp3.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 09:08
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/054F5401.D
Lab Sample ID: PEM E006
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.695	1840604	0.019	0.019
2) Diallate	NOT DETECTED	Expected RT = 6.558		
3) Hexachlorobenzene	6.559	15962	0.000	0.000
4) alpha-BHC	6.772	1382311	0.009	0.009
5) gamma-BHC (Lindane)	7.407	1273495	0.009	0.009
6) beta-BHC	7.621	556546	0.009	0.009
9) Tech Chlordane	NOT DETECTED	Expected RT = 7.987		
7) delta-BHC	NOT DETECTED	Expected RT = 8.231		
8) Heptachlor	NOT DETECTED	Expected RT = 8.308		
10) Aldrin	NOT DETECTED	Expected RT = 9.058		
11) Isodrin	NOT DETECTED	Expected RT = 9.848		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 10.217		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 10.531		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 10.764		
15) Endosulfan I	NOT DETECTED	Expected RT = 10.815		
16) 4,4'-DDE	11.096	127305	0.001	0.001
17) Dieldrin	NOT DETECTED	Expected RT = 11.215		
20) Endrin	11.616	4348135	0.046	0.046
18) Chlorobenzilate	NOT DETECTED	Expected RT = 11.701		
21) Kepone	11.745	148973	0.000	0.000
22) 4,4'-DDD	11.859	581762	0.008	0.008
23) Endosulfan II	NOT DETECTED	Expected RT = 11.896		
19) Toxaphene	NOT DETECTED	Expected RT = 12.014		
24) 4,4'-DDT	12.234	6176488	0.086	0.086
25) Endrin aldehyde	12.327	156452	0.002	0.002
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.651		
28) Methoxychlor	13.041	7090278	0.232	0.232
27) Mirex	NOT DETECTED	Expected RT = 13.203		
29) Endrin ketone	13.229	432886	0.004	0.004
30) Decachlorobiphenyl	14.692	1218749	0.020	0.020

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\007F0701.D
Lab Smp Id: AB 1 SOLID MDL
Inj Date : 07-JAN-2010 12:12
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB 1 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m
Meth Date : 11-Jan-2010 09:46 vandorenc Quant Type: ESTD
Cal Date : 18-DEC-2009 13:54   Cal File: 013F1301.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-ab.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.882	4.882	0.000	3094830	0.00922	0.09217		
4 alpha-BHC						CAS #: 319-84-6	
5.838	5.836	0.002	4532250	0.00839	2.795		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.342	6.341	0.001	4091592	0.00851	2.836		
6 beta-BHC						CAS #: 319-85-7	
6.513	6.512	0.001	1733084	0.00913	3.044		
7 delta-BHC						CAS #: 319-86-8	
6.753	6.752	0.001	8038264	0.00921	3.071		
9 Heptachlor						CAS #: 76-44-8	
7.094	7.071	0.023	7938148	0.01861	6.204		

```
   10 Aldrin                                      CAS #: 309-00-2
7.567    7.565    0.002         2952382 0.00875    2.916
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```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
8.914	8.913	0.001	7236280	0.00943	3.145		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.186	9.186	0.000	2375488	0.00875	2.917		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.464	9.461	0.003	2574343	0.00929	3.097		
16 4,4'-DDE						CAS #: 72-55-9	
9.757	9.757	0.000	2529914	0.00918	3.059		
15 Endosulfan I						CAS #: 959-98-8	
9.674	9.673	0.001	6390749	0.00939	3.128		
17 Dieldrin						CAS #: 60-57-1	
10.106	10.105	0.001	2794661	0.00933	3.109		
20 Endrin						CAS #: 72-20-8	
10.454	10.452	0.002	2601316	0.00992	3.305		
22 4,4'-DDD						CAS #: 72-54-8	
10.715	10.714	0.001	2158427	0.00910	3.034		
23 Endosulfan II						CAS #: 33213-65-9	
10.793	10.792	0.001	2547735	0.00948	3.161		
24 4,4'-DDT						CAS #: 50-29-3	
11.106	11.105	0.001	2377467	0.00932	3.106		
26 Endrin aldehyde						CAS #: 7421-93-4	
11.395	11.394	0.001	2037409	0.00903	3.012		
27 Methoxychlor						CAS #: 72-43-5	
11.809	11.807	0.002	1249883	0.01011	3.369		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.945	11.944	0.001	2471338	0.00962	3.207		
29 Endrin ketone						CAS #: 53494-70-5	
12.255	12.254	0.001	2708859	0.00918	3.059		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.456	13.455	0.001	2608485	0.01004	0.1004		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\007F0701.D

Date : 07-JAN-2010 12:12

Client ID:

Instrument: a2hp3.i

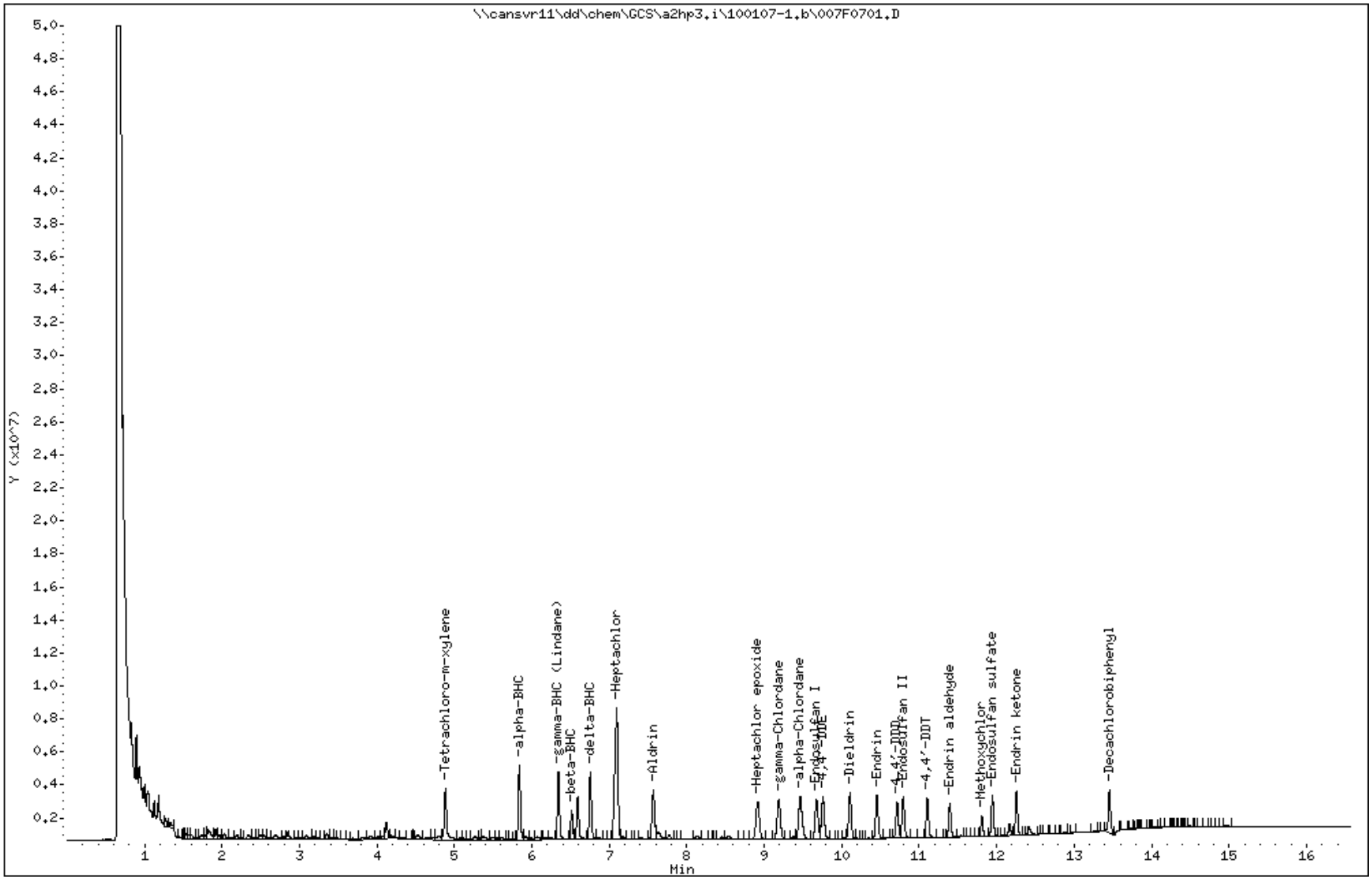
Sample Info: AB 1 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:12
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100107-1.b/007F0701.D
Lab Sample ID: AB 1 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.883	7126591	0.009	0.092 ug/Kg
4) alpha-BHC	5.839	8708955	0.008	2.795 ug/Kg
5) gamma-BHC (Lindane)	6.342	8020022	0.009	2.837 ug/Kg
6) beta-BHC	6.514	3389294	0.009	3.045 ug/Kg
7) delta-BHC	6.754	8038264	0.009	3.071 ug/Kg
9) Heptachlor	7.095	22551172	0.019	6.204 ug/Kg
10) Aldrin	7.567	7427210	0.009	2.916 ug/Kg
12) Heptachlor epoxide	8.915	7236280	0.009	3.145 ug/Kg
13) gamma-Chlordane	9.186	7160924	0.009	2.917 ug/Kg
14) alpha-Chlordane	9.465	8110968	0.009	3.097 ug/Kg
15) Endosulfan I	9.675	6390749	0.009	3.129 ug/Kg
16) 4,4'-DDE	9.758	6593133	0.009	3.059 ug/Kg
17) Dieldrin	10.106	6761989	0.009	3.109 ug/Kg
20) Endrin	10.455	6038323	0.010	3.305 ug/Kg
22) 4,4'-DDD	10.715	4638454	0.009	3.035 ug/Kg
23) Endosulfan II	10.794	5812155	0.009	3.161 ug/Kg
24) 4,4'-DDT	11.106	5037178	0.009	3.106 ug/Kg
26) Endrin aldehyde	11.395	4351731	0.009	3.012 ug/Kg
27) Methoxychlor	11.810	2481347	0.010	3.369 ug/Kg
28) Endosulfan sulfate	11.945	4965739	0.010	3.207 ug/Kg
29) Endrin ketone	12.255	5131663	0.009	3.059 ug/Kg
30) Decachlorobiphenyl	13.456	5425055	0.010	0.100 ug/Kg

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PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\008F0801.D
Lab Smp Id: AB 0.4 Solid MDL
Inj Date : 07-JAN-2010 12:37
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB 0.4 Solid MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m
Meth Date : 11-Jan-2010 09:46 vandorenc Quant Type: ESTD
Cal Date : 18-DEC-2009 13:54   Cal File: 013F1301.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-ab.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.885	4.882	0.003	1118862	0.00333	0.03332		
4 alpha-BHC						CAS #: 319-84-6	
5.839	5.836	0.003	1709004	0.00316	1.054		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.343	6.341	0.002	1508911	0.00314	1.046		
6 beta-BHC						CAS #: 319-85-7	
6.514	6.512	0.002	662230	0.00349	1.163		
7 delta-BHC						CAS #: 319-86-8	
6.754	6.752	0.002	3039239	0.00348	1.161		
9 Heptachlor						CAS #: 76-44-8	
7.095	7.071	0.024	2925496	0.00256	0.8530		

```
   10 Aldrin                                      CAS #: 309-00-2
7.567    7.565    0.002         1073633 0.00318    1.060
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
8.915	8.913	0.002	2907411	0.00379	1.264		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.186	9.186	0.000	902300	0.00332	1.108		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.462	9.461	0.001	987097	0.00356	1.188		
16 4,4'-DDE					CAS #: 72-55-9		
9.756	9.757	-0.001	938330	0.00340	1.134		
15 Endosulfan I					CAS #: 959-98-8		
9.674	9.673	0.001	2427061	0.00356	1.188		
17 Dieldrin					CAS #: 60-57-1		
10.106	10.105	0.001	1055497	0.00352	1.174		
20 Endrin					CAS #: 72-20-8		
10.453	10.452	0.001	1028531	0.00392	1.307		
22 4,4'-DDD					CAS #: 72-54-8		
10.714	10.714	0.000	822704	0.00347	1.157		
23 Endosulfan II					CAS #: 33213-65-9		
10.793	10.792	0.001	1013430	0.00377	1.257		
24 4,4'-DDT					CAS #: 50-29-3		
11.106	11.105	0.001	911975	0.00357	1.192		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.395	11.394	0.001	822161	0.00365	1.215		
27 Methoxychlor					CAS #: 72-43-5		
11.809	11.807	0.002	509465	0.00412	1.373		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.946	11.944	0.002	962671	0.00375	1.249		
29 Endrin ketone					CAS #: 53494-70-5		
12.256	12.254	0.002	1038465	0.00352	1.173		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.455	13.455	0.000	1002982	0.00386	0.03859		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\008F0801.D

Date : 07-JAN-2010 12:37

Client ID:

Instrument: a2hp3.i

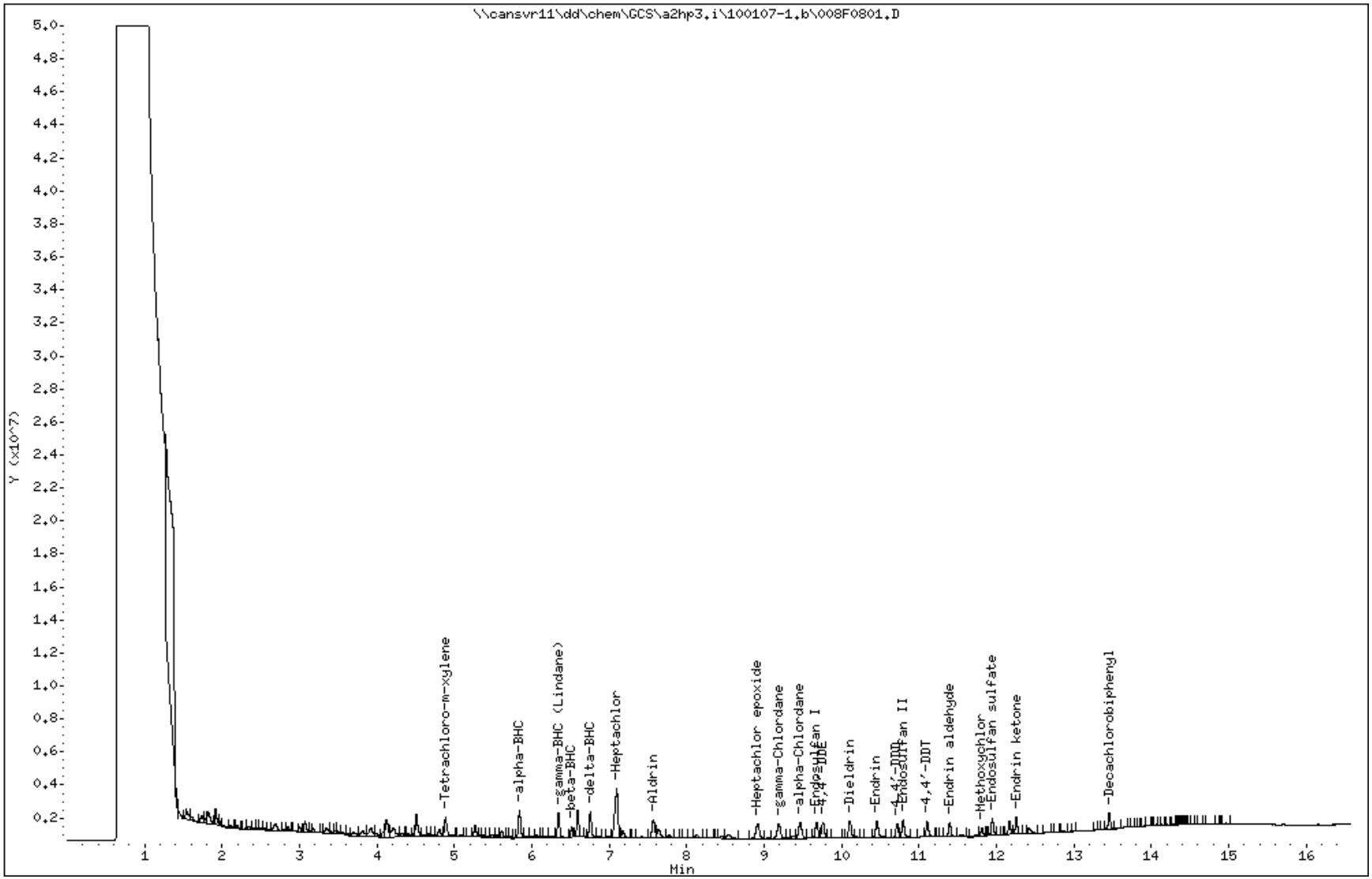
Sample Info: AB 0.4 Solid MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:37
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100107-1.b/008F0801.D
Lab Sample ID: AB 0.4 Solid MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.885	2877582	0.003	0.033 ug/Kg
4) alpha-BHC	5.839	3498161	0.003	1.054 ug/Kg
5) gamma-BHC (Lindane)	6.344	3010358	0.003	1.046 ug/Kg
6) beta-BHC	6.514	1273780	0.003	1.163 ug/Kg
7) delta-BHC	6.754	3039239	0.003	1.161 ug/Kg
9) Heptachlor	7.095	8250531	0.003	0.853 ug/Kg
10) Aldrin	7.568	2674869	0.003	1.061 ug/Kg
12) Heptachlor epoxide	8.915	2907411	0.004	1.264 ug/Kg
13) gamma-Chlordane	9.186	2912389	0.003	1.108 ug/Kg
14) alpha-Chlordane	9.463	2856210	0.004	1.188 ug/Kg
15) Endosulfan I	9.674	2427061	0.004	1.188 ug/Kg
16) 4,4'-DDE	9.756	2463210	0.003	1.135 ug/Kg
17) Dieldrin	10.106	2637551	0.004	1.174 ug/Kg
20) Endrin	10.454	2633482	0.004	1.307 ug/Kg
22) 4,4'-DDD	10.714	1777429	0.003	1.157 ug/Kg
23) Endosulfan II	10.794	2326872	0.004	1.257 ug/Kg
24) 4,4'-DDT	11.106	1956273	0.004	1.192 ug/Kg
26) Endrin aldehyde	11.395	1819345	0.004	1.215 ug/Kg
27) Methoxychlor	11.809	1114491	0.004	1.373 ug/Kg
28) Endosulfan sulfate	11.946	1917228	0.004	1.249 ug/Kg
29) Endrin ketone	12.256	1942042	0.004	1.173 ug/Kg
30) Decachlorobiphenyl	13.455	2050244	0.004	0.039 ug/Kg

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PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\009F0901.D
Lab Smp Id: AB 0.2 Solid MDL
Inj Date : 07-JAN-2010 13:02
Operator : 093905   Inst ID: a2hp3.i
Smp Info : AB 0.2 Solid MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m
Meth Date : 11-Jan-2010 09:46 vandorenc Quant Type: ESTD
Cal Date : 18-DEC-2009 13:54   Cal File: 013F1301.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-ab.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.886	4.882	0.004	623500	0.00186	0.01857		
4 alpha-BHC						CAS #: 319-84-6	
5.838	5.836	0.002	893778	0.00165	0.5512		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.342	6.341	0.001	842252	0.00175	0.5839		
6 beta-BHC						CAS #: 319-85-7	
6.513	6.512	0.001	367226	0.00194	0.6451		
7 delta-BHC						CAS #: 319-86-8	
6.754	6.752	0.002	1667052	0.00191	0.6370		
9 Heptachlor						CAS #: 76-44-8	
7.096	7.071	0.025	4323007	0.00703	2.345		

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   10 Aldrin                                        CAS #: 309-00-2
7.567    7.565    0.002          599362 0.00178   0.5921
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
8.916	8.913	0.003	1691284	0.00221	0.7350		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.187	9.186	0.001	478009	0.00176	0.5870		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.463	9.461	0.002	538071	0.00194	0.6474		
16 4,4'-DDE					CAS #: 72-55-9		
9.757	9.757	0.000	536761	0.00195	0.6490		
15 Endosulfan I					CAS #: 959-98-8		
9.676	9.673	0.003	1418821	0.00208	0.6946		
17 Dieldrin					CAS #: 60-57-1		
10.106	10.105	0.001	597821	0.00200	0.6651		
20 Endrin					CAS #: 72-20-8		
10.454	10.452	0.002	576781	0.00220	0.7329		
22 4,4'-DDD					CAS #: 72-54-8		
10.714	10.714	0.000	456737	0.00193	0.6421		
23 Endosulfan II					CAS #: 33213-65-9		
10.793	10.792	0.001	560326	0.00209	0.6952		
24 4,4'-DDT					CAS #: 50-29-3		
11.105	11.105	0.000	518407	0.00203	0.6774		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.393	11.394	-0.001	488955	0.00217	0.7227		
27 Methoxychlor					CAS #: 72-43-5		
11.807	11.807	0.000	257435	0.00208	0.6940		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.944	11.944	0.000	560644	0.00218	0.7275		
29 Endrin ketone					CAS #: 53494-70-5		
12.255	12.254	0.001	574904	0.00195	0.6492		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.456	13.455	0.001	567441	0.00218	0.02183		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\009F0901.D

Date : 07-JAN-2010 13:02

Client ID:

Instrument: a2hp3.i

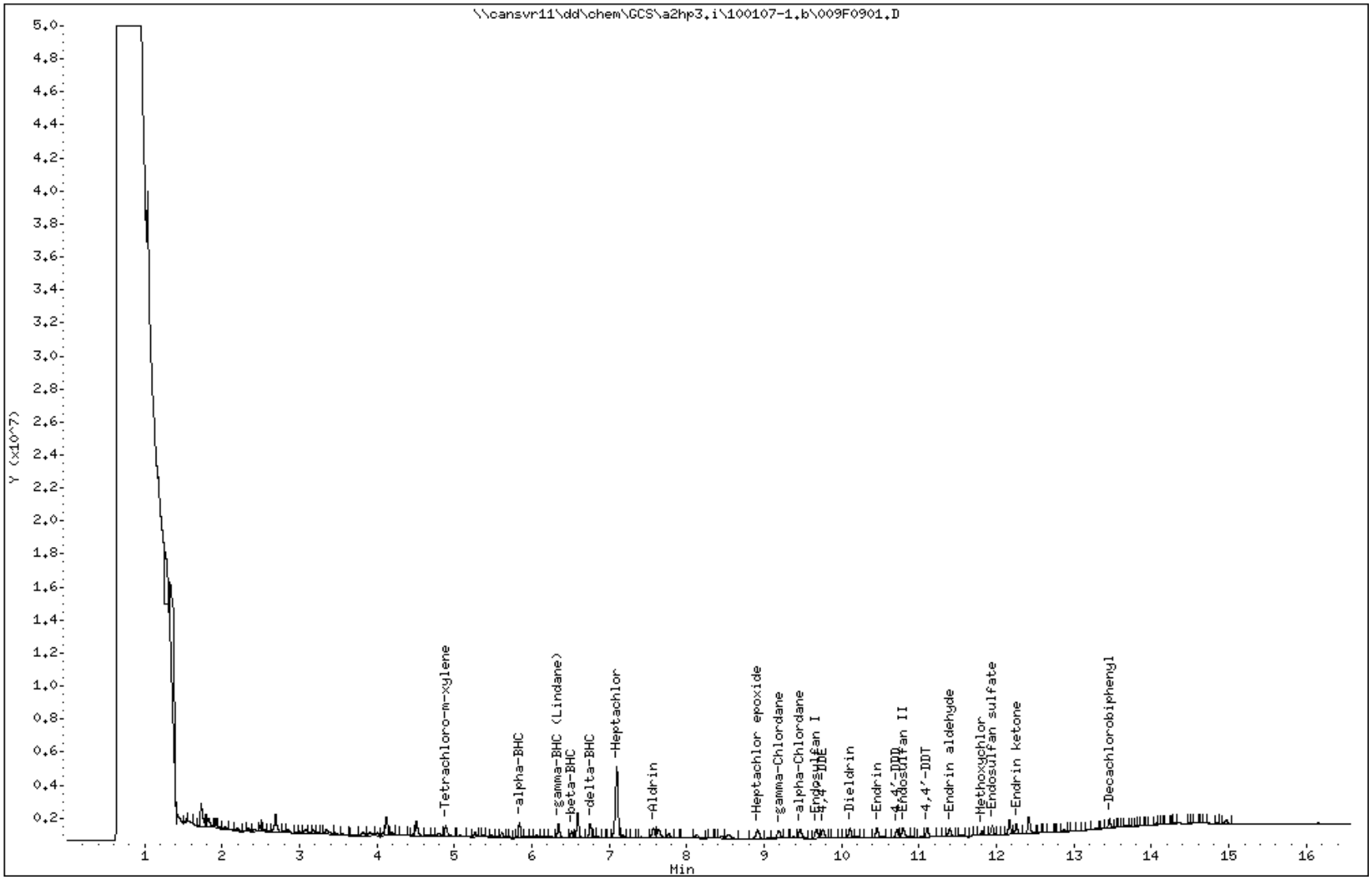
Sample Info: AB 0.2 Solid MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:02
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100107-1.b/009F0901.D
Lab Sample ID: AB 0.2 Solid MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.886	1686276	0.002	0.019 ug/Kg
4) alpha-BHC	5.839	1652097	0.002	0.551 ug/Kg
5) gamma-BHC (Lindane)	6.343	1658353	0.002	0.584 ug/Kg
6) beta-BHC	6.514	664565	0.002	0.645 ug/Kg
7) delta-BHC	6.755	1667052	0.002	0.637 ug/Kg
9) Heptachlor	7.096	10236384	0.007	2.345 ug/Kg
10) Aldrin	7.568	1462574	0.002	0.592 ug/Kg
12) Heptachlor epoxide	8.916	1691284	0.002	0.735 ug/Kg
13) gamma-Chlordane	9.187	1366873	0.002	0.587 ug/Kg
14) alpha-Chlordane	9.464	1535666	0.002	0.647 ug/Kg
15) Endosulfan I	9.676	1418821	0.002	0.695 ug/Kg
16) 4,4'-DDE	9.758	1419297	0.002	0.649 ug/Kg
17) Dieldrin	10.106	1507384	0.002	0.665 ug/Kg
20) Endrin	10.455	1603986	0.002	0.733 ug/Kg
22) 4,4'-DDD	10.715	1047925	0.002	0.642 ug/Kg
23) Endosulfan II	10.794	1397557	0.002	0.695 ug/Kg
24) 4,4'-DDT	11.105	1247941	0.002	0.677 ug/Kg
26) Endrin aldehyde	11.394	1133654	0.002	0.723 ug/Kg
27) Methoxychlor	11.808	467483	0.002	0.694 ug/Kg
28) Endosulfan sulfate	11.945	1197582	0.002	0.727 ug/Kg
29) Endrin ketone	12.255	1096629	0.002	0.649 ug/Kg
30) Decachlorobiphenyl	13.456	1207889	0.002	0.022 ug/Kg

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PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\010F1001.D
Lab Smp Id: TC SOLID MDL
Inj Date : 07-JAN-2010 13:26
Operator : 093905   Inst ID: a2hp3.i
Smp Info : TC SOLID MDL
Misc Info : TE-CHLOR SOLID MDL VERIFICATION tv = 5ug-kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m
Meth Date : 11-Jan-2010 09:46 vandorenc Quant Type: ESTD
Cal Date : 18-DEC-2009 13:54   Cal File: 013F1301.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 15-techlor.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE		RATIO
RT	EXP RT	DLT RT	RESPONSE					
8 Tech Chlordane					CAS #: 57-74-9			
6.942	6.940	0.002	493403	0.01528	5.092	0.00-	20.00	100.00
7.903	7.902	0.001	480805	0.01315	4.382	0.00-	20.00	97.45
9.188	9.186	0.002	1383507	0.01426	4.754	0.00-	20.00	280.40
9.462	9.458	0.004	2060684	0.01365	4.549	0.00-	20.00	417.65
		Average of Peak Concentrations =			4.694			

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\010F1001.D

Date : 07-JAN-2010 13:26

Client ID:

Instrument: a2hp3.i

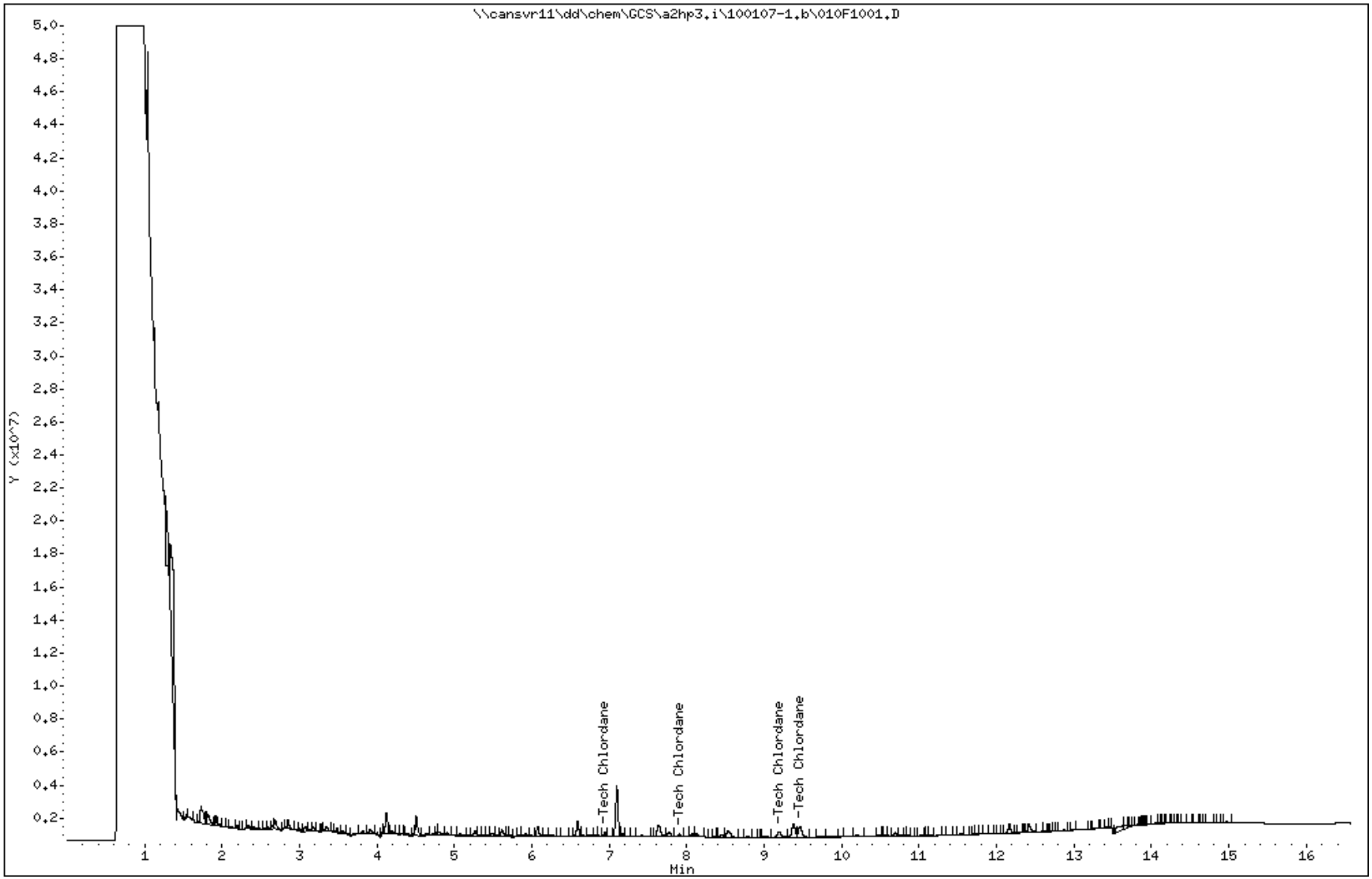
Sample Info: TC SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:26
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100107-1.b/010F1001.D
Lab Sample ID: TC SOLID MDL
Misc. Info: TE-CHLOR SOLID MDL VERIFICATION tv = 5ug-kg
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
8) Tech Chlordane	6.942	493403	0.015	5.092 ug/Kg

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\012F1201.D
Lab Smp Id: MDL SOLID BLK
Inj Date : 07-JAN-2010 14:16
Operator : 093905   Inst ID: a2hp3.i
Smp Info : MDL SOLID BLK
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m
Meth Date : 11-Jan-2010 09:46 vandorenc Quant Type: ESTD
Cal Date : 18-DEC-2009 13:54   Cal File: 013F1301.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 19-pestap9.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.901	4.882	0.019	613927	0.00183	0.01828		
25 Mirex						CAS #: 2385-85-5	

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene						CAS #: 118-74-1	
5.555	5.559	-0.004	255223	3e-004	0.08597		
		Average of Peak Concentrations =			0.08597		
2 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
21 Kepone					CAS #: 143-50-0		
Peaks not detected for Quant. or Qual. signal(s).							
18 Chlorobenzilate					CAS #: 510-15-6		
10.820	10.816	0.004	40253	0.00111	0.3706		
4 alpha-BHC					CAS #: 319-84-6		
5.832	5.836	-0.004	56592	1.e-004	0.03490		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
Peaks not detected for Quant. or Qual. signal(s).							
6 beta-BHC					CAS #: 319-85-7		
6.503	6.512	-0.009	14768	8e-005	0.02594		
7 delta-BHC					CAS #: 319-86-8		
6.749	6.752	-0.003	332346	4e-004	0.1270		
9 Heptachlor					CAS #: 76-44-8		
7.097	7.071	0.026	3931929	0.00578	1.927		
10 Aldrin					CAS #: 309-00-2		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
8.927	8.913	0.014	15666	2.e-005	0.006808		
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
Peaks not detected for Quant. or Qual. signal(s).							

---

15 Endosulfan I CAS #: 959-98-8

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

20 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 4,4'-DDD CAS #: 72-54-8

10.702	10.714	-0.012	7923	3e-005	0.01114		

---

23 Endosulfan II CAS #: 33213-65-9

10.763	10.792	-0.029	23071	9e-005	0.02862		

---

19 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endrin aldehyde CAS #: 7421-93-4

11.380	11.394	-0.014	43969	2e-004	0.06499		

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

11.925	11.944	-0.019	59795	2e-004	0.07759		

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

13.463	13.455	0.008	67766	3e-004	0.002607		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\012F1201.D

Date : 07-JAN-2010 14:16

Client ID:

Instrument: a2hp3.i

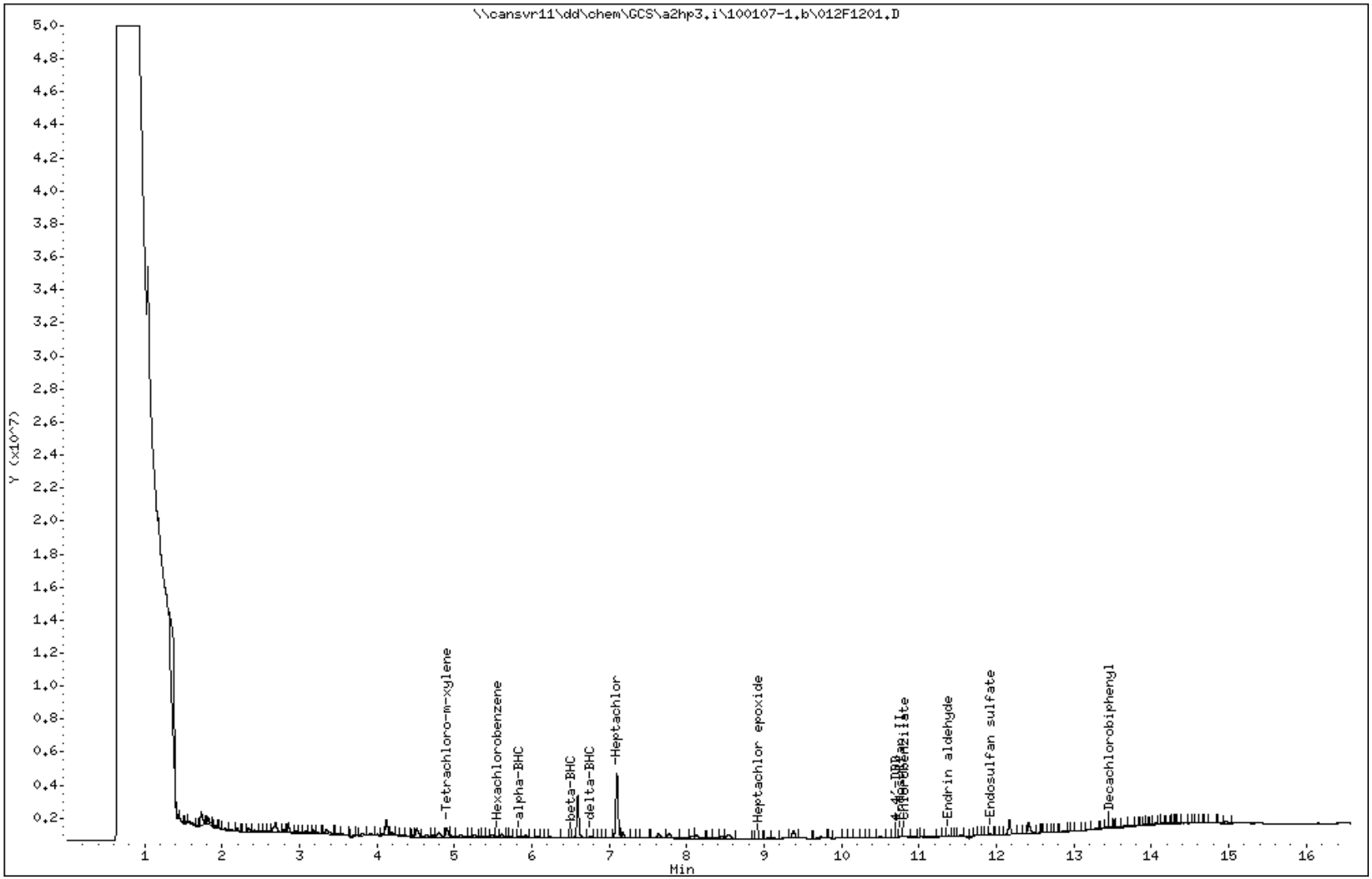
Sample Info: MDL SOLID BLK

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 14:16
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100107-1.b/012F1201.D
Lab Sample ID: MDL SOLID BLK
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.902	1340481	0.002	0.018 ug/Kg
3) Hexachlorobenzene	5.555	255223	0.000	0.086 ug/Kg
2) Diallate	NOT DETECTED	Expected RT = 5.734		
4) alpha-BHC	5.833	165223	0.000	0.035 ug/Kg
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 6.341		
6) beta-BHC	6.503	15120	0.000	0.026 ug/Kg
7) delta-BHC	6.749	332346	0.000	0.127 ug/Kg
8) Tech Chlordane	NOT DETECTED	Expected RT = 6.940		
9) Heptachlor	7.098	8286790	0.006	1.927 ug/Kg
10) Aldrin	NOT DETECTED	Expected RT = 7.565		
11) Isodrin	NOT DETECTED	Expected RT = 8.255		
12) Heptachlor epoxide	8.928	15666	0.000	0.007 ug/Kg
13) gamma-Chlordane	NOT DETECTED	Expected RT = 9.186		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 9.461		
15) Endosulfan I	NOT DETECTED	Expected RT = 9.674		
16) 4,4'-DDE	NOT DETECTED	Expected RT = 9.757		
17) Dieldrin	NOT DETECTED	Expected RT = 10.105		
20) Endrin	NOT DETECTED	Expected RT = 10.453		
21) Kepone	NOT DETECTED	Expected RT = 10.535		
22) 4,4'-DDD	10.703	8866	0.000	0.011 ug/Kg
23) Endosulfan II	10.763	42027	0.000	0.029 ug/Kg
18) Chlorobenzilate	10.820	40253	0.001	0.371 ug/Kg
19) Toxaphene	NOT DETECTED	Expected RT = 10.892		
24) 4,4'-DDT	NOT DETECTED	Expected RT = 11.105		
26) Endrin aldehyde	11.380	75304	0.000	0.065 ug/Kg
25) Mirex	NOT DETECTED	Expected RT = 11.660		
27) Methoxychlor	NOT DETECTED	Expected RT = 11.808		
28) Endosulfan sulfate	11.926	101631	0.000	0.078 ug/Kg
29) Endrin ketone	NOT DETECTED	Expected RT = 12.255		
30) Decachlorobiphenyl	13.463	158687	0.000	0.003 ug/Kg

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PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\007F0701.D
Lab Smp Id: TOX SOLID MDL
Inj Date : 15-JAN-2010 17:10
Operator : 093905   Inst ID: a2hp3.i
Smp Info : TOX SOLID MDL
Misc Info : TOX SOLID MDL VERIFICATION   tv = 20 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\PEST3.m
Meth Date : 18-Jan-2010 08:30 vandorenc Quant Type: ESTD
Cal Date : 12-JAN-2010 02:49   Cal File: 031F3101.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 16-toxaph.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
10.890	10.889	0.001	447167	0.04337	14.46	80.00- 120.00	100.00
11.233	11.233	0.000	417374	0.04201	14.00	114.04- 154.04	93.34
11.534	11.534	0.000	537284	0.05353	17.84	115.64- 155.64	120.15
11.797	11.796	0.001	496703	0.04015	13.38	52.78- 92.78	111.08
12.107	12.105	0.002	247281	0.03696	12.32	69.36- 109.36	55.30
		Average of Peak Concentrations =			14.40		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\007F0701.D

Date : 15-JAN-2010 17:10

Client ID:

Instrument: a2hp3.i

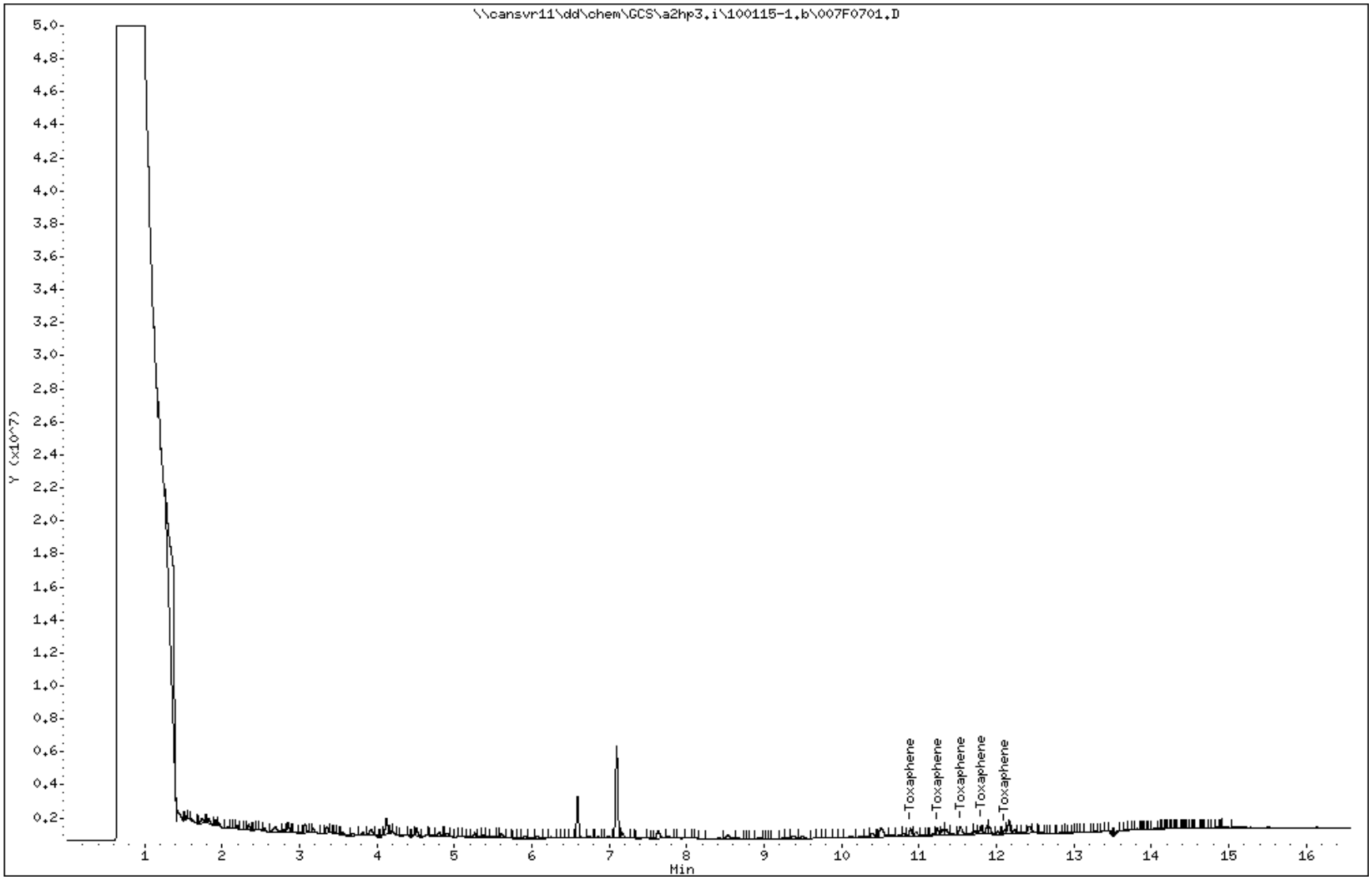
Sample Info: TOX SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-JAN-2010 17:10
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100115-1.b/007F0701.D
Lab Sample ID: TOX SOLID MDL
Misc. Info: TOX SOLID MDL VERIFICATION tv = 20 ug/kg
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	10.891	1069213	0.043	14.457 ug/Kg

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PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\008F0801.D
Lab Smp Id: TOX MDL BLK
Inj Date : 15-JAN-2010 17:35
Operator : 093905   Inst ID: a2hp3.i
Smp Info : TOX MDL BLK
Misc Info : TOX SOLID MDL VERIFICATION BLANK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\PEST3.m
Meth Date : 18-Jan-2010 08:30 vandorenc Quant Type: ESTD
Cal Date : 12-JAN-2010 02:49   Cal File: 031F3101.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 19-pestap9.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.901	4.880	0.021	217995	6e-004	0.006127		
25 Mirex						CAS #: 2385-85-5	
11.593	11.602	-0.009	41095				
3 Hexachlorobenzene						CAS #: 118-74-1	
5.553	5.532	0.021	43222	4.e-005	0.01332		
Average of Peak Concentrations =					0.01332		
2 Diallate						CAS #: 2303-16-4	
Qualifier signal(s) failed ratio test.							
11 Isodrin						CAS #: 465-73-6	
8.180	8.209	-0.029	93847	1e-004	0.03592		
21 Kepone						CAS #: 143-50-0	

```
10.505  10.500    0.005          189225 0.06652    22.17
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

18 Chlorobenzilate CAS #: 510-15-6

Qualifier signal(s) failed ratio test.

---

4 alpha-BHC CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

---

5 gamma-BHC (Lindane) CAS #: 58-89-9

6.340	6.340	0.000	15695	3.e-005	0.01015		

---

6 beta-BHC CAS #: 319-85-7

6.491	6.510	-0.019	11032	5e-005	0.01813		

---

7 delta-BHC CAS #: 319-86-8

6.762	6.751	0.011	393853	4e-004	0.1379		

---

9 Heptachlor CAS #: 76-44-8

7.094	7.089	0.005	6410341	0.01621	5.402		

---

10 Aldrin CAS #: 309-00-2

7.556	7.563	-0.007	15692	4e-005	0.01450		

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

16 4,4'-DDE CAS #: 72-55-9

9.761	9.753	0.008	46514	2e-004	0.05052		

---

15 Endosulfan I CAS #: 959-98-8

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

```
--------------------------------------------------------------------------------
   20 Endrin                                      CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

--------------------------------------------------------------------------------
   22 4,4'-DDD                                    CAS #: 72-54-8
10.694  10.711   -0.017           12330  4e-005  0.01490
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
23 Endosulfan II					CAS #: 33213-65-9		
10.814	10.789	0.025	24133	8.e-005	0.02681		
19 Toxaphene					CAS #: 8001-35-2		
10.899	10.889	0.010	8180	8e-004	0.2645	80.00- 120.00	100.00
11.209	11.233	-0.024	29067	0.00293	0.9753	114.04- 154.04	355.34
11.533	11.534	-0.001	139712	0.01392	4.640	115.64- 155.64	1707.97
11.781	11.796	-0.015	9720	8e-004	0.2619	52.78- 92.78	118.83
12.093	12.105	-0.012	5052	8e-004	0.2517	69.36- 109.36	61.76
Average of Peak Concentrations =					1.279		
8 Tech Chlordane					CAS #: 57-74-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		

Peaks not detected for Quant. or Qual. signal(s).

26 Endrin aldehyde					CAS #: 7421-93-4		
11.376	11.391	-0.015	289667	6e-004	0.1861		
27 Methoxychlor					CAS #: 72-43-5		
11.781	11.804	-0.023	9720	7e-005	0.02254		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.922	11.941	-0.019	100955	3e-004	0.1121		
29 Endrin ketone					CAS #: 53494-70-5		
12.234	12.251	-0.017	17863	3e-005	0.009473		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.471	13.451	0.020	54304	2e-004	0.001884		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\008F0801.D

Date : 15-JAN-2010 17:35

Client ID:

Instrument: a2hp3.i

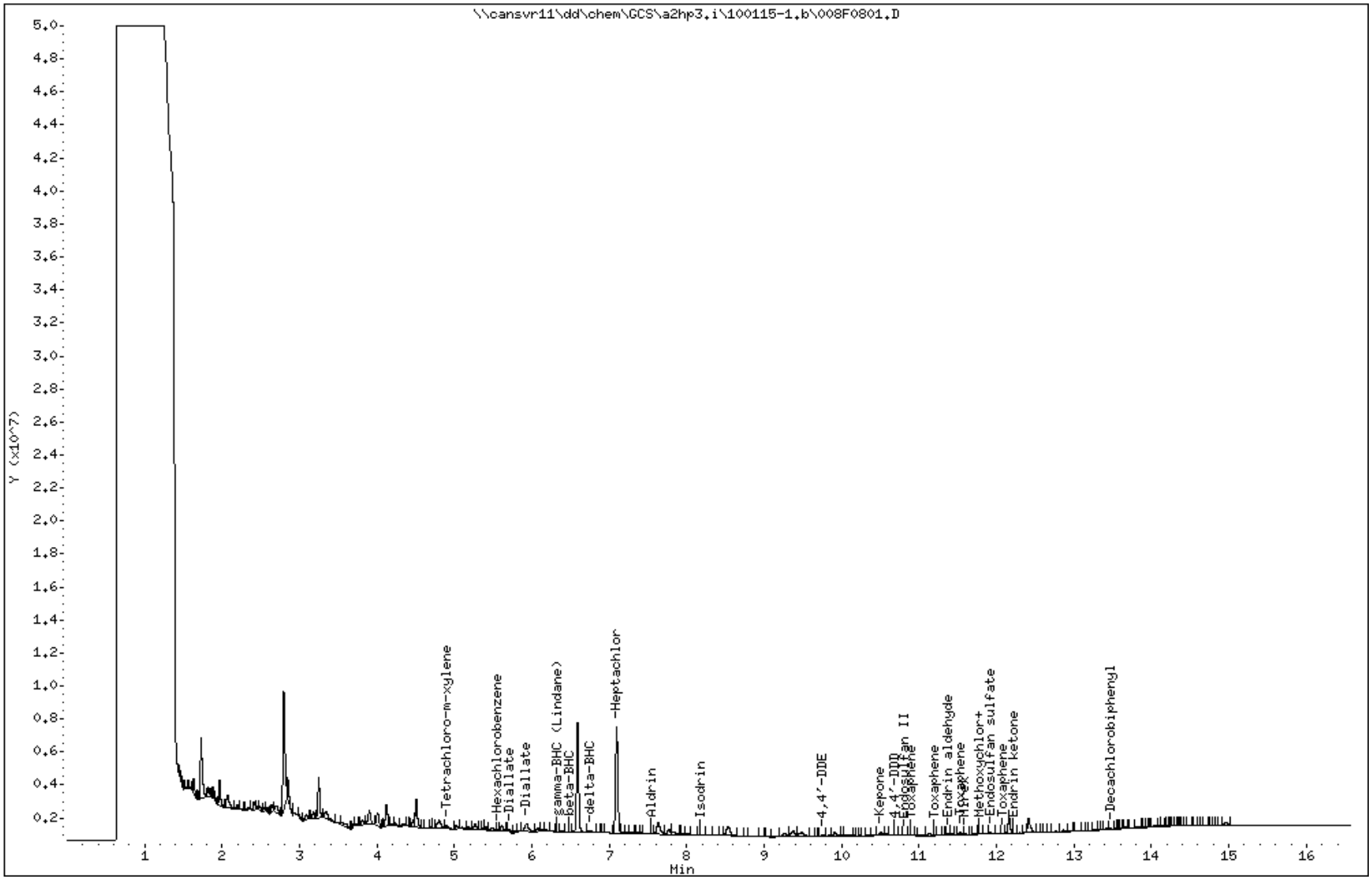
Sample Info: TOX MDL BLK

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-JAN-2010 17:35
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100115-1.b/008F0801.D
Lab Sample ID: TOX MDL BLK
Misc. Info: TOX SOLID MDL VERIFICATION BLANK
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\PEST3.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.902	516896	0.001	0.006 ug/Kg
3)	Hexachlorobenzene	5.553	43222	0.000	0.013 ug/Kg
2)	Diallate	NOT DETECTED	Expected RT = 5.708		
4)	alpha-BHC	NOT DETECTED	Expected RT = 5.836		
5)	gamma-BHC (Lindane)	6.341	18514	0.000	0.010 ug/Kg
6)	beta-BHC	6.492	13252	0.000	0.018 ug/Kg
7)	delta-BHC	6.762	393853	0.000	0.138 ug/Kg
8)	Tech Chlordane	NOT DETECTED	Expected RT = 6.939		
9)	Heptachlor	7.095	13242663	0.016	5.403 ug/Kg
10)	Aldrin	7.557	28323	0.000	0.015 ug/Kg
11)	Isodrin	8.181	93847	0.000	0.036 ug/Kg
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 8.909		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 9.184		
14)	alpha-Chlordane	NOT DETECTED	Expected RT = 9.459		
15)	Endosulfan I	NOT DETECTED	Expected RT = 9.671		
16)	4,4'-DDE	9.762	149690	0.000	0.051 ug/Kg
17)	Dieldrin	NOT DETECTED	Expected RT = 10.103		
20)	Endrin	NOT DETECTED	Expected RT = 10.451		
21)	Kepone	10.506	670965	0.067	22.173 ug/Kg
22)	4,4'-DDD	10.694	20150	0.000	0.015 ug/Kg
18)	Chlorobenzilate	NOT DETECTED	Expected RT = 10.783		
23)	Endosulfan II	10.814	56973	0.000	0.027 ug/Kg
19)	Toxaphene	10.899	17106	0.001	0.264 ug/Kg
24)	4,4'-DDT	NOT DETECTED	Expected RT = 11.102		
26)	Endrin aldehyde	11.377	289667	0.001	0.186 ug/Kg
25)	Mirex	11.593	80466	0.000	0.000 ug/Kg
27)	Methoxychlor	11.782	24067	0.000	0.023 ug/Kg
28)	Endosulfan sulfate	11.922	193568	0.000	0.112 ug/Kg
29)	Endrin ketone	12.235	17863	0.000	0.009 ug/Kg
30)	Decachlorobiphenyl	13.472	138672	0.000	0.002 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\100107-1.b\007F0701.D
Lab Smp Id: AB 1 SOLID MDL
Inj Date : 07-JAN-2010 12:12
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB 1 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m\pest3r.m
Meth Date : 11-Jan-2010 10:00 vandorenc Quant Type: ESTD
Cal Date : 18-DEC-2009 13:54 Cal File: 013F1301.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.735	5.733	0.002	736231	0.00915	0.09153		
4 alpha-BHC						CAS #: 319-84-6	
6.815	6.813	0.002	534145	0.00754	2.514		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.459	7.457	0.002	411488	0.00788	2.626		
6 beta-BHC						CAS #: 319-85-7	
7.673	7.672	0.001	183015	0.00905	3.018		
7 delta-BHC						CAS #: 319-86-8	
8.299	8.297	0.002	328601	0.00796	2.652		
8 Heptachlor						CAS #: 76-44-8	
8.380	8.378	0.002	833767	0.00877	2.922		

```
   10 Aldrin                                      CAS #: 309-00-2
9.127    9.126    0.001          816392 0.00789    2.630
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
10.272	10.272	0.000	340401	0.00825	2.750		
13 gamma-Chlordane					CAS #: 5103-74-2		
10.583	10.582	0.001	355614	0.00827	2.756		
14 alpha-Chlordane					CAS #: 5103-71-9		
10.815	10.812	0.003	357165	0.00835	2.784		
16 4,4'-DDE					CAS #: 72-55-9		
11.137	11.136	0.001	353617	0.00830	2.765		
15 Endosulfan I					CAS #: 959-98-8		
10.867	10.864	0.003	695479	0.00879	2.931		
17 Dieldrin					CAS #: 60-57-1		
11.263	11.262	0.001	709269	0.00847	2.823		
20 Endrin					CAS #: 72-20-8		
11.659	11.657	0.002	656330	0.00963	3.210		
22 4,4'-DDD					CAS #: 72-54-8		
11.897	11.896	0.001	302869	0.00877	2.924		
23 Endosulfan II					CAS #: 33213-65-9		
11.942	11.940	0.002	353948	0.00919	3.064		
24 4,4'-DDT					CAS #: 50-29-3		
12.271	12.270	0.001	320393	0.00970	3.234		
25 Endrin aldehyde					CAS #: 7421-93-4		
12.367	12.366	0.001	293074	0.00923	3.076		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.693	12.691	0.002	339946	0.01097	3.655		
28 Methoxychlor					CAS #: 72-43-5		
13.077	13.073	0.004	198070	0.01155	3.851		
29 Endrin ketone					CAS #: 53494-70-5		
13.269	13.267	0.002	412087	0.01275	4.251		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.737	14.733	0.004	235713	0.01057	0.1057		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\100107-1.b\007F0701.D

Date : 07-JAN-2010 12:12

Client ID:

Instrument: a2hp3.i

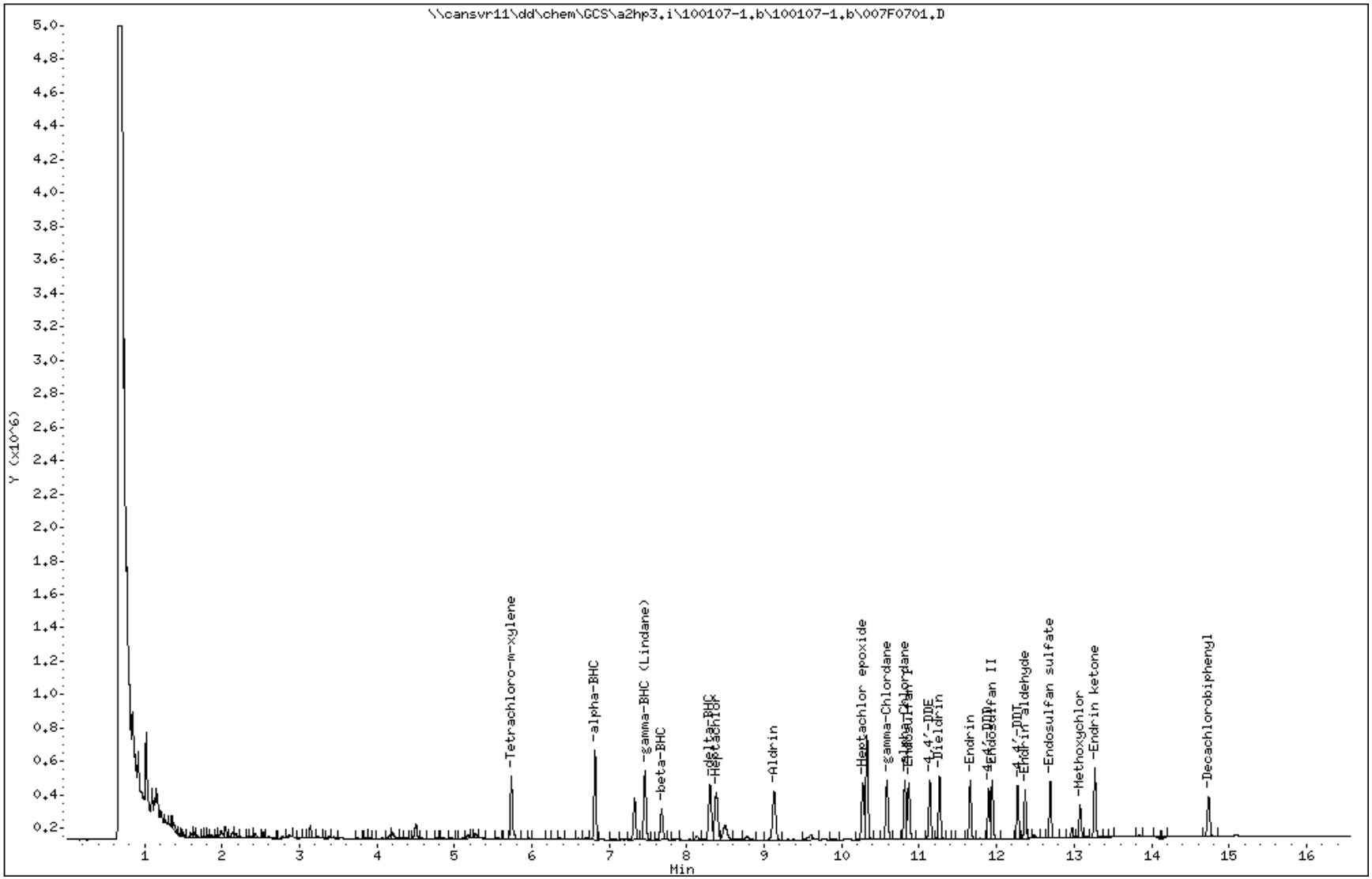
Sample Info: AB 1 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:12
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100107-1.b/100107-1.b/007F0701.D
Lab Sample ID: AB 1 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	5.735	736231	0.009	0.092 ug/Kg
4)	alpha-BHC	6.815	925024	0.008	2.514 ug/Kg
5)	gamma-BHC (Lindane)	7.460	860595	0.008	2.627 ug/Kg
6)	beta-BHC	7.674	436453	0.009	3.018 ug/Kg
7)	delta-BHC	8.300	864667	0.008	2.653 ug/Kg
8)	Heptachlor	8.380	833767	0.009	2.922 ug/Kg
10)	Aldrin	9.127	816392	0.008	2.631 ug/Kg
12)	Heptachlor epoxide	10.273	732893	0.008	2.750 ug/Kg
13)	gamma-Chlordane	10.584	743458	0.008	2.756 ug/Kg
14)	alpha-Chlordane	10.815	728836	0.008	2.785 ug/Kg
15)	Endosulfan I	10.867	695479	0.009	2.931 ug/Kg
16)	4,4'-DDE	11.138	660296	0.008	2.765 ug/Kg
17)	Dieldrin	11.264	709269	0.008	2.823 ug/Kg
20)	Endrin	11.660	656330	0.010	3.210 ug/Kg
22)	4,4'-DDD	11.898	524585	0.009	2.924 ug/Kg
23)	Endosulfan II	11.942	657614	0.009	3.064 ug/Kg
24)	4,4'-DDT	12.271	549575	0.010	3.235 ug/Kg
25)	Endrin aldehyde	12.368	513764	0.009	3.076 ug/Kg
26)	Endosulfan sulfate	12.694	595950	0.011	3.655 ug/Kg
28)	Methoxychlor	13.077	357528	0.012	3.851 ug/Kg
29)	Endrin ketone	13.270	719909	0.013	4.251 ug/Kg
30)	Decachlorobiphenyl	14.737	535253	0.011	0.106 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\100107-1.b\008F0801.D
Lab Smp Id: AB 0.4 Solid MDL
Inj Date : 07-JAN-2010 12:37
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB 0.4 Solid MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m\pest3r.m
Meth Date : 11-Jan-2010 10:00 vandorenc Quant Type: ESTD
Cal Date : 18-DEC-2009 13:54 Cal File: 013F1301.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.736	5.733	0.003	261516	0.00325	0.03251		
4 alpha-BHC						CAS #: 319-84-6	
6.815	6.813	0.002	176341	0.00249	0.8300		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.459	7.457	0.002	144964	0.00278	0.9253		
6 beta-BHC						CAS #: 319-85-7	
7.675	7.672	0.003	74917	0.00371	1.235		
7 delta-BHC						CAS #: 319-86-8	
8.299	8.297	0.002	115102	0.00279	0.9291		
8 Heptachlor						CAS #: 76-44-8	
8.381	8.378	0.003	308475	0.00324	1.081		

```
   10 Aldrin                                      CAS #: 309-00-2
9.127    9.126    0.001          327504 0.00317    1.055
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
10.273	10.272	0.001	127058	0.00308	1.026		
13 gamma-Chlordane						CAS #: 5103-74-2	
10.585	10.582	0.003	129048	0.00300	1.0000		
14 alpha-Chlordane						CAS #: 5103-71-9	
10.815	10.812	0.003	132007	0.00309	1.029		
16 4,4'-DDE						CAS #: 72-55-9	
11.137	11.136	0.001	124114	0.00291	0.9705		
15 Endosulfan I						CAS #: 959-98-8	
10.866	10.864	0.002	261712	0.00331	1.103		
17 Dieldrin						CAS #: 60-57-1	
11.264	11.262	0.002	258581	0.00309	1.029		
20 Endrin						CAS #: 72-20-8	
11.658	11.657	0.001	243142	0.00357	1.189		
22 4,4'-DDD						CAS #: 72-54-8	
11.897	11.896	0.001	109385	0.00317	1.056		
23 Endosulfan II						CAS #: 33213-65-9	
11.941	11.940	0.001	131628	0.00342	1.140		
24 4,4'-DDT						CAS #: 50-29-3	
12.272	12.270	0.002	107033	0.00324	1.080		
25 Endrin aldehyde						CAS #: 7421-93-4	
12.367	12.366	0.001	112990	0.00356	1.186		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.692	12.691	0.001	131053	0.00423	1.409		
28 Methoxychlor						CAS #: 72-43-5	
13.077	13.073	0.004	87829	0.00512	1.707		
29 Endrin ketone						CAS #: 53494-70-5	
13.266	13.267	-0.001	173732	0.00538	1.792		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.735	14.733	0.002	94072	0.00422	0.04217		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\100107-1.b\008F0801.D

Date : 07-JAN-2010 12:37

Client ID:

Instrument: a2hp3.i

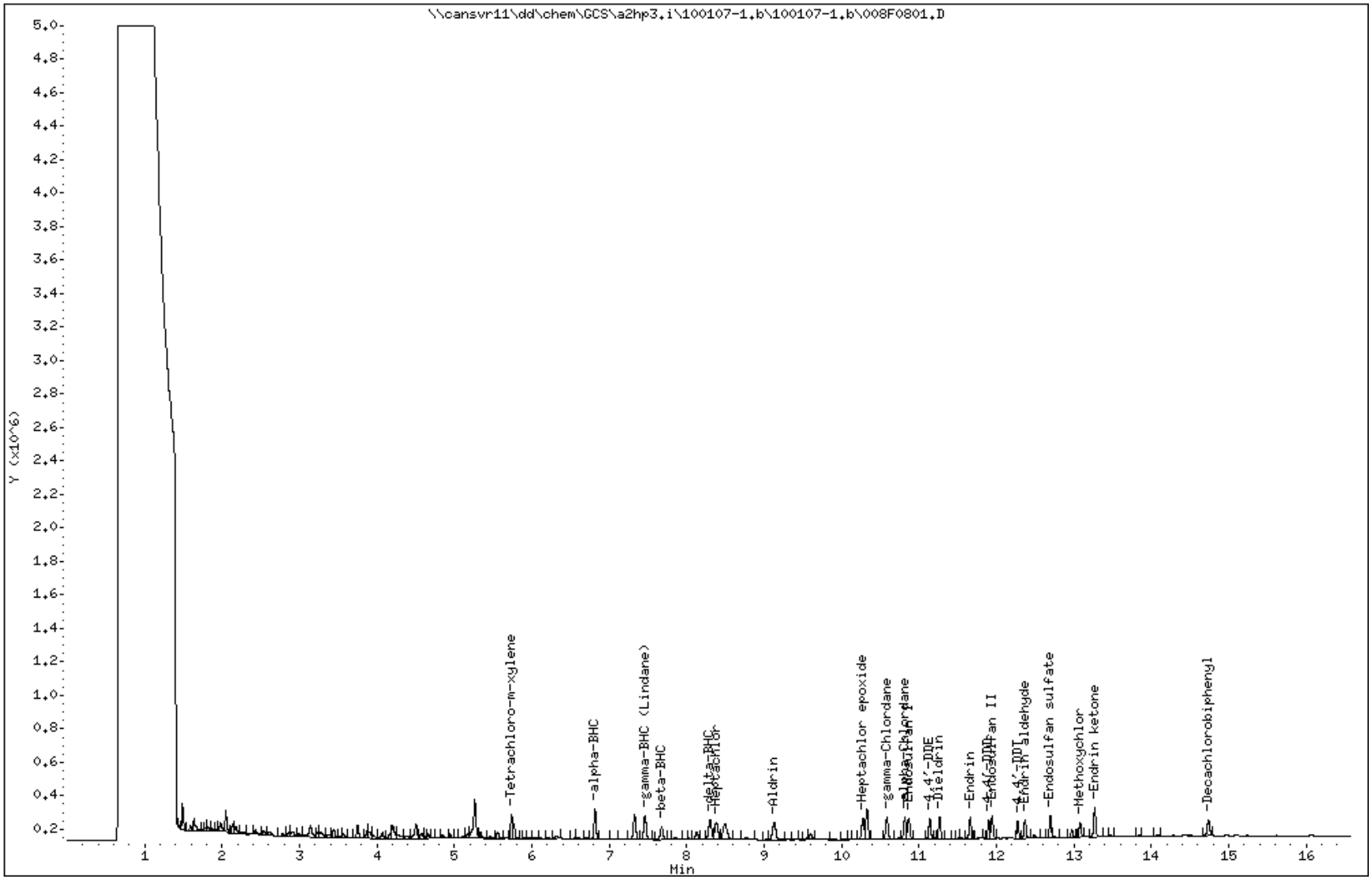
Sample Info: AB 0.4 Solid MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:37
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100107-1.b/100107-1.b/008F0801.D
Lab Sample ID: AB 0.4 Solid MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	5.737	261516	0.003	0.033 ug/Kg
4)	alpha-BHC	6.815	323450	0.002	0.830 ug/Kg
5)	gamma-BHC (Lindane)	7.459	318737	0.003	0.925 ug/Kg
6)	beta-BHC	7.675	190932	0.004	1.235 ug/Kg
7)	delta-BHC	8.299	306721	0.003	0.929 ug/Kg
8)	Heptachlor	8.382	308475	0.003	1.081 ug/Kg
10)	Aldrin	9.128	327504	0.003	1.055 ug/Kg
12)	Heptachlor epoxide	10.274	281301	0.003	1.027 ug/Kg
13)	gamma-Chlordane	10.585	281306	0.003	1.000 ug/Kg
14)	alpha-Chlordane	10.815	274438	0.003	1.029 ug/Kg
15)	Endosulfan I	10.867	261712	0.003	1.103 ug/Kg
16)	4,4'-DDE	11.138	235524	0.003	0.970 ug/Kg
17)	Dieldrin	11.264	258581	0.003	1.029 ug/Kg
20)	Endrin	11.659	243142	0.004	1.189 ug/Kg
22)	4,4'-DDD	11.898	189058	0.003	1.056 ug/Kg
23)	Endosulfan II	11.942	244661	0.003	1.140 ug/Kg
24)	4,4'-DDT	12.273	178127	0.003	1.081 ug/Kg
25)	Endrin aldehyde	12.368	208760	0.004	1.186 ug/Kg
26)	Endosulfan sulfate	12.693	229634	0.004	1.409 ug/Kg
28)	Methoxychlor	13.078	158215	0.005	1.707 ug/Kg
29)	Endrin ketone	13.267	339790	0.005	1.792 ug/Kg
30)	Decachlorobiphenyl	14.735	207431	0.004	0.042 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\100107-1.b\009F0901.D
Lab Smp Id: AB 0.2 Solid MDL
Inj Date : 07-JAN-2010 13:02
Operator : 093905 Inst ID: a2hp3.i
Smp Info : AB 0.2 Solid MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m\pest3r.m
Meth Date : 11-Jan-2010 10:00 vandorenc Quant Type: ESTD
Cal Date : 18-DEC-2009 13:54 Cal File: 013F1301.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.737	5.733	0.004	203696	0.00253	0.02532		
4 alpha-BHC						CAS #: 319-84-6	
6.815	6.813	0.002	96613	0.00136	0.4547		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.458	7.457	0.001	82264	0.00158	0.5251		
6 beta-BHC						CAS #: 319-85-7	
7.675	7.672	0.003	51316	0.00254	0.8462		
7 delta-BHC						CAS #: 319-86-8	
8.299	8.297	0.002	63523	0.00154	0.5128		
8 Heptachlor						CAS #: 76-44-8	
8.382	8.378	0.004	174883	0.00184	0.6129		

```
   10 Aldrin                                      CAS #: 309-00-2
9.126    9.126    0.000          185723 0.00180   0.5984
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```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
10.272	10.272	0.000	73327	0.00178	0.5924		
13 gamma-Chlordane						CAS #: 5103-74-2	
10.583	10.582	0.001	73853	0.00172	0.5723		
14 alpha-Chlordane						CAS #: 5103-71-9	
10.814	10.812	0.002	76316	0.00178	0.5950		
16 4,4'-DDE						CAS #: 72-55-9	
11.137	11.136	0.001	68587	0.00161	0.5363		
15 Endosulfan I						CAS #: 959-98-8	
10.865	10.864	0.001	157575	0.00199	0.6640		
17 Dieldrin						CAS #: 60-57-1	
11.262	11.262	0.000	143283	0.00171	0.5703		
20 Endrin						CAS #: 72-20-8	
11.658	11.657	0.001	135291	0.00199	0.6617		
22 4,4'-DDD						CAS #: 72-54-8	
11.897	11.896	0.001	59322	0.00172	0.5726		
23 Endosulfan II						CAS #: 33213-65-9	
11.942	11.940	0.002	75297	0.00196	0.6518		
24 4,4'-DDT						CAS #: 50-29-3	
12.271	12.270	0.001	62937	0.00191	0.6354		
25 Endrin aldehyde						CAS #: 7421-93-4	
12.367	12.366	0.001	63947	0.00201	0.6713		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.692	12.691	0.001	79227	0.00256	0.8519		
28 Methoxychlor						CAS #: 72-43-5	
13.079	13.073	0.006	55173	0.00322	1.073		
29 Endrin ketone						CAS #: 53494-70-5	
13.265	13.267	-0.002	110893	0.00343	1.144		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.735	14.733	0.002	52747	0.00236	0.02364		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\100107-1.b\009F0901.D

Date : 07-JAN-2010 13:02

Client ID:

Instrument: a2hp3.i

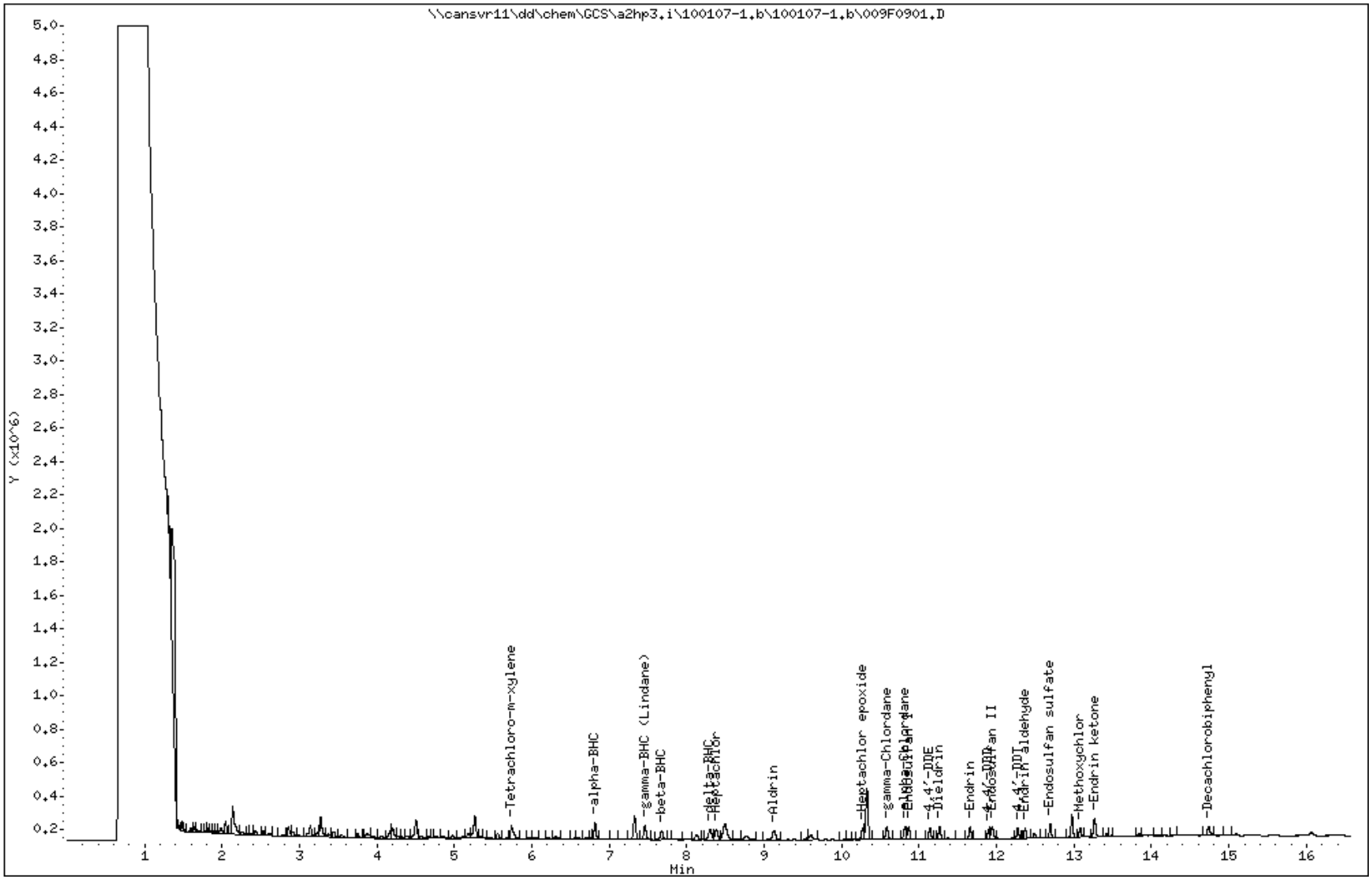
Sample Info: AB 0.2 Solid MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:02
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100107-1.b/100107-1.b/009F0901.D
Lab Sample ID: AB 0.2 Solid MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	5.737	203696	0.003	0.025 ug/Kg
4)	alpha-BHC	6.815	179844	0.001	0.455 ug/Kg
5)	gamma-BHC (Lindane)	7.459	178773	0.002	0.525 ug/Kg
6)	beta-BHC	7.675	138573	0.003	0.846 ug/Kg
7)	delta-BHC	8.300	180824	0.002	0.513 ug/Kg
8)	Heptachlor	8.382	174883	0.002	0.613 ug/Kg
10)	Aldrin	9.126	185723	0.002	0.598 ug/Kg
12)	Heptachlor epoxide	10.273	154705	0.002	0.592 ug/Kg
13)	gamma-Chlordane	10.584	162783	0.002	0.572 ug/Kg
14)	alpha-Chlordane	10.815	158988	0.002	0.595 ug/Kg
15)	Endosulfan I	10.865	157575	0.002	0.664 ug/Kg
16)	4,4'-DDE	11.137	131201	0.002	0.536 ug/Kg
17)	Dieldrin	11.263	143283	0.002	0.570 ug/Kg
20)	Endrin	11.659	135291	0.002	0.662 ug/Kg
22)	4,4'-DDD	11.897	102591	0.002	0.573 ug/Kg
23)	Endosulfan II	11.942	149851	0.002	0.652 ug/Kg
24)	4,4'-DDT	12.271	104947	0.002	0.635 ug/Kg
25)	Endrin aldehyde	12.367	119024	0.002	0.671 ug/Kg
26)	Endosulfan sulfate	12.693	139563	0.003	0.852 ug/Kg
28)	Methoxychlor	13.080	101062	0.003	1.073 ug/Kg
29)	Endrin ketone	13.265	243280	0.003	1.144 ug/Kg
30)	Decachlorobiphenyl	14.735	120882	0.002	0.024 ug/Kg

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PESTICIDES 8081/608

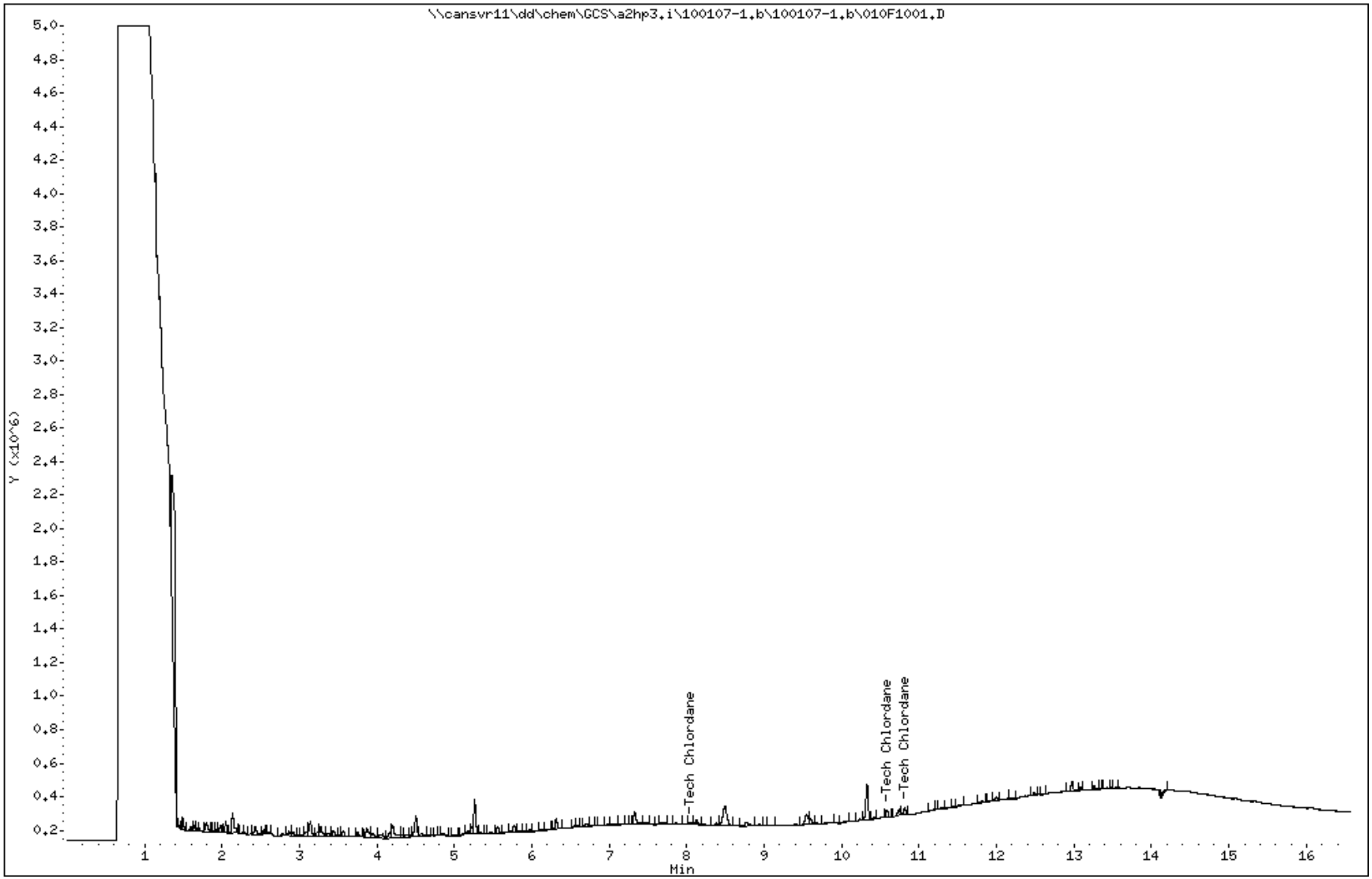
Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\100107-1.b\010F1001.D
Lab Smp Id: TC SOLID MDL
Inj Date : 07-JAN-2010 13:26
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TC SOLID MDL
Misc Info : TECHLOR SOLID MDL VERIFICATION tv = 5ug-kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m\pest3r.m
Meth Date : 11-Jan-2010 10:00 vandorenc Quant Type: ESTD
Cal Date : 18-DEC-2009 13:54 Cal File: 013F1301.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 15-TECHLOR.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE		RATIO
9 Tech Chlordane					CAS #: 57-74-9			
8.048	8.046	0.002	13639	0.01171	3.902	0.00-	20.00	100.00
9.532	9.532	0.000	0	0.0000	0.0000	0.00-	20.00	0.00
10.585	10.581	0.004	46473	0.01081	3.603	0.00-	20.00	340.74
10.814	10.812	0.002	36517	0.01011	3.368	0.00-	20.00	267.74
Average of Peak Concentrations =					3.625			

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\100107-1.b\010F1001.D Page 1
Date : 07-JAN-2010 13:26
Client ID:
Instrument: a2hp3.i
Sample Info: TC SOLID MDL
Volume Injected (uL): 1.0
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:26
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100107-1.b/100107-1.b/010F1001.D
Lab Sample ID: TC SOLID MDL
Misc. Info: TECHLOR SOLID MDL VERIFICATION tv = 5ug-kg
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
9) Tech Chlordane	8.049	33967	0.012	3.902 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\100107-1.b\012F1201.D
Lab Smp Id: MDL SOLID BLK
Inj Date : 07-JAN-2010 14:16
Operator : 093905 Inst ID: a2hp3.i
Smp Info : MDL SOLID BLK
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m\pest3r.m
Meth Date : 11-Jan-2010 10:00 vandorenc Quant Type: ESTD
Cal Date : 18-DEC-2009 13:54 Cal File: 013F1301.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Peaks not detected for Quant. or Qual. signal(s).							
27 Mirex					CAS #: 2385-85-5		
Peaks not detected for Quant. or Qual. signal(s).							
3 Hexachlorobenzene					CAS #: 118-74-1		
6.548	6.562	-0.014	16261	2e-004	0.05315		
Average of Peak Concentrations = 0.05315							
2 Diallate					CAS #: 2303-16-4		
6.548	6.557	-0.009	16261	0.00572	1.906	0.00- 20.00	100.00
6.707	6.727	-0.020	37575	0.08319	27.73	0.00- 20.00	231.07

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

21 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

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4 alpha-BHC CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

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16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

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15 Endosulfan I CAS #: 959-98-8

10.860	10.864	-0.004	8375	1e-004	0.03529		

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5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

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6 beta-BHC CAS #: 319-85-7

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

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14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

20 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

23 Endosulfan II CAS #: 33213-65-9

11.962	11.940	0.022	6579	2e-004	0.05695	

---

19 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

12.693	12.691	0.002	4555	1e-004	0.04898	

```
   28 Methoxychlor                                CAS #: 72-43-5
13.087  13.073    0.014           24122 0.00141   0.4690
--------------------------------------------------------------------------------
   29 Endrin ketone                               CAS #: 53494-70-5
13.256  13.267   -0.011           54026 0.00167   0.5573
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\100107-1.b\012F1201.D

Date : 07-JAN-2010 14:16

Client ID:

Instrument: a2hp3.i

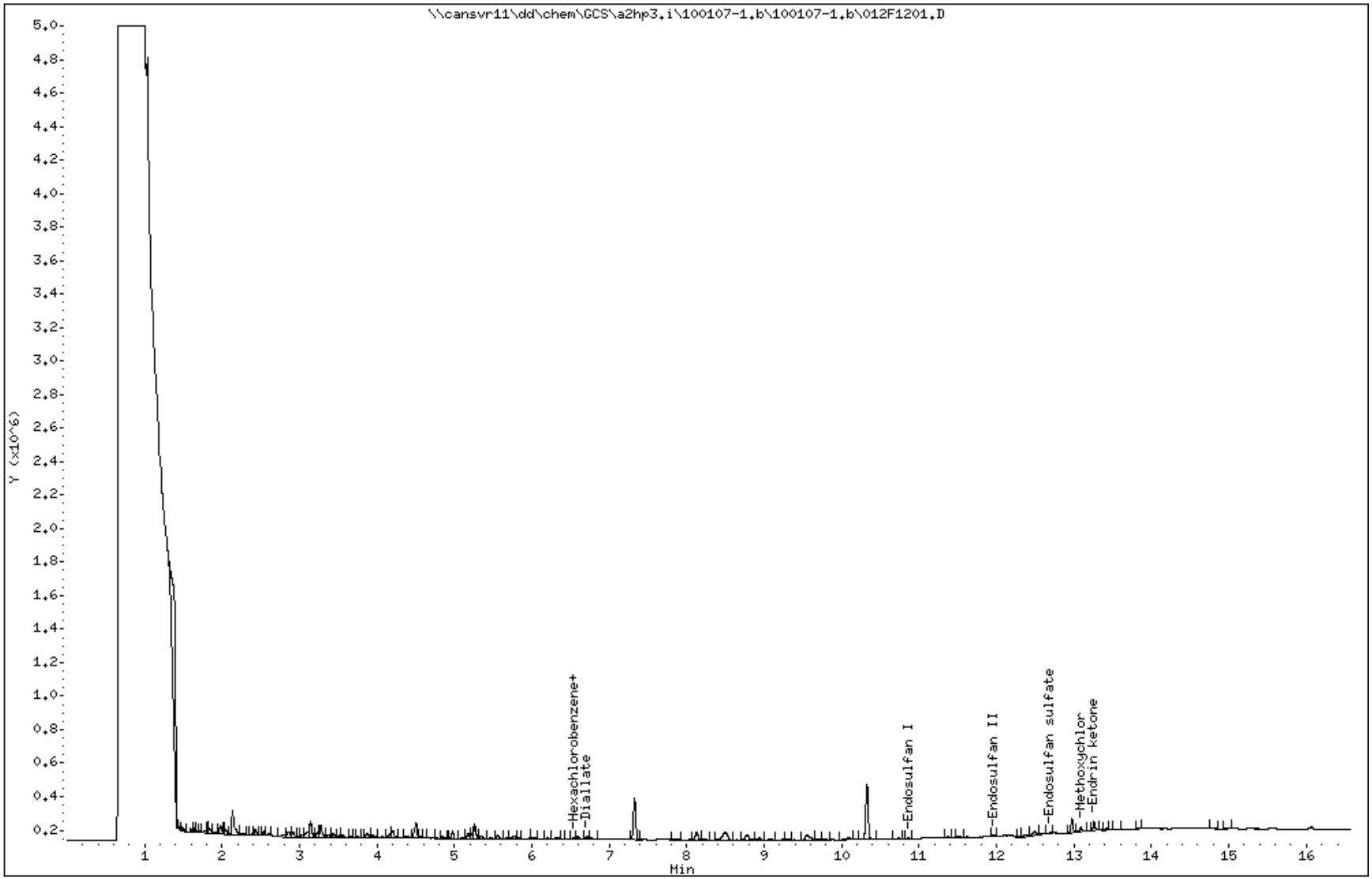
Sample Info: MDL SOLID BLK

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 14:16
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100107-1.b/100107-1.b/012F1201.D
Lab Sample ID: MDL SOLID BLK
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100107-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 5.734		
2) Diallate	6.548	16261	0.006	1.907 ug/Kg
3) Hexachlorobenzene	6.548	16261	0.000	0.053 ug/Kg
4) alpha-BHC	NOT DETECTED	Expected RT = 6.814		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 7.458		
6) beta-BHC	NOT DETECTED	Expected RT = 7.672		
9) Tech Chlordane	NOT DETECTED	Expected RT = 8.046		
7) delta-BHC	NOT DETECTED	Expected RT = 8.298		
8) Heptachlor	NOT DETECTED	Expected RT = 8.379		
10) Aldrin	NOT DETECTED	Expected RT = 9.126		
11) Isodrin	NOT DETECTED	Expected RT = 9.943		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 10.272		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 10.583		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 10.813		
15) Endosulfan I	10.861	8375	0.000	0.035 ug/Kg
16) 4,4'-DDE	NOT DETECTED	Expected RT = 11.136		
17) Dieldrin	NOT DETECTED	Expected RT = 11.263		
20) Endrin	NOT DETECTED	Expected RT = 11.658		
18) Chlorobenzilate	NOT DETECTED	Expected RT = 11.782		
21) Kepone	NOT DETECTED	Expected RT = 11.813		
22) 4,4'-DDD	NOT DETECTED	Expected RT = 11.896		
23) Endosulfan II	11.963	12369	0.000	0.057 ug/Kg
19) Toxaphene	NOT DETECTED	Expected RT = 12.054		
24) 4,4'-DDT	NOT DETECTED	Expected RT = 12.270		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 12.366		
26) Endosulfan sulfate	12.693	9524	0.000	0.049 ug/Kg
27) Mirex	NOT DETECTED	Expected RT = 13.073		
28) Methoxychlor	13.088	56206	0.001	0.469 ug/Kg
29) Endrin ketone	13.257	99394	0.002	0.557 ug/Kg
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.734		

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\100115-1.b\007F0701.D
Lab Smp Id: TOX SOLID MDL
Inj Date : 15-JAN-2010 17:10
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX SOLID MDL
Misc Info : TOX SOLID MDL VERIFICATION tv = 20 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\PEST3.m\pest3r.m
Meth Date : 18-Jan-2010 08:38 vandorenc Quant Type: ESTD
Cal Date : 12-JAN-2010 00:46 Cal File: 026F2601.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
19 Toxaphene					CAS #: 8001-35-2		
12.050	12.051	-0.001	87500	0.04961	16.54	80.00- 120.00	100.00
12.140	12.141	-0.001	44685	0.05247	17.49	114.04- 154.04	51.07
12.373	12.373	0.000	90573	0.04879	16.26	115.64- 155.64	103.51
12.953	12.949	0.004	96149	0.05884	19.61	52.78- 92.78	109.88
13.249	13.235	0.014	73941	0.08729	29.10	69.36- 109.36	84.50
		Average of Peak Concentrations =			19.80		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\100115-1.b\007F0701.D

Date : 15-JAN-2010 17:10

Client ID:

Instrument: a2hp3.i

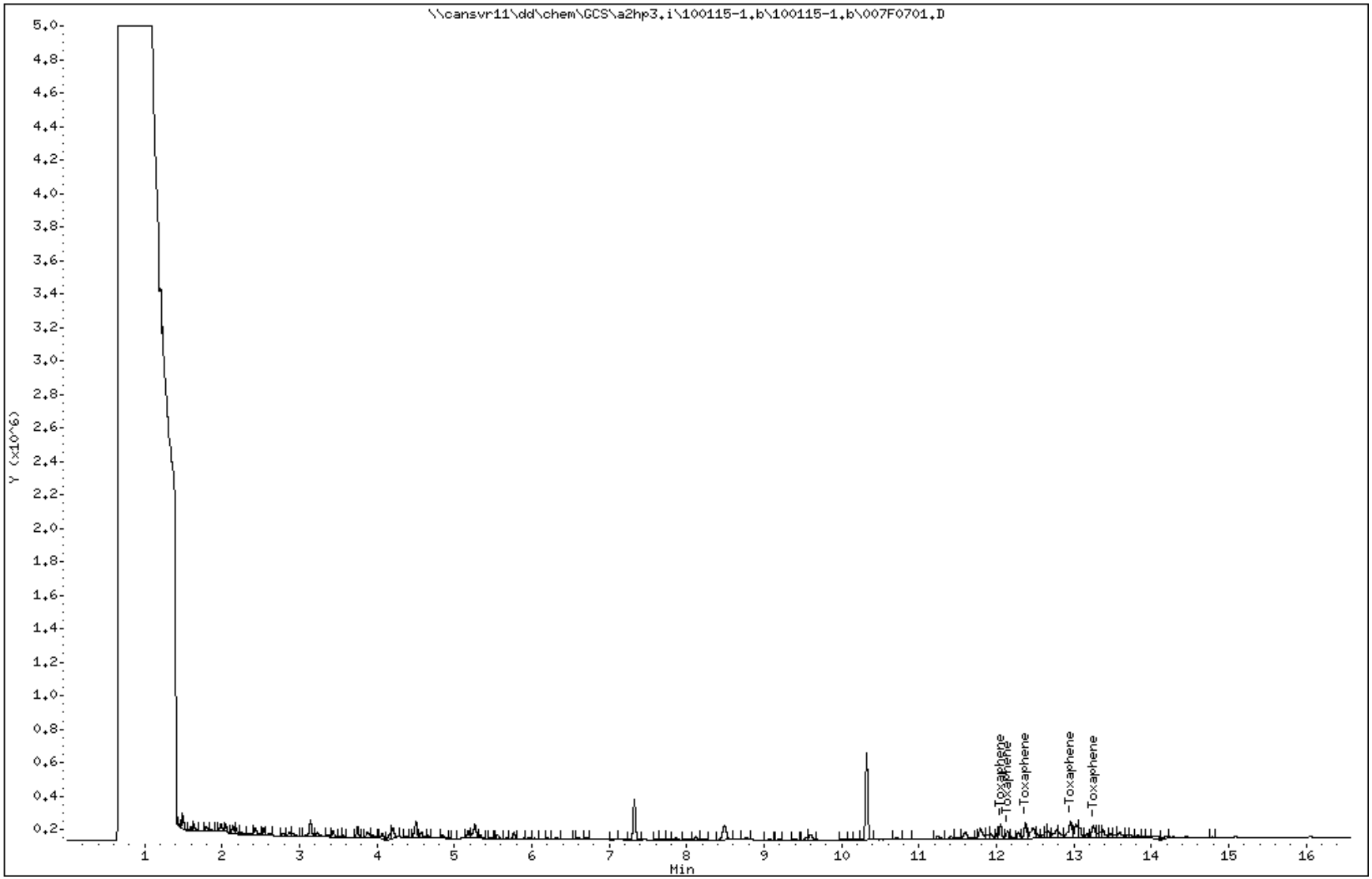
Sample Info: TOX SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-JAN-2010 17:10
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100115-1.b/100115-1.b/007F0701.D
Lab Sample ID: TOX SOLID MDL
Misc. Info: TOX SOLID MDL VERIFICATION tv = 20 ug/kg
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
19) Toxaphene	12.051	189068	0.050	16.538 ug/Kg

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\100115-1.b\008F0801.D
Lab Smp Id: TOX MDL BLK
Inj Date : 15-JAN-2010 17:35
Operator : 093905 Inst ID: a2hp3.i
Smp Info : TOX MDL BLK
Misc Info : TOX SOLID MDL VERIFICATION BLANK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\PEST3.m\pest3r.m
Meth Date : 18-Jan-2010 08:38 vandorenc Quant Type: ESTD
Cal Date : 12-JAN-2010 00:46 Cal File: 026F2601.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.722	5.733	-0.011	31124	4e-004	0.003678		
27 Mirex						CAS #: 2385-85-5	
13.083	13.072	0.011	59480				
3 Hexachlorobenzene						CAS #: 118-74-1	
6.554	6.539	0.015	9728	9.e-005	0.02999		
		Average of Peak Concentrations =			0.02999		
2 Diallate						CAS #: 2303-16-4	
6.554	6.536	0.018	9728	0.00343	1.142	0.00- 20.00	100.00
6.712	6.705	0.007	103369	0.23073	76.91	0.00- 20.00	1062.53
11 Isodrin						CAS #: 465-73-6	
9.883	9.909	-0.026	3574	8e-005	0.02709		
21 Kepone						CAS #: 143-50-0	

```
11.791  11.785    0.006           23910 0.07503    25.01
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

18 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

4 alpha-BHC CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

---

16 4,4'-DDE CAS #: 72-55-9

11.128	11.134	-0.006	32842	4e-004	0.1256		

---

15 Endosulfan I CAS #: 959-98-8

10.858	10.862	-0.004	13808	2e-004	0.05281		

---

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 beta-BHC CAS #: 319-85-7

7.679	7.671	0.008	9761	5e-004	0.1507		

---

7 delta-BHC CAS #: 319-86-8

8.309	8.295	0.014	6387	1e-004	0.04753		

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

20 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

23 Endosulfan II CAS #: 33213-65-9

11.959	11.937	0.022	11269	3e-004	0.08488		

---

19 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

12.270	12.267	0.003	12877	2e-004	0.06414		

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

12.694	12.688	0.006	5557	1e-004	0.04529		

---

28 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

13.253	13.263	-0.010	72171	0.00145	0.4836		

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\100115-1.b\008F0801.D

Date : 15-JAN-2010 17:35

Client ID:

Instrument: a2hp3.i

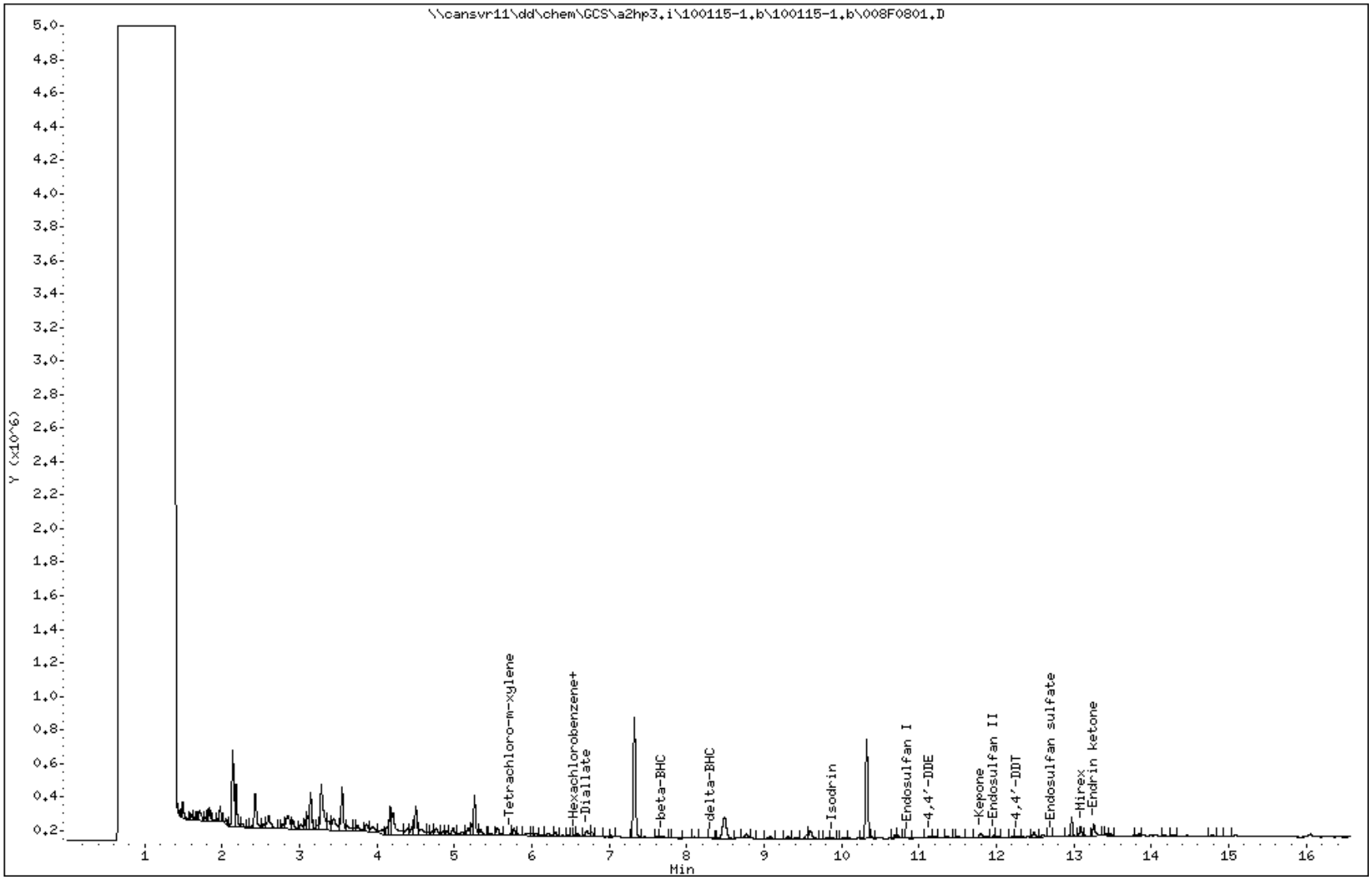
Sample Info: TOX MDL BLK

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-JAN-2010 17:35
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100115-1.b/100115-1.b/008F0801.D
Lab Sample ID: TOX MDL BLK
Misc. Info: TOX SOLID MDL VERIFICATION BLANK
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100115-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	5.722	31124	0.000	0.004 ug/Kg
2)	Diallate	6.555	9728	0.003	1.142 ug/Kg
3)	Hexachlorobenzene	6.555	9728	0.000	0.030 ug/Kg
4)	alpha-BHC	NOT DETECTED	Expected RT = 6.813		
5)	gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 7.457		
6)	beta-BHC	7.680	31924	0.000	0.151 ug/Kg
9)	Tech Chlordane	NOT DETECTED	Expected RT = 8.044		
7)	delta-BHC	8.310	15153	0.000	0.048 ug/Kg
8)	Heptachlor	NOT DETECTED	Expected RT = 8.376		
10)	Aldrin	NOT DETECTED	Expected RT = 9.124		
11)	Isodrin	9.883	8286	0.000	0.027 ug/Kg
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 10.270		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 10.581		
14)	alpha-Chlordane	NOT DETECTED	Expected RT = 10.811		
15)	Endosulfan I	10.858	13808	0.000	0.053 ug/Kg
16)	4,4'-DDE	11.128	32842	0.000	0.126 ug/Kg
17)	Dieldrin	NOT DETECTED	Expected RT = 11.260		
20)	Endrin	NOT DETECTED	Expected RT = 11.655		
18)	Chlorobenzilate	NOT DETECTED	Expected RT = 11.760		
21)	Kepone	11.792	93170	0.075	25.011 ug/Kg
22)	4,4'-DDD	NOT DETECTED	Expected RT = 11.894		
23)	Endosulfan II	11.959	23961	0.000	0.085 ug/Kg
19)	Toxaphene	NOT DETECTED	Expected RT = 12.052		
24)	4,4'-DDT	12.271	12877	0.000	0.064 ug/Kg
25)	Endrin aldehyde	NOT DETECTED	Expected RT = 12.363		
26)	Endosulfan sulfate	12.695	8735	0.000	0.045 ug/Kg
28)	Methoxychlor	NOT DETECTED	Expected RT = 13.071		
27)	Mirex	13.083	105740	0.000	0.000 ug/Kg
29)	Endrin ketone	13.253	150594	0.001	0.484 ug/Kg
30)	Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.729		

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RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FH1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B230000-022
Prep Date.....: 02/23/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0054022
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
gamma-BHC (Lindane)	**95**	**(60 - 125)**	**SW846 8081A**
Heptachlor	**86**	**(50 - 140)**	**SW846 8081A**
Aldrin	**92**	**(45 - 140)**	**SW846 8081A**
Dieldrin	**95**	**(65 - 125)**	**SW846 8081A**
Endrin	**100**	**(60 - 135)**	**SW846 8081A**
4,4'-DDT	**83**	**(45 - 140)**	**SW846 8081A**
alpha-BHC	**95**	**(60 - 125)**	**SW846 8081A**
beta-BHC	**95**	**(60 - 125)**	**SW846 8081A**
delta-BHC	**101**	**(55 - 130)**	**SW846 8081A**
Heptachlor epoxide	**96**	**(65 - 130)**	**SW846 8081A**
Endosulfan I	**80**	**(15 - 135)**	**SW846 8081A**
4,4'-DDE	**97**	**(70 - 125)**	**SW846 8081A**
Endosulfan II	**90**	**(35 - 140)**	**SW846 8081A**
4,4'-DDD	**117**	**(30 - 135)**	**SW846 8081A**
Endosulfan sulfate	**104**	**(60 - 135)**	**SW846 8081A**
Methoxychlor	**100**	**(55 - 145)**	**SW846 8081A**
Endrin ketone	**99**	**(65 - 135)**	**SW846 8081A**
Endrin aldehyde	**85**	**(35 - 145)**	**SW846 8081A**
alpha-Chlordane	**92**	**(65 - 120)**	**SW846 8081A**
gamma-Chlordane	**93**	**(65 - 125)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	90	(70 - 125)
Decachlorobiphenyl	102	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FH1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B230000-022
Prep Date.....: 02/23/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0054022
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
gamma-BHC (Lindane)	**33**	**32**	**ug/kg**	**95**	**SW846 8081A**
Heptachlor	**33**	**29**	**ug/kg**	**86**	**SW846 8081A**
Aldrin	**33**	**30**	**ug/kg**	**92**	**SW846 8081A**
Dieldrin	**33**	**32**	**ug/kg**	**95**	**SW846 8081A**
Endrin	**33**	**33**	**ug/kg**	**100**	**SW846 8081A**
4,4'-DDT	**33**	**28**	**ug/kg**	**83**	**SW846 8081A**
alpha-BHC	**33**	**32**	**ug/kg**	**95**	**SW846 8081A**
beta-BHC	**33**	**32**	**ug/kg**	**95**	**SW846 8081A**
delta-BHC	**33**	**34**	**ug/kg**	**101**	**SW846 8081A**
Heptachlor epoxide	**33**	**32**	**ug/kg**	**96**	**SW846 8081A**
Endosulfan I	**33**	**27**	**ug/kg**	**80**	**SW846 8081A**
4,4'-DDE	**33**	**32**	**ug/kg**	**97**	**SW846 8081A**
Endosulfan II	**33**	**30**	**ug/kg**	**90**	**SW846 8081A**
4,4'-DDD	**33**	**39**	**ug/kg**	**117**	**SW846 8081A**
Endosulfan sulfate	**33**	**35**	**ug/kg**	**104**	**SW846 8081A**
Methoxychlor	**33**	**33**	**ug/kg**	**100**	**SW846 8081A**
Endrin ketone	**33**	**33**	**ug/kg**	**99**	**SW846 8081A**
Endrin aldehyde	**33**	**28**	**ug/kg**	**85**	**SW846 8081A**
alpha-Chlordane	**33**	**30**	**ug/kg**	**92**	**SW846 8081A**
gamma-Chlordane	**33**	**31**	**ug/kg**	**93**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	90	(70 - 125)
Decachlorobiphenyl	102	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\032F3201.D
Lab Smp Id: LV0FH1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 08-MAR-2010 23:55
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LV0FH1AC
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 09:35 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43 Cal File: 015F1501.D
Als bottle: 32 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.838	4.834	0.004	6489637	0.01687	0.1687		
4 alpha-BHC						CAS #: 319-84-6	
5.792	5.788	0.004	52887794	0.08342	27.80		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.297	6.293	0.004	47637344	0.08400	28.00		
6 beta-BHC						CAS #: 319-85-7	
6.467	6.465	0.002	18726928	0.08451	28.17		
7 delta-BHC						CAS #: 319-86-8	
6.707	6.704	0.003	89523273	0.08469	28.23		
9 Heptachlor						CAS #: 76-44-8	
7.022	7.016	0.006	126373742	0.11564	38.55		

```
   10 Aldrin                                      CAS #: 309-00-2
7.509    7.506    0.003        33013214 0.08266    27.55
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
8.841	8.837	0.004	78662609	0.08442	28.14		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.118	9.114	0.004	26841534	0.08481	28.27		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.398	9.397	0.001	23344634	0.07222	24.07		
16 4,4'-DDE					CAS #: 72-55-9		
9.698	9.697	0.001	66905680	0.07450	24.83		
15 Endosulfan I					CAS #: 959-98-8		
9.612	9.609	0.003	50973687	0.06197	20.66		
17 Dieldrin					CAS #: 60-57-1		
10.050	10.047	0.003	30357493	0.08649	28.83		
20 Endrin					CAS #: 72-20-8		
10.399	10.398	0.001	68910437	0.08929	29.76		
22 4,4'-DDD					CAS #: 72-54-8		
10.666	10.664	0.002	59631261	0.09710	32.37		
23 Endosulfan II					CAS #: 33213-65-9		
10.742	10.740	0.002	25316233	0.08342	27.81		
24 4,4'-DDT					CAS #: 50-29-3		
11.060	11.058	0.002	46488923	0.07575	25.25		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.347	11.345	0.002	39979075	0.07803	26.01		
27 Methoxychlor					CAS #: 72-43-5		
11.768	11.767	0.001	20456561	0.07950	26.50		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.901	11.898	0.003	27072296	0.09593	31.98		
29 Endrin ketone					CAS #: 53494-70-5		
12.212	12.210	0.002	53140516	0.08652	28.84		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.421	13.420	0.001	5028838	0.02109	0.2109		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\032F3201.D

Date : 08-MAR-2010 23:55

Client ID: INTRA-LAB CHECK

Instrument: a2hp3.i

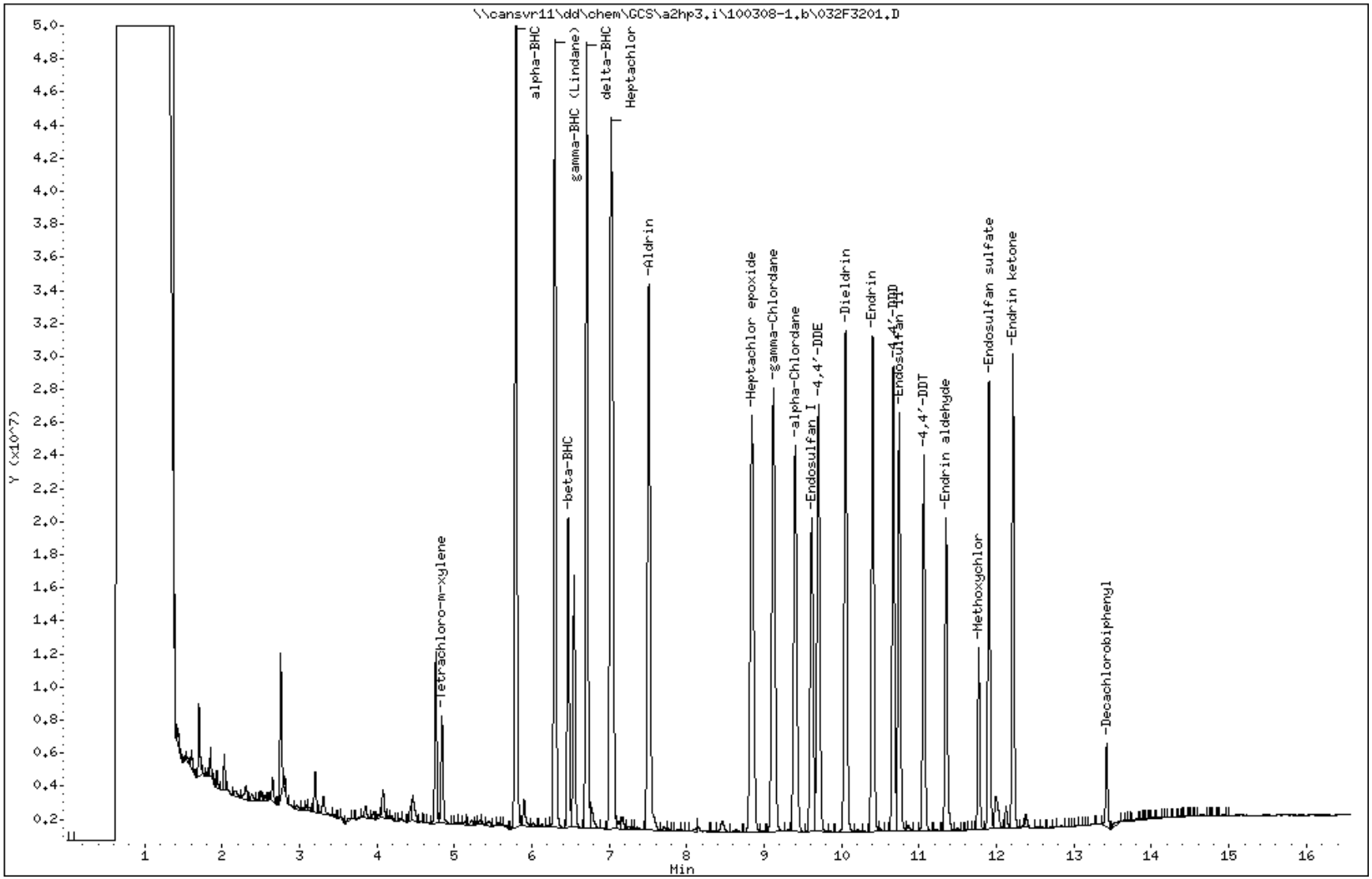
Sample Info: LV0FH1AC

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 23:55
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/032F3201.D
Lab Sample ID: LV0FH1AC
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.839	12485348	0.017	0.169 ug/Kg
4) alpha-BHC	5.793	100045635	0.083	27.805 ug/Kg
5) gamma-BHC (Lindane)	6.297	89687956	0.084	27.999 ug/Kg
6) beta-BHC	6.467	34865618	0.085	28.171 ug/Kg
7) delta-BHC	6.707	89523273	0.085	28.230 ug/Kg
9) Heptachlor	7.023	126373742	0.116	38.547 ug/Kg
10) Aldrin	7.510	83353438	0.083	27.553 ug/Kg
12) Heptachlor epoxide	8.841	78662609	0.084	28.139 ug/Kg
13) gamma-Chlordane	9.119	80664643	0.085	28.270 ug/Kg
14) alpha-Chlordane	9.399	66391275	0.072	24.073 ug/Kg
15) Endosulfan I	9.612	50973687	0.062	20.658 ug/Kg
16) 4,4'-DDE	9.699	66905680	0.075	24.834 ug/Kg
17) Dieldrin	10.050	74873616	0.086	28.830 ug/Kg
20) Endrin	10.400	68910437	0.089	29.764 ug/Kg
22) 4,4'-DDD	10.666	59631261	0.097	32.367 ug/Kg
23) Endosulfan II	10.742	56273738	0.083	27.808 ug/Kg
24) 4,4'-DDT	11.060	46488923	0.076	25.250 ug/Kg
26) Endrin aldehyde	11.348	39979075	0.078	26.010 ug/Kg
27) Methoxychlor	11.769	20456561	0.080	26.500 ug/Kg
28) Endosulfan sulfate	11.901	52300937	0.096	31.977 ug/Kg
29) Endrin ketone	12.212	53140516	0.087	28.841 ug/Kg
30) Decachlorobiphenyl	13.421	9598311	0.021	0.211 ug/Kg

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\032F3201.D
Lab Smp Id: LV0FH1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 08-MAR-2010 23:55
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LV0FH1AC
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 09:37 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 32 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.695	5.692	0.003	1783299	0.01802	0.1802		
4 alpha-BHC						CAS #: 319-84-6	
6.771	6.769	0.002	8530342	0.09495	31.65		
16 4,4'-DDE						CAS #: 72-55-9	
11.092	11.092	0.000	9490372	0.09723	32.41		
15 Endosulfan I						CAS #: 959-98-8	
10.816	10.814	0.002	8435995	0.08002	26.67		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.406	7.403	0.003	6412785	0.09491	31.64		
6 beta-BHC						CAS #: 319-85-7	
7.618	7.617	0.001	2364314	0.09462	31.54		

```
    7 delta-BHC                                   CAS #: 319-86-8
8.232    8.231    0.001        13534740 0.10132    33.77
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
8 Heptachlor					CAS #: 76-44-8		
8.309	8.307	0.002	12105753	0.08615	28.72		
10 Aldrin					CAS #: 309-00-2		
9.059	9.057	0.002	11915815	0.09144	30.48		
12 Heptachlor epoxide					CAS #: 1024-57-3		
10.218	10.217	0.001	4903660	0.09547	31.82		
13 gamma-Chlordane					CAS #: 5103-74-2		
10.533	10.531	0.002	4942364	0.09250	30.83		
14 alpha-Chlordane					CAS #: 5103-71-9		
10.766	10.763	0.003	4903033	0.09143	30.48		
17 Dieldrin					CAS #: 60-57-1		
11.217	11.215	0.002	10304757	0.09518	31.72		
20 Endrin					CAS #: 72-20-8		
11.613	11.611	0.002	5186612	0.09987	33.29		
22 4,4'-DDD					CAS #: 72-54-8		
11.857	11.856	0.001	8136769	0.11728	39.09		
23 Endosulfan II					CAS #: 33213-65-9		
11.897	11.896	0.001	4409374	0.08997	29.99		
24 4,4'-DDT					CAS #: 50-29-3		
12.231	12.231	0.000	5907199	0.08249	27.50		
25 Endrin aldehyde					CAS #: 7421-93-4		
12.325	12.324	0.001	3135109	0.08502	28.34		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.652	12.651	0.001	4484314	0.10425	34.75		
28 Methoxychlor					CAS #: 72-43-5		
13.038	13.037	0.001	1879544	0.10018	33.39		
29 Endrin ketone					CAS #: 53494-70-5		
13.228	13.227	0.001	4999524	0.09850	32.83		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.688	14.687	0.001	549563	0.02039	0.2039		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\032F3201.D

Date : 08-MAR-2010 23:55

Client ID: INTRA-LAB CHECK

Instrument: a2hp3.i

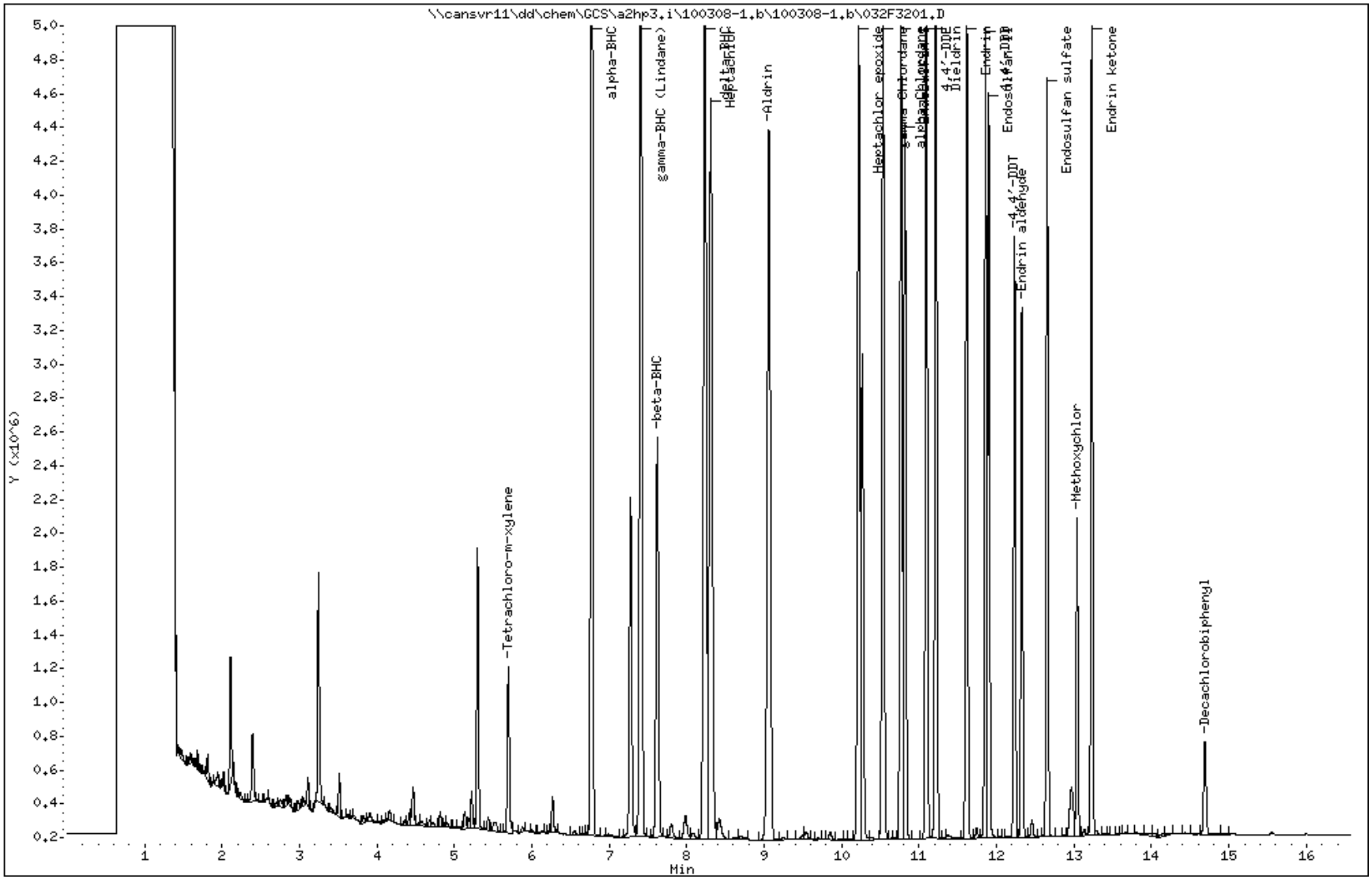
Sample Info: LV0FH1AC

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 23:55
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/032F3201.D
Lab Sample ID: LV0FH1AC
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.695	1783299	0.018	0.180 ug/Kg
4) alpha-BHC	6.771	14889515	0.095	31.650 ug/Kg
5) gamma-BHC (Lindane)	7.406	13361641	0.095	31.635 ug/Kg
6) beta-BHC	7.619	5246080	0.095	31.539 ug/Kg
7) delta-BHC	8.233	13534740	0.101	33.772 ug/Kg
8) Heptachlor	8.310	12105753	0.086	28.718 ug/Kg
10) Aldrin	9.060	11915815	0.091	30.479 ug/Kg
12) Heptachlor epoxide	10.219	10669691	0.095	31.824 ug/Kg
13) gamma-Chlordane	10.534	10161857	0.093	30.834 ug/Kg
14) alpha-Chlordane	10.766	9910813	0.091	30.476 ug/Kg
15) Endosulfan I	10.816	8435995	0.080	26.673 ug/Kg
16) 4,4'-DDE	11.093	9490372	0.097	32.411 ug/Kg
17) Dieldrin	11.217	10304757	0.095	31.725 ug/Kg
20) Endrin	11.614	9335627	0.100	33.290 ug/Kg
22) 4,4'-DDD	11.857	8136769	0.117	39.095 ug/Kg
23) Endosulfan II	11.898	7768441	0.090	29.990 ug/Kg
24) 4,4'-DDT	12.231	5907199	0.082	27.497 ug/Kg
25) Endrin aldehyde	12.325	5380150	0.085	28.341 ug/Kg
26) Endosulfan sulfate	12.652	7546276	0.104	34.751 ug/Kg
28) Methoxychlor	13.039	3072052	0.100	33.394 ug/Kg
29) Endrin ketone	13.229	8048090	0.098	32.833 ug/Kg
30) Decachlorobiphenyl	14.689	1250906	0.020	0.204 ug/Kg

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FH1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0B230000-022

Prep Date.....: 02/23/10 **Final Wgt/Vol..:** 10 mL
Analysis Date..: 03/08/10 **Prep Batch #...:** 0054022
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	4.0	ug/kg	SW846 8081A
alpha-BHC	ND	2.5	ug/kg	SW846 8081A
beta-BHC	ND	3.5	ug/kg	SW846 8081A
delta-BHC	ND	4.0	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	2.5	ug/kg	SW846 8081A
alpha-Chlordane	ND	3.0	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	2.0	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	2.0	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	2.5	ug/kg	SW846 8081A
Endosulfan sulfate	ND	3.0	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	3.0	ug/kg	SW846 8081A
Endrin ketone	ND	2.0	ug/kg	SW846 8081A
Heptachlor	ND	3.5	ug/kg	SW846 8081A
Heptachlor epoxide	ND	2.5	ug/kg	SW846 8081A
Methoxychlor	ND	5.0	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(70 - 125)
Decachlorobiphenyl	96	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\022F2201.D
Lab Smp Id: LV0FH1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 08-MAR-2010 19:36
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LV0FH1AA
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 09:35 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43 Cal File: 015F1501.D
Als bottle: 22 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.838	4.834	0.004	6115897	0.01590	0.1590		
25 Mirex						CAS #: 2385-85-5	
Qualifier signal(s) failed ratio test.							
3 Hexachlorobenzene						CAS #: 118-74-1	
5.564	5.569	-0.005	485837				
2 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
21 Kepone					CAS #: 143-50-0		
Peaks not detected for Quant. or Qual. signal(s).							
18 Chlorobenzilate					CAS #: 510-15-6		
10.768	10.797	-0.029	28197				
4 alpha-BHC					CAS #: 319-84-6		
5.798	5.788	0.010	33993	5e-005	0.01787		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
6.292	6.293	-0.001	27553	5e-005	0.01619		
6 beta-BHC					CAS #: 319-85-7		
6.447	6.465	-0.018	9060	4e-005	0.01363		
7 delta-BHC					CAS #: 319-86-8		
6.719	6.704	0.015	588218	6e-004	0.1855		
9 Heptachlor					CAS #: 76-44-8		
7.044	7.016	0.028	4380020	0.00401	1.336		
10 Aldrin					CAS #: 309-00-2		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
8.848	8.837	0.011	8012	9e-006	0.002866		
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
9.702	9.697	0.005	97876	1e-004	0.03633		
15 Endosulfan I					CAS #: 959-98-8		
9.627	9.609	0.018	160550	2.e-004	0.06506		

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--------------------------------------------------------------------------------
   17 Dieldrin                                      CAS #: 60-57-1
10.019  10.047   -0.028           36707 1.e-004  0.03486
--------------------------------------------------------------------------------
   20 Endrin                                        CAS #: 72-20-8
10.376  10.398   -0.022           25359  3e-005  0.01095
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
22 4,4'-DDD					CAS #: 72-54-8		

Peaks not detected for Quant. or Qual. signal(s).

---

23 Endosulfan II					CAS #: 33213-65-9		
10.715	10.740	-0.025	70975	2e-004	0.07796		

---

19 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

---

8 Tech Chlordane					CAS #: 57-74-9		

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT					CAS #: 50-29-3		
11.052	11.058	-0.006	10832	2e-005	0.005883		

---

26 Endrin aldehyde					CAS #: 7421-93-4		
11.339	11.345	-0.006	185017	4e-004	0.1204		

---

27 Methoxychlor					CAS #: 72-43-5		

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate					CAS #: 1031-07-8		
11.886	11.898	-0.012	122732	4e-004	0.1450		

---

29 Endrin ketone					CAS #: 53494-70-5		
12.204	12.210	-0.006	19755	3e-005	0.01072		

$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.421	13.420	0.001	4647224	0.01949	0.1949		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\022F2201.D

Date : 08-MAR-2010 19:36

Client ID: INTRA-LAB BLANK

Instrument: a2hp3.i

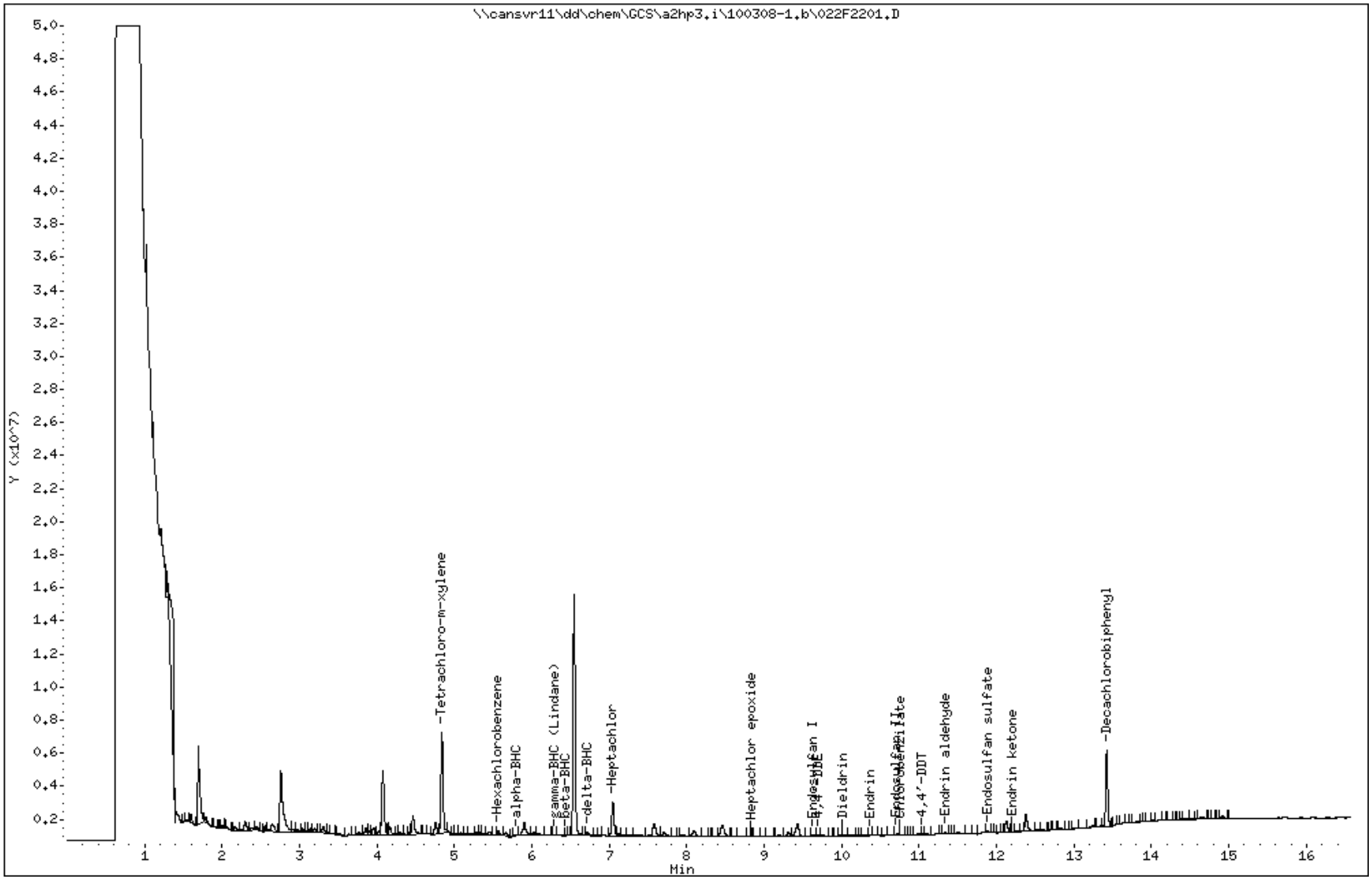
Sample Info: LV0FH1AA

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 19:36
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/022F2201.D
Lab Sample ID: LV0FH1AA
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.838	11636675	0.016	0.159 ug/Kg
3) Hexachlorobenzene	5.564	485837	0.000	0.000 ug/Kg
2) Diallate	NOT DETECTED	Expected RT = 5.698		
4) alpha-BHC	5.798	83901	0.000	0.018 ug/Kg
5) gamma-BHC (Lindane)	6.292	45290	0.000	0.016 ug/Kg
6) beta-BHC	6.447	10143	0.000	0.014 ug/Kg
7) delta-BHC	6.719	588218	0.001	0.185 ug/Kg
8) Tech Chlordane	NOT DETECTED	Expected RT = 6.899		
9) Heptachlor	7.045	4380020	0.004	1.336 ug/Kg
10) Aldrin	NOT DETECTED	Expected RT = 7.506		
11) Isodrin	NOT DETECTED	Expected RT = 8.140		
12) Heptachlor epoxide	8.848	8012	0.000	0.003 ug/Kg
13) gamma-Chlordane	NOT DETECTED	Expected RT = 9.115		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 9.397		
15) Endosulfan I	9.627	160550	0.000	0.065 ug/Kg
16) 4,4'-DDE	9.702	97876	0.000	0.036 ug/Kg
17) Dieldrin	10.020	117872	0.000	0.035 ug/Kg
20) Endrin	10.377	25359	0.000	0.011 ug/Kg
21) Kepone	NOT DETECTED	Expected RT = 10.467		
22) 4,4'-DDD	NOT DETECTED	Expected RT = 10.665		
23) Endosulfan II	10.716	204302	0.000	0.078 ug/Kg
18) Chlorobenzilate	10.768	81073	0.000	0.000 ug/Kg
19) Toxaphene	NOT DETECTED	Expected RT = 10.850		
24) 4,4'-DDT	11.052	10832	0.000	0.006 ug/Kg
26) Endrin aldehyde	11.340	185017	0.000	0.120 ug/Kg
25) Mirex	NOT DETECTED	Expected RT = 11.684		
27) Methoxychlor	NOT DETECTED	Expected RT = 11.767		
28) Endosulfan sulfate	11.887	215482	0.000	0.145 ug/Kg
29) Endrin ketone	12.204	19755	0.000	0.011 ug/Kg
30) Decachlorobiphenyl	13.422	8615959	0.019	0.195 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\022F2201.D
Lab Smp Id: LV0FH1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 08-MAR-2010 19:36
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LV0FH1AA
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 09:37 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 22 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 1	Tetrachloro-m-xylene	5.694	5.692	0.002	1587062	0.01604	0.1604
27	Mirex	Compound Not Detected.					
3	Hexachlorobenzene	6.546	6.552	-0.006	36624		
2	Diallate	6.546	6.557	-0.011	36624		
11	Isodrin	9.834	9.847	-0.013	6341		
21	Kepone	Compound Not Detected.					
18	Chlorobenzilate	Compound Not Detected.					
4	alpha-BHC	Compound Not Detected.					
16	4,4'-DDE	Compound Not Detected.					
15	Endosulfan I	10.815	10.814	0.001	27596	3e-004	0.08725
5	gamma-BHC (Lindane)	Compound Not Detected.					
6	beta-BHC	7.625	7.617	0.008	15222	6e-004	0.2030
7	delta-BHC	Compound Not Detected.					
8	Heptachlor	Compound Not Detected.					
10	Aldrin	Compound Not Detected.					
12	Heptachlor epoxide	Compound Not Detected.					
13	gamma-Chlordane	Compound Not Detected.					
14	alpha-Chlordane	Compound Not Detected.					
17	Dieldrin	Compound Not Detected.					

20	Endrin	Compound Not Detected.
22	4,4'-DDD	Compound Not Detected.

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
	23 Endosulfan II	11.925	11.896	0.029	17614	4e-004	0.1198
	19 Toxaphene	Compound Not Detected.					
	9 Tech Chlordane	Compound Not Detected.					
	24 4,4'-DDT	12.231	12.231	0.000	8267	1e-004	0.03848
	25 Endrin aldehyde	Compound Not Detected.					
	26 Endosulfan sulfate	12.663	12.651	0.012	52480	0.00122	0.4067
	28 Methoxychlor	13.053	13.037	0.016	39027	0.00208	0.6934
	29 Endrin ketone	13.219	13.227	-0.008	38469	8e-004	0.2526
$	30 Decachlorobiphenyl	14.690	14.687	0.003	520176	0.01930	0.1930

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\022F2201.D

Date : 08-MAR-2010 19:36

Client ID: INTRA-LAB BLANK

Instrument: a2hp3.i

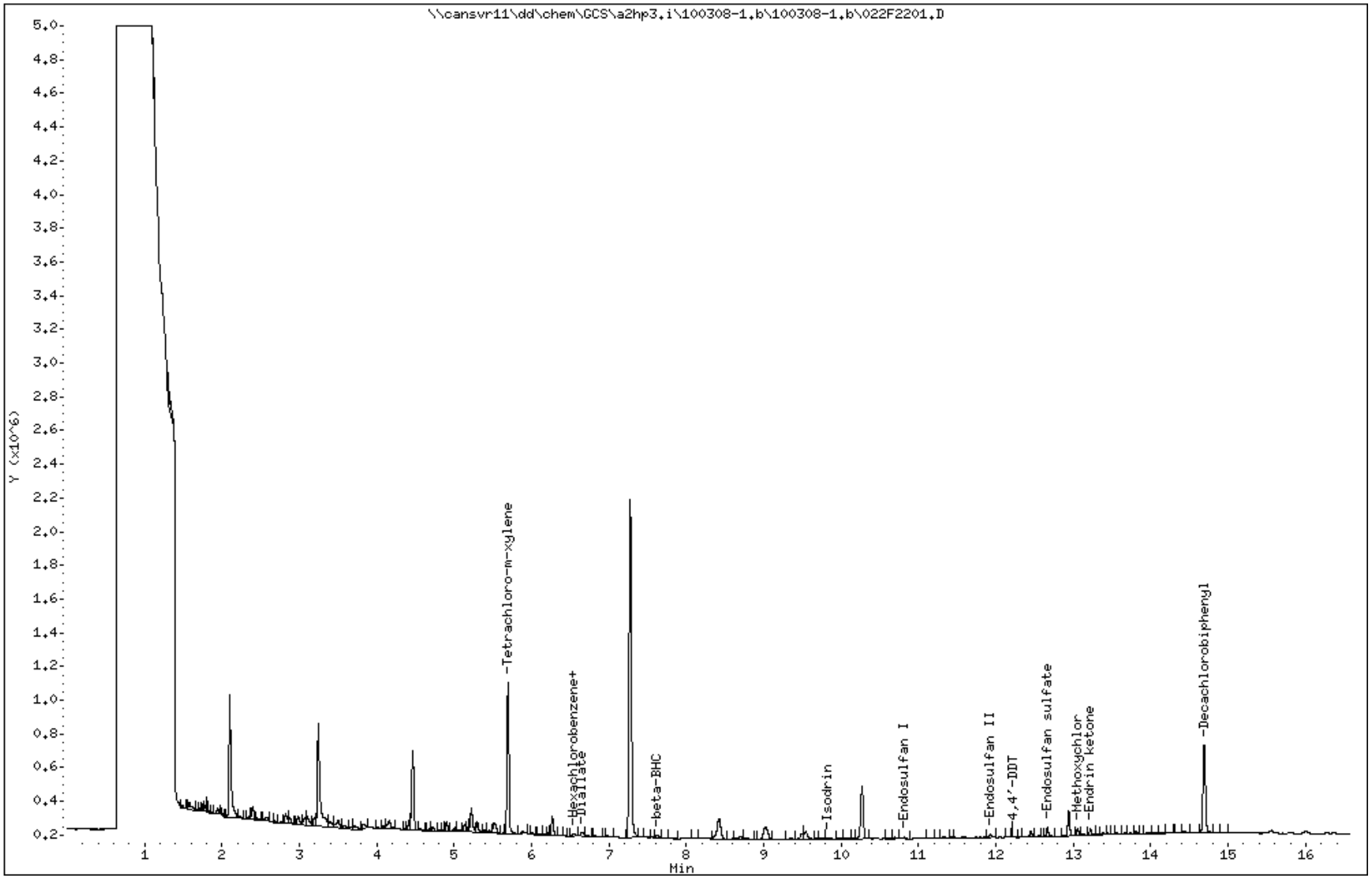
Sample Info: LV0FH1AA

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 19:36
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/022F2201.D
Lab Sample ID: LV0FH1AA
Misc. Info:
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.695	1587062	0.016	0.160 ug/Kg
2) Diallate	6.547	36624	0.000	0.000 ug/Kg
3) Hexachlorobenzene	6.547	36624	0.000	0.000 ug/Kg
4) alpha-BHC	NOT DETECTED	Expected RT = 6.770		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 7.404		
6) beta-BHC	7.626	39206	0.001	0.203 ug/Kg
9) Tech Chlordane	NOT DETECTED	Expected RT = 7.987		
7) delta-BHC	NOT DETECTED	Expected RT = 8.231		
8) Heptachlor	NOT DETECTED	Expected RT = 8.308		
10) Aldrin	NOT DETECTED	Expected RT = 9.058		
11) Isodrin	9.834	28539	0.000	0.000 ug/Kg
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 10.217		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 10.531		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 10.764		
15) Endosulfan I	10.816	27596	0.000	0.087 ug/Kg
16) 4,4'-DDE	NOT DETECTED	Expected RT = 11.092		
17) Dieldrin	NOT DETECTED	Expected RT = 11.215		
20) Endrin	NOT DETECTED	Expected RT = 11.611		
18) Chlorobenzilate	NOT DETECTED	Expected RT = 11.701		
21) Kepone	NOT DETECTED	Expected RT = 11.750		
22) 4,4'-DDD	NOT DETECTED	Expected RT = 11.856		
23) Endosulfan II	11.926	41259	0.000	0.120 ug/Kg
19) Toxaphene	NOT DETECTED	Expected RT = 12.014		
24) 4,4'-DDT	12.232	8267	0.000	0.038 ug/Kg
25) Endrin aldehyde	NOT DETECTED	Expected RT = 12.325		
26) Endosulfan sulfate	12.663	101406	0.001	0.407 ug/Kg
28) Methoxychlor	13.053	71099	0.002	0.693 ug/Kg
27) Mirex	NOT DETECTED	Expected RT = 13.203		
29) Endrin ketone	13.219	76477	0.001	0.253 ug/Kg
30) Decachlorobiphenyl	14.691	1172125	0.019	0.193 ug/Kg

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LVTQ31CD-MS **Matrix.....:** SO
MS Lot-Sample #: A0B180429-004 LVTQ31CE-MSD
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0054022
Dilution Factor: 2 **Initial Wgt/Vol:** 30.08 g **Final Wgt/Vol..:** 10 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
gamma-BHC (Lindane)	**92**	**(60 - 125)**			**SW846 8081A**
	86	**(60 - 125)**	**7.4**	**(0-36)**	**SW846 8081A**
Heptachlor	**81**	**(50 - 140)**			**SW846 8081A**
	78	**(50 - 140)**	**4.4**	**(0-44)**	**SW846 8081A**
Aldrin	**88**	**(45 - 140)**			**SW846 8081A**
	82	**(45 - 140)**	**6.3**	**(0-40)**	**SW846 8081A**
Dieldrin	**90**	**(65 - 125)**			**SW846 8081A**
	86	**(65 - 125)**	**4.4**	**(0-33)**	**SW846 8081A**
Endrin	**95**	**(60 - 135)**			**SW846 8081A**
	88	**(60 - 135)**	**8.1**	**(0-38)**	**SW846 8081A**
4,4'-DDT	**98**	**(45 - 140)**			**SW846 8081A**
	88	**(45 - 140)**	**11**	**(0-42)**	**SW846 8081A**
alpha-BHC	**92**	**(60 - 125)**			**SW846 8081A**
	87	**(60 - 125)**	**5.5**	**(0-40)**	**SW846 8081A**
beta-BHC	**99**	**(60 - 125)**			**SW846 8081A**
	96	**(60 - 125)**	**3.5**	**(0-43)**	**SW846 8081A**
delta-BHC	**95**	**(55 - 130)**			**SW846 8081A**
	90	**(55 - 130)**	**5.6**	**(0-34)**	**SW846 8081A**
Heptachlor epoxide	**89**	**(65 - 130)**			**SW846 8081A**
	83	**(65 - 130)**	**6.6**	**(0-43)**	**SW846 8081A**
Endosulfan I	**77**	**(15 - 135)**			**SW846 8081A**
	73	**(15 - 135)**	**5.3**	**(0-41)**	**SW846 8081A**
4,4'-DDE	**105**	**(70 - 125)**			**SW846 8081A**
	99	**(70 - 125)**	**5.7**	**(0-39)**	**SW846 8081A**
Endosulfan II	**85**	**(35 - 140)**			**SW846 8081A**
	79	**(35 - 140)**	**7.7**	**(0-27)**	**SW846 8081A**
4,4'-DDD	**106**	**(30 - 135)**			**SW846 8081A**
	101	**(30 - 135)**	**5.6**	**(0-35)**	**SW846 8081A**
Endosulfan sulfate	**104**	**(60 - 135)**			**SW846 8081A**
	95	**(60 - 135)**	**8.3**	**(0-34)**	**SW846 8081A**
Methoxychlor	**108**	**(55 - 145)**			**SW846 8081A**
	102	**(55 - 145)**	**4.9**	**(0-41)**	**SW846 8081A**
Endrin ketone	**102**	**(65 - 135)**			**SW846 8081A**
	94	**(65 - 135)**	**7.9**	**(0-32)**	**SW846 8081A**
Endrin aldehyde	**81**	**(35 - 145)**			**SW846 8081A**
	75	**(35 - 145)**	**7.6**	**(0-29)**	**SW846 8081A**
alpha-Chlordane	**85**	**(65 - 120)**			**SW846 8081A**
	81	**(65 - 120)**	**4.9**	**(0-65)**	**SW846 8081A**
gamma-Chlordane	**86**	**(65 - 125)**			**SW846 8081A**
	80	**(65 - 125)**	**6.5**	**(0-36)**	**SW846 8081A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LVTQ31CD-MS **Matrix.....:** SO
MS Lot-Sample #: A0B180429-004 LVTQ31CE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	122	(70 - 125)
	115	(70 - 125)
Decachlorobiphenyl	106	(55 - 130)
	94	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LVTQ31CD-MS **Matrix.....:** SO
MS Lot-Sample #: A0B180429-004 LVTQ31CE-MSD
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0054022
Dilution Factor: 2 **Initial Wgt/Vol:** 30.08 g **Final Wgt/Vol..:** 10 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
gamma-BHC (Lindane)	ND	34	31	ug/kg	92		SW846 8081A
	ND	34	29	ug/kg	86	7.4	SW846 8081A
Heptachlor	ND	34	28	ug/kg	81		SW846 8081A
	ND	34	26	ug/kg	78	4.4	SW846 8081A
Aldrin	ND	34	30	ug/kg	88		SW846 8081A
	ND	34	28	ug/kg	82	6.3	SW846 8081A
Dieldrin	ND	34	30	ug/kg	90		SW846 8081A
	ND	34	29	ug/kg	86	4.4	SW846 8081A
Endrin	ND	34	32	ug/kg	95		SW846 8081A
	ND	34	30	ug/kg	88	8.1	SW846 8081A
4,4'-DDT	ND	34	33	ug/kg	98		SW846 8081A
	ND	34	30	ug/kg	88	11	SW846 8081A
alpha-BHC	ND	34	31	ug/kg	92		SW846 8081A
	ND	34	29	ug/kg	87	5.5	SW846 8081A
beta-BHC	ND	34	34	ug/kg	99		SW846 8081A
	ND	34	32	ug/kg	96	3.5	SW846 8081A
delta-BHC	ND	34	32	ug/kg	95		SW846 8081A
	ND	34	30	ug/kg	90	5.6	SW846 8081A
Heptachlor epoxide	ND	34	30	ug/kg	89		SW846 8081A
	ND	34	28	ug/kg	83	6.6	SW846 8081A
Endosulfan I	ND	34	26	ug/kg	77		SW846 8081A
	ND	34	25	ug/kg	73	5.3	SW846 8081A
4,4'-DDE	ND	34	35	ug/kg	105		SW846 8081A
	ND	34	34	ug/kg	99	5.7	SW846 8081A
Endosulfan II	ND	34	29	ug/kg	85		SW846 8081A
	ND	34	27	ug/kg	79	7.7	SW846 8081A
4,4'-DDD	ND	34	36	ug/kg	106		SW846 8081A
	ND	34	34	ug/kg	101	5.6	SW846 8081A
Endosulfan sulfate	ND	34	35	ug/kg	104		SW846 8081A
	ND	34	32	ug/kg	95	8.3	SW846 8081A
Methoxychlor	ND	34	37	ug/kg	108		SW846 8081A
	ND	34	35	ug/kg	102	4.9	SW846 8081A
Endrin ketone	ND	34	34	ug/kg	102		SW846 8081A
	ND	34	32	ug/kg	94	7.9	SW846 8081A
Endrin aldehyde	ND	34	28	ug/kg	81		SW846 8081A
	ND	34	26	ug/kg	75	7.6	SW846 8081A
alpha-Chlordane	ND	34	29	ug/kg	85		SW846 8081A
	ND	34	27	ug/kg	81	4.9	SW846 8081A
gamma-Chlordane	ND	34	29	ug/kg	86		SW846 8081A
	ND	34	27	ug/kg	80	6.5	SW846 8081A

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LVTQ31CD-MS **Matrix.....:** SO
MS Lot-Sample #: A0B180429-004 LVTQ31CE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	122	(70 - 125)
	115	(70 - 125)
Decachlorobiphenyl	106	(55 - 130)
	94	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\027F2701.D
Lab Smp Id: LVTQ31CD Client Smp ID: B12SS-038M-5040-SO
Inj Date : 08-MAR-2010 21:39
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LVTQ31CD,2
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 09:35 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43 Cal File: 015F1501.D
Als bottle: 27 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.080	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.842	4.834	0.008	3424304	0.00890	0.1780		(M)
4 alpha-BHC					CAS #: 319-84-6		
5.797	5.788	0.009	26055946	0.04110	27.32		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
6.302	6.293	0.009	24582221	0.04334	28.82		(M)
6 beta-BHC					CAS #: 319-85-7		
6.474	6.465	0.009	9167679	0.04137	27.51		
7 delta-BHC					CAS #: 319-86-8		
6.713	6.704	0.009	40113412	0.03795	25.23		
9 Heptachlor					CAS #: 76-44-8		
7.043	7.016	0.027	397386208	0.36364	241.8		(R)
10 Aldrin					CAS #: 309-00-2		

```
7.517    7.506    0.011        13313757 0.03333    22.16
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
8.851	8.837	0.014	41349302	0.04437	29.50		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.128	9.114	0.014	13266829	0.04192	27.87		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.408	9.397	0.011	8919529	0.02759	18.35		
16 4,4'-DDE					CAS #: 72-55-9		
9.707	9.697	0.010	29336834	0.03267	21.72		
15 Endosulfan I					CAS #: 959-98-8		
9.621	9.609	0.012	22070315	0.02683	17.84		
17 Dieldrin					CAS #: 60-57-1		
10.057	10.047	0.010	14591247	0.04157	27.64		
20 Endrin					CAS #: 72-20-8		
10.407	10.398	0.009	31324111	0.04059	26.99		
22 4,4'-DDD					CAS #: 72-54-8		
10.672	10.664	0.008	25035457	0.04077	27.10		
23 Endosulfan II					CAS #: 33213-65-9		
10.749	10.740	0.009	11889679	0.03918	26.05		
24 4,4'-DDT					CAS #: 50-29-3		
11.067	11.058	0.009	23750058	0.03870	25.73		
26 Endrin aldehyde					CAS #: 7421-93-4		
11.354	11.345	0.009	17435258	0.03403	22.63		
27 Methoxychlor					CAS #: 72-43-5		
11.774	11.767	0.007	9751834	0.03790	25.20		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.907	11.898	0.009	12332776	0.04370	29.06		
29 Endrin ketone					CAS #: 53494-70-5		
12.217	12.210	0.007	24892145	0.04053	26.95		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.424	13.420	0.004	1758205	0.00737	0.1475		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\027F2701.D

Date : 08-MAR-2010 21:39

Client ID: B12SS-038M-5040-SO

Instrument: a2hp3.i

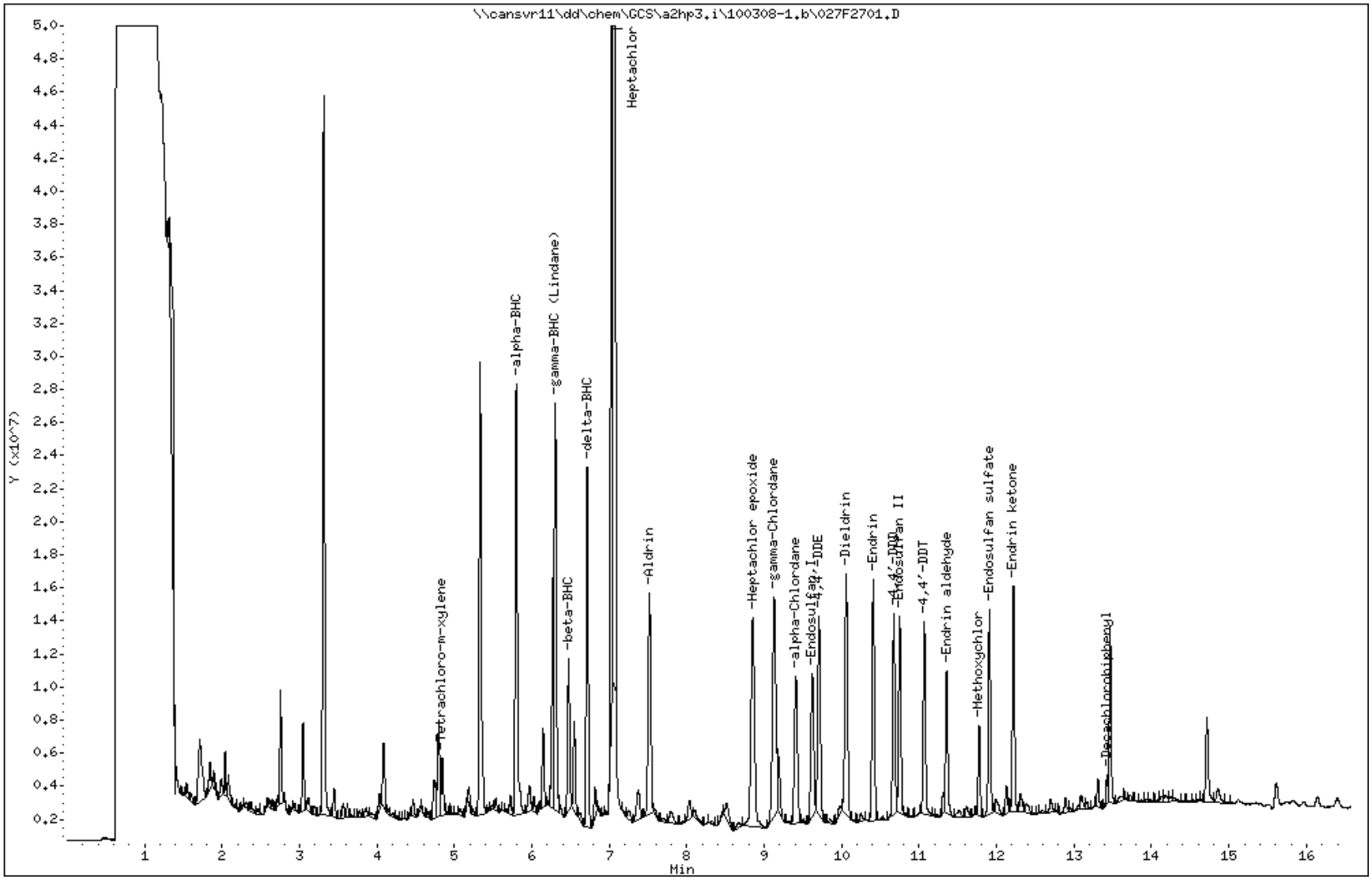
Sample Info: LVTQ31CD,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

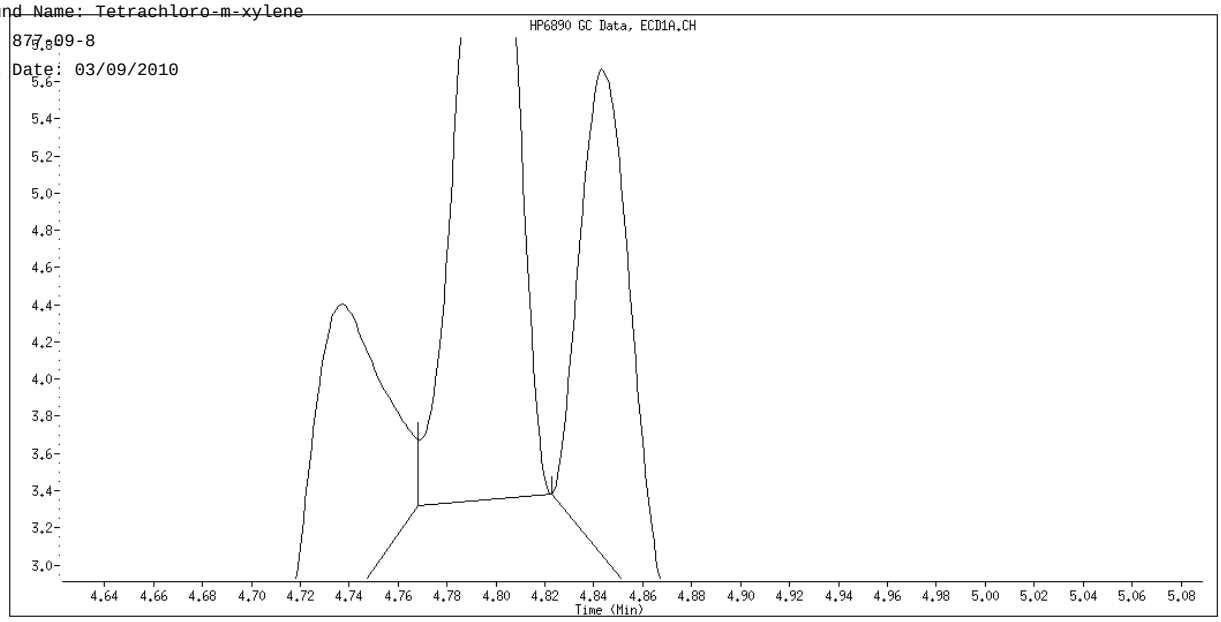


COMPOUNDS and EXP. RT REPORT

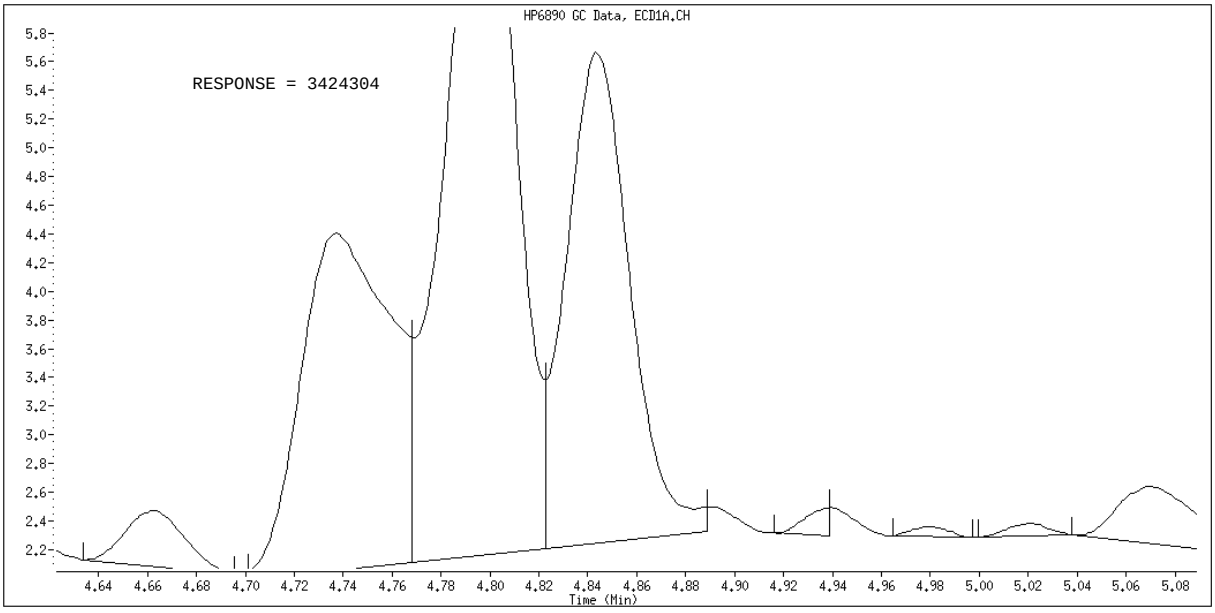
Operator: 093905 Date Acquired: 08-MAR-2010 21:39
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/027F2701.D
Lab Sample ID: LVTQ31CD
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.843	6228625	0.009	0.178 ug/Kg
4) alpha-BHC	5.798	51822091	0.041	27.325 ug/Kg
5) gamma-BHC (Lindane)	6.303	48792269	0.043	28.819 ug/Kg
6) beta-BHC	6.475	16967968	0.041	27.509 ug/Kg
7) delta-BHC	6.714	40113412	0.038	25.231 ug/Kg
9) Heptachlor	7.044	397386208	0.364	241.780 ug/Kg
10) Aldrin	7.518	31980814	0.033	22.164 ug/Kg
12) Heptachlor epoxide	8.851	41349302	0.044	29.504 ug/Kg
13) gamma-Chlordane	9.129	40867315	0.042	27.871 ug/Kg
14) alpha-Chlordane	9.409	24626509	0.028	18.347 ug/Kg
15) Endosulfan I	9.621	22070315	0.027	17.841 ug/Kg
16) 4,4'-DDE	9.707	29336834	0.033	21.720 ug/Kg
17) Dieldrin	10.058	35254881	0.042	27.641 ug/Kg
20) Endrin	10.407	31324111	0.041	26.987 ug/Kg
22) 4,4'-DDD	10.673	25035457	0.041	27.105 ug/Kg
23) Endosulfan II	10.750	24612135	0.039	26.051 ug/Kg
24) 4,4'-DDT	11.067	23750058	0.039	25.731 ug/Kg
26) Endrin aldehyde	11.355	17435258	0.034	22.626 ug/Kg
27) Methoxychlor	11.775	9751834	0.038	25.199 ug/Kg
28) Endosulfan sulfate	11.907	23961742	0.044	29.056 ug/Kg
29) Endrin ketone	12.218	24892145	0.041	26.948 ug/Kg
30) Decachlorobiphenyl	13.425	2698336	0.007	0.147 ug/Kg

Data File Name: 027F2701.D
Inj. Date and Time: 08-MAR-2010 21:39
Instrument ID: a2hp3.i
Client ID: B12SS-038M-5040-SO
Compound Name: Tetrachloro-m-xylene
CAS #: 877-09-8
Report Date: 03/09/2010



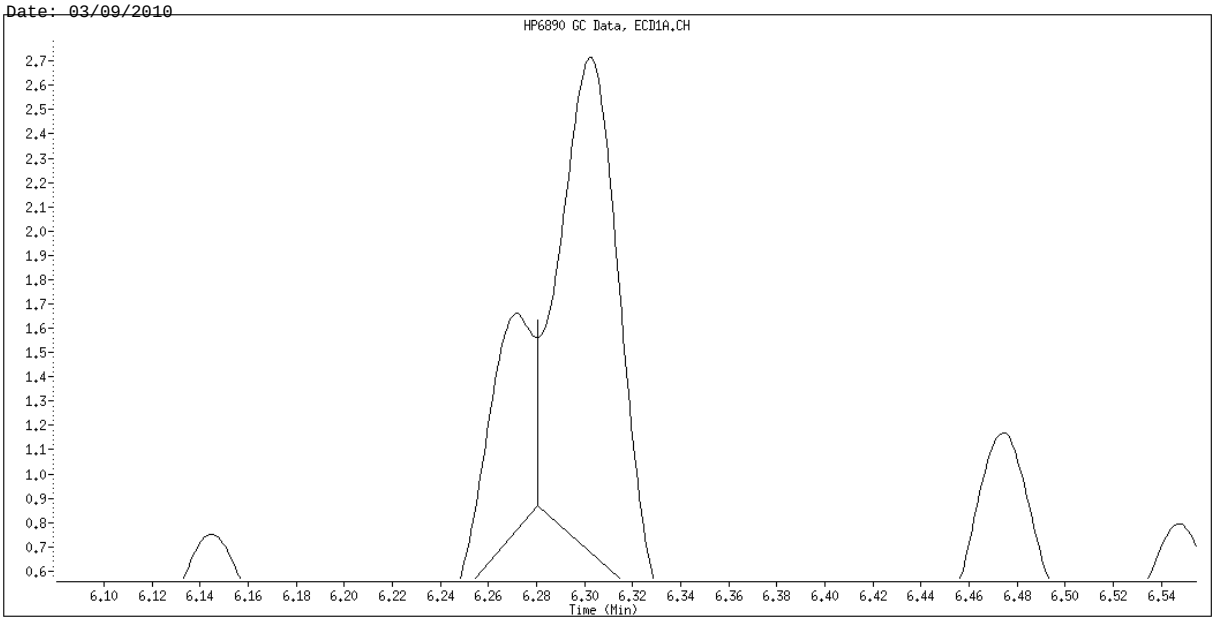
Original Integration



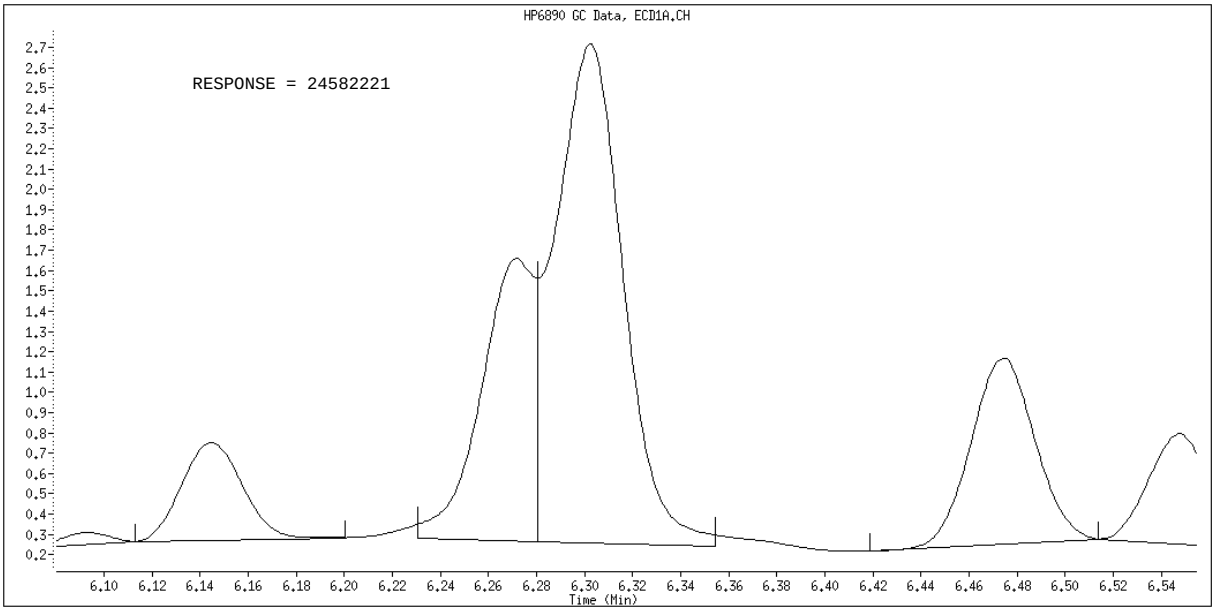
Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

Data File Name: 027F2701.D
Inj. Date and Time: 08-MAR-2010 21:39
Instrument ID: a2hp3.i
Client ID: B12SS-038M-5040-SO
Compound Name: gamma-BHC (Lindane)
CAS #: 58-89-9
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\027F2701.D
Lab Smp Id: LVTQ31CD Client Smp ID: B12SS-038M-5040-SO
Inj Date : 08-MAR-2010 21:39
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LVTQ31CD,2
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 09:37 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 27 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.080	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
5.696	5.692	0.004	1202180	0.01215	0.2430		
4 alpha-BHC					CAS #: 319-84-6		
6.772	6.769	0.003	4130478	0.04598	30.57		
16 4,4'-DDE					CAS #: 72-55-9		
11.095	11.092	0.003	5109954	0.05235	34.81		
15 Endosulfan I					CAS #: 959-98-8		
10.817	10.814	0.003	4088362	0.03878	25.78		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
7.407	7.403	0.004	3116447	0.04612	30.67		
6 beta-BHC					CAS #: 319-85-7		
7.622	7.617	0.005	1238768	0.04957	32.96		

```
    7 delta-BHC                                   CAS #: 319-86-8
8.235    8.231    0.004         6337149 0.04744    31.54
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
8 Heptachlor					CAS #: 76-44-8		
8.312	8.307	0.005	5729903	0.04078	27.11		
10 Aldrin					CAS #: 309-00-2		
9.062	9.057	0.005	5724310	0.04393	29.21		
12 Heptachlor epoxide					CAS #: 1024-57-3		

Peaks not detected for Quant. or Qual. signal(s).

13 gamma-Chlordane					CAS #: 5103-74-2		
10.534	10.531	0.003	2294271	0.04294	28.55		
14 alpha-Chlordane					CAS #: 5103-71-9		
10.767	10.763	0.004	2276241	0.04245	28.22		
17 Dieldrin					CAS #: 60-57-1		
11.217	11.215	0.002	4861981	0.04491	29.86		
20 Endrin					CAS #: 72-20-8		
11.615	11.611	0.004	2474393	0.04765	31.68		
22 4,4'-DDD					CAS #: 72-54-8		
11.858	11.856	0.002	3698525	0.05331	35.44		
23 Endosulfan II					CAS #: 33213-65-9		
11.899	11.896	0.003	2090353	0.04265	28.36		
24 4,4'-DDT					CAS #: 50-29-3		
12.232	12.231	0.001	3509268	0.04900	32.58		
25 Endrin aldehyde					CAS #: 7421-93-4		
12.327	12.324	0.003	1504168	0.04079	27.12		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.653	12.651	0.002	2234457	0.05195	34.54		
28 Methoxychlor					CAS #: 72-43-5		
13.041	13.037	0.004	1011568	0.05392	35.85		
29 Endrin ketone					CAS #: 53494-70-5		
13.230	13.227	0.003	2584217	0.05091	33.85		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.692	14.687	0.005	286948	0.01065	0.2130		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\027F2701.D

Date : 08-MAR-2010 21:39

Client ID: B12SS-038M-5040-SO

Instrument: a2hp3.i

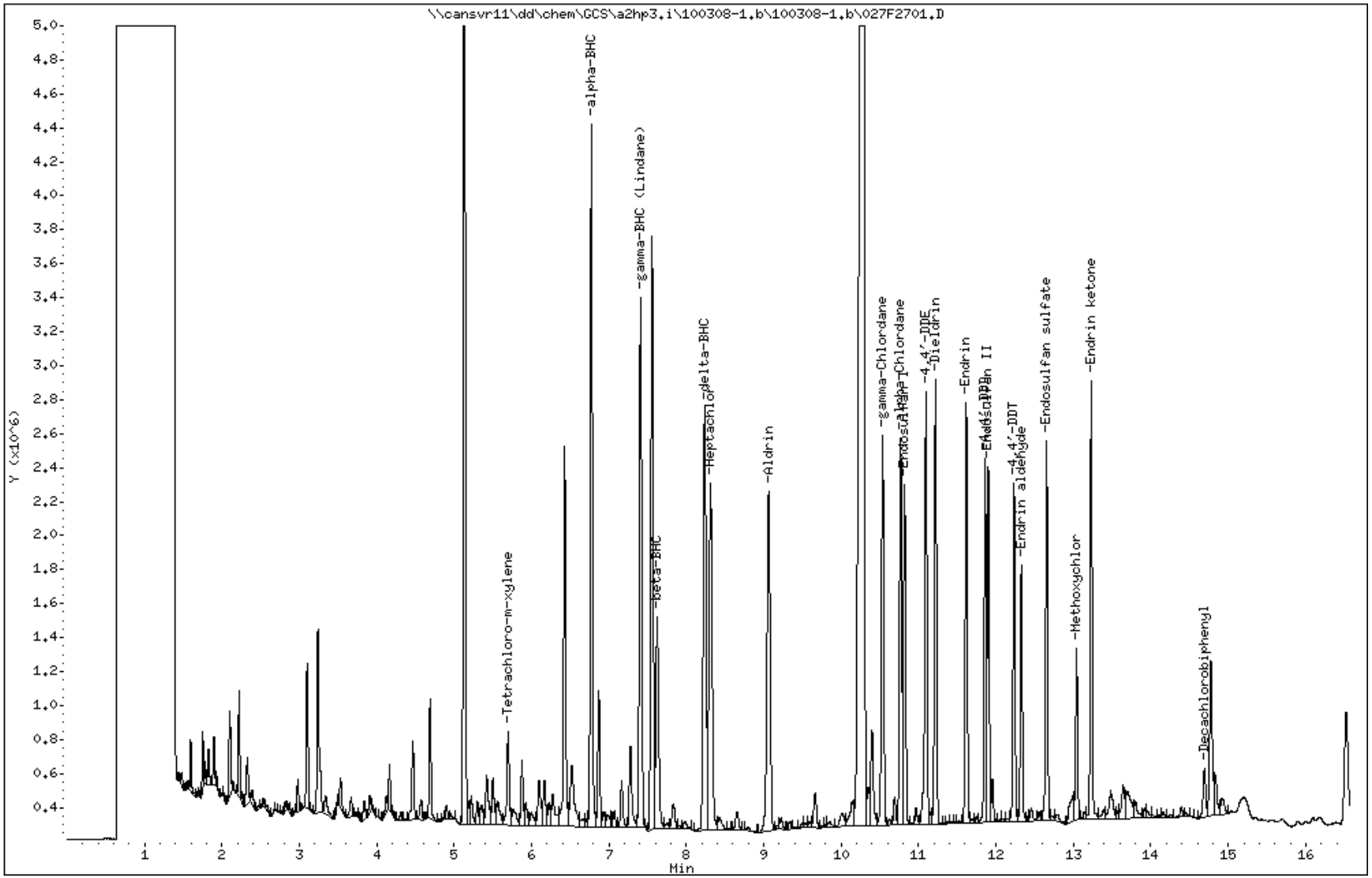
Sample Info: LVTQ31CD,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 21:39
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/027F2701.D
Lab Sample ID: LVTQ31CD
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.696	1202180	0.012	0.243 ug/Kg
4) alpha-BHC	6.773	7329354	0.046	30.569 ug/Kg
5) gamma-BHC (Lindane)	7.408	6426829	0.046	30.666 ug/Kg
6) beta-BHC	7.622	3114752	0.050	32.962 ug/Kg
7) delta-BHC	8.235	6337149	0.047	31.541 ug/Kg
8) Heptachlor	8.313	5729903	0.041	27.113 ug/Kg
10) Aldrin	9.063	5724310	0.044	29.206 ug/Kg
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 10.217		
13) gamma-Chlordane	10.535	4817818	0.043	28.550 ug/Kg
14) alpha-Chlordane	10.767	4580803	0.042	28.222 ug/Kg
15) Endosulfan I	10.818	4088362	0.039	25.784 ug/Kg
16) 4,4'-DDE	11.095	5109954	0.052	34.810 ug/Kg
17) Dieldrin	11.218	4861981	0.045	29.858 ug/Kg
20) Endrin	11.615	4444805	0.048	31.679 ug/Kg
22) 4,4'-DDD	11.859	3698525	0.053	35.446 ug/Kg
23) Endosulfan II	11.900	3694891	0.043	28.359 ug/Kg
24) 4,4'-DDT	12.233	3509268	0.049	32.583 ug/Kg
25) Endrin aldehyde	12.327	2627971	0.041	27.123 ug/Kg
26) Endosulfan sulfate	12.654	3889740	0.052	34.539 ug/Kg
28) Methoxychlor	13.041	1738647	0.054	35.850 ug/Kg
29) Endrin ketone	13.230	4482610	0.051	33.852 ug/Kg
30) Decachlorobiphenyl	14.692	699301	0.011	0.213 ug/Kg

TestAmerica North Canton

PESTICIDE 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\028F2801.D
Lab Smp Id: LVTQ31CE Client Smp ID: B12SS-038M-5040-SO
Inj Date : 08-MAR-2010 22:04
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LVTQ31CE,2
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Meth Date : 09-Mar-2010 09:35 vandorenc Quant Type: ESTD
Cal Date : 12-FEB-2010 20:43 Cal File: 015F1501.D
Als bottle: 28 QC Sample: MSD
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.140	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO	
RT	EXP RT	DLT RT	RESPONSE					
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.843	4.834	0.009	3252337	0.00846	0.1691			(M)
4 alpha-BHC						CAS #: 319-84-6		
5.797	5.788	0.009	24300704	0.03833	25.43			
5 gamma-BHC (Lindane)						CAS #: 58-89-9		
6.302	6.293	0.009	22756267	0.04012	26.62			(M)
6 beta-BHC						CAS #: 319-85-7		
6.474	6.465	0.009	8605764	0.03884	25.77			
7 delta-BHC						CAS #: 319-86-8		
6.714	6.704	0.010	37210095	0.03520	23.36			

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

9 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

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10 Aldrin CAS #: 309-00-2

7.517	7.506	0.011	12374617	0.03098	20.56		

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12 Heptachlor epoxide CAS #: 1024-57-3

8.850	8.837	0.013	38785543	0.04162	27.62		

---

13 gamma-Chlordane CAS #: 5103-74-2

9.127	9.114	0.013	12164666	0.03844	25.50		

---

14 alpha-Chlordane CAS #: 5103-71-9

9.408	9.397	0.011	8361356	0.02587	17.16		

---

16 4,4'-DDE CAS #: 72-55-9

9.707	9.697	0.010	26816768	0.02986	19.81		

---

15 Endosulfan I CAS #: 959-98-8

9.620	9.609	0.011	19941997	0.02425	16.09		

---

17 Dieldrin CAS #: 60-57-1

10.056	10.047	0.009	13599194	0.03875	25.71		

---

20 Endrin CAS #: 72-20-8

10.405	10.398	0.007	28970589	0.03754	24.91		

---

22 4,4'-DDD CAS #: 72-54-8

10.672	10.664	0.008	22470153	0.03659	24.28		

---

23 Endosulfan II CAS #: 33213-65-9

10.748	10.740	0.008	11029090	0.03634	24.12		

---

24 4,4'-DDT CAS #: 50-29-3

11.065	11.058	0.007	21908913	0.03570	23.69		

---

26 Endrin aldehyde CAS #: 7421-93-4

11.353	11.345	0.008	14097637	0.02752	18.26		

---

27 Methoxychlor CAS #: 72-43-5

11.773	11.767	0.006	9196405	0.03574	23.72		

---

28 Endosulfan sulfate CAS #: 1031-07-8

11.905	11.898	0.007	11728190	0.04156	27.58		

---

29 Endrin ketone CAS #: 53494-70-5

12.216	12.210	0.006	22683707	0.03693	24.51		

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

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13.423  13.420    0.003         1595279 0.00669   0.1338
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QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\028F2801.D

Date : 08-MAR-2010 22:04

Client ID: B12SS-038M-5040-SO

Instrument: a2hp3.i

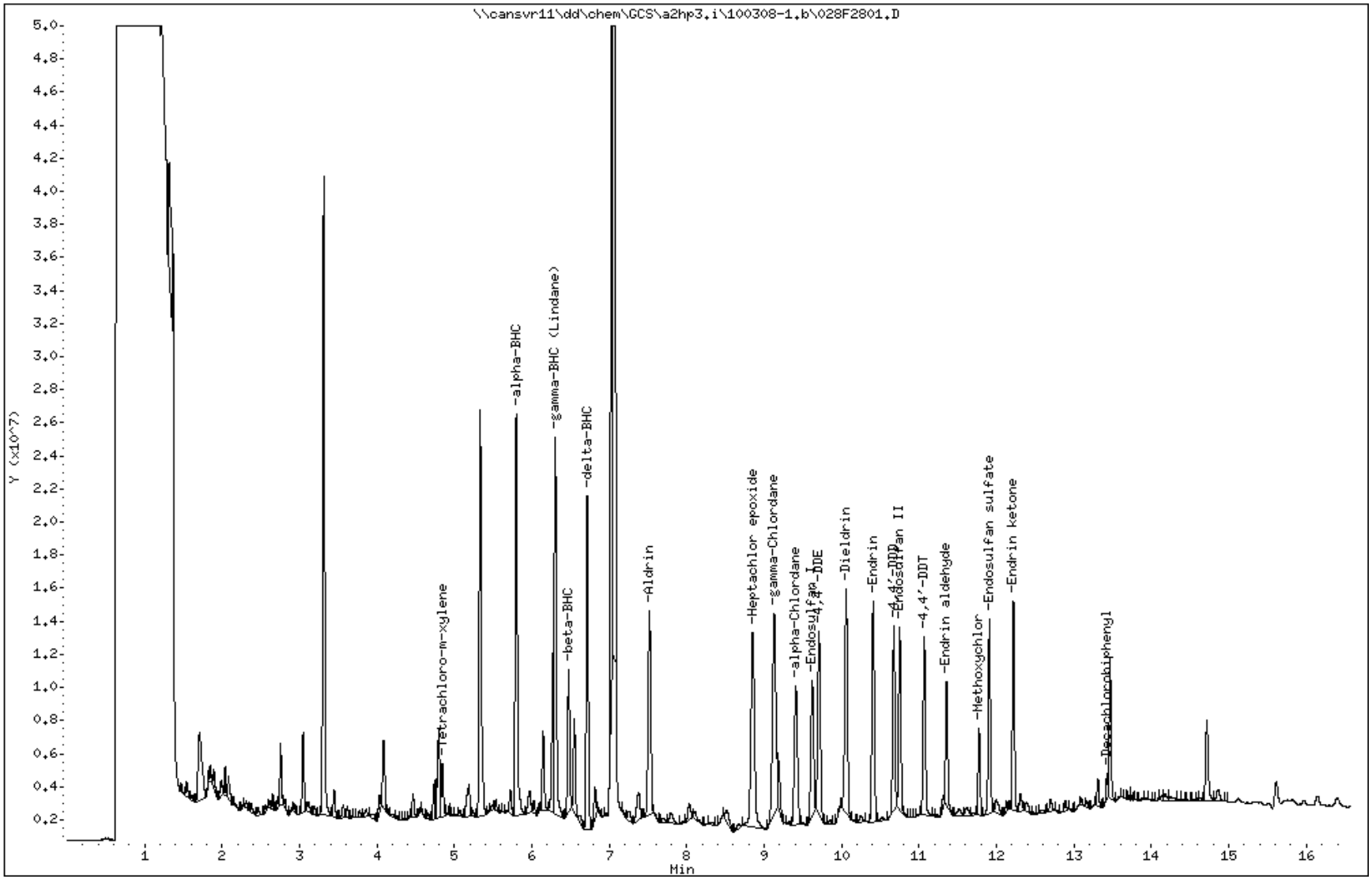
Sample Info: LVTQ31CE,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides

Column diameter: 0.53

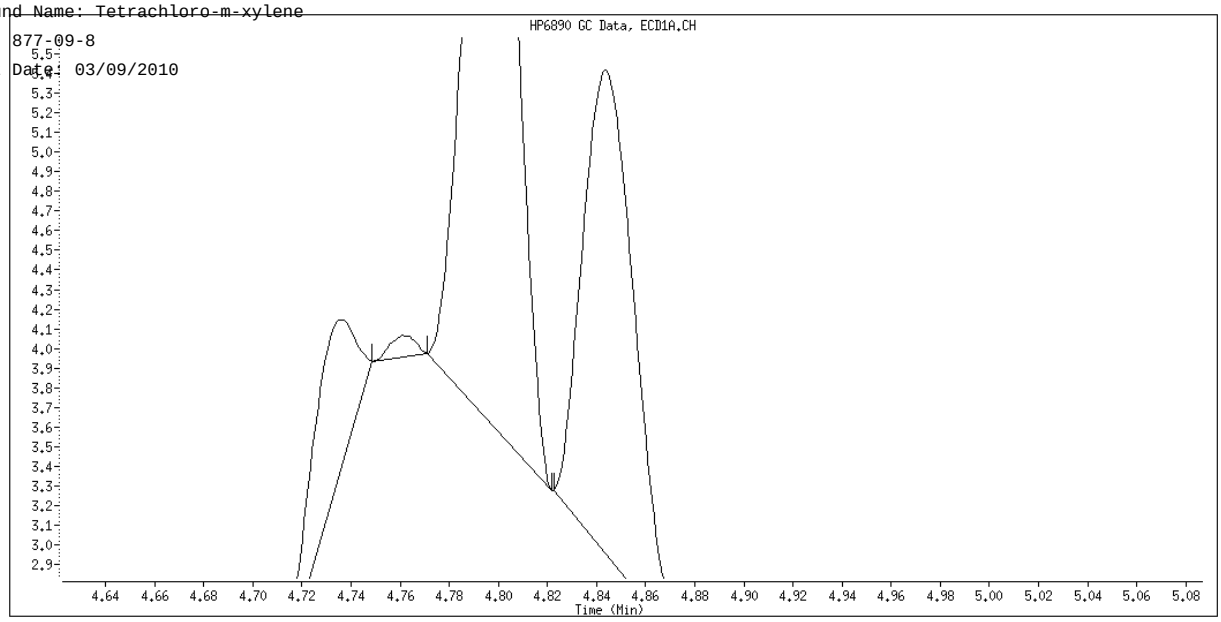


COMPOUNDS and EXP. RT REPORT

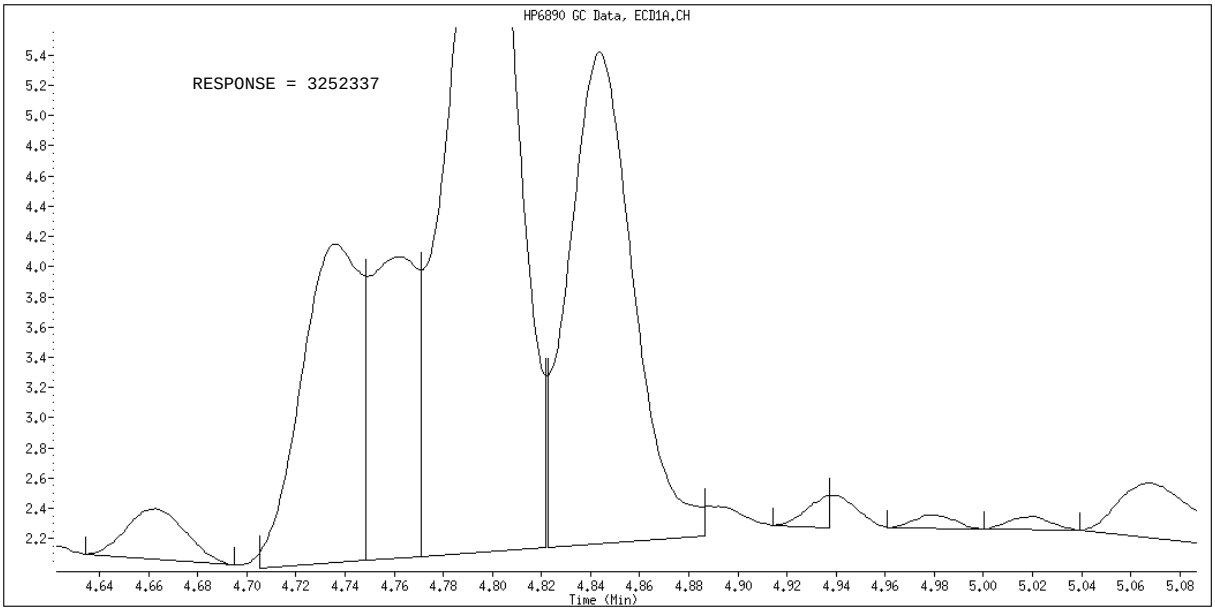
Operator: 093905 Date Acquired: 08-MAR-2010 22:04
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/028F2801.D
Lab Sample ID: LVTQ31CE
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.843	6003955	0.008	0.169 ug/Kg
4) alpha-BHC	5.798	47759028	0.038	25.433 ug/Kg
5) gamma-BHC (Lindane)	6.303	46695850	0.040	26.626 ug/Kg
6) beta-BHC	6.474	15970806	0.039	25.771 ug/Kg
7) delta-BHC	6.714	37210095	0.035	23.358 ug/Kg
9) Heptachlor	NOT DETECTED Expected RT = 7.016			
10) Aldrin	7.518	30057968	0.031	20.560 ug/Kg
12) Heptachlor epoxide	8.851	38785543	0.042	27.620 ug/Kg
13) gamma-Chlordane	9.128	37773312	0.038	25.505 ug/Kg
14) alpha-Chlordane	9.408	23211991	0.026	17.164 ug/Kg
15) Endosulfan I	9.620	19941997	0.024	16.089 ug/Kg
16) 4,4'-DDE	9.708	26816768	0.030	19.815 ug/Kg
17) Dieldrin	10.057	32792613	0.039	25.710 ug/Kg
20) Endrin	10.406	28970589	0.038	24.910 ug/Kg
22) 4,4'-DDD	10.673	22470153	0.037	24.279 ug/Kg
23) Endosulfan II	10.748	22130956	0.036	24.117 ug/Kg
24) 4,4'-DDT	11.066	21908913	0.036	23.689 ug/Kg
26) Endrin aldehyde	11.353	14097637	0.028	18.258 ug/Kg
27) Methoxychlor	11.773	9196405	0.036	23.716 ug/Kg
28) Endosulfan sulfate	11.906	22545080	0.042	27.577 ug/Kg
29) Endrin ketone	12.217	22683707	0.037	24.508 ug/Kg
30) Decachlorobiphenyl	13.423	2282652	0.007	0.134 ug/Kg

Data File Name: 028F2801.D
Inj. Date and Time: 08-MAR-2010 22:04
Instrument ID: a2hp3.i
Client ID: B12SS-038M-5040-SO
Compound Name: Tetrachloro-m-xylene
CAS #: 877-09-8
Report Date: 03/09/2010



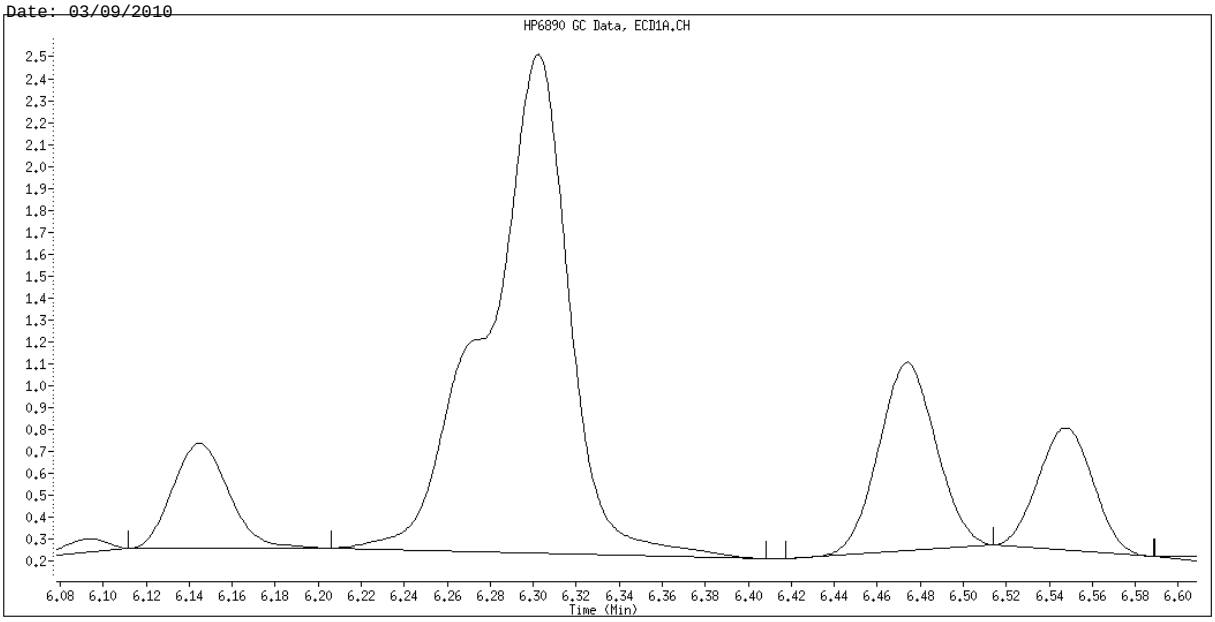
Original Integration



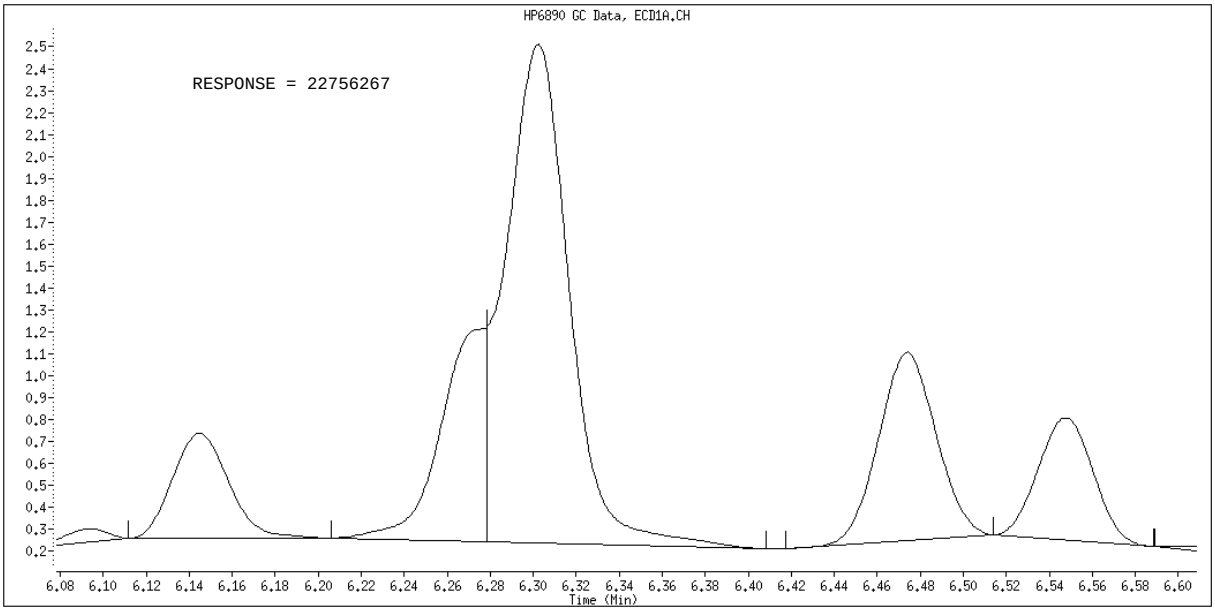
Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

Data File Name: 028F2801.D
Inj. Date and Time: 08-MAR-2010 22:04
Instrument ID: a2hp3.i
Client ID: B12SS-038M-5040-SO
Compound Name: gamma-BHC (Lindane)
CAS #: 58-89-9
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\028F2801.D
Lab Smp Id: LVTQ31CE Client Smp ID: B12SS-038M-5040-SO
Inj Date : 08-MAR-2010 22:04
Operator : 093905 Inst ID: a2hp3.i
Smp Info : LVTQ31CE,2
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Meth Date : 09-Mar-2010 09:37 vandorenc Quant Type: ESTD
Cal Date : 08-MAR-2010 15:39 Cal File: 013F1301.D
Als bottle: 28 QC Sample: MSD
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.140	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
5.697	5.692	0.005	1142515	0.01155	0.2309		
4 alpha-BHC						CAS #: 319-84-6	
6.773	6.769	0.004	3918206	0.04361	28.94		
16 4,4'-DDE						CAS #: 72-55-9	
11.095	11.092	0.003	4836372	0.04955	32.88		
15 Endosulfan I						CAS #: 959-98-8	
10.819	10.814	0.005	3883555	0.03684	24.44		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
7.408	7.403	0.005	2900476	0.04293	28.48		
6 beta-BHC						CAS #: 319-85-7	
7.622	7.617	0.005	1198596	0.04797	31.83		

```
    7 delta-BHC                                    CAS #: 319-86-8
8.235    8.231    0.004         6002653 0.04493    29.82
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
8 Heptachlor					CAS #: 76-44-8		
8.312	8.307	0.005	5495277	0.03911	25.95		
10 Aldrin					CAS #: 309-00-2		
9.062	9.057	0.005	5384872	0.04132	27.42		
12 Heptachlor epoxide					CAS #: 1024-57-3		

Peaks not detected for Quant. or Qual. signal(s).

13 gamma-Chlordane					CAS #: 5103-74-2		
10.535	10.531	0.004	2154753	0.04033	26.76		
14 alpha-Chlordane					CAS #: 5103-71-9		
10.768	10.763	0.005	2170735	0.04048	26.86		
17 Dieldrin					CAS #: 60-57-1		
11.218	11.215	0.003	4662985	0.04307	28.58		
20 Endrin					CAS #: 72-20-8		
11.615	11.611	0.004	2287328	0.04404	29.22		
22 4,4'-DDD					CAS #: 72-54-8		
11.858	11.856	0.002	3503520	0.05050	33.51		
23 Endosulfan II					CAS #: 33213-65-9		
11.899	11.896	0.003	1938758	0.03956	26.25		
24 4,4'-DDT					CAS #: 50-29-3		
12.233	12.231	0.002	3162111	0.04416	29.30		
25 Endrin aldehyde					CAS #: 7421-93-4		
12.327	12.324	0.003	1396975	0.03789	25.14		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.654	12.651	0.003	2061178	0.04792	31.80		
28 Methoxychlor					CAS #: 72-43-5		
13.040	13.037	0.003	964610	0.05142	34.12		
29 Endrin ketone					CAS #: 53494-70-5		
13.230	13.227	0.003	2391717	0.04712	31.27		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.692	14.687	0.005	254264	0.00943	0.1887		

Data File: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\100308-1.b\028F2801.D

Date : 08-MAR-2010 22:04

Client ID: B12SS-038M-5040-SO

Instrument: a2hp3.i

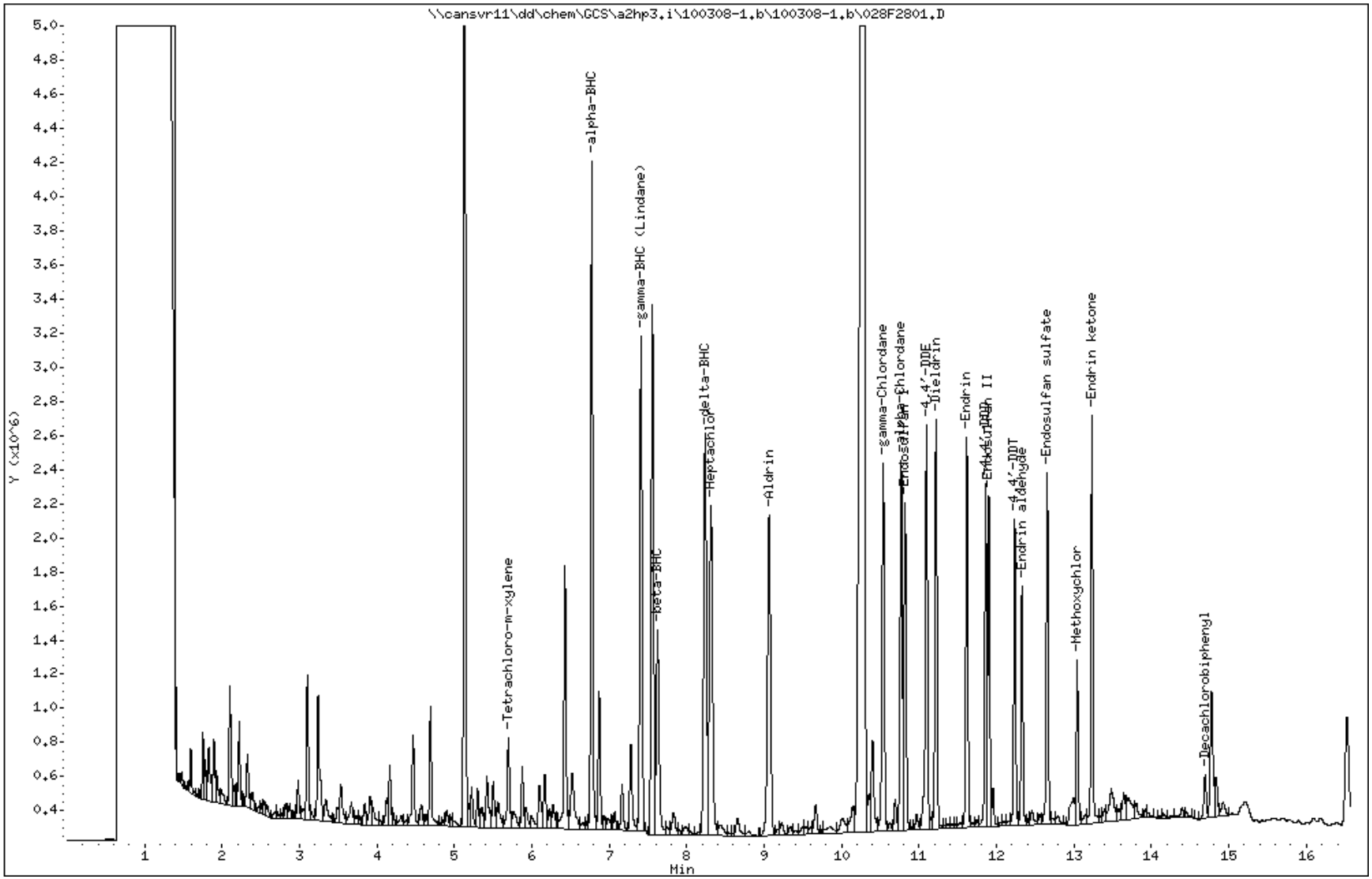
Sample Info: LVTQ31CE,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 08-MAR-2010 22:04
Data File: //cansvr11/dd/chem/GCS/a2hp3.i/100308-1.b/100308-1.b/028F2801.D
Lab Sample ID: LVTQ31CE
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp3.i
Method: \\cansvr11\dd\chem\GCS\a2hp3.i\100308-1.b\PEST3.m\pest3r.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	5.698	1142515	0.012	0.231 ug/Kg
4) alpha-BHC	6.773	6858113	0.044	28.940 ug/Kg
5) gamma-BHC (Lindane)	7.408	6006523	0.043	28.484 ug/Kg
6) beta-BHC	7.623	3128824	0.048	31.829 ug/Kg
7) delta-BHC	8.235	6002653	0.045	29.817 ug/Kg
8) Heptachlor	8.313	5495277	0.039	25.951 ug/Kg
10) Aldrin	9.063	5384872	0.041	27.420 ug/Kg
12) Heptachlor epoxide	NOT DETECTED Expected RT = 10.217			
13) gamma-Chlordane	10.536	4589253	0.040	26.761 ug/Kg
14) alpha-Chlordane	10.768	4339293	0.040	26.860 ug/Kg
15) Endosulfan I	10.819	3883555	0.037	24.444 ug/Kg
16) 4,4'-DDE	11.095	4836372	0.050	32.880 ug/Kg
17) Dieldrin	11.218	4662985	0.043	28.579 ug/Kg
20) Endrin	11.615	4207789	0.044	29.226 ug/Kg
22) 4,4'-DDD	11.858	3503520	0.050	33.510 ug/Kg
23) Endosulfan II	11.899	3402129	0.040	26.250 ug/Kg
24) 4,4'-DDT	12.233	3162111	0.044	29.301 ug/Kg
25) Endrin aldehyde	12.328	2484514	0.038	25.140 ug/Kg
26) Endosulfan sulfate	12.654	3656124	0.048	31.797 ug/Kg
28) Methoxychlor	13.041	1685614	0.051	34.118 ug/Kg
29) Endrin ketone	13.231	4172350	0.047	31.268 ug/Kg
30) Decachlorobiphenyl	14.693	573282	0.009	0.189 ug/Kg

TestAmerica
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MISCELLANEOUS DATA

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp3.i

Standards Codes:	Routine Maintenance Performed:	Date: 23-FEB-2010 14:53
	Cut & Cleaned: ( )	QC Batch: 100223IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
003F0301.D	CALIB_1	TOX1 G268	3	1	093905		
004F0401.D	CALIB_2	TOX2 G268	4	1	093905		
005F0501.D	CALIB_3	TOX3 G268	5	1	093905		
006F0601.D	CALIB_4	TOX4 G268	6	1	093905		
007F0701.D	CALIB_5	TOX5 G268	7	1	093905		

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp3.i

Standards Codes:	Routine Maintenance Performed:	Date: 08-MAR-2010 11:05
	Cut & Cleaned: ( )	QC Batch: 100308-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	PEM	PEM E006	2	1	093905		
005F0501.D	CCALIB_3	TOX3 G268	5	1	093905		
006F0601.D	CALIB_1	AB1 G250	6	1	093905		
007F0701.D	CALIB_2	AB2 G251	7	1	093905		
008F0801.D	CALIB_3	AB3 G252	8	1	093905		
010F1001.D	CALIB_5	AB5 G254	10	1	093905		
011F1101.D	CALIB_6	AB6 G255	11	1	093905		
013F1301.D	CALIB_4	AB4 G253	13	1	093905		
014F1401.D	CCALIB_3	ICV E048	14	1	093905		
015F1501.D	MRL	MRL	15	1	093905		
022F2201.D	LVOFHBLK	LVOFH1AA	22	1	093905		
023F2301.D	PEM	PEM E006	23	1	093905		
024F2401.D	CCALIB_3	AB3 G252	24	1	093905		
025F2501.D	MRL	MRL	25	1	093905		
026F2601.D	B12SS-038M-5040-SO	LVTQ31A8	26	2	093905		
027F2701.D	B12SS-038M-5040-SO	LVTQ31CD	27	2	093905		
028F2801.D	B12SS-038M-5040-SO	LVTQ31CE	28	2	093905		
029F2901.D	ATASS-015M-5036-SO	LVTT01AD	29	2	093905		
032F3201.D	LVOFHCHK	LVOFH1AC	32	1	093905		
035F3501.D	CCALIB_3	TOX3 G268	35	1	093905		
037F3701.D	CCALIB_3	AB3 G252	37	1	093905		
038F3801.D	MRL	MRL	38	1	093905		
054F5401.D	PEM	PEM E006	54	1	093905		

Witnessed By: Date: Page No. _____

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/17/2010
Time: 11:35:41

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
			_	_	computer batch: correct & Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 402608 Eric Mills

Concentrationist: 402608 Eric Mills
000123 Leslie Howell

Reviewer/Date: EARLES / 2/24/10

QC BATCH: 0054022

PREP DATE: 2/23/10
COMP DATE: 2/24/10

Pesticides (8081A)
SOXHLET (NONE,Na2SO4)
SW846 3540C

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/03/10	3/11/10	A0B180524-004 **LVVF1-1-AQ**	D	11	QJ	SOLID	30.01g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/04/10	3/12/10	A0B190524-013 **LVWX8-1-AE**	D	11	QJ	SOLID	30.17g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/04/10	3/12/10	A0B190524-003 **LVWXC-1-AQ**	D	11	QJ	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/04/10	3/12/10	A0B190524-010 **LVWX1-1-AE**	D	11	QJ	SOLID	30.16g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/03/10	3/10/10	A0B180429-012 **LVTT0-1-AD**	D	11	QJ	SOLID	30.1g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															

1226

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0054022

PREP DATE: 2/23/10
COMP DATE: 2/24/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/02/10	3/10/10	A0B180429-004 **LVTQ3-1-A8**	D	11	QJ	SOLID	30.06g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/02/10	3/10/10	A0B180429-004 **LVTQ3-1-CD S**	D	11	QJ	SOLID	30.08g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #4620 1ML 2/.2 #4621
COMMENTS:															
3/02/10	3/10/10	A0B180429-004 **LVTQ3-1-CE D**	D	11	QJ	SOLID	30.14g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #4620 1ML 2/.2 #4621
COMMENTS:															
3/04/10	3/12/10	A0B190524-002 **LVWW9-1-AE**	D	11	QJ	SOLID	30.08g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/02/10	0/0/0	A0B230000-022 **LV0FH-1-AC C**		11	QJ	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #4620 1ML 2/.2 #4621
COMMENTS:															
3/02/10	0/0/0	A0B230000-022 **LV0FH-1-AA B**		11	QJ	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/03/10	3/11/10	A0B180524-001 **LVVFK-1-AE**	D	11	QJ	SOLID	30.05g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/03/10	3/11/10	A0B180524-005 **LVVF6-1-AQ**	D	11	QJ	SOLID	30.16g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															

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North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0054022

PREP DATE: 2/23/10
COMP DATE: 2/24/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID

S/S EM,JS

DCM/ACE H44E16 NA2SO4 H35594 HEXANE H46E60

B025 ASSOC.SAMPLES AND BLK.W/0054023

NUMBER OF WORK ORDERS IN BATCH: 13

1228

Lot/SDG Number: **A0B180429**

Sample Control Chain of Custody - TAL North Canton
GC Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0B180429-004	LVTQ31A8	Pesticides (8081A)	02/23/10	Eric Mills	02/24/10	Steve Earle	03/08/10	Carolyn Van Doren
A0B180429-012	LVTT01AD	Pesticides (8081A)	02/23/10	Eric Mills	02/24/10	Steve Earle	03/08/10	Carolyn Van Doren

TestAmerica
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POLYCHLORINATED BIPHENYLS DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B180429

Extraction: XXA63QHWA

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	B12SS-038M-5040-SO	84	113	00
02	ATASS-015M-5036-SO	76	88	00
03	METHOD BLK. LV0FJ1AA	90	97	00
04	LCS LV0FJ1AC	85	99	00
05	ATASS-015M-5036-SO D	87	94	00
06	ATASS-015M-5036-SO S	73	90	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(40-140)
SRG02	= Decachlorobiphenyl	(60-125)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B230000 WO #: LV0FJ1AC
BATCH: 0054023

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	330	250	76	40- 140	
Aroclor 1260	330	290	87	60- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: ATASS-015M-5036-SO

Lot #: A0B180429 WO #: LVTT01CC
BATCH: 0054023

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aroclor 1016	340	ND	240	70	40- 140	
Aroclor 1260	340	ND	260	76	60- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: ATASS-015M-5036-SO

Lot #: A0B180429 WO #: LVTT01CD
BATCH: 0054023

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aroclor 1016	340	260	78	11	39	40- 140	
Aroclor 1260	340	270	81	6.4	33	60- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV0FJ1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

Lab File ID: 021F2101.

Matrix: SOLID

SDG Number:

Lot Number: A0B180429

Extraction Method:

Date Extracted: 02/23/10

Date Analyzed(1): 03/01/10

Date Analyzed(2): N/A

Time Analyzed(1): 13:20

Time Analyzed(2): N/A

Instrument ID(1): P13

Instrument ID(2): N/A

GC Column(1): PEST CLP1 ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #		DATE ANALYZED(1)	DATE ANALYZED(2)
01	B12SS-038M-5040-SO	LVTQ31A9		03/01/10	N/A
02	ATASS-015M-5036-SO	LVTT01AE		03/01/10	N/A
03	ATASS-015M-5036-SO	LVTT01CC	S	03/01/10	N/A
04	ATASS-015M-5036-SO	LVTT01CD	D	03/01/10	N/A
05	CHECK SAMPLE	LV0FJ1AC	C	03/01/10	N/A
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

COMMENTS:

FORM IV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

GC Semivolatiles

Lot-Sample #...: A0B180429-004 **Work Order #...:** LVTQ31A9 **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/01/10
Prep Batch #...: 0054023
Dilution Factor: 1 **Initial Wgt/Vol:** 30.06 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 1.9 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	34	ug/kg	21
Aroclor 1221	ND	34	ug/kg	16
Aroclor 1232	ND	34	ug/kg	14
Aroclor 1242	ND	34	ug/kg	13
Aroclor 1248	ND	34	ug/kg	17
Aroclor 1254	ND	34	ug/kg	17
Aroclor 1260	ND	34	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(40 - 140)
Decachlorobiphenyl	113	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\009F0901.D
Report Date: 02-Mar-2010 08:05

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\009F0901.D
Lab Smp Id: LVTQ31A9 Client Smp ID: B12SS-038M-5040-SO
Inj Date : 01-MAR-2010 10:22
Operator : Inst ID: a2hp13.i
Smp Info : LVTQ31A9
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 02-Mar-2010 07:21 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.060	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.161	1.163	-0.002	2075784	0.01671	5.558		
2 AROCLOR-1221					CAS #: 11104-28-2		
Compound Not Detected							
3 AROCLOR-1016					CAS #: 12674-11-2		
Compound Not Detected							
4 AROCLOR-1232					CAS #: 11141-16-5		
Compound Not Detected							

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\009F0901.D
Report Date: 02-Mar-2010 08:05

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

---

6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Compound Not Detected

---

8 AROCLOR-1260 CAS #: 11096-82-5

Compound Not Detected

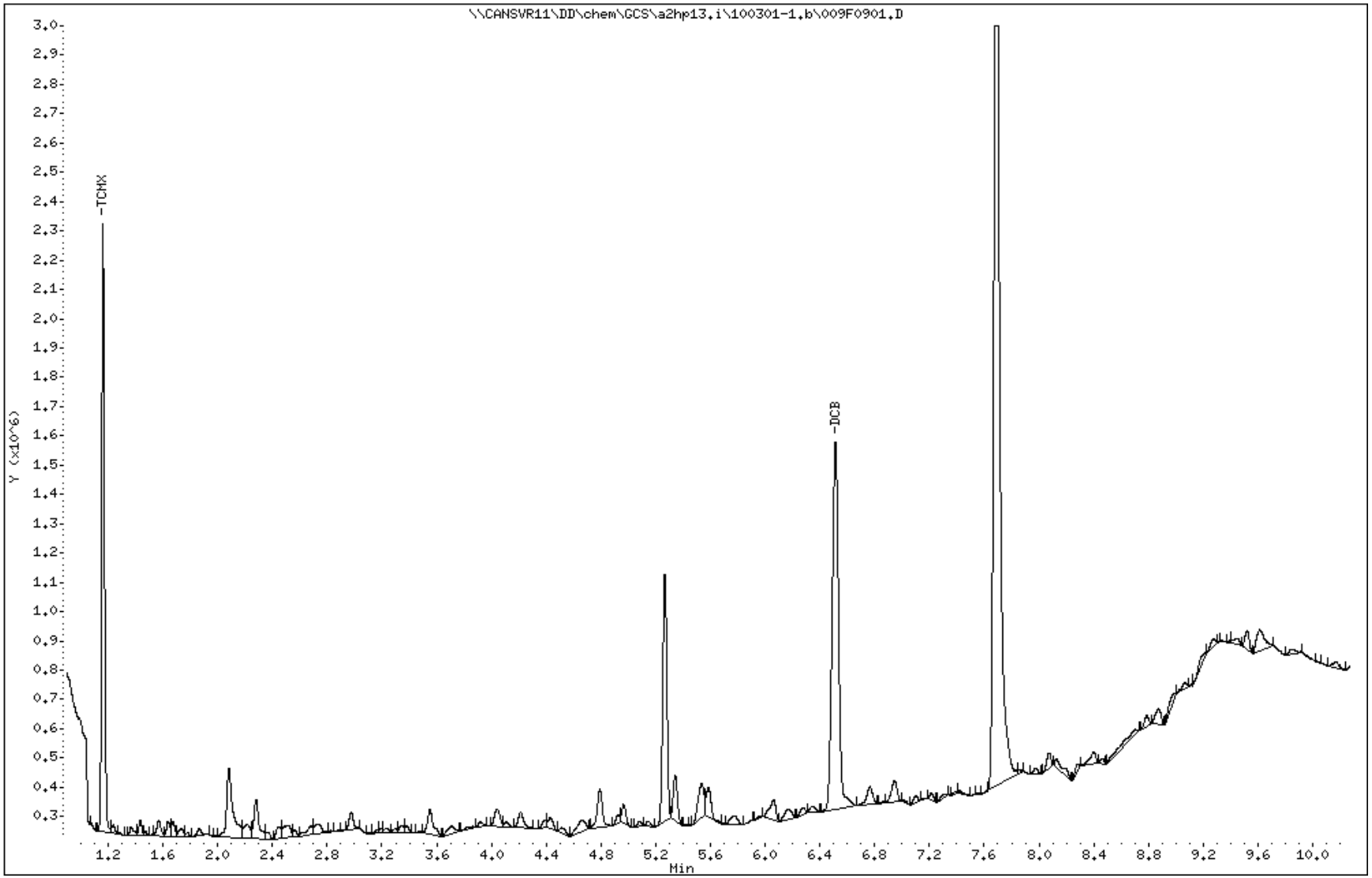
M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

$ 9 DCB CAS #: 2051-24-3

6.514 6.519 -0.005 1255230 0.02263 7.528

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\009F0901.D
Date : 01-MAR-2010 10:22
Client ID: B12SS-038M-5040-SO
Instrument: a2hp13.i
Sample Info: LVTQ31A9
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

GC Semivolatiles

Lot-Sample #...: A0B180429-012 **Work Order #...:** LVTT01AE **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/01/10
Prep Batch #...: 0054023
Dilution Factor: 1 **Initial Wgt/Vol:** 30.1 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 1.9 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	34	ug/kg	21
Aroclor 1221	ND	34	ug/kg	16
Aroclor 1232	ND	34	ug/kg	14
Aroclor 1242	ND	34	ug/kg	13
Aroclor 1248	ND	34	ug/kg	17
Aroclor 1254	ND	34	ug/kg	17
Aroclor 1260	ND	34	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(40 - 140)
Decachlorobiphenyl	88	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\010F1001.D
Lab Smp Id: LVTT01AE Client Smp ID: ATASS-015M-5036-SO
Inj Date : 01-MAR-2010 10:36
Operator : Inst ID: a2hp13.i
Smp Info : LVTT01AE
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 01-Mar-2010 09:59 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.100	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.148	0.014	1878660	0.01512	5.024		

2 AROCLOR-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

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6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Compound Not Detected

---

8 AROCLOR-1260 CAS #: 11096-82-5

Compound Not Detected

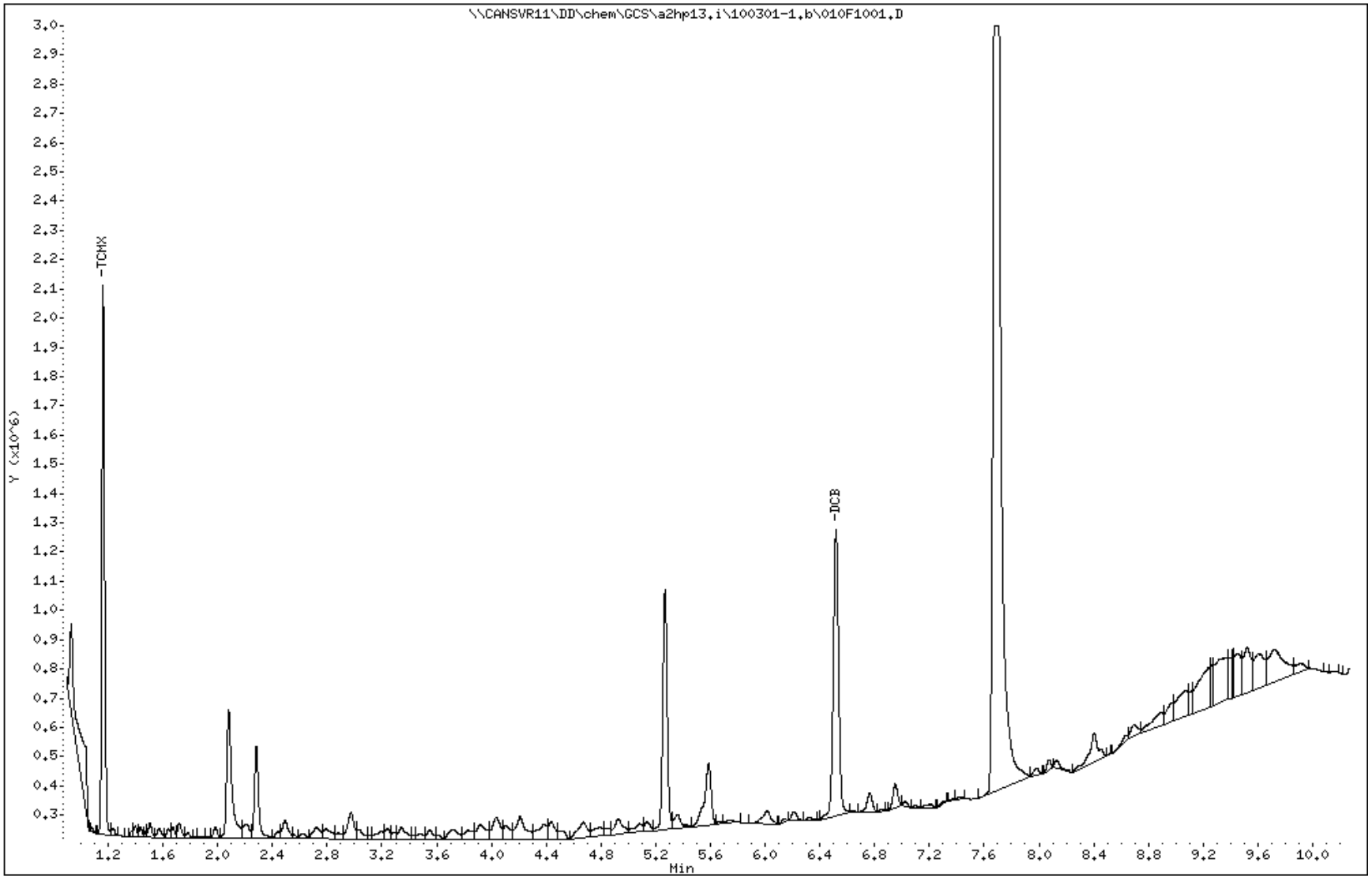
M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

$ 9 DCB CAS #: 2051-24-3

6.516	6.511	0.005	979716	0.01766	5.868		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\010F1001.D
Date : 01-MAR-2010 10:36
Client ID: ATASS-015M-5036-SO
Instrument: a2hp13.i
Sample Info: LVTT01AE
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 09-Feb-2010 07:53

Calibration History

Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Start Cal Date: 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
09-FEB-2010 01:06	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
08-FEB-2010 23:37	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
08-FEB-2010 22:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
08-FEB-2010 20:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
08-FEB-2010 19:06	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
08-FEB-2010 17:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
08-FEB-2010 16:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Cal Level: 2 , Cal Amount: 0.10000		
09-FEB-2010 01:21	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
08-FEB-2010 23:52	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
08-FEB-2010 22:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
08-FEB-2010 20:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
08-FEB-2010 19:21	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
08-FEB-2010 17:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
08-FEB-2010 16:21	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Cal Level: 3 , Cal Amount: 0.20000		
09-FEB-2010 01:37	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
09-FEB-2010 00:06	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
08-FEB-2010 22:36	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
08-FEB-2010 21:07	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
08-FEB-2010 19:36	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D

08-FEB-2010 18:06	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
08-FEB-2010 16:36	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D

Cal Level: 4 , Cal Amount: 0.50000		
09-FEB-2010 01:52	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
09-FEB-2010 00:21	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
08-FEB-2010 22:52	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
08-FEB-2010 21:21	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
08-FEB-2010 19:51	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
08-FEB-2010 18:22	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
08-FEB-2010 16:51	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D

Cal Level: 5 , Cal Amount: 1.00000		
09-FEB-2010 02:07	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
09-FEB-2010 00:36	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
08-FEB-2010 23:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
08-FEB-2010 21:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
08-FEB-2010 20:07	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
08-FEB-2010 18:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
08-FEB-2010 17:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D

Cal Level: 6 , Cal Amount: 2.00000		
09-FEB-2010 02:22	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
09-FEB-2010 00:51	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
08-FEB-2010 23:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
08-FEB-2010 21:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
08-FEB-2010 20:22	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
08-FEB-2010 18:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
08-FEB-2010 17:22	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Report Date : 09-Feb-2010 07:53

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Last Edit : 09-Feb-2010 07:52 hassl
Curve Type : Average

Calibration File Names:
Level 1: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Level 2: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Level 3: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Level 4: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Level 5: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Level 6: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D

Compound	0.05000 Level 1	0.10000 Level 2	0.20000 Level 3	0.50000 Level 4	1.000 Level 5	2.000 Level 6	___ RRF	% RSD
2 AROCLOR-1221(1)	1306940	1261280	1179165	1169896	989175	909796	1136042	13.674
(2)	848240	794010	784965	774110	668032	639907	751544	10.681
(3)	2901680	2862920	2673915	2559794	2174478	1945211	2519666	15.251
3 AROCLOR-1016(1)	4106480	3975500	3727870	3409518	3191408	2928167	3556491	12.929
(2)	7038600	6687300	6384465	6001140	5678041	5137023	6154428	11.267
(3)	14025840	13815520	13470015	13072122	12630703	10858982	12978864	8.893
(4)	5729340	5459910	5452295	5333418	5176357	4804463	5325964	5.884
(5)	5725180	5578090	5260970	5267902	5179034	4809780	5303493	6.055
4 AROCLOR-1232(1)	4150880	4107690	3843030	3594492	3487449	3112055	3715933	10.700
(2)	3168460	3401350	2934240	2696426	2717869	2409100	2887908	12.382
(3)	6047640	7023220	5583235	5218464	5054049	4703976	5605097	14.868
(4)	2247740	2394600	2167130	2096476	2210230	2010983	2187860	6.025
(5)	2239020	3020540	2058190	1892622	2012566	1847953	2178482	19.963
5 AROCLOR-1242(1)	3059460	3058220	2813060	2663436	2414223	2236483	2707480	12.447
(2)	5623480	5399410	5129105	4905296	4430570	4035099	4920493	12.164
(3)	11459840	10127500	9710045	9885966	9438043	8448522	9844986	9.976
(4)	4461940	4312190	4099605	4303376	3887106	3695834	4126675	7.038
(5)	4621020	4384980	4003575	4329668	3860688	3716228	4152693	8.360
6 AROCLOR-1248(1)	1454000	1420260	1370060	1274220	1169565	1086400	1295751	11.252
(2)	3010900	2790060	2820630	2659656	2569180	2369471	2703316	8.226
(3)	3202040	2933820	2928695	2752738	2628508	2366817	2802103	10.286
(4)	2403200	2197730	2249250	2094066	2089068	1918367	2158613	7.648
(5)	1482160	1424600	1450795	1319634	1353246	1245505	1379323	6.475
7 AROCLOR-1254(1)	2716440	2528470	2332960	2201306	2139507	1996557	2319207	11.442
(2)	3571720	3326230	3062695	2881644	2809567	2601374	3042205	11.721
(3)	4620300	4376080	4095535	3876656	3849058	3674586	4082036	8.757
(4)	3123100	3067400	2852090	2632426	2649791	2582812	2817937	8.315
(5)	3726220	3674840	3472475	3160374	3181404	3086601	3383652	8.244

Report Date : 09-Feb-2010 07:53

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Last Edit : 09-Feb-2010 07:52 hassl
Curve Type : Average

Compound	0.05000 Level 1	0.10000 Level 2	0.20000 Level 3	0.50000 Level 4	1.000 Level 5	2.000 Level 6	___ RRF	% RSD	
8 AROCLOR-1260 (1)	3216600	3314960	3014060	3008766	2930328	2625282	3018333	7.974	
(2)	4469260	4635280	4267265	4196426	4152767	3637914	4226485	8.062	
(3)	3947260	4191690	3889460	3841998	3851293	3383380	3850847	6.827	
(4)	5717600	6183230	6008290	5841704	5808119	4984962	5757318	7.171	
(5)	3057940	3341190	3178210	3083408	3085732	2652223	3066451	7.441	
13 AROCLOR-1262 (1)	2645180	2546250	2456525	2267548	2088075	2101119	2350783	9.964	
(2)	3506460	3367880	3198265	2990014	2796289	2804869	3110629	9.508	
(3)	4060880	3916100	3752905	3497380	3287716	3277441	3632070	9.062	
(4)	6888620	6801320	6569130	6292972	5871569	5904541	6388025	6.873	
(5)	2712680	2535220	2453775	2366522	2235996	2266865	2428510	7.362	
14 AROCLOR-1268 (1)	9211780	8938980	8022590	8722446	8455422	7663883	8502517	6.813	
(2)	8526060	8388300	7599130	8268058	8025460	7263962	8011828	6.119	
(3)	7014100	6818040	6152720	6789050	6622531	6048634	6574179	5.912	
(4)	3030600	3000890	2575970	2866612	2907263	2571629	2825494	7.217	
(5)	22033560	21701080	18770780	20305356	20048105	17711797	20095113	8.272	
M 15 TOTAL PCB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 1 TCMX	148213600	122641000	128687500	117843000	115503980	112511980	124233510	10.507	
$ 9 DCB	57004000	62043200	60081600	54615440	54969080	44117220	55471757	11.307	

TestAmerica North Canton

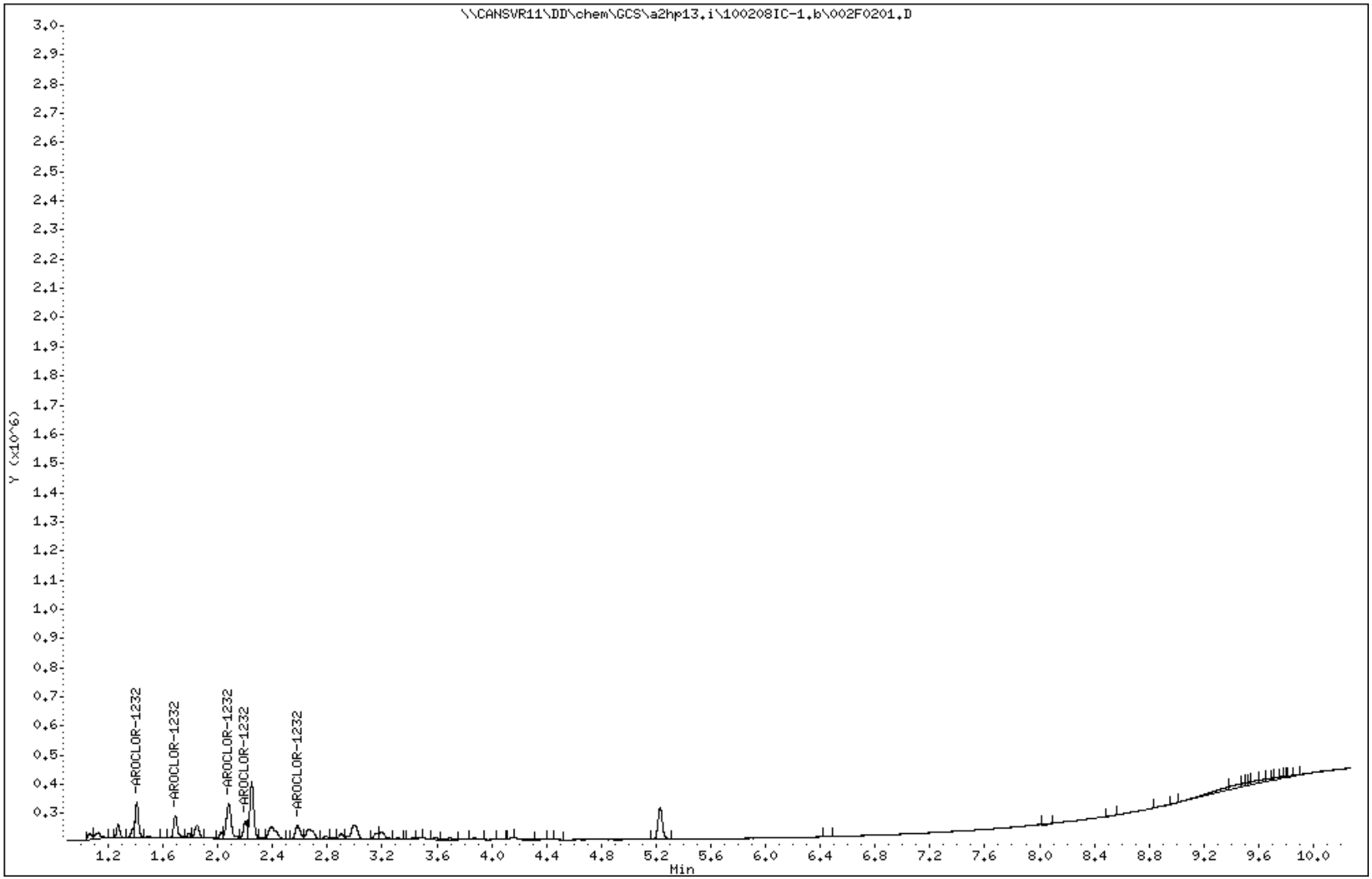
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:06
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,1
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	207544	0.05000	0.05454	75.00- 125.00	100.00
1.689	1.691	-0.002	158423	0.05000	0.05486	56.26- 93.77	76.33
2.079	2.083	-0.004	302382	0.05000	0.05395	108.88- 181.47	145.70
2.201	2.203	-0.002	112387	0.05000	0.05137	43.74- 72.91	54.15
2.582	2.584	-0.002	111951	0.05000	0.05139	39.49- 65.82	53.94
		Average of Peak Amounts =			0.05322		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Date : 08-FEB-2010 16:06
Client ID:
Sample Info: 1232,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

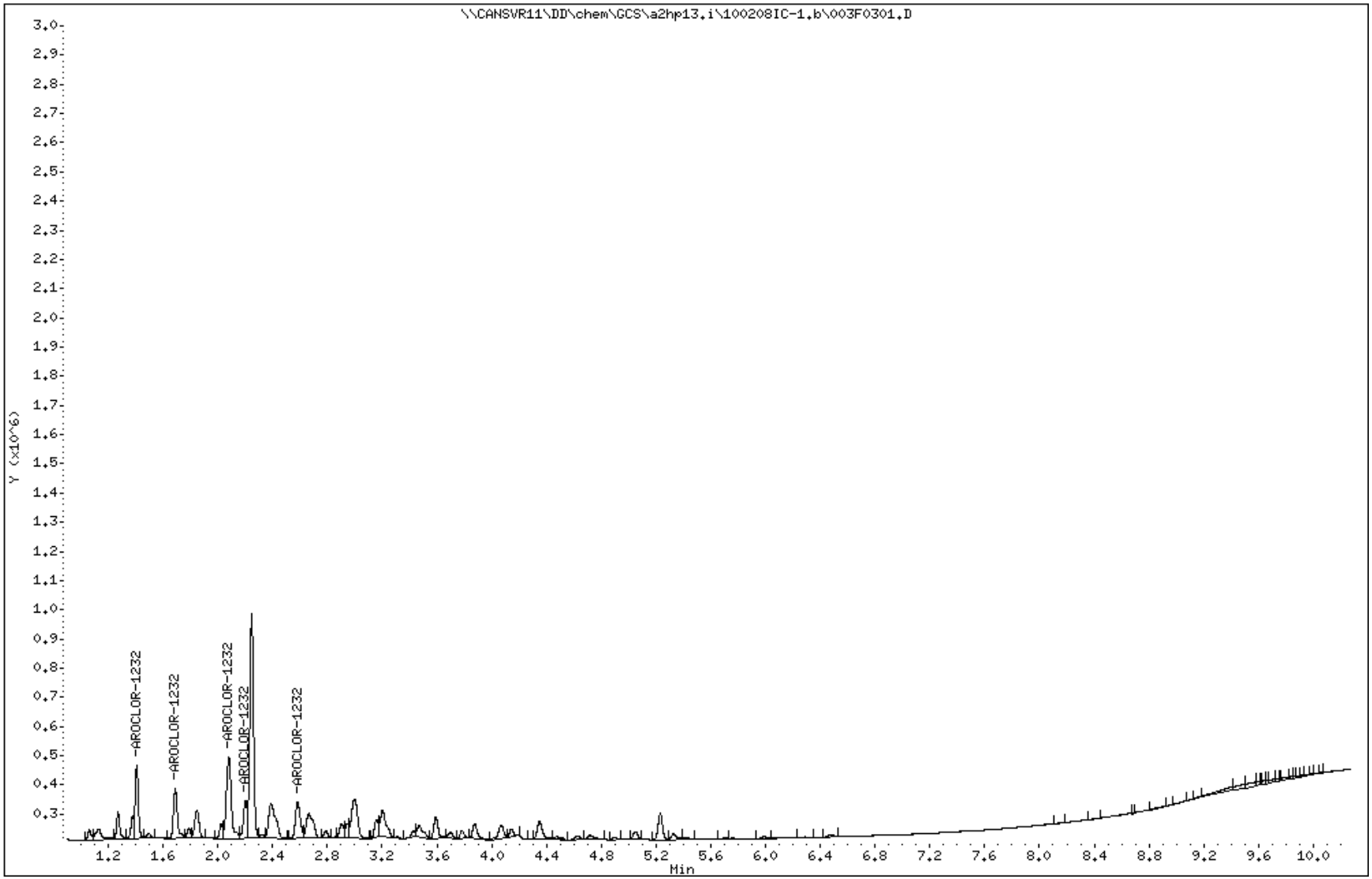
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:21
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,2
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	410769	0.10000	0.1080	75.00- 125.00	100.00
1.688	1.691	-0.003	340135	0.10000	0.1178	56.26- 93.77	82.80
2.080	2.083	-0.003	702322	0.10000	0.1253	108.88- 181.47	170.98
2.201	2.203	-0.002	239460	0.10000	0.1094	43.74- 72.91	58.30
2.583	2.584	-0.001	302054	0.10000	0.1386	39.49- 65.82	73.53
		Average of Peak Amounts =			0.11982		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Date : 08-FEB-2010 16:21
Client ID:
Sample Info: 1232,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

PCB 8082/608

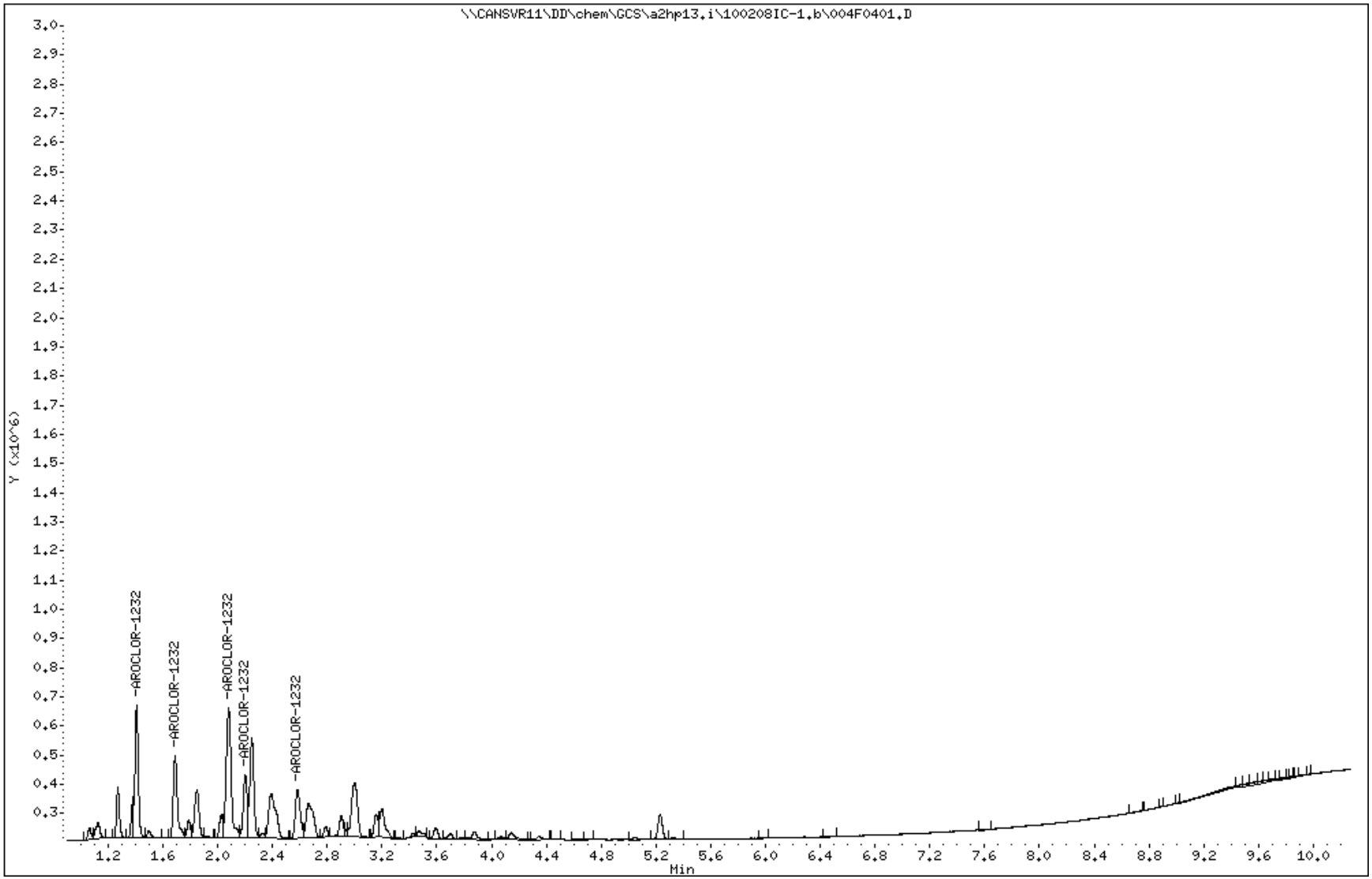
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:36
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,3
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.407	1.410	-0.003	768606	0.20000	0.2020	75.00- 125.00	100.00
1.688	1.691	-0.003	586848	0.20000	0.2032	56.26- 93.77	76.35
2.079	2.083	-0.004	1116647	0.20000	0.1992	108.88- 181.47	145.28
2.199	2.203	-0.004	433426	0.20000	0.1981	43.74- 72.91	56.39
2.580	2.584	-0.004	411638	0.20000	0.1890	39.49- 65.82	53.56
		Average of Peak Amounts =			0.19830		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D
Date : 08-FEB-2010 16:36
Client ID:
Sample Info: 1232,,1,3

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

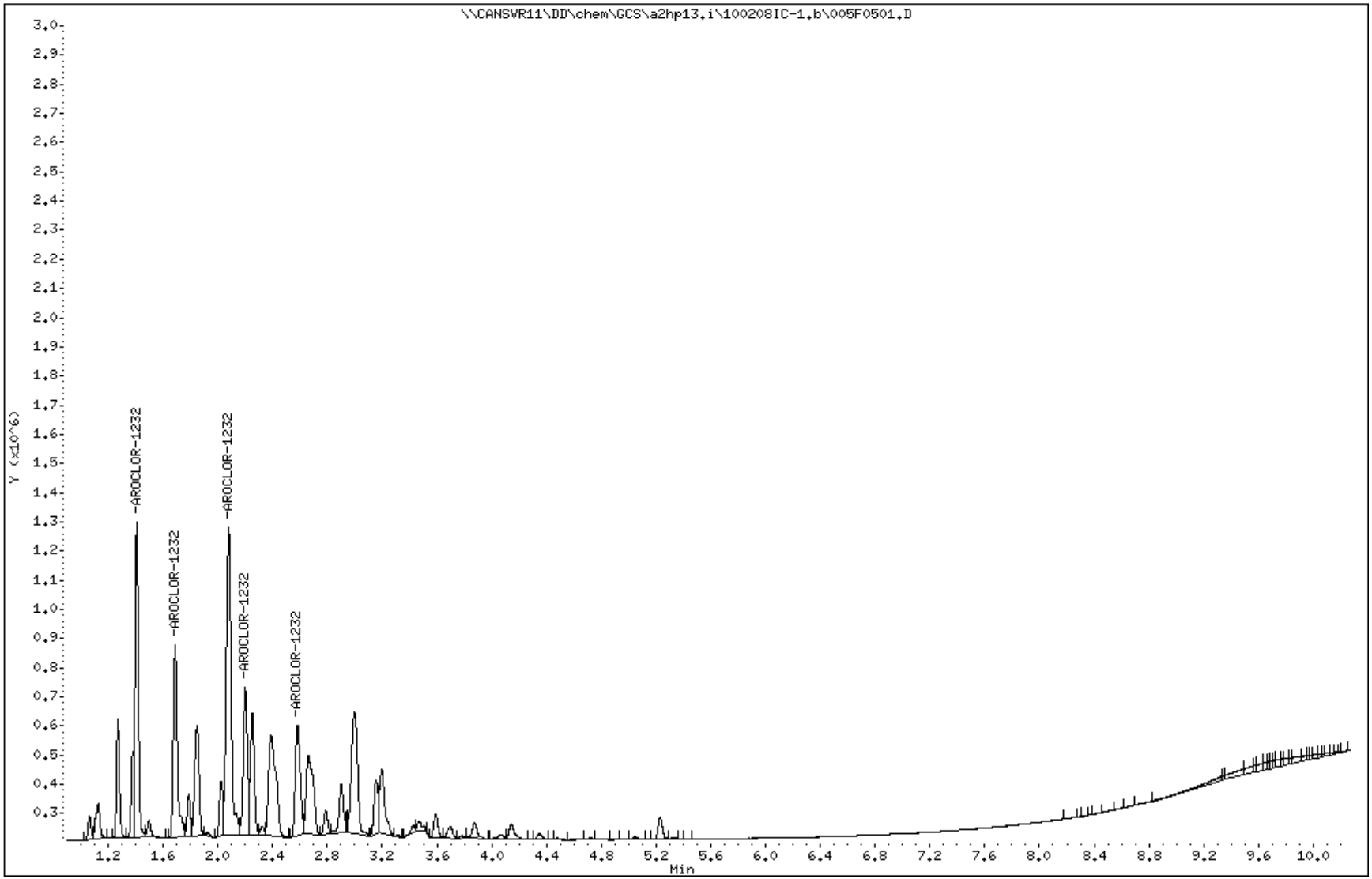
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:51
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,4
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.407	1.410	-0.003	1797246	0.50000	0.4723	75.00- 125.00	100.00
1.687	1.691	-0.004	1348213	0.50000	0.4668	56.26- 93.77	75.02
2.079	2.083	-0.004	2609232	0.50000	0.4655	108.88- 181.47	145.18
2.199	2.203	-0.004	1048238	0.50000	0.4791	43.74- 72.91	58.32
2.580	2.584	-0.004	946311	0.50000	0.4344	39.49- 65.82	52.65
		Average of Peak Amounts =			0.46362		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D
Date : 08-FEB-2010 16:51
Client ID:
Sample Info: 1232,,1,4
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

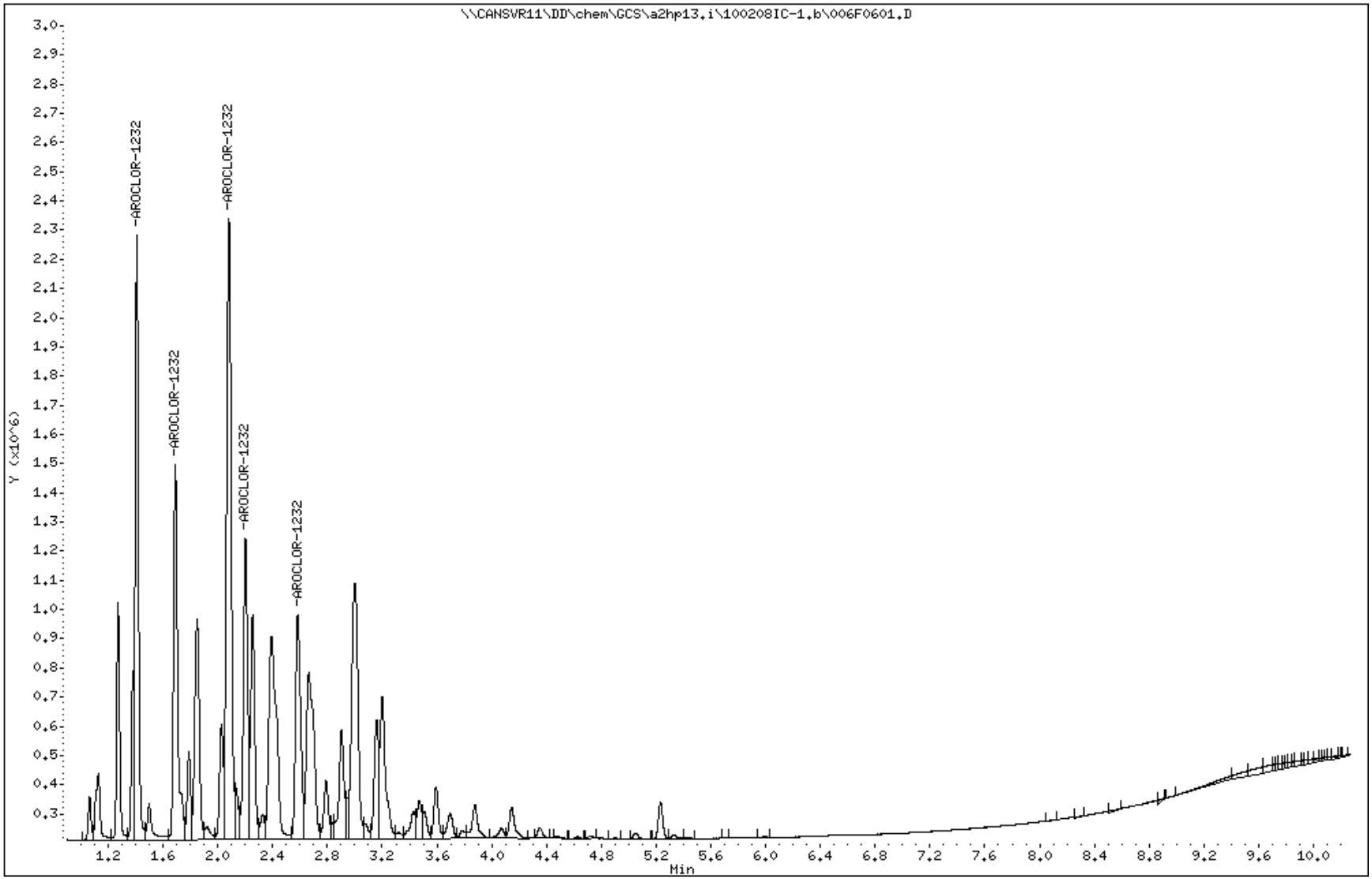
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 17:06
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,5
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	3487449	1.00000	0.9165	75.00- 125.00	100.00
1.689	1.691	-0.002	2717869	1.00000	0.9411	56.26- 93.77	77.93
2.081	2.083	-0.002	5054049	1.00000	0.9017	108.88- 181.47	144.92
2.201	2.203	-0.002	2210230	1.00000	1.010	43.74- 72.91	63.38
2.582	2.584	-0.002	2012566	1.00000	0.9238	39.49- 65.82	57.71
		Average of Peak Amounts =			0.93862		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D
Date : 08-FEB-2010 17:06
Client ID:
Sample Info: 1232,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 17:22
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,6
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

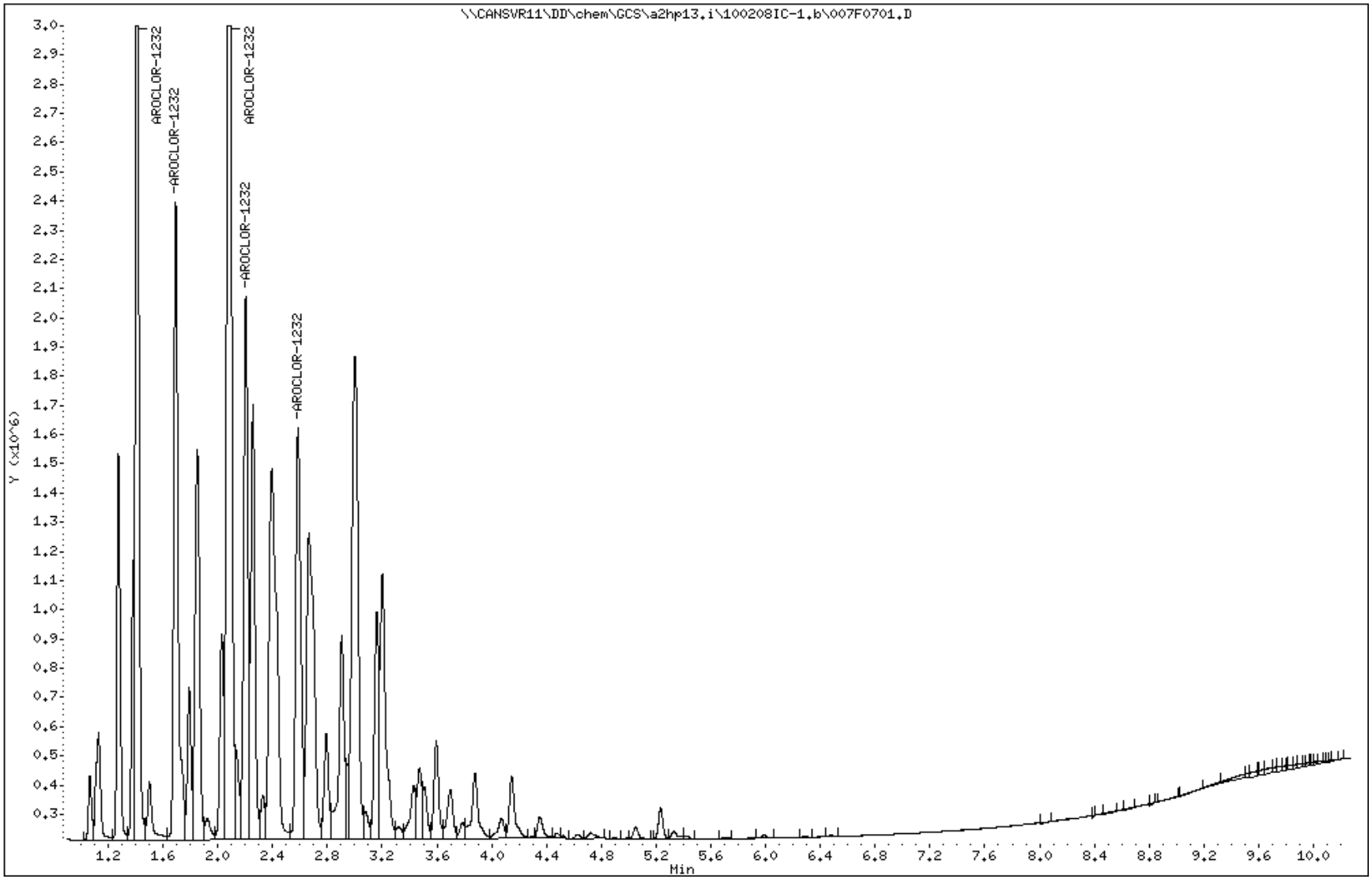
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.410	1.410	0.000	6224110	2.00000	1.675	75.00- 125.00	100.00(M)
1.691	1.691	0.000	4818200	2.00000	1.668	56.26- 93.77	77.41
2.083	2.083	0.000	9407952	2.00000	1.678	108.88- 181.47	151.15
2.203	2.203	0.000	4021965	2.00000	1.838	43.74- 72.91	64.62
2.584	2.584	0.000	3695905	2.00000	1.696	39.49- 65.82	59.38
Average of Peak Amounts =					1.71100		

QC Flag Legend

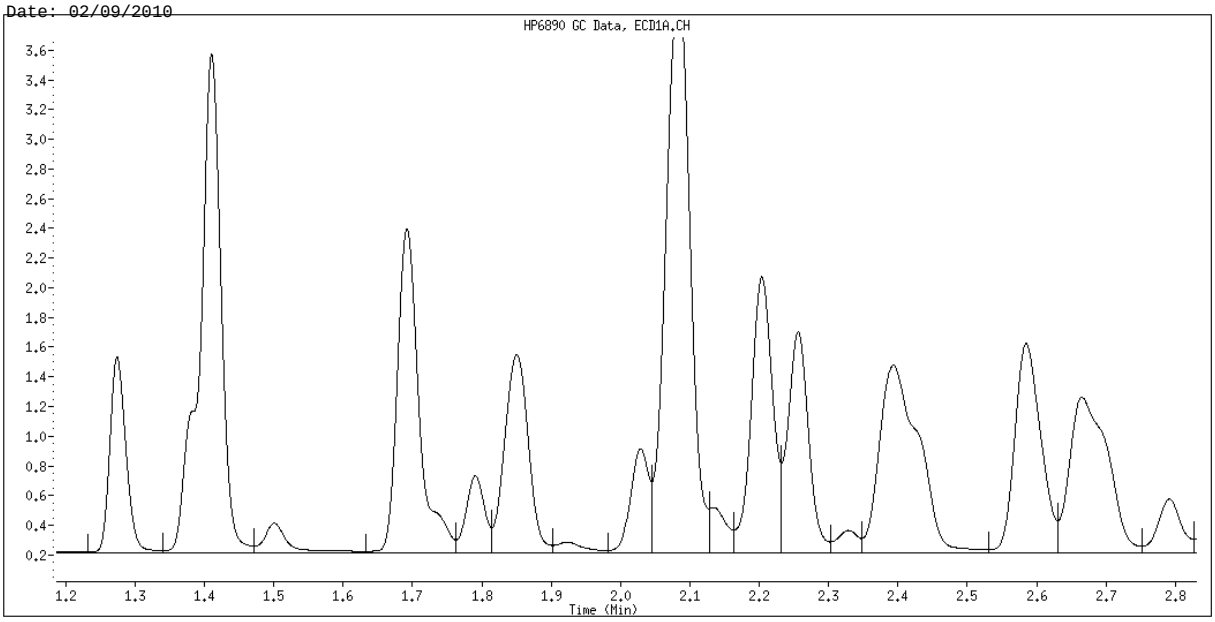
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D
Date : 08-FEB-2010 17:22
Client ID:
Sample Info: 1232,,1,6

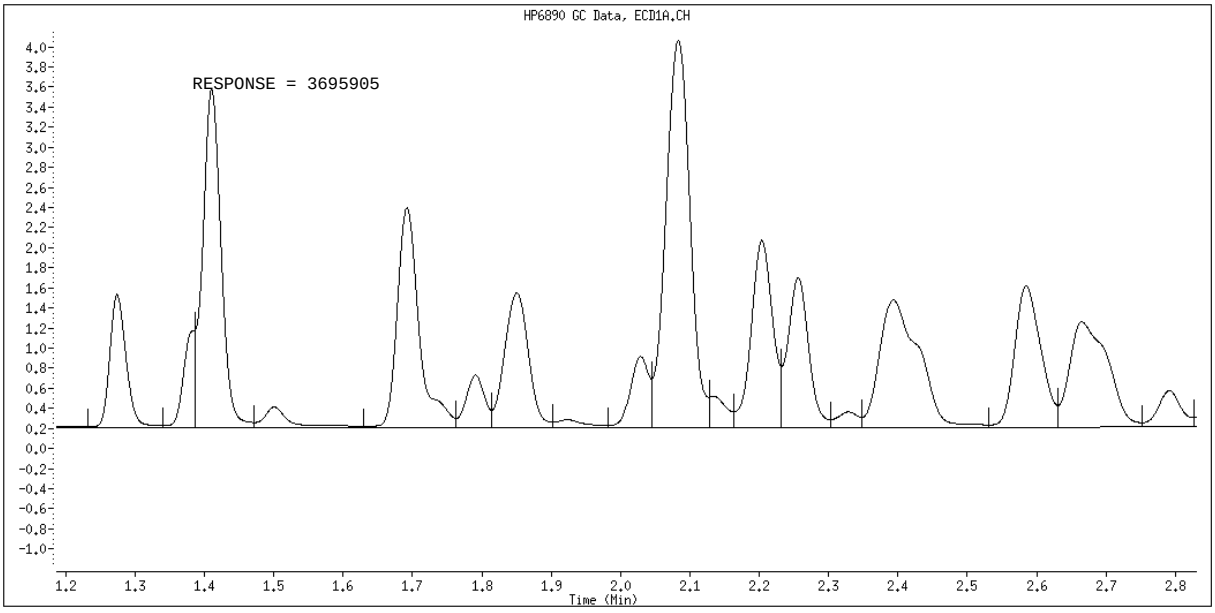
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 007F0701.D
Inj. Date and Time: 08-FEB-2010 17:22
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1232
CAS #: 11141-16-5
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

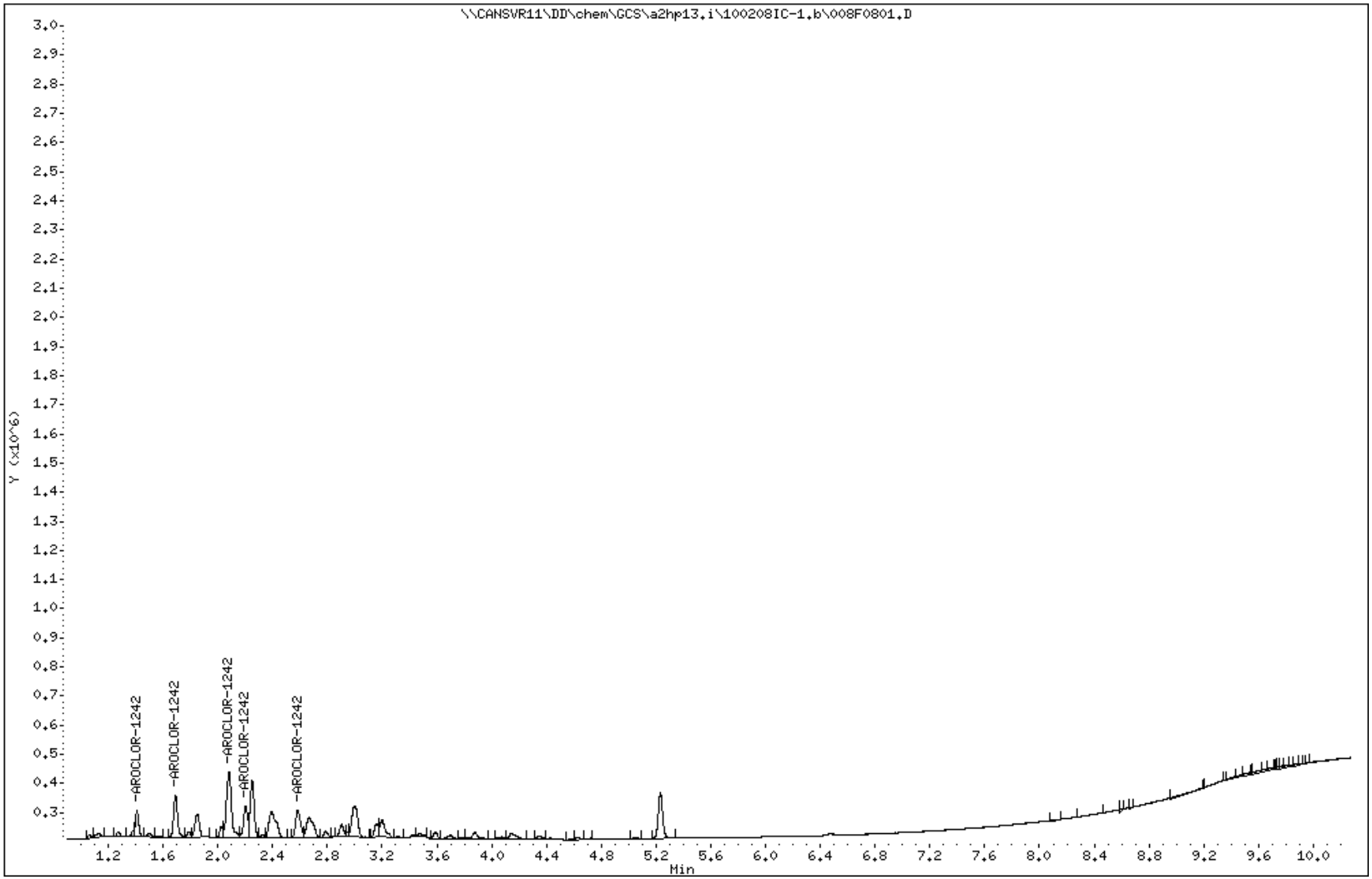
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 17:37
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,1
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	152973	0.05000	0.05535	75.00- 125.00	100.00
1.690	1.691	-0.001	281174	0.05000	0.05714	138.13- 230.21	183.81
2.081	2.082	-0.001	572992	0.05000	0.05820	278.38- 463.97	374.57
2.201	2.202	-0.001	223097	0.05000	0.05406	121.18- 201.97	145.84
2.583	2.584	-0.001	231051	0.05000	0.05564	121.92- 203.20	151.04
		Average of Peak Amounts =			0.05608		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
Date : 08-FEB-2010 17:37
Client ID:
Sample Info: 1242,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

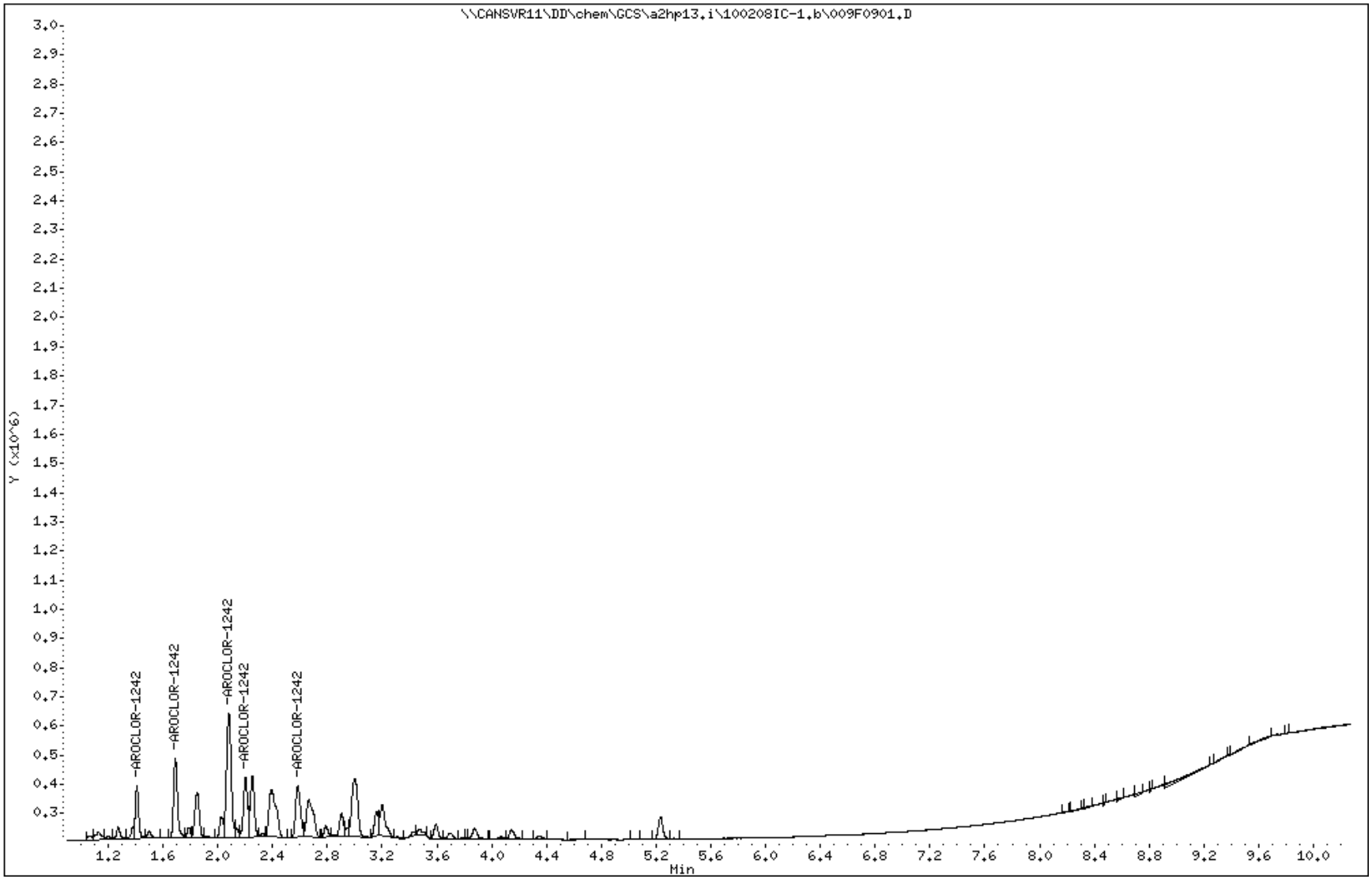
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 17:51
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,2
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	305822	0.10000	0.1106	75.00- 125.00	100.00
1.689	1.691	-0.002	539941	0.10000	0.1097	138.13- 230.21	176.55
2.080	2.082	-0.002	1012750	0.10000	0.1029	278.38- 463.97	331.16
2.201	2.202	-0.001	431219	0.10000	0.1045	121.18- 201.97	141.00
2.583	2.584	-0.001	438498	0.10000	0.1056	121.92- 203.20	143.38
		Average of Peak Amounts =			0.10666		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
Date : 08-FEB-2010 17:51
Client ID:
Sample Info: 1242,,1,2
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

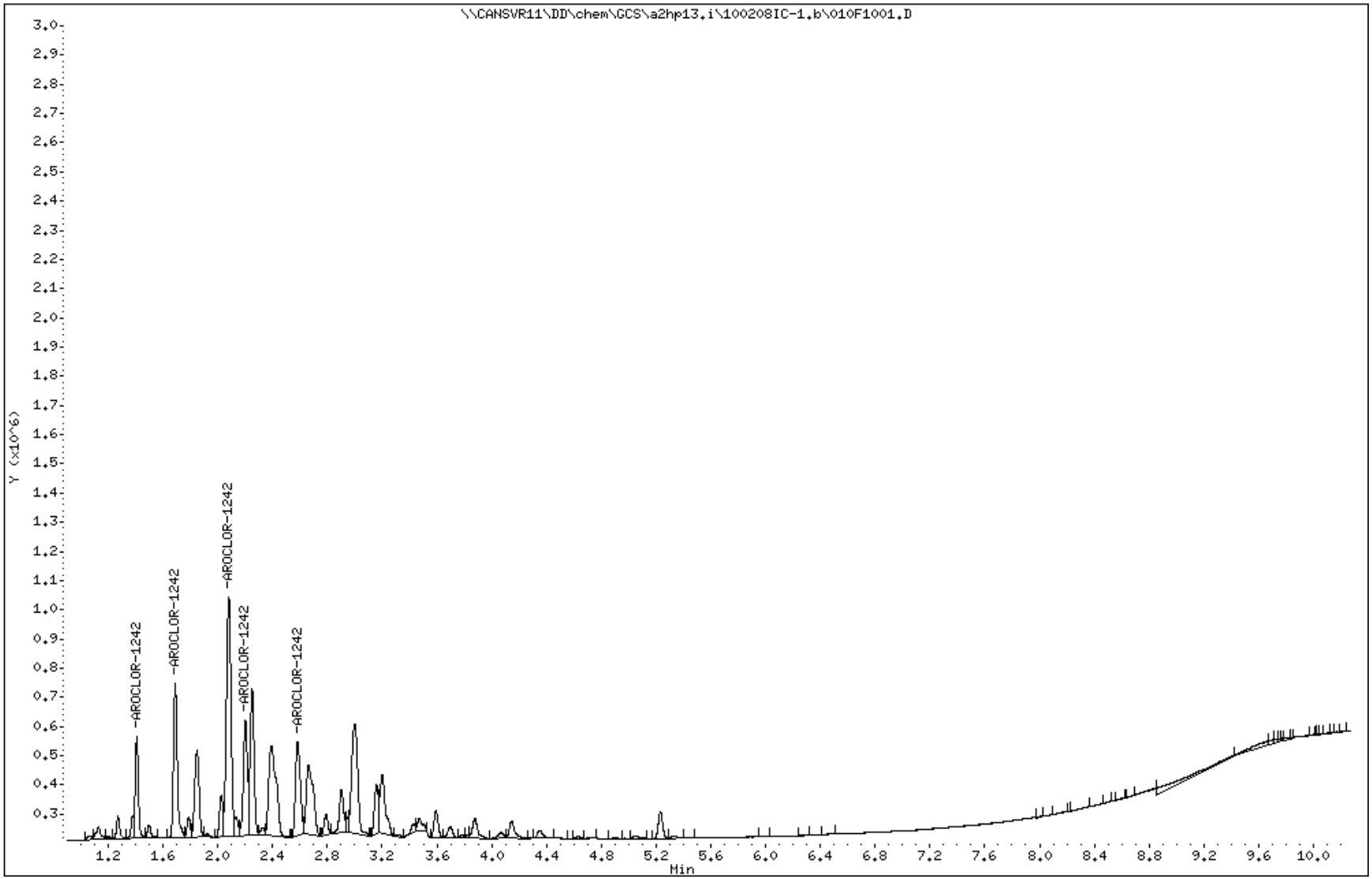
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:06
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,3
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	562612	0.20000	0.2036	75.00- 125.00	100.00
1.689	1.691	-0.002	1025821	0.20000	0.2085	138.13- 230.21	182.33
2.079	2.082	-0.003	1942009	0.20000	0.1972	278.38- 463.97	345.18
2.201	2.202	-0.001	819921	0.20000	0.1987	121.18- 201.97	145.73
2.582	2.584	-0.002	800715	0.20000	0.1928	121.92- 203.20	142.32
		Average of Peak Amounts =			0.20016		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
Date : 08-FEB-2010 18:06
Client ID:
Sample Info: 1242,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

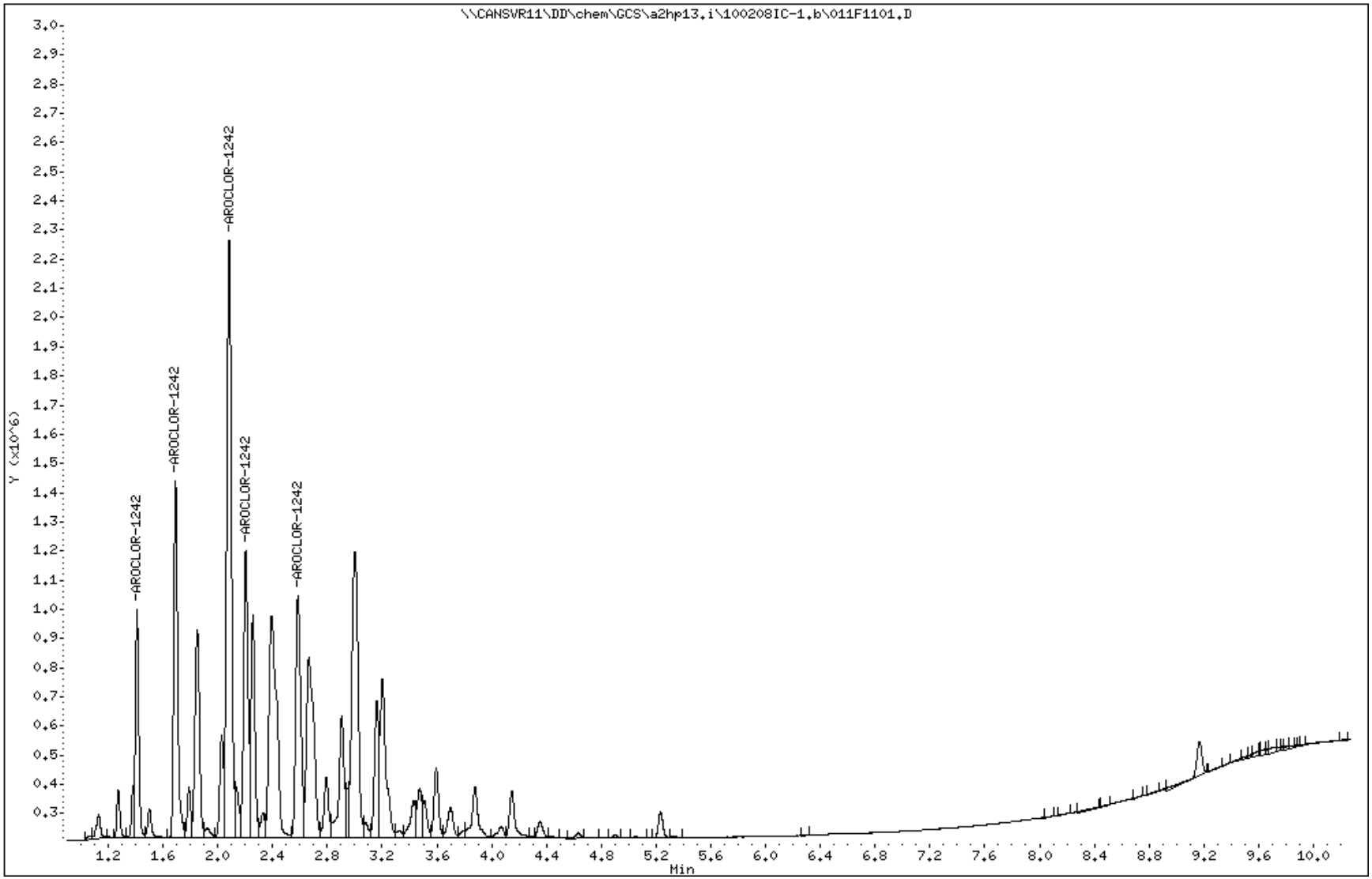
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:22
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,4
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.409	1.410	-0.001	1331718	0.50000	0.4919	75.00- 125.00	100.00
1.691	1.691	0.000	2452648	0.50000	0.4984	138.13- 230.21	184.17
2.083	2.082	0.001	4942983	0.50000	0.5021	278.38- 463.97	371.17
2.204	2.202	0.002	2151688	0.50000	0.5214	121.18- 201.97	161.57
2.584	2.584	0.000	2164834	0.50000	0.5213	121.92- 203.20	162.56
		Average of Peak Amounts =			0.50702		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
Date : 08-FEB-2010 18:22
Client ID:
Sample Info: 1242,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

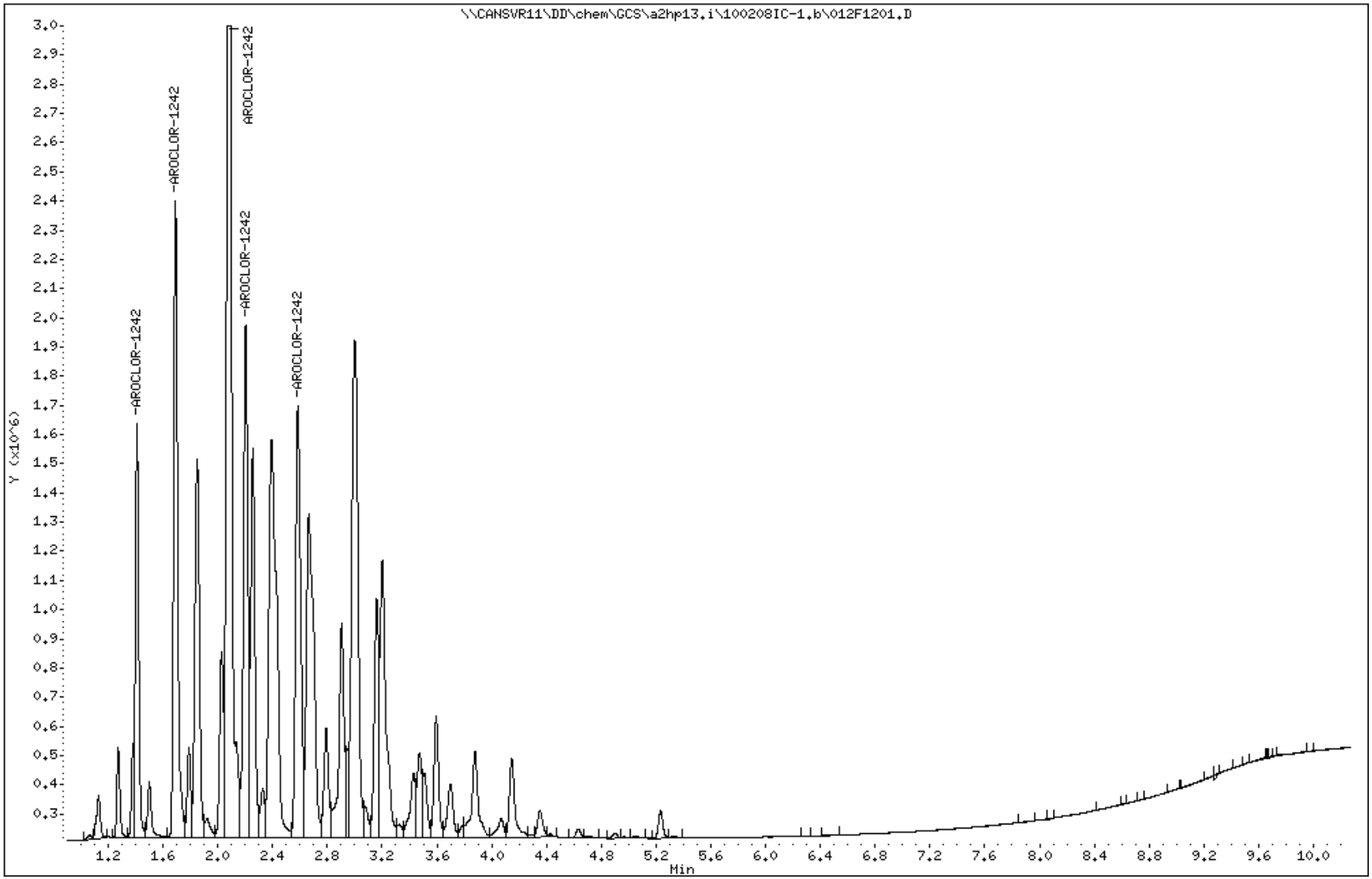
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:37
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,5
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.409	1.410	-0.001	2414223	1.00000	0.8917	75.00- 125.00	100.00
1.690	1.691	-0.001	4430570	1.00000	0.9004	138.13- 230.21	183.52
2.082	2.082	0.000	9438043	1.00000	0.9587	278.38- 463.97	390.94
2.202	2.202	0.000	3887106	1.00000	0.9419	121.18- 201.97	161.01
2.583	2.584	-0.001	3860688	1.00000	0.9297	121.92- 203.20	159.91
Average of Peak Amounts =					0.92448		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
Date : 08-FEB-2010 18:37
Client ID:
Sample Info: 1242,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:51
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,6
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

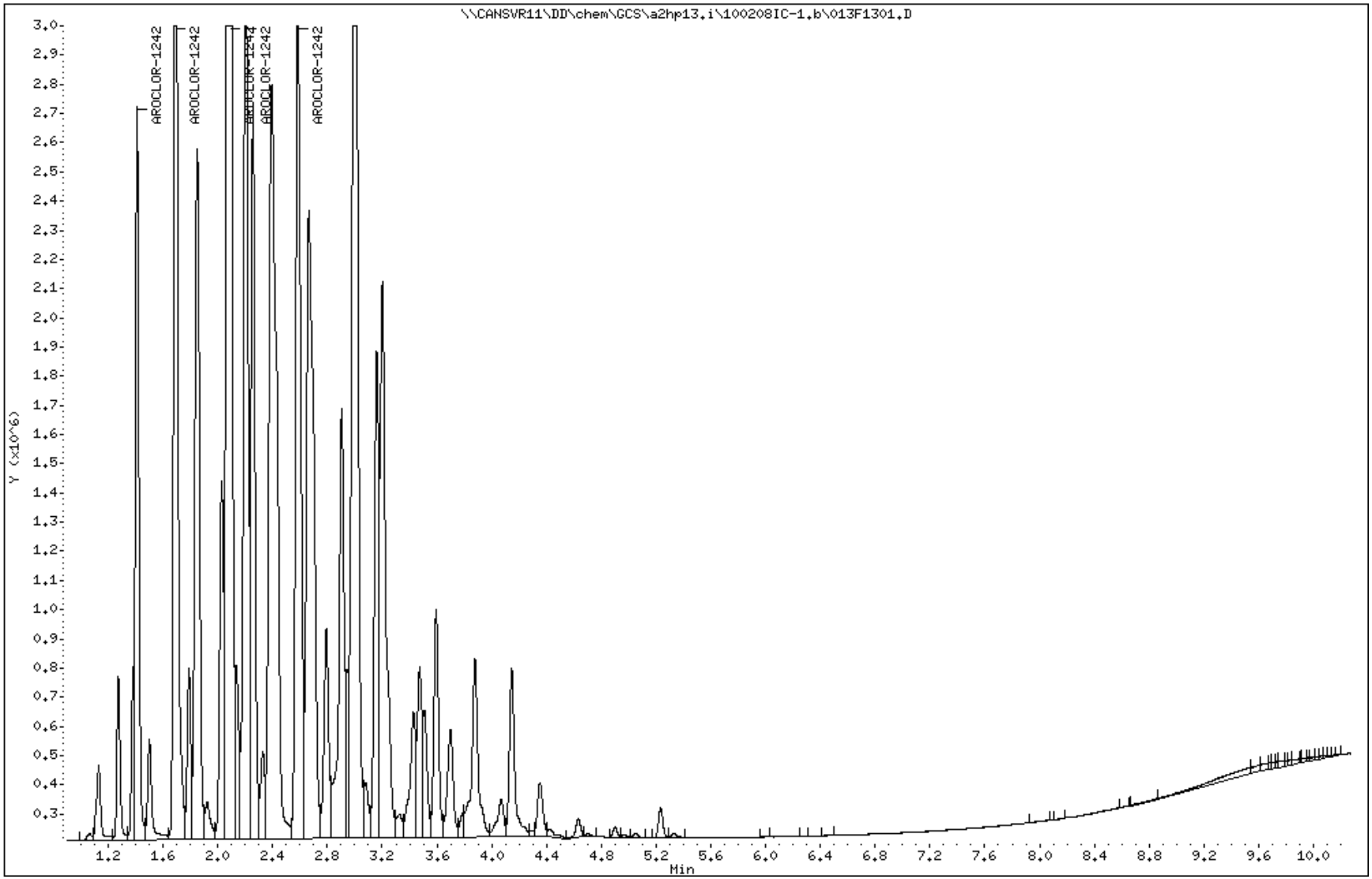
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.410	1.410	0.000	4472965	2.00000	1.652	75.00- 125.00	100.00(M)
1.691	1.691	0.000	8070198	2.00000	1.640	138.13- 230.21	180.42
2.082	2.082	0.000	16897043	2.00000	1.716	278.38- 463.97	377.76
2.202	2.202	0.000	7391668	2.00000	1.791	121.18- 201.97	165.25
2.584	2.584	0.000	7432456	2.00000	1.790	121.92- 203.20	166.16
		Average of Peak Amounts =			1.71780		

QC Flag Legend

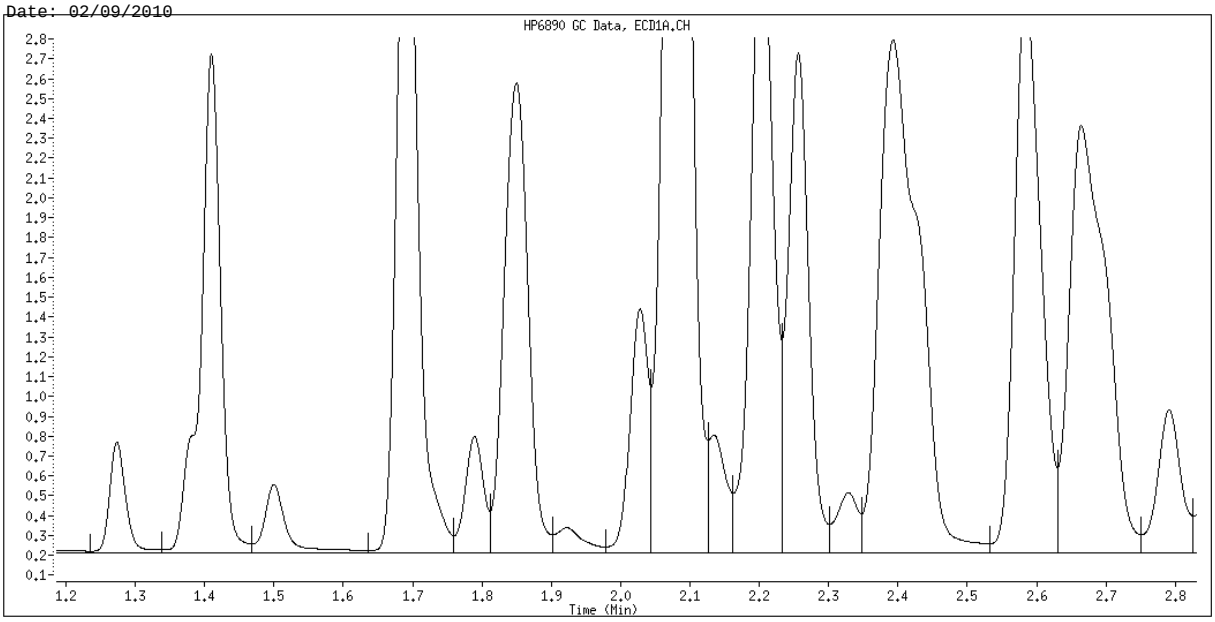
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
Date : 08-FEB-2010 18:51
Client ID:
Sample Info: 1242,,1,6

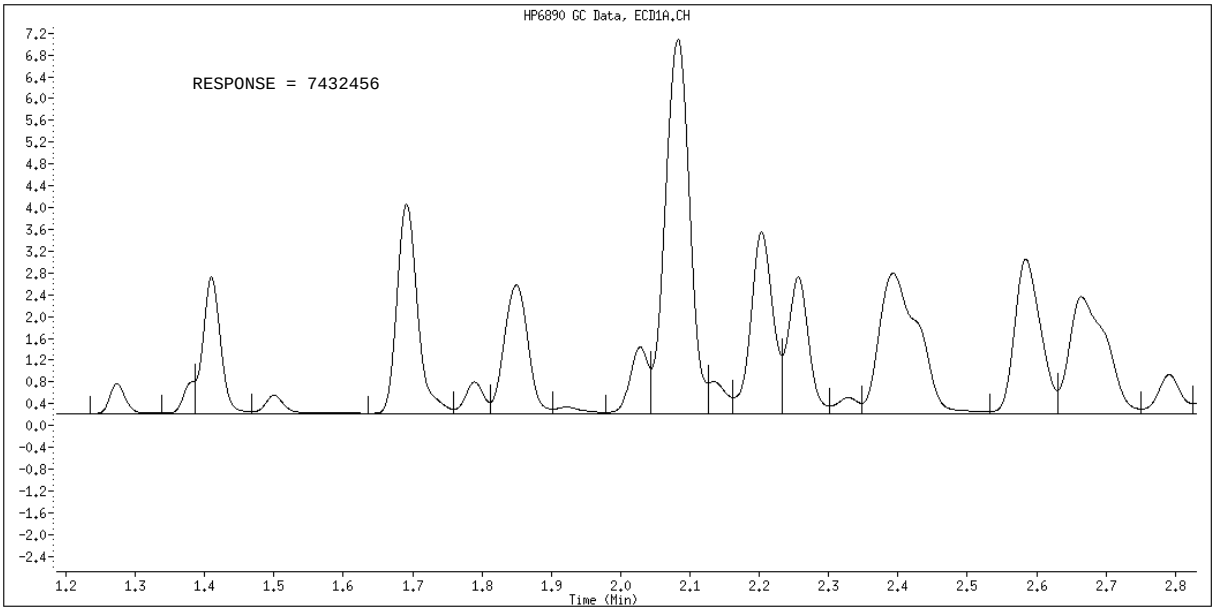
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 013F1301.D
Inj. Date and Time: 08-FEB-2010 18:51
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1242
CAS #: 53469-21-9
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

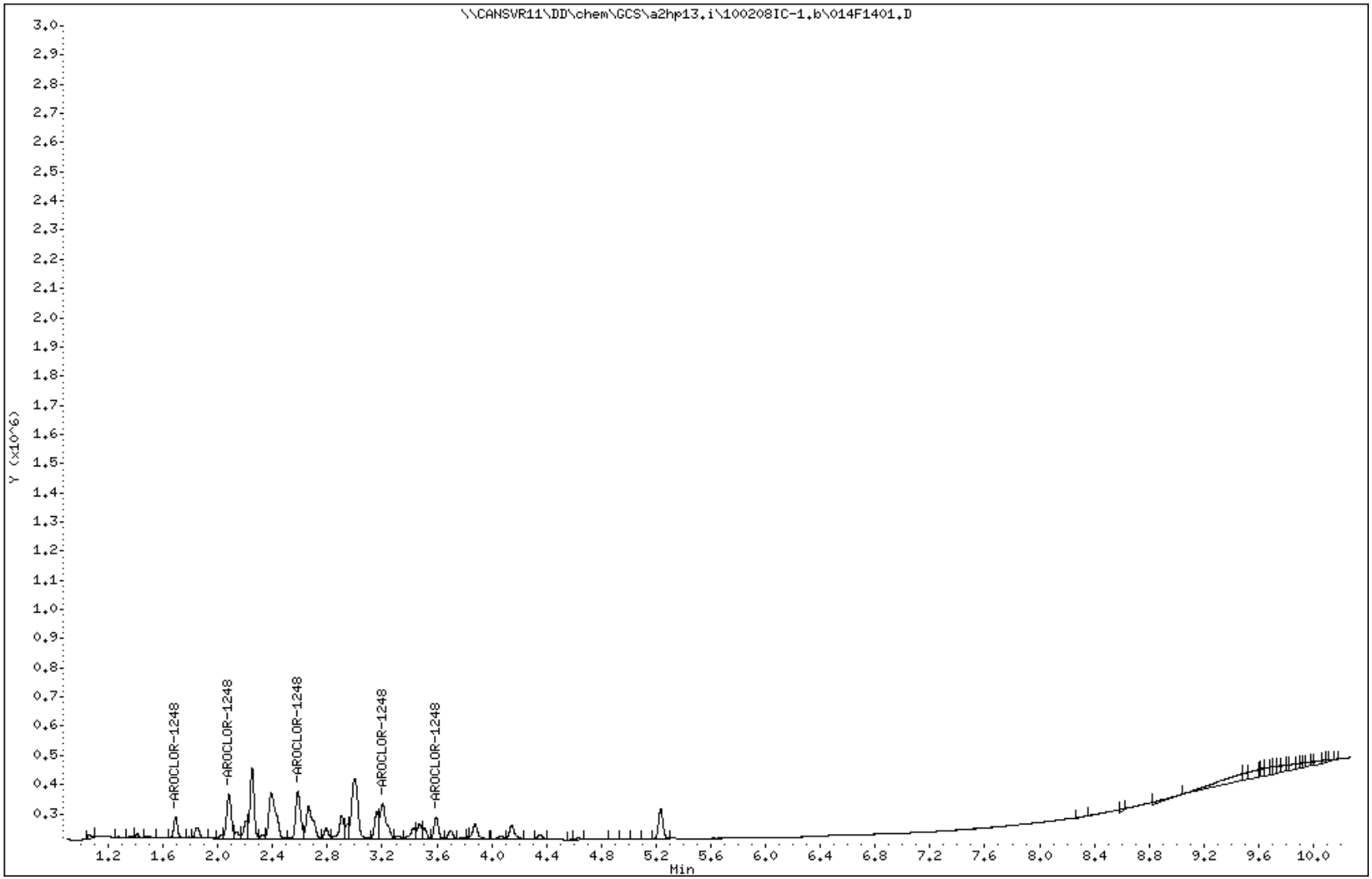
TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:06
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,1
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 14 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.690	1.689	0.001	72700	0.05000	0.05611	75.00- 125.00	100.00
2.080	2.081	-0.001	150545	0.05000	0.05569	156.55- 260.91	207.08
2.582	2.583	-0.001	160102	0.05000	0.05714	162.02- 270.04	220.22
3.202	3.202	0.000	120160	0.05000	0.05566	123.26- 205.43	165.28
3.593	3.595	-0.002	74108	0.05000	0.05373	77.67- 129.46	101.94
		Average of Peak Amounts =			0.05567		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
Date : 08-FEB-2010 19:06
Client ID:
Instrument: a2hp13.i
Sample Info: 1248,,1,1
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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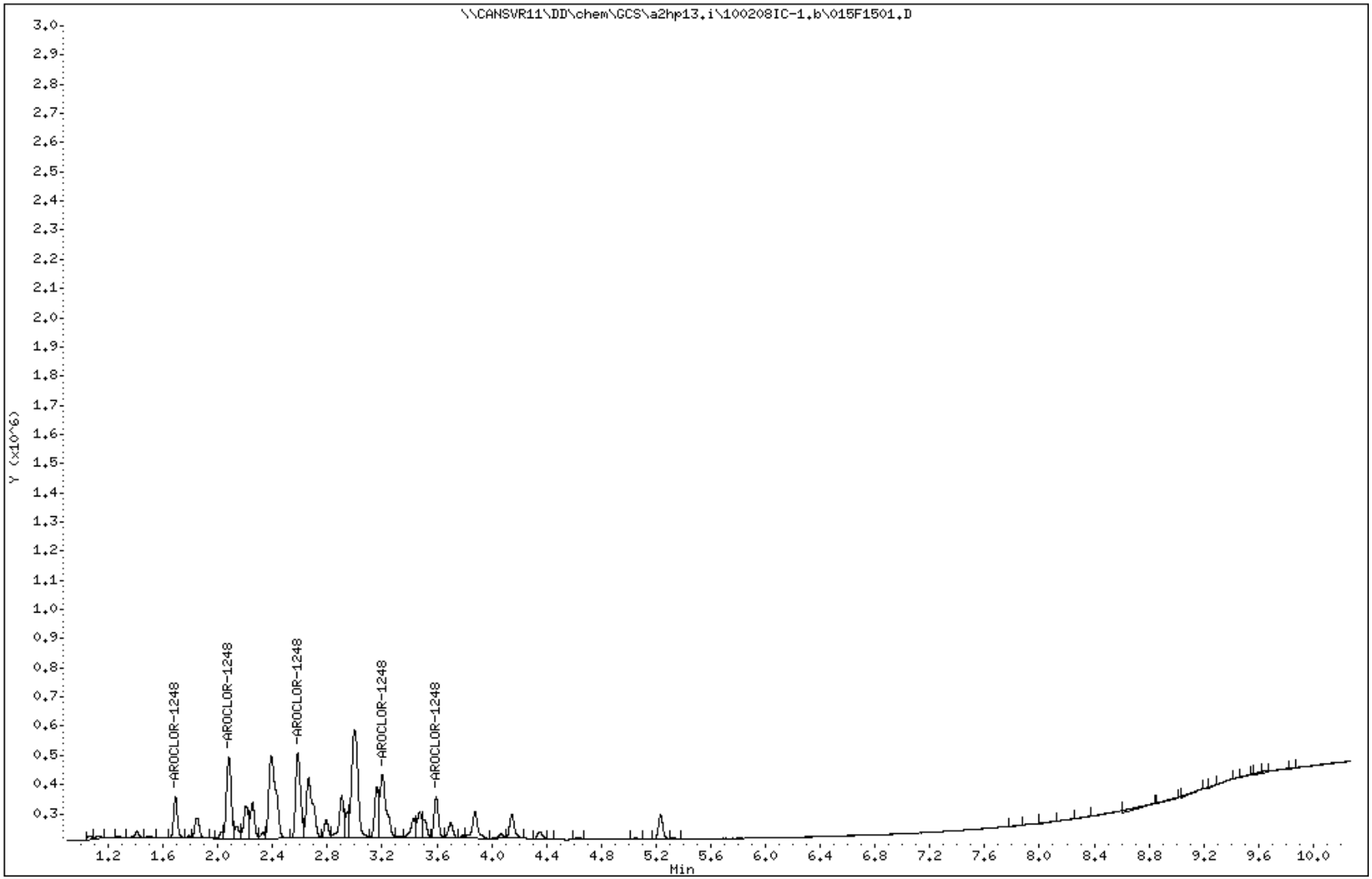
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:21
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,2
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	142026	0.10000	0.1096	75.00- 125.00	100.00
2.081	2.081	0.000	279006	0.10000	0.1032	156.55- 260.91	196.45
2.583	2.583	0.000	293382	0.10000	0.1047	162.02- 270.04	206.57
3.203	3.202	0.001	219773	0.10000	0.1018	123.26- 205.43	154.74
3.594	3.595	-0.001	142460	0.10000	0.1033	77.67- 129.46	100.31
		Average of Peak Amounts =			0.10452		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
Date : 08-FEB-2010 19:21
Client ID:
Sample Info: 1248,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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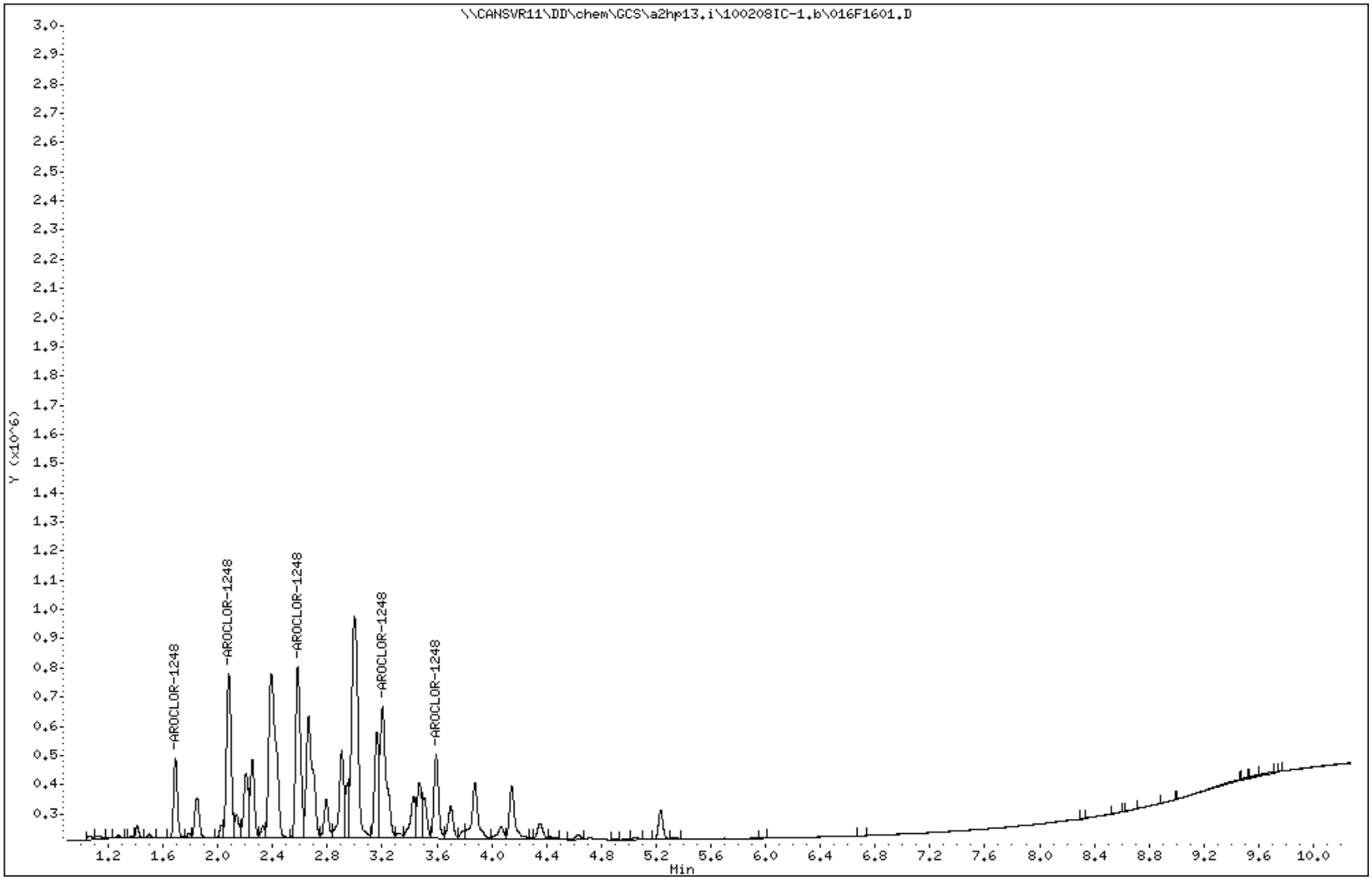
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:36
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,3
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 16 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	274012	0.20000	0.2115	75.00- 125.00	100.00
2.080	2.081	-0.001	564126	0.20000	0.2087	156.55- 260.91	205.88
2.583	2.583	0.000	585739	0.20000	0.2090	162.02- 270.04	213.76
3.203	3.202	0.001	449850	0.20000	0.2084	123.26- 205.43	164.17
3.593	3.595	-0.002	290159	0.20000	0.2104	77.67- 129.46	105.89
		Average of Peak Amounts =			0.20960		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D
Date : 08-FEB-2010 19:36
Client ID:
Sample Info: 1248,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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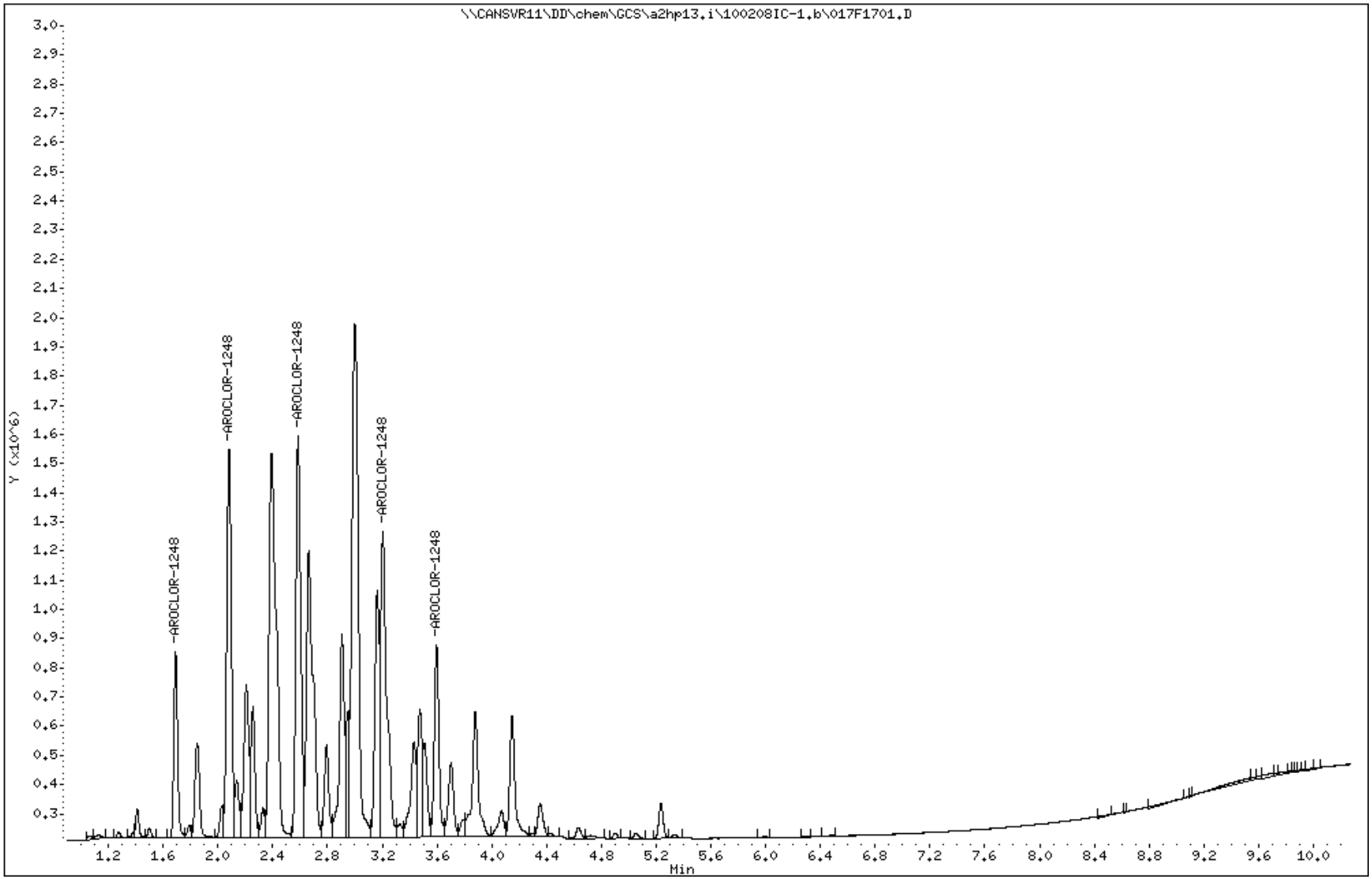
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:51
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,4
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 17 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.690	1.689	0.001	637110	0.50000	0.4917	75.00- 125.00	100.00
2.081	2.081	0.000	1329828	0.50000	0.4919	156.55- 260.91	208.73
2.585	2.583	0.002	1376369	0.50000	0.4912	162.02- 270.04	216.03
3.205	3.202	0.003	1047033	0.50000	0.4850	123.26- 205.43	164.34
3.595	3.595	0.000	659817	0.50000	0.4784	77.67- 129.46	103.56
		Average of Peak Amounts =			0.48764		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
Date : 08-FEB-2010 19:51
Client ID:
Sample Info: 1248,,1,4
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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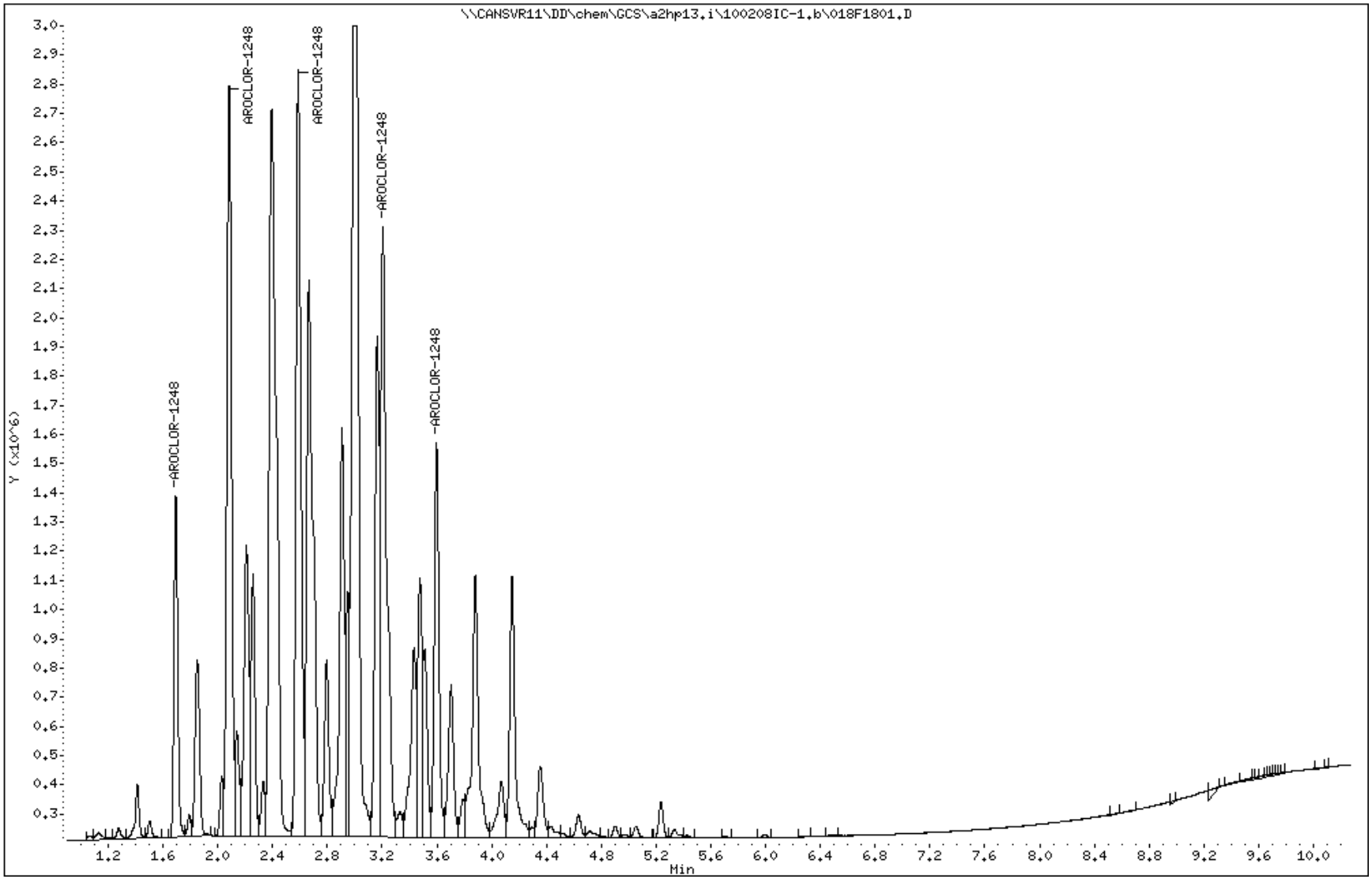
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 20:07
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,5
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.692	1.689	0.003	1169565	1.00000	0.9026	75.00- 125.00	100.00
2.081	2.081	0.000	2569180	1.00000	0.9504	156.55- 260.91	219.67
2.585	2.583	0.002	2628508	1.00000	0.9380	162.02- 270.04	224.74
3.204	3.202	0.002	2089068	1.00000	0.9678	123.26- 205.43	178.62
3.595	3.595	0.000	1353246	1.00000	0.9811	77.67- 129.46	115.71
		Average of Peak Amounts =			0.94798		

1286

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
Date : 08-FEB-2010 20:07
Client ID:
Sample Info: 1248,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



North Canton

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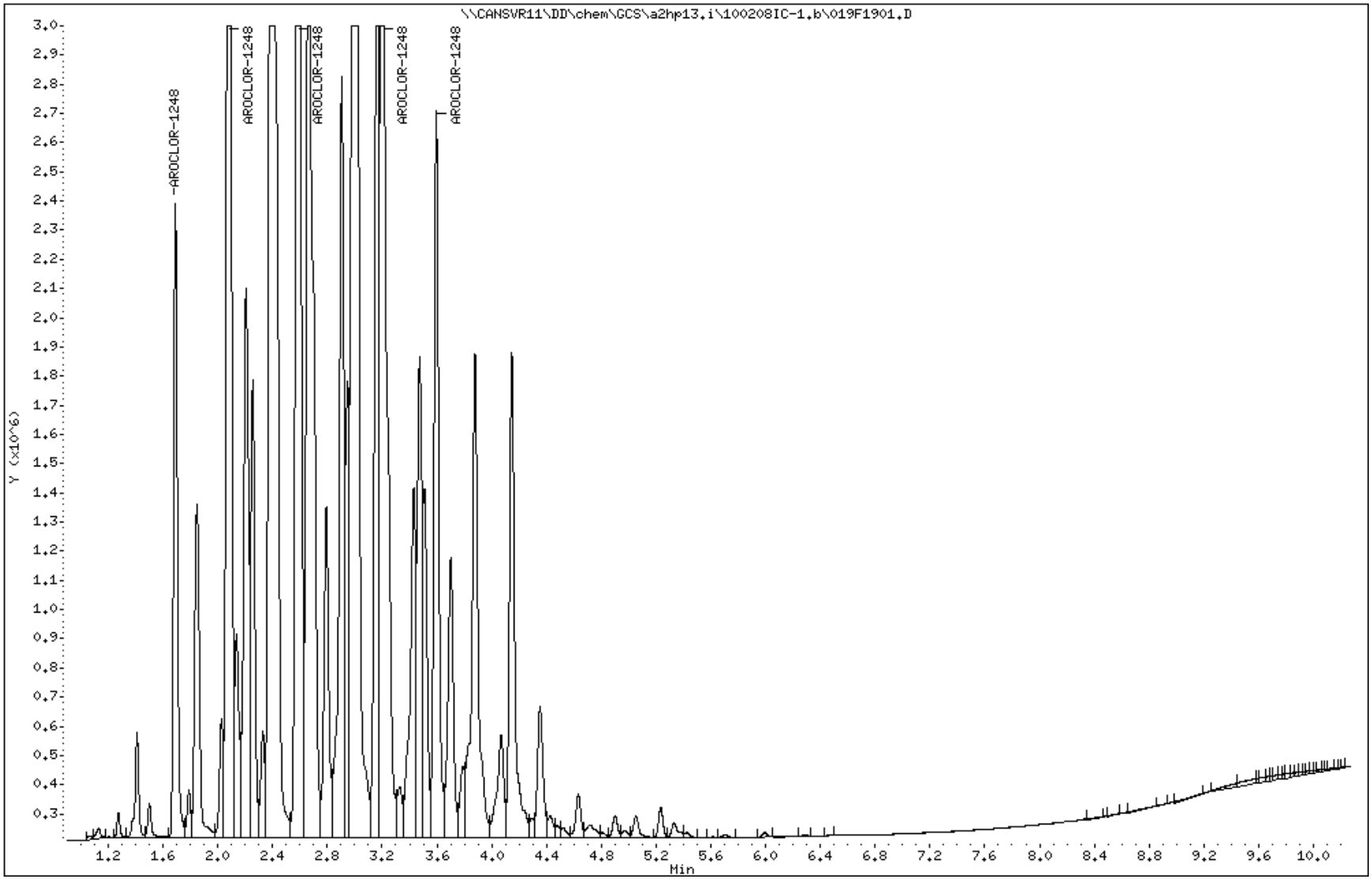
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 20:22
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,6
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 19 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	2172800	2.00000	1.677	75.00- 125.00	100.00
2.081	2.081	0.000	4738942	2.00000	1.753	156.55- 260.91	218.10
2.583	2.583	0.000	4733633	2.00000	1.689	162.02- 270.04	217.86
3.202	3.202	0.000	3836733	2.00000	1.777	123.26- 205.43	176.58
3.595	3.595	0.000	2491009	2.00000	1.806	77.67- 129.46	114.65
		Average of Peak Amounts =			1.74040		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
Date : 08-FEB-2010 20:22
Client ID:
Sample Info: 1248,,1,6

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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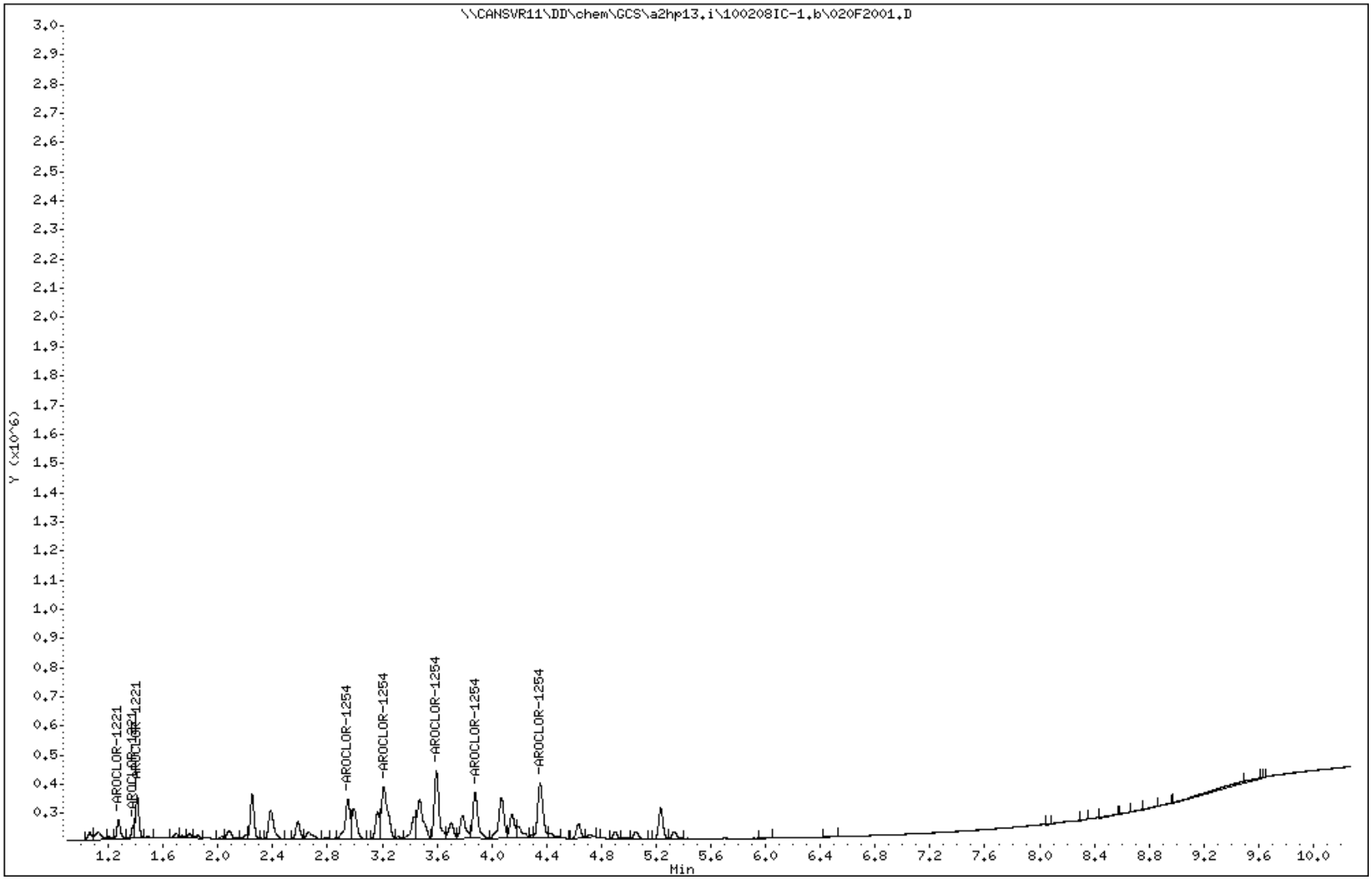
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 20:36
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,1
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 20 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.948	2.951	-0.003	135822	0.05000	0.05856	75.00- 125.00	100.00
3.211	3.213	-0.002	178586	0.05000	0.05870	98.18- 163.63	131.49
3.595	3.597	-0.002	231015	0.05000	0.05659	132.08- 220.13	170.09
3.880	3.881	-0.001	156155	0.05000	0.05541	89.69- 149.48	114.97
4.352	4.354	-0.002	186311	0.05000	0.05506	107.68- 179.46	137.17
		Average of Peak Amounts =			0.05686		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	65347	0.05000	0.05316	75.00- 125.00	100.00
1.380	1.391	-0.011	42412	0.05000	0.05299	49.63- 82.71	64.90
1.410	1.412	-0.002	145084	0.05000	0.05276	164.10- 273.51	222.02
		Average of Peak Amounts =			0.05297		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
Date : 08-FEB-2010 20:36
Client ID:
Sample Info: 1254,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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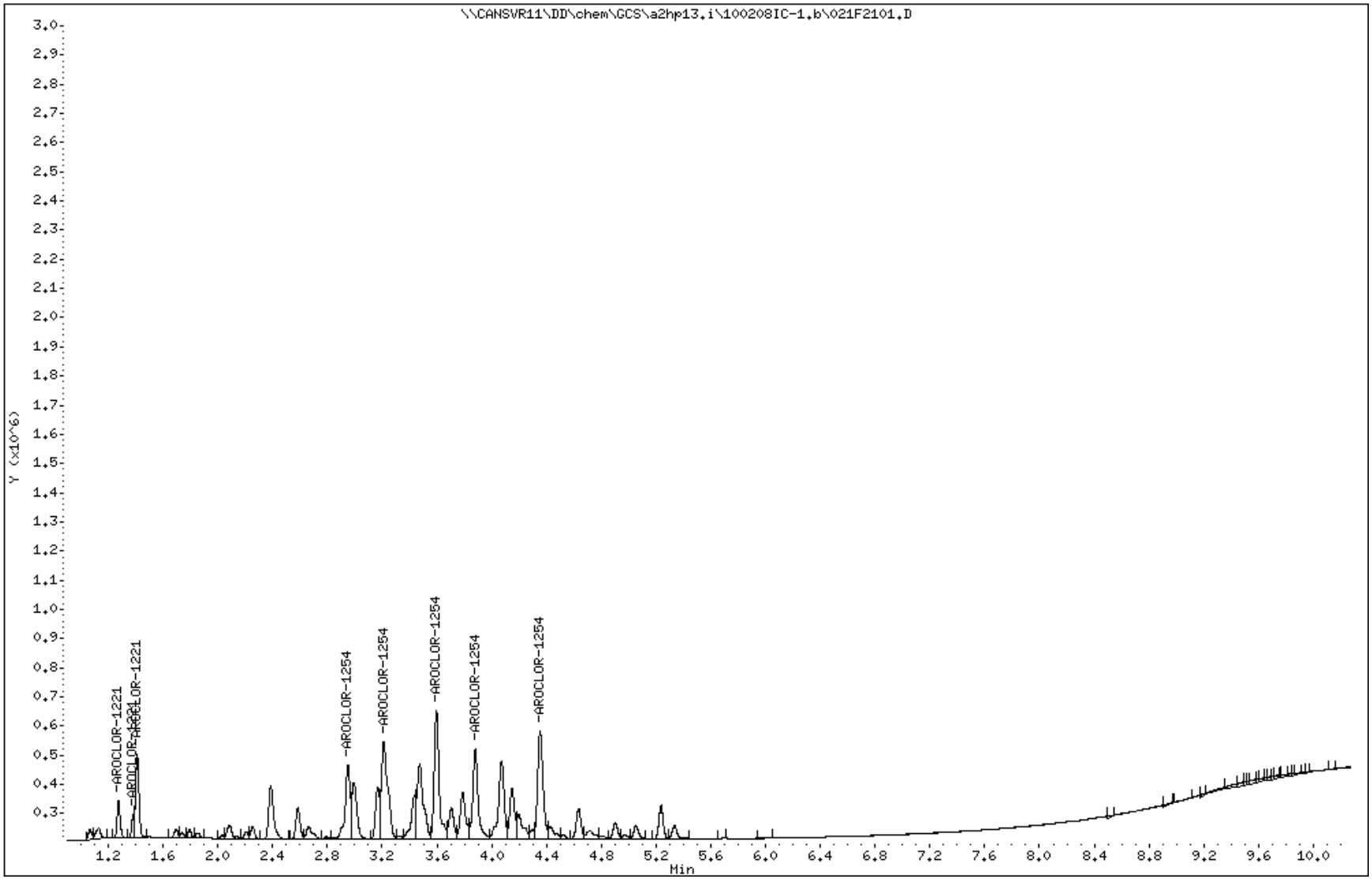
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 20:52
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,2
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 21 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	252847	0.10000	0.1090	75.00- 125.00	100.00
3.211	3.213	-0.002	332623	0.10000	0.1093	98.18- 163.63	131.55
3.596	3.597	-0.001	437608	0.10000	0.1072	132.08- 220.13	173.07
3.880	3.881	-0.001	306740	0.10000	0.1088	89.69- 149.48	121.31
4.353	4.354	-0.001	367484	0.10000	0.1086	107.68- 179.46	145.34
		Average of Peak Amounts =			0.10858		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	126128	0.10000	0.1026	75.00- 125.00	100.00
1.382	1.391	-0.009	79401	0.10000	0.09921	49.63- 82.71	62.95
1.411	1.412	-0.001	286292	0.10000	0.1041	164.10- 273.51	226.99
		Average of Peak Amounts =			0.10197		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
Date : 08-FEB-2010 20:52
Client ID:
Sample Info: 1254,,1,2
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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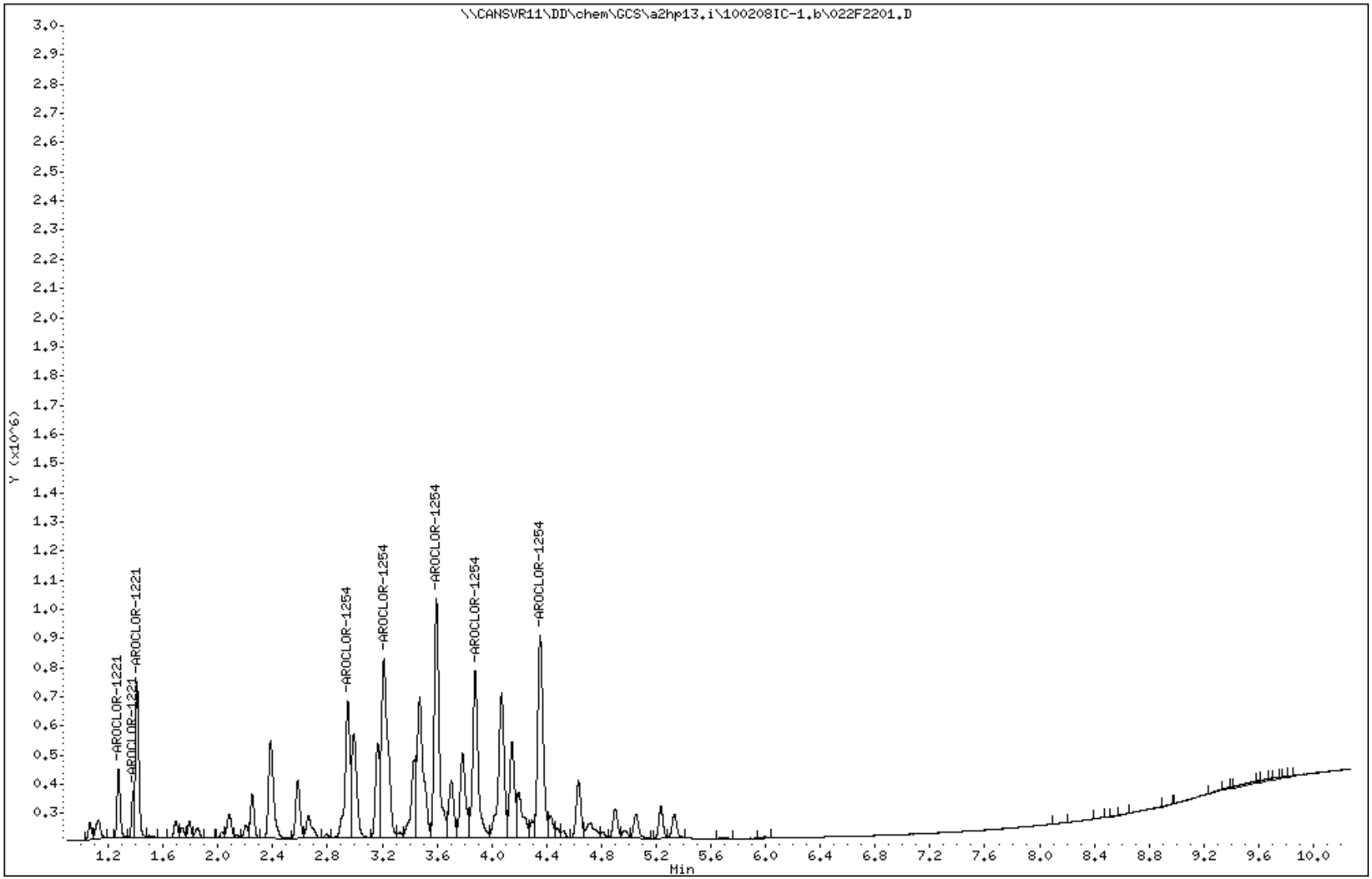
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:07
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,3
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 22 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	466592	0.20000	0.2012	75.00- 125.00	100.00
3.211	3.213	-0.002	612539	0.20000	0.2013	98.18- 163.63	131.28
3.595	3.597	-0.002	819107	0.20000	0.2007	132.08- 220.13	175.55
3.879	3.881	-0.002	570418	0.20000	0.2024	89.69- 149.48	122.25
4.353	4.354	-0.001	694495	0.20000	0.2052	107.68- 179.46	148.84
	Average of Peak Amounts =				0.20216		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	235833	0.20000	0.1918	75.00- 125.00	100.00
1.381	1.391	-0.010	156993	0.20000	0.1962	49.63- 82.71	66.57
1.410	1.412	-0.002	534783	0.20000	0.1945	164.10- 273.51	226.76
	Average of Peak Amounts =				0.19417		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
Date : 08-FEB-2010 21:07
Client ID:
Sample Info: 1254,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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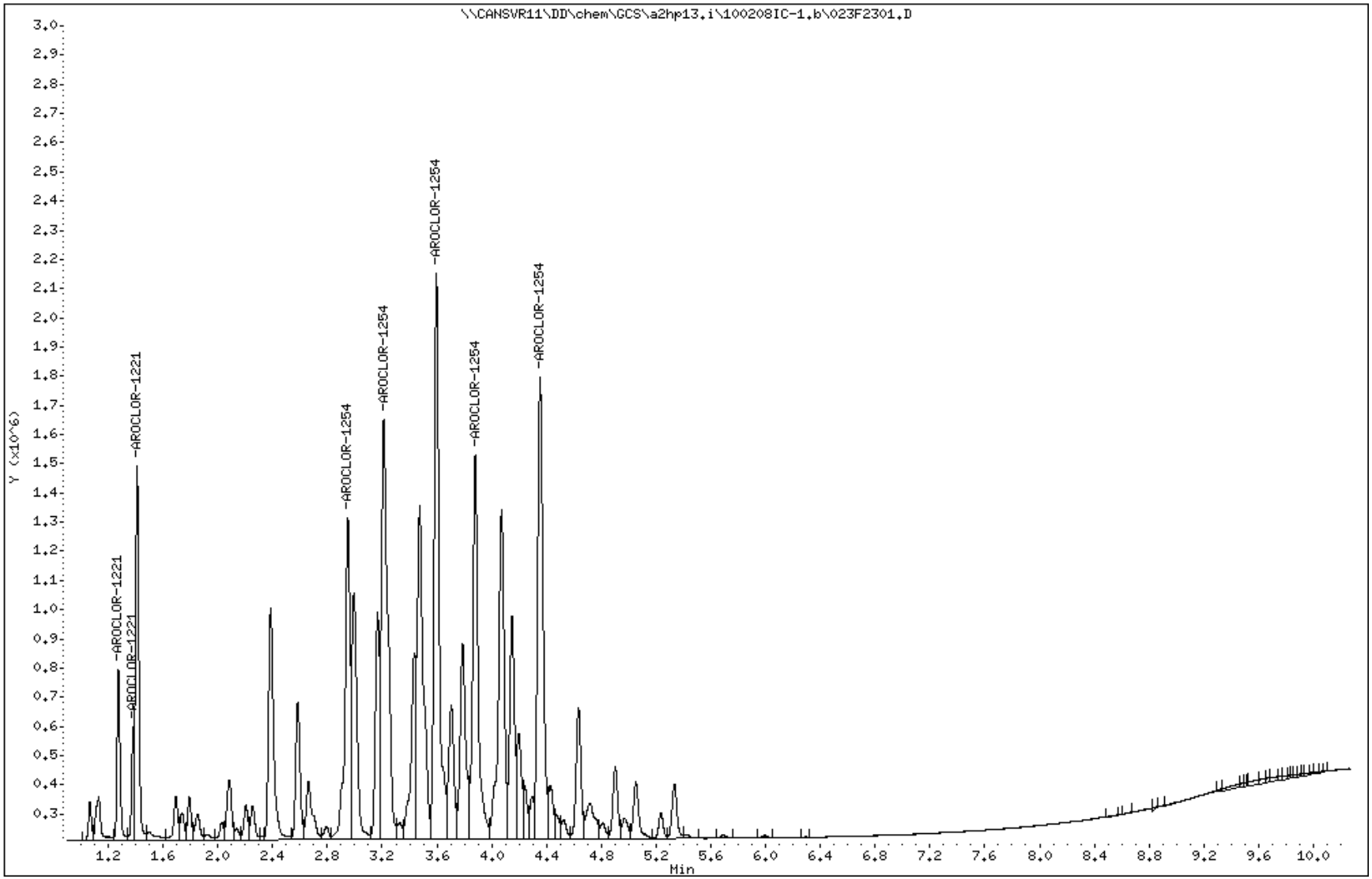
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:21
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,4
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 23 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	1100653	0.50000	0.4746	75.00- 125.00	100.00
3.211	3.213	-0.002	1440822	0.50000	0.4736	98.18- 163.63	130.91
3.596	3.597	-0.001	1938328	0.50000	0.4748	132.08- 220.13	176.11
3.880	3.881	-0.001	1316213	0.50000	0.4671	89.69- 149.48	119.58
4.353	4.354	-0.001	1580187	0.50000	0.4670	107.68- 179.46	143.57
		Average of Peak Amounts =			0.47142		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	584948	0.50000	0.4758	75.00- 125.00	100.00
1.381	1.391	-0.010	387055	0.50000	0.4836	49.63- 82.71	66.17
1.410	1.412	-0.002	1279897	0.50000	0.4655	164.10- 273.51	218.81
		Average of Peak Amounts =			0.47497		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
Date : 08-FEB-2010 21:21
Client ID:
Sample Info: 1254,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

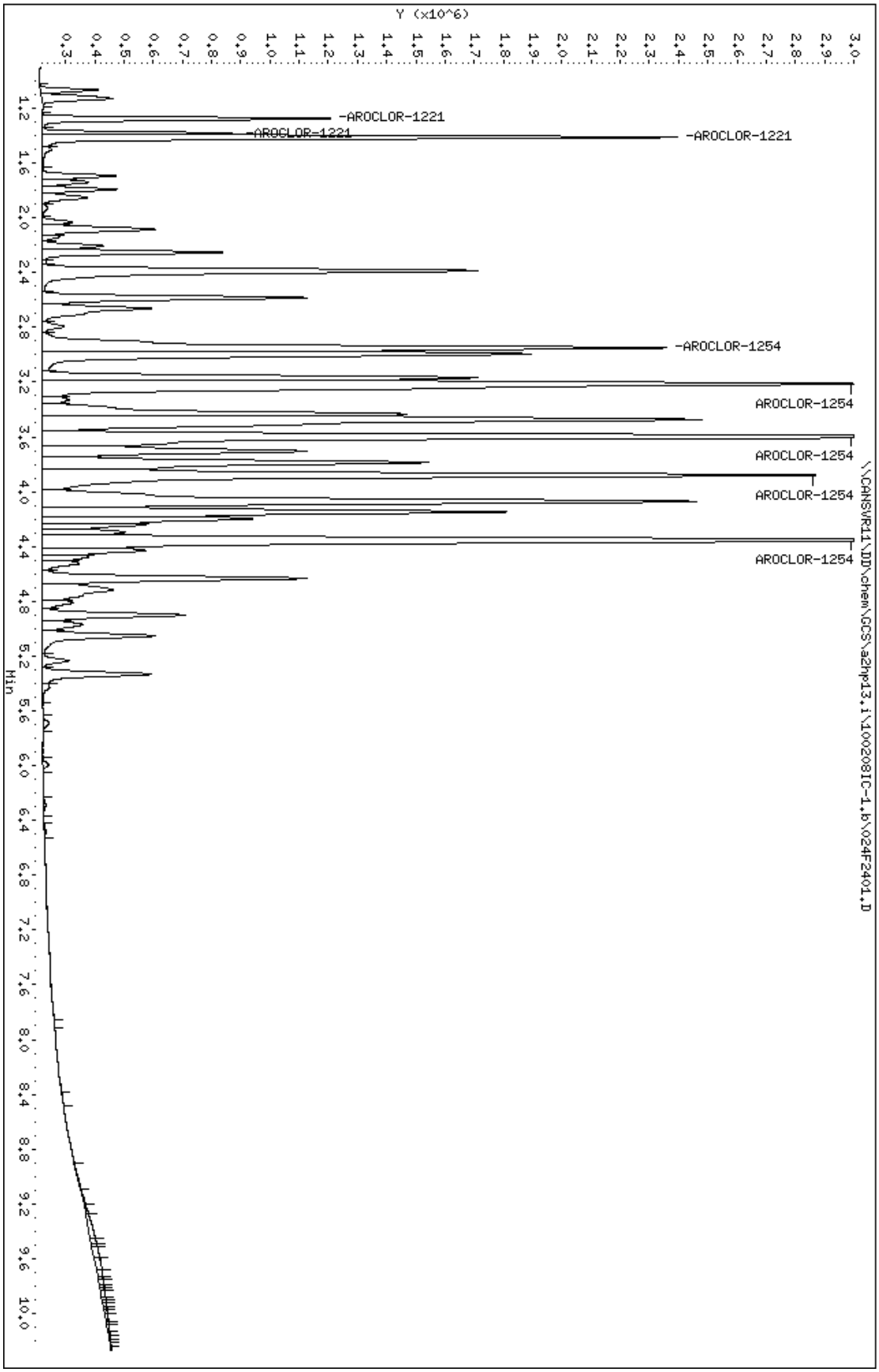
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:36
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,5
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 24 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

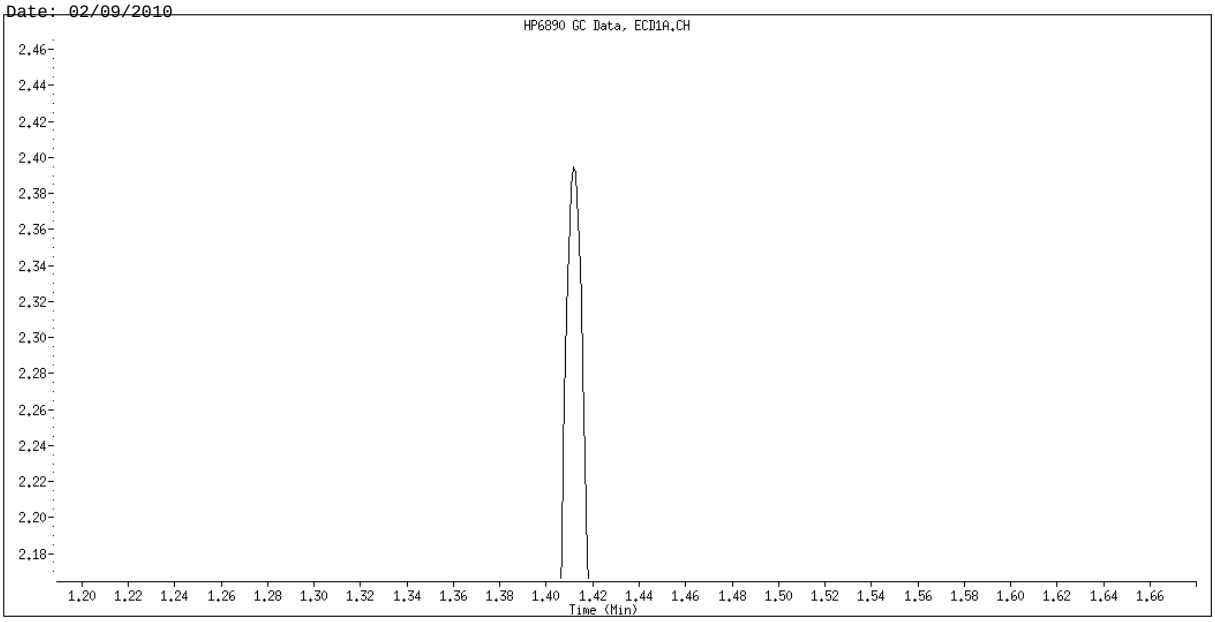
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	2139507	1.00000	0.9225	75.00- 125.00	100.00
3.212	3.213	-0.001	2809567	1.00000	0.9235	98.18- 163.63	131.32
3.596	3.597	-0.001	3849058	1.00000	0.9429	132.08- 220.13	179.90
3.879	3.881	-0.002	2649791	1.00000	0.9403	89.69- 149.48	123.85
4.353	4.354	-0.001	3181404	1.00000	0.9402	107.68- 179.46	148.70
		Average of Peak Amounts =			0.93388		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	989175	1.00000	0.8374	75.00- 125.00	100.00(M)
1.389	1.391	-0.002	668032	1.00000	0.8632	49.63- 82.71	67.53
1.411	1.412	-0.001	2174478	1.00000	0.8254	164.10- 273.51	219.83
		Average of Peak Amounts =			0.84200		

QC Flag Legend

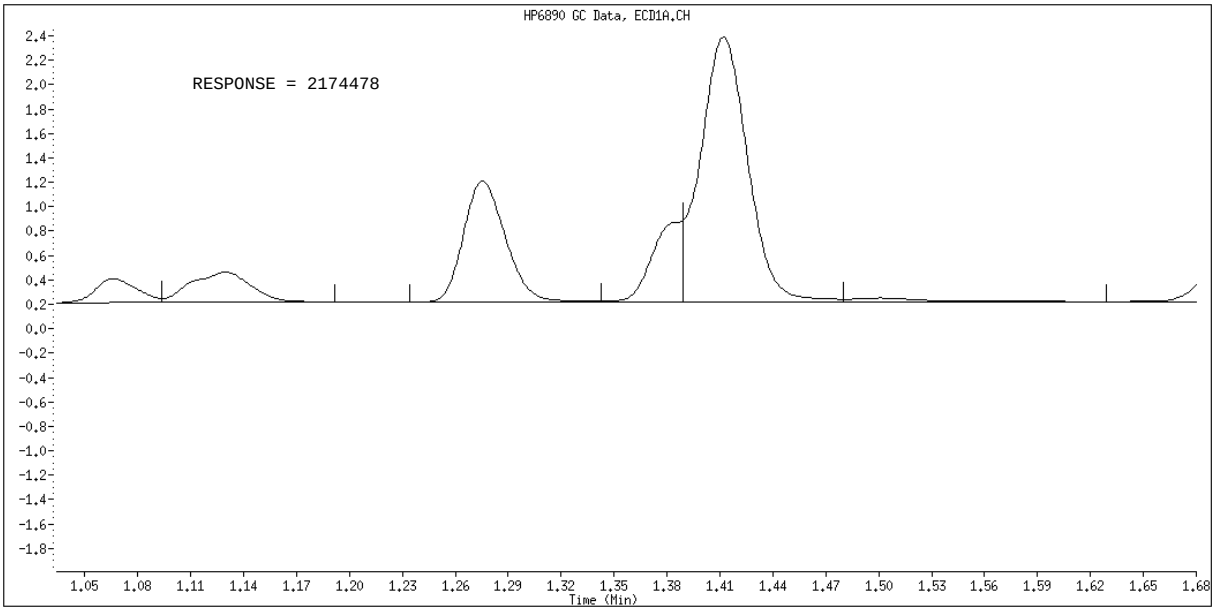
M - Compound response manually integrated.


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
Date : 08-FEB-2010 21:36
Client ID:
Sample Info: 1254,,1.5
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
-AROCLOR-1221
-AROCLOR-1221
-AROCLOR-1221
-AROCLOR-1254
AROCLOR-1254
AROCLOR-1254
AROCLOR-1254
AROCLOR-1254
\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
Min

Data File Name: 024F2401.D
Inj. Date and Time: 08-FEB-2010 21:36
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

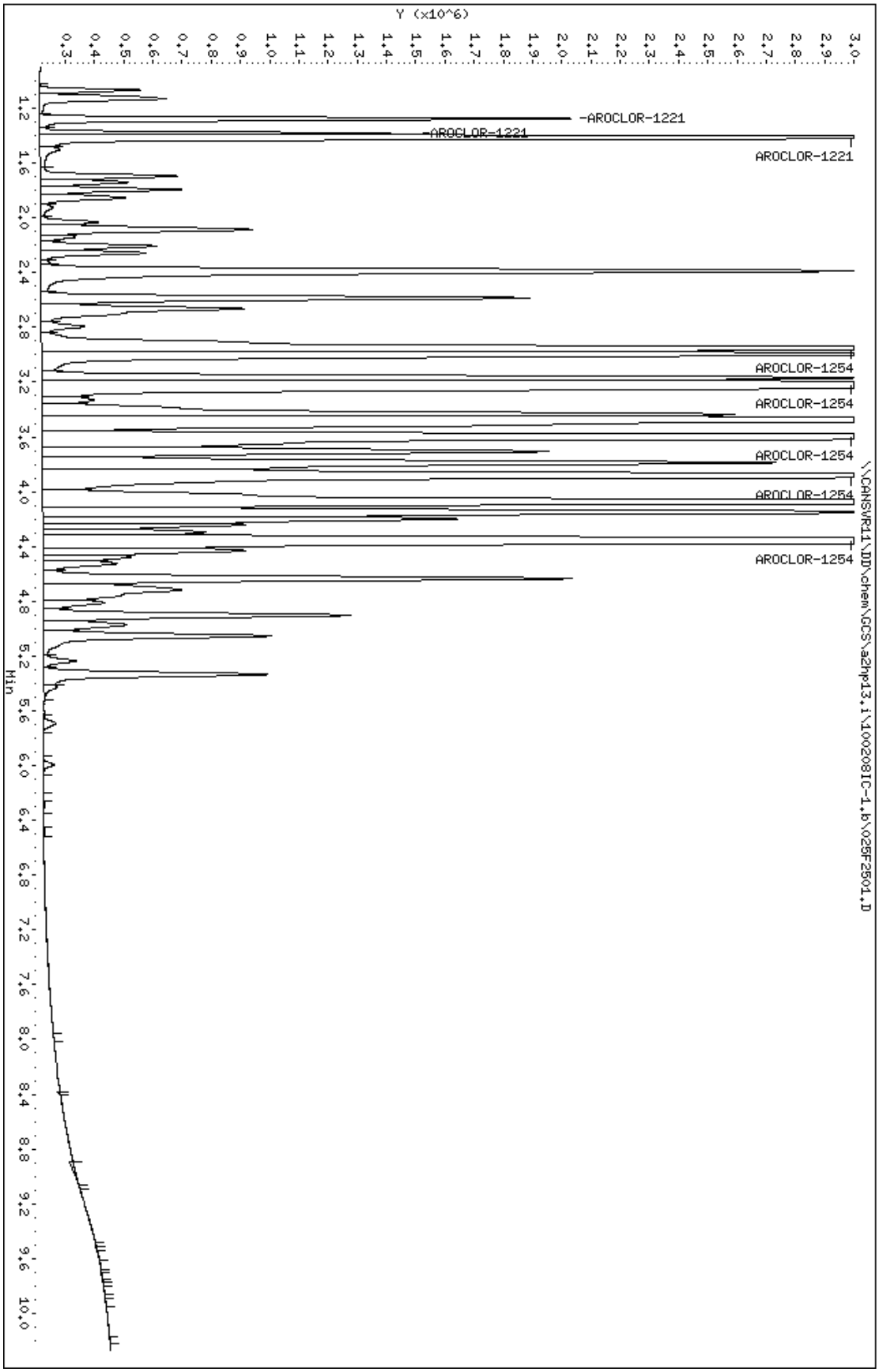
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:52
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,6
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 25 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

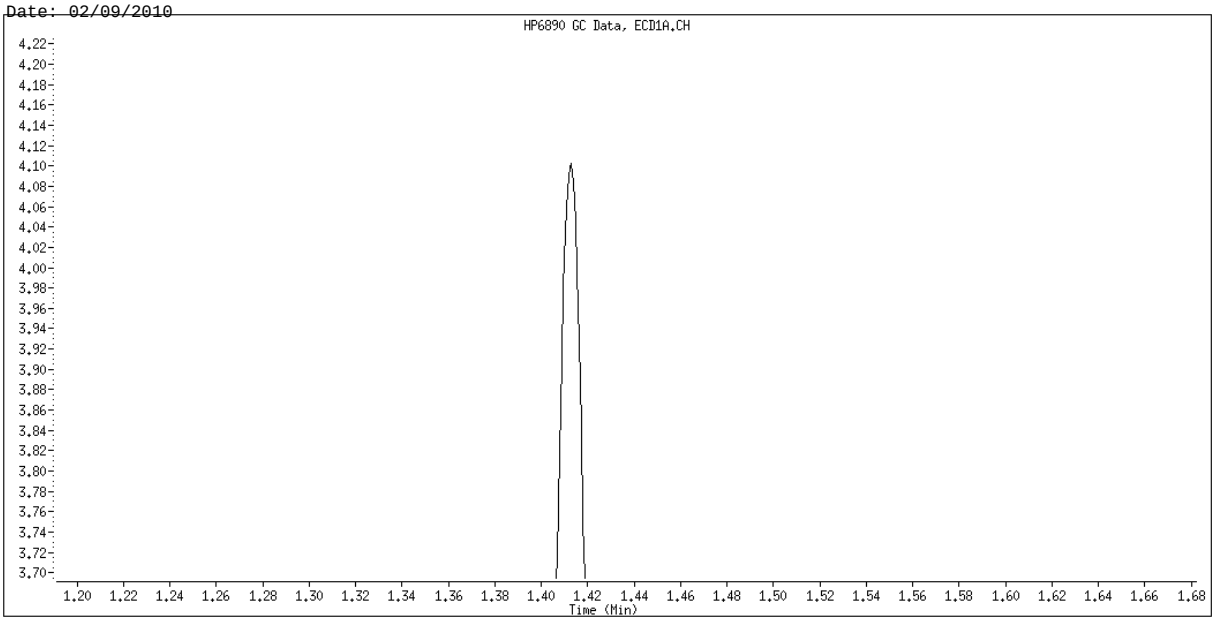
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.951	2.951	0.000	3993114	2.00000	1.722	75.00- 125.00	100.00
3.213	3.213	0.000	5202748	2.00000	1.710	98.18- 163.63	130.29
3.597	3.597	0.000	7349171	2.00000	1.800	132.08- 220.13	184.05
3.881	3.881	0.000	5165624	2.00000	1.833	89.69- 149.48	129.36
4.354	4.354	0.000	6173201	2.00000	1.824	107.68- 179.46	154.60
Average of Peak Amounts =					1.77780		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.276	1.276	0.000	1819592	2.00000	1.602	75.00- 125.00	100.00(M)
1.391	1.391	0.000	1279813	2.00000	1.703	49.63- 82.71	70.34
1.412	1.412	0.000	3890421	2.00000	1.544	164.10- 273.51	213.81
Average of Peak Amounts =					1.61633		

QC Flag Legend

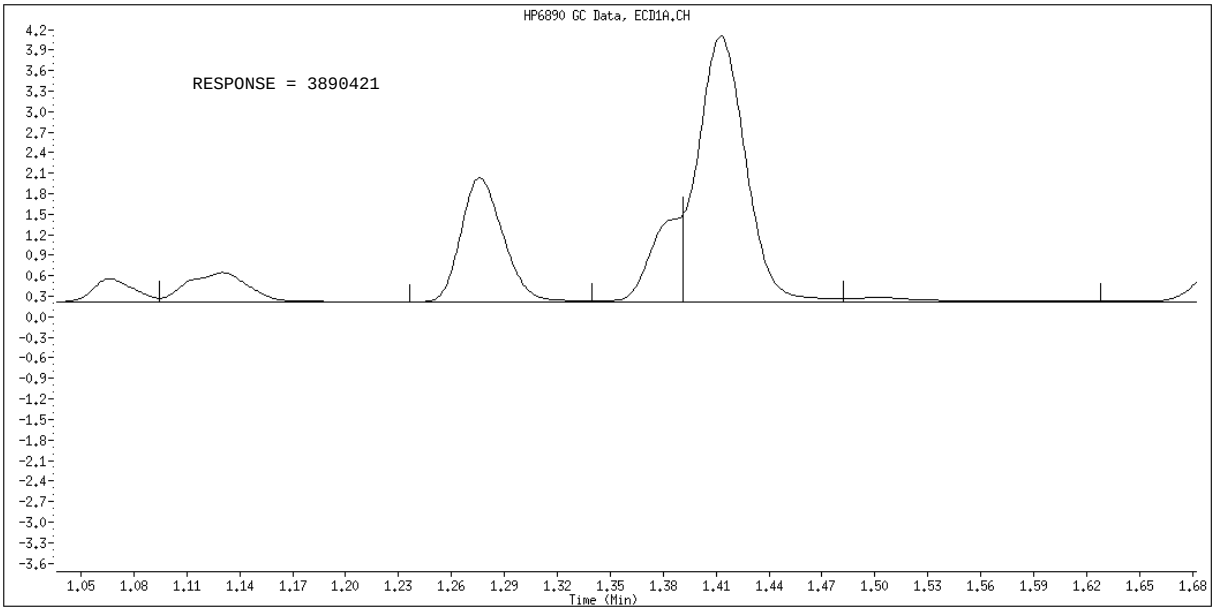
M - Compound response manually integrated.


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
Date : 08-FEB-2010 21:52
Client ID:
Sample Info: 1254,,1.6
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
-AROCLOR-1221
AROCLOR-1221
AROCLOR-1254
AROCLOR-1254
AROCLOR-1254
AROCLOR-1254
AROCLOR-1254
\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
Min

Data File Name: 025F2501.D
Inj. Date and Time: 08-FEB-2010 21:52
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

PCB 8082/608

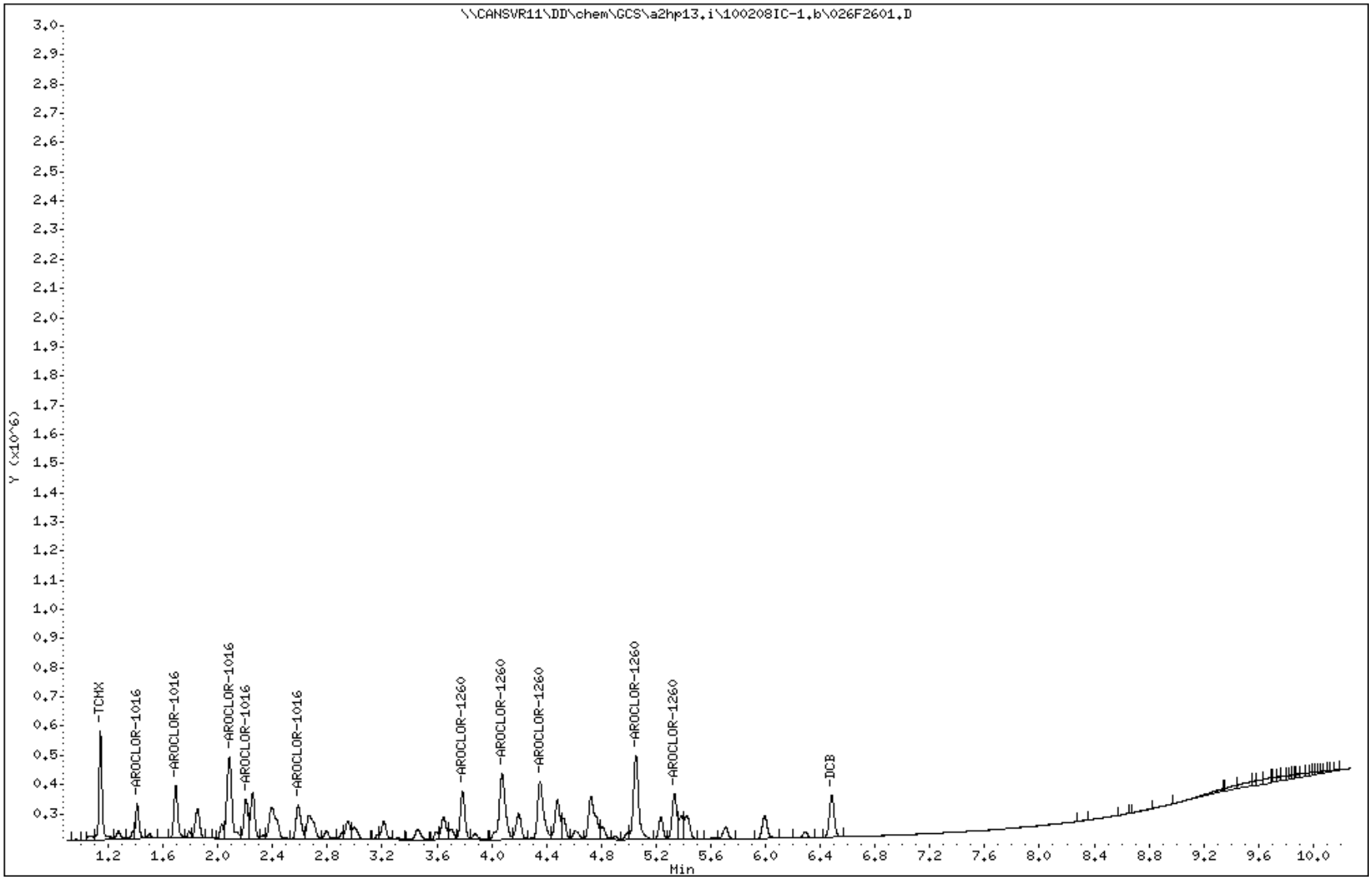
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:07
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,1
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 26 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.142	1.144	-0.002	370534	0.00250	0.002982		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.411	1.419	-0.008	205324	0.05000	0.05773	80.00- 120.00	100.00
1.692	1.703	-0.011	351930	0.05000	0.05718	118.89- 198.15	171.40
2.084	2.095	-0.011	701292	0.05000	0.05403	250.35- 417.24	341.55
2.205	2.217	-0.012	286467	0.05000	0.05379	104.90- 174.84	139.52
2.586	2.599	-0.013	286259	0.05000	0.05398	107.74- 179.57	139.42
	Average of Peak Amounts =				0.05534		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.786	3.800	-0.014	160830	0.05000	0.05328	80.00- 120.00	100.00
4.074	4.088	-0.014	223463	0.05000	0.05287	103.77- 172.95	138.94
4.353	4.366	-0.013	197363	0.05000	0.05125	95.99- 159.98	122.72
5.054	5.066	-0.012	285880	0.05000	0.04966	151.41- 252.34	177.75
5.334	5.346	-0.012	152897	0.05000	0.04986	81.94- 136.57	95.07
	Average of Peak Amounts =				0.05138		
$ 9 DCB					CAS #: 2051-24-3		
6.482	6.483	-0.001	142510	0.00250	0.002569		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
Date : 08-FEB-2010 22:07
Client ID:
Sample Info: 1660,,1,1

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:21
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,2
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 27 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	613205	0.00500	0.004936		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.419	-0.007	397550	0.10000	0.1118	80.00- 120.00	100.00(M)
1.694	1.703	-0.009	668730	0.10000	0.1086	118.89- 198.15	168.21
2.085	2.095	-0.010	1381552	0.10000	0.1064	250.35- 417.24	347.52
2.206	2.217	-0.011	545991	0.10000	0.1025	104.90- 174.84	137.34
2.586	2.599	-0.013	557809	0.10000	0.1052	107.74- 179.57	140.31
	Average of Peak Amounts =				0.10690		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.800	-0.013	331496	0.10000	0.1098	80.00- 120.00	100.00
4.075	4.088	-0.013	463528	0.10000	0.1097	103.77- 172.95	139.83
4.353	4.366	-0.013	419169	0.10000	0.1088	95.99- 159.98	126.45
5.053	5.066	-0.013	618323	0.10000	0.1074	151.41- 252.34	186.53
5.335	5.346	-0.011	334119	0.10000	0.1090	81.94- 136.57	100.79
	Average of Peak Amounts =				0.10894		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	310216	0.00500	0.005592		

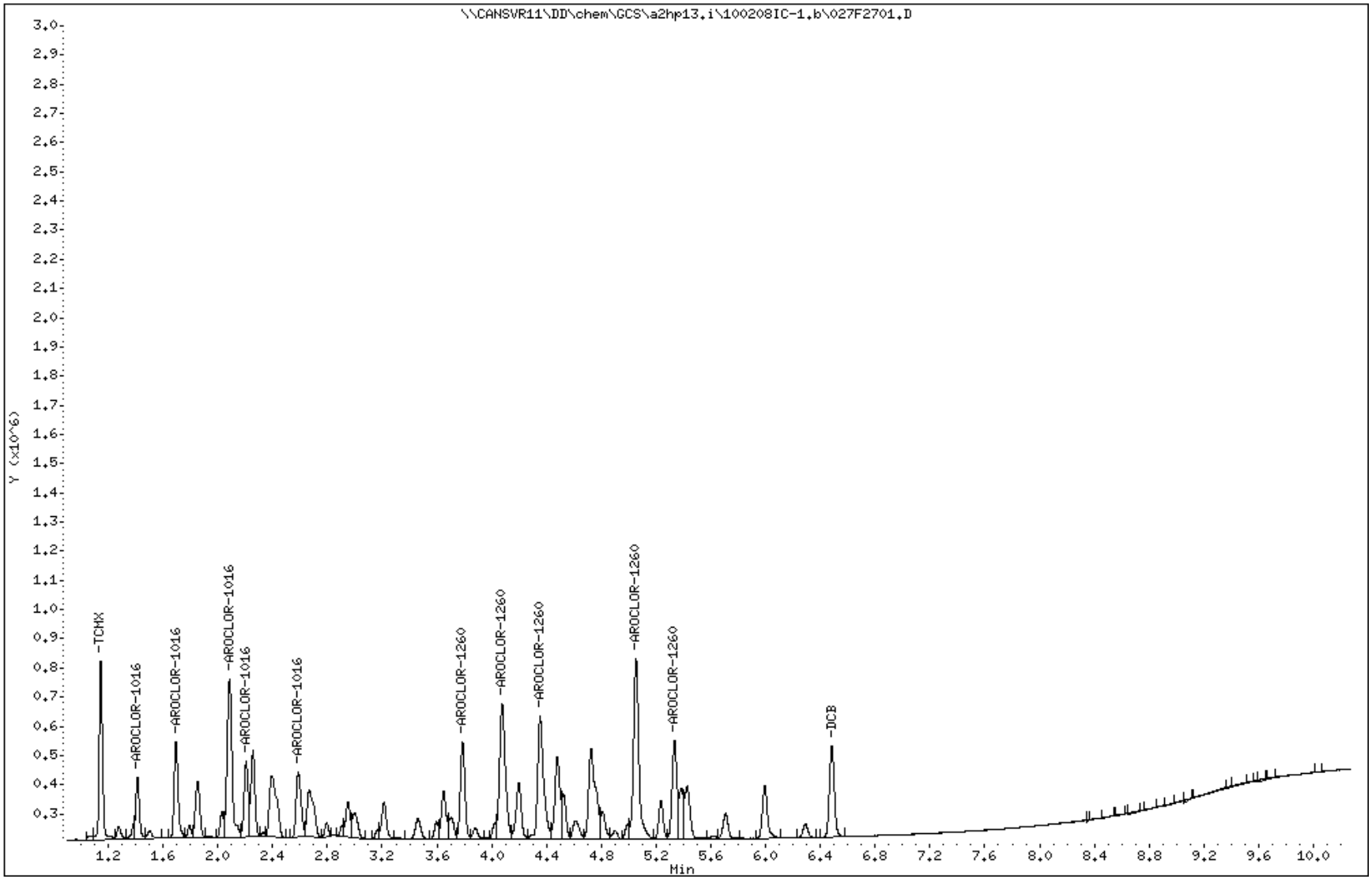
QC Flag Legend

M - Compound response manually integrated.

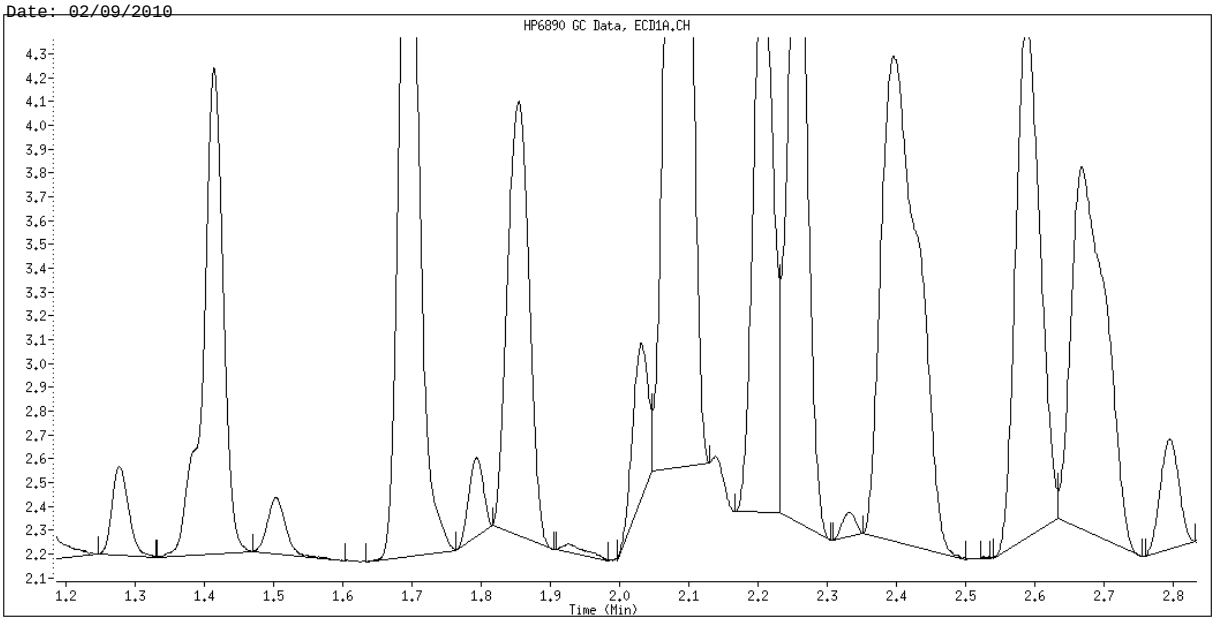
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
Date : 08-FEB-2010 22:21
Client ID:
Sample Info: 1660,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

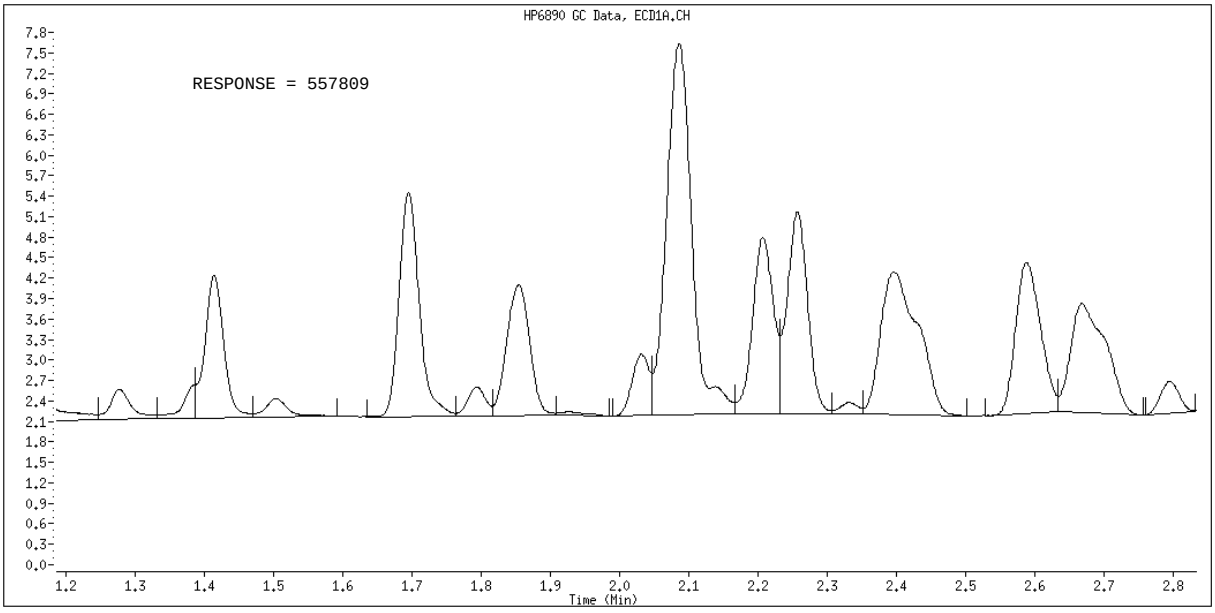
Column phase: restek pest clpI



Data File Name: 027F2701.D
Inj. Date and Time: 08-FEB-2010 22:21
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:36
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,3
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 28 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

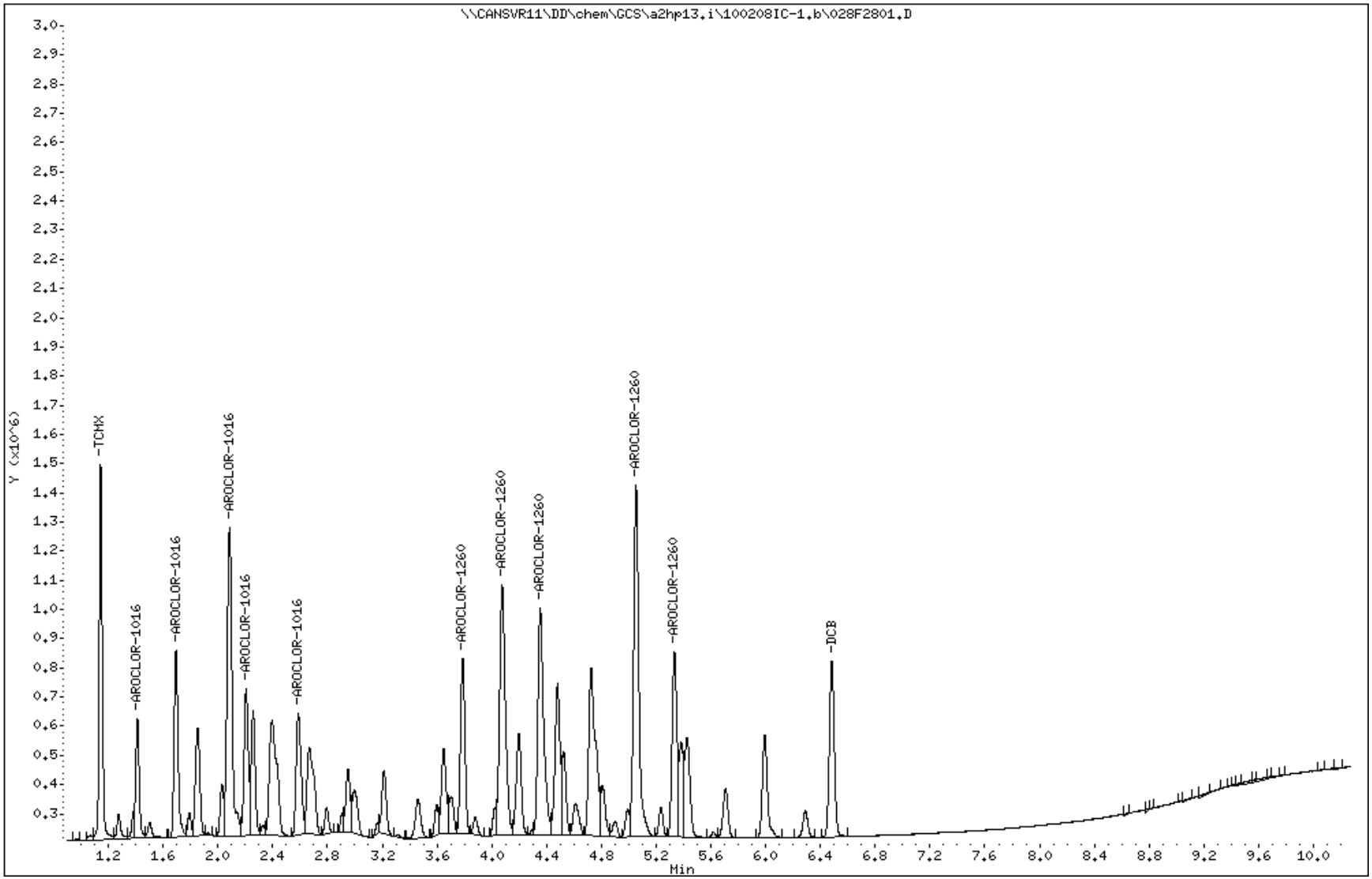
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.143	1.144	-0.001	1286875	0.01000	0.01036		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.413	-0.001	745574	0.20000	0.2006	80.00- 120.00	100.00(M)
1.693	1.694	-0.001	1276893	0.20000	0.2075	143.75- 239.59	171.26
2.085	2.086	-0.001	2694003	0.20000	0.2076	299.95- 499.92	361.33
2.205	2.207	-0.002	1090459	0.20000	0.2047	122.54- 204.23	146.26
2.586	2.588	-0.002	1052194	0.20000	0.1984	130.89- 218.15	141.13
	Average of Peak Amounts =				0.20376		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.789	-0.002	602812	0.20000	0.1997	80.00- 120.00	100.00
4.075	4.077	-0.002	853453	0.20000	0.2019	105.37- 175.62	141.58
4.353	4.355	-0.002	777892	0.20000	0.2020	97.55- 162.58	129.04
5.054	5.054	0.000	1201658	0.20000	0.2087	154.28- 257.13	199.34
5.333	5.336	-0.003	635642	0.20000	0.2073	84.36- 140.61	105.45
	Average of Peak Amounts =				0.20392		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	600816	0.01000	0.01083		

QC Flag Legend

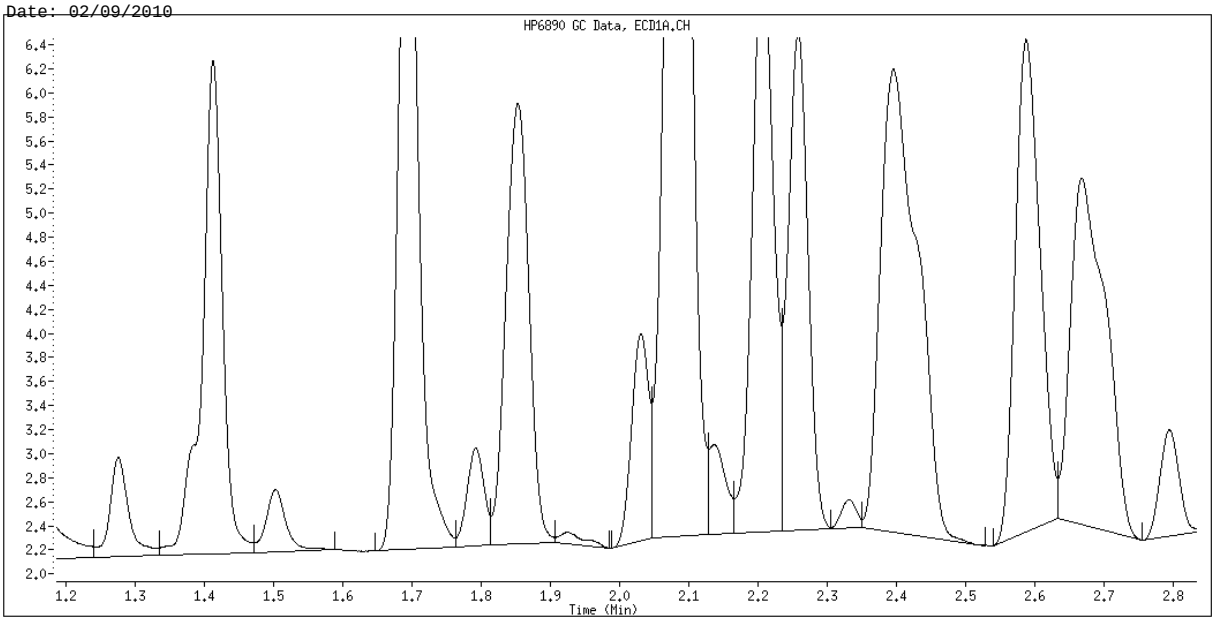
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
Date : 08-FEB-2010 22:36
Client ID:
Sample Info: 1660,,1,3
Column phase: restek pest clpI

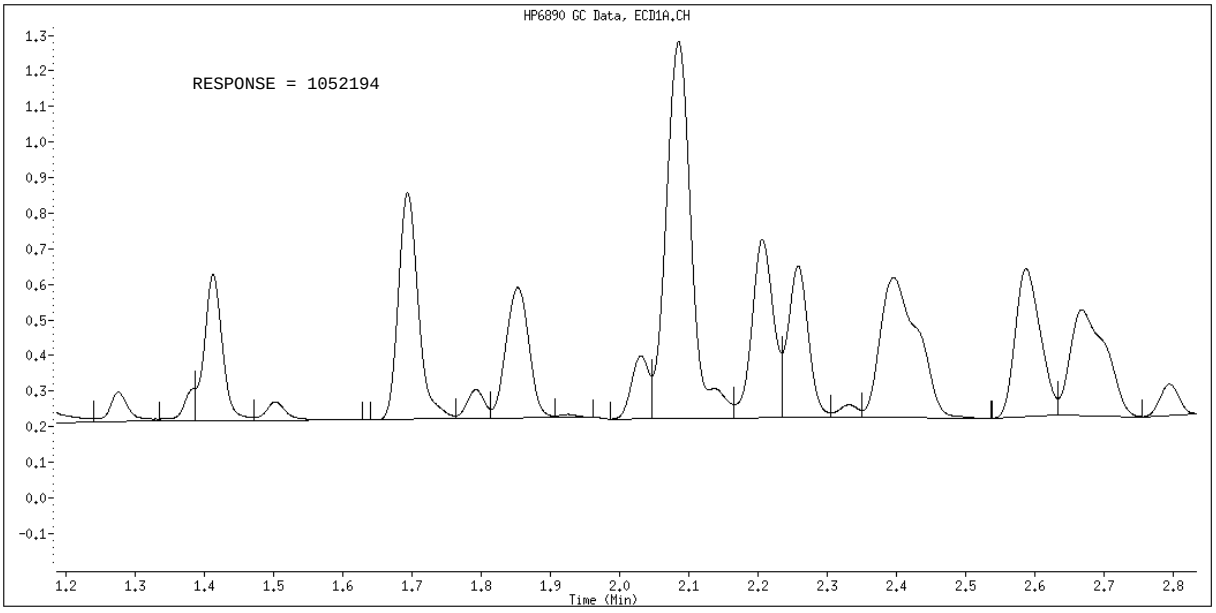
Instrument: a2hp13.i
Operator:
Column diameter: 0.53



Data File Name: 028F2801.D
Inj. Date and Time: 08-FEB-2010 22:36
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:52
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,4
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 29 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

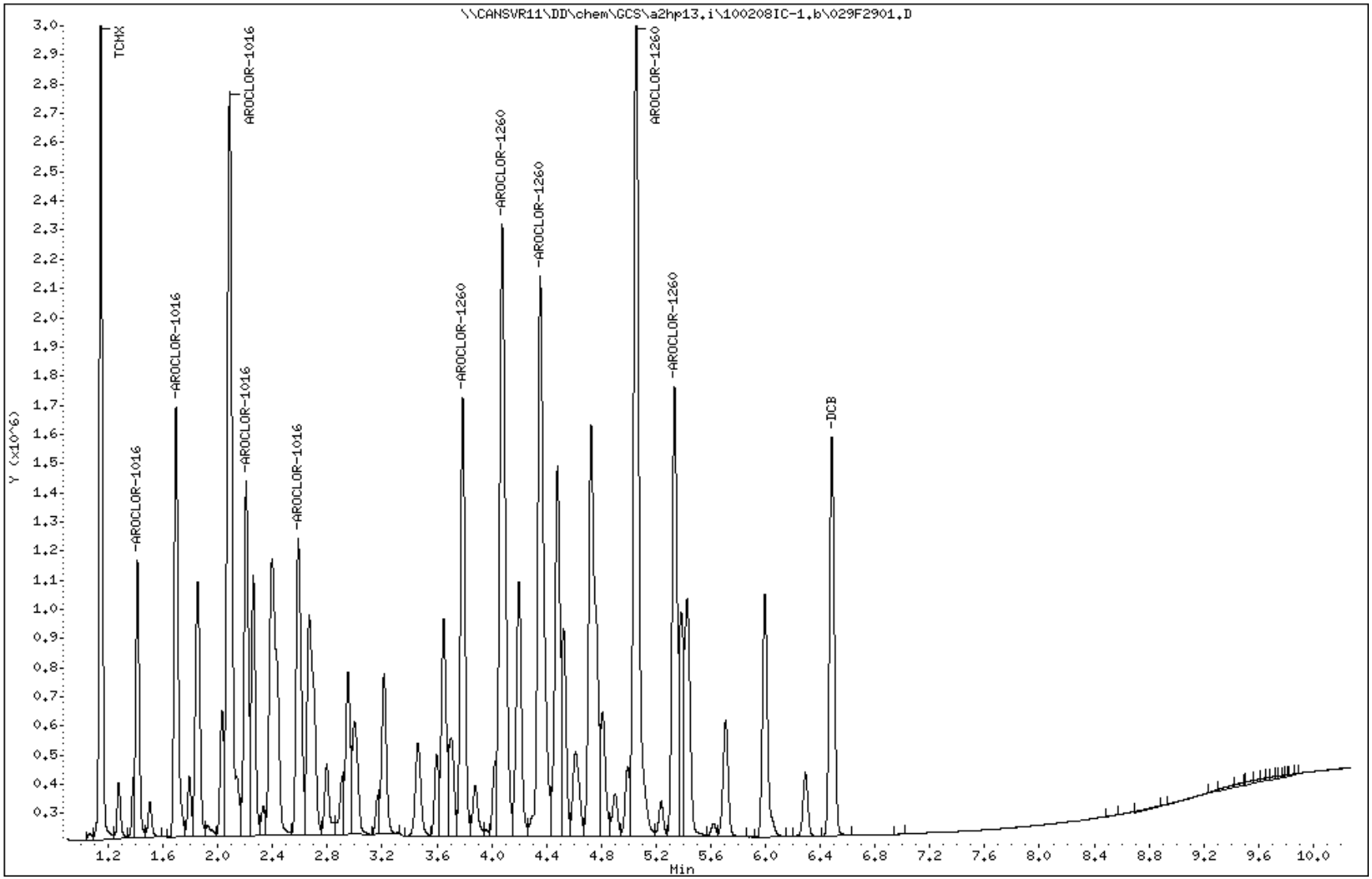
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	2946075	0.02500	0.02371		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.413	1.419	-0.006	1704759	0.50000	0.4793	80.00- 120.00	100.00(M)
1.694	1.703	-0.009	3000570	0.50000	0.4875	118.89- 198.15	176.01
2.085	2.095	-0.010	6536061	0.50000	0.5036	250.35- 417.24	383.40
2.206	2.217	-0.011	2666709	0.50000	0.5007	104.90- 174.84	156.43
2.588	2.599	-0.011	2633951	0.50000	0.4966	107.74- 179.57	154.51
Average of Peak Amounts =					0.49354		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.789	3.800	-0.011	1504383	0.50000	0.4984	80.00- 120.00	100.00
4.076	4.088	-0.012	2098213	0.50000	0.4964	103.77- 172.95	139.47
4.354	4.366	-0.012	1920999	0.50000	0.4988	95.99- 159.98	127.69
5.054	5.066	-0.012	2920852	0.50000	0.5073	151.41- 252.34	194.16
5.335	5.346	-0.011	1541704	0.50000	0.5028	81.94- 136.57	102.48
Average of Peak Amounts =					0.50074		
$ 9 DCB					CAS #: 2051-24-3		
6.484	6.483	0.001	1365386	0.02500	0.02461		

QC Flag Legend

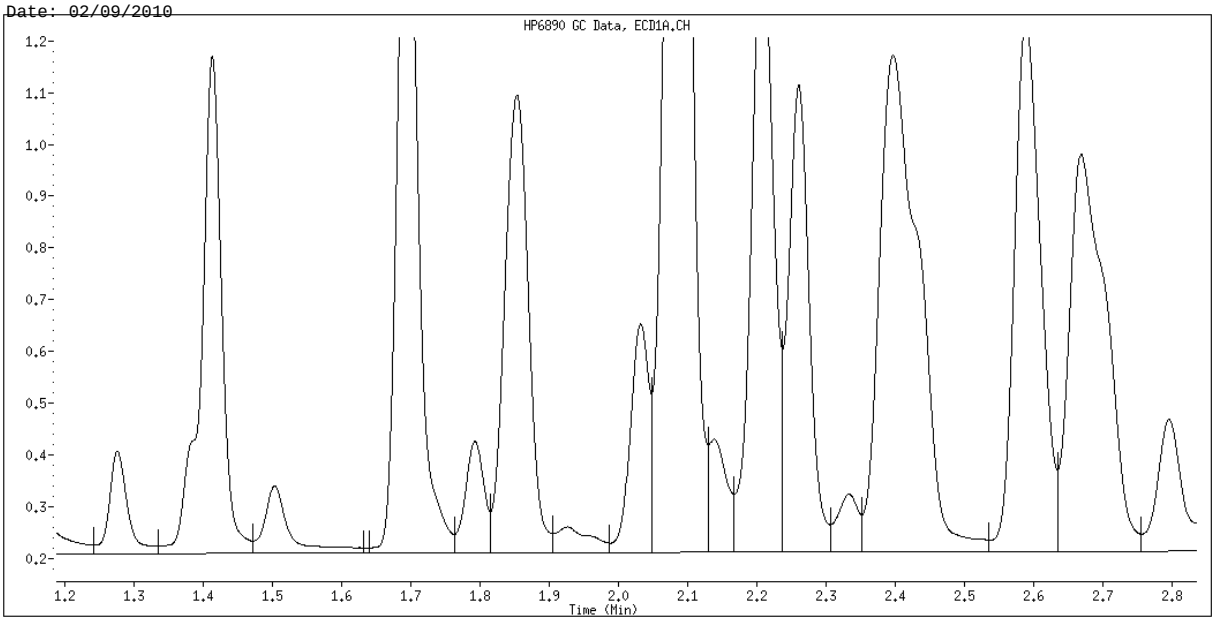
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
Date : 08-FEB-2010 22:52
Client ID:
Sample Info: 1660,,1,4

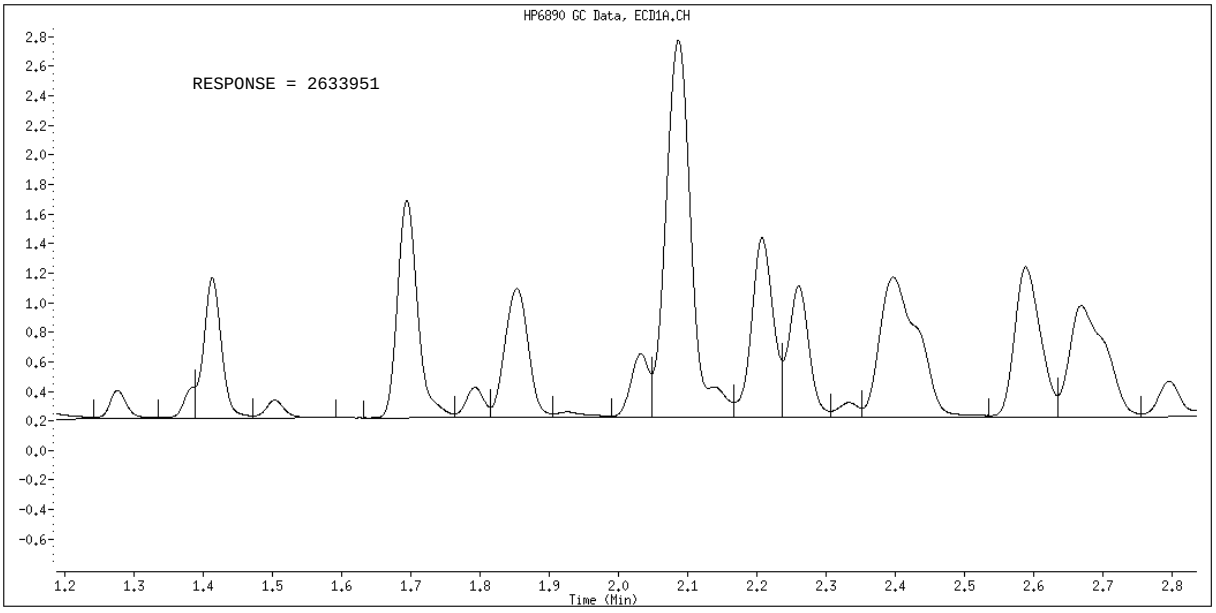
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 029F2901.D
Inj. Date and Time: 08-FEB-2010 22:52
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

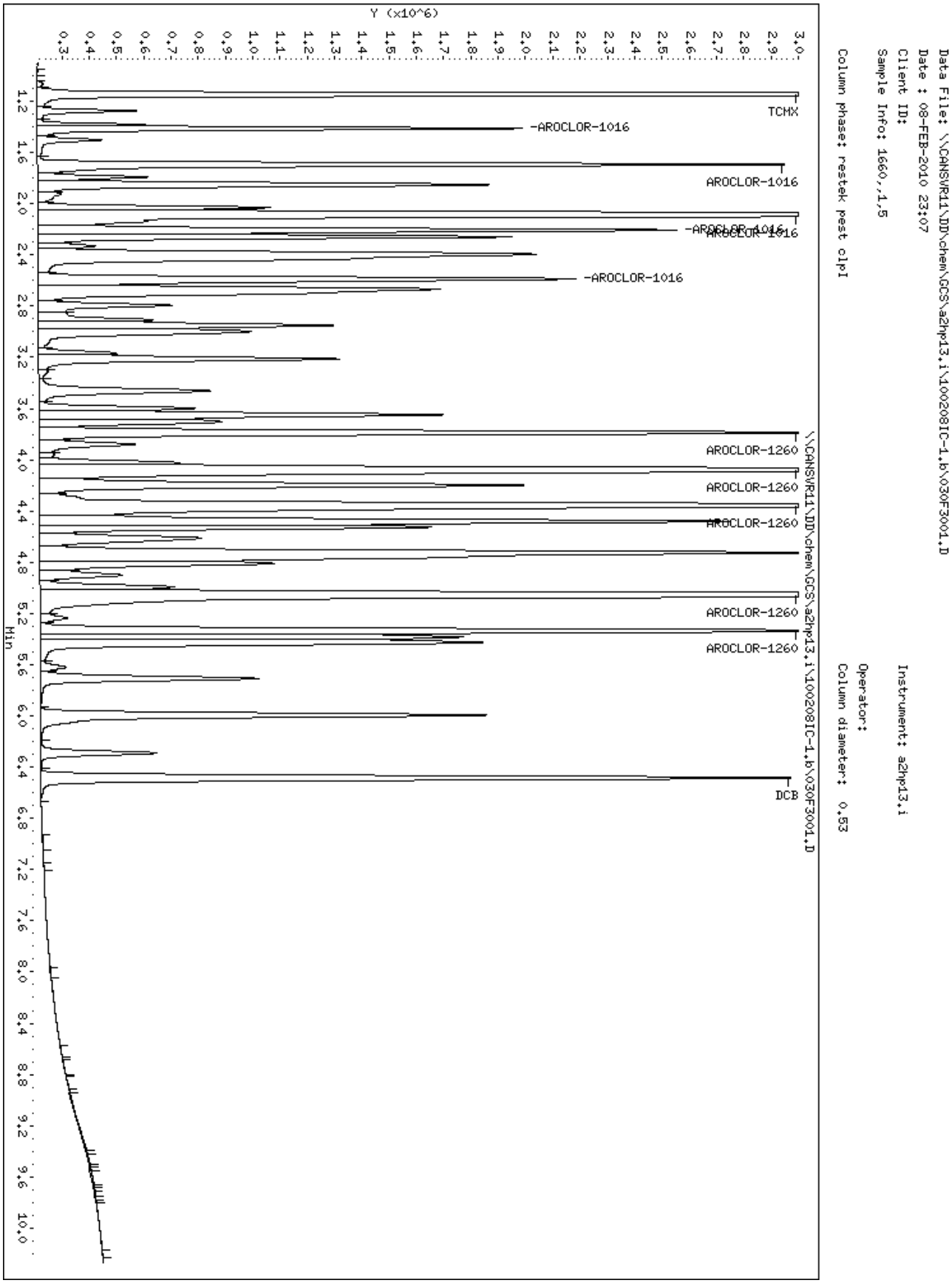
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 23:07
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,5
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 30 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

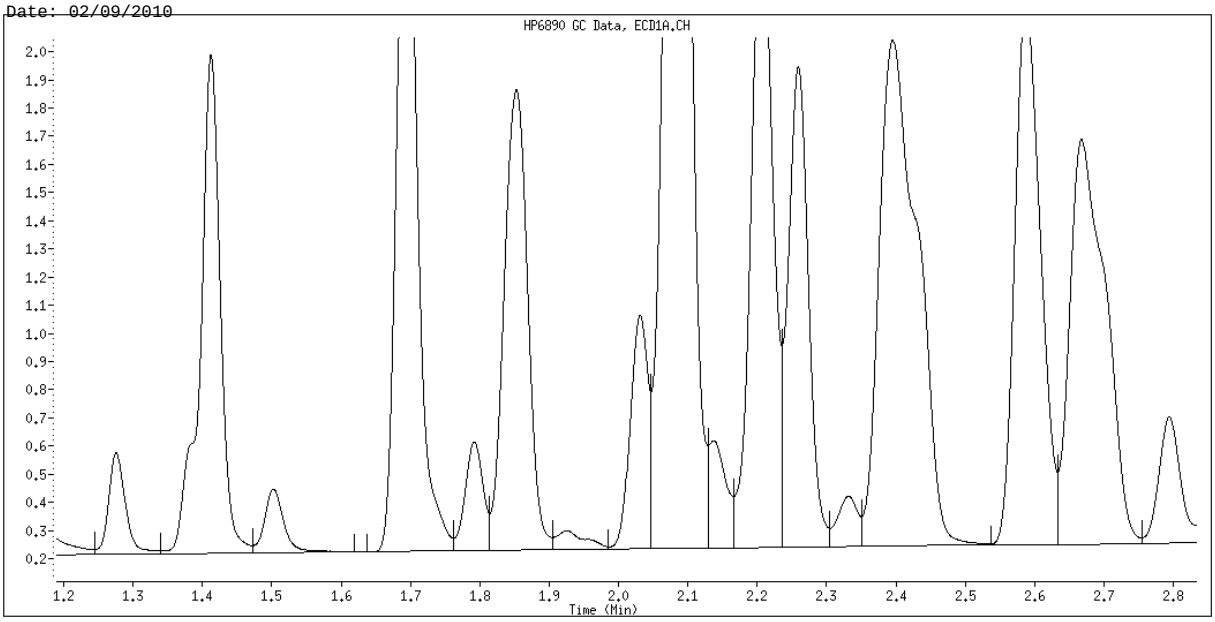
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	5775199	0.05000	0.04649		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.413	-0.001	3191408	1.00000	0.8973	80.00- 120.00	100.00(M)
1.693	1.694	-0.001	5678041	1.00000	0.9226	143.75- 239.59	177.92
2.084	2.086	-0.002	12630703	1.00000	0.9732	299.95- 499.92	395.77
2.206	2.207	-0.001	5176357	1.00000	0.9719	122.54- 204.23	162.20
2.588	2.588	0.000	5179034	1.00000	0.9765	130.89- 218.15	162.28
	Average of Peak Amounts =				0.94830		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.788	3.789	-0.001	2930328	1.00000	0.9708	80.00- 120.00	100.00
4.075	4.077	-0.002	4152767	1.00000	0.9826	105.37- 175.62	141.72
4.354	4.355	-0.001	3851293	1.00000	1.000	97.55- 162.58	131.43
5.054	5.054	0.000	5808119	1.00000	1.009	154.28- 257.13	198.21
5.334	5.336	-0.002	3085732	1.00000	1.006	84.36- 140.61	105.30
	Average of Peak Amounts =				0.99368		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	2748454	0.05000	0.04955		

QC Flag Legend

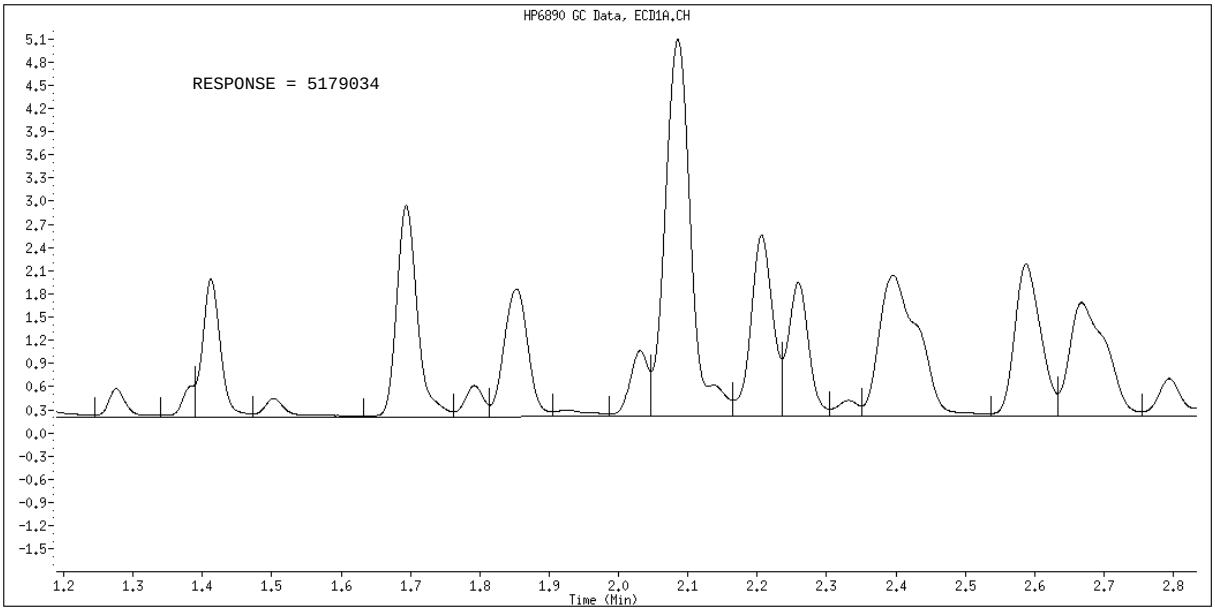
M - Compound response manually integrated.


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
Date : 08-FEB-2010 23:07
Client ID:
Sample Info: 1660,,1.5
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
TCMX
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
DCB
\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
Min

Data File Name: 030F3001.D
Inj. Date and Time: 08-FEB-2010 23:07
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

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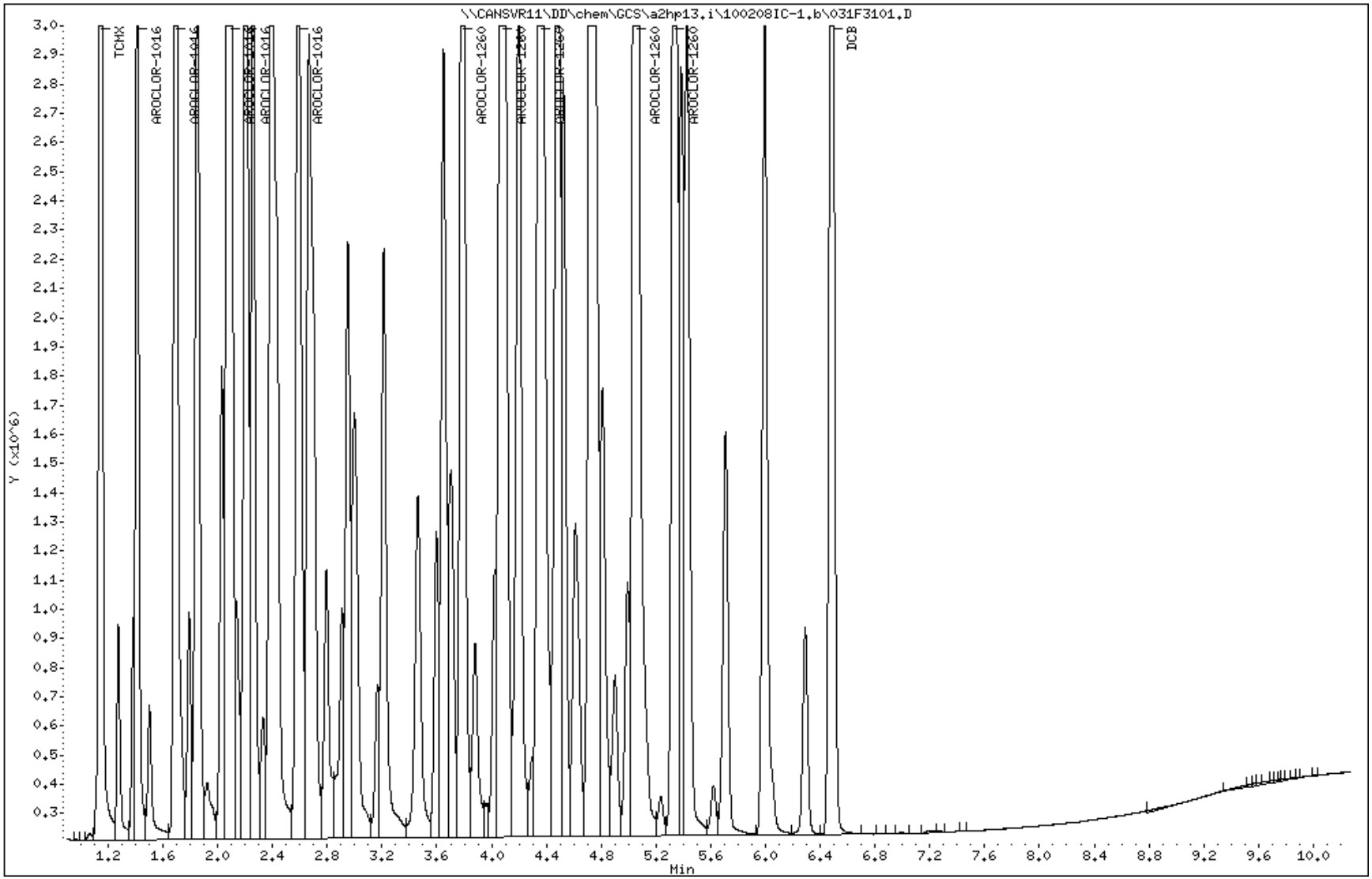
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 23:21
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,6
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 31 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.143	1.144	-0.001	11251198	0.10000	0.09056		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.411	1.419	-0.008	5856334	2.00000	1.647	80.00- 120.00	100.00
1.692	1.703	-0.011	10274046	2.00000	1.669	118.89- 198.15	175.43
2.084	2.095	-0.011	21717964	2.00000	1.673	250.35- 417.24	370.85
2.204	2.217	-0.013	9608926	2.00000	1.804	104.90- 174.84	164.08
2.586	2.599	-0.013	9619560	2.00000	1.814	107.74- 179.57	164.26
	Average of Peak Amounts =				1.72140		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.800	-0.013	5250564	2.00000	1.740	80.00- 120.00	100.00
4.075	4.088	-0.013	7275828	2.00000	1.721	103.77- 172.95	138.57
4.353	4.366	-0.013	6766760	2.00000	1.757	95.99- 159.98	128.88
5.054	5.066	-0.012	9969924	2.00000	1.732	151.41- 252.34	189.88
5.334	5.346	-0.012	5304446	2.00000	1.730	81.94- 136.57	101.03
	Average of Peak Amounts =				1.73600		
$ 9 DCB					CAS #: 2051-24-3		
6.484	6.483	0.001	4411722	0.10000	0.07953		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
Date : 08-FEB-2010 23:21
Client ID:
Sample Info: 1660,,1,6

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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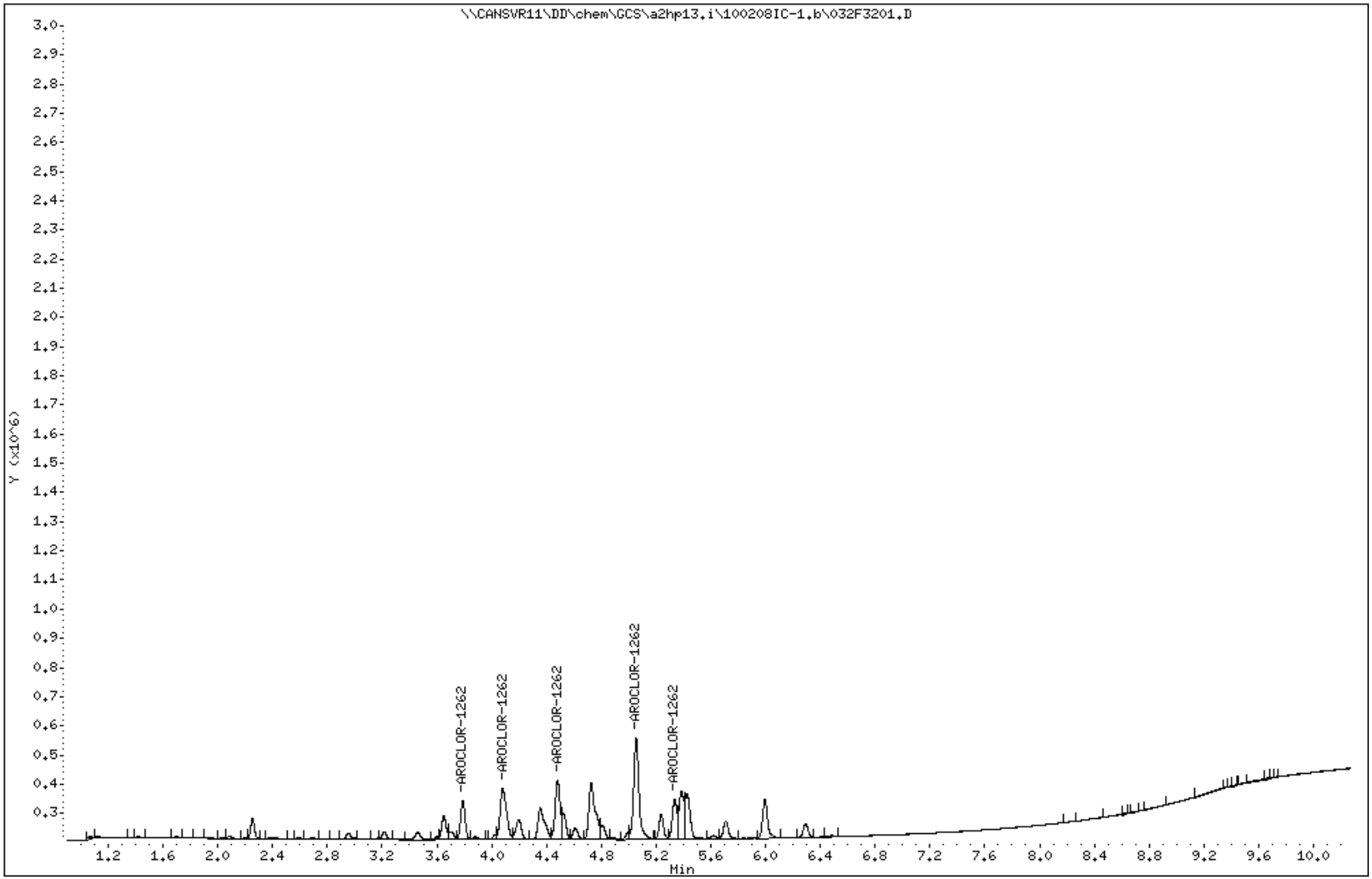
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
Lab Smp Id: 1262
Inj Date : 08-FEB-2010 23:37
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,1
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 32 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	132259	0.05000	0.05626	75.00- 125.00	100.00
4.078	4.079	-0.001	175323	0.05000	0.05636	98.90- 164.83	132.56
4.481	4.481	0.000	203044	0.05000	0.05590	115.68- 192.80	153.52
5.054	5.054	0.000	344431	0.05000	0.05392	208.14- 346.90	260.42
5.335	5.336	-0.001	135634	0.05000	0.05585	78.27- 130.46	102.55
		Average of Peak Amounts =			0.05566		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
Date : 08-FEB-2010 23:37
Client ID:
Sample Info: 1262,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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PCB 8082/608

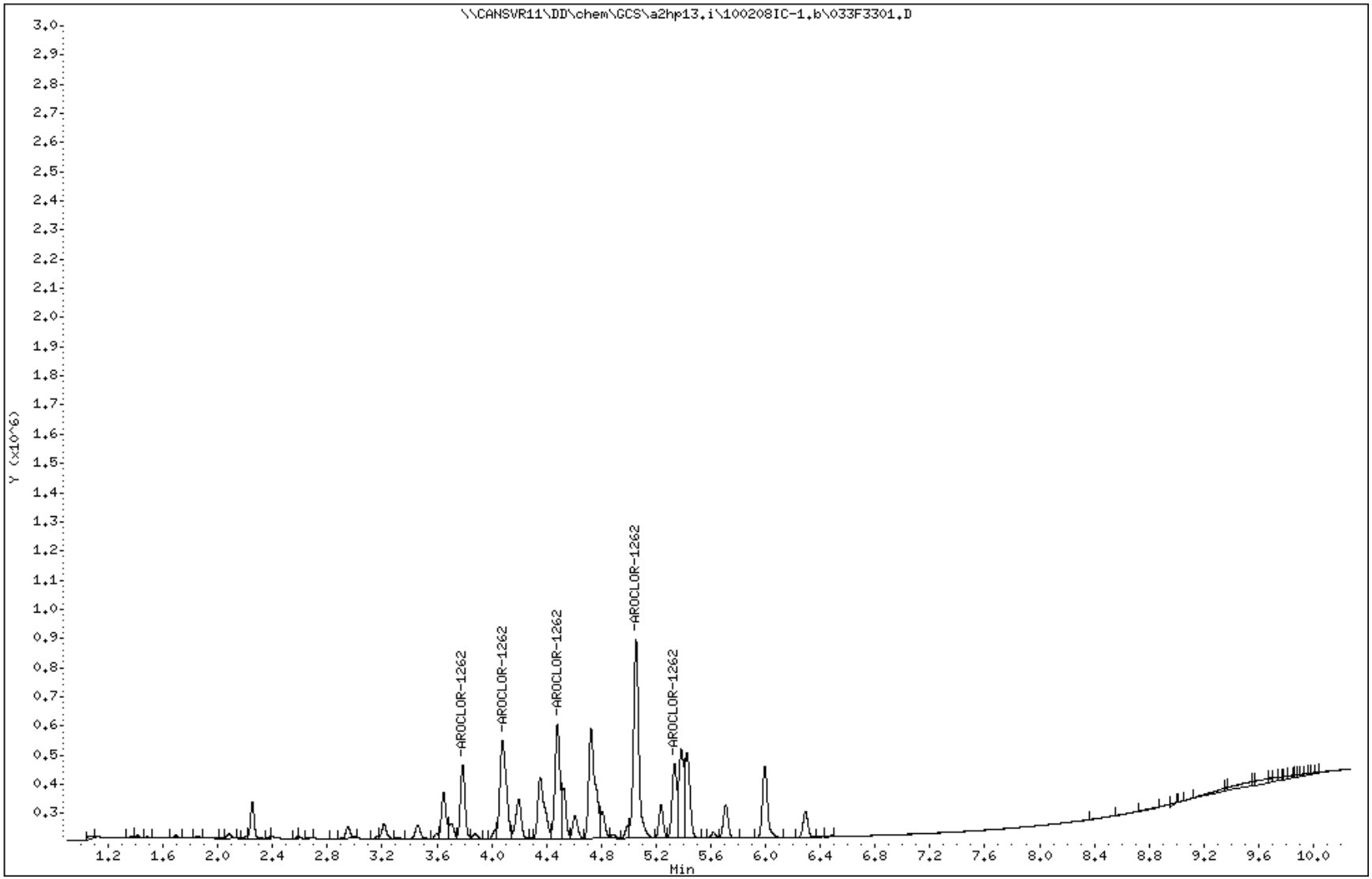
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
Lab Smp Id: 1262
Inj Date : 08-FEB-2010 23:52
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,2
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 33 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.787	3.788	-0.001	254625	0.10000	0.1083	75.00- 125.00	100.00
4.078	4.079	-0.001	336788	0.10000	0.1083	98.90- 164.83	132.27
4.479	4.481	-0.002	391610	0.10000	0.1078	115.68- 192.80	153.80
5.053	5.054	-0.001	680132	0.10000	0.1065	208.14- 346.90	267.11
5.334	5.336	-0.002	253522	0.10000	0.1044	78.27- 130.46	99.57
		Average of Peak Amounts =			0.10706		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
Date : 08-FEB-2010 23:52
Client ID:
Sample Info: 1262,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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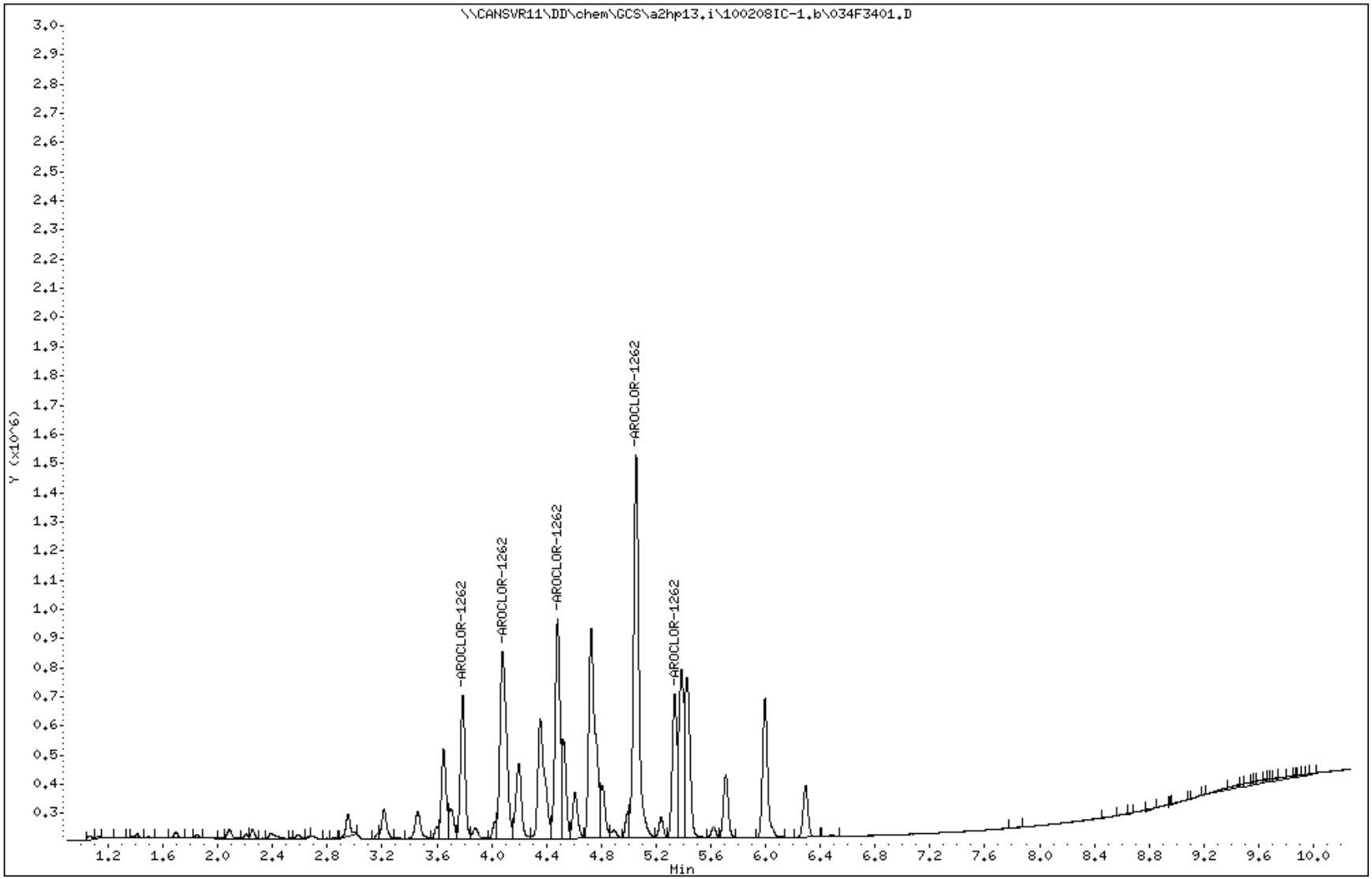
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:06
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,3
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 34 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	491305	0.20000	0.2090	75.00- 125.00	100.00
4.078	4.079	-0.001	639653	0.20000	0.2056	98.90- 164.83	130.19
4.480	4.481	-0.001	750581	0.20000	0.2066	115.68- 192.80	152.77
5.054	5.054	0.000	1313826	0.20000	0.2057	208.14- 346.90	267.42
5.336	5.336	0.000	490755	0.20000	0.2021	78.27- 130.46	99.89
		Average of Peak Amounts =			0.20580		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
Date : 09-FEB-2010 00:06
Client ID:
Sample Info: 1262,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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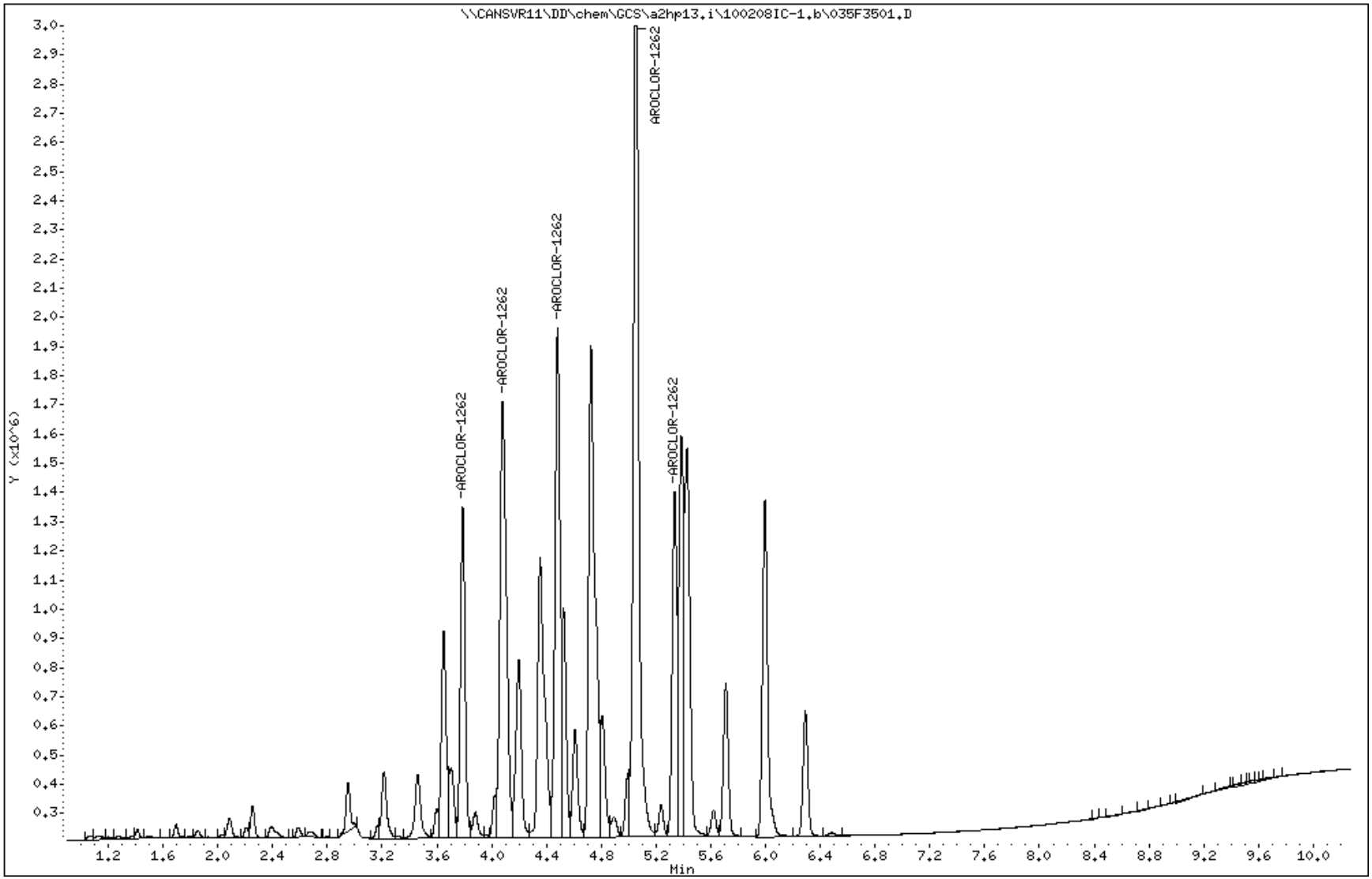
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:21
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,4
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 35 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	1133774	0.50000	0.4823	75.00- 125.00	100.00
4.078	4.079	-0.001	1495007	0.50000	0.4806	98.90- 164.83	131.86
4.480	4.481	-0.001	1748690	0.50000	0.4814	115.68- 192.80	154.24
5.053	5.054	-0.001	3146486	0.50000	0.4926	208.14- 346.90	277.52
5.335	5.336	-0.001	1183261	0.50000	0.4872	78.27- 130.46	104.36
		Average of Peak Amounts =			0.48482		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
Date : 09-FEB-2010 00:21
Client ID:
Sample Info: 1262,,1,4

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

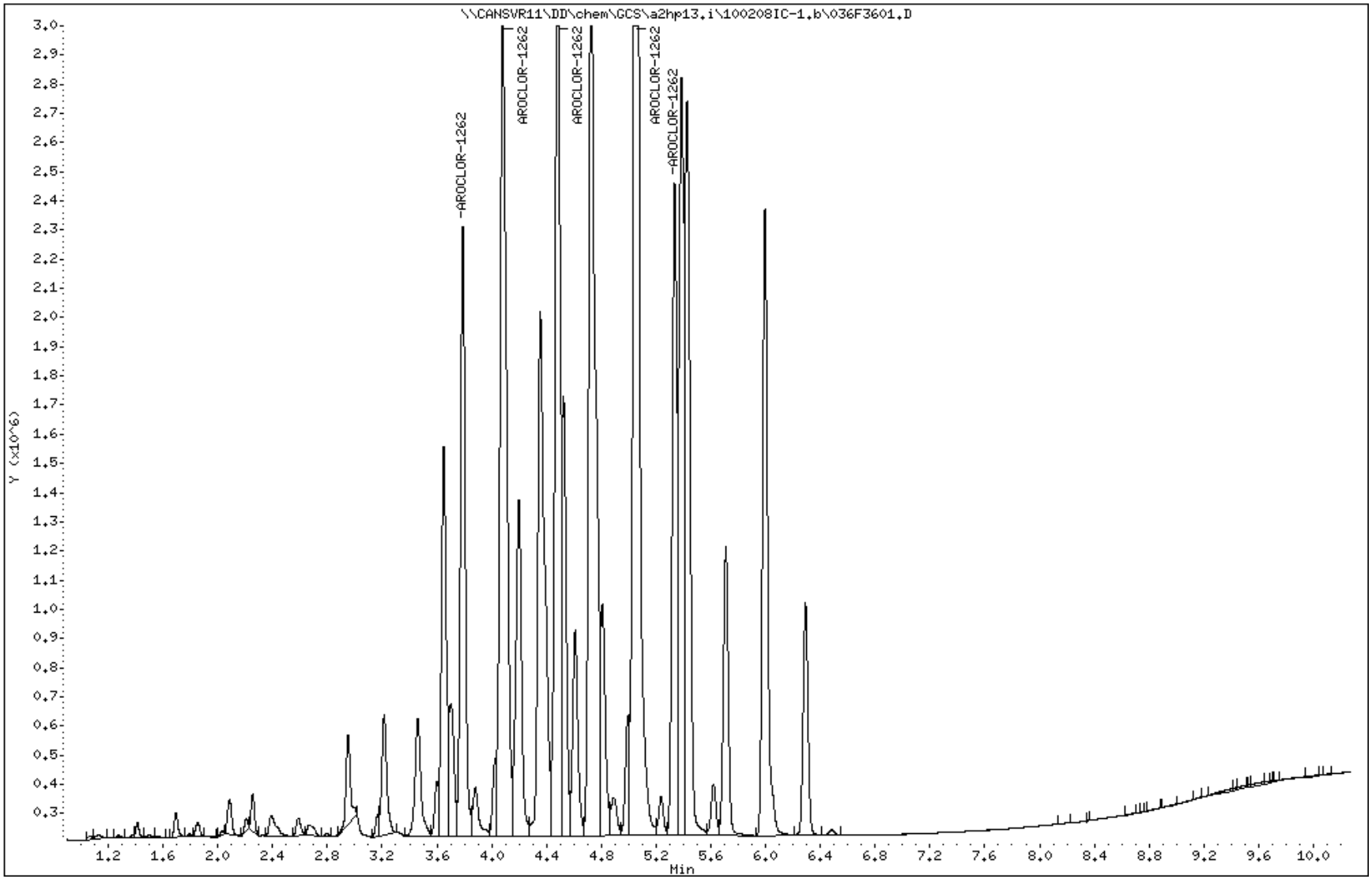
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:36
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,5
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 36 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	2088075	1.00000	0.8882	75.00- 125.00	100.00
4.079	4.079	0.000	2796289	1.00000	0.8989	98.90- 164.83	133.92
4.481	4.481	0.000	3287716	1.00000	0.9052	115.68- 192.80	157.45
5.054	5.054	0.000	5871569	1.00000	0.9192	208.14- 346.90	281.20
5.335	5.336	-0.001	2235996	1.00000	0.9207	78.27- 130.46	107.08
		Average of Peak Amounts =			0.90644		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
Date : 09-FEB-2010 00:36
Client ID:
Sample Info: 1262,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



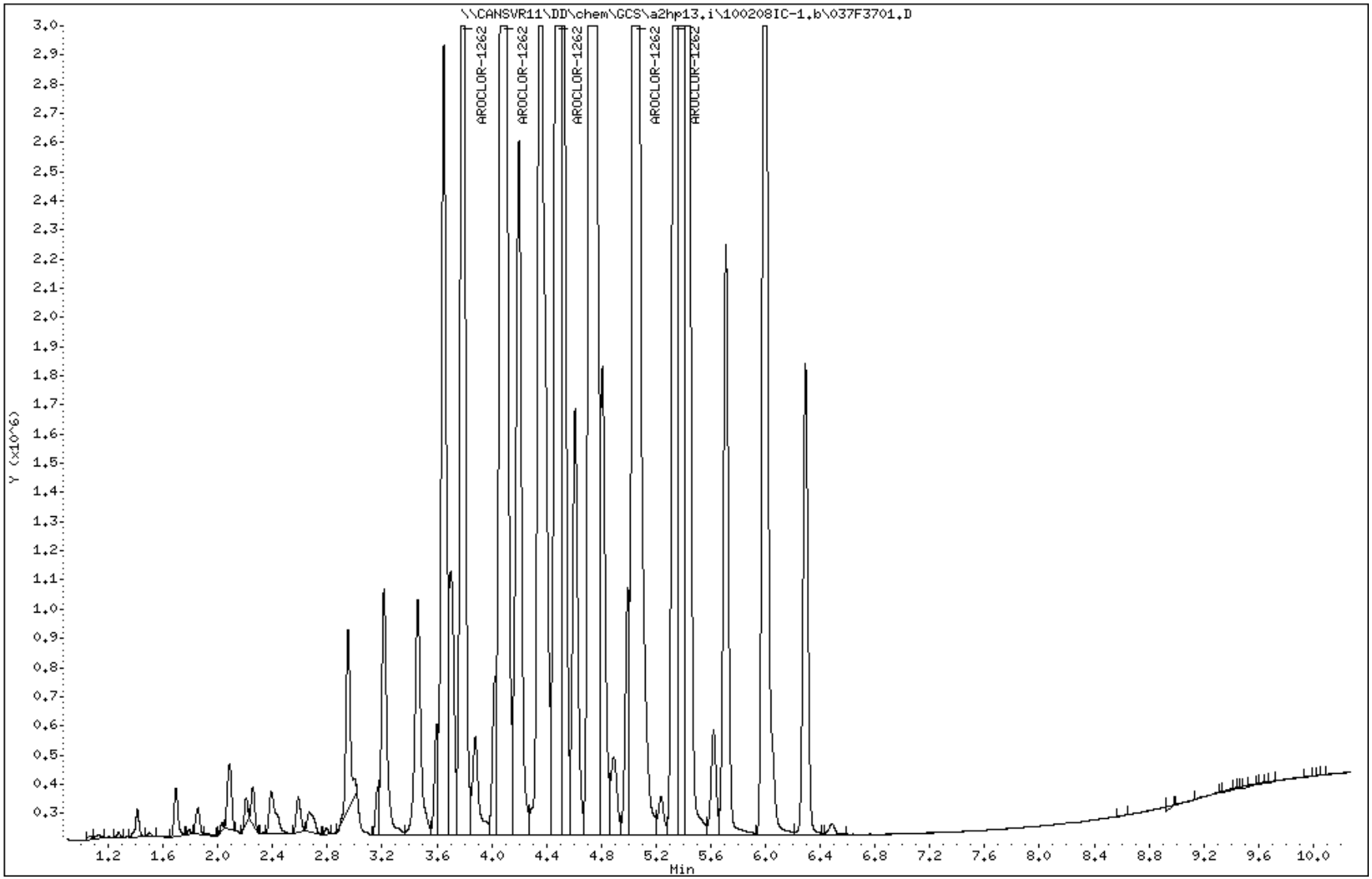
TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:51
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,6
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 37 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	4202237	2.00000	1.788	75.00- 125.00	100.00
4.079	4.079	0.000	5609737	2.00000	1.803	98.90- 164.83	133.49
4.481	4.481	0.000	6554882	2.00000	1.805	115.68- 192.80	155.99
5.054	5.054	0.000	11809081	2.00000	1.849	208.14- 346.90	281.02
5.336	5.336	0.000	4533729	2.00000	1.867	78.27- 130.46	107.89
		Average of Peak Amounts =			1.82240		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
Date : 09-FEB-2010 00:51
Client ID:
Sample Info: 1262,,1,6
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53



1330

North Canton

TestAmerica North Canton

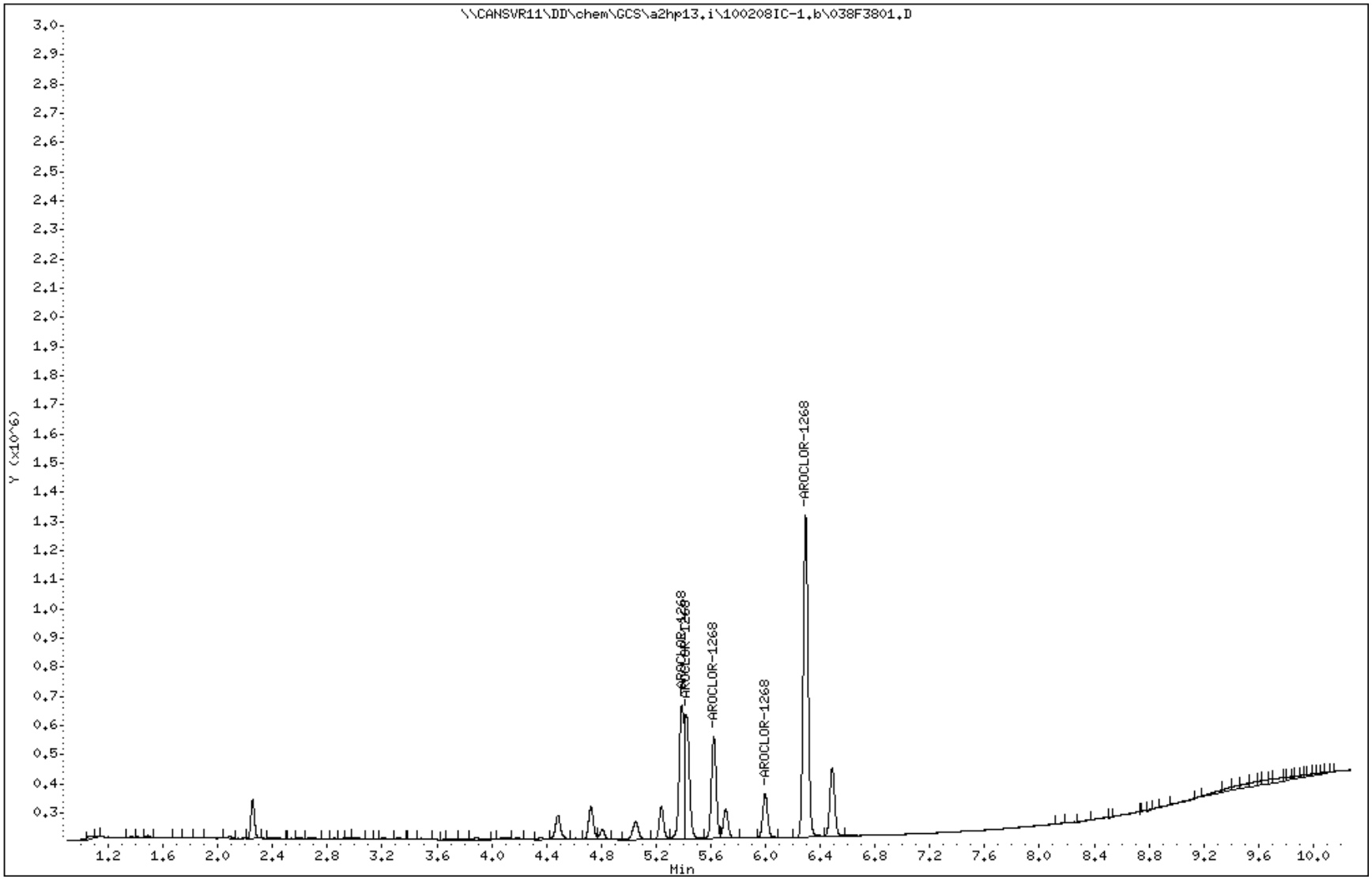
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:06
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,1
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 38 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	460589	0.05000	0.05417	80.00- 120.00	100.00
5.421	5.439	-0.018	426303	0.05000	0.05321	82.56- 137.59	92.56
5.622	5.630	-0.008	350705	0.05000	0.05334	2.72- 4.53	76.14
5.997	6.005	-0.008	151530	0.05000	0.05363	84.36- 140.61	32.90
6.293	6.302	-0.009	1101678	0.05000	0.05482	17.26- 28.76	239.19
		Average of Peak Amounts =			0.05383		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Date : 09-FEB-2010 01:06
Client ID:
Sample Info: 1268,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

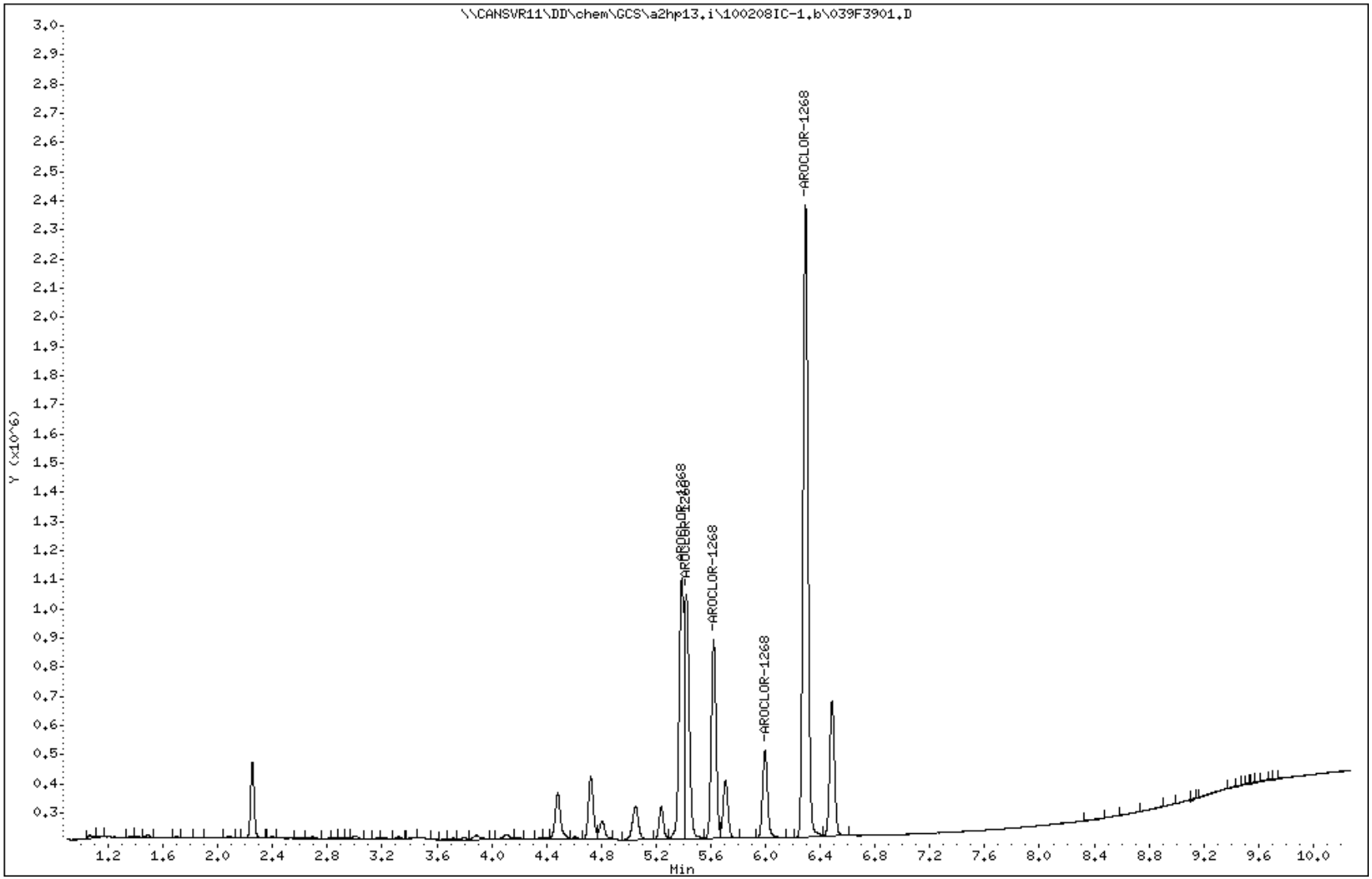
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:21
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,2
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 39 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.387	5.397	-0.010	893898	0.10000	0.1051	80.00- 120.00	100.00
5.421	5.439	-0.018	838830	0.10000	0.1047	82.56- 137.59	93.84
5.620	5.630	-0.010	681804	0.10000	0.1037	2.72- 4.53	76.27
5.996	6.005	-0.009	300089	0.10000	0.1062	84.36- 140.61	33.57
6.291	6.302	-0.011	2170108	0.10000	0.1080	17.26- 28.76	242.77
		Average of Peak Amounts =			0.10554		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Date : 09-FEB-2010 01:21
Client ID:
Sample Info: 1268,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:37
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,3
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 40 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	1604518	0.20000	0.1887	80.00- 120.00	100.00
5.422	5.439	-0.017	1519826	0.20000	0.1897	82.56- 137.59	94.72
5.621	5.630	-0.009	1230544	0.20000	0.1872	2.72- 4.53	76.69
5.997	6.005	-0.008	515194	0.20000	0.1823	84.36- 140.61	32.11
6.292	6.302	-0.010	3754156	0.20000	0.1868	17.26- 28.76	233.97
		Average of Peak Amounts =			0.18694		

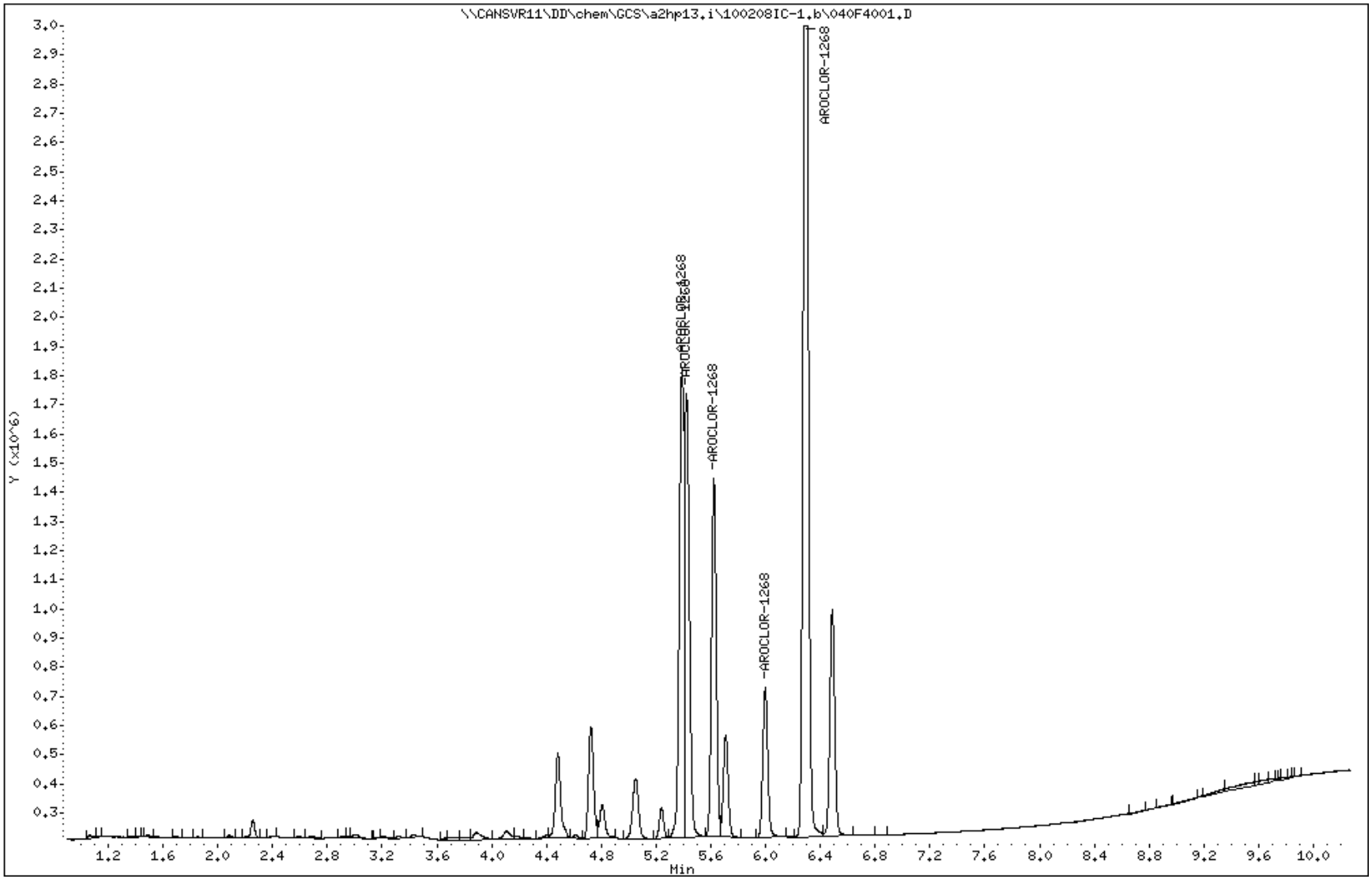
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Date : 09-FEB-2010 01:37
Client ID:
Sample Info: 1268,,1,3

Column phase: restek pest clpI

Instrument: a2hp13.i

Operator:

Column diameter: 0.53



TestAmerica North Canton

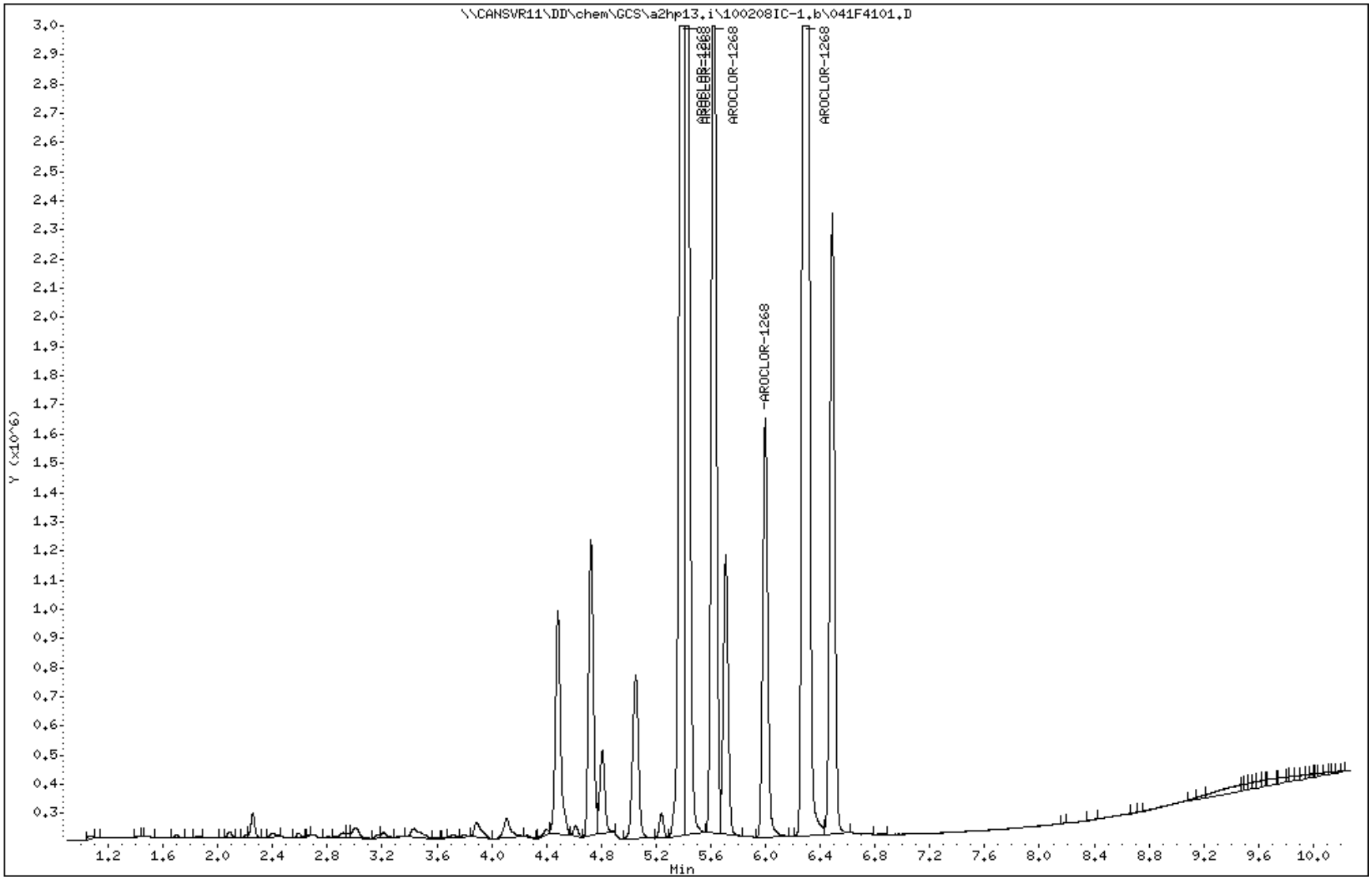
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:52
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,4
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 41 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.389	5.397	-0.008	4361223	0.50000	0.5129	80.00- 120.00	100.00
5.421	5.439	-0.018	4134029	0.50000	0.5160	82.56- 137.59	94.79
5.621	5.630	-0.009	3394525	0.50000	0.5163	2.72- 4.53	77.83
5.996	6.005	-0.009	1433306	0.50000	0.5073	84.36- 140.61	32.86
6.293	6.302	-0.009	10152678	0.50000	0.5052	17.26- 28.76	232.79
		Average of Peak Amounts =			0.51154		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Date : 09-FEB-2010 01:52
Client ID:
Sample Info: 1268,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

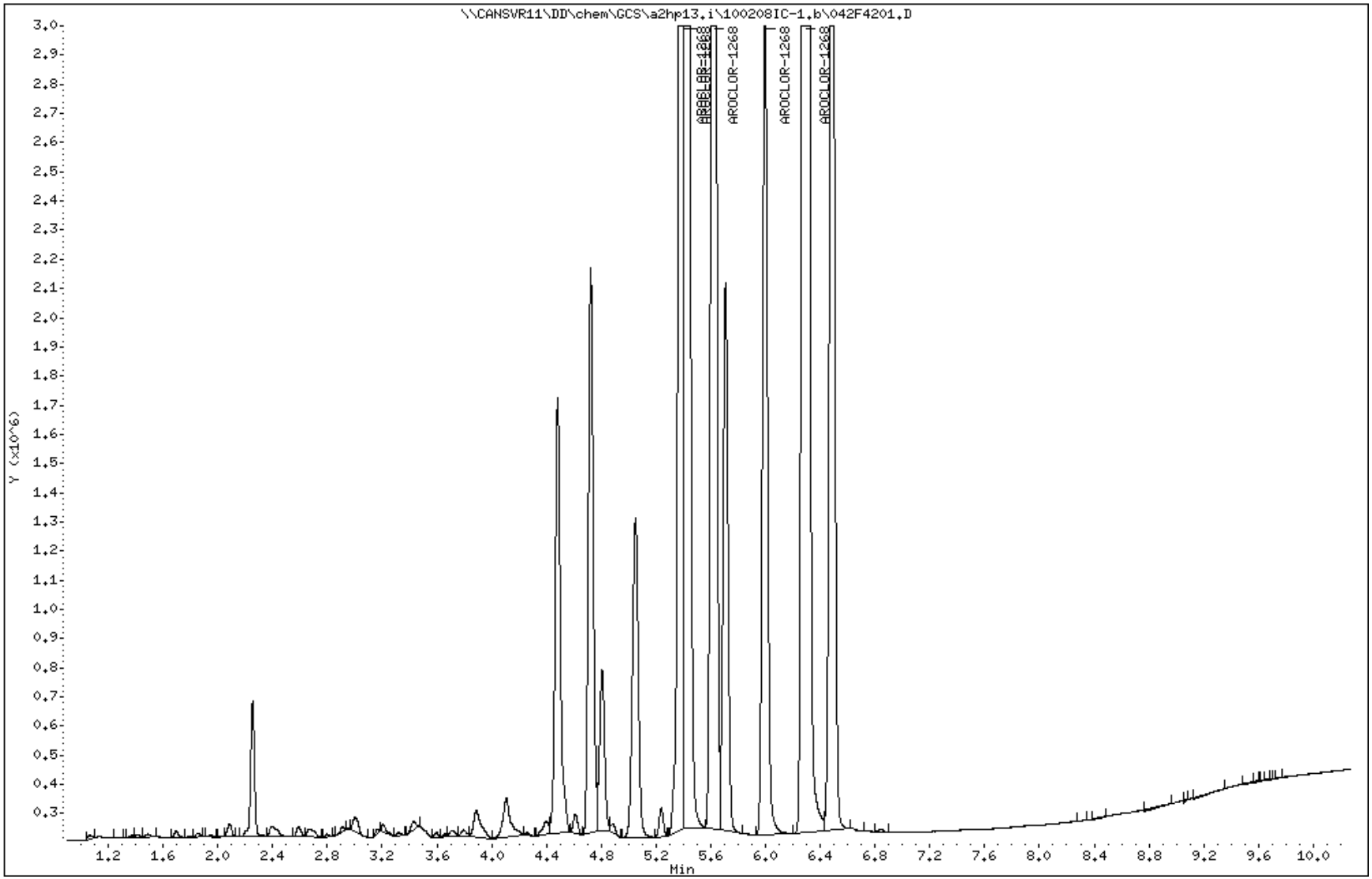
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 02:07
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,5
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 42 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	8455422	1.00000	0.9945	80.00- 120.00	100.00
5.421	5.439	-0.018	8025460	1.00000	1.002	82.56- 137.59	94.91
5.620	5.630	-0.010	6622531	1.00000	1.007	2.72- 4.53	78.32
5.995	6.005	-0.010	2907263	1.00000	1.029	84.36- 140.61	34.38
6.291	6.302	-0.011	20048105	1.00000	0.9977	17.26- 28.76	237.10
		Average of Peak Amounts =			1.00604		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Date : 09-FEB-2010 02:07
Client ID:
Sample Info: 1268,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

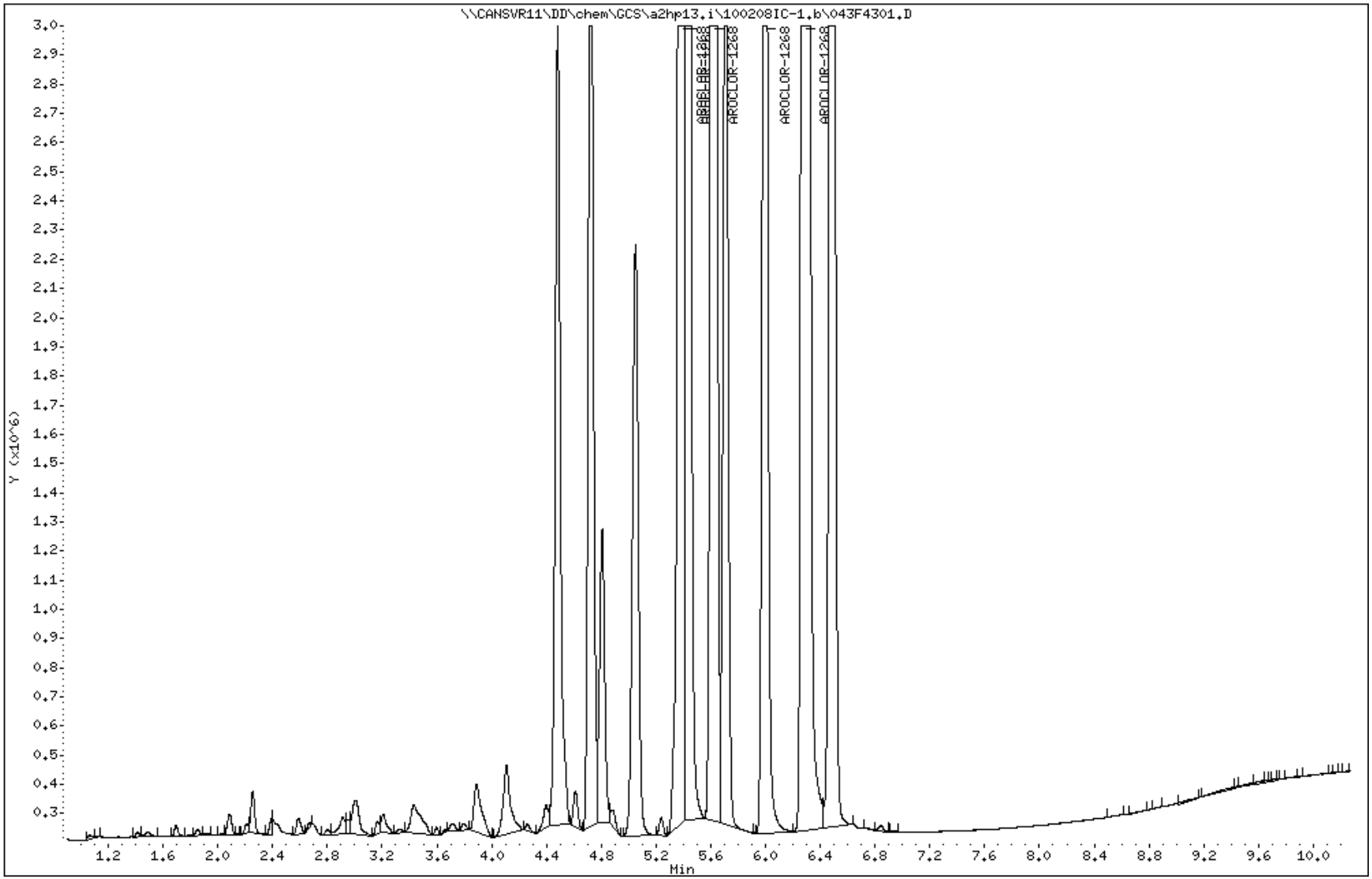
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 02:22
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,6
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 43 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	15327765	2.00000	1.803	80.00- 120.00	100.00
5.422	5.439	-0.017	14527923	2.00000	1.813	82.56- 137.59	94.78
5.620	5.630	-0.010	12097268	2.00000	1.840	2.72- 4.53	78.92
5.996	6.005	-0.009	5143258	2.00000	1.820	84.36- 140.61	33.56
6.292	6.302	-0.010	35423594	2.00000	1.763	17.26- 28.76	231.11
		Average of Peak Amounts =			1.80780		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
Date : 09-FEB-2010 02:22
Client ID:
Sample Info: 1268,,1,6

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Report Date: 09-Feb-2010 09:33

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 09-FEB-2010 08:14
Lab File ID: 046F0101.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: 1CV Quant Type: ESTD
Method: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF1	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 AROCLOR-1016(1)	3556491	3431818	0.010	3.50549	15.00000	Averaged
(2)	6154428	5423225	0.010	11.88093	15.00000	Averaged
(3)	12978864	11295129	0.010	12.97290	15.00000	Averaged
(4)	5325964	4692669	0.010	11.89071	15.00000	Averaged
(5)	5303493	4910283	0.010	7.41416	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2857020	0.010	5.34443	15.00000	Averaged
(2)	4226485	4010594	0.010	5.10806	15.00000	Averaged
(3)	3850847	3675256	0.010	4.55980	15.00000	Averaged
(4)	5757318	5880421	0.010	-2.13821	15.00000	Averaged
(5)	3066451	3179542	0.010	-3.68803	15.00000	Averaged

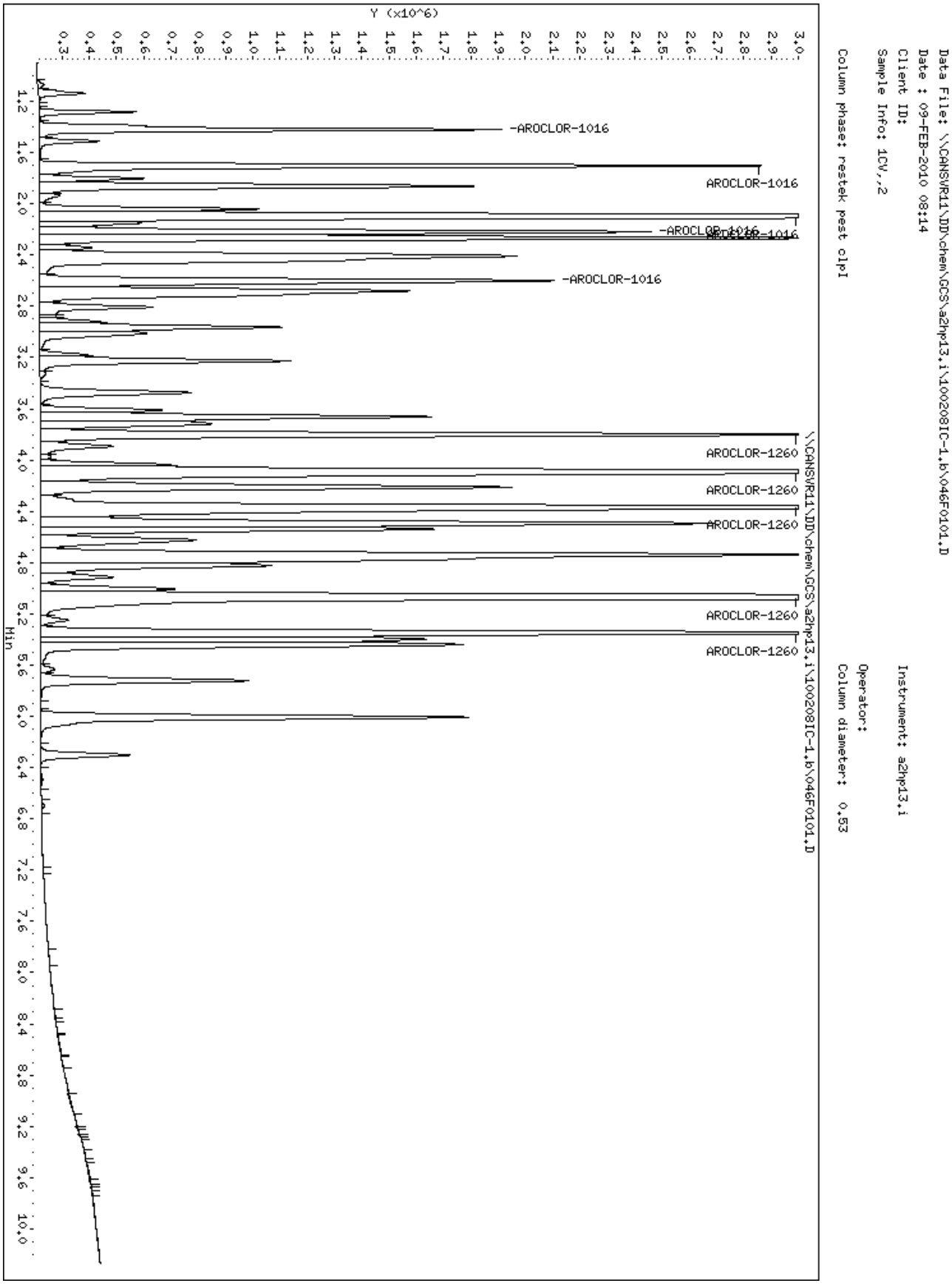
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Report Date: 09-Feb-2010 09:33

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Lab Smp Id: 1CV
Inj Date : 09-FEB-2010 08:14
Operator : Inst ID: a2hp13.i
Smp Info : 1CV,,2
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 09:33 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 46 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
3 AROCLOR-1016						CAS #: 12674-11-2		
1.420	1.420	0.000	3431818	1.00000	0.9649	80.00- 120.00		100.00
1.702	1.702	0.000	5423225	1.00000	0.8812	118.52- 197.53		158.03
2.096	2.096	0.000	11295129	1.00000	0.8703	246.85- 411.41		329.13
2.217	2.217	0.000	4692669	1.00000	0.8811	102.56- 170.93		136.74
2.599	2.599	0.000	4910283	1.00000	0.9258	107.31- 178.85		143.08
		Average of Peak Amounts =			0.90466			
8 AROCLOR-1260						CAS #: 11096-82-5		
3.801	3.801	0.000	2857020	1.00000	0.9466	80.00- 120.00		100.00
4.089	4.089	0.000	4010594	1.00000	0.9489	105.28- 175.47		140.38
4.366	4.366	0.000	3675256	1.00000	0.9544	96.48- 160.80		128.64
5.066	5.066	0.000	5880421	1.00000	1.021	154.37- 257.28		205.82
5.347	5.347	0.000	3179542	1.00000	1.037	83.47- 139.11		111.29
		Average of Peak Amounts =			0.98158			


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Date : 09-FEB-2010 08:14
Client ID:
Sample Info: 1CV,.2
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
Min
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B180429

GC Column: RESTEK PEST CLPI ID: 0.53 (mm) Init. Calib. Date(s): 02/08/10 02/09/10

Instrument ID: A2HP13

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 1.16 S2 : 6.52

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		1660	03/01/10	0838	1.16	6.51
02		MRL	03/01/10	0853		
03	B12SS-038M-5	LVTQ31A9	03/01/10	1022	1.16	6.51
04	ATASS-015M-5	LVTT01AE	03/01/10	1036	1.16	6.52
05	ATASS-015M-5	LVTT01CC	03/01/10	1052	1.16	6.52
06	ATASS-015M-5	LVTT01CD	03/01/10	1107	1.16	6.52
07		E009	03/01/10	1121	1.16	6.52
08	LV0FJBLK	LV0FJ1AA	03/01/10	1320	1.16	6.52
09	LV0FJCHK	LV0FJ1AC	03/01/10	1335	1.16	6.52
10		E009	03/01/10	1349	1.16	6.52
11		MRL	03/02/10	0116		
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
S1 = TCMX (+/- 0.10 MINUTES)
S2 = DCB (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 01-Mar-2010 17:03

Calibration History

Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Start Cal Date: 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
09-FEB-2010 01:06	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
08-FEB-2010 23:37	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
08-FEB-2010 22:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
08-FEB-2010 20:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
08-FEB-2010 19:06	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
08-FEB-2010 17:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
08-FEB-2010 16:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Cal Level: 2 , Cal Amount: 0.10000		
09-FEB-2010 01:21	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
08-FEB-2010 23:52	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
08-FEB-2010 22:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
08-FEB-2010 20:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
08-FEB-2010 19:21	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
08-FEB-2010 17:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
08-FEB-2010 16:21	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Cal Level: 3 , Cal Amount: 0.20000		
09-FEB-2010 01:37	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
09-FEB-2010 00:06	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
08-FEB-2010 22:36	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
08-FEB-2010 21:07	9-AR2154	

|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D |
|08-FEB-2010 19:36 |3-AR1248 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D |
|08-FEB-2010 18:06 |2-AR1242 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D |
|08-FEB-2010 16:36 |1-AR1232 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D |
+------------------+----------------+--+

+------------------+----------------+--+
| Cal Level: 4 , Cal Amount: 0.50000 |
+==+
|09-FEB-2010 01:52 |14-AR1268 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D |
|09-FEB-2010 00:21 |13-AR1262 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D |
|08-FEB-2010 22:52 |12-AR1660TD |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D |
|08-FEB-2010 21:21 |9-AR2154 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D |
|08-FEB-2010 19:51 |3-AR1248 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D |
|08-FEB-2010 18:22 |2-AR1242 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D |
|08-FEB-2010 16:51 |1-AR1232 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D |
+------------------+----------------+--+

+------------------+----------------+--+
| Cal Level: 5 , Cal Amount: 1.00000 |
+==+
|09-FEB-2010 02:07 |14-AR1268 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D |
|09-FEB-2010 00:36 |13-AR1262 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D |
|08-FEB-2010 23:07 |12-AR1660TD |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D |
|08-FEB-2010 21:36 |9-AR2154 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D |
|08-FEB-2010 20:07 |3-AR1248 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D |
|08-FEB-2010 18:37 |2-AR1242 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D |
|08-FEB-2010 17:06 |1-AR1232 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D |
+------------------+----------------+--+

+------------------+----------------+--+
| Cal Level: 6 , Cal Amount: 2.00000 |
+==+
|09-FEB-2010 02:22 |14-AR1268 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D |
|09-FEB-2010 00:51 |13-AR1262 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D |
|08-FEB-2010 23:21 |12-AR1660TD |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D |
|08-FEB-2010 21:52 |9-AR2154 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D |
|08-FEB-2010 20:22 |3-AR1248 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D |
|08-FEB-2010 18:51 |2-AR1242 |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D |
|08-FEB-2010 17:22 |1-AR1232 |

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|\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D                    |
+------------------+----------------+----------------------------------------+


Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4
+------------------+----------------+----------------------------------------+
|01-MAR-2010 16:33 |12-AR1660TD     |                                        |
|\\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\034F3401.D                       |
|01-MAR-2010 13:49 |12-AR1660TD     |                                        |
|\\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\023F2301.D                       |
|01-MAR-2010 11:21 |12-AR1660td     |                                        |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\013F1301.D                       |
|01-MAR-2010 11:36 |12-AR1660td     |                                        |
|\\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\014F1401.D                       |
|01-MAR-2010 09:52 |all             |                                        |
|\\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\007F0701.D                       |
|01-MAR-2010 09:37 |3-AR1248        |                                        |
|\\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\006F0601.D                       |
|01-MAR-2010 09:22 |2-AR1242        |                                        |
|\\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\005F0501.D                       |
|01-MAR-2010 09:07 |1-AR1232        |                                        |
|\\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\004F0401.D                       |
|01-MAR-2010 08:38 |12-AR1660TD     |                                        |
|\\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\002F0201.D                       |
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Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\002F0201.D
Report Date: 02-Mar-2010 07:26

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 01-MAR-2010 08:38
Lab File ID: 002F0201.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: 1660 Quant Type: ESTD
Method: \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 TCMX	124233510	124481480	0.010	-0.19960	15.00000	Averaged
3 AROCLOR-1016(1)	3556491	3275062	0.010	7.91310	15.00000	Averaged
(2)	6154428	5757002	0.010	6.45756	15.00000	Averaged
(3)	12978864	12481816	0.010	3.82967	15.00000	Averaged
(4)	5325964	5085676	0.010	4.51163	15.00000	Averaged
(5)	5303493	4998490	0.010	5.75098	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2780818	0.010	7.86907	15.00000	Averaged
(2)	4226485	3882586	0.010	8.13677	15.00000	Averaged
(3)	3850847	3568696	0.010	7.32698	15.00000	Averaged
(4)	5757318	5511620	0.010	4.26757	15.00000	Averaged
(5)	3066451	2876520	0.010	6.19382	15.00000	Averaged
$ 9 DCB	55471757	55986240	0.010	-0.92747	15.00000	Averaged

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\002F0201.D
Report Date: 02-Mar-2010 07:26

TestAmerica North Canton

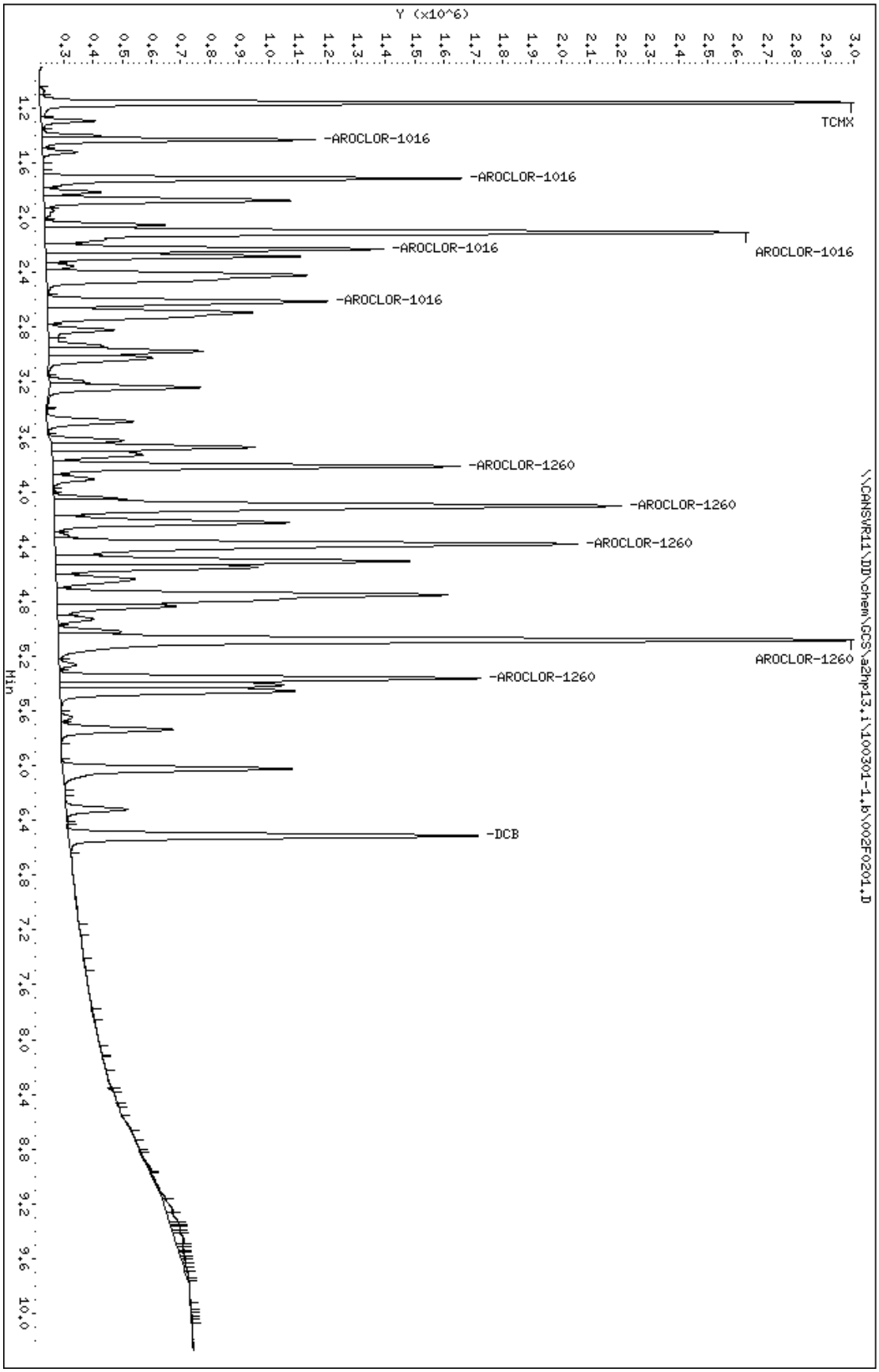
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\002F0201.D
Lab Smp Id: 1660
Inj Date : 01-MAR-2010 08:38
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,2 E009
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 02-Mar-2010 07:21 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

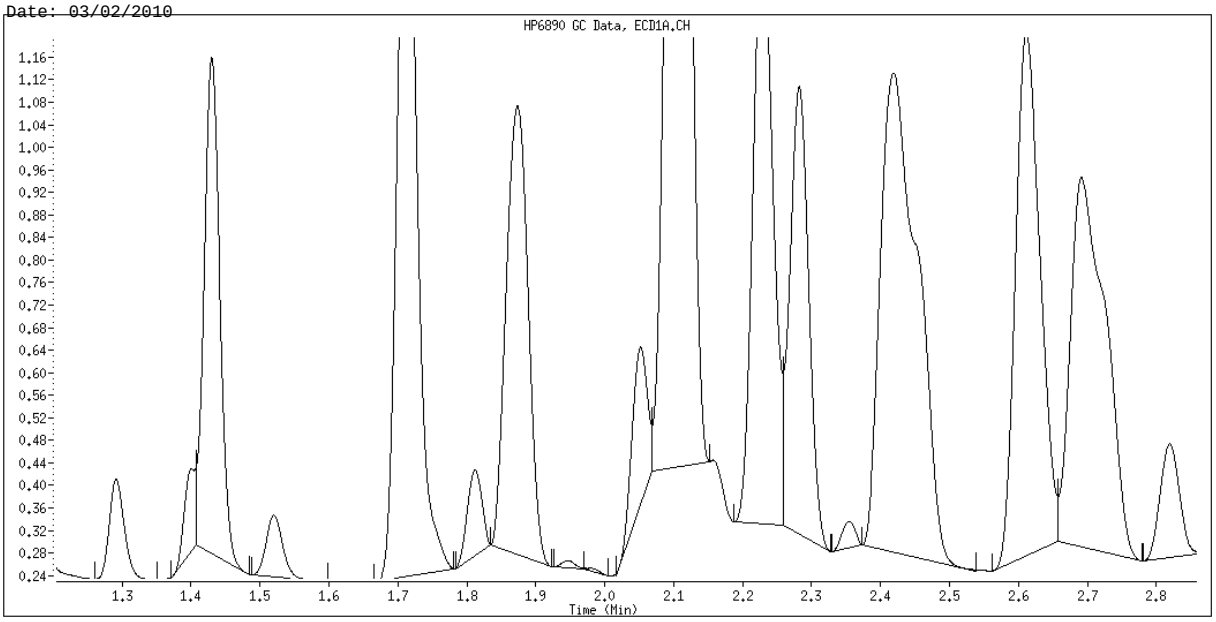
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.159	1.159	0.000	3112037	0.02500	0.02505		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.429	1.429	0.000	1637531	0.50000	0.4604	80.00- 120.00	100.00(M)
1.712	1.712	0.000	2878501	0.50000	0.4677	131.84- 219.73	175.78
2.106	2.106	0.000	6240908	0.50000	0.4808	285.84- 476.40	381.12
2.228	2.228	0.000	2542838	0.50000	0.4774	116.46- 194.11	155.28
2.610	2.610	0.000	2499245	0.50000	0.4712	114.47- 190.78	152.62
		Average of Peak Amounts =			0.47150		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.814	3.814	0.000	1390409	0.50000	0.4606	80.00- 120.00	100.00
4.103	4.103	0.000	1941293	0.50000	0.4593	104.72- 174.53	139.62
4.381	4.381	0.000	1784348	0.50000	0.4634	96.25- 160.42	128.33
5.081	5.081	0.000	2755810	0.50000	0.4787	148.65- 247.75	198.20
5.363	5.363	0.000	1438260	0.50000	0.4690	77.58- 129.30	103.44
		Average of Peak Amounts =			0.46620		
$ 9 DCB					CAS #: 2051-24-3		
6.511	6.511	0.000	1399656	0.02500	0.02523		

QC Flag Legend

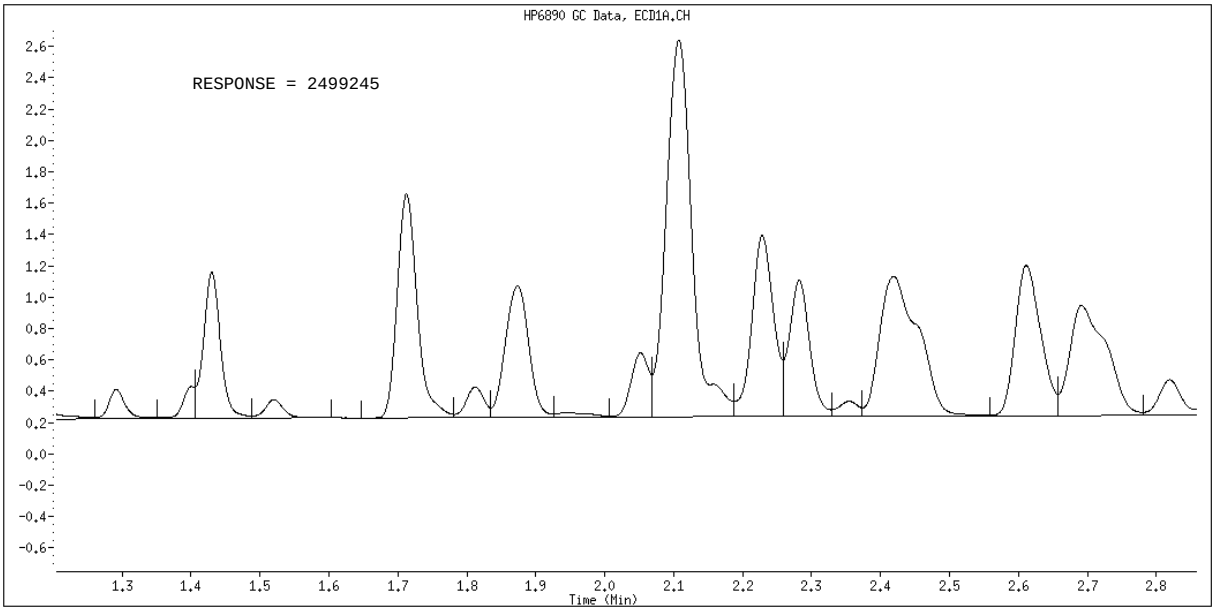
M - Compound response manually integrated.


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\002F0201.D
Date : 01-MAR-2010 08:38
Client ID:
Sample Info: 1660,,2 E009
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
Min
TCMX
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1260
-AROCLOR-1260
-AROCLOR-1260
AROCLOR-1260
-AROCLOR-1260
-DCB
\\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\002F0201.D

Data File Name: 002F0201.D
Inj. Date and Time: 01-MAR-2010 08:38
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/02/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\003F0301.D
Report Date: 02-Mar-2010 08:19

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa02149
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MRL
Level: LOW Operator:
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: 6-AR1660.sub
Method File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
3 AROCLOR-1016	0.05000	0.05308	106.16	70-130
8 AROCLOR-1260	0.05000	0.05137	102.74	70-130

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\003F0301.D
Report Date: 02-Mar-2010 08:19

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\003F0301.D
Lab Smp Id: MRL
Inj Date : 01-MAR-2010 08:53
Operator : Inst ID: a2hp13.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 02-Mar-2010 07:21 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 3 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

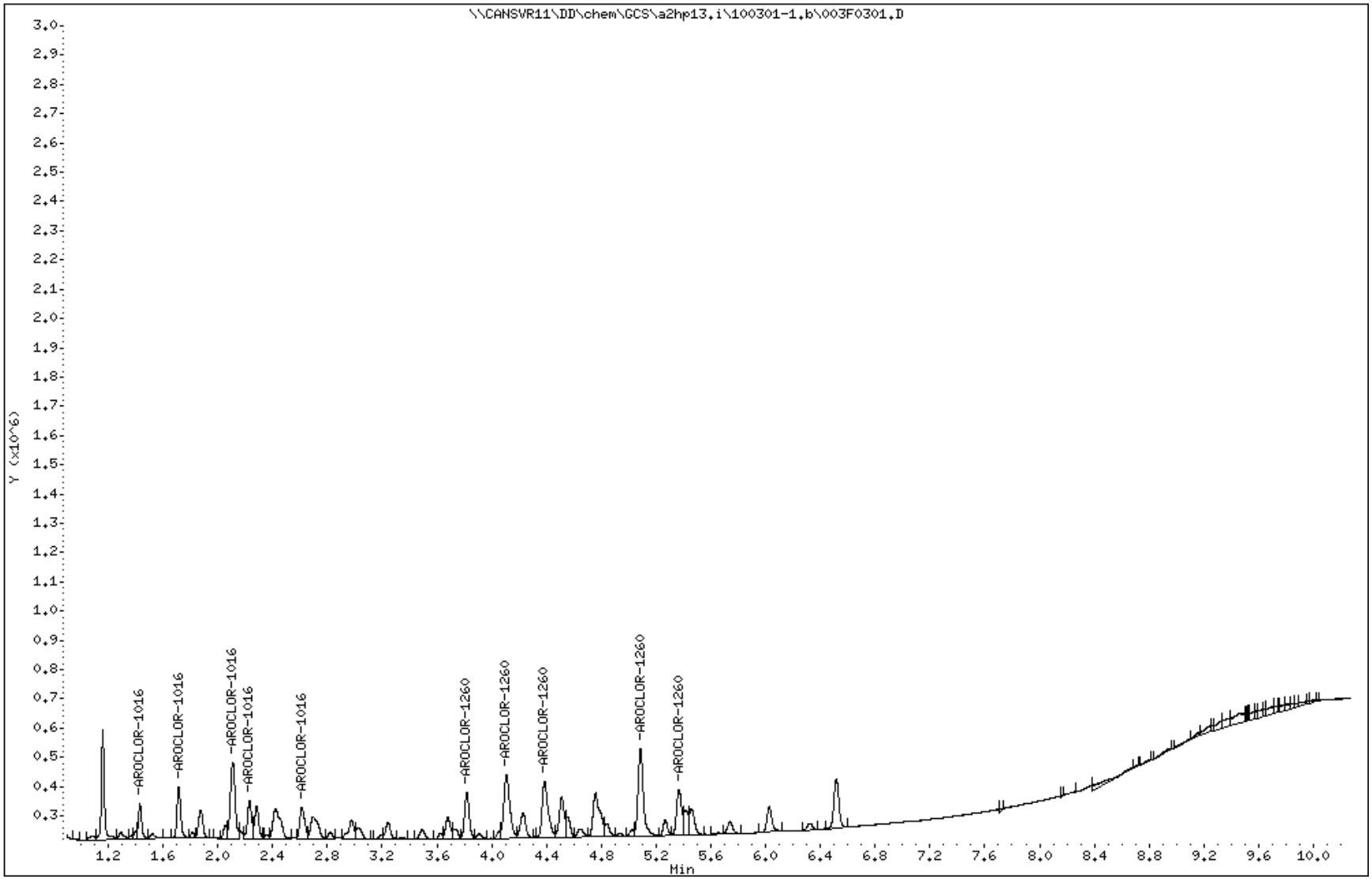
Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	final volume
Vo	1000.000	intitial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
3 AROCLOR-1016					CAS #: 12674-11-2		
1.431	1.433	-0.002	201166	0.05656	0.05656	80.00- 120.00	100.00(M)
1.714	1.718	-0.004	337245	0.05480	0.05480	133.77- 222.95	167.65
2.109	2.113	-0.004	639313	0.04926	0.04926	296.13- 493.54	317.80
2.231	2.234	-0.003	279888	0.05255	0.05255	119.35- 198.92	139.13
2.612	2.617	-0.005	277016	0.05223	0.05223	118.19- 196.98	137.71
Average of Peak Concentrations =				0.05308			
8 AROCLOR-1260					CAS #: 11096-82-5		
3.818	3.821	-0.003	157834	0.05229	0.05229	80.00- 120.00	100.00
4.107	4.109	-0.002	219213	0.05187	0.05187	104.94- 174.91	138.89
4.386	4.388	-0.002	193301	0.05020	0.05020	96.91- 161.52	122.47
5.086	5.088	-0.002	297097	0.05160	0.05160	151.14- 251.90	188.23
5.367	5.370	-0.003	156076	0.05090	0.05090	79.65- 132.75	98.89
Average of Peak Concentrations =				0.05137			

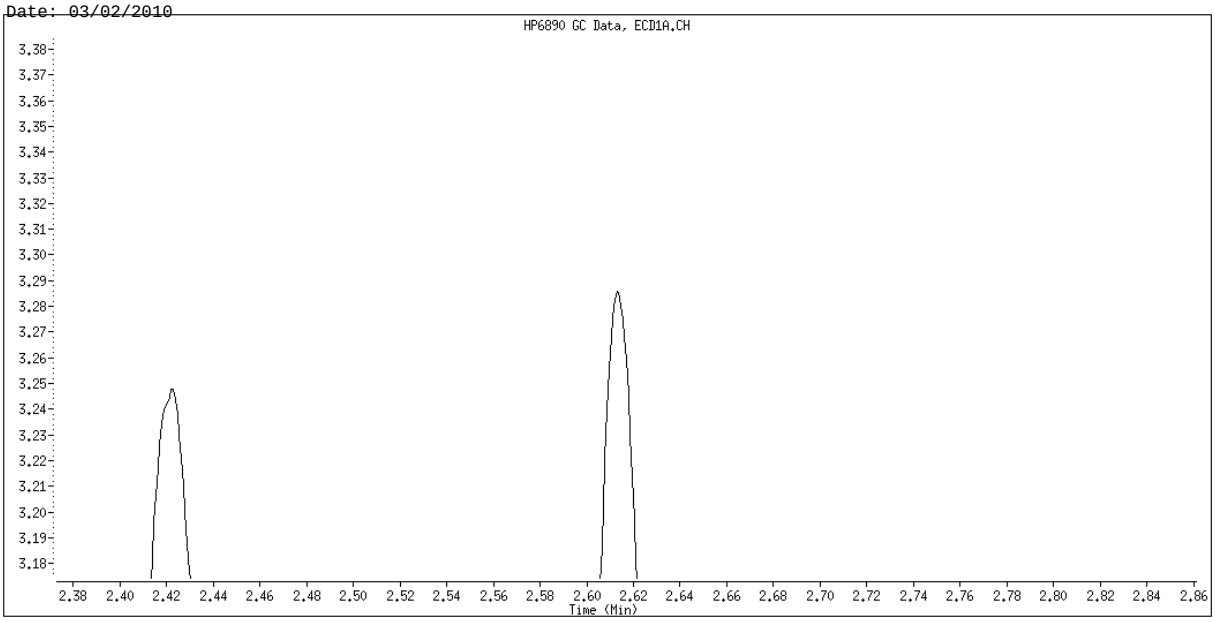
QC Flag Legend

M - Compound response manually integrated.

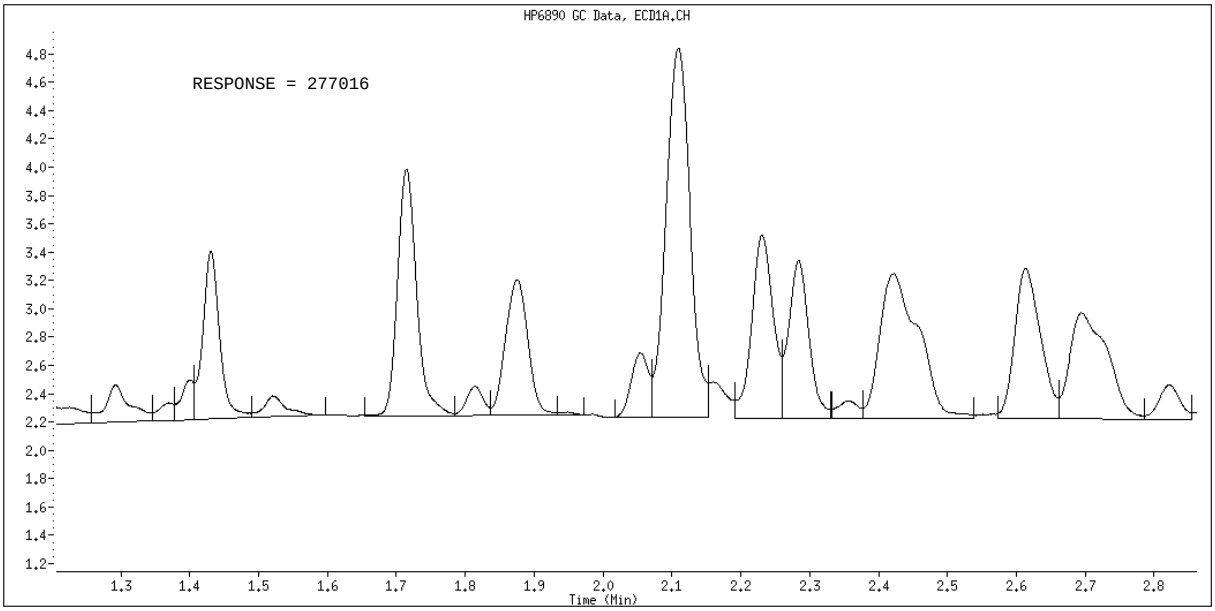
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\003F0301.D
Date : 01-MAR-2010 08:53
Client ID:
Instrument: a2hp13.i
Sample Info: MRL
Purge Volume: 1000.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 003F0301.D
Inj. Date and Time: 01-MAR-2010 08:53
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/02/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Baseline Event

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\013F1301.D
Report Date: 02-Mar-2010 09:42

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 01-MAR-2010 11:21
Lab File ID: 013F1301.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: SOIL Init. Cal. Times: 16:06 02:22
Lab Sample ID: E009 Quant Type: ESTD
Method: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 TCMX	124233510	125556000	0.010	-1.06452	15.00000	Averaged
3 AROCLOR-1016(1)	3556491	3274338	0.010	7.93345	15.00000	Averaged
(2)	6154428	5703700	0.010	7.32364	15.00000	Averaged
(3)	12978864	12206320	0.010	5.95232	15.00000	Averaged
(4)	5325964	4951676	0.010	7.02761	15.00000	Averaged
(5)	5303493	4896194	0.010	7.67982	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2739938	0.010	9.22346	15.00000	Averaged
(2)	4226485	3843166	0.010	9.06946	15.00000	Averaged
(3)	3850847	3528456	0.010	8.37195	15.00000	Averaged
(4)	5757318	5594520	0.010	2.82766	15.00000	Averaged
(5)	3066451	2937426	0.010	4.20762	15.00000	Averaged
$ 9 DCB	55471757	57206560	0.010	-3.12736	15.00000	Averaged

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\013F1301.D
Report Date: 02-Mar-2010 09:42

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\013F1301.D
Lab Smp Id: E009
Inj Date : 01-MAR-2010 11:21
Operator : Inst ID: a2hp13.i
Smp Info : E009,,2
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 02-Mar-2010 09:42 a2hp13.i Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660td.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPACCT26

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.161	1.161	0.000	3138900	0.02500	0.02527		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.432	1.432	0.000	1637169	0.50000	0.4603	80.00- 120.00	100.00(M)
1.716	1.716	0.000	2851850	0.50000	0.4634	130.65- 217.74	174.19
2.111	2.111	0.000	6103160	0.50000	0.4702	279.59- 465.98	372.79
2.232	2.232	0.000	2475838	0.50000	0.4649	113.42- 189.03	151.23
2.615	2.615	0.000	2448097	0.50000	0.4616	112.15- 186.92	149.53
Average of Peak Amounts =					0.46408		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.820	3.820	0.000	1369969	0.50000	0.4539	80.00- 120.00	100.00
4.109	4.109	0.000	1921583	0.50000	0.4546	105.20- 175.33	140.26
4.387	4.387	0.000	1764228	0.50000	0.4581	96.58- 160.97	128.78
5.087	5.087	0.000	2797260	0.50000	0.4859	153.14- 255.23	204.18
5.367	5.367	0.000	1468713	0.50000	0.4790	80.41- 134.01	107.21
Average of Peak Amounts =					0.46630		

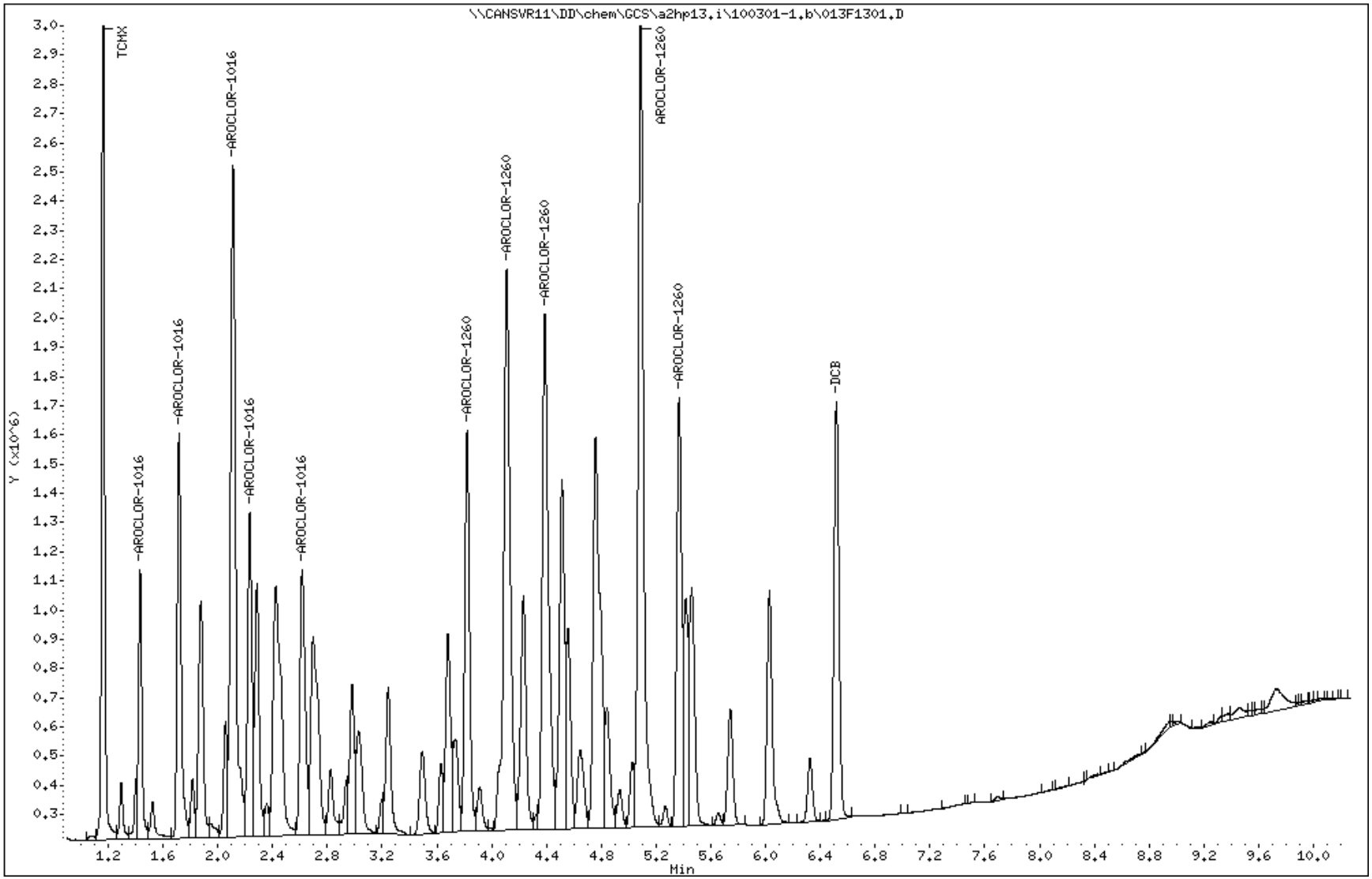
```
--------------------------------------------------------------------------------
$   9 DCB                                        CAS #: 2051-24-3
6.517    6.517    0.000         1430164 0.02500  0.02578
--------------------------------------------------------------------------------
```

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\013F1301.D
Report Date: 02-Mar-2010 09:42

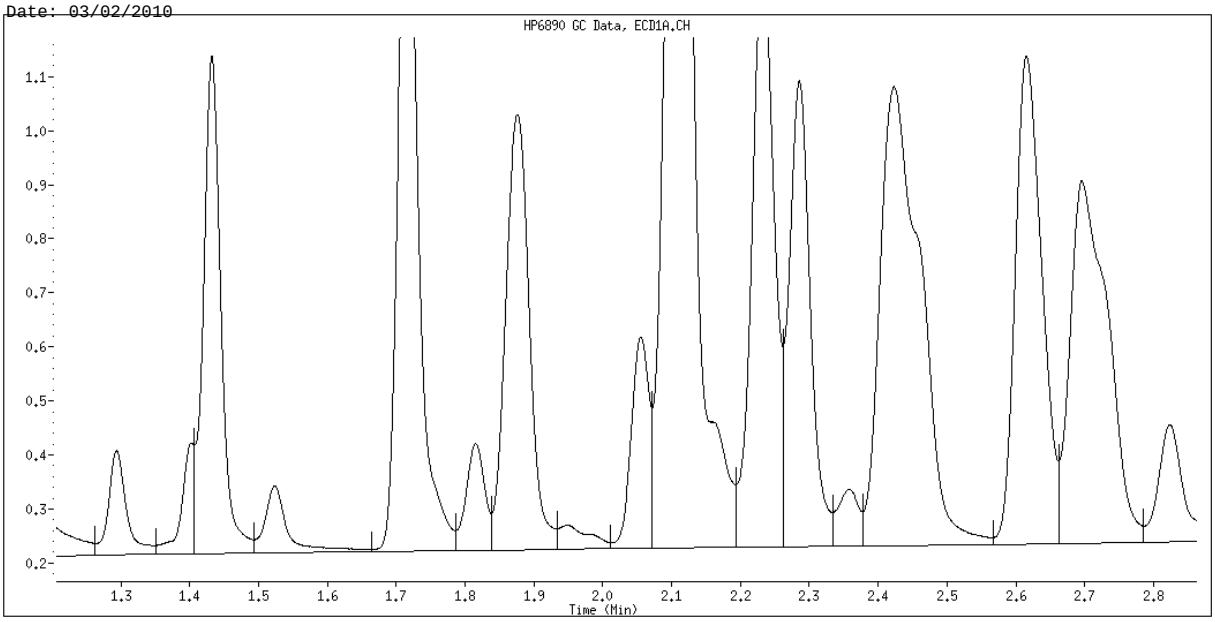
QC Flag Legend

M - Compound response manually integrated.

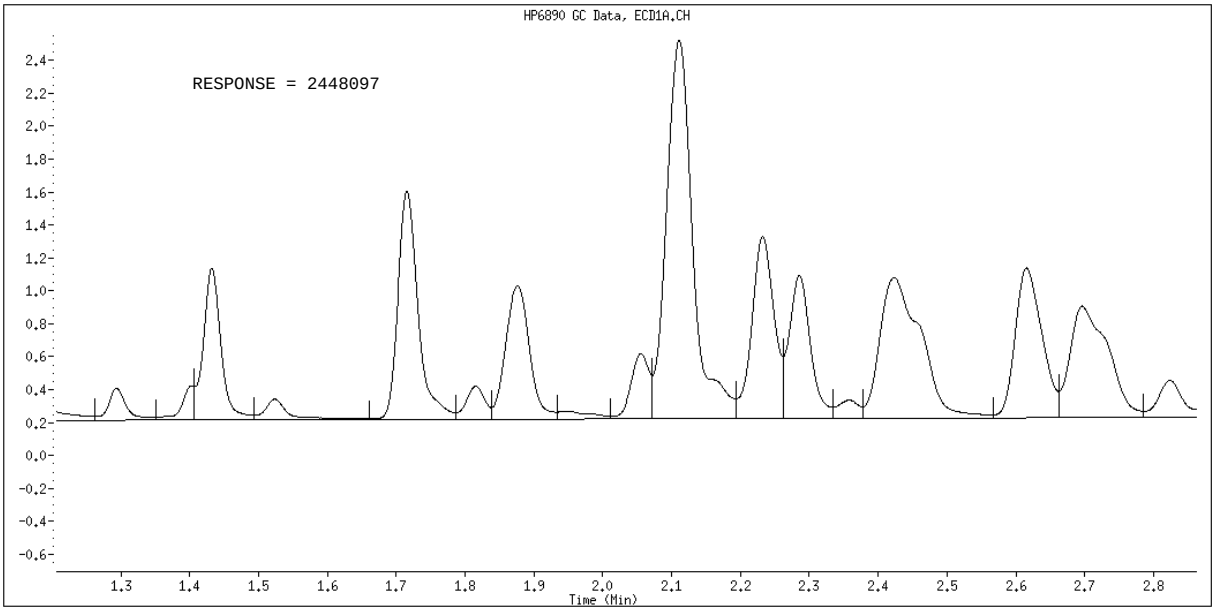
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\013F1301.D
Date : 01-MAR-2010 11:21
Client ID:
Instrument: a2hp13.i
Sample Info: E009,,2
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 013F1301.D
Inj. Date and Time: 01-MAR-2010 11:21
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/02/2010



Original Integration



Manual Integration

Manually Integrated By: gurneyk
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\023F2301.D
Report Date: 01-Mar-2010 13:57

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 01-MAR-2010 13:49
Lab File ID: 023F2301.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: E009 Quant Type: ESTD
Method: \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 TCMX	124233510	143647160	0.010	-15.62674	15.00000	Averaged	<-
3 AROCLOR-1016(1)	3556491	3518962	0.010	1.05521	15.00000	Averaged	
(2)	6154428	6258952	0.010	-1.69835	15.00000	Averaged	
(3)	12978864	13631174	0.010	-5.02594	15.00000	Averaged	
(4)	5325964	5568528	0.010	-4.55437	15.00000	Averaged	
(5)	5303493	5460922	0.010	-2.96841	15.00000	Averaged	
8 AROCLOR-1260(1)	3018333	3014732	0.010	0.11929	15.00000	Averaged	
(2)	4226485	4261266	0.010	-0.82292	15.00000	Averaged	
(3)	3850847	3927102	0.010	-1.98022	15.00000	Averaged	
(4)	5757318	6159270	0.010	-6.98159	15.00000	Averaged	
(5)	3066451	3256248	0.010	-6.18949	15.00000	Averaged	
$ 9 DCB	55471757	62765920	0.010	-13.14933	15.00000	Averaged	

TestAmerica North Canton

PCB 8082/608

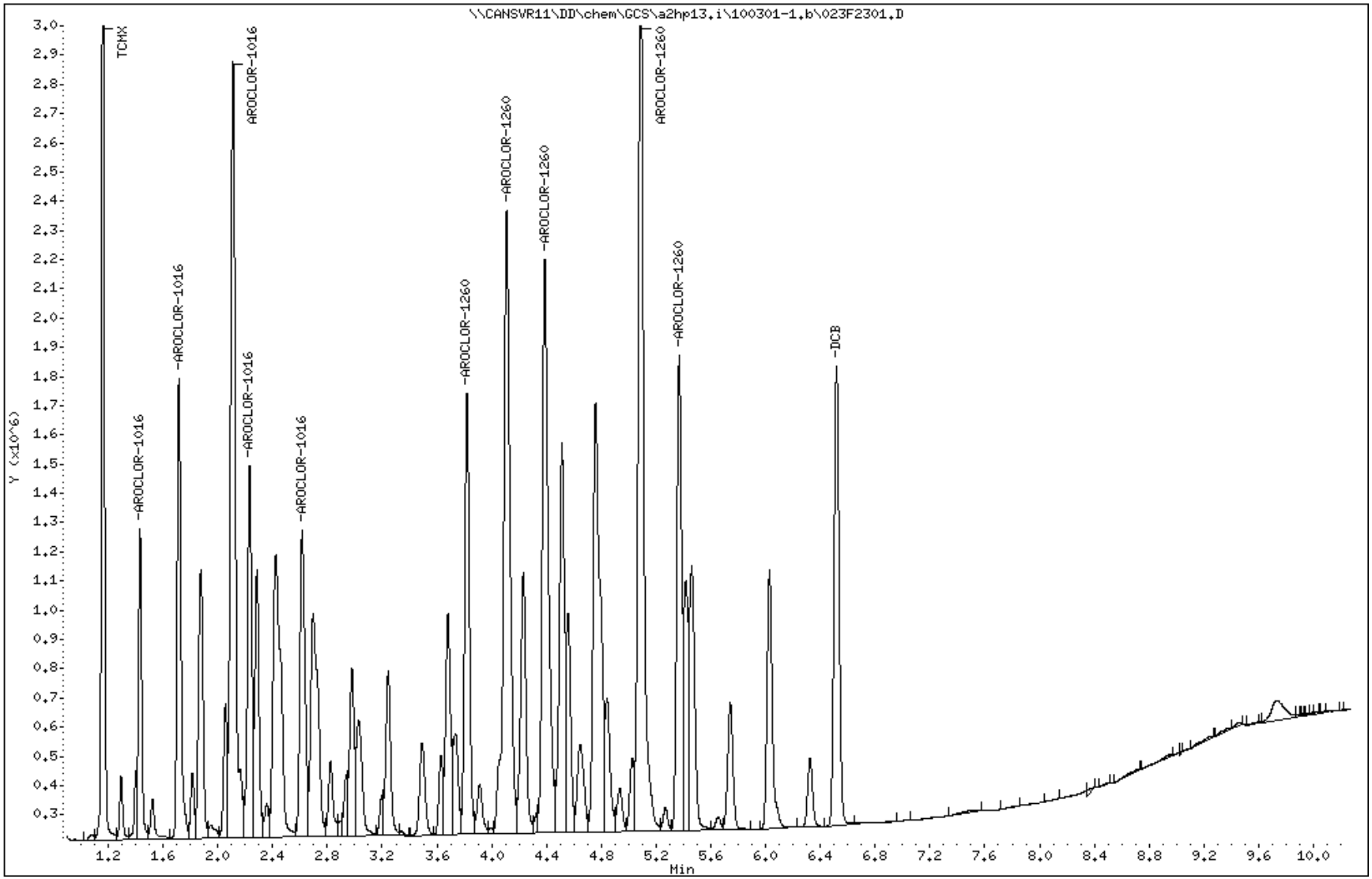
Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\023F2301.D
Lab Smp Id: E009
Inj Date : 01-MAR-2010 13:49
Operator : Inst ID: a2hp13.i
Smp Info : E009,,2
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 01-Mar-2010 13:57 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.161	1.161	0.000	3591179	0.02500	0.02891		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.432	1.432	0.000	1759481	0.50000	0.4947	80.00- 120.00	100.00
1.715	1.715	0.000	3129476	0.50000	0.5085	133.40- 222.33	177.86
2.110	2.110	0.000	6815587	0.50000	0.5251	290.52- 484.20	387.36
2.232	2.232	0.000	2784264	0.50000	0.5228	118.68- 197.80	158.24
2.614	2.614	0.000	2730461	0.50000	0.5148	116.39- 193.98	155.19
	Average of Peak Amounts =				0.51318		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.818	3.818	0.000	1507366	0.50000	0.4994	80.00- 120.00	100.00
4.109	4.109	0.000	2130633	0.50000	0.5041	106.01- 176.69	141.35
4.387	4.387	0.000	1963551	0.50000	0.5099	97.70- 162.83	130.26
5.087	5.087	0.000	3079635	0.50000	0.5349	153.23- 255.38	204.31
5.368	5.368	0.000	1628124	0.50000	0.5309	81.01- 135.01	108.01
	Average of Peak Amounts =				0.51584		
$ 9 DCB					CAS #: 2051-24-3		
6.517	6.517	0.000	1569148	0.02500	0.02829		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\023F2301.D
Date : 01-MAR-2010 13:49
Client ID:
Sample Info: E009,,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\068F6801.D
Report Date: 02-Mar-2010 08:17

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa02149
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MRL
Level: LOW Operator:
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: 6-AR1660.sub
Method File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
3 AROCLOR-1016	0.05000	0.05345	106.90	70-130
8 AROCLOR-1260	0.05000	0.05129	102.58	70-130

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\068F6801.D
Report Date: 02-Mar-2010 08:17

TestAmerica North Canton

PCB 8082/608

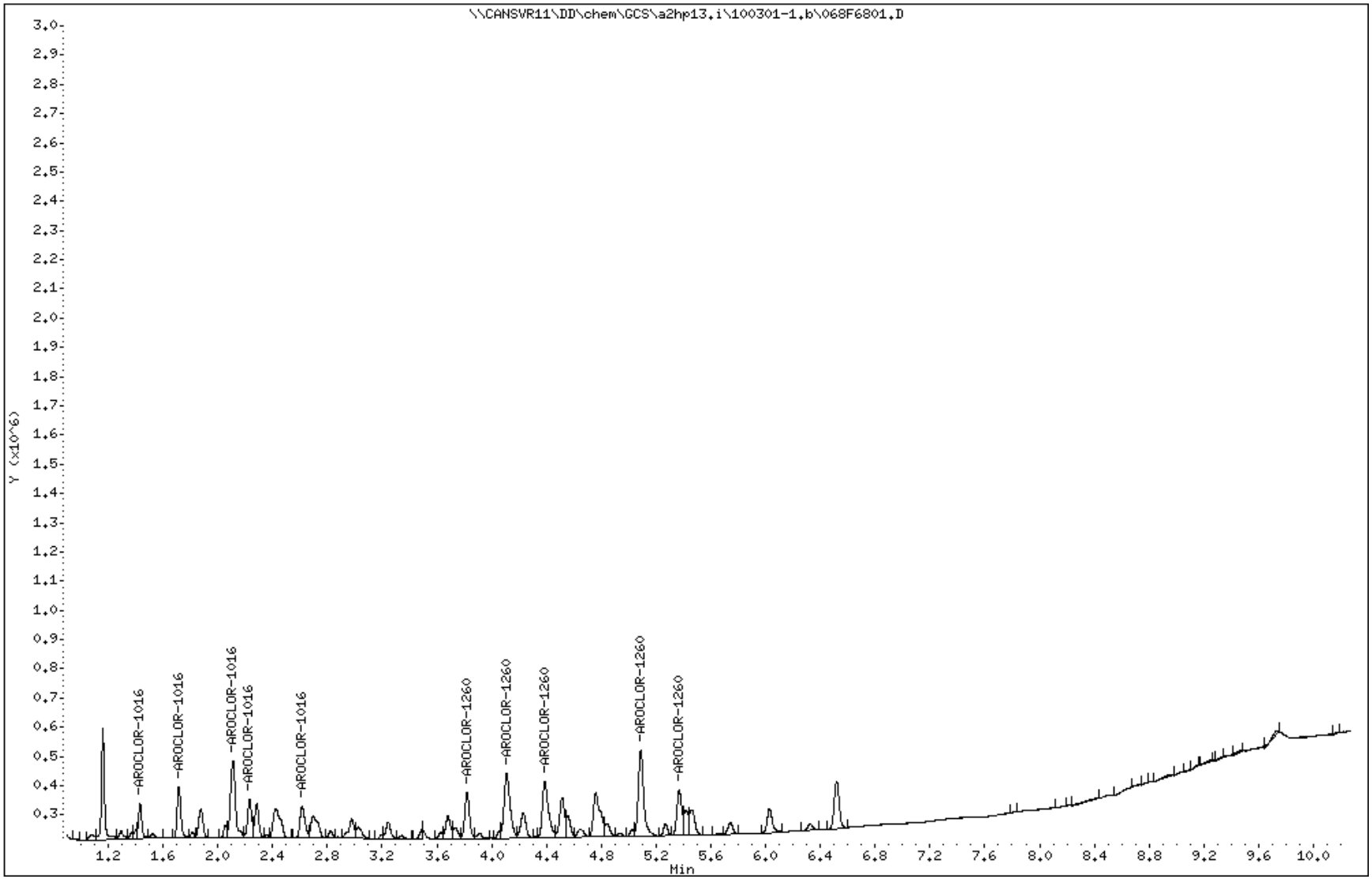
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\068F6801.D
Lab Smp Id: MRL
Inj Date : 02-MAR-2010 01:16
Operator : Inst ID: a2hp13.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 02-Mar-2010 07:21 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 68 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	final volume
Vo	1000.000	intitial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
3 AROCLOR-1016					CAS #: 12674-11-2		
1.432	1.433	-0.001	201540	0.05667	0.05667	80.00- 120.00	100.00
1.715	1.718	-0.003	335998	0.05459	0.05459	133.77- 222.95	166.72
2.110	2.113	-0.003	687957	0.05301	0.05300	296.13- 493.54	341.35
2.231	2.234	-0.003	278074	0.05221	0.05221	119.35- 198.92	137.97
2.615	2.617	-0.002	269203	0.05076	0.05076	118.19- 196.98	133.57
Average of Peak Concentrations =				0.05345			
8 AROCLOR-1260					CAS #: 11096-82-5		
3.819	3.821	-0.002	158513	0.05252	0.05252	80.00- 120.00	100.00
4.108	4.109	-0.001	220412	0.05215	0.05215	104.94- 174.91	139.05
4.387	4.388	-0.001	193531	0.05026	0.05026	96.91- 161.52	122.09
5.087	5.088	-0.001	293861	0.05104	0.05104	151.14- 251.90	185.39
5.369	5.370	-0.001	154810	0.05049	0.05048	79.65- 132.75	97.66
Average of Peak Concentrations =				0.05129			

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\068F6801.D
Date : 02-MAR-2010 01:16
Client ID:
Instrument: a2hp13.i
Sample Info: MRL
Purge Volume: 1000.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B230000-023
Prep Date.....: 02/23/10 **Analysis Date..:** 03/01/10
Prep Batch #...: 0054023
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**76**	**(40 - 140)**	**SW846 8082**
Aroclor 1260	**87**	**(60 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(40 - 140)
Decachlorobiphenyl	99	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0B230000-023
Prep Date.....: 02/23/10 **Analysis Date..:** 03/01/10
Prep Batch #...: 0054023
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**330**	**250**	**ug/kg**	**76**	**SW846 8082**
Aroclor 1260	**330**	**290**	**ug/kg**	**87**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(40 - 140)
Decachlorobiphenyl	99	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\022F2201.D
Report Date: 02-Mar-2010 07:58

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\022F2201.D
Lab Smp Id: LV0FJ1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 01-MAR-2010 13:35
Operator : Inst ID: a2hp13.i
Smp Info : LV0FJ1AC
Misc Info : 12-AR1660TD.SUB,SLCS.SPK
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 02-Mar-2010 07:21 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 22 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

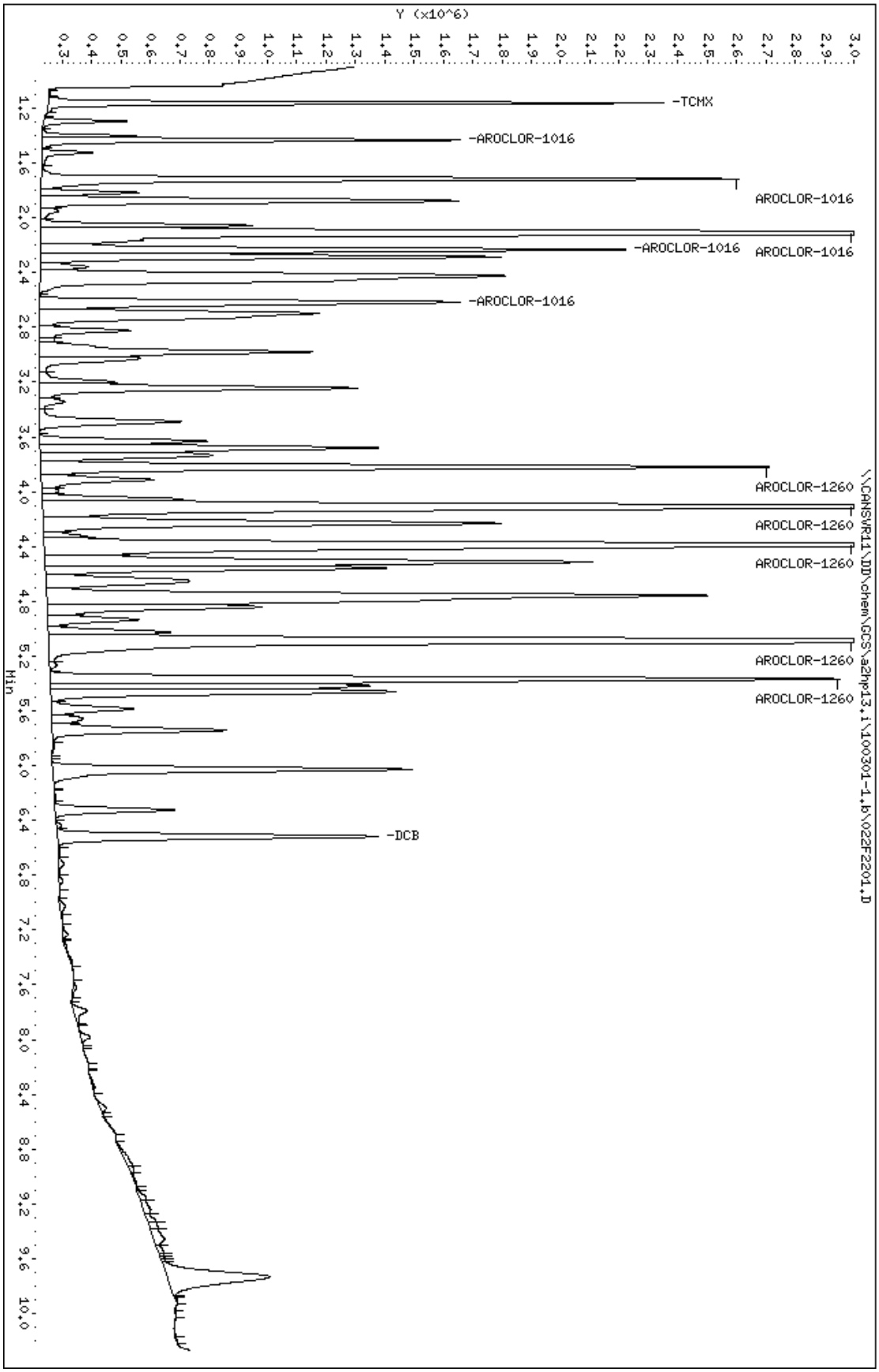
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.161	1.163	-0.002	2100460	0.01691	5.636		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.432	1.433	-0.001	2410622	0.67781	225.9	80.00- 120.00	100.00(M)
1.716	1.718	-0.002	4873554	0.79188	264.0	133.77- 222.95	202.17
2.111	2.113	-0.002	10798661	0.83202	277.3	296.13- 493.54	447.96
2.232	2.234	-0.002	4424919	0.83082	276.9	119.35- 198.92	183.56
2.616	2.617	-0.001	3636859	0.68575	228.6	118.19- 196.98	150.87
Average of Peak Concentrations =					254.6		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.819	3.821	-0.002	2483562	0.82283	274.3	80.00- 120.00	100.00
4.108	4.109	-0.001	3671149	0.86861	289.5	104.94- 174.91	147.82
4.387	4.388	-0.001	3692929	0.95899	319.7	96.91- 161.52	148.69
5.087	5.088	-0.001	4636117	0.80526	268.4	151.14- 251.90	186.67
5.368	5.370	-0.002	2693504	0.87838	292.8	79.65- 132.75	108.45
Average of Peak Concentrations =					288.9		

```
$   9 DCB                                       CAS #: 2051-24-3
6.517    6.519   -0.002         1096262 0.01976    6.588
--------------------------------------------------------------------------------
```

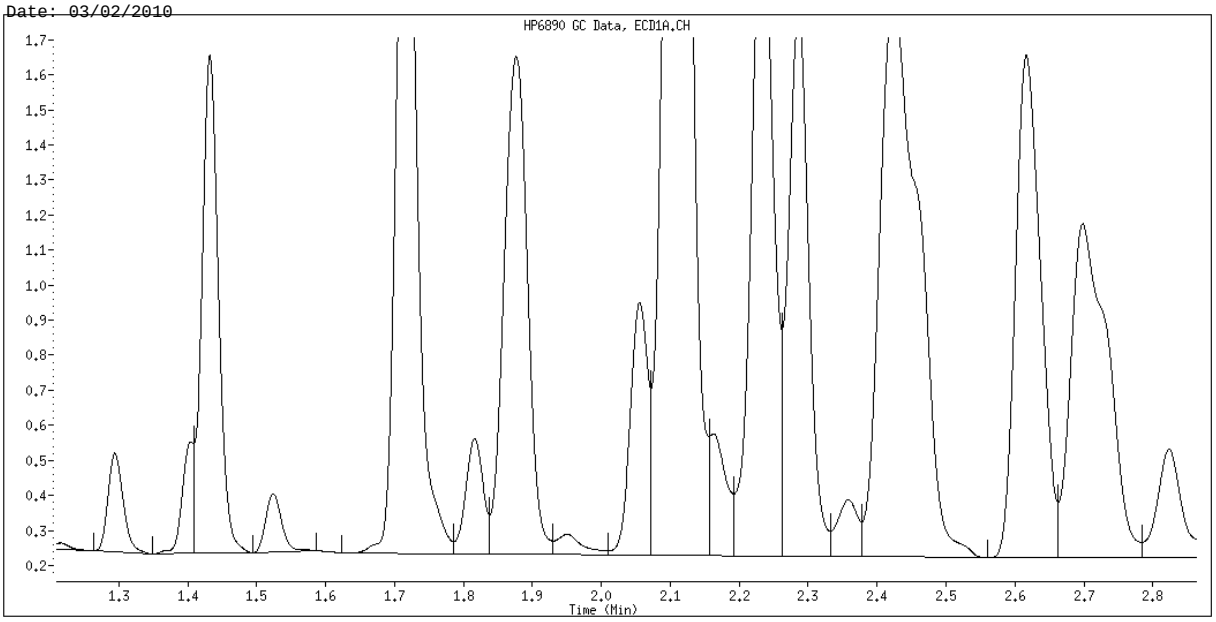
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\022F2201.D
Report Date: 02-Mar-2010 07:58

QC Flag Legend

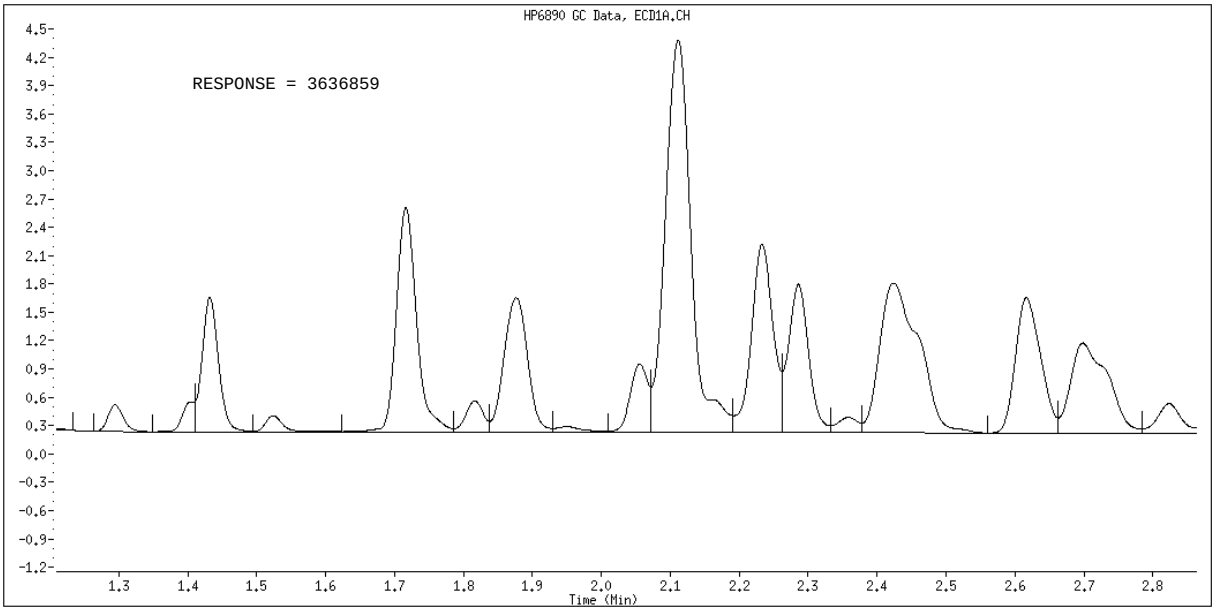
M - Compound response manually integrated.


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\022F2201.D
Date : 01-MAR-2010 13:35
Client ID: INTRA-LAB CHECK
Sample Info: LVOFJ1AC
Volume Injected (uL): 1.0
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
-TCMX
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
-DCB
\\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\022F2201.D
Min

Data File Name: 022F2201.D
Inj. Date and Time: 01-MAR-2010 13:35
Instrument ID: a2hp13.i
Client ID: INTRA-LAB CHECK
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/02/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LV0FJ1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0B230000-023

Prep Date.....: 02/23/10 **Final Wgt/Vol..:** 10 mL
Analysis Date..: 03/01/10 **Prep Batch #...:** 0054023
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	90	(40 - 140)
Decachlorobiphenyl	97	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\021F2101.D
Report Date: 02-Mar-2010 08:13

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\021F2101.D
Lab Smp Id: LV0FJ1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 01-MAR-2010 13:20
Operator : Inst ID: a2hp13.i
Smp Info : LV0FJ1AA
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 02-Mar-2010 07:21 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 21 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.161	1.163	-0.002	2236479	0.01800	6.001		
2 AROCLOR-1221					CAS #: 11104-28-2		
Compound Not Detected							
3 AROCLOR-1016					CAS #: 12674-11-2		
Compound Not Detected							
4 AROCLOR-1232					CAS #: 11141-16-5		
Compound Not Detected							

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\021F2101.D
Report Date: 02-Mar-2010 08:13

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

---

6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Compound Not Detected

---

8 AROCLOR-1260 CAS #: 11096-82-5

Compound Not Detected

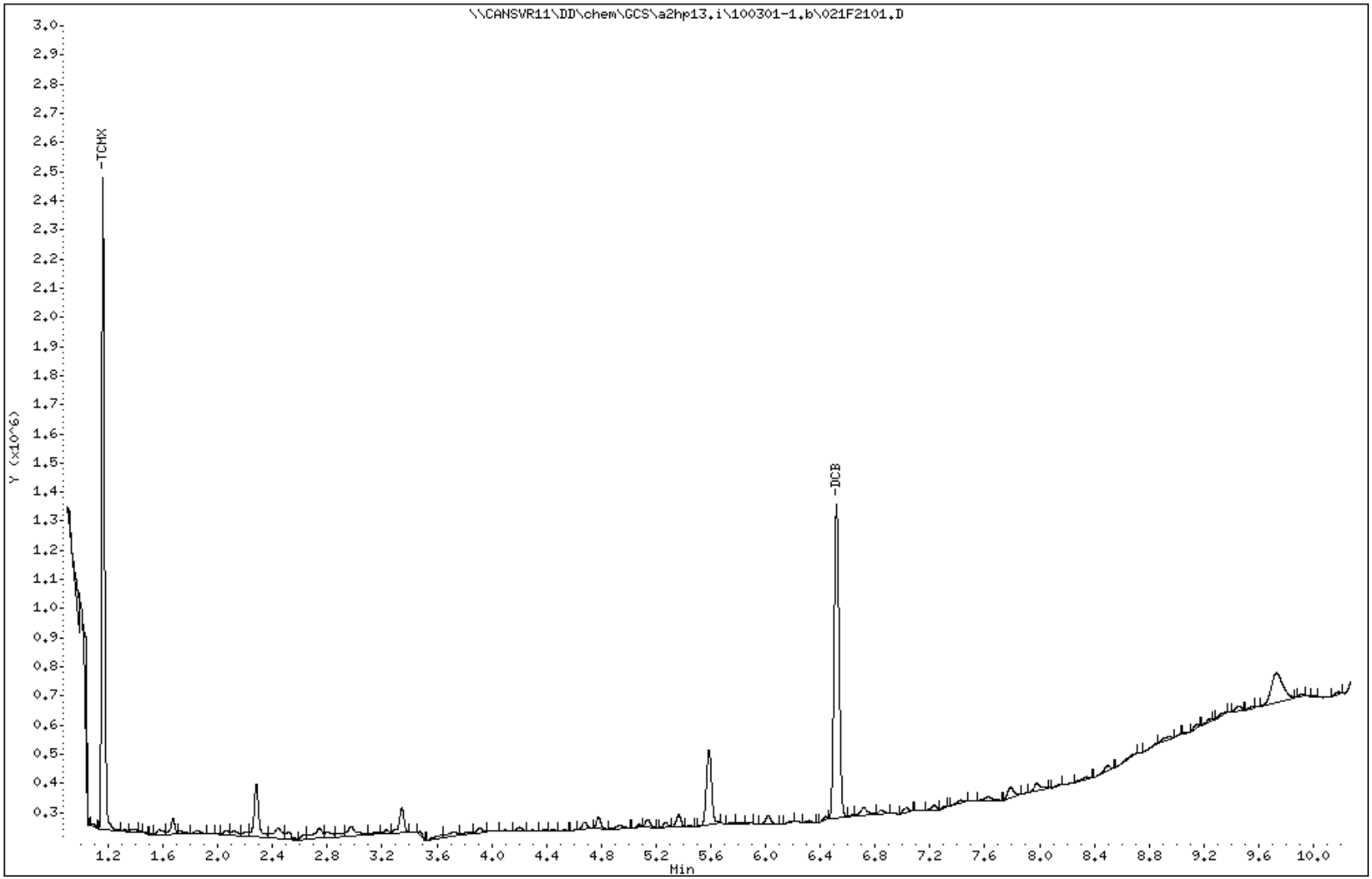
M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

$ 9 DCB CAS #: 2051-24-3

6.517	6.519	-0.002	1073369	0.01935	6.450		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\021F2101.D
Date : 01-MAR-2010 13:20
Client ID: INTRA-LAB BLANK
Instrument: a2hp13.i
Sample Info: LV0FJ1AA
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LVTT01CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0B180429-012 LVTT01CD-MSD
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/01/10
Prep Batch #...: 0054023
Dilution Factor: 1 **Initial Wgt/Vol:** 30.01 g **Final Wgt/Vol..:** 10 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**70**	**(40 - 140)**			**SW846 8082**
	78	**(40 - 140)**	**11**	**(0-39)**	**SW846 8082**
Aroclor 1260	**76**	**(60 - 130)**			**SW846 8082**
	81	**(60 - 130)**	**6.4**	**(0-33)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(40 - 140)
	87	(40 - 140)
Decachlorobiphenyl	90	(60 - 125)
	94	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B180429 **Work Order #...:** LVTT01CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0B180429-012 LVTT01CD-MSD
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
Prep Date.....: 02/23/10 **Analysis Date..:** 03/01/10
Prep Batch #...: 0054023
Dilution Factor: 1 **Initial Wgt/Vol:** 30.01 g **Final Wgt/Vol..:** 10 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**340**	**240**	**ug/kg**	**70**		**SW846 8082**
	ND	**340**	**260**	**ug/kg**	**78**	**11**	**SW846 8082**
Aroclor 1260	**ND**	**340**	**260**	**ug/kg**	**76**		**SW846 8082**
	ND	**340**	**270**	**ug/kg**	**81**	**6.4**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(40 - 140)
	87	(40 - 140)
Decachlorobiphenyl	90	(60 - 125)
	94	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\011F1101.D
Report Date: 02-Mar-2010 07:55

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\011F1101.D
Lab Smp Id: LVTT01CC Client Smp ID: ATASS-015M-5036-SO
Inj Date : 01-MAR-2010 10:52
Operator : Inst ID: a2hp13.i
Smp Info : LVTT01CC
Misc Info : 12-AR1660TD.SUB,SMS.SPK
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 02-Mar-2010 07:21 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.010	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.163	-0.001	1817524	0.01463	4.875		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.433	1.433	0.000	2228731	0.62667	208.8	80.00- 120.00	100.00(M)
1.717	1.718	-0.001	4405195	0.71578	238.5	133.77- 222.95	197.65
2.112	2.113	-0.001	10195358	0.78554	261.8	296.13- 493.54	457.45
2.233	2.234	-0.001	3935537	0.73893	246.2	119.35- 198.92	176.58
2.616	2.617	-0.001	3349463	0.63156	210.4	118.19- 196.98	150.29
Average of Peak Concentrations =					233.2		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.821	3.821	0.000	2156681	0.71453	238.1	80.00- 120.00	100.00(M)
4.110	4.109	0.001	3217571	0.76129	253.7	104.94- 174.91	149.19
4.388	4.388	0.000	3201312	0.83133	277.0	96.91- 161.52	148.44
5.089	5.088	0.001	4071898	0.70726	235.7	151.14- 251.90	188.80
5.370	5.370	0.000	2372594	0.77373	257.8	79.65- 132.75	110.01
Average of Peak Concentrations =					252.4		

```
$   9 DCB                                       CAS #: 2051-24-3
6.519    6.519    0.000         1002655 0.01808    6.023
--------------------------------------------------------------------------------
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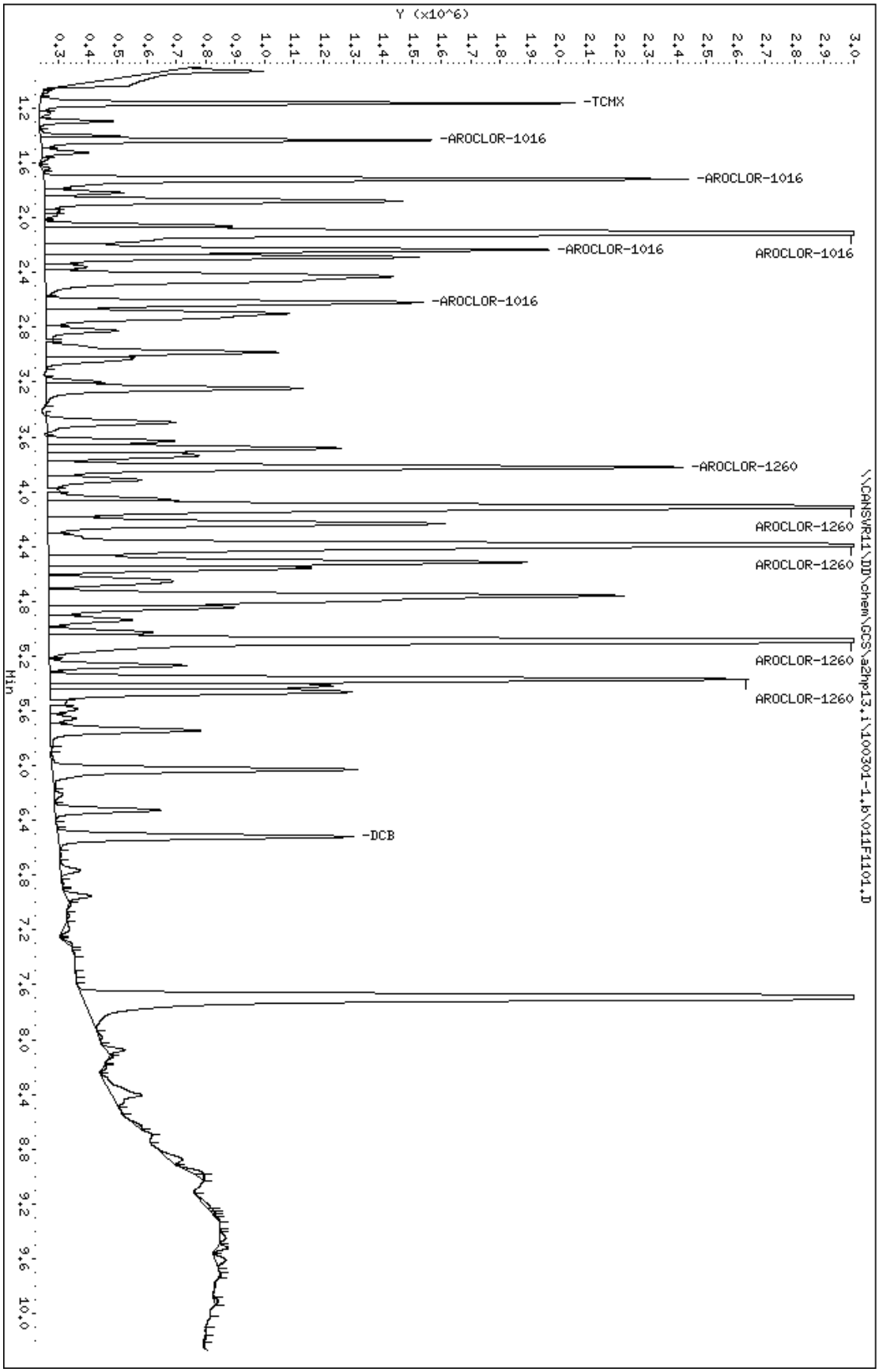
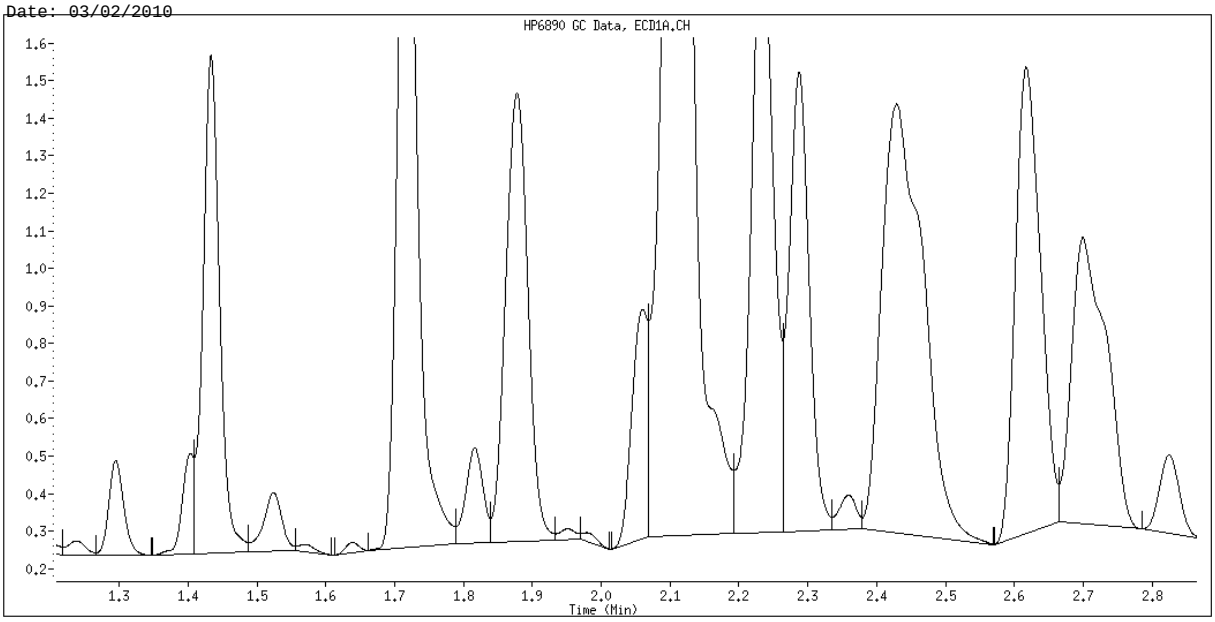
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\011F1101.D
Report Date: 02-Mar-2010 07:55

QC Flag Legend

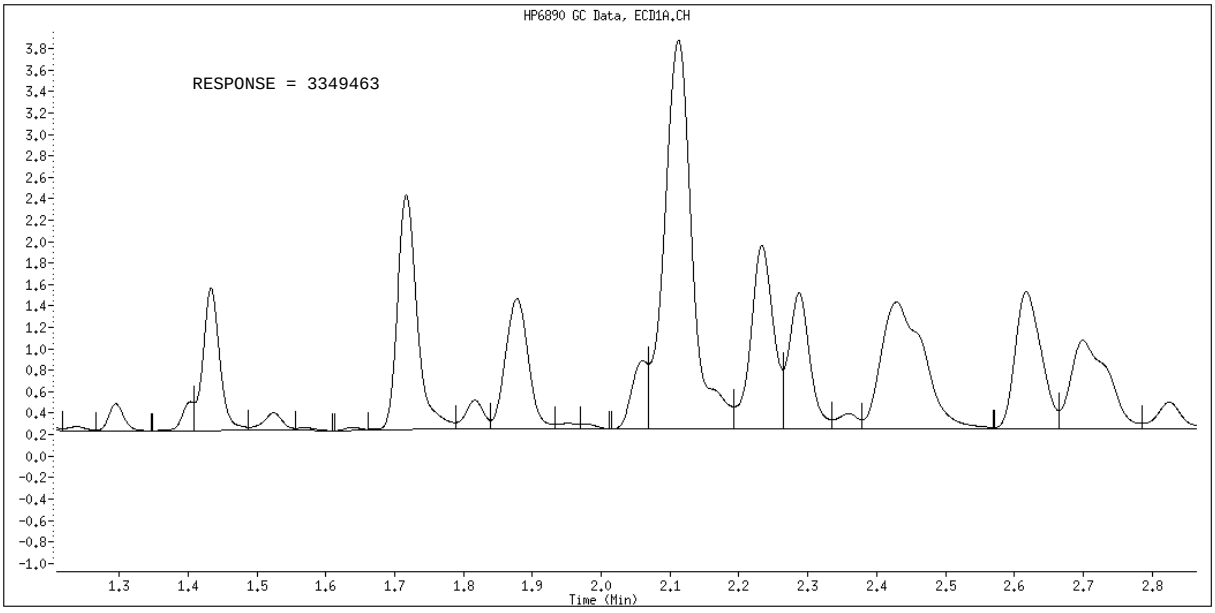
M - Compound response manually integrated.


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\011F1101.D
Date : 01-MAR-2010 10:52
Client ID: ATASS-015W-5036-SO
Sample Info: LVTT01CC
Volume Injected (uL): 1.0
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
-TCMX
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
-DCB
\\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\011F1101.D
Min

Data File Name: 011F1101.D
Inj. Date and Time: 01-MAR-2010 10:52
Instrument ID: a2hp13.i
Client ID: ATASS-015M-5036-SO
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/02/2010



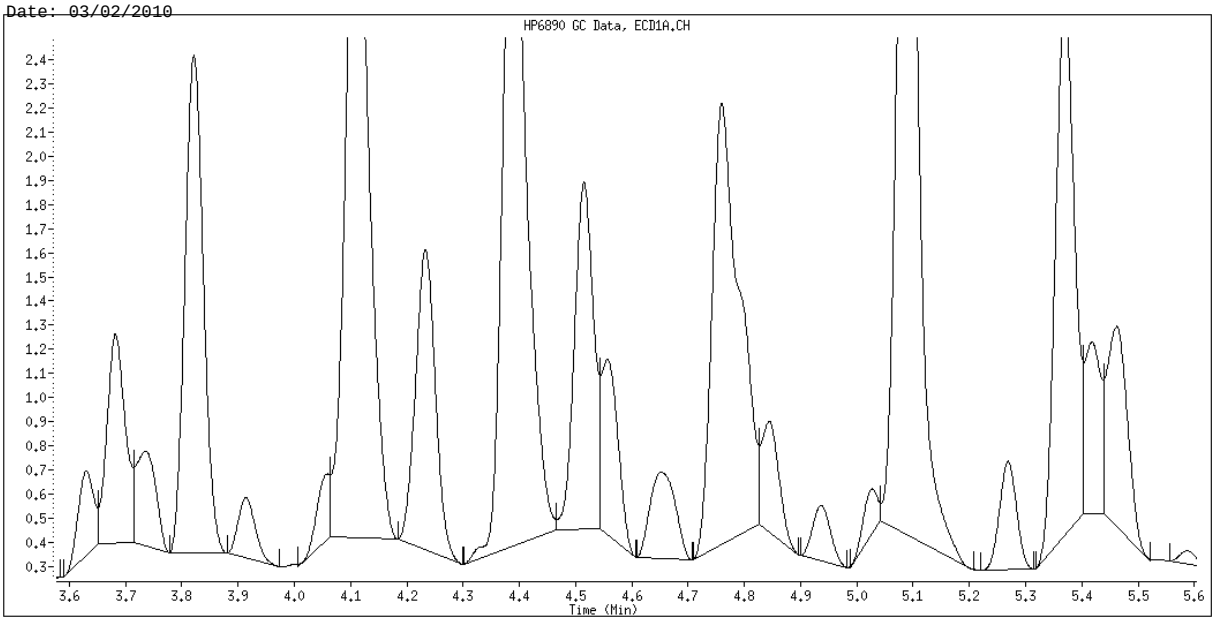
Original Integration



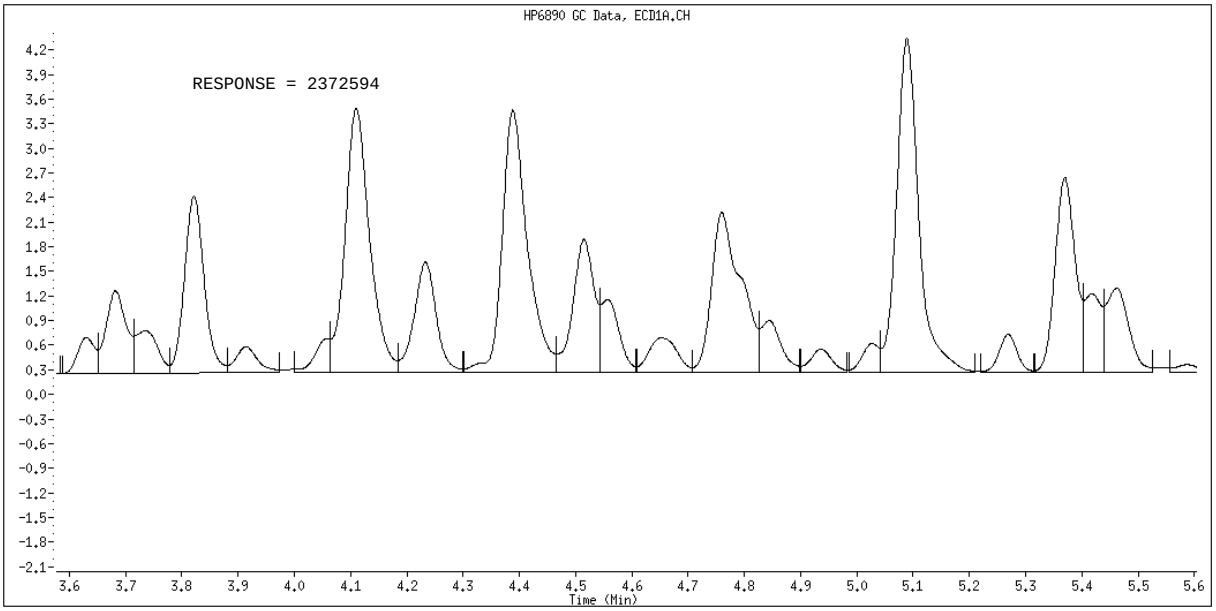
Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File Name: 011F1101.D
Inj. Date and Time: 01-MAR-2010 10:52
Instrument ID: a2hp13.i
Client ID: ATASS-015M-5036-SO
Compound Name: AROCLOR-1260
CAS #: 11096-82-5
Report Date: 03/02/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\012F1201.D
Report Date: 02-Mar-2010 07:56

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\012F1201.D
Lab Smp Id: LVTT01CD Client Smp ID: ATASS-015M-5036-SO
Inj Date : 01-MAR-2010 11:07
Operator : Inst ID: a2hp13.i
Smp Info : LVTT01CD
Misc Info : 12-AR1660TD.SUB,SMS.SPK
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100301-1.b\PCB13.m
Meth Date : 02-Mar-2010 07:21 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.130	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.161	1.163	-0.002	2165583	0.01743	5.785		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.432	1.433	-0.001	2586894	0.72737	241.4	80.00- 120.00	100.00(M)
1.715	1.718	-0.003	5060646	0.82228	272.9	133.77- 222.95	195.63
2.110	2.113	-0.003	11237252	0.86581	287.4	296.13- 493.54	434.39
2.232	2.234	-0.002	4319436	0.81101	269.2	119.35- 198.92	166.97
2.614	2.617	-0.003	3653961	0.68897	228.7	118.19- 196.98	141.25
Average of Peak Concentrations =					259.9		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.818	3.821	-0.003	2355300	0.78033	259.0	80.00- 120.00	100.00(M)
4.107	4.109	-0.002	3485824	0.82476	273.7	104.94- 174.91	148.00
4.385	4.388	-0.003	3480474	0.90382	300.0	96.91- 161.52	147.77
5.087	5.088	-0.001	4337953	0.75347	250.1	151.14- 251.90	184.18
5.366	5.370	-0.004	2431413	0.79291	263.2	79.65- 132.75	103.23
Average of Peak Concentrations =					269.2		

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$   9 DCB                                       CAS #: 2051-24-3
6.517    6.519   -0.002         1047754 0.01889    6.269
--------------------------------------------------------------------------------
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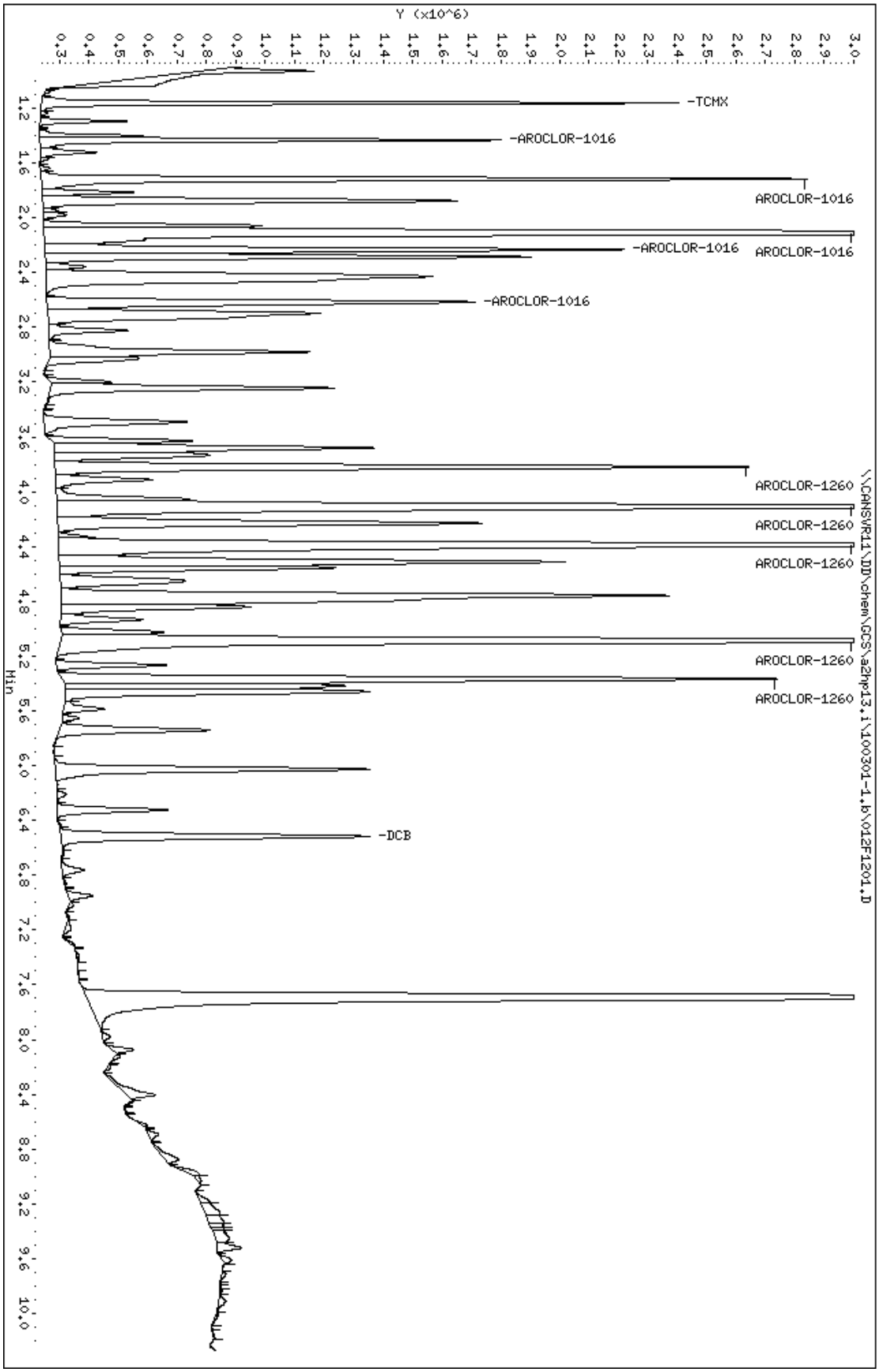
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100301-1.b\012F1201.D
Report Date: 02-Mar-2010 07:56

QC Flag Legend

M - Compound response manually integrated.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Date : 01-MAR-2010 11:07
Client ID: ATASS-015W-5036-SO
Sample Info: LVTT01CD
Volume Injected (uL): 1.0
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
Min
-TCMX
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
-DCB
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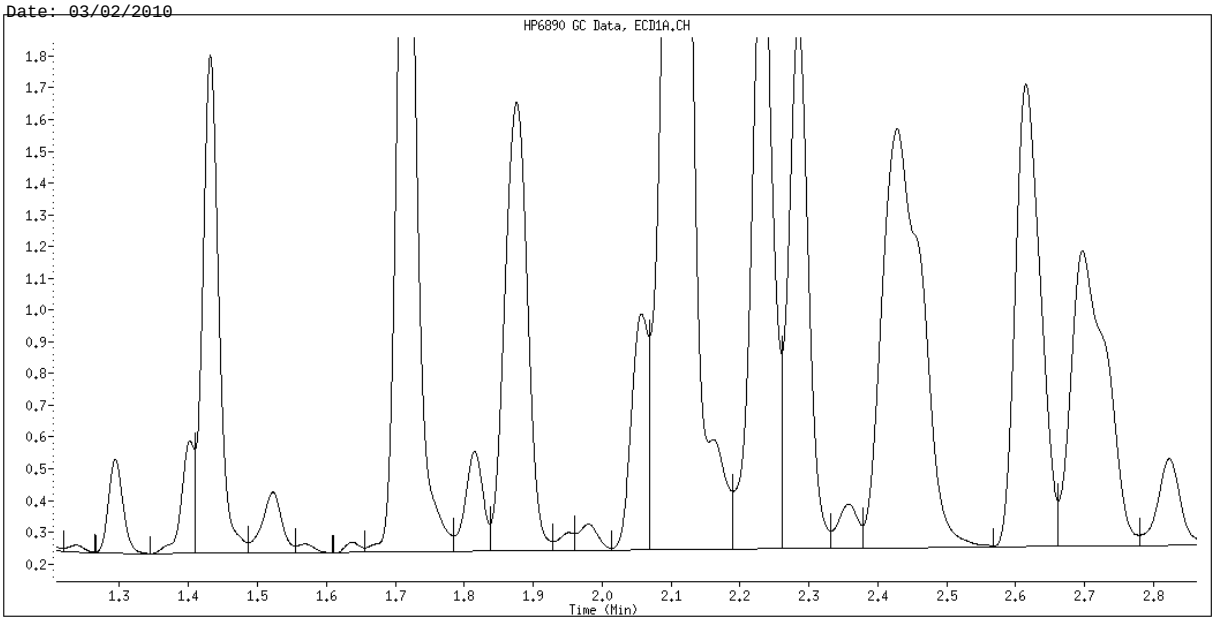
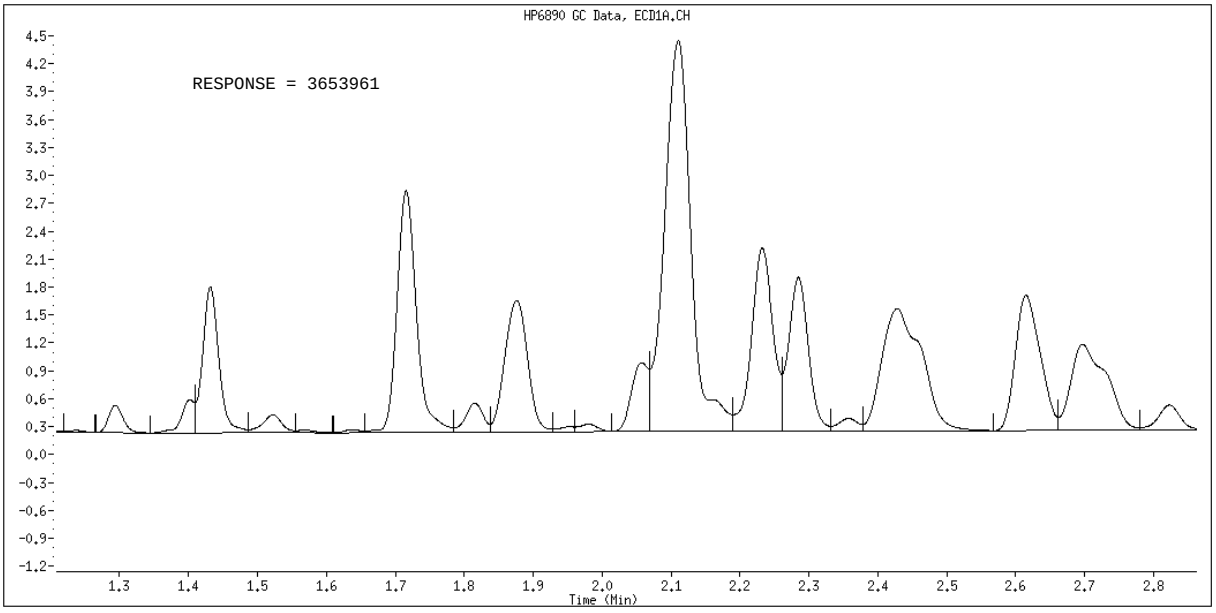
Data File Name: 012F1201.D
Inj. Date and Time: 01-MAR-2010 11:07
Instrument ID: a2hp13.i
Client ID: ATASS-015M-5036-SO
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/02/2010



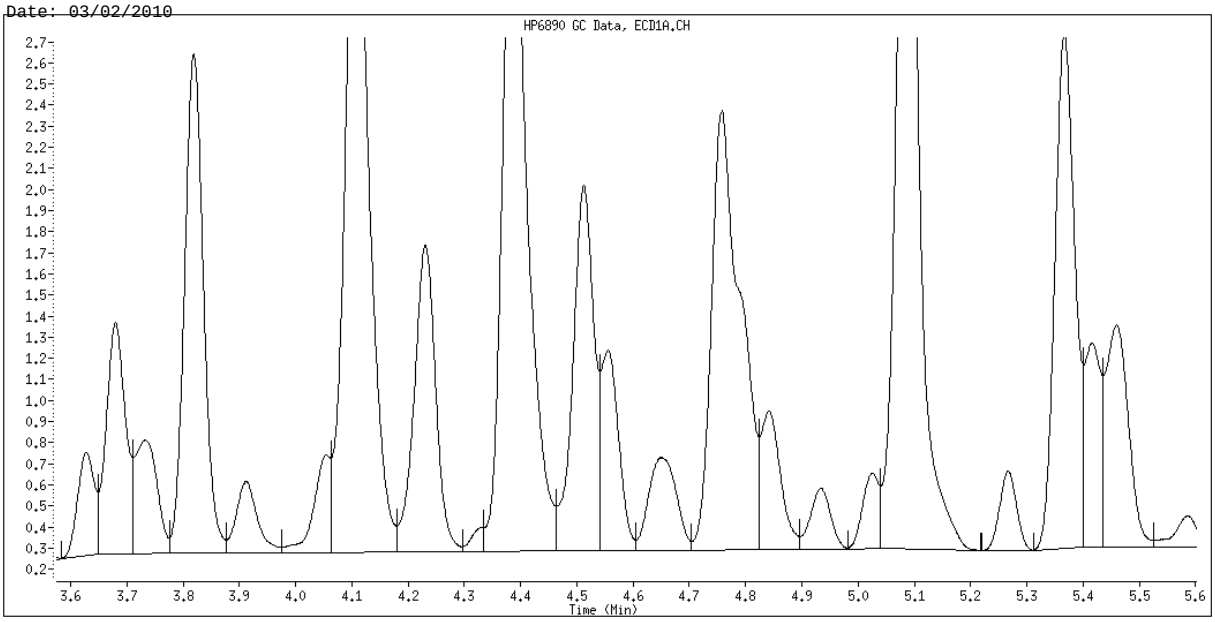
Original Integration



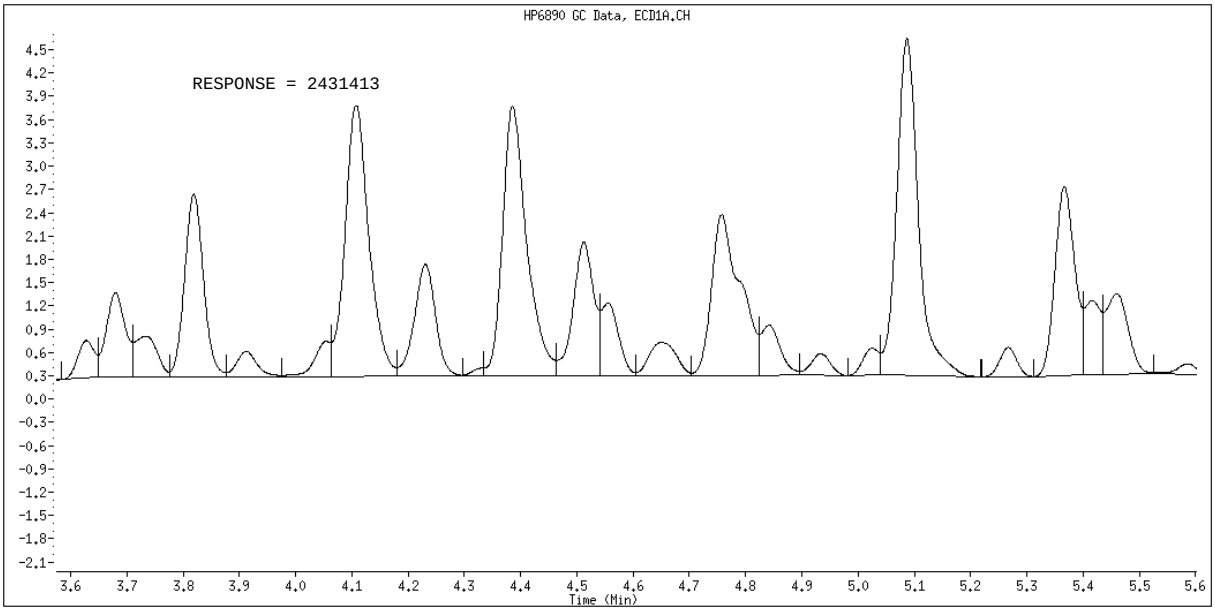
Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File Name: 012F1201.D
Inj. Date and Time: 01-MAR-2010 11:07
Instrument ID: a2hp13.i
Client ID: ATASS-015M-5036-SO
Compound Name: AROCLOR-1260
CAS #: 11096-82-5
Report Date: 03/02/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/16/2010
Time: 16:44:31

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct &
			_	_	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 402608 Eric Mills

Concentrationist: 402608 Eric Mills
000123 Leslie Howell

Reviewer/Date: EARLES / 2/24/10

QC BATCH: 0054023

PREP DATE: 2/23/10
COMP DATE: 2/24/10

PCBs (8082)
SOXHLET (Na2SO4) w/ACID STRIP (PCB)
SW846 3540C, SW846 3540C/3665A

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/03/10	3/10/10	A0B180429-012 **LVTT0-1-CD D**	D	63	QH	SOLID	30.13g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 10PPM #4615 1ML 2/.2 #4621
COMMENTS:															
3/02/10	3/10/10	A0B180429-004 **LVTQ3-1-A9**	D	63	QH	SOLID	30.06g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/03/10	3/10/10	A0B180429-012 **LVTT0-1-AE**	D	63	QH	SOLID	30.1g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/03/10	3/10/10	A0B180429-012 **LVTT0-1-CC S**	D	63	QH	SOLID	30.01g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 10PPM #4615 1ML 2/.2 #4621
COMMENTS:															
3/02/10	0/0/0	A0B230000-023 **LV0FJ-1-AA B**		63	QH	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															

1398

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0054023

PREP DATE: 2/23/10
COMP DATE: 2/24/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/02/10	0/0/0	A0B230000-023 **LV0FJ-1-AC C**		63	QH	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 10PPM #4615 1ML 2/.2 #4621
COMMENTS:															
3/03/10	3/11/10	A0B180524-004 **LVVF1-1-AR**	D	63	QH	SOLID	30.01g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/03/10	3/11/10	A0B180524-005 **LVVF6-1-AR**	D	63	QH	SOLID	30.16g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/03/10	3/11/10	A0B180524-001 **LVVFK-1-AF**	D	63	QH	SOLID	30.05g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/04/10	3/12/10	A0B190524-003 **LVWXC-1-AR**	D	63	QH	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/04/10	3/12/10	A0B190524-013 **LVWX8-1-AF**	D	63	QH	SOLID	30.17g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/04/10	3/12/10	A0B190524-002 **LVWW9-1-AF**	D	63	QH	SOLID	30.08g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/04/10	3/12/10	A0B190524-010 **LVWX1-1-AF**	D	63	QH	SOLID	30.16g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															

1399

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0054023

PREP DATE: 2/23/10
COMP DATE: 2/24/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID

S/S EM,JS

DCM/ACE H44E16 NA2SO4 H35594 HEXANE H46E60

B025 ASSOC.SAMPLES AND BLK.W/0054022

NUMBER OF WORK ORDERS IN BATCH: 13

1400

Lot/SDG Number: **A0B180429**

Sample Control Chain of Custody - TAL North Canton
GC Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0B180429-004	LVTQ31A9	PCBs (8082)	02/23/10	Eric Mills	02/24/10	Steve Earle	03/01/10	Lori Hass
A0B180429-012	LVTT01AE	PCBs (8082)	02/23/10	Eric Mills	02/24/10	Steve Earle	03/01/10	Lori Hass

TestAmerica
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METALS DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

FORMS DATA

Science Applications International Corp

Client Sample ID: B12SS-036M-5038-SO

TOTAL Metals

Lot-Sample #...: A0B180429-001 **Matrix.....:** SO
Date Sampled...: 02/16/10 10:30 **Date Received..:** 02/17/10
% Moisture.....: 1.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Silver	**0.041 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AC**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**11200**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AD**
		Dilution Factor: 10		Analysis Time..: 09:04	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.4		
Arsenic	**9.8**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AE**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**77.1**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AF**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.52**	**0.10**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AG**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**834**	**204**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AH**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.8		
Cadmium	**0.12 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AJ**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**13.4**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AK**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**23.3**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AL**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**22.0**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AM**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: B12SS-036M-5038-SO

TOTAL Metals

Lot-Sample #...: A0B180429-001 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**21500**	**51.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AN**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.048 J**	**0.10**	**mg/kg**	**SW846 7471A**	**02/24/10**	**LVTQQ1A3**
		Dilution Factor: 1		Analysis Time..: 15:58	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**551 B**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AP**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**1780**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AQ**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**1150 B**	**10.2**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AR**
		Dilution Factor: 10		Analysis Time..: 09:04	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.6		
Sodium	**32.3 J**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AT**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**17.9**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AU**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**16.3**	**0.31**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AV**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.14 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AW**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**0.81**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1AX**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: B12SS-036M-5038-SO

TOTAL Metals

Lot-Sample #...: A0B180429-001 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.20**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1A0**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**22.0**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1A1**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**84.5**	**4.1**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQQ1A2**
		Dilution Factor: 1		Analysis Time..: 07:51	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: B12SS-037M-5039-SO

TOTAL Metals

Lot-Sample #...: A0B180429-002 **Matrix.....:** SO
Date Sampled...: 02/16/10 14:17 **Date Received..:** 02/17/10
% Moisture.....: 2.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Silver	**0.037 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AK**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**11800**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AL**
		Dilution Factor: 10		Analysis Time..: 09:11	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.4		
Arsenic	**11.1**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AM**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**68.3**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AN**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.51**	**0.10**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AP**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**737**	**204**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AQ**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.9		
Cadmium	**0.093 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AR**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**9.3**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AT**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**36.1**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AU**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**15.3**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AV**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: B12SS-037M-5039-SO

TOTAL Metals

Lot-Sample #...: A0B180429-002 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**24100**	**51.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AW**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.044 J**	**0.10**	**mg/kg**	**SW846 7471A**	**02/24/10**	**LVTQ11AE**
		Dilution Factor: 1		Analysis Time..: 15:57	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**716 B**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AX**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**2140**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11A0**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**466 B**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11A1**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Sodium	**35.6 J**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11A2**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**25.4**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11A3**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**17.0**	**0.31**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11A4**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.11 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11A5**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**0.82**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11A6**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: B12SS-037M-5039-SO

TOTAL Metals

Lot-Sample #...: A0B180429-002 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.18 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AA**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**21.4**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AC**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**48.7**	**4.1**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ11AD**
		Dilution Factor: 1		Analysis Time..: 07:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: B12SS-037M-6049-FD

TOTAL Metals

Lot-Sample #...: A0B180429-003 **Matrix.....:** SO
Date Sampled...: 02/16/10 14:17 **Date Received..:** 02/17/10
% Moisture.....: 2.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Silver	**0.034 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AK**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**11900**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AL**
		Dilution Factor: 10		Analysis Time..: 09:18	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.4		
Arsenic	**11.4**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AM**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**67.5**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AN**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.54**	**0.10**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AP**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**749**	**204**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AQ**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.9		
Cadmium	**0.085 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AR**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**9.4**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AT**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**28.6**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AU**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**15.8**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AV**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: B12SS-037M-6049-FD

TOTAL Metals

Lot-Sample #...: A0B180429-003 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**25000**	**51.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AW**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.047 J**	**0.10**	**mg/kg**	**SW846 7471A**	**02/24/10**	**LVTQ21AE**
		Dilution Factor: 1		Analysis Time..: 16:10	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**783 B**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AX**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**2280**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21A0**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**459 B**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21A1**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Sodium	**42.1 J**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21A2**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**22.4**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21A3**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**14.7**	**0.31**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21A4**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.10 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21A5**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**0.88**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21A6**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: B12SS-037M-6049-FD

TOTAL Metals

Lot-Sample #...: A0B180429-003 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.18 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AA**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**20.9**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AC**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**50.0**	**4.1**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ21AD**
		Dilution Factor: 1		Analysis Time..: 08:01	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

TOTAL Metals

Lot-Sample #...: A0B180429-004 **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
% Moisture.....: 1.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Silver	**0.037 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AK**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0026		
Aluminum	**12600**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AL**
		Dilution Factor: 10		Analysis Time..: 09:25	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.4		
Arsenic	**10.3**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AM**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**65.0**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AN**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.57**	**0.10**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AP**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**586**	**204**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AQ**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.8		
Cadmium	**0.13 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AR**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**11.3**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AT**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**33.8**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AU**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**11.1**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AV**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

TOTAL Metals

Lot-Sample #...: A0B180429-004 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**22300**	**51.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AW**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.055 J**	**0.10**	**mg/kg**	**SW846 7471A**	**02/24/10**	**LVTQ31AE**
		Dilution Factor: 1		Analysis Time..: 16:04	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**755 B**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AX**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**2260**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31A0**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**919 B**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31A1**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Sodium	**39.5 J**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31A2**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**22.6**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31A3**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**19.0**	**0.31**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31A4**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.11 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31A5**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**0.86**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31A6**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

TOTAL Metals

Lot-Sample #...: A0B180429-004 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.18 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AA**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**23.4**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AC**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**53.6**	**4.1**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTQ31AD**
		Dilution Factor: 1		Analysis Time..: 08:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: B12SS-033-5041-SO

TOTAL Metals

Lot-Sample #...: A0B180429-006 **Matrix.....:** SO
Date Sampled...: 02/16/10 14:50 **Date Received..:** 02/17/10
% Moisture.....: 31

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Chromium	**14.9**	**0.73**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTRC1AD**
		Dilution Factor: 1		Analysis Time..: 13:29	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.23		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: B12SS-034-5042-SO

TOTAL Metals

Lot-Sample #...: A0B180429-007 **Matrix.....:** SO
Date Sampled...: 02/16/10 15:00 **Date Received..:** 02/17/10
% Moisture.....: 24

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Chromium	**17.5**	**0.66**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTRM1AD**
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: B12SS-035-5043-SO

TOTAL Metals

Lot-Sample #...: A0B180429-008 **Matrix.....:** SO
Date Sampled...: 02/16/10 14:50 **Date Received..:** 02/17/10
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Chromium	**16.1**	**0.63**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTRQ1AD**
		Dilution Factor: 1		Analysis Time..: 13:43	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.20		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASS-012-5033-SO

TOTAL Metals

Lot-Sample #...: A0B180429-009 **Matrix.....:** SO
Date Sampled...: 02/17/10 12:35 **Date Received..:** 02/17/10
% Moisture.....: 22

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Chromium	**20.7**	**0.64**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTTQ1AD**
		Dilution Factor: 1		Analysis Time..: 13:50	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASS-013-5034-SO

TOTAL Metals

Lot-Sample #...: A0B180429-010 **Matrix.....:** SO
Date Sampled...: 02/17/10 12:20 **Date Received..:** 02/17/10
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Chromium	**16.0**	**0.63**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTTW1AD**
		Dilution Factor: 1		Analysis Time..: 13:56	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.20		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASS-014-5035-SO

TOTAL Metals

Lot-Sample #...: A0B180429-011 **Matrix.....:** SO
Date Sampled...: 02/17/10 12:10 **Date Received..:** 02/17/10
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Chromium	**4.0**	**0.58**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTTX1AD**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.19		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

TOTAL Metals

Lot-Sample #...: A0B180429-012 **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
% Moisture.....: 1.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Silver	**0.026 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AF**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**13100**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AG**
		Dilution Factor: 10		Analysis Time..: 09:31	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.4		
Arsenic	**12.0**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AH**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**61.9**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AJ**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.54**	**0.10**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AK**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**5000**	**204**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AL**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.8		
Cadmium	**0.10 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AM**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**9.0**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AN**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**42.3**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AP**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**16.8**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AQ**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

TOTAL Metals

Lot-Sample #...: A0B180429-012 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**26300**	**51.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AR**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.038 J**	**0.10**	**mg/kg**	**SW846 7471A**	**02/24/10**	**LVTT01A6**
		Dilution Factor: 1		Analysis Time..: 16:11	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**1080 B**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AT**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**3680**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AU**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**418 B**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AV**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Sodium	**49.8 J**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AW**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**31.9**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01AX**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**15.0**	**0.31**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01A0**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.14 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01A1**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**0.86**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01A2**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

TOTAL Metals

Lot-Sample #...: A0B180429-012 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.18 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01A3**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**21.1**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01A4**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**53.7**	**4.1**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT01A5**
		Dilution Factor: 1		Analysis Time..: 08:10	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASS-016M-5037-SO

TOTAL Metals

Lot-Sample #...: A0B180429-014 **Matrix.....:** SO
Date Sampled...: 02/17/10 10:45 **Date Received..:** 02/17/10
% Moisture.....: 2.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Silver	**0.043 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AC**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**11400**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AD**
		Dilution Factor: 10		Analysis Time..: 09:38	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.4		
Arsenic	**10.0**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AE**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**70.8**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AF**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.54**	**0.10**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AG**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**1100**	**204**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AH**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.9		
Cadmium	**0.16 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AJ**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**10.6**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AK**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**25.2**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AL**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**10.1**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AM**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: ATASS-016M-5037-SO

TOTAL Metals

Lot-Sample #...: A0B180429-014 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**22300**	**51.1**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AN**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.062 J**	**0.10**	**mg/kg**	**SW846 7471A**	**02/24/10**	**LVTT91A3**
		Dilution Factor: 1		Analysis Time..: 15:55	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**661 B**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AP**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**2230**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AQ**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**1260 B**	**10.2**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AR**
		Dilution Factor: 10		Analysis Time..: 09:38	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.6		
Sodium	**31.4 J**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AT**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**18.1**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AU**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**18.9**	**0.31**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AV**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.11 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AW**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**0.90**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91AX**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: ATASS-016M-5037-SO

TOTAL Metals

Lot-Sample #...: A0B180429-014 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.18 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91A0**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**22.1**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91A1**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**49.6**	**4.1**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTT91A2**
		Dilution Factor: 1		Analysis Time..: 08:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASS-016M-6047-FD

TOTAL Metals

Lot-Sample #...: A0B180429-015 **Matrix.....:** SO
Date Sampled...: 02/17/10 10:45 **Date Received..:** 02/17/10
% Moisture.....: 2.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0053030						
Silver	**0.041 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AH**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**12200**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AJ**
		Dilution Factor: 10		Analysis Time..: 09:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.4		
Arsenic	**10.8**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AK**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**70.4**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AL**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.55**	**0.10**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AM**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**1150**	**204**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AN**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.9		
Cadmium	**0.16 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AP**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**10.0**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AQ**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**28.0**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AR**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**10.9**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AT**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: ATASS-016M-6047-FD

TOTAL Metals

Lot-Sample #...: A0B180429-015 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**24200**	**51.1**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AU**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.049 J**	**0.10**	**mg/kg**	**SW846 7471A**	**02/24/10**	**LVTVA1AE**
		Dilution Factor: 1		Analysis Time..: 15:52	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**753 B**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AV**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**2350**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AW**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**1170 B**	**10.2**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AX**
		Dilution Factor: 10		Analysis Time..: 09:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.6		
Sodium	**32.5 J**	**102**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1A0**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**20.0**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1A1**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**18.1**	**0.31**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1A2**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.11 J**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1A3**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**0.85**	**0.51**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1A4**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: ATASS-016M-6047-FD

TOTAL Metals

Lot-Sample #...: A0B180429-015 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.17 J**	**0.20**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AA**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**24.0**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AC**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**56.6**	**4.1**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVTVA1AD**
		Dilution Factor: 1		Analysis Time..: 08:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0B220000-030 **Prep Batch #...:** 0053030						
Aluminum	ND	10.0	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AC
		Dilution Factor: 1				
		Analysis Time..: 08:51	Analyst ID.....: 001637	Instrument ID..: I8		
Antimony	ND	0.50	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AV
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637	Instrument ID..: I8		
Arsenic	ND	0.50	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AD
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637	Instrument ID..: I8		
Barium	ND	1.0	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AE
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637	Instrument ID..: I8		
Beryllium	ND	0.10	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AF
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637	Instrument ID..: I8		
Cadmium	ND	0.20	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AH
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637	Instrument ID..: I8		
Calcium	ND	200	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AG
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637	Instrument ID..: I8		
Chromium	ND	0.50	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AK
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637	Instrument ID..: I8		
Cobalt	ND	0.50	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AJ
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637	Instrument ID..: I8		
Copper	ND	0.50	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AL
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637	Instrument ID..: I8		
Iron	ND	50.0	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AM
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637	Instrument ID..: I8		

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	0.30	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AU
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	
Magnesium	ND	100	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AP
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	
Manganese	**1.2**	**1.0**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVXLR1AQ**
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	
Mercury	ND	0.10	mg/kg	SW846 7471A	02/24/10	LVXLR1A2
		Dilution Factor: 1				
		Analysis Time..: 15:45	Analyst ID.....: 001576		Instrument ID..: H1	
Nickel	ND	1.0	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AT
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	
Potassium	**4.2 J**	**100**	**mg/kg**	**SW846 6020**	**02/24-02/25/10**	**LVXLR1AN**
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	
Selenium	ND	0.50	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AW
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	
Silver	ND	0.50	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AA
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	
Sodium	ND	100	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AR
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	
Thallium	ND	0.20	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1AX
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	
Vanadium	ND	1.0	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1A0
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	
Zinc	ND	4.0	mg/kg	SW846 6020	02/24-02/25/10	LVXLR1A1
		Dilution Factor: 1				
		Analysis Time..: 07:42	Analyst ID.....: 001637		Instrument ID..: I8	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0B220000-030 **Prep Batch #...:** 0053030					
Silver	101	(60 - 114)	SW846 6020	02/24-02/25/10	LVXLR1A3
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Aluminum	99	(80 - 120)	SW846 6020	02/24-02/25/10	LVXLR1A4
		Dilution Factor: 1	Analysis Time..: 08:57	Analyst ID.....: 001637	
		Instrument ID..: I8			
Arsenic	85	(73 - 110)	SW846 6020	02/24-02/25/10	LVXLR1A5
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Barium	96	(70 - 110)	SW846 6020	02/24-02/25/10	LVXLR1A6
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Beryllium	90	(79 - 110)	SW846 6020	02/24-02/25/10	LVXLR1A7
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Calcium	96	(80 - 120)	SW846 6020	02/24-02/25/10	LVXLR1A8
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Cadmium	92	(74 - 110)	SW846 6020	02/24-02/25/10	LVXLR1A9
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Cobalt	98	(74 - 110)	SW846 6020	02/24-02/25/10	LVXLR1CA
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Chromium	97	(70 - 110)	SW846 6020	02/24-02/25/10	LVXLR1CC
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Copper	101	(73 - 110)	SW846 6020	02/24-02/25/10	LVXLR1CD
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	100	(80 - 120)	SW846 6020	02/24-02/25/10	LVXLR1CE
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Potassium	92	(80 - 120)	SW846 6020	02/24-02/25/10	LVXLR1CF
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Magnesium	102	(80 - 120)	SW846 6020	02/24-02/25/10	LVXLR1CG
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Manganese	105	(80 - 120)	SW846 6020	02/24-02/25/10	LVXLR1CH
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Sodium	98	(80 - 120)	SW846 6020	02/24-02/25/10	LVXLR1CJ
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Nickel	99	(75 - 110)	SW846 6020	02/24-02/25/10	LVXLR1CK
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Lead	97	(75 - 110)	SW846 6020	02/24-02/25/10	LVXLR1CL
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Antimony	88	(68 - 113)	SW846 6020	02/24-02/25/10	LVXLR1CM
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Selenium	79	(65 - 110)	SW846 6020	02/24-02/25/10	LVXLR1CN
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Thallium	103	(71 - 110)	SW846 6020	02/24-02/25/10	LVXLR1CP
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			
Vanadium	96	(72 - 110)	SW846 6020	02/24-02/25/10	LVXLR1CQ
		Dilution Factor: 1	Analysis Time..: 07:46	Analyst ID.....: 001637	
		Instrument ID..: I8			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	98	(72 - 113)	SW846 6020	02/24-02/25/10	LVXLR1CR
		Dilution Factor: 1	Analysis Time..: 07:46		Analyst ID.....: 001637
		Instrument ID..: I8			
Mercury	100	(80 - 120)	SW846 7471A	02/24/10	LVXLR1CT
		Dilution Factor: 1	Analysis Time..: 15:46		Analyst ID.....: 001576
		Instrument ID..: H1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0B220000-030 **Prep Batch #...:** 0053030							
Silver	10.0	10.1	mg/kg	101	SW846 6020	02/24-02/25/10	LVXLR1A3
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Aluminum	1000	993	mg/kg	99	SW846 6020	02/24-02/25/10	LVXLR1A4
			Dilution Factor: 1		Analysis Time..: 08:57	Analyst ID.....: 001637	
			Instrument ID..: I8				
Arsenic	10.0	8.5	mg/kg	85	SW846 6020	02/24-02/25/10	LVXLR1A5
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Barium	10.0	9.6	mg/kg	96	SW846 6020	02/24-02/25/10	LVXLR1A6
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Beryllium	10.0	9.0	mg/kg	90	SW846 6020	02/24-02/25/10	LVXLR1A7
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Calcium	1000	963	mg/kg	96	SW846 6020	02/24-02/25/10	LVXLR1A8
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Cadmium	10.0	9.2	mg/kg	92	SW846 6020	02/24-02/25/10	LVXLR1A9
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Cobalt	10.0	9.8	mg/kg	98	SW846 6020	02/24-02/25/10	LVXLR1CA
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Chromium	10.0	9.7	mg/kg	97	SW846 6020	02/24-02/25/10	LVXLR1CC
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Copper	10.0	10.1	mg/kg	101	SW846 6020	02/24-02/25/10	LVXLR1CD
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1000	998	mg/kg	100	SW846 6020	02/24-02/25/10	LVXLR1CE
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Potassium	1000	917	mg/kg	92	SW846 6020	02/24-02/25/10	LVXLR1CF
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Magnesium	1000	1020	mg/kg	102	SW846 6020	02/24-02/25/10	LVXLR1CG
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Manganese	10.0	10.5	mg/kg	105	SW846 6020	02/24-02/25/10	LVXLR1CH
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Sodium	1000	984	mg/kg	98	SW846 6020	02/24-02/25/10	LVXLR1CJ
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Nickel	10.0	9.9	mg/kg	99	SW846 6020	02/24-02/25/10	LVXLR1CK
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Lead	10.0	9.7	mg/kg	97	SW846 6020	02/24-02/25/10	LVXLR1CL
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Antimony	10.0	8.8	mg/kg	88	SW846 6020	02/24-02/25/10	LVXLR1CM
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Selenium	10.0	7.9	mg/kg	79	SW846 6020	02/24-02/25/10	LVXLR1CN
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Thallium	10.0	10.3	mg/kg	103	SW846 6020	02/24-02/25/10	LVXLR1CP
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Vanadium	10.0	9.6	mg/kg	96	SW846 6020	02/24-02/25/10	LVXLR1CQ
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	10.0	9.8	mg/kg	98	SW846 6020	02/24-02/25/10	LVXLR1CR
			Dilution Factor: 1		Analysis Time..: 07:46	Analyst ID.....: 001637	
			Instrument ID..: I8				
Mercury	0.83	0.83	mg/kg	100	SW846 7471A	02/24/10	LVXLR1CT
			Dilution Factor: 1		Analysis Time..: 15:46	Analyst ID.....: 001576	
			Instrument ID..: H1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/18/10 13:55 **Date Received..:** 02/19/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0B190524-001 **Prep Batch #...:** 0053030							
						% Moisture.....: 38	
Aluminum	NC,MSB	(70 - 130)			SW846 6020	02/24-02/25/10	LVWW51AK
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	02/24-02/25/10	LVWW51AL
		Dilution Factor: 5					
		Analysis Time..: 12:08		Instrument ID..: I8		Analyst ID.....: 001637	
Antimony	29 N	(75 - 125)			SW846 6020	02/24-02/25/10	LVWW51C6
	29 N	(75 - 125)	2.4	(0-20)	SW846 6020	02/24-02/25/10	LVWW51C7
		Dilution Factor: 5					
		Analysis Time..: 10:26		Instrument ID..: I8		Analyst ID.....: 001637	
Arsenic	87	(23 - 131)			SW846 6020	02/24-02/25/10	LVWW51AN
	84	(23 - 131)	2.2	(0-20)	SW846 6020	02/24-02/25/10	LVWW51AP
		Dilution Factor: 5					
		Analysis Time..: 10:26		Instrument ID..: I8		Analyst ID.....: 001637	
Barium	NC,MSB	(10 - 199)			SW846 6020	02/24-02/25/10	LVWW51AR
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	02/24-02/25/10	LVWW51AT
		Dilution Factor: 5					
		Analysis Time..: 10:26		Instrument ID..: I8		Analyst ID.....: 001637	
Beryllium	97	(58 - 112)			SW846 6020	02/24-02/25/10	LVWW51AV
	99	(58 - 112)	2.2	(0-20)	SW846 6020	02/24-02/25/10	LVWW51AW
		Dilution Factor: 5					
		Analysis Time..: 10:26		Instrument ID..: I8		Analyst ID.....: 001637	
Cadmium	95	(58 - 110)			SW846 6020	02/24-02/25/10	LVWW51A3
	94	(58 - 110)	0.46	(0-20)	SW846 6020	02/24-02/25/10	LVWW51A4
		Dilution Factor: 5					
		Analysis Time..: 10:26		Instrument ID..: I8		Analyst ID.....: 001637	
Calcium	103	(70 - 130)			SW846 6020	02/24-02/25/10	LVWW51A0
	72	(70 - 130)	16	(0-20)	SW846 6020	02/24-02/25/10	LVWW51A1
		Dilution Factor: 5					
		Analysis Time..: 10:26		Instrument ID..: I8		Analyst ID.....: 001637	
Chromium	97	(10 - 199)			SW846 6020	02/24-02/25/10	LVWW51A9
	95	(10 - 199)	1.3	(0-20)	SW846 6020	02/24-02/25/10	LVWW51CA
		Dilution Factor: 5					
		Analysis Time..: 10:26		Instrument ID..: I8		Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/18/10 13:55 **Date Received..:** 02/19/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	76	(55 - 110)			SW846 6020	02/24-02/25/10	LVWW51A6
	73	(55 - 110)	2.0	(0-20)	SW846 6020	02/24-02/25/10	LVWW51A7
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Copper	96	(10 - 199)			SW846 6020	02/24-02/25/10	LVWW51CD
	93	(10 - 199)	1.6	(0-20)	SW846 6020	02/24-02/25/10	LVWW51CE
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Iron	NC,MSB	(70 - 130)			SW846 6020	02/24-02/25/10	LVWW51CG
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	02/24-02/25/10	LVWW51CH
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Lead	67	(10 - 199)			SW846 6020	02/24-02/25/10	LVWW51C3
	67	(10 - 199)	0.08	(0-20)	SW846 6020	02/24-02/25/10	LVWW51C4
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Magnesium	102	(70 - 130)			SW846 6020	02/24-02/25/10	LVWW51CN
	103	(70 - 130)	0.37	(0-20)	SW846 6020	02/24-02/25/10	LVWW51CP
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Manganese	NC,MSB	(10 - 199)			SW846 6020	02/24-02/25/10	LVWW51CR
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	02/24-02/25/10	LVWW51CT
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Mercury	103	(80 - 120)			SW846 7471A	02/24/10	LVWW51DN
	106	(80 - 120)	1.7	(0-20)	SW846 7471A	02/24/10	LVWW51DP
		Dilution Factor: 1					
		Analysis Time..: 15:49			Instrument ID..: H1	Analyst ID.....: 001576	
Nickel	102	(10 - 176)			SW846 6020	02/24-02/25/10	LVWW51C0
	98	(10 - 176)	1.9	(0-20)	SW846 6020	02/24-02/25/10	LVWW51C1
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Potassium	87	(70 - 130)			SW846 6020	02/24-02/25/10	LVWW51CK
	87	(70 - 130)	0.46	(0-20)	SW846 6020	02/24-02/25/10	LVWW51CL
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/18/10 13:55 **Date Received..:** 02/19/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	84	(39 - 116)			SW846 6020	02/24-02/25/10	LVWW51C9
	86	(39 - 116)	2.5	(0-20)	SW846 6020	02/24-02/25/10	LVWW51DA
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Silver	99	(75 - 125)			SW846 6020	02/24-02/25/10	LVWW51AG
	101	(75 - 125)	1.5	(0-20)	SW846 6020	02/24-02/25/10	LVWW51AH
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Sodium	103	(70 - 130)			SW846 6020	02/24-02/25/10	LVWW51CV
	103	(70 - 130)	0.19	(0-20)	SW846 6020	02/24-02/25/10	LVWW51CW
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Thallium	96	(62 - 110)			SW846 6020	02/24-02/25/10	LVWW51DD
	95	(62 - 110)	0.62	(0-20)	SW846 6020	02/24-02/25/10	LVWW51DE
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Vanadium	90	(39 - 129)			SW846 6020	02/24-02/25/10	LVWW51DG
	86	(39 - 129)	1.8	(0-20)	SW846 6020	02/24-02/25/10	LVWW51DH
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	
Zinc	NC,MSB	(10 - 199)			SW846 6020	02/24-02/25/10	LVWW51DK
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	02/24-02/25/10	LVWW51DL
		Dilution Factor: 5					
		Analysis Time..: 10:26			Instrument ID..: I8	Analyst ID.....: 001637	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/18/10 13:55 **Date Received..:** 02/19/10

MS Lot-Sample #: A0B190524-001 **Prep Batch #...:** 0053030
% Moisture.....: 38

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	8100	1610	10400	mg/kg			SW846 6020	02/24-02/25/10	LVWW51AK
			Qualifiers: NC,MSB						
	8100	1610	10500	mg/kg			SW846 6020	02/24-02/25/10	LVWW51AL
			Qualifiers: NC,MSB						
			Dilution Factor: 5						
			Analysis Time..: 12:08	Instrument ID..: I8			Analyst ID.....: 001637		
Antimony	0.14	16.1	4.7 N	mg/kg	29		SW846 6020	02/24-02/25/10	LVWW51C6
	0.14	16.1	4.9 N	mg/kg	29	2.4	SW846 6020	02/24-02/25/10	LVWW51C7
			Dilution Factor: 5						
			Analysis Time..: 10:26	Instrument ID..: I8			Analyst ID.....: 001637		
Arsenic	7.5	16.1	21.5	mg/kg	87		SW846 6020	02/24-02/25/10	LVWW51AN
	7.5	16.1	21.0	mg/kg	84	2.2	SW846 6020	02/24-02/25/10	LVWW51AP
			Dilution Factor: 5						
			Analysis Time..: 10:26	Instrument ID..: I8			Analyst ID.....: 001637		
Barium	69.4	16.1	77.4	mg/kg			SW846 6020	02/24-02/25/10	LVWW51AR
			Qualifiers: NC,MSB						
	69.4	16.1	72.5	mg/kg			SW846 6020	02/24-02/25/10	LVWW51AT
			Qualifiers: NC,MSB						
			Dilution Factor: 5						
			Analysis Time..: 10:26	Instrument ID..: I8			Analyst ID.....: 001637		
Beryllium	0.76	16.1	16.3	mg/kg	97		SW846 6020	02/24-02/25/10	LVWW51AV
	0.76	16.1	16.7	mg/kg	99	2.2	SW846 6020	02/24-02/25/10	LVWW51AW
			Dilution Factor: 5						
			Analysis Time..: 10:26	Instrument ID..: I8			Analyst ID.....: 001637		
Cadmium	0.42	16.1	15.7	mg/kg	95		SW846 6020	02/24-02/25/10	LVWW51A3
	0.42	16.1	15.6	mg/kg	94	0.46	SW846 6020	02/24-02/25/10	LVWW51A4
			Dilution Factor: 5						
			Analysis Time..: 10:26	Instrument ID..: I8			Analyst ID.....: 001637		

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/18/10 13:55 **Date Received..:** 02/19/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	1760	1610	3420	mg/kg	103		SW846 6020	02/24-02/25/10	LVWW51A0
	1760	1610	2920	mg/kg	72	16	SW846 6020	02/24-02/25/10	LVWW51A1
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Chromium									
	9.9	16.1	25.5	mg/kg	97		SW846 6020	02/24-02/25/10	LVWW51A9
	9.9	16.1	25.2	mg/kg	95	1.3	SW846 6020	02/24-02/25/10	LVWW51CA
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Cobalt									
	9.6	16.1	21.8	mg/kg	76		SW846 6020	02/24-02/25/10	LVWW51A6
	9.6	16.1	21.4	mg/kg	73	2.0	SW846 6020	02/24-02/25/10	LVWW51A7
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Copper									
	11.1	16.1	26.6	mg/kg	96		SW846 6020	02/24-02/25/10	LVWW51CD
	11.1	16.1	26.2	mg/kg	93	1.6	SW846 6020	02/24-02/25/10	LVWW51CE
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Iron									
	18500	1610	19600	mg/kg			SW846 6020	02/24-02/25/10	LVWW51CG
			Qualifiers: NC,MSB						
	18500	1610	18700	mg/kg			SW846 6020	02/24-02/25/10	LVWW51CH
			Qualifiers: NC,MSB						
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Lead									
	26.0	16.1	36.8	mg/kg	67		SW846 6020	02/24-02/25/10	LVWW51C3
	26.0	16.1	36.8	mg/kg	67	0.08	SW846 6020	02/24-02/25/10	LVWW51C4
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Magnesium									
	1390	1610	3040	mg/kg	102		SW846 6020	02/24-02/25/10	LVWW51CN
	1390	1610	3050	mg/kg	103	0.37	SW846 6020	02/24-02/25/10	LVWW51CP
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/18/10 13:55 **Date Received..:** 02/19/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	1130	16.1	582	mg/kg			SW846 6020	02/24-02/25/10	LVWW51CR
			Qualifiers: NC,MSB						
	1130	16.1	559	mg/kg			SW846 6020	02/24-02/25/10	LVWW51CT
			Qualifiers: NC,MSB						
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Mercury									
	0.086	0.27	0.36	mg/kg	103		SW846 7471A	02/24/10	LVWW51DN
	0.086	0.27	0.37	mg/kg	106	1.7	SW846 7471A	02/24/10	LVWW51DP
			Dilution Factor: 1						
			Analysis Time..: 15:49		Instrument ID..: H1			Analyst ID.....: 001576	
Nickel									
	17.6	16.1	33.9	mg/kg	102		SW846 6020	02/24-02/25/10	LVWW51C0
	17.6	16.1	33.3	mg/kg	98	1.9	SW846 6020	02/24-02/25/10	LVWW51C1
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Potassium									
	519	1610	1920	mg/kg	87		SW846 6020	02/24-02/25/10	LVWW51CK
	519	1610	1920	mg/kg	87	0.46	SW846 6020	02/24-02/25/10	LVWW51CL
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Selenium									
	1.0	16.1	14.5	mg/kg	84		SW846 6020	02/24-02/25/10	LVWW51C9
	1.0	16.1	14.9	mg/kg	86	2.5	SW846 6020	02/24-02/25/10	LVWW51DA
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Silver									
	0.056	16.1	16.0	mg/kg	99		SW846 6020	02/24-02/25/10	LVWW51AG
	0.056	16.1	16.2	mg/kg	101	1.5	SW846 6020	02/24-02/25/10	LVWW51AH
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Sodium									
	32.1	1610	1690	mg/kg	103		SW846 6020	02/24-02/25/10	LVWW51CV
	32.1	1610	1700	mg/kg	103	0.19	SW846 6020	02/24-02/25/10	LVWW51CW
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/18/10 13:55 **Date Received..:** 02/19/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium									
	0.16	16.1	15.6	mg/kg	96		SW846 6020	02/24-02/25/10	LVWW51DD
	0.16	16.1	15.5	mg/kg	95	0.62	SW846 6020	02/24-02/25/10	LVWW51DE
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Vanadium									
	16.7	16.1	31.1	mg/kg	90		SW846 6020	02/24-02/25/10	LVWW51DG
	16.7	16.1	30.6	mg/kg	86	1.8	SW846 6020	02/24-02/25/10	LVWW51DH
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	
Zinc									
	160	16.1	183	mg/kg			SW846 6020	02/24-02/25/10	LVWW51DK
			Qualifiers: NC,MSB						
	160	16.1	192	mg/kg			SW846 6020	02/24-02/25/10	LVWW51DL
			Qualifiers: NC,MSB						
			Dilution Factor: 5						
			Analysis Time..: 10:26		Instrument ID..: I8			Analyst ID.....: 001637	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

N Spiked analyte recovery is outside stated control limits.

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10224a.prn **Acceptable Range:** 90% - 110%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck5ICV 2/24/2010 1:38 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.39	**95.6**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: i80225a.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICV 2/25/2010 6:56 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	400.0	404.83	**101.2**								
Antimony	121	80.0	82.49	**103.1**								
Arsenic	75	80.0	80.24	**100.3**								
Barium	137	80.0	80.63	**100.8**								
Beryllium	9	80.0	82.43	**103.0**								
Cadmium	111	80.0	83.83	**104.8**								
Calcium	43	40000.0	40666.67	**101.7**								
Chromium	52	80.0	82.31	**102.9**								
Cobalt	59	80.0	81.69	**102.1**								
Copper	65	80.0	83.54	**104.4**								
Iron	56	20000.0	19940.00	**99.7**								
Lead	208	80.0	80.60	**100.7**								
Magnesium	25	40000.0	41006.67	**102.5**								
Manganese	55	400.0	414.47	**103.6**								
Nickel	60	80.0	83.11	**103.9**								
Potassium	39	40000.0	37723.33	**94.3**								
Selenium	78	80.0	80.69	**100.9**								
Silver	107	80.0	84.99	**106.2**								
Sodium	23	40000.0	41036.67	**102.6**								
Thallium	205	80.0	86.22	**107.8**								
Vanadium	51	80.0	81.33	**101.7**								
Zinc	66	80.0	82.76	**103.4**								

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: hg10224a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck2CCV 2/24/2010 1:41 PM Found	% Rec	Ck2CCV 2/24/2010 2:17 PM Found	% Rec	Ck2CCV 2/24/2010 2:32 PM Found	% Rec	Ck2CCV 2/24/2010 2:46 PM Found	% Rec	Ck2CCV 2/24/2010 3:25 PM Found	% Rec
Mercury	253.7	5.0	5.14	**102.7**	5.13	**102.6**	5.15	**103.1**	4.49	**89.7**	5.15	**103.0**

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: hg10224a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck2CCV 2/24/2010 3:39 PM Found	% Rec	Ck2CCV 2/24/2010 3:53 PM Found	% Rec	Ck2CCV 2/24/2010 4:07 PM Found	% Rec	Ck2CCV 2/24/2010 4:21 PM Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.17	**103.4**	5.15	**102.9**	5.15	**103.0**	5.24	**104.8**		

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: i80225a.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CCV 2/25/2010 7:26 AM Found	% Rec	CCV 1 2/25/2010 8:24 AM Found	% Rec	CCV 2/25/2010 8:37 AM Found	% Rec	CCV 2/25/2010 9:52 AM Found	% Rec	CCV 2 2/25/2010 11:13 AM Found	% Rec
Aluminum	27	500.0	505.83	**101.2**	590.43	**118.1**	523.13	**104.6**	507.37	**101.5**	573.77	**114.8**
Antimony	121	100.0	100.15	**100.2**	98.45	**98.5**	100.08	**100.1**	101.30	**101.3**	102.23	**102.2**
Arsenic	75	100.0	102.27	**102.3**	99.81	**99.8**	100.94	**100.9**	101.20	**101.2**	101.17	**101.2**
Barium	137	100.0	99.34	**99.3**	97.68	**97.7**	99.33	**99.3**	100.05	**100.1**	100.12	**100.1**
Beryllium	9	100.0	99.30	**99.3**	100.38	**100.4**	102.13	**102.1**	101.93	**101.9**	101.73	**101.7**
Cadmium	111	100.0	102.07	**102.1**	102.03	**102.0**	103.07	**103.1**	103.70	**103.7**	103.73	**103.7**
Calcium	43	50000.0	49210.00	**98.4**	47560.00	**95.1**	48623.33	**97.2**	48203.33	**96.4**	47870.00	**95.7**
Chromium	52	100.0	99.10	**99.1**	99.70	**99.7**	99.64	**99.6**	100.25	**100.3**	100.79	**100.8**
Cobalt	59	100.0	99.68	**99.7**	99.95	**99.9**	100.02	**100.0**	101.33	**101.3**	101.33	**101.3**
Copper	65	100.0	102.53	**102.5**	102.90	**102.9**	102.47	**102.5**	103.63	**103.6**	103.13	**103.1**
Iron	56	25000.0	24603.33	**98.4**	25106.67	**100.4**	25360.00	**101.4**	25630.00	**102.5**	24690.00	**98.8**
Lead	208	100.0	98.84	**98.8**	97.95	**97.9**	99.00	**99.0**	99.78	**99.8**	100.60	**100.6**
Magnesium	25	50000.0	50426.67	**100.9**	50793.33	**101.6**	50470.00	**100.9**	51590.00	**103.2**	52016.67	**104.0**
Manganese	55	500.0	511.63	**102.3**	516.07	**103.2**	512.77	**102.6**	513.40	**102.7**	516.50	**103.3**
Nickel	60	100.0	99.52	**99.5**	100.09	**100.1**	100.60	**100.6**	101.57	**101.6**	101.45	**101.5**
Potassium	39	50000.0	49766.67	**99.5**	50350.00	**100.7**	49796.67	**99.6**	50770.00	**101.5**	50706.67	**101.4**
Selenium	78	100.0	104.00	**104.0**	102.50	**102.5**	103.93	**103.9**	102.03	**102.0**	103.53	**103.5**
Silver	107	100.0	102.10	**102.1**	102.10	**102.1**	102.90	**102.9**	103.67	**103.7**	103.67	**103.7**
Sodium	23	50000.0	49490.00	**99.0**	52326.67	**104.7**	50216.67	**100.4**	50580.00	**101.2**	52406.67	**104.8**
Thallium	205	100.0	105.73	**105.7**	105.53	**105.5**	104.87	**104.9**	105.77	**105.8**	107.10	**107.1**
Vanadium	51	100.0	98.47	**98.5**	98.16	**98.2**	98.14	**98.1**	99.49	**99.5**	99.62	**99.6**
Zinc	66	100.0	103.67	**103.7**	103.07	**103.1**	103.83	**103.8**	104.20	**104.2**	104.60	**104.6**

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: i80225a.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CCV 2/25/2010 11:34 AM Found	% Rec	CCV 2/25/2010 12:55 PM Found	% Rec	CCV 2/25/2010 1:16 PM Found	% Rec	CCV 3 2/25/2010 2:30 PM Found	% Rec	Found	% Rec
Aluminum	27	500.0	548.50	**109.7**	531.80	**106.4**	532.73	**106.5**	535.60	**107.1**		
Antimony	121	100.0	102.00	**102.0**	104.50	**104.5**	102.97	**103.0**	103.43	**103.4**		
Arsenic	75	100.0	101.07	**101.1**	102.60	**102.6**	102.03	**102.0**	102.37	**102.4**		
Barium	137	100.0	99.99	**100.0**	102.33	**102.3**	101.80	**101.8**	103.03	**103.0**		
Beryllium	9	100.0	102.03	**102.0**	102.80	**102.8**	102.47	**102.5**	104.40	**104.4**		
Cadmium	111	100.0	104.43	**104.4**	106.80	**106.8**	105.53	**105.5**	107.03	**107.0**		
Calcium	43	50000.0	48243.33	**96.5**	48426.67	**96.9**	48686.67	**97.4**	50210.00	**100.4**		
Chromium	52	100.0	101.40	**101.4**	101.37	**101.4**	101.57	**101.6**	101.37	**101.4**		
Cobalt	59	100.0	101.46	**101.5**	102.13	**102.1**	101.87	**101.9**	101.80	**101.8**		
Copper	65	100.0	103.37	**103.4**	104.07	**104.1**	104.40	**104.4**	103.00	**103.0**		
Iron	56	25000.0	24716.67	**98.9**	24290.00	**97.2**	24636.67	**98.5**	23500.00	**94.0**		
Lead	208	100.0	100.58	**100.6**	101.90	**101.9**	101.90	**101.9**	102.73	**102.7**		
Magnesium	25	50000.0	51690.00	**103.4**	52453.33	**104.9**	52180.00	**104.4**	51950.00	**103.9**		
Manganese	55	500.0	519.07	**103.8**	518.40	**103.7**	519.70	**103.9**	514.17	**102.8**		
Nickel	60	100.0	103.00	**103.0**	100.97	**101.0**	101.63	**101.6**	102.93	**102.9**		
Potassium	39	50000.0	48990.00	**98.0**	51816.67	**103.6**	52626.67	**105.3**	52586.67	**105.2**		
Selenium	78	100.0	101.94	**101.9**	104.60	**104.6**	105.07	**105.1**	101.50	**101.5**		
Silver	107	100.0	104.73	**104.7**	105.87	**105.9**	105.30	**105.3**	105.83	**105.8**		
Sodium	23	50000.0	49956.67	**99.9**	49453.33	**98.9**	49040.00	**98.1**	48210.00	**96.4**		
Thallium	205	100.0	107.17	**107.2**	108.00	**108.0**	107.50	**107.5**	107.67	**107.7**		
Vanadium	51	100.0	100.06	**100.1**	100.24	**100.2**	100.01	**100.0**	101.20	**101.2**		
Zinc	66	100.0	106.30	**106.3**	104.60	**104.6**	105.90	**105.9**	103.07	**103.1**		

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10224a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck3CRA\MRL 2/24/2010 1:40 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	0.2	0.24	**117.8**								

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: i80225a.csv **Acceptable Range:** 80% - 120%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CRIQ 2/25/2010 7:11 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	60.0	57.49	**95.8**								
Antimony	121	2.0	1.94	**97.0**								
Arsenic	75	5.0	5.17	**103.4**								
Barium	137	5.0	4.75	**94.9**								
Beryllium	9	1.0	1.02	**102.2**								
Cadmium	111	2.0	2.08	**104.2**								
Calcium	43	2000.0	1961.00	**98.1**								
Chromium	52	2.0	1.94	**96.8**								
Cobalt	59	1.0	1.04	**104.1**								
Copper	65	4.0	4.70	**117.4**								
Iron	56	150.0	176.33	**117.6**								
Lead	208	1.0	0.96	**96.3**								
Magnesium	25	1000.0	1033.43	**103.3**								
Manganese	55	5.0	5.59	**111.8**								
Nickel	60	5.0	5.35	**106.9**								
Potassium	39	1000.0	925.67	**92.6**								
Selenium	78	5.0	5.03	**100.6**								
Silver	107	1.0	1.06	**105.7**								
Sodium	23	1000.0	984.33	**98.4**								
Thallium	205	2.0	2.06	**103.2**								
Vanadium	51	5.0	5.10	**101.9**								
Zinc	66	40.0	40.58	**101.4**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10224a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck4ICB 2/24/2010 1:39 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	0.2	U								

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: i80225a.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 2/25/2010 7:01 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U								
Antimony	121	5	1.2	U								
Arsenic	75	5	1	U								
Barium	137	10	2.6	U								
Beryllium	9	1	0.07	U								
Cadmium	111	2	0.062	U								
Calcium	43	2000	800	U								
Chromium	52	5	3.2	U								
Cobalt	59	5	0.09	U								
Copper	65	5	2.2	U								
Iron	56	500	218	U								
Lead	208	3	1.4	U								
Magnesium	25	1000	178	U								
Manganese	55	10	3.2	U								
Nickel	60	10	1.7	U								
Potassium	39	1000	76	U								
Selenium	78	5	0.42	U								
Silver	107	5	0.052	U								
Sodium	23	1000	280	U								
Thallium	205	2	1.1	U								
Vanadium	51	10	0.86	U								
Zinc	66	40	20	U								

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10224a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck1CCB 2/24/2010 1:42 PM Found	Q	Ck1CCB 2/24/2010 2:18 PM Found	Q	Ck1CCB 2/24/2010 2:33 PM Found	Q	Ck1CCB 2/24/2010 2:47 PM Found	Q	Ck1CCB 2/24/2010 3:26 PM Found	Q
Mercury	253.7	0.6	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10224a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck1CCB 2/24/2010 3:40 PM Found	Q	Ck1CCB 2/24/2010 3:54 PM Found	Q	Ck1CCB 2/24/2010 4:09 PM Found	Q	Ck1CCB 2/24/2010 4:23 PM Found	Q	Found	Q
Mercury	253.7	0.6	0.2	U	0.2	U	0.2	U	0.2	U		

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: i80225a.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 2/25/2010 7:32 AM Found	Q	CCB 1 2/25/2010 8:30 AM Found	Q	CCB 2/25/2010 8:44 AM Found	Q	CCB 2/25/2010 9:58 AM Found	Q	CCB 2 2/25/2010 11:20 AM Found	Q
Aluminum	27	100	50	U	50	U	50	U	50	U	50	U
Antimony	121	5	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
Arsenic	75	5	1	U	1	U	1	U	1	U	1	U
Barium	137	10	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
Beryllium	9	1	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
Cadmium	111	2	0.062	U	**0.074**	**B**	0.062	U	0.062	U	0.062	U
Calcium	43	2000	800	U	800	U	800	U	800	U	800	U
Chromium	52	5	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
Cobalt	59	5	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
Copper	65	5	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
Iron	56	500	218	U	218	U	218	U	218	U	218	U
Lead	208	3	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Magnesium	25	1000	178	U	178	U	178	U	178	U	178	U
Manganese	55	10	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
Nickel	60	10	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Potassium	39	1000	76	U	76	U	76	U	76	U	76	U
Selenium	78	5	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
Silver	107	5	0.052	U	**0.059**	**B**	0.052	U	0.052	U	**0.063**	**B**
Sodium	23	1000	280	U	280	U	280	U	280	U	280	U
Thallium	205	2	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Vanadium	51	10	0.86	U	0.86	U	0.86	U	0.86	U	0.86	U
Zinc	66	40	20	U	20	U	20	U	20	U	20	U

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: i80225a.csv

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB 2/25/2010 11:40 AM Found	Q	CCB 2/25/2010 1:02 PM Found	Q	CCB 2/25/2010 1:22 PM Found	Q	CCB 3 2/25/2010 2:37 PM Found	Q	Found	Q
Aluminum	27	100	50	U	50	U	50	U	50	U		
Antimony	121	5	1.2	U	1.2	U	1.2	U	1.2	U		
Arsenic	75	5	1	U	1	U	1	U	1	U		
Barium	137	10	2.6	U	2.6	U	2.6	U	2.6	U		
Beryllium	9	1	0.07	U	0.07	U	0.07	U	0.07	U		
Cadmium	111	2	**0.11**	**B**	0.062	U	**0.075**	**B**	**0.11**	**B**		
Calcium	43	2000	800	U	800	U	800	U	800	U		
Chromium	52	5	3.2	U	3.2	U	3.2	U	3.2	U		
Cobalt	59	5	**0.14**	**B**	0.09	U	0.09	U	**0.1**	**B**		
Copper	65	5	2.2	U	2.2	U	2.2	U	2.2	U		
Iron	56	500	218	U	218	U	218	U	218	U		
Lead	208	3	1.4	U	1.4	U	1.4	U	1.4	U		
Magnesium	25	1000	178	U	178	U	178	U	178	U		
Manganese	55	10	3.2	U	3.2	U	3.2	U	3.2	U		
Nickel	60	10	1.7	U	1.7	U	1.7	U	1.7	U		
Potassium	39	1000	76	U	76	U	76	U	76	U		
Selenium	78	5	0.42	U	0.42	U	0.42	U	0.42	U		
Silver	107	5	**0.12**	**B**	0.052	U	**0.074**	**B**	**0.1**	**B**		
Sodium	23	1000	280	U	280	U	280	U	280	U		
Thallium	205	2	1.1	U	1.1	U	1.1	U	1.1	U		
Vanadium	51	10	0.86	U	0.86	U	0.86	U	0.86	U		
Zinc	66	40	20	U	20	U	20	U	20	U		

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPMS **Units:** ug/L

Chart Number: i80225a.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 2/25/2010 7:15 AM Found	Found	Found	Found	Found
Aluminum	27		50000	51200				
Antimony	121	5		0.120				
Arsenic	75	5		0.180				
Barium	137	10		0.680				
Beryllium	9	1		0.014				
Cadmium	111	2		-0.037				
Calcium	43		50000	51700				
Chromium	52	5		0.470				
Cobalt	59	5		0.052				
Copper	65	5		0.240				
Iron	56		50000	51100				
Lead	208	3		0.085				
Magnesium	25		50000	52900				
Manganese	55	10		1				
Nickel	60	10		0.390				
Potassium	39	1000	50000	50800				
Selenium	78	5		0.043				
Silver	107	5		0.033				
Sodium	23	1000	50000	51700				
Thallium	205	2		0.100				
Vanadium	51	10		-0.200				
Zinc	66	40		-1.700				

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPMS **Units:** ug/L

Chart Number: i80225a.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICSAB 2/25/2010 7:20 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	50000	51076.7	**102.2**								
Antimony	121	100	100.7	**100.7**								
Arsenic	75	100	98.5	**98.5**								
Barium	137	100	101.1	**101.1**								
Beryllium	9	100	98.6	**98.6**								
Cadmium	111	100	103.8	**103.8**								
Calcium	43	50000	52326.7	**104.7**								
Chromium	52	100	105.2	**105.2**								
Cobalt	59	100	98.9	**98.9**								
Copper	65	100	99.4	**99.4**								
Iron	56	50000	51343.3	**102.7**								
Lead	208	100	100.9	**100.9**								
Magnesium	25	50000	52510.0	**105.0**								
Manganese	55	100	110.3	**110.3**								
Nickel	60	100	104.2	**104.2**								
Potassium	39	50000	49006.7	**98.0**								
Selenium	78	100	100.9	**100.9**								
Silver	107	100	101.9	**101.9**								
Sodium	23	50000	52433.3	**104.9**								
Thallium	205	100	108.2	**108.2**								
Vanadium	51	100	100.3	**100.3**								
Zinc	66	100	101.5	**101.5**								

N Spike recovery failed
NC Percent recovery was not calculated
U Result is less than the IDL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Units: mg/kg

Element	Reporting Limit	Raw Method Detection Limit
Aluminum	10	2.49
Antimony	0.5	0.0620
Arsenic	0.5	0.0522
Barium	1	0.13
Beryllium	0.1	0.0035
Cadmium	0.2	0.0031
Calcium	200	40.05
Chromium	0.5	0.16
Cobalt	0.5	0.0045
Copper	0.5	0.11
Iron	50	10.91
Lead	0.3	0.0705
Magnesium	100	8.90
Manganese	1	0.16
Mercury	0.1	0.014
Nickel	1	0.0864
Potassium	100	3.76
Selenium	0.5	0.0207
Silver	0.5	0.0026
Sodium	100	14.01
Thallium	0.2	0.0562
Vanadium	1	0.0432
Zinc	4	1.00

TestAmerica North Canton

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPMS **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	27.00	500000	09/30/09
Antimony	121.00	1000	09/30/09
Arsenic	75.00	10000	09/29/09
Barium	137.00	10000	09/29/09
Beryllium	9.00	10000	09/29/09
Cadmium	111.00	10000	09/29/09
Calcium	43.00	500000	09/30/09
Chromium	52.00	10000	09/29/09
Cobalt	59.00	10000	09/29/09
Copper	65.00	10000	09/29/09
Iron	56.00	500000	09/30/09
Lead	208.00	10000	09/29/09
Magnesium	25.00	350000	09/30/09
Manganese	55.00	10000	09/29/09
Nickel	60.00	10000	09/29/09
Potassium	39.00	350000	09/30/09
Selenium	78.00	10000	09/29/09
Silver	107.00	10000	09/29/09
Sodium	23.00	500000	09/30/09
Thallium	205.00	10000	09/29/09
Vanadium	51.00	10000	09/29/09
Zinc	66.00	10000	09/29/09

Batch Number: **0053030**

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: Lisa McGall (e-Signature)

Prep Date: 02/24/10
Due Date: 03/10/10

Lot	Work Order			ICP Weight	ICPMS Weight	Hg Weight
A0B220000 Solid	LVXLR	B	Due Date: SDG:		1.00 g	0.60 g
A0B220000 Solid	LVXLR	C	Due Date: SDG:		1.00 g	0.60 g
A0B180429 Solid	LVTQQ Total		Due Date: 03/10/10 SDG:		1.00 g	0.60 g
A0B180429 Solid	LVTQ1 Total		Due Date: 03/10/10 SDG:		1.00 g	0.60 g
A0B180429 Solid	LVTQ2 Total		Due Date: 03/10/10 SDG:		1.00 g	0.60 g
A0B180429 Solid	LVTQ3 Total		Due Date: 03/10/10 SDG:		1.00 g	0.60 g
A0B180429 Solid	LVTRC Total		Due Date: 03/10/10 SDG:		1.00 g	
A0B180429 Solid	LVTRM Total		Due Date: 03/10/10 SDG:		1.00 g	
A0B180429 Solid	LVTRQ Total		Due Date: 03/10/10 SDG:		1.00 g	
A0B180429 Solid	LVTTQ Total		Due Date: 03/10/10 SDG:		1.00 g	
A0B180429 Solid	LVTTW Total		Due Date: 03/10/10 SDG:		1.00 g	
A0B180429 Solid	LVTTX Total		Due Date: 03/10/10 SDG:		1.00 g	
A0B180429 Solid	LVTT0 Total		Due Date: 03/10/10 SDG:		1.00 g	0.60 g
A0B180429 Solid	LVTT9 Total		Due Date: 03/10/10 SDG:		1.00 g	0.60 g
A0B180429 Solid	LVTVA Total		Due Date: 03/10/10 SDG:		1.00 g	0.60 g
A0B190524 Solid	LVWW5 Total		Due Date: 03/12/10 SDG:		1.00 g	0.60 g
A0B190524 Solid	LVWW5 Total	S	Due Date: 03/12/10 SDG:		1.00 g	0.60 g
A0B190524 Solid	LVWW5 Total	D	Due Date: 03/12/10 SDG:		1.00 g	0.60 g
A0B190524 Solid	LVWW9 Total		Due Date: 03/12/10 SDG:		1.00 g	0.60 g
A0B190524 Solid	LVWXC Total		Due Date: 03/12/10 SDG:		1.00 g	0.60 g
A0B190524 Solid	LVWXF Total		Due Date: 03/12/10 SDG:		1.00 g	0.60 g
A0B190524 Solid	LVWX0 Total		Due Date: 03/12/10 SDG:		1.00 g	0.60 g

Batch Number: **0053030**

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: Lisa McGall (e-Signature)

Prep Date: 02/24/10
Due Date: 03/10/10

Lot	Work Order		ICP Weight	ICPMS Weight	Hg Weight
A0B190524 Solid	LVWX1 Total	Due Date: 03/12/10 SDG:		1.00 g	0.60 g
A0B190524 Solid	LVWX8 Total	Due Date: 03/12/10 SDG:		1.00 g	0.60 g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH	X
MS/MSD AND PDS ON BATCH	X
CORRECT SPIKES ADDED	X
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG	X

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

Unless otherwise noted, final volumes are as follows: Soils - 100 mL. Waters - ICP and ICPMS - 50 mL, Hg - 100 mL.

Low Level Hg: final volumes are 40 mL.

ICPMS ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN NA NI PB SB SE TL VX ZN

Matrix Spike Information:

LVWW5	Hg	ICPMS-1	ICPMS-2

Check Sample Information:

LVXLR	Hg	ICPMS-1	ICPMS-2

Prep Method(s): SW846 3050B, SW846 7471A

```
:       Instrument Upload                                    Run Log - Page  1 :
:       Started Thu Feb 25 05:14:41 2010 by TOTHR                              :
:       Data File: UPL$CAN_DATA_ROOT:<LHG>HG10224A.PRN;1                       :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	24-FEB-2010	13:31:02			H1
2	STD2REP1	1	24-FEB-2010	13:32:13			H1
3	STD3REP1	1	24-FEB-2010	13:33:19			H1
4	STD4REP1	1	24-FEB-2010	13:34:24			H1
5	STD5REP1	1	24-FEB-2010	13:35:50			H1
6	STD6REP1	1	24-FEB-2010	13:36:58			H1
7	CK5ICV	1	24-FEB-2010	13:38:10			H1
8	CK4ICB	1	24-FEB-2010	13:39:21			H1
9	CK3CRA\MRL	1	24-FEB-2010	13:40:30			H1
10	CK2CCV	1	24-FEB-2010	13:41:35			H1
11	CK1CCB	1	24-FEB-2010	13:42:40			H1
12	LVXPLB	1	24-FEB-2010	13:43:47	0053100	A0B220000	H1
13	LVXPLC	1	24-FEB-2010	13:45:14	0053100	A0B220000	H1
14	LVXD3	1	24-FEB-2010	13:46:28	0053100	A0B200436	H1
15	LVXD3S	1	24-FEB-2010	13:47:32	0053100	A0B200436	H1
16	LVXD3D	1	24-FEB-2010	13:48:41	0053100	A0B200436	H1
17	LVXD6	1	24-FEB-2010	13:50:01	0053100	A0B200436	H1
18	LVXEE	1	24-FEB-2010	13:51:31	0053100	A0B200436	H1
19	LVXD9	1	24-FEB-2010	13:52:38	0053100	A0B200436	H1
20	LVXD8	1	24-FEB-2010	13:53:54	0053100	A0B200436	H1
21	LVXD4	1	24-FEB-2010	13:55:04	0053100	A0B200436	H1
22	CK2CCV	1	24-FEB-2010	14:17:27			H1
23	CK1CCB	1	24-FEB-2010	14:18:34			H1
24	LVXED	1	24-FEB-2010	14:19:39	0053100	A0B200436	H1
25	LVXD5	1	24-FEB-2010	14:20:48	0053100	A0B200436	H1
26	LVXEA	1	24-FEB-2010	14:22:32	0053100	A0B200436	H1
27	LVXEC	1	24-FEB-2010	14:23:41	0053100	A0B200436	H1
28	LVXD7	1	24-FEB-2010	14:24:49	0053100	A0B200436	H1
29	LVXEH	1	24-FEB-2010	14:26:04	0053100	A0B200436	H1
30	LVXEF	1	24-FEB-2010	14:27:20	0053100	A0B200436	H1
31	LVXEG	1	24-FEB-2010	14:29:17	0053100	A0B200436	H1
32	LV1L3B	1	24-FEB-2010	14:30:25	0055014	A0B240000	H1
33	LV1L3C	1	24-FEB-2010	14:31:42	0055014	A0B240000	H1
34	CK2CCV	1	24-FEB-2010	14:32:50			H1
35	CK1CCB	1	24-FEB-2010	14:33:56			H1
36	LV08T	1	24-FEB-2010	14:35:27	0055014	A0B230495	H1
37	LV08TS	1	24-FEB-2010	14:36:35	0055014	A0B230495	H1
38	LV08TD	1	24-FEB-2010	14:37:41	0055014	A0B230495	H1
39	LV080	1	24-FEB-2010	14:38:48	0055014	A0B230495	H1
40	LV05Q	1	24-FEB-2010	14:40:08	0055014	A0B230476	H1
41	LV08X	1	24-FEB-2010	14:41:14	0055014	A0B230495	H1
42	LV08V	1	24-FEB-2010	14:42:21	0055014	A0B230495	H1
43	LVXL1B	1	24-FEB-2010	14:43:26	0053033	A0B220000	H1
44	LVXL1C	1	24-FEB-2010	14:44:32	0053033	A0B220000	H1

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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	LVWX6	1	24-FEB-2010	14:45:38	0053033	A0B190529	H1
46	CK2CCV	1	24-FEB-2010	14:46:46			H1
47	CK1CCB	1	24-FEB-2010	14:47:55			H1
48	LVWX6S	1.4	24-FEB-2010	14:49:10	0053033	A0B190529	H1
49	LVWX6D	1.4	24-FEB-2010	14:50:17	0053033	A0B190529	H1
50	LVW0F	1	24-FEB-2010	14:51:35	0053033	A0B190529	H1
51	LVW0E	1	24-FEB-2010	15:04:59	0053033	A0B190529	H1
52	LVW0J	1	24-FEB-2010	15:06:07	0053033	A0B190529	H1
53	LVW41	1	24-FEB-2010	15:07:13	0053033	A0B200404	H1
54	LVW0A	1	24-FEB-2010	15:08:24	0053033	A0B190529	H1
55	LVW0D	1	24-FEB-2010	15:21:48	0053033	A0B190529	H1
56	LVW0H	1	24-FEB-2010	15:23:06	0053033	A0B190529	H1
57	LVW4V	1	24-FEB-2010	15:24:14	0053033	A0B200404	H1
58	CK2CCV	1	24-FEB-2010	15:25:22			H1
59	CK1CCB	1	24-FEB-2010	15:26:26			H1
60	LVW0G	1	24-FEB-2010	15:27:33	0053033	A0B190529	H1
61	LVXLMB	1	24-FEB-2010	15:28:38	0053028	A0B220000	H1
62	LVXLMC	1	24-FEB-2010	15:29:48	0053028	A0B220000	H1
63	LVQVF	1	24-FEB-2010	15:30:56	0053028	A0B160474	H1
64	LVQVFS	1	24-FEB-2010	15:32:12	0053028	A0B160474	H1
65	LVQVFD	1	24-FEB-2010	15:33:43	0053028	A0B160474	H1
66	LVQVH	1	24-FEB-2010	15:35:02	0053028	A0B160474	H1
67	LVVFK	1	24-FEB-2010	15:36:08	0053028	A0B180524	H1
68	LVQVK	1	24-FEB-2010	15:37:18	0053028	A0B160474	H1
69	LVVF1	1	24-FEB-2010	15:38:24	0053028	A0B180524	H1
70	CK2CCV	1	24-FEB-2010	15:39:31			H1
71	CK1CCB	1	24-FEB-2010	15:40:50			H1
72	LVQVJ	1	24-FEB-2010	15:41:56	0053028	A0B160474	H1
73	LVVF6	1	24-FEB-2010	15:43:02	0053028	A0B180524	H1
74	LVQVL	1	24-FEB-2010	15:44:12	0053028	A0B160474	H1
75	LVXLRB	1	24-FEB-2010	15:45:19	0053030	A0B220000	H1
76	LVXLRC	1	24-FEB-2010	15:46:26	0053030	A0B220000	H1
77	LVWW5	1	24-FEB-2010	15:47:35	0053030	A0B190524	H1
78	LVWW5L	1	24-FEB-2010	15:48:40			H1
79	LVWW5S	1	24-FEB-2010	15:49:51	0053030	A0B190524	H1
80	LVWW5D	1	24-FEB-2010	15:50:59	0053030	A0B190524	H1
81	LVTVA	1	24-FEB-2010	15:52:05	0053030	A0B180429	H1
82	CK2CCV	1	24-FEB-2010	15:53:14			H1
83	CK1CCB	1	24-FEB-2010	15:54:33			H1
84	LVTT9	1	24-FEB-2010	15:55:59	0053030	A0B180429	H1
85	LVTQ1	1	24-FEB-2010	15:57:08	0053030	A0B180429	H1
86	LVTQQ	1	24-FEB-2010	15:58:17	0053030	A0B180429	H1
87	LVWX0	1	24-FEB-2010	15:59:58	0053030	A0B190524	H1
88	LVWXF	1	24-FEB-2010	16:01:04	0053030	A0B190524	H1

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	LVWXC	1	24-FEB-2010	16:02:11	0053030	A0B190524	H1
90	LVWX8	1	24-FEB-2010	16:03:27	0053030	A0B190524	H1
91	LVTQ3	1	24-FEB-2010	16:04:35	0053030	A0B180429	H1
92	LVWX1	1	24-FEB-2010	16:05:43	0053030	A0B190524	H1
93	LVWW9	1	24-FEB-2010	16:06:50	0053030	A0B190524	H1
94	CK2CCV	1	24-FEB-2010	16:07:59			H1
95	CK1CCB	1	24-FEB-2010	16:09:04			H1
96	LVTQ2	1	24-FEB-2010	16:10:09	0053030	A0B180429	H1
97	LVTT0	1	24-FEB-2010	16:11:15	0053030	A0B180429	H1
98	LV1L1B	1	24-FEB-2010	16:12:35	0055013	A0B240000	H1
99	LV1L1C	1	24-FEB-2010	16:13:53	0055013	A0B240000	H1
100	LV030	1	24-FEB-2010	16:15:03	0055013	A0B230467	H1
101	LV030L	1	24-FEB-2010	16:16:10			H1
102	LV030S	1	24-FEB-2010	16:17:16	0055013	A0B230467	H1
103	LV030D	1	24-FEB-2010	16:18:23	0055013	A0B230467	H1
104	LV031	1	24-FEB-2010	16:19:30	0055013	A0B230467	H1
105	LV035	1	24-FEB-2010	16:20:46	0055013	A0B230467	H1
106	CK2CCV	1	24-FEB-2010	16:21:56			H1
107	CK1CCB	1	24-FEB-2010	16:23:05			H1
108	LV034	1	24-FEB-2010	16:24:13	0055013	A0B230467	H1
109	LV036	1	24-FEB-2010	16:25:22	0055013	A0B230467	H1
110	LV03V	1	24-FEB-2010	16:26:43	0055013	A0B230467	H1
111	CK2CCV	1	24-FEB-2010	16:27:49			H1
112	CK1CCB	1	24-FEB-2010	16:28:58			H1

End of Report

: Instrument Upload Run Log - Page 1 :
: Started Fri Feb 26 08:19:09 2010 by COUNTSK :
: Data File: UPL$CAN_DATA_ROOT:<REP>I80225A.CSV;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument	
1	STD1	1	25-FEB-2010	06:35:05			I8	
2	STD2	1	25-FEB-2010	06:39:35			I8	
3	STD3	1	25-FEB-2010	06:45:05			I8	
4	STD4	1	25-FEB-2010	06:51:36			I8	
5	ICV	1	25-FEB-2010	06:56:10			I8	
6	ICB	1	25-FEB-2010	07:01:55			I8	
7	CRI	1	25-FEB-2010	07:06:33			I8	
8	CRIQ	1	25-FEB-2010	07:11:07			I8	Qom CRI
9	ICSA	1	25-FEB-2010	07:15:43			I8	
10	ICSAB	1	25-FEB-2010	07:20:18			I8	
11	CCV	1	25-FEB-2010	07:26:04			I8	
12	CCB	1	25-FEB-2010	07:32:06			I8	
13	LVXLMC	1	25-FEB-2010	07:36:38	0053028	A0B220000	I8	
14	LVXLRB	1	25-FEB-2010	07:42:06	0053030	A0B220000	I8	
15	LVXLRC	1	25-FEB-2010	07:46:44	0053030	A0B220000	I8	
16	LVTQQ	1	25-FEB-2010	07:51:47	0053030	A0B180429	I8	
17	LVTQ1	1	25-FEB-2010	07:56:26	0053030	A0B180429	I8	
18	LVTQ2	1	25-FEB-2010	08:01:08	0053030	A0B180429	I8	
19	LVTQ3	1	25-FEB-2010	08:05:40	0053030	A0B180429	I8	
20	LVTT0	1	25-FEB-2010	08:10:12	0053030	A0B180429	I8	
21	LVTT9	1	25-FEB-2010	08:14:49	0053030	A0B180429	I8	
22	LVTVA	1	25-FEB-2010	08:19:22	0053030	A0B180429	I8	
23	CCV	1	25-FEB-2010	08:24:05			I8	
24	CCB	1	25-FEB-2010	08:30:51			I8	
25	CCV	1	25-FEB-2010	08:37:36			I8	
26	CCB	1	25-FEB-2010	08:44:24			I8	
27	LVXLRB	1	25-FEB-2010	08:51:10	0053030	A0B220000	I8	
28	LVXLRC	1	25-FEB-2010	08:57:58	0053030	A0B220000	I8	
29	LVTQQ	10	25-FEB-2010	09:04:44	0053030	A0B180429	I8	
30	LVTQ1	10	25-FEB-2010	09:11:30	0053030	A0B180429	I8	
31	LVTQ2	10	25-FEB-2010	09:18:17	0053030	A0B180429	I8	
32	LVTQ3	10	25-FEB-2010	09:25:05	0053030	A0B180429	I8	
33	LVTT0	10	25-FEB-2010	09:31:51	0053030	A0B180429	I8	
34	LVTT9	10	25-FEB-2010	09:38:38	0053030	A0B180429	I8	
35	LVTVA	10	25-FEB-2010	09:45:25	0053030	A0B180429	I8	
36	CCV	1	25-FEB-2010	09:52:12			I8	
37	CCB	1	25-FEB-2010	09:58:57			I8	
38	LVWW5	1	25-FEB-2010	10:05:45	0053030	A0B190524	I8	
39	LVWW5L	1	25-FEB-2010	10:12:33			I8	
40	LVWW5A	1	25-FEB-2010	10:19:21	0053030	A0B190524	I8	tal-CoBaALVMnNiPbFe
41	LVWW5S	5	25-FEB-2010	10:26:07	0053030	A0B190524	I8	
42	LVWW5D	5	25-FEB-2010	10:32:54	0053030	A0B190524	I8	
43	LVWW9	1	25-FEB-2010	10:39:41	0053030	A0B190524	I8	
44	LVWXC	1	25-FEB-2010	10:46:28	0053030	A0B190524	I8	

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument	
45	LVWXF	1	25-FEB-2010	10:53:16	0053030	A0B190524	I8	
46	LVWX0	1	25-FEB-2010	11:00:04	0053030	A0B190524	I8	
47	LVWX1	1	25-FEB-2010	11:06:54	0053030	A0B190524	I8	
48	CCV	1	25-FEB-2010	11:13:41			I8	
49	CCB	1	25-FEB-2010	11:20:27			I8	
50	LVWX8	1	25-FEB-2010	11:27:14	0053030	A0B190524	I8	
51	CCV	1	25-FEB-2010	11:34:05			I8	
52	CCB	1	25-FEB-2010	11:40:53			I8	
53	LVWW5	1	25-FEB-2010	11:47:44	0053030	A0B190524	I8	
54	LVWW5L	1	25-FEB-2010	11:54:34			I8	
55	LVWW5A	1	25-FEB-2010	12:01:23	0053030	A0B190524	I8	not needed
56	LVWW5S	5	25-FEB-2010	12:08:08	0053030	A0B190524	I8	
57	LVWW5D	5	25-FEB-2010	12:14:56	0053030	A0B190524	I8	
58	LVWW9	10	25-FEB-2010	12:21:44	0053030	A0B190524	I8	
59	LVWXC	10	25-FEB-2010	12:28:31	0053030	A0B190524	I8	
60	LVWXF	10	25-FEB-2010	12:35:19	0053030	A0B190524	I8	
61	LVWX0	10	25-FEB-2010	12:42:06	0053030	A0B190524	I8	
62	LVWX1	10	25-FEB-2010	12:48:54	0053030	A0B190524	I8	
63	CCV	1	25-FEB-2010	12:55:41			I8	
64	CCB	1	25-FEB-2010	13:02:28			I8	
65	LVWX8	10	25-FEB-2010	13:09:15	0053030	A0B190524	I8	
66	CCV	1	25-FEB-2010	13:16:02			I8	
67	CCB	1	25-FEB-2010	13:22:49			I8	
68	LVTRC	1	25-FEB-2010	13:29:36	0053030	A0B180429	I8	
69	LVTRM	1	25-FEB-2010	13:36:25	0053030	A0B180429	I8	
70	LVTRQ	1	25-FEB-2010	13:43:14	0053030	A0B180429	I8	
71	LVTTQ	1	25-FEB-2010	13:50:01	0053030	A0B180429	I8	
72	LVTTW	1	25-FEB-2010	13:56:48	0053030	A0B180429	I8	
73	LVTTX	1	25-FEB-2010	14:03:34	0053030	A0B180429	I8	
74	LV1L1B	1	25-FEB-2010	14:10:20	0055013	A0B240000	I8	
75	LV1L1C	1	25-FEB-2010	14:17:08	0055013	A0B240000	I8	
76	LV03V	1	25-FEB-2010	14:23:55	0055013	A0B230467	I8	
77	CCV	1	25-FEB-2010	14:30:42			I8	
78	CCB	1	25-FEB-2010	14:37:29			I8	
79	LV030	1	25-FEB-2010	14:44:17	0055013	A0B230467	I8	
80	LV030L	1	25-FEB-2010	14:51:05			I8	
81	LV030A	1	25-FEB-2010	14:57:54	0055013	A0B230467	I8	tal-Mg K Co Ba Al V Mn Ni Pb Cr Fe
82	LV030S	5	25-FEB-2010	15:04:43	0055013	A0B230467	I8	
83	LV030D	5	25-FEB-2010	15:11:32	0055013	A0B230467	I8	
84	LV031	1	25-FEB-2010	15:18:22	0055013	A0B230467	I8	
85	LV034	1	25-FEB-2010	15:25:11	0055013	A0B230467	I8	
86	LV035	1	25-FEB-2010	15:31:58	0055013	A0B230467	I8	
87	LV036	1	25-FEB-2010	15:38:45	0055013	A0B230467	I8	
88	LV038	1	25-FEB-2010	15:45:32	0055013	A0B230467	I8	

(continued)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

INSTRUMENT PRINTOUTS

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information

Run Date: 2-24-10 Analyst: RICT Instrument: H1

Prep Batches Run: See Run Log

Circle Methods used: 7470A / 245.1 : CORP-MT-0005 Rev 1 7471: CORP-MT-0007 Rev 1

Review Items A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other			✓	
1. Are all nonconformances documented appropriately?	✓			✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I Analyst: Roger K. Todd Date/Time: 2-25-10

Level I Analyst: _____ Date/Time: _____

Comments: _____

2nd Level Reviewer: Natalie J. Muselman Date/Time: 2-25-10

2nd Level Reviewer: _____ Date/Time: _____

Comments: _____

Curve Prepared Date: 2-24-10 Time: 9:00

ICV CPI09K153 $SnCl_2$ OMR99

CAL/CCV HPS0928106 NACL $NH_2OH{\cdot}HCL$ OMR122

Revised 01/03/2008

```
*** Standard: 1 Rep: 1              Seq:  0       13:31:02 24 Feb 2010 HG

Hg    .0000   ppb      2067

*** Standard: 2 Rep: 1              Seq:  1       13:32:13 24 Feb 2010 HG

Hg    .2000   ppb      8499

*** Standard: 3 Rep: 1              Seq:  2       13:33:19 24 Feb 2010 HG

Hg    .5000   ppb      20384

*** Standard: 4 Rep: 1              Seq:  3       13:34:24 24 Feb 2010 HG

Hg    1.000   ppb      39286
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 5 Rep: 1				Seq: 4	13:35:50 24 Feb 2010 HG			
Hg	5.000	ppb	177544					
*** Standard: 6 Rep: 1				Seq: 5	13:36:58 24 Feb 2010 HG			
Hg	10.00	ppb	377827					

RunProt: HGPPB | Err: Analyzer needs maintenance

RunFold: HG102240 Seq: 6 Batch:

Prnt: R/T On | Pump: On

Rev: 4.2 | Xmit: Off Gas: 1.00 LPM

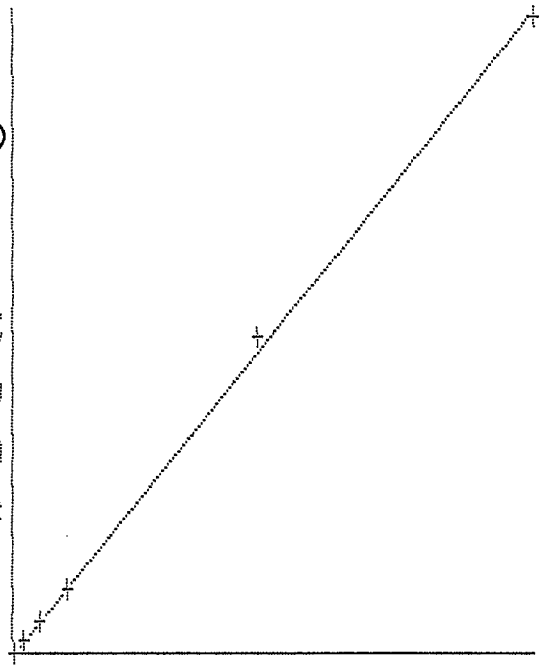
State: Idle | Macro HG | 59: F3 Print | User: SMI | A/S: On

CALIBRATION: Line | proto: HGPPB

	Hg Conc.	Calc.	Dev.	Accepted ->linear	
S1	.0000	.0453	.0453	Quadratic	
S2	.2000	.2176	.0176	Wtdlinear	
S3	.5000	.5368	.0368		C
S4	1.000	1.042	.0424	Accept	o
S5	5.000	4.746	-.2536		n
S6	10.00	10.11	.1121		c

A .00000000 r .999484

B 2.67906e-5 C -1.00643e-2



	Mean			
S1	2067	0	SD	2067
S2	8499	0	%RSD	8499
S3	20384	0	%RSD	20384
S4	39286	0	%RSD	39286
S5	177544	0	%RSD	177544
S6	377827	0	%RSD	377827

New cal coefficients stored

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 5 Ck5ICV Seq: 6 13:38:10 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.55	2.389	2.500	ppb	.0000 %

*** Check Standard: 4 Ck4ICB Seq: 7 13:39:21 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		391800	.0392	.0000	ppb	.0000 %

*** Check Standard: 3 Ck3CRA\MRL Seq: 8 13:40:30 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		117.7	.2355	.2000	ppb	.0000 %

*** Check Standard: 2 Ck2CCV Seq: 9 13:41:35 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.7	5.137	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 10 13:42:40 24 Feb 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0079	.2000	ppb	.0000 %

*** Sample ID: LVXPLB Seq: 11 13:43:47 24 Feb 2010 HG

0053100

Hg	.0026	ppb	.0000 %	.0026	

*** Sample ID: LVXPLC Seq: 12 13:45:14 24 Feb 2010 HG

SOLID

Hg	5.001	ppb	.0000 %	5.001	

*** Sample ID: LVXD3 Seq: 13 13:46:28 24 Feb 2010 HG

SOLID

Hg	.0471	ppb	.0000 %	.0471	

*** Sample ID: LVXD3S Seq: 14 13:47:32 24 Feb 2010 HG

SOLID

Hg	1.066	ppb	.0000 %	1.066	

*** Sample ID: LVXD3D Seq: 15 13:48:41 24 Feb 2010 HG

SOLID

Hg	1.075	ppb	.0000 %	1.075	

*** Sample ID: LVXD6 Seq: 16 13:50:01 24 Feb 2010 HG

SOLID

Hg	.0951	ppb	.0000 %	.0951	

*** Sample ID: LVXEE Seq: 17 13:51:31 24 Feb 2010 HG

SOLID

Hg	.0868	ppb	.0000 %	.0868	

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LVXD9 Seq: 18 13:52:38 24 Feb 2010 HG

SOLID

Hg .0539 ppb .0000 % .0539

*** Sample ID: LVXD8 Seq: 19 13:53:54 24 Feb 2010 HG

SOLID

Hg .1174 ppb .0000 % .1174

*** Sample ID: LVXD4 Seq: 20 13:55:04 24 Feb 2010 HG

SOLID

Hg .0828 ppb .0000 % .0828

*** Check Standard: 2 Ck2CCV Seq: 21 14:17:27 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.6	5.132	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 22 14:18:34 24 Feb 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0170	.2000	ppb	.0000 %

*** Sample ID: LVXED Seq: 23 14:19:39 24 Feb 2010 HG

SOLID

Hg .0861 ppb .0000 % .0861

*** Sample ID: LVXD5 Seq: 24 14:20:48 24 Feb 2010 HG

SOLID

Hg .4189 ppb .0000 % .4189

*** Sample ID: LVXEA Seq: 25 14:22:32 24 Feb 2010 HG

SOLID

Hg .0922 ppb .0000 % .0922

*** Sample ID: LVXEC Seq: 26 14:23:41 24 Feb 2010 HG

SOLID

Hg .0223 ppb .0000 % .0223

*** Sample ID: LVXD7 Seq: 27 14:24:49 24 Feb 2010 HG

SOLID

Hg .0764 ppb .0000 % .0764

*** Sample ID: LVXEH Seq: 28 14:26:04 24 Feb 2010 HG

SOLID

Hg .0936 ppb .0000 % .0936

*** Sample ID: LVXEF Seq: 29 14:27:20 24 Feb 2010 HG

SOLID

Hg .0693 ppb .0000 % .0693

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LVXEG Seq: 30 14:29:17 24 Feb 2010 HG

SOLID

Hg .0862 ppb .0000 % .0862

*** Sample ID: LV1L3B Seq: 31 14:30:25 24 Feb 2010 HG

0055014

Hg .0492 ppb .0000 % .0492

*** Sample ID: LV1L3C Seq: 32 14:31:42 24 Feb 2010 HG

SOLID

Hg 5.004 ppb .0000 % 5.004

*** Check Standard: 2 Ck2CCV Seq: 33 14:32:50 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.1	5.153	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 34 14:33:56 24 Feb 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0138	.2000	ppb	.0000 %

*** Sample ID: LV08T Seq: 35 14:35:27 24 Feb 2010 HG

SOLID

Hg .1273 ppb .0000 % .1273

*** Sample ID: LV08TS Seq: 36 14:36:35 24 Feb 2010 HG

SOLID

Hg 1.161 ppb .0000 % 1.161

*** Sample ID: LV08TD Seq: 37 14:37:41 24 Feb 2010 HG

SOLID

Hg 1.140 ppb .0000 % 1.140

*** Sample ID: LV080 Seq: 38 14:38:48 24 Feb 2010 HG

SOLID

Hg .0793 ppb .0000 % .0793

*** Sample ID: LV05Q Seq: 39 14:40:08 24 Feb 2010 HG

SOLID

Hg .0378 ppb .0000 % .0378

*** Sample ID: LV08X Seq: 40 14:41:14 24 Feb 2010 HG

SOLID

Hg .1013 ppb .0000 % .1013

*** Sample ID: LV08V Seq: 41 14:42:21 24 Feb 2010 HG

SOLID

Hg .1831 ppb .0000 % .1831

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LVXL1B Seq: 42 14:43:26 24 Feb 2010 HG
0053033
Hg .0196 ppb .0000 % .0196

*** Sample ID: LVXL1C Seq: 43 14:44:32 24 Feb 2010 HG
SOLID
Hg 4.870 ppb .0000 % 4.870

*** Sample ID: LVWX6 Seq: 44 14:45:38 24 Feb 2010 HG
SOLID
Hg 65.57 ppb .0000 % 65.57

Dilute

*** Check Standard: 2 Ck2CCV Seq: 45 14:46:46 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		89.71	4.486	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 46 14:47:55 24 Feb 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0631	.2000	ppb	.0000 %

*** Sample ID: LVWX6S/1.4 Seq: 47 14:49:10 24 Feb 2010 HG
SOLID
Hg 58.11 ppb .0000 % 58.11

Dilute

*** Sample ID: LVWX6D/1.4 Seq: 48 14:50:17 24 Feb 2010 HG
SOLID
Hg 55.51 ppb .0000 % 55.51

*** Sample ID: LVW0F Seq: 49 14:51:35 24 Feb 2010 HG
SOLID
Hg 84.96 ppb .0000 % 84.96

*** Sample ID: LVW0E Seq: 50 15:04:59 24 Feb 2010 HG
SOLID
Hg ^^^^^^0 ppb 100.0 % ^^^^^^

*** Sample ID: LVW0J Seq: 51 15:06:07 24 Feb 2010 HG
SOLID
Hg 33.32 ppb .0000 % 33.32

*** Sample ID: LVW41 Seq: 52 15:07:13 24 Feb 2010 HG
SOLID
Hg .4129 ppb .0000 % .4129

*** Sample ID: LVW0A Seq: 53 15:08:24 24 Feb 2010 HG
SOLID
Hg 96.08 ppb .0000 % 96.08

Dilute

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LVW0D Seq: 54 15:21:48 24 Feb 2010 HG

SOLID

Hg ^^^^^^0 ppb 100.0 % ^^^^^^

Dilute RQ 2-25-10 Re-analyze

*** Sample ID: LVW0H Seq: 55 15:23:06 24 Feb 2010 HG

SOLID

Hg .2315 ppb .0000 % .2315

*** Sample ID: LVW4V Seq: 56 15:24:14 24 Feb 2010 HG

SOLID

Hg 1.112 ppb .0000 % 1.112

*** Check Standard: 2 Ck2CCV Seq: 57 15:25:22 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.0	5.152	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 58 15:26:26 24 Feb 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0369	.2000	ppb	.0000 %

*** Sample ID: LVW0G Seq: 59 15:27:33 24 Feb 2010 HG

SOLID

Hg .5465 ppb .0000 % .5465

*** Sample ID: LVXLMB Seq: 60 15:28:38 24 Feb 2010 HG

0053028

Hg .0089 ppb .0000 % .0089

*** Sample ID: LVXLMC Seq: 61 15:29:48 24 Feb 2010 HG

SOLID

Hg 4.961 ppb .0000 % 4.961

*** Sample ID: LVQVF Seq: 62 15:30:56 24 Feb 2010 HG

SOLID

Hg .4890 ppb .0000 % .4890

*** Sample ID: LVQVFS Seq: 63 15:32:12 24 Feb 2010 HG

SOLID

Hg 1.287 ppb .0000 % 1.287

*** Sample ID: LVQVFD Seq: 64 15:33:43 24 Feb 2010 HG

SOLID

Hg 1.429 ppb .0000 % 1.429

*** Sample ID: LVQVH Seq: 65 15:35:02 24 Feb 2010 HG

SOLID

Hg .1567 ppb .0000 % .1567

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LVVFK Seq: 66 15:36:08 24 Feb 2010 HG

SOLID

Hg .1459 ppb .0000 % .1459

*** Sample ID: LVQVK Seq: 67 15:37:18 24 Feb 2010 HG

SOLID

Hg .1340 ppb .0000 % .1340

*** Sample ID: LVVF1 Seq: 68 15:38:24 24 Feb 2010 HG

SOLID

Hg .1675 ppb .0000 % .1675

*** Check Standard: 2 Ck2CCV Seq: 69 15:39:31 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.4	5.169	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 70 15:40:50 24 Feb 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0176	.2000	ppb	.0000 %

*** Sample ID: LVQVJ Seq: 71 15:41:56 24 Feb 2010 HG

SOLID

Hg .1695 ppb .0000 % .1695

*** Sample ID: LVVF6 Seq: 72 15:43:02 24 Feb 2010 HG

SOLID

Hg .2324 ppb .0000 % .2324

*** Sample ID: LVQVL Seq: 73 15:44:12 24 Feb 2010 HG

SOLID

Hg .1958 ppb .0000 % .1958

*** Sample ID: LVXPLB LR RLG 2-25-10 Seq: 74 15:45:19 24 Feb 2010 HG

0053030

Hg .0038 ppb .0000 % .0038

*** Sample ID: LVXPLC LR Seq: 75 15:46:26 24 Feb 2010 HG

RLG 2-25-10 SOLID

Hg 4.997 ppb .0000 % 4.997

*** Sample ID: LVWW5 Seq: 76 15:47:35 24 Feb 2010 HG

SOLID

Hg .3209 ppb .0000 % .3209

*** Sample ID: LVWW5L Seq: 77 15:48:40 24 Feb 2010 HG

SOLID

Hg .0546 ppb .0000 % .0546

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LVWW5S Seq: 78 15:49:51 24 Feb 2010 HG

SOLID

Hg	1.355	ppb	.0000 %	1.355				

*** Sample ID: LVWW5D Seq: 79 15:50:59 24 Feb 2010 HG

SOLID

Hg	1.378	ppb	.0000 %	1.378				

*** Sample ID: LVTVA Seq: 80 15:52:05 24 Feb 2010 HG

SOLID

Hg	.2867	ppb	.0000 %	.2867				

*** Check Standard: 2 Ck2CCV Seq: 81 15:53:14 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.9	5.146	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 82 15:54:33 24 Feb 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0066	.2000	ppb	.0000 %

*** Sample ID: LVTT9 Seq: 83 15:55:59 24 Feb 2010 HG

SOLID

Hg	.3618	ppb	.0000 %	.3618				

*** Sample ID: LVTQ1 Seq: 84 15:57:08 24 Feb 2010 HG

SOLID

Hg	.2562	ppb	.0000 %	.2562				

*** Sample ID: LVTQQ Seq: 85 15:58:17 24 Feb 2010 HG

SOLID

Hg	.2851	ppb	.0000 %	.2851				

*** Sample ID: LVWX0 Seq: 86 15:59:58 24 Feb 2010 HG

SOLID

Hg	.4137	ppb	.0000 %	.4137				

*** Sample ID: LVWXF Seq: 87 16:01:04 24 Feb 2010 HG

SOLID

Hg	1.625	ppb	.0000 %	1.625				

*** Sample ID: LVWXC Seq: 88 16:02:11 24 Feb 2010 HG

SOLID

Hg	.5173	ppb	.0000 %	.5173				

*** Sample ID: LVWX8 Seq: 89 16:03:27 24 Feb 2010 HG

SOLID

Hg	.1915	ppb	.0000 %	.1915				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LVTQ3 Seq: 90 16:04:35 24 Feb 2010 HG

SOLID

Hg .3236 ppb .0000 % .3236

*** Sample ID: LVWX1 Seq: 91 16:05:43 24 Feb 2010 HG

SOLID

Hg .0569 ppb .0000 % .0569

*** Sample ID: LVWW9 Seq: 92 16:06:50 24 Feb 2010 HG

SOLID

Hg .6327 ppb .0000 % .6327

*** Check Standard: 2 Ck2CCV Seq: 93 16:07:59 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.0	5.151	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 94 16:09:04 24 Feb 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0023	.2000	ppb	.0000 %

*** Sample ID: LVTQ2 Seq: 95 16:10:09 24 Feb 2010 HG

SOLID

Hg .2750 ppb .0000 % .2750

*** Sample ID: LVTT0 Seq: 96 16:11:15 24 Feb 2010 HG

SOLID

Hg .2219 ppb .0000 % .2219

*** Sample ID: LV1L1B Seq: 97 16:12:35 24 Feb 2010 HG

0055013

Hg -.0006 ppb .0000 % -.0006

*** Sample ID: LV1L1C Seq: 98 16:13:53 24 Feb 2010 HG

SOLID

Hg 4.965 ppb .0000 % 4.965

*** Sample ID: LV030 Seq: 99 16:15:03 24 Feb 2010 HG

SOLID

Hg .1322 ppb .0000 % .1322

*** Sample ID: LV030L Seq: 100 16:16:10 24 Feb 2010 HG

SOLID

Hg .0182 ppb .0000 % .0182

*** Sample ID: LV030S Seq: 101 16:17:16 24 Feb 2010 HG

SOLID

Hg 1.110 ppb .0000 % 1.110

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV030D Seq: 102 16:18:23 24 Feb 2010 HG

SOLID

Hg	1.120	ppb	.0000 %	1.120

*** Sample ID: LV031 Seq: 103 16:19:30 24 Feb 2010 HG

SOLID

Hg	.1284	ppb	.0000 %	.1284

*** Sample ID: LV035 Seq: 104 16:20:46 24 Feb 2010 HG

SOLID

Hg	.1956	ppb	.0000 %	.1956

*** Check Standard: 2 Ck2CCV Seq: 105 16:21:56 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		104.8	5.239	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 106 16:23:05 24 Feb 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0095	.2000	ppb	.0000 %

*** Sample ID: LV034 Seq: 107 16:24:13 24 Feb 2010 HG

SOLID

Hg	.2009	ppb	.0000 %	.2009

*** Sample ID: LV036 Seq: 108 16:25:22 24 Feb 2010 HG

SOLID

Hg	.2545	ppb	.0000 %	.2545

*** Sample ID: LV03V Seq: 109 16:26:43 24 Feb 2010 HG

SOLID

Hg	.0757	ppb	.0000 %	.0757

*** Check Standard: 2 Ck2CCV Seq: 110 16:27:49 24 Feb 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.1	5.153	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 111 16:28:58 24 Feb 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0240	.2000	ppb	.0000 %

STD2/CCV STD OB58 ICSA STD OB51 CRI STD OA30
STD3 STD OB59 ICSAB STD OA31 DIL BLK OMR121
STD4 STD OB60 ICV STD 9L649
QSM CRI OA40

Test America North Canton ICP/MS Data Review Checklist

Run/Project Information:

Run Date: 2-25-10 Analyst: lcw Instrument: I8
Prep Batches Run: See Run Log

Circle Methods used: 6020/ 200.8: CORP-MT-0001NC

Review Items

A. Tune/Daily performance	Yes	No	N/A	2nd Level
1: Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
2. Performance check within recommended specfications? (Be>8000cps) (In >300,000 cps) (Pb >100,000 cps) (Co>100000cps) (Mg>10000cps) (CeO/Ce ≤ 0.03) (Ba++/Ba+ ≤ 0.03)(Background < 30cps @ Mass 220) CCT Performance Check (In>75000cps) (Se<20 cps)	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? Correlation coefficient ≥ .995 ?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? *(ICV: = 90 – 110%) (CCV: 90 – 110%, 200.8 = 85 -115%)*	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%)?				✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed ?	✓			✓
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time ?	✓			✓
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits ?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits ?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits ?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
E. Other				
1. Are all nonconformances documented appropriately ?	✓			✓
2. Current IDL/LR data on file ?	✓			✓
3. Calculations checked for error ?	✓			✓
4. Transcriptions checked for error ?	✓			✓
5. All client/project specific requirements met ?	✓			✓
6. Date/time of analysis verified as correct ?	✓			✓

Level I Analyst: Karen K Coats Date: 2-26-10 Time: 6:35 - 16:19
Level I Analyst: Date: Time:
Level II Reviewer: Date: 2-26-10 Time: 6:25 - 16:19
Level II Reviewer: Date: Time:

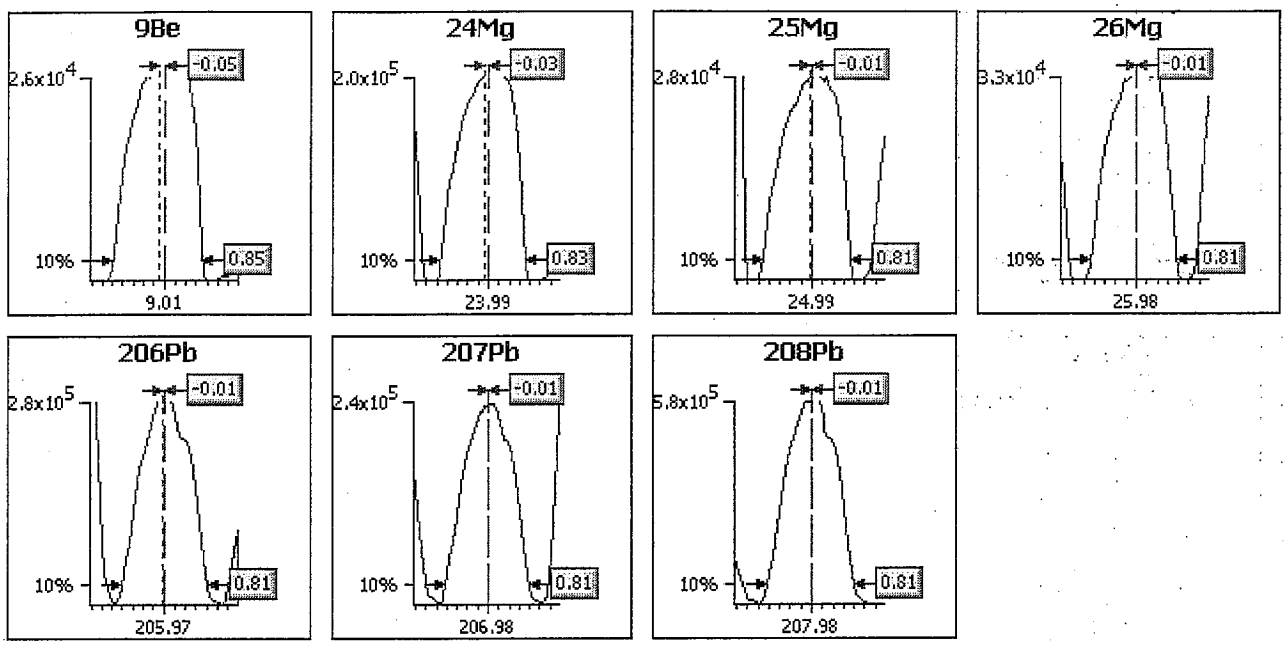
Comments: Lithium is used for Ca

Performance Report

Sample details
Acquired at : 2/25/2010 06:16:15
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Mass Calibration verification

Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 10% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.85	-0.05
24Mg	0.85	0.65	0.10	0.83	-0.03
25Mg	0.85	0.65	0.10	0.81	-0.01
26Mg	0.85	0.65	0.10	0.81	-0.01
206Pb	0.85	0.65	0.10	0.81	-0.01
207Pb	0.85	0.65	0.10	0.81	-0.01
208Pb	0.85	0.65	0.10	0.81	-0.01

Sample details
Acquired at : 2/25/2010 06:16:15
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Tune conditions

Major	
Extraction	-117.6
Lens 1	-1200
Lens 2	-80.0
Focus	12.4
D1	-46.3
D2	-140
Pole Bias	0.1
Hexapole Bias	-4.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	60
Vertical	350
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1500
PC Detector	3225

Add. Gases	
He_H2	0.00
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	137Ba++	101Bkg	115In
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0	10.0
Limits	%RSD	-	5.0%	-	5.0%	-	5.0%	-	-	5.0%
	Countrate	-	>8000	>10000	>10000	>10000	>100000	-	-	>300000
1	06:16:49	0.000	28708.037	207264.12	28644.594	33747.466	363164.00	1586.742	5.667	833871.13
2	06:17:06	0.333	28394.166	210949.93	28223.877	34388.774	363307.07	1610.078	10.667	840186.75
3	06:17:24	0.000	29142.122	208310.38	28444.252	33951.212	367480.41	1690.086	5.000	839223.32
4	06:17:42	0.000	28798.192	212796.52	28908.382	33931.171	364840.01	1748.981	4.333	845922.92
5	06:18:00	0.000	28744.766	212185.47	29098.713	33891.090	366703.58	1701.198	8.000	840947.02
x		0.067	28757.457	210301.28	28663.964	33981.943	365099.02	1667.417	6.733	840030.23
σ		0.15	266.56	2417.91	350.38	240.97	1953.72	67.28	2.60	4306.23
%RSD		223.607	0.927	1.150	1.222	0.709	0.535	4.035	38.569	0.513

Run	Time	137Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	-	-	-	-	-	5.0%	-
	Countrate	-	-	-	>100000	>100000	>100000	<30
1	06:16:49	92428.918	774782.91	21412.635	293800.27	239386.92	598068.10	0.000
2	06:17:06	94480.373	777292.47	21452.687	295116.55	240712.48	589994.52	0.333
3	06:17:24	94540.713	778426.96	21543.915	293016.65	240252.58	595577.93	0.000
4	06:17:42	92985.333	783210.08	21503.864	296436.33	243634.48	597567.27	0.000
5	06:18:00	93675.851	783227.53	20810.762	291642.87	240912.00	596496.59	0.000
x		93622.238	779387.99	21344.773	294002.53	240979.69	595540.88	0.067
σ		923.65	3737.38	302.65	1853.73	1596.05	3246.92	0.15
%RSD		0.987	0.480	1.418	0.631	0.662	0.545	223.607

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0300
1	06:16:49	0.017	0.028
2	06:17:06	0.017	0.028
3	06:17:24	0.018	0.028
4	06:17:42	0.019	0.027
5	06:18:00	0.018	0.027
x		0.0178	0.0274
σ		0.00	0.00
%RSD		4.0968	1.6956

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 2/25/2010 06:26:42
Report name : CCT MODE PERF REPORT [5/14/2008 11:21:44]

Tune conditions

Major	
Extraction	-117.6
Lens 1	-1200
Lens 2	-80.0
Focus	1.6
D1	-51.0
D2	-140
Pole Bias	-14.0
Hexapole Bias	-17.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	60
Vertical	350
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1500
PC Detector	3225

Add. Gases	
He_H2	2.16
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	78Se	115In
Dwell (mSecs)		500.0	10.0
Limits	%RSD	-	5.0%
	Countrate	<20	>75000
1	06:26:43	12.600	119983.67
2	06:27:01	15.733	121353.53
3	06:27:18	14.067	121605.36
4	06:27:36	14.600	122320.56
5	06:27:53	14.533	121276.31
x		14.307	121307.88
σ		1.13	847.15
%RSD		7.926	0.698

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA NORTH CANTON_QSM 3.0.tet
Created By User	martin.nash
Analyte Database	TA NORTH CANTON MULTIMODE.tea
Creation Timestamp	10/10/2007 09:08:48
Last Edited By	Upload
Last Edit Timestamp	2/25/2010 06:33:32
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

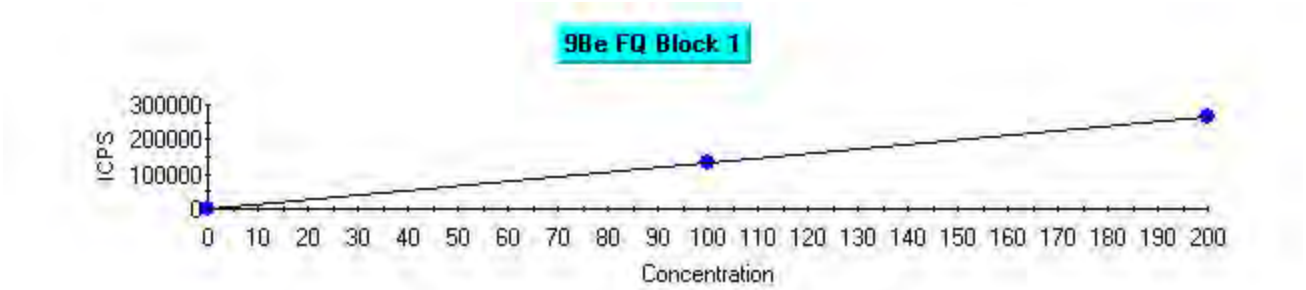
Column headings
- No flag
- Semi Quant
- Standard Addition
- Multi Element

Result cells
- Internal Standard
- Excluded
- QC Warning
- QC Failure

Transient TRA only:
- Peak Not Found
- Manually Edited
- Merged Peak

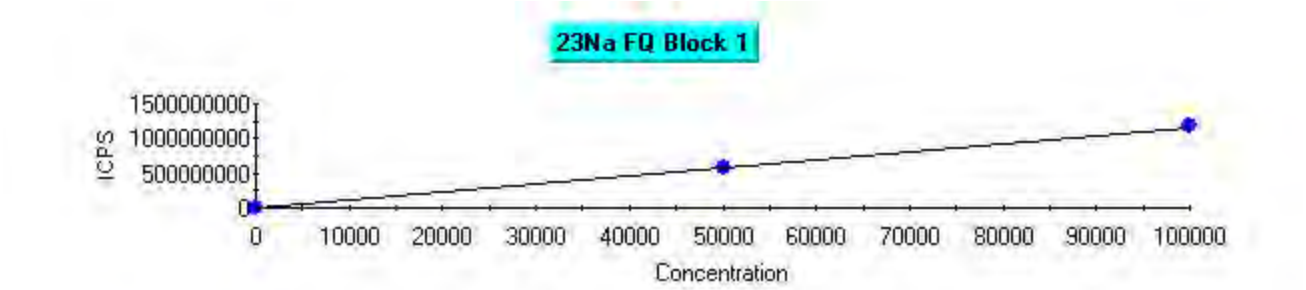
Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Fully Quant Calibration



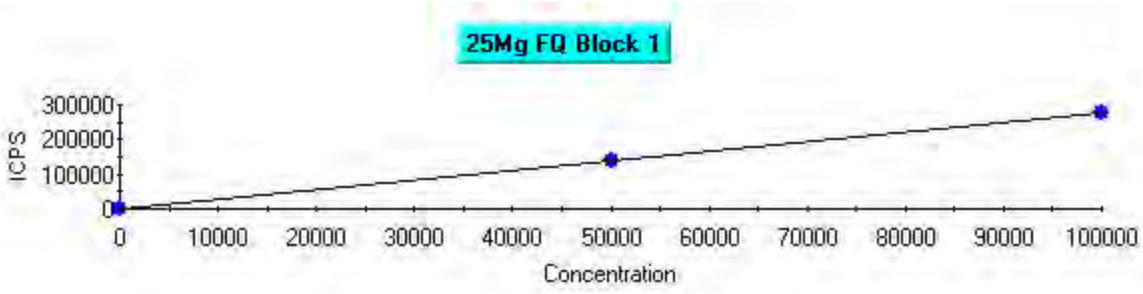
Intercept CPS=21.814631 Intercept Conc=0.016496
Sensitivity=1322.458336 Correlation Coeff=0.999906

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	21.81	0.00
STD2	100.000	101.891	1.891	134768.45	1.89
STD3	200.000	199.054	0.946	263263.08	0.47



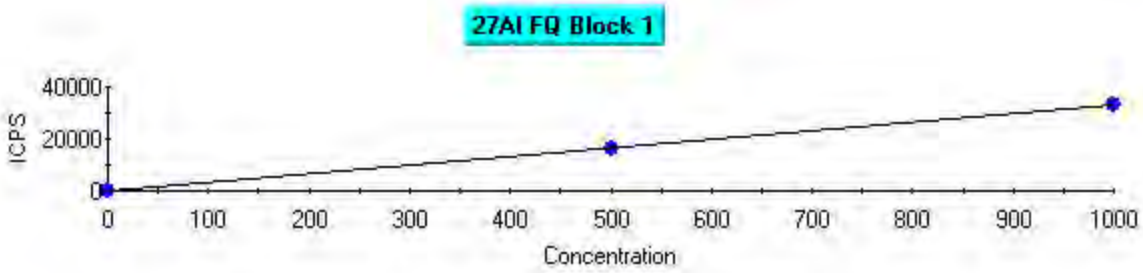
Intercept CPS=177336.622632 Intercept Conc=15.242814
Sensitivity=11634.113191 Correlation Coeff=0.999741

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	177336.62	0.00
STD2	50000.000	48410.777	1589.223	563393799.75	3.18
STD3	100000.000	100794.611	794.611	1172833253.98	0.79



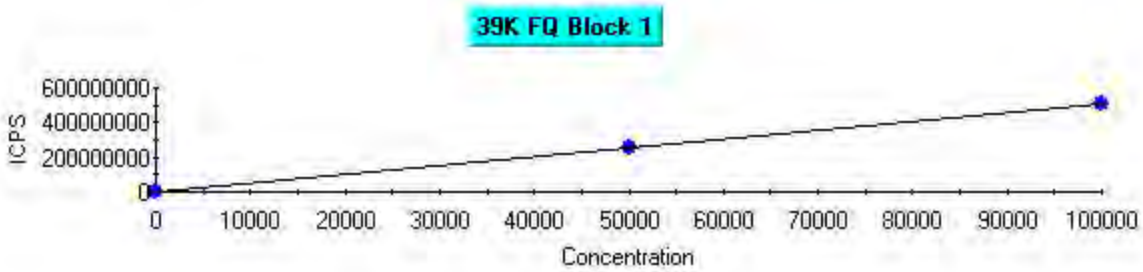
Intercept CPS=1.116765 Intercept Conc=0.403949
Sensitivity=2.764616 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	1.12	0.00
STD2	50000.000	50027.421	27.421	138307.72	0.05
STD3	100000.000	99986.289	13.711	276424.80	0.01



Intercept CPS=193.337158 Intercept Conc=5.935466
Sensitivity=32.573207 Correlation Coeff=0.999911

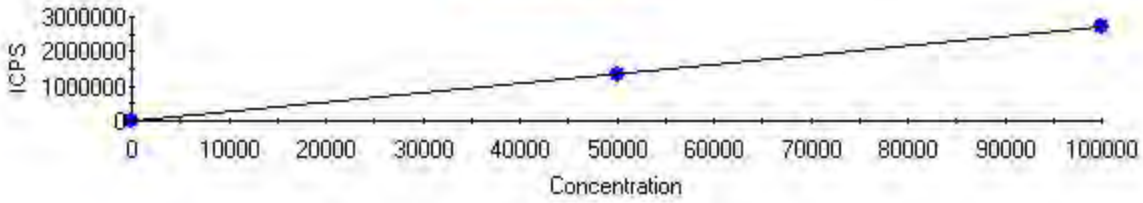
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	193.34	0.00
STD2	500.000	490.704	9.296	16177.15	1.86
STD3	1000.000	1004.648	4.648	32917.94	0.46



Intercept CPS=201418.453931 Intercept Conc=39.846013
Sensitivity=5054.921214 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	201418.45	0.00
STD2	50000.000	49835.400	164.600	252115437.22	0.33
STD3	100000.000	100082.300	82.300	506109560.84	0.08

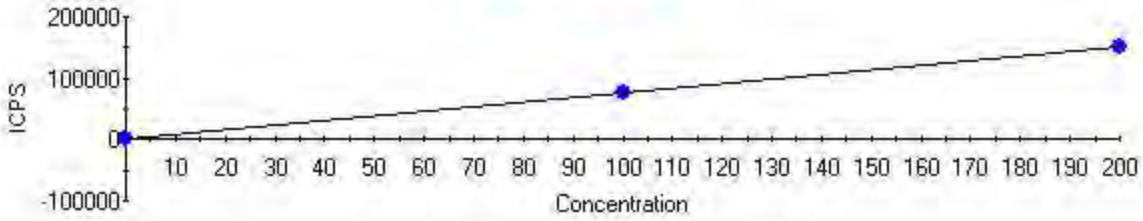
43Ca FQ Block 1



Intercept CPS=702.335259 Intercept Conc=26.004373
Sensitivity=27.008352 Correlation Coeff=0.999827

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	702.34	0.00
STD2	50000.000	48701.094	1298.906	1316038.64	2.60
STD3	100000.000	100649.453	649.453	2719078.22	0.65

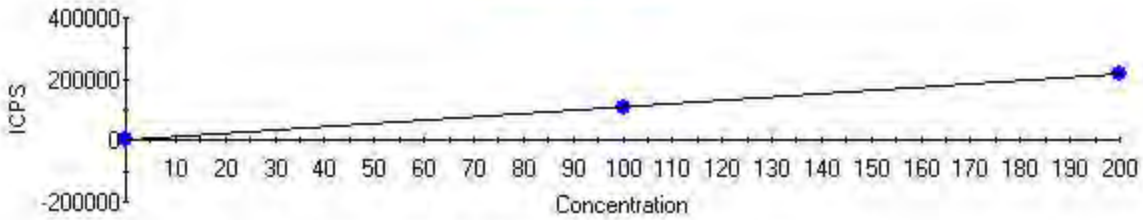
51V FQ Block 1



Intercept CPS=-99.172458 Intercept Conc=-0.130678
Sensitivity=758.906401 Correlation Coeff=0.999997

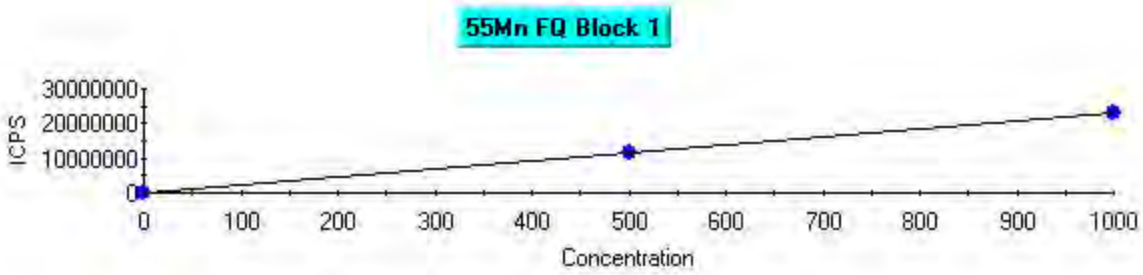
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-99.17	0.00
STD2	100.000	99.638	0.362	75516.49	0.36
STD3	200.000	200.181	0.181	151819.60	0.09

52Cr FQ Block 1



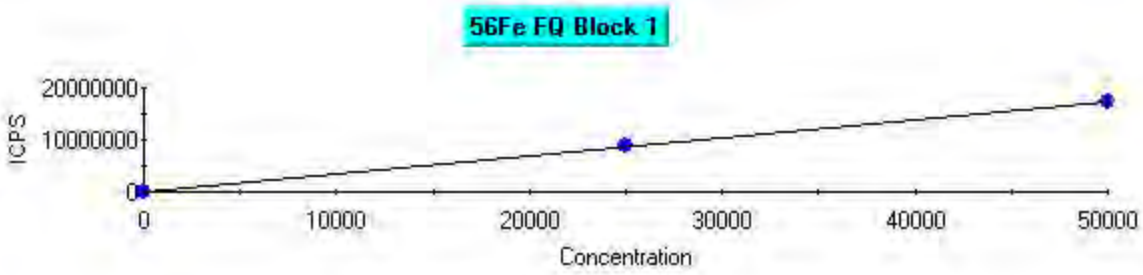
Intercept CPS=-283.530868 Intercept Conc=-0.261809
Sensitivity=1082.967110 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	-283.53	0.00
STD2	100.000	99.936	0.064	107943.74	0.06
STD3	200.000	200.032	0.032	216344.61	0.02



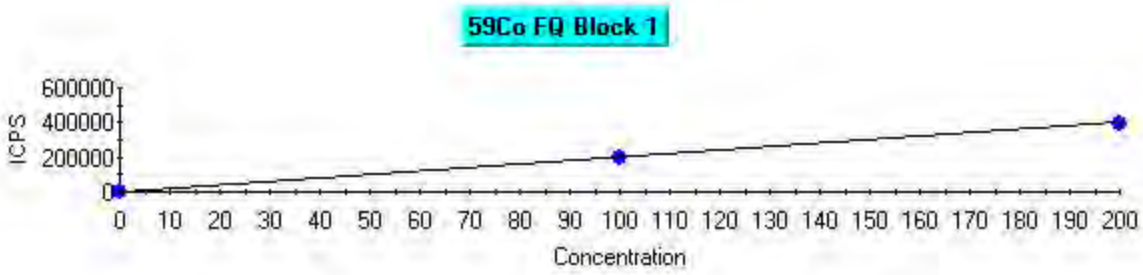
Intercept CPS=2085.711573 Intercept Conc=0.091325
Sensitivity=22838.319184 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	2085.71	0.00
STD2	500.000	498.303	1.697	11382477.91	0.34
STD3	1000.000	1000.849	0.849	22859788.59	0.08



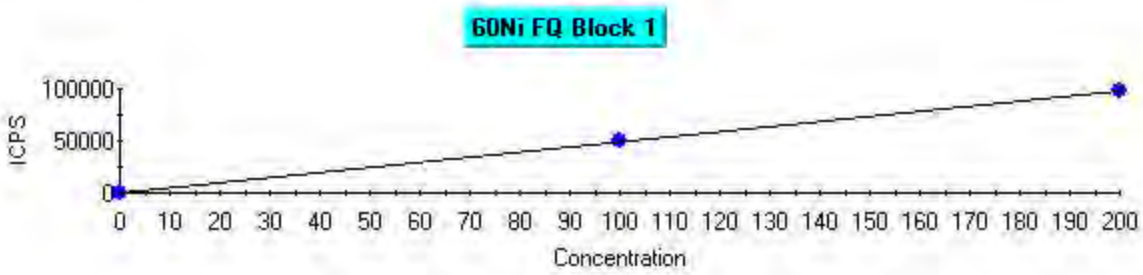
Intercept CPS=588.030803 Intercept Conc=1.685651
Sensitivity=348.844970 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	588.03	0.00
STD2	25000.000	24950.900	49.100	8704584.00	0.20
STD3	50000.000	50024.550	24.550	17451400.69	0.05



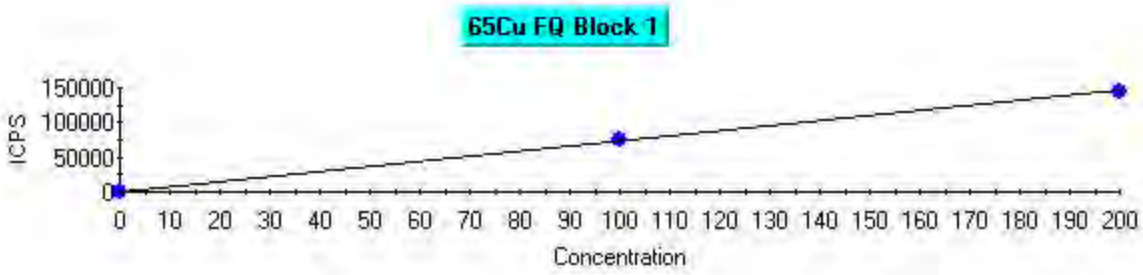
Intercept CPS=8.892696 Intercept Conc=0.004460
Sensitivity=1993.734984 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	8.89	0.00
STD2	100.000	100.713	0.713	200803.53	0.71
STD3	200.000	199.644	0.356	398045.32	0.18



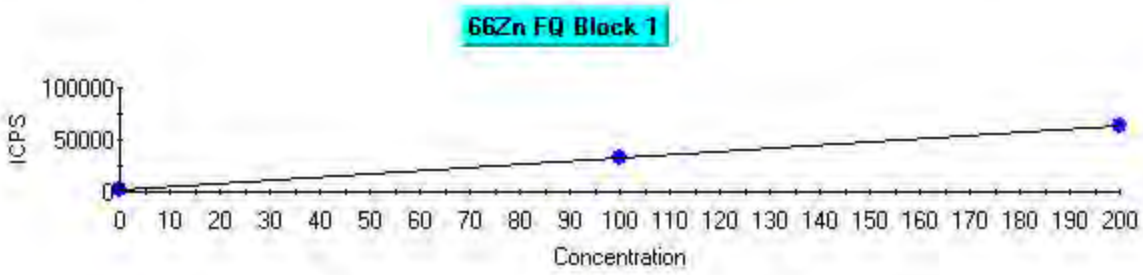
Intercept CPS=23.325637 Intercept Conc=0.047412
Sensitivity=491.978406 Correlation Coeff=0.999902

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	23.33	0.00
STD2	100.000	101.927	1.927	50169.33	1.93
STD3	200.000	199.036	0.964	97944.93	0.48



Intercept CPS=48.798718 Intercept Conc=0.066955
Sensitivity=728.832850 Correlation Coeff=0.999742

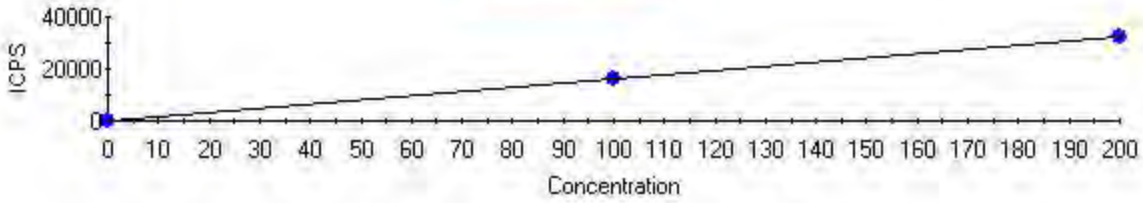
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	48.80	0.00
STD2	100.000	103.122	3.122	75207.59	3.12
STD3	200.000	198.439	1.561	144677.62	0.78



Intercept CPS=1104.576494 Intercept Conc=3.562208
Sensitivity=310.082009 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	1104.58	0.00
STD2	100.000	99.785	0.215	32046.18	0.21
STD3	200.000	200.107	0.107	63154.28	0.05

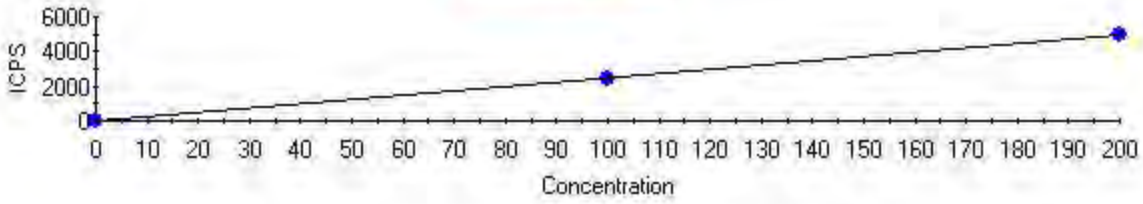
75As FQ Block 1



Intercept CPS=152.217136 Intercept Conc=0.943394
Sensitivity=161.350506 Correlation Coeff=0.999945

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	152.22	0.00
STD2	100.000	101.451	1.451	16521.33	1.45
STD3	200.000	199.275	0.725	32305.29	0.36

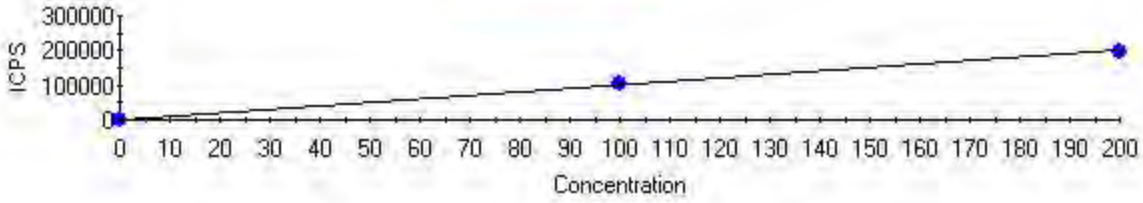
78Se FQ Block 1



Intercept CPS=4.728113 Intercept Conc=0.192780
Sensitivity=24.525984 Correlation Coeff=0.999994

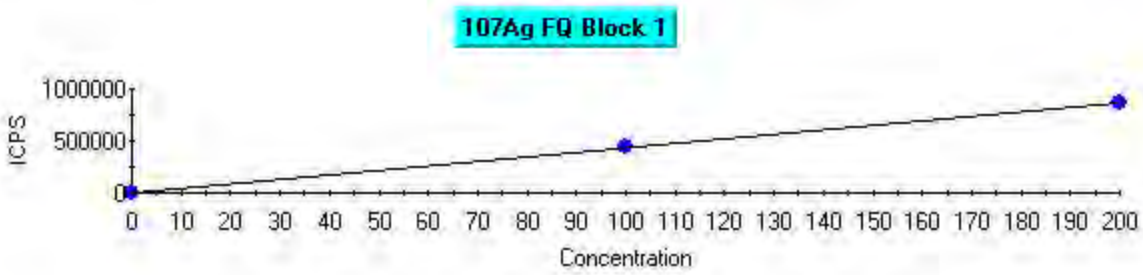
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	4.73	0.00
STD2	100.000	100.483	0.483	2469.16	0.48
STD3	200.000	199.759	0.241	4904.01	0.12

95Mo FQ Block 1



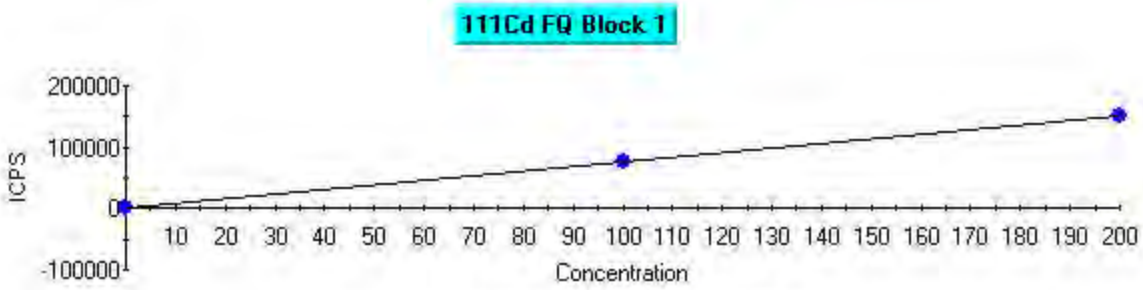
Intercept CPS=27.779149 Intercept Conc=0.027752
Sensitivity=1000.986476 Correlation Coeff=0.999579

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	27.78	0.00
STD2	100.000	103.982	3.982	104112.31	3.98
STD4	200.000	198.009	1.991	198232.13	1.00



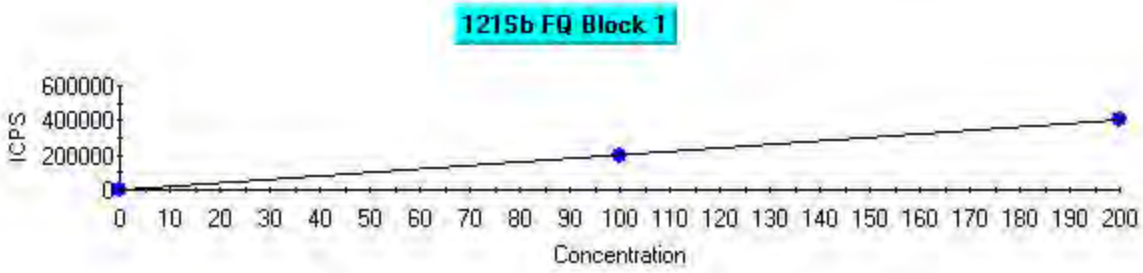
Intercept CPS=4.471298 Intercept Conc=0.001037
Sensitivity=4313.311724 Correlation Coeff=0.999825

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	4.47	0.00
STD2	100.000	102.577	2.577	442449.78	2.58
STD3	200.000	198.712	1.288	857109.75	0.64



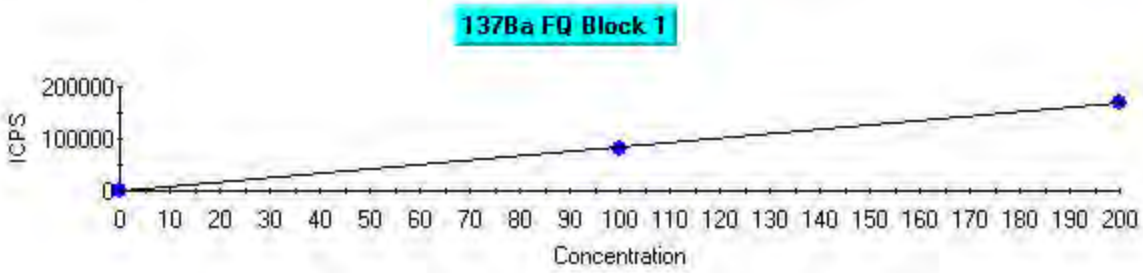
Intercept CPS=1.103144 Intercept Conc=0.001446
Sensitivity=762.853052 Correlation Coeff=0.999951

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1.10	0.00
STD2	100.000	101.368	1.368	77330.20	1.37
STD3	200.000	199.316	0.684	152049.82	0.34



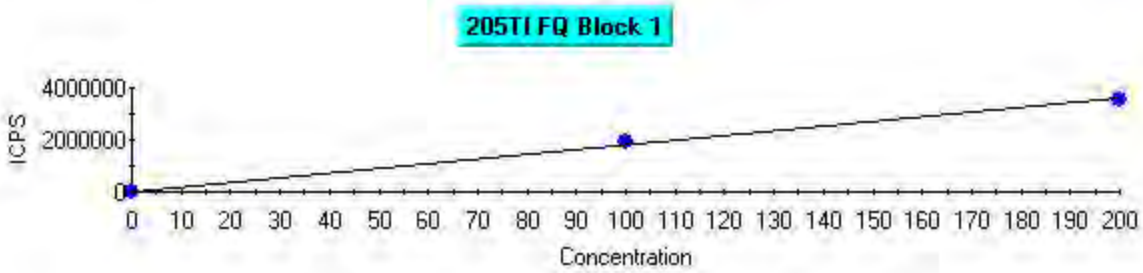
Intercept CPS=29.952312 Intercept Conc=0.014836
Sensitivity=2018.955746 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	29.95	0.00
STD2	100.000	99.535	0.465	200987.58	0.46
STD4	200.000	200.232	0.232	404290.07	0.12



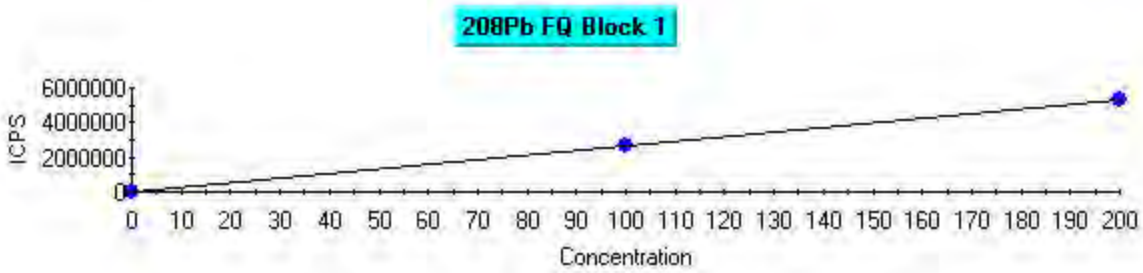
Intercept CPS=71.074158 Intercept Conc=0.084988
Sensitivity=836.288601 Correlation Coeff=0.999928

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	71.07	0.00
STD2	100.000	98.331	1.669	82304.44	1.67
STD3	200.000	200.834	0.834	168026.54	0.42



Intercept CPS=715.541451 Intercept Conc=0.039746
Sensitivity=18002.776685 Correlation Coeff=0.999280

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	715.54	0.00
STD2	100.000	105.194	5.194	1894496.09	5.19
STD3	200.000	197.403	2.597	3554519.44	1.30



Intercept CPS=802.910895 Intercept Conc=0.030427
Sensitivity=26388.254922 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	802.91	0.00
STD2	100.000	99.627	0.373	2629787.37	0.37
STD3	200.000	200.186	0.186	5283374.41	0.09

Dilution Corrected Concentrations

STD1 2/25/2010 06:35:05

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.000%	0.000	-0.000
%RSD		0.882	0.000	0.000
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		-0.000	-0.000	T0.000
%RSD		0.000	0.000	T0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		0.000	0.000	T100.000%
%RSD		0.000	0.000	T0.408
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		100.000%	0.000	-0.000
%RSD		0.552	0.000	0.000
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.000	100.000%	0.000
%RSD		0.000	1.309	0.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.000	100.000%	0.000
%RSD		0.000	1.138	0.000
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		-0.000	-0.000	100.000%
%RSD		0.000	0.000	1.080

STD2 2/25/2010 06:39:35

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.421%	101.900	┬48410.000
%RSD		0.845	1.264	┬0.438
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		50030.000	490.700	┬0.000
%RSD		0.738	2.899	┬0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		┬ 49840.000	48700.000	┬ 92.059%
%RSD		┬ 3.870	1.163	┬0.833
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		92.780%	99.640	99.940
%RSD		1.806	0.560	0.955
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		4.710	┬ 498.300	┬24950.000
%RSD		12.620	┬ 0.495	┬0.645
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		100.700	101.900	103.100
%RSD		0.126	0.593	1.285
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		99.790	88.701%	101.500
%RSD		0.724	0.843	0.672
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.292	100.500	104.000
%RSD		50.100	1.785	0.995
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	102.600	40.290
%RSD		0.000	0.480	69.450
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		101.400	91.888%	99.540
%RSD		1.084	0.354	2.363
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		98.330	0.000	0.000
%RSD		0.616	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		105.200	99.630	89.585%
%RSD		0.420	0.928	0.932

STD3 2/25/2010 06:45:05

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.608%	M 199.100	TM 100800.000
%RSD		2.527	M 2.396	TM 0.849
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 99990.000	M 1005.000	T 0.000
%RSD		M 0.328	M 1.368	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		TM 100100.000	M 100600.000	T 94.838%
%RSD		TM 2.767	M 2.198	T 1.778
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		92.093%	M 200.200	M 200.000
%RSD		1.409	M 0.624	M 0.702
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		10.850	TM 1001.000	TM 50020.000
%RSD		2.681	TM 1.174	TM 0.656
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		M 199.600	M 199.000	198.400
%RSD		M 1.202	M 0.595	0.163
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 200.100	87.306%	M 199.300
%RSD		M 1.335	1.306	M 0.439
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.783	M 199.800	0.208
%RSD		16.760	M 0.508	13.180
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	198.700	157.000
%RSD		0.000	0.218	48.290
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		M 199.300	91.889%	0.056
%RSD		M 0.976	1.450	8.346
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 200.800	0.000	0.000
%RSD		M 0.775	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		T 197.400	M 200.200	87.539%
%RSD		T 0.151	M 0.995	0.717

STD4 2/25/2010 06:51:36

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		96.954%	0.080	44.480
%RSD		0.897	4.095	2.067
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		32.520	-1.488	T 0.000
%RSD		25.790	101.600	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		43.230	35.930	T 94.886%
%RSD		4.683	9.910	T 1.072
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		95.468%	-0.077	0.023
%RSD		1.986	83.600	112.500
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.340	0.471	20.670
%RSD		27.360	0.394	4.609
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.091	0.198	0.498
%RSD		21.620	32.470	7.383
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-1.310	97.024%	0.151
%RSD		21.320	1.537	9.645
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.106	0.056	198.000
%RSD		58.150	295.200	0.883
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.066	10.960
%RSD		0.000	22.600	32.930
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.062	97.432%	M 200.200
%RSD		16.370	1.205	M 0.266
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.076	0.000	0.000
%RSD		31.640	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.404	0.128	104.306%
%RSD		3.123	4.469	0.526

ICV 2/25/2010 06:56:10 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		95.602%	103.032%	T 102.593%
%RSD		1.384	1.297	T 0.484
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		102.521%	101.204%	T 0.000
%RSD		0.765	3.168	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 94.301%	101.669%	T 95.857%
%RSD		T 1.555	0.517	T 1.264
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.690%	101.661%	102.888%
%RSD		1.310	0.543	0.295
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.525	T 103.612%	T 99.699%
%RSD		14.270	T 0.430	T 0.774
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		102.109%	103.890%	104.425%
%RSD		0.475	1.593	1.113
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.449%	90.966%	100.301%
%RSD		0.860	0.854	0.717
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.069	100.862%	103.901%
%RSD		28.190	3.821	0.662
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	106.239%	74.770
%RSD		0.000	0.248	17.280
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		104.785%	94.711%	103.112%
%RSD		0.674	0.486	1.900
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		100.786%	0.000	0.000
%RSD		1.153	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		107.771%	100.744%	95.121%
%RSD		0.656	1.339	0.316

ICB 2/25/2010 07:01:55 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.255%	0.003	2.668
%RSD		1.720	140.900	11.740
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		0.439	0.026	T 0.000
%RSD		166.300	2212.000	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		2.730	0.801	T 94.552%
%RSD		76.630	268.200	T 0.710
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		95.650%	-0.117	-0.005
%RSD		1.556	158.900	556.400
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.128	0.007	0.128
%RSD		202.600	44.240	18.600
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.001	0.000	0.008
%RSD		214.600	14940.000	284.500
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.599	94.869%	-0.017
%RSD		9.144	1.087	287.900
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.016	-0.061	0.214
%RSD		168.000	225.700	16.910
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.002	0.265
%RSD		0.000	97.890	173.200
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.002	97.676%	0.019
%RSD		0.928	0.365	44.140
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.001	0.000	0.000
%RSD		4593.000	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.292	0.009	104.550%
%RSD		9.599	18.360	0.204

CRI 2/25/2010 07:06:33 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		94.447%	109.560%	T 100.550%
%RSD		0.608	1.649	T 0.237
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.928%	90.412%	T 0.000
%RSD		4.305	3.653	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 94.914%	105.206%	T 92.481%
%RSD		T 4.008	0.738	T 0.701
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		95.663%	96.883%	96.798%
%RSD		0.665	2.853	2.143
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.316	119.498%	118.648%
%RSD		100.500	1.480	2.096
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		105.014%	104.947%	121.072%
%RSD		4.373	6.394	4.016
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		85.249%	92.390%	106.405%
%RSD		1.460	1.584	1.228
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.150	102.462%	102.227%
%RSD		36.270	13.300	2.184
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	107.768%	1.982
%RSD		0.000	0.651	101.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		106.616%	98.265%	99.991%
%RSD		11.740	0.847	3.555
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		96.644%	0.000	0.000
%RSD		0.614	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		118.587%	99.665%	103.581%
%RSD		0.562	2.043	0.151

CRIQ 2/25/2010 07:11:07 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.202%	102.251%	T 98.433%
%RSD		0.588	2.421	T 0.888
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		103.338%	95.814%	T 0.000
%RSD		5.863	6.062	T 0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 92.567%	98.040%	T 92.098%
%RSD		T 4.488	0.539	T 0.971
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		94.272%	101.908%	96.769%
%RSD		0.965	1.287	0.891
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		0.050	111.776%	117.539%
%RSD		258.400	1.144	1.113
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		104.115%	106.904%	117.393%
%RSD		1.924	4.543	3.518
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		101.438%	91.269%	103.431%
%RSD		1.888	0.993	3.660
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.114	100.629%	101.837%
%RSD		23.690	3.508	0.337
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	105.729%	2.018
%RSD		0.000	1.577	140.600
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		104.223%	98.006%	97.004%
%RSD		7.415	0.309	0.883
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		94.922%	0.000	0.000
%RSD		4.501	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		103.246%	96.356%	102.736%
%RSD		1.145	1.885	0.906

ICSA 2/25/2010 07:15:43 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.232%	0.014	T 51670.000
%RSD		0.963	25.150	T 0.391
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		52870.000	M 51240.000	0.000
%RSD		0.501	M 0.564	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 50840.000	51700.000	T 83.650%
%RSD		T 4.775	0.389	T 1.966
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		84.615%	-0.204	0.473
%RSD		1.862	46.070	5.071
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.111	1.205	TM 51080.000
%RSD		94.260	1.478	TM 0.462
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.052	0.387	0.245
%RSD		10.190	14.600	19.930
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-1.659	85.769%	0.178
%RSD		9.223	3.098	19.830
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.225	0.043	M 1018.000
%RSD		9.292	247.000	M 0.339
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.033	36.620
%RSD		0.000	12.980	4.962
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.036	89.393%	0.116
%RSD		53.520	1.987	8.022
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.681	0.000	0.000
%RSD		9.447	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.104	0.085	91.475%
%RSD		6.710	4.679	1.860

ICSAB 2/25/2010 07:20:18 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.855%	98.611%	T 104.867%
%RSD		1.125	0.674	T 1.880
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		105.020%	M 102.154%	T 0.000
%RSD		1.000	M 1.409	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 98.014%	104.650%	T 87.908%
%RSD		T 2.141	0.762	T 0.577
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.556%	100.345%	105.185%
%RSD		2.940	1.532	1.381
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.113	T 110.303%	TM 102.690%
%RSD		10.040	T 0.305	TM 1.363
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.895%	104.178%	99.370%
%RSD		0.869	0.550	2.516
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		101.488%	88.334%	98.509%
%RSD		1.186	1.818	0.198
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.076	100.851%	M 1130.000
%RSD		171.300	1.512	M 0.375
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.913%	58.090
%RSD		0.000	0.594	64.390
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		103.749%	92.068%	100.649%
%RSD		1.453	0.707	1.461
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		101.117%	0.000	0.000
%RSD		2.082	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		108.256%	100.937%	95.100%
%RSD		0.365	0.795	0.845

CCV 2/25/2010 07:26:04 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.599%	99.288%	T 98.981%
%RSD		0.959	1.735	T 0.711
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		100.853%	101.167%	T 0.000
%RSD		0.589	1.300	T 0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 99.529%	98.419%	T 96.088%
%RSD		T 2.166	0.849	T 0.581
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		96.817%	98.466%	99.093%
%RSD		1.244	0.770	0.166
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		4.966	T 102.332%	T 98.408%
%RSD		16.830	T 0.709	T 1.805
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		99.684%	99.524%	102.553%
%RSD		0.981	0.541	1.517
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		103.660%	91.173%	102.275%
%RSD		1.210	1.087	0.456
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.215	104.003%	105.566%
%RSD		15.020	1.469	0.265
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	102.063%	108.100
%RSD		0.000	0.834	25.160
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		102.059%	96.036%	100.158%
%RSD		0.518	0.900	0.934
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		99.330%	0.000	0.000
%RSD		2.095	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		105.757%	98.839%	97.629%
%RSD		0.242	0.515	0.480

CCB 2/25/2010 07:32:06 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		98.467%	0.013	9.029
%RSD		0.732	51.650	9.469
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		5.864	2.503	T 0.000
%RSD		63.220	60.310	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		9.407	8.203	T 94.465%
%RSD		13.060	28.080	T 1.026
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		95.951%	-0.196	0.010
%RSD		1.289	71.000	271.100
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.274	0.055	3.750
%RSD		99.160	14.310	21.750
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.013	0.005	-0.007
%RSD		34.440	178.100	316.700
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.335	94.283%	0.048
%RSD		91.980	1.567	98.750
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.024	0.029	0.734
%RSD		201.600	13.890	6.041
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.011	0.000
%RSD		0.000	33.440	0.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.007	99.069%	0.022
%RSD		61.870	0.506	33.990
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.023	0.000	0.000
%RSD		69.640	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.305	0.016	107.818%
%RSD		7.317	25.590	0.395

LVXLMC 2/25/2010 07:36:38 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.721%	90.510	T 9931.000
%RSD		1.114	1.896	T 1.003
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10150.000	M 10060.000	T 0.000
%RSD		2.087	M 0.877	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9863.000	9950.000	T 87.058%
%RSD		T 2.368	0.600	T 0.945
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.271%	96.270	99.350
%RSD		1.487	0.653	0.920
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.683	T 105.700	T 10080.000
%RSD		3.880	T 0.494	T 0.638
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.000	100.900	113.900
%RSD		0.570	0.482	0.289
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		101.300	82.685%	86.920
%RSD		2.460	1.163	0.984
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.044	83.280	99.710
%RSD		229.700	0.908	1.549
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.800	8.113
%RSD		0.000	0.164	515.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		94.460	90.758%	92.390
%RSD		0.396	0.827	0.504
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.240	0.000	0.000
%RSD		0.343	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		104.500	98.470	98.043%
%RSD		0.053	0.689	0.346

LVXLRB 2/25/2010 07:42:06 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		98.031%	0.002	61.980
%RSD		1.393	213.800	2.624
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		18.770	10.710	T 0.000
%RSD		29.720	18.570	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		41.680	99.610	T 93.836%
%RSD		3.747	3.449	T 1.130
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.903%	-0.050	0.584
%RSD		1.875	166.700	18.840
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.176	12.250	44.350
%RSD		64.360	0.165	5.683
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.005	0.222	0.414
%RSD		37.670	31.190	2.147
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		5.900	90.571%	0.087
%RSD		1.397	1.129	151.800
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.233	-0.003	0.428
%RSD		21.120	2793.000	3.032
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.004	-0.318
%RSD		0.000	42.110	316.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.004	96.750%	0.033
%RSD		156.800	0.736	15.180
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.366	0.000	0.000
%RSD		4.046	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.339	0.204	104.643%
%RSD		9.223	4.921	0.289

LVXLRC 2/25/2010 07:46:44 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		93.120%	89.790	T 9842.000
%RSD		0.288	1.230	T 0.119
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10240.000	M 9910.000	T 0.000
%RSD		1.619	M 0.823	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9169.000	9628.000	T 86.420%
%RSD		T 1.041	0.355	T 0.827
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.709%	95.780	97.440
%RSD		0.464	0.740	0.221
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.856	T 105.100	T 9984.000
%RSD		27.340	T 0.619	T 1.499
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.000	99.410	100.800
%RSD		0.616	1.489	0.321
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		98.300	82.445%	85.260
%RSD		1.909	0.785	1.541
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.067	79.390	99.450
%RSD		64.110	4.245	1.628
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.300	39.900
%RSD		0.000	0.637	249.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		91.680	92.115%	88.090
%RSD		1.074	0.132	1.160
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		95.810	0.000	0.000
%RSD		1.276	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		103.000	96.630	97.819%
%RSD		0.439	0.954	0.498

LVTQQ 2/25/2010 07:51:47 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		108.547%	5.125	T 316.900
%RSD		0.545	0.719	T 0.807
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		17420.000	TM 99320.000	T 0.000
%RSD		0.948	TM 0.280	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 5405.000	8179.000	T 108.263%
%RSD		T 2.735	0.729	T 0.758
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		105.860%	M 215.500	M 228.600
%RSD		1.089	M 0.288	M 0.193
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		15.250	TM 11140.000	TM 211100.000
%RSD		0.815	TM 1.027	TM 0.878
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		131.700	176.000	M 215.800
%RSD		0.345	1.188	M 1.075
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 828.800	100.390%	96.140
%RSD		M 0.849	1.691	0.896
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.437	7.986	13.300
%RSD		22.320	12.080	1.582
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.398	-18.730
%RSD		0.000	3.868	36.740
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.205	100.425%	1.334
%RSD		2.629	1.721	2.107
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 756.600	0.000	0.000
%RSD		M 0.379	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.945	159.700	102.456%
%RSD		1.014	0.510	0.684

LVTQ1 2/25/2010 07:56:26 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		110.575%	5.005	T 349.000
%RSD		0.810	1.735	T 0.954
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		20950.000	TM 104800.000	T 0.000
%RSD		0.684	TM 0.743	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 7016.000	7222.000	T 111.579%
%RSD		T 2.854	1.211	T 0.588
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		106.685%	M 209.400	M 353.300
%RSD		1.412	M 0.979	M 0.315
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		23.300	TM 4567.000	TM 235700.000
%RSD		2.158	TM 0.170	TM 2.030
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		90.660	M 248.700	150.100
%RSD		0.293	M 0.624	0.703
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 476.900	100.557%	108.600
%RSD		M 0.640	0.818	0.613
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.602	8.051	13.260
%RSD		5.624	4.457	0.734
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.363	-32.390
%RSD		0.000	4.692	37.790
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.913	101.651%	1.093
%RSD		7.858	1.106	3.776
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 669.500	0.000	0.000
%RSD		M 0.531	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.783	166.400	101.931%
%RSD		1.153	0.867	0.562

LVTQ2 2/25/2010 08:01:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		110.219%	5.283	T 412.700
%RSD		0.167	0.563	T 0.652
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		22320.000	TM 105900.000	T 0.000
%RSD		1.062	TM 0.276	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 7670.000	7335.000	T 111.152%
%RSD		T 4.721	0.192	T 1.149
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		106.434%	M 204.700	M 280.000
%RSD		1.111	M 0.090	M 0.247
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		18.710	TM 4497.000	TM 244900.000
%RSD		2.739	TM 0.615	TM 0.867
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		92.180	M 219.600	154.400
%RSD		0.933	M 0.143	0.598
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 490.100	100.454%	111.900
%RSD		M 0.426	1.584	0.622
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.724	8.590	12.550
%RSD		18.870	2.526	0.841
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.332	-29.400
%RSD		0.000	1.319	31.060
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.834	100.842%	1.015
%RSD		13.420	1.528	8.216
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 661.300	0.000	0.000
%RSD		M 0.487	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.756	144.400	101.196%
%RSD		1.507	0.175	1.794

LVTQ3 2/25/2010 08:05:40 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		108.257%	5.577	T 387.600
%RSD		1.464	3.411	T 1.353
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		22220.000	TM 112000.000	T 0.000
%RSD		1.087	TM 0.558	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 7412.000	5752.000	T 110.291%
%RSD		T 0.821	2.091	T 1.051
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		105.443%	M 229.800	M 331.200
%RSD		1.261	M 0.834	M 0.722
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		19.860	TM 9014.000	TM 218500.000
%RSD		4.672	TM 1.124	TM 0.984
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		111.200	M 221.500	108.600
%RSD		0.379	M 0.791	0.941
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 525.600	100.390%	101.400
%RSD		M 0.321	1.768	0.482
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.690	8.477	14.320
%RSD		15.990	4.720	3.186
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.364	-21.610
%RSD		0.000	4.708	33.090
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.236	100.438%	1.108
%RSD		2.833	1.293	2.413
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 637.500	0.000	0.000
%RSD		M 0.428	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.729	186.200	101.742%
%RSD		1.746	0.290	1.781

LVTT0 2/25/2010 08:10:12 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		106.559%	5.278	T 488.900
%RSD		1.298	0.981	T 1.594
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		36120.000	TM 114000.000	T 0.000
%RSD		0.685	TM 0.378	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 10570.000	49090.000	T 108.122%
%RSD		T 3.806	1.625	T 0.555
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.257%	M 207.200	M 414.600
%RSD		1.785	M 0.691	M 1.137
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		25.540	TM 4097.000	TM 258400.000
%RSD		6.888	TM 0.831	TM 0.510
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		88.350	M 313.100	164.600
%RSD		0.952	M 0.861	1.538
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 526.600	94.758%	117.400
%RSD		M 1.109	1.889	1.288
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.610	8.481	18.300
%RSD		17.020	3.808	0.191
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.253	-41.340
%RSD		0.000	4.165	21.740
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.011	95.670%	1.329
%RSD		4.012	0.992	1.982
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 607.100	0.000	0.000
%RSD		M 1.288	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.730	146.800	97.197%
%RSD		0.780	0.624	1.076

LVTT9 2/25/2010 08:14:49 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		111.423%	5.296	T 307.800
%RSD		1.375	1.488	T 1.378
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		21820.000	TM 101200.000	T 0.000
%RSD		1.036	TM 0.599	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 6471.000	10770.000	T 112.269%
%RSD		T 0.982	0.801	T 0.425
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		104.605%	M 216.600	M 246.900
%RSD		1.582	M 0.838	M 0.469
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		16.230	TM 12550.000	TM 217900.000
%RSD		2.312	TM 0.393	TM 1.373
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		104.200	176.900	98.970
%RSD		0.353	0.251	0.353
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 485.100	99.840%	98.040
%RSD		M 0.763	0.709	0.872
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.530	8.819	19.280
%RSD		20.420	6.921	1.384
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.419	-11.400
%RSD		0.000	5.008	21.160
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.569	99.506%	1.115
%RSD		8.701	1.317	4.440
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 692.600	0.000	0.000
%RSD		M 0.661	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.791	185.200	101.479%
%RSD		1.012	1.137	0.638

LVTVA 2/25/2010 08:19:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		114.190%	5.348	T 318.000
%RSD		1.342	2.685	T 1.244
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		22980.000	TM 107200.000	T 0.000
%RSD		0.216	TM 0.726	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 7370.000	11290.000	T 114.166%
%RSD		T 3.890	1.275	T 0.805
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		106.465%	M 234.900	M 273.900
%RSD		1.485	M 0.687	M 0.404
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		18.450	TM 11390.000	TM 236800.000
%RSD		11.270	TM 0.750	TM 0.794
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.170	196.100	106.300
%RSD		1.243	0.618	0.438
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 554.200	100.051%	106.100
%RSD		M 0.465	1.107	1.365
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.507	8.352	19.770
%RSD		12.050	11.690	0.982
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.401	-24.840
%RSD		0.000	5.580	36.150
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.568	99.610%	1.043
%RSD		2.440	1.806	3.906
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 689.700	0.000	0.000
%RSD		M 0.103	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.685	177.200	100.703%
%RSD		2.432	0.662	1.116

CCV 1 2/25/2010 08:24:05 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.309%	100.396%	T 104.660%
%RSD		1.639	0.716	T 2.720
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		101.585%	118.090%	0.000
%RSD		1.682	4.566	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 100.696%	95.118%	T 87.966%
%RSD		T 3.144	0.651	T 1.237
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		84.491%	98.157%	99.697%
%RSD		2.302	0.210	0.895
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.637	T 103.213%	T 100.431%
%RSD		9.312	T 0.564	T 1.358
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		99.960%	100.105%	102.901%
%RSD		1.525	2.368	1.356
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.093%	81.023%	99.792%
%RSD		1.643	2.255	2.454
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.209	102.503%	102.312%
%RSD		3.705	1.543	0.204
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	102.111%	72.650
%RSD		0.000	0.420	12.110
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		102.058%	86.846%	98.451%
%RSD		1.107	1.244	0.789
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.680%	0.000	0.000
%RSD		0.254	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		105.518%	97.948%	91.181%
%RSD		0.609	1.176	0.833

CCB 1 2/25/2010 08:30:51 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		93.569%	0.020	14.050
%RSD		1.609	57.050	4.057
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		31.820	19.610	T 0.000
%RSD		14.810	20.480	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		13.820	11.760	T 89.686%
%RSD		12.990	18.360	T 0.523
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		87.166%	0.265	0.085
%RSD		1.976	18.370	28.240
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.241	0.384	59.190
%RSD		33.330	3.343	10.280
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.077	0.118	0.101
%RSD		22.660	32.920	32.300
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.299	87.163%	0.169
%RSD		71.510	1.227	18.360
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.005	-0.007	0.192
%RSD		141.100	382.500	17.910
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.059	0.072
%RSD		0.000	14.270	1011.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.075	92.248%	0.068
%RSD		37.510	0.807	19.640
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.182	0.000	0.000
%RSD		49.840	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.234	0.092	104.248%
%RSD		6.509	11.730	0.753

CCV 2/25/2010 08:37:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.722%	102.127%	T 100.427%
%RSD		1.031	0.693	T 0.957
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		100.942%	104.630%	0.000
%RSD		1.318	2.844	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 99.592%	97.247%	T 85.490%
%RSD		T 2.760	1.116	T 0.520
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		85.122%	98.138%	99.640%
%RSD		1.199	0.944	0.412
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.772	T 102.553%	T 101.442%
%RSD		9.237	T 1.159	T 0.566
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.036%	100.617%	102.484%
%RSD		1.043	1.119	0.605
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.836%	81.113%	100.948%
%RSD		0.556	1.679	0.874
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.337	103.922%	104.049%
%RSD		50.970	2.179	0.305
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	102.888%	96.910
%RSD		0.000	0.516	44.810
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		103.092%	86.771%	100.076%
%RSD		0.606	2.115	0.934
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		99.350%	0.000	0.000
%RSD		1.150	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		104.884%	98.999%	92.313%
%RSD		0.862	0.731	0.815

CCB 2/25/2010 08:44:24 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.985%	0.024	11.650
%RSD		1.100	52.300	3.729
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		11.890	3.478	T 0.000
%RSD		39.550	55.920	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		12.040	9.015	T 87.539%
%RSD		30.760	27.610	T 1.007
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.156%	-0.138	-0.012
%RSD		1.006	103.000	141.500
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.236	0.235	11.130
%RSD		83.380	6.107	17.930
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.035	0.027	0.062
%RSD		8.381	89.900	24.900
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.379	87.416%	0.016
%RSD		62.370	0.841	523.900
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.000	0.072	0.183
%RSD		354800.000	132.600	31.540
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.027	0.590
%RSD		0.000	4.742	142.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.014	91.809%	0.036
%RSD		83.640	1.315	16.350
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.022	0.000	0.000
%RSD		43.720	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.233	0.032	103.949%
%RSD		8.659	19.150	0.671

LVXLRB 2/25/2010 08:51:10 QC Status: PASS (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.880%	0.031	66.450
%RSD		1.659	19.910	1.158
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		23.400	13.950	T 0.000
%RSD		38.340	9.088	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		50.840	102.000	T 88.362%
%RSD		0.975	7.905	T 0.715
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		85.961%	-0.212	0.608
%RSD		1.037	81.100	8.887
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.230	12.000	62.360
%RSD		44.990	2.073	2.679
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.056	0.297	0.505
%RSD		11.630	10.830	1.798
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		6.015	83.359%	0.184
%RSD		4.510	1.002	46.540
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.270	0.003	0.187
%RSD		17.150	2524.000	24.670
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.039	0.074
%RSD		0.000	23.900	997.100
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.049	90.195%	0.034
%RSD		36.450	1.667	15.570
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.400	0.000	0.000
%RSD		11.030	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.177	0.235	101.118%
%RSD		6.681	2.358	0.584

LVXLRC 2/25/2010 08:57:58 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.685%	88.110	T 10100.000
%RSD		0.791	2.606	T 0.500
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10180.000	M 9931.000	0.000
%RSD		1.622	M 0.425	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9460.000	9560.000	T 82.029%
%RSD		T 3.778	0.775	T 0.650
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.229%	95.120	97.770
%RSD		0.922	1.394	0.538
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.478	T 104.000	10890.000
%RSD		19.610	T 0.668	0.777
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.980	100.600	101.000
%RSD		1.660	0.757	0.537
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		99.150	75.037%	85.150
%RSD		1.571	2.806	1.837
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.107	80.150	98.840
%RSD		166.300	2.347	0.960
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	100.500	45.380
%RSD		0.000	0.889	77.370
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		92.330	84.625%	89.140
%RSD		0.371	0.990	0.989
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		96.070	0.000	0.000
%RSD		1.627	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		104.000	97.370	93.499%
%RSD		0.810	0.280	0.733

LVTQQ/10 2/25/2010 09:04:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		96.402%	0.645	44.810
%RSD		2.170	0.823	1.130
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1756.000	M 10940.000	T 0.000
%RSD		1.535	M 1.378	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		555.300	808.500	T 94.972%
%RSD		0.297	1.636	T 0.742
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.042%	21.940	22.890
%RSD		0.823	1.409	0.558
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.919	TM 1124.000	T 21940.000
%RSD		48.410	TM 0.501	T 1.437
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		13.010	18.470	23.590
%RSD		0.571	1.216	1.402
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		97.250	93.586%	10.920
%RSD		2.285	2.139	2.163
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.047	0.806	1.407
%RSD		51.050	29.680	5.195
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.068	-4.838
%RSD		0.000	20.650	25.060
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.167	96.860%	0.268
%RSD		7.167	2.069	5.213
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		74.300	0.000	0.000
%RSD		0.495	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.338	16.370	105.756%
%RSD		3.008	0.768	0.406

LVTQ1/10 2/25/2010 09:11:30 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		103.779%	0.572	42.510
%RSD		1.651	4.929	1.954
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2111.000	M 11590.000	T 0.000
%RSD		2.335	M 1.128	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 740.200	718.300	T 103.412%
%RSD		T 2.412	1.551	T 0.417
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.790%	20.170	34.850
%RSD		0.469	0.421	0.853
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.702	T 457.600	T 23990.000
%RSD		16.020	T 1.308	T 1.492
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		9.112	25.430	16.190
%RSD		1.939	0.829	0.581
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		54.650	99.088%	12.440
%RSD		1.179	1.882	2.547
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.043	0.892	1.214
%RSD		84.160	3.303	2.614
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.063	1.064
%RSD		0.000	16.010	90.680
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.100	101.279%	0.165
%RSD		12.390	1.197	8.504
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		65.720	0.000	0.000
%RSD		1.717	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.235	16.850	107.306%
%RSD		1.281	0.626	1.132

LVTQ2 / 10 2/25/2010 09:18:17 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		109.498%	0.576	46.140
%RSD		0.733	1.886	1.404
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2208.000	M 11690.000	T 0.000
%RSD		3.509	M 1.452	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 775.600	709.900	T 107.453%
%RSD		T 2.164	1.909	T 0.335
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.824%	20.630	27.610
%RSD		1.252	0.775	0.889
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.795	T 451.800	T 25120.000
%RSD		23.980	T 1.074	T 1.511
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		9.342	23.230	16.310
%RSD		3.070	0.515	0.400
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		58.270	100.575%	12.810
%RSD		0.665	2.193	1.291
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.070	0.887	1.140
%RSD		24.570	8.436	6.309
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.037	-2.376
%RSD		0.000	27.440	29.950
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.101	102.201%	0.138
%RSD		10.190	1.077	1.340
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		64.480	0.000	0.000
%RSD		0.731	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.198	14.640	106.603%
%RSD		1.304	0.993	0.638

LVTQ3/10 2/25/2010 09:25:05 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		111.120%	0.625	47.330
%RSD		2.289	3.008	3.287
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2231.000	M 12370.000	T 0.000
%RSD		3.762	M 0.709	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 782.400	581.300	T 110.657%
%RSD		T 2.360	1.998	T 0.454
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		103.919%	22.590	33.140
%RSD		1.997	1.392	0.904
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.588	T 884.200	T 22140.000
%RSD		12.660	T 0.413	T 1.203
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		11.120	23.550	11.640
%RSD		1.215	3.264	2.603
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		60.770	102.333%	11.390
%RSD		2.623	2.166	2.615
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.033	1.052	1.337
%RSD		84.980	5.866	6.819
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.038	-2.419
%RSD		0.000	15.910	45.370
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.123	102.662%	0.130
%RSD		7.965	0.875	8.848
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		62.940	0.000	0.000
%RSD		0.751	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.183	18.990	106.351%
%RSD		5.091	0.534	0.997

LVTT0/10 2/25/2010 09:31:51 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		111.199%	0.575	56.250
%RSD		1.692	4.212	2.526
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3717.000	M 12830.000	T 0.000
%RSD		3.674	M 1.570	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1068.000	4599.000	T 106.714%
%RSD		T 2.665	1.835	T 0.093
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.410%	21.290	41.310
%RSD		2.088	2.828	1.351
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.868	T 406.900	T 26240.000
%RSD		28.030	T 0.814	T 1.423
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		8.905	33.060	17.750
%RSD		0.766	1.417	0.870
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		60.830	97.291%	13.080
%RSD		1.659	1.603	1.564
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.062	1.021	1.729
%RSD		33.510	27.740	5.100
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.026	-2.894
%RSD		0.000	10.320	49.460
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.116	98.510%	0.138
%RSD		15.350	0.861	14.510
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		58.990	0.000	0.000
%RSD		0.594	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.167	14.640	103.567%
%RSD		5.541	1.225	0.147

LVTT9/10 2/25/2010 09:38:38 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		113.324%	0.592	37.700
%RSD		1.185	1.957	0.926
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2130.000	M 11170.000	T 0.000
%RSD		2.828	M 0.463	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 670.300	1050.000	T 111.748%
%RSD		T 3.884	1.594	T 0.624
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		105.748%	21.870	24.210
%RSD		0.562	1.006	0.693
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.554	TM 1233.000	T 22000.000
%RSD		11.070	TM 0.808	T 1.809
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		10.340	18.380	10.700
%RSD		2.363	2.720	2.146
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		55.440	105.220%	10.750
%RSD		3.312	2.303	0.151
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.031	0.807	1.772
%RSD		137.400	9.104	3.372
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.038	-0.998
%RSD		0.000	9.024	241.700
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.159	102.649%	0.112
%RSD		33.980	1.447	6.458
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		68.300	0.000	0.000
%RSD		1.182	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.181	18.790	105.905%
%RSD		1.392	0.994	0.750

LVTVA/10 2/25/2010 09:45:25 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		117.026%	0.617	36.350
%RSD		1.003	1.256	2.644
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		2293.000	M 11950.000	T 0.000
%RSD		3.739	M 0.904	T 0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 732.100	1099.000	T 112.503%
%RSD		T 4.102	1.229	T 1.104
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		105.673%	23.020	27.510
%RSD		1.650	2.035	0.495
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		2.344	TM 1143.000	T 24310.000
%RSD		14.700	TM 1.117	T 0.775
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		10.040	20.430	11.430
%RSD		1.244	0.975	1.528
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		65.300	102.470%	12.640
%RSD		1.466	0.800	1.560
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.078	1.205	1.871
%RSD		72.180	6.851	3.082
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.036	-4.129
%RSD		0.000	20.630	49.650
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.156	102.252%	0.101
%RSD		17.660	0.461	5.427
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		68.380	0.000	0.000
%RSD		1.647	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.156	18.160	105.008%
%RSD		6.973	0.494	1.223

CCV 2/25/2010 09:52:12 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.273%	101.946%	T 101.164%
%RSD		1.080	0.777	T 0.538
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		103.180%	101.472%	0.000
%RSD		1.396	1.734	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 101.537%	96.401%	T 84.066%
%RSD		T 3.744	0.320	T 1.219
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		83.072%	99.497%	100.249%
%RSD		0.753	0.896	0.506
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.768	T 102.677%	T 102.517%
%RSD		3.015	T 0.269	T 1.720
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		101.317%	101.573%	103.633%
%RSD		0.759	0.543	0.695
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		104.181%	80.052%	101.192%
%RSD		0.715	1.685	0.847
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.195	102.018%	102.986%
%RSD		67.610	1.978	0.255
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	103.666%	120.300
%RSD		0.000	0.199	31.180
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		103.702%	84.318%	101.287%
%RSD		0.184	1.936	0.574
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		100.049%	0.000	0.000
%RSD		0.715	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		105.782%	99.778%	89.462%
%RSD		0.448	0.233	1.008

CCB 2/25/2010 09:58:57 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.408%	0.018	14.990
%RSD		1.991	16.480	3.605
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		18.970	4.670	T 0.000
%RSD		51.290	9.325	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		14.070	15.630	T 88.762%
%RSD		13.630	13.510	T 0.987
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		85.247%	-0.137	0.017
%RSD		0.657	96.880	215.700
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.170	0.313	17.020
%RSD		90.410	1.838	12.330
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.050	0.043	0.035
%RSD		27.500	77.110	81.850
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.184	85.140%	0.086
%RSD		235.200	1.656	46.610
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.000	0.020	0.167
%RSD		11300.000	546.600	20.050
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.041	0.882
%RSD		0.000	28.790	100.600
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.030	88.470%	0.054
%RSD		74.760	1.652	48.770
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.069	0.000	0.000
%RSD		37.950	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.208	0.045	101.172%
%RSD		7.945	15.190	0.441

LVWW5 2/25/2010 10:05:45 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.475%	4.704	199.300
%RSD		1.095	2.469	3.042
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		8631.000	M 49770.000	T 0.000
%RSD		0.936	M 0.777	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3225.000	10940.000	T 100.014%
%RSD		T 1.097	0.909	T 1.692
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		97.227%	103.500	61.800
%RSD		2.726	0.406	0.271
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.970	TM 6998.000	TM 115000.000
%RSD		9.206	TM 0.414	TM 0.649
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		59.740	109.400	69.210
%RSD		1.884	0.676	2.370
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 991.200	95.336%	46.300
%RSD		M 2.381	3.673	1.834
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.442	6.522	10.650
%RSD		7.688	13.530	2.573
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.351	-5.322
%RSD		0.000	6.227	140.100
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		2.636	95.063%	0.880
%RSD		1.872	2.558	2.609
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 431.000	0.000	0.000
%RSD		M 0.608	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.022	161.600	99.804%
%RSD		1.340	0.713	0.576

LVWW5L 2/25/2010 10:12:33 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		110.965%	1.058	49.200
%RSD		1.360	1.551	2.563
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1718.000	M 10420.000	T 0.000
%RSD		1.135	M 1.275	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 651.500	2204.000	T 111.083%
%RSD		T 2.951	2.238	T 0.251
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.307%	20.870	12.650
%RSD		1.851	0.673	1.778
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.258	TM 1407.000	T 22780.000
%RSD		23.520	TM 1.096	T 0.948
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		12.170	23.550	14.720
%RSD		0.579	2.707	0.566
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 225.300	103.284%	10.600
%RSD		M 0.839	2.703	2.795
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.073	1.442	2.049
%RSD		82.460	24.630	2.089
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.086	-2.658
%RSD		0.000	4.384	183.600
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.555	100.070%	0.198
%RSD		4.078	0.707	8.215
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		86.190	0.000	0.000
%RSD		1.703	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.229	32.490	105.258%
%RSD		3.139	0.947	0.324

LVWW5A 2/25/2010 10:19:21 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		102.144%	104.900	T 11640.000
%RSD		1.075	1.130	T 2.648
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		19510.000	M 58140.000	T 0.000
%RSD		0.794	M 0.172	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 13630.000	20800.000	T 100.284%
%RSD		T 3.437	0.992	T 1.179
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.581%	M 205.800	166.400
%RSD		1.822	M 1.011	1.349
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		9.424	TM 6855.000	TM 121400.000
%RSD		16.130	TM 0.491	TM 0.758
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		164.100	M 211.600	172.200
%RSD		1.525	M 0.491	1.602
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 1053.000	90.753%	136.700
%RSD		M 1.626	2.882	0.494
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.214	88.710	117.700
%RSD		52.630	2.957	1.991
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	108.200	-15.450
%RSD		0.000	1.545	222.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		102.100	91.789%	99.520
%RSD		1.412	2.489	1.582
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 519.500	0.000	0.000
%RSD		M 0.308	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		113.700	TM 254.000	93.295%
%RSD		0.897	TM 0.483	1.490

LVWW5S/5 2/25/2010 10:26:07 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		116.115%	20.250	T 2103.000
%RSD		1.753	1.671	T 1.667
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3776.000	M 12690.000	T 0.000
%RSD		3.619	M 1.389	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2392.000	4245.000	T 109.400%
%RSD		T 4.839	1.672	T 1.041
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		101.589%	38.690	31.750
%RSD		1.509	0.793	1.069
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.860	T 723.800	T 24380.000
%RSD		8.956	T 0.770	T 1.459
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		27.110	42.180	33.060
%RSD		1.324	0.295	1.212
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 227.200	101.206%	26.710
%RSD		M 0.394	0.840	1.241
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.030	18.050	19.430
%RSD		135.300	2.878	1.318
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	19.870	8.199
%RSD		0.000	0.385	229.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		19.480	98.451%	5.898
%RSD		1.858	0.958	1.115
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		96.170	0.000	0.000
%RSD		0.558	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		19.350	45.710	103.086%
%RSD		0.277	0.408	0.544

LVWW5D/5 2/25/2010 10:32:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		113.716%	20.700	T 2107.000
%RSD		1.081	1.381	T 1.946
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3790.000	M 12740.000	T 0.000
%RSD		1.784	M 2.056	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2381.000	3624.000	T 109.910%
%RSD		T 3.354	1.257	T 0.850
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.330%	37.980	31.350
%RSD		2.531	0.404	0.783
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.869	T 695.200	T 23180.000
%RSD		27.280	T 0.836	T 1.097
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		26.580	41.390	32.530
%RSD		1.238	1.638	2.262
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 239.200	100.858%	26.130
%RSD		M 0.839	0.465	2.160
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.036	18.500	19.540
%RSD		57.230	1.513	3.127
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	20.180	25.380
%RSD		0.000	0.920	87.020
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		19.390	98.585%	6.044
%RSD		0.235	0.695	3.129
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		90.080	0.000	0.000
%RSD		0.577	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		19.230	45.750	102.631%
%RSD		0.784	1.067	0.110

LVWW9 2/25/2010 10:39:41 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		109.234%	5.551	T 271.800
%RSD		1.079	2.456	T 2.551
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		15690.000	M 79990.000	T 0.000
%RSD		1.282	M 1.897	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 5663.000	14660.000	T 109.350%
%RSD		T 4.792	2.203	T 0.442
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		101.978%	154.700	105.600
%RSD		2.641	1.122	1.704
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.131	TM 7021.000	TM 174300.000
%RSD		19.630	TM 0.668	TM 1.690
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		62.550	120.100	94.610
%RSD		1.011	2.466	2.399
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 2169.000	97.196%	75.990
%RSD		M 0.850	1.650	1.676
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.515	8.288	13.390
%RSD		12.480	0.296	0.448
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.411	-5.813
%RSD		0.000	6.957	237.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		4.506	96.558%	0.969
%RSD		3.133	1.369	6.236
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 538.000	0.000	0.000
%RSD		M 1.182	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.481	193.700	97.437%
%RSD		1.109	0.707	0.493

LVWXC 2/25/2010 10:46:28 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		112.147%	5.886	T 231.800
%RSD		1.141	1.877	T 1.525
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		13190.000	M 71780.000	T 0.000
%RSD		0.920	M 1.421	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 4686.000	15190.000	T 112.079%
%RSD		T 1.012	0.879	T 0.935
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		103.216%	143.900	94.370
%RSD		2.421	0.326	1.538
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.995	TM 15350.000	TM 160000.000
%RSD		12.060	TM 0.465	TM 0.393
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		84.660	111.900	94.580
%RSD		1.210	0.595	0.710
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 1276.000	98.653%	76.420
%RSD		M 0.470	1.294	1.099
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.532	8.465	13.160
%RSD		6.214	11.840	1.365
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.355	-2.330
%RSD		0.000	2.582	369.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		3.304	96.805%	0.960
%RSD		3.062	0.713	6.803
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 608.100	0.000	0.000
%RSD		M 1.427	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.328	195.800	97.793%
%RSD		1.910	1.015	0.716

LVWXF 2/25/2010 10:53:16 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		112.876%	4.180	T 305.400
%RSD		1.813	2.001	T 0.415
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		15560.000	M 76900.000	T 0.000
%RSD		1.959	M 0.455	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 6624.000	15680.000	T 111.013%
%RSD		T 0.650	1.424	T 0.751
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		103.172%	148.400	109.000
%RSD		0.644	0.700	0.266
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.904	TM 3100.000	TM 145800.000
%RSD		5.482	TM 0.760	TM 0.604
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		49.380	116.700	116.800
%RSD		0.750	1.234	0.488
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 1158.000	98.091%	73.890
%RSD		M 0.849	1.559	1.682
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.603	8.174	13.180
%RSD		10.890	3.039	1.425
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.409	-4.860
%RSD		0.000	5.417	74.360
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		2.743	97.082%	1.206
%RSD		7.095	1.849	4.472
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 423.900	0.000	0.000
%RSD		M 0.315	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.482	TM 226.600	98.637%
%RSD		0.872	TM 1.063	0.490

LVWX0 2/25/2010 11:00:04 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		114.392%	5.171	T 347.900
%RSD		0.447	0.879	T 1.742
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		15120.000	M 72390.000	T 0.000
%RSD		0.600	M 0.287	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 6698.000	24720.000	T 109.790%
%RSD		T 4.532	1.040	T 0.717
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.138%	134.100	127.700
%RSD		1.262	1.005	0.612
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.800	TM 2143.000	TM 130200.000
%RSD		15.970	TM 0.461	TM 0.414
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		52.310	128.400	M 409.300
%RSD		0.262	0.892	M 1.445
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 3070.000	98.335%	148.900
%RSD		M 0.742	1.818	0.898
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.624	10.440	10.310
%RSD		16.010	5.515	1.681
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	1.442	-17.900
%RSD		0.000	0.229	55.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		11.320	95.568%	2.304
%RSD		1.155	1.545	3.090
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 524.300	0.000	0.000
%RSD		M 0.561	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.554	TM 558.400	96.870%
%RSD		2.142	TM 0.967	2.138

LVWX1 2/25/2010 11:06:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		106.239%	4.272	T 417.600
%RSD		1.487	2.477	T 2.007
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		21490.000	M 65470.000	T 0.000
%RSD		0.599	M 0.930	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 10420.000	9838.000	T 109.465%
%RSD		T 3.948	0.961	T 1.053
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.251%	116.000	108.000
%RSD		2.143	0.879	0.975
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.645	TM 7360.000	TM 201100.000
%RSD		5.732	TM 0.241	TM 0.605
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		84.140	182.600	123.500
%RSD		0.749	0.145	0.481
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 425.100	98.103%	127.000
%RSD		M 1.450	0.863	1.989
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.856	6.417	6.935
%RSD		10.140	7.158	2.461
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.347	-34.540
%RSD		0.000	0.864	14.490
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.645	95.816%	0.606
%RSD		17.710	0.340	9.375
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 465.000	0.000	0.000
%RSD		M 1.630	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.100	90.560	97.014%
%RSD		1.040	1.407	0.549

CCV 2 2/25/2010 11:13:41 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.948%	101.723%	T 104.808%
%RSD		2.044	2.259	T 2.524
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.033%	114.746%	0.000
%RSD		0.358	1.417	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 101.417%	95.742%	T 84.179%
%RSD		T 5.965	1.438	T 0.781
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.372%	99.619%	100.783%
%RSD		1.939	0.666	0.924
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.969	T 103.304%	T 98.753%
%RSD		3.862	T 0.184	T 0.527
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		101.360%	101.440%	103.129%
%RSD		0.527	1.707	1.703
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		104.566%	78.774%	101.148%
%RSD		1.837	1.019	0.999
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.327	103.531%	103.036%
%RSD		37.410	1.323	0.803
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	103.684%	93.340
%RSD		0.000	0.986	16.340
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		103.735%	82.164%	102.240%
%RSD		1.841	0.507	0.996
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		100.130%	0.000	0.000
%RSD		1.207	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		107.091%	100.616%	87.679%
%RSD		0.487	0.744	1.053

CCB 2 2/25/2010 11:20:27 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		93.326%	0.042	24.720
%RSD		1.668	16.800	3.348
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		33.450	10.190	T 0.000
%RSD		5.250	33.260	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		23.910	17.230	T 83.955%
%RSD		9.096	8.948	T 0.759
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		84.261%	0.041	0.070
%RSD		1.613	423.900	37.260
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.330	0.562	39.040
%RSD		47.370	3.647	19.810
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.066	0.092	0.103
%RSD		16.100	30.530	17.890
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.251	84.109%	0.133
%RSD		156.900	1.023	83.850
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.007	0.006	0.168
%RSD		222.000	712.100	43.300
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.063	0.080
%RSD		0.000	12.730	173.200
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.057	87.185%	0.068
%RSD		26.450	0.875	16.360
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.123	0.000	0.000
%RSD		14.960	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.220	0.082	99.841%
%RSD		4.920	8.994	1.629

LVWX8 2/25/2010 11:27:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		98.258%	4.350	195.500
%RSD		1.744	1.134	0.450
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10180.000	M 54590.000	T 0.000
%RSD		0.362	M 1.341	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3410.000	12190.000	T 97.271%
%RSD		T 3.660	0.150	T 1.036
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.664%	119.800	75.950
%RSD		1.594	1.016	0.812
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.125	TM 2306.000	TM 106200.000
%RSD		10.440	TM 0.487	TM 1.419
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		42.600	87.600	81.680
%RSD		0.555	1.622	1.248
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 617.500	95.532%	52.310
%RSD		M 1.003	1.684	0.747
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.473	6.835	8.161
%RSD		14.840	4.742	4.486
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.315	-4.233
%RSD		0.000	2.471	93.690
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		3.441	94.562%	0.814
%RSD		0.841	1.766	1.160
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 432.600	0.000	0.000
%RSD		M 0.864	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.110	142.500	98.557%
%RSD		0.353	0.578	1.639

CCV 2/25/2010 11:34:05 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.090%	102.027%	┬ 99.911%
%RSD		1.269	1.909	┬2.874
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		103.376%	109.697%	0.000
%RSD		0.854	1.701	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		┬ 97.981%	96.489%	┬ 78.523%
%RSD		┬1.722	1.004	┬0.856
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.276%	100.073%	101.397%
%RSD		2.769	0.812	1.117
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.415	┬103.819%	┬ 98.863%
%RSD		8.417	┬0.451	┬0.712
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		101.449%	102.968%	103.380%
%RSD		1.612	1.083	0.478
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		106.307%	76.674%	101.091%
%RSD		0.680	1.909	0.270
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.336	101.952%	103.838%
%RSD		19.800	2.894	1.750
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	104.737%	61.560
%RSD		0.000	0.274	110.700
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		104.418%	80.600%	102.011%
%RSD		0.480	1.955	1.430
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		99.982%	0.000	0.000
%RSD		1.120	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		107.165%	100.603%	87.765%
%RSD		0.427	0.761	1.204

CCB 2/25/2010 11:40:53 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.960%	0.054	36.390
%RSD		1.216	9.235	2.418
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		57.490	18.680	T 0.000
%RSD		21.800	12.200	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		40.010	31.970	T 83.335%
%RSD		10.990	10.480	T 1.149
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		82.477%	0.059	0.101
%RSD		1.123	153.100	32.530
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.313	0.947	71.560
%RSD		34.860	0.081	11.660
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.141	0.155	0.143
%RSD		6.791	32.530	24.480
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.226	83.076%	0.149
%RSD		175.000	1.552	7.363
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.007	0.141	0.206
%RSD		911.200	119.100	10.420
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.117	0.032
%RSD		0.000	13.810	4173.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.111	86.776%	0.114
%RSD		24.810	0.892	25.160
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.187	0.000	0.000
%RSD		26.130	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.298	0.158	99.331%
%RSD		9.215	14.030	0.460

LVWW5 2/25/2010 11:47:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.104%	4.826	216.700
%RSD		0.459	2.061	2.204
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		8585.000	M 50330.000	T 0.000
%RSD		0.992	M 1.434	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3219.000	11080.000	T 94.411%
%RSD		T 3.032	0.848	T 1.673
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		95.246%	104.100	62.180
%RSD		2.733	1.334	0.343
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.830	TM 7054.000	TM 109200.000
%RSD		7.339	TM 0.384	TM 1.243
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		59.630	110.100	69.070
%RSD		0.508	0.842	2.031
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 992.700	93.970%	46.720
%RSD		M 0.778	2.441	1.131
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.405	6.218	10.310
%RSD		28.180	6.115	2.025
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.378	-6.227
%RSD		0.000	2.577	179.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		2.665	92.909%	0.926
%RSD		4.745	0.822	1.608
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 433.100	0.000	0.000
%RSD		M 1.748	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.068	163.300	98.062%
%RSD		0.868	0.660	0.463

LVWW5L 2/25/2010 11:54:34 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		112.712%	1.051	55.320
%RSD		0.794	3.832	1.274
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1750.000	M 10510.000	T 0.000
%RSD		1.993	M 0.718	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 657.400	2121.000	T 104.359%
%RSD		T 0.984	1.451	T 0.384
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.498%	20.510	12.670
%RSD		1.273	1.053	0.422
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.424	TM 1411.000	T 21930.000
%RSD		10.980	TM 0.313	T 1.301
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		12.150	23.320	14.810
%RSD		0.590	4.236	1.928
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 226.300	100.029%	10.390
%RSD		M 0.388	1.516	4.336
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.137	1.566	2.026
%RSD		35.500	11.840	7.056
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.084	-1.346
%RSD		0.000	7.144	112.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.580	97.039%	0.180
%RSD		9.996	1.223	13.210
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		85.770	0.000	0.000
%RSD		1.328	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.234	32.890	102.975%
%RSD		0.625	0.392	0.611

LVWW5A 2/25/2010 12:01:23 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.965%	106.200	T 11450.000
%RSD		1.370	1.827	T 1.709
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		19560.000	M 58730.000	T 0.000
%RSD		1.062	M 1.073	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 14170.000	21010.000	T 95.772%
%RSD		T 1.902	1.965	T 0.323
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		92.093%	M 204.800	165.500
%RSD		2.260	M 0.981	1.282
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		10.420	TM 6813.000	TM 116900.000
%RSD		4.243	TM 0.747	TM 0.877
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		164.500	M 214.800	174.600
%RSD		1.748	M 1.758	0.939
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 1070.000	87.761%	138.100
%RSD		M 1.212	2.462	1.536
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.102	92.610	119.100
%RSD		98.350	0.995	0.456
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	110.300	55.700
%RSD		0.000	0.307	142.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		104.800	87.072%	101.800
%RSD		1.896	0.341	1.507
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 526.300	0.000	0.000
%RSD		M 1.483	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		114.600	TM 251.600	91.135%
%RSD		0.924	TM 1.580	0.349

LVWW5S/5 2/25/2010 12:08:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		115.939%	20.500	T 2057.000
%RSD		0.646	0.981	T 2.130
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3796.000	M 12900.000	T 0.000
%RSD		1.142	M 0.271	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2409.000	4277.000	T 103.063%
%RSD		T 1.142	1.788	T 0.182
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.237%	39.950	32.170
%RSD		1.429	0.196	0.450
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.239	T 730.900	T 23510.000
%RSD		10.800	T 0.380	T 0.544
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		27.140	41.890	33.810
%RSD		0.302	1.795	1.383
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 230.200	99.043%	27.090
%RSD		M 0.397	1.210	1.162
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.038	18.570	19.710
%RSD		70.740	3.794	1.159
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	20.090	7.420
%RSD		0.000	0.772	185.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		19.370	95.939%	5.978
%RSD		2.436	0.799	1.095
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		95.460	0.000	0.000
%RSD		2.198	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		19.350	45.970	101.039%
%RSD		0.759	0.673	0.831

LVWW5D/5 2/25/2010 12:14:56 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		114.205%	20.830	T 2075.000
%RSD		1.494	1.394	T 2.434
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3777.000	M 13010.000	T 0.000
%RSD		2.120	M 0.948	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2600.000	3655.000	T 104.931%
%RSD		T 1.716	2.220	T 0.138
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.754%	38.700	31.790
%RSD		2.158	2.242	1.322
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.733	T 692.300	T 22340.000
%RSD		22.610	T 0.442	T 1.076
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		26.930	40.600	32.110
%RSD		0.394	1.795	2.142
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 241.000	98.737%	26.650
%RSD		M 0.441	1.107	2.219
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.031	18.600	19.950
%RSD		106.700	9.138	0.960
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	20.310	-20.800
%RSD		0.000	0.668	261.700
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		19.620	95.599%	6.076
%RSD		3.912	0.567	5.536
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		92.850	0.000	0.000
%RSD		1.687	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		19.440	46.410	100.114%
%RSD		0.911	0.646	0.861

LVWW9/10 2/25/2010 12:21:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		116.796%	0.642	39.280
%RSD		1.274	4.160	2.229
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1592.000	M 8532.000	T 0.000
%RSD		3.803	M 0.390	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 582.000	1403.000	T 106.096%
%RSD		T 1.572	3.177	T 0.217
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		103.813%	14.960	10.630
%RSD		1.401	1.664	0.878
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.636	T 703.500	T 16350.000
%RSD		12.590	T 0.409	T 0.692
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		6.430	12.560	10.060
%RSD		1.526	3.855	2.572
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 254.900	101.391%	8.644
%RSD		M 0.276	1.303	1.219
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.067	0.862	1.386
%RSD		64.930	16.870	1.315
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.079	-2.410
%RSD		0.000	11.340	213.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.557	98.774%	0.124
%RSD		3.837	0.605	7.013
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		52.730	0.000	0.000
%RSD		0.616	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.253	19.610	103.230%
%RSD		5.747	1.043	0.578

LVWXC/10 2/25/2010 12:28:31 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		117.166%	0.636	28.890
%RSD		0.740	0.335	2.473
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1331.000	M 7550.000	T 0.000
%RSD		2.288	M 1.314	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 512.200	1435.000	T 106.765%
%RSD		T 0.189	0.830	T 0.936
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		104.098%	14.010	9.457
%RSD		1.678	2.935	1.077
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.404	TM 1539.000	T 15120.000
%RSD		10.040	TM 0.114	T 0.794
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		8.451	11.220	10.090
%RSD		2.789	2.528	2.609
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		148.100	102.284%	8.450
%RSD		1.541	1.087	2.106
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.067	1.010	1.339
%RSD		24.500	21.020	13.750
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.055	-1.729
%RSD		0.000	13.690	94.230
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.380	98.390%	0.107
%RSD		12.600	0.749	17.930
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		59.570	0.000	0.000
%RSD		1.171	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.175	19.790	102.680%
%RSD		7.155	1.281	0.620

LVWXF/10 2/25/2010 12:35:19 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		116.628%	0.452	38.980
%RSD		1.725	1.398	3.968
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1559.000	M 8374.000	T 0.000
%RSD		2.668	M 1.955	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 640.200	1543.000	T 107.026%
%RSD		T 4.110	0.899	T 0.934
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		103.011%	14.930	11.110
%RSD		2.929	2.441	3.169
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.699	T 317.100	T 14060.000
%RSD		13.000	T 1.016	T 1.130
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		5.083	12.230	12.450
%RSD		0.992	3.555	2.796
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		132.100	102.484%	8.295
%RSD		0.352	1.976	2.402
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.095	0.848	1.284
%RSD		73.120	14.520	6.243
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.038	-3.085
%RSD		0.000	5.719	46.310
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.312	98.396%	0.138
%RSD		7.256	1.164	5.002
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		41.620	0.000	0.000
%RSD		1.413	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.168	24.030	102.768%
%RSD		4.871	0.700	0.920

LVWX0/10 2/25/2010 12:42:06 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		117.110%	0.575	43.230
%RSD		1.046	0.567	2.134
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1521.000	M 7795.000	T 0.000
%RSD		3.916	M 1.319	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 672.500	2415.000	T 104.968%
%RSD		T 2.767	1.683	T 0.619
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.220%	13.730	13.070
%RSD		1.449	1.362	0.899
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.321	T 216.400	T 12560.000
%RSD		2.827	T 0.760	T 1.204
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		5.299	13.400	43.320
%RSD		2.184	3.641	3.929
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 356.900	101.610%	16.520
%RSD		M 1.050	1.377	0.597
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.049	1.199	1.025
%RSD		71.920	17.800	4.220
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.154	-1.350
%RSD		0.000	7.452	450.600
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.204	97.138%	0.253
%RSD		7.293	1.577	15.120
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		50.690	0.000	0.000
%RSD		1.443	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.157	61.230	102.064%
%RSD		3.129	0.388	0.977

LVWX1/10 2/25/2010 12:48:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		114.636%	0.467	50.950
%RSD		2.219	3.452	1.203
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2241.000	M 7150.000	T 0.000
%RSD		0.955	M 1.466	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1042.000	928.100	T 105.233%
%RSD		T 5.078	2.100	T 0.474
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.876%	11.520	11.010
%RSD		0.642	4.517	0.675
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.679	T 745.300	T 20140.000
%RSD		25.720	T 0.210	T 2.031
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		8.650	19.780	13.490
%RSD		3.351	1.330	1.730
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		50.450	101.812%	14.250
%RSD		1.412	1.793	0.523
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.080	0.860	0.685
%RSD		47.790	10.920	9.670
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.037	-3.051
%RSD		0.000	12.840	47.250
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.066	99.013%	0.066
%RSD		13.670	2.197	8.005
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		45.880	0.000	0.000
%RSD		0.753	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.113	9.105	101.379%
%RSD		4.518	0.640	0.735

CCV 2/25/2010 12:55:41 QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		83.382%	102.810%	T 98.910%
%RSD		1.830	2.434	T 1.035
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		104.908%	106.357%	0.000
%RSD		0.867	3.012	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 103.634%	96.855%	T 76.423%
%RSD		T 2.424	1.555	T 1.027
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		78.096%	100.233%	101.334%
%RSD		2.107	0.992	0.971
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		5.295	T 103.683%	T 97.161%
%RSD		23.740	T 0.613	T 0.910
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		102.137%	100.970%	104.080%
%RSD		0.834	0.962	1.015
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		104.611%	75.176%	102.589%
%RSD		0.983	2.072	1.660
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.295	104.581%	105.065%
%RSD		9.822	0.524	0.903
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	105.880%	29.900
%RSD		0.000	0.517	129.900
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		106.802%	77.755%	104.481%
%RSD		0.704	1.455	0.991
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		102.339%	0.000	0.000
%RSD		0.998	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		108.019%	101.897%	85.291%
%RSD		0.263	0.820	0.939

CCB 2/25/2010 13:02:28 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.971%	0.028	20.940
%RSD		0.345	46.330	2.526
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		17.450	4.032	T 0.000
%RSD		23.730	29.270	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		23.950	27.810	T 80.553%
%RSD		20.220	6.070	T 0.395
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.173%	0.117	-0.006
%RSD		1.064	27.980	459.000
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.489	0.490	17.330
%RSD		2.395	2.767	6.025
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.029	0.063	0.047
%RSD		12.560	51.810	82.790
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.935	82.378%	0.000
%RSD		19.870	1.952	36100.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.007	-0.026	0.134
%RSD		184.000	146.900	19.430
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.037	0.384
%RSD		0.000	25.930	122.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.036	84.613%	0.027
%RSD		35.150	0.518	7.562
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.056	0.000	0.000
%RSD		28.530	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.202	0.044	97.931%
%RSD		5.411	5.164	0.696

LVWX8/10 2/25/2010 13:09:15 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.890%	0.457	26.970
%RSD		2.177	3.066	4.194
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1058.000	M 5646.000	T 0.000
%RSD		4.990	M 1.270	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		366.000	1168.000	T 81.805%
%RSD		0.349	2.895	T 0.668
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		82.715%	11.290	7.508
%RSD		1.962	1.122	1.387
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.364	T 233.700	T 10560.000
%RSD		24.860	T 0.365	T 0.606
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		4.269	8.580	8.221
%RSD		5.637	3.425	3.785
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		71.740	84.390%	5.787
%RSD		3.452	3.219	3.538
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.014	0.553	0.780
%RSD		192.200	24.170	5.697
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.038	-0.673
%RSD		0.000	23.290	541.200
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.337	85.792%	0.100
%RSD		10.780	1.687	10.600
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		42.080	0.000	0.000
%RSD		2.272	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.167	14.080	98.532%
%RSD		0.883	0.665	1.770

CCV 2/25/2010 13:16:02 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		83.520%	102.447%	T 98.075%
%RSD		1.839	2.555	T 2.351
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		104.359%	106.555%	0.000
%RSD		1.774	2.785	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 105.253%	97.381%	T 77.060%
%RSD		T 3.852	2.067	T 0.882
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		79.899%	100.031%	101.597%
%RSD		4.007	0.941	0.494
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		5.659	T 103.936%	T 98.555%
%RSD		21.710	T 0.565	T 1.435
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		101.870%	101.633%	104.405%
%RSD		1.599	1.276	2.387
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		105.904%	77.306%	102.050%
%RSD		0.822	2.410	1.107
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.106	105.066%	105.302%
%RSD		135.100	0.298	0.318
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	105.304%	96.790
%RSD		0.000	0.827	89.010
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		105.569%	80.203%	102.965%
%RSD		1.307	2.291	1.052
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		101.805%	0.000	0.000
%RSD		1.213	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		107.490%	101.915%	86.126%
%RSD		0.495	0.954	0.874

CCB 2/25/2010 13:22:49 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.807%	0.040	27.220
%RSD		1.857	13.890	3.818
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		28.110	5.713	T 0.000
%RSD		4.053	13.520	T 0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		31.330	33.330	T 81.577%
%RSD		4.194	9.691	T 0.926
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		83.121%	-0.051	0.073
%RSD		2.103	267.200	51.430
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.435	0.575	28.220
%RSD		35.760	3.534	16.640
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.065	0.069	0.104
%RSD		31.630	57.070	25.010
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		0.946	82.934%	0.158
%RSD		13.300	0.910	38.250
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.021	0.073	0.168
%RSD		103.700	91.660	11.810
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.074	0.169
%RSD		0.000	19.830	921.300
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.075	85.875%	0.073
%RSD		54.960	1.081	30.000
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.090	0.000	0.000
%RSD		50.720	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.262	0.081	98.883%
%RSD		2.587	17.370	1.246

LVTRC 2/25/2010 13:29:36 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		99.448%	4.192	225.900
%RSD		0.240	1.205	1.704
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		13240.000	M 80380.000	T 0.000
%RSD		0.483	M 0.688	T 0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 4724.000	9063.000	T 95.856%
%RSD		T 4.531	0.819	T 1.172
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		97.977%	198.600	101.900
%RSD		2.225	0.392	0.696
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		7.088	TM 11170.000	TM 149900.000
%RSD		10.080	TM 0.328	TM 1.037
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		91.550	91.880	64.540
%RSD		2.235	0.776	0.966
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		M 317.000	93.589%	73.620
%RSD		M 2.264	3.654	1.707
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.449	6.601	11.800
%RSD		6.749	2.766	3.652
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.301	-14.160
%RSD		0.000	1.782	45.120
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		1.046	92.243%	0.759
%RSD		9.996	2.981	3.283
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		M 529.500	0.000	0.000
%RSD		M 1.351	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		1.467	126.200	97.634%
%RSD		0.961	0.567	1.213

LVTRM 2/25/2010 13:36:25 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.720%	6.595	T 529.600
%RSD		1.960	1.581	T 2.472
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		30030.000	M 100300.000	0.000
%RSD		1.159	M 0.871	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 7747.000	86170.000	T 91.109%
%RSD		T 4.708	1.465	T 0.301
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		90.250%	168.600	133.100
%RSD		2.206	0.647	0.655
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.029	TM 3379.000	TM 224700.000
%RSD		10.570	TM 0.683	TM 0.238
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		85.960	160.600	M 200.800
%RSD		0.847	0.557	M 0.719
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 870.300	85.775%	93.820
%RSD		M 0.510	1.365	0.994
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.700	8.792	9.005
%RSD		5.794	5.006	2.031
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.296	-32.250
%RSD		0.000	5.083	85.640
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		13.370	86.310%	1.499
%RSD		2.279	0.999	5.816
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 849.500	0.000	0.000
%RSD		M 0.897	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.352	TM 281.800	90.057%
%RSD		0.691	TM 0.090	1.645

LVTRQ 2/25/2010 13:43:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		101.514%	4.734	T 314.800
%RSD		0.703	2.542	T 0.990
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		21940.000	M 95690.000	T 0.000
%RSD		1.082	M 0.169	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 8115.000	27480.000	T 101.479%
%RSD		T 2.588	1.890	T 0.385
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		98.228%	179.700	127.700
%RSD		1.383	0.260	0.032
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.768	TM 3700.000	TM 185200.000
%RSD		4.835	TM 0.910	TM 0.294
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		76.820	149.500	131.300
%RSD		0.255	0.328	0.950
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 557.700	94.866%	90.320
%RSD		M 0.912	1.707	0.546
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.672	6.598	10.610
%RSD		13.730	4.582	0.989
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.287	-30.430
%RSD		0.000	3.510	33.010
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.451	91.926%	1.225
%RSD		8.260	1.595	4.262
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 594.400	0.000	0.000
%RSD		M 0.453	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.320	142.000	97.994%
%RSD		2.680	0.905	0.614

LVTTQ 2/25/2010 13:50:01 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		105.029%	4.145	T 331.700
%RSD		0.707	1.871	T 2.019
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		27960.000	TM 112500.000	T 0.000
%RSD		0.608	TM 0.109	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 8274.000	22660.000	T 103.857%
%RSD		T 1.265	1.109	T 0.592
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.250%	M 220.300	161.000
%RSD		2.060	M 1.193	0.820
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		10.050	TM 1648.000	TM 219800.000
%RSD		5.164	TM 0.370	TM 0.688
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		56.610	150.000	135.200
%RSD		1.396	1.588	2.121
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 411.600	96.648%	105.400
%RSD		M 2.104	2.783	1.376
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.613	7.475	12.340
%RSD		14.590	7.055	1.082
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.209	-47.470
%RSD		0.000	6.918	12.580
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.608	92.523%	0.855
%RSD		13.040	1.912	5.225
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 473.700	0.000	0.000
%RSD		M 0.718	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.537	103.700	95.364%
%RSD		1.961	0.166	1.269

LVTTW 2/25/2010 13:56:48 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.125%	3.942	T 407.500
%RSD		2.137	2.914	T 0.365
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		40380.000	M 82010.000	0.000
%RSD		0.594	M 0.507	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 10460.000	50360.000	T 95.163%
%RSD		T 2.475	1.984	T 0.468
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		93.549%	142.800	126.400
%RSD		1.343	0.986	0.552
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.179	TM 2607.000	TM 158100.000
%RSD		6.881	TM 0.514	TM 1.255
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		66.760	151.000	121.800
%RSD		0.406	1.694	0.893
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 431.300	89.458%	65.430
%RSD		M 0.228	0.710	0.274
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.744	6.718	9.716
%RSD		6.657	6.557	3.447
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.221	-28.610
%RSD		0.000	3.036	21.060
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.031	88.472%	0.709
%RSD		0.804	1.419	3.976
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 413.700	0.000	0.000
%RSD		M 0.800	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.273	96.330	91.959%
%RSD		0.922	0.250	1.332

LVTTX 2/25/2010 14:03:34 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.198%	1.230	T 996.400
%RSD		1.719	5.766	T 1.006
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		41490.000	M 26640.000	T 0.000
%RSD		1.163	M 1.858	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2863.000	TM 237200.000	T 79.734%
%RSD		T 2.399	TM 2.310	T 0.812
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.778%	93.550	34.650
%RSD		0.396	1.163	1.852
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.575	TM 1890.000	TM 101500.000
%RSD		20.000	TM 0.982	TM 0.675
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		37.420	78.880	102.700
%RSD		0.962	1.848	1.599
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 515.200	76.483%	50.150
%RSD		M 1.554	1.832	1.797
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.521	4.760	4.342
%RSD		4.411	9.673	1.856
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.187	-14.600
%RSD		0.000	6.345	30.750
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.914	80.173%	0.982
%RSD		10.010	1.484	4.414
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		112.600	0.000	0.000
%RSD		0.998	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.441	59.090	83.523%
%RSD		2.402	0.167	0.768

LV1L1B 2/25/2010 14:10:20 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.071%	-0.006	71.210
%RSD		0.537	65.280	2.879
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		31.930	5.209	0.000
%RSD		34.260	20.610	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		32.560	216.300	T 77.536%
%RSD		3.224	2.330	T 0.715
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		83.721%	-0.006	0.863
%RSD		2.879	1036.000	3.448
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.875	0.897	59.030
%RSD		9.302	1.699	0.907
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.014	0.501	0.455
%RSD		6.312	4.970	13.390
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		6.840	84.834%	0.027
%RSD		6.110	2.036	332.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.280	0.134	0.039
%RSD		10.480	124.300	65.970
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.011	-0.128
%RSD		0.000	51.500	856.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.007	86.767%	0.014
%RSD		83.240	1.033	2.099
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.484	0.000	0.000
%RSD		8.768	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.022	0.082	97.334%
%RSD		21.110	5.444	0.433

LV1L1C 2/25/2010 14:17:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		83.757%	93.050	T 9740.000
%RSD		0.496	1.081	T 0.488
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10440.000	M 10200.000	0.000
%RSD		1.869	M 0.891	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 10060.000	10190.000	T 76.135%
%RSD		T 2.144	0.882	T 0.344
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		77.818%	95.620	99.050
%RSD		0.923	1.137	0.515
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		6.147	116.500	11300.000
%RSD		2.788	0.309	1.296
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.400	101.700	102.900
%RSD		0.202	0.882	1.615
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		98.890	74.239%	85.880
%RSD		1.013	0.811	1.217
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.048	79.500	98.900
%RSD		28.580	2.792	1.227
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.800	35.150
%RSD		0.000	0.452	168.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		94.780	80.397%	89.480
%RSD		1.540	0.970	1.452
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.180	0.000	0.000
%RSD		0.218	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		104.700	99.740	89.165%
%RSD		0.119	1.212	0.332

LV03V 2/25/2010 14:23:55 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.525%	6.335	218.000
%RSD		0.519	0.584	0.775
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		6441.000	M 21490.000	0.000
%RSD		0.553	M 1.521	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3523.000	31610.000	T 94.831%
%RSD		T 2.661	0.956	T 0.298
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		95.562%	98.500	88.670
%RSD		0.814	0.560	0.458
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.630	TM 7616.000	TM 329300.000
%RSD		8.244	TM 0.747	TM 1.796
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		61.890	122.800	56.070
%RSD		1.058	2.190	0.649
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 529.500	93.224%	42.400
%RSD		M 2.094	2.614	2.264
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.631	6.718	3.962
%RSD		23.070	4.708	1.708
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.202	-40.710
%RSD		0.000	11.870	19.670
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.648	90.685%	0.917
%RSD		11.660	2.530	3.629
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 348.300	0.000	0.000
%RSD		M 0.823	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.193	103.500	89.858%
%RSD		2.589	0.662	1.246

CCV 3 2/25/2010 14:30:42 QC Status: PASS (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		83.896%	104.388%	┬ 96.423%
%RSD		2.325	1.806	┬1.651
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		103.898%	107.119%	0.000
%RSD		1.088	1.791	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		┬ 105.169%	100.424%	┬ 75.974%
%RSD		┬4.026	2.072	┬0.552
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.129%	101.202%	101.396%
%RSD		1.908	1.167	0.985
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.849	┬ 102.836%	┬ 94.010%
%RSD		15.690	┬0.907	┬0.721
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		101.792%	102.956%	103.033%
%RSD		0.797	0.723	0.730
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.047%	76.713%	102.380%
%RSD		1.371	1.547	1.137
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.171	101.504%	104.815%
%RSD		24.910	2.538	0.850
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	105.827%	116.800
%RSD		0.000	0.722	31.420
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		107.039%	79.284%	103.454%
%RSD		1.370	0.637	1.625
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		103.052%	0.000	0.000
%RSD		0.775	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		107.641%	102.750%	85.162%
%RSD		1.143	0.429	1.141

CCB 3 2/25/2010 14:37:29 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.874%	0.050	34.600
%RSD		1.672	21.060	1.884
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		45.260	7.839	T 0.000
%RSD		41.490	34.680	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		44.340	35.120	T 77.130%
%RSD		4.584	7.633	T 0.449
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.583%	0.045	0.049
%RSD		1.313	393.900	73.060
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.585	0.759	77.330
%RSD		35.400	4.551	32.690
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.105	0.129	0.152
%RSD		32.460	35.400	16.530
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		1.058	82.241%	0.108
%RSD		19.600	1.471	77.270
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.040	-0.009	0.182
%RSD		50.820	1087.000	8.033
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.104	0.190
%RSD		0.000	18.000	177.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.113	83.832%	0.115
%RSD		22.830	0.545	13.780
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.167	0.000	0.000
%RSD		25.270	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.279	0.117	96.806%
%RSD		4.736	20.630	0.142

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

North Canton

Metals Internal Chain of Custody

Date Prepared: 02/24/10 **Prep Analyst:** Lisa Mcgall

Laboratory Sample ID		Lab ID	Method	Analysis Date	Analyst	Instrument
A0B180429	1	LVTQQ	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	1	LVTQQ	SW846 7471A	02/24/10	Roger Toth	H1
A0B180429	2	LVTQ1	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	2	LVTQ1	SW846 7471A	02/24/10	Roger Toth	H1
A0B180429	3	LVTQ2	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	3	LVTQ2	SW846 7471A	02/24/10	Roger Toth	H1
A0B180429	4	LVTQ3	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	4	LVTQ3	SW846 7471A	02/24/10	Roger Toth	H1
A0B180429	6	LVTRC	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	7	LVTRM	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	8	LVTRQ	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	9	LVTTQ	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	10	LVTTW	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	11	LVTTX	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	12	LVTT0	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	12	LVTT0	SW846 7471A	02/24/10	Roger Toth	H1
A0B180429	14	LVTT9	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	14	LVTT9	SW846 7471A	02/24/10	Roger Toth	H1
A0B180429	15	LVTVA	SW846 6020	02/25/10	Karen Counts	I8
A0B180429	15	LVTVA	SW846 7471A	02/24/10	Roger Toth	H1

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

METALS PREPARATION SUMMARY

Preparation Type	Matrix	Amount of Standard added to LCS & MS/MSD		Initial Sample Vol/Wt	Final Sample Volume
		Amount	Standard name		
ICP	water	1 mL 1 mL 1.0 mL	Ag ICP-1 ICP-2A	50 mL	50 mL
ICPMS	water	0.5ml 0.5ml	ICPMS-1 ICPMS-2	50 mL	50 mL
Hg - CVAA	water	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL
Hg - CVAF (low level)	water	0.2 mL (LCS/MS/MSD)	HG ICAL	40 ml	40 ml
ICP	solid	2 mL 2 mL 2 mL	Ag ICP-1 ICP-2A	1.00 +/- .02g	100 mL
ICPMS	solid	1ml 1ml	ICPMS-1 ICPMS-2	1.00 +/- .02g	100ml
Hg - CVAA	solid	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	0.60 +/- .01g	100 mL
ICP	TCLP	1 mL (LCS) 1 mL(LCS)	Ag ICP-1	50 mL	50 mL
ICP	TCLP	0.5 mL(MS/MSD)	TCLP Spike I RCRA	50 mL	50 mL
ICP	TCLP	1 mL(MS/MSD)	TCLP Spike II Non-RCRA	50 mL	50 mL
Hg - CVAA	TCLP	5 mL (LCS) 5 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL

Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.0002 ppm		0.2 mL	HG-2	0.1 ppm
0.0005 ppm		0.5 mL	HG-2	0.1 ppm
0.001 ppm		1 mL	HG-2	0.1 ppm
0.005 ppm		5 mL	HG-2	0.1 ppm
0.010 ppm		10 mL	HG-2	0.1 ppm
ICV Preparation				
0.0025 ppm		2.5 mL	HG-1	0.1 ppm
CCV Preparation:				
0.005 ppm		5 mL	HG-2	0.1 ppm

Low Level Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.5 ppt		20 ul	HG ICAL	1.0 ppb
1.0 ppt		40 ul	HG ICAL	1.0 ppb
2 ppt		80 ul	HG ICAL	1.0 ppb
5 ppt		200 ul	HG ICAL	1.0 ppb
10 ppt		400 ul	HG ICAL	1.0 ppb
25 ppt		1000 ul	HG ICAL	1.0 ppb
ICV Preparation				
5 ppt		200 ul	HG ICV	1.0 ppb
CCV Preparation:				
5 ppt		200 ul	HG ICAL	1.0 ppb

SPIKING STANDARD DEFINITIONS

Elements	Ag	ICP-1	ICP-2A	ICPMS-1	ICPMS-2	HG-1	HG-2	HG ICAL	HG ICV	TCLP Spike I	TCLP Spike II
Ag	2.5 ppm			10ppm						100 ppm	
Al		100 ppm			1000ppm						100 ppm
As		100 ppm		10ppm						500 ppm	
Ba		100 ppm		10ppm						5000 ppm	
Be		2.5 ppm		10ppm							2.5 ppm
Cd		2.5 ppm		10ppm						100 ppm	
Ca			2500 ppm		1000ppm						
Co		25 ppm		10ppm							25 ppm
Cr		10 ppm		10ppm						500 ppm	
Cu		12.5 ppm		10ppm							12.5 ppm
Fe		50 ppm			1000ppm						50 ppm
Hg						0.1 ppm	0.1 ppm	1.0 ppb	1.0 ppb		
K			2500 ppm		1000ppm						
Mg			2500 ppm		1000ppm						
Mn		25 ppm		10ppm							25 ppm
Na			2500 ppm		1000ppm						
Ni		25 ppm		10ppm							25 ppm
Pb		25 ppm		10ppm						500 ppm	
Sb		25 ppm		10ppm							25 ppm
Se		100 ppm		10ppm						100 ppm	
Tl		100 ppm		10ppm							100 ppm
V		25 ppm		10ppm							25 ppm
Zn		25 ppm		10ppm							25 ppm
B		50 ppm		10ppm							50 ppm
Sr		50 ppm		10ppm							
Mo		50 ppm		10ppm							50 ppm
W		50 ppm		10ppm							
Sn		100 ppm		10ppm							100 ppm
Zr		50 ppm		10ppm							
Ti		50 ppm		10ppm							

Test America North Canton
Revised 4/5/02
N:\Metals\Preplog.xls

DATE: 2.24.10

METALS PREPARATION REAGENTS/STANDARDS

Reagents and Standards listed on this form are used for the entire day's prep batches unless otherwise noted on the individual prep log.

REAGENT NAME	REAGENT NUMBER
1:1 HNO_3 (nitric acid)	OMR123
1:1 HCl (hydrochloric acid)	OMR77
HNO_3 (nitric acid)	OMR100
HCl (hydrochloric acid)	OMR102
$KMnO_4$ (potassium permanganate)	OMR94
$K_2S_2O_8$ (potassium persulfate)	OMR97
H_2O_2 (hydrogen peroxide)	9MR782
H_2SO_4 (sulfuric acid)	OMR91
HCl/HNO_3 (aqua regia)	OMR124

STANDARD NAME	STANDARD/LOT NUMBER
ICP-1	OA17
ICP-2A	OA46
RCRA	———
non-RCRA	———
Ag	OB82
Hg	OB95
ICPMS-1	HPS0928714A HPS0928716B
ICPMS-2	HPS0930821

Filter Paper Lot #
K 11589107 A

Waters

Hg time in the water bath (HB1) ———
Hg time out of the water bath (HB1) ———

Solids

Hg time in the water bath (HB1) 11:15
Hg time out of the water bath (HB1) 11:45

Times listed are for the waters and solids for that day unless otherwise noted.

All solid batches were weighed on balance number B030 unless otherwise noted.

Daily Batch Level II Lisa McGee

Hg Standard Curve Preparation Summary

Date: 2.24.10

Time In: 8:30 > SOLID

Time Out: 9:00

H2O

11:30

1:30

Standard Concentrations	Standard Numbers
S0	
0.2 ppb	
CRA - 0.2 ppb	
0.5 ppb	
1.0 ppb	STD 0B96
5.0 ppb	
10.0 ppb	
CCV - 5.0 ppb	
CCB	
ICV - 2.5 ppb	STD 0B95
ICB	

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GENERAL CHEMISTRY DATA

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SAMPLE DATA

Science Applications International Corp

Client Sample ID: B12SS-036M-5038-SO

General Chemistry

Lot-Sample #...: A0B180429-001 **Work Order #...:** LVTQQ **Matrix.....:** SO
Date Sampled...: 02/16/10 10:30 **Date Received..:** 02/17/10
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: B12SS-037M-5039-SO

General Chemistry

Lot-Sample #...: A0B180429-002 **Work Order #...:** LVTQ1 **Matrix.....:** SO
Date Sampled...: 02/16/10 14:17 **Date Received..:** 02/17/10
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: B12SS-037M-6049-FD

General Chemistry

Lot-Sample #...: A0B180429-003 **Work Order #...:** LVTQ2 **Matrix.....:** SO
Date Sampled...: 02/16/10 14:17 **Date Received..:** 02/17/10
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

General Chemistry

Lot-Sample #...: A0B180429-004 **Work Order #...:** LVTQ3 **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	**0.87 B,J**	**5.1**	**mg/kg**	**MCAWW 353.2**	**02/25-03/01/10**	**0056149**
		Dilution Factor: 1		MDL.....: 0.79		
Percent Solids	**98.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO(VOC)

General Chemistry

Lot-Sample #...: A0B180429-005 **Work Order #...:** LVTQ4 **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
% Moisture.....: 30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**69.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
	Dilution Factor: 1			MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: B12SS-033-5041-SO

General Chemistry

Lot-Sample #...: A0B180429-006 **Work Order #...:** LVTRC **Matrix.....:** SO
Date Sampled...: 02/16/10 14:50 **Date Received..:** 02/17/10
% Moisture.....: 31

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	1.2	mg/kg	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1		MDL.....: 0.39		
Percent Solids	**68.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: B12SS-034-5042-SO

General Chemistry

Lot-Sample #...: A0B180429-007 **Work Order #...:** LVTRM **Matrix.....:** SO
Date Sampled...: 02/16/10 15:00 **Date Received..:** 02/17/10
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	1.1	mg/kg	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1		MDL.....: 0.35		
Percent Solids	**76.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: B12SS-035-5043-SO

General Chemistry

Lot-Sample #...: A0B180429-008 **Work Order #...:** LVTRQ **Matrix.....:** SO
Date Sampled...: 02/16/10 14:50 **Date Received..:** 02/17/10
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**0.39 J**	**1.0**	**mg/kg**	**SW846 7196A**	**02/24-02/25/10**	**0054270**
	Dilution Factor: 1			MDL.....: 0.34		
Percent Solids	**79.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
	Dilution Factor: 1			MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

J Estimated result: result is less than RL and greater than or equal to the MDL.

Science Applications International Corp

Client Sample ID: ATASS-012-5033-SO

General Chemistry

Lot-Sample #...: A0B180429-009 **Work Order #...:** LVTTQ **Matrix.....:** SO
Date Sampled...: 02/17/10 12:35 **Date Received..:** 02/17/10
% Moisture.....: 22

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**1.1**	**1.0**	**mg/kg**	**SW846 7196A**	**02/24-02/25/10**	**0054270**
		Dilution Factor: 1		MDL.....: 0.35		
Percent Solids	**77.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASS-013-5034-SO

General Chemistry

Lot-Sample #...: A0B180429-010 **Work Order #...:** LVTTW **Matrix.....:** SO
Date Sampled...: 02/17/10 12:20 **Date Received..:** 02/17/10
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	1.0	mg/kg	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1		MDL.....: 0.34		
Percent Solids	**78.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASS-014-5035-SO

General Chemistry

Lot-Sample #...: A0B180429-011 **Work Order #...:** LVTTX **Matrix.....:** SO
Date Sampled...: 02/17/10 12:10 **Date Received..:** 02/17/10
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.93	mg/kg	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1		MDL.....: 0.31		
Percent Solids	**86.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

General Chemistry

Lot-Sample #...: A0B180429-012 **Work Order #...:** LVTT0 **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	**2.4 B,J**	**5.1**	**mg/kg**	**MCAWW 353.2**	**02/25-03/01/10**	**0056149**
		Dilution Factor: 1		MDL.....: 0.80		
Percent Solids	**98.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO(VOCS)

General Chemistry

Lot-Sample #...: A0B180429-013 **Work Order #...:** LVTT7 **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
% Moisture.....: 25

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**74.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: ATASS-016M-5037-SO

General Chemistry

Lot-Sample #...: A0B180429-014 **Work Order #...:** LVTT9 **Matrix.....:** SO
Date Sampled...: 02/17/10 10:45 **Date Received..:** 02/17/10
% Moisture.....: 2.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**97.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**
	Dilution Factor: 1			MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: ATASS-016M-6047-FD

General Chemistry

Lot-Sample #...: A0B180429-015 **Work Order #...:** LVTVA **Matrix.....:** SO
Date Sampled...: 02/17/10 10:45 **Date Received..:** 02/17/10
% Moisture.....: 2.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**97.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**

Dilution Factor: 1 MDL.....: 10.0

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV3X21AE		MB Lot-Sample #:	A0B230000-270	
	ND	0.80	mg/kg	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1				
Nitrocellulose		Work Order #: LV3EQ1AA		MB Lot-Sample #:	G0B250000-149	
	0.80 B	**5.0**	**mg/kg**	**MCAWW 353.2**	**02/25-03/01/10**	**0056149**
		Dilution Factor: 1				
Percent Solids		Work Order #: LVWJA1AA		MB Lot-Sample #:	A0B190000-250	
	ND	10.0	%	MCAWW 160.3 MOD	02/19-02/20/10	0050250
		Dilution Factor: 1				
Percent Solids		Work Order #: LV2781AA		MB Lot-Sample #:	A0B250000-091	
	ND	10.0	%	MCAWW 160.3 MOD	02/25-02/26/10	0056091
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV3X21AF	LCS Lot-Sample#: A0B230000-270		
	106	(80 - 120)	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1			
Nitrocellulose		Work Order #: LV3EQ1AC	LCS Lot-Sample#: G0B250000-149		
	67	(34 - 115)	MCAWW 353.2	02/25-03/01/10	0056149
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV3X21AF		LCS Lot-Sample#: A0B230000-270			
	20.0	21.1	mg/kg	106	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1					
Nitrocellulose		Work Order #: LV3EQ1AC		LCS Lot-Sample#: G0B250000-149			
	50.9	34.2	mg/kg	67	MCAWW 353.2	02/25-03/01/10	0056149
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/15/10 15:10 **Date Received..:** 02/16/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 31	
Nitrocellulose		WO#: LVQVK1CF-MS/LVQVK1CG-MSD				MS Lot-Sample #: A0B160474-004	
	34	(34 - 115)			MCAWW 353.2	02/25-03/01/10	0056149
	32 N	(34 - 115)	5.2	(0-71)	MCAWW 353.2	02/25-03/01/10	0056149
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/15/10 15:10 **Date Received..:** 02/16/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
							% Moisture.....: 31		
Nitrocellulose			WO#: LVQVK1CF-MS/LVQVK1CG-MSD				MS Lot-Sample #: A0B160474-004		
	1.2	73.1	25.7	mg/kg	34		MCAWW 353.2	02/25-03/01/10	0056149
	1.2	73.4	24.4 N	mg/kg	32	5.2	MCAWW 353.2	02/25-03/01/10	0056149
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Work Order #...:** LVR2L-SMP **Matrix.....:** SOLID
LVR2L-DUP
Date Sampled...: 02/16/10 13:24 **Date Received..:** 02/17/10
% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B170490-005		
	82.5	81.9	%	0.83	(0-20)	MCAWW 160.3 MOD	02/19-02/20/10	0050250

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Work Order #...:** LVTT7-SMP **Matrix.....:** SO
LVTT7-DUP
Date Sampled...: 02/16/10 12:00 **Date Received..:** 02/17/10
% Moisture.....: 25

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B180429-013		
	74.6	77.8	%	4.1	(0-20)	MCAWW 160.3 MOD	02/19-02/20/10	0050250

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Work Order #...:** LT58G-SMP **Matrix.....:** SOLID
LT58G-DUP
Date Sampled...: 01/28/10 **Date Received..:** 02/01/10
% Moisture.....: 25

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B030504-014		
	75.4	75.7	%	0.51	(0-20)	MCAWW 160.3 MOD	02/25-02/26/10	0056091

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Work Order #...:** LV1X2-SMP **Matrix.....:** SOLID
LV1X2-DUP
Date Sampled...: 02/23/10 08:45 **Date Received..:** 02/24/10
% Moisture.....: 21

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B240423-001		
	78.9	77.4	%	2.0	(0-20)	MCAWW 160.3 MOD	02/25-02/26/10	0056091

Dilution Factor: 1

TestAmerica
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SUPPORTIVE RAW DATA

			TestAmerica, North Canton			
		Percent Total Solid/Percent Moisture Logsheet				
		Method 160.3, 160.5, D2216-90, D1553-83				
Analysis	TS			Batch		50250
Prep Date	2/19/2010	Time In	2:45	Analyst	6531	WETCHEM
					BW	
Anal date	2/20/2010	Time Out	8:45	RL	10	
Oven	**2**	Balance	**6**	Due Date:	**3/3/2010**	

Sample	Tare	Wet	Dry	Result TS	Result MS	Time
ID	wt	wt	wt	%	%	
BLANK	4.6084	4.6616	4.6500	1.77	ND	10:37
LVR2G1AA	4.6084	19.7407	17.8519	87.518	12.482	10:37
LVR2H1AA	4.6084	11.2529	9.5105	73.777	26.223	10:37
LVR2J1AA	4.6084	8.6606	7.4375	69.816	30.184	10:37
LVR2K1AA	4.6084	9.7742	8.3825	73.059	26.941	10:38
LVR2L1AA	4.6084	11.1609	10.0167	82.538	17.462	10:38
LVR2L1AM X	4.6084	10.5543	9.4757	81.860	18.140	10:38
LVR2P1AA	4.6084	10.2790	9.5982	87.994	12.006	10:38
LVR2T1AA	4.6084	10.5375	9.7949	87.475	12.525	10:38
LVR2V1AA	4.6084	11.0875	10.4783	90.597	9.403	10:39
LVTQ41AA	4.6084	20.9982	16.0006	69.508	30.492	10:39
LVTRC1AA	4.6084	23.4261	17.5113	68.568	31.432	10:39
LVTRM1AA	4.6084	26.4920	21.2754	76.162	23.838	10:39
LVTRQ1AA	4.6084	19.8130	16.6544	79.226	20.774	10:39
LVTTQ1AA	4.6084	19.9899	16.5717	77.777	22.223	10:40
LVTTW1AA	4.6084	15.2683	13.0061	78.778	21.222	10:40
LVTTX1AA	4.6084	16.6863	15.0523	86.471	13.529	10:40
LVTT71AA	4.6084	18.3156	14.8396	74.641	25.359	10:40
LVTT71AD X	4.6084	18.1988	15.1770	77.765	22.235	10:40
LVVFK1AA	4.6084	16.7833	12.4876	64.717	35.283	10:40
LVVF11AM	4.6084	19.6794	15.3605	71.343	28.657	10:41
LVVF61AM	4.6084	17.5371	12.4891	60.955	39.045	10:41
	4.6084			100.000	0.000	

TestAmerica, North Canton

3060A/7196A Cr+6 Solid Logsheet

Analysis	CR+6 - Soils	Batch	0054269/70/1		Spectrophotometer			
					SPEC 20			
Prep Date	02/24/10	Lcs No.	HX00329					
					Wavelength			
Anal Date	02/25/10	Lcs Prep	2/23/2010		540			
		Date			RL			
Analyst	JM	Balance ID:	23		0.8 MG/KG			
Std No	Conc	ABS						
NA	0	0		Slope	0.6029			
HX00322	0.01	0.003		Intercept	0.0008			
HX00323	0.02	0.009		r	0.9989			
HX00324	0.10	0.052						
HX00325	0.25	0.161						
HX00326	0.50	0.321						
HX00327	1.00	0.593						
						Curve units mg/L		
Sample No	**ABS**	**Sample Vol**	**Final Vol**	**Dil**	**Final Conc**			
		in g	**in ml**		**in mg/kg**			
ICV	0.309	2.5	100	1	20.4477		HX00328	
BLK S	0.000	2.5	100	1	-0.0519			
Blank	0.000	2.5	100	1	-0.0519			
LCS - Sol	0.319	2.5	100	1	21.1111	TV=20	HX00329	
LCS - InSol	0.302	2.5	100	50	999.1642	TV=644	HX00330	
Sample No	**Sample Abs.**	**Bgk Abs**	**Corr Abs**	**Spk Amt**	**Curve Info**			**MSA Conc.**
CCV	0.309	2.5	100	1	20.4477			**in mg/kg**
CCB	0.000	2.5	100	1	-0.0519			
LVWTG	0.009	0.000	0.009	0.00	Slope	0.01392		0.4460
	0.016	0.000	0.016	0.80	Intercept	0.00621		
	0.060	0.000	0.060	4.00	r	0.99987		
	0.285	0.000	0.285	20.00				
LVWTH	0.005	0.000	0.005	0.00	Slope	0.01217		0.9872
	0.023	0.000	0.023	0.80	Intercept	0.01202		

	0.071	0.003	0.068	4.00	r	0.99864		
	0.257	0.003	0.254	20.00				
CCV	0.308	2.5	100	1	20.3813			
CCB	0.000	2.5	100	1	-0.0519			
LVWTJ	0.023	0.001	0.022	0.00	Slope	0.01338		3.5334
	0.064	0.004	0.060	0.80	Intercept	0.04728	CLOUDY	
	0.130	0.000	0.130	4.00	r	0.98413	SEE BELOW	
	0.309	0.000	0.309	20.00				
LVWTK	0.007	0.007	0.000	0.00	Slope	0.01487		0.1726
	0.021	0.003	0.018	0.80	Intercept	0.00257		
	0.062	0.001	0.061	4.00	r	0.99983		
	0.3	0.000	0.300	20.00				
CCV	0.289	2.5	100	1	19.1208			
CCB	0.001	2.5	100	1	0.0145			
LVTRC	0.009	0.007	0.002	0	Slope	0.01552		0.4645
	0.018	0.005	0.013	0.8	Intercept	-0.00721		
	0.044	0.01	0.034	4	r	0.99533	SEE BELOW	
	0.307	0	0.307	20				
LVTRM	0.013	0.009	0.004	0	Slope	0.01396		0.0216
	0.011	0	0.011	0.8	Intercept	-0.00030		
	0.057	0.007	0.050	4	r	0.99951		
	0.28	0	0.280	20				
CCV	0.295	2.5	100.000	1	19.5189			
CCB	0.002	2.5	100.000	1	0.0808			
LVTRQ	0.001	0	0.001	0	Slope	0.01437		0.3059
	0.016	0	0.016	0.8	Intercept	0.00440		
	0.066	0	0.066	4	r	0.99973		
	0.291	0	0.291	20				
LVTTQ	0.004	0.001	0.003	0	Slope	0.00929		0.8270
	0.014	0	0.014	0.8	Intercept	0.00768		
	0.054	0.002	0.052	4	r	0.99831		
	0.2	0.008	0.192	20				
CCV	0.299	2.5	100.000	1	19.7843			
CCB	0.001	2.5	100.000	1	0.0145			
LVTTW	0	0	0.000	0	Slope	0.01444		0.1046
	0.012	0	0.012	0.8	Intercept	-0.00151		
	0.052	0	0.052	4	r	0.99977		
	0.288	0	0.288	20				
LVTTX	0.004	0.005	-0.001	0	Slope	0.01572		0.2509
	0.013	0	0.013	0.8	Intercept	-0.00394		
	0.05	0	0.050	4	r	0.99915		
	0.312	0	0.312	20				
CCV	0.292	2.5	100.000	1	19.3199			

CCB	0.001	2.5	100.000	1	0.0145			
LVWX6	0.01	0	0.010	0	Slope	0.00970		1.5281
	0.019	0	0.019	0.8	Intercept	0.01483		
	0.064	0	0.064	4	r	0.99704		
	0.212	0.005	0.207	20				
LVWOA	0.036	0	0.036	0	Slope	0.00801		4.5027
	0.036	0	0.036	0.8	Intercept	0.03608		
	0.087	0.011	0.076	4	r	0.99688		
	0.196	0.001	0.195	20				
CCV	0.296	2.5	100.000	1	19.5852			
CCB	0.001	2.5	100.000	1	0.0145			
LVWOD	0.031	0.004	0.027	0	Slope	0.01271		2.4153
	0.021	0	0.021	0.8	Intercept	0.03070	CLOUDY	
	0.152	0.042	0.110	4	r	0.98569	SEE BELOW	
	0.283	0.003	0.280	20				
LVWOE	0.025	0.007	0.018	0	Slope	0.00999		2.8812
	0.047	0.005	0.042	0.8	Intercept	0.02879		
	0.102	0.026	0.076	4	r	0.99624		
	0.236	0.009	0.227	20				
CCV	0.289	2.5	100.000	1	19.1208			
CCB	0.001	2.5	100.000	1	0.0145			
LVWOF	0.057	0.026	0.031	0	Slope	0.00851		6.3514
	0.121	0.067	0.054	0.8	Intercept	0.05402	YELLOW	
	0.193	0.068	0.125	4	r	0.95138	SEE BELOW	
	0.222	0.005	0.217	20				
LVWOG	0.004	0	0.004	0	Slope	0.01275		0.0059
	0.022	0.007	0.015	0.8	Intercept	-0.00008		
	0.041	0.001	0.040	4	r	0.99809		
	0.257	0	0.257	20				
CCV	0.292	2.5	100.000	1	19.3199			
CCB	0.002	2.5	100.000	1	0.0808			
LVWOH	0.002	0	0.002	0	Slope	0.01223		0.5462
	0.021	0	0.021	0.8	Intercept	0.00668		
	0.056	0	0.056	4	r	0.99946		
	0.251	0	0.251	20				
LVWOJ	0.238	0.213	0.025	0	Slope	0.00081		26.0400
	0.1	0.079	0.021	0.8	Intercept	0.02100	YELLOW	
	0.088	0.068	0.020	4	r	0.91101	SEE BELOW	
	0.133	0.095	0.038	20				
CCV	0.29	2.5	100.000	1	19.1872			
CCB	0.002	2.5	100.000	1	0.0808			
LVVGR	0	0	0.000	0	Slope	0.01699		0.2709
	0.012	0	0.012	0.8	Intercept	-0.00460		
	0.061	0.007	0.054	4	r	0.99920		

	0.337	0	0.337	20				
LVVGW	0	0	0.000	0	Slope	0.01543		0.0440
	0.016	0	0.016	0.8	Intercept	-0.00068		
	0.055	0	0.055	4	r	0.99955		
	0.309	0	0.309	20				
CCV	0.289	2.5	100.000	1	19.1208			
CCB	0.002	2.5	100.000	1	0.0808			
LVWOD	0.027	2.5	100.000	1	1.7394			
LVWOF	0.031	2.5	100.000	1	2.0047			
LVWOJ	0.025	2.5	100.000	1	1.6067			
LVWTJ	0.022	2.5	100.000	1	1.4077			
LVTRC	0.002	2.5	100.000	1	0.0808			
		2.5	100.000	1	-0.0519			
		2.5	100.000	1	-0.0519			
		2.5	100.000	1	-0.0519			
		2.5	100.000	1	-0.0519			
CCV	0.29	2.5	100.000	1	19.1872			
CCB	0.001	2.5	100.000	1	0.0145			

TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): Cr+6

Batch(es): 0054269/1011

Method #/SOP#: 7196A

Review Items	Level I Review			Level II Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?	✓			✓		
2. Calibration curve consist of the minimum number of calibration standards?	✓			✓		
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	✓			✓		
4. ICB analyzed immediately after ICV and within criteria (± RL)?	✓			✓		
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	✓			✓		
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?	✓			✓		
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?	✓			✓		✓
2. All reported results bracketed by in control QC ?	✓			✓		
3. Sample analyses done within holding time ?	✓			✓		
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	✓			✓		
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	✓			✓		
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?			✓			✓
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?			✓			✓
E. Titrant						
1. Titrant standardized?			✓			✓
2. If no, standardization expires						✓
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?			✓			✓
2. Calculations checked for error ?	✓			✓		
3. Transcriptions checked for error ?	✓			✓		
4. All client/project specific requirements met ?	✓			✓		
5. Date/time of preparation and analysis verified as correct ?	✓			✓		
6. Units verified as correct?	✓			✓		
7. Dilutions have been properly applied and RL's adjusted appropriately?			✓			✓
8. SOP followed?	✓			✓		
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?			✓	✓		
10. All reagent and standard numbers recorded in logbook?	✓			✓		
11. Edits dated and initialed	✓			✓		

Comment on any "NO" response(s):

Level I reviewer: JM Date: 2/25/10

Level II Reviewer: CL/SS Date: 2/25/10

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Corporate Policy, QA-012
Revision date: 08/25/00

TestAmerica, North Canton

3060A/7196A Cr+6 Solid Logsheet

Analysis	CR+6 - Soils	Batch	0054269/70/1		Spectrophotometer			
					SPEC 20			
Prep Date	02/24/10	Lcs No.	HX00329					
					Wavelength			
Anal Date	02/25/10	Lcs Prep	2/23/2010		540			
		Date			RL			
Analyst	JM	Balance ID:	23		0.8 MG/KG			
Std No	Conc	ABS						
NA	0	0		Slope	0.6029			
HX00322	0.01	0.003		Intercept	0.0008			
HX00323	0.02	0.009		r	0.9989			
HX00324	0.10	0.052						
HX00325	0.25	0.161						
HX00326	0.50	0.321						
HX00327	1.00	0.593						
						Curve units mg/L		
Sample No	**ABS**	**Sample Vol**	**Final Vol**	**Dil**	**Final Conc**			
		in g	**in ml**		**in mg/kg**			
ICV	0.309	2.5	100	1	20.4477		HX00328	
BLK S	0.000	2.5	100	1	-0.0519			
Blank	0.000	2.5	100	1	-0.0519			
LCS - Sol	0.319	2.5	100	1	21.1111	TV=20	HX00329	
LCS - InSol	0.302	2.5	100	50	999.1642	TV=644	HX00330	
Sample No	**Sample Abs.**	**Bgk Abs**	**Corr Abs**	**Spk Amt**	**Curve Info**			**MSA Conc.**
CCV	0.309	2.5	100	1	20.4477			**in mg/kg**
CCB	0.000	2.5	100	1	-0.0519			
LVWTG	0.009	0.000	0.009	0.00	Slope	0.01392		0.4460
	0.016	0.000	0.016	0.80	Intercept	0.00621		
	0.060	0.000	0.060	4.00	r	0.99987		
	0.285	0.000	0.285	20.00				
LVWTH	0.005	0.000	0.005	0.00	Slope	0.01217		0.9872
	0.023	0.000	0.023	0.80	Intercept	0.01202		

	0.071	0.003	0.068	4.00	r	0.99864		
	0.257	0.003	0.254	20.00				
CCV	0.308	2.5	100	1	20.3813			
CCB	0.000	2.5	100	1	-0.0519			
LVWTJ	0.023	0.001	0.022	0.00	Slope	0.01338		3.5334
	0.064	0.004	0.060	0.80	Intercept	0.04728	CLOUDY	
	0.130	0.000	0.130	4.00	r	0.98413	SEE BELOW	
	0.309	0.000	0.309	20.00				
LVWTK	0.007	0.007	0.000	0.00	Slope	0.01487		0.1726
	0.021	0.003	0.018	0.80	Intercept	0.00257		
	0.062	0.001	0.061	4.00	r	0.99983		
	0.3	0.000	0.300	20.00				
CCV	0.289	2.5	100	1	19.1208			
CCB	0.001	2.5	100	1	0.0145			
LVTRC	0.009	0.007	0.002	0	Slope	0.01552		0.4645
	0.018	0.005	0.013	0.8	Intercept	-0.00721		
	0.044	0.01	0.034	4	r	0.99533		
	0.307	0	0.307	20				
LVTRM	0.013	0.009	0.004	0	Slope	0.01396		0.0216
	0.011	0	0.011	0.8	Intercept	-0.00030		
	0.057	0.007	0.050	4	r	0.99951		
	0.28	0	0.280	20				
CCV	0.295	2.5	100.000	1	19.5189			
CCB	0.002	2.5	100.000	1	0.0808			
LVTRQ	0.001	0	0.001	0	Slope	0.01437		0.3059
	0.016	0	0.016	0.8	Intercept	0.00440		
	0.066	0	0.066	4	r	0.99973		
	0.291	0	0.291	20				
LVTTQ	0.004	0.001	0.003	0	Slope	0.00929		0.8270
	0.014	0	0.014	0.8	Intercept	0.00768		
	0.054	0.002	0.052	4	r	0.99831		
	0.2	0.008	0.192	20				
CCV	0.299	2.5	100.000	1	19.7843			
CCB	0.001	2.5	100.000	1	0.0145			
LVTTW	0	0	0.000	0	Slope	0.01444		0.1046
	0.012	0	0.012	0.8	Intercept	-0.00151		
	0.052	0	0.052	4	r	0.99977		
	0.288	0	0.288	20				
LVTTX	0.004	0.005	-0.001	0	Slope	0.01572		0.2509
	0.013	0	0.013	0.8	Intercept	-0.00394		
	0.05	0	0.050	4	r	0.99915		
	0.312	0	0.312	20				
CCV	0.292	2.5	100.000	1	19.3199			

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North Canton

CCB	0.001	2.5	100.000	1	0.0145			
LVWX6	0.01	0	0.010	0	Slope	0.00970		1.5281
	0.019	0	0.019	0.8	Intercept	0.01483		
	0.064	0	0.064	4	r	0.99704		
	0.212	0.005	0.207	20				
LVWOA	0.036	0	0.036	0	Slope	0.00801		4.5027
	0.036	0	0.036	0.8	Intercept	0.03608		
	0.087	0.011	0.076	4	r	0.99688		
	0.196	0.001	0.195	20				
CCV	0.296	2.5	100.000	1	19.5852			
CCB	0.001	2.5	100.000	1	0.0145			
LVWOD	0.031	0.004	0.027	0	Slope	0.01271		2.4153
	0.021	0	0.021	0.8	Intercept	0.03070	CLOUDY	
	0.152	0.042	0.110	4	r	0.98569	SEE BELOW	
	0.283	0.003	0.280	20				
LVWOE	0.025	0.007	0.018	0	Slope	0.00999		2.8812
	0.047	0.005	0.042	0.8	Intercept	0.02879		
	0.102	0.026	0.076	4	r	0.99624		
	0.236	0.009	0.227	20				
CCV	0.289	2.5	100.000	1	19.1208			
CCB	0.001	2.5	100.000	1	0.0145			
LVWOF	0.057	0.026	0.031	0	Slope	0.00851		6.3514
	0.121	0.067	0.054	0.8	Intercept	0.05402	YELLOW	
	0.193	0.068	0.125	4	r	0.95138	SEE BELOW	
	0.222	0.005	0.217	20				
LVWOG	0.004	0	0.004	0	Slope	0.01275		0.0059
	0.022	0.007	0.015	0.8	Intercept	-0.00008		
	0.041	0.001	0.040	4	r	0.99809		
	0.257	0	0.257	20				
CCV	0.292	2.5	100.000	1	19.3199			
CCB	0.002	2.5	100.000	1	0.0808			
LVWOH	0.002	0	0.002	0	Slope	0.01223		0.5462
	0.021	0	0.021	0.8	Intercept	0.00668		
	0.056	0	0.056	4	r	0.99946		
	0.251	0	0.251	20				
LVWOJ	0.238	0.213	0.025	0	Slope	0.00081		26.0400
	0.1	0.079	0.021	0.8	Intercept	0.02100	YELLOW	
	0.088	0.068	0.020	4	r	0.91101	SEE BELOW	
	0.133	0.095	0.038	20				
CCV	0.29	2.5	100.000	1	19.1872			
CCB	0.002	2.5	100.000	1	0.0808			
LVVGR	0	0	0.000	0	Slope	0.01699		0.2709
	0.012	0	0.012	0.8	Intercept	-0.00460		
	0.061	0.007	0.054	4	r	0.99920		

	0.337	0	0.337	20				
LVVGW	0	0	0.000	0	Slope	0.01543		0.0440
	0.016	0	0.016	0.8	Intercept	-0.00068		
	0.055	0	0.055	4	r	0.99955		
	0.309	0	0.309	20				
CCV	0.289	2.5	100.000	1	19.1208			
CCB	0.002	2.5	100.000	1	0.0808			
LVWTJ	0.169	2.5	100.000	1	11.1599			
LVWOD	0.027	2.5	100.000	1	1.7394			
LVWOF	0.031	2.5	100.000	1	2.0047			
LVWOJ	0.025	2.5	100.000	1	1.6067			
LVWTJ	0.022	2.5	100.000	1	1.4077			
		2.5	100.000	1	-0.0519			
		2.5	100.000	1	-0.0519			
		2.5	100.000	1	-0.0519			
		2.5	100.000	1	-0.0519			
		2.5	100.000	1	-0.0519			
CCV	0.29	2.5	100.000	1	19.1872			
CCB	0.001	2.5	100.000	1	0.0145			

TESTAMERICA, NORTH CANTON

Cr+6 Solid Weight Sheet

Analyst(s): AMM

Batch No: 0054269 | 70 | 71

Weigh Date: 2/23/10

Balance ID: B023

Prep Date: 2/24/10

Anal. Date: 2/25/10

Time On: 2:30

Time Off: 3:30

Sample No.	Wt. 1 (g)	Wt. 2 (g)	Wt. 3 (g)	Wt. 4 (g)
LVWTG	2.52	2.53	2.50	2.53
LVWTH	2.49	2.48	2.52	2.49
LVWTJ	2.51	2.53	2.48	2.51
LVWTK	2.47	2.49	2.53	2.52
LVTRC	2.52	2.50	2.45	2.53
LVTRM	2.46	2.46	2.51	2.53
LVTRQ	2.50	2.54	2.53	2.46
LVTTQ	2.48	2.54	2.49	2.46
LVTTW	2.53	2.46	2.53	2.50
LVTTX	2.50	2.53	2.49	2.53
LVWX6	2.48	2.51	2.51	2.50
LVWOA	2.51	2.54	2.52	2.49
LVWOD	2.47	2.51	2.47	2.53
LVWOE	2.49	2.52	2.54	2.50
LVWOF	2.48	2.53	2.51	2.52
LVWOG	2.52	2.49	2.50	2.48
LVWOH	2.51	2.50	2.52	2.48
LVWOJ	2.46	2.48	2.47	2.47
LVVGR	2.49	2.48	2.50	2.51
LVVGW	2.47	2.47	2.52	2.48

TestAmerica, North Canton
Hexachrome Solid Reagent and Standard Sheet

Date: 2/24/2010

Analyst: jm

Reagent Name	Reagent Number
Alkaline Buffer Reagent:	WR00133 137
Phosphate Buffer:	WR00131.136
Magnesium Chloride:	WR91280
Ottawa Sand:	WR70439
Color Reagent:	WR00158
H2SO4:	WR00140

Conc.	Standard #
0.01:	HX00322
0.02:	HX00323
0.10:	HX00324
0.25:	HX00325
0.50:	HX00326
1.00:	HX00327
CCV:	HX00328
LCS:	HX00329
LCS-S:	HX00330

			TestAmerica, North Canton					
		Percent Total Solid/Percent Moisture Logsheet						
		Method 160.3, 160.5, D2216-90, D1553-83						
Analysis	TS			Batch		56091		
Prep Date	2/25/2010	Time In	11:10	Analyst	BW	WETCHEMNC		
					SS			
Anal date	2/26/2010	Time Out	7:00	RL	10			
Oven	**2**	Balance	**6**	Due Date:	**2/16/2010**			
Sample	Tare	Wet	Dry	Result TS	Result MS	Time	comments	
ID	wt	wt	wt	%	%			
BLANK	4.586	4.5640	4.5543	0.73	ND	9:56		
LT57H1A3	4.586	12.6117	10.5563	74.390	25.610	9:56		
LT5781AW	4.586	16.2104	13.0110	72.477	27.523	9:56		
LT58G1AW	4.586	11.9685	10.1497	75.363	24.637	9:56		
LT58G1AX X	4.586	9.2475	8.1169	75.746	24.254	9:57		
LV1X21AA	4.586	14.0965	12.0882	78.883	21.117	9:57		
LV1X21AL X	4.586	9.4950	8.3833	77.354	22.646	9:57		
LV16A1AA	4.586	17.2321	14.5271	78.610	21.390	9:57	TRAY	
LV10K	4.586	22.4562	19.9238	85.829	14.171	10:00	LV10K	
LV22D	4.586	12.8601	11.0680	78.341	21.659	10:01	LV22D	
LV22Q	4.586	14.1061	11.8639	76.448	23.552	10:01	LV22Q	
LV22W	4.586	20.0272	16.6230	77.954	22.046	10:01	LV22W	
LV220	4.586	16.7041	14.0229	77.874	22.126	10:01	LV220	
LVTQQ	4.586	11.3935	11.2622	98.071	1.929	10:01	LVTQQ	
LVTQ1	4.586	12.0355	11.8853	97.984	2.016	10:02	LVTQ1	
LVTQ2	4.586	11.2713	11.1367	97.987	2.013	10:02	LVTQ2	
LVTQ3	4.586	12.0910	11.9503	98.125	1.875	10:02	LVTQ3	
LVTT0	4.586	13.2183	13.0556	98.115	1.885	10:02	LVTT0	
LVTT9	4.586	12.6007	12.4306	97.878	2.122	10:02	LVTT9	
LVTVA	4.586	13.2592	13.0782	97.913	2.087	10:03	LVTVA	
LV2M9	4.586	10.4782	9.4737	82.952	17.048	10:03	LV2M9	
LV2NE	4.586	20.4904	18.0922	84.921	15.079	10:03	LV2NE	
	4.586			100.000	0.000			
	4.5499			100.000	0.000			
	4.5499			100.000	0.000			
	4.5499			100.000	0.000			
	4.5499			100.000	0.000			

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0B180429	1		LVTQQ1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Bruce Woodward	02/26/10	Samantha Scott
A0B180429	2		LVTQ11AJ	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Bruce Woodward	02/26/10	Samantha Scott
A0B180429	3		LVTQ21AJ	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Bruce Woodward	02/26/10	Samantha Scott
A0B180429	4		LVTQ31AJ	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Bruce Woodward	02/26/10	Samantha Scott
A0B180429	5		LVTQ41AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/19/10	Bradley Belding	02/20/10	Bruce Woodward
A0B180429	6		LVTRC1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/19/10	Bradley Belding	02/20/10	Bruce Woodward
A0B180429	6		LVTRC1AC	Chromium, Hexavalent (7196A)	02/24/10	Julie Kuhle	02/25/10	Jason Menapace
A0B180429	7		LVTRM1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/19/10	Bradley Belding	02/20/10	Bruce Woodward
A0B180429	7		LVTRM1AC	Chromium, Hexavalent (7196A)	02/24/10	Julie Kuhle	02/25/10	Jason Menapace
A0B180429	8		LVTRQ1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/19/10	Bradley Belding	02/20/10	Bruce Woodward
A0B180429	8		LVTRQ1AC	Chromium, Hexavalent (7196A)	02/24/10	Julie Kuhle	02/25/10	Jason Menapace
A0B180429	9		LVTTQ1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/19/10	Bradley Belding	02/20/10	Bruce Woodward
A0B180429	9		LVTTQ1AC	Chromium, Hexavalent (7196A)	02/24/10	Julie Kuhle	02/25/10	Jason Menapace
A0B180429	10		LVTTW1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/19/10	Bradley Belding	02/20/10	Bruce Woodward
A0B180429	10		LVTTW1AC	Chromium, Hexavalent (7196A)	02/24/10	Julie Kuhle	02/25/10	Jason Menapace
A0B180429	11		LVTTX1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/19/10	Bradley Belding	02/20/10	Bruce Woodward
A0B180429	11		LVTTX1AC	Chromium, Hexavalent (7196A)	02/24/10	Julie Kuhle	02/25/10	Jason Menapace
A0B180429	12		LVTT01AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Bruce Woodward	02/26/10	Samantha Scott
A0B180429	13		LVTT71AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/19/10	Bradley Belding	02/20/10	Bruce Woodward
A0B180429	13	X	LVTT71AD	Solids, Percent (as TS - 160.3 MOD) - Solids	02/19/10	Bradley Belding	02/20/10	Bruce Woodward
A0B180429	14		LVTT91AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Bruce Woodward	02/26/10	Samantha Scott
A0B180429	15		LVTVA1AG	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Bruce Woodward	02/26/10	Samantha Scott

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

WEST SACRAMENTO DATA

Case Narrative

TestAmerica West Sacramento Project Number A0B180429

General Comments
Manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: S-Q-004, including Addendum 1. Detailed information can be found in the Manual Integration Addendum section of this report.

The samples were received at 1 degrees C.

The samples were dried, ground, & sieved by the TestAmerica North Canton laboratory.

There were no other anomalies associated with this project.

Science Applications International Corp

Client Sample ID: B12SS-036M-5038-SO

HPLC

Lot-Sample #...: A0B180429-001 **Work Order #...:** LVTQQ1A4 **Matrix.....:** SO
Date Sampled...: 02/16/10 10:30 **Date Received..:** 02/17/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 0.99
% Moisture.....: 1.9 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

Science Applications International Corp

Client Sample ID: B12SS-036M-5038-SO

General Chemistry

Lot-Sample #...: A0B180429-001 **Work Order #...:** LVTQQ **Matrix.....:** SO
Date Sampled...: 02/16/10 10:30 **Date Received..:** 02/17/10
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: B12SS-037M-5039-SO

HPLC

Lot-Sample #...: A0B180429-002 **Work Order #...:** LVTQ11AF **Matrix.....:** SO
Date Sampled...: 02/16/10 14:17 **Date Received..:** 02/17/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 0.99
% Moisture.....: 2.0 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	104	(81 - 127)

Science Applications International Corp

Client Sample ID: B12SS-037M-5039-SO

General Chemistry

Lot-Sample #...: A0B180429-002 **Work Order #...:** LVTQ1 **Matrix.....:** SO
Date Sampled...: 02/16/10 14:17 **Date Received..:** 02/17/10
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: B12SS-037M-6049-FD

HPLC

Lot-Sample #...: A0B180429-003 **Work Order #...:** LVTQ21AF **Matrix.....:** SO
Date Sampled...: 02/16/10 14:17 **Date Received..:** 02/17/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 0.99
% Moisture.....: 2.0 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	102	(81 - 127)

Science Applications International Corp

Client Sample ID: B12SS-037M-6049-FD

General Chemistry

Lot-Sample #...: A0B180429-003 **Work Order #...:** LVTQ2 **Matrix.....:** SO
Date Sampled...: 02/16/10 14:17 **Date Received..:** 02/17/10
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

HPLC

Lot-Sample #...: A0B180429-004 **Work Order #...:** LVTQ31CA **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0056283
Dilution Factor: 1
% Moisture.....: 1.9 **Method.....:** SW846 8330 (Modif

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroguanidine	ND	0.25	mg/kg	0.020

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

HPLC

Lot-Sample #...: A0B180429-004 **Work Order #...:** LVTQ31AF **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 0.99
% Moisture.....: 1.9 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	**0.012 J,PG**	**0.25**	**mg/kg**	**0.012**
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	110	(81 - 127)

NOTE(S):

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO

General Chemistry

Lot-Sample #...: A0B180429-004 **Work Order #...:** LVTQ3 **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	**0.87 B,J**	**5.1**	**mg/kg**	**MCAWW 353.2**	**02/25-03/01/10**	**0056149**
		Dilution Factor: 1		MDL.....: 0.79		
Percent Solids	**98.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Science Applications International Corp

Client Sample ID: B12SS-038M-5040-SO(VOC)

General Chemistry

Lot-Sample #...: A0B180429-005 **Work Order #...:** LVTQ4 **Matrix.....:** SO
Date Sampled...: 02/16/10 13:10 **Date Received..:** 02/17/10
% Moisture.....: 30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**69.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
	Dilution Factor: 1			MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: B12SS-033-5041-SO

General Chemistry

Lot-Sample #...: A0B180429-006 **Work Order #...:** LVTRC **Matrix.....:** SO
Date Sampled...: 02/16/10 14:50 **Date Received..:** 02/17/10
% Moisture.....: 31

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	1.2	mg/kg	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1		MDL.....: 0.39		
Percent Solids	**68.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: B12SS-034-5042-SO

General Chemistry

Lot-Sample #...: A0B180429-007 **Work Order #...:** LVTRM **Matrix.....:** SO
Date Sampled...: 02/16/10 15:00 **Date Received..:** 02/17/10
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	1.1	mg/kg	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1		MDL.....: 0.35		
Percent Solids	**76.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: B12SS-035-5043-SO

General Chemistry

Lot-Sample #...: A0B180429-008 **Work Order #...:** LVTRQ **Matrix.....:** SO
Date Sampled...: 02/16/10 14:50 **Date Received..:** 02/17/10
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**0.39 J**	**1.0**	**mg/kg**	**SW846 7196A**	**02/24-02/25/10**	**0054270**
	Dilution Factor: 1			MDL.....: 0.34		
Percent Solids	**79.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
	Dilution Factor: 1			MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

J Estimated result: result is less than RL and greater than or equal to the MDL.

Science Applications International Corp

Client Sample ID: ATASS-012-5033-SO

General Chemistry

Lot-Sample #...: A0B180429-009 **Work Order #...:** LVTTQ **Matrix.....:** SO
Date Sampled...: 02/17/10 12:35 **Date Received..:** 02/17/10
% Moisture.....: 22

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**1.1**	**1.0**	**mg/kg**	**SW846 7196A**	**02/24-02/25/10**	**0054270**
		Dilution Factor: 1		MDL.....: 0.35		
Percent Solids	**77.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASS-013-5034-SO

General Chemistry

Lot-Sample #...: A0B180429-010 **Work Order #...:** LVTTW **Matrix.....:** SO
Date Sampled...: 02/17/10 12:20 **Date Received..:** 02/17/10
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	1.0	mg/kg	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1		MDL.....: 0.34		
Percent Solids	**78.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASS-014-5035-SO

General Chemistry

Lot-Sample #...: A0B180429-011 **Work Order #...:** LVTTX **Matrix.....:** SO
Date Sampled...: 02/17/10 12:10 **Date Received..:** 02/17/10
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.93	mg/kg	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1		MDL.....: 0.31		
Percent Solids	**86.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

HPLC

Lot-Sample #...: A0B180429-012 **Work Order #...:** LVTT01A8 **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0056283
Dilution Factor: 1
% Moisture.....: 1.9 **Method.....:** SW846 8330 (Modif

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroguanidine	ND	0.25	mg/kg	0.020

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

HPLC

Lot-Sample #...: A0B180429-012 **Work Order #...:** LVTT01A7 **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 0.99
% Moisture.....: 1.9 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO

General Chemistry

Lot-Sample #...: A0B180429-012 **Work Order #...:** LVTT0 **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	**2.4 B,J**	**5.1**	**mg/kg**	**MCAWW 353.2**	**02/25-03/01/10**	**0056149**
		Dilution Factor: 1		MDL.....: 0.80		
Percent Solids	**98.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Science Applications International Corp

Client Sample ID: ATASS-015M-5036-SO(VOCS)

General Chemistry

Lot-Sample #...: A0B180429-013 **Work Order #...:** LVTT7 **Matrix.....:** SO
Date Sampled...: 02/17/10 12:00 **Date Received..:** 02/17/10
% Moisture.....: 25

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**74.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/19-02/20/10**	**0050250**
	Dilution Factor: 1			MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: ATASS-016M-5037-SO

HPLC

Lot-Sample #...: A0B180429-014 **Work Order #...:** LVTT91A4 **Matrix.....:** SO
Date Sampled...: 02/17/10 10:45 **Date Received..:** 02/17/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 0.99
% Moisture.....: 2.1 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	114	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASS-016M-5037-SO

General Chemistry

Lot-Sample #...: A0B180429-014 **Work Order #...:** LVTT9 **Matrix.....:** SO
Date Sampled...: 02/17/10 10:45 **Date Received..:** 02/17/10
% Moisture.....: 2.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**97.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**
	Dilution Factor: 1			MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: ATASS-016M-6047-FD

HPLC

Lot-Sample #...: A0B180429-015 **Work Order #...:** LVTVA1AF **Matrix.....:** SO
Date Sampled...: 02/17/10 10:45 **Date Received..:** 02/17/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 0.99
% Moisture.....: 2.1 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	**0.11 J**	**0.50**	**mg/kg**	**0.025**
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	123	(81 - 127)

NOTE(S):

J Estimated result. Result is less than RL.

Science Applications International Corp

Client Sample ID: ATASS-016M-6047-FD

General Chemistry

Lot-Sample #...: A0B180429-015 **Work Order #...:** LVTVA **Matrix.....:** SO
Date Sampled...: 02/17/10 10:45 **Date Received..:** 02/17/10
% Moisture.....: 2.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**97.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0056091**

Dilution Factor: 1 MDL.....: 10.0

METHOD BLANK REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LV3691AA **Matrix.....:** SOLID
MB Lot-Sample #: G0B250000-283
Prep Date.....: 02/25/10
Analysis Date..: 03/03/10 **Prep Batch #...:** 0056283
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitroguanidine	ND	0.25	mg/kg	SW846 8330 (Modif

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LV3R01AA **Matrix.....:** SOLID
MB Lot-Sample #: G0B250000-227

Prep Date.....: 02/25/10
Analysis Date..: 03/04/10 **Prep Batch #...:** 0056227
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330B
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
Nitrobenzene	ND	0.25	mg/kg	SW846 8330B
Nitroglycerin	ND	0.50	mg/kg	SW846 8330B
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330B
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330B
HMX	ND	0.25	mg/kg	SW846 8330B
RDX	ND	0.25	mg/kg	SW846 8330B
Tetryl	ND	0.25	mg/kg	SW846 8330B
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330B
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330B
4-Nitrotoluene	ND	0.50	mg/kg	SW846 8330B
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
PETN	ND	0.50	mg/kg	SW846 8330B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV3X21AE		MB Lot-Sample #:	A0B230000-270	
	ND	0.80	mg/kg	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1				
Nitrocellulose		Work Order #: LV3EQ1AA		MB Lot-Sample #:	G0B250000-149	
	0.80 B	**5.0**	**mg/kg**	**MCAWW 353.2**	**02/25-03/01/10**	**0056149**
		Dilution Factor: 1				
Percent Solids		Work Order #: LVWJA1AA		MB Lot-Sample #:	A0B190000-250	
	ND	10.0	%	MCAWW 160.3 MOD	02/19-02/20/10	0050250
		Dilution Factor: 1				
Percent Solids		Work Order #: LV2781AA		MB Lot-Sample #:	A0B250000-091	
	ND	10.0	%	MCAWW 160.3 MOD	02/25-02/26/10	0056091
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LV3691AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0B250000-283
Prep Date.....: 02/25/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0056283
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Nitroguanidine	**95**	**(72 - 121)**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LV3691AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0B250000-283
Prep Date.....: 02/25/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0056283
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Nitroguanidine	**1.0**	**0.95**	**mg/kg**	**95**	**SW846 8330 (Modi**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LV3R01AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0B250000-227
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2-Amino-4,6-dinitrotoluene	**96**	**(80 - 125)**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**96**	**(80 - 125)**	**SW846 8330B**
1,3-Dinitrobenzene	**99**	**(80 - 125)**	**SW846 8330B**
2,4-Dinitrotoluene	**96**	**(80 - 125)**	**SW846 8330B**
2,6-Dinitrotoluene	**95**	**(80 - 120)**	**SW846 8330B**
HMX	**100**	**(75 - 125)**	**SW846 8330B**
Nitrobenzene	**98**	**(75 - 125)**	**SW846 8330B**
2-Nitrotoluene	**105**	**(80 - 125)**	**SW846 8330B**
3-Nitrotoluene	**97**	**(75 - 120)**	**SW846 8330B**
4-Nitrotoluene	**98**	**(75 - 125)**	**SW846 8330B**
RDX	**100**	**(70 - 135)**	**SW846 8330B**
Tetryl	**88**	**(10 - 150)**	**SW846 8330B**
1,3,5-Trinitrobenzene	**100**	**(75 - 125)**	**SW846 8330B**
2,4,6-Trinitrotoluene	**92**	**(55 - 140)**	**SW846 8330B**
Nitroglycerin	**102**	**(74 - 112)**	**SW846 8330B**
PETN	**98**	**(75 - 117)**	**SW846 8330B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	98	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LV3R01AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0B250000-227
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Amino-4,6-dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**96**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**96**	**SW846 8330B**
1,3-Dinitrobenzene	**0.50**	**0.50**	**mg/kg**	**99**	**SW846 8330B**
2,4-Dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**96**	**SW846 8330B**
2,6-Dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**95**	**SW846 8330B**
HMX	**0.50**	**0.50**	**mg/kg**	**100**	**SW846 8330B**
Nitrobenzene	**0.50**	**0.49**	**mg/kg**	**98**	**SW846 8330B**
2-Nitrotoluene	**0.50**	**0.52**	**mg/kg**	**105**	**SW846 8330B**
3-Nitrotoluene	**0.50**	**0.48**	**mg/kg**	**97**	**SW846 8330B**
4-Nitrotoluene	**0.50**	**0.49**	**mg/kg**	**98**	**SW846 8330B**
RDX	**0.50**	**0.50**	**mg/kg**	**100**	**SW846 8330B**
Tetryl	**0.50**	**0.44**	**mg/kg**	**88**	**SW846 8330B**
1,3,5-Trinitrobenzene	**0.50**	**0.50**	**mg/kg**	**100**	**SW846 8330B**
2,4,6-Trinitrotoluene	**0.50**	**0.46**	**mg/kg**	**92**	**SW846 8330B**
Nitroglycerin	**1.0**	**1.0**	**mg/kg**	**102**	**SW846 8330B**
PETN	**1.0**	**0.98**	**mg/kg**	**98**	**SW846 8330B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	98	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV3X21AF	LCS Lot-Sample#: A0B230000-270		
	106	(80 - 120)	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1			
Nitrocellulose		Work Order #: LV3EQ1AC	LCS Lot-Sample#: G0B250000-149		
	67	(34 - 115)	MCAWW 353.2	02/25-03/01/10	0056149
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B180429 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV3X21AF		LCS Lot-Sample#: A0B230000-270			
	20.0	21.1	mg/kg	106	SW846 7196A	02/24-02/25/10	0054270
		Dilution Factor: 1					
Nitrocellulose		Work Order #: LV3EQ1AC		LCS Lot-Sample#: G0B250000-149			
	50.9	34.2	mg/kg	67	MCAWW 353.2	02/25-03/01/10	0056149
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LVQVK1CH-MS **Matrix.....:** SOLID
MS Lot-Sample #: A0B160474-004 LVQVK1CJ-MSD
Date Sampled...: 02/15/10 15:10 **Date Received..:** 02/16/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0056283
Dilution Factor: 1 **% Moisture.....:** 31

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Nitroguanidine	**93**	**(72 - 121)**			**SW846 8330 (Modified**
	91	**(72 - 121)**	**1.9**	**(0-20)**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LVQVK1CH-MS **Matrix.....:** SOLID
MS Lot-Sample #: A0B160474-004 LVQVK1CJ-MSD
Date Sampled...: 02/15/10 15:10 **Date Received..:** 02/16/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0056283
Dilution Factor: 1 **% Moisture.....:** 31

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Nitroguanidine	**ND**	**1.0**	**0.93**	**mg/kg**	**93**		**SW846 8330 (Modified**
	ND	**1.0**	**0.91**	**mg/kg**	**91**	**1.9**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LVWW51DR-MS **Matrix.....:** SOLID
MS Lot-Sample #: A0B190524-001 LVWW51DT-MSD
Date Sampled...: 02/18/10 13:55 **Date Received..:** 02/19/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 1 **% Moisture.....:** 38

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluene	**93**	**(80 - 125)**			**SW846 8330B**
	93	**(80 - 125)**	**0.43**	**(0-30)**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**83**	**(80 - 125)**			**SW846 8330B**
	83	**(80 - 125)**	**0.02**	**(0-30)**	**SW846 8330B**
1,3-Dinitrobenzene	**100**	**(80 - 125)**			**SW846 8330B**
	100	**(80 - 125)**	**0.62**	**(0-30)**	**SW846 8330B**
2,4-Dinitrotoluene	**97**	**(80 - 125)**			**SW846 8330B**
	97	**(80 - 125)**	**0.43**	**(0-30)**	**SW846 8330B**
2,6-Dinitrotoluene	**98**	**(80 - 120)**			**SW846 8330B**
	97	**(80 - 120)**	**1.6**	**(0-30)**	**SW846 8330B**
HMX	**97**	**(75 - 125)**			**SW846 8330B**
	98	**(75 - 125)**	**0.30**	**(0-30)**	**SW846 8330B**
Nitrobenzene	**98**	**(75 - 125)**			**SW846 8330B**
	96	**(75 - 125)**	**2.4**	**(0-30)**	**SW846 8330B**
2-Nitrotoluene	**99**	**(80 - 125)**			**SW846 8330B**
	97	**(80 - 125)**	**2.8**	**(0-30)**	**SW846 8330B**
3-Nitrotoluene	**98**	**(75 - 120)**			**SW846 8330B**
	95	**(75 - 120)**	**3.5**	**(0-30)**	**SW846 8330B**
4-Nitrotoluene	**98**	**(75 - 125)**			**SW846 8330B**
	96	**(75 - 125)**	**2.6**	**(0-30)**	**SW846 8330B**
RDX	**96**	**(70 - 135)**			**SW846 8330B**
	96	**(70 - 135)**	**0.33**	**(0-30)**	**SW846 8330B**
Tetryl	**81**	**(10 - 150)**			**SW846 8330B**
	82	**(10 - 150)**	**0.17**	**(0-30)**	**SW846 8330B**
1,3,5-Trinitrobenzene	**103**	**(75 - 125)**			**SW846 8330B**
	103	**(75 - 125)**	**0.21**	**(0-30)**	**SW846 8330B**
2,4,6-Trinitrotoluene	**93**	**(55 - 140)**			**SW846 8330B**
	93	**(55 - 140)**	**0.51**	**(0-30)**	**SW846 8330B**
Nitroglycerin	**105**	**(74 - 112)**			**SW846 8330B**
	104	**(74 - 112)**	**0.95**	**(0-30)**	**SW846 8330B**
PETN	**99**	**(75 - 117)**			**SW846 8330B**
	98	**(75 - 117)**	**1.4**	**(0-30)**	**SW846 8330B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LVWW51DR-MS **Matrix.....:** SOLID
MS Lot-Sample #: A0B190524-001 LVWW51DT-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	99	(81 - 127)
	99	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LVWW51DR-MS **Matrix.....:** SOLID
MS Lot-Sample #: A0B190524-001 LVWW51DT-MSD
Date Sampled...: 02/18/10 13:55 **Date Received..:** 02/19/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 1 **% Moisture.....:** 38

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2-Amino-4,6-dinitrotoluene	**ND**	**0.50**	**0.47**	**mg/kg**	**93**		**SW846 8330B**
	ND	**0.50**	**0.46**	**mg/kg**	**93**	**0.43**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**ND**	**0.50**	**0.41**	**mg/kg**	**83**		**SW846 8330B**
	ND	**0.50**	**0.41**	**mg/kg**	**83**	**0.02**	**SW846 8330B**
1,3-Dinitrobenzene	**ND**	**0.50**	**0.50**	**mg/kg**	**100**		**SW846 8330B**
	ND	**0.50**	**0.50**	**mg/kg**	**100**	**0.62**	**SW846 8330B**
2,4-Dinitrotoluene	**ND**	**0.50**	**0.49**	**mg/kg**	**97**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**97**	**0.43**	**SW846 8330B**
2,6-Dinitrotoluene	**ND**	**0.50**	**0.49**	**mg/kg**	**98**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**97**	**1.6**	**SW846 8330B**
HMX	**ND**	**0.50**	**0.49**	**mg/kg**	**97**		**SW846 8330B**
	ND	**0.50**	**0.49**	**mg/kg**	**98**	**0.30**	**SW846 8330B**
Nitrobenzene	**ND**	**0.50**	**0.49**	**mg/kg**	**98**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**2.4**	**SW846 8330B**
2-Nitrotoluene	**ND**	**0.50**	**0.50**	**mg/kg**	**99**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**97**	**2.8**	**SW846 8330B**
3-Nitrotoluene	**ND**	**0.50**	**0.49**	**mg/kg**	**98**		**SW846 8330B**
	ND	**0.50**	**0.47**	**mg/kg**	**95**	**3.5**	**SW846 8330B**
4-Nitrotoluene	**ND**	**0.50**	**0.49**	**mg/kg**	**98**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**2.6**	**SW846 8330B**
RDX	**ND**	**0.50**	**0.48**	**mg/kg**	**96**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**0.33**	**SW846 8330B**
Tetryl	**ND**	**0.50**	**0.41**	**mg/kg**	**81**		**SW846 8330B**
	ND	**0.50**	**0.41**	**mg/kg**	**82**	**0.17**	**SW846 8330B**
1,3,5-Trinitrobenzene	**ND**	**0.50**	**0.52**	**mg/kg**	**103**		**SW846 8330B**
	ND	**0.50**	**0.51**	**mg/kg**	**103**	**0.21**	**SW846 8330B**
2,4,6-Trinitrotoluene	**ND**	**0.50**	**0.46**	**mg/kg**	**93**		**SW846 8330B**
	ND	**0.50**	**0.46**	**mg/kg**	**93**	**0.51**	**SW846 8330B**
Nitroglycerin	**ND**	**1.0**	**1.0**	**mg/kg**	**105**		**SW846 8330B**
	ND	**1.0**	**1.0**	**mg/kg**	**104**	**0.95**	**SW846 8330B**
PETN	**ND**	**1.0**	**1.0**	**mg/kg**	**99**		**SW846 8330B**
	ND	**1.0**	**0.98**	**mg/kg**	**98**	**1.4**	**SW846 8330B**

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LVWW51DR-MS **Matrix.....:** SOLID
MS Lot-Sample #: A0B190524-001 LVWW51DT-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	99	(81 - 127)
	99	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/15/10 15:10 **Date Received..:** 02/16/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 31	
Nitrocellulose		WO#: LVQVK1CF-MS/LVQVK1CG-MSD				MS Lot-Sample #: A0B160474-004	
	34	(34 - 115)			MCAWW 353.2	02/25-03/01/10	0056149
	32 N	(34 - 115)	5.2	(0-71)	MCAWW 353.2	02/25-03/01/10	0056149
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B180429 **Matrix.....:** SOLID
Date Sampled...: 02/15/10 15:10 **Date Received..:** 02/16/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
							% Moisture.....: 31		
Nitrocellulose			WO#: LVQVK1CF-MS/LVQVK1CG-MSD				MS Lot-Sample #: A0B160474-004		
	1.2	73.1	25.7	mg/kg	34		MCAWW 353.2	02/25-03/01/10	0056149
	1.2	73.4	24.4 N	mg/kg	32	5.2	MCAWW 353.2	02/25-03/01/10	0056149
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LVVFK1A8 -SMP **Matrix.....:** SOLID
SD Lot-Sample #: A0B180524-001 LVVFK1CC -DUP
Date Sampled...: 02/17/10 09:45 **Date Received..:** 02/18/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 0.98
% Moisture.....: 35

PARAMETER	SAMPLE RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD
4-Amino-2,6-dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2-Amino-4,6-dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
1,3-Dinitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,4-Dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,6-Dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
HMX	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Nitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Nitroglycerin	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
3-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
4-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
PETN	ND	ND	mg/kg	0	(0-30)	SW846 8330B
RDX	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Tetryl	ND	ND	mg/kg	0	(0-30)	SW846 8330B
1,3,5-Trinitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,4,6-Trinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B

SURROGATE RECOVERY	SAMPLE % RECOVERY	DUPLICATE % RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	104	(81 - 127)

SAMPLE DUPLICATE EVALUATION REPORT

HPLC

Client Lot #...: A0B180429 **Work Order #...:** LVVFK1A8 -SMP **Matrix.....:** SOLID
SD Lot-Sample #: A0B180524-001 LVVFK1CD -DUP
Date Sampled...: 02/17/10 09:45 **Date Received..:** 02/18/10
Prep Date.....: 02/25/10 **Analysis Date..:** 03/04/10
Prep Batch #...: 0056227
Dilution Factor: 0.97
% Moisture.....: 35

PARAMETER	SAMPLE RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD
4-Amino-2,6-dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2-Amino-4,6-dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
1,3-Dinitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,4-Dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,6-Dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
HMX	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Nitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Nitroglycerin	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
3-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
4-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
PETN	ND	ND	mg/kg	0	(0-30)	SW846 8330B
RDX	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Tetryl	ND	ND	mg/kg	0	(0-30)	SW846 8330B
1,3,5-Trinitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,4,6-Trinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B

SURROGATE RECOVERY	SAMPLE % RECOVERY	DUPLICATE % RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	106	(81 - 127)

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Work Order #...:** LVR2L-SMP **Matrix.....:** SOLID
LVR2L-DUP
Date Sampled...: 02/16/10 13:24 **Date Received..:** 02/17/10
% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B170490-005		
	82.5	81.9	%	0.83	(0-20)	MCAWW 160.3 MOD	02/19-02/20/10	0050250

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Work Order #...:** LVTT7-SMP **Matrix.....:** SO
LVTT7-DUP
Date Sampled...: 02/16/10 12:00 **Date Received..:** 02/17/10
% Moisture.....: 25

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B180429-013		
	74.6	77.8	%	4.1	(0-20)	MCAWW 160.3 MOD	02/19-02/20/10	0050250

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Work Order #...:** LT58G-SMP **Matrix.....:** SOLID
LT58G-DUP
Date Sampled...: 01/28/10 **Date Received..:** 02/01/10
% Moisture.....: 25

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B030504-014		
	75.4	75.7	%	0.51	(0-20)	MCAWW 160.3 MOD	02/25-02/26/10	0056091

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B180429 **Work Order #...:** LV1X2-SMP **Matrix.....:** SOLID
LV1X2-DUP
Date Sampled...: 02/23/10 08:45 **Date Received..:** 02/24/10
% Moisture.....: 21

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B240423-001		
	78.9	77.4	%	2.0	(0-20)	MCAWW 160.3 MOD	02/25-02/26/10	0056091

Dilution Factor: 1

Manual Integration Addendum

North Canton

Manual Integration Record

Instrument : PDA Lot# A0B180429

8330

Compound Name	Analysis date: ICAL 1	2	3	4	5	6	7	8	ICV	Analysis date:								Analysis date: 3-8-10 (CONF) CCV	CCV							
Nitroguanidine																		X	X							yes

SOLID, 8330B, Explosives

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC10 Batch ID: 03022010
Method : Method 8330 Test : SOP SAC-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
02-MAR-2010	10:51	NS	8330 PRIMER	A-000001.	0 g	0 mL	1	
02-MAR-2010	11:40	NS	8330 PRIMER	A-000002.	0 g	0 mL	1	
02-MAR-2010	12:28	NS	STD_06 09GCSV0482 8330 200ng/m	A-000003.	0 g	0 mL	1	
02-MAR-2010	13:17	NS	LV5AW1AA 0057225 G0B260000-MB	A-000004.	1000 mL	20 mL	1	
02-MAR-2010	14:05	NS	LV5AW1AC 0057225 G0B260000-LCS	A-000005.	1000 mL	20 mL	1	
02-MAR-2010	14:54	NS	LVQVT2AT 0057225 A0B160474-9	A-000006.	898.16 mL	20 mL	1	
02-MAR-2010	15:42	NS	LVQVT1EJ 0057225 A0B160474-9S	A-000007.	889.34 mL	20 mL	1	
02-MAR-2010	16:31	NS	LVQVT1EK 0057225 A0B160474-9D	A-000008.	906.55 mL	20 mL	1	
02-MAR-2010	17:19	NS	LVQVV2AT 0057225 A0B160474-10	A-000009.	1019.05 mL	20 mL	1	
02-MAR-2010	18:07	NS	LV49G1AA 0057220 G0B260000-MB	A-000010.	10 g	80 mL	1	
02-MAR-2010	18:56	NS	LV49G1AC 0057220G0B260000-LCS	A-000011.	10 g	80 mL	1	
02-MAR-2010	19:44	NS	LVQVF2CP 0057220 A0B160474-1	A-000012.	10.05 g	80 mL	1	
02-MAR-2010	20:33	NS	LVQVH2AH 0057220 A0B160474-2	A-000013.	10.21 g	80 mL	1	
02-MAR-2010	21:21	NS	STD_05 10GCSV0072 8330 100ng/m	A-000014.	0 g	0 mL	1	
02-MAR-2010	22:10	NS	LVQVH1A8 0057220 A0B160474-2S	A-000015.	10.01 g	80 mL	1	
02-MAR-2010	22:58	NS	LVQVH1A9 0057220 A0B160474-2D	A-000016.	10.02 g	80 mL	1	
02-MAR-2010	23:47	NS	LVQVL2AK 0057220 A0B160474-5	A-000017.	10.11 g	80 mL	1	
03-MAR-2010	00:35	NS	LVQVL1CH 0057220 A0B160474-5 D	A-000018.	10.09 g	80 mL	1	
03-MAR-2010	01:24	NS	LVQVL1CJ 0057220 A0B160474-5 T	A-000019.	10.14 g	80 mL	1	
03-MAR-2010	02:12	NS	LV6Q11AA 0060199 G0C010000-MB	A-000020.	10 g	80 mL	1	
03-MAR-2010	03:01	NS	LV6Q11AC 0060199 G0C010000-LCS	A-000021.	10 g	80 mL	1	
03-MAR-2010	03:49	NS	LVQVJ2AV 0060199 A0B160474-3	A-000022.	10.04 g	80 mL	1	
03-MAR-2010	04:38	NS	LVQVK2A8 0060199 A0B160474-4	A-000023.	10.24 g	80 mL	1	
03-MAR-2010	05:26	NS	LVQVK2CL 0060199 A0B160474-4S	A-000024.	9.98 g	80 mL	1	
03-MAR-2010	06:15	NS	STD_05 10GCSV0072 8330 100ng/m	A-000025.	0 g	0 mL	1	
03-MAR-2010	07:03	NS	LVQVK2CM 0060199 A0B160474-4D	A-000026.	10.09 g	80 mL	1	
03-MAR-2010	07:51	NS	LV6Q81AA 0060203 G0C010000-MB	A-000027.	10 g	80 mL	1	
03-MAR-2010	08:40	NS	LV6Q81AC 0060203 G0C010000-LCS	A-000028.	10 g	80 mL	1	
03-MAR-2010	09:28	NS	LV3RP1AC 0060203 A0B250493-1	A-000029.	10.18 g	80 mL	1	
03-MAR-2010	10:17	NS	LV3RP1AD 0060203 A0B250493-1S	A-000030.	10.12 g	80 mL	1	
03-MAR-2010	11:05	NS	LVQVV2AT 0057225 A0B160474-10	A-000031.	1019.05 mL	20 mL	1	
03-MAR-2010	11:54	NS	LV3RP1AE 0060203 A0B250493-1D	A-000032.	10 g	80 mL	1	
03-MAR-2010	12:43	NS	LV3R51AC 0060203 A0B250493-2	A-000033.	9.97 g	80 mL	1	
03-MAR-2010	13:31	NS	LV3R71AC 0060203 A0B250493-3	A-000034.	10.14 g	80 mL	1	
03-MAR-2010	14:20	NS	LV3R91AC 0060203 A0B250493-4	A-000035.	10.03 g	80 mL	1	
03-MAR-2010	15:08	NS	LV3TC1AC 0060203 A0B250493-5	A-000036.	10.1 g	80 mL	1	
03-MAR-2010	15:57	NS	STD_05 10GCSV0072 8330 100ng/m	A-000037.	0 g	0 mL	1	
03-MAR-2010	16:45	NS	LV3TC1AD 0060203 A0B250493-5 D	A-000038.	10.16 g	80 mL	1	
03-MAR-2010	17:34	NS	LV3TC1AE 0060203 A0B250493-5 T	A-000039.	10.21 g	80 mL	1	
03-MAR-2010	18:22	NS	LV7NF1AA 0061228 G0C020000-MB	A-000040.	10 g	80 mL	1	
03-MAR-2010	19:11	NS	LV7NF1AC 0061228 G0C020000-LCS	A-000041.	10 g	80 mL	1	
03-MAR-2010	19:59	NS	LV4021AC 0061228 A0B260449-1	A-000042.	10.03 g	80 mL	1	
03-MAR-2010	20:48	NS	LV03V1A8 0061228 A0B230467-1	A-000043.	10.05 g	80 mL	1	
03-MAR-2010	21:37	NS	LV0301DM 0061228 A0B230467-2	A-000044.	10.06 g	80 mL	1	
03-MAR-2010	22:25	NS	LV0301DN 0061228 A0B230467-2S	A-000045.	10.01 g	80 mL	1	
03-MAR-2010	23:14	NS	LV0301DP 0061228 A0B230467-2D	A-000046.	10.06 g	80 mL	1	
04-MAR-2010	00:02	NS	LV0311A4 0061228 A0B230467-3	A-000047.	10 g	80 mL	1	
04-MAR-2010	00:51	NS	STD_05 10GCSV0072 8330 100ng/m	A-000048.	0 g	0 mL	1	
04-MAR-2010	01:39	NS	LV0341AF 0061228 A0B230467-4	A-000049.	10 g	80 mL	1	
04-MAR-2010	02:28	NS	LV0351AM 0061228 A0B230467-5	A-000050.	10.08 g	80 mL	1	

Sequence continued on next page

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page 2 of Batch 03022010 on Instrument LC10
For header information, refer to the first page of this batch's log.

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
04-MAR-2010	03:16	NS	LV0361AM 0061228 A0B230467-6	A-000051.	10.08 g	80 mL	1	
04-MAR-2010	04:05	NS	LV0361A6 0061228 A0B230467-6 D	A-000052.	10.06 g	80 mL	1	
04-MAR-2010	04:53	NS	LV0361A7 0061228 A0B230467-6 T	A-000053.	10.08 g	80 mL	1	
04-MAR-2010	05:42	NS	LV3R01AA 0056227 G0B250000-MB	A-000054.	10 g	80 mL	1	
04-MAR-2010	06:30	NS	LV3R01AC 0056227 G0B250000-LCS	A-000055.	10 g	80 mL	1	
04-MAR-2010	07:19	NS	LVTQQ1A4 0056227 A0B180429-1	A-000056.	10.06 g	80 mL	1	
04-MAR-2010	08:07	NS	LVTQ11AF 0056227 A0B180429-2	A-000057.	10.03 g	80 mL	1	
04-MAR-2010	08:56	NS	LVTQ21AF 0056227 A0B180429-3	A-000058.	10.02 g	80 mL	1	
04-MAR-2010	09:44	NS	STD_05 10GCSV0072 8330 100ng/m	A-000059.	0 g	0 mL	1	
04-MAR-2010	10:33	NS	LVTQ31AF 0056227 A0B180429-4	A-000060.	10.01 g	80 mL	1	
04-MAR-2010	11:22	NS	LVTT01A7 0056227 A0B180429-12	A-000061.	10.02 g	80 mL	1	
04-MAR-2010	12:10	NS	LVTT91A4 0056227 A0B180429-14	A-000062.	10.06 g	80 mL	1	
04-MAR-2010	12:59	NS	LVTVA1AF 0056227 A0B180429-15	A-000063.	10.05 g	80 mL	1	
04-MAR-2010	13:47	NS	LVVFK1A8 0056227 A0B180524-1	A-000064.	10.05 g	80 mL	1	
04-MAR-2010	14:36	NS	LVVFK1CC 0056227 A0B180524-1 D	A-000065.	10.18 g	80 mL	1	
04-MAR-2010	15:24	NS	LVVFK1CD 0056227 A0B180524-1 T	A-000066.	10.24 g	80 mL	1	
04-MAR-2010	16:13	NS	LVVF11AK 0056227 A0B180524-4	A-000067.	10.26 g	80 mL	1	
04-MAR-2010	17:02	NS	LVVF61AK 0056227 A0B180524-5	A-000068.	10.14 g	80 mL	1	
04-MAR-2010	17:50	NS	LVWW51DQ 0056227 A0B190524-1	A-000069.	9.99 g	80 mL	1	
04-MAR-2010	18:39	NS	STD_05 10GCSV0072 8330 100ng/m	A-000070.	0 g	0 mL	1	
04-MAR-2010	19:27	NS	LVWW51DR 0056227 A0B190524-1S	A-000071.	9.98 g	80 mL	1	
04-MAR-2010	20:16	NS	LVWW51DT 0056227 A0B190524-1D	A-000072.	10.02 g	80 mL	1	
04-MAR-2010	21:04	NS	LVWW91A8 0056227 A0B190524-2	A-000073.	10.08 g	80 mL	1	
04-MAR-2010	21:53	NS	LVWXC1AK 0056227 A0B190524-3	A-000074.	10.1 g	80 mL	1	
04-MAR-2010	22:41	NS	LVWXF1A5 0056227 A0B190524-4	A-000075.	10.16 g	80 mL	1	
04-MAR-2010	23:30	NS	LVWX01A4 0056227 A0B190524-9	A-000076.	10.06 g	80 mL	1	
05-MAR-2010	00:19	NS	LVWX11A8 0056227 A0B190524-10	A-000077.	10.05 g	80 mL	1	
05-MAR-2010	01:07	NS	LVWX81A8 0056227 A0B190524-13	A-000078.	10.05 g	80 mL	1	
05-MAR-2010	01:56	NS	LV9LJ1AA 0063069 G0C040000-MB	A-000079.	1000 mL	20 mL	1	
05-MAR-2010	02:44	NS	LV9LJ1AC 0063069 G0C040000-LCS	A-000080.	1000 mL	20 mL	1	
05-MAR-2010	03:33	NS	STD_05 10GCSV0072 8330 100ng/m	A-000081.	0 g	0 mL	1	
05-MAR-2010	04:21	NS	LV7HC1AA 0063069 G0C020446-1	A-000082.	1028.92 mL	20 mL	1	
05-MAR-2010	05:09	NS	LV7HK1AA 0063069 G0C020446-2	A-000083.	1008.59 mL	20 mL	1	
05-MAR-2010	05:58	NS	LV7HM1AC 0063069 G0C020446-3	A-000084.	1017.72 mL	20 mL	1	
05-MAR-2010	06:46	NS	LV7JN1AA 0063069 G0C020450-1	A-000085.	1026.48 mL	20 mL	1	
05-MAR-2010	07:35	NS	LV7JQ1AA 0063069 G0C020450-2	A-000086.	1031.44 mL	20 mL	1	
05-MAR-2010	08:23	NS	LV80F1AA 0062206 G0C030000-MB	A-000087.	1000 mL	20 mL	1	
05-MAR-2010	09:11	NS	LV80F1AC 0062206 G0C030000-LCS	A-000088.	1000 mL	20 mL	1	
05-MAR-2010	10:00	NS	LV72N1AC 0062206 G0C020502-1	A-000089.	1021.89 mL	20 mL	1	
05-MAR-2010	10:49	NS	LV72P1AC 0062206 G0C020502-2	A-000090.	1019.23 mL	20 mL	1	
05-MAR-2010	11:37	NS	LV72Q1AC 0062206 G0C020502-3	A-000091.	1007.65 mL	20 mL	1	
05-MAR-2010	12:26	NS	STD_05 10GCSV0072 8330 100ng/m	A-000092.	0 g	0 mL	1	

TestAmerica West Sacramento

A-000048.D

Chromatography Summary

Injection Date: 3/4/2010 0:51 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000048.D **Vial Num:** 4

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.66	4759	98.6900<	100	-1%	Acceptable		18.66	9753	99.9100	100	0%	Acceptable		(±15)	
HMX	5.45	13116	98.4500<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
RDX	8.02	9254	102.6000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID	9.27	18543	211.5000	200	6%	Acceptable		9.27	27359	212.6000<	200	6%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.58	16194	100.7000<	100	1%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.60	15749	100.3000<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	15.08	8162	92.9600<	100	-7%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	15.45	7052	95.2600<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.32	9097	95.2000<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	18.08	6936	97.3000<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.20	7882	97.1100<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	20.94	5446	96.1600<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.71	8871	96.5500<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	25.29	3809	93.5200<	100	-6%	Acceptable					100	-100%	Fails		(±15)	45
4-Nitrotoluene	27.27	4610	94.6400<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
3-Nitrotoluene	29.38	4500	93.7300<	100	-6%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				**100**	**-100%**	**Fails**		16.36	6348	101.2000<	100	1%	Acceptable		(±15)	45
PETN				**100**	**-100%**	**Fails**		32.91	3178	100.5000<	100	1%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.49	10275	99.7800<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				**100**	**-100%**	**Fails**					100	-100%	Fails		(±15)	

M 3/4/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 3:09 PM

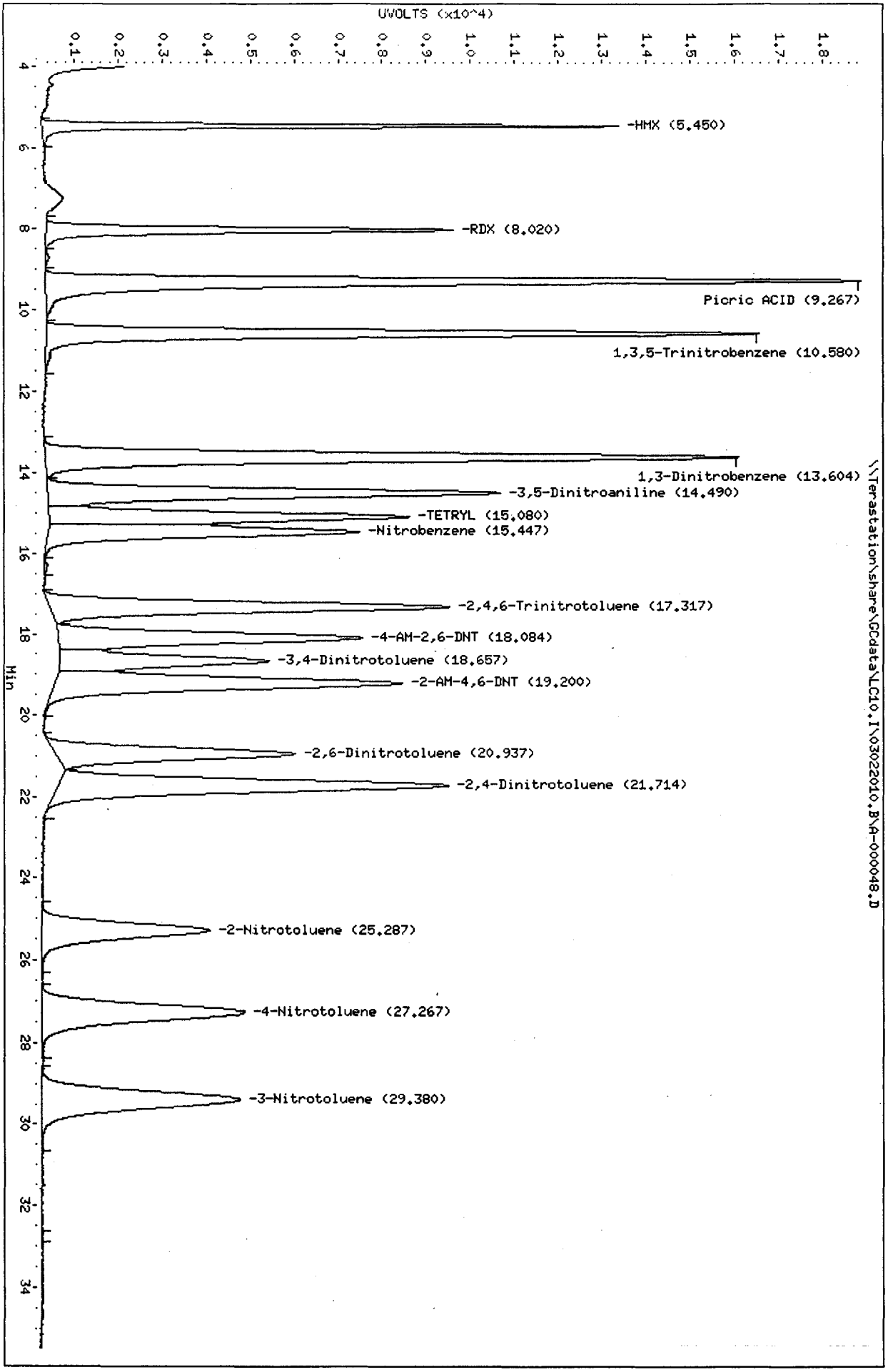
Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000048.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 04-MAR-2010 00:51
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 01:35 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.450	83898	13116	0.156	8.49		2	HMX
8.020	95945	9254	0.096	5.99		3	RDX
8.724	978	93	0.095	0.06			
9.267	250364	18543	0.074	12.08		5	Picric ACID
10.580	205563	16194	0.079	10.48		6	1,3,5-Trinitrobenze
13.604	244900	15749	0.064	10.19		7	1,3-Dinitrobenzene
14.490	167928	10275	0.061	6.65		8	3,5-Dinitroaniline
15.080	129316	8162	0.063	5.28		9	TETRYL
15.447	124328	7052	0.057	4.56		10	Nitrobenzene
16.290	1063	75	0.071	0.04			
17.317	162432	9097	0.056	5.88		12	2,4,6-Trinitrotolue
18.084	130268	6936	0.053	4.49		13	4-AM-2,6-DNT
18.657	87466	4759	0.054	3.08	$	1	3,4-Dinitrotoluene
19.200	163303	7882	0.048	5.10		14	2-AM-4,6-DNT
20.937	109860	5446	0.050	3.52		15	2,6-Dinitrotoluene
21.714	193123	8871	0.046	5.74		16	2,4-Dinitrotoluene
25.287	100056	3809	0.038	2.46		17	2-Nitrotoluene
27.267	130636	4610	0.035	2.98		18	4-Nitrotoluene
29.380	136424	4500	0.033	2.91		19	3-Nitrotoluene
32.824	432	44	0.102	0.02			
	2518283	154467		100.000			

Total unknown % height = 0.1200


Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000048.D
Date : 04-MAR-2010 00:51
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2
Instrument: LC10.i
Operator: NS
Column diameter: 4.60
Column phase: SYNERGI HYDRORP C18
UVOLTS (x10^4)
Min
-HMX (5.450)
-RDX (8.020)
Picric ACID (9.267)
1,3,5-Trinitrobenzene (10.580)
1,3-Dinitrobenzene (13.604)
-3,5-Dinitroaniline (14.490)
-TETRYL (15.080)
-Nitrobenzene (15.447)
-2,4,6-Trinitrotoluene (17.317)
-4-AM-2,6-DNT (18.084)
-3,4-Dinitrotoluene (18.657)
-2-AM-4,6-DNT (19.200)
-2,6-Dinitrotoluene (20.937)
-2,4-Dinitrotoluene (21.714)
-2-Nitrotoluene (25.287)
-4-Nitrotoluene (27.267)
-3-Nitrotoluene (29.380)
\\Terastation\share\GCdata\LC10.I\03022010.B\A-000048.D

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000048.D\A-000048
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 04-MAR-2010 00:51
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 01:35 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

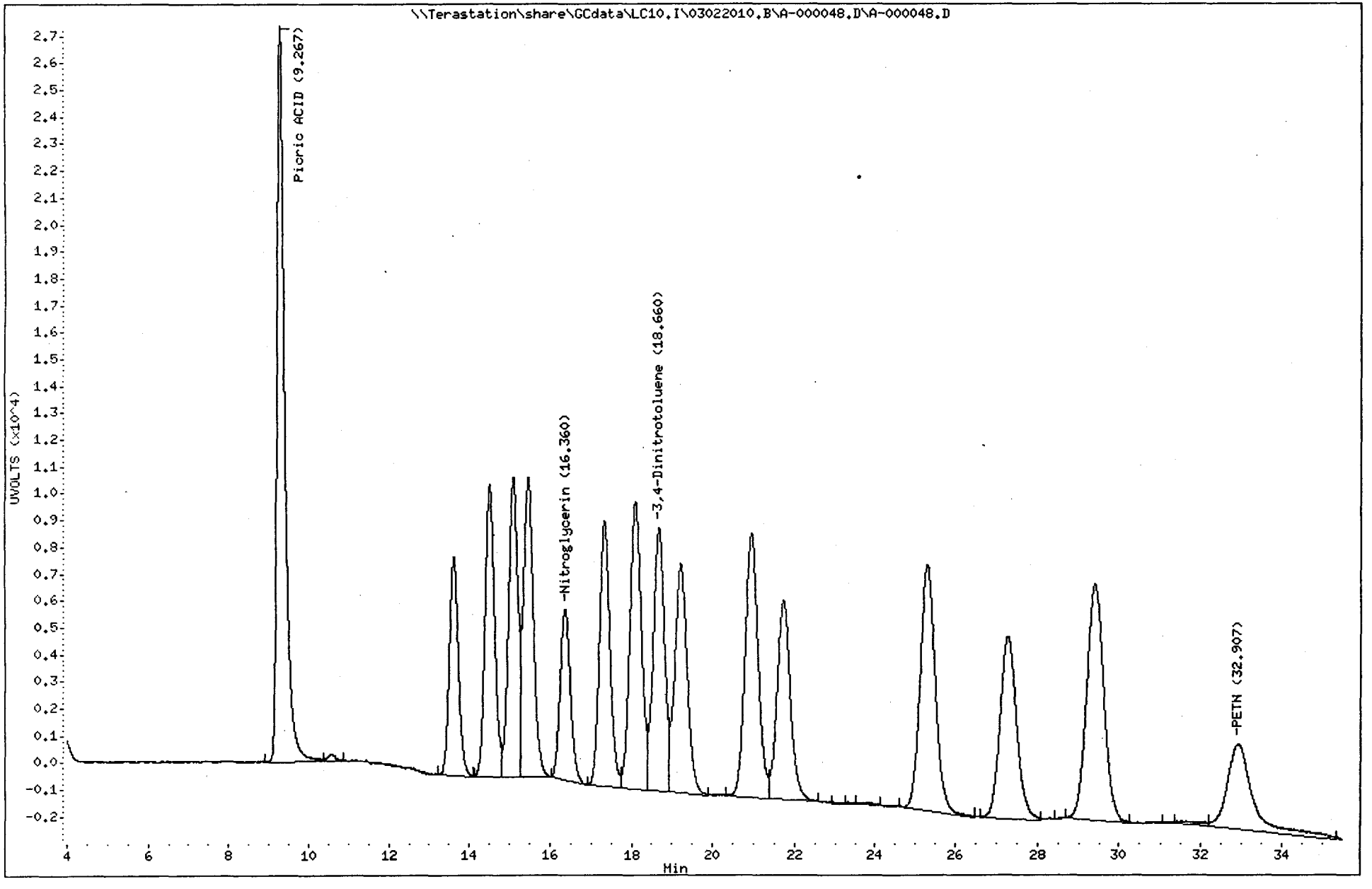
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.267	370762	27359	0.074	17.28		5 Picric ACID
10.567	3597	265	0.074	0.16		
13.604	124996	8122	0.065	5.09		
14.490	178210	10837	0.061	6.79		
15.077	177075	11146	0.063	6.99		
15.450	198709	11130	0.056	6.98		
16.360	107560	6348	0.059	3.98		11 Nitroglycerin
17.317	180380	9830	0.054	6.16		
18.084	209140	10659	0.051	6.68		
18.660	188930	9753	0.052	6.11	$	1 3,4-Dinitrotoluene
19.200	181788	8512	0.047	5.33		
20.937	214151	9819	0.046	6.15		
21.704	169656	7371	0.043	4.62		
22.950	691	84	0.122	0.05		
23.304	680	78	0.115	0.04		
23.554	1796	75	0.042	0.04		
25.284	240836	9157	0.038	5.74		
27.280	189317	6729	0.036	4.22		
28.627	282	41	0.145	0.02		
29.387	260990	8772	0.034	5.50		
31.034	526	52	0.099	0.03		
31.517	4387	93	0.021	0.05		
32.907	139839	3178	0.023	1.99		20 PETN
	3144298	159410		100.000		

Total unknown % height = 70.64

Data File: \\Terastation\share\GCdata\LC10,I\03022010,B\A-000048.D\A-000048.D
Date : 04-MAR-2010 00:51
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10,i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

A-000054.D

Chromatography Summary

Injection Date: 3/4/2010 5:42 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000054.D **Vial Num:** 56

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LV3R01AA 0056227 G0B250000-MB**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3R01AA 0056227 G0B250000-MB;0

Misc. Info: ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.62**	**-0.011**	**3188**	**528.9000<**		**18.63**	**-0.011**	**6162**	**505.0000**		**0.0000**	**0.00**	
HMX											12.1000	250.00	
RDX											12.0000	250.00	
Picric ACID											100.0000	1000.00	
1,3,5-Trinitrobenzene											10.0000	250.00	
1,3-Dinitrobenzene											4.2000	250.00	
TETRYL											10.0000	250.00	
Nitrobenzene											17.6000	250.00	
2,4,6-Trinitrotoluene											19.4000	250.00	
4-AM-2,6-DNT											10.0000	250.00	
2-AM-4,6-DNT											12.5000	300.00	
2,6-Dinitrotoluene											7.3000	250.00	
2,4-Dinitrotoluene											5.3000	250.00	
2-Nitrotoluene											13.0000	250.00	
4-Nitrotoluene											18.2000	500.00	
3-Nitrotoluene											15.5000	250.00	
Nitroglycerin											15.0000	500.00	
PETN											25.0000	500.00	
3,5-Dinitroaniline											8.8000	1300.00	

m 3/4/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**528.9000**	**106**	**500.0000**	**505.0000**	**101**	**(81-127)**

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000054.d
Lab Smp Id: LV3R01AA 0056227 G0
Inj Date : 04-MAR-2010 05:42
Operator : NS Inst ID: LC10.i
Smp Info : LV3R01AA 0056227 G0B250000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 56
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

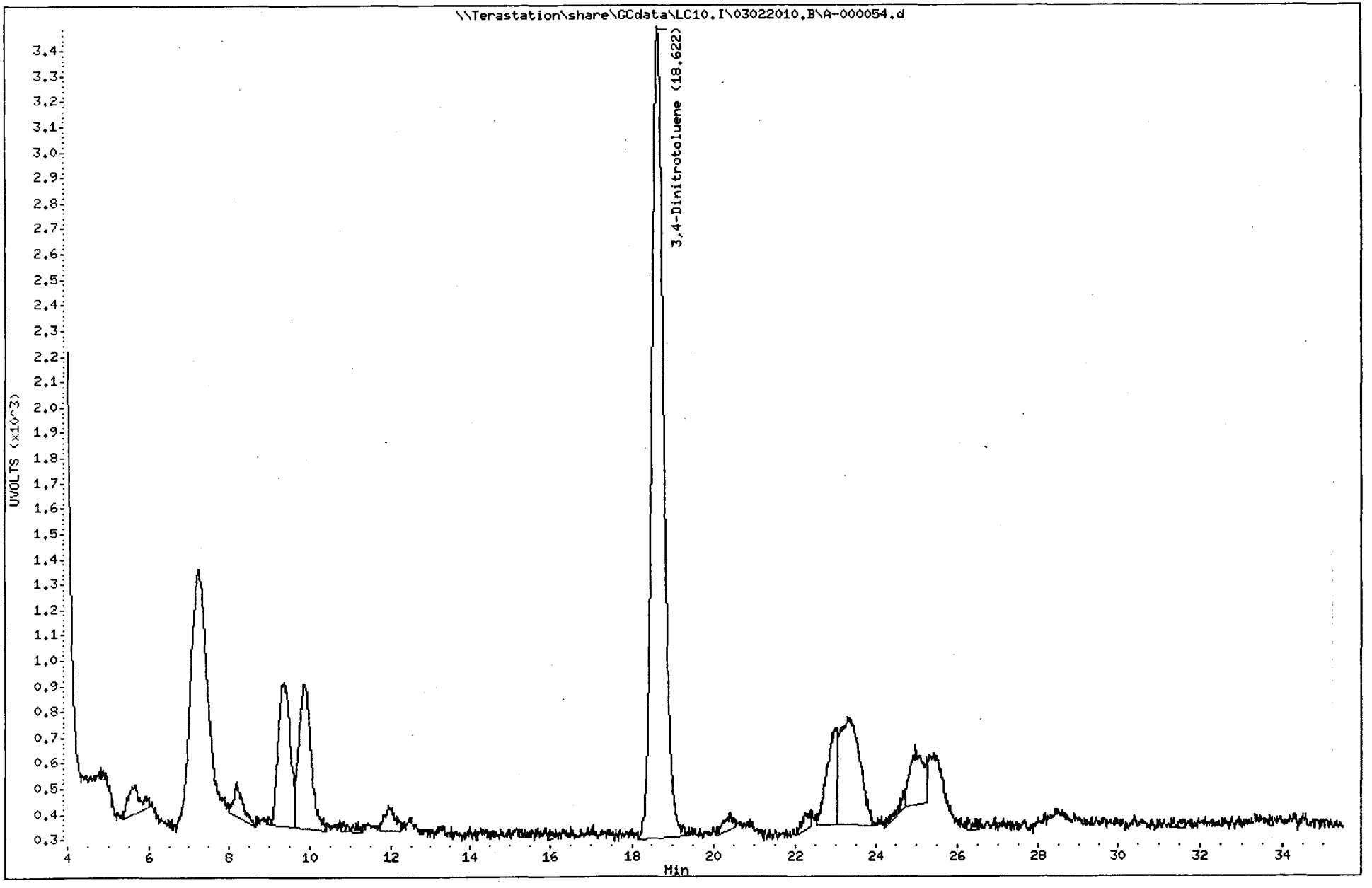
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.662	2371	113	0.048	1.83	
8.178	1996	131	0.066	2.12	
9.368	11479	559	0.049	9.06	
9.852	11985	567	0.047	9.19	
10.848	567	37	0.065	0.60	
11.942	1699	100	0.059	1.62	
15.288	308	34	0.110	0.55	
16.002	211	40	0.190	0.64	
18.622	62632	3188	0.051	51.80	$ 1 3,4-Dinitrotoluene
20.388	1027	70	0.068	1.13	
22.235	918	71	0.077	1.15	
23.002	6634	378	0.057	6.13	
23.278	14338	422	0.029	6.84	
24.308	124	33	0.266	0.53	
24.708	676	59	0.087	0.95	
24.962	4948	232	0.047	3.76	
26.472	434	47	0.108	0.76	
31.345	398	38	0.095	0.61	
33.678	158	45	0.285	0.73	
	122903	6164		100.000	

Total unknown % height = 48.20

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000054.d
Date : 04-MAR-2010 05:42
Client ID:
Sample Info: LV3R01AA 0056227 GOB250000-HB;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000054.d\A-000054
Lab Smp Id: LV3R01AA 0056227 G0
Inj Date : 04-MAR-2010 05:42
Operator : NS Inst ID: LC10.i
Smp Info : LV3R01AA 0056227 G0B250000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 56
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

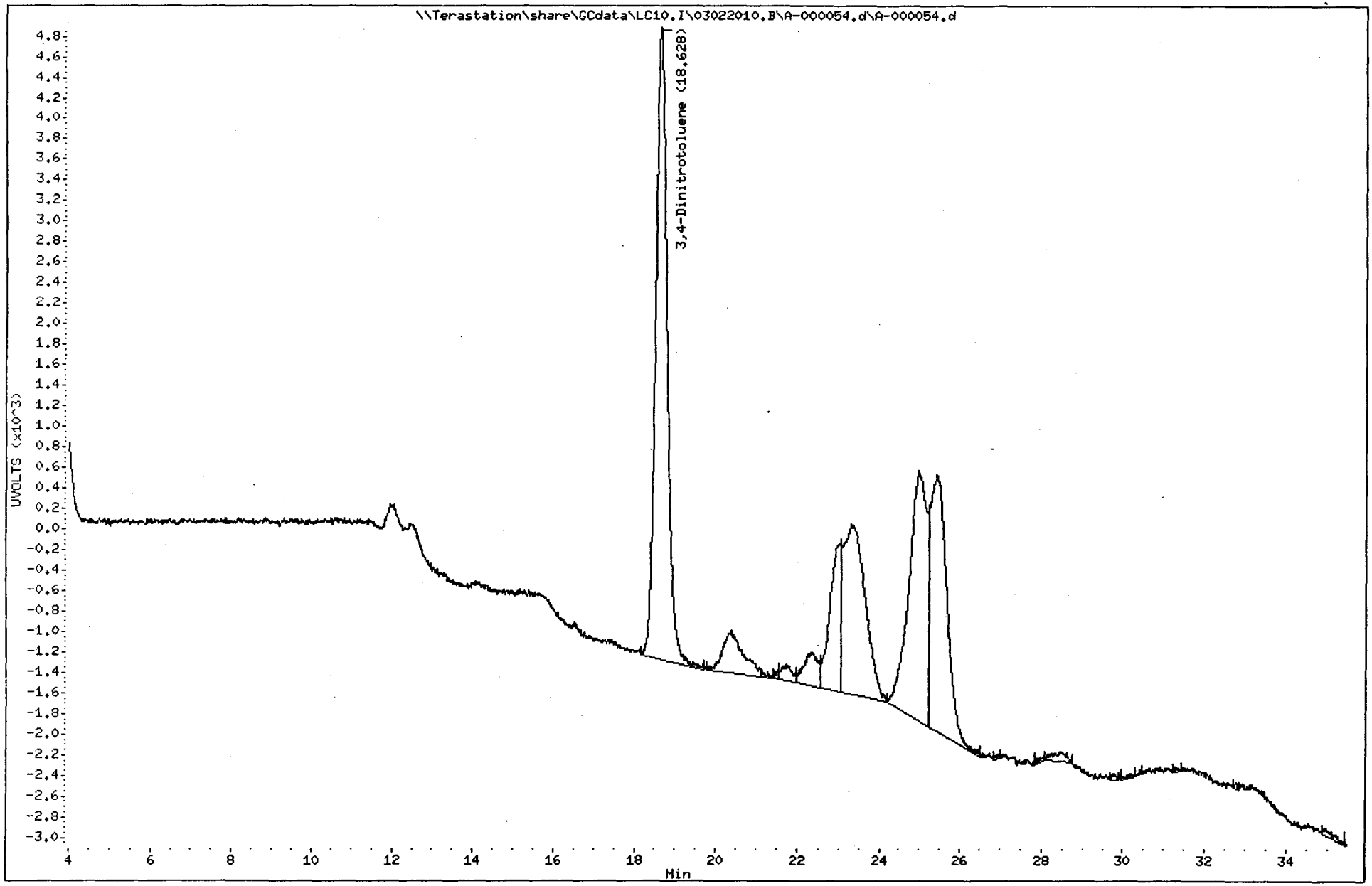
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.628	121902	6162	0.051	39.40	$ 1 3,4-Dinitrotoluene
20.378	14551	418	0.029	2.66	
21.492	363	82	0.226	0.52	
21.715	2741	158	0.058	1.00	
22.325	7821	328	0.042	2.09	
23.008	27434	1452	0.053	9.26	
23.278	61120	1651	0.027	10.53	
24.958	74887	2426	0.032	15.47	
25.402	70917	2495	0.035	15.92	
26.958	293	46	0.157	0.29	
28.042	362	35	0.097	0.22	
28.338	2343	84	0.036	0.53	
29.768	413	65	0.157	0.41	
30.275	409	27	0.066	0.17	
30.398	202	52	0.258	0.33	
31.302	302	50	0.166	0.31	
32.768	219	67	0.307	0.42	
34.982	1272	74	0.058	0.47	
	387553	15672		100.000	

Total unknown % height = 60.60

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000054.d\A-000054.d
Date : 04-MAR-2010 05:42
Client ID:
Instrument: LC10.i
Sample Info: LV3R01AA 0056227 G0B250000-MB;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



TestAmerica West Sacramento

A-000055.D

Chromatography Summary

Injection Date: 3/4/2010 6:30 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000055.D **Vial Num:** 57

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3R01AC 0056227 G0B250000-LCS**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:** SOLIDBQSM.sp

Samp. Info: LV3R01AC 0056227 G0B250000-LCS;3

Misc. Info: LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	18.70	2957	490.6000<	500	98%	Acceptable		18.70	6057	496.4000	500	99%	Acceptable		(81-127)	
HMX	5.45	8312	499.1000<	500	100%	Acceptable					500	0%	Fails		(75-125)	45
RDX	8.02	5665	502.3000<	500	100%	Acceptable					500	0%	Fails		(70-135)	45
Picric ACID				5000	0%	Fails					5000	0%	Fails		(70-130)	
1,3,5-Trinitrobenzene	10.59	10072	500.9000<	500	100%	Acceptable					500	0%	Fails		(75-125)	45
1,3-Dinitrobenzene	13.62	9728	495.6000<	500	99%	Acceptable					500	0%	Fails		(80-125)	45
TETRYL	15.12	4841	441.1000<	500	88%	Acceptable					500	0%	Fails		(10-150)	45
Nitrobenzene	15.48	4533	489.8000<	500	98%	Acceptable					500	0%	Fails		(75-125)	45
2,4,6-Trinitrotoluene	17.36	5467	457.7000<	500	92%	Acceptable					500	0%	Fails		(55-140)	45
4-AM-2,6-DNT	18.13	4277	480.0000<	500	96%	Acceptable					500	0%	Fails		(80-125)	45
2-AM-4,6-DNT	19.24	4894	482.4000<	500	96%	Acceptable					500	0%	Fails		(80-125)	45
2,6-Dinitrotoluene	20.97	3365	475.4000<	500	95%	Acceptable					500	0%	Fails		(80-120)	45
2,4-Dinitrotoluene	21.73	5529	481.4000<	500	96%	Acceptable					500	0%	Fails		(80-125)	45
2-Nitrotoluene	25.32	2665	523.5000<	500	105%	Acceptable					500	0%	Fails		(80-125)	45
4-Nitrotoluene	27.30	2984	490.1000<	500	98%	Acceptable					500	0%	Fails		(75-125)	45
3-Nitrotoluene	29.40	2910	484.9000<	500	97%	Acceptable					500	0%	Fails		(75-120)	45
Nitroglycerin				1000	0%	Fails		16.39	8008	1022.0000<	1000	102%	Acceptable		(74-112)	45
PETN				1000	0%	Fails		32.92	3884	982.9000<	1000	98%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14.52	6283	488.1000<	500	98%	Acceptable					500	0%	Fails		(40-140)	45

Surrogates:	Spiked	Recovered	%Rec		Spiked	Recovered	%Rec	Limits
3,4-Dinitrotoluene	500.0000	490.6000	98		500.0000	496.4000	99	(81-127)

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000055.d
Lab Smp Id: LV3R01AC 0056227 G0
Inj Date : 04-MAR-2010 06:30
Operator : NS Inst ID: LC10.i
Smp Info : LV3R01AC 0056227 G0B250000-LCS;3
Misc Info : LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 57 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

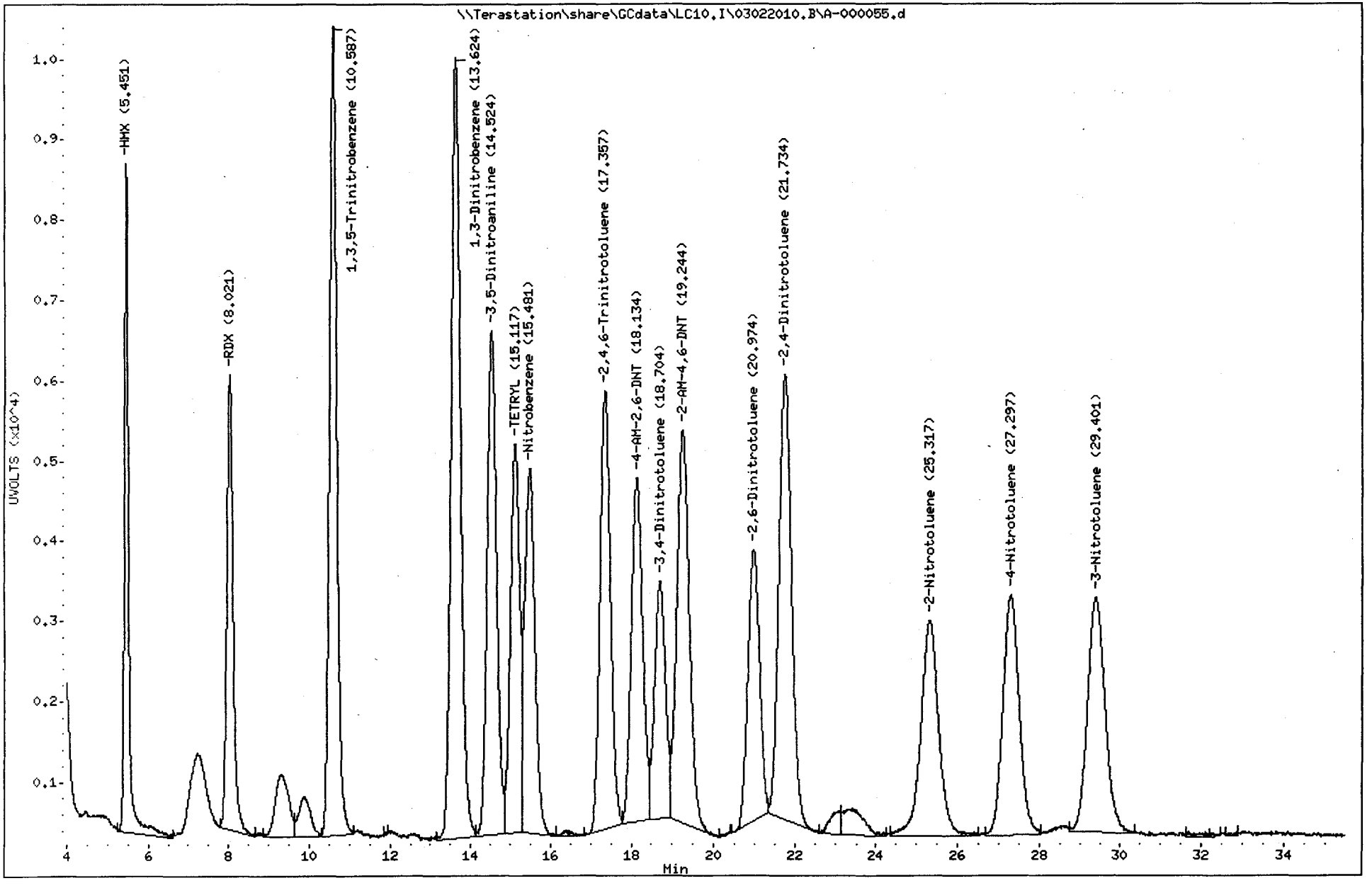
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.451	58232	8312	0.143	9.59		2 HMX
8.021	61062	5665	0.093	6.53		3 RDX
9.301	17771	764	0.043	0.88		
9.887	9860	485	0.049	0.55		
10.587	126719	10072	0.079	11.76		6 1,3,5-Trinitrobenze
11.917	78	23	0.293	0.02		
13.624	154833	9728	0.063	11.22		7 1,3-Dinitrobenzene
14.524	105697	6283	0.059	7.25		8 3,5-Dinitroaniline
15.117	76621	4841	0.063	5.58		9 TETRYL
15.481	81013	4533	0.056	5.23		10 Nitrobenzene
16.384	1386	82	0.059	0.09		
17.357	97847	5467	0.056	6.31		12 2,4,6-Trinitrotolue
18.134	81090	4277	0.053	4.93		13 4-AM-2,6-DNT
18.704	54491	2957	0.054	3.41	$	1 3,4-Dinitrotoluene
19.244	102402	4894	0.048	5.64		14 2-AM-4,6-DNT
20.394	291	38	0.131	0.04		
20.974	68209	3365	0.049	3.88		15 2,6-Dinitrotoluene
21.734	120395	5529	0.046	6.38		16 2,4-Dinitrotoluene
23.097	5089	280	0.055	0.32		
23.407	10925	321	0.029	0.37		
25.317	80252	2665	0.033	3.07		17 2-Nitrotoluene
27.297	83545	2984	0.036	3.44		18 4-Nitrotoluene
29.401	87375	2910	0.033	3.35		19 3-Nitrotoluene
31.711	948	55	0.058	0.06		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
32.281	356	51	0.143	0.05	
32.884	431	51	0.118	0.05	
	1486918	86632		100.000	

Total unknown % height = 2.430

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000055.d
Date : 04-MAR-2010 06:30
Client ID:
Sample Info: LV3R01AC 0056227 GOB250000-LCS:3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000055.d\A-000055
Lab Smp Id: LV3R01AC 0056227 G0
Inj Date : 04-MAR-2010 06:30
Operator : NS Inst ID: LC10.i
Smp Info : LV3R01AC 0056227 G0B250000-LCS;3
Misc Info : LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 57 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

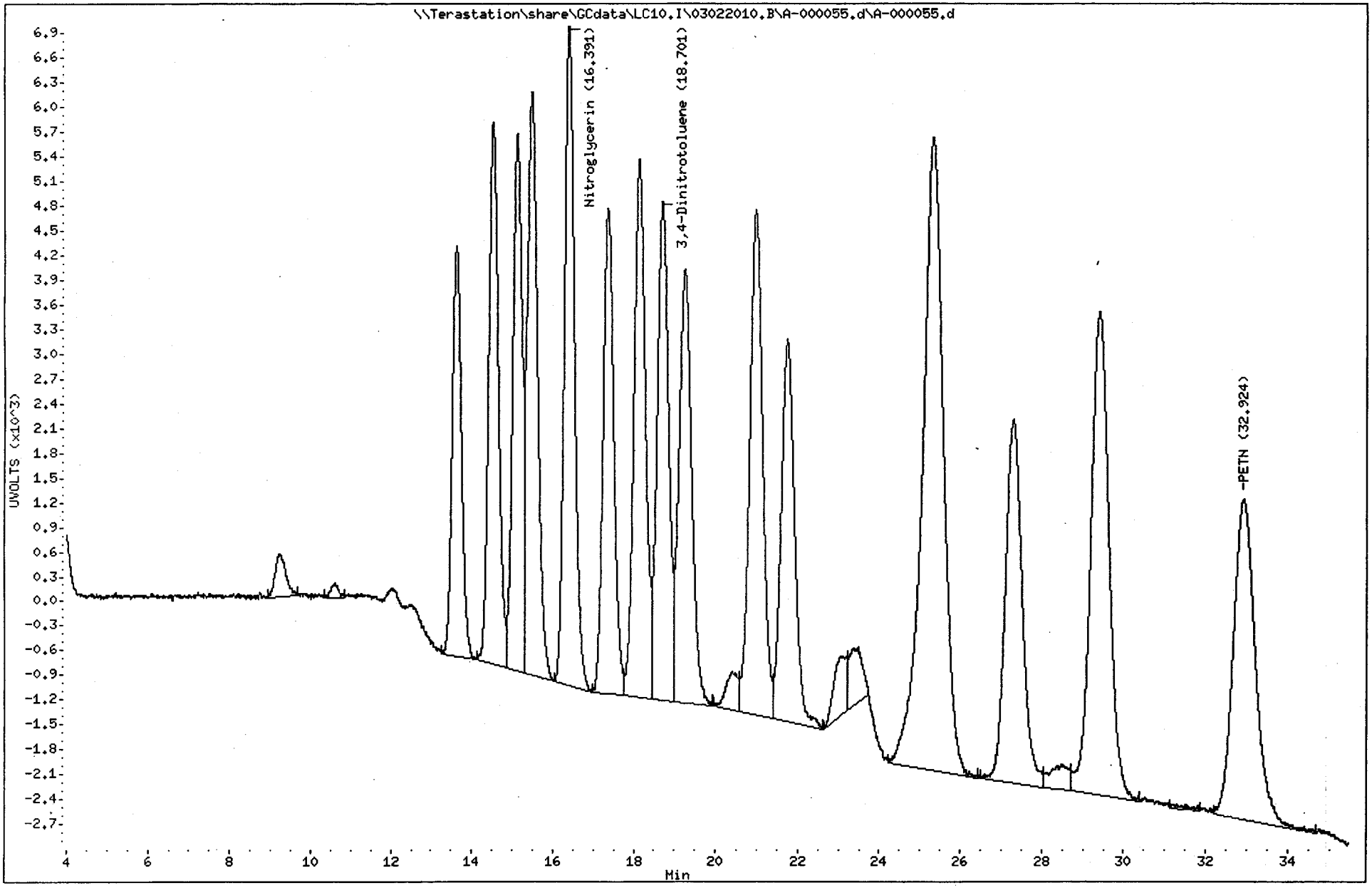
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.217	9843	526	0.053	0.56		
10.604	2464	182	0.074	0.19		
13.624	77476	4986	0.064	5.39		
14.521	110202	6587	0.060	7.12		
15.117	101687	6526	0.064	7.05		
15.477	128915	7087	0.055	7.66		
16.391	137575	8008	0.058	8.77		11 Nitroglycerin
17.354	107438	5886	0.055	6.36		
18.131	129006	6540	0.051	7.07		
18.701	117876	6057	0.051	6.54	$	1 3,4-Dinitrotoluene
19.247	113952	5271	0.046	5.69		
20.394	9161	453	0.049	0.48		
20.971	135466	6132	0.045	6.63		
21.741	105585	4636	0.044	5.01		
23.097	15772	707	0.045	0.76		
23.357	15102	704	0.047	0.76		
25.307	277415	7683	0.028	8.30		
27.297	127738	4421	0.035	4.78		
28.401	9550	286	0.030	0.30		
29.397	181052	5862	0.032	6.33		
31.184	1637	57	0.035	0.06		
32.924	143296	3884	0.027	4.19		20 PETN
	2058207	92481		100.000		

Total unknown % height = 80.50

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000055.d\A-000055.d
Date : 04-MAR-2010 06:30
Client ID:
Sample Info: LV3R01AC 0056227 G0B250000-LCS;3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000056.D

Chromatography Summary

Injection Date: 3/4/2010 7:19 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000056.D **Vial Num:** 58

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LVTQQ1A4 0056227 A0B180429-1**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.06 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTQQ1A4 0056227 A0B180429-1;0

Misc. Info: ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.67**	**-0.028**	**3202**	**528.0000<**		**18.66**	**-0.038**	**6353**	**517.5000**		**0.0000**	**0.00**	
HMX											12.0278	247.03	
RDX											11.9284	247.03	
Picric ACID											99.4036	988.11	
1,3,5-Trinitrobenzene											9.9404	247.03	
1,3-Dinitrobenzene											4.1750	247.03	
TETRYL	14.95	-0.158	271	24.5400<							9.9404	247.03	45
Nitrobenzene											17.4950	247.03	
2,4,6-Trinitrotoluene											19.2843	247.03	
4-AM-2,6-DNT											9.9404	247.03	
2-AM-4,6-DNT											12.4254	296.43	
2,6-Dinitrotoluene											7.2565	247.03	
2,4-Dinitrotoluene											5.2684	247.03	
2-Nitrotoluene											12.9225	247.03	
4-Nitrotoluene											18.0915	494.05	
3-Nitrotoluene											15.4076	247.03	
Nitroglycerin											14.9105	494.05	
PETN											24.8509	494.05	
3,5-Dinitroaniline											8.7475	1284.54	

not conf.

m 3/9/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.0179**	**528.0000**	**106**	**497.0179**	**517.5000**	**104**	**(81-127)**

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000056.d
Lab Smp Id: LVTQQ1A4 0056227 A0
Inj Date : 04-MAR-2010 07:19
Operator : NS Inst ID: LC10.i
Smp Info : LVTQQ1A4 0056227 A0B180429-1;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 08-Mar-2010 12:29 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 58
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

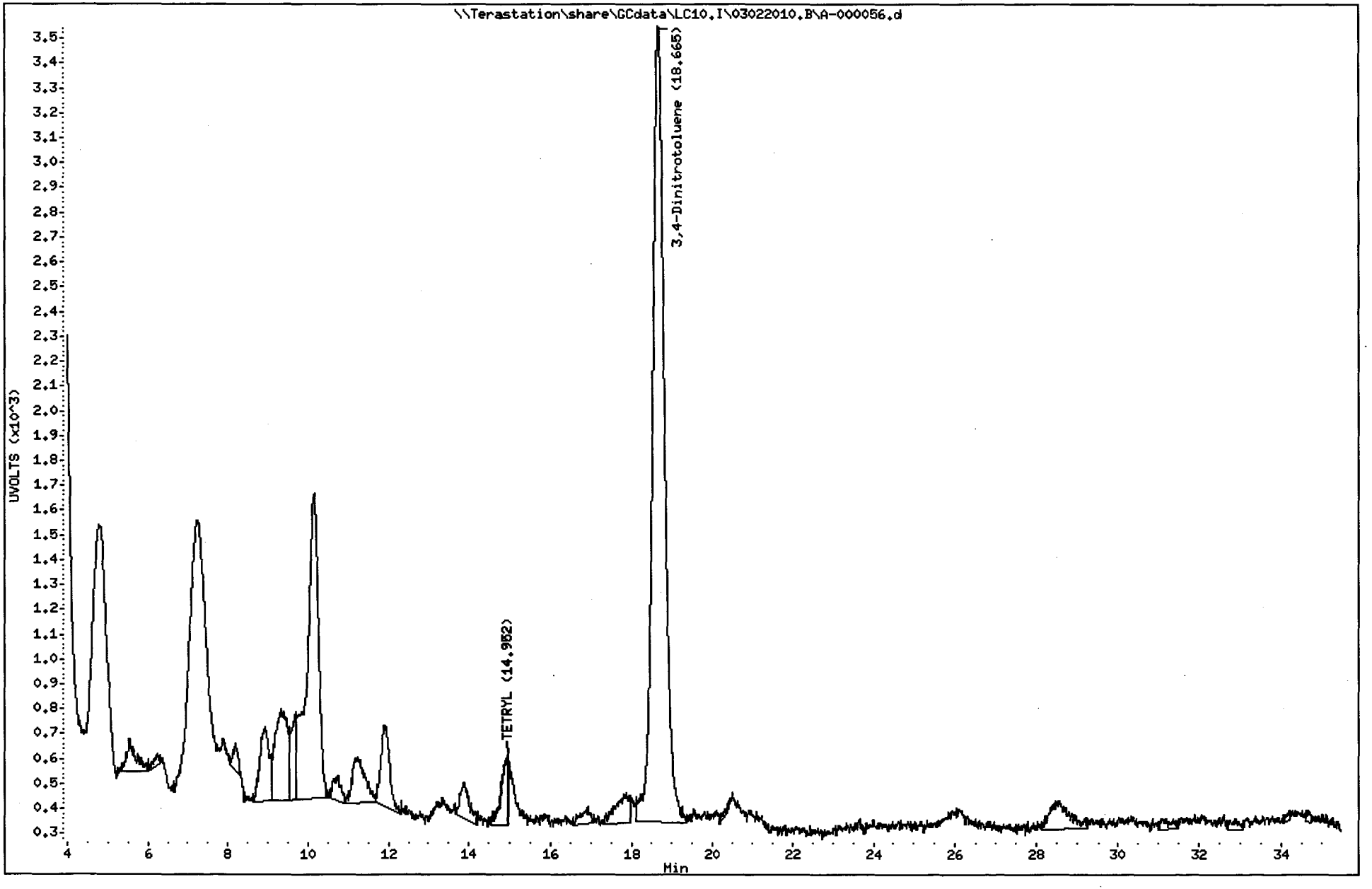
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.525	2034	132	0.065	1.84		
6.159	443	25	0.056	0.35		
8.172	826	83	0.100	1.16		
8.919	4795	301	0.063	4.21		
9.339	7840	367	0.047	5.14		
9.669	2941	344	0.117	4.81		
10.162	24838	1224	0.049	17.15		
10.649	1316	83	0.063	1.16		
11.212	4097	180	0.044	2.52		
11.895	4967	324	0.065	4.53		
13.865	2244	143	0.064	2.00		
14.952	2813	271	0.096	3.79		9 TETRYL
16.749	974	46	0.047	0.64		
17.795	2808	99	0.035	1.38		
18.665	64815	3202	0.049	44.95	$	1 3,4-Dinitrotoluene
20.349	230	23	0.100	0.32		
28.482	3965	118	0.030	1.65		
31.075	796	46	0.058	0.64		
32.775	580	40	0.069	0.56		
34.175	230	41	0.178	0.57		
34.682	248	45	0.181	0.63		
	133798	7137		100.000		

Total unknown % height = 51.26

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000056.d
Date : 04-MAR-2010 07:19
Client ID:
Instrument: LC10.i
Sample Info: LVTQQ1A4 0056227 A0B180429-1;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000056.d\A-000056
Lab Smp Id: LVTQQ1A4 0056227 A0
Inj Date : 04-MAR-2010 07:19
Operator : NS Inst ID: LC10.i
Smp Info : LVTQQ1A4 0056227 A0B180429-1;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 05-Mar-2010 13:10 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 58
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

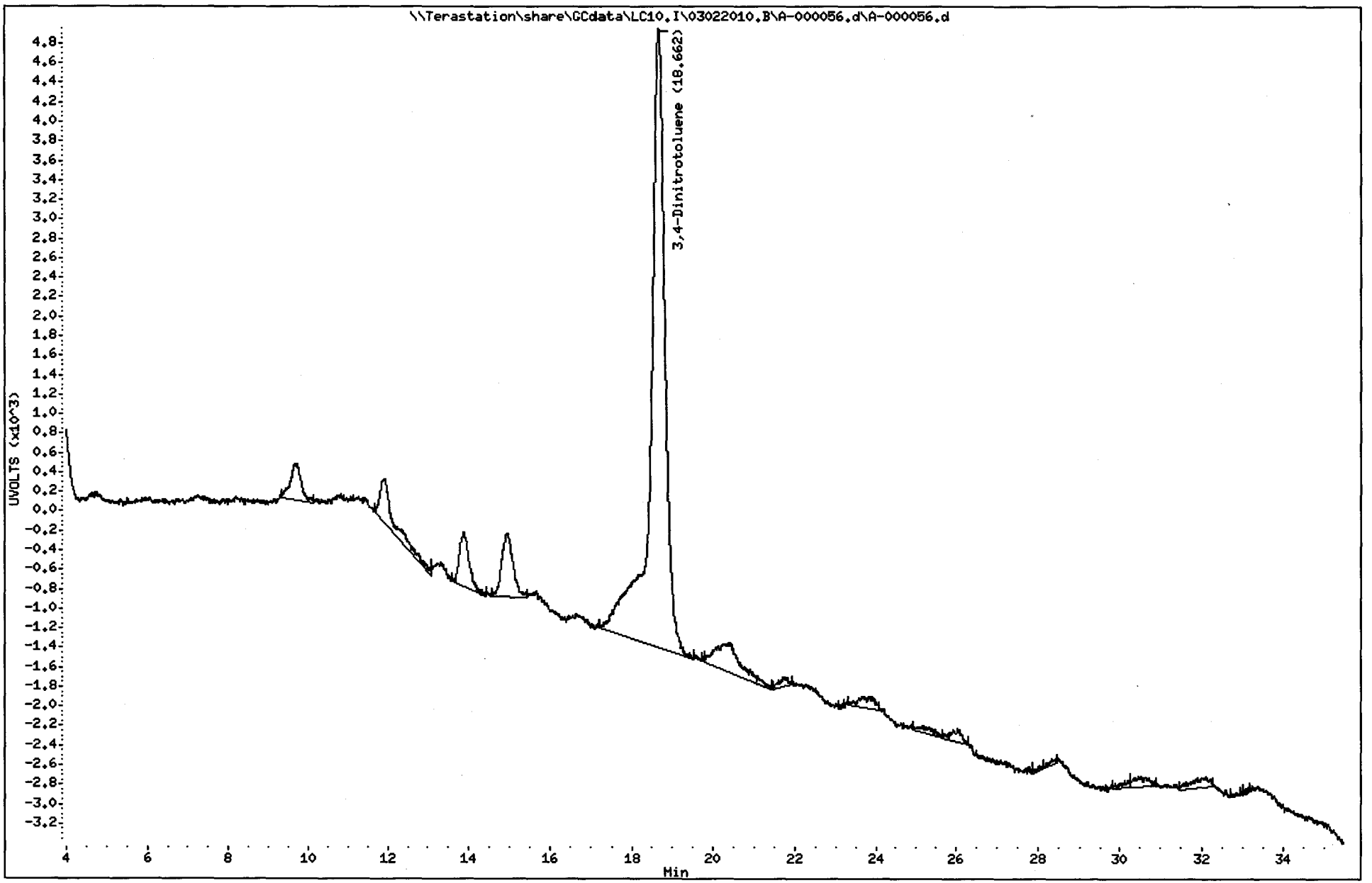
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.675	7419	380	0.051	3.95	
11.922	10513	450	0.043	4.67	
13.882	9253	560	0.061	5.82	
14.919	12749	651	0.051	6.76	
18.662	157891	6353	0.040	66.13	$ 1 3,4-Dinitrotoluene
19.785	276	90	0.326	0.93	
20.259	13012	270	0.021	2.80	
21.672	1394	74	0.053	0.76	
23.192	190	47	0.247	0.48	
23.715	3213	111	0.035	1.15	
25.149	1964	67	0.034	0.69	
25.922	2436	112	0.046	1.16	
28.035	388	50	0.129	0.51	
28.302	651	40	0.061	0.41	
30.239	983	77	0.078	0.80	
30.519	2652	108	0.041	1.12	
31.979	2901	93	0.032	0.96	
32.859	212	34	0.160	0.35	
33.142	347	53	0.153	0.55	
	228443	9620		100.000	

Total unknown % height = 33.87

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000056.d\A-000056.d
Date : 04-MAR-2010 07:19
Client ID:
Sample Info: LVTQQ1A4 0056227 A0B180429-1:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000057.D

Chromatography Summary

Injection Date: 3/4/2010 8:07 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000057.D **Vial Num:** 59

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LVTQ11AF 0056227 A0B180429-2**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.03 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTQ11AF 0056227 A0B180429-2;0

Misc. Info: ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.67**	**0.041**	**3147**	**520.5000<**		**18.68**	**0.045**	**6025**	**492.3000**		**0.0000**	**0.00**	
HMX											12.0638	248.51	
RDX											11.9641	248.51	
Picric ACID											99.7009	994.03	
1,3,5-Trinitrobenzene											9.9701	248.51	
1,3-Dinitrobenzene											4.1874	248.51	
TETRYL	14.95	-0.105	187	16.9900<							9.9701	248.51	45
Nitrobenzene											17.5474	248.51	
2,4,6-Trinitrotoluene											19.3420	248.51	
4-AM-2,6-DNT											9.9701	248.51	
2-AM-4,6-DNT											12.4626	298.21	
2,6-Dinitrotoluene											7.2782	248.51	
2,4-Dinitrotoluene											5.2841	248.51	
2-Nitrotoluene											12.9611	248.51	
4-Nitrotoluene											18.1456	497.01	
3-Nitrotoluene											15.4536	248.51	
Nitroglycerin											14.9551	497.01	
PETN						32.86	0.001	523	132.0000<		24.9252	497.01	45
3,5-Dinitroaniline											8.7737	1292.23	

not cont.

M 3/4/10

not cont

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**498.5045**	**520.5000**	**104**	**498.5045**	**492.3000**	**99**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/4/2010 12:08 PM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000057.d
Lab Smp Id: LVTQ11AF 0056227 A0
Inj Date : 04-MAR-2010 08:07
Operator : NS Inst ID: LC10.i
Smp Info : LVTQ11AF 0056227 A0B180429-2;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 59
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

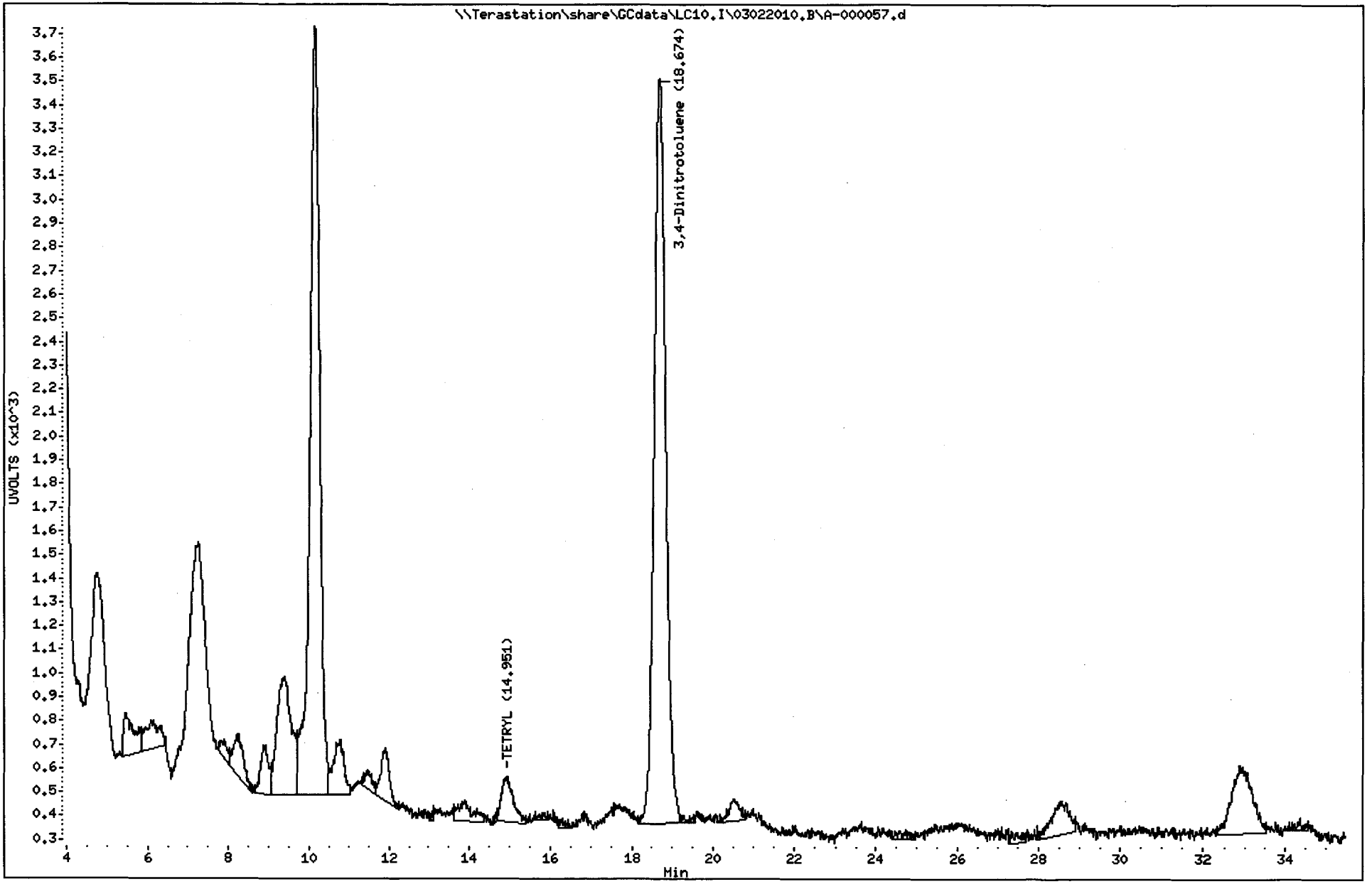
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.457	3178	183	0.058	1.97		
6.091	2877	120	0.042	1.29		
7.817	847	59	0.070	0.63		
8.210	2993	168	0.056	1.81		
8.867	2953	206	0.070	2.22		
9.387	12199	493	0.040	5.33		
10.147	54893	3244	0.059	35.21		
10.791	4461	232	0.052	2.50		
11.484	988	78	0.079	0.84		
11.911	3231	221	0.068	2.39		
13.114	163	45	0.277	0.48		
13.891	2150	89	0.041	0.96		
14.687	167	44	0.263	0.47		
14.951	3704	187	0.050	2.02		9 TETRYL
15.844	291	33	0.114	0.35		
16.304	264	43	0.163	0.46		
18.674	62334	3147	0.050	34.04	$	1 3,4-Dinitrotoluene
20.491	1731	95	0.055	1.02		
24.454	645	33	0.051	0.35		
27.487	670	42	0.063	0.45		
28.534	4120	144	0.035	1.55		
32.854	10044	289	0.029	3.12		
34.381	558	50	0.090	0.54		
	175460	9245		100.000		

Total unknown % height = 63.94

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000057.d
Date : 04-MAR-2010 08:07
Client ID:
Sample Info: LVTQ11AF 0056227 A0B180429-2;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000057.d\A-000057
Lab Smp Id: LVTQ11AF 0056227 A0
Inj Date : 04-MAR-2010 08:07
Operator : NS Inst ID: LC10.i
Smp Info : LVTQ11AF 0056227 A0B180429-2;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 59
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

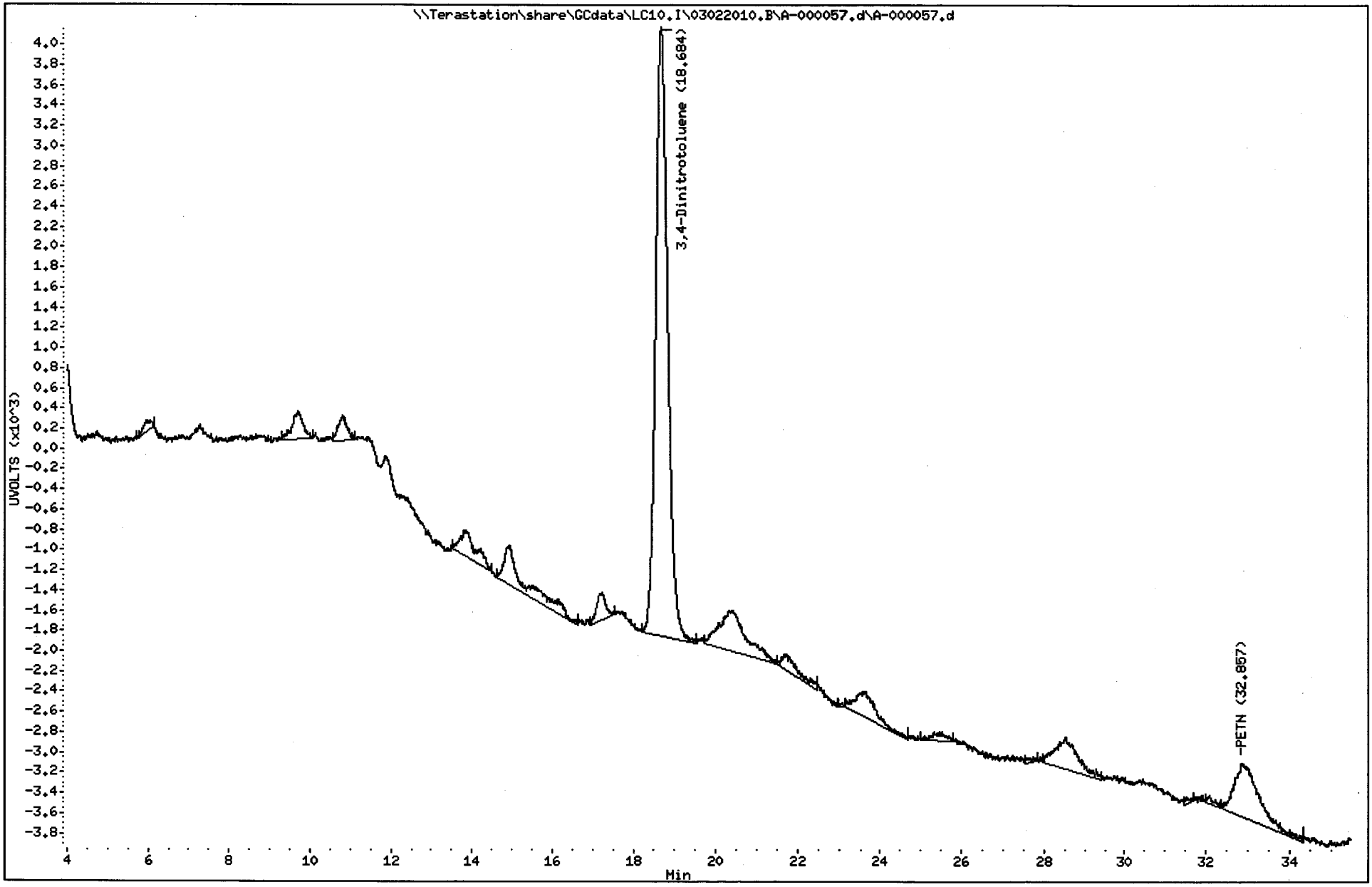
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.944	1412	122	0.086	1.28	
9.714	4931	266	0.054	2.79	
10.817	3675	246	0.067	2.58	
13.851	7021	258	0.037	2.70	
14.951	14195	392	0.028	4.11	
17.251	4493	266	0.059	2.79	
18.684	119295	6025	0.051	63.29	$ 1 3,4-Dinitrotoluene
20.394	18330	407	0.022	4.27	
21.664	4285	146	0.034	1.53	
23.081	195	43	0.221	0.45	
23.644	8533	253	0.030	2.65	
25.327	2139	85	0.040	0.89	
27.647	481	41	0.085	0.43	
28.524	11926	308	0.026	3.23	
31.534	463	61	0.132	0.64	
32.101	915	84	0.092	0.88	
32.857	21851	523	0.024	5.49	20 PETN
	224141	9526		100.000	

Total unknown % height = 31.22

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000057.d\A-000057.d
Date : 04-MAR-2010 08:07
Client ID:
Sample Info: LVTQ11AF 0056227 A0B180429-2;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



1705

North Canton

TestAmerica West Sacramento

A-000058.D

Chromatography Summary

Injection Date: 3/4/2010 8:56 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000058.D **Vial Num:** 60

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LVTQ21AF 0056227 A0B180429-3**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.02 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTQ21AF 0056227 A0B180429-3;0

Misc. Info: ;;;10.02;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.62**	**-0.009**	**3059**	**506.5000<**		**18.62**	**-0.019**	**5888**	**481.6000**		**0.0000**	**0.00**	
HMX											12.0758	249.00	
RDX											11.9760	249.00	
Picric ACID											99.8004	996.01	
1,3,5-Trinitrobenzene											9.9800	249.00	
1,3-Dinitrobenzene											4.1916	249.00	
TETRYL	14.90	-0.152	181	16.9600<							9.9800	249.00	45
Nitrobenzene											17.5649	249.00	
2,4,6-Trinitrotoluene											19.3613	249.00	
4-AM-2,6-DNT											9.9800	249.00	
2-AM-4,6-DNT											12.4751	298.80	
2,6-Dinitrotoluene											7.2854	249.00	
2,4-Dinitrotoluene											5.2894	249.00	
2-Nitrotoluene											12.9741	249.00	
4-Nitrotoluene											18.1637	498.01	
3-Nitrotoluene											15.4691	249.00	
Nitroglycerin											14.9701	498.01	
PETN											24.9501	498.01	
3,5-Dinitroaniline											8.7824	1294.82	

RT 66

ND

m 3/4/10

✓

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**499.0020**	**506.5000**	**102**	**499.0020**	**481.6000**	**97**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000058.d
Lab Smp Id: LVTQ21AF 0056227 A0
Inj Date : 04-MAR-2010 08:56
Operator : NS Inst ID: LC10.i
Smp Info : LVTQ21AF 0056227 A0B180429-3;0
Misc Info : ;;;10.02;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 60
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

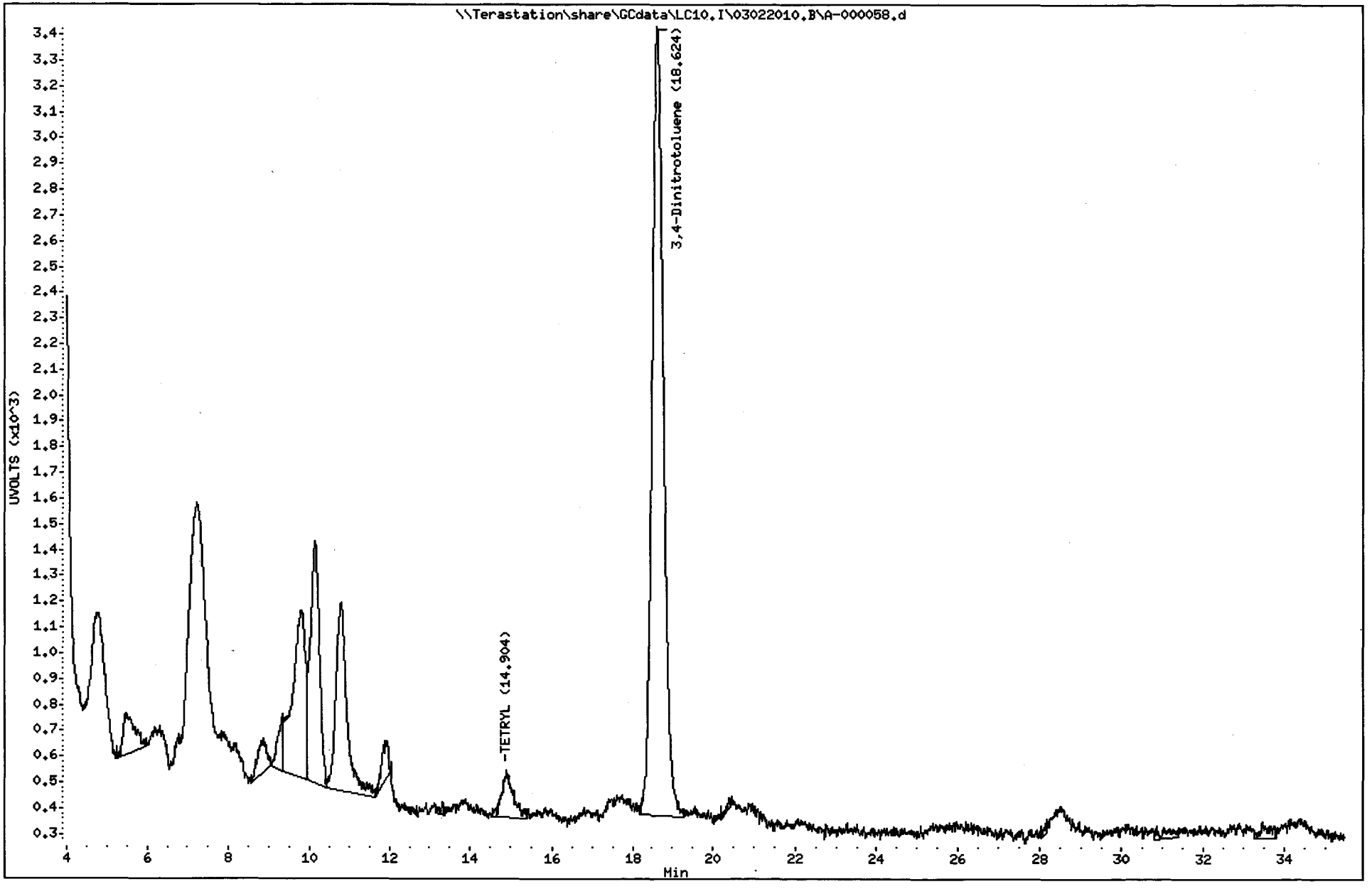
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.020	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.480	3264	164	0.050	2.53		
8.860	2044	132	0.065	2.04		
9.324	1816	213	0.117	3.29		
9.790	14641	645	0.044	9.98		
10.134	14830	937	0.063	14.50		
10.797	13996	725	0.052	11.22		
11.847	1698	147	0.087	2.27		
13.324	306	54	0.176	0.83		
14.904	3596	181	0.050	2.80		9 TETRYL
18.624	59691	3059	0.051	47.43	$	1 3,4-Dinitrotoluene
20.410	306	45	0.147	0.69		
28.164	231	48	0.208	0.74		
31.037	889	44	0.049	0.68		
33.460	927	65	0.070	1.00		
	118235	6459		100.000		

Total unknown % height = 49.77

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000058.d
Date : 04-MAR-2010 08:56
Client ID:
Sample Info: LVTQ21AF 0056227 A0B180429-3:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000058.d\A-000058
Lab Smp Id: LVTQ21AF 0056227 A0
Inj Date : 04-MAR-2010 08:56
Operator : NS Inst ID: LC10.i
Smp Info : LVTQ21AF 0056227 A0B180429-3;0
Misc Info : ;;;10.02;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 60
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

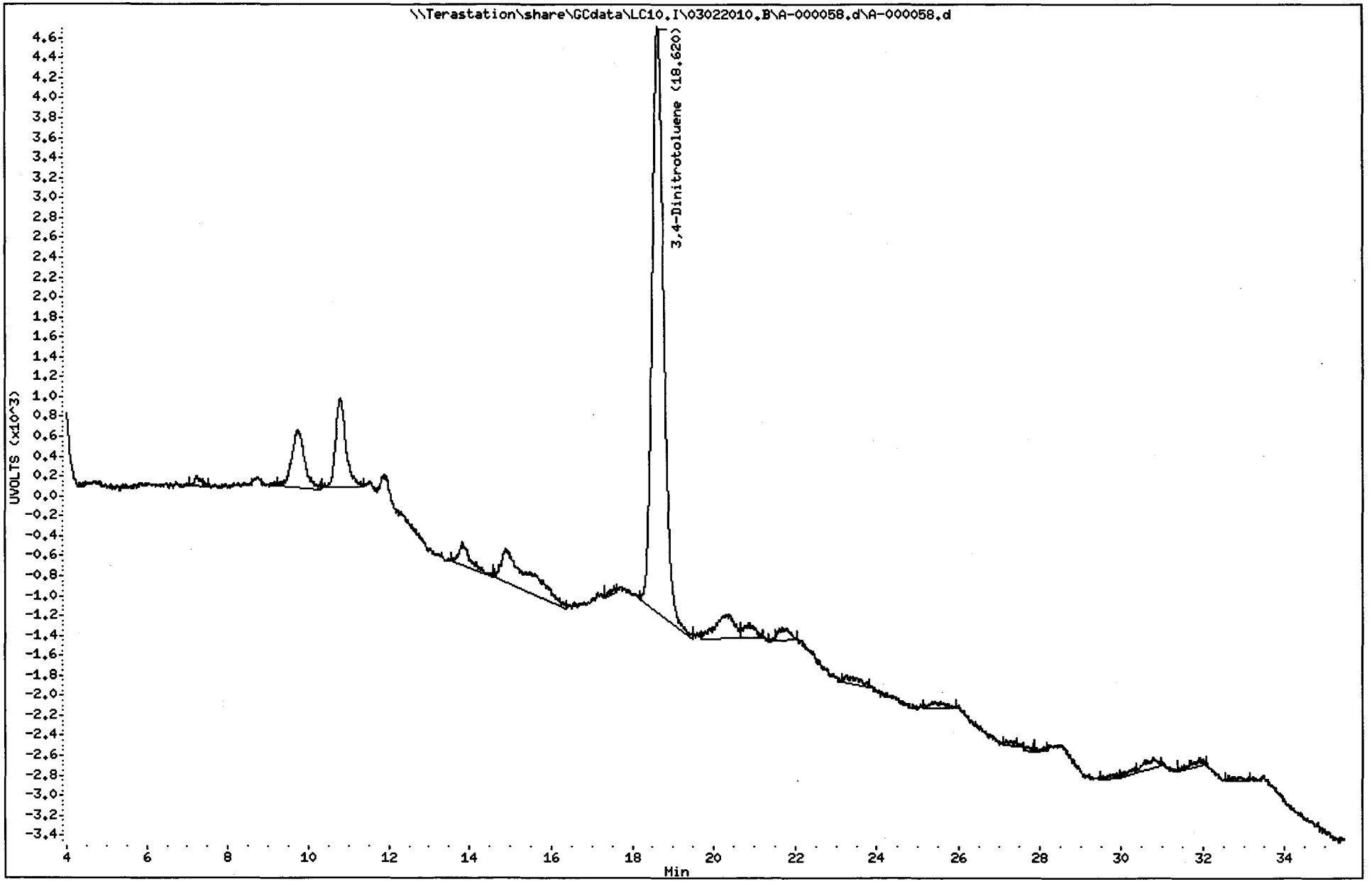
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.020	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
7.247	1151	100	0.087	1.07	
9.740	12766	584	0.046	6.25	
10.800	15991	893	0.056	9.57	
13.840	4718	236	0.050	2.52	
14.894	16635	334	0.020	3.57	
17.554	656	77	0.117	0.82	
18.620	115258	5888	0.051	63.21	$ 1 3,4-Dinitrotoluene
20.347	7978	244	0.031	2.61	
20.884	3016	157	0.052	1.68	
21.500	236	48	0.203	0.51	
21.664	2445	132	0.054	1.41	
23.260	1737	75	0.043	0.80	
25.350	1683	62	0.037	0.66	
27.167	664	57	0.086	0.61	
27.680	425	53	0.125	0.56	
28.114	351	40	0.114	0.42	
29.710	714	53	0.074	0.56	
30.317	850	62	0.073	0.66	
30.617	2160	94	0.044	1.00	
31.677	1537	81	0.053	0.86	
32.610	979	61	0.062	0.65	
	191950	9331		100.000	

Total unknown % height = 36.79

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000058.d\A-000058.d
Date : 04-MAR-2010 08:56
Client ID:
Sample Info: LVTQ21AF 0056227 A0B180429-3;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



1710

North Canton

TestAmerica West Sacramento

A-000059.D

Chromatography Summary

Injection Date: 3/4/2010 9:44 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000059.D **Vial Num:** 5

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.63	4762	98.7500<	100	-1%	Acceptable		18.64	9818	100.6000	100	1%	Acceptable		(±15)	
HMX	5.45	13299	99.8300<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
RDX	8.01	9290	103.0000<	100	3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Picric ACID	9.26	18773	214.2000	200	7%	Acceptable		9.26	27717	215.4000<	200	8%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.57	16346	101.6000<	100	2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
1,3-Dinitrobenzene	13.59	15818	100.7000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
TETRYL	15.06	8201	93.4000<	100	-7%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitrobenzene	15.43	7348	99.2500<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4,6-Trinitrotoluene	17.30	9100	95.2400<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-AM-2,6-DNT	18.06	6972	97.8000<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-AM-4,6-DNT	19.18	7907	97.4200<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,6-Dinitrotoluene	20.90	5503	97.1700<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4-Dinitrotoluene	21.68	8944	97.3500<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-Nitrotoluene	25.24	4026	98.8500<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-Nitrotoluene	27.23	4810	98.7500<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
3-Nitrotoluene	29.33	4724	98.3900<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitroglycerin				**100**	**-100%**	**Fails**		16.34	6356	101.4000<	100	1%	Acceptable		(±15)	45
PETN				**100**	**-100%**	**Fails**		32.86	3069	97.0800<	100	-3%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.47	10280	99.8200<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
EGDN				**100**	**-100%**	**Fails**					**100**	**-100%**	**Fails**		(±15)	

m 3/4/10

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000059.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 04-MAR-2010 09:44
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:28 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.446	85315	13299	0.156	8.50		2	HMX
8.013	95051	9290	0.098	5.94		3	RDX
8.716	898	88	0.098	0.05			
9.259	250459	18773	0.075	12.11		5	Picric ACID
10.569	206010	16346	0.079	10.45		6	1,3,5-Trinitrobenze
13.586	244138	15818	0.065	10.12		7	1,3-Dinitrobenzene
14.469	167725	10280	0.061	6.57		8	3,5-Dinitroaniline
15.056	129445	8201	0.063	5.24		9	TETRYL
15.433	127920	7348	0.057	4.70		10	Nitrobenzene
17.296	161000	9100	0.057	5.82		12	2,4,6-Trinitrotolue
18.059	129867	6972	0.054	4.46		13	4-AM-2,6-DNT
18.633	87064	4762	0.055	3.04	$	1	3,4-Dinitrotoluene
19.179	163736	7907	0.048	5.05		14	2-AM-4,6-DNT
20.903	110681	5503	0.050	3.52		15	2,6-Dinitrotoluene
21.683	193049	8944	0.046	5.72		16	2,4-Dinitrotoluene
23.863	210	40	0.190	0.02			
25.236	105372	4026	0.038	2.57		17	2-Nitrotoluene
27.229	135928	4810	0.035	3.07		18	4-Nitrotoluene
29.333	143370	4724	0.033	3.02		19	3-Nitrotoluene
33.532	899	55	0.061	0.03			
	2538138	156286		100.000			

Total unknown % height = 0.1000

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000059.D

Page 2

Date : 04-MAR-2010 09:44

Client ID:

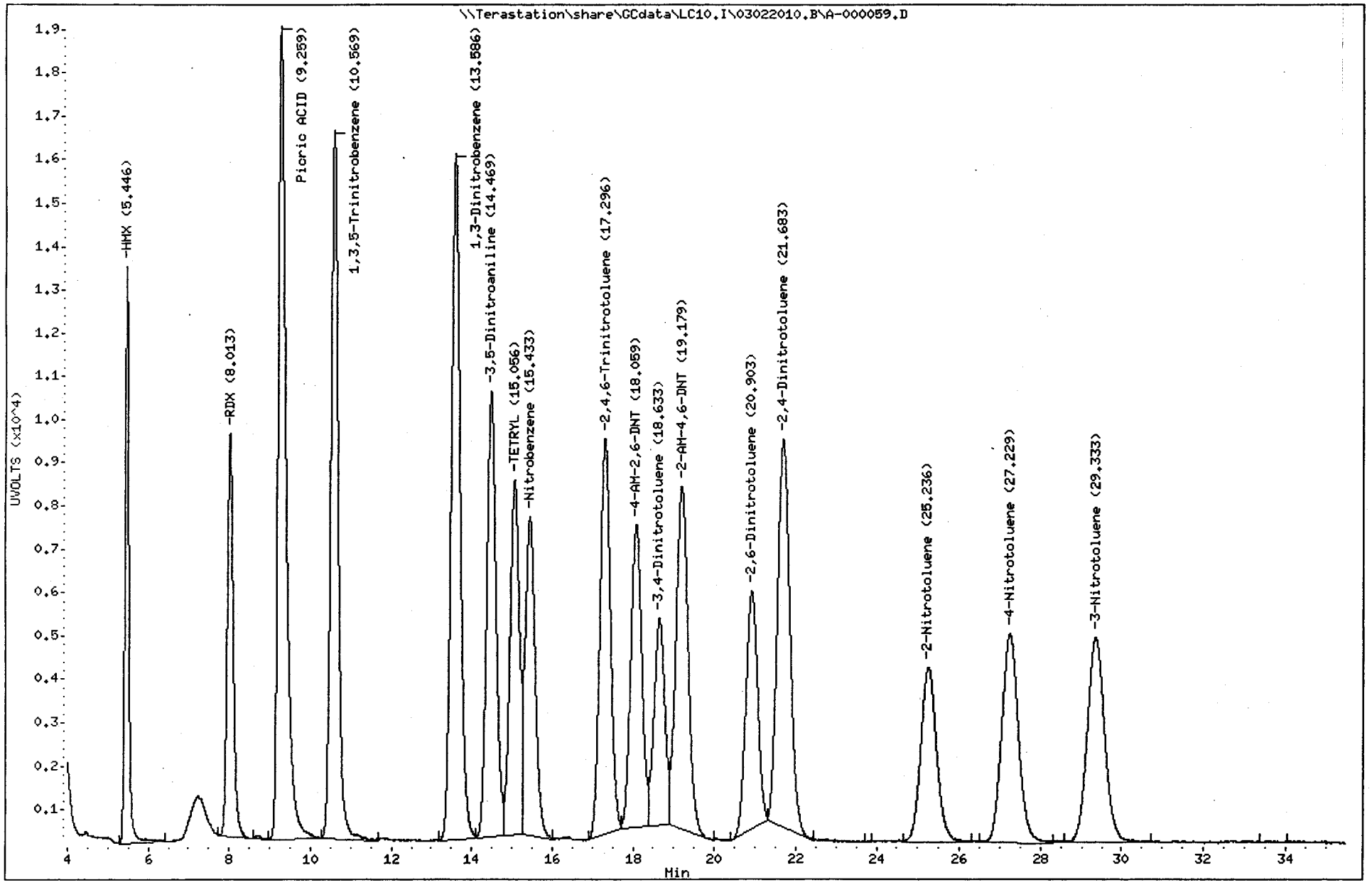
Instrument: LC10.i

Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



1713

North Canton

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000059.D\A-000059
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 04-MAR-2010 09:44
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:28 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

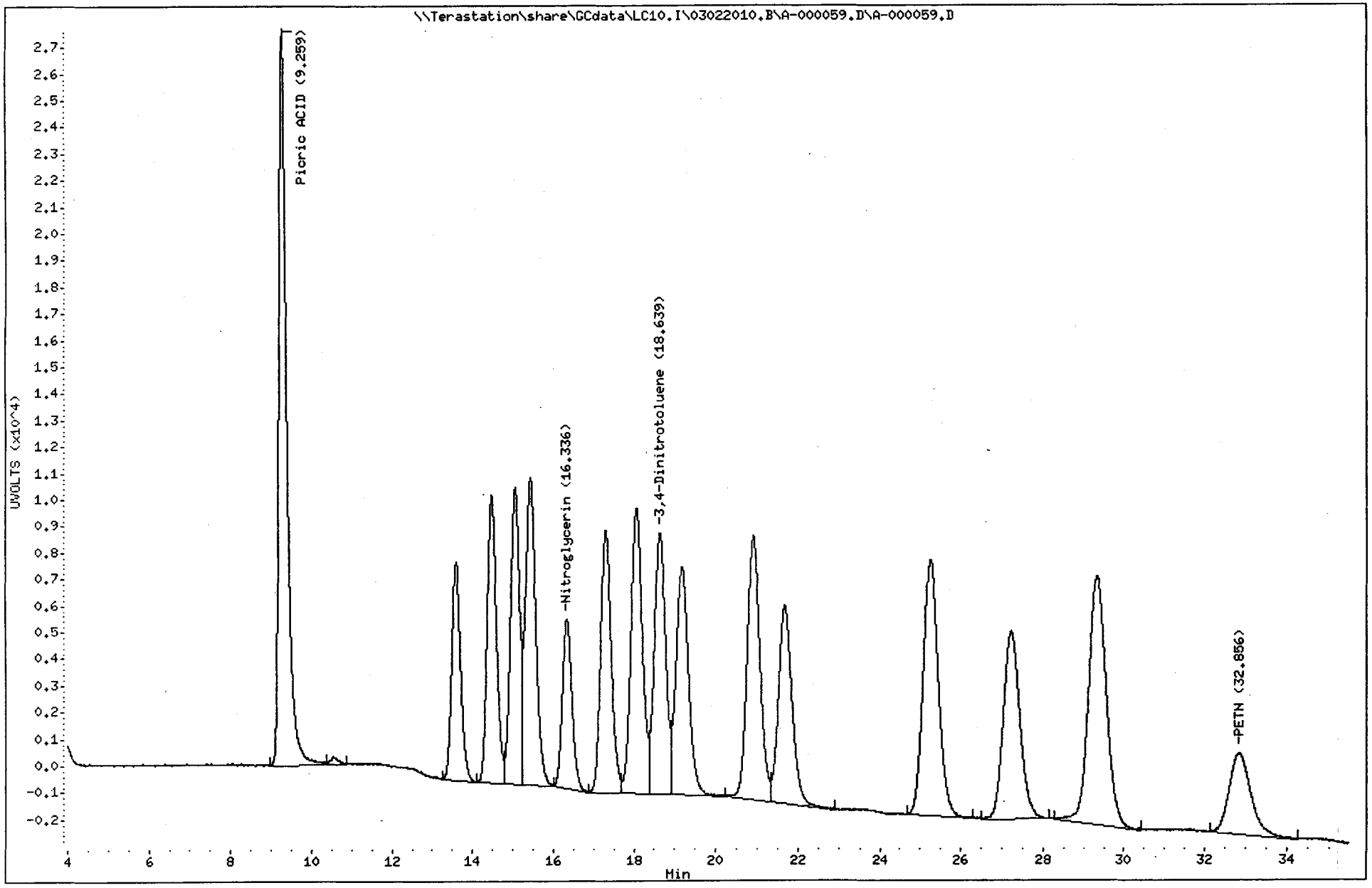
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
9.259	370763	27717	0.075	17.25		5	Picric ACID
10.549	4062	289	0.071	0.17			
13.586	125420	8185	0.065	5.07			
14.473	176417	10814	0.061	6.70			
15.059	175396	11149	0.064	6.90			
15.433	204197	11576	0.057	7.17			
16.336	106944	6356	0.059	3.93		11	Nitroglycerin
17.299	179792	9871	0.055	6.11			
18.059	210635	10719	0.051	6.64			
18.639	189790	9818	0.052	6.08	$	1	3,4-Dinitrotoluene
19.179	183215	8565	0.047	5.30			
20.903	213685	9905	0.046	6.13			
21.683	171586	7410	0.043	4.59			
25.243	248521	9615	0.039	5.95			
27.223	195982	7012	0.036	4.34			
29.329	282395	9313	0.033	5.77			
32.856	112988	3069	0.027	1.90		20	PETN
	3151787	161383		100.000			

Total unknown % height = 70.84

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000059.D\A-000059.D
Date : 04-MAR-2010 09:44
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



1715

North Canton

TestAmerica West Sacramento

A-000060.D

Chromatography Summary

Injection Date: 3/4/2010 10:33 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000060.D **Vial Num:** 61

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LVTQ31AF 0056227 A0B180429-4**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.01 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTQ31AF 0056227 A0B180429-4;0

Misc. Info: ;;;10.01;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.63**	**-0.060**	**3301**	**547.1000<**		**18.63**	**-0.074**	**6779**	**555.0000**		**0.0000**	**0.00**	
HMX	5.58	0.126	206	/12.3600< pb cont.							12.0879	249.50	45
RDX											11.9880	249.50	
Picric ACID											99.9001	998.00	
1,3,5-Trinitrobenzene											9.9900	249.50	
1,3-Dinitrobenzene											4.1958	249.50	
TETRYL	15.02	-0.087	1360	123.8000< not conf.							9.9900	249.50	45
Nitrobenzene											17.5824	249.50	
2,4,6-Trinitrotoluene											19.3806	249.50	
4-AM-2,6-DNT											9.9900	249.50	
2-AM-4,6-DNT											12.4875	299.40	
2,6-Dinitrotoluene											7.2927	249.50	
2,4-Dinitrotoluene											5.2947	249.50	
2-Nitrotoluene											12.9870	249.50	
4-Nitrotoluene											18.1818	499.00	
3-Nitrotoluene									not cont.		15.4845	249.50	
Nitroglycerin						16.43	0.043	680	86.6800<		14.9850	499.00	45
PETN											24.9750	499.00	
3,5-Dinitroaniline											8.7912	1297.40	

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**499.5005**	**547.1000**	**110**	**499.5005**	**555.0000**	**111**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000060.D
Lab Smp Id: LVTQ31AF 0056227 A0
Inj Date : 04-MAR-2010 10:33
Operator : NS Inst ID: LC10.i
Smp Info : LVTQ31AF 0056227 A0B180429-4;0
Misc Info : ;;;10.01;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 61
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

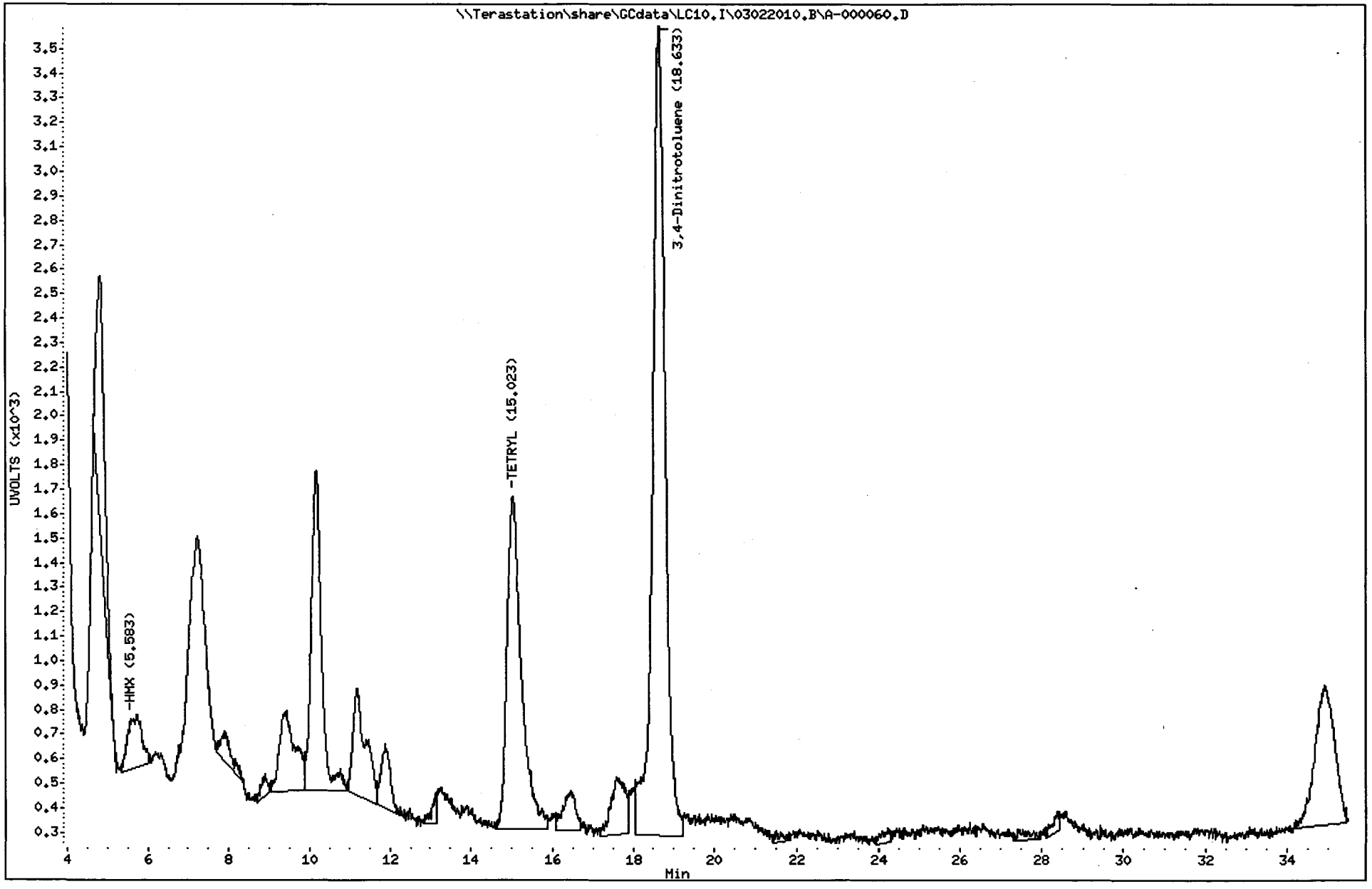
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
4.796	14013	981	0.070	10.11		
5.583	5301	206	0.039	2.12		2 HMX
7.899	2073	124	0.060	1.27		
8.896	873	91	0.104	0.93		
9.363	8932	317	0.035	3.26		
10.156	23388	1304	0.056	13.45		
11.189	9586	435	0.045	4.48		
11.883	4186	264	0.063	2.72		
13.133	1011	124	0.123	1.27		
15.023	33419	1360	0.041	14.02		9 TETRYL
16.443	3457	161	0.047	1.66		
17.589	5935	232	0.039	2.39		
18.633	70132	3301	0.047	34.15	$	1 3,4-Dinitrotoluene
21.489	500	45	0.090	0.46		
24.083	751	52	0.069	0.53		
27.476	987	46	0.047	0.47		
28.376	888	83	0.093	0.85		
34.926	19106	569	0.030	5.86		
	204537	9695		100.000		

Total unknown % height = 49.71

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000060.D
Date : 04-MAR-2010 10:33
Client ID:
Sample Info: LVTQ31AF 0056227 A0B180429-4;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000060.D\A-000060
Lab Smp Id: LVTQ31AF 0056227 A0
Inj Date : 04-MAR-2010 10:33
Operator : NS Inst ID: LC10.i
Smp Info : LVTQ31AF 0056227 A0B180429-4;0
Misc Info : ;;;10.01;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 61
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

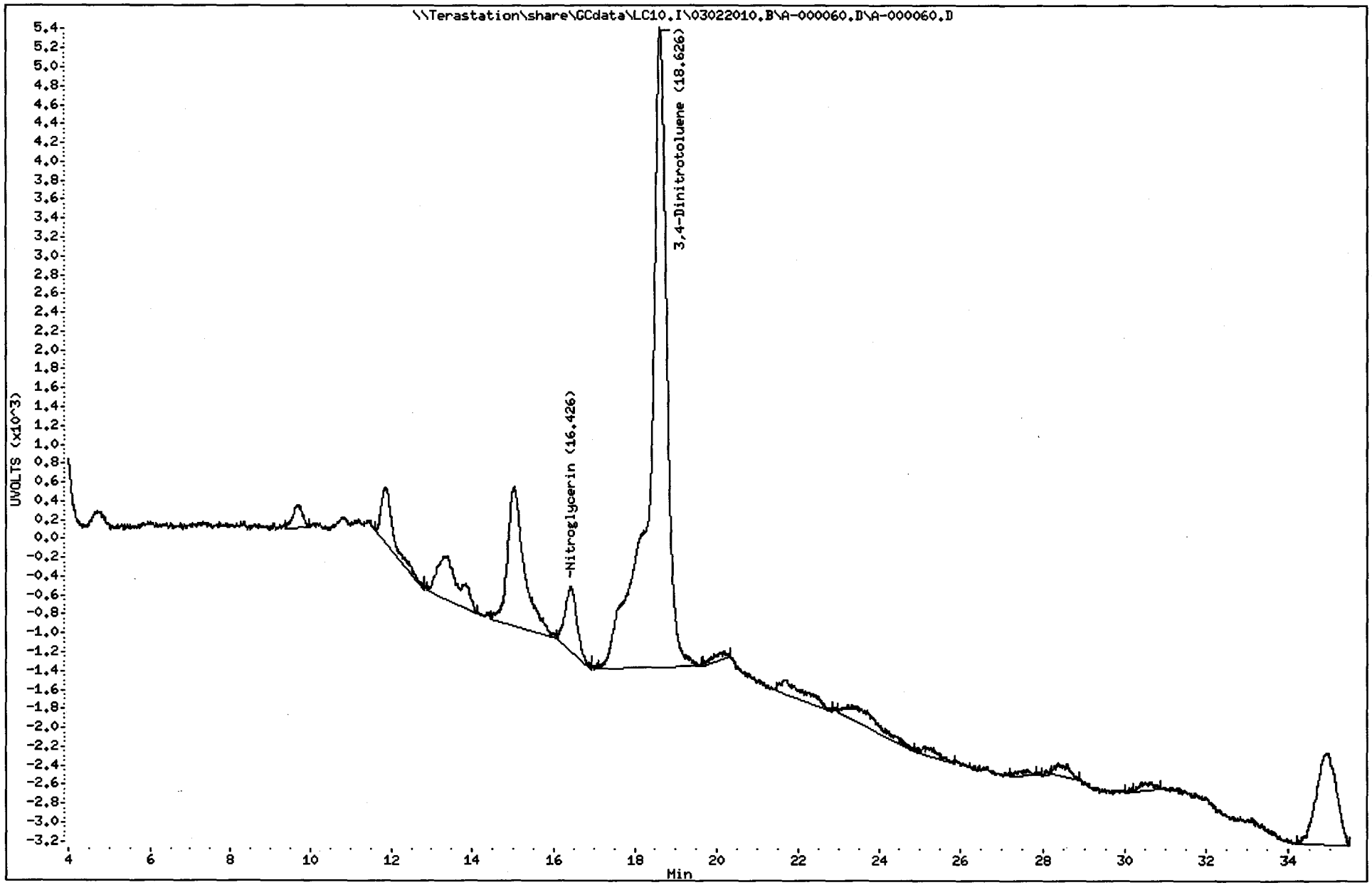
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.723	4149	242	0.058	2.00		
11.856	11961	584	0.049	4.84		
13.353	17079	460	0.027	3.81		
15.023	42106	1478	0.035	12.27		
16.426	14152	680	0.048	5.64		11 Nitroglycerin
18.626	198738	6779	0.034	56.38	$	1 3,4-Dinitrotoluene
20.026	2155	72	0.033	0.59		
21.706	7203	153	0.021	1.27		
23.233	9954	138	0.014	1.14		
25.103	2859	99	0.035	0.82		
27.453	1171	57	0.049	0.47		
28.173	400	65	0.163	0.53		
28.373	2986	130	0.044	1.07		
30.153	243	39	0.161	0.32		
30.493	2053	94	0.046	0.78		
34.963	33566	972	0.029	8.07		
	350773	12042		100.000		

Total unknown % height = 37.98

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000060.D\A-000060.D
Date : 04-MAR-2010 10:33
Client ID:
Sample Info: LVTQ31AF 0056227 A0B180429-4;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000061.D

Chromatography Summary

Injection Date: 3/4/2010 11:22 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000061.D **Vial Num:** 62

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LVTT01A7 0056227 A0B180429-12**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.02 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTT01A7 0056227 A0B180429-12;0

Misc. Info: ;;;10.02;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.64**	**0.011**	**3181**	**526.7000<**		**18.64**	**0.004**	**6176**	**505.1000**		**0.0000**	**0.00**	
HMX											12.0758	249.00	
RDX											11.9760	249.00	
Picric ACID											99.8004	996.01	
1,3,5-Trinitrobenzene											9.9800	249.00	
1,3-Dinitrobenzene											4.1916	249.00	
TETRYL	14.90	-0.153	143	13.0000<							9.9800	249.00	45
Nitrobenzene											17.5649	249.00	
2,4,6-Trinitrotoluene											19.3613	249.00	
4-AM-2,6-DNT											9.9800	249.00	
2-AM-4,6-DNT											12.4751	298.80	
2,6-Dinitrotoluene											7.2854	249.00	
2,4-Dinitrotoluene											5.2894	249.00	
2-Nitrotoluene											12.9741	249.00	
4-Nitrotoluene											18.1637	498.01	
3-Nitrotoluene											15.4691	249.00	
Nitroglycerin											14.9701	498.01	
PETN											24.9501	498.01	
3,5-Dinitroaniline											8.7824	1294.82	

RT OK

NO

mr 3/4/10

✓

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**499.0020**	**526.7000**	**106**	**499.0020**	**505.1000**	**101**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000061.D
Lab Smp Id: LVTT01A7 0056227 A0
Inj Date : 04-MAR-2010 11:22
Operator : NS Inst ID: LC10.i
Smp Info : LVTT01A7 0056227 A0B180429-12;0
Misc Info : ;;;10.02;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 62
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

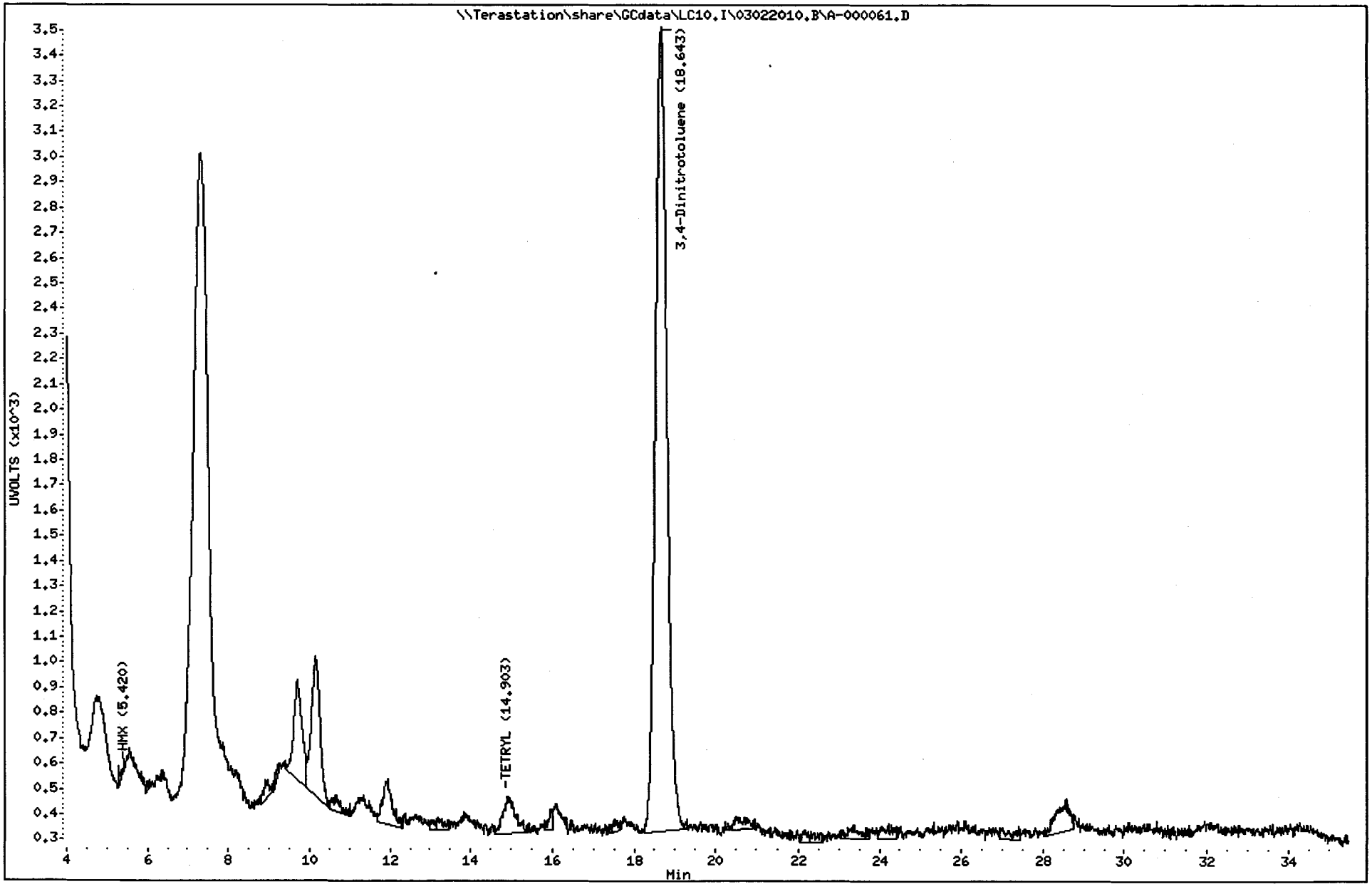
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.020	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.420	197	0	0.000	0.00		2 HMX
6.007	116	36	0.311	0.69		
8.900	685	80	0.117	1.53		
9.193	209	44	0.211	0.84		
9.693	5479	393	0.072	7.55		
10.140	8469	551	0.065	10.59		
10.640	841	64	0.076	1.23		
11.933	2814	176	0.063	3.38		
13.197	838	54	0.064	1.03		
14.903	2985	143	0.048	2.74		9 TETRYL
15.977	504	83	0.165	1.59		
17.523	503	49	0.097	0.94		
18.643	61564	3181	0.052	61.23	$	1 3,4-Dinitrotoluene
20.507	1131	54	0.048	1.03		
22.150	978	53	0.054	1.01		
23.317	1061	45	0.042	0.86		
24.053	963	50	0.052	0.96		
26.997	805	46	0.057	0.88		
28.413	2759	100	0.036	1.92		
	92901	5202		100.000		

Total unknown % height = 36.03

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000061.D
Date : 04-MAR-2010 11:22
Client ID:
Sample Info: LVTT01A7 0056227 A0B180429-12;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000061.D\A-000061
Lab Smp Id: LVTT01A7 0056227 A0
Inj Date : 04-MAR-2010 11:22
Operator : NS Inst ID: LC10.i
Smp Info : LVTT01A7 0056227 A0B180429-12;0
Misc Info : ;;;10.02;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 62
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

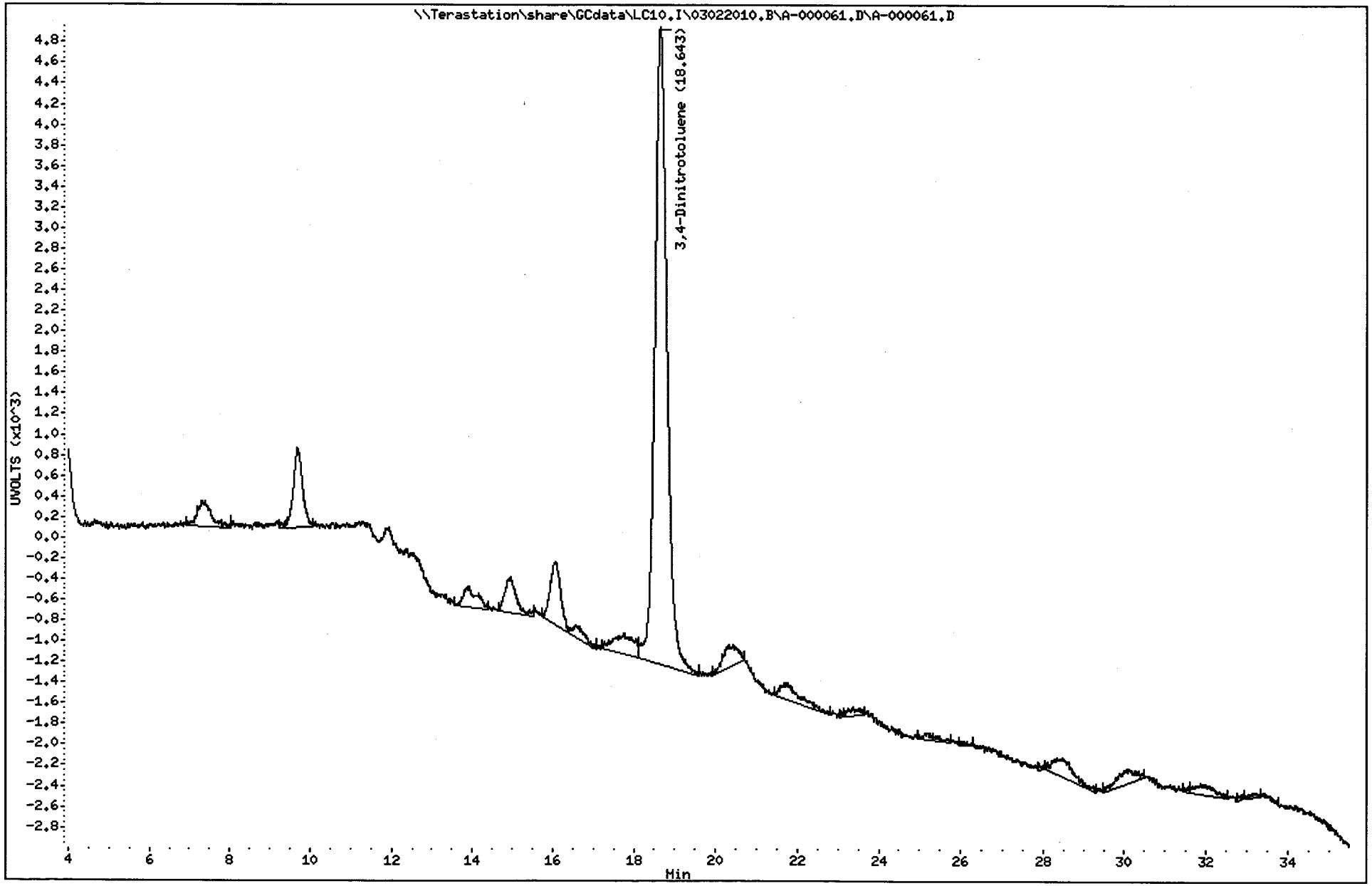
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.020	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
7.293	5901	242	0.041	2.46	
9.677	12754	773	0.061	7.88	
13.907	4437	200	0.045	2.03	
14.960	6990	353	0.050	3.60	
16.087	13607	608	0.045	6.20	
17.760	6836	208	0.030	2.12	
18.643	126555	6176	0.049	63.07	$ 1 3,4-Dinitrotoluene
20.333	5219	221	0.042	2.25	
21.680	5429	151	0.028	1.54	
23.093	175	55	0.315	0.56	
23.257	1546	79	0.051	0.80	
25.183	1592	72	0.045	0.73	
26.080	475	47	0.099	0.47	
27.903	258	60	0.233	0.61	
28.333	6616	156	0.024	1.59	
30.103	4680	141	0.030	1.43	
31.557	320	65	0.203	0.66	
31.860	3148	111	0.035	1.13	
32.880	320	51	0.159	0.52	
33.240	517	35	0.068	0.35	
	207374	9804		100.000	

Total unknown % height = 36.93

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000061.D\A-000061.D
Date : 04-MAR-2010 11:22
Client ID:
Sample Info: LVTT01A7 0056227 A0B180429-12:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000062.D

Chromatography Summary

Injection Date: 3/4/2010 12:10 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000062.D **Vial Num:** 63

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LVTT91A4 0056227 A0B180429-14**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.06 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTT91A4 0056227 A0B180429-14;0

Misc. Info: ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.64**	**0.006**	**3445**	**568.1000<**		**18.64**	**0.000**	**6286**	**512.1000**		**0.0000**	**0.00**	
HMX											12.0278	247.03	
RDX											11.9284	247.03	
Picric ACID											99.4036	988.11	
1,3,5-Trinitrobenzene											9.9404	247.03	
1,3-Dinitrobenzene											4.1750	247.03	
TETRYL											9.9404	247.03	
Nitrobenzene											17.4950	247.03	
2,4,6-Trinitrotoluene											19.2843	247.03	
4-AM-2,6-DNT											9.9404	247.03	
2-AM-4,6-DNT											12.4254	296.43	
2,6-Dinitrotoluene											7.2565	247.03	
2,4-Dinitrotoluene											5.2684	247.03	
2-Nitrotoluene											12.9225	247.03	
4-Nitrotoluene											18.0915	494.05	
3-Nitrotoluene											15.4076	247.03	
Nitroglycerin											14.9105	494.05	
PETN											24.8509	494.05	
3,5-Dinitroaniline											8.7475	1284.54	

MR 3/4/10

/

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.0179**	**568.1000**	**114**	**497.0179**	**512.1000**	**103**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000062.D
Lab Smp Id: LVTT91A4 0056227 A0
Inj Date : 04-MAR-2010 12:10
Operator : NS Inst ID: LC10.i
Smp Info : LVTT91A4 0056227 A0B180429-14;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 12:11 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

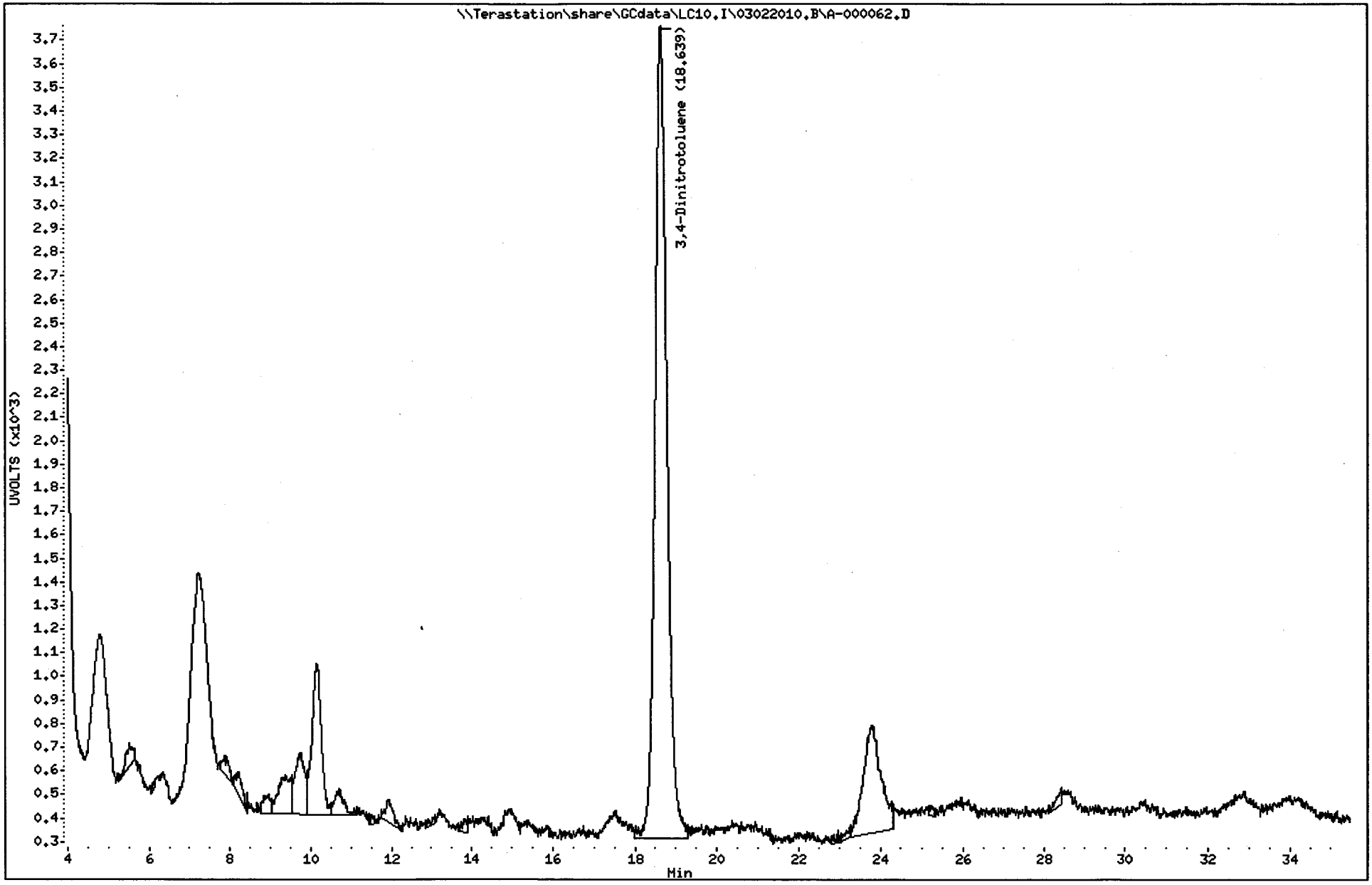
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.435	1243	88	0.071	1.50	
6.119	109	27	0.248	0.46	
7.862	940	80	0.085	1.36	
8.205	1085	98	0.090	1.67	
8.842	949	74	0.078	1.26	
9.365	3621	158	0.044	2.70	
9.759	4315	261	0.060	4.46	
10.149	10347	638	0.062	10.92	
10.655	1750	97	0.055	1.66	
11.479	291	43	0.148	0.73	
11.905	1385	96	0.069	1.64	
13.069	254	29	0.114	0.49	
13.805	441	58	0.132	0.99	
18.639	69628	3445	0.049	59.09	$ 1 3,4-Dinitrotoluene
22.865	117	38	0.326	0.65	
23.245	402	43	0.107	0.73	
23.825	13661	452	0.033	7.73	
25.212	245	44	0.179	0.75	
28.412	717	71	0.099	1.21	
	111500	5840		100.000	

Total unknown % height = 40.91

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000062.D
Date : 04-MAR-2010 12:10
Client ID:
Sample Info: LVTT91A4 0056227 A0B180429-14:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000062.D\A-000062
Lab Smp Id: LVTT91A4 0056227 A0
Inj Date : 04-MAR-2010 12:10
Operator : NS Inst ID: LC10.i
Smp Info : LVTT91A4 0056227 A0B180429-14;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

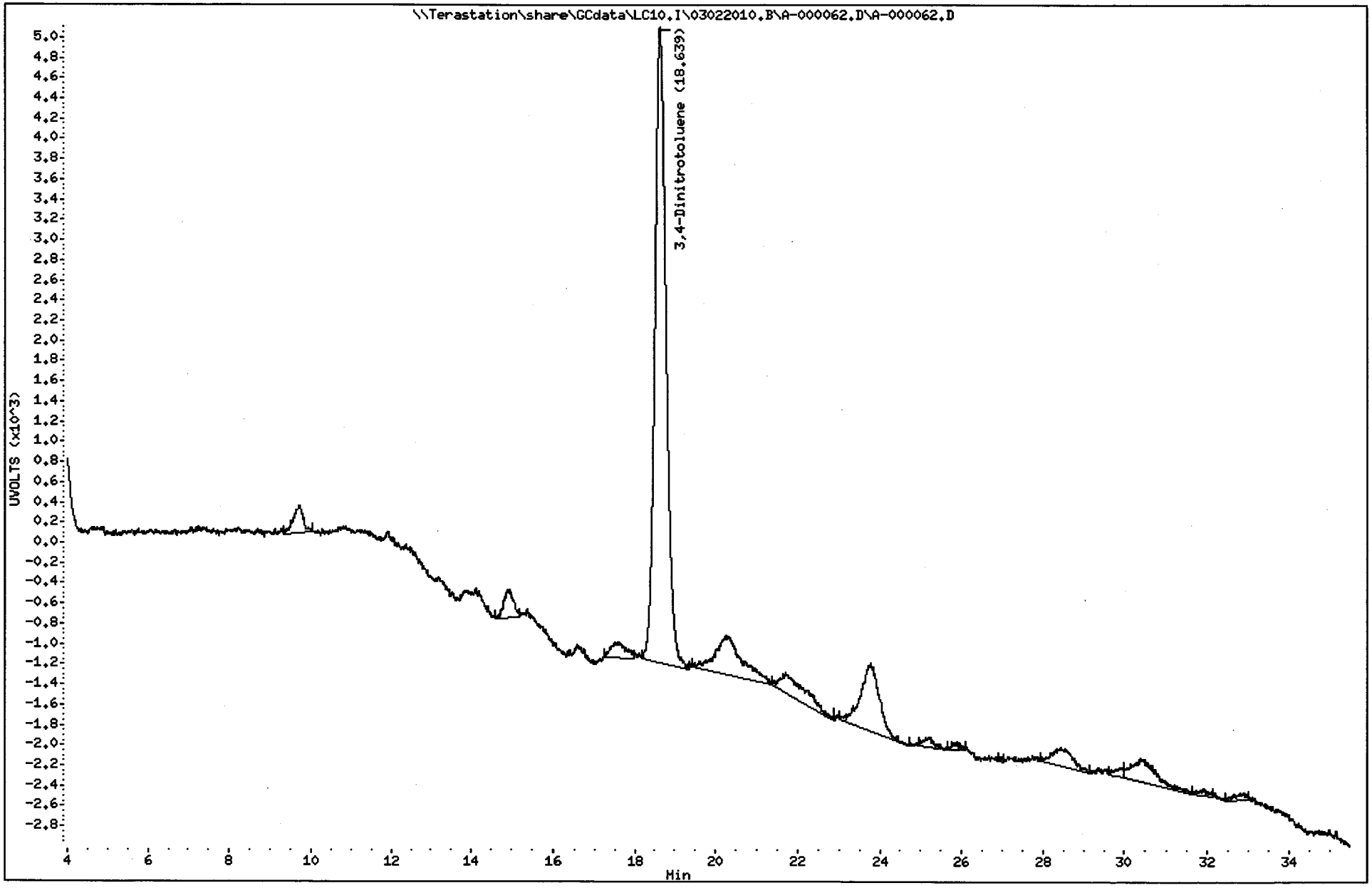
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.719	4574	269	0.059	2.95	
14.939	4902	287	0.059	3.15	
17.502	4052	151	0.037	1.65	
18.639	123342	6286	0.051	69.08	$ 1 3,4-Dinitrotoluene
20.252	17647	393	0.022	4.31	
21.709	9511	203	0.021	2.22	
23.782	21731	671	0.031	7.36	
25.205	1898	100	0.053	1.09	
25.769	982	80	0.081	0.87	
27.012	198	53	0.267	0.58	
28.435	6689	184	0.028	2.01	
29.905	1389	90	0.065	0.98	
30.379	9525	228	0.024	2.50	
31.729	1205	45	0.037	0.49	
32.662	1522	70	0.046	0.76	
	209168	9110		100.000	

Total unknown % height = 30.92

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000062.D\A-000062.D
Date : 04-MAR-2010 12:10
Client ID:
Sample Info: LVTT91A4 0056227 A0B180429-14;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000063.D

Chromatography Summary

Injection Date: 3/4/2010 12:59 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000063.D **Vial Num:** 64

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LVTVA1AF 0056227 A0B180429-15**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.05 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTVA1AF 0056227 A0B180429-15;0

Misc. Info: ;;;10.05;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.68**	**0.047**	**3705**	**611.6000<**		**18.69**	**0.050**	**6608**	**538.8000**		**0.0000**	**0.00**	
HMX	5.55	0.104	211	12.6000<	not cont.						12.0398	247.52	45
RDX											11.9403	247.52	
Picric ACID											99.5025	990.07	
1,3,5-Trinitrobenzene											9.9502	247.52	
1,3-Dinitrobenzene											4.1791	247.52	
TETRYL	14.93	-0.126	218	19.7600<	not cont.						9.9502	247.52	45
Nitrobenzene											17.5124	247.52	
2,4,6-Trinitrotoluene											19.3035	247.52	
4-AM-2,6-DNT											9.9502	247.52	
2-AM-4,6-DNT											12.4378	297.02	
2,6-Dinitrotoluene											7.2637	247.52	
2,4-Dinitrotoluene											5.2736	247.52	
2-Nitrotoluene											12.9353	247.52	
4-Nitrotoluene											18.1095	495.04	
3-Nitrotoluene											15.4229	247.52	
Nitroglycerin										✓ cont.	14.9254	495.04	
PETN						32.86	0.000	454	114.3000<		24.8756	495.04	45
3,5-Dinitroaniline											8.7562	1287.10	

MR 3/4/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.5124**	**611.6000**	**123**	**497.5124**	**538.8000**	**108**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 1:48 PM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000063.D
Lab Smp Id: LVTVA1AF 0056227 A0
Inj Date : 04-MAR-2010 12:59
Operator : NS Inst ID: LC10.i
Smp Info : LVTVA1AF 0056227 A0B180429-15;0
Misc Info : ;;;10.05;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 12:11 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 64
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

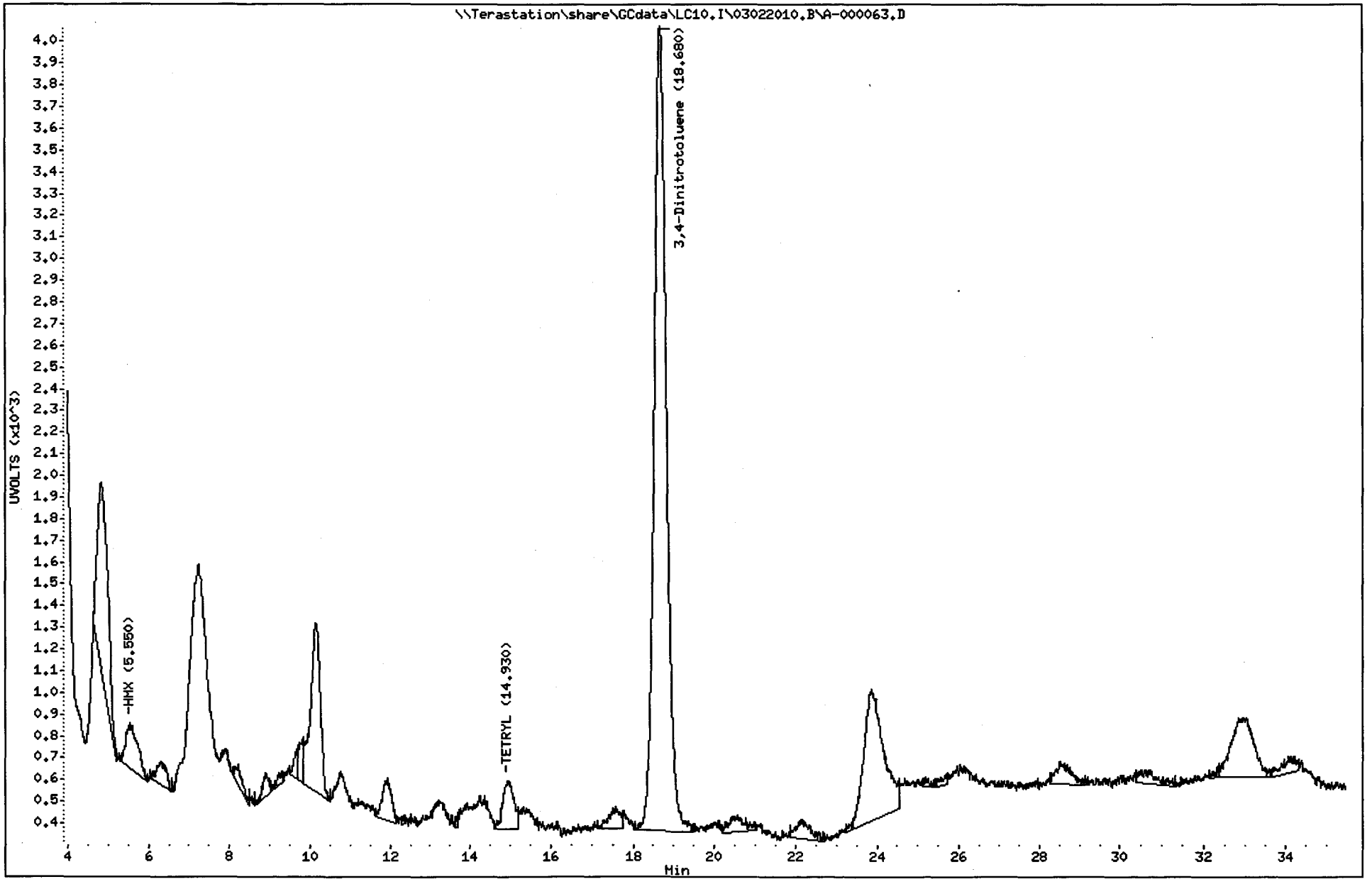
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
4.833	15523	849	0.055	10.35		
5.550	4246	211	0.050	2.57		2 HMX
6.233	1796	81	0.045	0.98		
8.146	1085	58	0.053	0.70		
8.893	1114	107	0.096	1.30		
9.243	531	52	0.098	0.63		
9.680	754	136	0.180	1.65		
9.813	1582	199	0.126	2.42		
10.143	13100	773	0.059	9.42		
11.890	2987	182	0.061	2.22		
12.353	112	42	0.375	0.51		
13.650	195	53	0.272	0.64		
14.930	4189	218	0.052	2.65		9 TETRYL
17.590	1872	103	0.055	1.25		
18.680	77096	3705	0.048	45.32	$	1 3,4-Dinitrotoluene
20.476	1911	70	0.037	0.85		
22.169	2209	89	0.040	1.08		
23.876	20421	601	0.029	7.33		
25.193	438	48	0.110	0.58		
25.693	498	50	0.100	0.60		
28.530	2726	102	0.037	1.24		
30.620	1670	60	0.036	0.73		
32.356	343	66	0.193	0.80		
32.849	10749	269	0.025	3.28		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
34.086	1699	74	0.044	0.90	
	168847	8198		100.000	

Total unknown % height = 49.46

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000063.D
Date : 04-MAR-2010 12:59
Client ID:
Sample Info: LVTVA1AF 0056227 A0B180429-15;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



1734

North Canton

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000063.D\A-000063
Lab Smp Id: LVTVA1AF 0056227 A0
Inj Date : 04-MAR-2010 12:59
Operator : NS Inst ID: LC10.i
Smp Info : LVTVA1AF 0056227 A0B180429-15;0
Misc Info : ;;;10.05;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 64
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

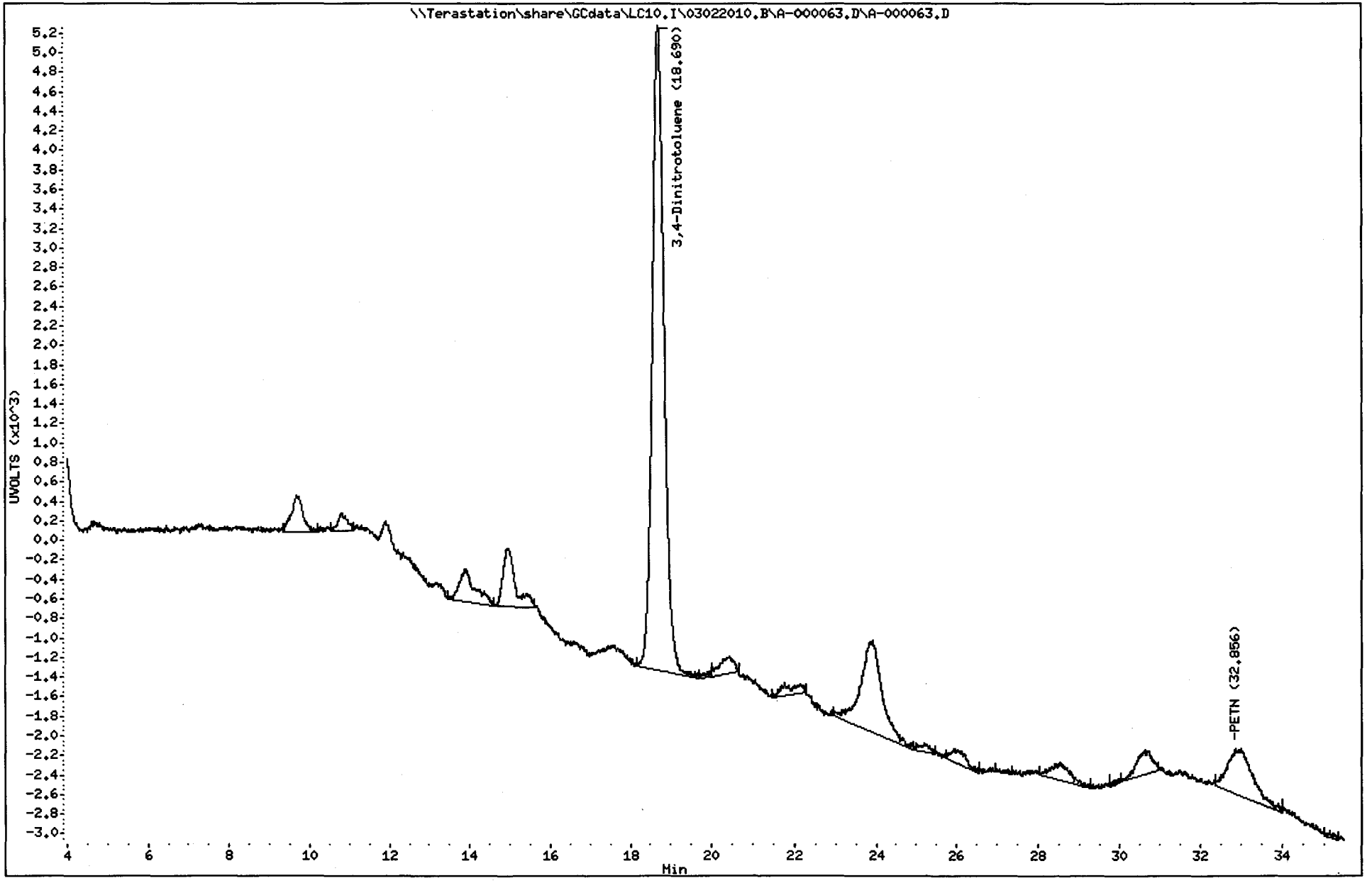
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.676	7852	383	0.049	3.60	
10.813	2964	189	0.064	1.78	
13.873	9327	335	0.036	3.15	
14.960	12989	600	0.046	5.65	
18.690	133554	6608	0.049	62.36	$ 1 3,4-Dinitrotoluene
19.963	551	54	0.098	0.50	
20.350	4297	156	0.036	1.47	
21.770	3118	128	0.041	1.20	
23.903	34488	936	0.027	8.82	
24.996	1459	63	0.043	0.59	
25.940	3562	131	0.037	1.23	
27.066	481	34	0.071	0.32	
28.533	5904	185	0.031	1.74	
30.003	433	37	0.085	0.34	
30.613	6670	246	0.037	2.31	
32.856	20107	454	0.023	4.27	20 PETN
35.150	663	72	0.109	0.67	
	248418	10611		100.000	

Total unknown % height = 33.37

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000063.D\A-000063.D
Date : 04-MAR-2010 12:59
Client ID:
Instrument: LC10.i
Sample Info: LVTVA1AF 0056227 A0B180429-15;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



TestAmerica West Sacramento

A-000069.D

Chromatography Summary

Injection Date: 3/4/2010 17:50 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000069.D **Vial Num:** 70

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LVWW51DQ 0056227 A0B190524-1**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	9.99 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVWW51DQ 0056227 A0B190524-1;0

Misc. Info: ;;;9.99;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.69**	**0.010**	**3176**	**527.4000<**		**18.69**	**0.013**	**6101**	**500.5000**		**0.0000**	**0.00**	
HMX	5.55	0.100	208	12.5000<							12.1121	250.50	45
RDX											12.0120	250.50	
Picric ACID											100.1001	1002.00	
1,3,5-Trinitrobenzene	10.62	0.037	257	12.7900<							10.0100	250.50	45
1,3-Dinitrobenzene											4.2042	250.50	
TETRYL											10.0100	250.50	
Nitrobenzene											17.6176	250.50	
2,4,6-Trinitrotoluene											19.4194	250.50	
4-AM-2,6-DNT											10.0100	250.50	
2-AM-4,6-DNT											12.5125	300.60	
2,6-Dinitrotoluene											7.3073	250.50	
2,4-Dinitrotoluene											5.3053	250.50	
2-Nitrotoluene											13.0130	250.50	
4-Nitrotoluene											18.2182	501.00	
3-Nitrotoluene											15.5155	250.50	
Nitroglycerin											15.0150	501.00	
PETN											25.0250	501.00	
3,5-Dinitroaniline											8.8088	1302.60	

> not conf

MR 3/5/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.5005**	**527.4000**	**105**	**500.5005**	**500.5000**	**100**	**(81-127)**

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000069.D
Lab Smp Id: LVWW51DQ 0056227 A0
Inj Date : 04-MAR-2010 17:50
Operator : NS Inst ID: LC10.i
Smp Info : LVWW51DQ 0056227 A0B190524-1;0
Misc Info : ;;;9.99;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 15:08 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 70
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

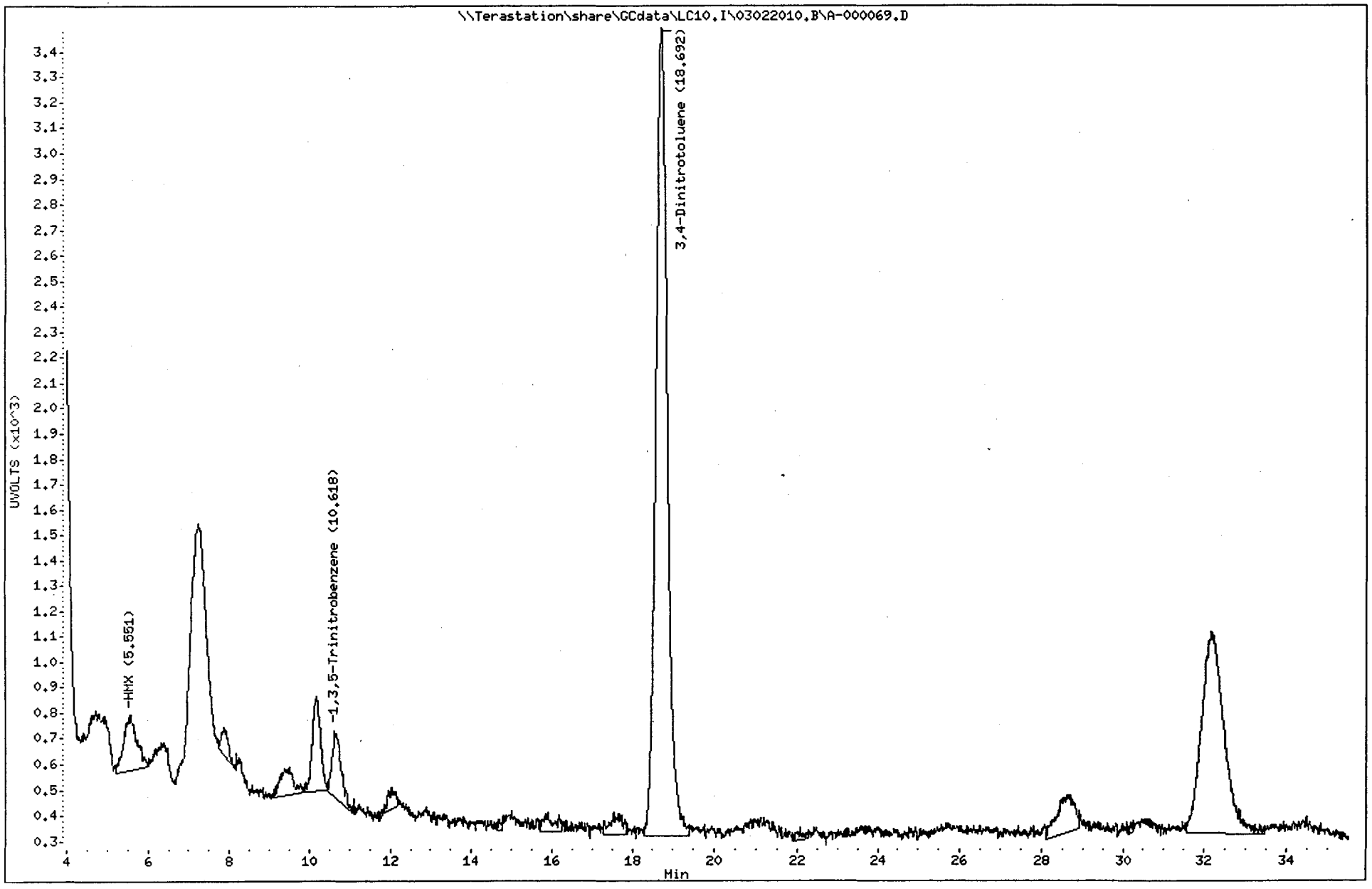
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.990	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.551	4737	208	0.044	3.75		2 HMX
7.865	1244	106	0.085	1.91		
9.362	2450	106	0.043	1.91		
10.172	5280	372	0.070	6.72		
10.618	4245	257	0.061	4.64		6 1,3,5-Trinitrobenze
11.792	98	25	0.254	0.45		
11.962	951	75	0.079	1.35		
14.682	205	41	0.200	0.74		
15.852	1355	69	0.051	1.24		
17.538	1747	88	0.050	1.59		
18.692	63059	3176	0.050	57.49	$	1 3,4-Dinitrotoluene
22.062	496	39	0.079	0.70		
28.532	4280	141	0.033	2.54		
30.185	179	42	0.235	0.75		
32.172	29689	787	0.027	14.22		
	120014	5532		100.000		

Total unknown % height = 34.12

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000069.D
Date : 04-MAR-2010 17:50
Client ID:
Sample Info: LVWW51DQ 0056227 A0B190524-1;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000069.D\A-000069
Lab Smp Id: LVWW51DQ 0056227 A0
Inj Date : 04-MAR-2010 17:50
Operator : NS Inst ID: LC10.i
Smp Info : LVWW51DQ 0056227 A0B190524-1;0
Misc Info : ;;;9.99;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 70
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

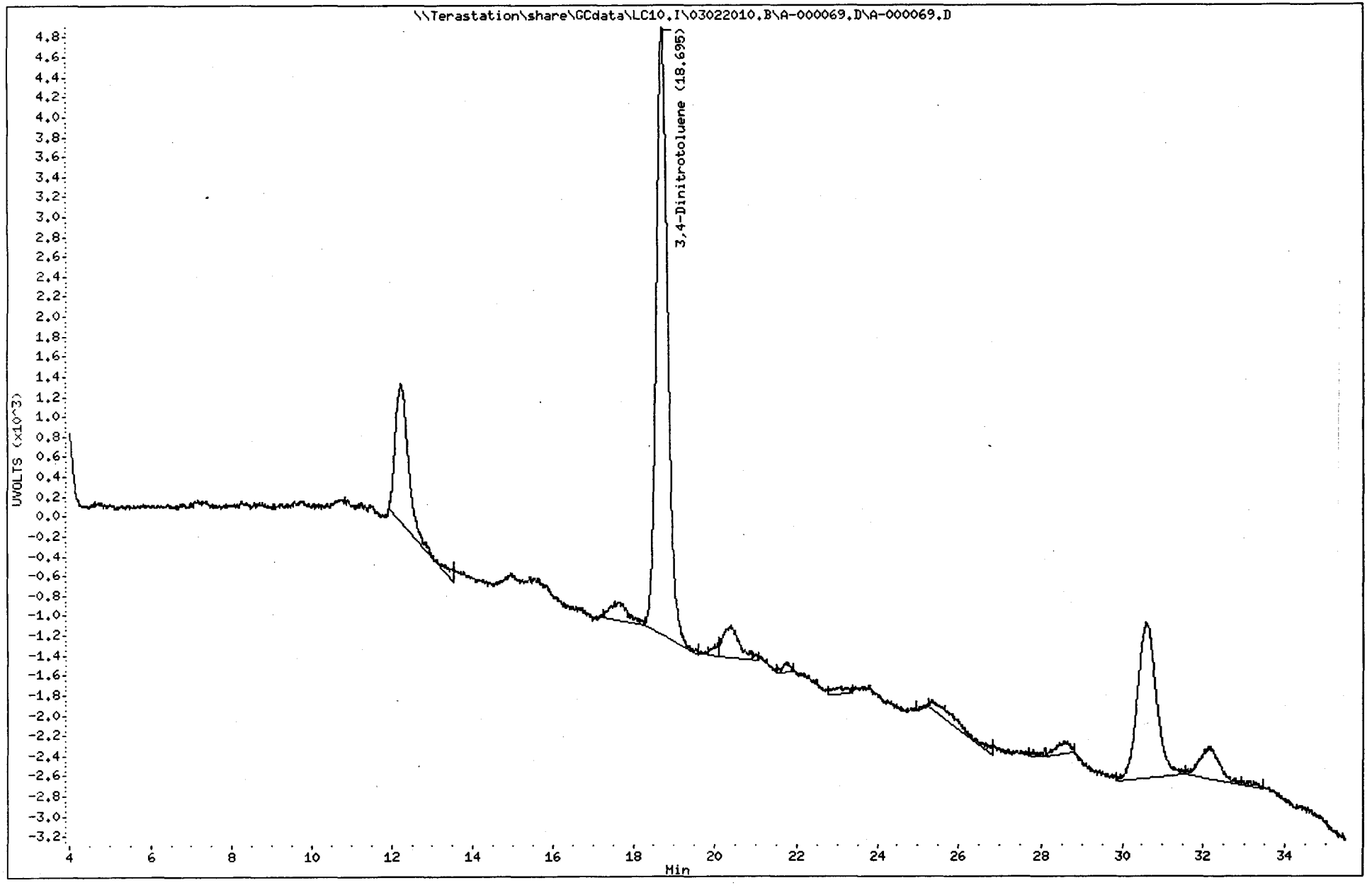
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.990	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
12.222	33273	1389	0.042	13.30	
17.541	5559	179	0.032	1.71	
18.695	119485	6101	0.051	58.54	$ 1 3,4-Dinitrotoluene
20.068	1390	117	0.084	1.12	
20.382	8709	320	0.037	3.06	
21.535	1134	51	0.045	0.48	
23.095	1710	69	0.040	0.66	
25.235	356	30	0.084	0.28	
25.335	5369	90	0.017	0.86	
27.795	763	60	0.079	0.57	
28.452	2707	107	0.040	1.02	
30.588	50580	1558	0.031	14.92	
32.178	10530	314	0.030	3.00	
33.122	926	51	0.055	0.48	
	242492	10436		100.000	

Total unknown % height = 41.46

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000069.D\A-000069.D
Date : 04-MAR-2010 17:50
Client ID:
Instrument: LC10.i
Sample Info: LVWW51DQ 0056227 A0B190524-1;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



TestAmerica West Sacramento

A-000070.D

Chromatography Summary

Injection Date: 3/4/2010 18:39 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000070.D **Vial Num:** 5

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.63	4783	99.1900<	100	-1%	Acceptable		18.63	9876	101.2000	100	1%	Acceptable		(±15)	
HMX	5.45	13262	99.5500<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
RDX	8.02	9304	103.1000<	100	3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Picric ACID	9.26	18666	212.9000	200	6%	Acceptable		9.26	27576	214.3000<	200	7%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.58	16312	101.4000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
1,3-Dinitrobenzene	13.59	15826	100.8000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
TETRYL	15.06	8244	93.8900<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitrobenzene	15.44	7063	95.4000<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4,6-Trinitrotoluene	17.30	9141	95.6700<	100	-4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-AM-2,6-DNT	18.05	6989	98.0400<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-AM-4,6-DNT	19.17	7937	97.7900<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,6-Dinitrotoluene	20.89	5471	96.6100<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4-Dinitrotoluene	21.67	8932	97.2200<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-Nitrotoluene	25.25	3794	93.1600<	100	-7%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-Nitrotoluene	27.24	4621	94.8700<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
3-Nitrotoluene	29.37	4485	93.4200<	100	-7%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitroglycerin				**100**	**-100%**	**Fails**		16.34	6390	101.9000<	100	2%	Acceptable		(±15)	45
PETN				**100**	**-100%**	**Fails**		32.90	3038	96.1000<	100	-4%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.48	10312	100.1000<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
EGDN				**100**	**-100%**	**Fails**					**100**	**-100%**	**Fails**		(±15)	

m 3/5/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/5/2010 8:59 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000070.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 04-MAR-2010 18:39
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 19:23 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

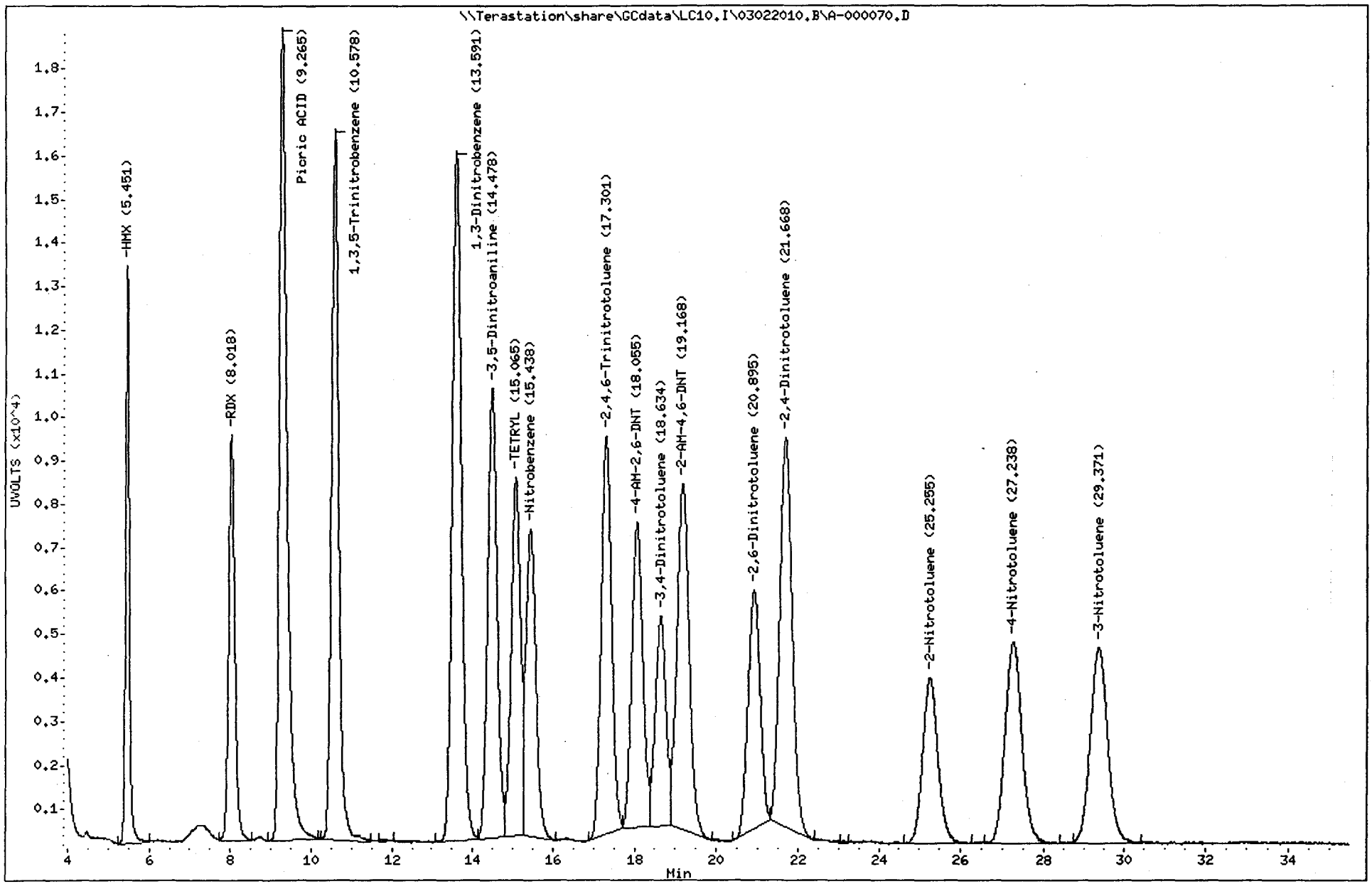
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.451	84115	13262	0.158	8.54		2	HMX
8.018	96036	9304	0.097	5.99		3	RDX
9.265	249711	18666	0.075	12.09		5	Picric ACID
10.578	205633	16312	0.079	10.50		6	1,3,5-Trinitrobenze
11.811	610	56	0.092	0.03			
13.591	245398	15826	0.064	10.19		7	1,3-Dinitrobenzene
14.478	168077	10312	0.061	6.64		8	3,5-Dinitroaniline
15.065	129623	8244	0.064	5.30		9	TETRYL
15.438	123126	7063	0.057	4.54		10	Nitrobenzene
17.301	161405	9141	0.057	5.88		12	2,4,6-Trinitrotolue
18.055	130599	6989	0.054	4.50		13	4-AM-2,6-DNT
18.634	86432	4783	0.055	3.08	$	1	3,4-Dinitrotoluene
19.168	163789	7937	0.048	5.11		14	2-AM-4,6-DNT
20.895	110270	5471	0.050	3.52		15	2,6-Dinitrotoluene
21.668	193599	8932	0.046	5.75		16	2,4-Dinitrotoluene
23.135	356	49	0.138	0.03			
25.255	99241	3794	0.038	2.44		17	2-Nitrotoluene
27.238	130465	4621	0.035	2.97		18	4-Nitrotoluene
28.698	563	43	0.076	0.02			
29.371	136300	4485	0.033	2.88		19	3-Nitrotoluene
	2515348	155290		100.000			

Total unknown % height = 0.08000

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000070.D
Date : 04-MAR-2010 18:39
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000070.D\A-000070
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 04-MAR-2010 18:39
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 19:23 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

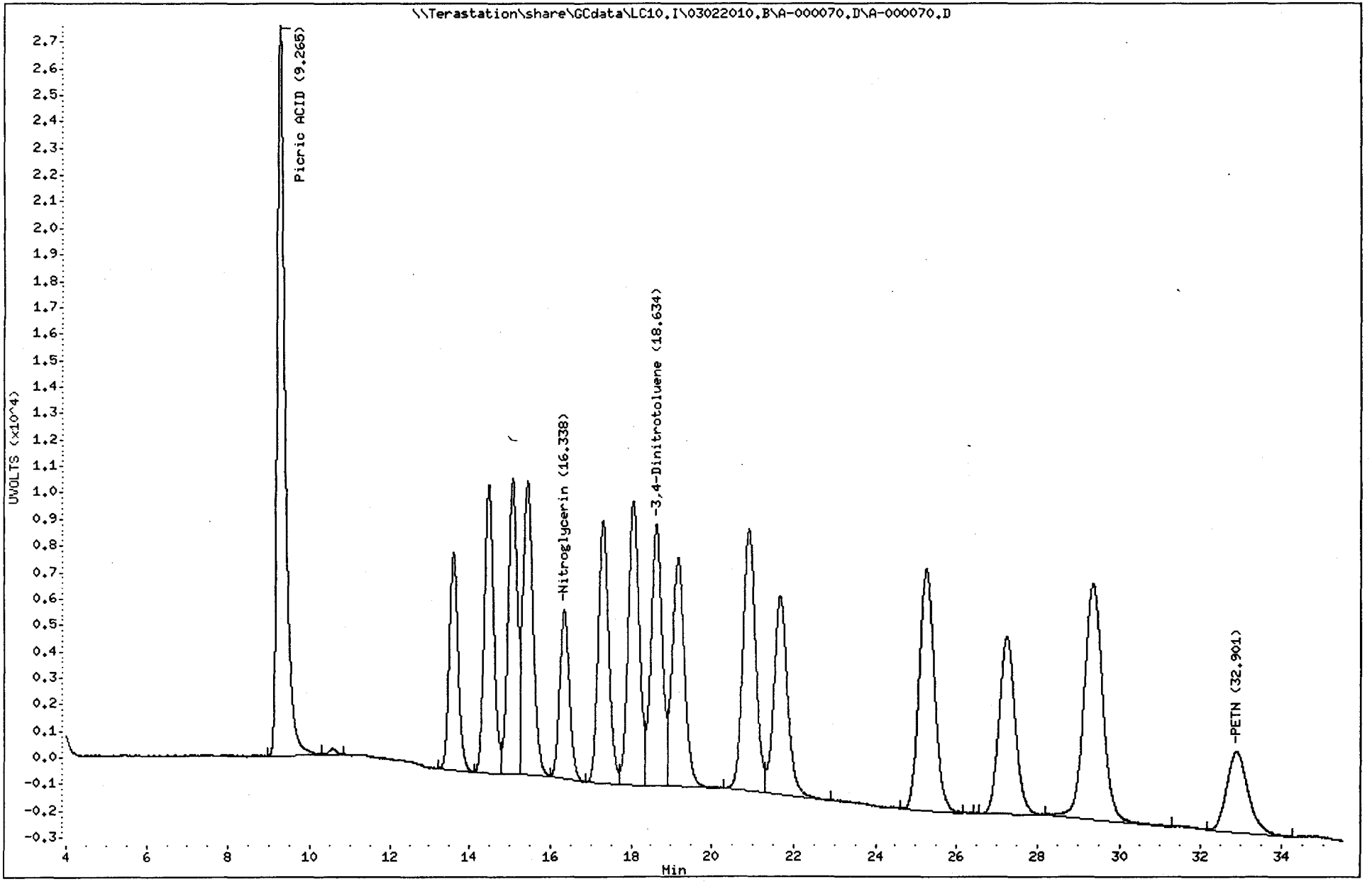
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.265	369764	27576	0.075	17.34		5 Picric ACID
10.578	3753	257	0.068	0.16		
13.591	126803	8202	0.065	5.12		
14.475	176393	10837	0.061	6.77		
15.065	176322	11154	0.063	6.97		
15.438	195362	11071	0.057	6.92		
16.338	107163	6390	0.060	3.99		11 Nitroglycerin
17.301	180168	9914	0.055	6.19		
18.055	209001	10715	0.051	6.69		
18.634	190768	9876	0.052	6.17	$	1 3,4-Dinitrotoluene
19.165	186305	8658	0.046	5.41		
20.898	215995	9908	0.046	6.19		
21.668	178315	7517	0.042	4.70		
25.251	237147	9131	0.039	5.70		
26.501	257	63	0.245	0.03		
27.235	187501	6705	0.036	4.19		
29.371	276797	8917	0.032	5.57		
32.901	112655	3038	0.027	1.89		20 PETN
	3130466	159929		100.000		

Total unknown % height = 70.61

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000070.D\A-000070.D
Date : 04-MAR-2010 18:39
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

A-000071.D

Chromatography Summary

Injection Date: 3/4/2010 19:27 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000071.D **Vial Num:** 71

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LVWW51DR 0056227 A0B190524-1S**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	9.98 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:** SOLIDBQSM.sp

Samp. Info: LVWW51DR 0056227 A0B190524-1S;3

Misc. Info: MS;;;9.98;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.64	2986	496.4000<	501.002004	99%	Acceptable		18.64	6185	507.9000	501.002004	101%	Acceptable		(81-127)	
HMX	5.45	8117	488.4000<	501.002004	97%	Acceptable					501.002004	0%	Fails		(75-125)	45
RDX	8.01	5409	480.6000<	501.002004	96%	Acceptable					501.002004	0%	Fails		(70-135)	45
Picric ACID				5010.02004	0%	Fails					5010.02004	0%	Fails		(70-130)	
1,3,5-Trinitrobenzene	10.57	10341	515.3000<	501.002004	103%	Acceptable					501.002004	0%	Fails		(75-125)	45
1,3-Dinitrobenzene	13.59	9811	500.8000<	501.002004	100%	Acceptable					501.002004	0%	Fails		(80-125)	45
TETRYL	15.07	4455	406.7000<	501.002004	81%	Acceptable					501.002004	0%	Fails		(10-150)	45
Nitrobenzene	15.44	4515	488.9000<	501.002004	98%	Acceptable					501.002004	0%	Fails		(75-125)	45
2,4,6-Trinitrotoluene	17.31	5537	464.5000<	501.002004	93%	Acceptable					501.002004	0%	Fails		(55-140)	45
4-AM-2,6-DNT	18.07	3678	413.6000<	501.002004	83%	Acceptable					501.002004	0%	Fails		(80-125)	45
2-AM-4,6-DNT	19.18	4722	466.4000<	501.002004	93%	Acceptable					501.002004	0%	Fails		(80-125)	45
2,6-Dinitrotoluene	20.91	3460	489.8000<	501.002004	98%	Acceptable					501.002004	0%	Fails		(80-120)	45
2,4-Dinitrotoluene	21.69	5563	485.4000<	501.002004	97%	Acceptable					501.002004	0%	Fails		(80-125)	45
2-Nitrotoluene	25.25	2525	497.0000<	501.002004	99%	Acceptable					501.002004	0%	Fails		(80-125)	45
4-Nitrotoluene	27.24	2989	491.9000<	501.002004	98%	Acceptable					501.002004	0%	Fails		(75-125)	45
3-Nitrotoluene	29.32	2926	488.5000<	501.002004	98%	Acceptable					501.002004	0%	Fails		(75-120)	45
Nitroglycerin				1002.004008	0%	Fails		16.34	8213	1050.0000<	1002.004008	105%	Acceptable		(74-112)	45
PETN				1002.004008	0%	Fails		32.83	3928	996.0000<	1002.004008	99%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14.48	5722	445.4000<	501.002004	89%	Acceptable					501.002004	0%	Fails		(40-140)	45

Surrogates:	Spiked	Recovered	%Rec	Spiked	Recovered	%Rec	Limits
3,4-Dinitrotoluene	501.0020	496.4000	99	501.0020	507.9000	101	(81-127)

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/5/2010 9:00 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000071.D
Lab Smp Id: LVWW51DR 0056227 A0
Inj Date : 04-MAR-2010 19:27
Operator : NS Inst ID: LC10.i
Smp Info : LVWW51DR 0056227 A0B190524-1S;3
Misc Info : MS;;;9.98;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 19:23 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 71 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.980	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

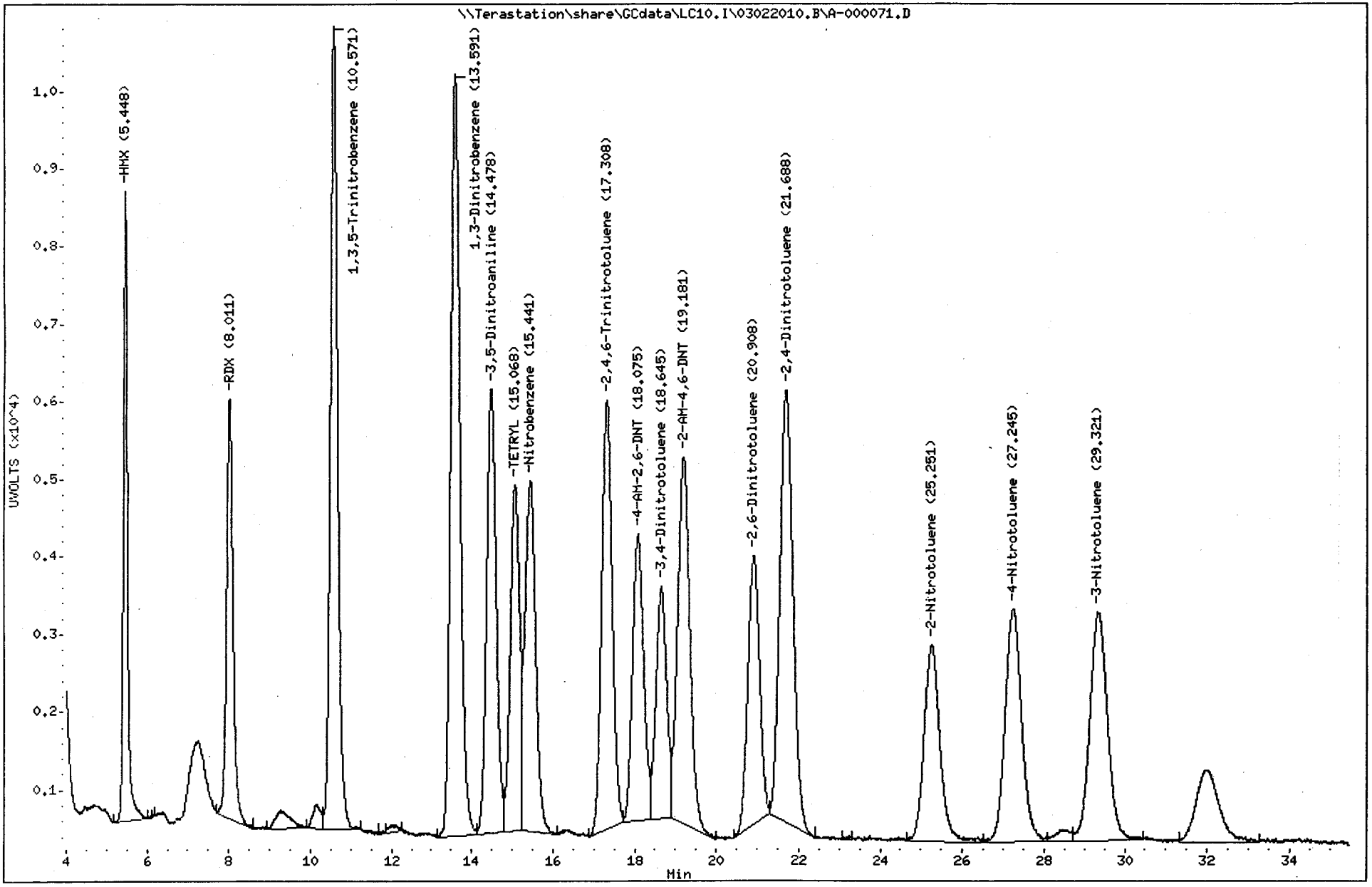
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.448	54834	8117	0.148	9.59		2	HMX
6.151	119	43	0.361	0.05			
8.011	58386	5409	0.093	6.39		3	RDX
9.258	6028	238	0.039	0.28			
10.135	4357	317	0.073	0.37			
10.571	131618	10341	0.079	12.34		6	1,3,5-Trinitrobenze
11.771	129	32	0.249	0.03			
12.031	1272	89	0.070	0.10			
13.591	154414	9811	0.064	11.59		7	1,3-Dinitrobenzene
14.478	94649	5722	0.060	6.76		8	3,5-Dinitroaniline
15.068	69989	4455	0.064	5.26		9	TETRYL
15.441	80722	4515	0.056	5.33		10	Nitrobenzene
17.308	98483	5537	0.056	6.54		12	2,4,6-Trinitrotolue
18.075	69138	3678	0.053	4.34		13	4-AM-2,6-DNT
18.645	54128	2986	0.055	3.52	$	1	3,4-Dinitrotoluene
19.181	98450	4722	0.048	5.58		14	2-AM-4,6-DNT
20.908	69608	3460	0.050	4.09		15	2,6-Dinitrotoluene
21.688	120745	5563	0.046	6.57		16	2,4-Dinitrotoluene
23.248	359	55	0.153	0.06			
25.251	67967	2525	0.037	2.98		17	2-Nitrotoluene
27.245	84734	2989	0.035	3.53		18	4-Nitrotoluene
28.431	3628	137	0.038	0.16			
29.321	89308	2926	0.033	3.45		19	3-Nitrotoluene
31.985	36440	923	0.025	1.09			

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
	1449503	84590		100.000	

Total unknown % height = 2.140

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000071.D
Date : 04-MAR-2010 19:27
Client ID:
Sample Info: LVWW51DR 0056227 A0B190524-1S;3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



1750

North Canton

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000071.D\A-000071
Lab Smp Id: LVWW51DR 0056227 A0
Inj Date : 04-MAR-2010 19:27
Operator : NS Inst ID: LC10.i
Smp Info : LVWW51DR 0056227 A0B190524-1S;3
Misc Info : MS;;;9.98;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 19:23 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 71 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

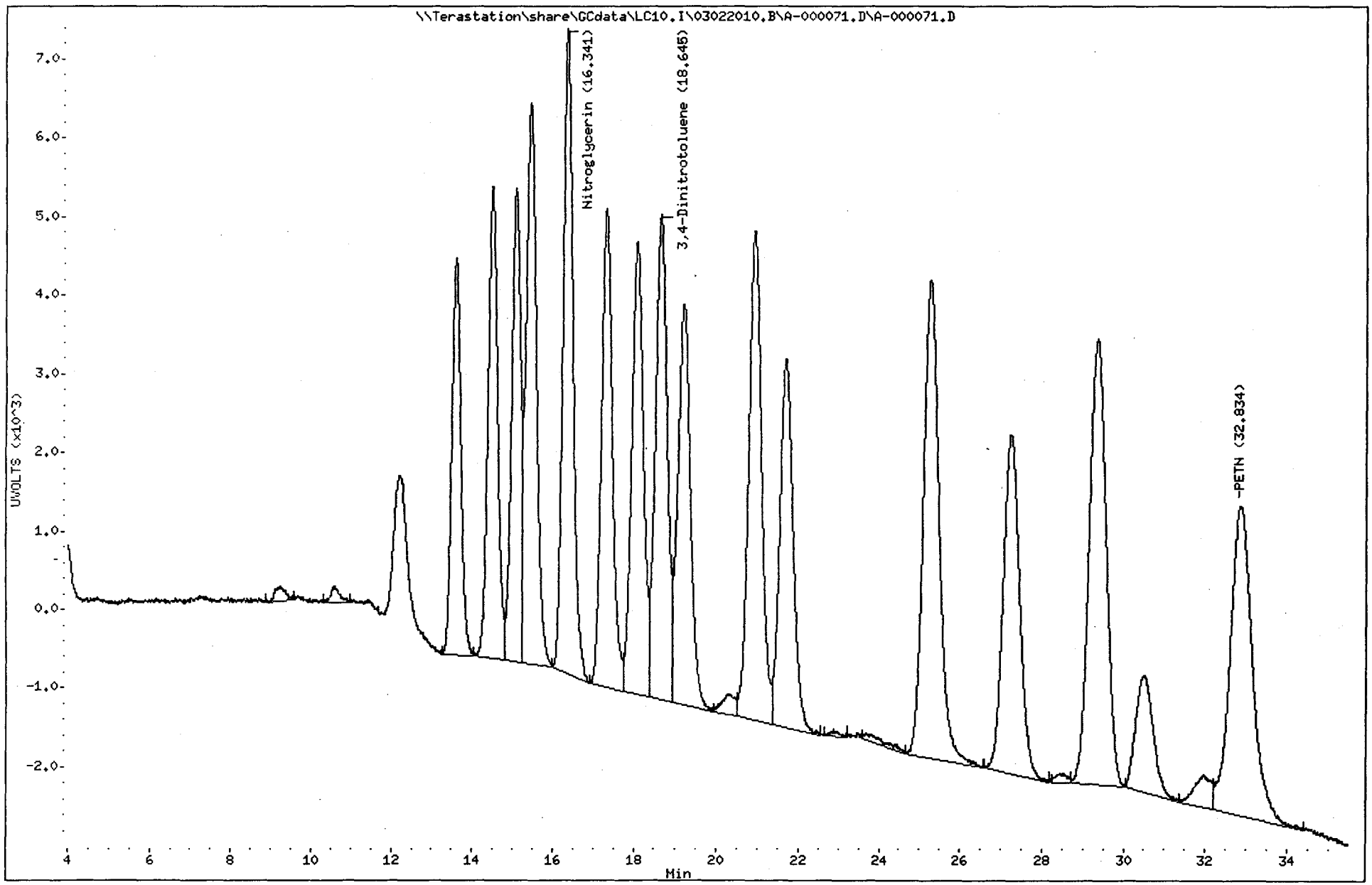
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.980	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.221	3713	205	0.055	0.22	
10.591	3211	202	0.063	0.22	
13.591	77520	5059	0.065	5.66	
14.475	99145	5995	0.060	6.71	
15.068	94001	6020	0.064	6.74	
15.441	129225	7120	0.055	7.97	
16.341	140799	8213	0.058	9.30	11 Nitroglycerin
17.311	114122	6103	0.053	6.83	
18.071	115103	5758	0.050	6.44	
18.645	119758	6185	0.052	6.92	$ 1 3,4-Dinitrotoluene
19.175	109922	5098	0.046	5.70	
20.261	5762	258	0.045	0.28	
20.908	137251	6237	0.045	6.98	
21.685	106162	4686	0.044	5.24	
22.881	1331	90	0.068	0.10	
23.688	3790	95	0.025	0.10	
25.255	163731	6086	0.037	6.81	
27.241	120207	4315	0.036	4.83	
28.435	2395	123	0.051	0.13	
29.348	162987	5663	0.035	6.34	
30.485	43668	1473	0.034	1.64	
31.971	11859	405	0.034	0.45	
32.834	147771	3928	0.027	4.39	20 PETN
	1913434	89317		100.000	

Total unknown % height = 79.39

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000071.D\A-000071.D
Date : 04-MAR-2010 19:27
Client ID:
Instrument: LC10.i
Sample Info: LVWW51DR 0056227 A0B190524-1S;3
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



TestAmerica West Sacramento

A-000072.D

Chromatography Summary

Injection Date: 3/4/2010 20:16 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000072.D **Vial Num:** 72

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LVWW51DT 0056227 A0B190524-1D**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.02 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:** SOLIDBQSM.sp

Samp. Info: LVWW51DT 0056227 A0B190524-1D;3

Misc. Info: MSD;;;10.02;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	18.62	2979	493.2000<	499.001996	99%	Acceptable		18.62	6115	500.1000	499.001996	100%	Acceptable		(81-127)	
HMX	5.44	8124	486.9000<	499.001996	98%	Acceptable					499.001996	0%	Fails		(75-125)	45
RDX	8.00	5413	479.0000<	499.001996	96%	Acceptable					499.001996	0%	Fails		(70-135)	45
Picric ACID				4990.01996	0%	Fails					4990.01996	0%	Fails		(70-130)	
1,3,5-Trinitrobenzene	10.56	10361	514.2000<	499.001996	103%	Acceptable					499.001996	0%	Fails		(75-125)	45
1,3-Dinitrobenzene	13.58	9789	497.7000<	499.001996	100%	Acceptable					499.001996	0%	Fails		(80-125)	45
TETRYL	15.05	4481	407.4000<	499.001996	82%	Acceptable					499.001996	0%	Fails		(10-150)	45
Nitrobenzene	15.43	4428	477.5000<	499.001996	96%	Acceptable					499.001996	0%	Fails		(75-125)	45
2,4,6-Trinitrotoluene	17.29	5530	462.1000<	499.001996	93%	Acceptable					499.001996	0%	Fails		(55-140)	45
4-AM-2,6-DNT	18.05	3694	413.7000<	499.001996	83%	Acceptable					499.001996	0%	Fails		(80-125)	45
2-AM-4,6-DNT	19.17	4721	464.4000<	499.001996	93%	Acceptable					499.001996	0%	Fails		(80-125)	45
2,6-Dinitrotoluene	20.90	3420	482.2000<	499.001996	97%	Acceptable					499.001996	0%	Fails		(80-120)	45
2,4-Dinitrotoluene	21.66	5562	483.3000<	499.001996	97%	Acceptable					499.001996	0%	Fails		(80-125)	45
2-Nitrotoluene	25.23	2464	483.0000<	499.001996	97%	Acceptable					499.001996	0%	Fails		(80-125)	45
4-Nitrotoluene	27.21	2925	479.4000<	499.001996	96%	Acceptable					499.001996	0%	Fails		(75-125)	45
3-Nitrotoluene	29.33	2836	471.6000<	499.001996	95%	Acceptable					499.001996	0%	Fails		(75-120)	45
Nitroglycerin				998.003992	0%	Fails		16.32	8164	1040.0000<	998.003992	104%	Acceptable		(74-112)	45
PETN				998.003992	0%	Fails		32.86	3890	982.4000<	998.003992	98%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14.46	5707	442.5000<	499.001996	89%	Acceptable					499.001996	0%	Fails		(40-140)	45

mr 3/5/10

Surrogates:	Spiked	Recovered	%Rec		Spiked	Recovered	%Rec	Limits
3,4-Dinitrotoluene	499.0020	493.2000	99		499.0020	500.1000	100	(81-127)

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/5/2010 9:00 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000072.D
Lab Smp Id: LVWW51DT 0056227 A0
Inj Date : 04-MAR-2010 20:16
Operator : NS Inst ID: LC10.i
Smp Info : LVWW51DT 0056227 A0B190524-1D;3
Misc Info : MSD;;;10.02;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 19:23 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 72 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

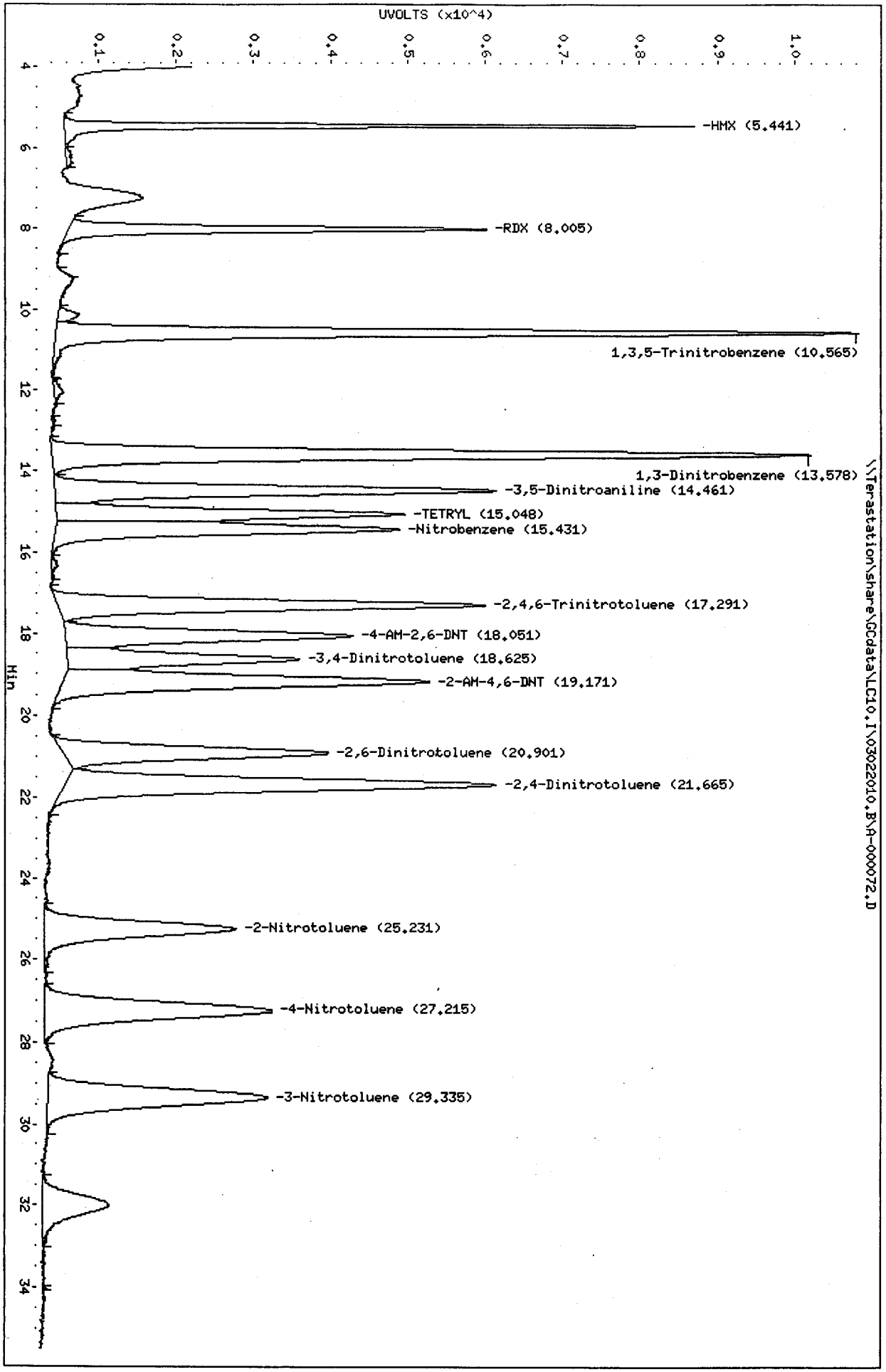
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.020	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.441	53898	8124	0.151	9.67		2 HMX
6.191	1422	70	0.049	0.08		
8.005	57300	5413	0.094	6.44		3 RDX
9.181	251	57	0.227	0.06		
10.145	3672	264	0.072	0.31		
10.565	133067	10361	0.078	12.48		6 1,3,5-Trinitrobenze
12.035	1803	109	0.060	0.12		
12.731	274	25	0.091	0.02		
13.578	152774	9789	0.064	11.66		7 1,3-Dinitrobenzene
14.461	94103	5707	0.061	6.79		8 3,5-Dinitroaniline
15.048	71244	4481	0.063	5.33		9 TETRYL
15.431	78353	4428	0.057	5.27		10 Nitrobenzene
16.255	1229	70	0.057	0.08		
17.291	98252	5530	0.056	6.58		12 2,4,6-Trinitrotolue
18.051	69218	3694	0.053	4.40		13 4-AM-2,6-DNT
18.625	54834	2979	0.054	3.54	$	1 3,4-Dinitrotoluene
19.171	97478	4721	0.048	5.62		14 2-AM-4,6-DNT
20.901	69506	3420	0.049	4.07		15 2,6-Dinitrotoluene
21.665	120640	5562	0.046	6.62		16 2,4-Dinitrotoluene
25.231	66096	2464	0.037	2.93		17 2-Nitrotoluene
27.215	82074	2925	0.036	3.48		18 4-Nitrotoluene
29.335	83884	2836	0.034	3.37		19 3-Nitrotoluene
32.008	31893	859	0.027	1.02		
34.051	184	54	0.293	0.06		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
	1423447	83942		100.000	

Total unknown % height = 1.750



Data File: \\Terastation\share\GCdata\LC10,I\03022010,B\A-000072.D
Date : 04-MAR-2010 20:16
Client ID:
Sample Info: LVWW51DT 0056227 A0B190524-1D;3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10,i
Operator: NS
Column diameter: 4.60

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000072.D\A-000072
Lab Smp Id: LVWW51DT 0056227 A0
Inj Date : 04-MAR-2010 20:16
Operator : NS Inst ID: LC10.i
Smp Info : LVWW51DT 0056227 A0B190524-1D;3
Misc Info : MSD;;;10.02;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 19:23 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 72 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

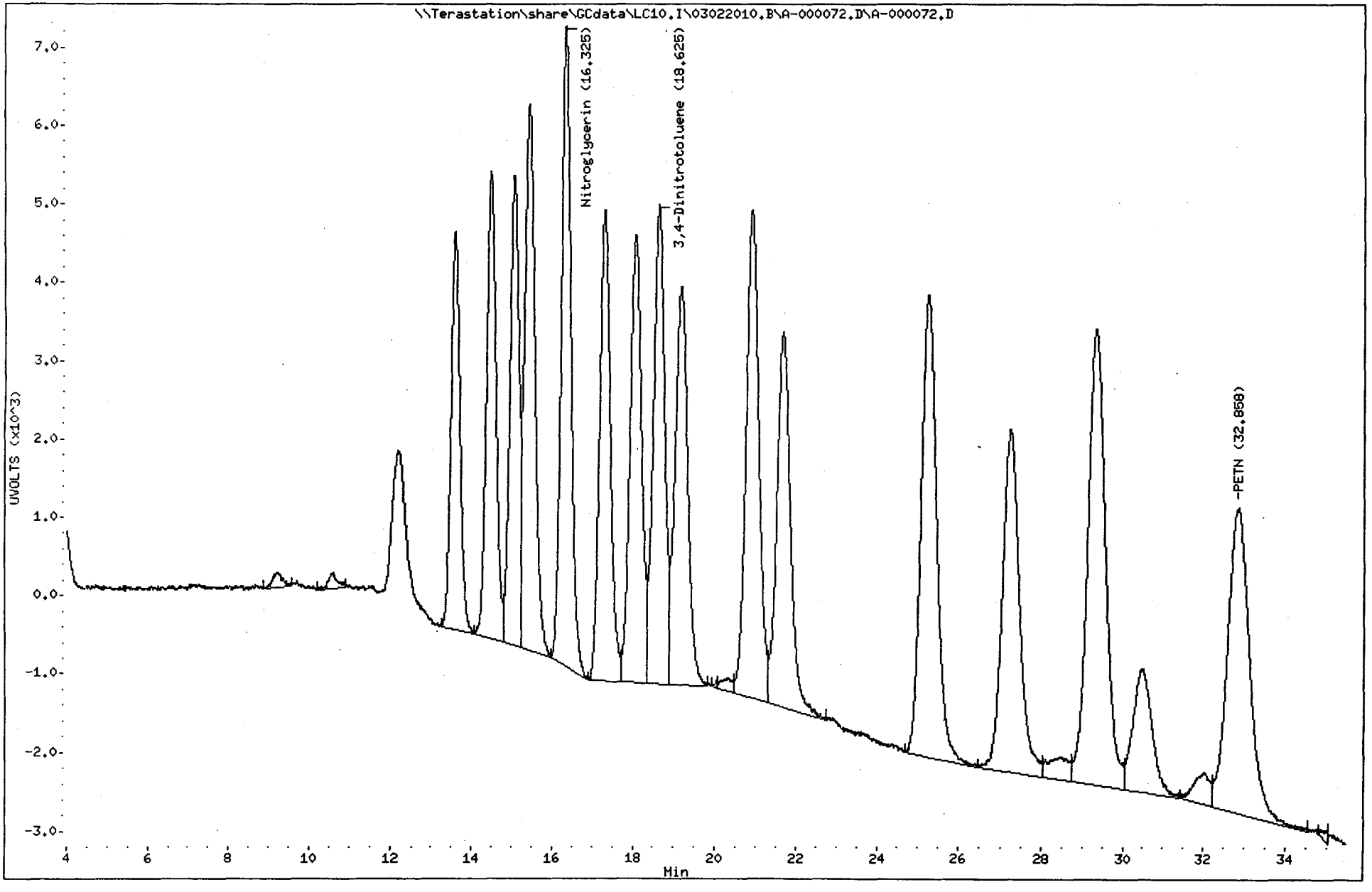
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.020	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.215	3427	196	0.057	0.21		
10.598	3544	213	0.060	0.23		
13.578	77792	5081	0.065	5.69		
14.465	98269	5969	0.061	6.69		
15.048	93884	6003	0.064	6.72		
15.428	124761	6965	0.056	7.80		
16.325	139219	8164	0.059	9.28	11	Nitroglycerin
17.295	110583	6023	0.054	6.75		
18.055	114411	5728	0.050	6.42		
18.625	117461	6115	0.052	6.85	$ 1	3,4-Dinitrotoluene
19.171	109070	5090	0.047	5.70		
20.021	397	88	0.221	0.09		
20.325	3026	178	0.059	0.19		
20.895	137579	6235	0.045	6.98		
21.668	113316	4803	0.042	5.38		
25.238	156794	5901	0.038	6.61		
27.218	128913	4384	0.034	4.91		
28.448	10080	295	0.029	0.33		
29.331	180106	5824	0.032	6.52		
30.508	52979	1573	0.030	1.76		
32.015	11059	406	0.037	0.45		
32.858	144842	3890	0.027	4.36	20	PETN
34.861	1171	79	0.067	0.08		
	1932680	89203		100.000		

Total unknown % height = 79.51

Data File: \\Terastation\share\GCdata\LC10,I\03022010,B\A-000072,D\A-000072,D
Date : 04-MAR-2010 20:16
Client ID:
Instrument: LC10.i
Sample Info: LVWW51DT 0056227 A0B190524-1D;3
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



TestAmerica West Sacramento

A-000081.D

Chromatography Summary

Injection Date: 3/5/2010 3:33 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000081.D **Vial Num:** 6

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.68	4755	98.6000<	100	-1%	Acceptable		18.68	9751	99.8900	100	0%	Acceptable		(±15)	
HMX	5.45	13336	100.1000<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
RDX	8.02	9296	103.0000<	100	3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Picric ACID	9.27	18832	214.8000	200	7%	Acceptable		9.27	27743	215.6000<	200	8%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.58	16308	101.4000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
1,3-Dinitrobenzene	13.60	15770	100.4000<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45.
TETRYL	15.09	8213	93.5400<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitrobenzene	15.46	7334	99.0600<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4,6-Trinitrotoluene	17.33	9087	95.1000<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-AM-2,6-DNT	18.09	6952	97.5200<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-AM-4,6-DNT	19.21	7884	97.1400<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,6-Dinitrotoluene	20.95	5448	96.2000<	100	-4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4-Dinitrotoluene	21.72	8912	97.0000<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-Nitrotoluene	25.32	3985	97.8400<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-Nitrotoluene	27.29	4776	98.0500<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
3-Nitrotoluene	29.42	4721	98.3300<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitroglycerin				**100**	**-100%**	**Fails**		16.37	6387	101.9000<	100	2%	Acceptable		(±15)	45
PETN				**100**	**-100%**	**Fails**		32.92	3130	99.0100<	100	-1%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.49	10291	99.9300<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
EGDN				**100**	**-100%**	**Fails**					**100**	**-100%**	**Fails**		(±15)	

m 3/5/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/5/2010 9:06 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000081.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 05-MAR-2010 03:33
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 05-Mar-2010 04:17 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

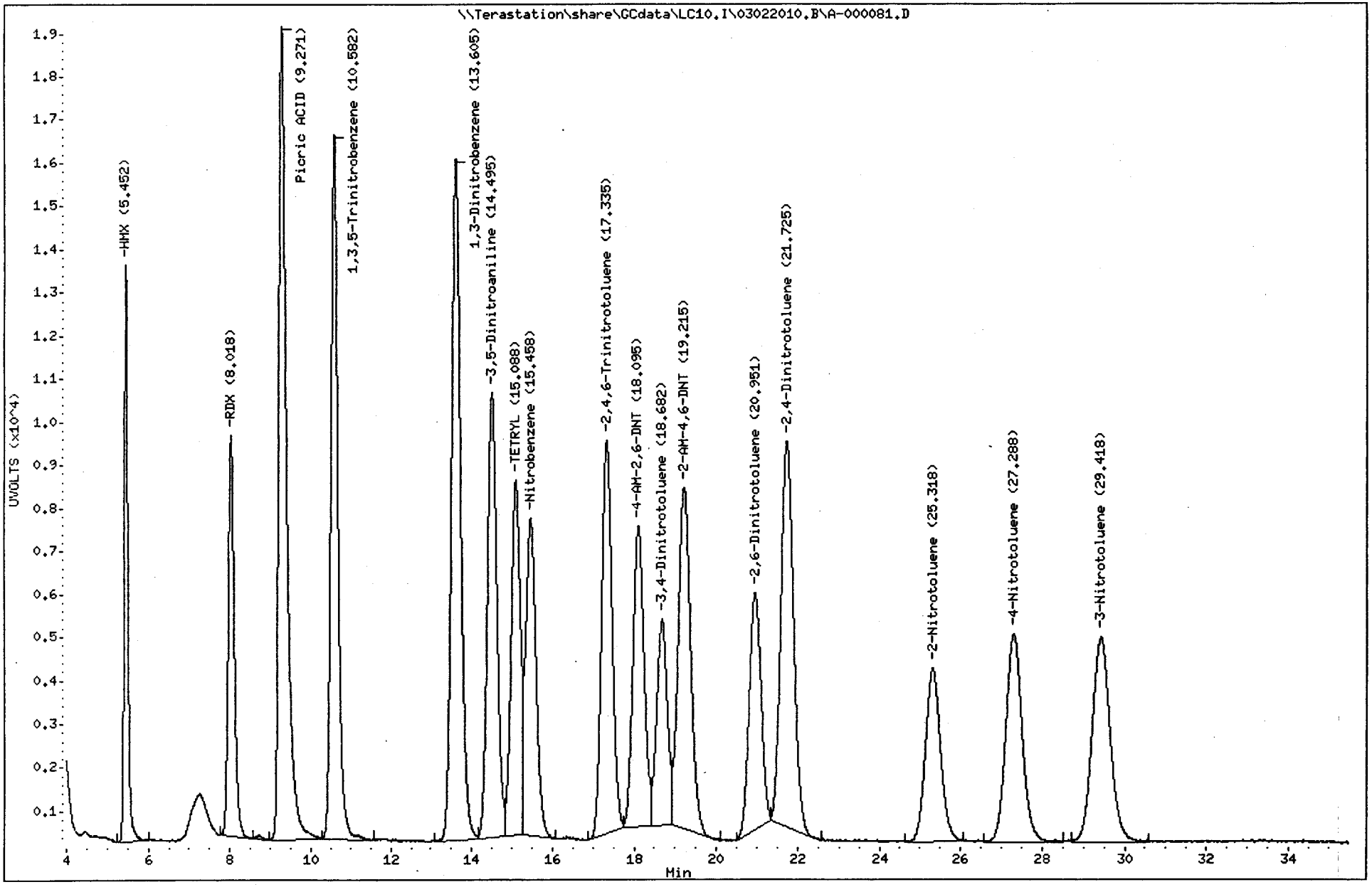
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.452	83665	13336	0.159	8.54		2	HMX
8.018	94643	9296	0.098	5.95		3	RDX
8.708	962	97	0.101	0.06			
9.271	250560	18832	0.075	12.16		5	Picric ACID
10.582	205174	16308	0.079	10.45		6	1,3,5-Trinitrobenze
13.605	244793	15770	0.064	10.10		7	1,3-Dinitrobenzene
14.495	167643	10291	0.061	6.59		8	3,5-Dinitroaniline
15.088	130118	8213	0.063	5.26		9	TETRYL
15.458	127711	7334	0.057	4.70		10	Nitrobenzene
17.335	161143	9087	0.056	5.82		12	2,4,6-Trinitrotolue
18.095	130366	6952	0.053	4.45		13	4-AM-2,6-DNT
18.682	86292	4755	0.055	3.04	$	1	3,4-Dinitrotoluene
19.215	162554	7884	0.049	5.05		14	2-AM-4,6-DNT
20.951	110254	5448	0.049	3.49		15	2,6-Dinitrotoluene
21.725	192947	8912	0.046	5.71		16	2,4-Dinitrotoluene
25.318	103271	3985	0.039	2.55		17	2-Nitrotoluene
27.288	134995	4776	0.035	3.06		18	4-Nitrotoluene
29.418	143915	4721	0.033	3.02		19	3-Nitrotoluene
	2531004	155997		100.000			

Total unknown % height = 0.06000

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000081.D
Date : 05-MAR-2010 03:33
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000081.D\A-000081
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 05-MAR-2010 03:33
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 05-Mar-2010 04:17 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

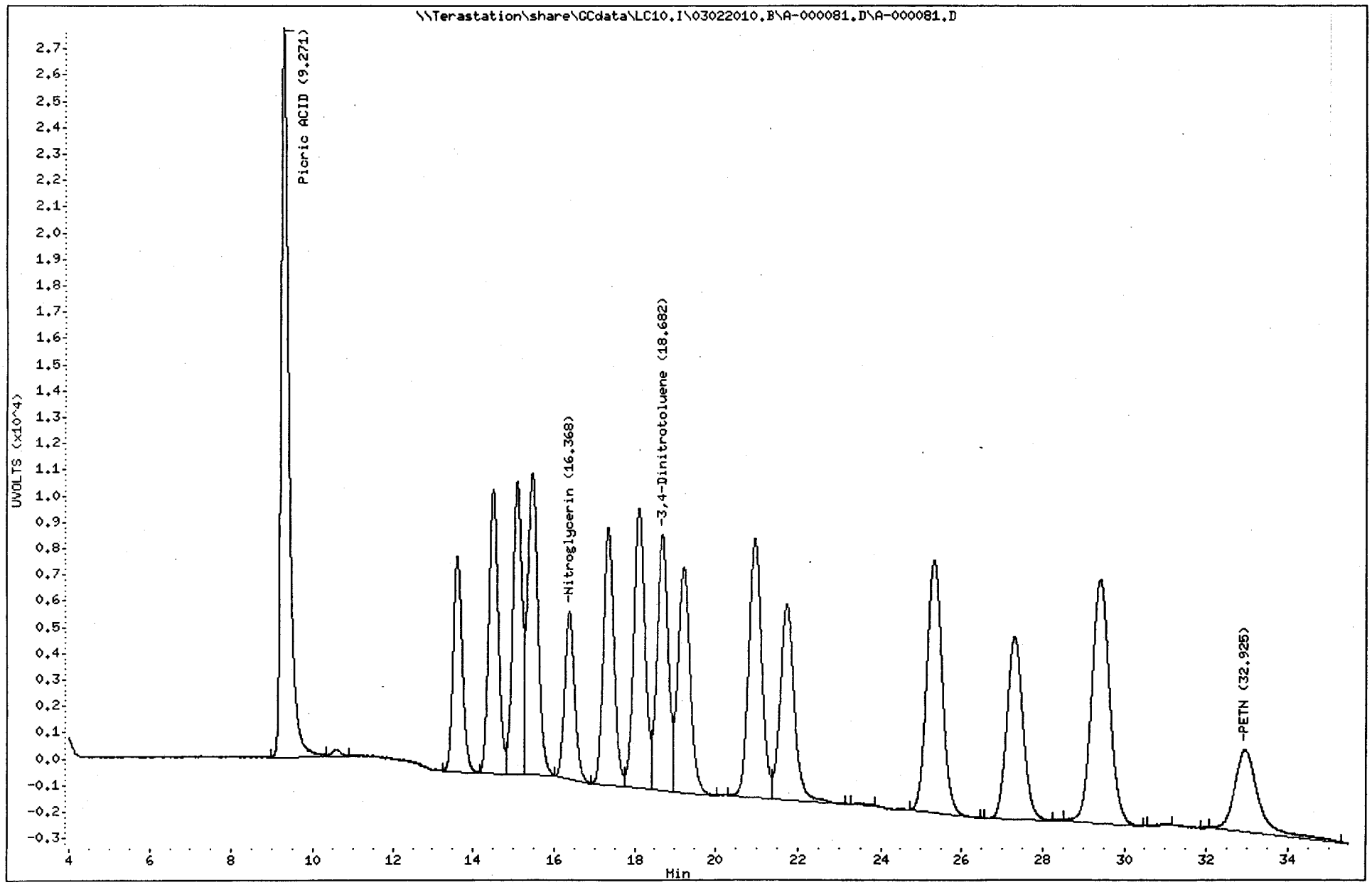
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.271	369875	27743	0.075	17.29		5 Picric ACID
10.568	4312	282	0.065	0.17		
13.608	126387	8179	0.065	5.06		
14.492	177189	10819	0.061	6.70		
15.088	176173	11133	0.063	6.90		
15.462	204102	11503	0.056	7.13		
16.368	107519	6387	0.059	3.95		11 Nitroglycerin
17.332	178672	9813	0.055	6.08		
18.095	207576	10648	0.051	6.60		
18.682	188914	9751	0.052	6.04	$	1 3,4-Dinitrotoluene
19.218	182150	8570	0.047	5.31		
20.948	213710	9836	0.046	6.09		
21.728	177078	7442	0.042	4.61		
23.392	1246	53	0.043	0.03		
25.308	251099	9612	0.038	5.95		
27.298	193333	6936	0.036	4.29		
28.495	817	90	0.110	0.05		
29.415	281465	9274	0.033	5.74		
30.785	1364	55	0.040	0.03		
31.942	469	69	0.147	0.04		
32.925	129700	3130	0.024	1.94		20 PETN
	3173151	161325		100.000		

Total unknown % height = 70.78

Data File: \\Terastation\share\GCdata\LC10,I\03022010,B\A-000081,D\A-000081,D
Date : 05-MAR-2010 03:33
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10,i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC9 Batch ID: 03032010
Method : Method 8330 Test : SOP WS-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
03-MAR-2010	16:22	NS	8330 Primer L6	C-000001.	0 g	0 mL	1	
03-MAR-2010	17:28	NS	8330 Primer L6	C-000002.	0 g	0 mL	1	
03-MAR-2010	18:34	NS	BLANK	C-000003.	0 g	0 mL	1	
03-MAR-2010	19:39	NS	8330 10GCSV0046 ICAL L1	C-000004.	0 g	0 mL	1	
03-MAR-2010	20:45	NS	8330 10GCSV0047 ICAL L2	C-000005.	0 g	0 mL	1	
03-MAR-2010	21:50	NS	8330 10GCSV0048 ICAL L3	C-000006.	0 g	0 mL	1	
03-MAR-2010	22:56	NS	8330 10GCSV0049 ICAL L4	C-000007.	0 g	0 mL	1	
04-MAR-2010	00:01	NS	8330 10GCSV0072 ICAL L5	C-000008.	0 g	0 mL	1	
04-MAR-2010	01:07	NS	8330 09GCSV0482 ICAL L6	C-000009.	0 g	0 mL	1	
04-MAR-2010	02:12	NS	8330 10GCSV0050 ICAL L7	C-000010.	0 g	0 mL	1	
04-MAR-2010	03:18	NS	8330 10GCSV0051 ICAL L8	C-000011.	0 g	0 mL	1	
04-MAR-2010	04:23	NS	BLANK	C-000012.	0 g	0 mL	1	
04-MAR-2010	05:29	NS	8330 10GCSV0058 ICV Std L5	C-000013.	0 g	0 mL	1	
04-MAR-2010	06:34	NS	8330 10GCSV0074 MRL 5-50 ng/mL	C-000014.	0 g	0 mL	1	
04-MAR-2010	07:40	NS	8330 Primer L6	C-000015.	0 g	0 mL	1	
04-MAR-2010	08:45	NS	STD_06 09GCSV0482 8330 200-500	C-000016.	0 g	0 mL	1	
04-MAR-2010	09:51	NS	LV7NF1AA 0061228 G0C020000-MB	C-000017.	10 g	80 mL	1	
04-MAR-2010	10:57	NS	LV03V1A8 0061228 A0B230467-1	C-000018.	10.03 g	80 mL	1	
04-MAR-2010	12:02	NS	LV0311A4 0061228 A0B230467-3	C-000019.	10 g	80 mL	1	
04-MAR-2010	13:08	NS	LV3R01AA 0056227 G0B250000-MB	C-000020.	10 g	80 mL	1	
04-MAR-2010	14:13	NS	LVTQQ1A4 0056227 A0B180429-1	C-000021.	10.06 g	80 mL	1	
04-MAR-2010	15:19	NS	LVTQ11AF 0056227 A0B180429-2	C-000022.	10.03 g	80 mL	1	
04-MAR-2010	16:24	NS	LVTQ31AF 0056227 A0B180429-4	C-000023.	10.01 g	80 mL	1	
04-MAR-2010	17:30	NS	LVTVA1AF 0056227 A0B180429-15	C-000024.	10.05 g	80 mL	1	
04-MAR-2010	18:35	NS	STD_05 10GCSV0072 8330 100-200	C-000025.	0 g	0 mL	1	
04-MAR-2010	19:41	NS	LVVF11AK 0056227 A0B180524-4	C-000026.	10.26 g	80 mL	1	
04-MAR-2010	20:46	NS	LVVF61AK 0056227 A0B180524-5	C-000027.	10.14 g	80 mL	1	
04-MAR-2010	21:52	NS	LVWW51DQ 0056227 A0B190524-1	C-000028.	9.99 g	80 mL	1	
04-MAR-2010	22:58	NS	LVWW91A8 0056227 A0B190524-2	C-000029.	10.08 g	80 mL	1	
05-MAR-2010	00:03	NS	LVWXC1AK 0056227 A0B190524-3	C-000030.	10.1 g	80 mL	1	
05-MAR-2010	01:09	NS	LVWXF1A5 0056227 A0B190524-4	C-000031.	10.16 g	80 mL	1	
05-MAR-2010	02:14	NS	LVWX01A4 0056227 A0B190524-9	C-000032.	10.06 g	80 mL	1	
05-MAR-2010	03:20	NS	LVWX11A8 0056227 A0B190524-10	C-000033.	10.1 g	80 mL	1	
05-MAR-2010	04:26	NS	LVWX81A8 0056227 A0B190524-13	C-000034.	10.1 g	80 mL	1	
05-MAR-2010	05:31	NS	STD_05 10GCSV0072 8330 100-200	C-000035.	0 g	0 mL	1	
05-MAR-2010	06:37	NS	LV9LJ1AA 0063069 G0C040000-MB	C-000036.	1000 mL	20 mL	1	
05-MAR-2010	07:42	NS	LV7HC1AA 0063069 G0C020446-1	C-000037.	1028.92 mL	20 mL	1	
05-MAR-2010	08:48	NS	LV7HK1AA 0063069 G0C020446-2	C-000038.	1008.59 mL	20 mL	1	
05-MAR-2010	09:53	NS	LV7HM1AC 0063069 G0C020446-3	C-000039.	1017.72 mL	20 mL	1	
05-MAR-2010	10:59	NS	LV7JN1AA 0063069 G0C020450-1	C-000040.	1026.48 mL	20 mL	1	
05-MAR-2010	12:05	NS	LV7JQ1AA 0063069 G0C020450-2	C-000041.	1031.44 mL	20 mL	1	
05-MAR-2010	13:10	NS	LV80F1AA 0062206 G0C030000-MB	C-000042.	1000 mL	20 mL	1	
05-MAR-2010	14:16	NS	LV72N1AC 0062206 G0C020502-1	C-000043.	1021.89 mL	20 mL	1	
05-MAR-2010	15:22	NS	LV72P1AC 0062206 G0C020502-2	C-000044.	1019.23 mL	20 mL	1	
05-MAR-2010	16:27	NS	STD_05 10GCSV0072 8330 100-200	C-000045.	0 g	0 mL	1	
05-MAR-2010	17:33	NS	LV72Q1AC 0062206 G0C020502-3	C-000046.	1007.65 mL	20 mL	1	
05-MAR-2010	18:38	NS	LV72T1AC 0062206 G0C020502-4	C-000047.	1005.04 mL	20 mL	1	
05-MAR-2010	19:44	NS	LV72W1AC 0062206 G0C020502-5	C-000048.	1003.62 mL	20 mL	1	
05-MAR-2010	20:49	NS	LV72X1AC 0062206 G0C020502-6	C-000049.	1013.93 mL	20 mL	1	
05-MAR-2010	21:55	NS	LV8AD1AA 0062040 G0C030000-MB	C-000050.	1000 mL	20 mL	1	

Sequence continued on next page

Page 2 of Batch 03032010 on Instrument LC9
For header information, refer to the first page of this batch's log.

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
05-MAR-2010	23:01	NS	LV8AD1AD 0062040 G0C030000-FB	C-000051.	1000 mL	20 mL	1	
06-MAR-2010	00:06	NS	LV42G1A5 0062040 A0B260454-7	C-000052.	1028.6 mL	20 mL	1	
06-MAR-2010	01:11	NS	LV4241A5 0062040 A0B260454-12	C-000053.	1023.03 mL	20 mL	1	
06-MAR-2010	02:17	NS	LV4281AT 0062040 A0B260454-13	C-000054.	976.97 mL	20 mL	1	
06-MAR-2010	03:22	NS	STD_05 10GCSV0072 8330 100-200	C-000055.	0 g	0 mL	1	
06-MAR-2010	04:28	NS	LV43C1AK 0062040 A0B260454-14	C-000056.	980.86 mL	20 mL	1	
06-MAR-2010	05:33	NS	LV43H1A5 0062040 A0B260454-17	C-000057.	1001.38 mL	20 mL	1	
06-MAR-2010	06:39	NS	LV9NF1AA 0063098G0C040000-MB	C-000058.	1000 mL	20 mL	1	
06-MAR-2010	07:44	NS	LV8931AA 0063098 G0C030534-1	C-000059.	999.62 mL	20 mL	1	
06-MAR-2010	08:50	NS	LV9AD1AA 0063098 G0C030534-2	C-000060.	1020.66 mL	20 mL	1	
06-MAR-2010	09:55	NS	LV9AE1AA 0063098 G0C030534-3	C-000061.	999.51 mL	20 mL	1	
06-MAR-2010	11:01	NS	LV9AG1AA 0063098 G0C030534-4	C-000062.	1008.69 mL	20 mL	1	
06-MAR-2010	12:06	NS	LV9AH1AA 0063098 G0C030534-5	C-000063.	1018.07 mL	20 mL	1	
06-MAR-2010	13:12	NS	LV9AJ1AA 0063098 G0C030534-6	C-000064.	1020.01 mL	20 mL	1	
06-MAR-2010	14:17	NS	STD_05 10GCSV0072 8330 100-200	C-000065.	0 g	0 mL	1	
06-MAR-2010	15:23	NS	LV9AL1AA 0063098 G0C030534-7	C-000066.	1021.98 mL	20 mL	1	
06-MAR-2010	16:28	NS	LV9AQ1AA 0063098 G0C030534-8	C-000067.	1009.5 mL	20 mL	1	
06-MAR-2010	17:33	NS	LV9AT1AA 0063098 G0C030534-9	C-000068.	1014.07 mL	20 mL	1	
06-MAR-2010	18:40	NS	LV9AX1AA 0063098 G0C030534-10	C-000069.	999.6 mL	20 mL	1	
06-MAR-2010	19:45	NS	LV9A01AA 0063098 G0C030534-11	C-000070.	1010.41 mL	20 mL	1	
06-MAR-2010	20:51	NS	LV9A11AA 0063098 G0C030534-12	C-000071.	976.57 mL	20 mL	1	
06-MAR-2010	21:56	NS	LV9A61AA 0063098 G0C030534-13	C-000072.	1008.79 mL	20 mL	1	
06-MAR-2010	23:02	NS	LV9A71AA 0063098 G0C030534-14	C-000073.	1018.41 mL	20 mL	1	
07-MAR-2010	00:07	NS	LV9A81AA 0063098 G0C030534-15	C-000074.	1011.12 mL	20 mL	1	
07-MAR-2010	01:13	NS	STD_05 10GCSV0072 8330 100-200	C-000075.	0 g	0 mL	1	

C-000016.D

Chromatography Summary

Method 8330 Target Analyte Results

Injection Date: 3/4/2010 8:45 Operator: NS
DataFile: LC9.I\03032010.B\C-000016.D Vial Num: 3
Instrument ID: LC9

Sample : **STD_06 09GCSV0482 8330 200-500ng/mL**

Method File: LC9.I\03032010.B\8330METCNAB.M
Start Cal Date: 3/3/2010 19:39 End Cal Date: 3/4/2010 3:18

Matrix: NONE SubList: CAL.sub SpikeList:
Samp. Info: STD_06 09GCSV0482 8330 200-500ng/mL;2
Misc. Info: ;6;;;;3;CAL.sub;;0;0;

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	36.92	6191	199.0000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
HMX	41.22	7671	196.2000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
RDX	28.31	6799	196.2000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
Picric ACID				500	-100%	Fails					500	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22.44	11872	196.7000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.59	15839	198.7000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
TETRYL	46.76	29282	211.2000<	200	6%	Acceptable					200	-100%	Fails		(±15)	45
Nitrobenzene	18.20	7790	203.2000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	38.22	9517	201.3000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
4-AM-2,6-DNT	34.21	8139	200.3000<	200	0%	Acceptable					200	-100%	Fails		(±15)	45
2-AM-4,6-DNT	33.38	12333	188.4000<	200	-6%	Acceptable					200	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	31.09	7168	192.9000<	200	-4%	Acceptable					200	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.74	11825	195.7000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
2-Nitrotoluene	25.96	6983	393.4000	400	-2%	Acceptable					400	-100%	Fails		(±15)	45
4-Nitrotoluene				400	-100%	Fails					400	-100%	Fails		(±15)	
3-Nitrotoluene	26.62	5035	196.4000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
Nitroglycerin				200	-100%	Fails		45.07	9894	205.2000	200	3%	Acceptable		(±15)	45
PETN				200	-100%	Fails		49.99	43799	198.6000<	200	-1%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.49	10855	198.1000	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
EGDN				200	-100%	Fails					200	-100%	Fails		(±15)	

mr 3/4/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000016.D
Lab Smp Id: STD_06 09GCSV0482 8
Inj Date : 04-MAR-2010 08:45
Operator : NS Inst ID: LC9.i
Smp Info : STD_06 09GCSV0482 8330 200-500ng/mL;1
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:46 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

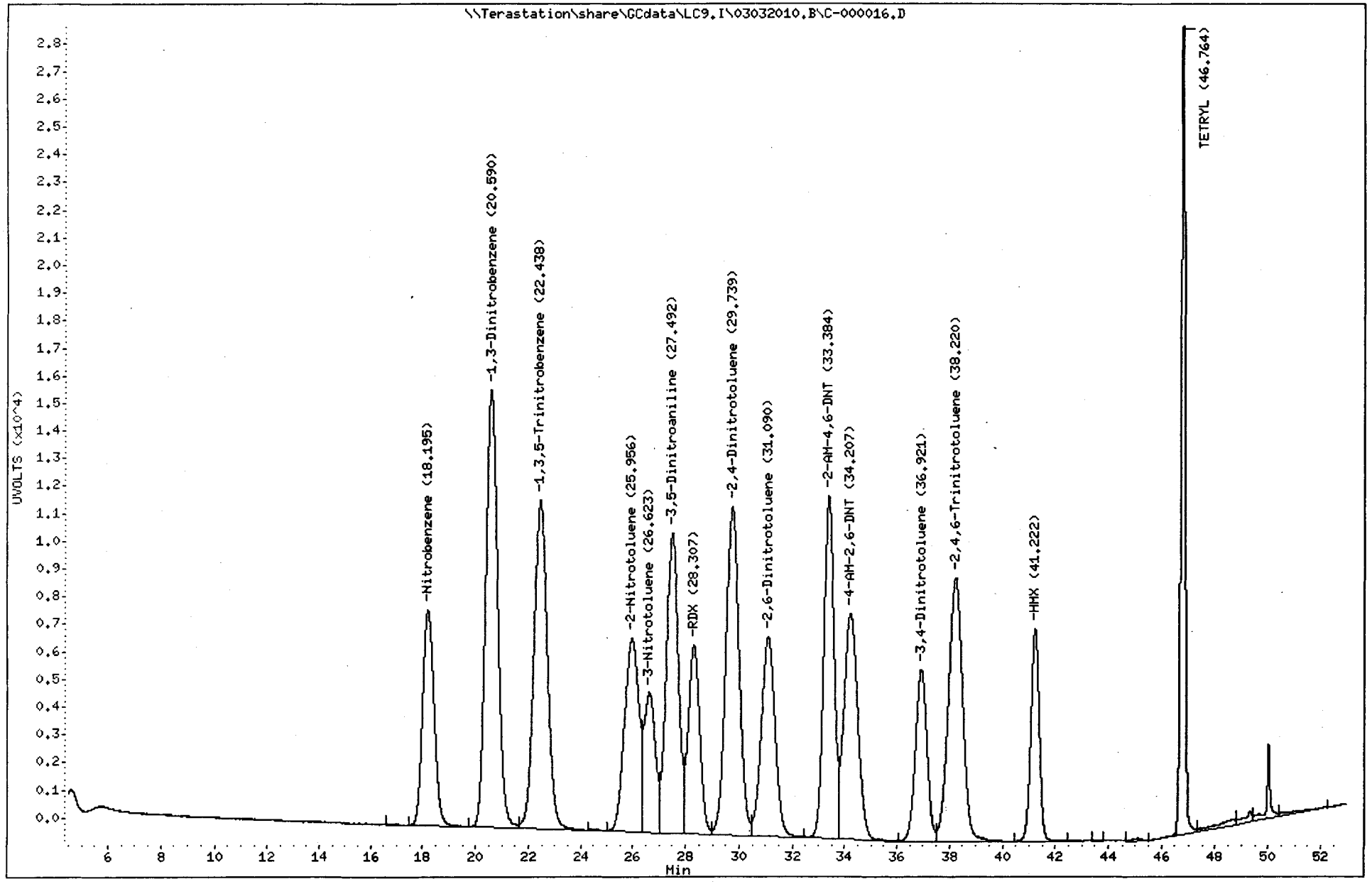
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
16.712	3764	24	0.006	0.01			
18.195	1183825	7790	0.007	4.84		13	Nitrobenzene
20.590	2500148	15839	0.006	9.84		10	1,3-Dinitrobenzene
22.438	2106263	11872	0.006	7.38		9	1,3,5-Trinitrobenze
24.561	6427	50	0.008	0.03			
25.956	1345003	6983	0.005	4.34		20	2-Nitrotoluene
26.623	757236	5035	0.007	3.13		22	3-Nitrotoluene
27.492	1729902	10855	0.006	6.75		11	3,5-Dinitroaniline
28.307	1024397	6799	0.007	4.22		7	RDX
29.739	2051402	11825	0.006	7.35		19	2,4-Dinitrotoluene
31.090	1270704	7168	0.006	4.45		18	2,6-Dinitrotoluene
33.384	1699566	12333	0.007	7.66		17	2-AM-4,6-DNT
34.207	1481024	8139	0.005	5.06		16	4-AM-2,6-DNT
36.921	943223	6191	0.007	3.84	$	1	3,4-Dinitrotoluene
38.220	1794282	9517	0.005	5.91		15	2,4,6-Trinitrotolue
41.222	852284	7671	0.009	4.77		4	HMX
43.442	3277	36	0.011	0.02			
45.066	12701	101	0.008	0.06			
46.764	1516134	29282	0.019	18.31		12	TETRYL
48.672	60269	191	0.003	0.11			
49.322	40115	409	0.010	0.25			
50.011	123740	2642	0.021	1.64			
52.157	34561	62	0.002	0.03			
	22540248	160814		100.000			

Total unknown % height = 2.150

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000016.D
Date : 04-MAR-2010 08:45
Client ID:
Sample Info: STD_06 09GCSV0482 8330 200-500ng/mL:1

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



1770

North Canton

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000016.D\C-000016.
Lab Smp Id: STD_06 09GCSV0482 8
Inj Date : 04-MAR-2010 08:45
Operator : NS Inst ID: LC9.i
Smp Info : STD_06 09GCSV0482 8330 200-500ng/mL;1
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:46 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

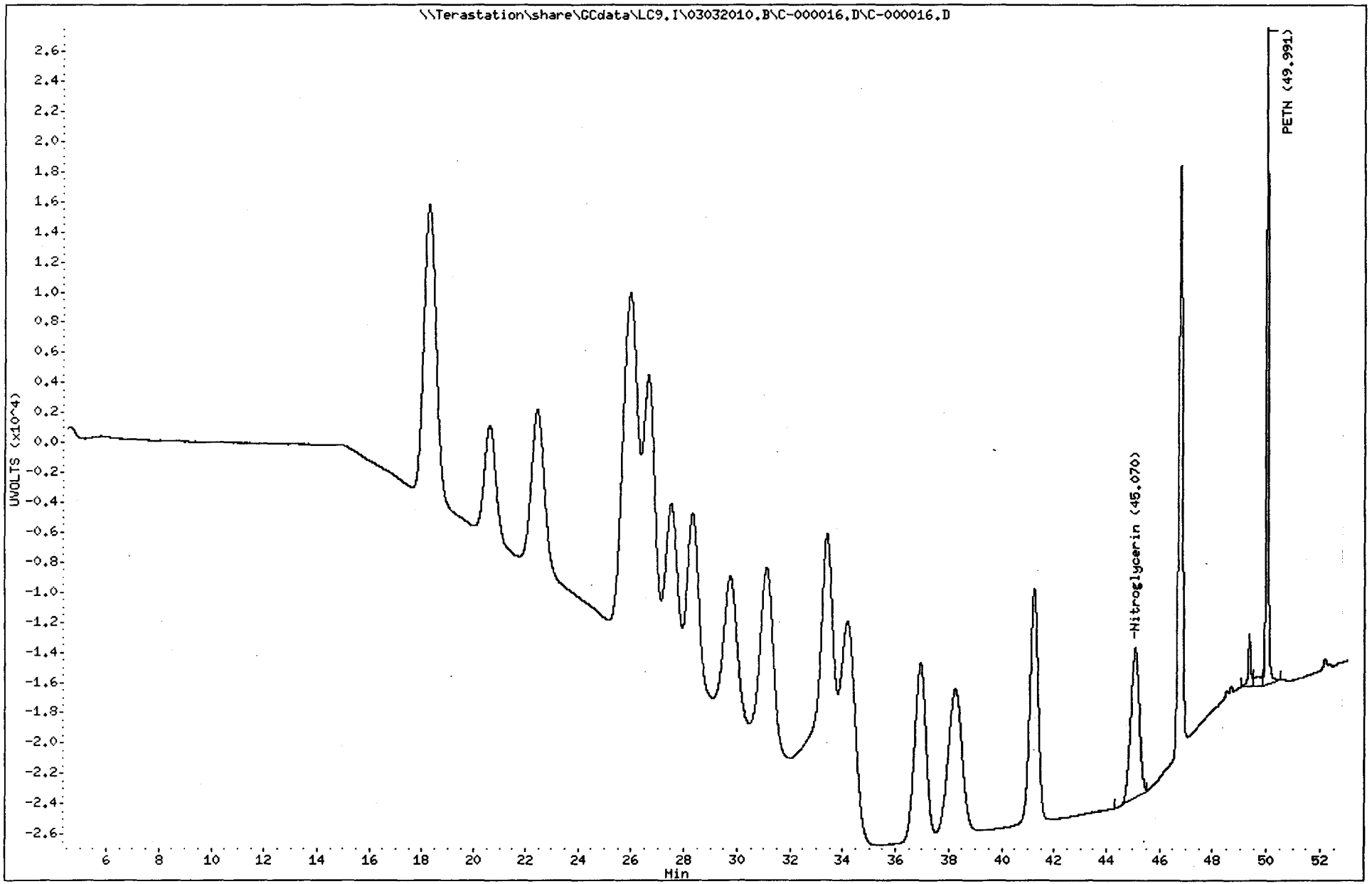
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
45.070	1085447	9894	0.009	17.09	14 Nitroglycerin
49.322	126605	3526	0.028	6.09	
49.655	60207	665	0.011	1.14	
49.991	1213562	43799	0.036	75.68	23 PETN
	2485821	57884		100.000	

Total unknown % height = 7.230

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000016.D\C-000016.D
Date : 04-MAR-2010 08:45
Client ID:
Sample Info: STD_06 09GCSV0482 8330 200-500ng/mL:1

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



1772

North Canton

TestAmerica West Sacramento

C-000020.D

Chromatography Summary

Injection Date: 3/4/2010 13:08 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000020.D **Vial Num:** 41

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LV3R01AA 0056227 G0B250000-MB**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3R01AA 0056227 G0B250000-MB;0

Misc. Info: ;;;10.00;80;2;SOLIDBQSM.sub;;0;1;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.78**	**-0.139**	**2116**	**544.0000<**							**0.0000**	**0.00**	**45**
HMX											12.1000	250.00	
RDX											12.0000	250.00	
Picric ACID											100.0000	1000.00	
1,3,5-Trinitrobenzene											10.0000	250.00	
1,3-Dinitrobenzene											4.2000	250.00	
TETRYL											10.0000	250.00	
Nitrobenzene	**18.37**	**0.179**	**1341**	**279.8000<**							**17.6000**	**250.00**	**45**
2,4,6-Trinitrotoluene											19.4000	250.00	
4-AM-2,6-DNT	33.90	-0.311	238	10.6900<							10.0000	250.00	45
2-AM-4,6-DNT											12.5000	300.00	
2,6-Dinitrotoluene											7.3000	250.00	
2,4-Dinitrotoluene											5.3000	250.00	
2-Nitrotoluene											13.0000	250.00	
4-Nitrotoluene											18.2000	500.00	
3-Nitrotoluene											15.5000	250.00	
Nitroglycerin											15.0000	500.00	
PETN						49.94	-0.021	894	32.4300<		25.0000	500.00	45
3,5-Dinitroaniline	27.18	-0.309	122	17.8100							8.8000	1300.00	45

> not cmf. M 3/9/10

not cmf.

N/A

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**544.0000**	**109**	**500.0000**		**0**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 2:32 PM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000020.d
Lab Smp Id: LV3R01AA 0056227 G0
Inj Date : 04-MAR-2010 13:08
Operator : NS Inst ID: LC9.i
Smp Info : LV3R01AA 0056227 G0B250000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 10:18 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

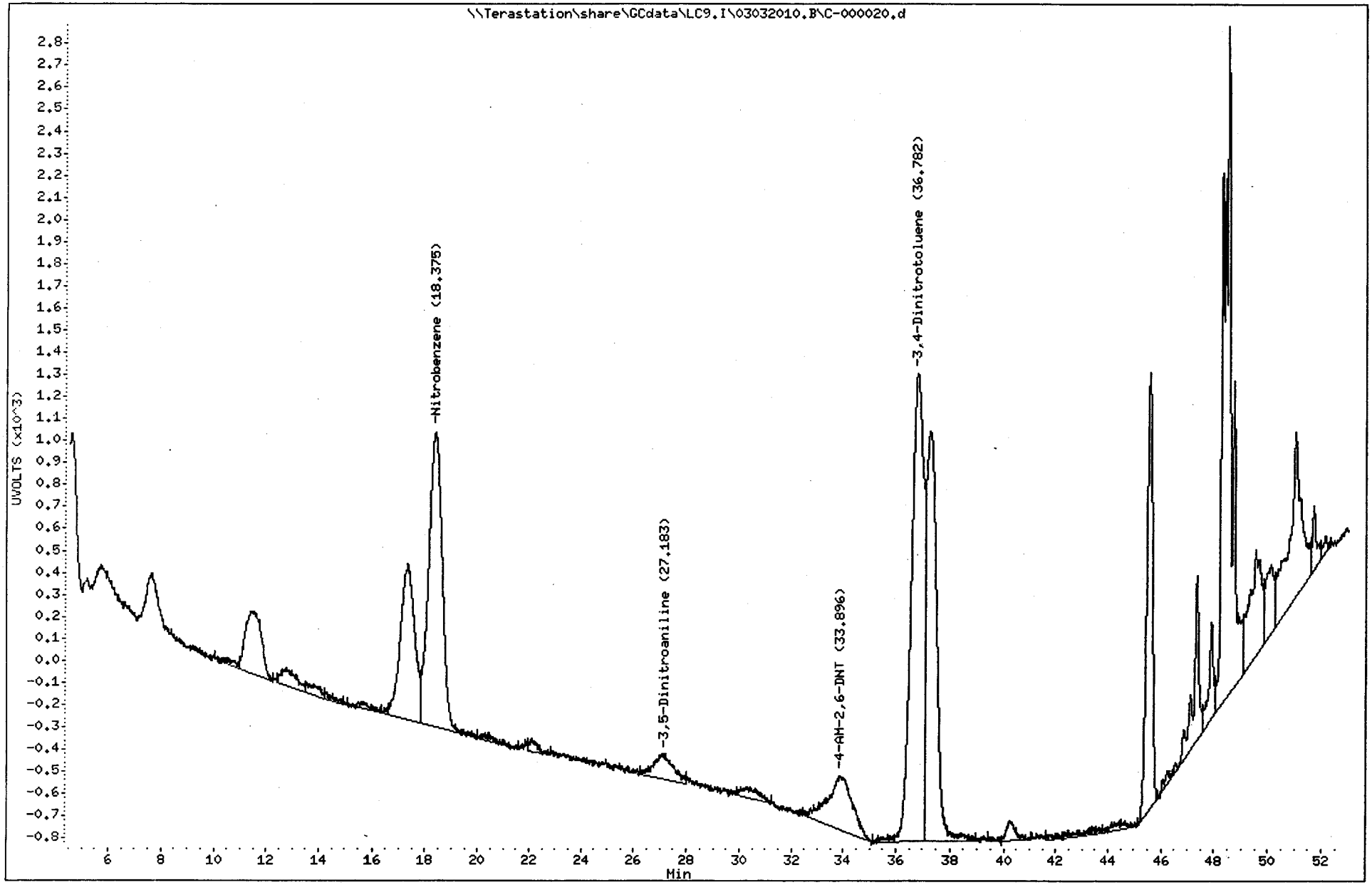
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
10.350	3258	15	0.005	0.09		
11.424	60343	282	0.005	1.87		
12.733	16093	81	0.005	0.53		
13.547	7361	48	0.007	0.31		
14.265	3179	30	0.009	0.19		
15.503	4478	27	0.006	0.17		
17.323	133594	709	0.005	4.72		
18.375	243639	1341	0.006	8.93		13 Nitrobenzene
20.269	5432	24	0.004	0.15		
22.100	6132	58	0.009	0.38		
27.183	31114	122	0.004	0.81		11 3,5-Dinitroaniline
30.333	10936	47	0.004	0.31		
33.896	80886	238	0.003	1.58		16 4-AM-2,6-DNT
36.782	337183	2116	0.006	14.09	$	1 3,4-Dinitrotoluene
37.255	261772	1854	0.007	12.35		
40.259	12292	79	0.006	0.52		
41.806	2555	20	0.008	0.13		
43.394	6996	28	0.004	0.18		
44.497	6917	40	0.006	0.26		
45.545	144860	1991	0.014	13.26		
47.346	60889	746	0.012	4.96		
47.890	26897	438	0.016	2.91		
48.483	324408	2874	0.009	19.30		
49.559	76519	400	0.005	2.66		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
50.083	33698	308	0.009	2.05	
51.032	123547	733	0.006	4.88	
51.700	15208	287	0.019	1.91	
52.131	4192	76	0.018	0.50	
	2044379	15012		100.000	

Total unknown % height = 74.59

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000020.d
Date : 04-MAR-2010 13:08
Client ID:
Sample Info: LV3R01AA 0056227 GOB250000-MB;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000020.d\C-000020.
Lab Smp Id: LV3R01AA 0056227 G0
Inj Date : 04-MAR-2010 13:08
Operator : NS Inst ID: LC9.i
Smp Info : LV3R01AA 0056227 G0B250000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 10:01 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

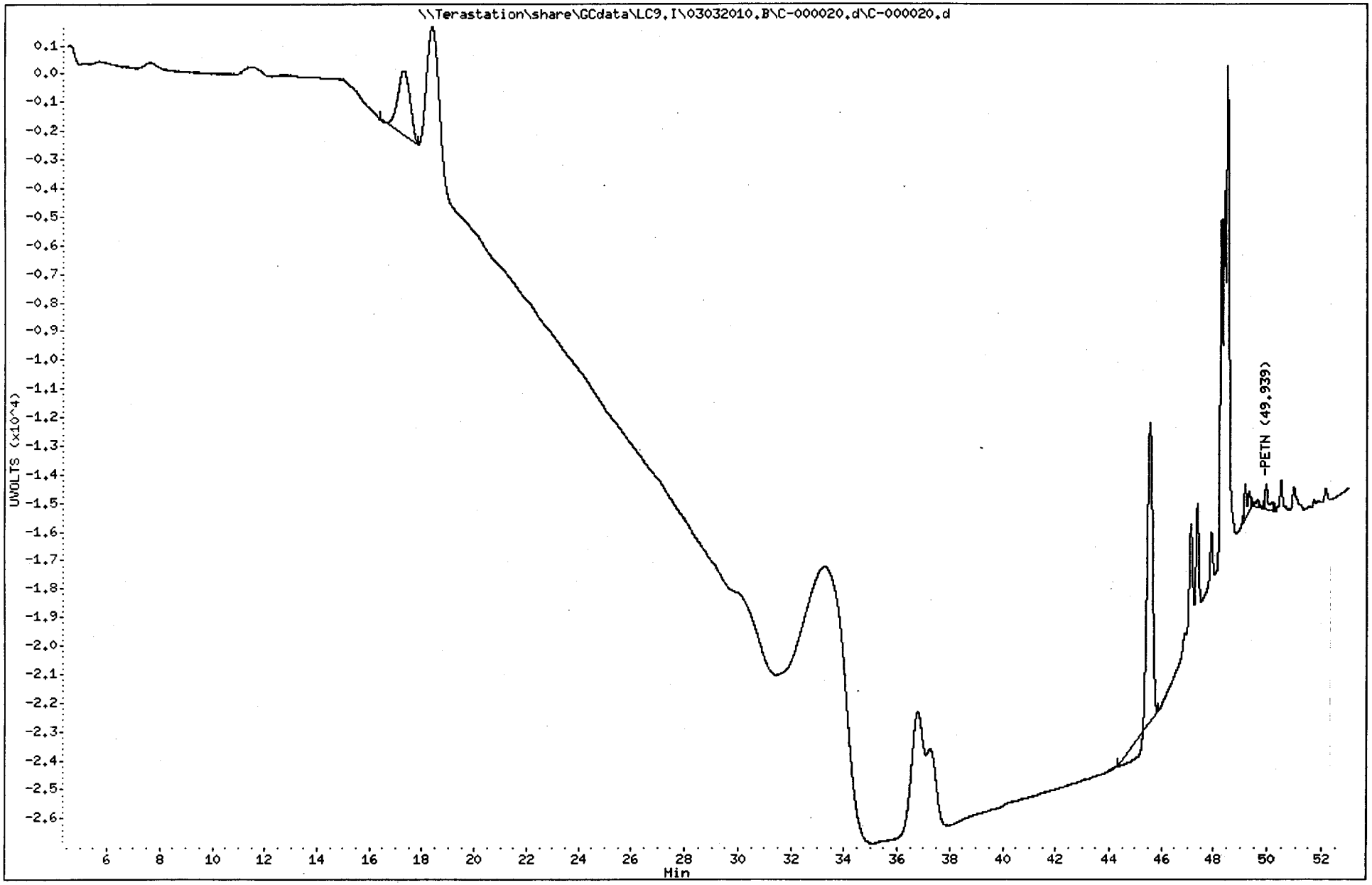
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.281	367210	2228	0.006	14.79	
45.548	620663	10479	0.017	69.58	
49.165	53666	1147	0.021	7.61	
49.629	17877	315	0.018	2.09	
49.939	40313	894	0.022	5.93	23 PETN
	1099729	15063		100.000	

Total unknown % height = 94.07

Data File: \\Terastation\share\GCdata\LC9,I\03032010,B\C-000020,d\C-000020,d
Date : 04-MAR-2010 13:08
Client ID:
Instrument: LC9,i
Sample Info: LV3R01AA 0056227 G0B250000-MB;0
Volume Injected (uL): 500,0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4,60



TestAmerica West Sacramento

C-000021.D

Chromatography Summary

Injection Date: 3/4/2010 14:13 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000021.D **Vial Num:** 42

Method 8330 Target Analyte Results

Instrument ID: LC9

Sample : **LVTQQ1A4 0056227 A0B180429-1**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.06 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTQQ1A4 0056227 A0B180429-1;0

Misc. Info: ;;;10.06;80;2;SOLIDBQSM.sub;;0;1;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.67**	**0.043**	**1952**	**498.8000<**							**0.0000**	**0.00**	**45**
HMX											12.0278	247.03	
RDX											11.9284	247.03	
Picric ACID											99.4036	988.11	
1,3,5-Trinitrobenzene											9.9404	247.03	
1,3-Dinitrobenzene											4.1750	247.03	
TETRYL											9.9404	247.03	
Nitrobenzene											17.4950	247.03	
2,4,6-Trinitrotoluene											19.2843	247.03	
4-AM-2,6-DNT											9.9404	247.03	
2-AM-4,6-DNT											12.4254	296.43	
2,6-Dinitrotoluene											7.2565	247.03	
2,4-Dinitrotoluene	29.52	0.021	57	7.5020<							5.2684	247.03	45
2-Nitrotoluene	25.81	0.086	54	24.2000							12.9225	247.03	45
4-Nitrotoluene											18.0915	494.05	
3-Nitrotoluene											15.4076	247.03	
Nitroglycerin											14.9105	494.05	
PETN						50.03	0.099	3749	136.2000<		24.8509	494.05	45
3,5-Dinitroaniline											8.7475	1284.54	

NR 3/9/10

not cont.

not cont.

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.0179**	**498.8000**	**100**	**497.0179**		**0**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/9/2010 11:17 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000021.d
Lab Smp Id: LVTQQ1A4 0056227 A0
Inj Date : 04-MAR-2010 14:13
Operator : NS Inst ID: LC9.i
Smp Info : LVTQQ1A4 0056227 A0B180429-1;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 08-Mar-2010 13:09 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

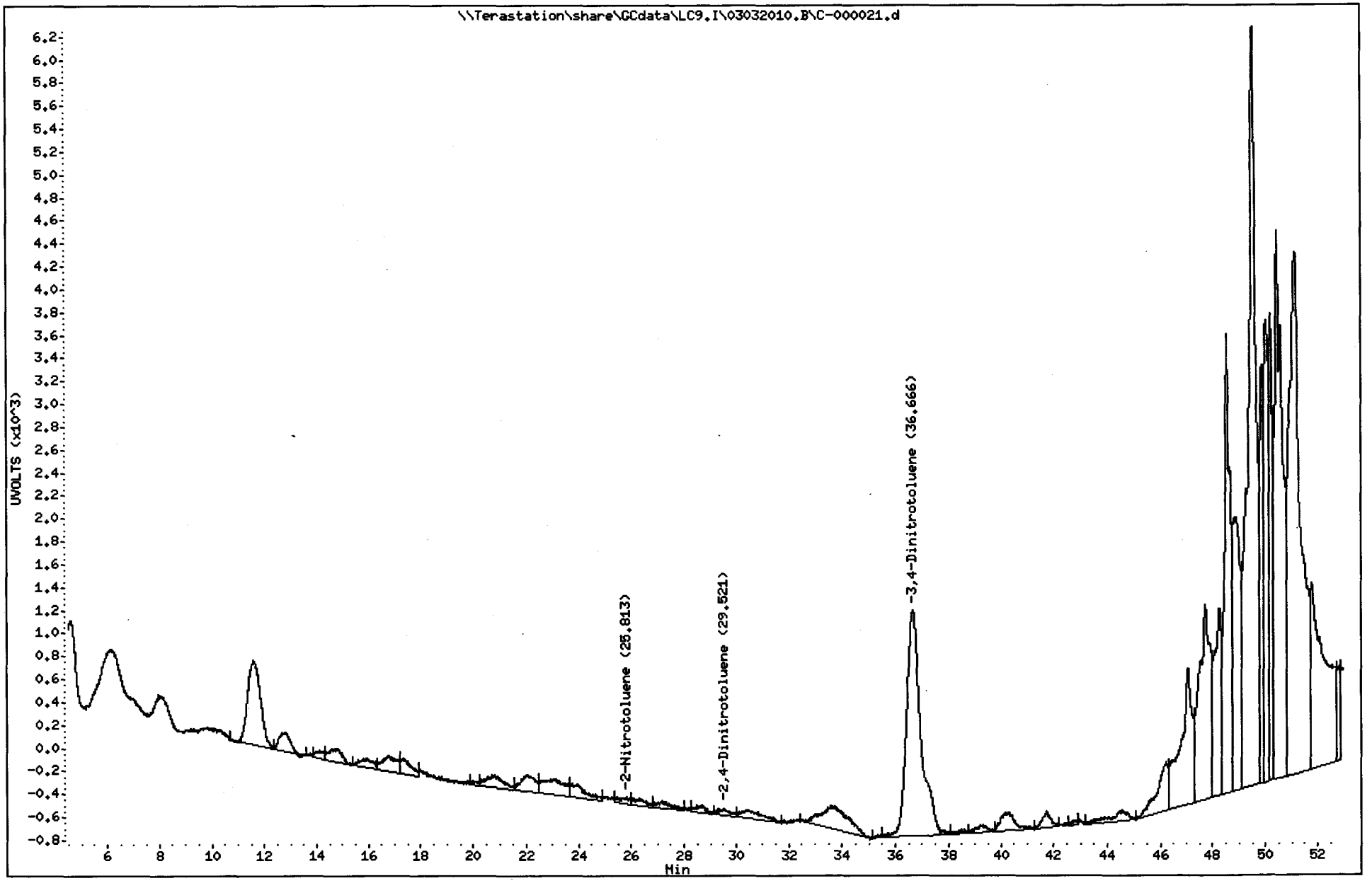
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
11.594	119807	718	0.006	1.55		
12.796	22556	158	0.007	0.34		
14.125	6581	62	0.009	0.13		
14.679	19194	106	0.006	0.22		
15.937	12286	73	0.006	0.15		
16.749	25447	131	0.005	0.28		
17.309	18401	127	0.007	0.27		
20.090	2740	29	0.011	0.06		
20.802	23231	107	0.005	0.23		
22.040	27015	142	0.005	0.30		
23.090	40570	131	0.003	0.28		
23.759	22805	118	0.005	0.25		
25.813	7192	54	0.008	0.11	20	2-Nitrotoluene
26.064	8841	55	0.006	0.11		
27.141	11076	55	0.005	0.11		
28.559	9085	52	0.006	0.11		
29.521	9481	57	0.006	0.12	19	2,4-Dinitrotoluene
30.478	21201	74	0.003	0.15		
33.589	68603	195	0.003	0.42		
36.666	368789	1952	0.005	4.21	$ 1	3,4-Dinitrotoluene
38.448	2881	28	0.010	0.06		
39.276	8894	54	0.006	0.11		
40.188	29912	159	0.005	0.34		
41.728	16075	137	0.009	0.29		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
42.833	2860	39	0.014	0.08	
44.582	20760	86	0.004	0.18	
46.211	65328	423	0.006	0.91	
47.064	184526	1175	0.006	2.53	
47.725	256104	1688	0.007	3.64	
48.259	139775	1621	0.012	3.50	
48.547	317615	3949	0.012	8.53	
48.880	228446	2382	0.010	5.14	
49.545	721448	6594	0.009	14.44	
49.874	141709	3637	0.026	7.85	
50.033	237188	4032	0.017	8.71	
50.197	212369	4100	0.019	8.86	
50.449	490178	4776	0.010	10.32	
51.132	759339	4556	0.006	9.84	
51.801	324127	1621	0.005	3.50	
52.819	26905	821	0.031	1.77	
	5031338	46274		100.000	

Total unknown % height = 95.56

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000021.d
Date : 04-MAR-2010 14:13
Client ID:
Instrument: LC9.i
Sample Info: LVTQQ1A4 0056227 A0B180429-1;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000021.d\C-000021.
Lab Smp Id: LVTQQ1A4 0056227 A0
Inj Date : 04-MAR-2010 14:13
Operator : NS Inst ID: LC9.i
Smp Info : LVTQQ1A4 0056227 A0B180429-1;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 08-Mar-2010 13:09 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

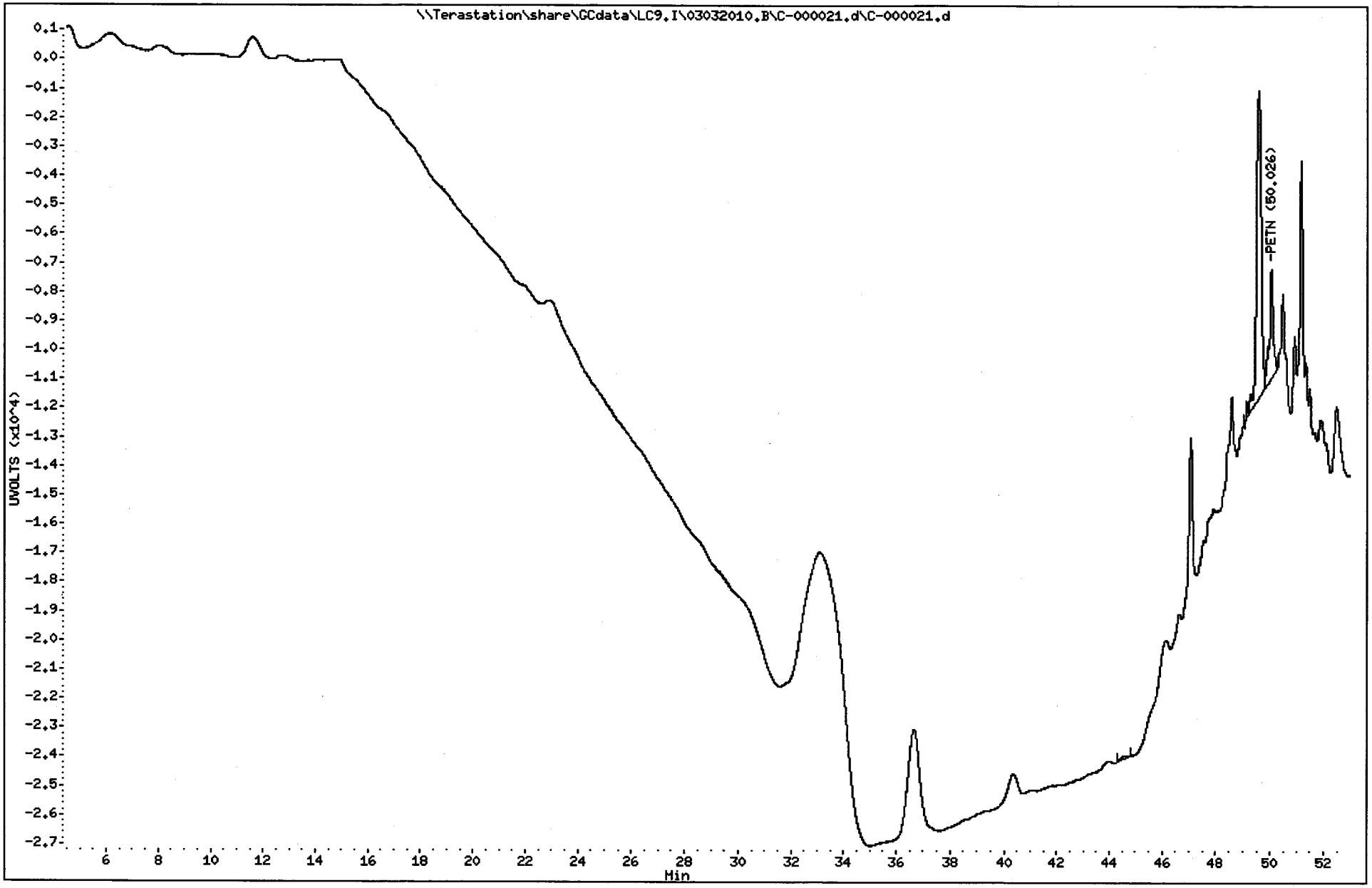
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.632	8215	91	0.011	0.62	
49.568	669734	10622	0.016	73.46	
50.026	184558	3749	0.020	25.92	23 PETN
	862507	14462		100.000	

Total unknown % height = 74.08

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000021.d\C-000021.d
Date : 04-MAR-2010 14:13
Client ID:
Sample Info: LVTQQ1A4 0056227 A0B180429-1;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

C-000022.D

Chromatography Summary

Injection Date: 3/4/2010 15:19 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000022.D **Vial Num:** 43

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LVTQ11AF 0056227 A0B180429-2**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.03 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTQ11AF 0056227 A0B180429-2;0

Misc. Info: ;;;10.03;80;2;SOLIDBQSM.sub;;0;1;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.71**	**0.101**	**1946**	**498.8000<**							**0.0000**	**0.00**	**45**
HMX	40.99	0.063	102	20.8000<							12.0638	248.51	45
RDX											11.9641	248.51	
Picric ACID											99.7009	994.03	
1,3,5-Trinitrobenzene											9.9701	248.51	
1,3-Dinitrobenzene											4.1874	248.51	
TETRYL											9.9701	248.51	
Nitrobenzene											17.5474	248.51	
2,4,6-Trinitrotoluene											19.3420	248.51	
4-AM-2,6-DNT											9.9701	248.51	
2-AM-4,6-DNT	33.27	0.148	119	14.5000<							12.4626	298.21	45
2,6-Dinitrotoluene											7.2782	248.51	
2,4-Dinitrotoluene	29.54	0.055	58	7.6560<							5.2841	248.51	45
2-Nitrotoluene											12.9611	248.51	
4-Nitrotoluene											18.1456	497.01	
3-Nitrotoluene											15.4536	248.51	
Nitroglycerin											14.9551	497.01	
PETN											24.9252	497.01	
3,5-Dinitroaniline	27.24	-0.010	72	10.4800							8.7737	1292.23	45

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**498.5045**	**498.8000**	**100**	**498.5045**		**0**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/5/2010 9:30 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000022.d
Lab Smp Id: LVTQ11AF 0056227 A0
Inj Date : 04-MAR-2010 15:19
Operator : NS Inst ID: LC9.i
Smp Info : LVTQ11AF 0056227 A0B180429-2;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 05-Mar-2010 09:24 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 43
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

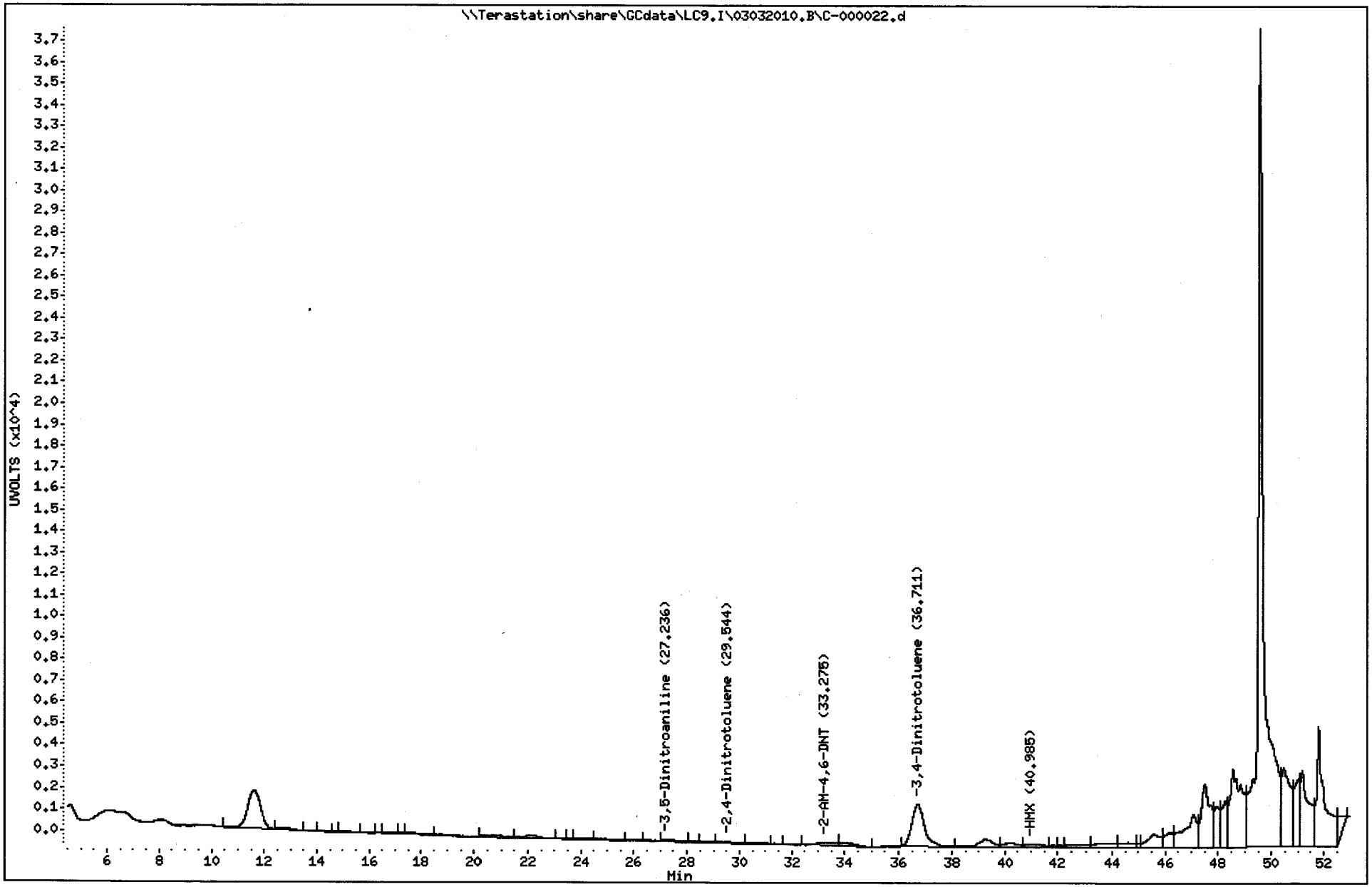
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
11.609	304972	1766	0.006	2.34	
12.714	16457	98	0.006	0.13	
13.649	3778	35	0.009	0.04	
14.018	6457	50	0.008	0.06	
14.681	3400	56	0.016	0.07	
14.960	11426	75	0.007	0.09	
15.761	7137	47	0.007	0.06	
16.864	13250	94	0.007	0.12	
17.255	8615	105	0.012	0.13	
17.427	19457	116	0.006	0.15	
20.855	17878	90	0.005	0.11	
22.112	25048	151	0.006	0.20	
23.101	4008	31	0.008	0.04	
23.470	3529	52	0.015	0.06	
23.986	11028	72	0.007	0.09	
24.598	11077	42	0.004	0.05	
26.412	5473	36	0.007	0.04	
27.236	14514	72	0.005	0.09	11 3,5-Dinitroaniline
28.117	3182	37	0.012	0.04	
28.663	8314	55	0.007	0.07	
29.544	15265	58	0.004	0.07	19 2,4-Dinitrotoluene
30.596	13304	71	0.005	0.09	
31.284	2747	34	0.012	0.04	
33.275	30624	119	0.004	0.15	17 2-AM-4,6-DNT

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
34.082	28859	158	0.005	0.20	
36.711	319676	1946	0.006	2.58	$ 1 3,4-Dinitrotoluene
39.260	61401	335	0.005	0.44	
40.236	31000	162	0.005	0.21	
40.985	22712	102	0.004	0.13	4 HMX
41.876	6453	92	0.014	0.12	
42.050	4542	72	0.016	0.09	
42.948	29867	131	0.004	0.17	
43.673	44284	156	0.004	0.20	
44.555	38121	196	0.005	0.26	
44.987	8909	175	0.020	0.23	
45.592	99480	592	0.006	0.78	
46.216	73382	661	0.009	0.87	
47.064	266880	1535	0.006	2.03	
47.499	355855	2926	0.008	3.88	
47.939	123946	1895	0.015	2.51	
48.267	167366	2150	0.013	2.85	
48.558	594320	3645	0.006	4.83	
49.569	2900482	38195	0.013	50.96	
50.452	427033	3645	0.009	4.83	
51.017	223588	3144	0.014	4.17	
51.170	422181	3555	0.008	4.71	
51.810	606791	5582	0.009	7.41	
52.644	97731	917	0.009	1.21	
	7515798	75329		100.000	

Total unknown % height = 96.98

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000022.d
Date : 04-MAR-2010 15:19
Client ID:
Sample Info: LVTQ11AF 0056227 A0B180429-2;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000022.d\C-000022.
Lab Smp Id: LVTQ11AF 0056227 A0
Inj Date : 04-MAR-2010 15:19
Operator : NS Inst ID: LC9.i
Smp Info : LVTQ11AF 0056227 A0B180429-2;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 05-Mar-2010 06:32 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 43
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

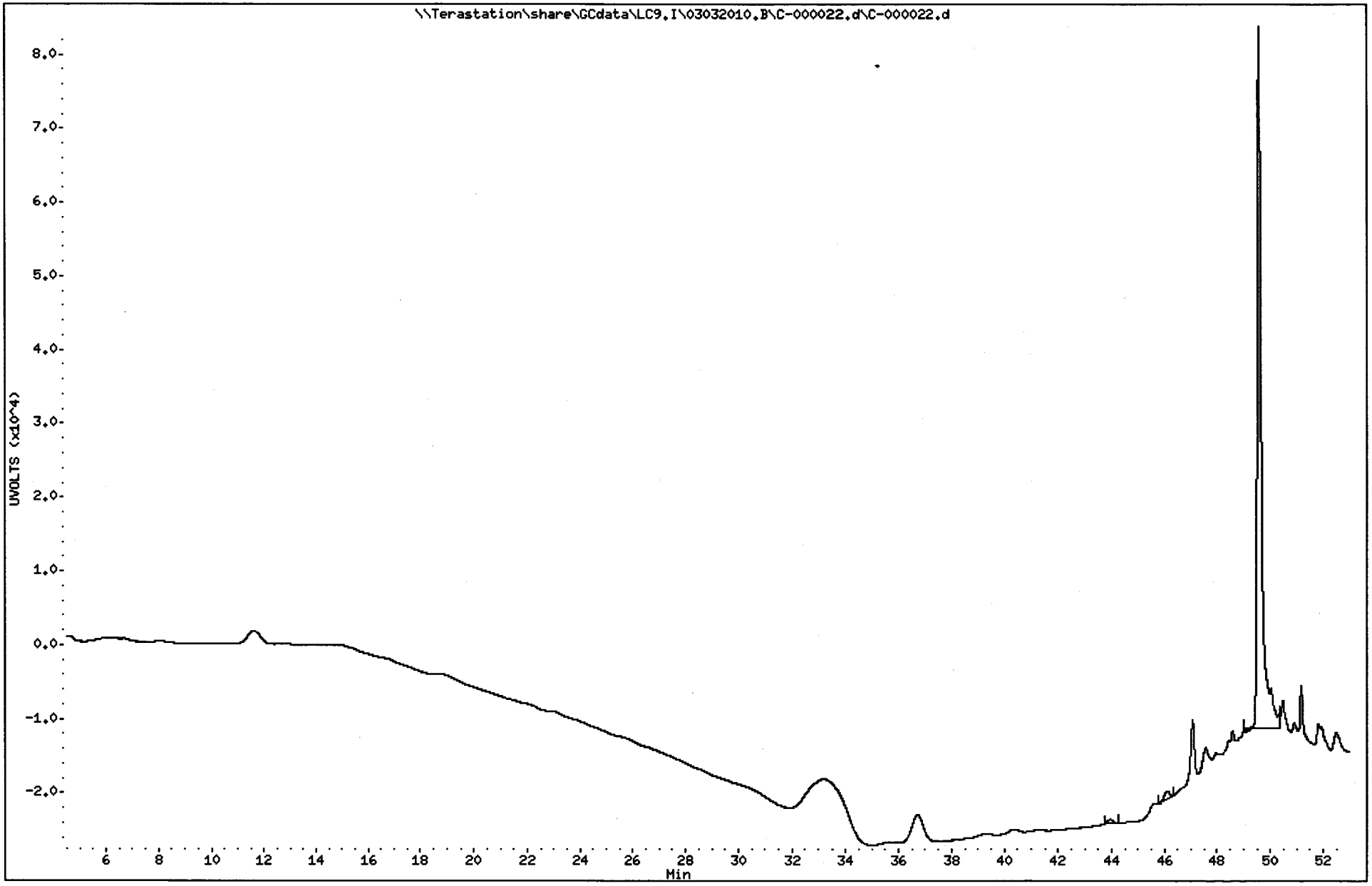
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
43.945	37230	509	0.014	0.52	
46.109	71885	1019	0.014	1.05	
49.570	4935998	94621	0.019	98.43	
	5045112	96149		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000022.d\C-000022.d
Date : 04-MAR-2010 15:19
Client ID:
Instrument: LC9.i
Sample Info: LVTQ11AF 0056227 A0B180429-2;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

C-000023.D

Chromatography Summary

Injection Date: 3/4/2010 16:24 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000023.D **Vial Num:** 44

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LVTQ31AF 0056227 A0B180429-4**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.01 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTQ31AF 0056227 A0B180429-4;0

Misc. Info: ;;;10.01;80;2;SOLIDBQSM.sub;;0;1;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.70**	**0.093**	**1958**	**502.9000<**							**0.0000**	**0.00**	**45**
HMX	40.91	-0.015	314	64.1700<	conf.						12.0879	249.50	45
RDX											11.9880	249.50	
Picric ACID											99.9001	998.00	
1,3,5-Trinitrobenzene											9.9900	249.50	
1,3-Dinitrobenzene	20.49	0.034	1048	105.1000<	not conf.						4.1958	249.50	45
TETRYL											9.9900	249.50	
Nitrobenzene											17.5824	249.50	
2,4,6-Trinitrotoluene											19.3806	249.50	
4-AM-2,6-DNT	**33.71**	**-0.169**	**2339**	**433.6000<**	MR 3/5/10						**9.9900**	**249.50**	**45**
2-AM-4,6-DNT											12.4875	299.40	
2,6-Dinitrotoluene											7.2927	249.50	
2,4-Dinitrotoluene											5.2947	249.50	
2-Nitrotoluene											12.9870	249.50	
4-Nitrotoluene											18.1818	499.00	
3-Nitrotoluene											15.4845	249.50	
Nitroglycerin											14.9850	499.00	
PETN						49.90	-0.046	2077	752.2600<	not conf	24.9750	499.00	45
3,5-Dinitroaniline	27.30	0.056	63	9.1870	NA						8.7912	1297.40	45

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**499.5005**	**502.9000**	**101**	**499.5005**		**0**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/5/2010 9:31 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000023.d
Lab Smp Id: LVTQ31AF 0056227 A0
Inj Date : 04-MAR-2010 16:24
Operator : NS Inst ID: LC9.i
Smp Info : LVTQ31AF 0056227 A0B180429-4;0
Misc Info : ;;;10.01;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 05-Mar-2010 09:24 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 44
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

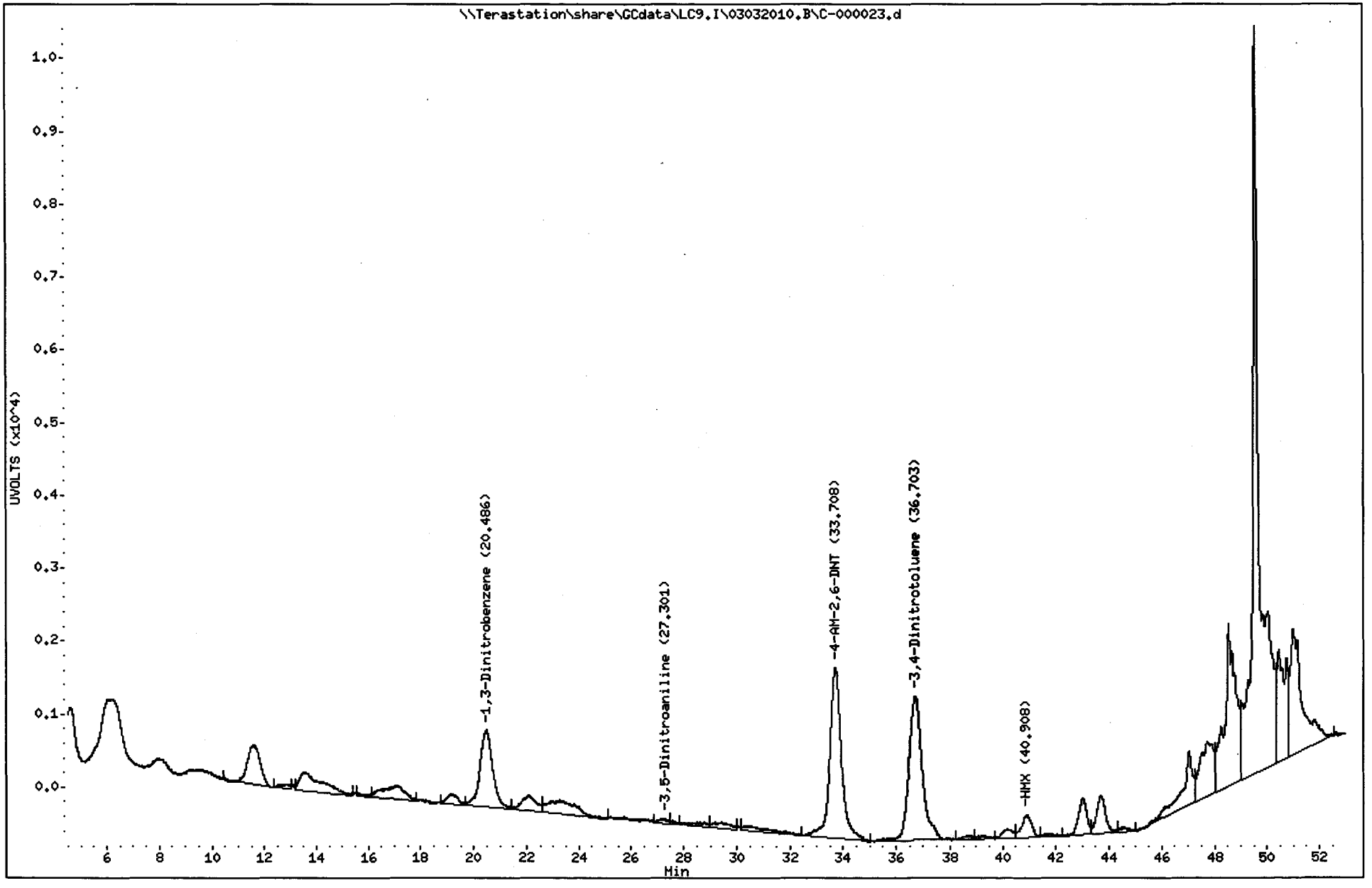
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
11.592	87760	534	0.006	2.08			
12.643	7234	48	0.007	0.18			
13.511	74032	242	0.003	0.94			
15.613	3940	35	0.009	0.13			
17.147	53767	180	0.003	0.70			
19.149	19982	135	0.007	0.52			
20.486	180732	1048	0.006	4.08		10	1,3-Dinitrobenzene
22.074	40150	195	0.005	0.76			
23.237	68682	182	0.003	0.70			
27.301	5976	63	0.011	0.24		11	3,5-Dinitroaniline
27.543	2530	37	0.015	0.14			
28.505	11458	55	0.005	0.21			
29.190	17307	68	0.004	0.26			
30.477	17720	71	0.004	0.27			
33.708	361026	2339	0.006	9.12		16	4-AM-2,6-DNT
36.703	338469	1958	0.006	7.63	$	1	3,4-Dinitrotoluene
38.738	6704	58	0.009	0.22			
39.278	6017	37	0.006	0.14			
40.191	18009	131	0.007	0.51			
40.908	42104	314	0.007	1.22		4	HMX
41.786	5378	46	0.009	0.17			
43.020	55589	492	0.009	1.91			
43.696	61358	515	0.008	2.00			
44.551	7891	62	0.008	0.24			

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
47.041	100196	729	0.007	2.84	
47.750	134134	715	0.005	2.78	
48.561	331110	2022	0.006	7.88	
49.563	999877	10089	0.010	39.49	
50.444	182761	1538	0.008	5.99	
51.012	282013	1708	0.006	6.65	
	3523906	25646		100.000	

Total unknown % height = 77.71

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000023.d
Date : 04-MAR-2010 16:24
Client ID:
Instrument: LC9.i
Sample Info: LVTQ31AF 0056227 A0B180429-4;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000023.d\C-000023.
Lab Smp Id: LVTQ31AF 0056227 A0
Inj Date : 04-MAR-2010 16:24
Operator : NS Inst ID: LC9.i
Smp Info : LVTQ31AF 0056227 A0B180429-4;0
Misc Info : ;;;10.01;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 05-Mar-2010 06:32 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 44
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

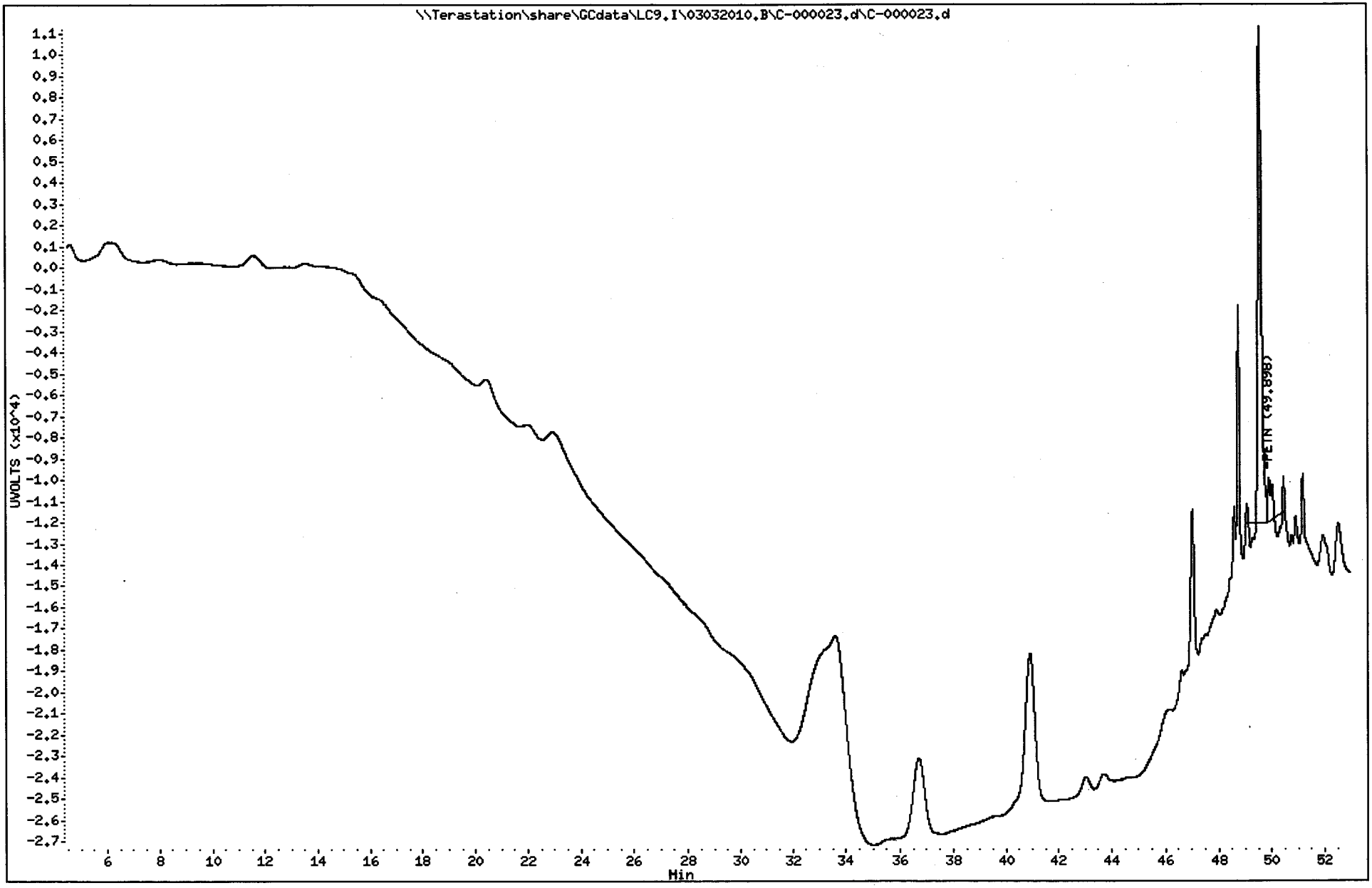
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
49.563	1001267	23336	0.023	91.83	
49.898	104885	2077	0.020	8.17	23 PETN
	1106152	25413		100.000	

Total unknown % height = 91.83

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000023.d\C-000023.d
Date : 04-MAR-2010 16:24
Client ID:
Sample Info: LVTQ31AF 0056227 A0B180429-4;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

C-000024.D

Chromatography Summary

Injection Date: 3/4/2010 17:30 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000024.D **Vial Num:** 45

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LVTVA1AF 0056227 A0B180429-15**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.05 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVTVA1AF 0056227 A0B180429-15;0

Misc. Info: ;;;10.05;80;2;SOLIDBQSM.sub;;0;1;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.60**	**-0.010**	**1940**	**496.3000<**							**0.0000**	**0.00**	**45**
HMX											12.0398	247.52	
RDX											11.9403	247.52	
Picric ACID											99.5025	990.07	
1,3,5-Trinitrobenzene											9.9502	247.52	
1,3-Dinitrobenzene											4.1791	247.52	
TETRYL											9.9502	247.52	
Nitrobenzene											17.5124	247.52	
2,4,6-Trinitrotoluene											19.3035	247.52	
4-AM-2,6-DNT											9.9502	247.52	
2-AM-4,6-DNT											12.4378	297.02	
2,6-Dinitrotoluene											7.2637	247.52	
2,4-Dinitrotoluene	29.30	-0.192	49	6.4530<							5.2736	247.52	45
2-Nitrotoluene	25.61	-0.103	94	42.1600							12.9353	247.52	45
4-Nitrotoluene											18.1095	495.04	
3-Nitrotoluene											15.4229	247.52	
Nitroglycerin											14.9254	495.04	
PETN						49.85	-0.098	2233	80.5900<		24.8756	495.04	45
3,5-Dinitroaniline											8.7562	1287.10	

m 3/5/10

> mt conf.

conf.

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.5124**	**496.3000**	**100**	**497.5124**		**0**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/5/2010 9:32 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000024.d
Lab Smp Id: LVTVA1AF 0056227 A0
Inj Date : 04-MAR-2010 17:30
Operator : NS Inst ID: LC9.i
Smp Info : LVTVA1AF 0056227 A0B180429-15;0
Misc Info : ;;;10.05;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 05-Mar-2010 09:24 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

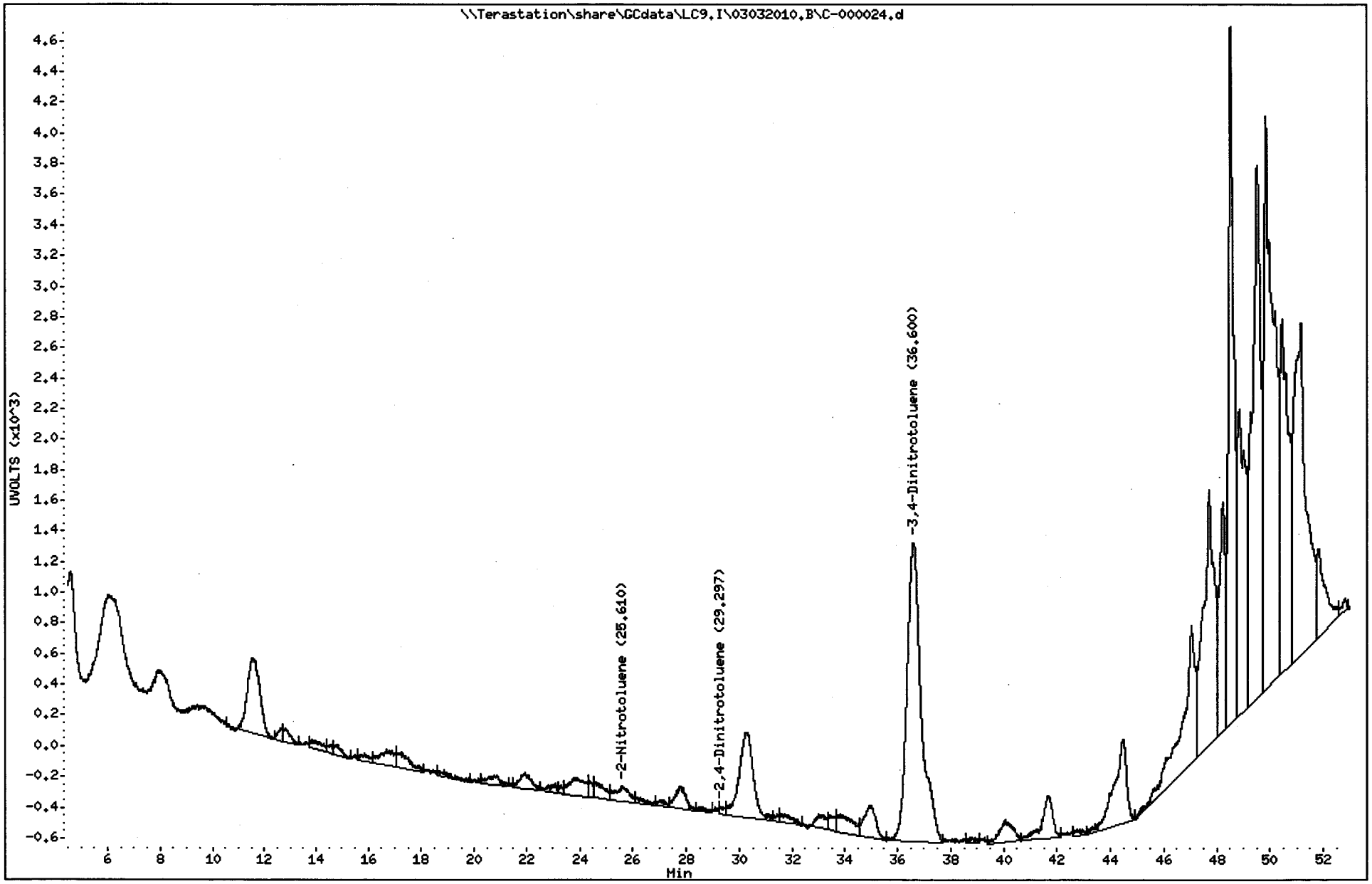
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
11.558	79677	482	0.006	1.65	
12.666	5322	80	0.015	0.27	
12.804	7705	81	0.011	0.27	
13.967	8358	53	0.006	0.18	
14.575	3935	56	0.014	0.19	
14.762	5814	57	0.010	0.19	
15.867	5745	45	0.008	0.15	
16.701	18434	101	0.005	0.34	
17.224	17541	102	0.006	0.34	
18.644	4515	28	0.006	0.09	
20.866	10544	60	0.006	0.20	
21.941	15749	106	0.007	0.36	
23.061	5204	51	0.010	0.17	
23.285	2741	54	0.020	0.18	
23.925	24322	115	0.005	0.39	
24.370	4994	110	0.022	0.37	
24.593	14392	101	0.007	0.34	
25.610	17330	94	0.005	0.32	20 2-Nitrotoluene
26.107	5305	39	0.007	0.13	
27.011	3767	39	0.010	0.13	
27.784	20121	144	0.007	0.49	
28.617	3010	35	0.012	0.12	
29.297	3218	49	0.015	0.16	19 2,4-Dinitrotoluene
30.273	102864	556	0.005	1.90	

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
31.412	2870	45	0.016	0.15	
31.600	6511	56	0.009	0.19	
32.995	11432	88	0.008	0.30	
33.440	8300	96	0.012	0.32	
33.847	22979	117	0.005	0.40	
34.928	32816	204	0.006	0.69	
36.600	361231	1940	0.005	6.65	$ 1 3,4-Dinitrotoluene
38.829	3938	41	0.010	0.14	
40.055	24756	143	0.006	0.49	
41.648	39364	269	0.007	0.92	
42.868	3458	38	0.011	0.13	
44.477	91071	543	0.006	1.86	
47.048	151283	890	0.006	3.05	
47.714	241121	1662	0.007	5.70	
48.225	108287	1497	0.014	5.13	
48.520	323079	4556	0.014	15.83	
48.835	207894	1997	0.010	6.85	
49.516	394677	3465	0.009	11.88	
49.845	492539	3734	0.008	12.80	
50.440	245335	2315	0.009	7.94	
51.141	356753	2165	0.006	7.42	
51.811	64898	573	0.009	1.96	
52.806	8081	79	0.010	0.27	
	3593279	29151		100.000	

Total unknown % height = 92.87

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000024.d
Date : 04-MAR-2010 17:30
Client ID:
Sample Info: LVTVA1AF 0056227 A0B180429-15;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000024.d\C-000024.
Lab Smp Id: LVTVA1AF 0056227 A0
Inj Date : 04-MAR-2010 17:30
Operator : NS Inst ID: LC9.i
Smp Info : LVTVA1AF 0056227 A0B180429-15;0
Misc Info : ;;;10.05;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 05-Mar-2010 06:32 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.485	71093	1050	0.015	11.51	
49.121	20853	994	0.048	10.90	
49.287	11739	450	0.038	4.93	
49.557	270074	4391	0.016	48.17	
49.846	167692	2233	0.013	24.49	23 PETN
	541450	9118		100.000	

Total unknown % height = 75.51

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000024.d\C-000024.d

Date : 04-MAR-2010 17:30

Client ID:

Instrument: LC9.i

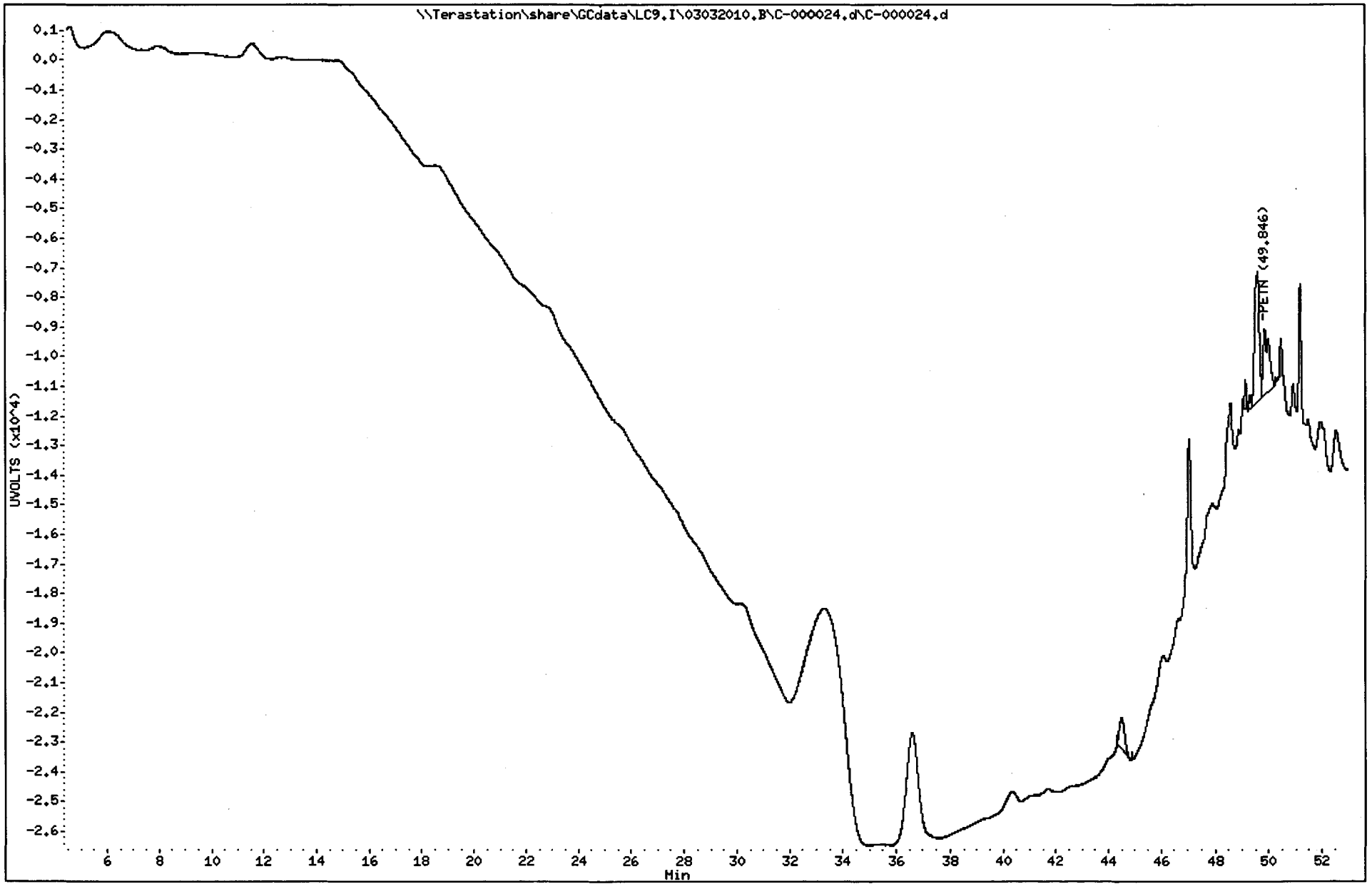
Sample Info: LVTVA1AF 0056227 A0B180429-15;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000025.D

Chromatography Summary

Injection Date: 3/4/2010 18:35 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000025.D **Vial Num:** 4

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100-200ng/mL**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Misc. Info: ;6;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	36.61	3171	101.9000<	100	2%	Acceptable					100	-100%	Fails		(±15)	45
HMX	40.92	3798	97.1200<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
RDX	28.04	3408	98.3300<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID				200	-100%	Fails					200	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22.32	5931	98.2800<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.45	7955	99.8100<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	46.65	12674	91.4000<	100	-9%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	18.09	3898	101.7000<	100	2%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	37.98	4508	95.3400<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	33.88	4718	114.2000<	100	14%	Acceptable					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	33.13	6322	96.5900<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	30.81	3665	98.6400<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.49	5943	98.3500<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	25.71	3546	199.8000	200	0%	Acceptable					200	-100%	Fails		(±15)	45
4-Nitrotoluene				200	-100%	Fails					200	-100%	Fails		(±15)	
3-Nitrotoluene	26.38	2535	98.8700<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				100	-100%	Fails		44.85	4778	99.0800	100	-1%	Acceptable		(±15)	45
PETN				100	-100%	Fails		49.94	21864	99.1300<	100	-1%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.25	5416	98.8200	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				100	-100%	Fails					100	-100%	Fails		(±15)	

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Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/5/2010 9:25 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000025.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 04-MAR-2010 18:35
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 19:36 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

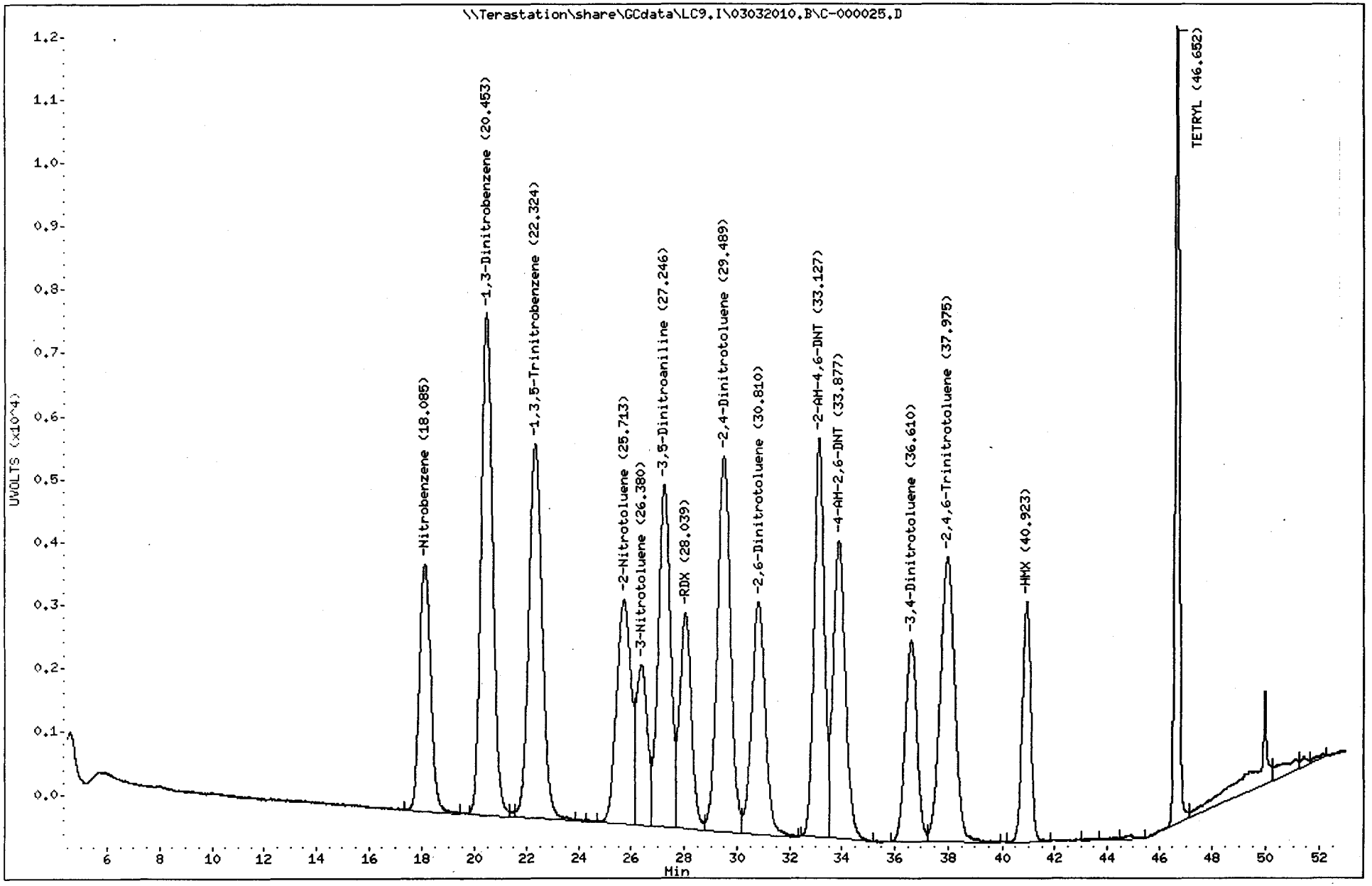
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
18.085	590851	3898	0.007	4.90		13	Nitrobenzene
20.453	1243877	7955	0.006	10.00		10	1,3-Dinitrobenzene
21.458	4329	89	0.021	0.11			
22.324	1050880	5931	0.006	7.45		9	1,3,5-Trinitrobenze
23.932	2696	32	0.012	0.04			
24.349	2608	37	0.014	0.04			
25.713	675055	3546	0.005	4.45		20	2-Nitrotoluene
26.380	384318	2535	0.007	3.18		22	3-Nitrotoluene
27.246	866436	5416	0.006	6.80		11	3,5-Dinitroaniline
28.039	521610	3408	0.007	4.28		7	RDX
29.489	1033600	5943	0.006	7.47		19	2,4-Dinitrotoluene
30.810	655463	3665	0.006	4.60		18	2,6-Dinitrotoluene
33.127	851520	6322	0.007	7.94		17	2-AM-4,6-DNT
33.877	760431	4718	0.006	5.93		16	4-AM-2,6-DNT
36.610	487767	3171	0.007	3.98	$	1	3,4-Dinitrotoluene
37.975	853298	4508	0.005	5.66		15	2,4,6-Trinitrotolue
40.923	425489	3798	0.009	4.77		4	HMX
43.555	4168	29	0.007	0.03			
44.298	4597	27	0.006	0.03			
44.859	7889	54	0.007	0.06			
46.652	678858	12674	0.019	16.06		12	TETRYL
49.965	215193	1417	0.007	1.78			
51.106	50752	160	0.003	0.20			
51.409	12082	154	0.013	0.19			
52.136	9345	45	0.005	0.05			
	11393109	79532		100.000			

Total unknown % height = 2.530

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000025.D
Date : 04-MAR-2010 18:35
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000025.D\C-000025.
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 04-MAR-2010 18:35
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 19:36 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

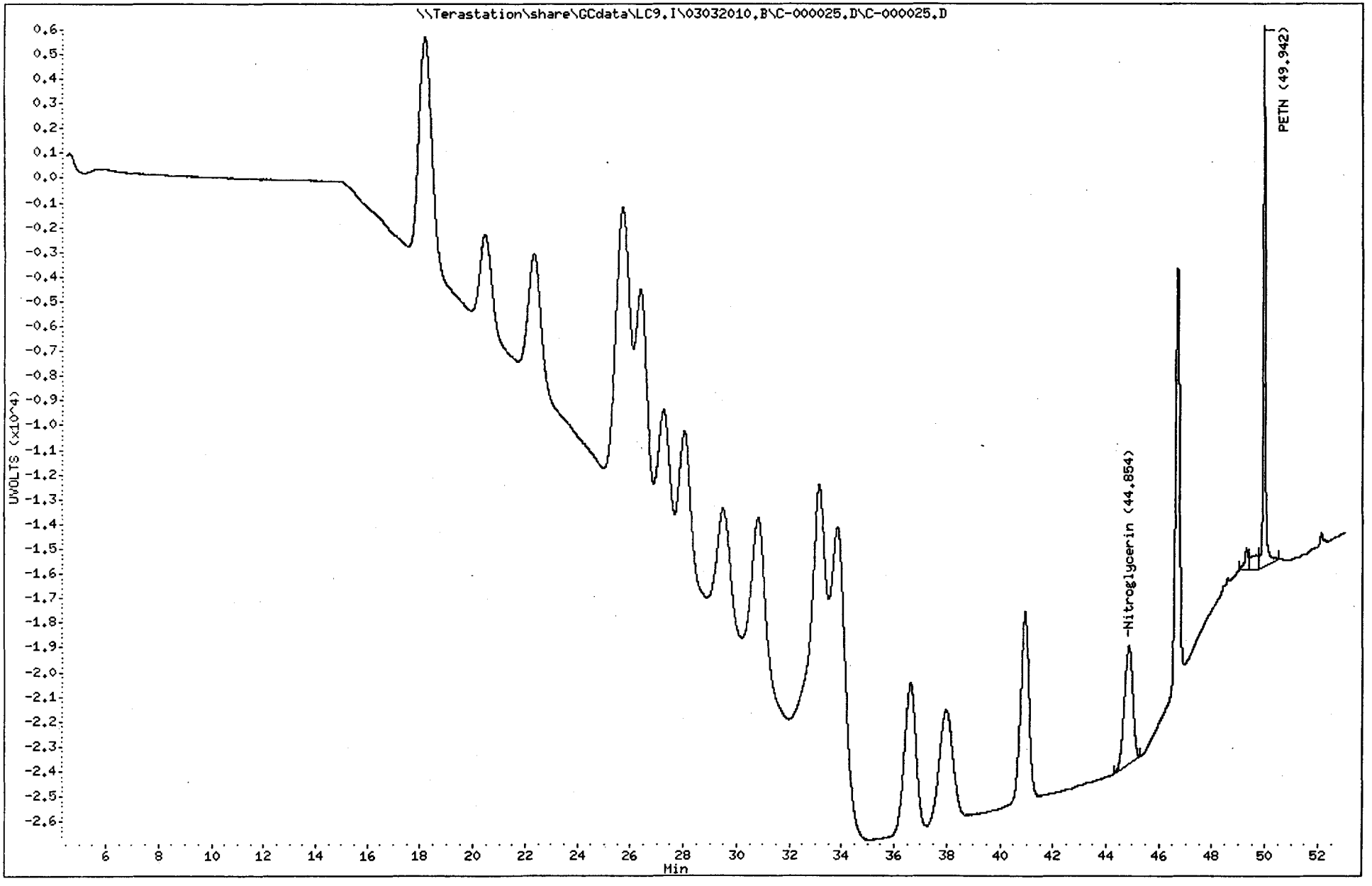
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.854	535224	4778	0.009	16.99	14 Nitroglycerin
49.270	38453	896	0.023	3.18	
49.624	60894	577	0.009	2.05	
49.942	634961	21864	0.034	77.78	23 PETN
	1269532	28115		100.000	

Total unknown % height = 5.230

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000025.D\C-000025.D
Date : 04-MAR-2010 18:35
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

C-000028.D

Chromatography Summary

Injection Date: 3/4/2010 21:52 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000028.D **Vial Num:** 49

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LVWW51DQ 0056227 A0B190524-1**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	9.99 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LVWW51DQ 0056227 A0B190524-1;0

Misc. Info: ;;;9.99;80;2;SOLIDBQSM.sub;;0;1;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.62**	**0.010**	**1990**	**512.1000<**							**0.0000**	**0.00**	**45**
HMX											12.1121	250.50	
RDX											12.0120	250.50	
Picric ACID											100.1001	1002.00	
1,3,5-Trinitrobenzene											10.0100	250.50	
1,3-Dinitrobenzene											4.2042	250.50	
TETRYL											10.0100	250.50	
Nitrobenzene											17.6176	250.50	
2,4,6-Trinitrotoluene											19.4194	250.50	
4-AM-2,6-DNT											10.0100	250.50	
2-AM-4,6-DNT	33.15	0.027	113	13.8200<							12.5125	300.60	45
2,6-Dinitrotoluene	30.96	0.146	100	21.2500<							7.3073	250.50	45
2,4-Dinitrotoluene											5.3053	250.50	
2-Nitrotoluene											13.0130	250.50	
4-Nitrotoluene											18.2182	501.00	
3-Nitrotoluene	26.40	0.019	80	24.9000<							15.5155	250.50	45
Nitroglycerin											15.0150	501.00	
PETN						50.02	0.081	10336	375.3000<		25.0250	501.00	45
3,5-Dinitroaniline	27.23	-0.019	97	14.1700	NA						8.8088	1302.60	45

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.5005**	**512.1000**	**102**	**500.5005**		**0**	**(81-127)**

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/5/2010 9:42 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000028.d
Lab Smp Id: LVWW51DQ 0056227 A0
Inj Date : 04-MAR-2010 21:52
Operator : NS Inst ID: LC9.i
Smp Info : LVWW51DQ 0056227 A0B190524-1;0
Misc Info : ;;;9.99;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 05-Mar-2010 09:24 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 49
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.990	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

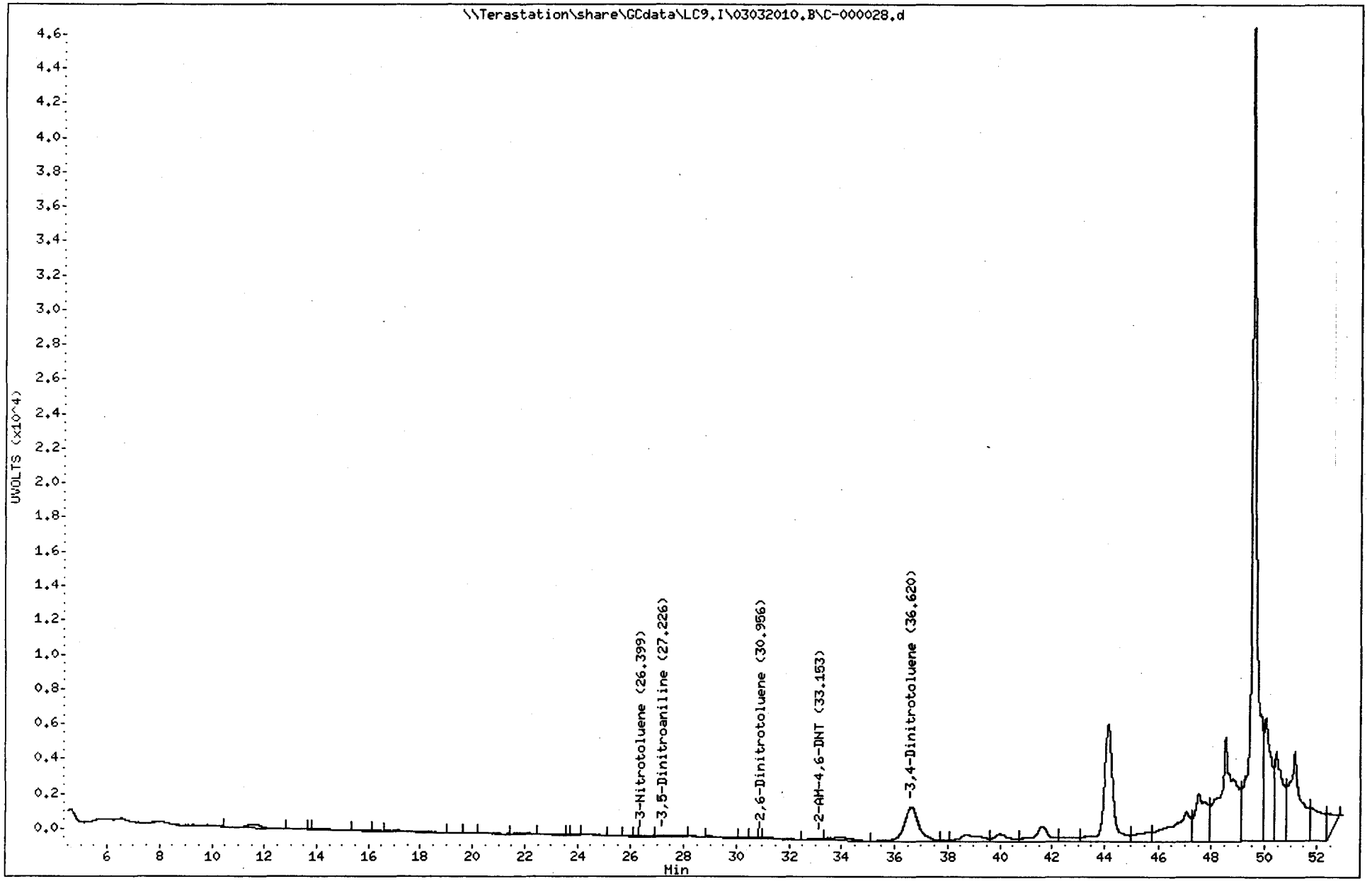
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
11.488	32302	200	0.006	0.21	
13.724	2950	66	0.022	0.07	
14.027	17813	79	0.004	0.08	
15.542	6289	45	0.007	0.04	
16.164	3894	36	0.009	0.03	
16.839	21625	56	0.003	0.06	
19.161	3181	25	0.008	0.02	
19.827	3919	37	0.009	0.04	
21.971	18447	104	0.006	0.11	
22.602	12164	37	0.003	0.04	
23.647	2820	56	0.020	0.06	
23.894	7457	76	0.010	0.08	
25.165	5708	49	0.009	0.05	
25.994	5961	66	0.011	0.07	
26.175	4128	73	0.018	0.07	
26.399	11013	80	0.007	0.08	22 3-Nitrotoluene
27.226	27979	97	0.003	0.10	11 3,5-Dinitroaniline
28.995	25533	88	0.003	0.09	
30.228	8697	78	0.009	0.08	
30.534	8170	87	0.011	0.09	
30.956	4950	100	0.020	0.10	18 2,6-Dinitrotoluene
31.072	16235	97	0.006	0.10	
33.153	14383	113	0.008	0.12	17 2-AM-4,6-DNT
33.935	54301	181	0.003	0.19	

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
36.620	387680	1990	0.005	2.17	$ 1 3,4-Dinitrotoluene
37.950	10312	99	0.010	0.10	
38.713	116323	411	0.004	0.45	
40.018	88957	427	0.005	0.46	
41.630	168027	889	0.005	0.97	
42.637	62733	266	0.004	0.29	
44.138	804006	6703	0.008	7.34	
45.590	109275	555	0.005	0.60	
47.036	438197	1715	0.004	1.87	
47.516	444962	2733	0.006	2.99	
48.533	1133632	6045	0.005	6.62	
49.551	2924712	46988	0.016	51.67	
50.023	657600	7032	0.011	7.70	
50.444	577362	5094	0.009	5.57	
51.164	823089	5108	0.006	5.59	
51.801	320861	1913	0.006	2.09	
52.395	130726	1408	0.011	1.54	
	9518371	91302		100.000	

Total unknown % height = 97.43

Data File: \\Terastation\share\GCdata\LC9,I\03032010,B\C-000028,d
Date : 04-MAR-2010 21:52
Client ID:
Sample Info: LVWW51DQ 0056227 A0B190524-1;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9,i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000028.d\C-000028.
Lab Smp Id: LVWW51DQ 0056227 A0
Inj Date : 04-MAR-2010 21:52
Operator : NS Inst ID: LC9.i
Smp Info : LVWW51DQ 0056227 A0B190524-1;0
Misc Info : ;;;9.99;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 05-Mar-2010 06:32 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 49
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

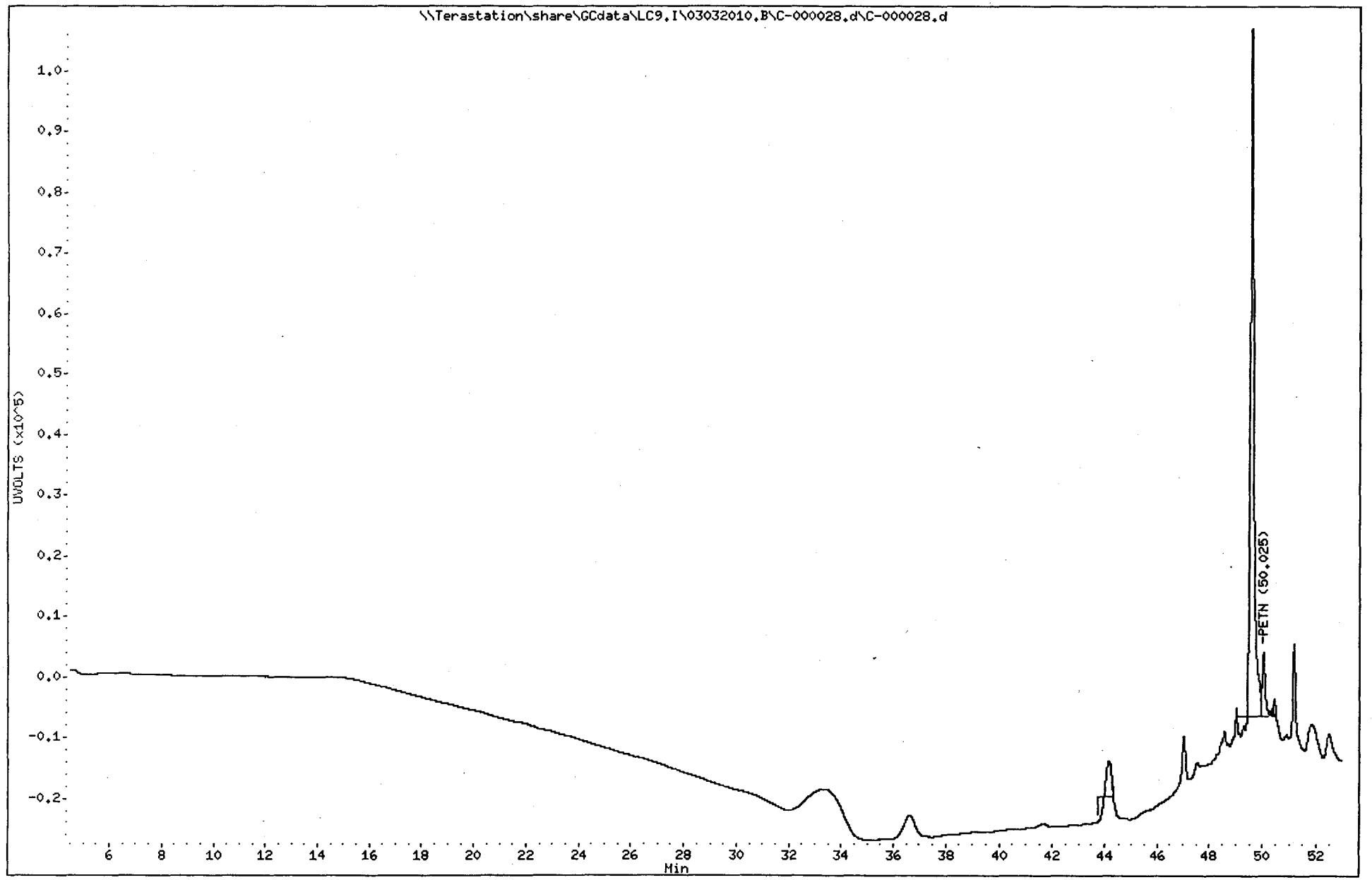
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.990	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.138	152653	5912	0.039	4.46	
49.551	4871655	113269	0.023	85.56	
50.025	456734	10336	0.023	7.80	23 PETN
50.446	62637	2892	0.046	2.18	
	5543678	132409		100.000	

Total unknown % height = 92.20

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000028.d\C-000028.d
Date : 04-MAR-2010 21:52
Client ID:
Instrument: LC9.i
Sample Info: LVWW51DQ 0056227 AOB190524-1:0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

C-000035.D

Chromatography Summary

Injection Date: 3/5/2010 5:31 Operator: NS

DataFile: LC9.I\03032010.B\C-000035.D Vial Num: 4

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : STD_05 10GCSV0072 8330 100-200ng/mL

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 End Cal Date: 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Misc. Info: ;6;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm) ✓							Zorbax Cyano(250nm-205nm) ✓								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	36.85	3204	103.0000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
HMX	41.13	3822	97.7300<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
RDX	28.25	3423	98.7600<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID				200	-100%	Fails					200	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22.43	5875	97.3500<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.58	7840	98.3700<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	46.73	13115	94.5800<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	18.18	3659	95.4400<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	38.17	4549	96.2000<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	34.12	4273	103.0000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	33.33	6266	95.7300<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	31.04	3600	96.8800<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.70	5953	98.5200<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	25.93	3296	185.7000	200	-7%	Acceptable					200	-100%	Fails		(±15)	45
4-Nitrotoluene				200	-100%	Fails					200	-100%	Fails		(±15)	
3-Nitrotoluene	26.59	2359	92.0000<	100	-8%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				100	-100%	Fails		45.03	4815	99.8500	100	0%	Acceptable		(±15)	45
PETN				100	-100%	Fails		49.94	22452	101.8000<	100	2%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.46	5437	99.2100	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				100	-100%	Fails					100	-100%	Fails		(±15)	

MR 3/5/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/5/2010 9:59 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000035.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 05-MAR-2010 05:31
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 05-Mar-2010 06:32 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

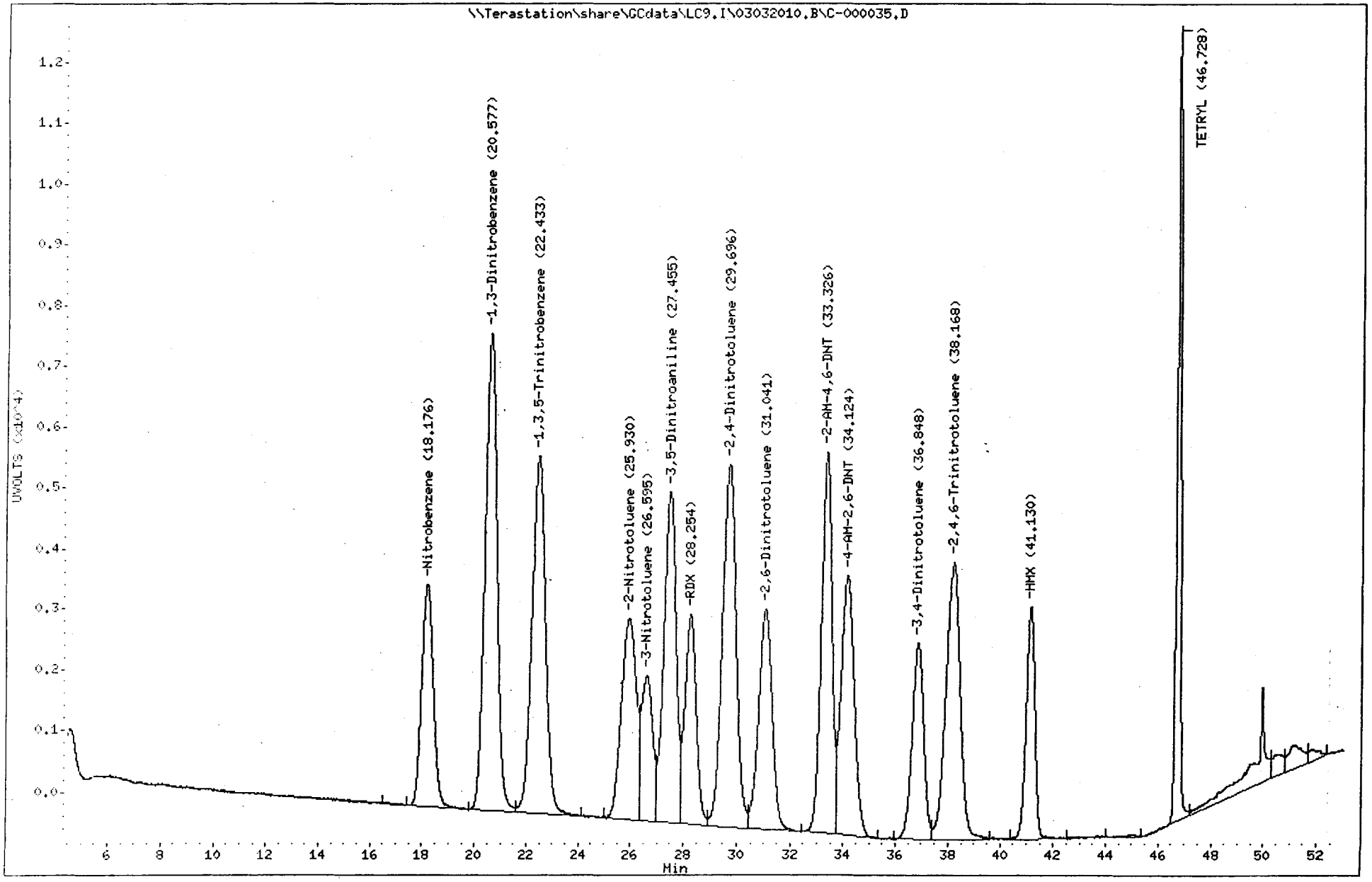
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
16.506	3097	19	0.006	0.02			
18.176	566058	3659	0.006	4.62		13	Nitrobenzene
20.577	1253642	7840	0.006	9.90		10	1,3-Dinitrobenzene
22.433	1054376	5875	0.006	7.42		9	1,3,5-Trinitrobenze
25.930	631265	3296	0.005	4.16		20	2-Nitrotoluene
26.595	353845	2359	0.007	2.98		22	3-Nitrotoluene
27.455	866225	5437	0.006	6.87		11	3,5-Dinitroaniline
28.254	515617	3423	0.007	4.32		7	RDX
29.696	1033018	5953	0.006	7.52		19	2,4-Dinitrotoluene
31.041	647024	3600	0.006	4.54		18	2,6-Dinitrotoluene
33.326	862193	6266	0.007	7.91		17	2-AM-4,6-DNT
34.124	751371	4273	0.006	5.39		16	4-AM-2,6-DNT
36.848	490735	3204	0.007	4.04	$	1	3,4-Dinitrotoluene
38.168	856028	4549	0.005	5.74		15	2,4,6-Trinitrotolue
41.130	428771	3822	0.009	4.82		4	HMX
45.037	6749	51	0.008	0.06			
46.728	671252	13115	0.020	16.68		12	TETRYL
49.966	227364	1532	0.007	1.93			
50.607	47792	331	0.007	0.41			
51.167	71015	373	0.005	0.47			
51.847	21931	164	0.007	0.20			
	11359368	79141		100.000			

Total unknown % height = 3.090

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000035.D
Date : 05-MAR-2010 05:31
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000035.D\C-000035.
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 05-MAR-2010 05:31
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 05-Mar-2010 06:32 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

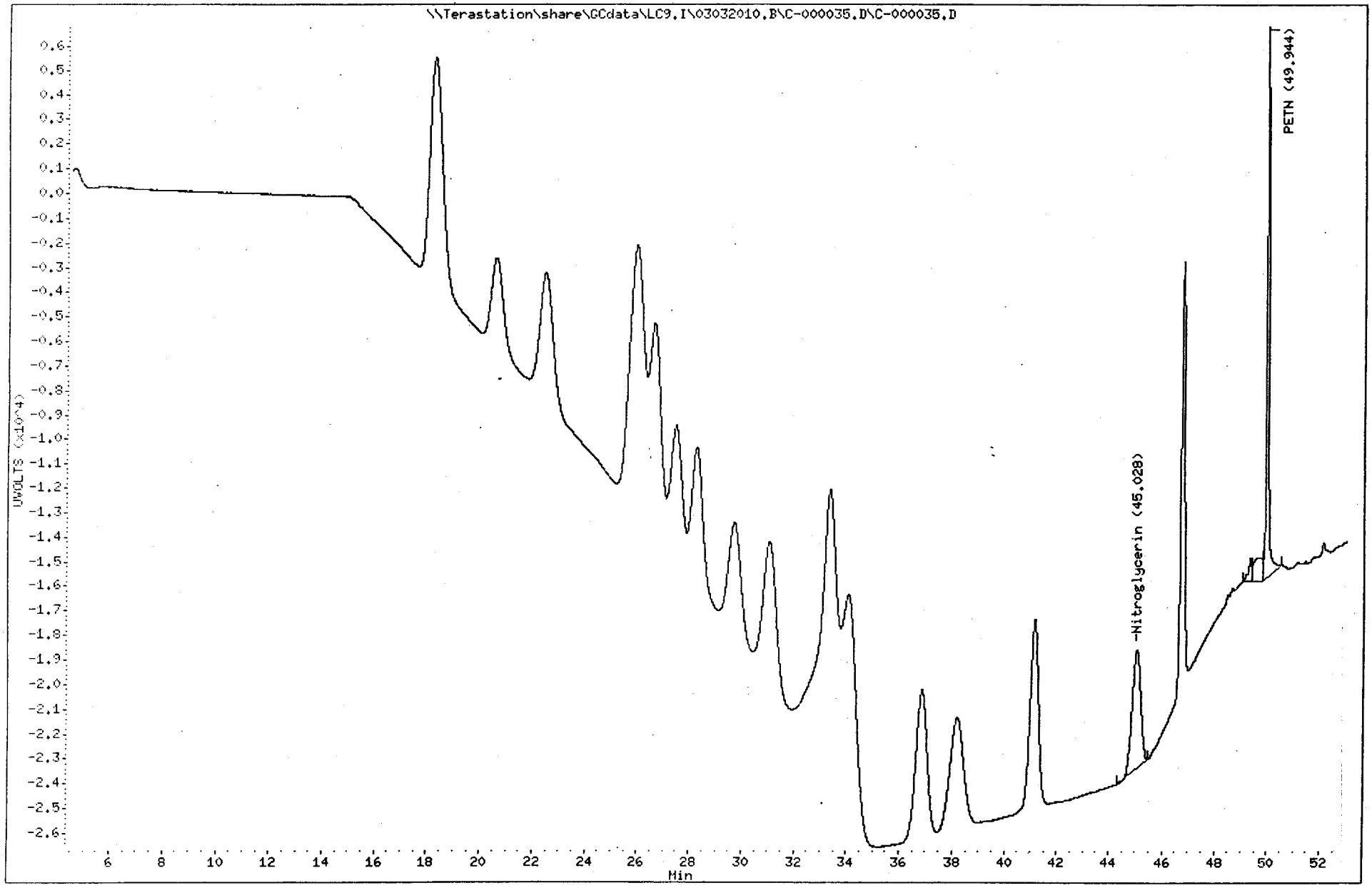
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
45.028	515346	4815	0.009	16.49	14 Nitroglycerin
49.287	44220	965	0.022	3.30	
49.629	104967	952	0.009	3.26	
49.944	668437	22452	0.034	76.95	23 PETN
	1332969	29184		100.000	

Total unknown % height = 6.560

Data File: \\Terastation\share\GCdata\LC9,I\03032010,B\C-000035,D\C-000035,D
Date : 05-MAR-2010 05:31
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

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West Sacramento

GC/HPLC ICAL Checklist

Instrument ID: LC10-C18 ICAL ID: 03012010 Method: 8330

Analytes Included in curve (with dates): All 8330, PETN, NG, PA, 3,5-DNA

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	✓	✓	
2. ICAL Runlog included.	✓	✓	
3. ICV Included and moved to after summary.	✓	✓	
4. PEM meets requirements and is included for 8081.			✓
5. Alkane Marker included for 8015 TPH.			✓
6. ICAL Raw Data included for all analytes.	✓	✓	
B. ICAL Summary			
1. All analytes meet %RSD or linear regression requirements.	✓	✓	
2. ICAL meets requirements stated in SOP.	✓	✓	
2. Any levels dropped are reviewed and appropriate.			✓
3. All analytes in ICAL are in the ICAL summary.	✓	✓	
4. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			✓
2. All peaks correctly identified.	✓	✓	
3. No analytes have saturated peaks.	✓	✓	
4. RT windows set correctly (8015 TPH).			✓
5. ICV meets requirements and is run after the ICAL.	✓	✓	
6. Standards used in ICAL are current.	✓	✓	
7. ICAL is copied to source method.	✓	✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	✓		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	✓		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

Analyst: [signature] Date: 3/2/10

Reviewer: [signature] Date: 3/2/2010

Comments:

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000010.d
Level 2: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000011.d
Level 3: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000012.d
Level 4: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000013.d
Level 5: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000014.d
Level 6: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000015.d
Level 7: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000016.d
Level 8: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000017.d

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
2 HMX	150	144	137	136	130	130		
	125	114					133	8.430
3 RDX	98.40000	96.90000	95.65000	95.78000	91.10000	91.75000		
	83.22800	69.00900					90.22713	10.874
4 EGDN	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++ <-
5 Picric ACID	+++++	+++++	107	91.68000	91.42000	85.79200		
	80.00700	70.21200					87.65517	14.101
6 1,3,5-Trinitrobenzene	170	172	165	167	160	161		
	153	138					161	6.707
7 1,3-Dinitrobenzene	171	170	162	163	156	157		
	147	129					157	8.628
8 3,5-Dinitroaniline	118	110	106	106	101	102		
	96.54200	83.80300					103	9.691
9 TETRYL	94.40000	91.20000	87.95000	88.16000	81.37000	90.93500		
	85.72000	82.69800					87.80413	5.035

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
10 Nitrobenzene	73.00000	79.70000	78.15000	76.92000	73.47000	74.08000		
	71.93800	65.00400					74.03275	6.141
11 Nitroglycerin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
12 2,4,6-Trinitrotoluene	107	99	97.05000	96.38000	89.94000	94.25500		
	92.83000	87.75400					95.55113	6.238
13 4-AM-2,6-DNT	80.80000	76.30000	71.75000	71.44000	68.60000	68.61000		
	69.61400	63.16000					71.28425	7.482
14 2-AM-4,6-DNT	93.20000	87.20000	82.40000	81.42000	78.04000	78.31500		
	78.19200	70.54100					81.16350	8.362
15 2,6-Dinitrotoluene	65.20000	58.90000	57.15000	56.30000	54.15000	54.21000		
	55.58400	51.55900					56.63163	7.244
16 2,4-Dinitrotoluene	103	96.20000	92.70000	92.60000	88.51000	88.75500		
	90.03200	83.62600					91.87788	6.204
17 2-Nitrotoluene	42.40000	43.10000	42.80000	41.98000	39.96000	39.93000		
	39.15400	36.49600					40.72750	5.560
18 4-Nitrotoluene	48.20000	53.20000	51.25000	49.94000	47.60000	48.01000		
	47.15800	44.32700					48.71063	5.581
19 3-Nitrotoluene	50.20000	50.90000	49.30000	49.40000	46.86000	46.97000		
	46.56200	43.90000					48.01150	4.862
20 PETN	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
$ 1 3,4-Dinitrotoluene	+++++	52.30000	46.40000	46.32000	47.22000	46.38000		
	50.47667	48.46000					48.22238	4.871

Report Date: 02-Mar-2010 09:16

Calibration History

Method : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Start Cal Date: 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
01-MAR-2010 17:59	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d
Cal Level: 2 , Cal Amount: 10.00000		
01-MAR-2010 18:47	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d
Cal Level: 3 , Cal Amount: 20.00000		
01-MAR-2010 19:35	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d
Cal Level: 4 , Cal Amount: 50.00000		
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d
Cal Level: 5 , Cal Amount: 100.00000		
01-MAR-2010 21:12	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d
Cal Level: 6 , Cal Amount: 200.00000		
01-MAR-2010 22:01	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d
Cal Level: 7 , Cal Amount: 500.00000		
01-MAR-2010 22:49	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d
Cal Level: 8 , Cal Amount: 1000.00000		

01-MAR-2010 23:38	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d

Continuing Calibration
Ccal Level Mode: BY SAMPLE

02-MAR-2010 02:03	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d
02-MAR-2010 01:14	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d
01-MAR-2010 21:12	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000010.d\A-00
Level 2: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000011.d\A-00
Level 3: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000012.d\A-00
Level 4: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000013.d\A-00
Level 5: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000014.d\A-00
Level 6: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000015.d\A-00
Level 7: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000016.d\A-00
Level 8: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000017.d\A-00

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
2 HMX	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
3 RDX	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
4 EGDN	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
5 Picric ACID	+++++	+++++	154	135	134	127			
	118	104					129	13.252	
6 1,3,5-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
7 1,3-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
8 3,5-Dinitroaniline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
9 TETRYL	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
10 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
11 Nitroglycerin	+++++	+++++	63.55000	63.44000	62.94000	63.83500		
	63.78800	58.64100					62.69900	3.212
12 2,4,6-Trinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
13 4-AM-2,6-DNT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
14 2-AM-4,6-DNT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
15 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
16 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
17 2-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
18 4-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
19 3-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
20 PETN	+++++ ✓	+++++ ✓	38.05000	30.62000	30.28000	30.55500	✓	✓
	30.73000	29.44300					31.61300	10.083

3/2/2010 MEJ

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INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
$ 1 3,4-Dinitrotoluene	+++++	114	97.05000	94.88000	96.43000	95.07500		
	95.19000	90.92400					97.62129	7.577

Report Date: 02-Mar-2010 09:17

Calibration History

Method : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.M
Start Cal Date: 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
01-MAR-2010 17:59	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d\A-000010.d
Cal Level: 2 , Cal Amount: 10.00000		
01-MAR-2010 18:47	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011.d
Cal Level: 3 , Cal Amount: 20.00000		
01-MAR-2010 19:35	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012.d
Cal Level: 4 , Cal Amount: 50.00000		
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d
Cal Level: 5 , Cal Amount: 100.00000		
01-MAR-2010 21:12	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014.d
Cal Level: 6 , Cal Amount: 200.00000		
01-MAR-2010 22:01	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015.d
Cal Level: 7 , Cal Amount: 500.00000		
01-MAR-2010 22:49	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d\A-000016.d
Cal Level: 8 , Cal Amount: 1000.00000		

01-MAR-2010 23:38	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017.d

Continuing Calibration
Ccal Level Mode: BY SAMPLE

02-MAR-2010 02:03	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020.d
02-MAR-2010 01:14	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019.d
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d

Calibration Standard Level Reference Sheet

8330, 8330A, 8330B

	Concentration (ppb)							
Analyte	Level 1	2	3	4	5	6	7	8
3,4-Dinitrotoluene (surr)		10	20	50	100	200	300	500
HMX	5	10	20	50	100	200	500	1000
MNX	5	10	20	50	100	200	500	1000
DNX	5	10	20	50	100	200	500	1000
TNX	5	10	20	50	100	200	500	1000
RDX	5	10	20	50	100	200	500	1000
1,3,5-Trinitrobenzene	5	10	20	50	100	200	500	1000
1,3-Dinitrotoluene	5	10	20	50	100	200	500	1000
3.5-Dinitroaniline	5	10	20	50	100	200	500	1000
TETRYL	5	10	20	50	100	200	500	1000
Nitrobenzene	5	10	20	50	100	200	500	1000
2,4,6-Trinitrotoluene	5	10	20	50	100	200	500	1000
4-Amino-2,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2-Amino-4,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2,6-Dinitrotoluene	5	10	20	50	100	200	500	1000
2,4-Dinitrotoluene	5	10	20	50	100	200	500	1000
2-Nitrotoluene	5	10	20	50	100	200	500	1000
4-Nitrotoluene	5	10	20	50	100	200	500	1000
3-Nitrotoluene	5	10	20	50	100	200	500	1000
Picric Acid			50	100	200	500	1000	2000
Nitroglycerin			20	50	100	200	500	1000
PETN			20	50	100	200	500	1000
EGDN			20	50	100	200	500	1000

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC10 Batch ID: 03012010
Method : Method 8330 Test : SOP SAC-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
01-MAR-2010	10:34	NS	8330 PRIMER	A-000001.	0 g	0 mL	1	
01-MAR-2010	11:23	NS	8330 PRIMER	A-000002.	0 g	0 mL	1	
01-MAR-2010	12:11	NS	8330 PRIMER	A-000003.	0 g	0 mL	1	
01-MAR-2010	12:59	NS	8330 PRIMER	A-000004.	0 g	0 mL	1	
01-MAR-2010	13:48	NS	8330 PRIMER	A-000005.	0 g	0 mL	1	
01-MAR-2010	14:36	NS	8330 PRIMER	A-000006.	0 g	0 mL	1	
01-MAR-2010	15:25	NS	8330 PRIMER	A-000007.	0 g	0 mL	1	
01-MAR-2010	16:13	NS	8330 PRIMER	A-000008.	0 g	0 mL	1	
01-MAR-2010	17:10	NS	BLANK	A-000009.	0 g	0 mL	1	
01-MAR-2010	17:59	NS	CS_01 10GCSV0046 8330 ICAL L1	A-000010.	0 g	0 mL	1	
01-MAR-2010	18:47	NS	CS_02 10GCSV0047 8330 ICAL L2	A-000011.	0 g	0 mL	1	
01-MAR-2010	19:35	NS	CS_03 10GCSV0048 8330 ICAL L3	A-000012.	0 g	0 mL	1	
01-MAR-2010	20:24	NS	CS_04 10GCSV0049 8330 ICAL L4	A-000013.	0 g	0 mL	1	
01-MAR-2010	21:12	NS	CS_05 10GCSV0072 8330 ICAL L5	A-000014.	0 g	0 mL	1	
01-MAR-2010	22:01	NS	CS_06 09GCSV0482 8330 ICAL L6	A-000015.	0 g	0 mL	1	
01-MAR-2010	22:49	NS	CS_07 10GCSV0050 8330 ICAL L7	A-000016.	0 g	0 mL	1	
01-MAR-2010	23:38	NS	CS_8 10GCSV0051 8330 ICAL L8 1	A-000017.	0 g	0 mL	1	
02-MAR-2010	00:26	NS	BLANK	A-000018.	0 g	0 mL	1	
02-MAR-2010	01:14	NS	ICV 10GCSV0058 8330 200ng/mL	A-000019.	0 g	0 mL	1	
02-MAR-2010	02:03	NS	MRL 10GCSV0074 8330 5-50ng/mL	A-000020.	0 g	0 mL	1	

TestAmerica West Sacramento

A-000019.D

Chromatography Summary

Method 8330 Target Analyte Results

Sample : **ICV 10GCSV0058 8330 200ng/mL**

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: ICV 10GCSV0058 8330 200ng/mL;2

Misc. Info: ;6; ; ; ;3;CAL.sub; ;0;1

Injection Date: 3/2/2010 1:14 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000019.D **Vial Num:** 69

Instrument ID: LC10

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene				200	-100%	Fails	Not SPIKED				200	-100%	Fails		(±15)	
HMX	5.46	27851	209.1000<	200	5%	Acceptable					200	-100%	Fails		(±15)	45
RDX	8.04	18379	203.7000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
Picric ACID	9.24	41098	468.8000	500	-6%	Acceptable		9.24	60778	472.3000<	500	-6%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.62	32359	201.1000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.66	31650	201.6000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
TETRYL	15.16	18076	205.9000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
Nitrobenzene	15.52	15283	206.4000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.41	19055	199.4000<	200	0%	Acceptable					200	-100%	Fails		(±15)	45
4-AM-2,6-DNT	18.18	14153	198.5000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.31	16434	202.5000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	21.05	11129	196.5000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.82	18425	200.5000<	200	0%	Acceptable					200	-100%	Fails		(±15)	45
2-Nitrotoluene	25.40	8259	202.8000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
4-Nitrotoluene	27.41	9936	204.0000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
3-Nitrotoluene	29.54	9806	204.2000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
Nitroglycerin				200	-100%	Fails		16.44	13921	222.0000<	200	11%	Acceptable		(±15)	45
PETN				200	-100%	Fails		33.13	6995	221.3000<	200	11%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.56	20727	201.3000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
EGDN				200	-100%	Fails	NA				200	-100%	Fails		(±15)	

MR 3/2/10

ICV passes ± 15%

MR 3/2/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:15 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d
Lab Smp Id: ICV 10GCSV0058 8330
Inj Date : 02-MAR-2010 01:14
Operator : NS Inst ID: LC10.i
Smp Info : ICV 10GCSV0058 8330 200ng/mL;2
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:14 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
4.897	101	40	0.394	0.01		
5.057	1419	213	0.150	0.06		
5.457	180264	27851	0.155	8.89	2	HMX
8.044	192820	18379	0.095	5.86	3	RDX
8.740	1385	166	0.120	0.05		
9.237	570439	41098	0.072	13.21	5	Picric ACID
10.617	413294	32359	0.078	10.33	6	1,3,5-Trinitrobenze
13.664	499482	31650	0.063	10.10	7	1,3-Dinitrobenzene
14.560	345098	20727	0.060	6.61	8	3,5-Dinitroaniline
15.164	289510	18076	0.062	5.77	9	TETRYL
15.520	268810	15283	0.057	4.87	10	Nitrobenzene
16.450	2076	138	0.066	0.04		
17.407	342027	19055	0.056	6.08	12	2,4,6-Trinitrotolue
18.180	275681	14153	0.051	4.51	13	4-AM-2,6-DNT
19.307	347563	16434	0.047	5.24	14	2-AM-4,6-DNT
21.047	227359	11129	0.049	3.55	15	2,6-Dinitrotoluene
21.824	403652	18425	0.046	5.88	16	2,4-Dinitrotoluene
25.404	217983	8259	0.038	2.63	17	2-Nitrotoluene
27.407	279772	9936	0.036	3.17	18	4-Nitrotoluene
29.540	298361	9806	0.033	3.13	19	3-Nitrotoluene
33.177	525	49	0.093	0.01		
	5157621	313226		100.000		

Total unknown % height = 0.1700

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d

Date : 02-MAR-2010 01:14

Client ID:

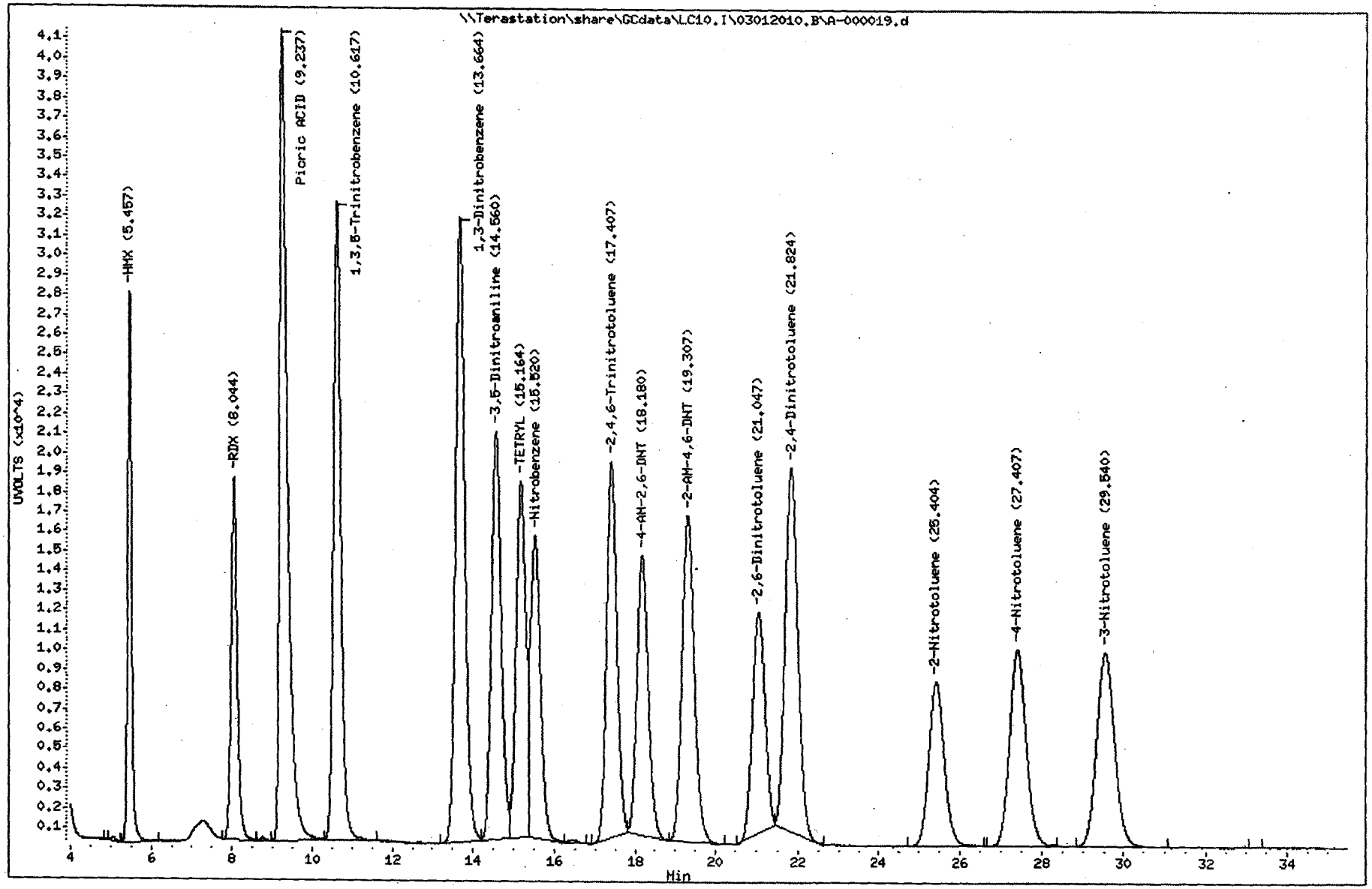
Sample Info: ICV 10GCSV0058 8330 200ng/mL;2

Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i

Operator: NS

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019
Lab Smp Id: ICV 10GCSV0058 8330
Inj Date : 02-MAR-2010 01:14
Operator : NS Inst ID: LC10.i
Smp Info : ICV 10GCSV0058 8330 200ng/mL;2
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:14 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.237	849293	60778	0.072	19.26	5 Picric ACID
10.614	7363	517	0.070	0.16	
13.664	258452	16422	0.064	5.18	
14.560	363697	21789	0.060	6.87	
15.167	388762	24491	0.063	7.72	
15.520	427771	23907	0.056	7.54	
16.444	238096	13921	0.058	4.39	11 Nitroglycerin
17.407	376128	20557	0.055	6.48	
18.177	424782	21215	0.050	6.69	
19.307	356880	16998	0.048	5.36	
21.047	440087	20006	0.045	6.31	
21.824	364079	15487	0.043	4.88	
25.407	516355	19787	0.038	6.24	
27.410	405262	14502	0.036	4.57	
29.537	592682	19506	0.033	6.15	
33.127	252854	6995	0.028	2.20	20 PETN
	6262544	316878		100.000	

Total unknown % height = 74.15

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019.d

Date : 02-MAR-2010 01:14

Client ID:

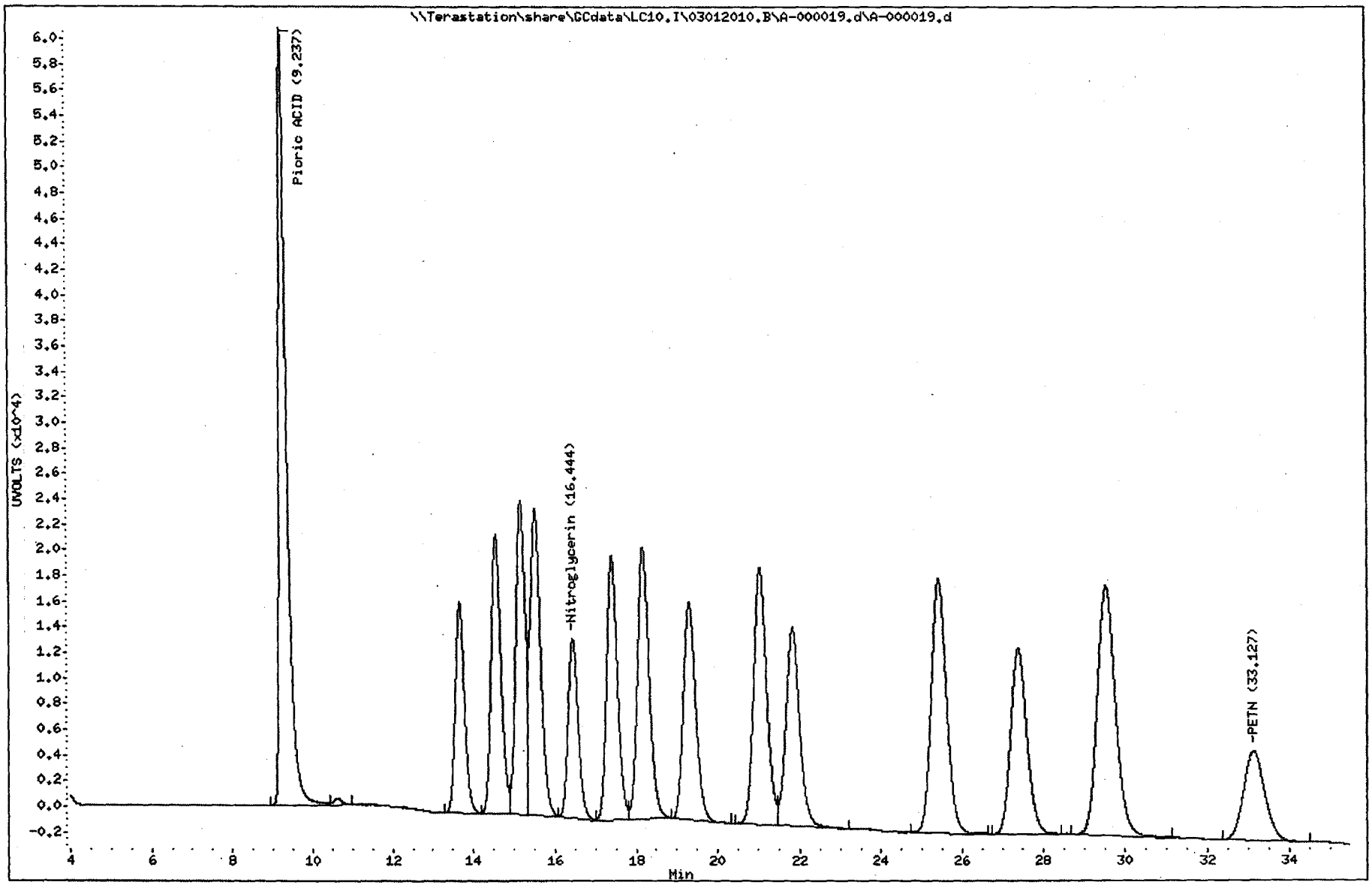
Instrument: LC10.i

Sample Info: ICV 10GCSV0058 8330 200ng/mL:2

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000020.D

Chromatography Summary

Method 8330 Target Analyte Results

Injection Date: 3/2/2010 2:03 **Operator:** NS
DataFile: LC10.I\03012010.B\A-000020.D **Vial Num:** 70
Instrument ID: LC10

Sample : **MRL 10GCSV0074 8330 5-50ng/mL**

Method File: LC10.I\03012010.B\8330AB.M
Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**
Samp. Info: MRL 10GCSV0074 8330 5-50ng/mL;2
Misc. Info: ;9; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	18.73	957	19.8400<	20	-1%	Acceptable		18.73	1737	17.7900	20	-11%	Acceptable		(±15)	
HMX	5.45	699	5.2470<	5	5%	Acceptable					5	-100%	Fails		(±15)	45
RDX	8.02	409	4.5330<	5	-9%	Acceptable					5	-100%	Fails		(±15)	45
Picric ACID	9.30	4130	47.1200	50	-6%	Acceptable		9.30	5993	46.5700<	50	-7%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.60	787	4.8920<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.65	754	4.8020<	5	-4%	Acceptable					5	-100%	Fails		(±15)	45
TETRYL	15.15	436	4.9660<	5	-1%	Acceptable					5	-100%	Fails		(±15)	45
Nitrobenzene	15.46	384	5.1870<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.35	476	4.9820<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
4-AM-2,6-DNT	18.16	356	4.9940<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.25	407	5.0140<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	21.02	271	4.7850<	5	-4%	Acceptable					5	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.80	452	4.9200<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
2-Nitrotoluene	25.36	219	5.3770<	5	8%	Acceptable					5	-100%	Fails		(±15)	45
4-Nitrotoluene	27.34	250	5.1320<	5	3%	Acceptable					5	-100%	Fails		(±15)	45
3-Nitrotoluene	29.44	249	5.1860<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
Nitroglycerin				20	-100%	Fails		16.41	1265	20.1800<	20	1%	Acceptable		(±15)	45
PETN				20	-100%	Fails		33.09	682	21.5700<	20	8%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.52	504	4.8940<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
EGDN				20	-100%	Fails					20	-100%	Fails		(±15)	

M 3/2/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d
Lab Smp Id: MRL 10GCSV0074 8330
Inj Date : 02-MAR-2010 02:03
Operator : NS Inst ID: LC10.i
Smp Info : MRL 10GCSV0074 8330 5-50ng/mL;2
Misc Info : ;9; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:15 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 70 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

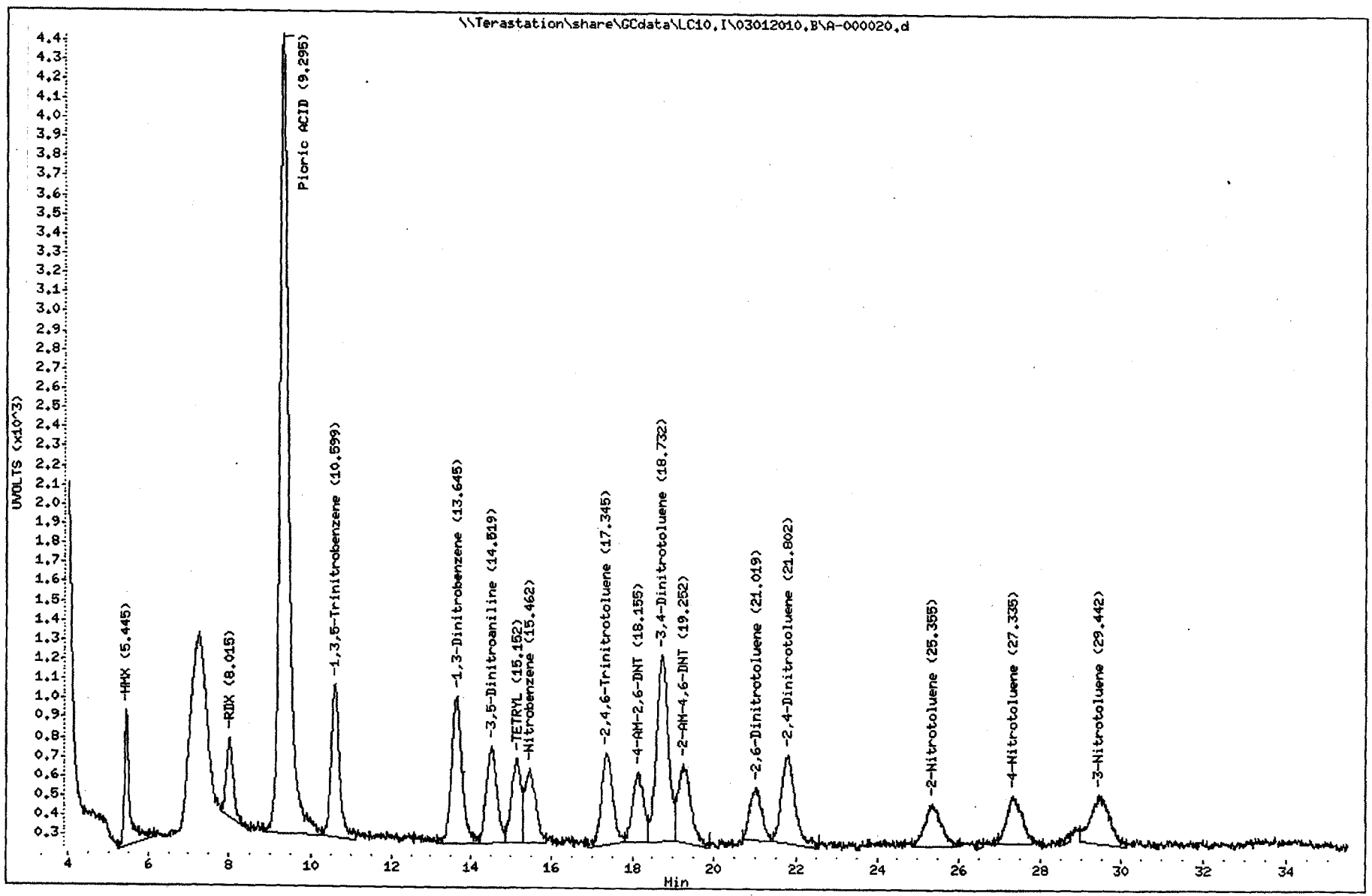
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.445	6713	699	0.104	5.88		2 HMX
8.015	4795	409	0.085	3.44		3 RDX
9.295	64014	4130	0.065	34.88		5 Picric ACID
10.599	11499	787	0.068	6.62		6 1,3,5-Trinitrobenze
13.645	13919	754	0.054	6.35		7 1,3-Dinitrobenzene
14.519	9427	504	0.053	4.24		8 3,5-Dinitroaniline
15.152	7127	436	0.061	3.67		9 TETRYL
15.462	6871	384	0.056	3.23		10 Nitrobenzene
17.345	9391	476	0.051	4.00		12 2,4,6-Trinitrotolue
18.155	6614	356	0.054	2.99		13 4-AM-2,6-DNT
18.732	19615	957	0.049	8.06	$	1 3,4-Dinitrotoluene
19.252	8993	407	0.045	3.42		14 2-AM-4,6-DNT
21.019	5412	271	0.050	2.28		15 2,6-Dinitrotoluene
21.802	10692	452	0.042	3.80		16 2,4-Dinitrotoluene
25.355	6266	219	0.035	1.84		17 2-Nitrotoluene
26.492	205	45	0.220	0.37		
26.945	125	38	0.304	0.32		
27.335	6353	250	0.039	2.10		18 4-Nitrotoluene
28.685	360	50	0.139	0.42		
29.442	8160	249	0.031	2.09		19 3-Nitrotoluene
	206549	11873		100.000		

Total unknown % height = 1.110

Data File: \\Terastation\share\GCdata\LC10,I\03012010,B\A-000020.d
Date : 02-MAR-2010 02:03
Client ID:
Sample Info: MRL 10GCSV0074 8330 5-50ng/mL;2

Instrument: LC10,i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020
Lab Smp Id: MRL 10GCSV0074 8330
Inj Date : 02-MAR-2010 02:03
Operator : NS Inst ID: LC10.i
Smp Info : MRL 10GCSV0074 8330 5-50ng/mL;2
Misc Info : ;9; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:15 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 70 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.295	88667	5993	0.068	37.36		5 Picric ACID
13.599	7435	396	0.053	2.46		
14.522	11000	559	0.051	3.47		
15.135	11345	643	0.057	3.99		
15.462	14564	648	0.044	4.02		
16.409	22586	1265	0.056	7.86		11 Nitroglycerin
17.369	9305	496	0.053	3.08		
18.152	8484	478	0.056	2.97		
18.725	35776	1737	0.049	10.80	$	1 3,4-Dinitrotoluene
20.985	11046	489	0.044	3.04		
21.815	11755	405	0.034	2.51		
23.589	2146	82	0.038	0.50		
25.362	14657	519	0.035	3.22		
26.512	759	62	0.082	0.38		
27.339	9306	345	0.037	2.14		
28.929	54402	1174	0.022	7.30		
30.669	570	48	0.084	0.29		
31.932	681	60	0.088	0.37		
33.092	24525	682	0.028	4.24		20 PETN
	339007	16081		100.000		

Total unknown % height = 39.74

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020.d

Date : 02-MAR-2010 02:03

Client ID:

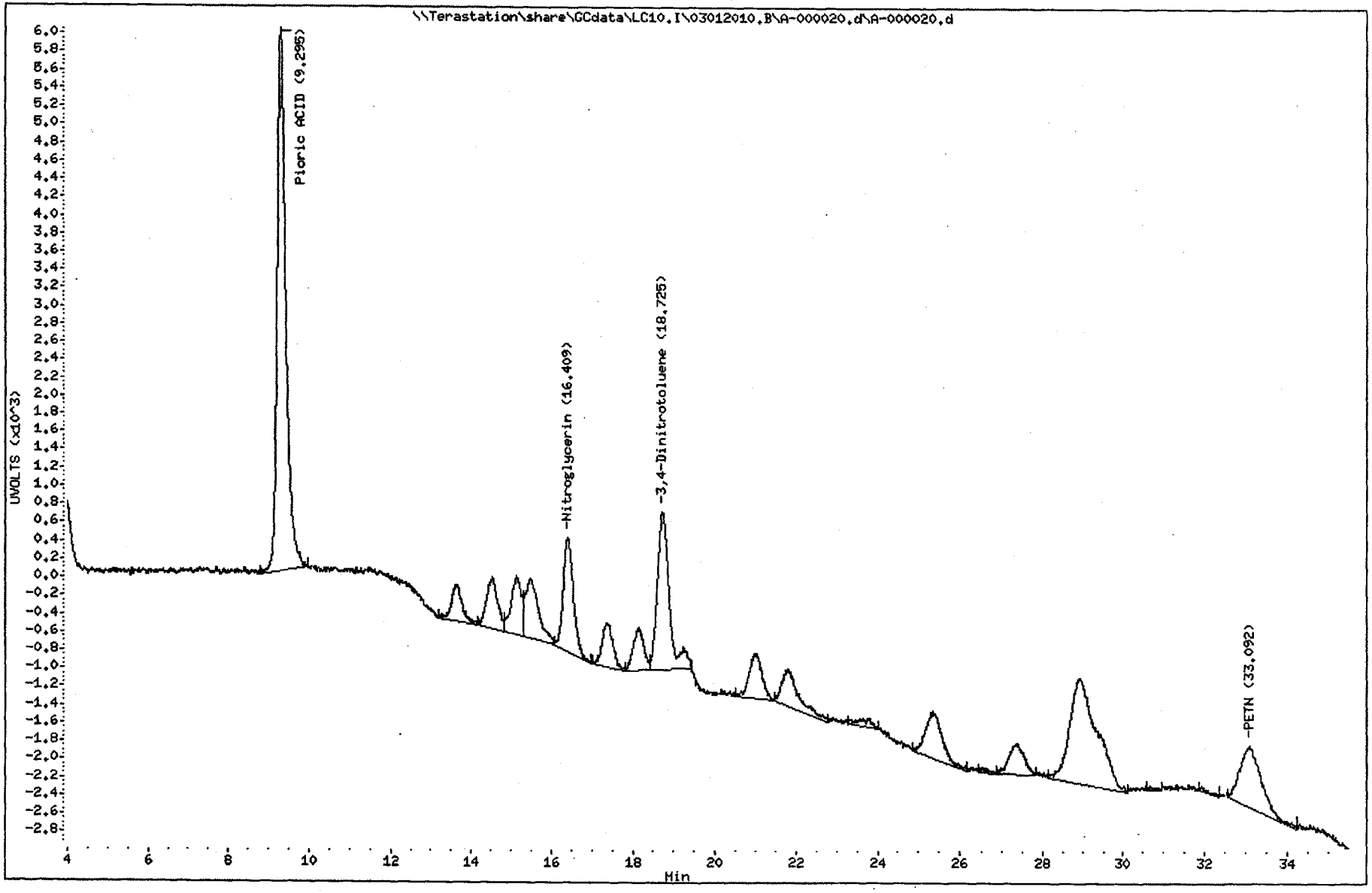
Instrument: LC10.i

Sample Info: MRL 10GCSV0074 8330 5-50ng/mL;2

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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A-000010.D

Chromatography Summary

Injection Date: 3/1/2010 17:59 Operator: NS

DataFile: LC10.I\03012010.B\A-000010.D Vial Num: 61

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_01 10GCSV0046 8330 ICAL L1 5ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 End Cal Date: 3/1/2010 17:59

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1

Misc. Info: ;1; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene			5		0			5		0
HMX	5.46	751	5		150.2 ✓			5		0
RDX	8.05	492	5		98.4			5		0
Picric ACID	9.22	27	10		2.7			10		0
1,3,5-Trinitrobenzene	10.62	848	5		169.6			5		0
1,3-Dinitrobenzene	13.69	854	5		170.8			5		0
TETRYL	15.18	472	5		94.4			5		0
Nitrobenzene	15.54	365	5		73			5		0
2,4,6-Trinitrotoluene	17.42	535	5		107			5		0
4-AM-2,6-DNT	18.21	404	5		80.8			5		0
2-AM-4,6-DNT	19.33	466	5		93.2			5		0
2,6-Dinitrotoluene	21.04	326	5		65.2			5		0
2,4-Dinitrotoluene	21.87	513	5		102.6			5		0
2-Nitrotoluene	25.50	212	5		42.4			5		0
4-Nitrotoluene	27.50	241	5		48.2			5		0
3-Nitrotoluene	29.57	251	5		50.2			5		0
Nitroglycerin			5		0			5		0
PETN			5		0	33.08	68	5		13.6
3,5-Dinitroaniline	14.57	588	5		117.6			5		0
EGDN			5		0			5		0

Notes: M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d
Lab Smp Id: CS_01 10GCSV0046 83
Inj Date : 01-MAR-2010 17:59
Operator : NS Inst ID: LC10.i
Smp Info : CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1
Misc Info : ;1; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:03 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 17:59 Cal File: A-000010.d
Als bottle: 61 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.456	5457	751	0.138	9.92	2 HMX
8.053	5137	492	0.096	6.49	3 RDX
8.996	140	39	0.279	0.51	
9.223	180	27	0.150	0.35	5 Picric ACID
9.960	937	58	0.062	0.76	
10.623	10912	848	0.078	11.20	6 1,3,5-Trinitrobenze
12.533	190	36	0.190	0.47	
13.690	14125	854	0.060	11.38	7 1,3-Dinitrobenzene
14.566	10139	588	0.058	7.76	8 3,5-Dinitroaniline
15.180	7903	472	0.060	6.23	9 TETRYL
15.540	6816	365	0.054	4.82	10 Nitrobenzene
17.423	10563	535	0.051	7.06	12 2,4,6-Trinitrotolue
18.206	8964	404	0.045	5.33	13 4-AM-2,6-DNT
19.326	11396	466	0.041	6.15	14 2-AM-4,6-DNT
21.036	7610	326	0.043	4.30	15 2,6-Dinitrotoluene
21.870	13045	513	0.039	6.77	16 2,4-Dinitrotoluene
24.976	228	44	0.193	0.58	
25.503	5737	212	0.037	2.80	17 2-Nitrotoluene
27.503	6734	241	0.036	3.18	18 4-Nitrotoluene
29.573	7409	251	0.034	3.31	19 3-Nitrotoluene
33.523	183	48	0.262	0.63	
	133806	7570		100.000	

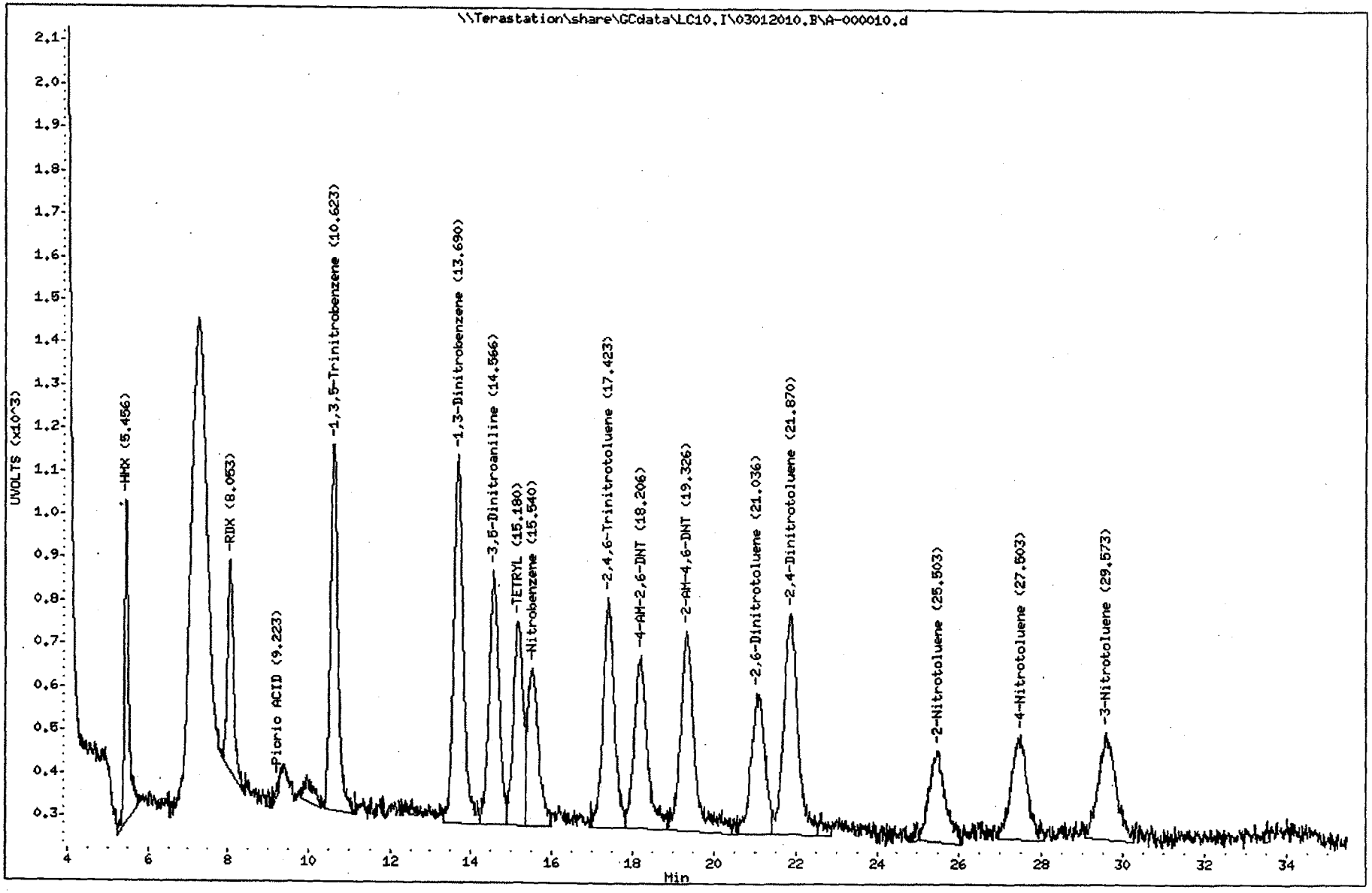
Total unknown % height = 2.950

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d
Date : 01-MAR-2010 17:59
Client ID:
Sample Info: CS_01 10GCSV0046 8330 ICAL L1 5ng/mL:1

Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d\A-000010
Lab Smp Id: CS_01 10GCSV0046 83
Inj Date : 01-MAR-2010 17:59
Operator : NS Inst ID: LC10.i
Smp Info : CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1
Misc Info : ;1; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:03 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 17:59 Cal File: A-000010.d
Als bottle: 61 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
13.670	7343	439	0.060	6.64	
14.560	9544	585	0.061	8.85	
15.183	10124	632	0.062	9.65	
15.533	12585	614	0.049	9.29	
17.423	10853	577	0.053	8.73	
18.203	11799	569	0.048	8.60	
19.333	8847	450	0.051	6.80	
20.086	419	38	0.091	0.57	
20.406	889	65	0.073	0.98	
20.700	742	93	0.125	1.40	
21.033	12222	550	0.045	8.32	
21.863	11441	405	0.035	6.12	
24.806	197	42	0.213	0.63	
25.456	13632	509	0.037	7.70	
26.550	6374	256	0.040	3.87	
27.426	5888	268	0.046	4.05	
28.156	1132	57	0.050	0.86	
29.536	8569	331	0.039	5.00	
31.440	1543	61	0.040	0.92	
33.083	1197	68	0.057	1.02	20 PETN
	135338	6609		100.000	

Total unknown % height = 98.98

TestAmerica West Sacramento

A-000011.D

Chromatography Summary

Injection Date: 3/1/2010 18:47 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000011.D **Vial Num:** 62

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_02 10GCSV0047 8330 ICAL L2 10ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1

Misc. Info: ;2; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.79	523	10		52.3	18.80	1138	10		113.8
HMX	5.46	1440	10		144 ✓			10		0
RDX	8.05	969	10		96.9			10		0
Picric ACID	9.33	1858	20		92.9	9.33	2684	20		134.2
1,3,5-Trinitrobenzene	10.63	1716	10		171.6			10		0
1,3-Dinitrobenzene	13.68	1704	10		170.4			10		0
TETRYL	15.18	912	10		91.2			10		0
Nitrobenzene	15.53	797	10		79.7			10		0
2,4,6-Trinitrotoluene	17.42	992	10		99.2			10		0
4-AM-2,6-DNT	18.21	763	10		76.3			10		0
2-AM-4,6-DNT	19.33	872	10		87.2			10		0
2,6-Dinitrotoluene	21.05	589	10		58.9			10		0
2,4-Dinitrotoluene	21.86	962	10		96.2			10		0
2-Nitrotoluene	25.44	431	10		43.1			10		0
4-Nitrotoluene	27.43	532	10		53.2			10		0
3-Nitrotoluene	29.57	509	10		50.9			10		0
Nitroglycerin			10		0	16.46	661	10		66.1
PETN			10		0	33.25	432	10		43.2
3,5-Dinitroaniline	14.56	1099	10		109.9			10		0
EGDN			10		0			10		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:13 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d
Lab Smp Id: CS_02 10GCSV0047 83
Inj Date : 01-MAR-2010 18:47
Operator : NS Inst ID: LC10.i
Smp Info : CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1
Misc Info : ;2; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 18:47 Cal File: A-000011.d
Als bottle: 62 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
4.944	608	59	0.097	0.35			
5.457	10495	1440	0.137	8.56		2	HMX
8.050	10070	969	0.096	5.76		3	RDX
9.327	25790	1858	0.072	11.15		5	Picric ACID
10.630	21523	1716	0.080	10.21		6	1,3,5-Trinitrobenze
13.677	26558	1704	0.064	10.13		7	1,3-Dinitrobenzene
14.564	18348	1099	0.060	6.53		8	3,5-Dinitroaniline
15.177	14506	912	0.063	5.42		9	TETRYL
15.530	13691	797	0.058	4.74		10	Nitrobenzene
17.417	18239	992	0.054	5.90		12	2,4,6-Trinitrotolue
18.207	14143	763	0.054	4.53		13	4-AM-2,6-DNT
18.794	9834	523	0.053	3.11	$	1	3,4-Dinitrotoluene
19.330	18370	872	0.047	5.18		14	2-AM-4,6-DNT
21.054	12247	589	0.048	3.50		15	2,6-Dinitrotoluene
21.857	20496	962	0.047	5.72		16	2,4-Dinitrotoluene
25.440	11741	431	0.037	2.56		17	2-Nitrotoluene
26.990	214	34	0.159	0.20			
27.427	14666	532	0.036	3.16		18	4-Nitrotoluene
28.664	239	46	0.192	0.27			
29.574	15884	509	0.032	3.02		19	3-Nitrotoluene
	277664	16807		100.000			

Total unknown % height = 0.8200

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d

Date : 01-MAR-2010 18:47

Client ID:

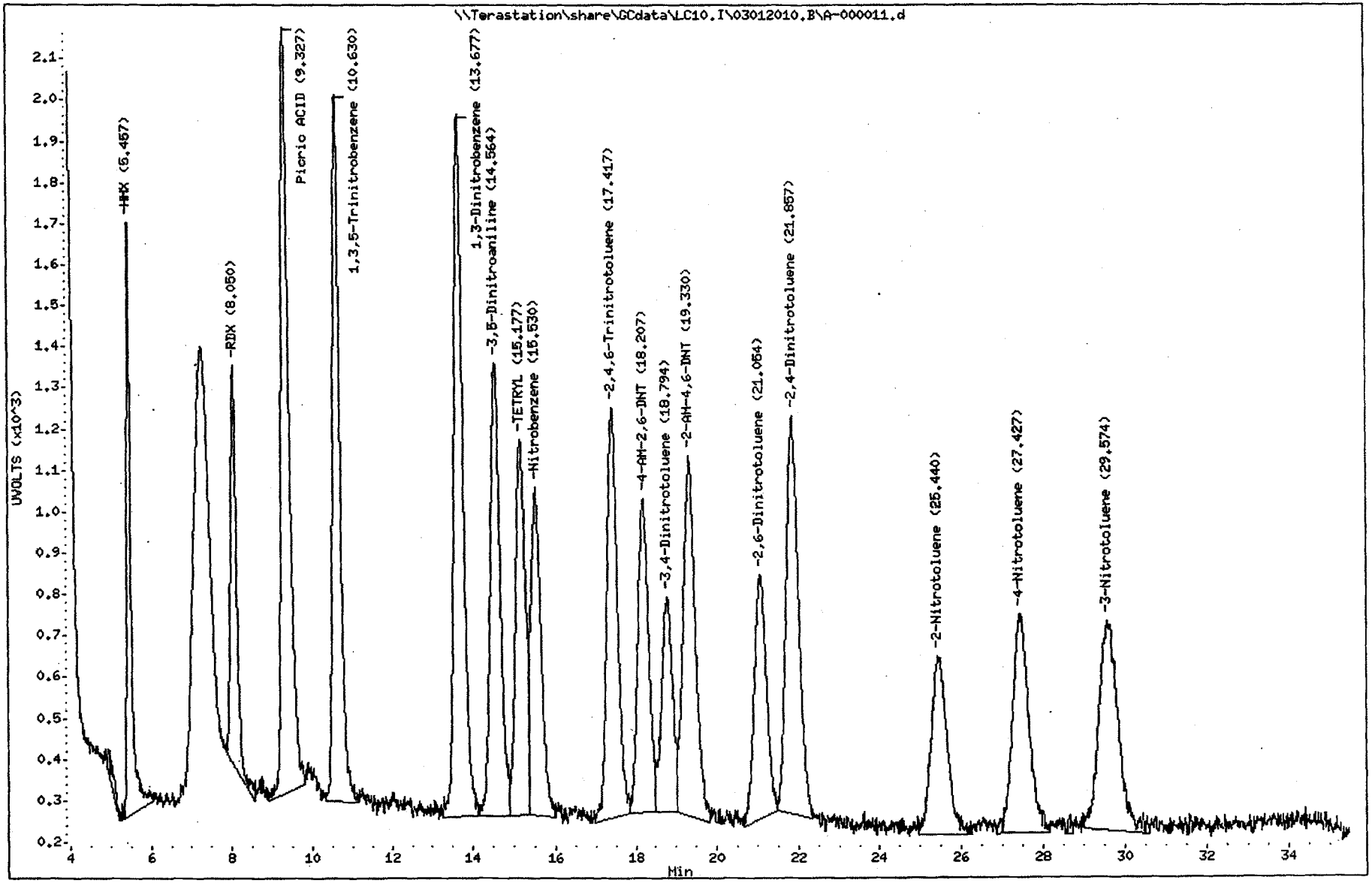
Instrument: LC10.i

Sample Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011
Lab Smp Id: CS_02 10GCSV0047 83
Inj Date : 01-MAR-2010 18:47
Operator : NS Inst ID: LC10.i
Smp Info : CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1
Misc Info : ;2; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 18:47 Cal File: A-000011.d
Als bottle: 62 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.327	37712	2684	0.071	15.09		5 Picric ACID
13.674	13032	870	0.067	4.86		
14.567	20808	1200	0.058	6.70		
15.174	21432	1293	0.060	7.22		
15.537	26114	1346	0.052	7.52		
16.464	11110	661	0.059	3.69		11 Nitroglycerin
17.430	22032	1115	0.051	6.23		
18.217	25604	1202	0.047	6.71		
18.797	23362	1138	0.049	6.36	$	1 3,4-Dinitrotoluene
19.330	23643	993	0.042	5.54		
21.064	20706	1004	0.048	5.61		
21.867	18868	825	0.044	4.61		
24.830	407	61	0.150	0.34		
25.474	27528	1053	0.038	5.88		
26.580	5360	199	0.037	1.11		
27.424	19997	729	0.036	4.07		
28.537	2688	109	0.041	0.60		
29.567	24556	859	0.035	4.80		
31.097	265	60	0.227	0.33		
31.334	437	59	0.135	0.32		
33.247	18911	432	0.023	2.41		20 PETN
	364571	17892		100.000		

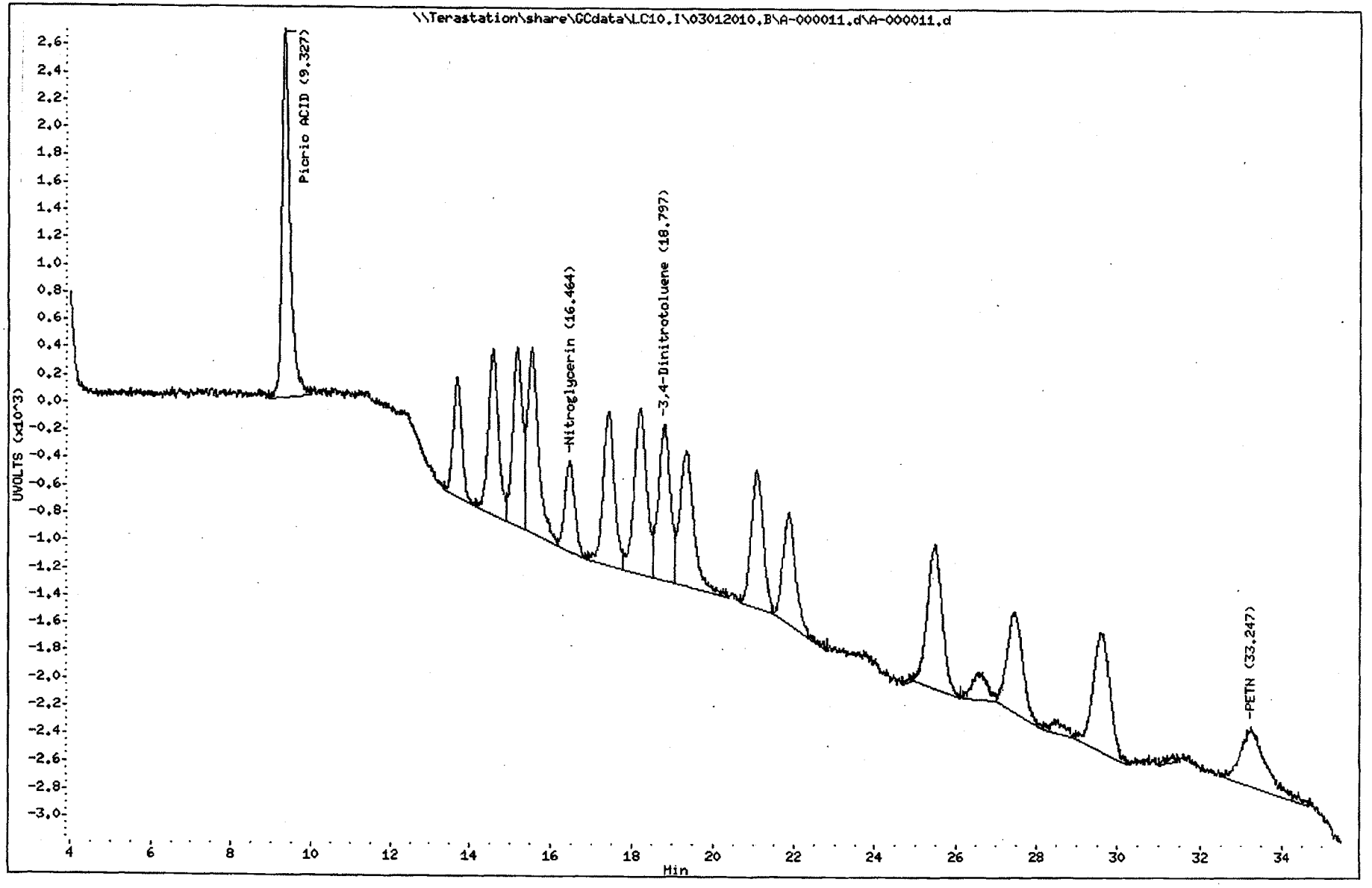
Total unknown % height = 72.45

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011.d
Date : 01-MAR-2010 18:47
Client ID:
Sample Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1

Instrument: LC10.i

Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012
Lab Smp Id: CS_03 10GCSV0048 83
Inj Date : 01-MAR-2010 19:35
Operator : NS Inst ID: LC10.i
Smp Info : CS_03 10GCSV0048 8330 ICAL L3 20ng/mL;1
Misc Info : ;3; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 19:35 Cal File: A-000012.d
Als bottle: 63 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

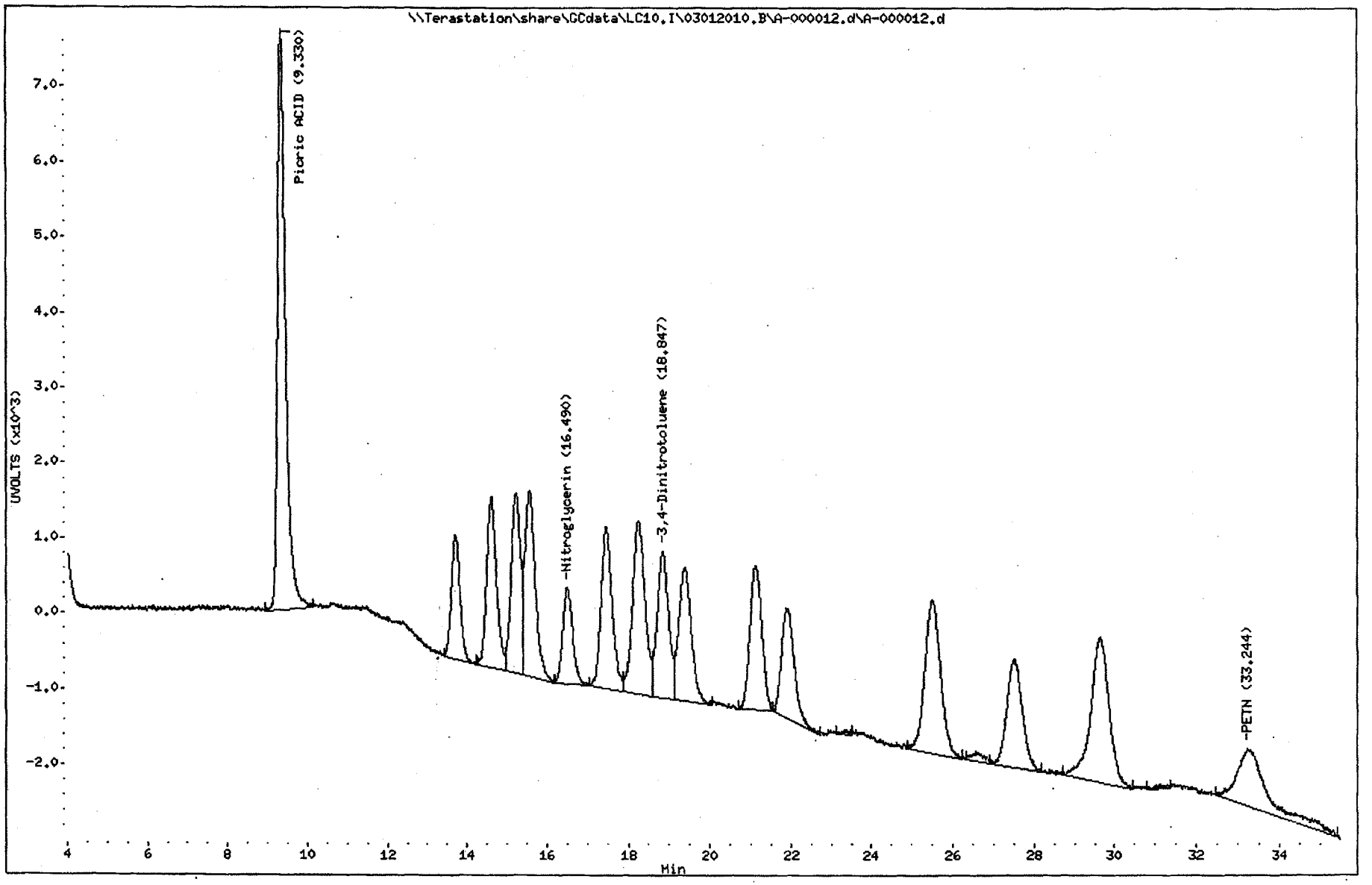
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.330	106240	7713	0.073	21.69		5 Picric ACID
13.697	25413	1657	0.065	4.63		
14.607	38842	2279	0.059	6.38		
15.227	38286	2408	0.063	6.74		
15.574	45833	2483	0.054	6.95		
16.490	21629	1271	0.059	3.55		11 Nitroglycerin
17.467	41361	2155	0.052	6.03		
18.257	47481	2291	0.048	6.41		
18.847	38195	1941	0.051	5.43	$	1 3,4-Dinitrotoluene
19.394	38016	1764	0.046	4.93		
21.124	39485	1910	0.048	5.34		
21.907	32676	1467	0.045	4.10		
23.324	684	57	0.083	0.15		
25.500	54484	2025	0.037	5.67		
26.567	2486	122	0.049	0.34		
27.527	38479	1421	0.037	3.97		
29.640	61616	1922	0.031	5.38		
31.030	938	66	0.070	0.18		
33.244	39826	761	0.019	2.13		20 PETN
	711969	35713		100.000		

Total unknown % height = 67.20

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012.d
Date : 01-MAR-2010 19:35
Client ID:
Sample Info: CS_03 10GCSV0048 8330 ICAL L3 20ng/mL;1

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



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A-000013.D

Chromatography Summary

Injection Date: 3/1/2010 20:24 Operator: NS

DataFile: LC10.I\03012010.B\A-000013.D Vial Num: 64

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_04 10GCSV0049 8330 ICAL L4 50ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 End Cal Date: 3/1/2010 20:24

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1

Misc. Info: ;4; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.81	2316	50		46.32	18.81	4744	50		94.88
HMX	5.46	6811	50		136.22✓			50		0
RDX	8.05	4789	50		95.78			50		0
Picric ACID	9.30	9168	100		91.68	9.30	13461	100		134.61
1,3,5-Trinitrobenzene	10.63	8360	50		167.2			50		0
1,3-Dinitrobenzene	13.68	8162	50		163.24			50		0
TETRYL	15.18	4408	50		88.16			50		0
Nitrobenzene	15.54	3846	50		76.92			50		0
2,4,6-Trinitrotoluene	17.44	4819	50		96.38			50		0
4-AM-2,6-DNT	18.21	3572	50		71.44			50		0
2-AM-4,6-DNT	19.36	4071	50		81.42			50		0
2,6-Dinitrotoluene	21.09	2815	50		56.3			50		0
2,4-Dinitrotoluene	21.89	4630	50		92.6			50		0
2-Nitrotoluene	25.50	2099	50		41.98			50		0
4-Nitrotoluene	27.49	2497	50		49.94			50		0
3-Nitrotoluene	29.65	2470	50		49.4			50		0
Nitroglycerin			50		0	16.47	3172	50		63.44
PETN			50		0	33.29	1531	50		30.62
3,5-Dinitroaniline	14.58	5320	50		106.4			50		0
EGDN			50		0			50		0

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/2/2010 9:05 AM

Report Date: 02-Mar-2010 09:05

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d
Lab Smp Id: CS_04 10GCSV0049 83
Inj Date : 01-MAR-2010 20:24
Operator : NS Inst ID: LC10.i
Smp Info : CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1
Misc Info : ;4; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 20:24 Cal File: A-000013.d
Als bottle: 64 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.458	45436	6811	0.150	8.48		2 HMX
8.048	49685	4789	0.096	5.96		3 RDX
9.304	126738	9168	0.072	11.49		5 Picric ACID
10.628	104984	8360	0.080	10.41		6 1,3,5-Trinitrobenze
13.684	127399	8162	0.064	10.16		7 1,3-Dinitrobenzene
14.578	87627	5320	0.061	6.62		8 3,5-Dinitroaniline
15.184	70751	4408	0.062	5.49		9 TETRYL
15.538	66616	3846	0.058	4.79		10 Nitrobenzene
16.414	794	49	0.062	0.06		
17.438	86851	4819	0.055	6.00		12 2,4,6-Trinitrotolue
18.214	68102	3572	0.052	4.44		13 4-AM-2,6-DNT
18.808	42245	2316	0.055	2.88	$	1 3,4-Dinitrotoluene
19.361	85824	4071	0.047	5.07		14 2-AM-4,6-DNT
21.091	57775	2815	0.049	3.50		15 2,6-Dinitrotoluene
21.891	100836	4630	0.046	5.76		16 2,4-Dinitrotoluene
25.498	55654	2099	0.038	2.61		17 2-Nitrotoluene
27.491	71148	2497	0.035	3.11		18 4-Nitrotoluene
29.651	75929	2470	0.033	3.07		19 3-Nitrotoluene
31.271	501	33	0.066	0.04		
33.598	774	52	0.067	0.06		
	1325667	80287		100.000		

Total unknown % height = 0.1600

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d

Page 2

Date : 01-MAR-2010 20:24

Client ID:

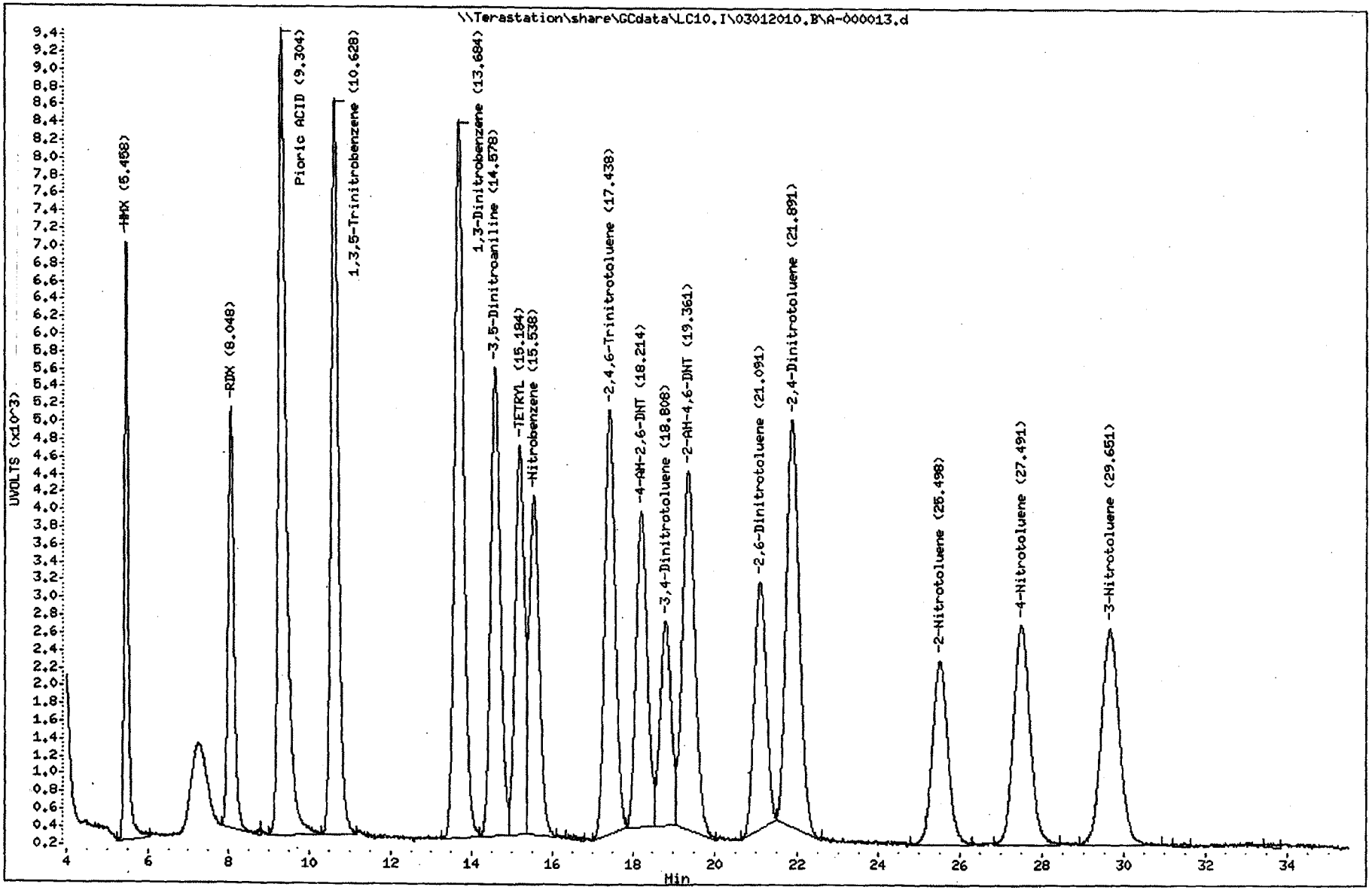
Instrument: LC10.i

Sample Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013
Lab Smp Id: CS_04 10GCSV0049 83
Inj Date : 01-MAR-2010 20:24
Operator : NS Inst ID: LC10.i
Smp Info : CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1
Misc Info : ;4; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 20:24 Cal File: A-000013.d
Als bottle: 64 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.304	185295	13461	0.073	16.49		5 Picric ACID
10.614	3096	161	0.052	0.19		
13.678	65133	4218	0.065	5.13		
14.584	93353	5620	0.060	6.84		
15.184	96571	6042	0.063	7.36		
15.544	110731	6137	0.055	7.47		
16.468	53997	3172	0.059	3.86		11 Nitroglycerin
17.434	96161	5220	0.054	6.35		
18.227	107414	5450	0.051	6.63		
18.811	91472	4744	0.052	5.77	$	1 3,4-Dinitrotoluene
19.344	96900	4395	0.045	5.35		
21.094	100166	4846	0.048	5.90		
21.874	78671	3597	0.046	4.38		
23.294	251	35	0.139	0.04		
25.498	129596	4969	0.038	6.05		
26.711	1501	100	0.067	0.12		
27.504	102174	3635	0.036	4.42		
29.648	141933	4757	0.034	5.79		
33.291	54975	1531	0.028	1.86		20 PETN
	1609390	82090		100.000		

Total unknown % height = 72.02

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d

Date : 01-MAR-2010 20:24

Client ID:

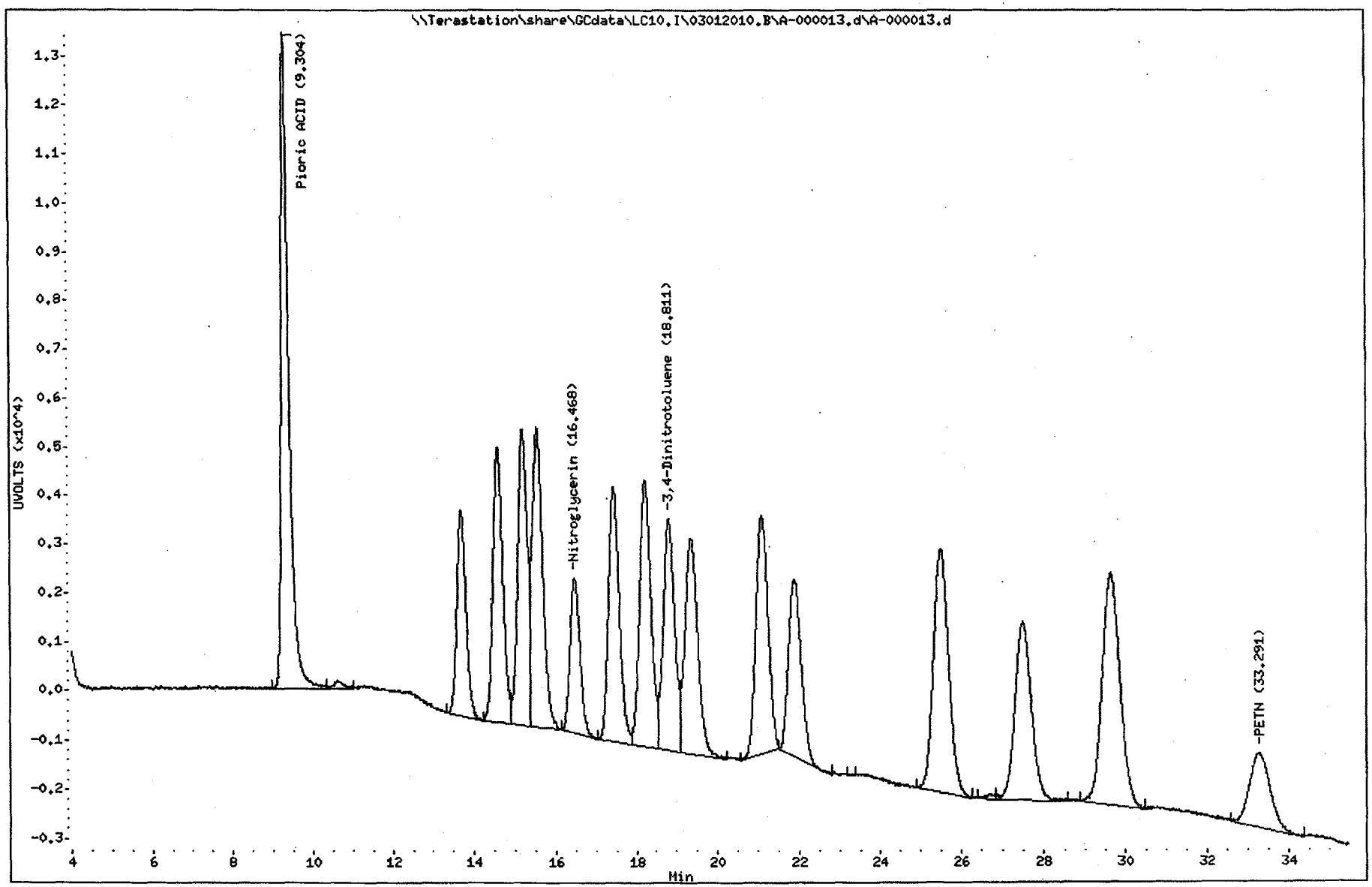
Instrument: LC10.i

Sample Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL:1

Operator: HS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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A-000014.D

Chromatography Summary

Injection Date: 3/1/2010 21:12 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000014.D **Vial Num:** 65

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_05 10GCSV0072 8330 ICAL L5 100ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 21:12

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
IX	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.81	4722	100		47.22	18.81	9643	100		96.43
HMX	5.47	12992	100		129.92			100		0
RDX	8.06	9110	100		91.1			100		0
Picric ACID	9.29	18284	200		91.42	9.29	26894	200		134.47
1,3,5-Trinitrobenzene	10.63	16047	100		160.47			100		0
1,3-Dinitrobenzene	13.68	15623	100		156.23			100		0
TETRYL	15.19	8137	100		81.37			100		0
Nitrobenzene	15.54	7347	100		73.47			100		0
2,4,6-Trinitrotoluene	17.44	8994	100		89.94			100		0
4-AM-2,6-DNT	18.23	6860	100		68.6			100		0
2-AM-4,6-DNT	19.35	7804	100		78.04			100		0
2,6-Dinitrotoluene	21.10	5415	100		54.15			100		0
2,4-Dinitrotoluene	21.88	8851	100		88.51			100		0
2-Nitrotoluene	25.49	3996	100		39.96			100		0
4-Nitrotoluene	27.49	4760	100		47.6			100		0
3-Nitrotoluene	29.63	4686	100		46.86			100		0
Nitroglycerin			100		0	16.47	6294	100		62.94
PETN			100		0	33.25	3028	100		30.28
3,5-Dinitroaniline	14.59	10143	100		101.43			100		0
EGDN			100		0			100		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:05 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d
Lab Smp Id: CS_05 10GCSV0072 83
Inj Date : 01-MAR-2010 21:12
Operator : NS Inst ID: LC10.i
Smp Info : CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 21:12 Cal File: A-000014.d
Als bottle: 65 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
4.899	891	54	0.061	0.03			
5.465	84795	12992	0.153	8.43		2	HMX
8.059	94702	9110	0.096	5.91		3	RDX
8.752	1023	89	0.087	0.05			
9.292	250834	18284	0.073	11.98		5	Picric ACID
10.632	202288	16047	0.079	10.42		6	1,3,5-Trinitrobenze
13.149	154	48	0.313	0.03			
13.682	245159	15623	0.064	10.14		7	1,3-Dinitrobenzene
14.585	167761	10143	0.060	6.58		8	3,5-Dinitroaniline
15.192	128683	8137	0.063	5.28		9	TETRYL
15.542	129697	7347	0.057	4.77		10	Nitrobenzene
17.435	161386	8994	0.056	5.84		12	2,4,6-Trinitrotolue
18.225	130131	6860	0.053	4.45		13	4-AM-2,6-DNT
18.812	87264	4722	0.054	3.06	$	1	3,4-Dinitrotoluene
19.352	162723	7804	0.048	5.06		14	2-AM-4,6-DNT
21.099	110606	5415	0.049	3.51		15	2,6-Dinitrotoluene
21.879	193383	8851	0.046	5.74		16	2,4-Dinitrotoluene
25.489	104870	3996	0.038	2.59		17	2-Nitrotoluene
27.492	133962	4760	0.036	3.09		18	4-Nitrotoluene
29.625	143046	4686	0.033	3.04		19	3-Nitrotoluene
	2533356	153962		100.000			

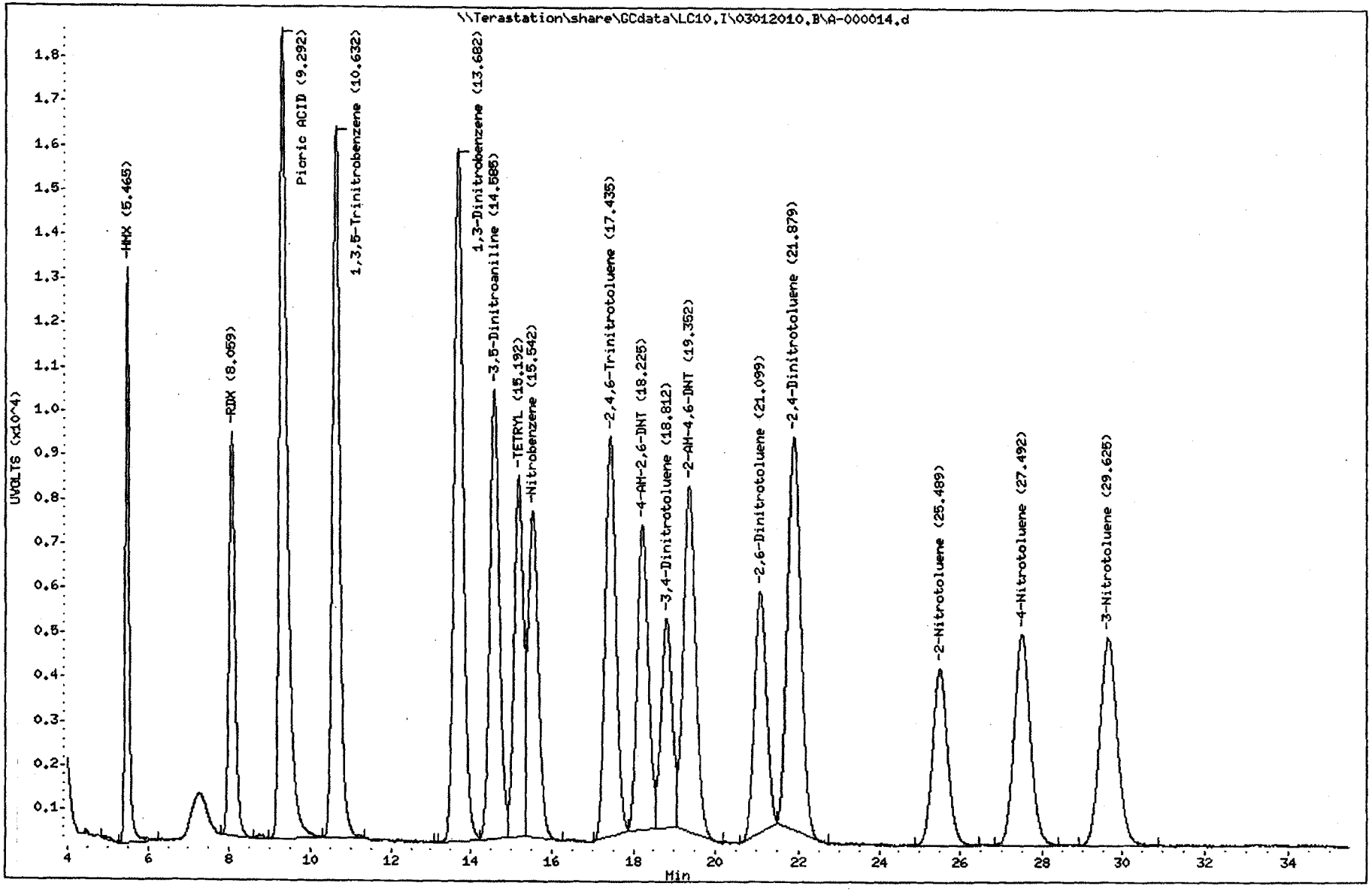
Total unknown % height = 0.1100

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d
Date : 01-MAR-2010 21:12
Client ID:
Sample Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014
Lab Smp Id: CS_05 10GCSV0072 83
Inj Date : 01-MAR-2010 21:12
Operator : NS Inst ID: LC10.i
Smp Info : CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 21:12 Cal File: A-000014.d
Als bottle: 65 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.292	368801	26894	0.073	16.99		5 Picric ACID
10.642	3652	274	0.075	0.17		
13.685	126129	8084	0.064	5.08		
14.582	178328	10700	0.060	6.72		
15.192	176375	11068	0.063	6.95		
15.542	207658	11615	0.056	7.30		
16.472	107558	6294	0.059	3.95		11 Nitroglycerin
17.435	177451	9680	0.055	6.08		
18.222	206978	10475	0.051	6.58		
18.812	188383	9643	0.051	6.06	$	1 3,4-Dinitrotoluene
19.349	180809	8403	0.046	5.28		
21.095	210800	9689	0.046	6.09		
21.882	170677	7368	0.043	4.63		
25.492	247837	9554	0.039	6.00		
27.495	197576	6973	0.035	4.38		
29.625	284762	9302	0.033	5.84		
33.245	115468	3028	0.026	1.90		20 PETN
	3149242	159044		100.000		

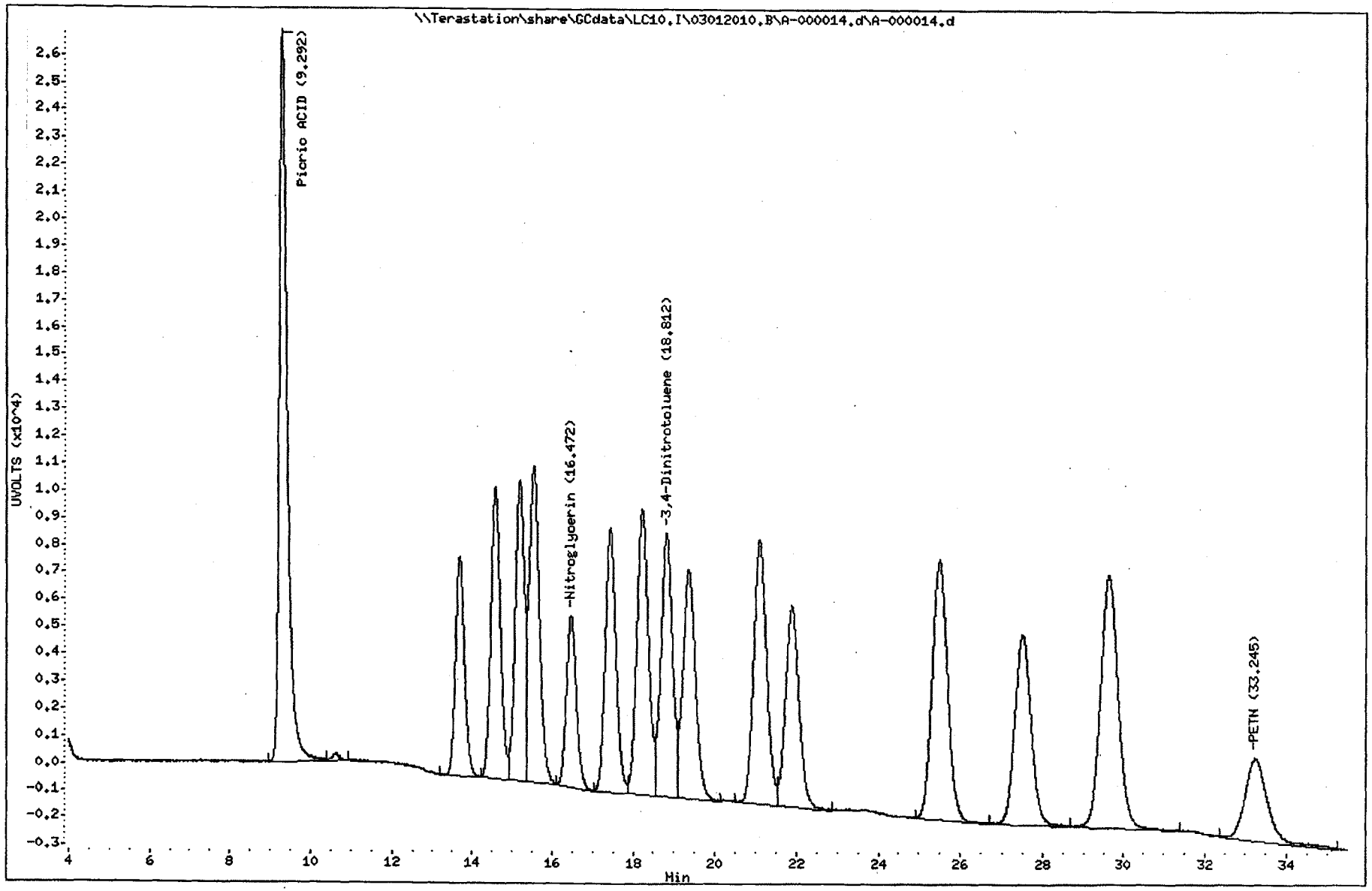
Total unknown % height = 71.10

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014.d
Date : 01-MAR-2010 21:12
Client ID:
Sample Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000015.D

Chromatography Summary

Injection Date: 3/1/2010 22:01 Operator: NS

DataFile: LC10.I\03012010.B\A-000015.D Vial Num: 66

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_06 09GCSV0482 8330 ICAL L6 200ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 End Cal Date: 3/1/2010 22:01

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1

Misc. Info: ;6; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.78	9276	200		46.38	18.78	19015	200		95.075
HMX	5.46	25936	200		129.68 ✓			200		0
RDX	8.05	18350	200		91.75			200		0
Picric ACID	9.23	42896	500		85.792	9.23	63395	500		126.79
1,3,5-Trinitrobenzene	10.62	32235	200		161.175			200		0
1,3-Dinitrobenzene	13.67	31365	200		156.825			200		0
TETRYL	15.17	18187	200		90.935			200		0
Nitrobenzene	15.53	14816	200		74.08			200		0
2,4,6-Trinitrotoluene	17.42	18851	200		94.255			200		0
4-AM-2,6-DNT	18.19	13722	200		68.61			200		0
2-AM-4,6-DNT	19.33	15663	200		78.315			200		0
2,6-Dinitrotoluene	21.07	10842	200		54.21			200		0
2,4-Dinitrotoluene	21.85	17751	200		88.755			200		0
2-Nitrotoluene	25.44	7986	200		39.93			200		0
4-Nitrotoluene	27.44	9602	200		48.01			200		0
3-Nitrotoluene	29.58	9394	200		46.97			200		0
Nitroglycerin			200		0	16.45	12767	200		63.835
PETN			200		0	33.19	6111	200		30.555
3,5-Dinitroaniline	14.56	20374	200		101.87			200		0
EGDN			200		0			200		0

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/2/2010 9:05 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d
Lab Smp Id: CS_06 09GCSV0482 83
Inj Date : 01-MAR-2010 22:01
Operator : NS Inst ID: LC10.i
Smp Info : CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:01 Cal File: A-000015.d
Als bottle: 66 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.457	166216	25936	0.156	8.16		2	HMX
8.047	189677	18350	0.097	5.77		3	RDX
8.730	1631	159	0.098	0.05			
9.234	591132	42896	0.073	13.61		5	Picric ACID
10.624	407448	32235	0.079	10.15		6	1,3,5-Trinitrobenze
11.860	1644	86	0.052	0.02			
13.670	488611	31365	0.064	9.87		7	1,3-Dinitrobenzene
14.560	335467	20374	0.061	6.41		8	3,5-Dinitroaniline
15.170	289540	18187	0.063	5.72		9	TETRYL
15.527	259183	14816	0.057	4.66		10	Nitrobenzene
17.417	336323	18851	0.056	5.93		12	2,4,6-Trinitrotolue
18.194	257823	13722	0.053	4.32		13	4-AM-2,6-DNT
18.784	169956	9276	0.055	2.92	$	1	3,4-Dinitrotoluene
19.327	325914	15663	0.048	4.93		14	2-AM-4,6-DNT
21.070	220190	10842	0.049	3.41		15	2,6-Dinitrotoluene
21.850	386688	17751	0.046	5.59		16	2,4-Dinitrotoluene
25.444	208911	7986	0.038	2.51		17	2-Nitrotoluene
27.440	270259	9602	0.036	3.02		18	4-Nitrotoluene
29.584	284175	9394	0.033	2.95		19	3-Nitrotoluene
	5190789	317491		100.000			

Total unknown % height = 0.07000

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d

Page 2

Date : 01-MAR-2010 22:01

Client ID:

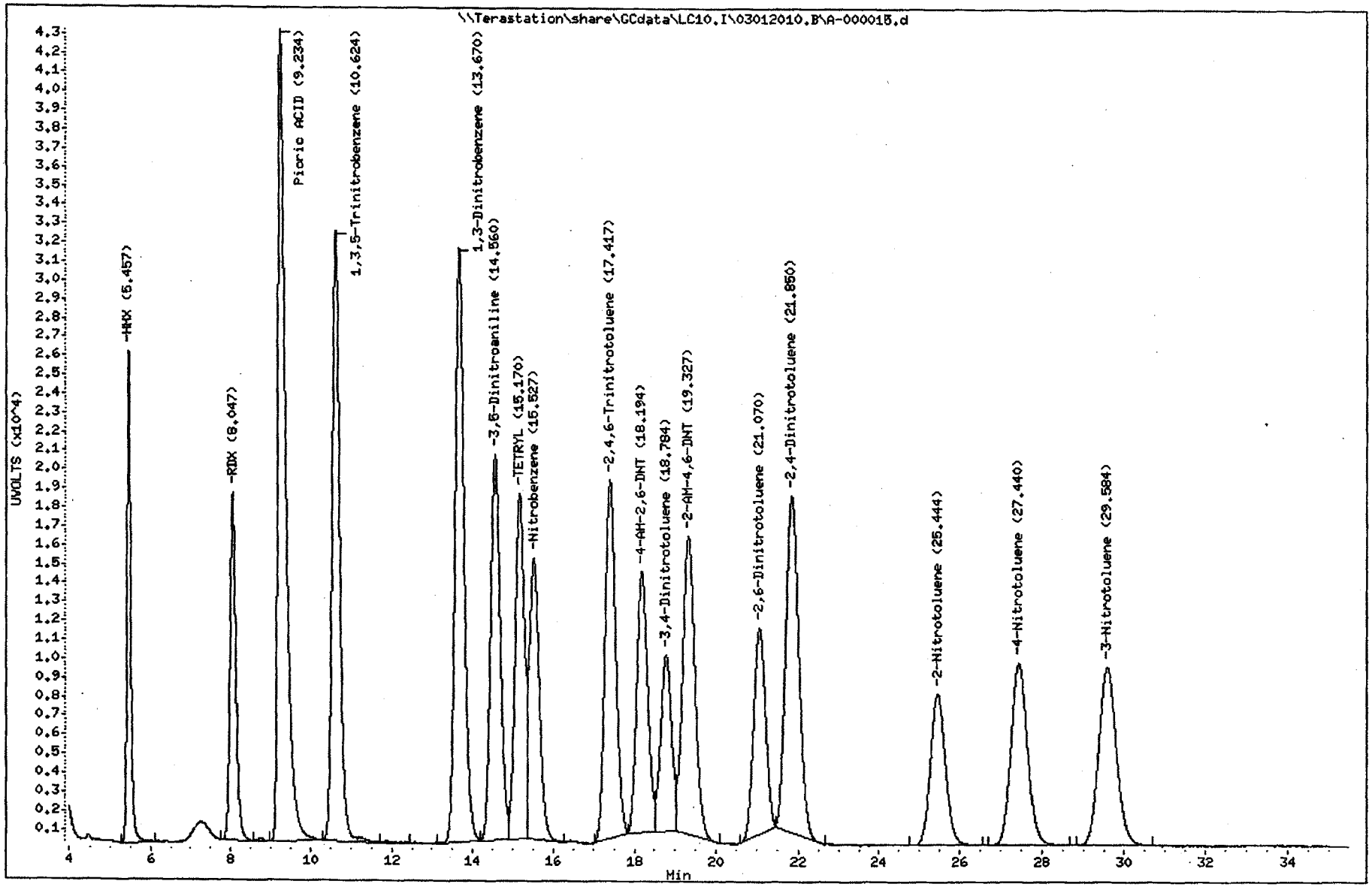
Instrument: LC10.i

Sample Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015
Lab Smp Id: CS_06 09GCSV0482 83
Inj Date : 01-MAR-2010 22:01
Operator : NS Inst ID: LC10.i
Smp Info : CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:01 Cal File: A-000015.d
Als bottle: 66 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

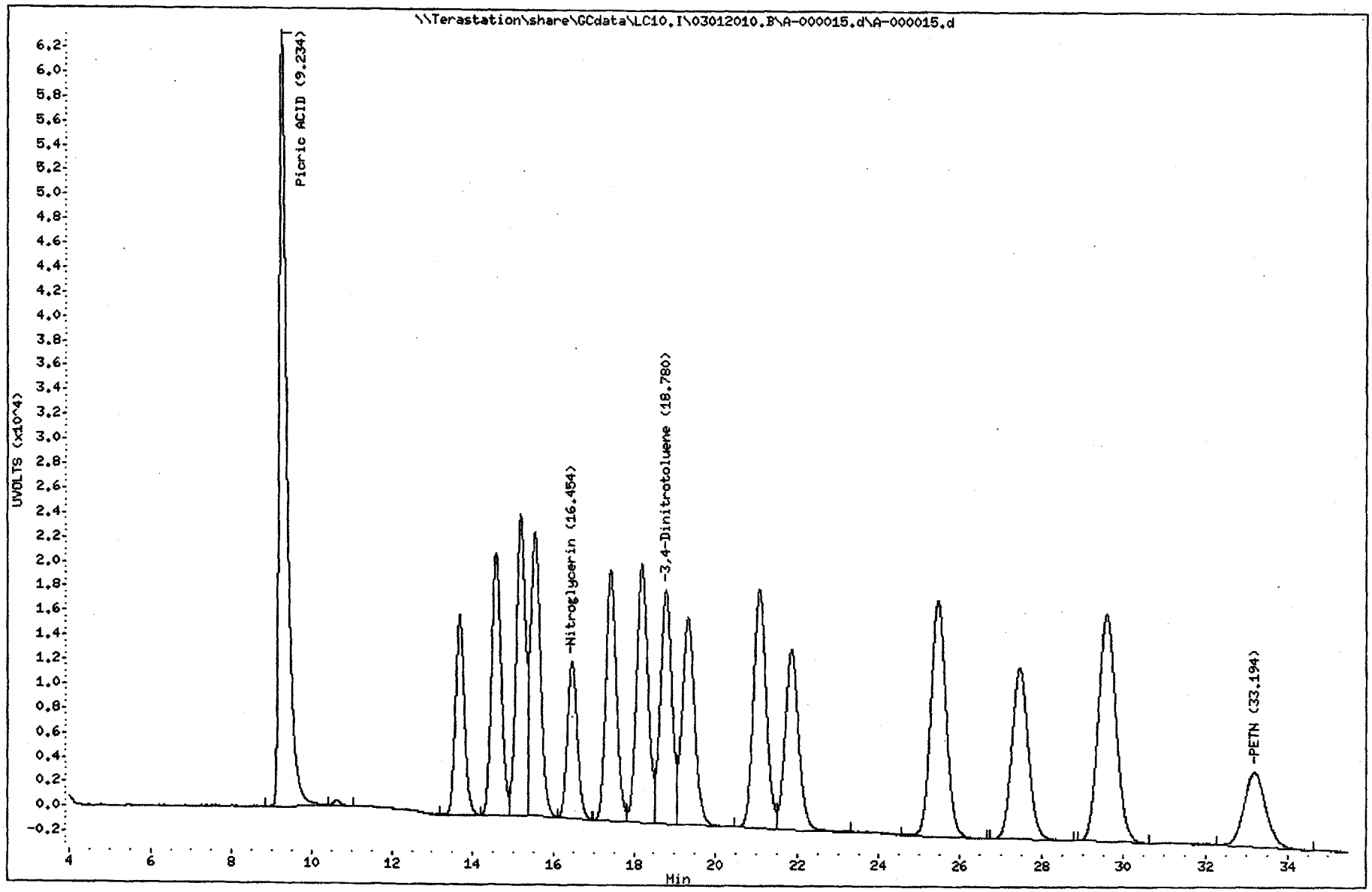
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.234	877907	63395	0.072	19.19		5 Picric ACID
10.604	7563	502	0.066	0.15		
13.670	251870	16263	0.065	4.90		
14.560	352985	21428	0.061	6.46		
15.170	390872	24641	0.063	7.42		
15.530	411489	23218	0.056	7.00		
16.454	217083	12767	0.059	3.84		11 Nitroglycerin
17.417	374262	20442	0.055	6.16		
18.194	411896	21054	0.051	6.34		
18.780	370374	19015	0.051	5.73	$	1 3,4-Dinitrotoluene
19.324	363092	16897	0.047	5.09		
21.070	421536	19456	0.046	5.86		
21.850	338306	14649	0.043	4.41		
25.447	503563	19242	0.038	5.80		
27.447	392412	13998	0.036	4.22		
29.580	556077	18569	0.033	5.59		
33.194	224921	6111	0.027	1.84		20 PETN
	6466209	331647		100.000		

Total unknown % height = 69.40

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015.d
Date : 01-MAR-2010 22:01
Client ID:
Sample Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

A-000016.D

Chromatography Summary

Injection Date: 3/1/2010 22:49 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000016.D **Vial Num:** 67

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_07 10GCSV0050 8330 ICAL L7 500ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Misc. Info: ;7; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.77	15143	300		50.47666667	18.77	28557	300		95.19
HMX	5.45	62615	500		125.23			500		0
RDX	8.02	41614	500		83.228			500		0
Picric ACID	9.16	80007	1000		80.007	9.16	118234	1000		118.234
1,3,5-Trinitrobenzene	10.60	76711	500		153.422			500		0
1,3-Dinitrobenzene	13.65	73699	500		147.398			500		0
TETRYL	15.17	42860	500		85.72			500		0
Nitrobenzene	15.51	35969	500		71.938			500		0
2,4,6-Trinitrotoluene	17.41	46415	500		92.83			500		0
4-AM-2,6-DNT	18.18	34807	500		69.614			500		0
2-AM-4,6-DNT	19.31	39096	500		78.192			500		0
2,6-Dinitrotoluene	21.06	27792	500		55.584			500		0
2,4-Dinitrotoluene	21.83	45016	500		90.032			500		0
2-Nitrotoluene	25.43	19577	500		39.154			500		0
4-Nitrotoluene	27.43	23579	500		47.158			500		0
3-Nitrotoluene	29.56	23281	500		46.562			500		0
Nitroglycerin			500		0	16.45	31894	500		63.788
PETN			500		0	33.18	15365	500		30.73
3,5-Dinitroaniline	14.55	48271	500		96.542			500		0
EGDN			500		0			500		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:13 AM

Report Date: 02-Mar-2010 09:06

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d
Lab Smp Id: CS_07 10GCSV0050 83
Inj Date : 01-MAR-2010 22:49
Operator : NS Inst ID: LC10.i
Smp Info : CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1
Misc Info : ;7; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:49 Cal File: A-000016.d
Als bottle: 67 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

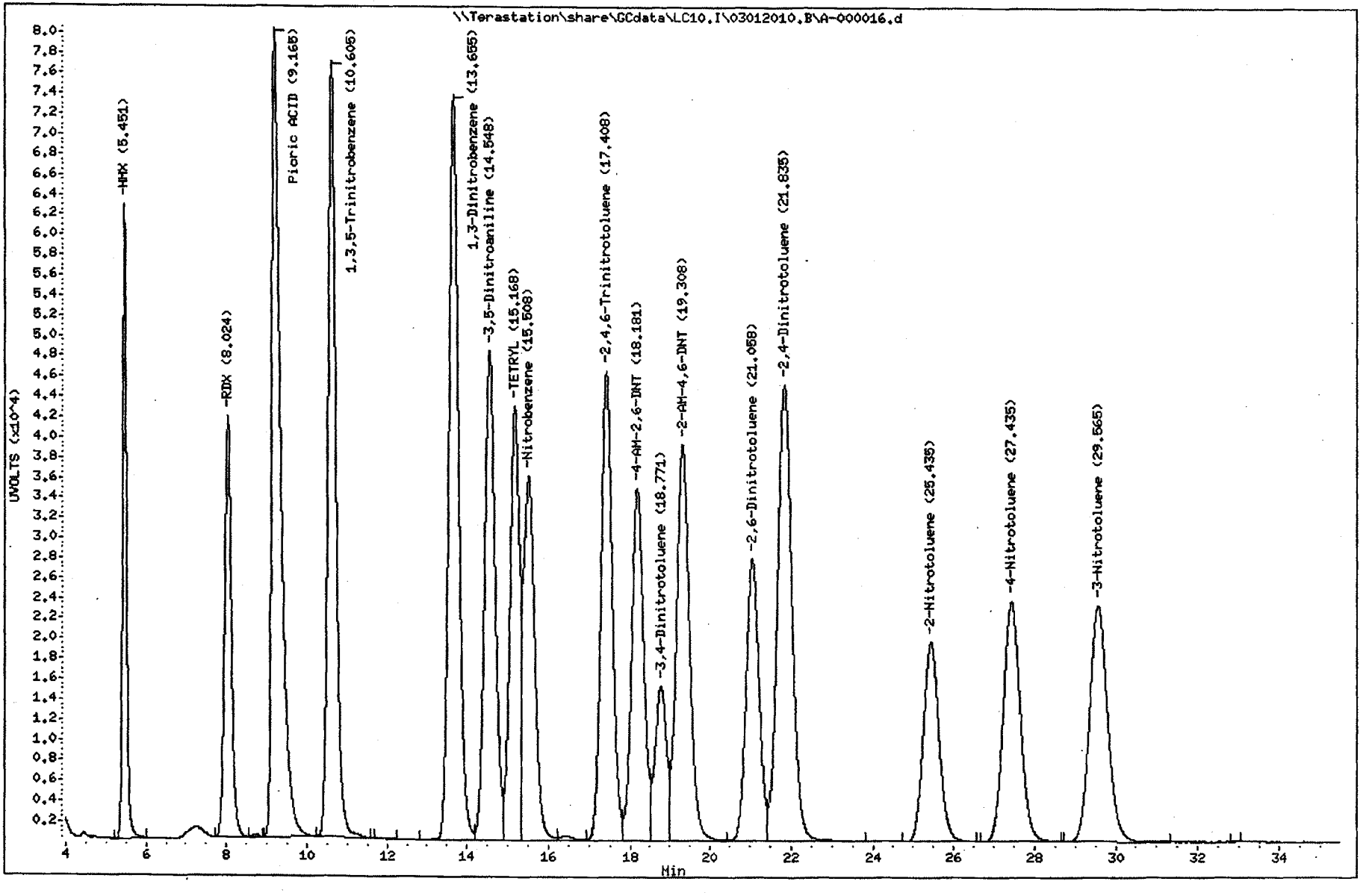
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.451	416901	62615	0.150	8.49		2 HMX
8.024	480570	41614	0.087	5.64		3 RDX
8.731	3125	314	0.100	0.04		
9.165	1211667	80007	0.066	10.94		5 Picric ACID
10.605	1035221	76711	0.074	10.40		6 1,3,5-Trinitrobenze
11.848	1527	100	0.066	0.01		
13.655	1252608	73699	0.059	9.99		7 1,3-Dinitrobenzene
14.548	871282	48271	0.055	6.54		8 3,5-Dinitroaniline
15.168	708842	42860	0.060	5.81		9 TETRYL
15.508	678947	35969	0.053	4.87		10 Nitrobenzene
16.441	12261	474	0.039	0.06		
17.408	880489	46415	0.053	6.29		12 2,4,6-Trinitrotolue
18.181	728730	34807	0.048	4.72		13 4-AM-2,6-DNT
18.771	295106	15143	0.051	2.05	$	1 3,4-Dinitrotoluene
19.308	895530	39096	0.044	5.30		14 2-AM-4,6-DNT
21.058	624449	27792	0.045	3.76		15 2,6-Dinitrotoluene
21.835	1077151	45016	0.042	6.10		16 2,4-Dinitrotoluene
25.435	527736	19577	0.037	2.65		17 2-Nitrotoluene
27.435	681957	23579	0.035	3.19		18 4-Nitrotoluene
29.565	724652	23281	0.032	3.15		19 3-Nitrotoluene
33.008	394	56	0.142	0.00		
	13109141	737396		100.000		

Total unknown % height = 0.1100

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d
Date : 01-MAR-2010 22:49
Client ID:
Sample Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d\A-000016
Lab Smp Id: CS_07 10GCSV0050 83
Inj Date : 01-MAR-2010 22:49
Operator : NS Inst ID: LC10.i
Smp Info : CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1
Misc Info : ;7; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:49 Cal File: A-000016.d
Als bottle: 67 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.485	1226	134	0.109	0.01		
9.165	1801880	118234	0.066	15.92		5 Picric ACID
10.601	18148	1185	0.065	0.15		
13.655	634901	38065	0.060	5.09		
14.548	888354	50040	0.056	6.69		
15.168	920443	56978	0.062	7.62		
15.508	1035218	55007	0.053	7.36		
16.448	556361	31894	0.057	4.26		11 Nitroglycerin
17.408	925782	49266	0.053	6.59		
18.181	1051955	50896	0.048	6.81		
18.768	569495	28557	0.050	3.82	$	1 3,4-Dinitrotoluene
19.308	920348	40623	0.044	5.43		
21.058	1064633	47412	0.045	6.34		
21.835	858571	35861	0.042	4.79		
24.598	268	47	0.175	0.00		
25.431	1265176	46976	0.037	6.28		
27.435	989216	34437	0.035	4.60		
29.568	1436953	46330	0.032	6.19		
33.181	561924	15365	0.027	2.05		20 PETN
	15500852	747307		100.000		

Total unknown % height = 73.95

Data File: \\Terastation\share\GCdata\LC10,I\03012010,B\A-000016.d\A-000016.d

Date : 01-MAR-2010 22:49

Client ID:

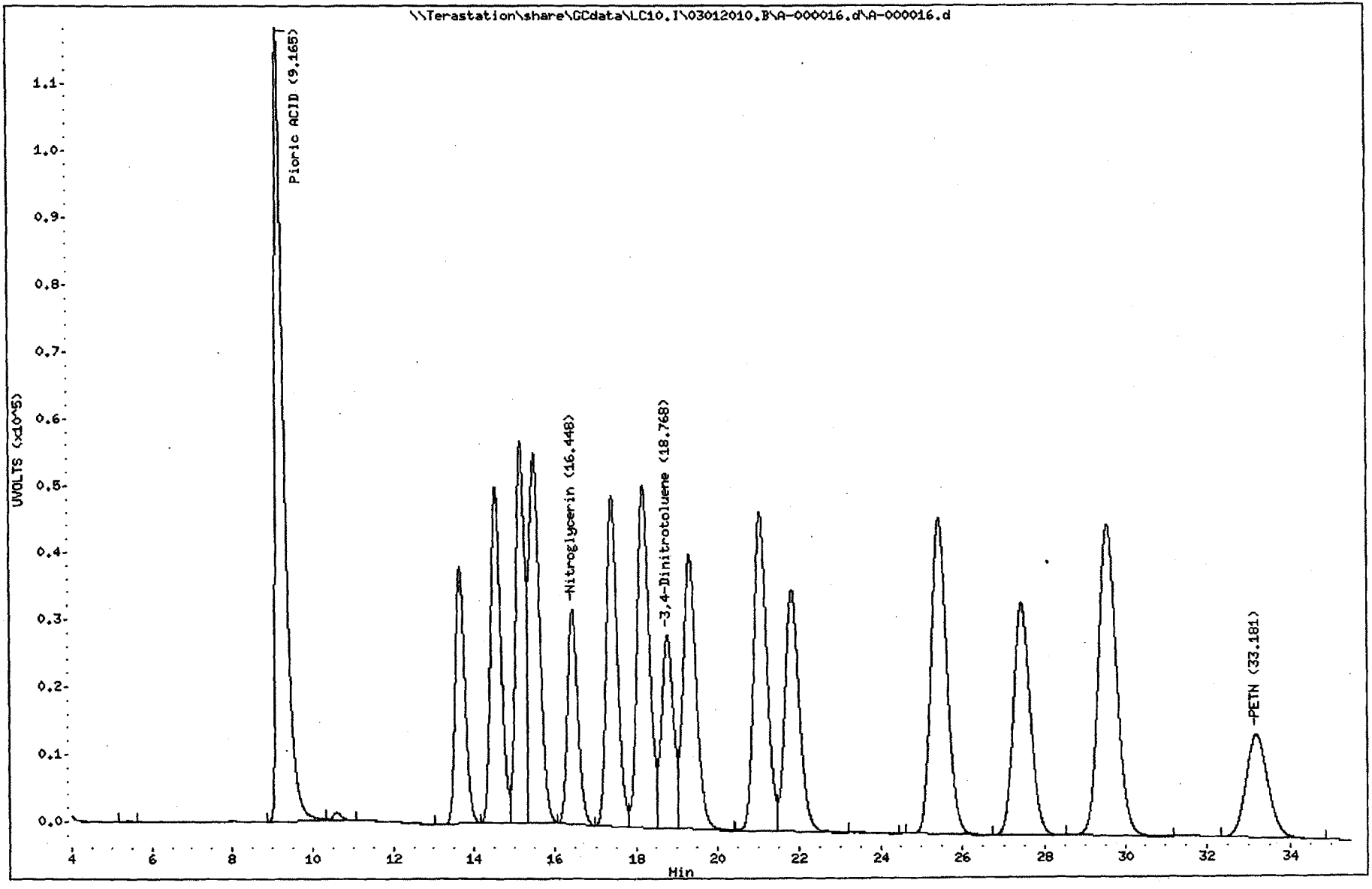
Instrument: LC10,i

Sample Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000017.D

Chromatography Summary

Injection Date: 3/1/2010 23:38 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000017.D **Vial Num:** 68

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1

Misc. Info: ;8; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.72	24230	500	O	48.46	18.72	45462	500		90.924
HMX	5.43	113959	1000		113.959			1000		0
RDX	7.98	69009	1000		69.009			1000		0
Picric ACID	9.05	140424	2000		70.212	9.05	207615	2000		103.8075
1,3,5-Trinitrobenzene	10.57	138309	1000		138.309			1000		0
1,3-Dinitrobenzene	13.60	129439	1000		129.439			1000		0
TETRYL	15.13	82698	1000		82.698			1000		0
Nitrobenzene	15.44	65004	1000		65.004			1000		0
2,4,6-Trinitrotoluene	17.37	87754	1000		87.754			1000		0
4-AM-2,6-DNT	18.12	63160	1000		63.16			1000		0
2-AM-4,6-DNT	19.24	70541	1000		70.541			1000		0
2,6-Dinitrotoluene	21.00	51559	1000		51.559			1000		0
2,4-Dinitrotoluene	21.78	83626	1000		83.626			1000		0
2-Nitrotoluene	25.38	36496	1000		36.496			1000		0
4-Nitrotoluene	27.38	44327	1000		44.327			1000		0
3-Nitrotoluene	29.52	43900	1000		43.9			1000		0
Nitroglycerin			1000		0	16.40	58641	1000		58.641
PETN			1000		0	33.18	29443	1000		29.443
3,5-Dinitroaniline	14.48	83803	1000		83.803			1000		0
EGDN			1000		0			1000		0

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/2/2010 9:13 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d
Lab Smp Id: CS_8 10GCSV0051 833
Inj Date : 01-MAR-2010 23:38
Operator : NS Inst ID: LC10.i
Smp Info : CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1
Misc Info : ;8; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 68 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

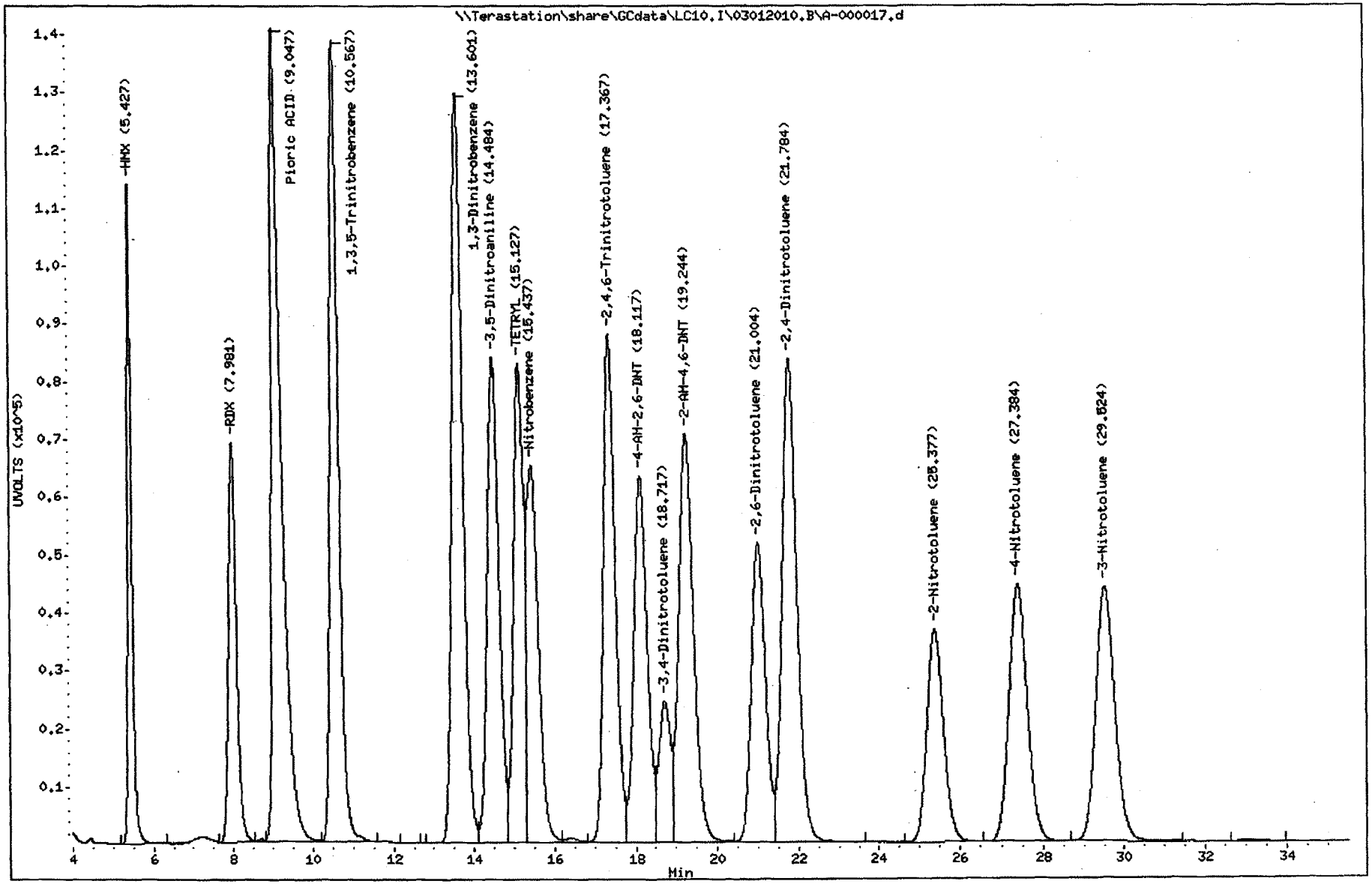
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.427	827431	113959	0.138	8.56		2	HMX
7.981	952597	69009	0.072	5.18		3	RDX
8.691	5167	488	0.094	0.03			
9.047	2441773	140424	0.058	10.67		5	Picric ACID
10.567	2048475	138309	0.068	10.40		6	1,3,5-Trinitrobenze
11.704	2378	130	0.055	0.00			
12.737	105	32	0.305	0.00			
13.601	2473570	129439	0.052	9.73		7	1,3-Dinitrobenzene
14.484	1724514	83803	0.049	6.30		8	3,5-Dinitroaniline
15.127	1459896	82698	0.057	6.21		9	TETRYL
15.437	1289673	65004	0.050	4.88		10	Nitrobenzene
16.384	20053	821	0.041	0.06			
17.367	1740145	87754	0.050	6.59		12	2,4,6-Trinitrotolue
18.117	1447688	63160	0.044	4.74		13	4-AM-2,6-DNT
18.717	479754	24230	0.051	1.82	$	1	3,4-Dinitrotoluene
19.244	1783414	70541	0.040	5.30		14	2-AM-4,6-DNT
21.004	1228917	51559	0.042	3.87		15	2,6-Dinitrotoluene
21.784	2134514	83626	0.039	6.28		16	2,4-Dinitrotoluene
25.377	1045252	36496	0.035	2.74		17	2-Nitrotoluene
27.384	1350743	44327	0.033	3.33		18	4-Nitrotoluene
29.524	1430938	43900	0.031	3.30		19	3-Nitrotoluene
33.121	6765	174	0.026	0.01			
	25893762	1329883		100.000			

Total unknown % height = 0.1000

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d
Date : 01-MAR-2010 23:38
Client ID:
Sample Info: CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017
Lab Smp Id: CS_8 10GCSV0051 833
Inj Date : 01-MAR-2010 23:38
Operator : NS Inst ID: LC10.i
Smp Info : CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1
Misc Info : ;8; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 68 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.447	1758	206	0.117	0.01		
9.047	3637561	207615	0.057	15.38		5 Picric ACID
10.571	37430	2140	0.057	0.15		
13.601	1240595	66569	0.054	4.90		
14.484	1731770	86220	0.050	6.35		
15.127	1874057	109833	0.059	8.09		
15.444	1974943	98419	0.050	7.25		
16.401	1064874	58641	0.055	4.32		11 Nitroglycerin
17.367	1824539	93001	0.051	6.85		
18.117	2091139	92202	0.044	6.79		
18.717	934453	45462	0.049	3.34	$	1 3,4-Dinitrotoluene
19.241	1843762	73481	0.040	5.41		
21.004	2100182	87867	0.042	6.47		
21.784	1707651	66631	0.039	4.90		
24.551	1208	115	0.095	0.00		
25.377	2506382	87542	0.035	6.44		
27.384	1957874	64603	0.033	4.75		
29.524	2846434	87440	0.031	6.44		
33.177	1095804	29443	0.027	2.16		20 PETN
	30472416	1357430		100.000		

Total unknown % height = 74.80

Data File: \\Terastation\share\GCdata\LC10,I\03012010,B\A-000017.d\A-000017.d

Date : 01-MAR-2010 23:38

Client ID:

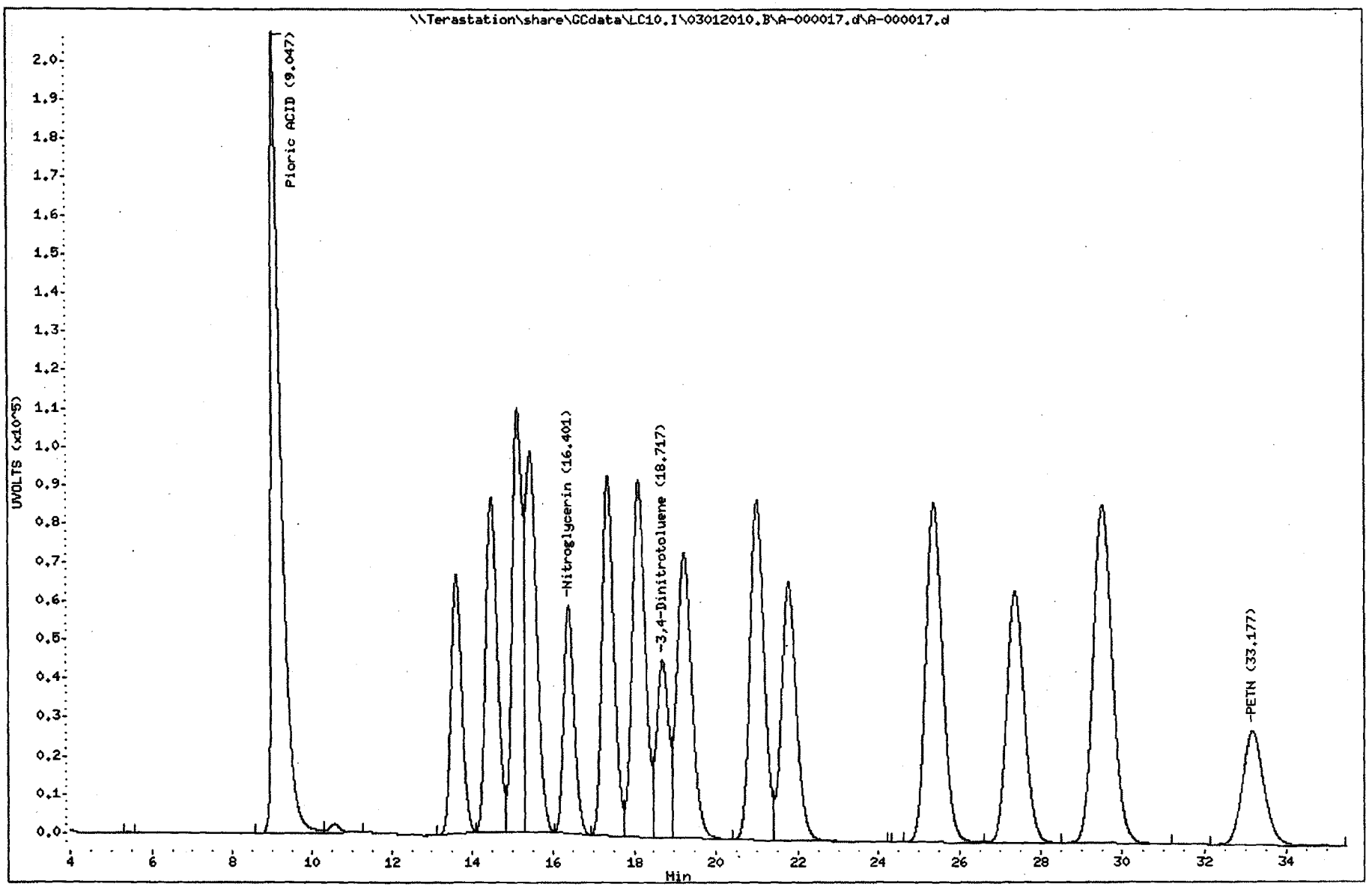
Instrument: LC10,i

Sample Info: CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

GC/HPLC ICAL Checklist

Instrument ID: LC9-CN ICAL ID: 03032010 Method: 8330

Analytes Included in curve (with dates): 8330 All, NB, PETN, 3,5 DNA

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	✓	✓	
2. ICAL Runlog included.	✓	✓	
3. ICV Included and moved to after summary.	✓	✓	
4. PEM meets requirements and is included for 8081.			✓
5. Alkane Marker included for 8015 TPH.			✓
6. ICAL Raw Data included for all analytes.	✓	✓	
B. ICAL Summary			
1. All analytes meet %RSD or linear regression requirements.	✓	✓	
2. ICAL meets requirements stated in SOP.	✓	✓	
2. Any levels dropped are reviewed and appropriate.			✓
3. All analytes in ICAL are in the ICAL summary.	✓	✓	
4. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			✓
2. All peaks correctly identified.	✓	✓	
3. No analytes have saturated peaks.	✓	✓	
4. RT windows set correctly (8015 TPH).			✓
5. ICV meets requirements and is run after the ICAL.	✓	✓	
6. Standards used in ICAL are current.	✓	✓	
7. ICAL is copied to source method.	✓	✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	✓		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	✓		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

Analyst: [signature] Date: 3/4/10

Reviewer: [signature] Date: 3/4/2010

Comments:

Report Date : 04-Mar-2010 10:14

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Last Edit : 04-Mar-2010 10:14 shafern

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000004.d
Level 2: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000005.d
Level 3: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000006.d
Level 4: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000007.d
Level 5: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000008.d
Level 6: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000009.d
Level 7: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000010.d
Level 8: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000011.d

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
2 TNX	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
3 DNX	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
4 HMX	42.00000	42.00000	39.55000	40.30000	38.38000	38.14000						
	37.78800	34.70100					AVRG		39.10738		6.18657	

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Last Edit : 04-Mar-2010 10:14 shafern

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
5 MNX	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
6 EGDN	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
7 RDX	38.40000	37.10000	38.10000	35.58000	34.31000	34.06000						
	31.93600	27.77800					AVRG		34.65800		10.22367	
8 Picric ACID	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	
9 1,3,5-Trinitrobenzene	64.80000	62.90000	63.10000	61.74000	59.17000	59.16000						
	58.22800	53.70200					AVRG		60.35000		5.85191	
10 1,3-Dinitrobenzene	86.60000	84.90000	84.05000	82.46000	79.38000	79.41500						
	75.13000	65.65000					AVRG		79.69812		8.47906	
11 3,5-Dinitroaniline	59.60000	57.60000	58.70000	56.66000	54.48000	54.27500						
	51.76400	45.35600					AVRG		54.80438		8.39955	

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Last Edit : 04-Mar-2010 10:14 shafern

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
12 TETRYL	138	144	138	142	133	147							
	137	130							AVRG		139		4.05740
13 Nitrobenzene	38.60000	40.70000	41.95000	40.64000	39.22000	39.09500							
	35.95200	30.55000							AVRG		38.33838		9.44015
14 Nitroglycerin	+++++	+++++	+++++	+++++	+++++	+++++							
	+++++	+++++							AVRG		0.000e+000		0.000e+000
15 2,4,6-Trinitrotoluene	50.40000	48.50000	47.10000	48.86000	45.77000	47.18500							
	46.53400	43.92800							AVRG		47.28463		4.21707
16 4-AM-2,6-DNT	378	578	1082	2205	3964	8014							
	20320	39783							LINR	-4.65787	39.70529		0.99989
17 2-AM-4,6-DNT	83.20000	70.90000	69.80000	64.38000	61.05000	61.34000							
	59.22000	53.74000							AVRG		65.45375		13.87115
18 2,6-Dinitrotoluene	41.80000	40.90000	40.15000	37.18000	35.66000	35.13000							
	35.12800	31.30900							AVRG		37.15713		9.60663

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Last Edit : 04-Mar-2010 10:14 shafern

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
19 2,4-Dinitrotoluene	64.40000	63.70000	64.65000	61.76000	59.69000	59.53000								
	57.53000	52.13500							AVRG		60.42437		6.98244	
20 2-Nitrotoluene	17.10000	19.00000	19.75000	18.29000	17.45500	17.55250								
	17.14700	15.68900							AVRG		17.74794		7.06764	
21 4-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++								
	+++++	+++++							AVRG		0.000e+000		0.000e+000	<-
22 3-Nitrotoluene	25.00000	27.90000	28.55000	26.42000	25.17000	25.18500								
	24.26000	22.63400							AVRG		25.63988		7.51112	
23 PETN	+++++	+++++	+++++	+++++	+++++	+++++								
	+++++	+++++							AVRG		0.000e+000		0.000e+000	
$ 1 3,4-Dinitrotoluene	+++++	33.90000	29.65000	31.48000	32.27000	30.66000								
	31.27000	28.59000							AVRG		31.11714		5.56257	

3/4/2010 MW

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Last Edit : 04-Mar-2010 10:14 shafern

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Report Date: 04-Mar-2010 10:00

Calibration History

Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Start Cal Date: 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
03-MAR-2010 19:39	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000004.d
Cal Level: 2 , Cal Amount: 10.00000		
03-MAR-2010 20:45	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000005.d
Cal Level: 3 , Cal Amount: 20.00000		
03-MAR-2010 21:50	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000006.d
Cal Level: 4 , Cal Amount: 50.00000		
03-MAR-2010 22:56	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d
Cal Level: 5 , Cal Amount: 100.00000		
04-MAR-2010 00:01	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d
Cal Level: 6 , Cal Amount: 200.00000		
04-MAR-2010 01:07	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d
Cal Level: 7 , Cal Amount: 500.00000		
04-MAR-2010 02:12	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d
Cal Level: 8 , Cal Amount: 1000.00000		

04-MAR-2010 03:18	CAL	
\\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d		

Continuing Calibration
Ccal Level Mode: BY SAMPLE

04-MAR-2010 06:34	CAL	
\\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d		
04-MAR-2010 05:29	CAL	
\\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d		
04-MAR-2010 00:01	CAL	
\\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d		

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 20:45
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\
Last Edit : 04-Mar-2010 09:46 tap
Curve Type : Average

Calibration File Names:
Level 2: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000005.d\C-000
Level 3: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000006.d\C-000
Level 4: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000007.d\C-000
Level 5: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000008.d\C-000
Level 6: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000009.d\C-000
Level 7: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000010.d\C-000
Level 8: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000011.d\C-000

Compound	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	500.000 Level 7	1000.000 Level 8	___ RRF	% RSD
2 TNX	*****	*****	*****	*****	*****	*****	*****	*****	*****
3 DNX	*****	*****	*****	*****	*****	*****	*****	*****	*****
4 HMX	*****	*****	*****	*****	*****	*****	*****	*****	*****
5 MNX	*****	*****	*****	*****	*****	*****	*****	*****	*****
6 EGDN	*****	*****	*****	*****	*****	*****	*****	*****	*****
7 RDX	*****	*****	*****	*****	*****	*****	*****	*****	*****
8 Picric ACID	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 1,3,5-Trinitrobenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 20:45
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\
Last Edit : 04-Mar-2010 09:46 tap
Curve Type : Average

Compound	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	500.000 Level 7	1000.000 Level 8	___ RRF	% RSD
10 1,3-Dinitrobenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 3,5-Dinitroaniline	*****	*****	*****	*****	*****	*****	*****	*****	*****
12 TETRYL	*****	*****	*****	*****	*****	*****	*****	*****	*****
13 Nitrobenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****
14 Nitroglycerin	*****	44.30000	47.20000	48.56000	50.20500	50.82400	48.25000	48.22317	4.841
15 2,4,6-Trinitrotoluene	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 4-AM-2,6-DNT	*****	*****	*****	*****	*****	*****	*****	*****	*****
17 2-AM-4,6-DNT	*****	*****	*****	*****	*****	*****	*****	*****	*****
18 2,6-Dinitrotoluene	*****	*****	*****	*****	*****	*****	*****	*****	*****
19 2,4-Dinitrotoluene	*****	*****	*****	*****	*****	*****	*****	*****	*****
20 2-Nitrotoluene	*****	*****	*****	*****	*****	*****	*****	*****	*****

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 20:45
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\
Last Edit : 04-Mar-2010 09:46 tap
Curve Type : Average

Compound	10.000 Level 2 / 1000.000 Level 8	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	500.000 Level 7	RRF	% RSD
21 4-Nitrotoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 3-Nitrotoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 PETN	+++++ / 214	232	220	218	218	221	221	2.662
$ 1 3,4-Dinitrotoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-

3/4/2010 MW

Report Date: 04-Mar-2010 10:00

Calibration History

Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN2.M
Start Cal Date: 03-MAR-2010 20:45
End Cal Date : 04-MAR-2010 03:18
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 10.00000		
03-MAR-2010 20:45	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000005.d\C-000005.d
Cal Level: 3 , Cal Amount: 20.00000		
03-MAR-2010 21:50	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000006.d\C-000006.d
Cal Level: 4 , Cal Amount: 50.00000		
03-MAR-2010 22:56	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d\C-000007.d
Cal Level: 5 , Cal Amount: 100.00000		
04-MAR-2010 00:01	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d\C-000008.d
Cal Level: 6 , Cal Amount: 200.00000		
04-MAR-2010 01:07	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d\C-000009.d
Cal Level: 7 , Cal Amount: 500.00000		
04-MAR-2010 02:12	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d\C-000010.d
Cal Level: 8 , Cal Amount: 1000.00000		
04-MAR-2010 03:18	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d\C-000011.d

Continuing Calibration

Ccal Level Mode: BY SAMPLE

04-MAR-2010 06:34	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d\C-000014.d
04-MAR-2010 06:34	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d\C-000014.d
04-MAR-2010 05:29	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d\C-000013.d
03-MAR-2010 22:56	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d\C-000007.d
03-MAR-2010 22:56	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d\C-000007.d

TestAmerica West Sacramento

Calibration Standard Level Reference Sheet

8330, 8330A, 8330B

	Concentration (ppb)							
Analyte	Level 1	2	3	4	5	6	7	8
3,4-Dinitrotoluene (surr)		10	20	50	100	200	300	500
HMX	5	10	20	50	100	200	500	1000
MNX	5	10	20	50	100	200	500	1000
DNX	5	10	20	50	100	200	500	1000
TNX	5	10	20	50	100	200	500	1000
RDX	5	10	20	50	100	200	500	1000
1,3,5-Trinitrobenzene	5	10	20	50	100	200	500	1000
1,3-Dinitrotoluene	5	10	20	50	100	200	500	1000
3.5-Dinitroaniline	5	10	20	50	100	200	500	1000
TETRYL	5	10	20	50	100	200	500	1000
Nitrobenzene	5	10	20	50	100	200	500	1000
2,4,6-Trinitrotoluene	5	10	20	50	100	200	500	1000
4-Amino-2,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2-Amino-4,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2,6-Dinitrotoluene	5	10	20	50	100	200	500	1000
2,4-Dinitrotoluene	5	10	20	50	100	200	500	1000
2-Nitrotoluene	5	10	20	50	100	200	500	1000
4-Nitrotoluene	5	10	20	50	100	200	500	1000
3-Nitrotoluene	5	10	20	50	100	200	500	1000
Picric Acid			50	100	200	500	1000	2000
Nitroglycerin			20	50	100	200	500	1000
PETN			20	50	100	200	500	1000
EGDN			20	50	100	200	500	1000

Revision Date 12/11/09

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC9 Batch ID: 03032010
Method : Method 8330 Test : SOP WS-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
03-MAR-2010	16:22	NS	8330 Primer L6	C-000001.	0 g	0 mL	1	
03-MAR-2010	17:28	NS	8330 Primer L6	C-000002.	0 g	0 mL	1	
03-MAR-2010	18:34	NS	BLANK	C-000003.	0 g	0 mL	1	
03-MAR-2010	19:39	NS	8330 10GCSV0046 ICAL L1	C-000004.	0 g	0 mL	1	
03-MAR-2010	20:45	NS	8330 10GCSV0047 ICAL L2	C-000005.	0 g	0 mL	1	
03-MAR-2010	21:50	NS	8330 10GCSV0048 ICAL L3	C-000006.	0 g	0 mL	1	
03-MAR-2010	22:56	NS	8330 10GCSV0049 ICAL L4	C-000007.	0 g	0 mL	1	
04-MAR-2010	00:01	NS	8330 10GCSV0072 ICAL L5	C-000008.	0 g	0 mL	1	
04-MAR-2010	01:07	NS	8330 09GCSV0482 ICAL L6	C-000009.	0 g	0 mL	1	
04-MAR-2010	02:12	NS	8330 10GCSV0050 ICAL L7	C-000010.	0 g	0 mL	1	
04-MAR-2010	03:18	NS	8330 10GCSV0051 ICAL L8	C-000011.	0 g	0 mL	1	
04-MAR-2010	04:23	NS	BLANK	C-000012.	0 g	0 mL	1	
04-MAR-2010	05:29	NS	8330 10GCSV0058 ICV Std L5	C-000013.	0 g	0 mL	1	
04-MAR-2010	06:34	NS	8330 10GCSV0074 MRL 5-50 ng/mL	C-000014.	0 g	0 mL	1	
04-MAR-2010	07:40	NS	8330 Primer L6	C-000015.	0 g	0 mL	1	
04-MAR-2010	08:45	NS	STD_06 09GCSV0482 8330 200-500	C-000016.	0 g	0 mL	1	

- printed before end of sequence -

MB 3/4/10

TestAmerica West Sacramento

C-000013.D

Chromatography Summary

Injection Date: 3/4/2010 5:29 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000013.D **Vial Num:** 89

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0058 ICV Std L5**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0058 ICV Std L5;2

Misc. Info: ;5;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	36.71	71	2.2820<	200	-99%	Fails	Not Spiked				200	-100%	Fails		(±15)	45
HMX	41.09	8317	212.7000<	200	6%	Acceptable					200	-100%	Fails		(±15)	45
RDX	28.26	6889	198.8000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
Picric ACID				500	-100%	Fails					500	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22.43	11978	198.5000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.59	16105	202.1000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
TETRYL	46.70	28255	203.8000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
Nitrobenzene	18.21	8024	209.3000<	200	5%	Acceptable	mm 3/4/10				200	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	38.13	9579	202.6000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
4-AM-2,6-DNT	34.10	8586	211.6000<	200	6%	Acceptable					200	-100%	Fails		(±15)	45
2-AM-4,6-DNT	33.30	12780	195.2000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	31.03	7362	198.1000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.69	12449	206.0000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
2-Nitrotoluene	25.91	7282	410.3000	400	3%	Acceptable					400	-100%	Fails		(±15)	45
4-Nitrotoluene				400	-100%	Fails					400	-100%	Fails		(±15)	
3-Nitrotoluene	26.57	5277	205.8000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
Nitroglycerin				200	-100%	Fails		44.95	10833	224.6000	200	12%	Acceptable		(±15)	45
PETN				200	-100%	Fails		49.96	49927	226.4000<	200	13%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.45	11064	201.9000	200	1%	Acceptable					200	-100%	Fails		(±15)	45
EGDN				200	-100%	Fails					200	-100%	Fails		(±15)	

ICV passes ±15%

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/4/2010 10:18 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d
Lab Smp Id: 8330 10GCSV0058 ICV
Inj Date : 04-MAR-2010 05:29
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0058 ICV Std L5;2
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:48 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 89 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
18.214	1225330	8024	0.007	5.09		13 Nitrobenzene
20.588	2568830	16105	0.006	10.22		10 1,3-Dinitrobenzene
22.432	2130639	11978	0.006	7.60		9 1,3,5-Trinitrobenze
25.909	1402778	7282	0.005	4.62		20 2-Nitrotoluene
26.570	798048	5277	0.007	3.35		22 3-Nitrotoluene
27.453	1775451	11064	0.006	7.02		11 3,5-Dinitroaniline
28.259	1043969	6889	0.007	4.37		7 RDX
29.687	2142784	12449	0.006	7.90		19 2,4-Dinitrotoluene
31.025	1329778	7362	0.006	4.67		18 2,6-Dinitrotoluene
33.300	1755367	12780	0.007	8.11		17 2-AM-4,6-DNT
34.103	1506178	8586	0.006	5.45		16 4-AM-2,6-DNT
36.049	3066	42	0.014	0.02		
36.714	12183	71	0.006	0.04	$	1 3,4-Dinitrotoluene
38.130	1790108	9579	0.005	6.08		15 2,4,6-Trinitrotolue
41.089	920683	8317	0.009	5.28		4 HMX
42.076	2672	37	0.014	0.02		
43.745	2770	22	0.008	0.01		
44.938	13732	101	0.007	0.06		
46.701	1506553	28255	0.019	18.08		12 TETRYL
47.467	14671	178	0.012	0.11		
48.332	42871	319	0.007	0.20		
48.875	32049	373	0.012	0.23		
49.047	12259	241	0.020	0.15		
49.299	18702	286	0.015	0.18		
49.965	56724	622	0.011	0.39		
50.427	14594	179	0.012	0.11		
51.437	53808	833	0.015	0.52		
52.113	13163	193	0.015	0.12		
	22189760	157444		100.000		

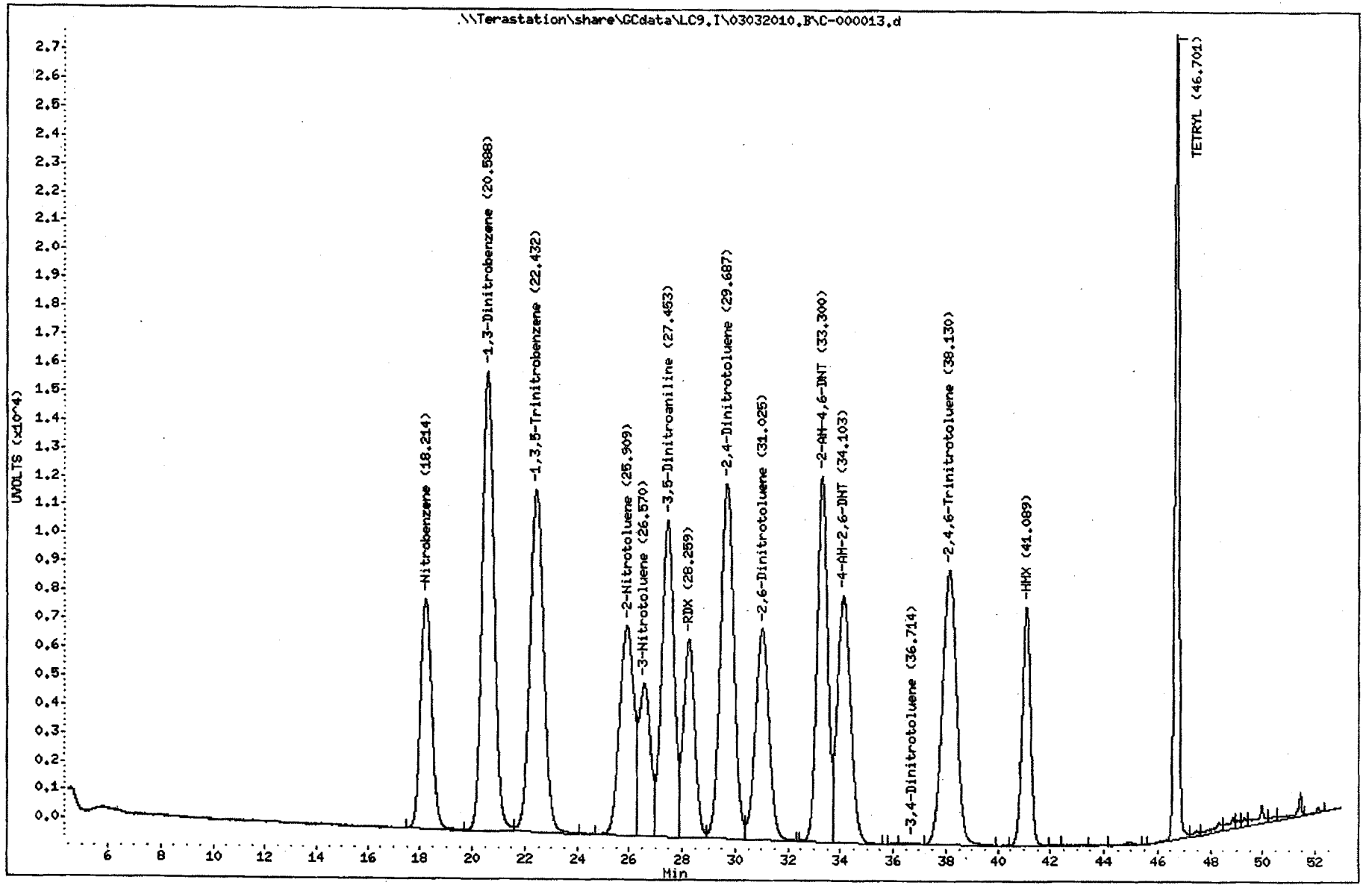
Total unknown % height = 2.120

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d
Date : 04-MAR-2010 05:29
Client ID:
Sample Info: 8330 10GCSV0058 ICV Std L5;2

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d\C-000013.
Lab Smp Id: 8330 10GCSV0058 ICV
Inj Date : 04-MAR-2010 05:29
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0058 ICV Std L5;2
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:48 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 89 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.946	1216199	10833	0.009	17.31	14 Nitroglycerin
49.294	55072	1264	0.023	2.02	
49.692	49922	532	0.011	0.85	
49.963	1366568	49927	0.037	79.82	23 PETN
	2687761	62556		100.000	

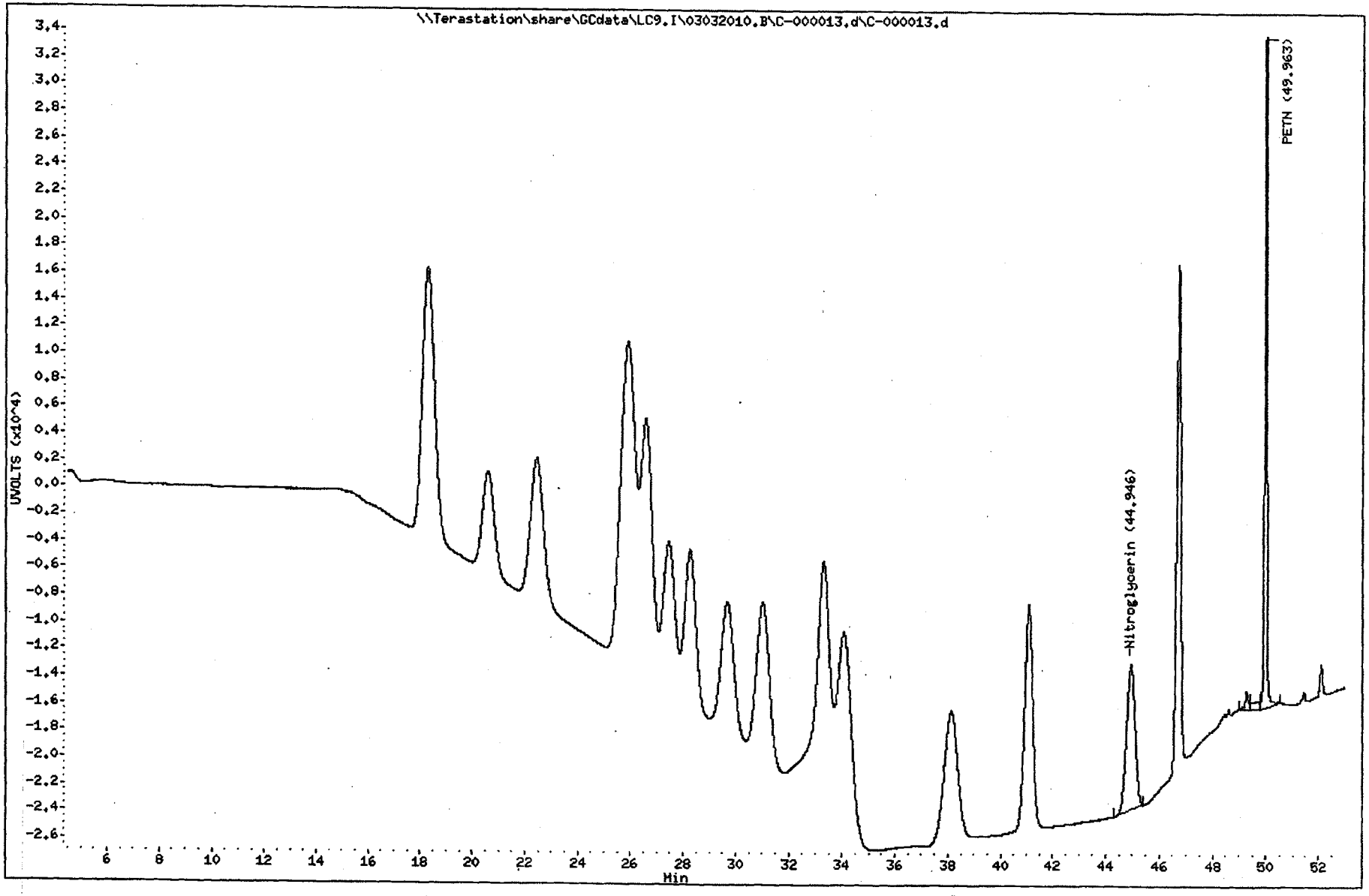
Total unknown % height = 2.870

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d\C-000013.d
Date : 04-MAR-2010 05:29
Client ID:
Sample Info: 8330 10GCSV0068 ICV Std L5;2

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

C-000014.D

Chromatography Summary

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0074 MRL 5-50 ng/mL**

Injection Date: 3/4/2010 6:34 **Operator:** NS
DataFile: LC9.I\03032010.B\C-000014.D **Vial Num:** 90
Instrument ID: LC9
Method File: LC9.I\03032010.B\8330METCNAB.M
Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**
Samp. Info: 8330 10GCSV0074 MRL 5-50 ng/mL;2
Misc. Info: ;5;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	36.72	617	19.8300<	20	-1%	Acceptable					20	-100%	Fails		(±15)	45
HMX	41.02	215	5.4980<	5	10%	Acceptable					5	-100%	Fails		(±15)	45
RDX	**28.11**	**206**	**5.9440<**	**5**	**19%**	**Fails**					5	-100%	Fails		(±15)	45
Picric ACID				**50**	**-100%**	**Fails**					50	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22.37	314	5.2030<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.52	391	4.9060<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
TETRYL	46.69	656	4.7310<	5	-5%	Acceptable					5	-100%	Fails		(±15)	45
Nitrobenzene	18.05	196	5.1120<	5	2%	Acceptable					5	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	38.08	247	5.2240<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
4-AM-2,6-DNT	33.95	359	4.3840<	5	-12%	Acceptable					5	-100%	Fails		(±15)	45
2-AM-4,6-DNT	**33.26**	**384**	**5.8670<**	**5**	**17%**	**Fails**					5	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	**30.96**	**227**	**6.1090<**	**5**	**22%**	**Fails**					5	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.57	330	5.4610<	5	9%	Acceptable					5	-100%	Fails		(±15)	45
2-Nitrotoluene	25.79	202	11.3800	10	14%	Acceptable					10	-100%	Fails		(±15)	45
4-Nitrotoluene				**5**	**-100%**	**Fails**					5	-100%	Fails		(±15)	
3-Nitrotoluene	**26.45**	**160**	**6.2400<**	**5**	**25%**	**Fails**					5	-100%	Fails		(±15)	45
Nitroglycerin				**20**	**-100%**	**Fails**		44.93	876	18.1600	20	-9%	Acceptable		(±15)	45
PETN				**20**	**-100%**	**Fails**		49.96	4561	20.6800<	20	3%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.37	300	5.4740	5	9%	Acceptable					5	-100%	Fails		(±15)	45
EGDN				**20**	**-100%**	**Fails**					20	-100%	Fails		(±15)	

MRL passes S/N 5:1
MP 3/4/10

Notes: M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 10:18 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d
Lab Smp Id: 8330 10GCSV0074 MRL
Inj Date : 04-MAR-2010 06:34
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0074 MRL 5-50 ng/mL;2
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:46 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 90 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
10.622	3056	42	0.014	0.72			
11.437	4571	28	0.006	0.48			
12.913	2533	30	0.012	0.51			
13.116	5050	44	0.009	0.75			
18.052	36006	196	0.005	3.36		13	Nitrobenzene
20.525	69630	391	0.006	6.71		10	1,3-Dinitrobenzene
22.372	62650	314	0.005	5.39		9	1,3,5-Trinitrobenze
24.067	4429	39	0.009	0.66			
24.818	3193	45	0.014	0.77			
25.788	49284	202	0.004	3.46		20	2-Nitrotoluene
26.446	20558	160	0.008	2.74		22	3-Nitrotoluene
27.370	56089	300	0.005	5.15		11	3,5-Dinitroaniline
28.115	35452	206	0.006	3.53		7	RDX
29.575	70016	330	0.005	5.66		19	2,4-Dinitrotoluene
30.956	51190	227	0.004	3.89		18	2,6-Dinitrotoluene
33.264	60328	384	0.006	6.59		17	2-AM-4,6-DNT
33.946	78460	359	0.005	6.16		16	4-AM-2,6-DNT
36.718	102431	617	0.006	10.59	$	1	3,4-Dinitrotoluene
38.082	50841	247	0.005	4.24		15	2,4,6-Trinitrotolue
40.010	3570	40	0.011	0.68			
40.458	2602	42	0.016	0.72			
41.021	27909	215	0.008	3.69		4	HMX
43.074	2520	35	0.014	0.60			
44.163	7723	36	0.005	0.61			
44.530	8205	38	0.005	0.65			
46.689	34951	656	0.019	11.42		12	TETRYL
49.291	108934	287	0.003	4.92			
49.975	25620	243	0.009	4.17			
52.138	44925	69	0.002	1.18			
	1032726	5822		100.000			

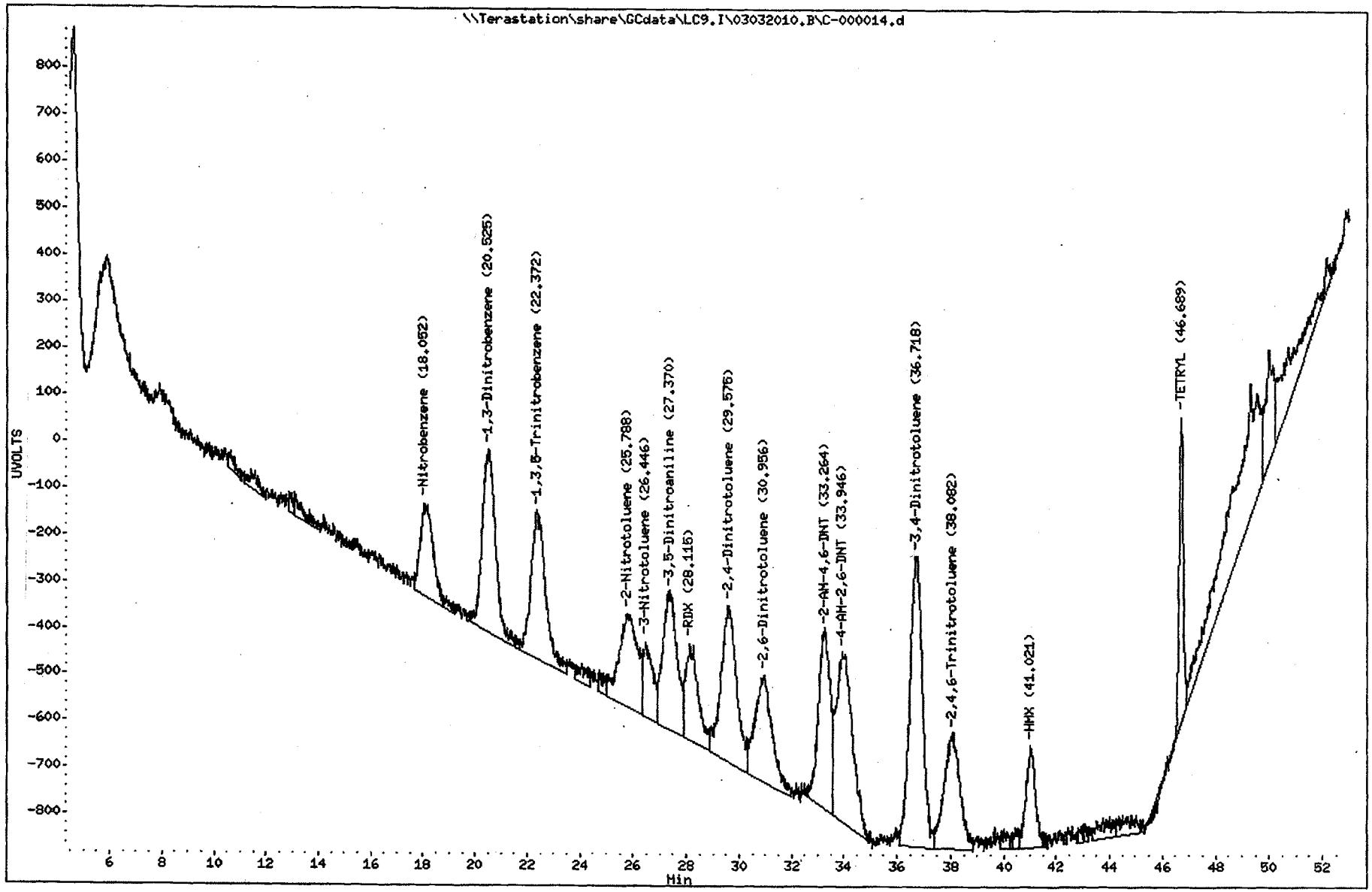
Total unknown % height = 17.42

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d
Date : 04-MAR-2010 06:34
Client ID:
Sample Info: 8330 10GCSV0074 MRL 5-50 ng/mL;2

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

C-000014.D

Chromatography Summary

Injection Date: 3/4/2010 6:34 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000014.D **Vial Num:** 90

Method 8330 Target Analyte Results

Instrument ID: LC9

Sample : 8330 10GCSV0074 MRL 5-50 ng/mL

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0074 MRL 5-50 ng/mL;2

Misc. Info: ;5;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	36.72	617	19.8300<	20	-1%	Acceptable					20	-100%	Fails		(±15)	45
HMX	41.02	215	5.4980<	5	10%	Acceptable					5	-100%	Fails		(±15)	45
RDX	28.11	206	5.9440<	5	19%	Fails					5	-100%	Fails		(±15)	45
Picric ACID				50	-100%	Fails					50	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22.37	314	5.2030<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.52	391	4.9060<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
TETRYL	46.69	656	4.7310<	5	-5%	Acceptable					5	-100%	Fails		(±15)	45
Nitrobenzene	18.05	196	5.1120<	5	2%	Acceptable					5	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	38.08	247	5.2240<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
4-AM-2,6-DNT	33.95	359	7.9490<	5	59%	Fails					5	-100%	Fails		(±15)	45
2-AM-4,6-DNT	33.26	384	5.8670<	5	17%	Fails					5	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	30.96	227	6.1090<	5	22%	Fails					5	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.57	330	5.4610<	5	9%	Acceptable					5	-100%	Fails		(±15)	45
2-Nitrotoluene	25.79	202	11.3800	10	14%	Acceptable					10	-100%	Fails		(±15)	45
4-Nitrotoluene				5	-100%	Fails					5	-100%	Fails		(±15)	
3-Nitrotoluene	26.45	160	6.2400<	5	25%	Fails					5	-100%	Fails		(±15)	45
Nitroglycerin				20	-100%	Fails		44.93	876	18.1600	20	-9%	Acceptable		(±15)	45
PETN				20	-100%	Fails		49.96	4561	20.6800<	20	3%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.37	300	5.4740	5	9%	Acceptable					5	-100%	Fails		(±15)	45
EGDN				20	-100%	Fails					20	-100%	Fails		(±15)	

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d\C-000014.
Lab Smp Id: 8330 10GCSV0074 MRL
Inj Date : 04-MAR-2010 06:34
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0074 MRL 5-50 ng/mL;2
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:46 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 90 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.929	90003	876	0.010	11.79	14 Nitroglycerin
49.286	64463	1635	0.025	22.00	
49.620	35337	357	0.010	4.80	
49.960	160510	4561	0.028	61.41	23 PETN
	350312	7429		100.000	

Total unknown % height = 26.80

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d\C-000014.d

Date : 04-MAR-2010 06:34

Client ID:

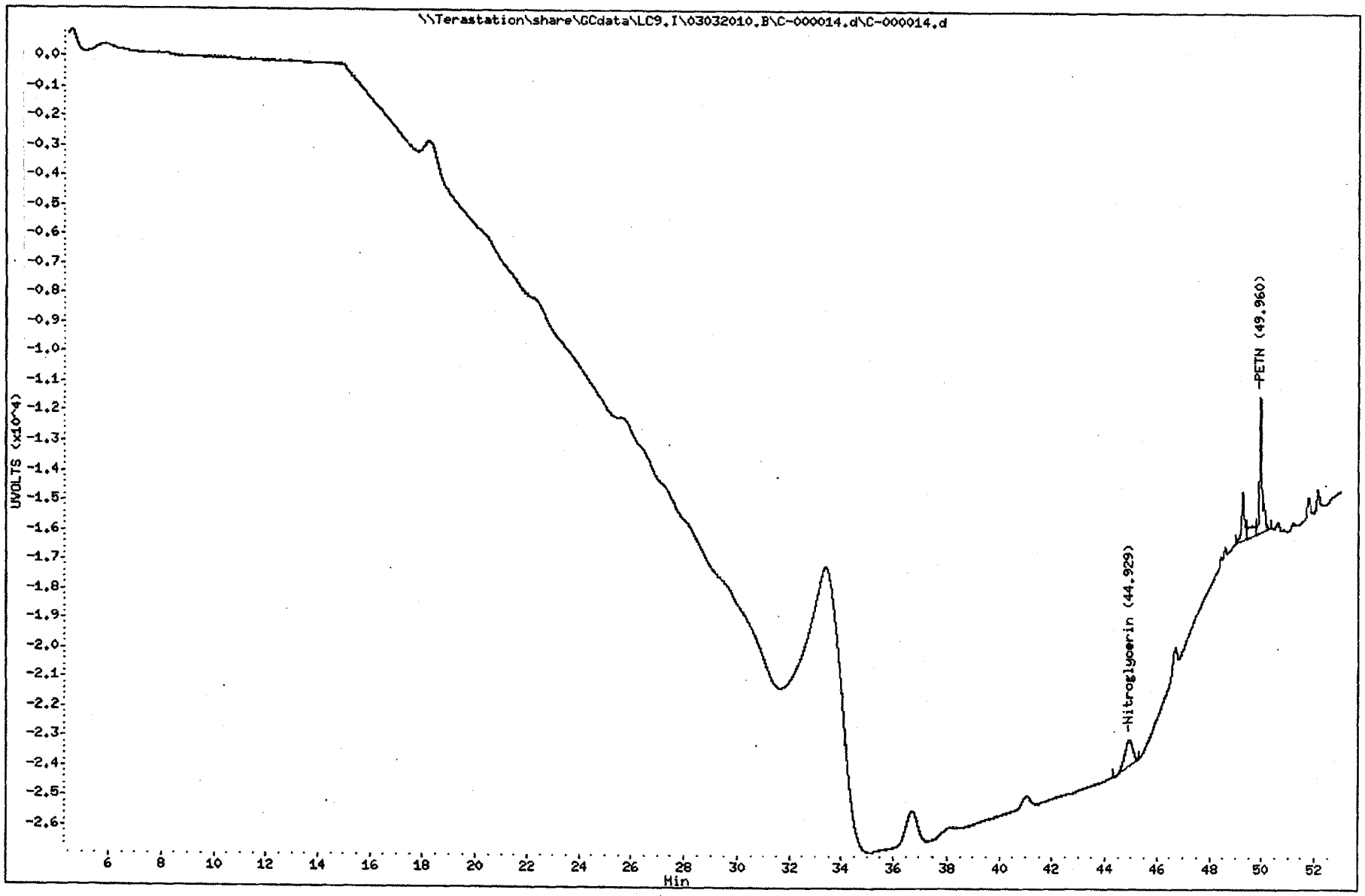
Instrument: LC9.i

Sample Info: 8330 10GCSV0074 MRL 5-50 ng/mL;2

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000004.D

Chromatography Summary

Injection Date: 3/3/2010 19:39 Operator: NS

DataFile: LC9.I\03032010.B\C-000004.D Vial Num: 81

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0046 ICAL L1**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 End Cal Date: 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: 8330 10GCSV0046 ICAL L1;1

Misc. Info: ;1;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene			5		0			5		0
HMX	41.06	210	5		42			5		0
RDX	28.20	192	5		38.4			5		0
Picric ACID			10		0			10		0
1,3,5-Trinitrobenzene	22.42	324	5		64.8			5		0
1,3-Dinitrobenzene	20.56	433	5		86.6			5		0
TETRYL	46.70	692	5		138.4			5		0
Nitrobenzene	18.15	193	5		38.6			5		0
2,4,6-Trinitrotoluene	38.11	252	5		50.4			5		0
4-AM-2,6-DNT	33.99	378	5		75.6			5		0
2-AM-4,6-DNT	33.20	416	5		83.2			5		0
2,6-Dinitrotoluene	30.90	209	5		41.8			5		0
2,4-Dinitrotoluene	29.64	322	5		64.4			5		0
2-Nitrotoluene	25.84	171	10		17.1			10		0
4-Nitrotoluene			10		0			10		0
3-Nitrotoluene	26.49	125	5		25			5		0
Nitroglycerin			5		0			5		0
PETN			5		0			5		0
3,5-Dinitroaniline	27.41	298	5		59.6			5		0
EGDN			5		0			5		0

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000004.d
Lab Smp Id: 8330 10GCSV0046 ICA
Inj Date : 03-MAR-2010 19:39
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0046 ICAL L1;1
Misc Info : ;1;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:27 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 19:39 Cal File: C-000004.d
Als bottle: 81 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.148	29023	193	0.007	3.53	13 Nitrobenzene
20.559	70366	433	0.006	7.93	10 1,3-Dinitrobenzene
22.418	59883	324	0.005	5.94	9 1,3,5-Trinitrobenze
25.836	32084	171	0.005	3.13	20 2-Nitrotoluene
26.489	18910	125	0.007	2.29	22 3-Nitrotoluene
27.409	48442	298	0.006	5.46	11 3,5-Dinitroaniline
28.202	30296	192	0.006	3.52	7 RDX
29.644	56871	322	0.006	5.90	19 2,4-Dinitrotoluene
30.900	39136	209	0.005	3.83	18 2,6-Dinitrotoluene
33.205	63148	416	0.007	7.62	17 2-AM-4,6-DNT
33.987	76349	378	0.005	6.93	16 4-AM-2,6-DNT
36.481	6510	32	0.005	0.58	
38.113	52174	252	0.005	4.62	15 2,4,6-Trinitrotolue
41.057	23319	210	0.009	3.85	4 HMX
43.859	3582	24	0.007	0.44	
44.757	2831	28	0.010	0.51	
46.700	30168	692	0.023	12.76	12 TETRYL
48.613	47412	210	0.004	3.85	
49.300	40301	291	0.007	5.33	
49.519	7909	212	0.027	3.88	
49.745	11425	173	0.015	3.17	
49.999	20527	221	0.011	4.05	
52.141	38380	48	0.001	0.88	
	809048	5454		100.000	

Total unknown % height = 22.69

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000004.d

Date : 03-MAR-2010 19:39

Client ID:

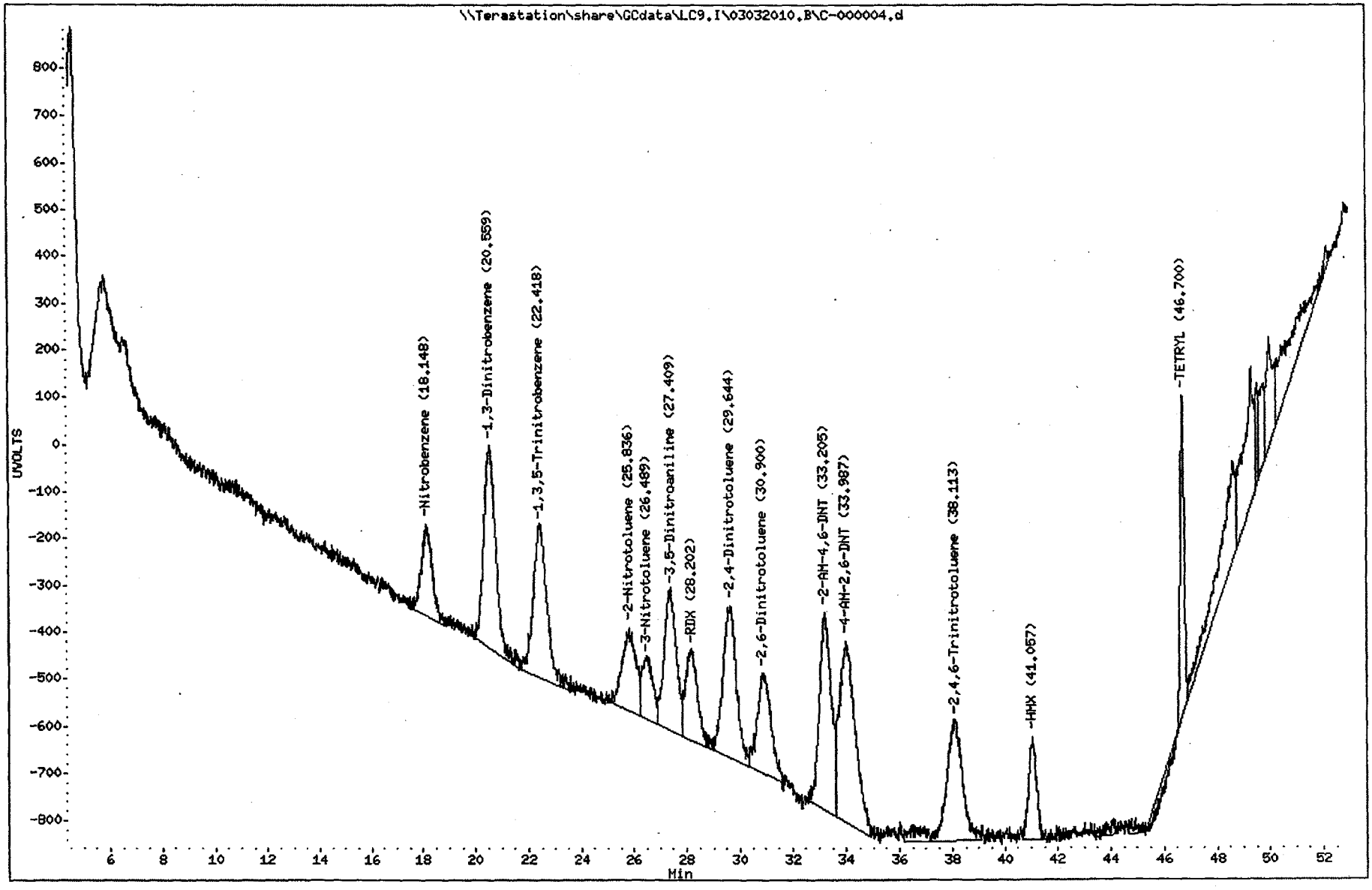
Instrument: LC9.i

Sample Info: 8330 10GCSV0046 ICAL L1;1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000004.d\C-000004.
Lab Smp Id: 8330 10GCSV0046 ICA
Inj Date : 03-MAR-2010 19:39
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0046 ICAL L1;1
Misc Info : ;1;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:21 shafern Quant Type: AREA%
Cal Date : Cal File:
Als bottle: 81 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
49.297	43327	1544	0.036	96.02	
49.696	5322	64	0.012	3.98	
	48649	1608		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000004.d\C-000004.d

Date : 03-MAR-2010 19:39

Client ID:

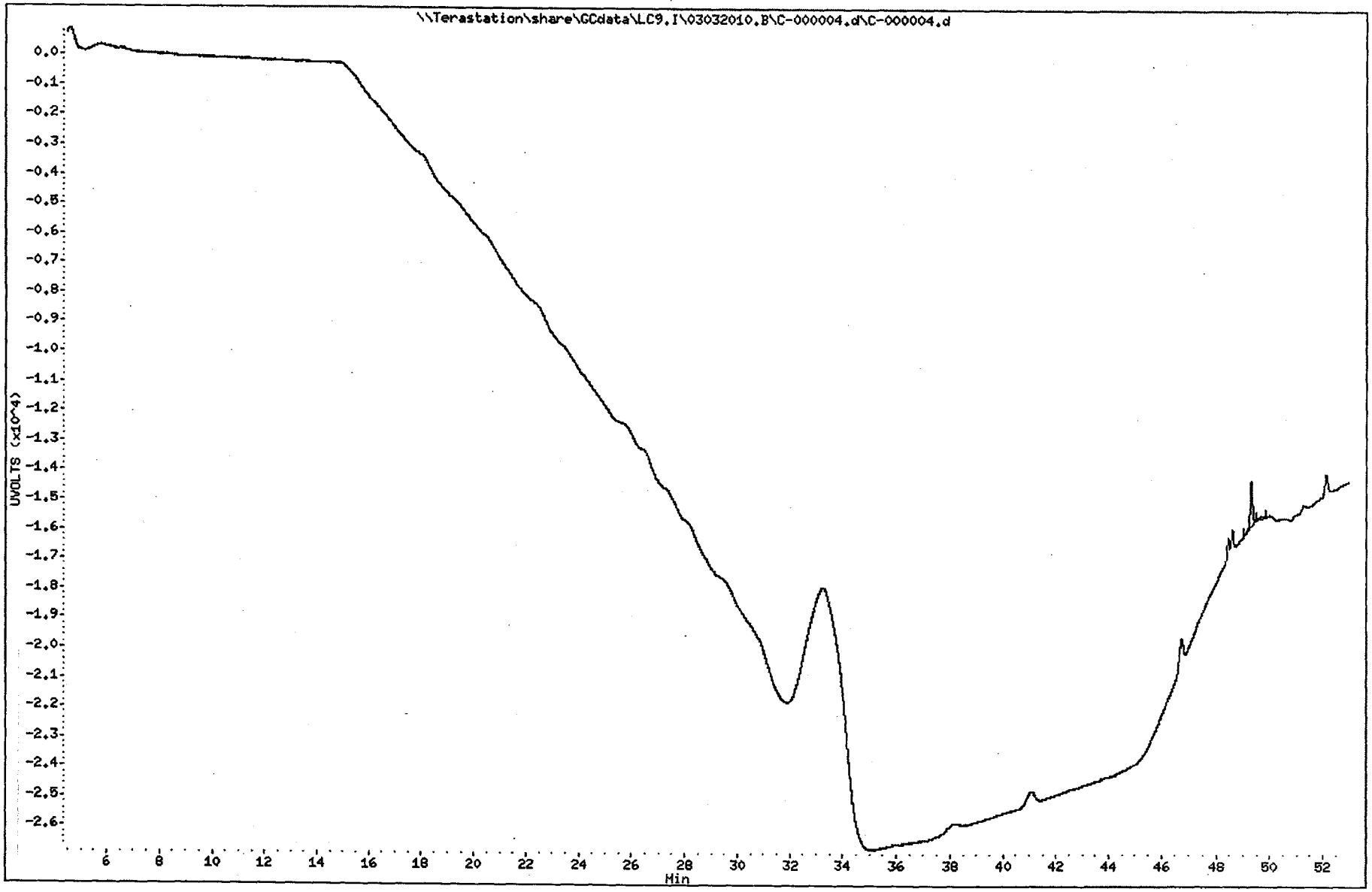
Instrument: LC9.i

Sample Info: 8330 10GCSV0046 ICAL L1:1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000005.D

Chromatography Summary

Injection Date: 3/3/2010 20:45 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000005.D **Vial Num:** 82

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample: 8330 10GCSV0047 ICAL L2

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/3/2010 20:45

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0047 ICAL L2:1

Misc. Info: ;2;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.83	339	10		33.9			10		0
HMX	41.17	420	10		42			10		0
RDX	28.19	371	10		37.1			10		0
Picric ACID			20		0			20		0
1,3,5-Trinitrobenzene	22.41	629	10		62.9			10		0
1,3-Dinitrobenzene	20.53	849	10		84.9			10		0
TETRYL	46.74	1438	10		143.8			10		0
Nitrobenzene	18.16	407	10		40.7			10		0
2,4,6-Trinitrotoluene	38.17	485	10		48.5			10		0
4-AM-2,6-DNT	34.05	578	10		57.8			10		0
2-AM-4,6-DNT	33.28	709	10		70.9			10		0
2,6-Dinitrotoluene	30.98	409	10		40.9			10		0
2,4-Dinitrotoluene	29.63	637	10		63.7			10		0
2-Nitrotoluene	25.82	380	20		19			20		0
4-Nitrotoluene			20		0			20		0
3-Nitrotoluene	26.53	279	10		27.9			10		0
Nitroglycerin			10		0	45.06	379	10		37.9
PETN			10		0	49.98	2342	10		234.2
3,5-Dinitroaniline	27.37	576	10		57.6			10		0
EGDN			10		0			10		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

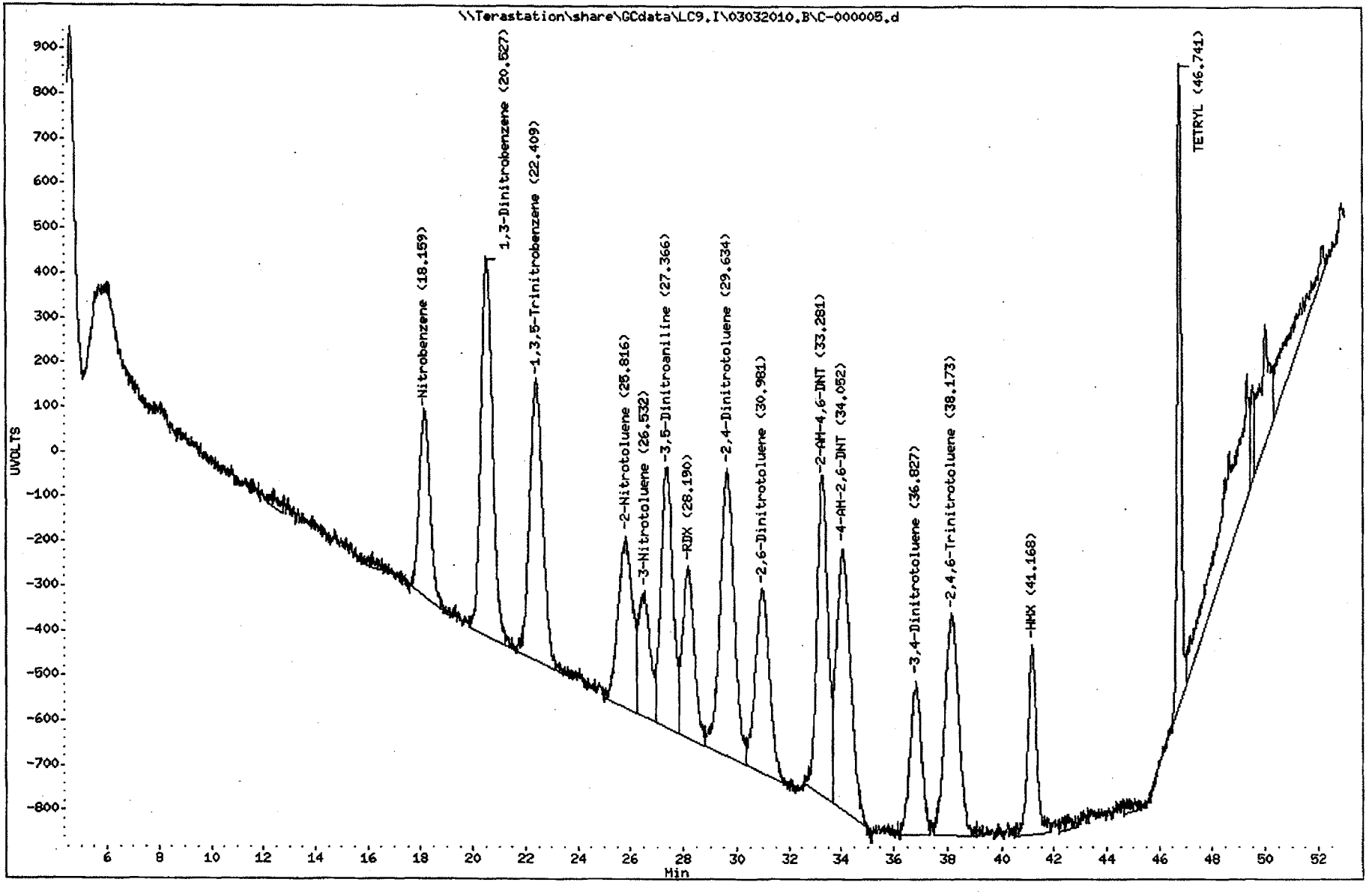
Printed: 3/4/2010 9:29 AM

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000005.d
Date : 03-MAR-2010 20:45
Client ID:
Sample Info: 8330 10GCSV0047 ICAL L2:1

Instrument: LC9.i

Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000005.d\C-000005.
Lab Smp Id: 8330 10GCSV0047 ICA
Inj Date : 03-MAR-2010 20:45
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0047 ICAL L2;1
Misc Info : ;2;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:28 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 20:45 Cal File: C-000005.d
Als bottle: 82 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
45.057	34366	379	0.011	13.40	14 Nitroglycerin
49.683	10242	107	0.010	3.78	
49.977	70429	2342	0.033	82.82	23 PETN
	115036	2828		100.000	

Total unknown % height = 3.780

Data File: \\Terastation\share\GCdata\LC9,I\03032010,B\C-000005,d\C-000005,d

Date : 03-MAR-2010 20:45

Client ID:

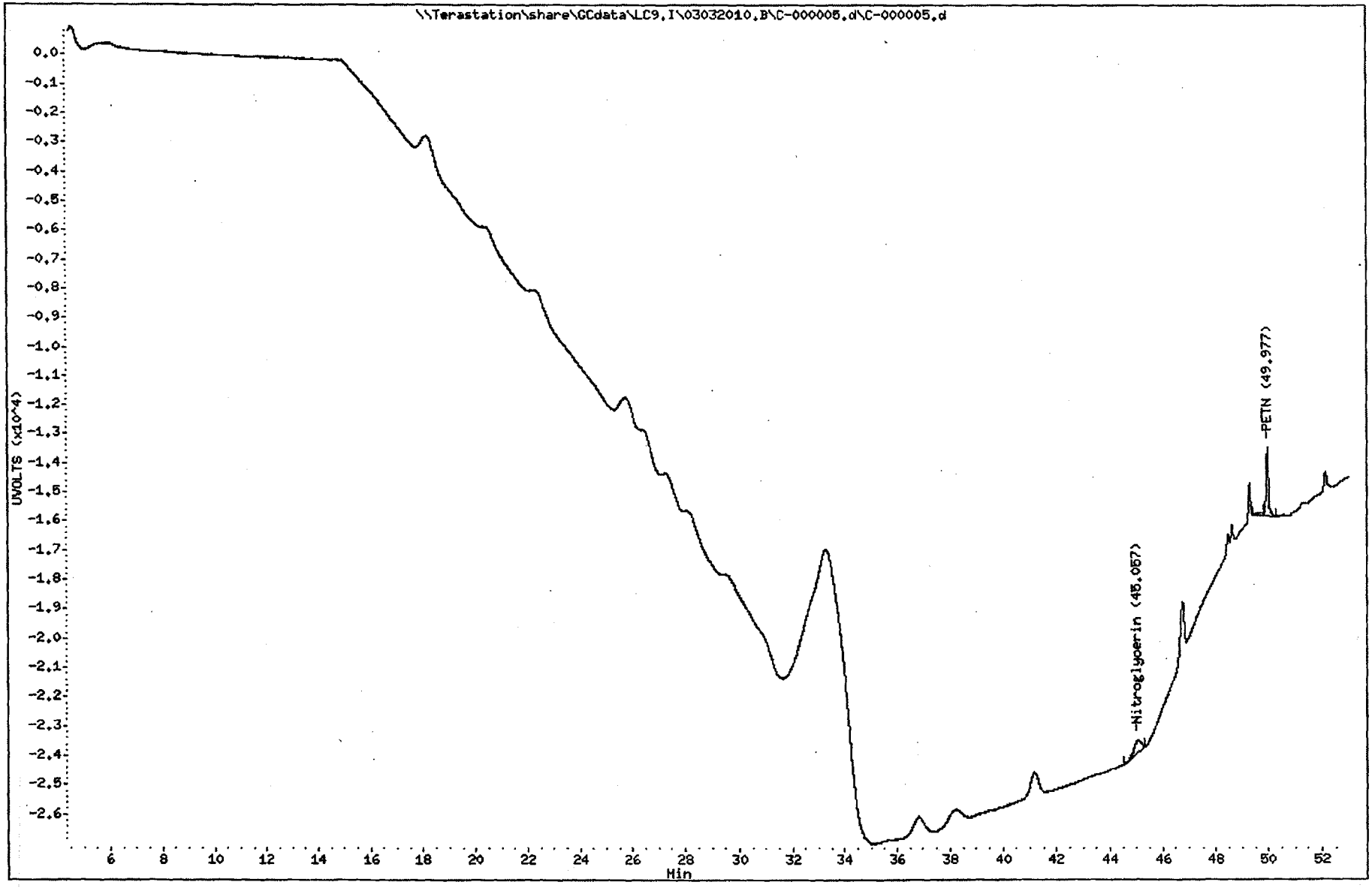
Instrument: LC9,i

Sample Info: 8330 10GCSV0047 ICAL L2;1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000006.D

Chromatography Summary

Injection Date: 3/3/2010 21:50 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000006.D **Vial Num:** 83

Method 8330 Target Analyte Results

Instrument ID: LC9

Sample : 8330 10GCSV0048 ICAL L3

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/3/2010 21:50

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0048 ICAL L3;1

Misc. Info: ;3;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.65	593	20		29.65			20		0
HMX	41.03	791	20		39.55			20		0
RDX	28.09	762	20		38.1			20		0
Picric ACID			50		0			50		0
1,3,5-Trinitrobenzene	22.38	1262	20		63.1			20		0
1,3-Dinitrobenzene	20.50	1681	20		84.05			20		0
TETRYL	46.69	2767	20		138.35			20		0
Nitrobenzene	18.12	839	20		41.95			20		0
2,4,6-Trinitrotoluene	38.04	942	20		47.1			20		0
4-AM-2,6-DNT	33.91	1082	20		54.1			20		0
2-AM-4,6-DNT	33.15	1396	20		69.8			20		0
2,6-Dinitrotoluene	30.83	803	20		40.15			20		0
2,4-Dinitrotoluene	29.52	1293	20		64.65			20		0
2-Nitrotoluene	25.73	790	40		19.75			40		0
4-Nitrotoluene			40		0			40		0
3-Nitrotoluene	26.41	571	20		28.55			20		0
Nitroglycerin			20		0	44.95	886	20		44.3
PETN			20		0	49.95	4631	20		231.55
3,5-Dinitroaniline	27.29	1174	20		58.7			20		0
EGDN			20		0			20		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 9:30 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000006.d
Lab Smp Id: 8330 10GCSV0048 ICA
Inj Date : 03-MAR-2010 21:50
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0048 ICAL L3;1
Misc Info : ;3;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:30 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 21:50 Cal File: C-000006.d
Als bottle: 83 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
18.117	129021	839	0.007	4.70		13 Nitrobenzene
20.498	268511	1681	0.006	9.41		10 1,3-Dinitrobenzene
22.376	228829	1262	0.006	7.07		9 1,3,5-Trinitrobenze
25.732	158561	790	0.005	4.42		20 2-Nitrotoluene
26.408	83656	571	0.007	3.19		22 3-Nitrotoluene
27.290	186713	1174	0.006	6.57		11 3,5-Dinitroaniline
28.086	121299	762	0.006	4.26		7 RDX
29.522	229841	1293	0.006	7.24		19 2,4-Dinitrotoluene
30.834	152110	803	0.005	4.49		18 2,6-Dinitrotoluene
33.148	189379	1396	0.007	7.82		17 2-AM-4,6-DNT
33.906	189150	1082	0.006	6.06		16 4-AM-2,6-DNT
36.648	92596	593	0.006	3.32	$	1 3,4-Dinitrotoluene
38.037	177686	942	0.005	5.27		15 2,4,6-Trinitrotolue
41.028	89282	791	0.009	4.43		4 HMX
42.442	3085	29	0.009	0.16		
43.917	6922	37	0.005	0.20		
44.586	3744	47	0.013	0.26		
44.825	3924	44	0.011	0.24		
46.689	140453	2767	0.020	15.61		12 TETRYL
48.611	51429	210	0.004	1.17		
49.283	39296	281	0.007	1.57		
49.979	59099	400	0.007	2.24		
52.124	35342	54	0.002	0.30		
	2639927	17848		100.000		

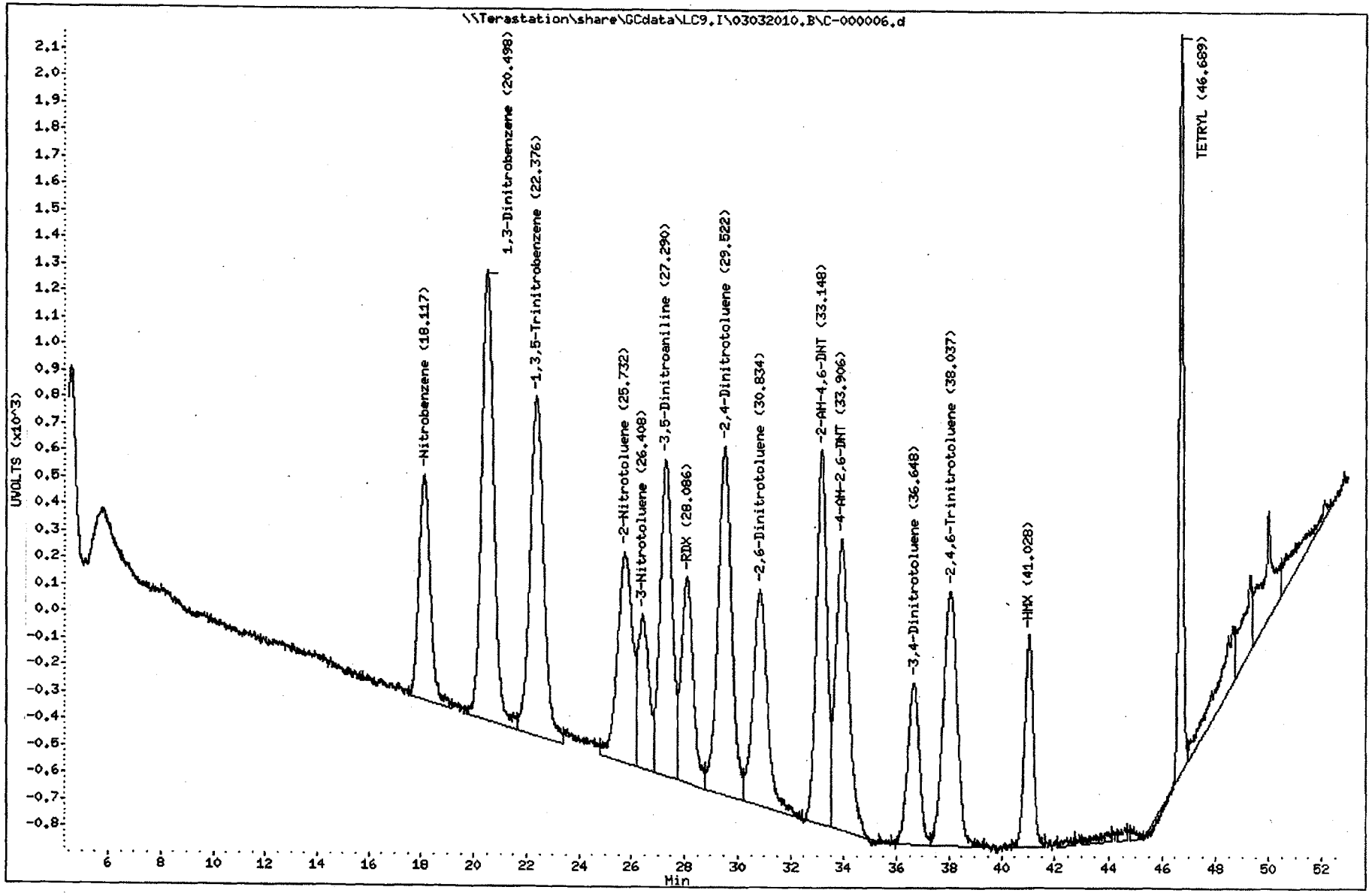
Total unknown % height = 6.140

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000006.d
Date : 03-MAR-2010 21:50
Client ID:
Sample Info: 8330 10GCSV0048 ICAL L3;1

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000006.d\C-000006.
Lab Smp Id: 8330 10GCSV0048 ICA
Inj Date : 03-MAR-2010 21:50
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0048 ICAL L3;1
Misc Info : ;3;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:30 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 21:50 Cal File: C-000006.d
Als bottle: 83 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.949	92753	886	0.010	11.70	14 Nitroglycerin
49.282	63125	1677	0.027	22.15	
49.681	39696	375	0.009	4.95	
49.955	147649	4631	0.031	61.20	23 PETN
	343223	7569		100.000	

Total unknown % height = 27.10

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000006.d\C-000006.d

Page 2

Date : 03-MAR-2010 21:50

Client ID:

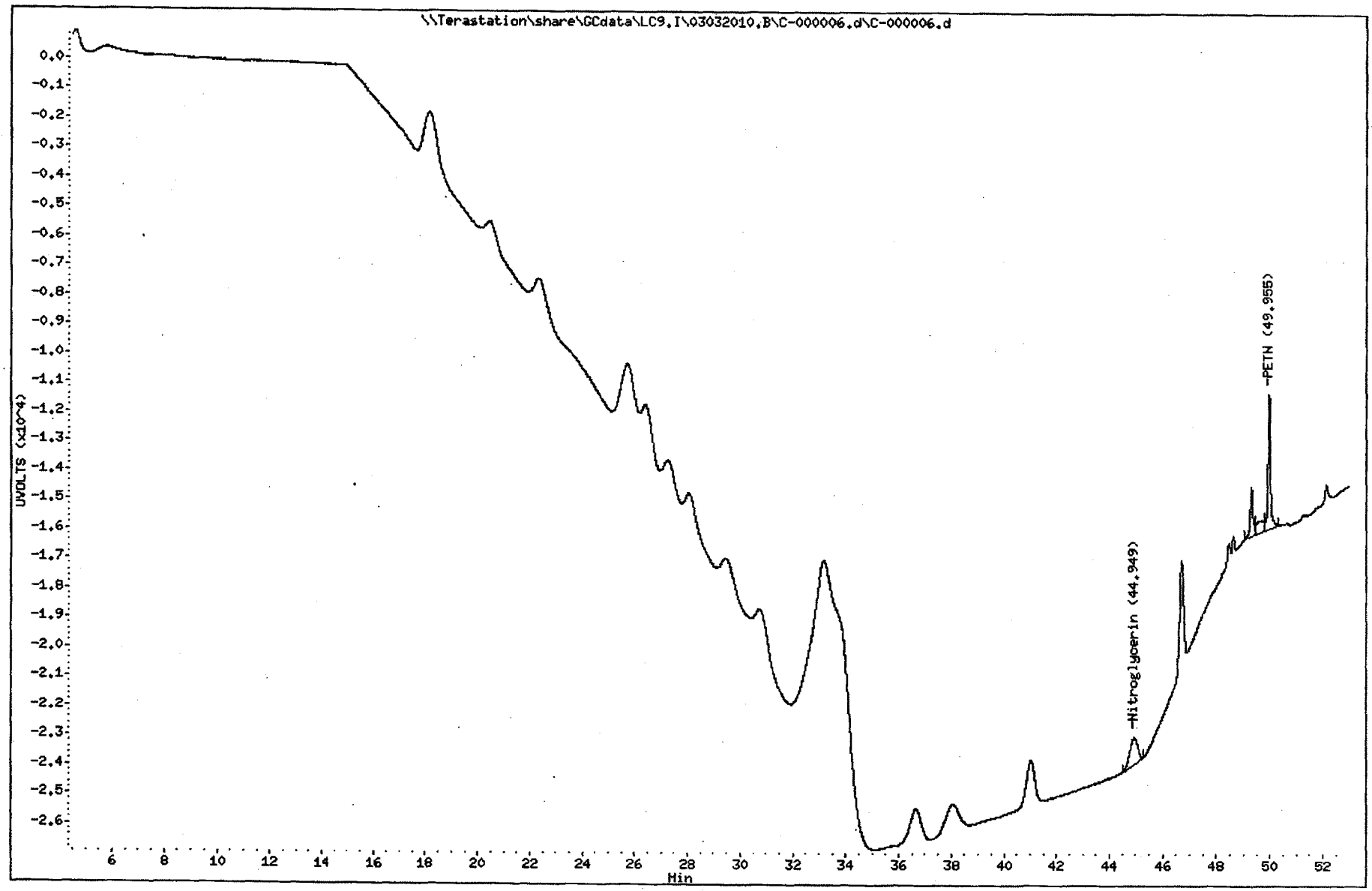
Instrument: LC9.i

Sample Info: 8330 10GCSV0048 ICAL L3;1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000007.D

Chromatography Summary

Injection Date: 3/3/2010 22:56 Operator: NS

DataFile: LC9.I\03032010.B\C-000007.D Vial Num: 84

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0049 ICAL L4**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 End Cal Date: 3/3/2010 22:56

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: 8330 10GCSV0049 ICAL L4;1

Misc. Info: ;4;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.88	1574	50		31.48			50		0
HMX	41.16	2015	50		40.3 ✓			50		0
RDX	28.27	1779	50		35.58			50		0
Picric ACID			100		0			100		0
1,3,5-Trinitrobenzene	22.45	3087	50		61.74			50		0
1,3-Dinitrobenzene	20.57	4123	50		82.46			50		0
TETRYL	46.73	7092	50		141.84			50		0
Nitrobenzene	18.17	2032	50		40.64			50		0
2,4,6-Trinitrotoluene	38.23	2443	50		48.86			50		0
4-AM-2,6-DNT	34.19	2205	50		44.1			50		0
2-AM-4,6-DNT	33.35	3219	50		64.38			50		0
2,6-Dinitrotoluene	31.07	1859	50		37.18			50		0
2,4-Dinitrotoluene	29.72	3088	50		61.76			50		0
2-Nitrotoluene	25.91	1829	100		18.29			100		0
4-Nitrotoluene			100		0			100		0
3-Nitrotoluene	26.58	✓ 1321	50		26.42			50		0
Nitroglycerin			50		0	45.03	2360	50		47.2
PETN			50		0	49.97	✓11011	50		220.22
3,5-Dinitroaniline	27.46	2833	50		56.66			50		0
EGDN			50		0			50		0

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d
Lab Smp Id: 8330 10GCSV0049 ICA
Inj Date : 03-MAR-2010 22:56
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0049 ICAL L4;1
Misc Info : ;4;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:33 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 22:56 Cal File: C-000007.d
Als bottle: 84 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

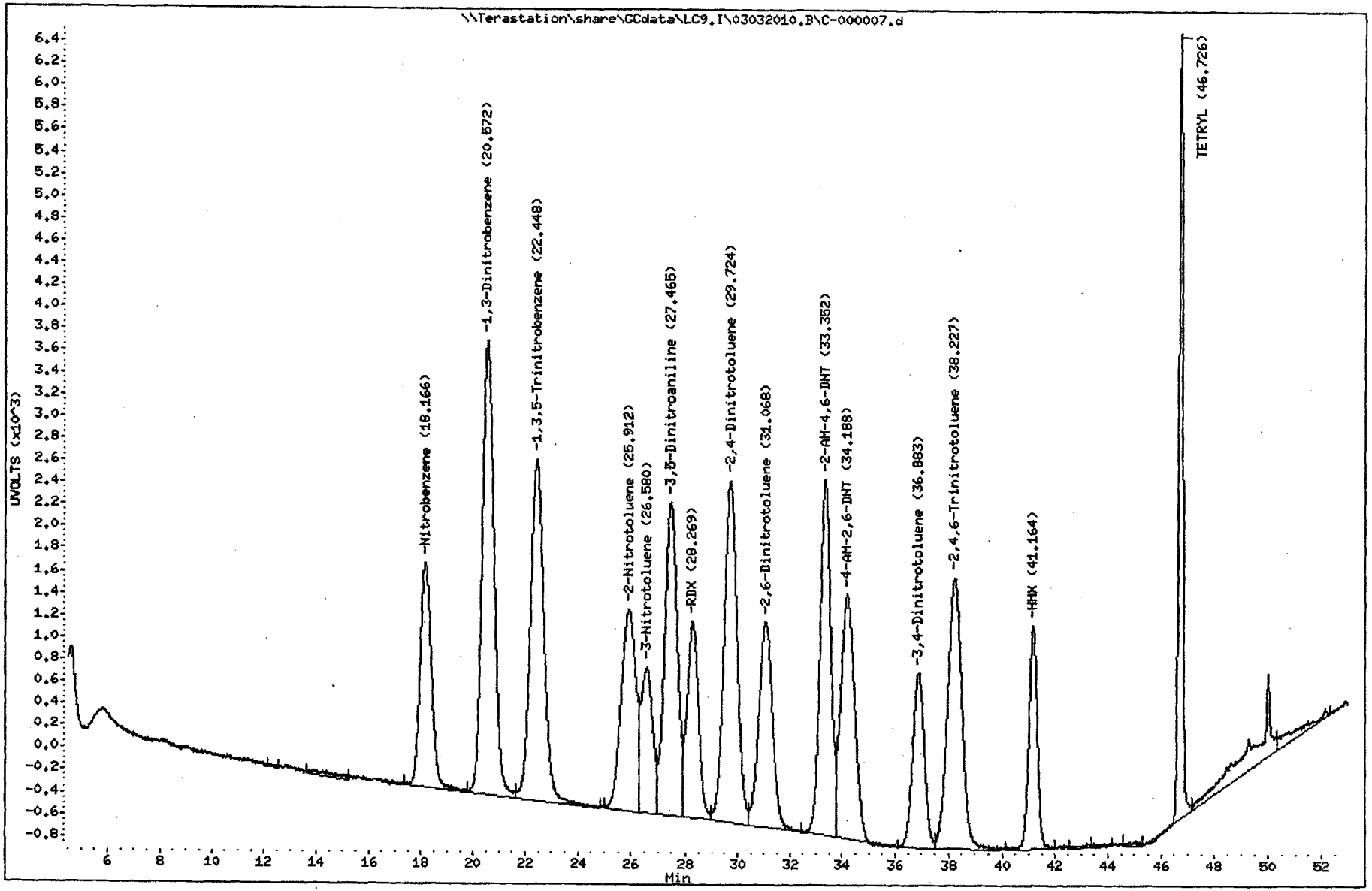
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
12.282	2536	36	0.014	0.08		
13.734	14472	44	0.003	0.10		
18.166	314059	2032	0.006	4.89	13	Nitrobenzene
20.572	655705	4123	0.006	9.94	10	1,3-Dinitrobenzene
22.448	553641	3087	0.006	7.44	9	1,3,5-Trinitrobenze
25.912	354861	1829	0.005	4.41	20	2-Nitrotoluene
26.580	199074	1321	0.007	3.18	22	3-Nitrotoluene
27.465	453384	2833	0.006	6.83	11	3,5-Dinitroaniline
28.269	271619	1779	0.007	4.28	7	RDX
29.724	539071	3088	0.006	7.44	19	2,4-Dinitrotoluene
31.068	335129	1859	0.006	4.48	18	2,6-Dinitrotoluene
33.352	458390	3219	0.007	7.76	17	2-AM-4,6-DNT
34.188	400313	2205	0.006	5.31	16	4-AM-2,6-DNT
36.883	238076	1574	0.007	3.79	$ 1	3,4-Dinitrotoluene
38.227	455092	2443	0.005	5.89	15	2,4,6-Trinitrotolue
41.164	223544	2015	0.009	4.85	4	HMX
43.245	3868	19	0.005	0.04		
43.627	3994	25	0.006	0.06		
45.016	4763	38	0.008	0.09		
46.726	358819	7092	0.020	17.20	12	TETRYL
49.991	142283	745	0.005	1.79		
52.159	38118	64	0.002	0.15		
	6020811	41470		100.000		

Total unknown % height = 2.310

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d
Date : 03-MAR-2010 22:56
Client ID:
Sample Info: 8330 10GCSV0049 ICAL L4:1

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d\C-000007.
Lab Smp Id: 8330 10GCSV0049 ICA
Inj Date : 03-MAR-2010 22:56
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0049 ICAL L4;1
Misc Info : ;4;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:33 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 22:56 Cal File: C-000007.d
Als bottle: 84 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
45.032	248224	2360	0.010	15.38	14 Nitroglycerin
49.292	63920	1605	0.025	10.46	
49.648	35147	363	0.010	2.36	
49.966	319255	11011	0.034	71.80	23 PETN
	666545	15339		100.000	

Total unknown % height = 12.82

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d\C-000007.d

Date : 03-MAR-2010 22:56

Client ID:

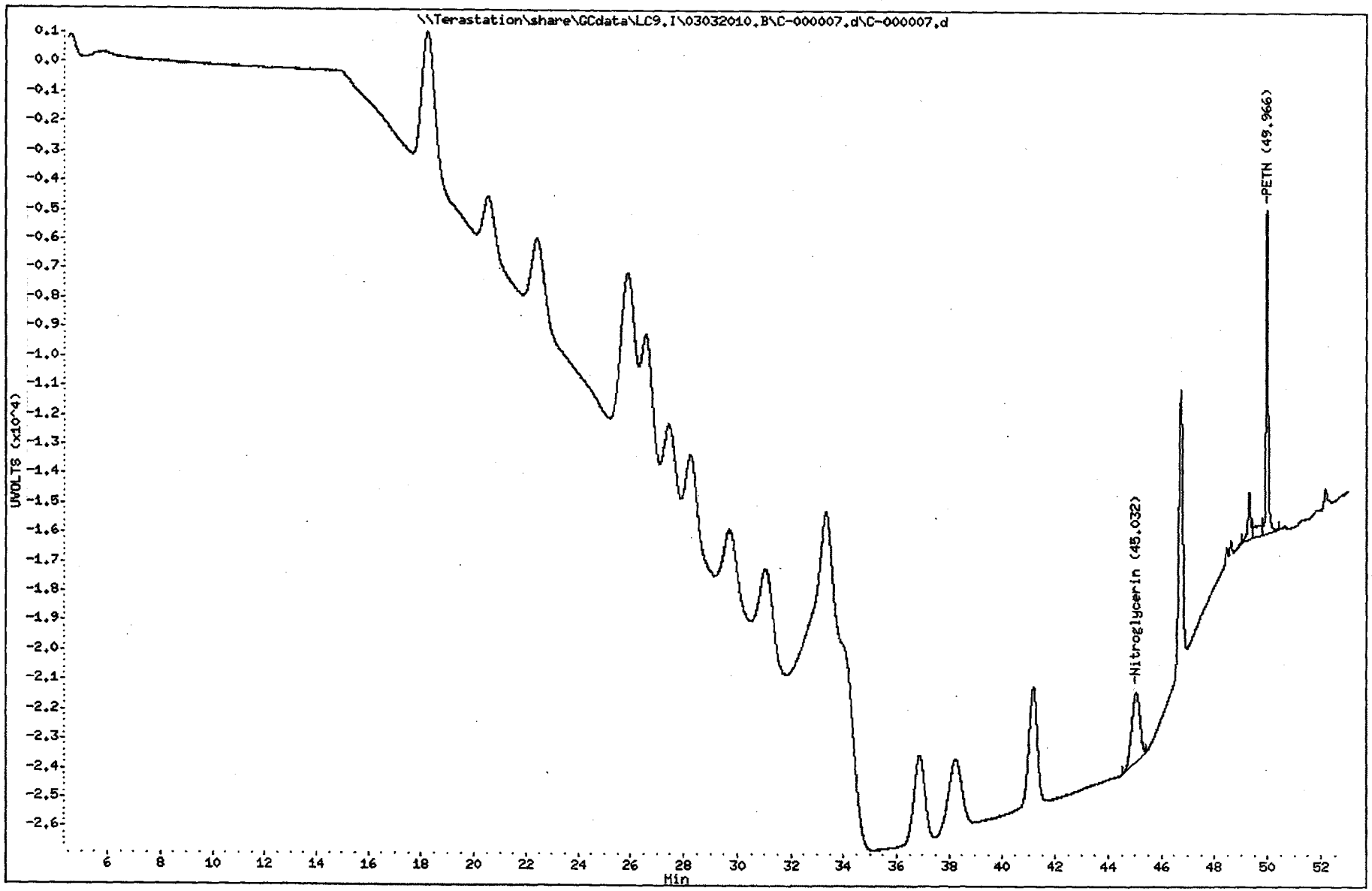
Instrument: LC9.i

Sample Info: 8330 10GCSV0049 ICAL L4;1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000008.D

Chromatography Summary

Injection Date: 3/4/2010 0:01 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000008.D **Vial Num:** 85

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : 8330 10GCSV0072 ICAL L5

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 0:01

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0072 ICAL L5;1

Misc. Info: ;5;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.96	3227	100		32.27			100		0
HMX	41.25	3838	100		38.38			100		0
RDX	28.31	3431	100		34.31			100		0
Picric ACID			200		0			200		0
1,3,5-Trinitrobenzene	22.46	5917	100		59.17			100		0
1,3-Dinitrobenzene	20.60	7938	100		79.38			100		0
TETRYL	46.76	13313	100		133.13			100		0
Nitrobenzene	18.20	3922	100		39.22			100		0
2,4,6-Trinitrotoluene	38.29	4577	100		45.77			100		0
4-AM-2,6-DNT	34.27	3964	100		39.64			100		0
2-AM-4,6-DNT	33.42	6105	100		61.05			100		0
2,6-Dinitrotoluene	31.09	3566	100		35.66			100		0
2,4-Dinitrotoluene	29.74	5969	100		59.69			100		0
2-Nitrotoluene	25.95	3491	200		17.455			200		0
4-Nitrotoluene			200		0			200		0
3-Nitrotoluene	26.62	2517	100		25.17			100		0
Nitroglycerin			100		0	45.10	4856	100		48.56
PETN			100		0	49.97	21845	100		218.45
3,5-Dinitroaniline	27.50	5448	100		54.48			100		0
EGDN			100		0			100		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d
Lab Smp Id: 8330 10GCSV0072 ICA
Inj Date : 04-MAR-2010 00:01
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0072 ICAL L5;1
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:34 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 00:01 Cal File: C-000008.d
Als bottle: 85 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
14.354	4225	32	0.008	0.04			
18.203	592041	3922	0.007	4.94		13	Nitrobenzene
20.601	1244368	7938	0.006	10.00		10	1,3-Dinitrobenzene
22.462	1045204	5917	0.006	7.45		9	1,3,5-Trinitrobenze
25.952	666057	3491	0.005	4.39		20	2-Nitrotoluene
26.621	381314	2517	0.007	3.17		22	3-Nitrotoluene
27.503	860833	5448	0.006	6.86		11	3,5-Dinitroaniline
28.306	514187	3431	0.007	4.32		7	RDX
29.737	1031163	5969	0.006	7.52		19	2,4-Dinitrotoluene
31.089	644666	3566	0.006	4.49		18	2,6-Dinitrotoluene
33.418	857326	6105	0.007	7.69		17	2-AM-4,6-DNT
34.272	738904	3964	0.005	4.99		16	4-AM-2,6-DNT
36.962	485434	3227	0.007	4.06	$	1	3,4-Dinitrotoluene
38.289	849042	4577	0.005	5.76		15	2,4,6-Trinitrotolue
41.251	420671	3838	0.009	4.83		4	HMX
45.184	6081	46	0.008	0.05			
46.760	684679	13313	0.019	16.88		12	TETRYL
49.490	105618	231	0.002	0.29			
49.659	9639	195	0.020	0.24			
49.990	61160	1356	0.022	1.70			
50.736	20768	110	0.005	0.13			
51.440	16172	121	0.007	0.15			
52.148	7949	43	0.005	0.05			
	11247502	79357		100.000			

Total unknown % height = 2.650

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d

Date : 04-MAR-2010 00:01

Client ID:

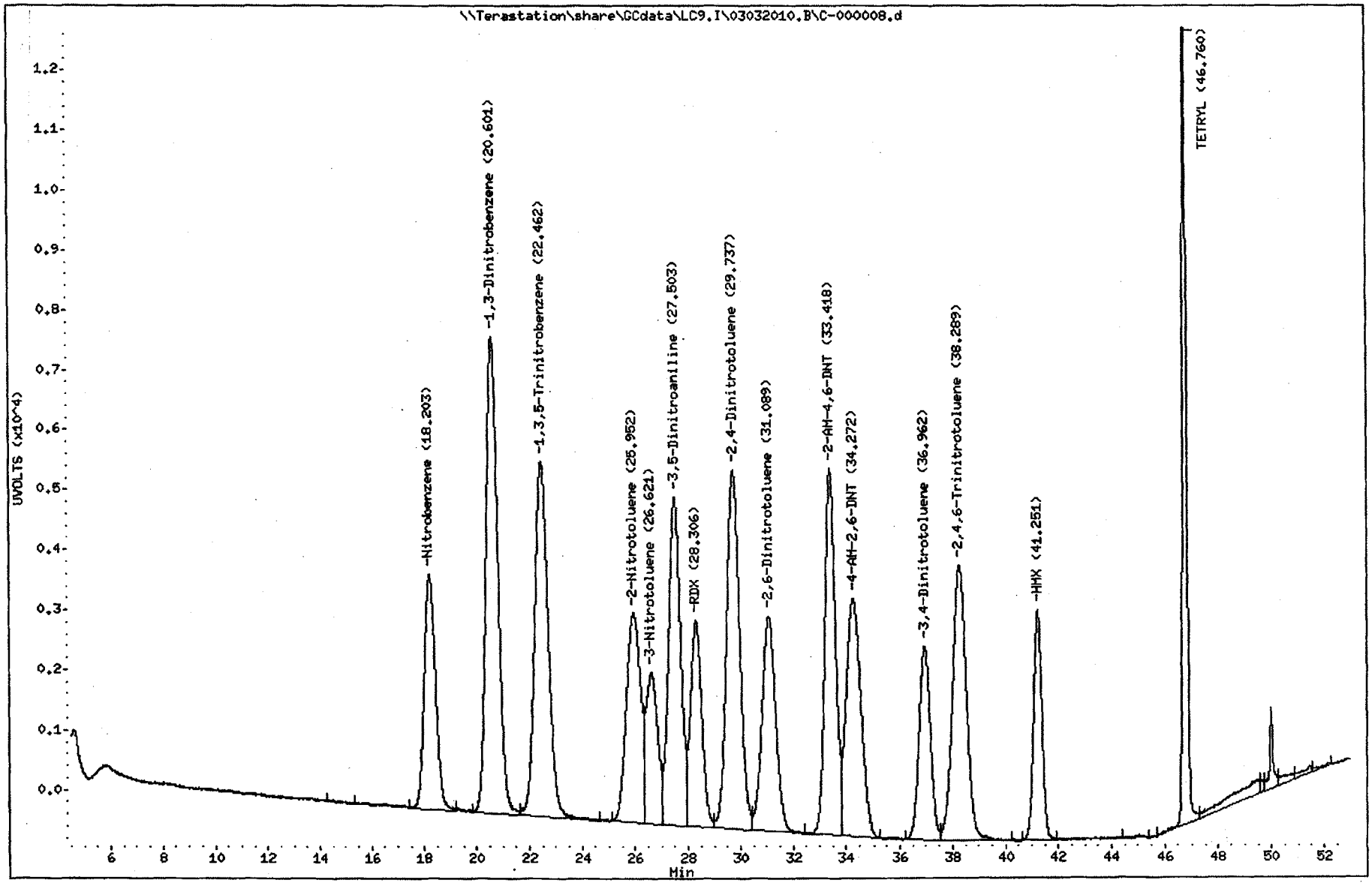
Instrument: LC9.i

Sample Info: 8330 10GCSV0072 ICAL L5;i

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d\C-000008.
Lab Smp Id: 8330 10GCSV0072 ICA
Inj Date : 04-MAR-2010 00:01
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0072 ICAL L5;1
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:35 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 00:01 Cal File: C-000008.d
Als bottle: 85 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
45.097	514912	4856	0.009	17.13	14 Nitroglycerin
49.299	53299	1084	0.020	3.82	
49.654	57962	558	0.010	1.96	
49.969	626808	21845	0.035	77.09	23 PETN
	1252980	28343		100.000	

Total unknown % height = 5.780

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d\C-000008.d

Date : 04-MAR-2010 00:01

Client ID:

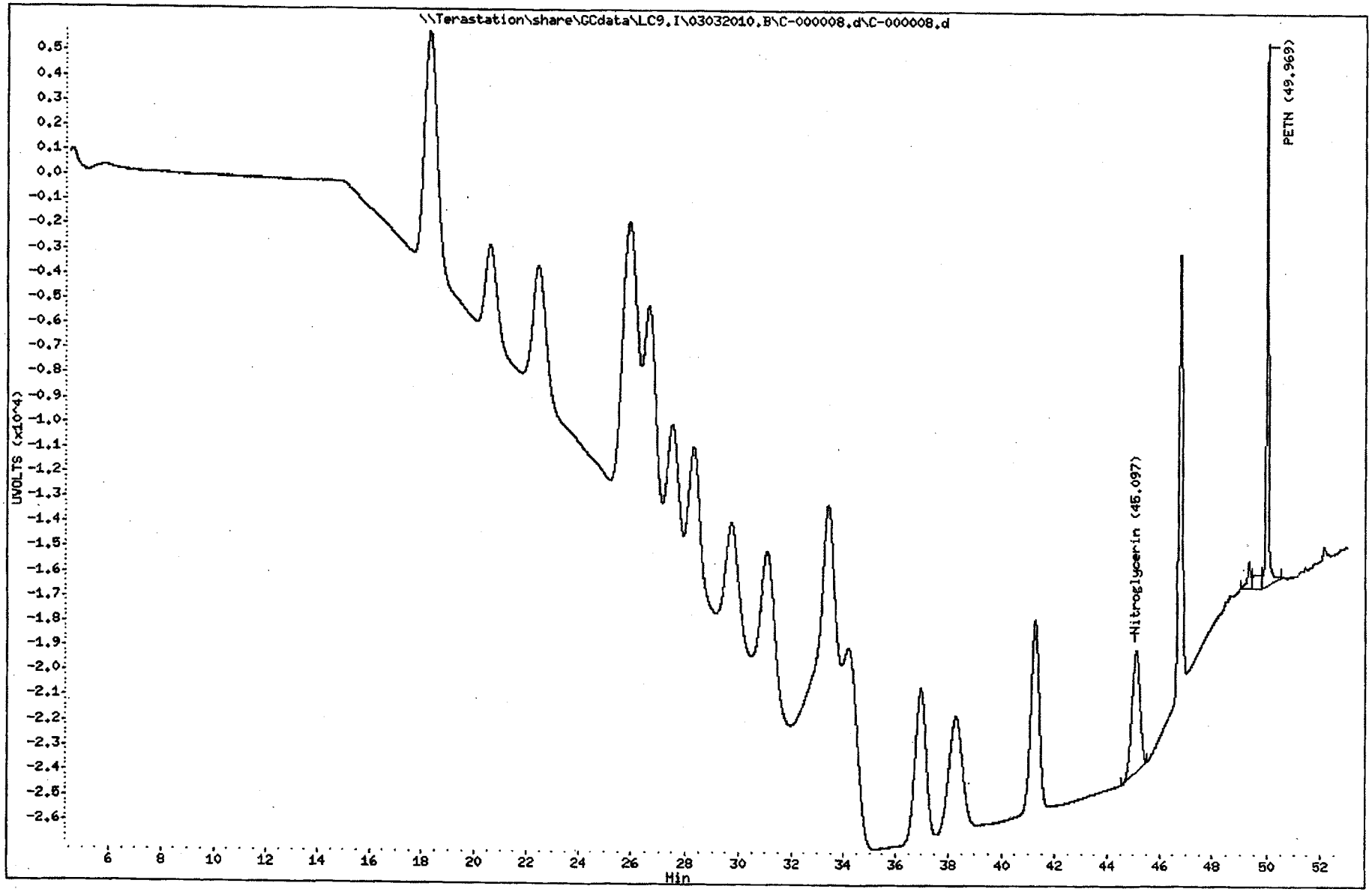
Sample Info: 8330 10GCSV0072 ICAL L5;1

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS

Column diameter: 4.60



TestAmerica West Sacramento

C-000009.D

Chromatography Summary

Injection Date: 3/4/2010 1:07 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000009.D **Vial Num:** 86

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : 8330 09GCSV0482 ICAL L6

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 09GCSV0482 ICAL L6;1

Misc. Info: ;6;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.92	6132	200		30.66			200		0
HMX	41.25	7628	200		38.14			200		0
RDX	28.32	6812	200		34.06			200		0
Picric ACID			500		0			500		0
1,3,5-Trinitrobenzene	22.47	11832	200		59.16			200		0
1,3-Dinitrobenzene	20.61	15883	200		79.415			200		0
TETRYL	46.77	29447	200		147.235			200		0
Nitrobenzene	18.22	7819	200		39.095			200		0
2,4,6-Trinitrotoluene	38.26	9437	200		47.185			200		0
4-AM-2,6-DNT	34.21	8014	200		40.07			200		0
2-AM-4,6-DNT	33.36	12268	200		61.34			200		0
2,6-Dinitrotoluene	31.11	7026	200		35.13			200		0
2,4-Dinitrotoluene	29.76	11906	200		59.53			200		0
2-Nitrotoluene	25.97	7021	400		17.5525			400		0
4-Nitrotoluene			400		0			400		0
3-Nitrotoluene	26.63	5037	200		25.185			200		0
Nitroglycerin			200		0	45.11	10041	200		50.205
PETN			200		0	49.99	43546	200		217.73
3,5-Dinitroaniline	27.51	10855	200		54.275			200		0
EGDN			200		0			200		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d
Lab Smp Id: 8330 09GCSV0482 ICA
Inj Date : 04-MAR-2010 01:07
Operator : NS Inst ID: LC9.i
Smp Info : 8330 09GCSV0482 ICAL L6;1
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:35 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 01:07 Cal File: C-000009.d
Als bottle: 86 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
18.217	1187675	7819	0.007	4.86	13	Nitrobenzene
20.613	2495688	15883	0.006	9.87	10	1,3-Dinitrobenzene
22.469	2101453	11832	0.006	7.35	9	1,3,5-Trinitrobenze
25.966	1346976	7021	0.005	4.36	20	2-Nitrotoluene
26.631	757308	5037	0.007	3.13	22	3-Nitrotoluene
27.511	1726403	10855	0.006	6.74	11	3,5-Dinitroaniline
28.321	1026784	6812	0.007	4.23	7	RDX
29.756	2048363	11906	0.006	7.40	19	2,4-Dinitrotoluene
31.109	1273284	7026	0.006	4.36	18	2,6-Dinitrotoluene
33.359	1706542	12268	0.007	7.62	17	2-AM-4,6-DNT
34.209	1477478	8014	0.005	4.98	16	4-AM-2,6-DNT
36.924	935312	6132	0.007	3.81	$ 1	3,4-Dinitrotoluene
38.260	1787870	9437	0.005	5.86	15	2,4,6-Trinitrotolue
41.246	849220	7628	0.009	4.74	4	HMX
43.374	3072	30	0.010	0.01		
44.362	3547	30	0.008	0.01		
45.079	11063	90	0.008	0.05		
46.771	1512340	29447	0.019	18.43	12	TETRYL
48.660	56403	212	0.004	0.13		
49.325	39276	396	0.010	0.24		
49.619	19129	207	0.011	0.12		
50.014	104122	2643	0.025	1.64		
51.487	29749	57	0.002	0.03		
52.166	6009	58	0.010	0.03		
	22505067	160840		100.000		

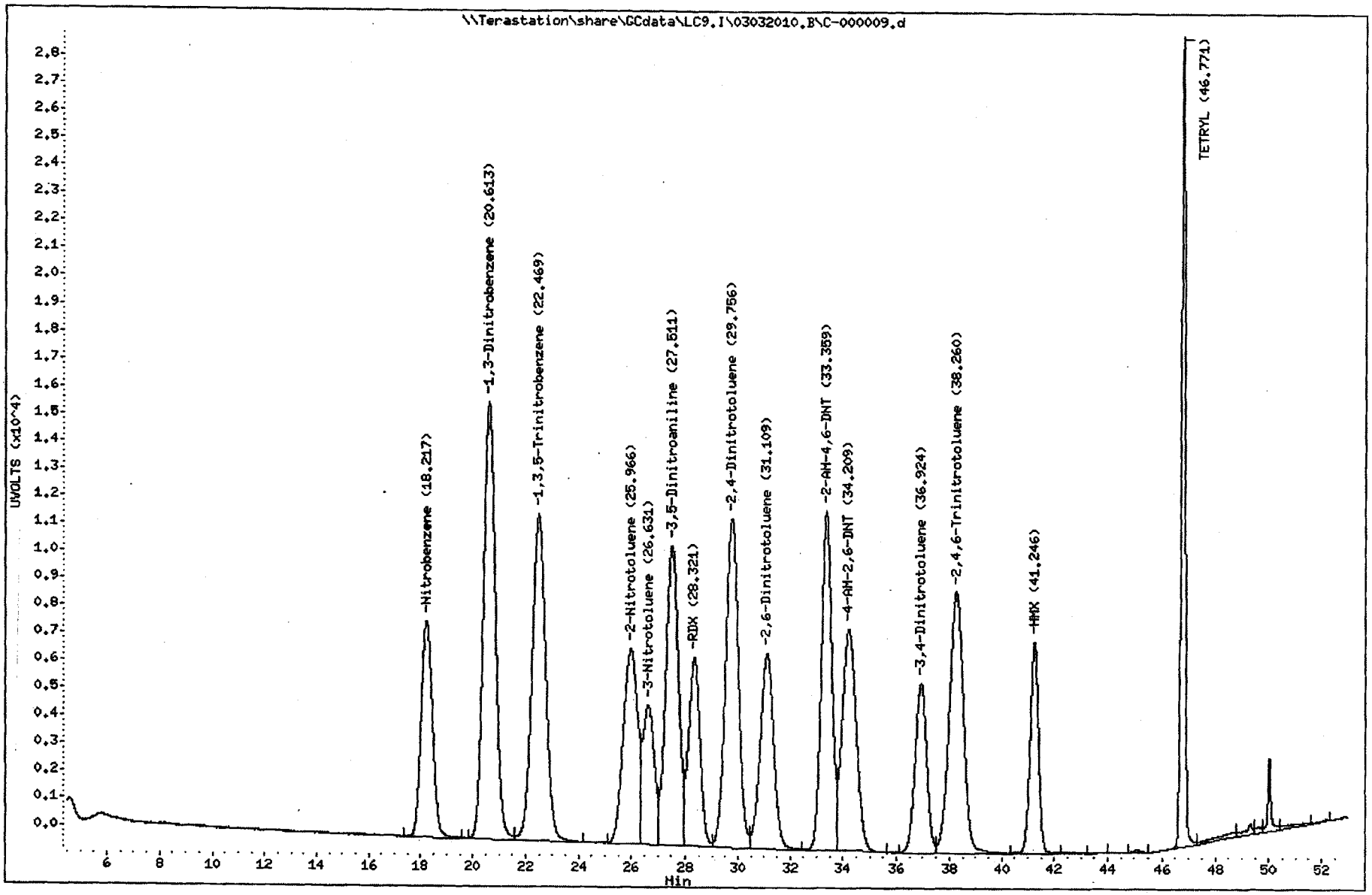
Total unknown % height = 2.260

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d
Date : 04-MAR-2010 01:07
Client ID:
Sample Info: 8330 09GCSV0482 ICAL L6;1

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d\C-000009.
Lab Smp Id: 8330 09GCSV0482 ICA
Inj Date : 04-MAR-2010 01:07
Operator : NS Inst ID: LC9.i
Smp Info : 8330 09GCSV0482 ICAL L6;1
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:35 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 01:07 Cal File: C-000009.d
Als bottle: 86 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
45.109	1089586	10041	0.009	17.37	14 Nitroglycerin
49.323	124291	3526	0.028	6.10	
49.648	58042	671	0.012	1.16	
49.994	1213099	43546	0.036	75.37	23 PETN
	2485017	57784		100.000	

Total unknown % height = 7.260

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d\C-000009.d

Date : 04-MAR-2010 01:07

Client ID:

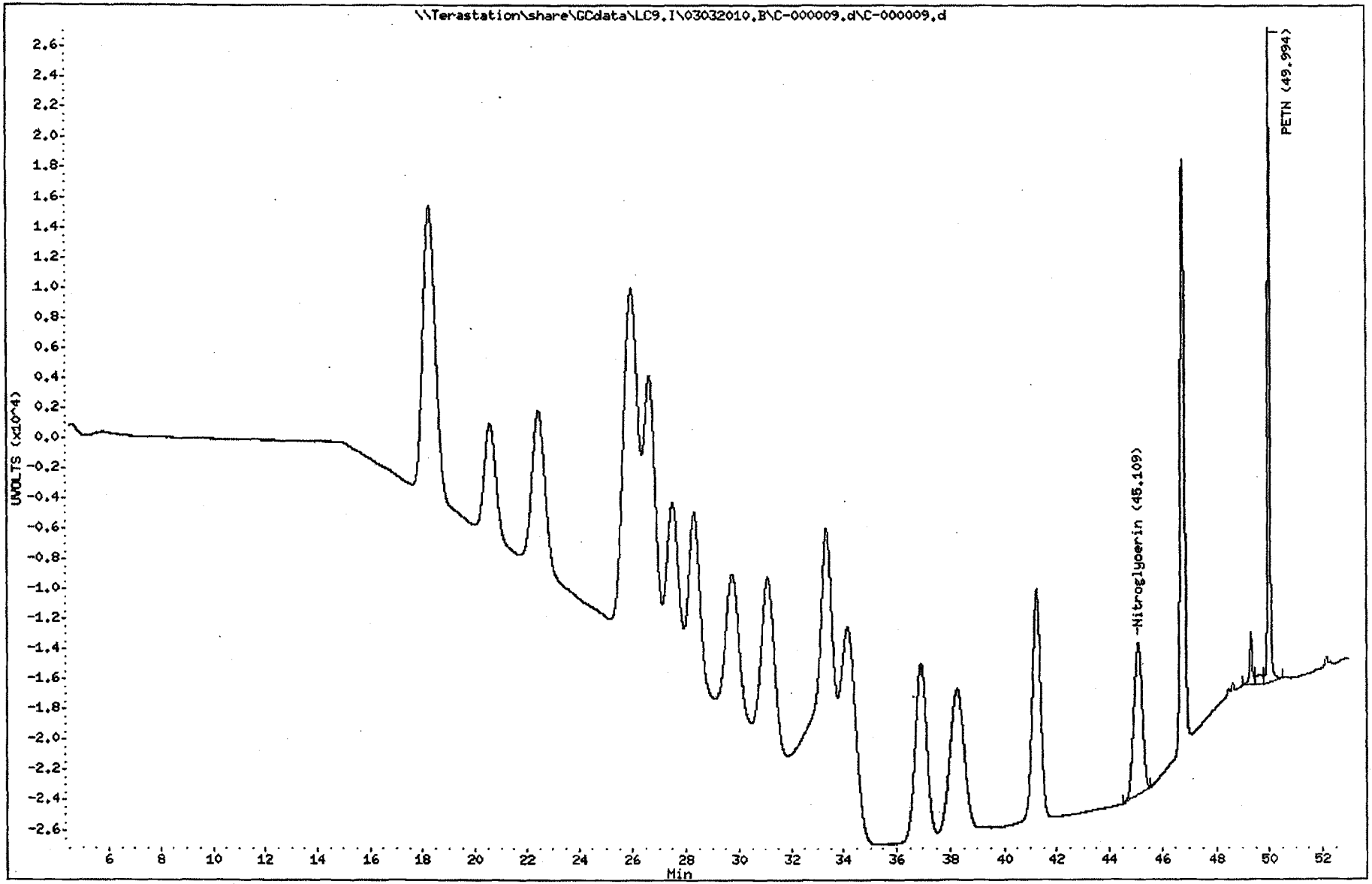
Instrument: LC9.i

Sample Info: 8330 09GCSV0482 ICAL L6;1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000010.D

Chromatography Summary

Injection Date: 3/4/2010 2:12 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000010.D **Vial Num:** 87

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0050 ICAL L7**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0050 ICAL L7;1

Misc. Info: ;7;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.83	9381	300		31.27			300		0
HMX	41.14	18894	500		37.788			500		0
RDX	28.24	15968	500		31.936			500		0
Picric ACID			1000		0			1000		0
1,3,5-Trinitrobenzene	22.42	29114	500		58.228			500		0
1,3-Dinitrobenzene	20.57	37565	500		75.13			500		0
TETRYL	46.72	68351	500		136.702			500		0
Nitrobenzene	18.17	17976	500		35.952			500		0
2,4,6-Trinitrotoluene	38.16	23267	500		46.534			500		0
4-AM-2,6-DNT	34.11	20320	500		40.64			500		0
2-AM-4,6-DNT	33.30	29610	500		59.22			500		0
2,6-Dinitrotoluene	31.02	17564	500		35.128			500		0
2,4-Dinitrotoluene	29.68	28765	500		57.53			500		0
2-Nitrotoluene	25.88	17147	1000		17.147			1000		0
4-Nitrotoluene			1000		0			1000		0
3-Nitrotoluene	26.53	/ 12130	500		24.26			500		0
Nitroglycerin			500		0	44.99	25412	500		50.824
PETN			500		0	49.98	/ 110509	500		221.018
3,5-Dinitroaniline	27.44	25882	500		51.764			500		0
EGDN			500		0			500		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d
Lab Smp Id: 8330 10GCSV0050 ICA
Inj Date : 04-MAR-2010 02:12
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0050 ICAL L7;1
Misc Info : ;7;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:35 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 02:12 Cal File: C-000010.d
Als bottle: 87 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
18.173	2996834	17976	0.006	4.72		13 Nitrobenzene
20.571	6323653	37565	0.006	9.87		10 1,3-Dinitrobenzene
22.424	5317290	29114	0.005	7.65		9 1,3,5-Trinitrobenze
25.880	3436116	17147	0.005	4.50		20 2-Nitrotoluene
26.535	1905539	12130	0.006	3.18		22 3-Nitrotoluene
27.441	4405650	25882	0.006	6.80		11 3,5-Dinitroaniline
28.244	2587222	15968	0.006	4.19		7 RDX
29.677	5205888	28765	0.006	7.56		19 2,4-Dinitrotoluene
31.018	3229537	17564	0.005	4.61		18 2,6-Dinitrotoluene
33.299	4297703	29610	0.007	7.78		17 2-AM-4,6-DNT
34.108	3707027	20320	0.005	5.34		16 4-AM-2,6-DNT
36.826	1477856	9381	0.006	2.46	$	1 3,4-Dinitrotoluene
38.159	4446324	23267	0.005	6.11		15 2,4,6-Trinitrotolue
41.139	2143280	18894	0.009	4.96		4 HMX
43.342	11529	60	0.005	0.01		
44.995	28852	236	0.008	0.06		
46.723	3428488	68351	0.020	18.06		12 TETRYL
49.460	59621	244	0.004	0.06		
49.999	220491	6665	0.030	1.75		
51.461	28841	183	0.006	0.04		
52.149	38860	1107	0.028	0.29		
	55296601	380429		100.000		

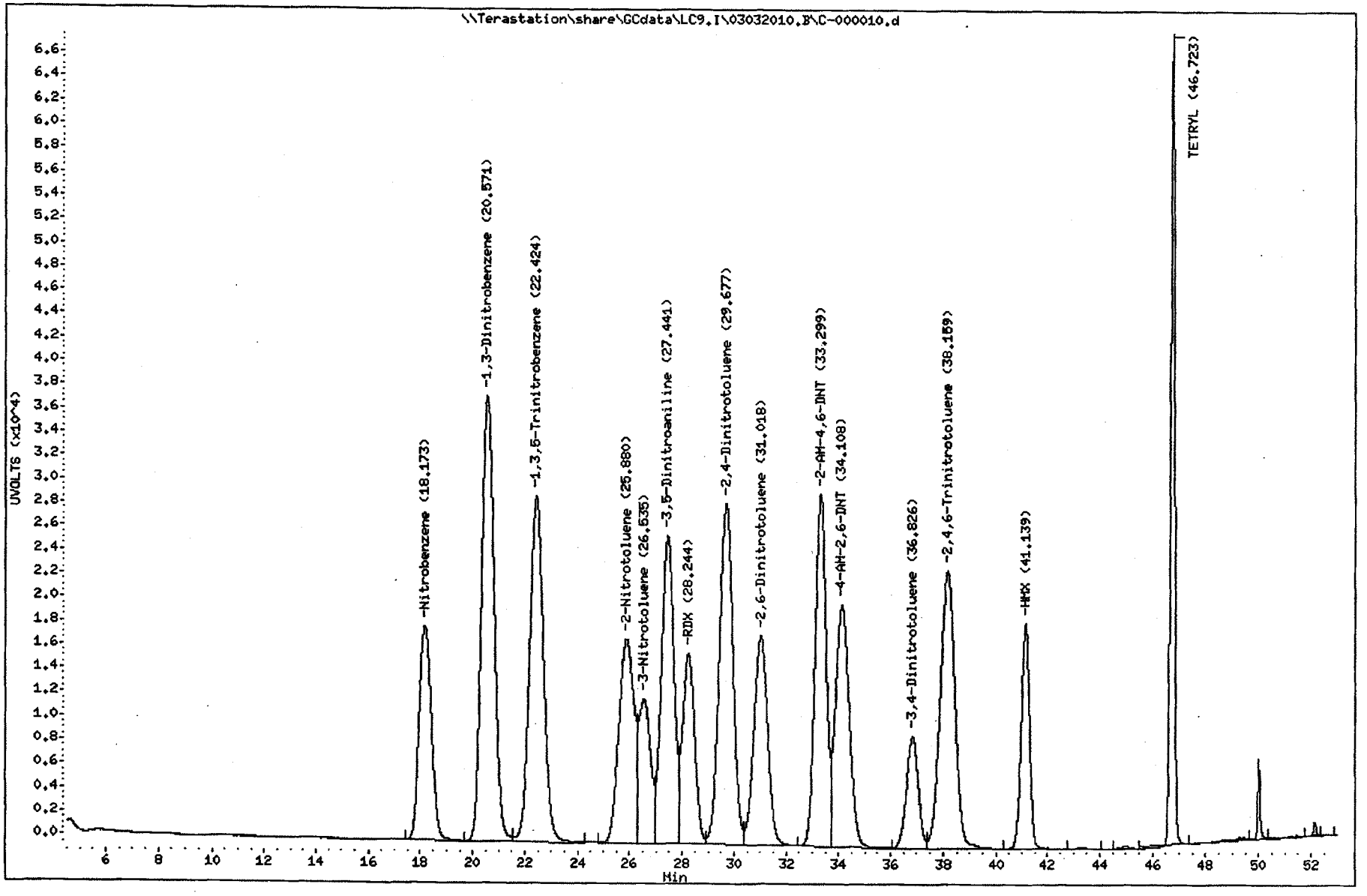
Total unknown % height = 2.210

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d
Date : 04-MAR-2010 02:12
Client ID:
Sample Info: 8330 10GCSV0050 ICAL L7;1

Instrument: LC9.i

Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d\C-000010.
Lab Smp Id: 8330 10GCSV0050 ICA
Inj Date : 04-MAR-2010 02:12
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0050 ICAL L7;1
Misc Info : ;7;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:36 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 02:12 Cal File: C-000010.d
Als bottle: 87 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

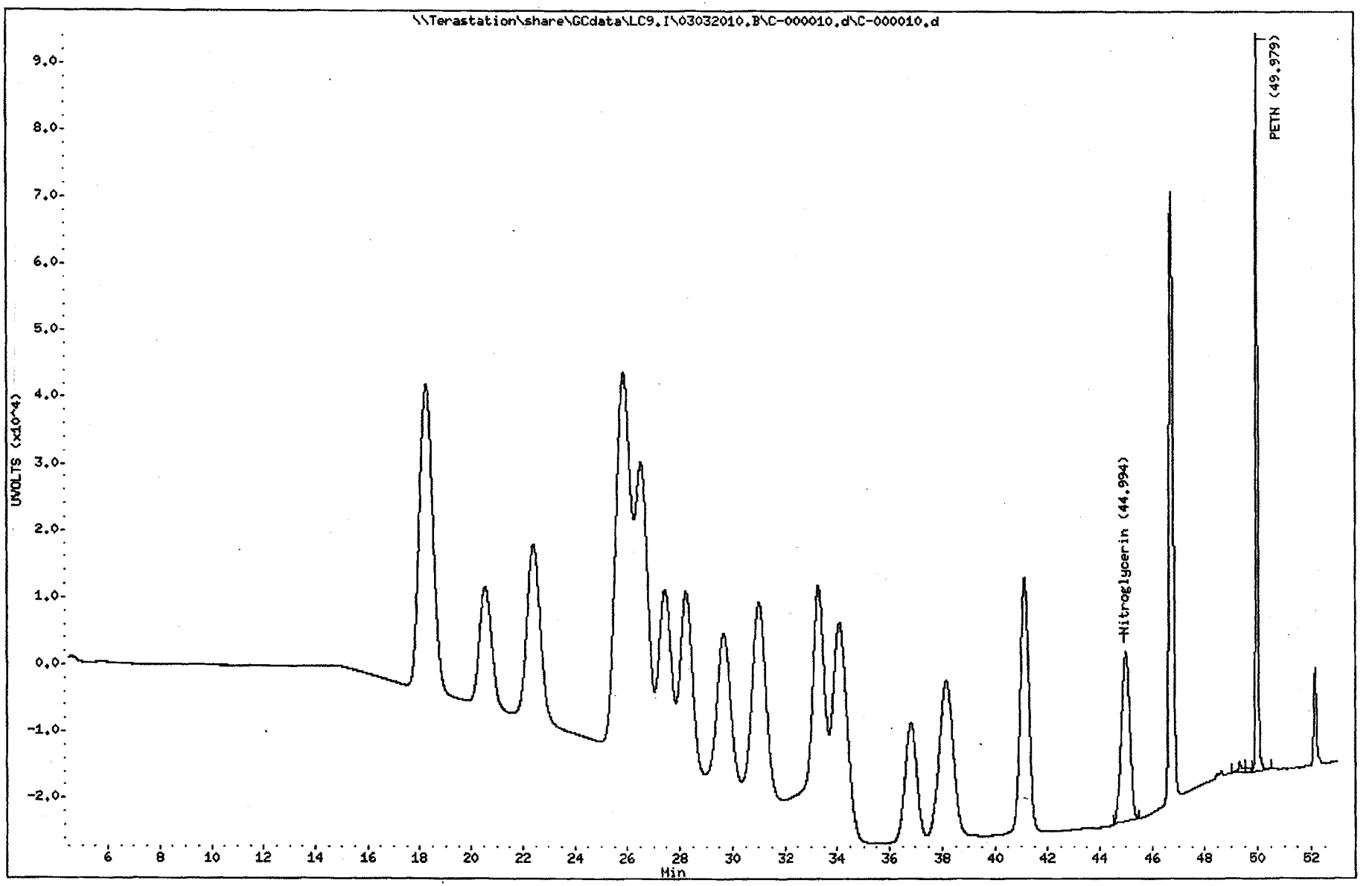
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.994	2869462	25412	0.009	18.39	14 Nitroglycerin
49.305	87969	1607	0.018	1.16	
49.628	46243	642	0.014	0.46	
49.979	2995521	110509	0.037	79.99	23 PETN
	5999194	138170		100.000	

Total unknown % height = 1.620

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d\C-000010.d
Date : 04-MAR-2010 02:12
Client ID:
Sample Info: 8330 10GCSV0050 ICAL L7;1

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

C-000011.D

Chromatography Summary

Injection Date: 3/4/2010 3:18 Operator: NS

DataFile: LC9.I\03032010.B\C-000011.D Vial Num: 88

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0051 ICAL L8**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 End Cal Date: 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: 8330 10GCSV0051 ICAL L8;1

Misc. Info: ;8;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.66	14295	500		28.59			500		0
HMX	41.01	34701	1000		34.701			1000		0
RDX	28.08	27778	1000		27.778			1000		0
Picric ACID			2000		0			2000		0
1,3,5-Trinitrobenzene	22.36	53702	1000		53.702			1000		0
1,3-Dinitrobenzene	20.45	65650	1000		65.65			1000		0
TETRYL	46.69	129888	1000		129.888			1000		0
Nitrobenzene	18.04	30550	1000		30.55			1000		0
2,4,6-Trinitrotoluene	38.06	43928	1000		43.928			1000		0
4-AM-2,6-DNT	33.94	39783	1000		39.783			1000		0
2-AM-4,6-DNT	33.18	53740	1000		53.74			1000		0
2,6-Dinitrotoluene	30.86	31309	1000		31.309			1000		0
2,4-Dinitrotoluene	29.54	52135	1000		52.135			1000		0
2-Nitrotoluene	25.74	31378	2000	O	15.689			2000		0
4-Nitrotoluene			2000		0			2000		0
3-Nitrotoluene	26.29	22634	1000		22.634			1000		0
Nitroglycerin			1000		0	44.92	48250	1000	O	48.25
PETN			1000		0	49.96	214337	1000		214.337
3,5-Dinitroaniline	27.31	45356	1000		45.356			1000		0
EGDN			1000		0			1000		0

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/4/2010 9:40 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d
Lab Smp Id: 8330 10GCSV0051 ICA
Inj Date : 04-MAR-2010 03:18
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0051 ICAL L8;1
Misc Info : ;8;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:40 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 88 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
18.043	5953214	30550	0.005	4.41		13 Nitrobenzene
20.449	12576694	65650	0.005	9.48		10 1,3-Dinitrobenzene
22.355	10532153	53702	0.005	7.76		9 1,3,5-Trinitrobenze
25.738	7174411	31378	0.004	4.53		20 2-Nitrotoluene
26.292	3331742	22634	0.007	3.27		22 3-Nitrotoluene
27.311	8920309	45356	0.005	6.55		11 3,5-Dinitroaniline
28.083	5005360	27778	0.006	4.01		7 RDX
29.536	10327353	52135	0.005	7.53		19 2,4-Dinitrotoluene
30.858	6378951	31309	0.005	4.52		18 2,6-Dinitrotoluene
33.181	8513135	53740	0.006	7.76		17 2-AM-4,6-DNT
33.937	7288420	39783	0.005	5.75		16 4-AM-2,6-DNT
36.663	2480080	14295	0.006	2.06	$	1 3,4-Dinitrotoluene
38.055	8809485	43928	0.005	6.34		15 2,4,6-Trinitrotolue
41.009	4247937	34701	0.008	5.01		4 HMX
43.298	21292	112	0.005	0.01		
44.922	53794	407	0.008	0.05		
46.689	6747327	129888	0.019	18.89		12 TETRYL
49.428	60487	441	0.007	0.06		
49.975	418476	13446	0.032	1.94		
50.652	17568	175	0.010	0.02		
51.432	19618	335	0.017	0.04		
52.133	4191	74	0.018	0.01		
	108881998	691817		100.000		

Total unknown % height = 2.130

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d

Date : 04-MAR-2010 03:18

Client ID:

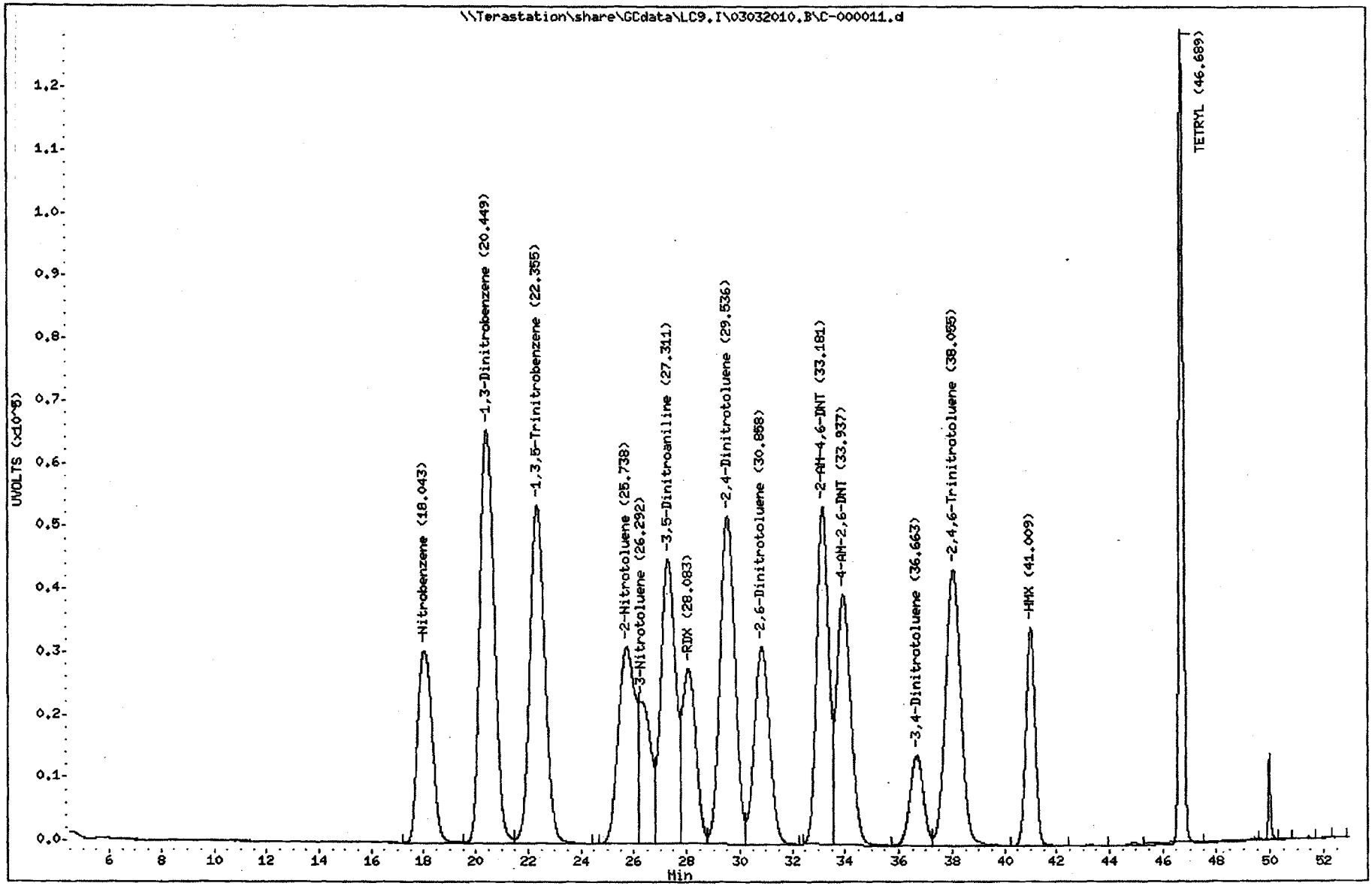
Instrument: LC9.i

Sample Info: 8330 10GCSV0051 ICAL L8:1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d\C-000011.
Lab Smp Id: 8330 10GCSV0051 ICA
Inj Date : 04-MAR-2010 03:18
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0051 ICAL L8;1
Misc Info : ;8;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:40 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 88 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.922	5887311	48250	0.008	18.22	14 Nitroglycerin
49.286	89733	1481	0.017	0.55	
49.646	37731	611	0.016	0.23	
49.957	5730589	214337	0.037	81.00	23 PETN
	11745364	264679		100.000	

Total unknown % height = 0.7800

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d\C-000011.d

Date : 04-MAR-2010 03:18

Client ID:

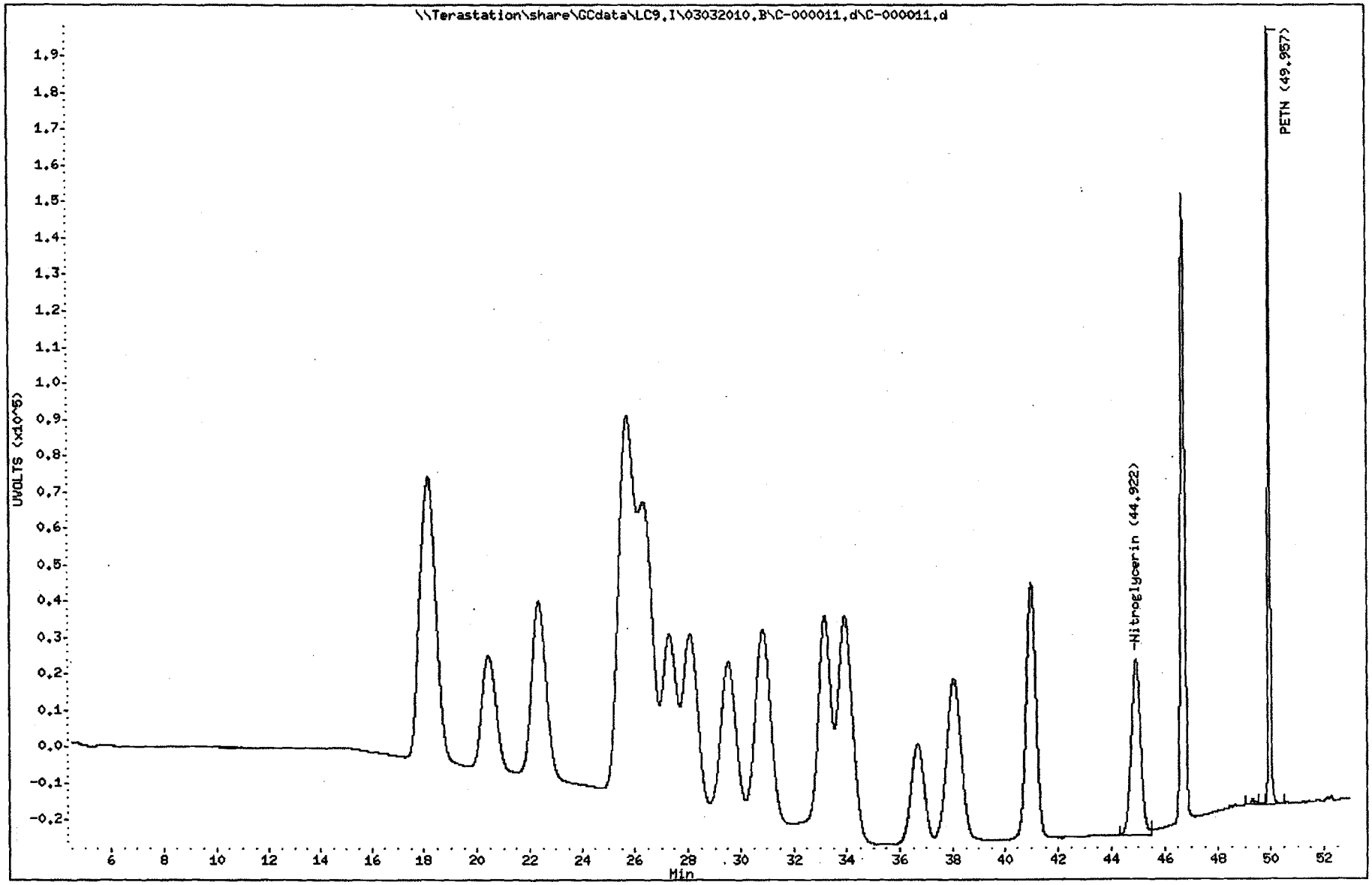
Instrument: LC9.i

Sample Info: 8330 10GCSV0051 ICAL L8:1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



Sample Extraction/Preparation Log Copies and Checklists

5T

TestAmerica West Sacramento
ESC-Extraction Master Sheet

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1945

Holding Time Due: 3/2/10 | Project Due: 3/10/10
BATCH #: 0056227 | Initiated By: TP | Date: 2/25/10
Test #: 8330B-S | Extn Comp'd By: MD | Date: 3-3-10

QC Code	Lot ID	Sample #	Sample Size / Initial Mass (g)	Final Volume / Final Mass (mL)	Chlorine checked
B	MB		10.00	80.00	
C	LCS		10.00	80.00	
	A0B180524	01	10.05	80.00	
		01DUP	10.18	80.00	
		01TRI	10.24	80.00	
		04	10.26	80.00	
		05	10.14	80.00	
	A0B190524	01	9.99	80.00	
S		01MS	9.98	80.00	
D		01MSD	10.02	80.00	
		02	10.08	80.00	
		03	10.10	80.00	
		04	10.16	80.00	
		09	10.06	80.00	
		10	10.05	80.00	
		13	10.05	80.00	
	A0B180429	01	10.06	80.00	
		02	10.03	80.00	
		03	10.02	80.00	
		04	10.01	80.00	
		12	10.02	80.00	
		14	10.06	80.00	TP2/24/10
		15	10.05	80.00	

SOP No.: WS-LC-0009

EXTRACTION COMMENTS:
Multi-incremental Sampling/Date: 2/25/10 TP

Dried/Date 2/23/10 Ground//Date 2/25/10 TP2/25/10
Sonicated - Start: 2/25/10 @ 12:00 End: ~~8~~ 6:00 Date: 2/26/10

Cleanup by/Date MD 3/3/10 Dilution by/Date MD 3/3/10

Final Vialling /Date MD 3/3/10

Millipore Water Dispensed / Date N/A

SPE Cartridge: Waters Lot # N/A

QC Codes	Standard Information				
	Volume	STD ID	Exp. Date	STD Name/Conc.	(ppm)/ppb
All	100uL	09GCSV0476	6/2/10	3,4-DNT 50ug/mL	0.50
~~A~~C,SD	100uL	09GCSV0472	6/2/10	8330+DNA 50ug/mL	0.50
C,S,D	200uL	09GCSV0481	6/2/10	NG/PETN 50ug/mL	1.0
~~C~~					

Spiked By / Date: TP2/25/10 Witnessed By / Date: MD 2/25/10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD, FB = Filter Blank

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/09/10
Time: 12:49:56

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets
				_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 002448 Tuan Q. Phan

Concentrationist: 000915 Horacio J. Arauz

Reviewer/Date: ARAUZH / 3/03/10

QC BATCH: 0056227

PREP DATE: 2/25/10 12:00
COMP DATE: 3/03/10 15:10

Nitroaromatics & Nitramines: Explosives (8330B)
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/02/10	3/10/10	A0B180429-001 **LVTQQ-1-A4**	D	13	88	SOLID	**10.06g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/02/10	3/10/10	A0B180429-002 **LVTQ1-1-AF**	D	13	88	SOLID	**10.03g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/02/10	3/10/10	A0B180429-003 **LVTQ2-1-AF**	D	13	88	SOLID	**10.02g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/02/10	3/10/10	A0B180429-004 **LVTQ3-1-AF**	D	13	88	SOLID	**10.01g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/03/10	3/10/10	A0B180429-012 **LVTT0-1-A7**	D	13	88	SOLID	**10.02g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/03/10	3/10/10	A0B180429-014 **LVTT9-1-A4**	D	13	88	SOLID	**10.06g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/03/10	3/10/10	A0B180429-015 **LVTVA-1-AF**	D	13	88	SOLID	**10.05g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/09/10
Time: 12:49:56

QC BATCH: 0056227

PREP DATE: 2/25/10 12:00
COMP DATE: 3/03/10 15:10

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/03/10	3/11/10	A0B180524-001 **LVVFK-1-A8**	D	13	88	SOLID	**10.05g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/03/10	3/11/10	A0B180524-001 **LVVFK-1-CCX**	D	13	88	SOLID	**10.18g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:	DUPLICATED														
3/03/10	3/11/10	A0B180524-001 **LVVFK-1-CDX**	D	13	88	SOLID	**10.18g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:	TRIPICATED														
3/03/10	3/11/10	A0B180524-004 **LVVF1-1-AK**	D	13	88	SOLID	**10.26g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/03/10	3/11/10	A0B180524-005 **LVVF6-1-AK**	D	13	88	SOLID	**10.14g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/04/10	3/12/10	A0B190524-001 **LVWW5-1-DQ**	D	13	88	SOLID	**9.99g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/04/10	3/12/10	A0B190524-001 **LVWW5-1-DRS**	D	13	88	SOLID	**9.98g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															
3/04/10	3/12/10	A0B190524-001 **LVWW5-1-DTD**	D	13	88	SOLID	**10.02g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															
3/04/10	3/12/10	A0B190524-002 **LVWW9-1-A8**	D	13	88	SOLID	**10.08g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/04/10	3/12/10	A0B190524-003 **LVWXC-1-AK**	D	13	88	SOLID	**10.10g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/09/10
Time: 12:49:56

QC BATCH: 0056227

PREP DATE: 2/25/10 12:00
COMP DATE: 3/03/10 15:10

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/04/10	3/12/10	A0B190524-004 **LVWXF-1-A5**	D	13	88	SOLID	**10.16g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/04/10	3/12/10	A0B190524-009 **LVWX0-1-A4**	D	13	88	SOLID	**10.06g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/04/10	3/12/10	A0B190524-010 **LVWX1-1-A8**	D	13	88	SOLID	**10.05g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/04/10	3/12/10	A0B190524-013 **LVWX8-1-A8**	D	13	88	SOLID	**10.05g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/03/10	0/00/00	G0B250000-227 **LV3R0-1-AA**B		13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/03/10	0/00/00	G0B250000-227 **LV3R0-1-AC**C		13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															

.1% HOAC/ACN 3844-007E; 1.3G/L CACL2 3844-001B;.45 FILTER MILLIPORE R9EN05392
100UL-09GCSV0472; 200UL-09GCSV0481.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 23

TestAmerica West Sacramento

Incremental Sub-Sampling

Sample ID	Analyst Initials	Date/Time Sample Drying Started	Date/Time Sample Drying Ended	Particle size needed (circle one)	Project Specific Data (Method and Required Sample Mass in Header) Record Final Mass of Each Requested Test: 8330 B, 10 g							
AOB180524-1	TP	2/23/10 11:50	2/25/10 6:00	(Course) Fine	104.40							
AOB180524-04	✓	✓	✓	(Course) Fine	54.18							
AOB180524-05	✓	✓	✓	(Course) Fine	64.40							
AOB190524-01	TP	2/23/10 11:50	2/25/10 6:00	(Course) Fine	144.32							
AOB190524-02	✓	✓	✓	(Course) Fine	58.69							
AOB190524-03	✓	✓	✓	(Course) Fine	61.35							
AOB190524-04	✓	✓	✓	(Course) Fine	82.48							
AOB190524-09	✓	✓	✓	(Course) Fine	71.21							
AOB190524-10	✓	✓	✓	(Course) Fine	74.62							
AOB190524-13	✓	✓	✓	(Course) Fine	64.15							
				Course Fine								
				Course Fine								
				Course Fine								
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particle size:
Course=10 mesh (2mm)
Fine = 30 mesh (600um)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Preparation Data Review Checklist

Prep Batch(es): 0056227 Test: 8330B-S

Prep Date: 2/25/10 Holding Times: 3/2/10 NCM: Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate		
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)		
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.		NA
4. Worksheets have been checked for required spiking compounds		
5. Spiking volumes are correctly documented		
6. Std ID numbers on spike labels match numbers on bench sheet		NA
7. Expiration dates have been checked		
8. Calibration expiration dates on pipettors have been checked		NA
9. Spiker and spike witness have signed and dated bench sheet		
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: HD Date: 2-25-10

2nd Level Reviewer: [signature] Date: 3/3/10

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

GC/HPLC Data Review Checklist

Lot ID: A0B180429 **Test:** 8330-S **PM:** MJL

Prep Batch(es) 0056227 **Due Date:** 3/10/10 **NCM:** Y (N)

A. Calibration/Instrument Performance	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV Criteria met.	✓	✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria	✓	✓	
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.			✓
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
B. QA/QC			
1. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
2. LCS/LCSD and MB data is included.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	✓	✓	
4. MS/MSD data complete.	✓	✓	
5. Holding Times were met.	✓	✓	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	✓	✓	
2. Logbooks/prep sheets properly filled out.	✓	✓	
3. Manual Integrations reviewed and appropriate.			✓
4. All raw data for samples is included (applies to unused data as well)	✓	✓	
5. All analytes correctly reported.	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: _____ Date: 3/9/10

2nd Level Reviewer: _____ Date: 3/10/2010

Comments:

SOLID, 8330M, Nitroguanidine

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

initial/continuing calibration standards

interference/performance check standards

initial/continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

CalcList: C:\STAR\Sample List\NQ-03.03.2010.PCL

Created: Wed Mar 03 13:02:52 2010
Modified: Wed Mar 03 22:58:11 2010

37

No analysis 3-3-10

WS-LC-0010

Line	Sample Type	Sample Name	Data E
1	Verification	Primer WS-LC-0010	3-3-2010=13;12;56-nq-primer ws-lc-0010.
2	Verification	Primer WS-LC-0010	3-3-2010=13;28;55-nq-primer ws-lc-0010.
3	Verification	09GCSV0431	3-3-2010=13;44;58-nq-09gcsv0431.
4	Analysis	G0C010000-207 MB	3-3-2010=14;00;57-nq-g0c010000-207 mb.
5	Analysis	G0C010000-207 LCS	3-3-2010=14;16;56-nq-g0c010000-207 lcs.
6	Analysis	A0B250493-2	3-3-2010=14;32;55-nq-a0b250493-2.
7	Analysis	A0B250493-2MS	3-3-2010=14;48;54-nq-a0b250493-2ms.
8	Analysis	A0B250493-2SD	3-3-2010=15;04;52-nq-a0b250493-2sd.
9	Analysis	G0C020000-232 MB	3-3-2010=15;20;51-nq-g0c020000-232 mb.
10	Analysis	G0C020000-232 LCS	3-3-2010=15;36;50-nq-g0c020000-232 lcs
11	Analysis	A0B260449-1	3-3-2010=15;52;50-nq-a0b260449-1
12	Analysis	A0B260449-1MS	3-3-2010=16;08;48-nq-a0b260449-1ms
13	Analysis	A0B260449-1SD	3-3-2010=16;24;47-nq-a0b260449-1sd
14	Analysis	A0B230467-1	3-3-2010=16;40;51-nq-a0b230467-1
15	Analysis	A0B240490-3	3-3-2010=16;56;54-nq-a0b240490-3
16	Analysis	A0B240490-4	3-3-2010=17;12;56-nq-a0b240490-4
17	Analysis	A0B240490-16	3-3-2010=17;28;52-nq-a0b240490-16
18	Verification	09GCSV043[illegible]	3-3-2010=17;44;54-nq-09gcsv0430
19	Analysis	G0B250000-283 MB	3-3-2010=18;00;56-nq-g0b250000-283 mb
20	Analysis	G0B250000-283 LCS	3-3-2010=18;16;53-nq-g0b250000-283 lcs
21	Analysis	A0B160474-4	3-3-2010=18;32;50-nq-a0b160474-4
22	Analysis	A0B160474-4MS	3-3-2010=18;48;51-nq-a0b160474-4ms
23	Analysis	A0B160474-4SD	3-3-2010=19;04;48-nq-a0b160474-4sd
24	Analysis	A0B160474-5	3-3-2010=19;20;47-nq-a0b160474-5
25	Analysis	A0B180429-4	3-3-2010=19;36;46-nq-a0b180429-4
26	Analysis	A0B180429-12	3-3-2010=19;52;45-nq-a0b180429-12
27	Analysis	A0B180524-1	3-3-2010=20;08;44-nq-a0b180524-1
28	Analysis	A0B180524-4	3-3-2010=20;24;43-nq-a0b180524-4
29	Analysis	A0B180524-5	3-3-2010=20;40;40-nq-a0b180524-5
30	Verification	09GCSV0430	3-3-2010=20;56;40-nq-09gcsv0430
31	Analysis	A0B190524-2	3-3-2010=21;12;42-nq-a0b190524-2
32	Analysis	A0B190524-3	3-3-2010=21;28;41-nq-a0b190524-3
33	Analysis	A0B190524-10	3-3-2010=21;44;40-nq-a0b190524-10
34	Analysis	A0B190524-13	3-3-2010=22;00;40-nq-a0b190524-13

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on FIA
Run File : c:\star\data\03-2010\3-3-2010=17;44;54-nq-09gcsv0430.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : 09GCSV0430

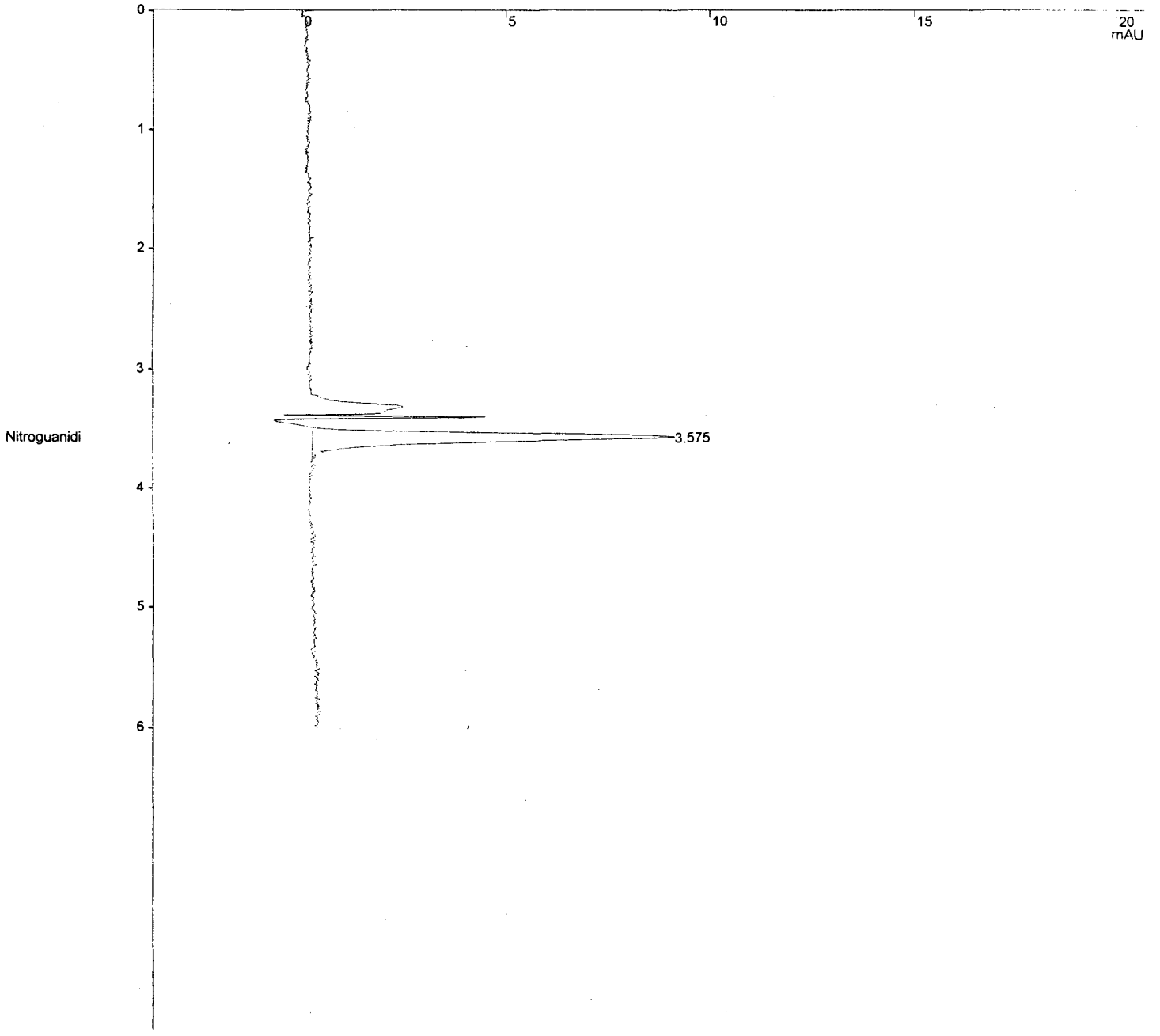
Injection Date: 3/3/2010 17:44 Calculation Date: 3/3/2010 17:53

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Verification Report

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=17;44;54-nq-09gcsv0430.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : 09GCSV0430

Injection Date: 3/3/2010 17:44 Calculation Date: 3/3/2010 17:53

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	Dev. %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
1	Nitroguanidi	200.0000	191.2280	4.4	3.575	-0.017	1161	
	Totals:		191.2280			-0.017	1161	

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 313 microAU

Noise (used): 137 microAU - monitored before this run

Vial: 14 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

NQ STD 200 ng/mL
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis by EPA
Run File : c:\star\data\03-2010\3-3-2010=18;00;56-nq-g0b250000-283 mb.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : G0B250000-283 MB

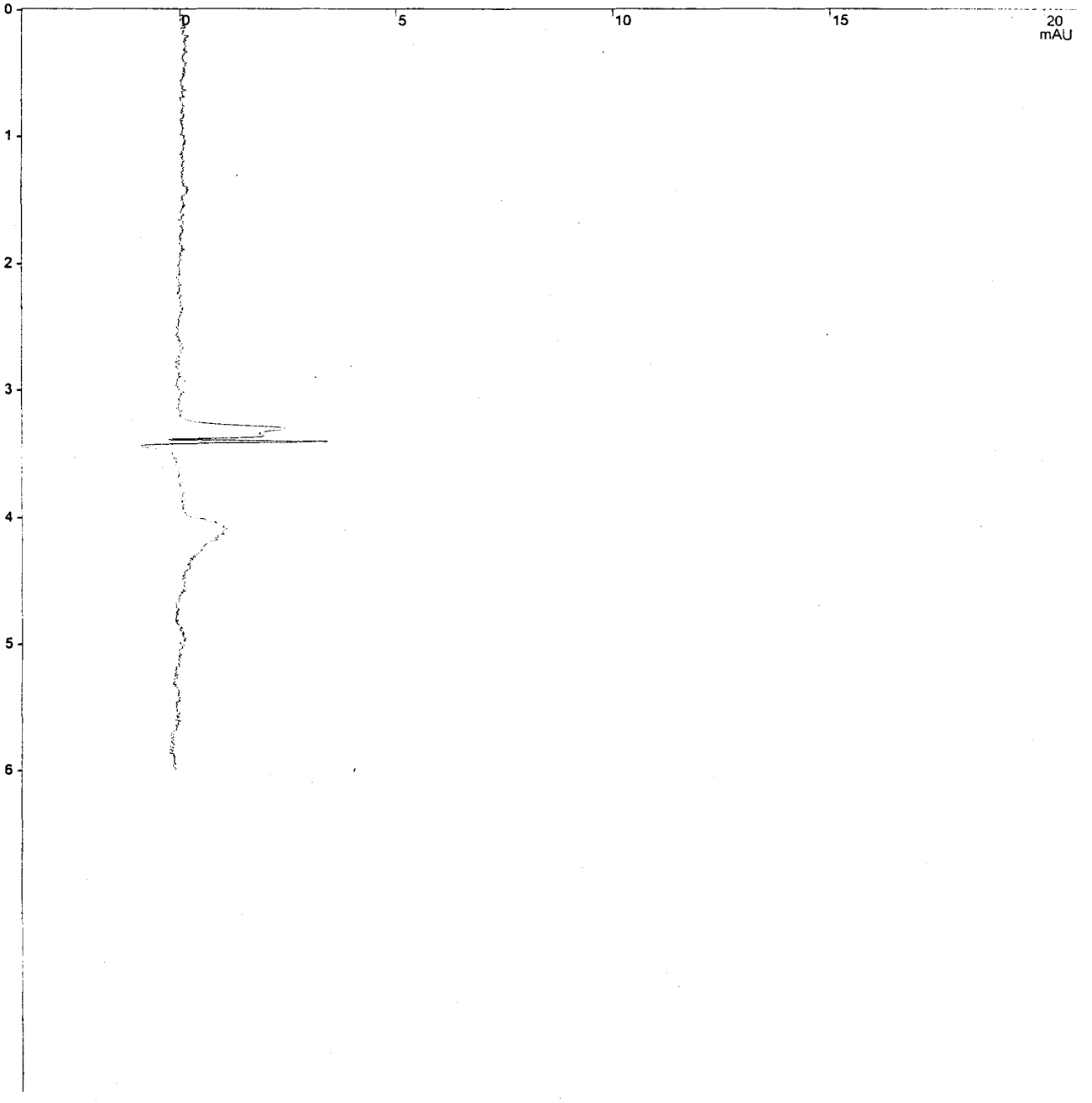
Injection Date: 3/3/2010 18:00 Calculation Date: 3/3/2010 18:09

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=18;00;56-nq-g0b250000-283 mb.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : G0B250000-283 MB

Injection Date: 3/3/2010 18:00 Calculation Date: 3/3/2010 18:09

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result ✓ (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
Totals:		0.0000		0.000	0			

Total Unidentified Counts : 0 counts

Detected Peaks: 0 Rejected Peaks: 0 Identified Peaks: 0

Multiplier: 10 Divisor: 2 Unidentified Peak Factor: 0

Baseline Offset: 61 microAU

Noise (used): 167 microAU - monitored before this run

Vial: 63 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST00I0139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Data Handling: No peaks

Original Notes:

0056283 MB, 2G/10ML
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=18;16;53-nq-g0b250000-283 lcs.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : G0B250000-283 LCS

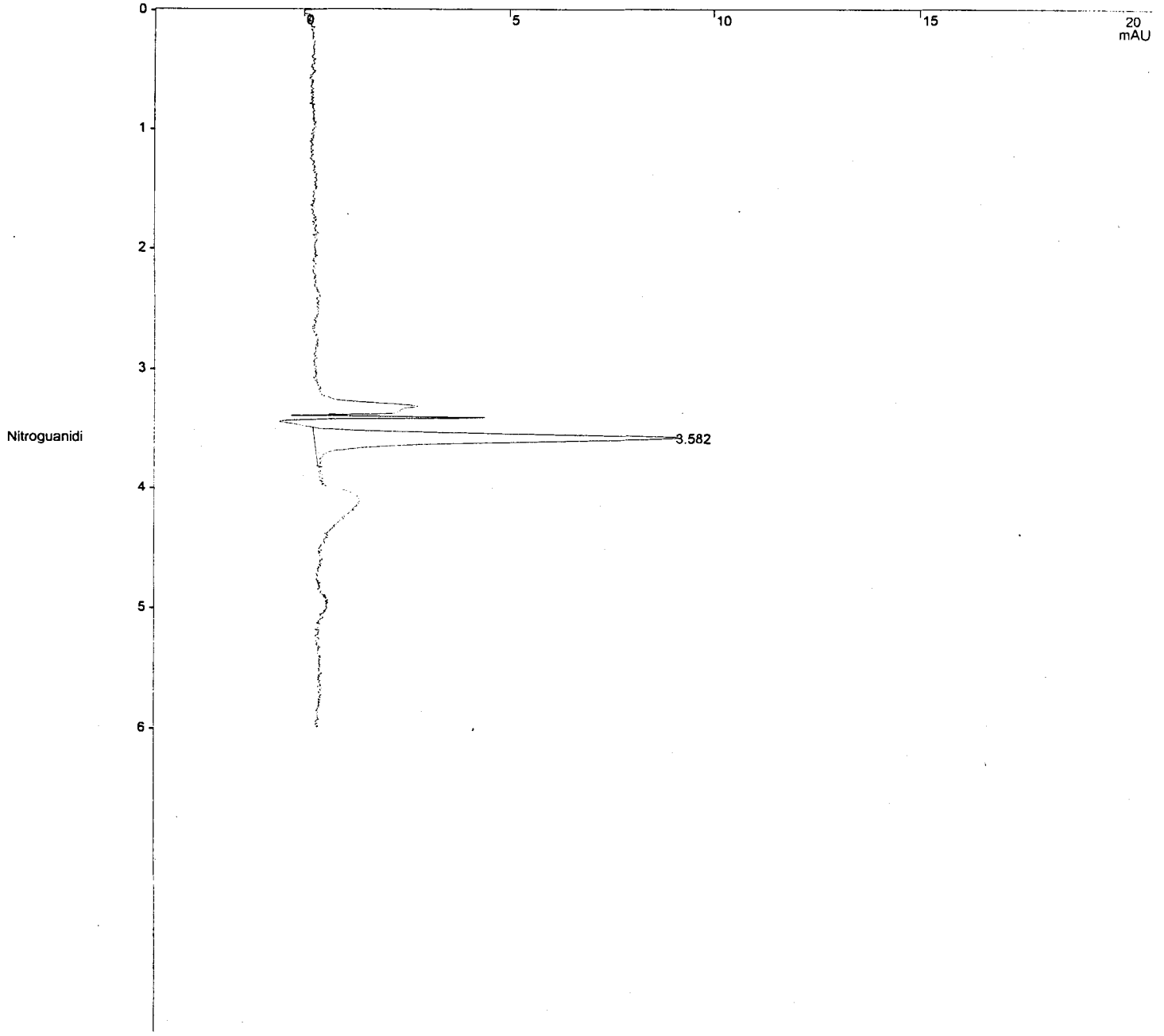
Injection Date: 3/3/2010 18:16 Calculation Date: 3/3/2010 18:25

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=18;16;53-nq-g0b250000-283 lcs.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : G0B250000-283 LCS

Injection Date: 3/3/2010 18:16 Calculation Date: 3/3/2010 18:25

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	948.5223	3.582	-0.010	1152	BB	4.7	
	Totals:	948.5223		-0.010	1152			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 10 Divisor: 2 Unidentified Peak Factor: 0

Baseline Offset: 259 microAU

Noise (used): 205 microAU - monitored before this run

Vial: 65 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

0056283 LCS, 2G/10ML
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=19;36;46-nq-a0b180429-4.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B180429-4

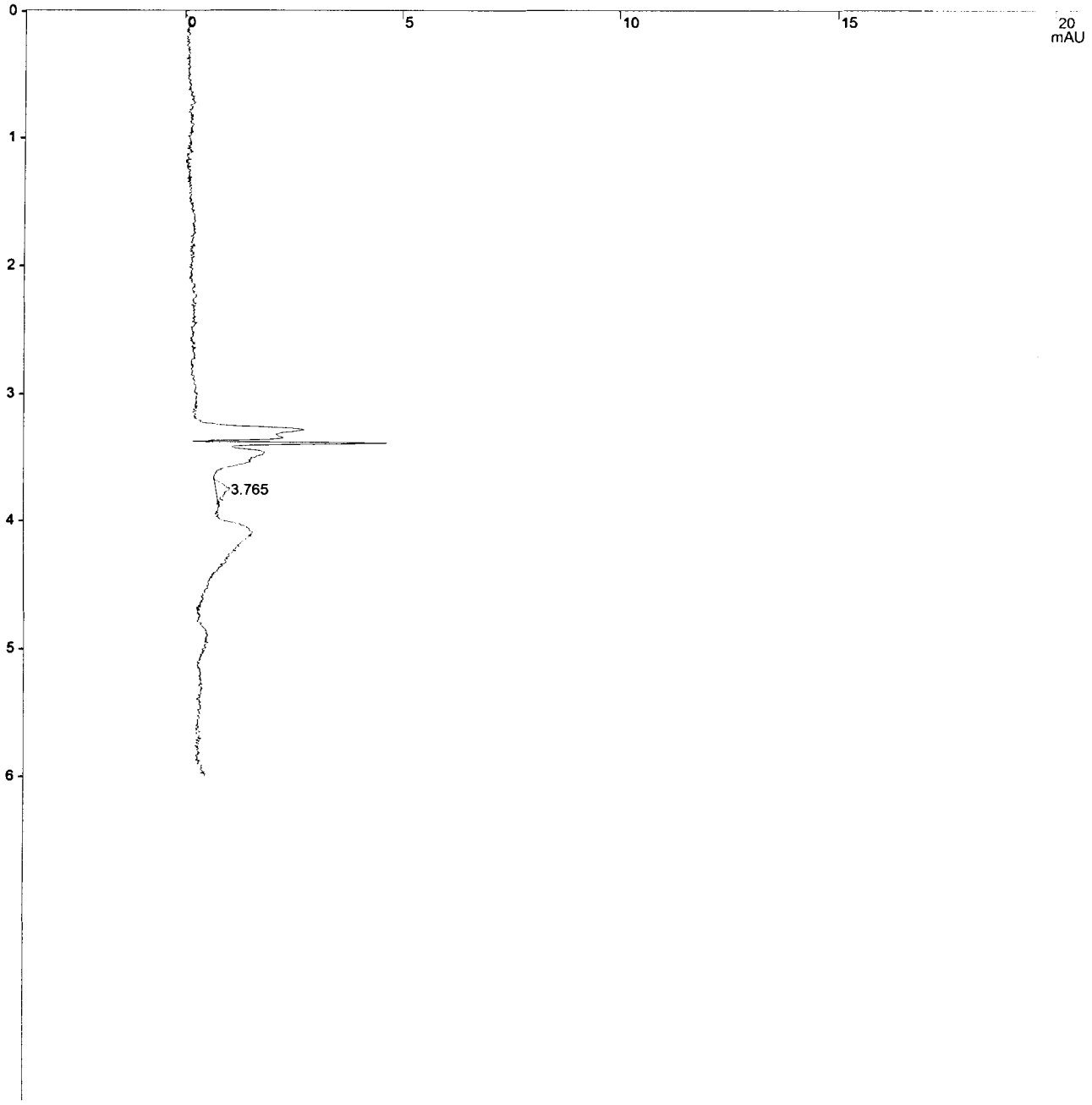
Injection Date: 3/3/2010 19:36 Calculation Date: 3/3/2010 19:44

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=19;36;46-nq-a0b180429-4.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B180429-4

Injection Date: 3/3/2010 19:36 Calculation Date: 3/3/2010 19:44

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.0000	3.765	0.000	41	BB	6.7	
	Totals:	0.0000		0.000	41			

Total Unidentified Counts : 41 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 0

Multiplier: 10 Divisor: 2.01 Unidentified Peak Factor: 0

Baseline Offset: 84 microAU

Noise (used): 183 microAU - monitored before this run

Vial: 75 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

LVTQ31CA 2.01G/10ML
****

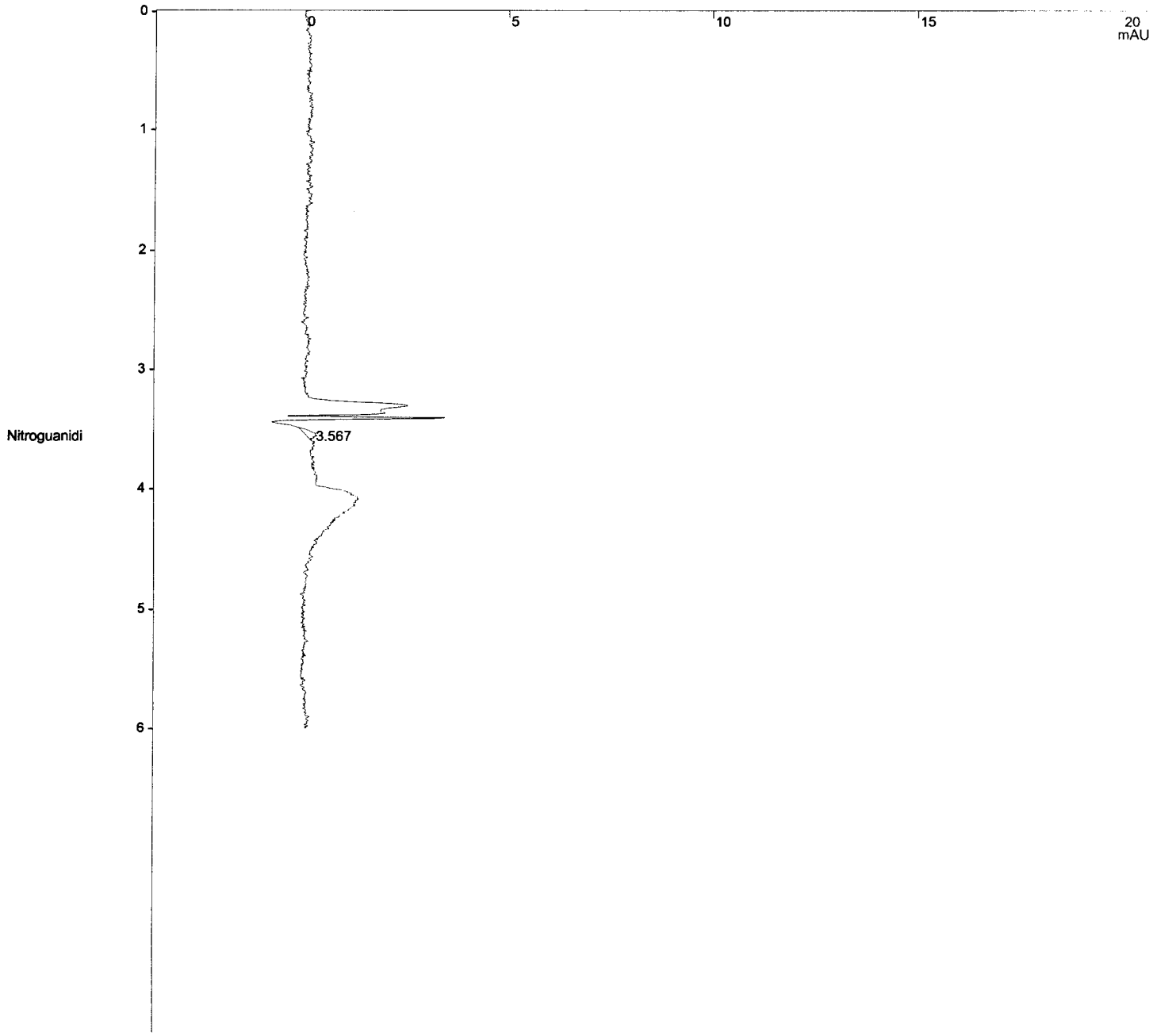
Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=19;52;45-nq-a0b180429-12.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B180429-12

Injection Date: 3/3/2010 19:52 Calculation Date: 3/3/2010 20:00

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=19;52;45-nq-a0b180429-12.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B180429-12

Injection Date: 3/3/2010 19:52 Calculation Date: 3/3/2010 20:00

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	27.4434	3.567	-0.025	33	BB	0.0	
	Totals:	27.4434		-0.025	33			

does not confirm ND
1/2 3-10-10

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 10 Divisor: 2.01 Unidentified Peak Factor: 0

Baseline Offset: 107 microAU

Noise (used): 183 microAU - monitored before this run

Vial: 77 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

LVTTO1A8 2.01G/10ML
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=20;56;40-nq-09gcsv0430.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : 09GCSV0430

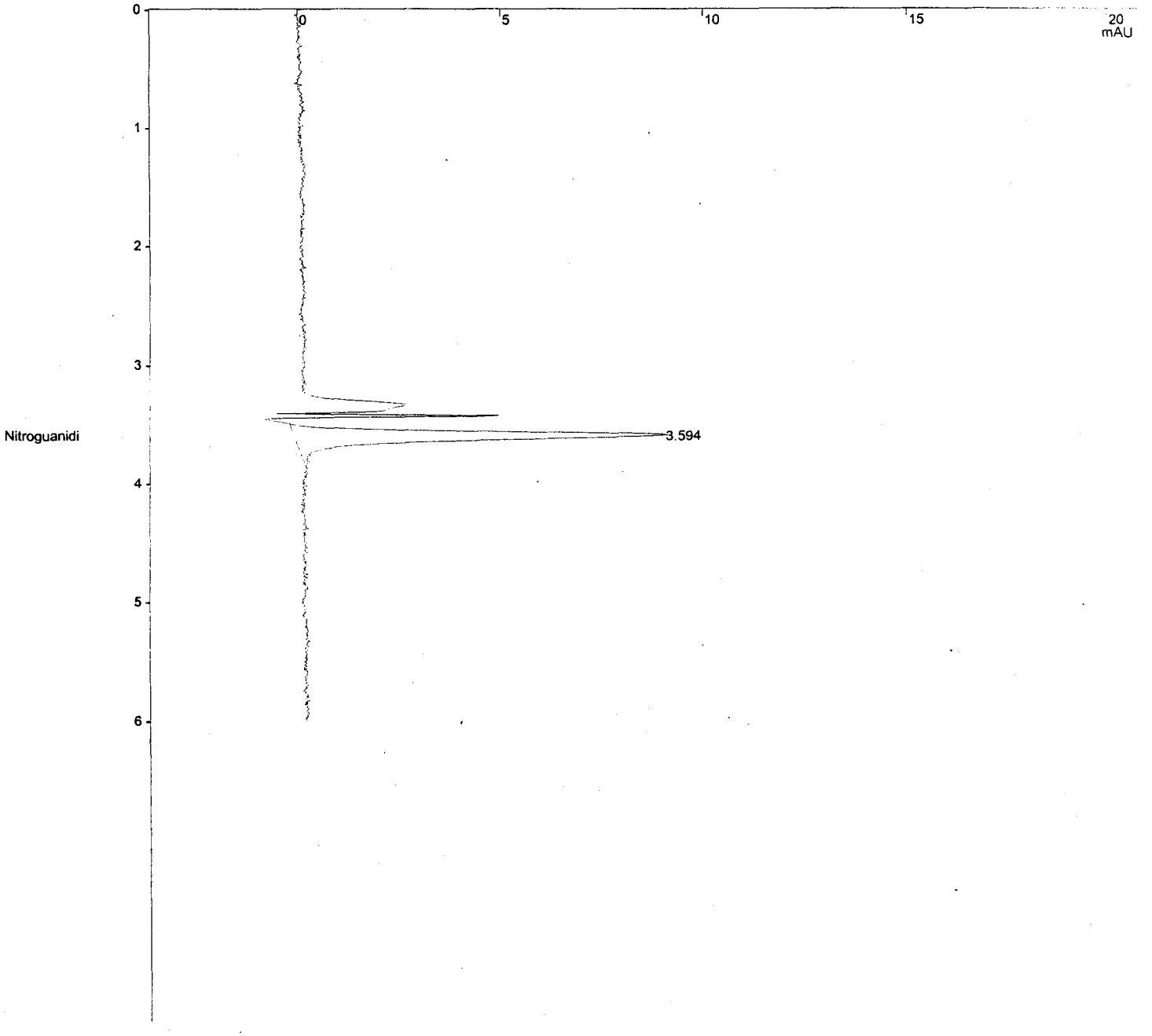
Injection Date: 3/3/2010 20:56 Calculation Date: 3/3/2010 21:04

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Verification Report

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=20;56;40-nq-09gcsv0430.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : 09GCSV0430

Injection Date: 3/3/2010 20:56 Calculation Date: 3/3/2010 21:04

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	Dev. %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
1	Nitroguanidi	200.0000	195.7374	2.1	3.594	0.002	1188	
	Totals:		195.7374			0.002	1188	

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 160 microAU

Noise (used): 175 microAU - monitored before this run

Vial: 14 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

NQ STD 200 ng/mL
****

Varian Star Workstation - RecalcList Tue Mar 09 17:22:54 2010

RecalcList: C:\Star\Sample list\NQ-03.08.2010001.RCL

Created: Mon Mar 08 12:18:43 2010
Modified: Tue Mar 09 01:53:14 2010

NQ Confirmation 3-3-10

WS-LC-0010

Line	Sample Type	Sample Name	Data F
1	Verification	Primer WS-LC-0010	3-8-2010=12;20;05-c18-primer ws-lc-0010.
2	Verification	Primer WS-LC-0010	3-8-2010=12;46;19-c18-primer ws-lc-0010.
3	Verification	Primer WS-LC-0010	3-8-2010=13;12;34-c18-primer ws-lc-0010.
4	Verification	Primer WS-LC-0010	3-8-2010=13;38;48-c18-primer ws-lc-0010.
5	Verification	Primer WS-LC-0010	3-8-2010=14;05;01-c18-primer ws-lc-0010.
6	Verification	Primer WS-LC-0010	3-8-2010=14;31;13-c18-primer ws-lc-0010.
7	Verification	Primer WS-LC-0010	3-8-2010=14;57;30-c18-primer ws-lc-0010.
8	Verification	Primer WS-LC-0010	3-8-2010=15;23;46-c18-primer ws-lc-0010.
9	Verification	Primer WS-LC-0010	3-8-2010=15;49;59-c18-primer ws-lc-0010.
10	Verification	primer	3-8-2010=16;16;14-c18-primer.
11	Verification	primer	3-8-2010=16;42;30-c18-primer.
12	Verification	primer	3-8-2010=17;08;48-c18-primer.
13	Verification	primer	3-8-2010=17;35;03-c18-primer.
14	Verification	primer	3-8-2010=18;01;16-c18-primer.
15	Verification	primer	3-8-2010=18;27;32-c18-primer.
16	Verification	primer	3-8-2010=18;53;46-c18-primer.
17	Verification	primer	3-8-2010=19;20;01-c18-primer.
18	Verification	primer	3-8-2010=19;46;14-c18-primer.
19	Verification	09GCSV0431	3-8-2010=20;12;31-c18-09gcsv0431
20	Analysis	G0B250000-283 MB	3-8-2010=20;38;48-c18-g0b250000-283 mb
21	Analysis	A0B160474-4	3-8-2010=21;05;00-c18-a0b160474-4
22	Analysis	A0B160474-5	3-8-2010=21;31;14-c18-a0b160474-5
23	Analysis	A0B180429-12	3-8-2010=21;57;29-c18-a0b180429-12
24	Analysis	A0B180524-1	3-8-2010=22;23;41-c18-a0b180524-1
25	Analysis	A0B180524-4	3-8-2010=22;49;55-c18-a0b180524-4
26	Analysis	A0B180524-5	3-8-2010=23;16;11-c18-a0b180524-5
27	Analysis	A0B190524-2	3-8-2010=23;42;28-c18-a0b190524-2
28	Analysis	A0B190524-3	3-9-2010=00;08;43-c18-a0b190524-3
29	Analysis	A0B190524-13	3-9-2010=00;34;58-c18-a0b190524-13
30	Verification	09GCSV0430	3-9-2010=01;01;14-c18-09gcsv0430
31	Analysis	BLANK	3-9-2010=01;43;03-c18-blank

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : C:\Star\data\03-2010\3-8-2010=20;12;31-c18-09gcsv0431.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : 09GCSV0431

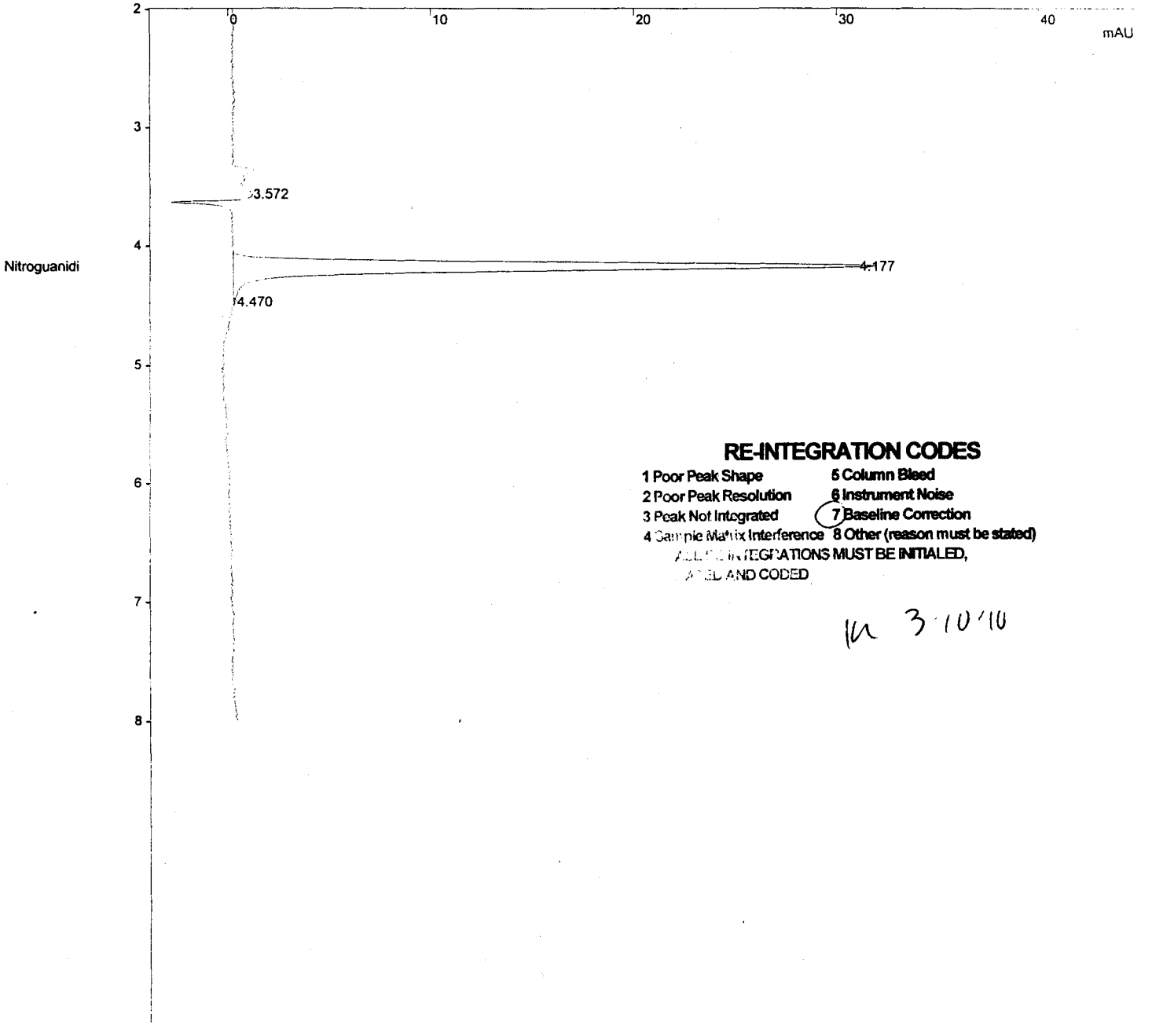
Injection Date: 3/8/2010 20:12 Calculation Date: 3/10/2010 15:31

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



RE-INTEGRATION CODES

1 Poor Peak Shape	5 Column Bleed
2 Poor Peak Resolution	6 Instrument Noise
3 Peak Not Integrated	7 Baseline Correction
4 Sample Matrix Interference	8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

lk 3/10/10

Verification Report

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : C:\Star\data\03-2010\3-8-2010=20;12;31-c18-09gcsv0431.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : 09GCSV0431

Injection Date: 3/8/2010 20:12 Calculation Date: 3/10/2010 15:31

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 5
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	Dev. %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
1		0.0000	0.0000	0.0	3.572	0.000	368	
2	Nitroguanidi	500.0000	556.0521	11.2	4.177	0.018	4162	
3		0.0000	0.0000	0.0	4.470	0.000	13	
	Totals:		556.0521			0.018	4543	

Total Unidentified Counts : 381 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 69 microAU

Noise (used): 236 microAU - monitored before this run

Vial: 16 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
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STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorbance at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/17/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

lm 3/10/10

Original Notes:

NQ STD 500 ng/mL

Appended Notes:

****

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\03-2010\3-8-2010=20;12;31-c18-09gcsv0431.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : 09GCSV0431

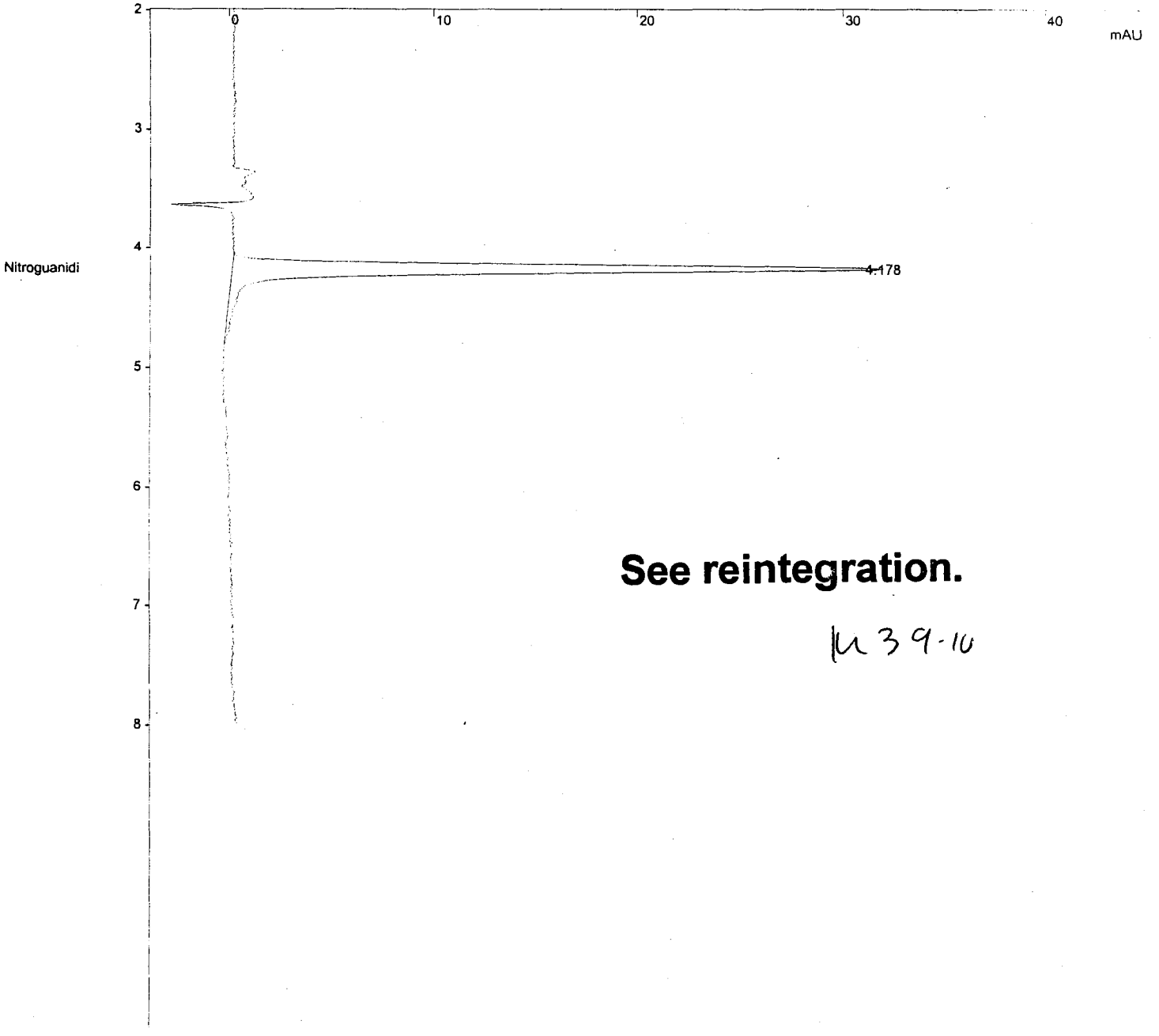
Injection Date: 3/8/2010 20:12 Calculation Date: 3/9/2010 17:27

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



See reintegration.

3-9-10

Verification Report

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\03-2010\3-8-2010=20;12;31-c18-09gcsv0431.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : 09GCSV0431

Injection Date: 3/8/2010 20:12 Calculation Date: 3/9/2010 17:27

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 5
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	Dev.✓ %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
1	Nitroguanidi	500.0000	549.2469	9.8	4.178	0.128	4111	
	Totals:		549.2469			0.128	4111	

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 69 microAU

Noise (used): 236 microAU - monitored before this run

Vial: 16 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorbance at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

See reintegration.

KM 3-9-10

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/17/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

Original Notes:

NQ STD 500 ng/mL

Appended Notes:

****

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\03-2010\3-8-2010=20;38;48-c18-g0b250000-283 mb.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : G0B250000-283 MB

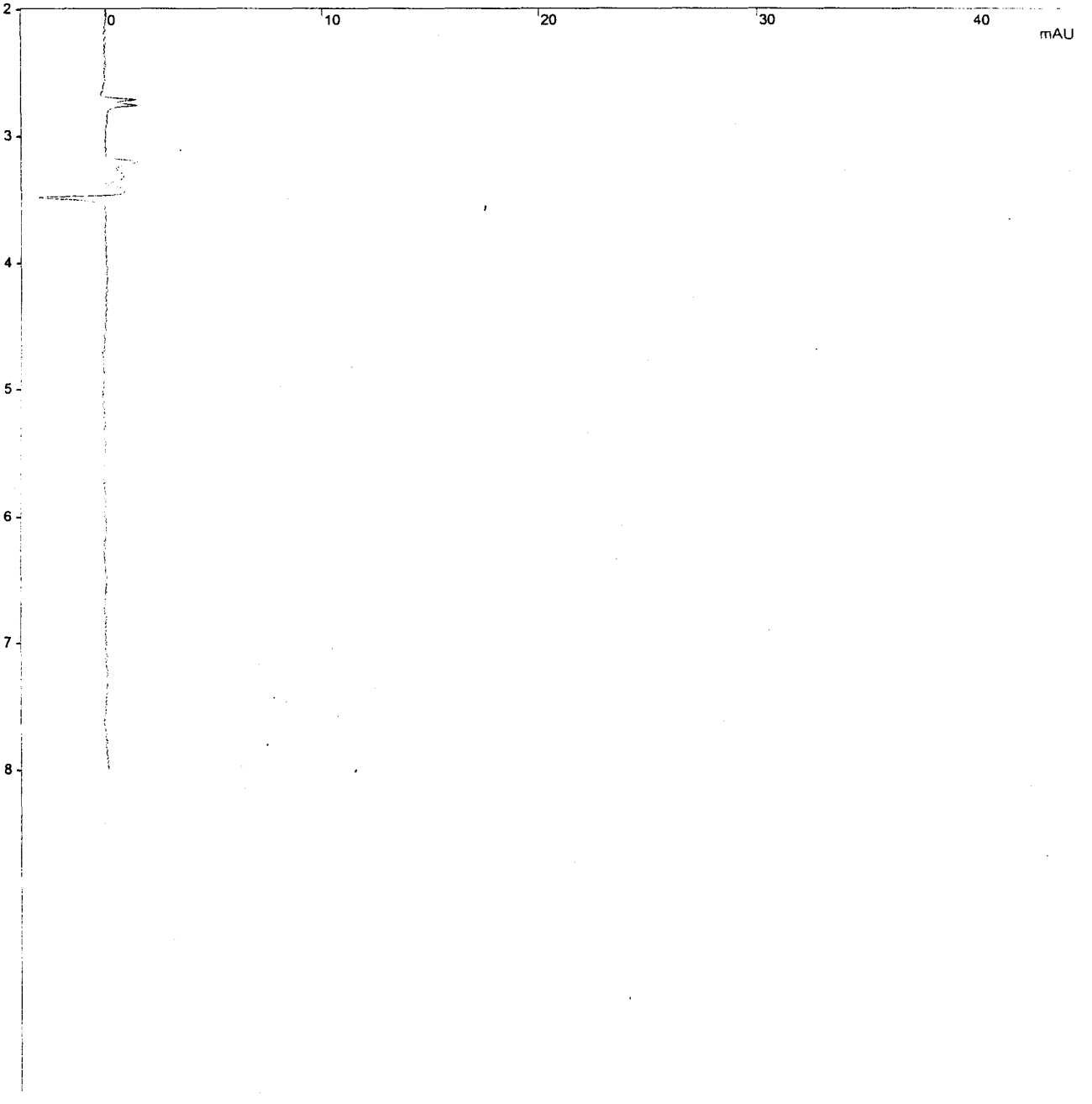
Injection Date: 3/8/2010 20:38 Calculation Date: 3/9/2010 17:27

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\03-2010\3-8-2010=20;38;48-c18-g0b250000-283 mb.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : G0B250000-283 MB

Injection Date: 3/8/2010 20:38 Calculation Date: 3/9/2010 17:27

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
Totals:		0.0000		0.000	0			

Total Unidentified Counts : 0 counts

Detected Peaks: 0 Rejected Peaks: 0 Identified Peaks: 0

Multiplier: 10 Divisor: 2 Unidentified Peak Factor: 0

Baseline Offset: 53 microAU

Noise (used): 160 microAU - monitored before this run

Vial: 63 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorba
nce at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/
9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow
rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/1
7/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009

Data Handling: No peaks

Original Notes:

0056283 MB, 2G/10ML

Appended Notes:

****

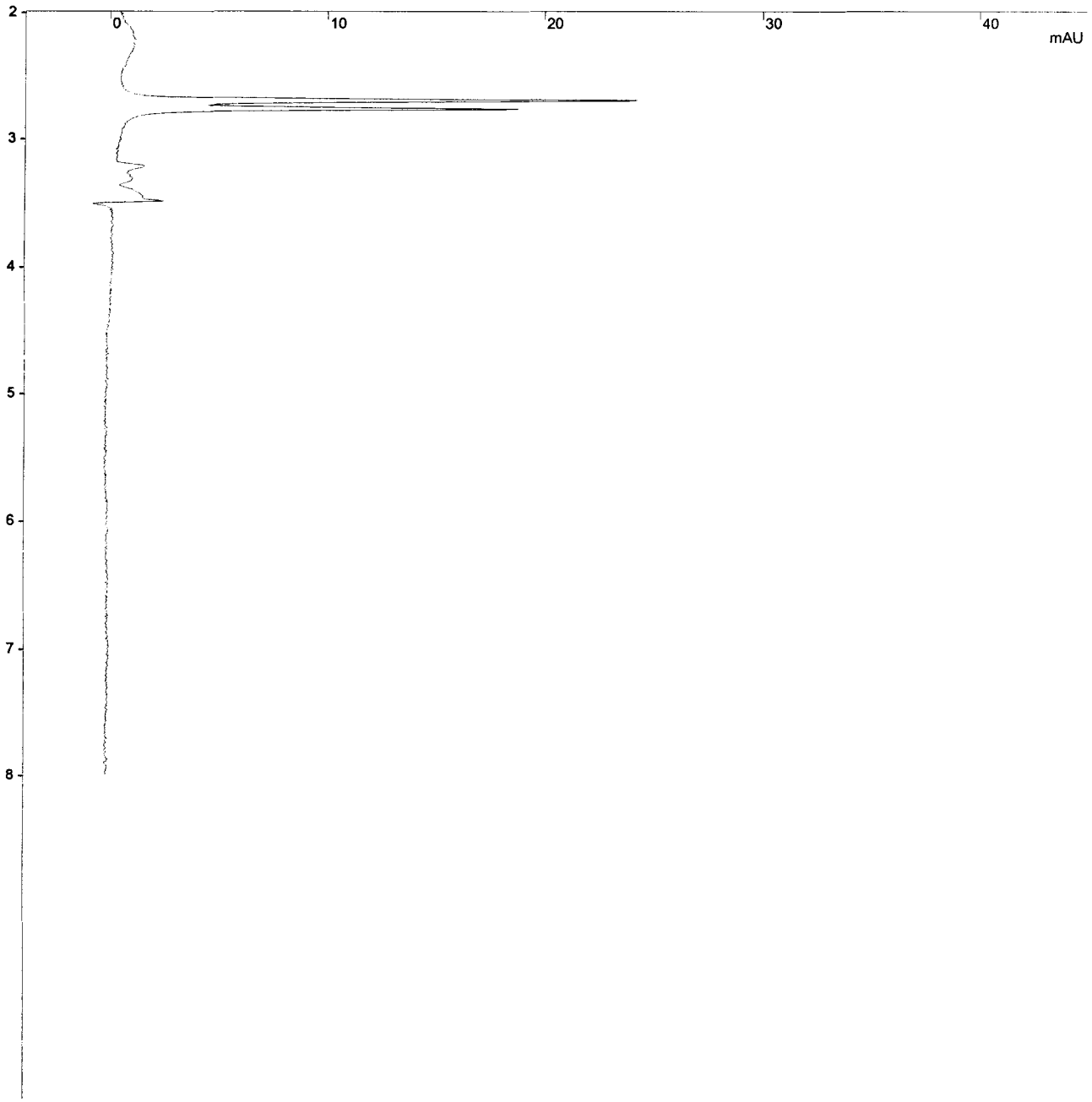
Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\03-2010\3-8-2010=21;57;29-c18-a0b180429-12.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : A0B180429-12

Injection Date: 3/8/2010 21:57 Calculation Date: 3/9/2010 17:28

Operator : KM Detector Type: 9065
Workstation: Bus Address : 4
Instrument : Varian Star #1 Sample Rate : 2.71 Hz
Channel : 16 = 263 nm Run Time : 9.996 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\03-2010\3-8-2010=21;57;29-c18-a0b180429-12.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : A0B180429-12

Injection Date: 3/8/2010 21:57 Calculation Date: 3/9/2010 17:28

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.996 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
Totals:		0.0000		0.000	0			

Total Unidentified Counts : 0 counts

Detected Peaks: 0 Rejected Peaks: 0 Identified Peaks: 0

Multiplier: 10 Divisor: 2.01 Unidentified Peak Factor: 0

Baseline Offset: -45 microAU

Noise (used): 129 microAU - monitored before this run

Vial: 77 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorbance at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/17/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

Data Handling: No peaks

Original Notes:

LVTTO1A8 2.01G/10ML

Appended Notes:

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Title : Nitroguanidine Analysis on SCA 3 .05: mm.
Run File : C:\Star\data\03-2010\3-9-2010=01;01;14-ci8-09gcsv0430.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : 09GCSV0430

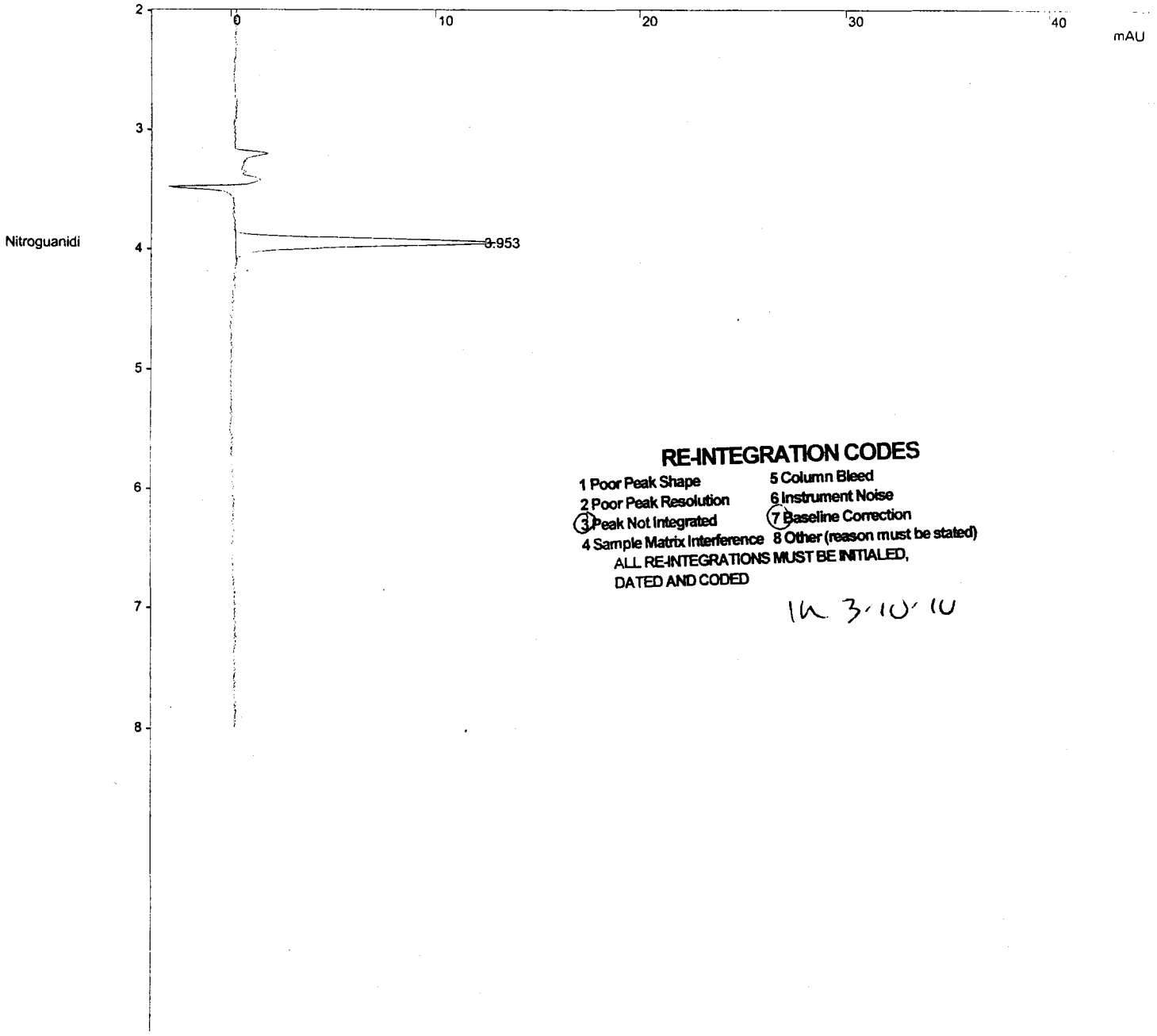
Injection Date: 3/9/2010 01:01 Calculation Date: 3/10/2010 13:00

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

IK 3.10.10

Verification Report

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : C:\Star\data\03-2010\3-9-2010=01;01;14-c18-09gcsv0430.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : 09GCSV0430

Injection Date: 3/9/2010 01:01 Calculation Date: 3/10/2010 13:00

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	Dev. %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
1	Nitroguanidi	200.0000	221.9888	11.0	3.953	-0.053	1661	
	Totals:		221.9888			-0.053	1661	

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 15 microAU

Noise (used): 228 microAU - monitored before this run

Vial: 14 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorbance at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/17/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

Original Notes:

NQ STD 200 ng/mL

Appended Notes:

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Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\03-2010\3-9-2010=01;01;14-c18-09gcsv0430.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : 09GCSV0430

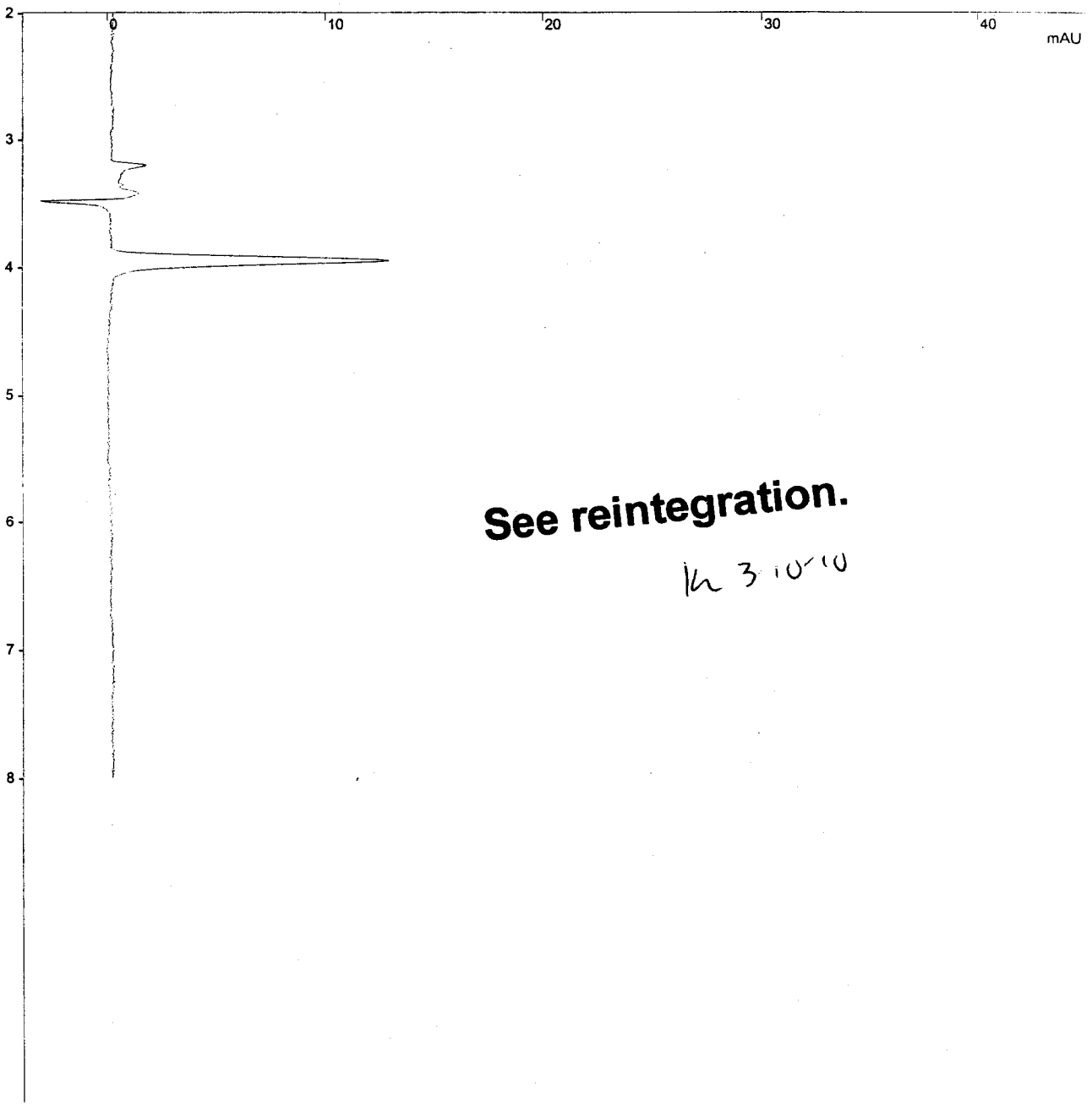
Injection Date: 3/9/2010 01:01 Calculation Date: 3/9/2010 17:39

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



See reintegration.

lh 3/10/10

Verification Report

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\03-2010\3-9-2010=01;01;14-c18-09gcsv0430.run
Method File : c:\star\methods\nq_c18_235332-4_08272009.mth
Sample ID : 09GCSV0430

Injection Date: 3/9/2010 01:01 Calculation Date: 3/9/2010 17:39

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	Dev. %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
Totals:			0.0000			0.000	0	

Total Unidentified Counts : 0 counts

Detected Peaks: 0 Rejected Peaks: 0 Identified Peaks: 0

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 15 microAU

Noise (used): 228 microAU - monitored before this run

Vial: 14 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorba
nce at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/
9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow
rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

See reintegration.
In 3-10-10

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/1
7/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

Data Handling: No peaks

Original Notes:

NQ STD 200 ng/mL

Appended Notes:

****

Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

10/22/09 10139 ~~US3648-5~~

GC/HPLC ICAL Checklist

Instrument ID: PDA-1 ICAL ID: 10032009 Method: NQ-Nitro

Analytes included in curve (with dates): Nitroguanidine

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	—	✓	
2. ICAL Runlog included.	—	✓	
3. ICV included and moved to after summary.	—	✓	
4. PEM meets requirements and is included for 8081.			—
5. Alkane Marker included for 8015 TPH.			—
6. ICAL Raw Data included for all analytes.	—	✓	
B. ICAL Summary			
1. All analytes meet %RSD or linear regression requirements.	—	✓	
2. ICAL meets requirements stated in SOP.	—	✓	
2. Any levels dropped are reviewed and appropriate.			—
3. All analytes in ICAL are in the ICAL summary.	—	✓	
4. RFs are calculated correctly. Perform Manual calculation.	—	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			—
2. All peaks correctly identified.	—	✓	
3. No analytes have saturated peaks.	—	✓	
4. RT windows set correctly (8015 TPH).		~~✓~~ NA	—
5. ICV meets requirements and is run after the ICAL.	—	✓	
6. Standards used in ICAL are current.	—	✓	
7. ICAL is copied to source method.			—

Curve Valid for:	Yes	No	Criteria
Standard SOP	—		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	—		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	—		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	—		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

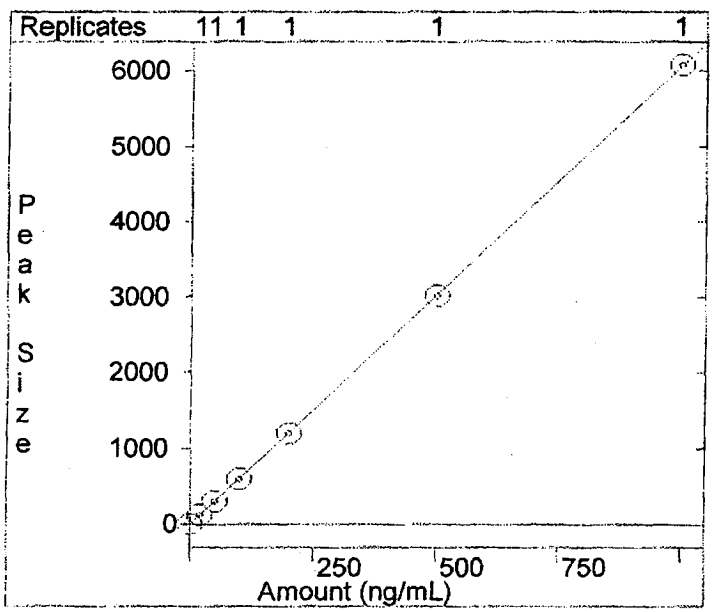
Analyst: [signature] Date: 10/14/09

Reviewer: [signature] Date: 10/14/2009

Comments:

Print Date: 04 Oct 2009 01:04:05
Calibration Curves Report
File: c:\star\methods\nq_amino_10139_10032009.mth
Detector: 9065 Polychrom, Address: 4, Channel ID: 16

Nitroguanidine
External Standard Analysis
Resp. Fact. RSD: 1.704%
Curve Type: Linear
Origin: Force
Coeff. Det.(r^2): 0.999984
y = +6.0717e+000x



1984

Title	:	Calibration Block Report			
Method File	:	c:\star\methods\nq_amino_10139_10032009.mth			
Data Method Time	:	10/4/2009 00:53			
Requested Curve Type	:	linear	Method Detector Type	:	9065 Polychrom
Requested Origin	:	force	Method Bus Address	:	4
Calibration Type	:	External Standard Analysis	Method Channel	:	16
Calibration Dates					
Last Injection Date	:	10/4/2009 00:45	Last Recalculation Date	:	10/4/2009 00:53

**********Star Chromatography Workstation**********Version 5.52**********

Retention Time (min)	Peak Name	Curve\ Origin	X³	X²	X	C	r²	Cal. Range	No. of Points	Edit Codes
3.688	Nitroguanidine	1 F			+6.0717e+000	+0.0000e+000	+9.9998e-001	1 - 6	6	

Curve Codes	Origin Codes	Edit Codes
1 linear	I include	1 curve
2 quadratic	IG ignore	2 origin
3 cubic	F force	3 coefficient

Ret. Time: 3.688 min.
Peak Name: Nitroguanidine
Peak Measurement: Height
Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	20.000000	1	126	126.0	#
2	50.000000	1	305	304.9	#
3	100.000000	1	604	603.6	#
4	200.000000	1	1205	1204.8	#
5	500.000000	1	3019	3018.8	#
6	1000.000000	1	6082	6082.3	#

$\frac{604}{100} = 6.04$

= Too few points to calculate.

Peak Name	Level	Rep.	Injection Date Time	Run Files
Nitroguanidine	1	1	10/3/2009 23:08	c:\star\data\10.2009\nq-10-3-2009=23;08;05-09gcsv0~~100~~.run 427
	2	1	10/3/2009 23:27	c:\star\data\10.2009\nq-10-3-2009=23;27;33-09gcsv0~~110~~.run 428
	3	1	10/3/2009 23:47	c:\star\data\10.2009\nq-10-3-2009=23;47;03-09gcsv0~~111~~.run 429
	4	1	10/4/2009 00:06	c:\star\data\10.2009\nq-10-4-2009=00;06;31-09gcsv0~~112~~.run 430
	5	1	10/4/2009 00:26	c:\star\data\10.2009\nq-10-4-2009=00;26;01-09gcsv0~~113~~.run 431
	6	1	10/4/2009 00:45	c:\star\data\10.2009\nq-10-4-2009=00;45;32-09gcsv0~~114~~.run 432

10/23/09

North Canton

****

Varian Star Workstation - RecalcList Tue Oct 06 13:19:13 2009

RecalcList: C:\Star\Sample list\NQ-10.03.2009B.RCL

Created: Sat Oct 03 19:41:38 2009
Modified: Sun Oct 04 02:48:41 2009

****

NQ Analysis 3 October 2009
WS-LC-0010

Line	Sample Type	Sample Name		Data File	In
1	Verification	Primer WS-LC-0010		nq-10-3-2009=19;53;16-primer ws-lc-0010.run	
2	Verification	Primer WS-LC-0010		nq-10-3-2009=20;12;44-primer ws-lc-0010.run	
3	Verification	Primer WS-LC-0010		nq-10-3-2009=20;32;11-primer ws-lc-0010.run	
4	Verification	Primer WS-LC-0010		nq-10-3-2009=20;51;40-primer ws-lc-0010.run	
5	Verification	Primer WS-LC-0010		nq-10-3-2009=21;11;10-primer ws-lc-0010.run	
6	Verification	Primer WS-LC-0010		nq-10-3-2009=21;30;38-primer ws-lc-0010.run	
7	Verification	Primer WS-LC-0010		nq-10-3-2009=21;50;06-primer ws-lc-0010.run	
8	Verification	Primer WS-LC-0010		nq-10-3-2009=22;09;32-primer ws-lc-0010.run	
9	Verification	Primer WS-LC-0010		nq-10-3-2009=22;29;03-primer ws-lc-0010.run	
10	Analysis	Blank		nq-10-3-2009=22;48;34-blank.run	
11	New Calib Block		(A) 10/22/09		
12	Calibration	09GCSV0~~109~~	427 (A)	nq-10-3-2009=23;08;05-09gcsv0109.run	
13	Calibration	09GCSV0~~110~~	428 (A)	nq-10-3-2009=23;27;33-09gcsv0110.run	
14	Calibration	09GCSV0~~111~~	429 (A)	nq-10-3-2009=23;47;03-09gcsv0111.run	
15	Calibration	09GCSV0~~112~~	430 (A)	nq-10-4-2009=00;06;31-09gcsv0112.run	
16	Calibration	09GCSV0~~113~~	431 (A)	nq-10-4-2009=00;26;01-09gcsv0113.run	
17	Calibration	09GCSV0~~114~~	432 (A)	nq-10-4-2009=00;45;32-09gcsv0114.run	
18	Print Calib				
19	Verification	09GCSV0380 ICV		nq-10-4-2009=01;05;10-09gcsv0380 icv.run	
20	Analysis	09GCSV0~~108~~ 426 2XMDL	(A)	nq-10-4-2009=01;24;38-09gcsv0108 2xmdl.run	
21	Analysis	Blank		nq-10-4-2009=01;44;11-blank.run	
22	Verification	08GCSV0~~112~~	430 (A)	nq-10-4-2009=02;03;41-08gcsv0112.run	
23	Analysis	BLANK		nq-10-4-2009=02;38;29-blank.run	

page 6

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=01;05;10-09gcsv0380 icv.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0380 ICV

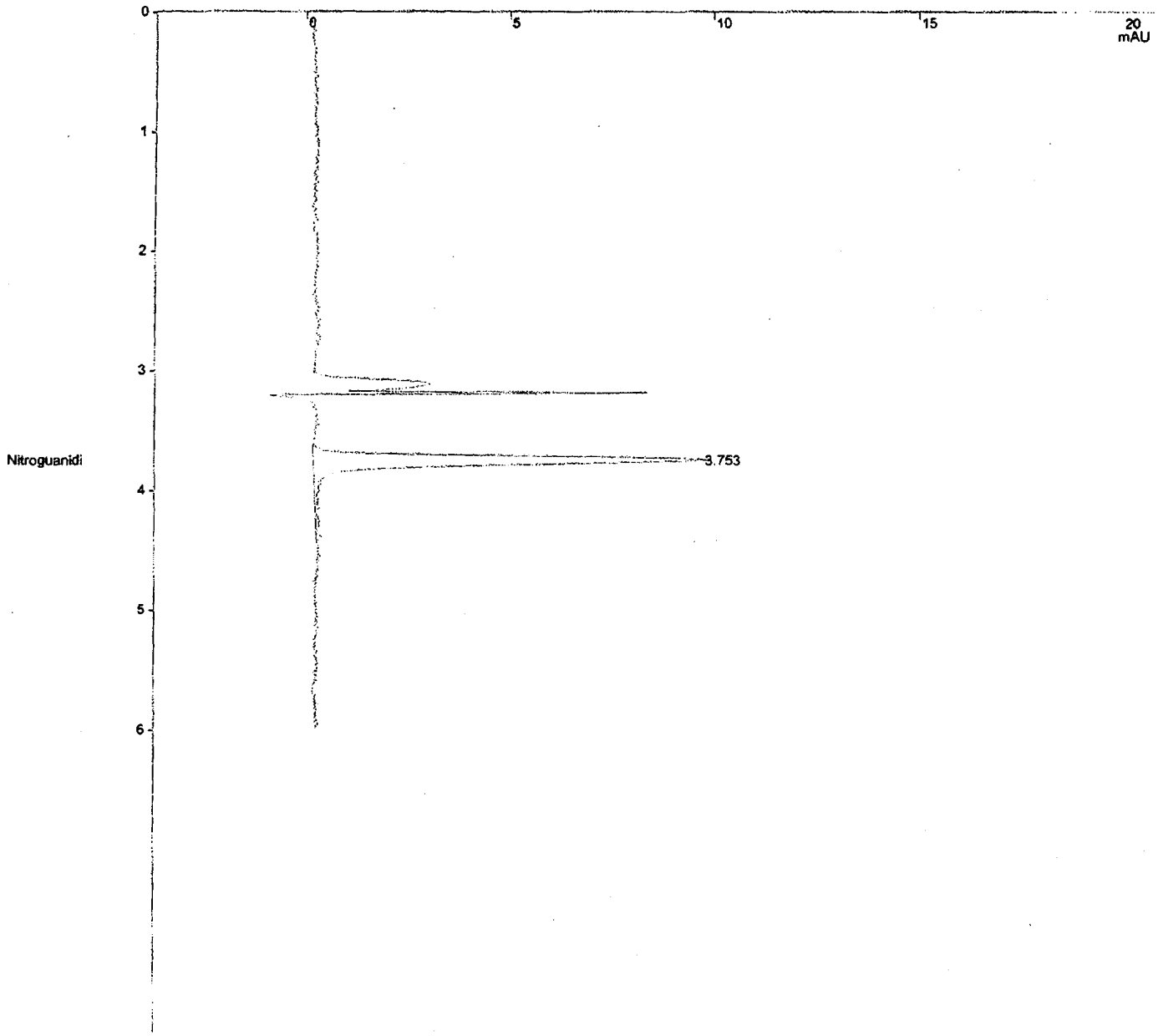
Injection Date: 10/4/2009 01:05 Calculation Date: 10/4/2009 01:13

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Verification Report

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009-01;05;10-09gcsv0380 icv.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0380 ICV

Injection Date: 10/4/2009 01:05 Calculation Date: 10/4/2009 01:13

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	Dev. %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
1	Nitroguanidi	200.0000	206.5399	3.3	3.753	0.065	1254	
Totals:			206.5399			0.065	1254	

Total Unidentified Counts : 0 counts

Detected Peaks: 2 Rejected Peaks: 1 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 84 microAU

Noise (used): 167 microAU - monitored before this run

Vial: 4 Injection Number: 1 Full Loop Volume: 50 ul

ICV passes criteria ± 15%
fhk 10/14/09

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Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0380, NQ Std at 200ng/mL; Second Source Standard.
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Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=22;48;34-blank.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : Blank

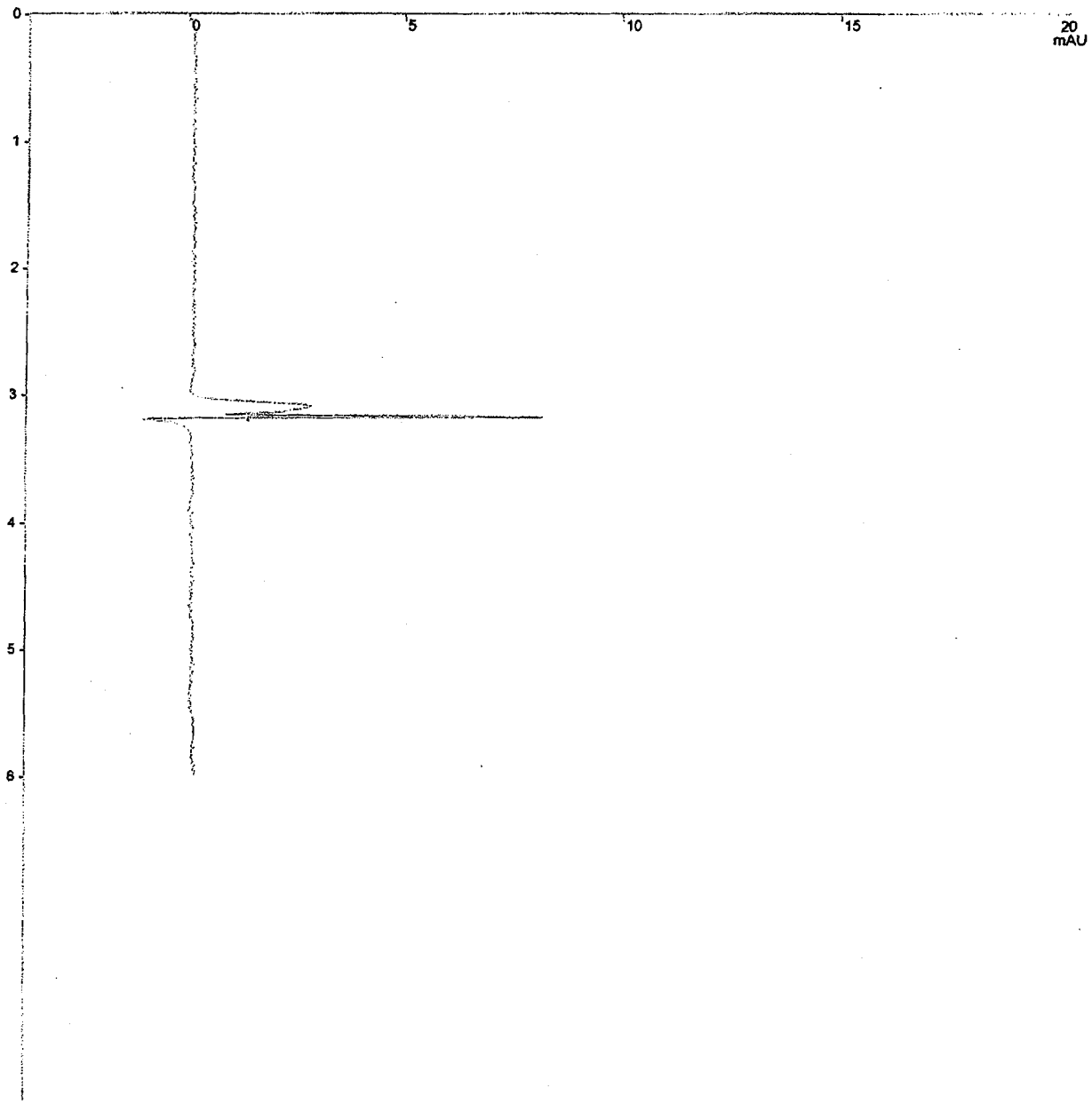
Injection Date: 10/3/2009 22:48 Calculation Date: 10/3/2009 22:56

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=22;48;34-blank.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : Blank

Injection Date: 10/3/2009 22:48 Calculation Date: 10/3/2009 22:56

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
Totals:		0.0000		0.000	0			

Total Unidentified Counts : 0 counts

Detected Peaks: 0 Rejected Peaks: 0 Identified Peaks: 0

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 31 microAU

Noise (used): 144 microAU - monitored before this run

Vial: 1 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Data Handling: No peaks

Original Notes:

Blank
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Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;08;05-09gcsv0109.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~109~~427 10/22/09

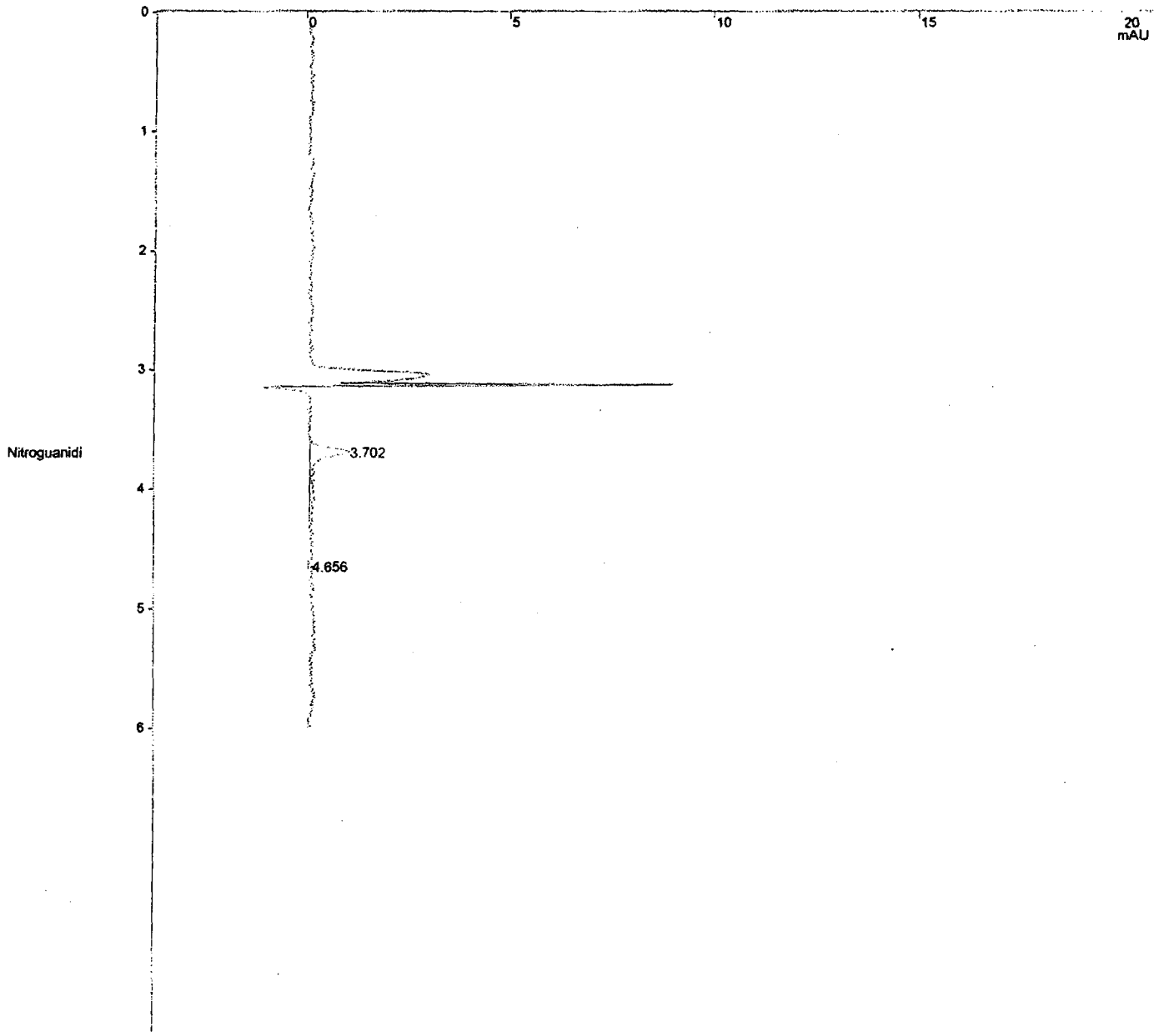
Injection Date: 10/3/2009 23:08 Calculation Date: 10/3/2009 23:16

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;08;05-09gcsv0109.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~109~~127 JM 10/22/09

Injection Date: 10/3/2009 23:08 Calculation Date: 10/3/2009 23:16

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 1

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.702	-0.065	126	BB	4.6	
2		4.656	0.000	17	BB	1.6	
	Totals:		-0.065	143			

Total Unidentified Counts : 17 counts

Detected Peaks: 2 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 130 microAU

Noise (used): 152 microAU - monitored before this run

Vial: 8 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA , absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, installed 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250 x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 and 09GCSV0380 (ICV).

Original Notes:

09GCSV0109, NQ Std at 20ng/mL.
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Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;27;33-09gcsv0110.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~110-428~~ 10/22/09

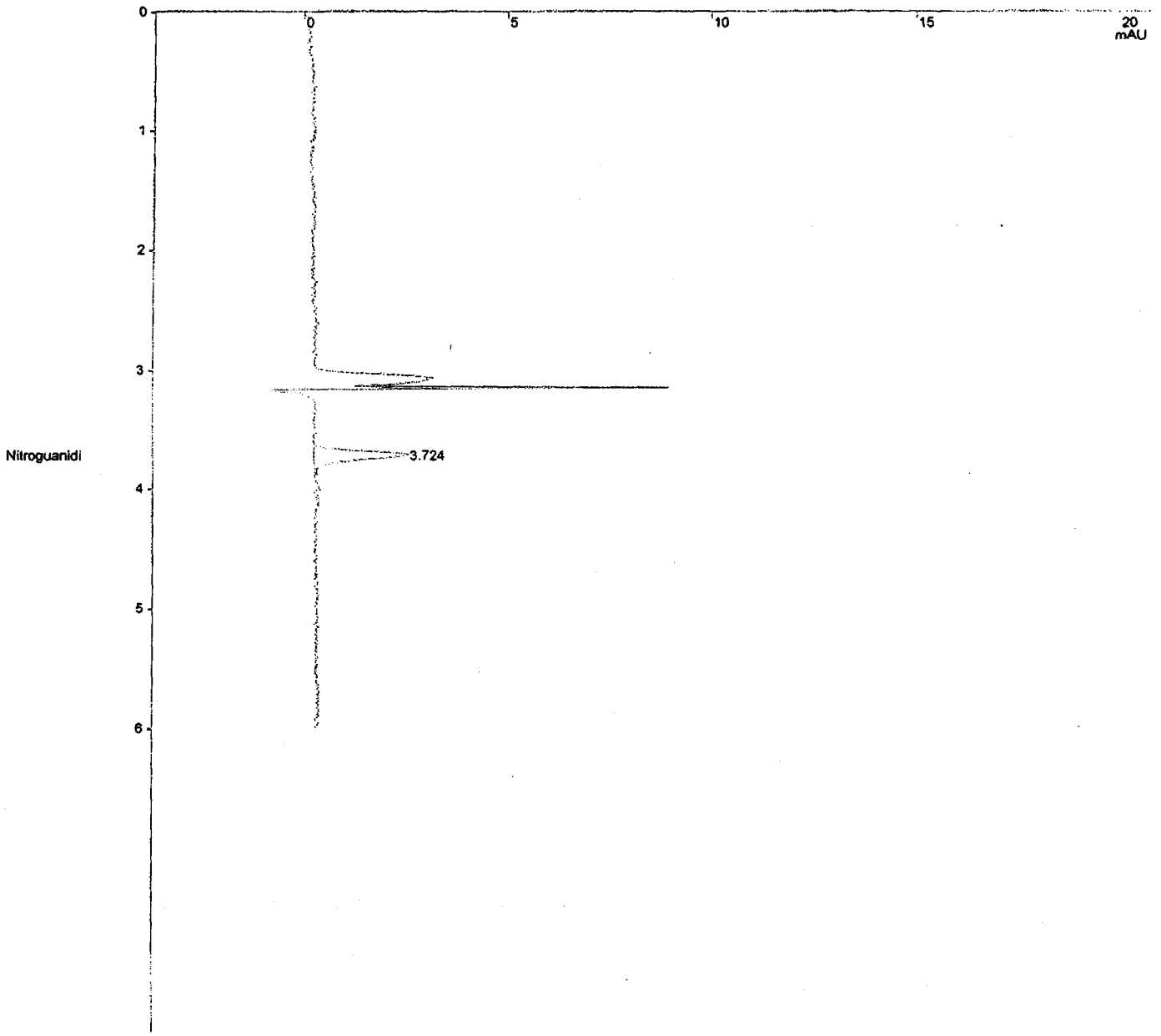
Injection Date: 10/3/2009 23:27 Calculation Date: 10/3/2009 23:35

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;27;33-09gcsv0110.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~110~~ 4r8 GMC 10/22/09

Injection Date: 10/3/2009 23:27 Calculation Date: 10/3/2009 23:35

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 2

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.724	0.022	305	BB	4.7	
	Totals:		0.022	305			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 38 microAU

Noise (used): 152 microAU - monitored before this run

Vial: 10 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0110, NQ Std at 50ng/mL.
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;47;03-09gcsv0111.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~111~~ 2429 10/22/09

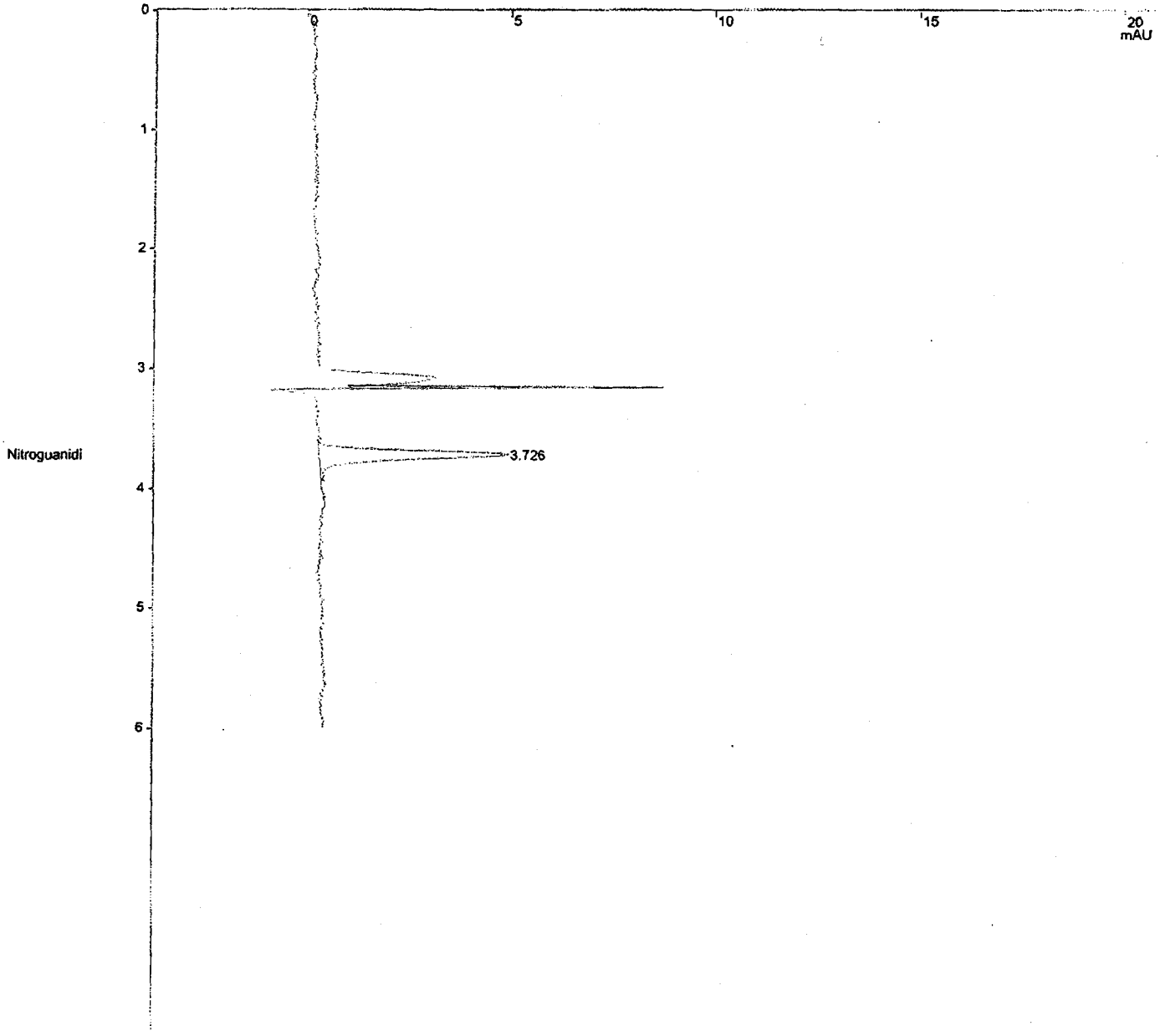
Injection Date: 10/3/2009 23:47 Calculation Date: 10/3/2009 23:55

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;47;03-09gcsv0111.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~111~~429 10/22/09

Injection Date: 10/3/2009 23:47 Calculation Date: 10/3/2009 23:55

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 3

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.726	0.003	604	BB	4.6	
	Totals:		0.003	604			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 267 microAU

Noise (used): 144 microAU - monitored before this run

Vial: 12 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0111, NQ Std at 100ng/mL.
****

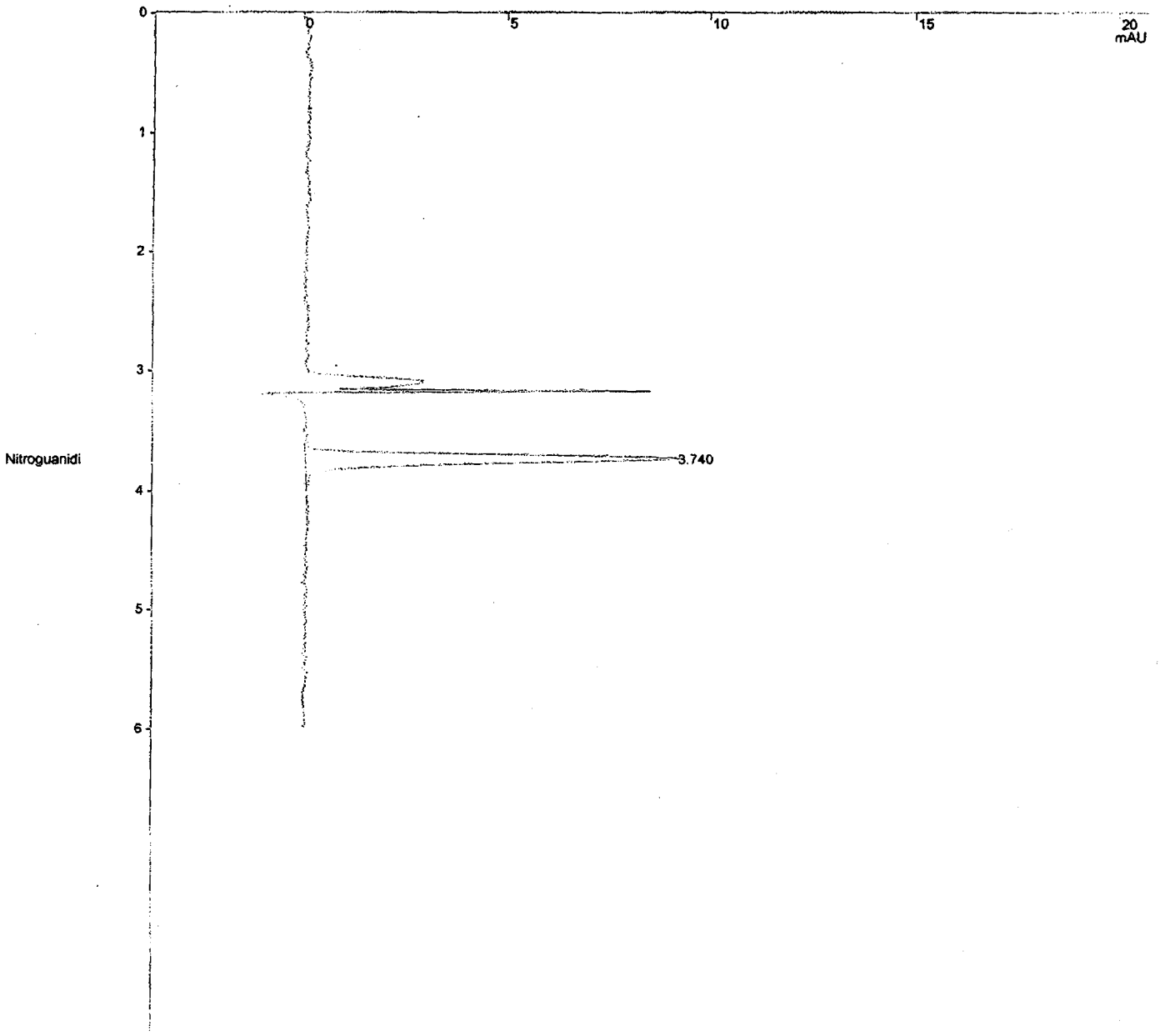
Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=00;06;31-09gcsv0112.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~112~~430 fhk 10/22/09

Injection Date: 10/4/2009 00:06 Calculation Date: 10/4/2009 00:14

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=00;06;31-09gcsv0112.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~112~~430 fhk 10/22/09

Injection Date: 10/4/2009 00:06 Calculation Date: 10/4/2009 00:14

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.740	0.014	1205	BB	4.6	
	Totals:		0.014	1205			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 160 microAU

Noise (used): 129 microAU - monitored before this run

Vial: 14 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=USTO010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0112, NQ Std at 200ng/mL.
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Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=00;26;01-09gcsv0113.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~113~~43 | 10/22/09

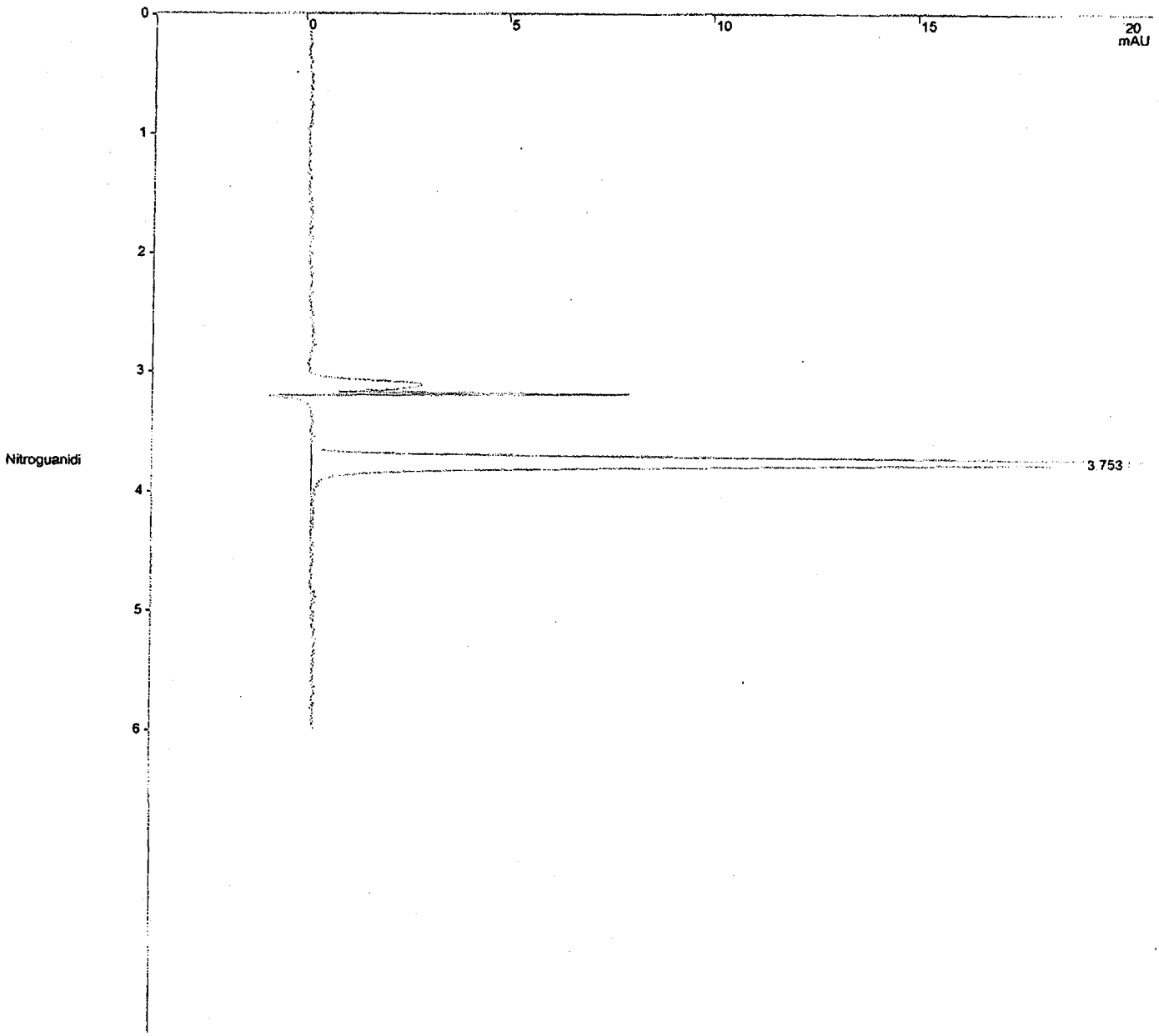
Injection Date: 10/4/2009 00:26 Calculation Date: 10/4/2009 00:34

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009-00;26;01-09gcsv0113.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~113~~ 431 JMC 10/22/09

Injection Date: 10/4/2009 00:26 Calculation Date: 10/4/2009 00:34

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 5

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.753	0.013	3019	BB	4.6	
	Totals:		0.013	3019			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 137 microAU

Noise (used): 183 microAU - monitored before this run

Vial: 16 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA , absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, installed 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250 x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 and 09GCSV0380 (ICV).

Original Notes:

09GCSV0113, NQ Std at 500ng/mL.
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=00;45;32-09gcsv0114.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~114~~32 BM 10/22/09

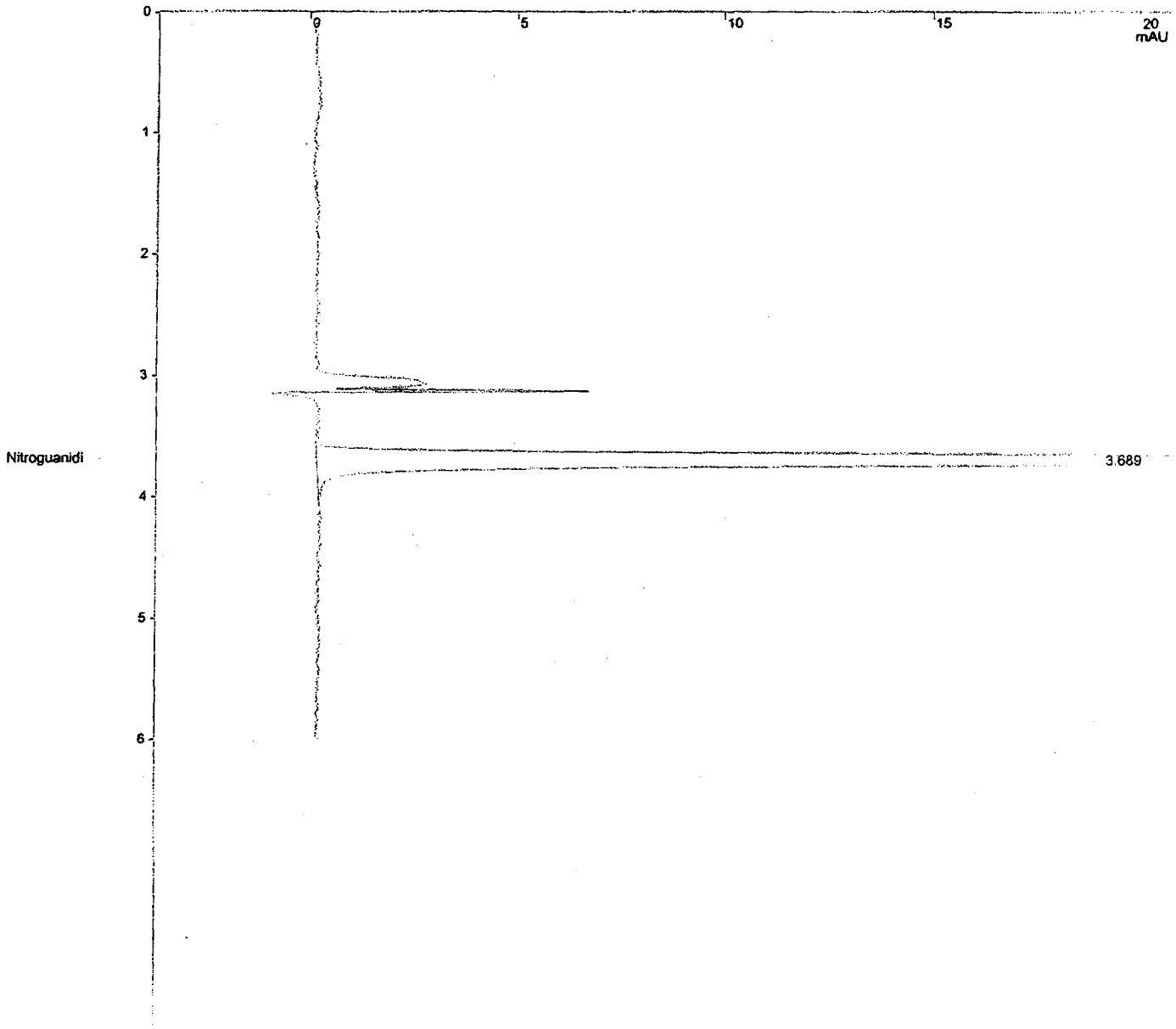
Injection Date: 10/4/2009 00:45 Calculation Date: 10/4/2009 00:53

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=00;45;32-09gcsv0114.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~114~~ 432 JHK 10/22/09

Injection Date: 10/4/2009 00:45 Calculation Date: 10/4/2009 00:53

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 6

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.689	-0.063	6082	BB	4.7	
	Totals:		-0.063	6082			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 122 microAU

Noise (used): 190 microAU - monitored before this run

Vial: 18 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0114, NQ Std at 1000ng/mL.
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=01;24;38-09gcsv0108 2xmdl.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~108~~ 426 2XMDL FHK 10/22/09

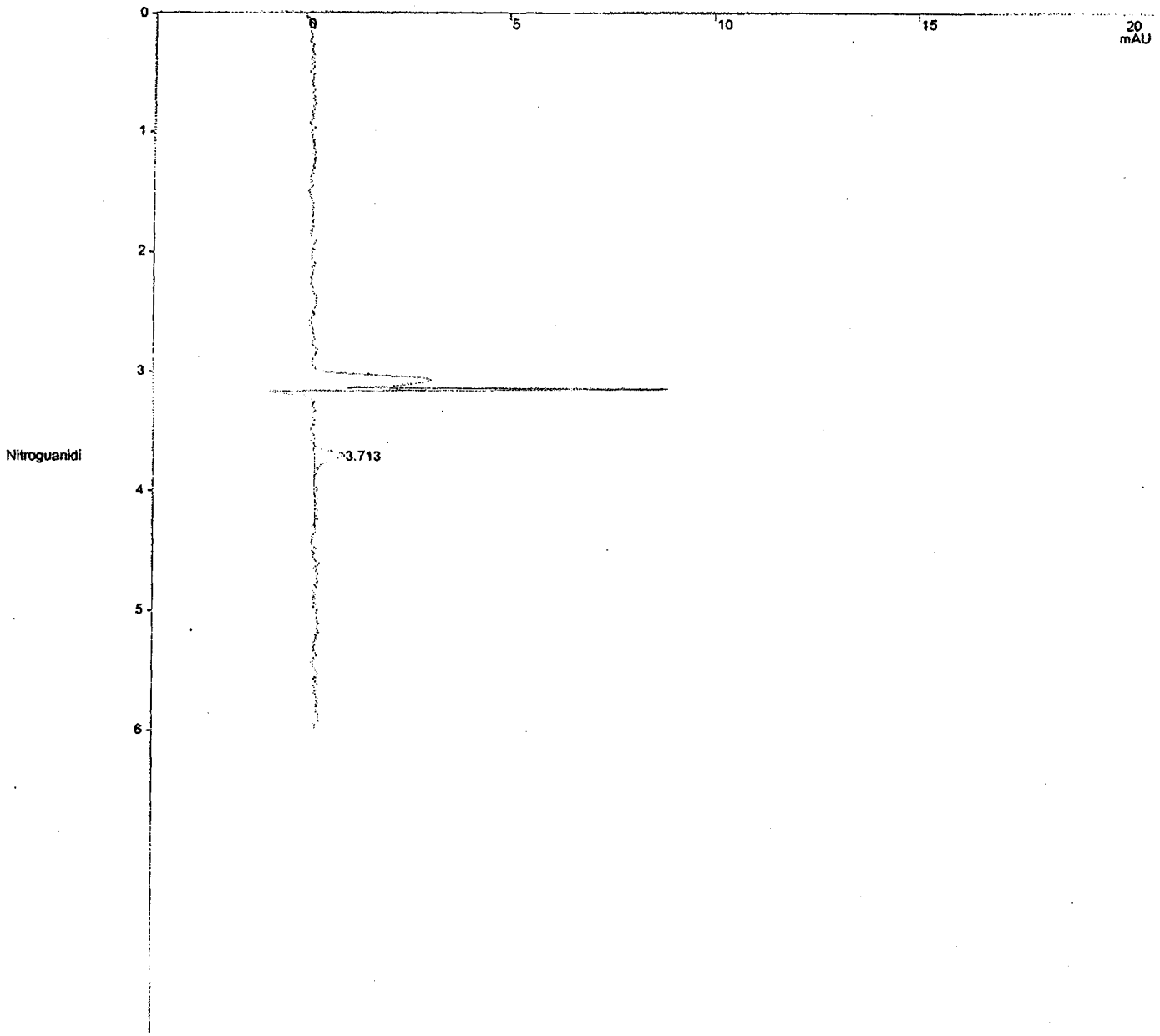
Injection Date: 10/4/2009 01:24 Calculation Date: 10/4/2009 01:32

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009-01;24;38-09gcsv0108 2xmdl.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0108 2XMDL

Injection Date: 10/4/2009 01:24 Calculation Date: 10/4/2009 01:32

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	16.2289	3.713	0.025	99	BB	5.3	
	Totals:	16.2289		0.025	99			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 92 microAU

Noise (used): 221 microAU - monitored before this run

Vial: 6 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0108, NQ Std at 15ng/mL; 2 times MDL.
****

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

GC/HPLC ICAL Checklist

Instrument ID: PDA-1 ICAL ID: C18-235332-4 0827-2009 Method: Nitroguanidine

Analytes Included in curve (with dates): Nitroguanidine

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	—	✓	
2. ICAL Runlog included.	—	✓	
3. ICV included and moved to after summary.	—	✓	
4. PEM meets requirements and is included for 8081.			—
5. Alkane Marker included for 8015 TPH.			—
6. ICAL Raw Data included for all analytes.	—	✓	
B. ICAL Summary			
1. All analytes meet %RSD or linear regression requirements.	—	✓	
2. ICAL meets requirements stated in SOP.	—	✓	
2. Any levels dropped are reviewed and appropriate.			—
3. All analytes in ICAL are in the ICAL summary.	—	✓	
4. RFs are calculated correctly. Perform Manual calculation.	—	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			—
2. All peaks correctly identified.	—	✓	
3. No analytes have saturated peaks.	—	✓	
4. RT windows set correctly (8015 TPH).			—
5. ICV meets requirements and is run after the ICAL.	—	✓	
6. Standards used in ICAL are current.	—	✓	
7. ICAL is copied to source method.	NA		—

Curve Valid for:	Yes	No	Criteria
Standard SOP	—		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	—		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	—		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	—		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

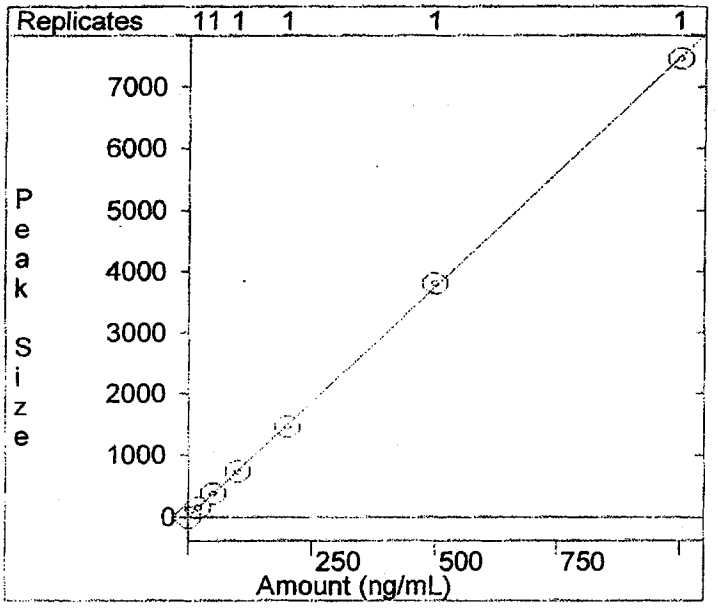
Analyst: [signature] Date: 8/27/09

Reviewer: J.Nihart Date: 8/29/09

Comments:

Print Date: 27 Aug 2009 18:20:04
Calibration Curves Report
File: c:\star\methods\nq_c18_235332-4_08272009.mth
Detector: 9065 Polychrom, Address: 4, Channel ID: 16

Nitroguanidine
External Standard Analysis
Resp. Fact. RSD: 2.016%
Curve Type: Linear
Origin: Force
Coeff. Det.(r^2): 0.999879
y = +7.4843e+000x



2006

Title	:	Calibration Block Report			
Method File	:	c:\star\methods\nq_c18_235332-4_08272009.mth			
Data Method Time	:	8/27/2009 18:04			
Requested Curve Type	:	linear	Method Detector Type	:	9065 Polychrom
Requested Origin	:	force	Method Bus Address	:	4
Calibration Type	:	External Standard Analysis	Method Channel	:	16
Calibration Dates					
Last Injection Date	:	8/27/2009 17:54	Last Recalculation Date	:	8/27/2009 18:04

**********Star Chromatography Workstation**********Version 5.52**********

Retention Time (min)	Peak Name	Curve\ Origin	X^3	X^2	X	C	r^2	Cal. Range	No. of Points	Edit Codes
4.309	Nitroguanidine	1 F			+7.4843e+000	+0.0000e+000	+9.9988e-001	1-6	6	

Curve Codes	Origin Codes	Edit Codes
1 linear	I include	1 curve
2 quadratic	IG ignore	2 origin
3 cubic	F force	3 coefficient

JMP 8/29/09

Ret. Time: 4.309 min.
Peak Name: Nitroguanidine
Peak Measurement: Height
Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	20.000000	1	155	155.0	#
2	50.000000	1	377	377.3	#
3	100.000000	1	740	740.0	#
4	200.000000	1	1466	1466.2	#
5	500.000000	1	3804	3803.9	#
6	1000.000000	1	7460	7460.1	#

= Too few points to calculate.

Peak Name	Level	Rep.	Injection Date Time	Run Files
Nitroguanidine	1	1	8/27/2009 15:43	c:\... \08.2009\nq-c18-8-27-2009=15;43;15-ical 1; 20.run
	2	1	8/27/2009 16:09	c:\... \08.2009\nq-c18-8-27-2009=16;09;29-ical 2; 50.run
	3	1	8/27/2009 16:35	c:\... \08.2009\nq-c18-8-27-2009=16;35;45-ical 3; 100.run
	4	1	8/27/2009 17:01	c:\... \08.2009\nq-c18-8-27-2009=17;02;00-ical 4; 200.run
	5	1	8/27/2009 17:28	c:\... \08.2009\nq-c18-8-27-2009=17;28;16-ical 5; 500.run
	6	1	8/27/2009 17:54	c:\... \08.2009\nq-c18-8-27-2009=17;54;31-ical 6; 1000.run

North Canton

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Varian Star Workstation - RecalcList Fri Aug 28 13:08:39 2009

RecalcList: C:\Star\Sample list\NQ-C18-08.27.2009.RCL

Created: Thu Aug 27 12:38:07 2009
Modified: Fri Aug 28 10:31:45 2009

NQ Confirmation 27 August 2009

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WS-LC-0010

Line	Sample Type	Sample Name	Data File	In
1	Verification	Primer WS-LC-0010	nq-c18-8-27-2009=12;39;28-primer ws-lc-0010.run	
2	Verification	Primer WS-LC-0010	nq-c18-8-27-2009=13;05;43-primer ws-lc-0010.run	
3	Verification	Primer WS-LC-0010	nq-c18-8-27-2009=13;31;57-primer ws-lc-0010.run	
4	Verification	Primer WS-LC-0010	nq-c18-8-27-2009=13;58;11-primer ws-lc-0010.run	
5	Verification	Primer WS-LC-0010	nq-c18-8-27-2009=14;24;25-primer ws-lc-0010.run	
6	Verification	Primer WS-LC-0010	nq-c18-8-27-2009=14;50;41-primer ws-lc-0010.run	
7	Analysis	Blank	nq-c18-8-27-2009=15;16;59-blank.run	
8	New Calib Block			
9	Calibration	ICAL 1; 20	nq-c18-8-27-2009=15;43;15-ical 1; 20.run	
10	Calibration	ICAL 2; 50	nq-c18-8-27-2009=16;09;29-ical 2; 50.run	
11	Calibration	ICAL 3; 100	nq-c18-8-27-2009=16;35;45-ical 3; 100.run	
12	Calibration	ICAL 4; 200	nq-c18-8-27-2009=17;02;00-ical 4; 200.run	
13	Calibration	ICAL 5; 500	nq-c18-8-27-2009=17;28;16-ical 5; 500.run	
14	Calibration	ICAL 6; 1000	nq-c18-8-27-2009=17;54;31-ical 6; 1000.run	
15	Print Calib			
16	Verification	ICV Std; 200	nq-c18-8-27-2009=18;20;56-icv std; 200.run	
17	Analysis	2xMDL Std; 15	nq-c18-8-27-2009=18;47;10-2xmdl std; 15.run	
18	Analysis	Blank	nq-c18-8-27-2009=19;13;27-blank.run	
19	Verification	09GCSV0112	nq-c18-8-27-2009=19;39;45-09gcsv0112.run	
20	Analysis	H2O-L0Q-MB	nq-c18-8-27-2009=20;06;04-h2o-10q-mb.run	
21	Analysis	H2O-L0Q-1	nq-c18-8-27-2009=20;32;21-h2o-10q-1.run	
22	Analysis	H2O-L0Q-2	nq-c18-8-27-2009=20;58;36-h2o-10q-2.run	
23	Analysis	H2O-L0Q-3	nq-c18-8-27-2009=21;24;52-h2o-10q-3.run	
24	Analysis	H2O-L0Q-4	nq-c18-8-27-2009=21;51;07-h2o-10q-4.run	
25	Analysis	H2O-L0Q-5	nq-c18-8-27-2009=22;17;22-h2o-10q-5.run	
26	Analysis	H2O-L0D-1	nq-c18-8-27-2009=22;43;35-h2o-10d-1.run	
27	Verification	09GCSV0113	nq-c18-8-27-2009=23;09;50-09gcsv0113.run	
28	Analysis	H2O-L0Q-MB	nq-c18-8-27-2009=23;36;04-h2o-10q-mb.run	
29	Analysis	H2O-L0Q-6	nq-c18-8-28-2009=00;02;15-h2o-10q-6.run	
30	Analysis	H2O-L0Q-7	nq-c18-8-28-2009=00;28;30-h2o-10q-7.run	
31	Analysis	H2O-L0Q-8	nq-c18-8-28-2009=00;54;45-h2o-10q-8.run	
32	Analysis	H2O-L0Q-9	nq-c18-8-28-2009=01;20;58-h2o-10q-9.run	
33	Analysis	H2O-L0Q-10	nq-c18-8-28-2009=01;47;14-h2o-10q-10.run	
34	Analysis	H2O-L0D-2	nq-c18-8-28-2009=02;13;28-h2o-10d-2.run	
35	Verification	09GCSV0112	nq-c18-8-28-2009=02;39;45-09gcsv0112.run	
36	Analysis	SOLID-L0Q-MB	nq-c18-8-28-2009=03;05;58-solid-10q-mb.run	
37	Analysis	SOLID-L0Q-1	nq-c18-8-28-2009=03;32;13-solid-10q-1.run	

38	Analysis	SOLID-L0Q-2	nq-c18-8-28-2009=03;58;27-solid-10q-2.run
39	Analysis	SOLID-L0Q-3	nq-c18-8-28-2009=04;24;42-solid-10q-3.run
40	Analysis	SOLID-L0Q-4	nq-c18-8-28-2009=04;50;56-solid-10q-4.run
41	Analysis	SOLID-L0Q-5	nq-c18-8-28-2009=05;17;11-solid-10q-5.run
42	Analysis	SOLID-L0D-1	nq-c18-8-28-2009=05;43;23-solid-10d-1.run
43	Verification	09GCSV0112	nq-c18-8-28-2009=06;09;40-09gcsv0112.run
44	Analysis	SOLID-L0Q-MB	nq-c18-8-28-2009=06;35;55-solid-10q-mb.run
45	Analysis	SOLID-L0Q-6	nq-c18-8-28-2009=07;02;12-solid-10q-6.run
46	Analysis	SOLID-L0Q-7	nq-c18-8-28-2009=07;28;27-solid-10q-7.run
47	Analysis	SOLID-L0Q-8	nq-c18-8-28-2009=07;54;41-solid-10q-8.run
48	Analysis	SOLID-L0Q-9	nq-c18-8-28-2009=08;20;56-solid-10q-9.run
49	Analysis	SOLID-L0Q-10	nq-c18-8-28-2009=08;47;10-solid-10q-10.run
50	Analysis	SOLID-L0D-2	nq-c18-8-28-2009=09;13;25-solid-10d-2.run
51	Verification	09GCSV0112	nq-c18-8-28-2009=09;39;43-09gcsv0112.run
52	Analysis	BLANK	nq-c18-8-28-2009=10;21;34-blank.run

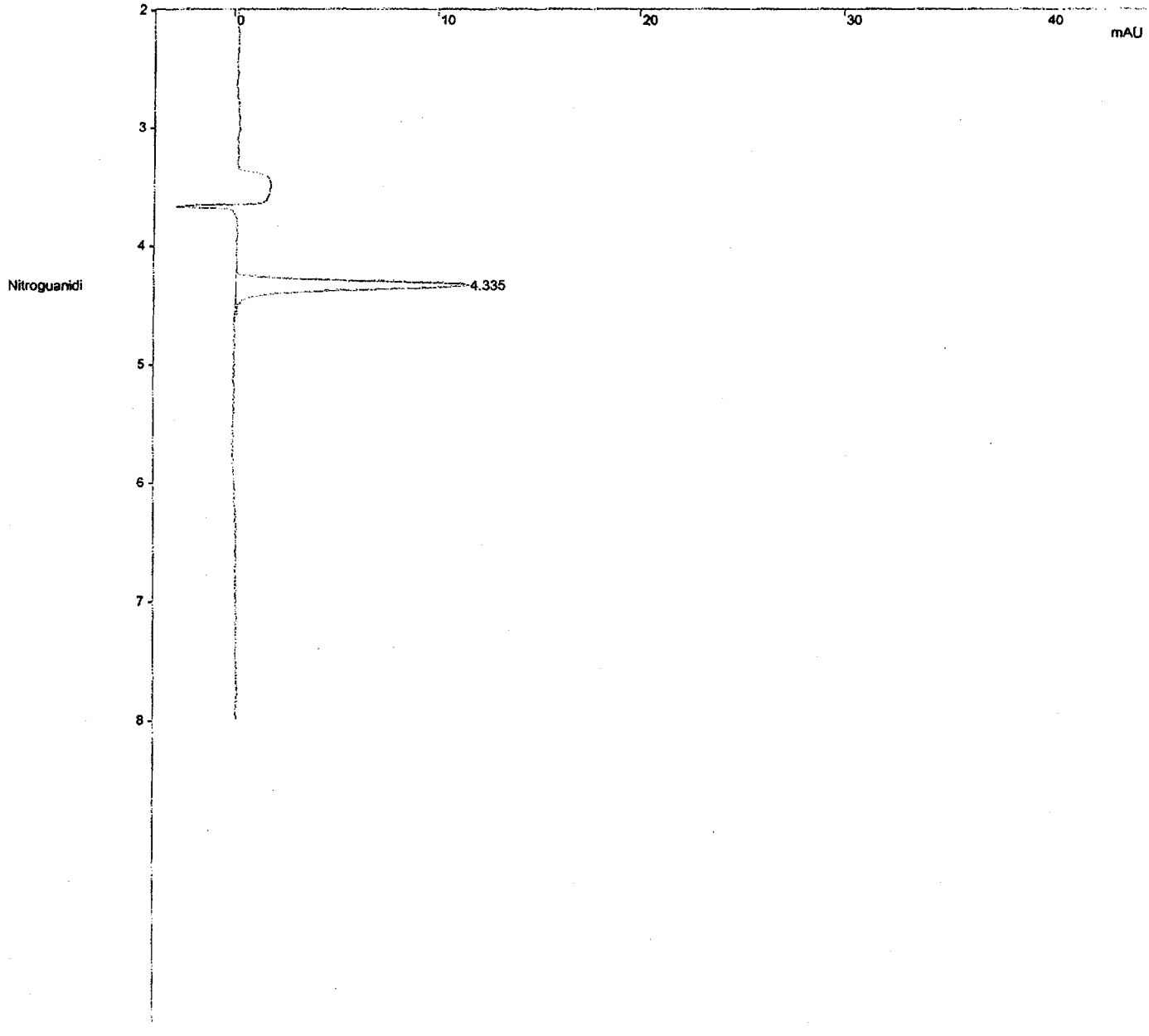
```
Title       : Nitroguanidine Analysis on PDA @ 263 nm.
Run File    : c:\star\data\08.2009\nq-c18-8-27-2009=18;20;56-icv std;  200.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID   : ICV Std;  200

Injection Date: 8/27/2009 18:20    Calculation Date: 8/27/2009 18:31

Operator    : fhk                  Detector Type: 9065
Workstation:                       Bus Address  : 4
Instrument : Varian Star #1        Sample Rate  : 2.71 Hz
Channel    : 16 = 263 nm           Run Time     : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed =    2.00 cm/min   Attenuation = 40          Zero Offset = 8%
Start Time  =   2.000   min     End Time    = 8.000   min   Min / Tick  = 1.00
```



Verification Report

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009-18;20;56-icv std; 200.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICV Std; 200

Injection Date: 8/27/2009 18:20 Calculation Date: 8/27/2009 18:31

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	Dev. %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
1	Nitroguanidi	200.0000	202.4440	1.2	4.335	0.026	1515	
	Totals:		202.4440			0.026	1515	

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 69 microAU

Noise (used): 144 microAU - monitored before this run

Vial: 4 Injection Number: 1 Full Loop Volume: 50 ul

ICV passes
8/29/09

JMM 9/29/09

****
Notes
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STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorbance at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/17/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009

Original Notes:

09GCSV0380, NQ Std at 200ng/mL; Second Source Standard.

****

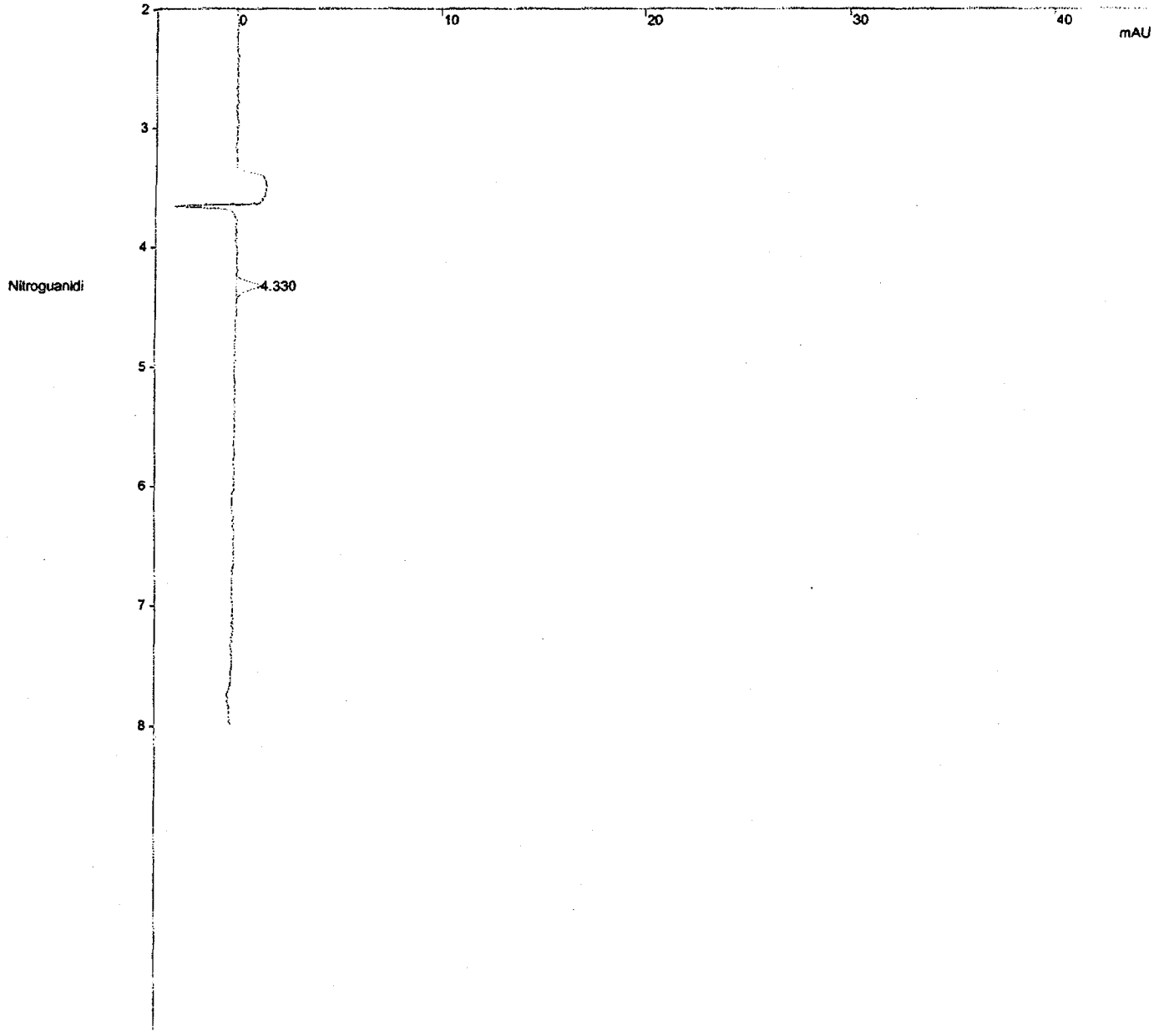
```
Title       : Nitroguanidine Analysis on PDA @ 263 nm.
Run File    : c:\star\data\08.2009\nq-c18-8-27-2009=15;43;15-ical 1;     20.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID   : ICAL 1;     20

Injection Date: 8/27/2009 15:43    Calculation Date: 8/27/2009 15:53

Operator    : fhk                   Detector Type: 9065
Workstation:                        Bus Address  : 4
Instrument : Varian Star #1         Sample Rate  : 2.71 Hz
Channel     : 16 = 263 nm           Run Time     : 9.996 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed =    2.00 cm/min   Attenuation = 40          Zero Offset = 8%
Start Time  =   2.000   min     End Time    = 8.000   min   Min / Tick  = 1.00
```



Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=15;43;15-ical 1; 20.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 1; 20

Injection Date: 8/27/2009 15:43 Calculation Date: 8/27/2009 15:53

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.996 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 1

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	4.330	0.006	155	BB	4.7	
	Totals:		0.006	155			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: -22 microAU

Noise (used): 122 microAU - monitored before this run

Vial: 8 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorbance at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/17/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

Original Notes:

09GCSV0109, NQ Std at 20ng/mL.
****

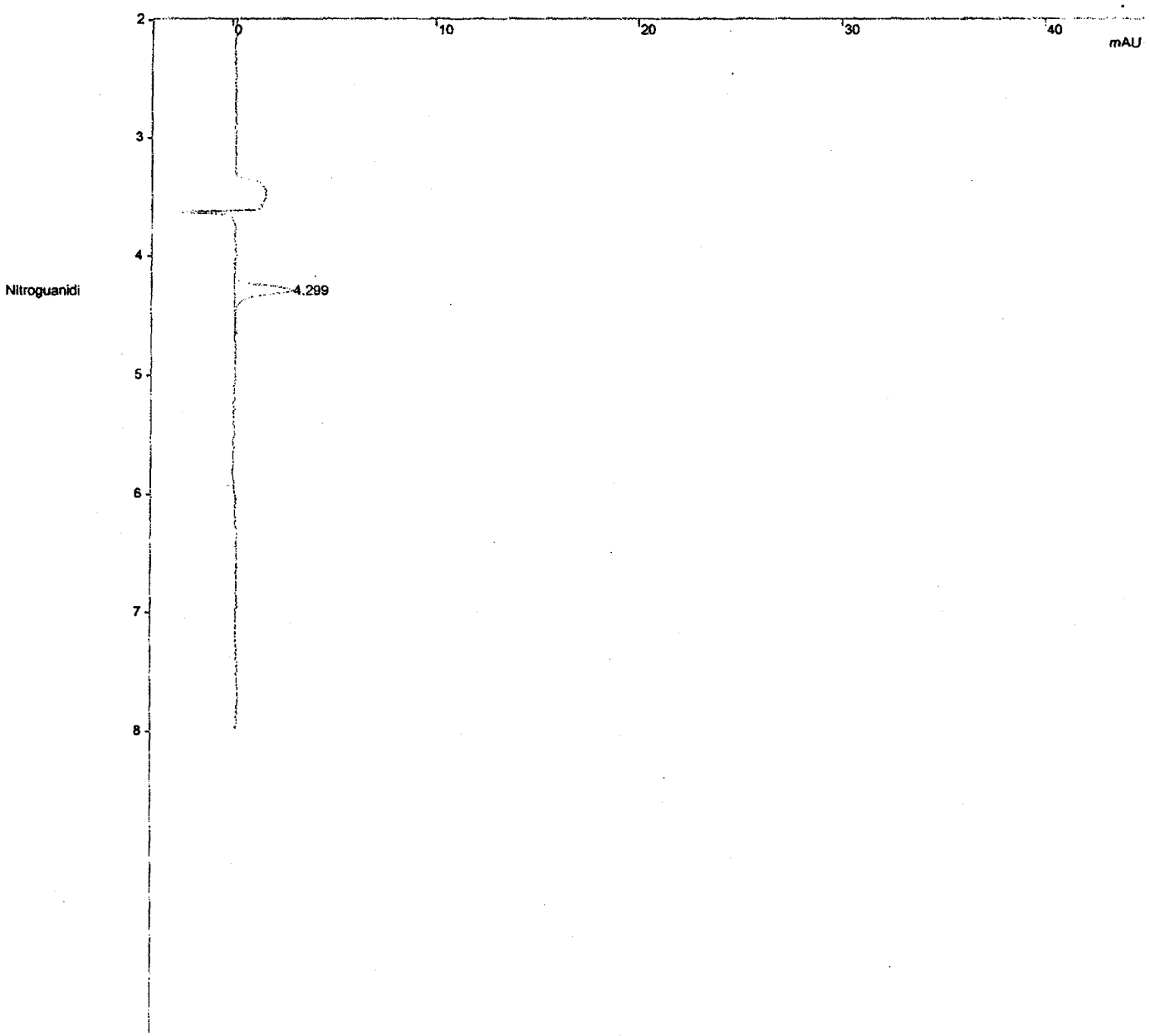
Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=16;09;29-ical 2; 50.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 2; 50

Injection Date: 8/27/2009 16:09 Calculation Date: 8/27/2009 16:19

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



Print Date: Thu Aug 27 16:19:38 2009 Page 1 of 1

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=16;09;29-ical 2; 50.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 2; 50

Injection Date: 8/27/2009 16:09 Calculation Date: 8/27/2009 16:19

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 2

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	4.299	-0.031	377	BB	5.1	
	Totals:		-0.031	377			

Total Unidentified Counts : 0 counts

Detected Peaks: 2 Rejected Peaks: 1 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microAU

Noise (used): 122 microAU - monitored before this run

Vial: 10 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorba
nce at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/
9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow
rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/1
7/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

Original Notes:

09GCSV0110, NQ Std at 50ng/mL.
****

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=16;35;45-ical 3; 100.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 3; 100

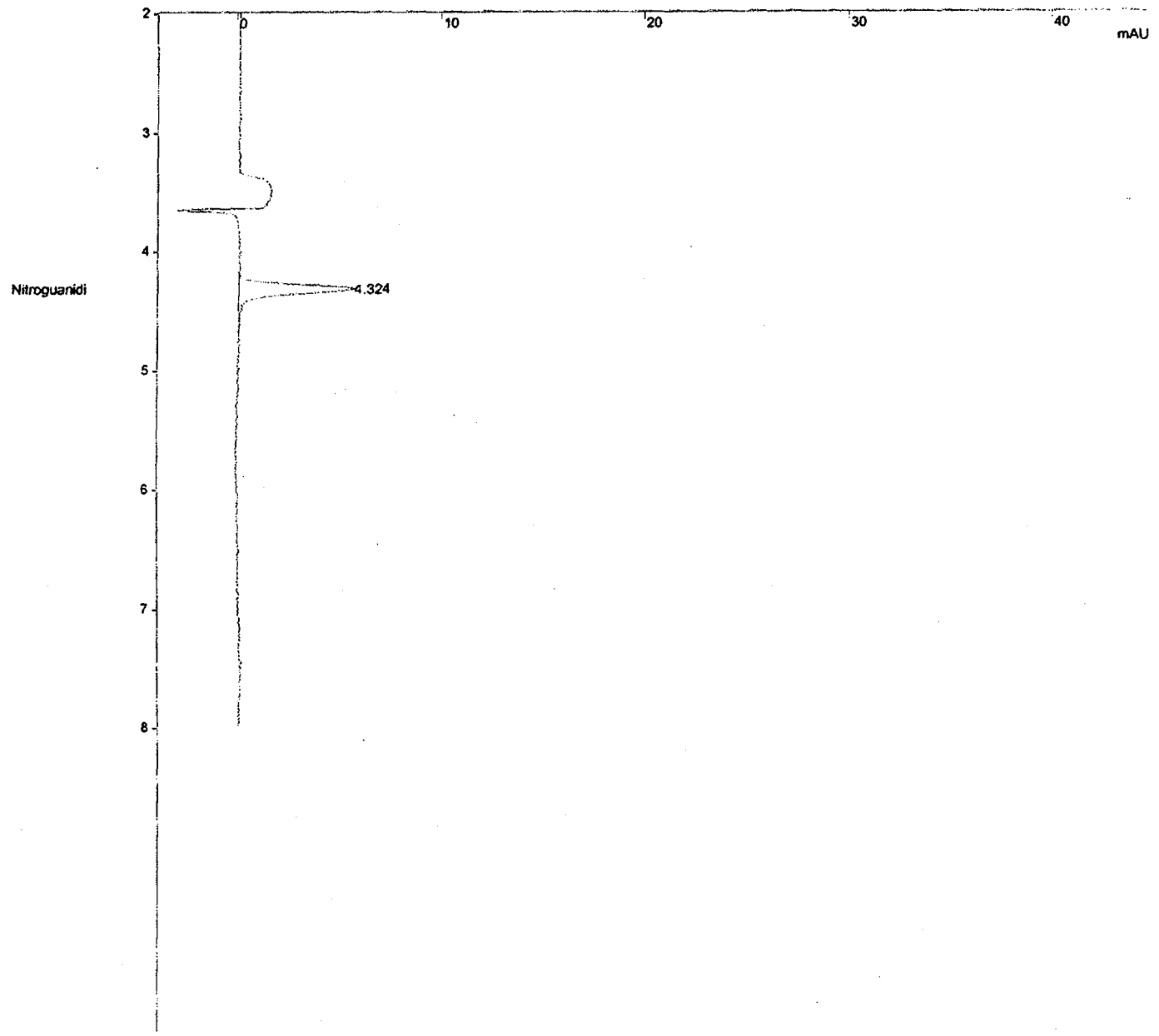
Injection Date: 8/27/2009 16:35 Calculation Date: 8/27/2009 16:45

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.996 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=16;35;45-ical 3; 100.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 3; 100

Injection Date: 8/27/2009 16:35 Calculation Date: 8/27/2009 16:45

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.996 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 3

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	4.324	0.026	740	BB	5.0	
	Totals:		0.026	740			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 69 microAU

Noise (used): 213 microAU - monitored before this run

Vial: 12 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorbance at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/17/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

Original Notes:

09GCSV0111, NQ Std at 100ng/mL.
****

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=17;02;00-ical 4; 200.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 4; 200

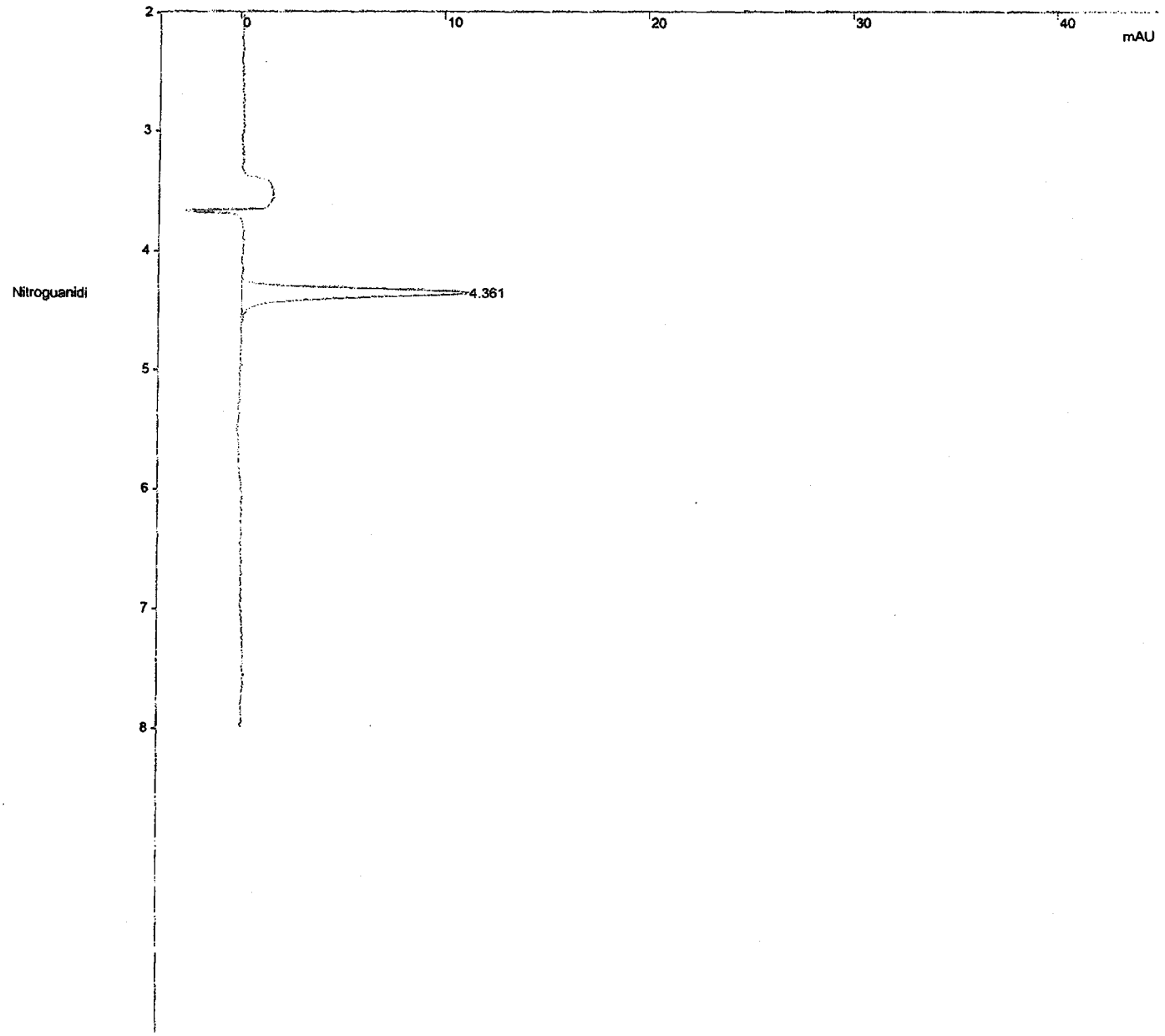
Injection Date: 8/27/2009 17:01 Calculation Date: 8/27/2009 17:12

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=17;02;00-ical 4; 200.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 4; 200

Injection Date: 8/27/2009 17:01 Calculation Date: 8/27/2009 17:12

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	4.361	0.037	1466	BB	4.9	
	Totals:		0.037	1466			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 137 microAU

Noise (used): 175 microAU - monitored before this run

Vial: 14 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorbance at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/17/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

Original Notes:

09GCSV0112, NQ Std at 200ng/mL.
****

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=17;28;16-ical 5; 500.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 5; 500

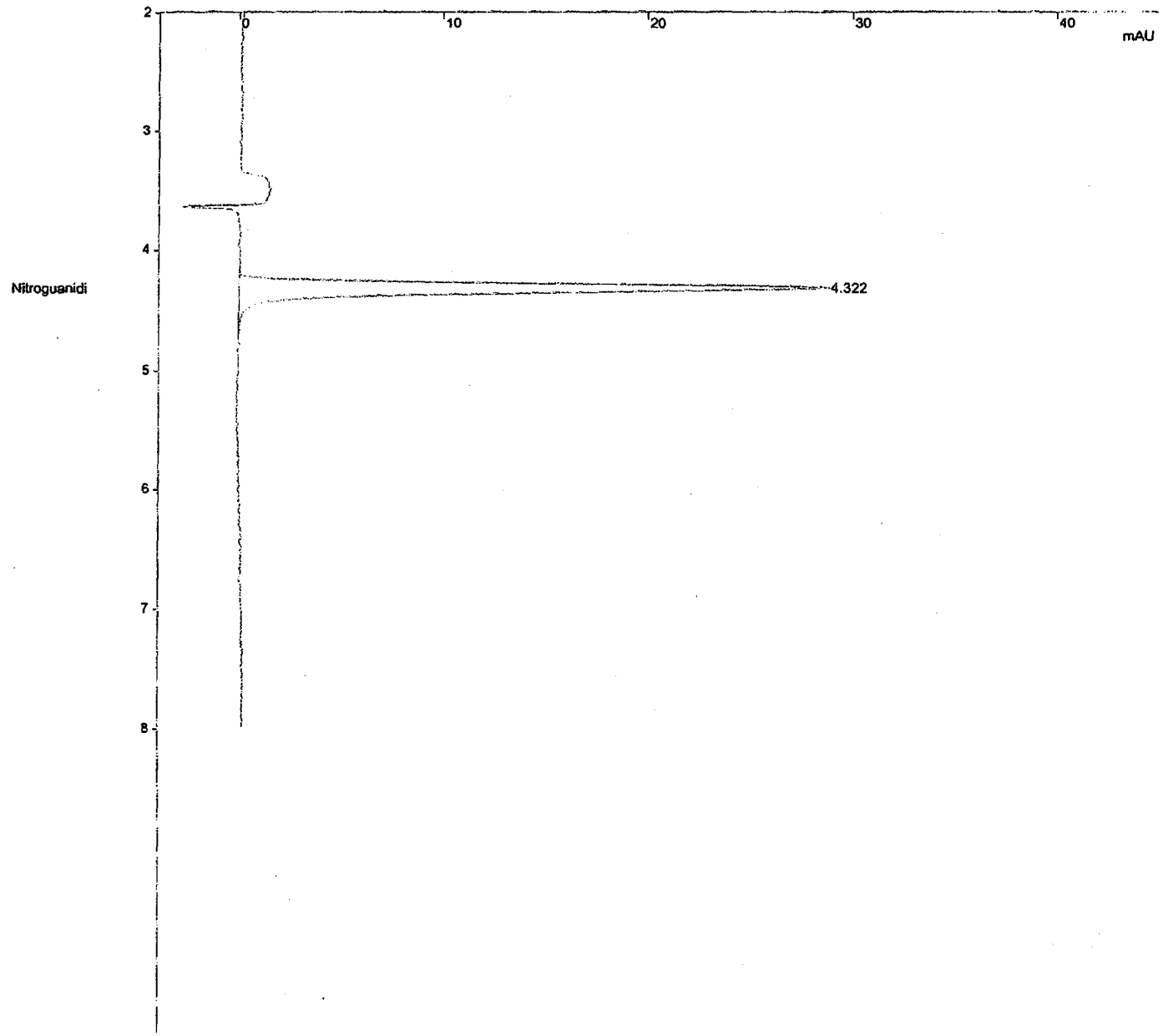
Injection Date: 8/27/2009 17:28 Calculation Date: 8/27/2009 17:38

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=17;28;16-ical 5; 500.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 5; 500

Injection Date: 8/27/2009 17:28 Calculation Date: 8/27/2009 17:38

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.990 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 5

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	4.322	-0.038	3804	BB	4.8	
	Totals:		-0.038	3804			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 8 microAU

Noise (used): 137 microAU - monitored before this run

Vial: 16 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorbance at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/17/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009

Original Notes:

09GCSV0113, NQ Std at 500ng/mL.
****

Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=17;54;31-ical 6; 1000.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 6; 1000

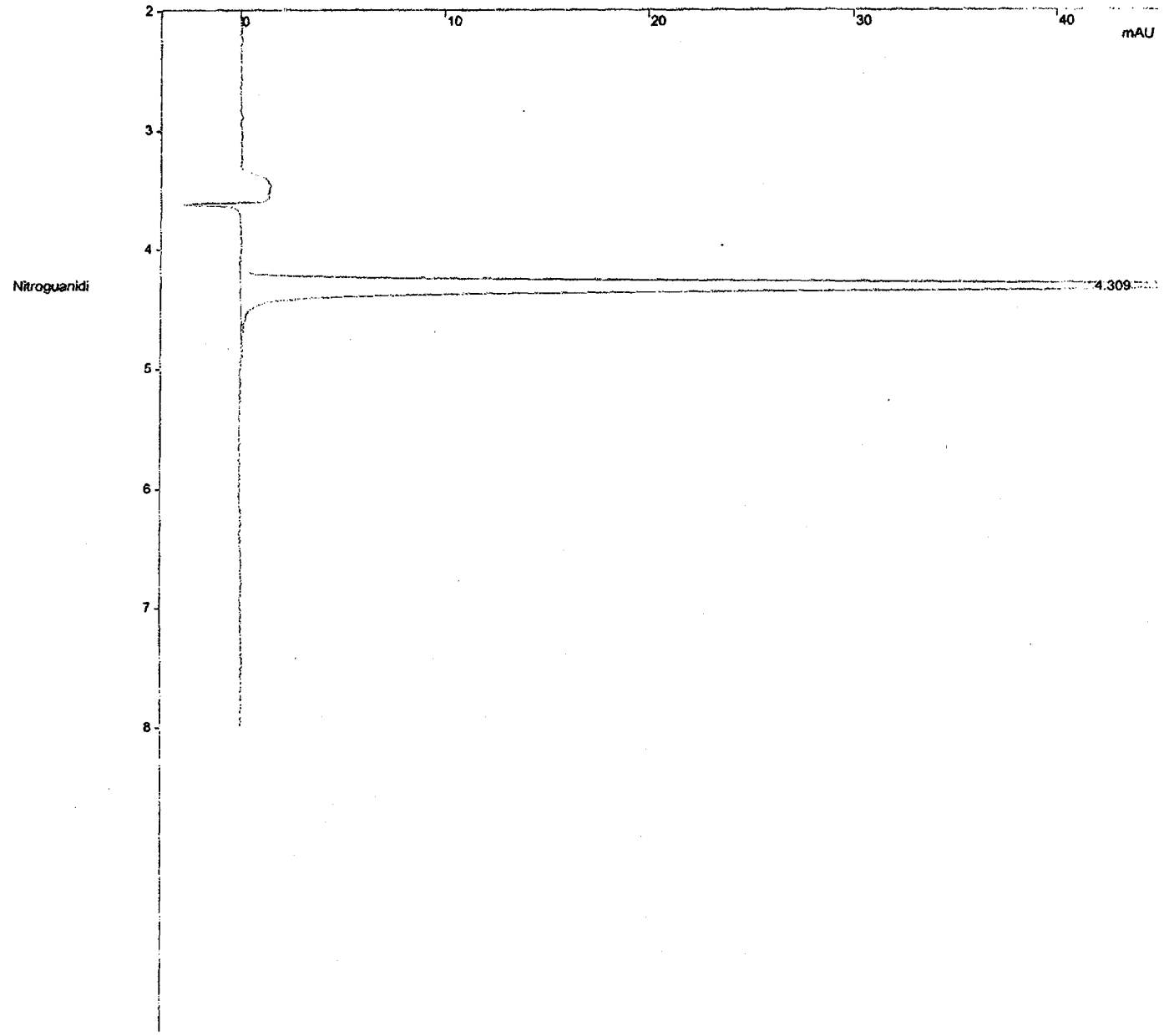
Injection Date: 8/27/2009 17:54 Calculation Date: 8/27/2009 18:04

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.996 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=17;54;31-ical 6; 1000.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : ICAL 6; 1000

Injection Date: 8/27/2009 17:54 Calculation Date: 8/27/2009 18:04

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.996 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 6

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	4.309	-0.013	7460	BB	5.0	
	Totals:		-0.013	7460			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 69 microAU

Noise (used): 160 microAU - monitored before this run

Vial: 18 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorba
nce at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/
9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow
rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/1
7/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

Original Notes:

09GCSV0114, NQ Std at 1000ng/mL.
****

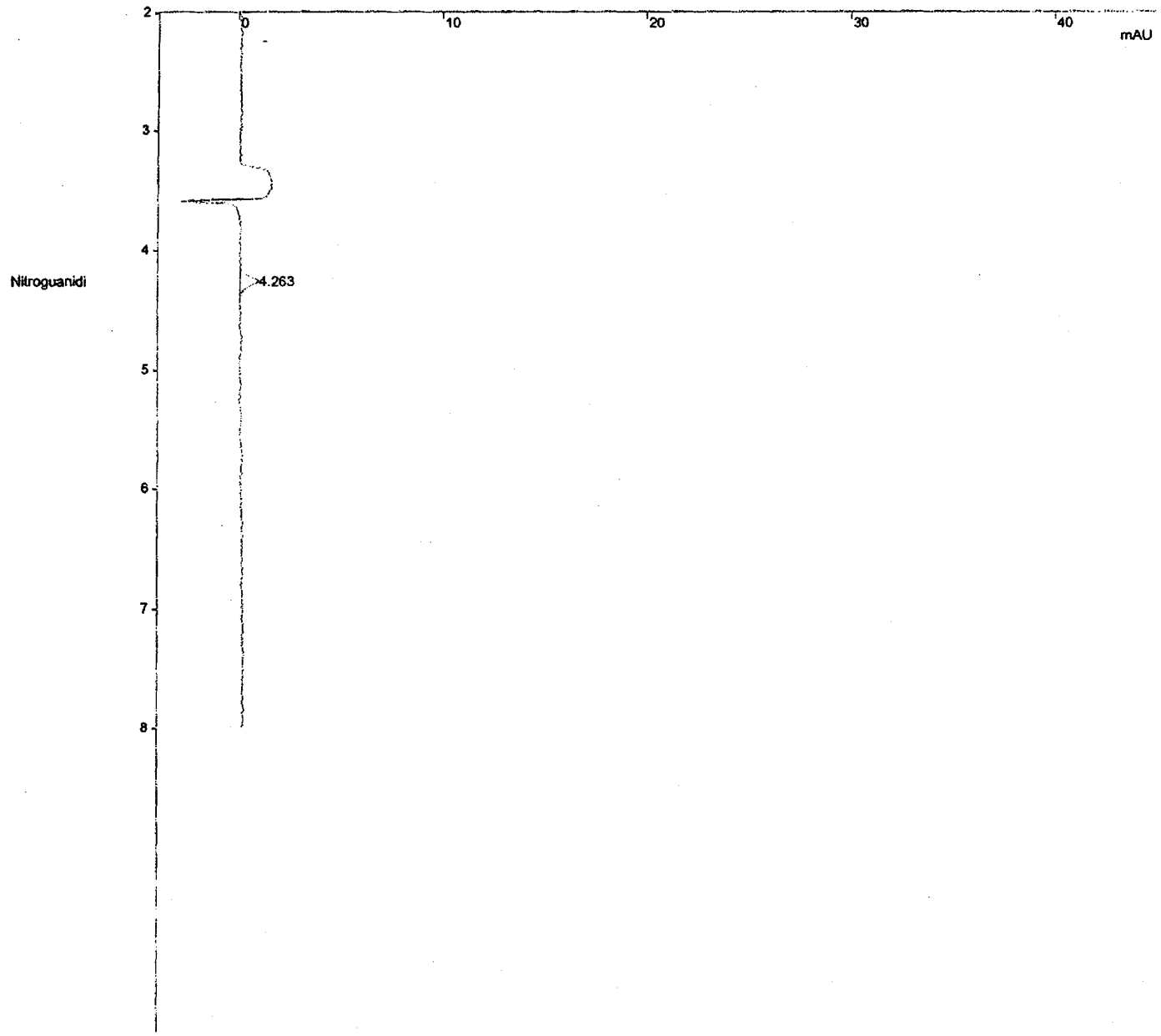
Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009=18;47;10-2xmdl std; 15.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : 2xMDL Std; 15

Injection Date: 8/27/2009 18:47 Calculation Date: 8/27/2009 18:57

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.996 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 40 Zero Offset = 8%
Start Time = 2.000 min End Time = 8.000 min Min / Tick = 1.00



Title : Nitroguanidine Analysis on PDA @ 263 nm.
Run File : c:\star\data\08.2009\nq-c18-8-27-2009-18;47;10-2xmdl std; 15.run
Method File : C:\Star\Methods\NQ_C18_235332-4_08272009.mth
Sample ID : 2xMDL Std; 15

Injection Date: 8/27/2009 18:47 Calculation Date: 8/27/2009 18:57

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 9.996 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	15.6570	4.263	-0.046	117	BB	5.0	
	Totals:	15.6570		-0.046	117			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 237 microAU

Noise (used): 167 microAU - monitored before this run

Vial: 6 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

STL Sacramento, SAC-LC-0010, Nitroguanidine Confirmation on PDA, absorbance at 263nm.

Column = Phenomenex Synergi 4u Hydro-RP 80A, 250 x 4.6 mm, installed 11/9/04
Column Temperature 15 degrees C.
Injection volumn 50 uL.

Program run 90/0/10 to 95/5/0 in 7 minutes then wash with 100% ACN, flow rate 0.80 mL/min.

A= Water
B= Acetonitrile
C= Methanol (12/28/04)
Syringe Valve 1/09/08.
New Lamp 1/17/2008

New Lamp 6/24/2008
New curve using standards 08GCSV0123-128

New curve using standards 08GCSV0334, 336-341, AND 09GCSV0032-ICV on 1/17/2009.

New curve using standards 09GCSV0108-114 and ICV 09GCSV0380 on 8/27/2009
.

Original Notes:

09GCSV0108, NQ Std at 15ng/mL; 2 times MDL.
****

Sample Extraction/Preparation Log Copies

TestAmerica West Sacramento
ESC-Extraction Master Sheet

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Holding Time Due: 3-1-10/3-3-10/3-8-10 Project Due: 3-9-10

BATCH #: 0056283 Initiated By: HD Date: 2-25-10

Test #: NQ-S Extn Comp'd By: HD Date: 3-2-10

QC Code	Lot ID	Sample #	Sample Size / Initial Mass	Final Volume / Final Mass	Chlorine checked
B	MB		2.00	10	2-25-10
C	LCS		2.00	10	HD
	AOB160474	04	2.00	10	
	↓	4MS	1.99	10	
	↓	4MSD	2.01	10	
	↓	05	2.01	10	
	AOB160479	04	2.01	10	
	↓	12	2-01	10	
	AOB180524	01	1.99	10	
	↓	04	2-01	10	
	↓	05	2.00	10	
	AOB1905Z4	02	2.00	10	
	↓	03	1.98	10	
	↓	10	2.06	10	
	↓	13	2.00	10	
	3-2-10 HD				

SOP No.: WS-LC-0010

EXTRACTION COMMENTS:

Multi-incremental Sampling/Date: N/A

Dried/Date 2-23-10 Ground//Date 2-24-10

Sonicated - Start: 14:25/2-25-10 End: 08:25 Date: 2-26-10

Cleanup by/Date ND 3-2-10 Dilution by/Date N/D

Final Vialling /Date ND 3-2-10

Millipore Water Dispensed / Date 2-18-10

SPE Cartridge: Waters Lot # N/D

QC Codes	Standard Information				
	Volume	STD ID	Exp. Date	STD Name/Conc.	ppm/ppb
C,S,D	40 ul	096CSV0425	4-16-10	NQ-spike 50ug/ml	1.0

Spiked By / Date: HD 2/25/10 Witnessed By / Date: EC ~~2/25/10~~ EC 2/25/10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD, FB = Filter Blank

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/02/10
Time: 15:46:08

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 000915 Horacio J. Arauz

Concentrationist: 000915 Horacio J. Arauz

QC BATCH: 0056283

PREP DATE: 2/25/10 14:00
COMP DATE: 3/02/10 14:45

Reviewer/Date: ARAUZH / 3/02/10

Organic Compounds by UV/HPLC
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/01/10	3/09/10	A0B160474-004 0056180 **LVQVK-1-A9**	D	13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/01/10	3/09/10	A0B160474-004 0056180 **LVQVK-1-CHS**	D	13	V9	SOLID	**1.99g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 NA
COMMENTS:															
3/01/10	3/09/10	A0B160474-004 0056180 **LVQVK-1-CJD**	D	13	V9	SOLID	**2.01g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 NA
COMMENTS:															
3/01/10	3/09/10	A0B160474-005 0056180 **LVQVL-1-AL**	D	13	V9	SOLID	**2.01g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/02/10	3/10/10	A0B180429-004 0056180 **LVTQ3-1-CA**	D	13	V9	SOLID	**2.01g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/03/10	3/10/10	A0B180429-012 0056180 **LVTT0-1-A8**	D	13	V9	SOLID	**2.01g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/03/10	3/11/10	A0B180524-001 0056180 **LVVFK-1-A9**	D	13	V9	SOLID	**1.99g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/02/10
Time: 15:46:08

QC BATCH: 0056283

PREP DATE: 2/25/10 14:00
COMP DATE: 3/02/10 14:45

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/03/10	3/11/10	A0B180524-004 **LVVF1-1-AL**	0056180 D	13	V9	SOLID	**2.01g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/03/10	3/11/10	A0B180524-005 **LVVF6-1-AL**	0056180 D	13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/04/10	3/12/10	A0B190524-002 **LVWW9-1-A9**	0056180 D	13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/04/10	3/12/10	A0B190524-003 **LVWXC-1-AL**	0056180 D	13	V9	SOLID	**1.98g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/04/10	3/12/10	A0B190524-010 **LVWX1-1-A9**	0056180 D	13	V9	SOLID	**2.06g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/04/10	3/12/10	A0B190524-013 **LVWX8-1-A9**	0056180 D	13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/01/10	0/00/00	G0B250000-283 **LV369-1-AAB**		13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/01/10	0/00/00	G0B250000-283 **LV369-1-ACC**		13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 NA
COMMENTS:															

1.3 CACL2 3844-001B; .45 FILTER MILLIPORE R9EN05392.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 15

THE LEADER IN ENVIRONMENTAL TESTING

Preparation Data Review Checklist

Prep Batch(es): 0056283 Test: NQ-S

Prep Date: 2-25-10 Holding Times: 3-1-10, 3-2-10, 3-8-10 NCM: Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate	✓	
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	
5. Spiking volumes are correctly documented	✓	
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: ECY Date: 2/25/10

2nd Level Reviewer: [signature] Date: 3/3/10

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

GC/HPLC Data Review Checklist

Lot ID: A0B180429 **Test:** NQ Soil **PM:** MJL

Prep Batch(es) 0056283 **Due Date:** 3-10-10 **NCM:** (Y) N

A. Calibration/Instrument Run QC	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV Criteria met.	✓	✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria	✓	✓	
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.			✓
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
B. QA/QC			
1. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
2. LCS/LCSD and MB data is included.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	✓	✓	
4. MS/MSD data complete.	✓	✓	
5. Holding Times were met.	✓	✓	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	✓	✓	
2. Logbooks/prep sheets properly filled out.	✓	✓	
3. Manual Integrations reviewed and appropriate.	✓	✓	
4. All raw data for samples is included (applies to unused data as well)	✓	✓	
5. All analytes correctly reported.	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: [signature] Date: 3-10-10

2nd Level Reviewer: [signature] Date: 3/10/2010

Comments:

SOLID, 353.2, Nitrocellulose

Nitrocellulose

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Level 1 & 2 Review Checklist
General Chemistry

Lots: AOB160474 AOB180429, AOB180524, AOB230467, AOB250493, AOB240490

Analysis: Nitrocellulose Date(s): 3·1·10 Analyst: CLH

Level 1 Review:	YES	NO	N/A
1. Samples properly preserved/verified			✓
2. Run setup meets std criteria (Curve,ICV,ICB,CCV,etc)	✓		
3. Calibration criteria met (R=0.995, R^2=0.990)	✓		
4. Second source std in control	✓		
5. Batch QC in control (LCS,MB,MS/MSD,DCS-if necessary)	✓		
6. Calculations checked	✓		
7. QAS/QAPP consulted for client specific requirements	✓		
8. Standard tracking #'s recorded on runlog/benchsheet	✓		
9. Manual integration performed, documented & approved			✓
10. Copy of run log included with data package	✓		
11. Copy of conductivity screen logbook (314.0 only)			✓

Level 1 Data Review:	YES	NO	N/A
1. Benchsheet complete	✓		
2. QAS/QAPP consulted for client specific data entry	✓		
3. Copy of prep sheet/checklist submitted	✓		
4. NCM(s) submitted	✓		✓ CLH 3·2·10

Completed by and Date: CLH 3·2·10

Level 2 Review:	YES	NO	N/A
1. Level 1 checklist complete & verified	X		
2. Deviations, NCM(s), holding times checked & approved	X		
3. Reprep/Reanalysis documented and chemist notified	X		
4. Client specific criteria met	X		
5. Data entry checked and released in LIMS	X		
6. Indication on benchsheet of review (dated and initialed)	X		
7. Manual integration reviewed, approved (dated and initialed)			X
8. Copy of run log included with data package	X		
9. Copy of conductivity screen logbook (314.0 only)			X

Completed by and Date: SBV 3/4/10

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

General Chemistry Standards and Reagent Usage Log

Test: Nitrate+Nitrite Analysis
Method: EPA 353.2

SOP ID: ~~SAC-WC-0030 (Nitrate+Nitrite)~~
WS-WC-0050 (Nitrocellulose) ←

Batch ID: 0056149, 0057293
File ID: 030110A

Instrument ID: FS4 Alpkem

Standards

Source Standards	Tracking ID	Exp Date
Calibration		
NO3 (1000 mg/L, as N)	3745-WC-2-7	6-9-10
NO2 (1000 mg/L, as N)	3745-WC-2-2	6-9-10
Reference		
NO3 (1000 mg/L, as N)	3745-WC-29-1	10-12-10
NO2 (1000 mg/L, as N)	3745-WC-29-10	9-30-10

Monthly Intermediate Calibration Standard

	Conc (mg/L, as N)	Tracking ID	Exp Date
NO3+NO2	100	3872-WC-5-1	3-10-10

Monthly Working Standards

	Conc (mg/L, as N)	Tracking ID	Exp Date
S1	0.05	3872-WC-5-2	3-10-10
S2	0.2	3872-WC-5-3	
S3	0.4	3872-WC-5-4	
S4	1	3872-WC-5-5	
S5	2	3872-WC-5-6	
ICV	1	3872-WC-5-7	
NO2	1	3872-WC-5-8	
NO3	1	3872-WC-5-9	↓

Reagents

Reagent	Tracking ID	Exp Date
Color Reagent	3755-WC-21-5	4-25-10
Buffer	3755-WC-26-4	3-1-11

All tracking numbers and expiration dates were checked as accurate prior to reagent or standard use:

Chemist: CLH Date: 3-1-10

NITROCELLULOSE

(SOP # WS-WC-0050, Rev 3.0)

ANALYST CLH
CHECKED BY
BATCH NO. 0056149 0057293

DATE 03/01/10 18:24
DATE 3/4/10
INST - FS4

METHOD NO. 353.2
PROJECT NO.
SOLIDS MDL - 0.78 mg/kg RL - 5.0 mg/kg
AQUEOUS MDL - 0.12 mg/L RL - 0.5 mg/L

FILE 030110A

	Lab ID	Time	Standard Conc. mg/L	Cup #	Sample Aliquot gram	Sample Aliquot mL	Extract Volume mL	Dilution	Height	$NO_3 + NO_2$ Raw Result	Nitrocellulose mg/L	Nitrocellulose ug/g	Nitrocellulose Recovery	Nitrocellulose Check
											Slope = 1.2268E+05			
											Intercept = 4.2416E+02			
											Correlation = 0.999972			
											%Nitrocellulose Assay = 0.111			
1	Cal 0	16:42	0	0					25	-0.003000				
2	Cal 1	16:44	0.05	102					7644	0.059000				
3	Cal 2	16:46	0.2	103					24238	0.194000				
4	Cal 3	16:48	0.4	104					49899	0.403000				
5	Cal 4	16:50	1	105					122433	0.995000				
6	Cal 5	16:52	2	106					246075	2.002000				
7	Blank	16:54		0				1	-48	-0.004000				
8	ICV	16:56	1	107				1	124044	1.008000			100.8%	
9	MRL 0.05PPM	16:59	0.05	102				1	7182	0.055000			110.2%	
10	NO2 1PPM	17:01	1	108				1	123347	1.002000			100.2%	
11	NO3 1PPM	17:03	1	109				1	121362	0.986000			98.6%	
12	Blank	17:05		0				1	-66	-0.004000				
13	Baseline	17:07		0				1	0	-0.003000				
14	MB 0056149	17:09		201	10		40	1	3159	0.022000		0.80		
15	LCS 0046149	17:11	50.9	202	10		40	1	116913	0.950000		34.20	67.2%	
16	A0B160474-4	17:13		203	10		40	1	3251	0.023000		0.83		
17	A0B160474-4S	17:15	50.647	204	10.05		40	1	61469	0.498000		17.80	~~35.1%~~	33.5%
18	A0B160474-4D	17:17	50.9	205	10		40	1	57939	0.469000		16.90	~~33.2%~~	31.5%
19	A0B160474-5	17:19		206	10.02		40	1	2827	0.020000		0.70		
20	A0B180429-4	17:21		207	10		40	1	3319	0.024000		0.85		
21	A0B180429-12	17:23		208	10.06		40	1	8648	0.067000		2.40		
22	A0B180524-1	17:25		209	10.01		40	1	3326	0.024000		0.85		
23	A0B180524-4	17:27		210	10.07		40	1	3617	0.026000		0.93		
24	MRL 0.05PPM	17:29	0.05	102				1	6450	0.049000			98.2%	
25	CCV Cal 4	17:31	1	105				1	123069	1.000000			100.0%	
26	Blank	17:33		0				1	-32	-0.004000				
27	Baseline	17:35		0				1	0	-0.003000				
28	A0B180524-5	17:37		211	10.04		40	1	1927	0.012000		0.44		
29	A0B190524-2	17:39		212	10.05		40	1	3013	0.021000		0.76		
30	A0B190524-3	17:41		213	10		40	1	3325	0.024000		0.85		
31	A0B190524-10	17:43		214	10.05		40	1	1669	0.010000		0.36		
32	A0B190524-13	17:45		215	10.03		40	1	2051	0.013000		0.48		
33	A0B230467-1	17:47		216	10.02		40	1	2186	0.014000		0.52		
34	MB 0057293	17:49		217	10		40	1	2513	0.017000		0.61		
35	LCS 0057293	17:51	50.9	218	10		40	1	118605	0.963000		34.70	68.2%	
36	MRL 0.05PPM	17:53	0.05	102				1	6605	0.050000			100.8%	

CLH 3-2-10

Nitrocellulose = (NO3 + NO2) * Prep Factor / 0.111

Nitrocelluose Ver 11-30-00
10-23-2009 ERS

NITROCELLULOSE

(SOP # WS-WC-0050, Rev 3.0)

ANALYST CLH
CHECKED BY
BATCH NO. 0056149 0057293

DATE 03/01/10 18:24
DATE 3/4/10
INST - FS4

METHOD NO. 353.2
PROJECT NO.
SOLIDS MDL - 0.78 mg/kg RL - 5.0 mg/kg
AQUEOUS MDL - 0.12 mg/L RL - 0.5 mg/L

FILE 030110A

	Lab ID	Time	Standard Conc. mg/L	Cup #	Sample Aliquot gram	Sample Aliquot mL	Extract Volume mL	Dilution	Height	$NO_3 + NO_2$ Raw Result	Nitrocellulose			
37	CCV Cal 4	17:55	1	105				1	124520	1.012000			101.2%	
38	Blank	17:57		0				1	33	-0.003000				
39	Baseline	17:59		0				1	0	-0.003000				
40	A0B250493-2	18:01		219	10.21		40	1	2940	0.021000		0.72		
41	A0B250493-2S	18:03	50.697	220	10.04		40	1	76663	0.621000		22.30	~~44.0%~~	22.3%
42	A0B250493-2D	18:05	50.346	221	10.11		40	1	81337	0.660000		23.50	~~46.7%~~	23.5%
43	A0B240490-3	18:07		222	10.23		40	1	5842	0.044000		1.56		CLH
44	A0B240490-4	18:09		223	10.04		40	1	3330	0.024000		0.85		3-2-10
45	A0B240490-16	18:11		224	10.05		40	1	3646	0.026000		0.94		
46	MRL 0.05PPM	18:13	0.05	102				1	6865	0.053000			105.0%	
47	CCV Cal 4	18:15	1	105				1	124117	1.008000			100.8%	
48	Blank	18:17		0				1	-42	-0.004000				
49	Baseline	18:19		0				1	0	-0.003000				

Nitrocellulose = (NO3 + NO2) * Prep Factor / 0.111

Nitrocelluose Ver 11-30-00
10-23-2009 ERS

Peak Table:Nitrate/Nitrite

File name: V:\GENCH~%3\ALPKE~_-\2010\NITRO~K%\030110A.RST
Date: 01-Mar-10
Operator: CLH

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	105	Sync	1	SYNC	1	1	119824	0.973291	
2	0	Carryover	1	CO	1	1	108	-0.002582	LO
B	0	Baseline	1	RB	1	1	0	-0.003459	BL
4	0	Cal 0	1	C	1	1	25	-0.003253	LO
5	102	Cal 1	1	C	1	1	7644	0.058852	
6	103	Cal 2	1	C	1	1	24238	0.194118	
7	104	Cal 3	1	C	1	1	49899	0.403296	
8	105	Cal 4	1	C	1	1	122433	0.994558	
9	106	Cal 5	1	C	1	1	246075	2.002429	HI
10	0	Blank	1	BLNK	1	1	-48	-0.003847	LO
11	107	ICV	1	U	1	1	124044	1.007691	
12	102	MRL 0.05PPM	1	U	1	1	7182	0.055087	
13	108	NO2 1PPM	1	U	1	1	123347	1.002014	
14	109	NO3 1PPM	1	U	1	1	121362	0.985831	
15	0	Blank	1	BLNK	1	1	-66	-0.003993	LO
B	0	Baseline	1	RB	1	1	0	-0.003459	BL
17	201	MB 0056149	1	U	1	1	3159	0.022294	
18	202	LCS 0046149	1	U	1	1	116913	0.949565	
19	203	A0B160474-4	1	U	1	1	3251	0.023039	
20	204	A0B160474-4S	1	U	1	1	61469	0.497606	
21	205	A0B160474-4D	1	U	1	1	57939	0.468836	
22	206	A0B160474-5	1	U	1	1	2827	0.019588	
23	207	A0B180429-4	1	U	1	1	3319	0.023597	
24	208	A0B180429-12	1	U	1	1	8648	0.067035	
25	209	A0B180524-1	1	U	1	1	3326	0.023657	
26	210	A0B180524-4	1	U	1	1	3617	0.026027	
27	102	MRL 0.05PPM	1	U	1	1	6450	0.049117	
28	105	CCV Cal 4	1	CCV	1	1	123069	0.999744	
29	0	Blank	1	BLNK	1	1	-32	-0.003721	LO
B	0	Baseline	1	RB	1	1	0	-0.003459	BL
31	211	A0B180524-5	1	U	1	1	1927	0.012250	
32	212	A0B190524-2	1	U	1	1	3013	0.021098	
33	213	A0B190524-3	1	U	1	1	3325	0.023645	
34	214	A0B190524-10	1	U	1	1	1669	0.010145	
35	215	A0B190524-13	1	U	1	1	2051	0.013257	
36	216	A0B230467-1	1	U	1	1	2186	0.014357	
37	217	MB 0057293	1	U	1	1	2513	0.017028	
38	218	LCS 0057293	1	U	1	1	118605	0.963356	
39	102	MRL 0.05PPM	1	U	1	1	6605	0.050379	
40	105	CCV Cal 4	1	CCV	1	1	124520	1.011570	
41	0	Blank	1	BLNK	1	1	33	-0.003190	LO
B	0	Baseline	1	RB	1	1	0	-0.003459	BL
43	219	A0B250493-2	1	U	1	1	2940	0.020503	
44	220	A0B250493-2S	1	U	1	1	76663	0.621466	
45	221	A0B250493-2D	1	U	1	1	81337	0.659561	
46	222	A0B240490-3	1	U	1	1	5842	0.044166	
47	223	A0B240490-4	1	U	1	1	3330	0.023688	
48	224	A0B240490-16	1	U	1	1	3646	0.026259	
49	102	MRL 0.05PPM	1	U	1	1	6865	0.052503	
50	105	CCV Cal 4	1	CCV	1	1	124117	1.008289	
51	0	Blank	1	BLNK	1	1	-42	-0.003805	LO
B	0	Baseline	1	RB	1	1	0	-0.003459	BL

Nitrate/Nitrite:Calibration 1: Peak 4-52

File name: V:\GENCH~%3\ALPKE~_-\2010\NITRO~K%\030110A.RST
Date: 01-Mar-10
Operator: CLH

*	Name	Conc	Height
*	Cal 0	0.000000	25.261566
*	Cal 1	0.050000	7644.069824
*	Cal 2	0.200000	24237.955078
*	Cal 3	0.400000	49899.136719
*	Cal 4	1.000000	122432.835938
*	Cal 5	2.000000	246074.546875

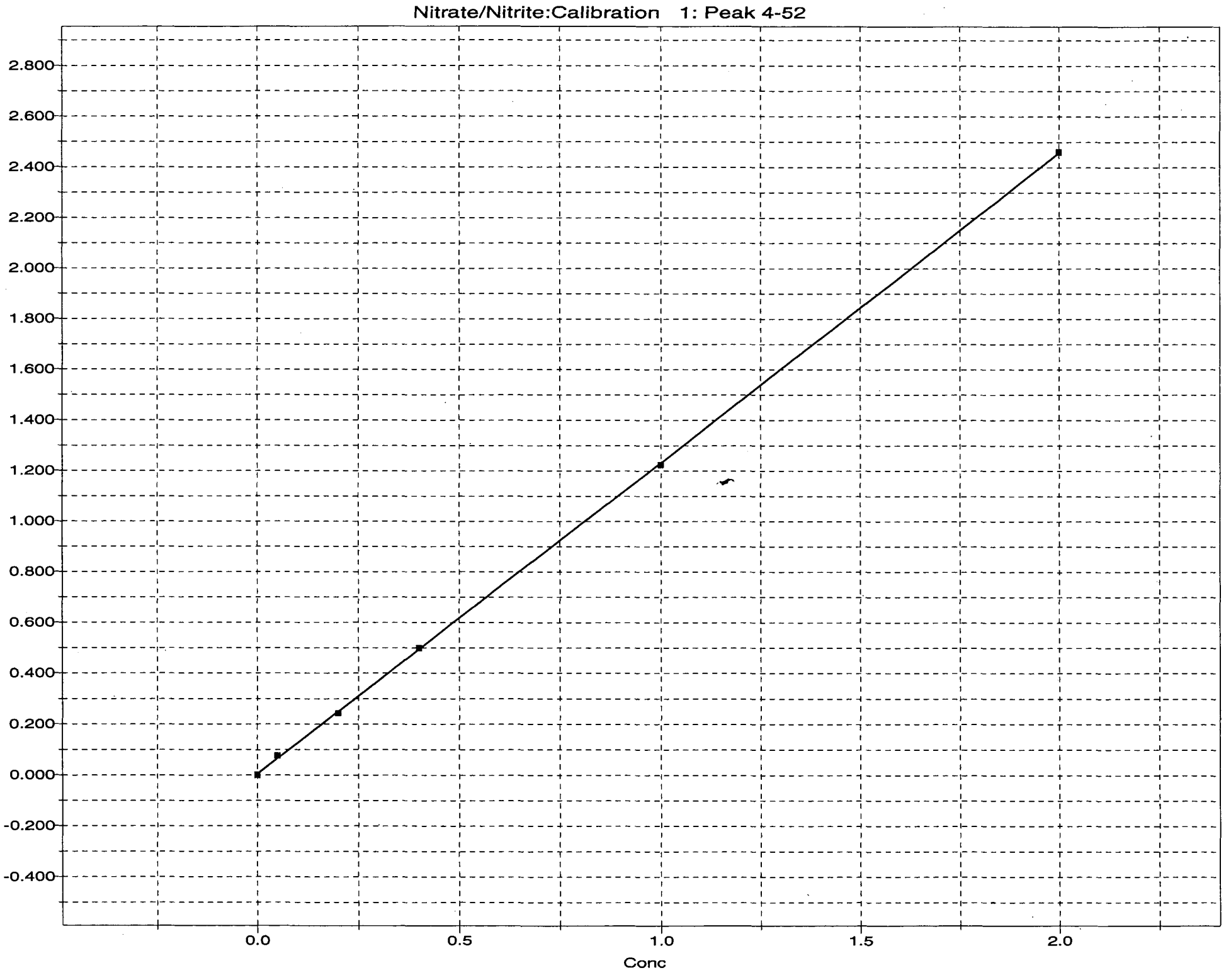
Calib Coef:
y=bx+a
a: (intercept) 4.2432e+02
b: 1.2268e+05

Corr Coef: 0.999971

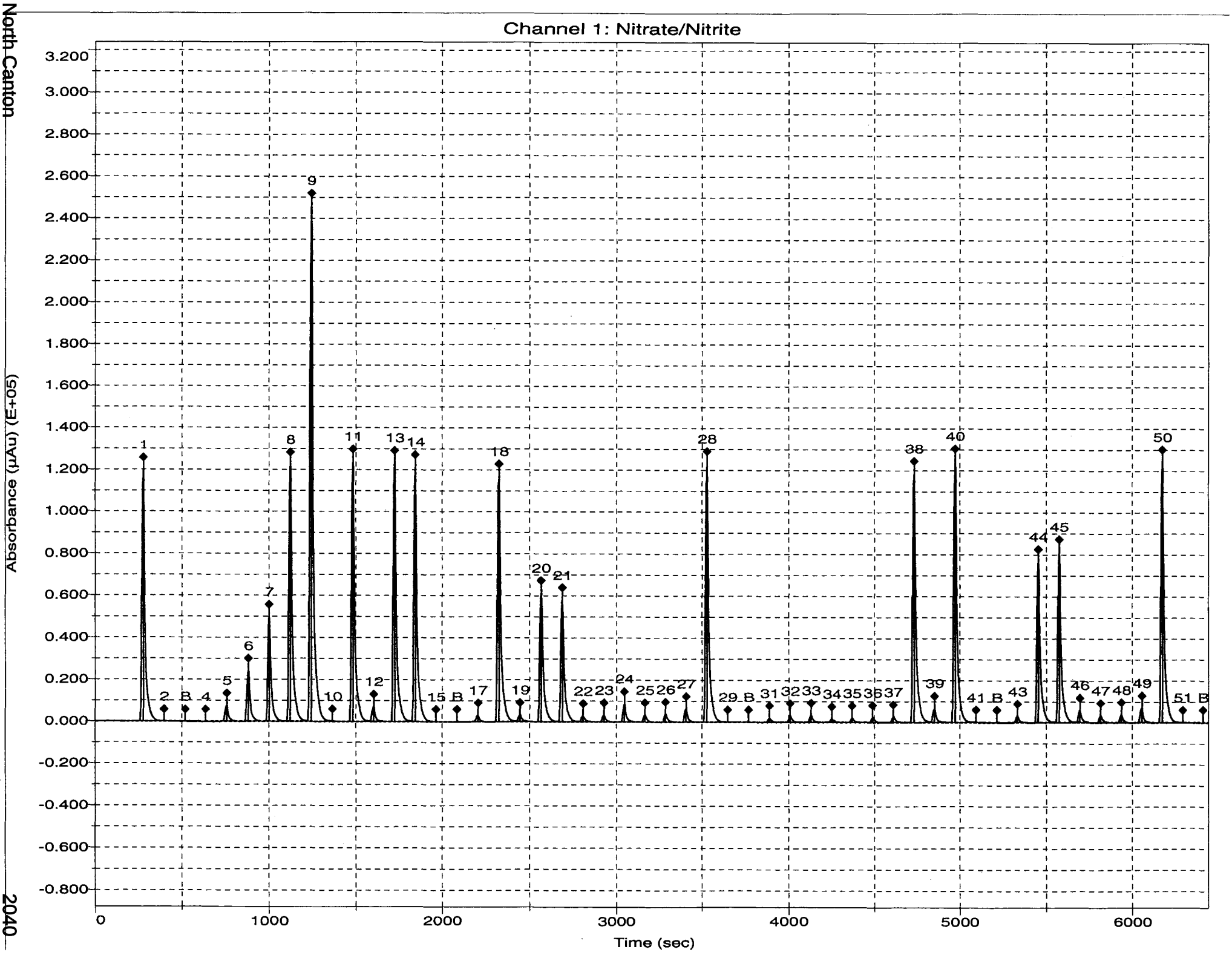
Carryover: 0.0898%

No Drift Peaks

North Canton



2039


North Canton
2040
Channel 1: Nitrate/Nitrite
Absorbance (µAu) (E+05)
Time (sec)
3.200
3.000
2.800
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
-0.600
-0.800
0
1000
2000
3000
4000
5000
6000
1 2 B 4 5 6 7 8 9 10 11 12 13 14 15 B 17 18 19 20 21 22 23 24 25 26 27 28 29 B 31 32 33 34 35 36 37 38 39 40 41 B 43 44 45 46 47 48 49 50 51 B

Report Results by Sample
Result path: V:\GENCH~%3\ALPKE~ ~\2010\NITRO~K%\030110A.RST
Sample table path: V:\GENCH~%3\ALPKE~_~\2010\NITRO~K%\030110a.tbl
Method path: C:\FLOW 4\no3_no2.mth
Date acquired: 01-Mar-10
Time acquired: 18:24

Facility Name:
Facility Location:
Department:

Operator Name: CLH
Operator ID: CLH

Platform: FS III/IV
Software Rev Code: 210
Data system ID: 57

Channel: 1
Analysis: Nitrate/Nitrite
CAS Number:
Methodology:

	Temp	Warmup	Run time	Reps
rack 1	Off	303:00:09	617:48:31	-18535
rack 2	Off	303:00:09	617:48:31	-18535
rack 3	Off	303:00:09	617:48:31	-18535

Notes

Cup	Name	S	1:Time	1:Value	1:S
0	Carryover	C	16:38:58	0.00	[C]
0	Baseline	C	16:40:58	0.00	[C]
0	Cal 0	C	16:42:58	0.00	[C]
102	Cal 1	C	16:44:58	0.06	[C]
103	Cal 2	C	16:46:59	0.19	[C]
104	Cal 3	C	16:48:59	0.40	[C]
105	Cal 4	C	16:50:59	0.99	[C]
106	Cal 5	C	16:52:59	2.00	[C]
0	Blank	C	16:54:59	0.00	[C]
107	ICV	-	16:56:59	1.01	[-]
102	MRL 0.05PPM	-	16:59:00	0.06	[-]
108	NO2 1PPM	-	17:01:00	1.00	[-]
109	NO3 1PPM	-	17:03:00	0.99	[-]
0	Blank	C	17:05:00	0.00	[C]
0	Baseline	C	17:07:00	0.00	[C]
201	MB 0056149	-	17:09:00	0.02	[-]
202	LCS 0046149	-	17:11:01	0.95	[-]
203	A0B160474-4	-	17:13:01	0.02	[-]
204	A0B160474-4S	-	17:15:01	0.50	[-]
205	A0B160474-4D	-	17:17:01	0.47	[-]
206	A0B160474-5	-	17:19:01	0.02	[-]
207	A0B180429-4	-	17:21:01	0.02	[-]
208	A0B180429-12	-	17:23:02	0.07	[-]
209	A0B180524-1	-	17:25:02	0.02	[-]
210	A0B180524-4	-	17:27:02	0.03	[-]
102	MRL 0.05PPM	-	17:29:02	0.05	[-]
105	CCV Cal 4	C	17:31:02	1.00	[C]
0	Blank	C	17:33:02	0.00	[C]
0	Baseline	C	17:35:03	0.00	[C]
211	A0B180524-5	-	17:37:03	0.01	[-]
212	A0B190524-2	-	17:39:03	0.02	[-]
213	A0B190524-3	-	17:41:03	0.02	[-]
214	A0B190524-10	-	17:43:03	0.01	[-]
215	A0B190524-13	-	17:45:04	0.01	[-]
216	A0B230467-1	-	17:47:04	0.01	[-]
217	MB 0057293	-	17:49:04	0.02	[-]
218	LCS 0057293	-	17:51:04	0.96	[-]
102	MRL 0.05PPM	-	17:53:04	0.05	[-]
105	CCV Cal 4	C	17:55:05	1.01	[C]
0	Blank	C	17:57:05	0.00	[C]
0	Baseline	C	17:59:05	0.00	[C]
219	A0B250493-2	-	18:01:05	0.02	[-]
220	A0B250493-2S	-	18:03:05	0.62	[-]
221	A0B250493-2D	-	18:05:05	0.66	[-]
222	A0B240490-3	-	18:07:06	0.04	[-]
223	A0B240490-4	-	18:09:06	0.02	[-]
224	A0B240490-16	-	18:11:06	0.03	[-]
102	MRL 0.05PPM	-	18:13:06	0.05	[-]
105	CCV Cal 4	C	18:15:07	1.01	[C]
0	Blank	C	18:17:07	0.00	[C]
0	Baseline	C	18:19:07	0.00	[C]

Sample Preparation Logs

North Canton

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento
Nitrocellulose Extraction Sheet

CLH 3-2-10
3-1-10

Holding Time Due: 3-15-10/3-17-10/3-22-10
Project Due: 3-9-10
Analysis Date: CLH 3-2-10
BATCH #: 0056149
Initiated By: MA
Date: 2-25-10
MATRIX: (SOLID) / AQ / OTHER: _____
Hydrolyzed By: MD
Date/Time: 3-01-10/started 9:05 — finished 10:30

QC Code	Lot #	Sample #	Sample Size (g or mL)	Final Volume (mL)	pH Adjusted to 6-8
B	MB		10.00	40	(Y)/N
C	LCS		10.00	40	(Y)/N
	AOB160474	04	10.00	40	(Y)/N
S	↓	4MS	10.05	40	(Y)/N
D	↓	4MSD	10.00	40	(Y)/N
	↓	05	10.02	40	(Y)/N
	AOB180429	04	10.00	40	(Y)/N
	↓	12	10.06	40	(Y)/N
	AOB180524	01	10.01	40	(Y)/N
	↓	04	10.07	40	(Y)/N
	↓	05	10.04	40	(Y)/N
	AOB190524	02	10.05	40	(Y)/N
	↓	03	10.00	40	(Y)/N
	↓	10	10.05	40	(Y)/N
	↓	13	10.03	40	(Y)/N
	AOB230467	01	10.02	40	(Y)/N
					Y/N
					Y/N
	3-1-10				Y/N
	MD				Y/N
					Y/N
					Y/N
					Y/N
					Y/N
					Y/N

SOP No.: WS-WC-0050

EXTRACTION COMMENTS:

* millipore water dispensed 2/18/10

QC Codes	Standard Information			
	Volume	STD ID	Conc'n (µg/mL)	Exp. Date
S,D,C	1.0ml	E091016A	509	4-16-10

Spiked By: MD 2/25/10 Witnessed By: WS 2/25/10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/01/10
Time: 11:32:36

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets
				_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 000915 Horacio J. Arauz

Concentrationist: 000915 Horacio J. Arauz

QC BATCH: 0056149

PREP DATE: 2/25/10 9:00
COMP DATE: 3/01/10 10:30

Reviewer/Date: ARAUZH / 2/25/10

Nitrocellulose as N by 353.2
EXTRACTION, SOLID/SOLVENT (Manual)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/13/10	3/09/10	A0B160474-004 **LVQVK-1-CA**	0056103 D	76	WA	SOLID	**10.0g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/13/10	3/09/10	A0B160474-004 **LVQVK-1-CFS**	0056103 D	76	WA	SOLID	**10.05g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/13/10	3/09/10	A0B160474-004 **LVQVK-1-CGD**	0056103 D	76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/13/10	3/09/10	A0B160474-005 **LVQVL-1-CA**	0056103 D	76	WA	SOLID	**10.02g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/14/10	3/10/10	A0B180429-004 **LVTQ3-1-CC**	0056103 D	76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/15/10	3/10/10	A0B180429-012 **LVTT0-1-A9**	0056103 D	76	WA	SOLID	**10.06g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/15/10	3/11/10	A0B180524-001 **LVVFK-1-CA**	0056103 D	76	WA	SOLID	**10.01g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/01/10
Time: 11:32:36

QC BATCH: 0056149

PREP DATE: 2/25/10 9:00
COMP DATE: 3/01/10 10:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/15/10	3/11/10	A0B180524-004 0056103 **LVVF1-1-CA**	D	76	WA	SOLID	**10.07g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/15/10	3/11/10	A0B180524-005 0056103 **LVVF6-1-CA**	D	76	WA	SOLID	**10.05g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/16/10	3/12/10	A0B190524-002 0056103 **LVWW9-1-CA**	D	76	WA	SOLID	**10.05g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/16/10	3/12/10	A0B190524-003 0056103 **LVWXC-1-CA**	D	76	WA	SOLID	**10.0g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/16/10	3/12/10	A0B190524-010 0056103 **LVWX1-1-CA**	D	76	WA	SOLID	**10.05g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/16/10	3/12/10	A0B190524-013 0056103 **LVWX8-1-CA**	D	76	WA	SOLID	**10.03g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/20/10	3/16/10	A0B230467-001 0056103 **LV03V-1-CA**	D	76	WA	SOLID	**10.02g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/13/10	0/00/00	G0B250000-149 **LV3EQ-1-AAB**		76	WA	SOLID	**10.0g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/13/10	0/00/00	G0B250000-149 **LV3EQ-1-ACC**		76	WA	SOLID	**10.0g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															

MEOH/H2O 3844-005C; J.T.BAKER ACETONE H29E40; 50ML CENTRIFUGE TUBE MG-9190362
SODIUM HYDROXIDE (1N) RICCA 1808597; SULFURIC ACID RICCA (2N) 1904287
.45 FILTER MILLIPORE R9EN05392.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 16

PSL246 TestAmerica West Sacramento
WET CHEM ANALYSIS WORKSHEET LCS

Run Date: 03/01/2010
Time: 11:32
User Id.: ARAUZH
Review Date/By: _______
____
Work Order: LV3EQ

Lab Number: G0B250000-149-C
Storage Loc:

Sample Id: INTRA-LAB CHECK

QC Program: STANDARD TEST SET

QC BATCH: 0056149

Matrix: SOLID

* *

ANALYSIS	True Spike Amt.	Meas. Spike Amt.	Spike % Rec	Control Limits	PREP/ Analysis Date	INIT/ QCB#
XX-A-76-WA (NCEL_S) LV3EQ-1-AC	________	________	________	(34-115)	____/ ______	____/ ______

PSL246 TestAmerica Laboratories, Inc. Run Date: 03/01/2010
WET CHEM ANALYSIS WORKSHEET MS Time: 11:32
User Id.: ARAUZH
Review Date/By: _____

Work Order: LVQVK
Client Code: 366660 Quote #: 84137
Project Manager: Mark J. Loeb Lab Number: A0B160474-004-S
Site: RVAAP PBA2008 17 AOCs RI Storage Loc: C165 MS OUT
Amt. Rec"d: 250/2X100/60/TS
Sample Id: L12SD-309-5006-SD
QC Package: Expanded Deliverables Sampling Date: 2/15/10
QC Program: STANDARD TEST SET Receiving Date: 2/16/10
QC BATCH: 0056149

Sample Comments:
EMS REQ CLT SPEC EXP DEL*DOD QSM V 3.0 W/LCG QCMRLs/MDLCKS*EXPL/PROP TO WSAC.
Matrix: SOLID Analytical Due Date: 0/00/00N

ANALYSIS	True Spike Amt.	Meas. Spike Amt.	Spike % Rec	Control Limits	PREP/ Analysis Date	INIT/ QCB#
XX-A-76-WA (NCEL_S) LVQVK-1-CF	_____	_____	_____	(34-115)-71	____/ _____	____/ _____

RQC050 TestAmerica Laboratories, Inc. Run Date: 3/01/10
Wet Chem Batch Worksheet Time: 11:32:33

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

QC BATCH #: **0056149** INITIALS: DATA ENTRY:
PREP DATE: 2/25/10 9:00 PREP _____ INITIALS _____
COMP DATE: 3/01/10 10:30 ANAL _____ DATE _____
USER: ARAUZH
METHOD: WA Nitrocellulose as N by 353.2

WORK ORD	RESULT	UNITS	LDL/DIL	PREP/ ANL DATE	LAB NUMBER/CLIENT
LVQVK-1-CA	_____	mg/kg	5.0	/____ _____/_____	A-0B160474-004
SAMPLE ID: L12SD-309-5006-SD					
SAMPLE COMMENTS: EMS REQ CLT SPEC EXP DEL*DOD QSM V 3.0 W/LCG QCMRLs/MDLCKS*EXPL/PROP TO WSAC.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LVQVK-1-CG	_____	mg/kg	5.0	/____ _____/_____	A-0B160474-004-D
SAMPLE ID: L12SD-309-5006-SD					
SAMPLE COMMENTS: EMS REQ CLT SPEC EXP DEL*DOD QSM V 3.0 W/LCG QCMRLs/MDLCKS*EXPL/PROP TO WSAC.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LVQVK-1-CF	_____	mg/kg	5.0	/____ _____/_____	A-0B160474-004-S
SAMPLE ID: L12SD-309-5006-SD					
SAMPLE COMMENTS: EMS REQ CLT SPEC EXP DEL*DOD QSM V 3.0 W/LCG QCMRLs/MDLCKS*EXPL/PROP TO WSAC.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LVQVL-1-CA	_____	mg/kg	5	/____ _____/_____	A-0B160474-005
SAMPLE ID: L12SD-309-6035-FD					
SAMPLE COMMENTS: EMS REQ CLT SPEC EXP DEL*DOD QSM V 3.0 W/LCG QCMRLs/MDLCKS*EXPL/PROP TO WSAC.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LVTQ3-1-CC	_____	mg/kg	5.0	/____ _____/_____	A-0B180429-004
SAMPLE ID: B12SS-038M-5040-SO					
SAMPLE COMMENTS: EXP DEL,DOD QSM V 3.0 WITH LCG QCMRLS & MDL CHECKS, NEEDS DRY/GROUND.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LVTT0-1-A9	_____	mg/kg	5.0	/____ _____/_____	A-0B180429-012
SAMPLE ID: ATASS-015M-5036-SO					
SAMPLE COMMENTS: EXP DEL,DOD QSM V 3.0 WITH LCG QCMRLS & MDL CHECKS. NEEDS DRIED/GROUND.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LVVFK-1-CA	_____	mg/kg	5.0	/____ _____/_____	A-0B180524-001
SAMPLE ID: FWSSD-102-5011-SD					
SAMPLE COMMENTS: EXP DEL,DOD QSM V 3.0 W/ LCG QCMRLS & MDL CHECKS.					

ANALYSIS COMMENTS:
COMMENTS:

366660

RQC050 TestAmerica Laboratories, Inc. Run Date: 3/01/10
Wet Chem Batch Worksheet Time: 11:32:33

TestAmerica West Sacramen

QC BATCH #: **0056149** INITIALS: DATA ENTRY:
PREP DATE: 2/25/10 9:00 PREP _____ INITIALS _____
COMP DATE: 3/01/10 10:30 ANAL _____ DATE _____
USER: ARAUZH

WORK ORD	RESULT	UNITS	LDL/DIL	PREP/ ANL DATE	LAB NUMBER/CLIENT
LVVF1-1-CA	_____	mg/kg	5	/____ _____/_____	A-0B180524-004

SAMPLE ID: LL6SD-082-5245-SD
SAMPLE COMMENTS: EXP DEL,DOD QSM V 3.0 W/ LCG QCMRLS & MDL CHECKS.
ANALYSIS COMMENTS:
COMMENTS: 366660

LVVF6-1-CA	_____	mg/kg	5	/____ _____/_____	A-0B180524-005

SAMPLE ID: LL6SD-082-6063-FD
SAMPLE COMMENTS: EXP DEL,DOD QSM V 3.0 W/ LCG QCMRLS & MDL CHECKS.
ANALYSIS COMMENTS:
COMMENTS: 366660

LVWW9-1-CA	_____	mg/kg	5.0	/____ _____/_____	A-0B190524-002

SAMPLE ID: LL9SD-113-5471-SD
SAMPLE COMMENTS: EMS REQ CLT SPEC,EXP DEL,DOD QSM V3.0 W LCG QCMRLS & MDL CHKS
ANALYSIS COMMENTS:
COMMENTS: 366660

LVWXC-1-CA	_____	mg/kg	5	/____ _____/_____	A-0B190524-003

SAMPLE ID: LL9SD-113-6147-FD
SAMPLE COMMENTS: EMS REQ CLT SPEC,EXP DEL,DOD QSM V3.0 W LCG QCMRLS & MDL CHKS
ANALYSIS COMMENTS:
COMMENTS: 366660

LVWX1-1-CA	_____	mg/kg	5.0	/____ _____/_____	A-0B190524-010

SAMPLE ID: FWSSD-103-5013-SD
SAMPLE COMMENTS: EMS REQ CLT SPEC,EXP DEL,DOD QSM V3.0 W LCG QCMRLS & MDL CHKS
ANALYSIS COMMENTS:
COMMENTS: 366660

LVWX8-1-CA	_____	mg/kg	5.0	/____ _____/_____	A-0B190524-013

SAMPLE ID: L10SD-094-5531-SD
SAMPLE COMMENTS: EMS REQ CLT SPEC,EXP DEL,DOD QSM V3.0 W LCG QCMRLS & MDL CHKS
ANALYSIS COMMENTS:
COMMENTS: 366660

LV03V-1-CA	_____	mg/kg	5.0	/____ _____/_____	A-0B230467-001

SAMPLE ID: LL6SS-073-5237-SO
SAMPLE COMMENTS: EMS REQ CLT SPEC,EXP DEL,DOD QSM V3.0 W/ LCG QC MRLS & MDL CHECKS.
ANALYSIS COMMENTS:
COMMENTS: 366660

LV3EQ-1-AA	_____	mg/kg	5.0	/____ _____/_____	G-0B250000-149-B

SAMPLE ID: INTRA-LAB BLANK
SAMPLE COMMENTS:
ANALYSIS COMMENTS:

RQC050 TestAmerica Laboratories, Inc. Run Date: 3/01/10
Wet Chem Batch Worksheet Time: 11:32:33

TestAmerica West Sacramen

QC BATCH #: **0056149** INITIALS: DATA ENTRY:
PREP DATE: 2/25/10 9:00 PREP _____ INITIALS _____
COMP DATE: 3/01/10 10:30 ANAL _____ DATE _____
USER: ARAUZH

WORK ORD	RESULT	UNITS	LDL/DIL	PREP/ ANL DATE	LAB NUMBER/CLIENT
LV3EQ-1-AC	_____	mg/kg	5.0	/____ _____/_____	G-0B250000-149-C

SAMPLE ID: INTRA-LAB CHECK
SAMPLE COMMENTS:
ANALYSIS COMMENTS:
COMMENTS: 0

TESTAMERICA
THE LEADER IN ENVIRONMENTAL TESTING

Preparation Data Review Checklist

Prep Batch(es): 0056149 Test: NCELL-S

Prep Date: 2-25-10 Holding Times: 3-15-10, 3-17-10, 3-22-10 NCM: Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	✓
5. Spiking volumes are correctly documented	✓	✓
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	
B. Weights and Volumes		✓
1. Recorded weights are in anticipated range	NA	✓
2. Balance upload or raw data for weights is included	NA	✓
3. Weights and volumes have been transcribed correctly to LIMS.	NA	✓
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	✓
C. Standards and Reagents		✓
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	✓
2. Are dates and analysts for cleanups recorded?	NA	✓
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	✓
D. Documentation		✓
1. Are all nonconformances documented appropriately?	NA	✓
2. QuantIMs entry correct, including dates and times.	NA	✓
3. Are all fields completed?	NA	✓

Spike witness: [signature] Date: 2/25/10

2nd Level Reviewer: [signature] Date: 3/11/10

Comments:

North Canton

TestAmerica Laboratories, Inc.

Laboratory **TestAmerica West Sacramento**
880 Riverside Parkway
West Sacramento, CA 95605

SAMPLE ANALYSIS REQUISTION
Lab Request SR117970

Report Package: **Expanded Deliverables**
Need Analytical Report 2010-03-10

Client Code: 366660

Project Manager: MARK LOEB

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0B180429-1	LVTQQ	B12SS-036M-5038-SO	2010-02-16 10:30	SOLID, 8330B, Explosives (/W 8330B prep)
A0B180429-2	LVTQ1	B12SS-037M-5039-SO	2010-02-16 14:17	SOLID, 8330B, Explosives (/W 8330B prep)
A0B180429-3	LVTQ2	B12SS-037M-6049-FD	2010-02-16 14:17	SOLID, 8330B, Explosives (/W 8330B prep)
A0B180429-4	LVTQ3	B12SS-038M-5040-SO	2010-02-16 13:10	SOLID, 8330B, Explosives (/W 8330B prep)
A0B180429-4	LVTQ3	B12SS-038M-5040-SO	2010-02-16 13:10	SOLID, 8330M, Nitroguanidine Propellant
A0B180429-4	LVTQ3	B12SS-038M-5040-SO	2010-02-16 13:10	SOLID, 353.2, Nitrocellulose Propellant
A0B180429-12	LVTT0	ATASS-015M-5036-SO	2010-02-16 12:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B180429-12	LVTT0	ATASS-015M-5036-SO	2010-02-16 12:00	SOLID, 8330M, Nitroguanidine Propellant
A0B180429-12	LVTT0	ATASS-015M-5036-SO	2010-02-16 12:00	SOLID, 353.2, Nitrocellulose Propellant
A0B180429-14	LVTT9	ATASS-016M-5037-SO	2010-02-16 10:45	SOLID, 8330B, Explosives (/W 8330B prep)
A0B180429-15	LVTVA	ATASS-016M-6047-FD	2010-02-16 10:45	SOLID, 8330B, Explosives (/W 8330B prep)

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 2/23/10 1050

Relinquished by: _____ Date/Time: _____

Received for lab by: _____ Date/Time: 2-24-10 1100

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

2054

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT TAL-N Canton PM KD LOG # 103425

LOT# (QUANTIMS ID) A0B180429 QUOTE# NA LOCATION WID

Checked (✓)

DATE RECEIVED 2-24-10 TIME RECEIVED 845 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT

☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER

☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) Seal

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☑

COC #(S) NA ☑

TEMPERATURE BLANK Observed: 0 Corrected: 1

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 1.0 1 Average 1 Corrected Average 1

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☐ #5 ☑ ☐ OTHER _____ ☑

AL 2-24-10
Initials Date

==========

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☐

LABELED BY..... ☑

LABELS CHECKED BY..... ☑

PEER REVIEW _____ ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☐ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☑ N/A ☑

☑ CLOUSEAU ☑ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☐ N/A

☑ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☑ PM NOTIFIED

AL 2-24-10
Initials Date

Notes _____

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 172819.00.09456.00.9200.02.200

RVAAP PBA2008 17 AOCs RI

Lot #: A0C050520

CONTRACT NO: W912QR-04-D-0028

DELIVERY ORDER: 0001

Marie Simpson

SAIC
151 LaFayette Drive
PO Box 2502
Oak Ridge, TN 37831

TESTAMERICA LABORATORIES, INC.

Unless noted otherwise, the test results reported herein meet all requirements of NELAC and the current version of the DoD QSM.

Approved for release.
Mark J. Loeb
Project Manager II
3/31/2010 5:14 PM

Mark J. Loeb
Project Manager
mark.loeb@testamericainc.com

March 31, 2010

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0C050520

The following report contains the analytical results for two solid samples submitted to TestAmerica North Canton by SAIC from the RVAAP PBA2008 17 AOCS RI Site, project number 172819.00.09456.00.9200.02.200. The samples were received March 05, 2010, according to documented sample acceptance procedures.

The 8330B Explosives, 8330M Nitroguanidine Propellant, and 353.2 Nitrocellulose Propellant analyses were performed at the TestAmerica West Sacramento laboratory. Refer to TestAmerica West Sacramento narrative included in their data package for additional information.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Heather Miller, Jenny Vance, Marie Simpson, and Richard Sprinzl on March 26, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Mark J. Loeb, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.5°C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for LL6SB-069-5222-SO had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Batch(es) 0067386 had recoveries and/or RPDs out high in the LCS. Since there were no target analytes detected in any of the associated samples, no corrective action was necessary.

The client specific or regulatory program requirements stated that corrective action must be performed for surrogate recoveries outside criteria. The repreparation and reanalysis also had surrogate recoveries outside criteria confirming probable matrix interference; Therefore, the original data are contained in the report for samples LL6SB-069-5222-SO.

The closing QCMRL standard had compounds outside of the marginal exceedance limits, 1,1,2,2-Tetrachloroethane; however, the QCMDL standard at the end of the sequence was acceptable so no corrective action was required.

CASE NARRATIVE (continued)

GC/MS VOLATILES (continued)

The closing QCMRL standard had compounds outside of the marginal exceedance limits, 1,1,2,2-tetrachloroethane, however the QCMDL standard at the end of the sequence was acceptable so no corrective action was required.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

GC/MS SEMIVOLATILES

The matrix spike/matrix spike duplicate data for batch(es) 0068165 are not included in this report. The batch QC samples, which document the effect of a specific sample matrix on method performance, were not associated with a sample reported in this lot. The data, therefore, has no bearing on the samples reported herein. In order to document compliance with the QC requirement for an MS/MSD per 20 environmental samples, a summary of sample/QC associations has been provided following this case narrative.

PESTICIDES-8081

Elevated reporting limits are reported due to color of the extract for sample(s) LL6SB-069-5222-SO.

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

NITROAROMATICS AND NITRAMINES-8330

The analytical results met the requirements of the laboratory's QA/QC program.

METALS

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

CASE NARRATIVE (continued)

METALS (continued)

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for batch(es) 0064023 due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

The matrix spike/matrix spike duplicate(s) for batch(es) 0064023 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

No ICP MS Form IX was provided for batch(es) 0064023. The serial dilution was performed on a different sample from the same QC batch(es).

Per client approval, it is acceptable to use the criteria for method blanks (<1/2 the RL or <1/10 the lowest concentration in the associated samples) for CCBs for metals analysis.

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The matrix spike/matrix spike duplicate(s) for batch(es) 0068158 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

MANUAL INTEGRATION SUMMARY

Manual integrations were performed on samples(s) reported herein. A list of samples and analytes for which manual integration was necessary is provided following this Case Narrative.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

North Canton

TESTAMERICA LABORATORIES, INC.

MS RUN NUMBER REVIEW

Lot ID	Smp#	Work Order	Batch	MS Run#	SDG	Prep Date	Method
A0C030547	007	LV9DW2AG	0068165	0068101		03/09/10	SW846 8270C
A0C040505	002	LWADP2AD	0068165	0068101		03/09/10	SW846 8270C
A0C050520	002	LWCWJ1AD	0068165	0068101		03/09/10	SW846 8270C
A0C090412	001	LWE3Q1A1	0068166	0068101		03/09/10	SW846 8270C
A0C090412	002	LWE301AC	0068166	0068101		03/09/10	SW846 8270C
A0C090412	003	LWE311AC	0068166	0068101		03/09/10	SW846 8270C
A0C090412	003	LWE311A4 D	0068166	0068101		03/09/10	SW846 8270C
A0C090412	003	LWE311A3 S	0068166	0068101		03/09/10	SW846 8270C
A0C090412	004	LWE331AC	0068166	0068101		03/09/10	SW846 8270C
A0C090412	005	LWE341AC	0068166	0068101		03/09/10	SW846 8270C

MANUAL INTEGRATION SUMMARY

Lot A0C050520

Client ID: LL6SB-069-5222-SO
Compound Name: Decachlorobiphenyl
Instrument ID: a2hp9.i
File Name: 027F2701.D
Inj. Date and Time: 16-MAR-2010 23:01
Manual Integration Reason: Baseline Event

Client ID: LL6SB-069-5222-SO
Compound Name: Decachlorobiphenyl
Instrument ID: a2hp9.i
File Name: 028F2801.D
Inj. Date and Time: 16-MAR-2010 23:25
Manual Integration Reason: Baseline Event

Client ID: LL6SB-069-5222-SO
Compound Name: Decachlorobiphenyl
Instrument ID: a2hp9.i
File Name: 029F2901.D
Inj. Date and Time: 16-MAR-2010 23:48
Manual Integration Reason: Baseline Event

Client ID: LL6SB-069-5222-SO
Compound Name: AROCLOR-1016
Instrument ID: a2hp13.i
File Name: 009F0901.D
Inj. Date and Time: 11-MAR-2010 14:39
Manual Integration Reason: Analyte not Identified by the Data System

Client ID: LL6SB-069-5222-SO
Compound Name: AROCLOR-1260
Instrument ID: a2hp13.i
File Name: 009F0901.D
Inj. Date and Time: 11-MAR-2010 14:39
Manual Integration Reason: Analyte not Identified by the Data System

Client ID: LL6SB-069-5222-SO
Compound Name: AROCLOR-1016
Instrument ID: a2hp13.i
File Name: 010F1001.D
Inj. Date and Time: 11-MAR-2010 14:54
Manual Integration Reason: Analyte not Identified by the Data System

Client ID: LL6SB-069-5222-SO
Compound Name: AROCLOR-1260
Instrument ID: a2hp13.i
File Name: 010F1001.D
Inj. Date and Time: 11-MAR-2010 14:54
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0C050520

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-006-5130-SO 02/24/10 11:35 001				
Silver	0.018 J	0.63	mg/kg	SW846 6020
Aluminum	3520	12.6	mg/kg	SW846 6020
Arsenic	11.3	0.63	mg/kg	SW846 6020
Barium	24.5	1.3	mg/kg	SW846 6020
Beryllium	0.17	0.13	mg/kg	SW846 6020
Calcium	15900	253	mg/kg	SW846 6020
Cadmium	0.086 J	0.25	mg/kg	SW846 6020
Cobalt	4.9	0.63	mg/kg	SW846 6020
Chromium	5.7	0.63	mg/kg	SW846 6020
Copper	20.9	0.63	mg/kg	SW846 6020
Iron	16700	63.2	mg/kg	SW846 6020
Potassium	571	126	mg/kg	SW846 6020
Magnesium	3810	126	mg/kg	SW846 6020
Manganese	290	1.3	mg/kg	SW846 6020
Sodium	42.7 J	126	mg/kg	SW846 6020
Nickel	12.4	1.3	mg/kg	SW846 6020
Lead	9.8	0.38	mg/kg	SW846 6020
Antimony	0.089 J	0.63	mg/kg	SW846 6020
Selenium	0.58 J	0.63	mg/kg	SW846 6020
Thallium	0.13 J	0.25	mg/kg	SW846 6020
Vanadium	7.2	1.3	mg/kg	SW846 6020
Zinc	61.7	5.1	mg/kg	SW846 6020
Percent Solids	79.1	10.0	%	MCAWW 160.3 MOD
LL6SB-069-5222-SO 02/25/10 15:09 002				
Silver	0.018 J	0.61	mg/kg	SW846 6020
Aluminum	6470	12.2	mg/kg	SW846 6020
Arsenic	13.5	0.61	mg/kg	SW846 6020
Barium	21.6	1.2	mg/kg	SW846 6020
Beryllium	0.32	0.12	mg/kg	SW846 6020
Calcium	7760	245	mg/kg	SW846 6020
Cadmium	0.042 J	0.24	mg/kg	SW846 6020
Cobalt	8.4	0.61	mg/kg	SW846 6020
Chromium	10.4	0.61	mg/kg	SW846 6020
Copper	18.1	0.61	mg/kg	SW846 6020
Iron	22400	61.2	mg/kg	SW846 6020
Potassium	977	122	mg/kg	SW846 6020
Magnesium	4420	122	mg/kg	SW846 6020
Manganese	338	1.2	mg/kg	SW846 6020
Sodium	45.7 J	122	mg/kg	SW846 6020
Nickel	19.6	1.2	mg/kg	SW846 6020
Lead	10.1	0.37	mg/kg	SW846 6020

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0C050520

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
LL6SB-069-5222-SO 02/25/10 15:09 002				
Selenium	0.63	0.61	mg/kg	SW846 6020
Thallium	0.11 J	0.24	mg/kg	SW846 6020
Vanadium	11.1	1.2	mg/kg	SW846 6020
Zinc	56.6	4.9	mg/kg	SW846 6020
Acetone	11 J	24	ug/kg	SW846 8260B
Methylene chloride	6.8 B	6.1	ug/kg	SW846 8260B
Percent Solids	81.7	10.0	%	MCAWW 160.3 MOD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0C050520

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330B
Nitrocellulose as N, 353.2	MCAWW 353.2
Organics by UV/HPLC	SW846 8330 (Modified)
Organochlorine Pesticides	SW846 8081A
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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SAMPLE SUMMARY

SAMPLE SUMMARY

A0C050520

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LWCWH	001	ATASB-006-5130-SO	02/24/10	11:35
LWCWJ	002	LL6SB-069-5222-SO	02/25/10	15:09

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SHIPPING AND RECEIVING DOCUMENTS

SAIC
From Science to Solutions
151 Lafayette Drive, Oak Ridge, TN 37831
(865) 481-4600

Chain of Custody Record

Science Applications International Corporation

COC NO.: RVAAP-PBA08RI-030
Date: 3/5/2010

PROJECT NAME: RVAAP PBA2008 17 AOCs RI
PO NUMBER: PO10025302
PROJECT NUMBER: 172819.00.09456.00.9200.02.200
PROJECT MANAGER: Kevin Jago
AOC: Anchor Test Area and Load Line 6 (Subsurface Soil)

Sampler (Signature) Rich Sprinzl (Printed Name): RSpl

Laboratory Name: TestAmerica
Address: 4101 Shuffel Street NW, North Canton, Ohio 44720
Attn: Mark Loeb
Phone: 330-966-9387

Sample ID	Station ID	Depth (ft)	Date Collected	Time Collected	Matrix	Requested Parameters: TAL Metals + Hg 1	Explosives 2	SVOCs 3	Propellants 4	VOCs 5	Pesticides 6	PCBs 7	PAHs 8	Asbestos 9	Porosity 10	Bulk Density 11	Moisture content 12	Total organic carbon 13	grain size fraction analysis 14	permeability, K (undisturbed) 15	No. of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
ATASB-006-5130-SO	ATAsb-006	7-13	2/24/2010	1135	SO	X	X														2	WATCH HOLD TIMES
LL6SB-069-5222-SO	LL6sb-069	7-13	2/25/2010	1509	SO	X	X	X	X	X	X	X									4	WATCH HOLD TIMES

Total Number of Containers: 6
Cooler ID: 1 COOLER
Cooler Temperature:
FEDEX NUMBER: NA

Signature: Rich Sprinzl	Date: 3/5/10	Received by Signature: William R Cordell	Date: 3/5/10				
Printed Name: SAIC	Time: 1515	Printed Name: William R Cordell	Time: 1530				
Company		Company: Test America					
Relinquished by Signature: William R Cordell	Date: 3/5/10	Received by Signature: Terry Burns	Date: 3/5/10				
Printed Name: William R Cordell	Time: 1620	Printed Name: TA	Time: 1620				
Company: Test America		Company					

1 6020/7471A
2 8330B
3 3540C/3541/8270C
4 Nitroguanidine:8330 Mod/8332 Mod; Nitrocellulose:9056 Mod/353.2
5 8260B/5021
6 3540C/3541C/8081A
7 3540C/3541C/8082
8 8270C (low level PAHs)
9 600/R-93/116
10 USACE EM1110-2-1906 App II
11 ASTM D5057
12 ASTM D2216
13 EPA 415.1 Mod or SW-846, 9060A Mod or Walkley-Black
14 ASTM D422
15 ASTM D5084/2434

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 440050520
North Canton Facility

Client SAIC Project Load Line 6 By: Jerry Burns
Cooler Received on 3/5/10 Opened on 3/5/10 (Signature)
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☒ Other ____
TestAmerica Cooler # ____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 2 Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other ____
6. Cooler temperature upon receipt 1.5 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 121709-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMS VOLATILE DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Cor

Lab Code: TALCAN SDG No:

Lot #: A0C050520

Extraction: XXA15QKWA

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	LL6SB-069-5222-SO	89	86	74 *	89	01
02	METHOD BLK. LWEQ81AA	87	87	89	89	00
03	LCS LWEQ81AC	87	93	91	89	00
04	LL6SB-069-5222-SO D	86	92	86	92	00
05	LCSD LWEQ81AD	88	93	90	90	00
06	LL6SB-069-5222-SO S	90	88	80 *	92	01

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(61-130)
SRG02	= Toluene-d8	(85-115)
SRG03	= 4-Bromofluorobenzene	(85-120)
SRG04	= Dibromofluoromethane	(59-138)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C080000 WO #: LWEQ81AC
BATCH: 0067386

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	47	95	65- 135	
Trichloroethene	50	41	82	75- 125	
Benzene	50	45	89	75- 125	
Toluene	50	39	77	70- 125	
Chlorobenzene	50	43	85	75- 125	
Acetone	100	98	98	20- 160	
Bromodichloromethane	50	50	100	70- 130	
Bromoform	50	49	98	55- 135	
Bromomethane	50	45	89	30- 160	
2-Butanone	100	93	93	30- 160	
Bromochloromethane	50	47	94	70- 125	
Carbon disulfide	50	48	95	45- 160	
Carbon tetrachloride	50	46	92	65- 135	
Chloroethane	50	47	94	40- 155	
Chloroform	50	46	91	70- 125	
Chloromethane	50	41	82	50- 130	
1,2-Dibromo-3-chloropropa	50	53	106	40- 135	
1,2-Dibromoethane	50	51	101	70- 125	
1,3-Dichlorobenzene	50	41	82	70- 125	
1,4-Dichlorobenzene	50	40	80	70- 125	
1,2-Dichlorobenzene	50	41	82	75- 120	
Dichlorodifluoromethane	50	34	67	35- 135	
1,1-Dichloroethane	50	46	93	75- 125	
1,2-Dichloroethane	50	48	95	70- 135	
trans-1,2-Dichloroethene	50	47	94	65- 135	
cis-1,2-Dichloroethene	50	46	93	65- 125	
1,2-Dichloropropane	50	47	95	70- 120	
cis-1,3-Dichloropropene	50	47	94	70- 125	
trans-1,3-Dichloropropene	50	50	100	65- 125	
Ethylbenzene	50	43	85	75- 125	
2-Hexanone	100	110	108	45- 145	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C080000 WO #: LWEQ81AC
BATCH: 0067386

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Methylene chloride	50	45	90	55 - 140	
4-Methyl-2-pentanone	100	110	108	45 - 145	
Naphthalene	50	49	97	40 - 125	
Styrene	50	45	90	75 - 125	
1,1,1,2-Tetrachloroethane	50	47	95	75 - 125	
1,1,2,2-Tetrachloroethane	50	53	106	55 - 130	
Tetrachloroethene	50	41	82	65 - 140	
1,1,2-Trichloroethane	50	49	97	60 - 125	
1,1,1-Trichloroethane	50	44	88	70 - 135	
Trichlorofluoromethane	50	48	96	25 - 185	
Xylenes (total)	150	130	86	75 - 125	
o-Xylene	50	44	88	75 - 125	
m-Xylene & p-Xylene	100	84	84	80 - 125	
Vinyl chloride	50	42	83	60 - 125	
Isopropylbenzene	50	43	86	75 - 130	
1,1-Dichloropropene	50	45	90	70 - 135	
1,2,3-Trichlorobenzene	50	41	83	60 - 135	
1,2,3-Trichloropropane	50	55	110	65 - 130	
1,2,4-Trichlorobenzene	50	43	85	65 - 130	
2,2-Dichloropropane	50	42	84	65 - 135	
2-Chlorotoluene	50	42	85	70 - 130	
4-Chlorotoluene	50	42	84	75 - 125	
Bromobenzene	50	44	87	65 - 120	
Dibromomethane	50	50	100	75 - 130	
Hexachlorobutadiene	50	35	69	55 - 140	
n-Butylbenzene	50	40	80	65 - 140	
n-Propylbenzene	50	42	85	65 - 135	
p-Isopropyltoluene	50	42	84	75 - 135	
sec-Butylbenzene	50	42	84	65 - 130	
tert-Butylbenzene	50	42	84	65 - 130	
1,2,4-Trimethylbenzene	50	45	90	65 - 135	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C080000 WO #: LWEQ81AC
BATCH: 0067386

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,3,5-Trimethylbenzene	50	44	88	65- 135	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C080000 WO #: LWEQ81AD
BATCH: 0067386

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	46	92	65- 135	
Trichloroethene	50	52	103	75- 125	
Benzene	50	43	87	75- 125	
Toluene	50	38	77	70- 125	
Chlorobenzene	50	42	83	75- 125	
Acetone	100	93	93	20- 160	
Bromodichloromethane	50	49	97	70- 130	
Bromoform	50	48	96	55- 135	
Bromomethane	50	44	88	30- 160	
2-Butanone	100	87	87	30- 160	
Bromochloromethane	50	47	94	70- 125	
Carbon disulfide	50	46	92	45- 160	
Carbon tetrachloride	50	46	91	65- 135	
Chloroethane	50	45	91	40- 155	
Chloroform	50	46	91	70- 125	
Chloromethane	50	40	80	50- 130	
1,2-Dibromo-3-chloropropa	50	48	96	40- 135	
1,2-Dibromoethane	50	49	97	70- 125	
1,3-Dichlorobenzene	50	38	76	70- 125	
1,4-Dichlorobenzene	50	37	73	70- 125	
1,2-Dichlorobenzene	50	38	76	75- 120	
Dichlorodifluoromethane	50	33	66	35- 135	
1,1-Dichloroethane	50	45	91	75- 125	
1,2-Dichloroethane	50	46	92	70- 135	
trans-1,2-Dichloroethene	50	45	91	65- 135	
cis-1,2-Dichloroethene	50	44	88	65- 125	
1,2-Dichloropropane	50	46	91	70- 120	
cis-1,3-Dichloropropene	50	46	91	70- 125	
trans-1,3-Dichloropropene	50	49	98	65- 125	
Ethylbenzene	50	41	82	75- 125	
2-Hexanone	100	99	99	45- 145	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C080000 WO #: LWEQ81AD
BATCH: 0067386

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Methylene chloride	50	43	87	55 - 140	
4-Methyl-2-pentanone	100	97	97	45 - 145	
Naphthalene	50	45	89	40 - 125	
Styrene	50	43	86	75 - 125	
1,1,1,2-Tetrachloroethane	50	46	93	75 - 125	
1,1,2,2-Tetrachloroethane	50	36	72	55 - 130	p
Tetrachloroethene	50	41	82	65 - 140	
1,1,2-Trichloroethane	50	46	92	60 - 125	
1,1,1-Trichloroethane	50	44	87	70 - 135	
Trichlorofluoromethane	50	48	96	25 - 185	
Xylenes (total)	150	120	82	75 - 125	
o-Xylene	50	42	85	75 - 125	
m-Xylene & p-Xylene	100	81	81	80 - 125	
Vinyl chloride	50	41	82	60 - 125	
Isopropylbenzene	50	41	82	75 - 130	
1,1-Dichloropropene	50	44	89	70 - 135	
1,2,3-Trichlorobenzene	50	38	76	60 - 135	
1,2,3-Trichloropropane	50	51	102	65 - 130	
1,2,4-Trichlorobenzene	50	39	77	65 - 130	
2,2-Dichloropropane	50	43	87	65 - 135	
2-Chlorotoluene	50	39	79	70 - 130	
4-Chlorotoluene	50	38	77	75 - 125	
Bromobenzene	50	41	83	65 - 120	
Dibromomethane	50	49	97	75 - 130	
Hexachlorobutadiene	50	30	60	55 - 140	
n-Butylbenzene	50	35	70	65 - 140	
n-Propylbenzene	50	38	77	65 - 135	
p-Isopropyltoluene	50	38	76	75 - 135	
sec-Butylbenzene	50	38	76	65 - 130	
tert-Butylbenzene	50	39	78	65 - 130	
1,2,4-Trimethylbenzene	50	41	82	65 - 135	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C080000 WO #: LWEQ81AD
BATCH: 0067386

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,3,5-Trimethylbenzene	50	40	79	65- 135	

NOTES(S):

p Relative percent difference (RPD) is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LL6SB-069-5222-SO

Lot #: A0C050520 WO #: LWCWJ1CC
BATCH: 0067386

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	61	ND	51	83	65 - 135	
Trichloroethene	61	ND	38	62*	75 - 125	a
Benzene	61	ND	45	74*	75 - 125	a
Toluene	61	ND	38	63*	70 - 125	a
Chlorobenzene	61	ND	35	57*	75 - 125	a
Acetone	120	11	110	82	20 - 160	
Bromodichloromethane	61	ND	45	73	70 - 130	
Bromoform	61	ND	35	58	55 - 135	
Bromomethane	61	ND	52	85	30 - 160	
2-Butanone	120	ND	91	74	30 - 160	
Bromochloromethane	61	ND	47	77	70 - 125	
Carbon disulfide	61	ND	49	80	45 - 160	
Carbon tetrachloride	61	ND	47	77	65 - 135	
Chloroethane	61	ND	55	90	40 - 155	
Chloroform	61	ND	48	79	70 - 125	
Chloromethane	61	ND	49	80	50 - 130	
1,2-Dibromo-3-chloropropa	61	ND	40	65	40 - 135	
1,2-Dibromoethane	61	ND	39	63*	70 - 125	a
1,3-Dichlorobenzene	61	ND	30	48*	70 - 125	a
1,4-Dichlorobenzene	61	ND	27	45*	70 - 125	a
1,2-Dichlorobenzene	61	ND	30	49*	75 - 120	a
Dichlorodifluoromethane	61	ND	39	64	35 - 135	
1,1-Dichloroethane	61	ND	49	79	75 - 125	
1,2-Dichloroethane	61	ND	44	73	70 - 135	
trans-1,2-Dichloroethene	61	ND	48	78	65 - 135	
cis-1,2-Dichloroethene	61	ND	45	73	65 - 125	
1,2-Dichloropropane	61	ND	45	74	70 - 120	
cis-1,3-Dichloropropene	61	ND	34	56*	70 - 125	a

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LL6SB-069-5222-SO

Lot #: A0C050520 WO #: LWCWJ1CC
BATCH: 0067386

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
trans-1,3-Dichloropropene	61	ND	36	58*	65- 125	a
Ethylbenzene	61	ND	37	60*	75- 125	a
2-Hexanone	120	ND	88	72	45- 145	
Methylene chloride	61	6.8	52	74	55- 140	
4-Methyl-2-pentanone	120	ND	92	75	45- 145	
Naphthalene	61	ND	16	25*	40- 125	a
Styrene	61	ND	31	51*	75- 125	a
1,1,1,2-Tetrachloroethane	61	ND	48	78	75- 125	
1,1,2,2-Tetrachloroethane	61	ND	59	96	55- 130	
Tetrachloroethene	61	ND	40	65	65- 140	
1,1,2-Trichloroethane	61	ND	45	74	60- 125	
1,1,1-Trichloroethane	61	ND	46	76	70- 135	
Trichlorofluoromethane	61	ND	54	88	25- 185	
Xylenes (total)	180	ND	110	60	37- 162	
o-Xylene	61	ND	38	62*	75- 125	a
m-Xylene & p-Xylene	120	ND	72	58*	80- 125	a
Vinyl chloride	61	ND	49	80	60- 125	
Methyl tert-butyl ether (	61	ND	53	86	40- 140	
Isopropylbenzene	61	ND	36	58*	75- 130	a
1,1-Dichloropropene	61	ND	45	74	70- 135	
1,2,3-Trichlorobenzene	61	ND	14	23*	60- 135	a
1,2,3-Trichloropropane	61	ND	62	101	65- 130	
1,2,4-Trichlorobenzene	61	ND	14	23*	65- 130	a
2,2-Dichloropropane	61	ND	46	76	65- 135	
2-Chlorotoluene	61	ND	42	69*	70- 130	a
4-Chlorotoluene	61	ND	36	59*	75- 125	a
Bromobenzene	61	ND	39	64*	65- 120	a
Dibromomethane	61	ND	42	69*	75- 130	a

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LL6SB-069-5222-SO

Lot #: A0C050520 WO #: LWCWJ1CC
BATCH: 0067386

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Hexachlorobutadiene	61	ND	23	38*	55 - 140	a
n-Butylbenzene	61	ND	28	45*	65 - 140	a
n-Propylbenzene	61	ND	41	68	65 - 135	
p-Isopropyltoluene	61	ND	37	60*	75 - 135	a
sec-Butylbenzene	61	ND	40	66	65 - 130	
tert-Butylbenzene	61	ND	47	77	65 - 130	
1,2,4-Trimethylbenzene	61	ND	41	68	65 - 135	
1,3,5-Trimethylbenzene	61	ND	45	73	65 - 135	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 25 out of 64 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LL6SB-069-5222-SO

Lot #: A0C050520 WO #: LWCWJ1CD
BATCH: 0067386

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	61	55	90	9.2	35	65- 135	
Trichloroethene	61	46	75	18	30	75- 125	
Benzene	61	50	82	10	30	75- 125	
Toluene	61	45	73	15	30	70- 125	
Chlorobenzene	61	45	73*	24	30	75- 125	a
Acetone	120	120	89	7.0	37	20- 160	
Bromodichloromethane	61	53	87	17	30	70- 130	
Bromoform	61	43	70	20	30	55- 135	
Bromomethane	61	56	91	6.0	30	30- 160	
2-Butanone	120	98	80	8.0	33	30- 160	
Bromochloromethane	61	53	87	12	30	70- 125	
Carbon disulfide	61	55	90	11	36	45- 160	
Carbon tetrachloride	61	54	88	14	30	65- 135	
Chloroethane	61	57	94	4.4	30	40- 155	
Chloroform	61	51	83	4.8	30	70- 125	
Chloromethane	61	50	82	2.5	30	50- 130	
1,2-Dibromo-3-chloropropa	61	42	69	6.3	30	40- 135	
1,2-Dibromoethane	61	48	78	21	30	70- 125	
1,3-Dichlorobenzene	61	39	64*	29	30	70- 125	a
1,4-Dichlorobenzene	61	37	60*	29	30	70- 125	a
1,2-Dichlorobenzene	61	39	64*	27	30	75- 120	a
Dichlorodifluoromethane	61	40	66	2.7	30	35- 135	
1,1-Dichloroethane	61	54	88	11	47	75- 125	
1,2-Dichloroethane	61	50	82	13	43	70- 135	
trans-1,2-Dichloroethene	61	53	87	11	30	65- 135	
cis-1,2-Dichloroethene	61	50	82	12	30	65- 125	
1,2-Dichloropropane	61	52	85	14	30	70- 120	
cis-1,3-Dichloropropene	61	44	72	25	40	70- 125	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LL6SB-069-5222-SO

Lot #: A0C050520 WO #: LWCWJ1CD
BATCH: 0067386

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
trans-1,3-Dichloropropene	61	44	73	22		31	65- 125	
Ethylbenzene	61	46	76	23		30	75- 125	
2-Hexanone	120	100	83	14		31	45- 145	
Methylene chloride	61	56	80	6.5		30	55- 140	
4-Methyl-2-pentanone	120	110	88	15		39	45- 145	
Naphthalene	61	28	45	56	*	30	40- 125	p
Styrene	61	44	71*	32	*	30	75- 125	a p
1,1,1,2-Tetrachloroethane	61	54	88	12		30	75- 125	
1,1,2,2-Tetrachloroethane	61	57	93	2.8		30	55- 130	
Tetrachloroethene	61	48	78	18		30	65- 140	
1,1,2-Trichloroethane	61	50	82	11		30	60- 125	
1,1,1-Trichloroethane	61	52	85	11		30	70- 135	
Trichlorofluoromethane	61	57	92	5.3		30	25- 185	
Xylenes (total)	180	140	77	25		30	37- 162	
o-Xylene	61	48	78	23		30	75- 125	
m-Xylene & p-Xylene	120	93	76*	26		30	80- 125	a
Vinyl chloride	61	52	85	6.0		30	60- 125	
Methyl tert-butyl ether (	61	59	96	10		50	40- 140	
Isopropylbenzene	61	48	78	28		30	75- 130	
1,1-Dichloropropene	61	51	83	12		30	70- 135	
1,2,3-Trichlorobenzene	61	24	39*	54	*	30	60- 135	a p
1,2,3-Trichloropropane	61	59	97	4.0		30	65- 130	
1,2,4-Trichlorobenzene	61	24	39*	51	*	30	65- 130	a p
2,2-Dichloropropane	61	51	83	9.0		30	65- 135	
2-Chlorotoluene	61	49	81	16		30	70- 130	
4-Chlorotoluene	61	45	73*	22		30	75- 125	a
Bromobenzene	61	45	74	15		30	65- 120	
Dibromomethane	61	51	84	19		30	75- 130	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LL6SB-069-5222-SO

Lot #: A0C050520 WO #: LWCWJ1CD
BATCH: 0067386

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Hexachlorobutadiene	61	36	60	44		50	55 - 140	
n-Butylbenzene	61	41	67	40	*	30	65 - 140	p
n-Propylbenzene	61	51	84	21		30	65 - 135	
p-Isopropyltoluene	61	49	80	28		30	75 - 135	
sec-Butylbenzene	61	51	84	24		30	65 - 130	
tert-Butylbenzene	61	55	89	14		30	65 - 130	
1,2,4-Trimethylbenzene	61	52	85	22		30	65 - 135	
1,3,5-Trimethylbenzene	61	53	86	17		30	65 - 135	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 5 out of 64 outside limits
Spike Recovery: 9 out of 64 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LWEQ81AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN SDG Number:

Lab File ID: UX82742.D Lot Number: A0C050520

Date Analyzed: 03/05/10 Time Analyzed: 22:32

Matrix: SOLID Date Extracted:03/05/10

GC Column: DB 624 ID: .18 Extraction Method: 5030B

Instrument ID: UX8 Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LL6SB-069-5222-SO	LWCWJ1AC	UX82755.D	03/06/10	03:30
02	LL6SB-069-5222-SO	LWCWJ1CC S	UX82757.D	03/06/10	04:13
03	LL6SB-069-5222-SO	LWCWJ1CD D	UX82758.D	03/06/10	04:35
04	CHECK SAMPLE	LWEQ81AC C	UX82740.D	03/05/10	21:48
05	DUPLICATE CHECK	LWEQ81AD L	UX82741.D	03/05/10	22:10
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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17					
18					
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28					
29					
30					

COMMENTS:

FORM IV

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0C050520

Lab File ID: BFB8199 BFB Injection Date: 02/26/10

Instrument ID: A3UX8A BFB Injection Time: 1728

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.1
75	30.0 - 60.0% of mass 95	49.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	83.9
175	5.0 - 9.0% of mass 174	6.3 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	81.3 (96.9)1
177	5.0 - 9.0% of mass 176	4.7 (5.7)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	UX82632	02/26/10	1811
02	VSTD100	500NG-IC	UX82633	02/26/10	1832
03	VSTD050	250NG-IC	UX82634	02/26/10	1853
04	VSTD020	100NG-IC	UX82635	02/26/10	1915
05	VSTD010	50NG-IC	UX82636	02/26/10	1936
06	VSTD005	25NG-IC	UX82637	02/26/10	1957
07	VSTD005	10NG-IC	UX82638	02/26/10	2019
08	VSTD001	5NG-IC	UX82639	02/26/10	2040
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0C050520

Lab File ID: BFB8205 BFB Injection Date: 03/05/10

Instrument ID: A3UX8A BFB Injection Time: 2001

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.4
75	30.0 - 60.0% of mass 95	47.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	79.6
175	5.0 - 9.0% of mass 174	6.0 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	76.4 (95.9)1
177	5.0 - 9.0% of mass 176	4.9 (6.4)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX82737	03/05/10	2044
02	INTRA-LAB CH	LWEQ81AC	UX82740	03/05/10	2148
03	INTRA-LAB CH	LWEQ81AD	UX82741	03/05/10	2210
04	INTRA-LAB BL	LWEQ81AA	UX82742	03/05/10	2232
05	LL6SB-069-52	LWCWJ1AC	UX82755	03/06/10	0330
06	LL6SB-069-52	LWCWJ1CC	UX82757	03/06/10	0413
07	LL6SB-069-52	LWCWJ1CD	UX82758	03/06/10	0435
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0C050520

Lab File ID (Standard): UX82737 Date Analyzed: 03/05/10

Instrument ID: A3UX8A Time Analyzed: 2044

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
	12 HOUR STD	1124023	5.30	872734	7.85	452625	10.04
	UPPER LIMIT	2248046	5.80	1745468	8.35	905250	10.54
	LOWER LIMIT	562012	4.80	436367	7.35	226313	9.54
	EPA SAMPLE NO.						
01	INTRA-LAB CH	1126499	5.30	901255	7.85	453945	10.04
02	INTRA-LAB CH	1114381	5.31	875306	7.85	449368	10.04
03	INTRA-LAB BL	1114072	5.31	848888	7.85	442638	10.04
04	LL6SB-069-52	993580	5.31	701165	7.85	253243	10.04
05	LL6SB-069-52	1035109	5.31	719855	7.85	267791	10.04
06	LL6SB-069-52	1032260	5.31	776088	7.85	344785	10.04
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

GC/MS Volatiles

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ1AC **Matrix.....:** SO
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/06/10
Prep Batch #...: 0067386
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	ND	6.1	ug/kg	0.45
Chlorobenzene	ND	6.1	ug/kg	0.40
Acetone	**11 J**	**24**	**ug/kg**	**7.7**
Benzene	ND	6.1	ug/kg	0.28
Bromochloromethane	ND	6.1	ug/kg	0.87
Bromodichloromethane	ND	6.1	ug/kg	0.34
Bromoform	ND	6.1	ug/kg	0.40
Bromomethane	ND	6.1	ug/kg	0.66
2-Butanone	ND	24	ug/kg	1.7
Carbon disulfide	ND	6.1	ug/kg	0.54
Dibromochloromethane	ND	6.1	ug/kg	0.67
Chloroethane	ND	6.1	ug/kg	1.1
Chloroform	ND	6.1	ug/kg	0.36
Chloromethane	ND	6.1	ug/kg	0.50
1,2-Dibromoethane	ND	6.1	ug/kg	0.61
1,1-Dichloroethane	ND	6.1	ug/kg	0.44
1,2-Dichloroethane	ND	6.1	ug/kg	0.42
1,1-Dichloroethene	ND	6.1	ug/kg	0.64
1,2-Dichloroethene (total)	ND	6.1	ug/kg	0.94
1,2-Dichloropropane	ND	6.1	ug/kg	0.84
cis-1,3-Dichloropropene	ND	6.1	ug/kg	0.42
trans-1,3-Dichloropropene	ND	6.1	ug/kg	0.66
Ethylbenzene	ND	6.1	ug/kg	0.32
2-Hexanone	ND	24	ug/kg	0.77
Methylene chloride	**6.8 B**	**6.1**	**ug/kg**	**0.82**
4-Methyl-2-pentanone	ND	24	ug/kg	0.66
Styrene	ND	6.1	ug/kg	0.18
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	0.42
Tetrachloroethene	ND	6.1	ug/kg	0.64
Toluene	ND	6.1	ug/kg	0.33
1,1,1-Trichloroethane	ND	6.1	ug/kg	0.69
1,1,2-Trichloroethane	ND	6.1	ug/kg	0.48
Trichloroethene	ND	6.1	ug/kg	0.51
Vinyl chloride	ND	6.1	ug/kg	0.48
Xylenes (total)	ND	12	ug/kg	0.82

(Continued on next page)

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

GC/MS Volatiles

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ1AC **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	86	(85 - 115)
4-Bromofluorobenzene	74 *	(85 - 120)
Dibromofluoromethane	89	(59 - 138)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82755.D
Report Date: 08-Mar-2010 17:37

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82755.D
Lab Smp Id: LWCWJ1AC Client Smp ID: LL6SB-069-5222-SO
Inj Date : 06-MAR-2010 03:30
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : LWCWJ1AC,5G/5ML
Misc Info : M00305B,8260SUX8,1-8260.SUB,402279
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Meth Date : 05-Mar-2010 21:26 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40 Cal File: UX82639.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	5.306	5.304	(1.000)	993580	250.000	
* 2 Chlorobenzene-d5	117	7.849	7.847	(1.000)	701165	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.039	10.037	(1.000)	253243	250.000	
$ 4 Dibromofluoromethane	113	4.783	4.787	(0.901)	184731	222.464	44.493
$ 5 1,2-Dichloroethane-d4	65	5.057	5.055	(0.953)	232967	222.729	44.546
$ 6 Toluene-d8	98	6.578	6.582	(1.240)	722113	213.928	42.786
$ 7 Bromofluorobenzene	95	8.926	8.924	(1.137)	211125	184.365	36.873
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	3.098	3.096	(0.584)	45560	44.8665	8.973
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	3.445	3.437	(0.649)	27557	27.6789	5.536

22 Acetonitrile	41	3.329	3.333 (0.627)	3915	22.0032	4.401
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82755.D
Report Date: 08-Mar-2010 17:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					
	76 tert-Butylbenzene	119	Compound Not Detected.					

77	1,2,4-Trimethylbenzene	105	Compound Not Detected.
78	sec-Butylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82755.D
Report Date: 08-Mar-2010 17:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82755.D
Report Date: 08-Mar-2010 17:37

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82755.D
Lab Smp Id: LWCWJ1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279

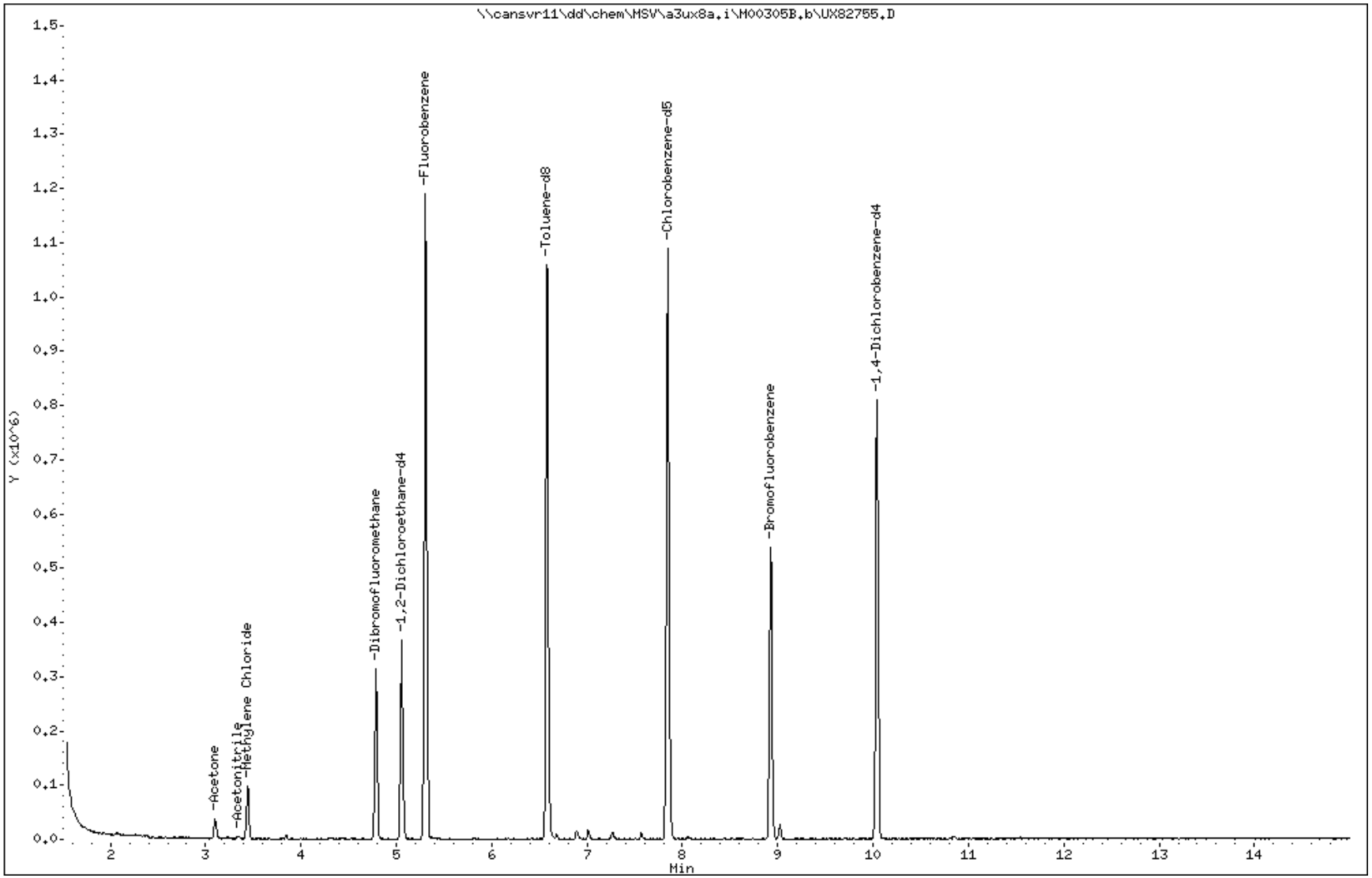
Calibration Date: 05-MAR-2010
Calibration Time: 20:44
Client Smp ID: LL6SB-069-5222-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1124023	562012	2248046	993580	-11.61
2 Chlorobenzene-d5	872734	436367	1745468	701165	-19.66
3 1,4-Dichlorobenze	452625	226313	905250	253243	-44.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.04
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	0.02
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82755.D
Date : 06-MAR-2010 03:30
Client ID: LL6SB-069-5222-SO
Instrument: a3ux8a.i
Sample Info: LWCWJ1AC,5G/5ML
Purge Volume: 5.0
Operator: 402279
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82755.D

Date : 06-MAR-2010 03:30

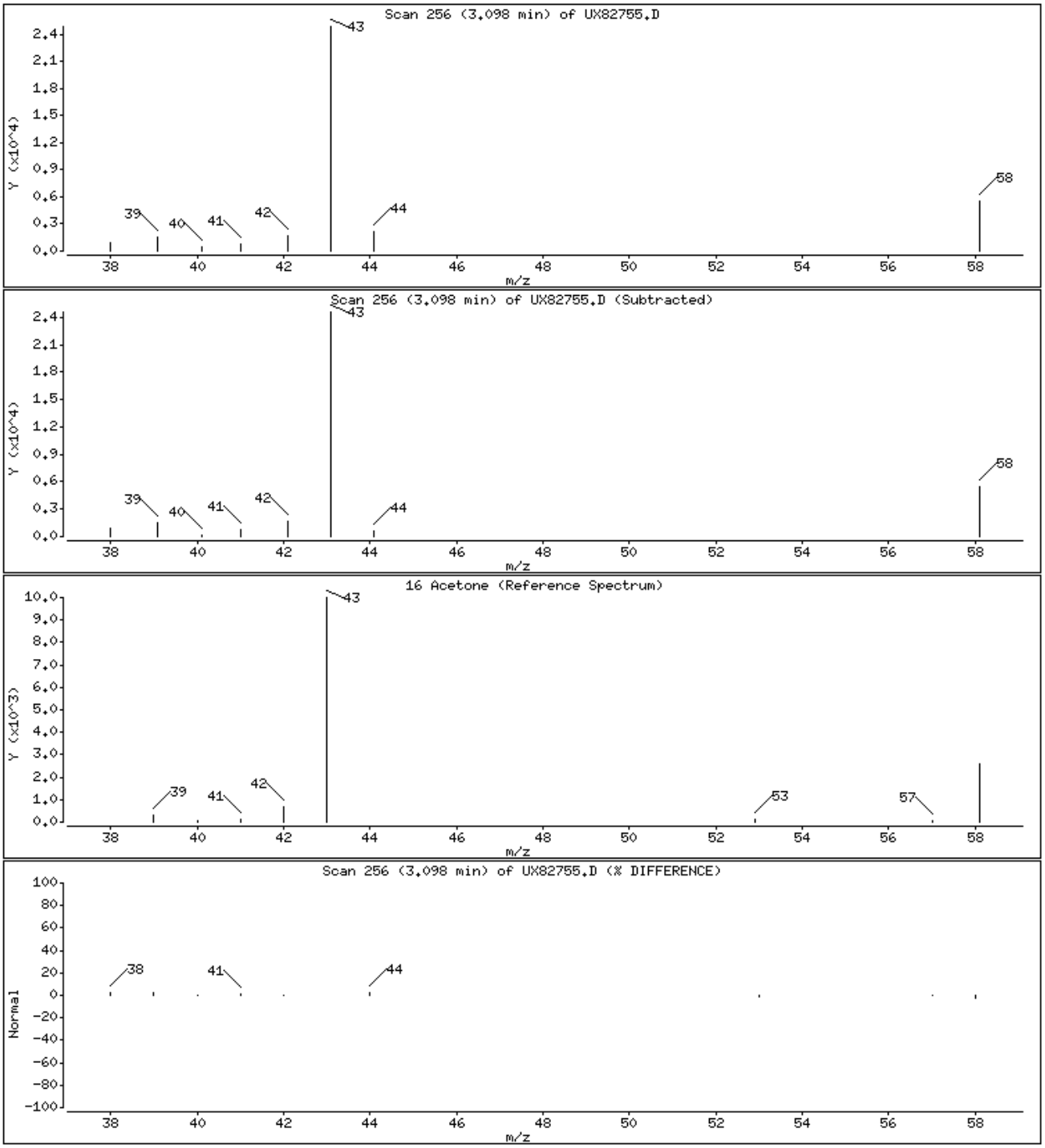
Client ID: LL6SB-069-5222-SO | Instrument: a3ux8a.i

Sample Info: LWCWJ1AC,5G/5ML

Purge Volume: 5.0 | Operator: 402279

Column phase: DB624 | Column diameter: 0.18

16 Acetone | Concentration: 8.973 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82755.D

Date : 06-MAR-2010 03:30

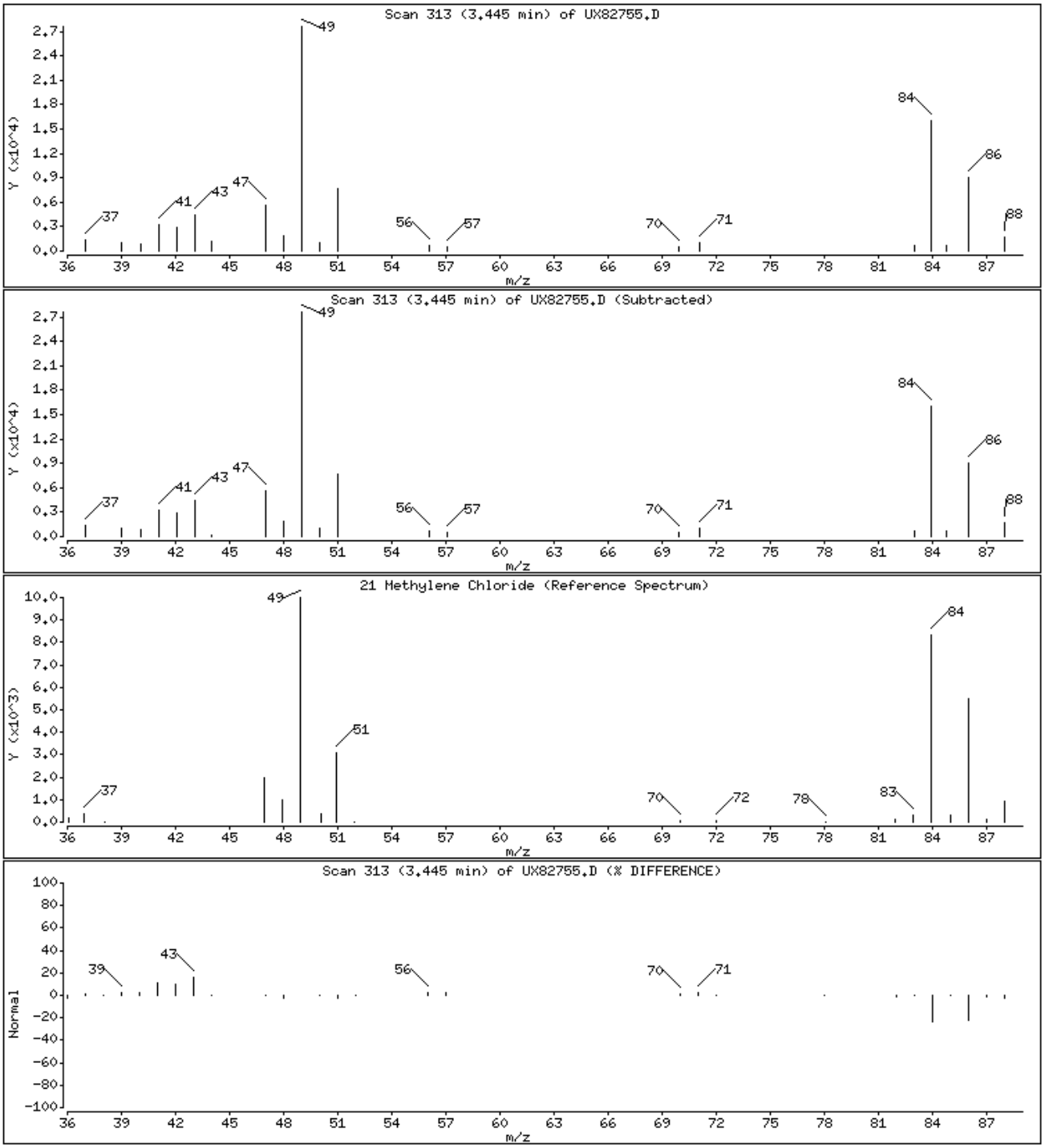
Client ID: LL6SB-069-5222-SO | Instrument: a3ux8a.i

Sample Info: LWCWJ1AC,5G/5ML

Purge Volume: 5.0 | Operator: 402279

Column phase: DB624 | Column diameter: 0.18

21 Methylene Chloride | Concentration: 5.536 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82755.D

Date : 06-MAR-2010 03:30

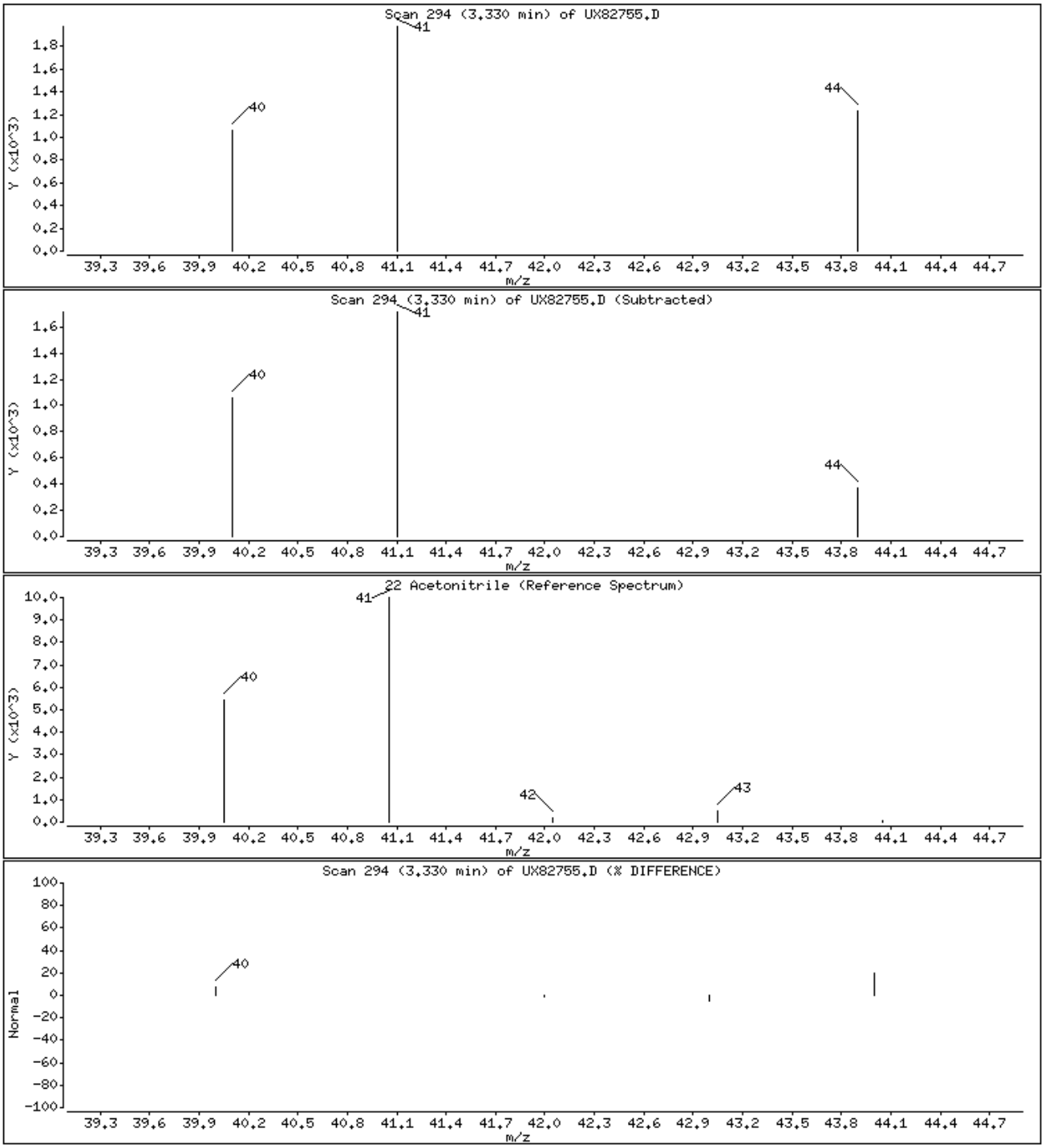
Client ID: LL6SB-069-5222-SO | Instrument: a3ux8a.i

Sample Info: LWCWJ1AC,5G/5ML

Purge Volume: 5.0 | Operator: 402279

Column phase: DB624 | Column diameter: 0.18

22 Acetonitrile | Concentration: 4.401 UG/KG



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 26-Feb-2010 23:11

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Start Cal Date: 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
26-FEB-2010 20:40	1-8260	\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82639.D
Cal Level: 2 , Cal Amount: 10.00000		
26-FEB-2010 20:19	1-8260	\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82638.D
Cal Level: 3 , Cal Amount: 25.00000		
14-DEC-2009 21:42	BENZCL	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81431.D
02-DEC-2009 02:01	3-IX+	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81311.D
26-FEB-2010 19:57	1-8260	\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82637.D
Cal Level: 4 , Cal Amount: 50.00000		
14-DEC-2009 21:20	BENZCL	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81430.D
02-DEC-2009 01:39	3-IX+	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81310.D
26-FEB-2010 19:36	1-8260	\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82636.D
Cal Level: 5 , Cal Amount: 100.00000		
14-DEC-2009 20:58	BENZCL	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81429.D
02-DEC-2009 01:17	3-IX+	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81309.D
26-FEB-2010 19:15	1-8260	\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82635.D
Cal Level: 6 , Cal Amount: 250.00000		
14-DEC-2009 20:35	BENZCL	

\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81428.D		
02-DEC-2009 00:55	3-IX+	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81308.D		
26-FEB-2010 18:53	1-8260	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82634.D		

Cal Level: 7 , Cal Amount: 500.00000		
14-DEC-2009 20:13	BENZCL	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81427.D		
02-DEC-2009 00:34	3-IX+	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81307.D		
26-FEB-2010 18:32	1-8260	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82633.D		

Cal Level: 8 , Cal Amount: 1000.00000		
14-DEC-2009 19:51	BENZCL	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81426.D		
02-DEC-2009 00:12	3-IX+	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81306.D		
26-FEB-2010 18:11	1-8260	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82632.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

26-FEB-2010 18:53	1-8260	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82634.D		
26-FEB-2010 21:23	3-IX	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82641.D		

Report Date : 26-Feb-2010 23:04

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82639.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82638.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81431.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81430.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81429.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81428.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81427.D
Level 8: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81426.D

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
8 Dichlorodifluoromethane	0.12405	0.15033	0.14919	0.16906	0.17049	0.17369		
	0.17381	0.19074					0.16267	12.644
9 Chloromethane	0.26560	0.28350	0.28266	0.29940	0.28844	0.28409		
	0.27746	0.29518					0.28454	3.669
10 Vinyl Chloride	+++++	0.16344	0.18452	0.20408	0.20806	0.20503		
	0.20225	0.22124					0.19837	9.476
11 Bromomethane	0.08557	0.10389	0.09889	0.10967	0.09893	0.09163		
	0.06921	+++++					0.09397	14.295
12 Chloroethane	0.07893	0.11014	0.11128	0.11328	0.11807	0.11325		
	0.10454	0.09457					0.10551	12.200
13 Trichlorofluoromethane	0.14918	0.20081	0.19640	0.21148	0.21775	0.21395		
	0.20170	0.21123					0.20031	10.946
14 Dichlorofluoromethane	+++++	+++++	0.25335	0.25004	0.27000	0.24867		
	0.24275	0.22986					0.24911	5.284
15 Acrolein	0.04801	0.04977	0.05905	0.06202	0.04517	0.05200		
	0.05135	0.04975					0.05214	10.823

Report Date : 26-Feb-2010 23:04

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
16 Acetone	+++++	+++++	0.25598	0.19848	0.14754	0.12428		
	0.11569	0.11794					0.15999	35.200
17 1,1-Dichloroethene	0.15548	0.19172	0.17239	0.18774	0.19791	0.17170		
	0.17199	0.18410					0.17913	7.669
18 Freon-113	0.12930	0.13081	0.15413	0.14870	0.16675	0.14025		
	0.14491	0.15553					0.14630	8.714
19 Iodomethane	0.33803	0.36831	0.38102	0.40773	0.41432	0.37429		
	0.37130	0.38858					0.38045	6.304
20 Carbon Disulfide	0.42708	0.46528	0.46679	0.51740	0.54728	0.50582		
	0.52103	0.56427					0.50187	9.144
21 Methylene Chloride	+++++	+++++	0.29497	0.28016	0.26237	0.22399		
	0.21594	0.22561					0.25051	13.257
22 Acetonitrile	0.05120	0.04741	0.04853	0.05045	0.04127	0.04073		
	0.03856	0.04001					0.04477	11.468
23 Acrylonitrile	0.11250	0.11067	0.12519	0.13154	0.11545	0.11325		
	0.11269	0.11883					0.11751	6.229
24 Methyl tert-butyl ether	0.35444	0.36336	0.36301	0.38185	0.39166	0.35104		
	0.37595	0.39485					0.37202	4.457
25 trans-1,2-Dichloroethene	0.17819	0.19892	0.22084	0.22861	0.24139	0.20897		
	0.20548	0.21732					0.21246	9.089
26 Hexane	+++++	0.03553	0.04725	0.04871	0.05372	0.04811		
	0.04603	0.05111					0.04721	12.184

Report Date : 26-Feb-2010 23:04

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
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Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
		500.000 Level 7	1000.000 Level 8						
	27 Vinyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
		+++++	+++++						
	28 1,1-Dichloroethane	0.38880	0.40411	0.40398	0.42390	0.45101	0.38906		
		0.37624	0.40855					0.40571	5.764
	29 tert-Butyl Alcohol	0.01768	0.01960	0.02047	0.02008	0.01947	0.01757		
		0.01819	0.01848					0.01894	5.851
	30 2-Butanone	0.25620	0.22085	0.21042	0.20891	0.18065	0.17963		
		0.17458	0.18630					0.20219	13.693
M	31 1,2-Dichloroethene (total)	0.19919	0.22415	0.23827	0.24460	0.25362	0.22462		
		0.21625	0.23082					0.22894	7.443
	32 cis-1,2-dichloroethene	0.22018	0.24938	0.25570	0.26059	0.26585	0.24027		
		0.22703	0.24433					0.24541	6.483
	33 2,2-Dichloropropane	0.17363	0.19405	0.18789	0.20788	0.22641	0.20595		
		0.20739	0.21388					0.20213	8.114
	34 Bromochloromethane	0.10432	0.12623	0.13493	0.13521	0.14281	0.12733		
		0.12220	0.13112					0.12802	8.990
	35 Chloroform	0.34562	0.36723	0.36059	0.36806	0.39107	0.34946		
		0.33202	0.35927					0.35916	4.912
	36 Tetrahydrofuran	0.13659	0.12466	0.12330	0.12756	0.12488	0.10779		
		0.11586	0.12376					0.12305	6.832
	37 1,1,1-Trichloroethane	0.25846	0.27346	0.29287	0.32061	0.33969	0.30326		
		0.30911	0.32912					0.30332	9.101

Report Date : 26-Feb-2010 23:04

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
38 1,1-Dichloropropene	0.18220	0.23783	0.24429	0.26024	0.28361	0.25109			
	0.24453	0.26285					0.24583	11.977	
39 Carbon Tetrachloride	0.20224	0.23173	0.25440	0.26574	0.29998	0.27462			
	0.28331	0.30515					0.26465	13.106	
40 1,2-Dichloroethane	0.34780	0.34274	0.36218	0.35312	0.36471	0.32919			
	0.31443	0.33437					0.34357	4.973	
41 Benzene	0.83507	0.80687	0.81069	0.85370	0.88112	0.79207			
	0.76964	0.81559					0.82059	4.294	
42 Trichloroethene	0.23441	0.22177	0.23792	0.24601	0.33152	0.23852			
	0.23330	0.27055					0.25175	13.969	
43 1,2-Dichloropropane	0.21359	0.22438	0.21404	0.23206	0.24872	0.22680			
	0.21890	0.23184					0.22629	5.113	
44 1,4-Dioxane	+++++	0.00166	0.00229	0.00225	0.00225	0.00210			
	0.00199	0.00226					0.00211	10.851	<-
45 Dibromomethane	0.11939	0.11780	0.12584	0.13136	0.13624	0.12302			
	0.11885	0.12727					0.12497	5.219	
46 Bromodichloromethane	0.20080	0.21503	0.21277	0.22875	0.24886	0.24033			
	0.23934	0.26309					0.23112	8.972	
47 2-Chloroethyl vinyl ether	+++++	0.05157	0.06155	0.07508	0.07147	0.07191			
	0.07216	0.07742					0.06874	13.162	
48 cis-1,3-Dichloropropene	+++++	0.25630	0.23793	0.28164	0.30448	0.30248			
	0.29966	0.32693					0.28706	10.718	

Report Date : 26-Feb-2010 23:04

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
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Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
49 4-Methyl-2-pentanone	0.25035	0.27475	0.33119	0.38690	0.34358	0.35808		
	0.35288	0.37563					0.33417	14.340
50 Toluene	1.59964	1.46215	1.21985	1.20217	1.29409	1.13474		
	1.08613	1.15470					1.26918	13.926
51 trans-1,3-Dichloropropene	+++++	0.25110	0.26689	0.29952	0.34921	0.34420		
	0.34375	0.37803					0.31896	14.789
52 Ethyl Methacrylate	+++++	0.26406	0.28550	0.33359	0.37373	0.36576		
	0.36334	0.38597					0.33885	13.857
53 1,1,2-Trichloroethane	0.22493	0.24439	0.24814	0.24977	0.26604	0.23761		
	0.22776	0.24067					0.24242	5.391
54 1,3-Dichloropropane	0.43034	0.43150	0.41021	0.41805	0.44574	0.39932		
	0.38843	0.40566					0.41616	4.554
55 Tetrachloroethene	0.22551	0.23581	0.21160	0.22706	0.25758	0.22760		
	0.22482	0.23998					0.23125	5.852
56 2-Hexanone	+++++	0.23059	0.27937	0.34272	0.30061	0.31049		
	0.30233	0.31773					0.29769	11.845
57 Dibromochloromethane	+++++	+++++	0.21711	0.23260	0.27075	0.26282		
	0.26355	0.29199					0.25647	10.571
58 1,2-Dibromoethane	0.19196	0.23811	0.23635	0.25022	0.27351	0.24591		
	0.23906	0.25403					0.24114	9.630
59 Chlorobenzene	0.82149	0.83229	0.82987	0.84500	0.89851	0.79732		
	0.76245	0.80396					0.82386	4.812

Report Date : 26-Feb-2010 23:04

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
		500.000 Level 7	1000.000 Level 8						
	60 1,1,1,2-Tetrachloroethane	0.22449	0.25029	0.26327	0.29230	0.31881	0.28947		
		0.29266	0.31029					0.28020	11.342
	61 Ethylbenzene	0.40915	0.36463	0.41778	0.44116	0.48794	0.42324		
		0.42094	0.44292					0.42597	8.183
	62 m + p-Xylene	0.47804	0.49250	0.51946	0.55086	0.59870	0.52982		
		0.51670	0.54019					0.52828	7.021
M	63 Xylenes (total)	0.46346	0.49918	0.51191	0.54550	0.59493	0.52993		
		0.51713	0.53697					0.52488	7.260
	64 Xylene-o	0.43431	0.51254	0.49682	0.53477	0.58739	0.53015		
		0.51800	0.53051					0.51806	8.281
	65 Styrene	0.67320	0.66744	0.76522	0.83169	0.90410	0.84446		
		0.82407	0.86109					0.79641	10.914
	66 Bromoform	+++++	+++++	0.11170	0.12976	0.14395	0.14621		
		0.15387	0.17386					0.14322	14.767
	67 Isopropylbenzene	1.00410	1.10870	1.19672	1.35622	1.49917	1.34759		
		1.35511	1.41113					1.28484	12.939
	68 1,1,2,2-Tetrachloroethane	0.54194	0.53653	0.56138	0.58547	0.47590	0.54058		
		0.54462	0.52120					0.53845	5.875
	69 1,4-Dichloro-2-butene	+++++	0.17490	0.19878	0.23927	0.23785	0.22933		
		0.23572	0.26161					0.22535	12.860
	70 1,2,3-Trichloropropane	+++++	0.19323	0.20345	0.21159	0.22184	0.18860		
		0.18656	0.19277					0.19972	6.564

Report Date : 26-Feb-2010 23:04

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
71 Bromobenzene	0.65606	0.72885	0.66843	0.68958	0.78207	0.67705		
	0.63871	0.68307					0.69048	6.580
72 n-Propylbenzene	+++++	0.61914	0.63273	0.70676	0.82241	0.71470		
	0.70222	0.76044					0.70834	9.895
73 2-Chlorotoluene	0.61113	0.67211	0.59425	0.66004	0.74454	0.63963		
	0.61439	0.66338					0.64993	7.287
74 1,3,5-Trimethylbenzene	1.64479	1.76805	1.86331	2.09907	2.42864	2.11572		
	2.09928	2.28125					2.03751	12.896
75 4-Chlorotoluene	0.58028	0.65190	0.65695	0.69488	0.77166	0.66463		
	0.63734	0.68001					0.66721	8.138
76 tert-Butylbenzene	1.51401	1.72171	1.70851	1.89381	2.18935	1.91364		
	1.90836	2.07620					1.86570	11.515
77 1,2,4-Trimethylbenzene	1.56268	1.78944	1.89116	2.18007	2.46860	2.17334		
	2.13246	2.29968					2.06218	14.267
78 sec-Butylbenzene	1.99024	2.18207	2.28897	2.55689	3.04024	2.69149		
	2.66047	2.89080					2.53765	14.164
79 4-Isopropyltoluene	+++++	1.59406	1.87474	2.18767	2.51330	2.23245		
	2.20576	2.41127					2.14561	14.693
80 1,3-Dichlorobenzene	1.29894	1.31056	1.27895	1.31196	1.45666	1.25651		
	1.20823	1.27823					1.30001	5.519
81 1,4-Dichlorobenzene	1.47296	1.41370	1.30161	1.37140	1.47297	1.27907		
	1.22793	1.31338					1.35663	6.711

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Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
82 n-Butylbenzene	+++++	1.38361	1.44730	1.73240	1.93601	1.79209			
	1.78167	1.97825					1.72162	13.203	
83 1,2-Dichlorobenzene	1.31521	1.30354	1.23674	1.29460	1.34592	1.20177			
	1.14085	1.23896					1.25970	5.375	
84 1,2-Dibromo-3-chloropropane	+++++	+++++	0.08750	0.09591	0.10176	0.09966			
	0.11102	0.12340					0.10321	12.128	
85 1,2,4-Trichlorobenzene	0.67581	0.67770	0.66905	0.74725	0.72279	0.72191			
	0.70140	0.77163					0.71094	5.167	
86 Hexachlorobutadiene	0.31757	0.32016	0.31328	0.36557	0.36600	0.34577			
	0.33549	0.37178					0.34195	6.967	
87 Naphthalene	1.63304	1.60862	1.71169	1.87025	1.94957	1.91753			
	1.93387	2.00460					1.82865	8.437	
88 1,2,3-Trichlorobenzene	0.71376	0.68147	0.62595	0.74007	0.71654	0.69100			
	0.65740	0.70534					0.69144	5.253	
89 Ethyl Ether	+++++	+++++	0.22155	0.22474	0.23001	0.21922			
	0.21696	0.21280					0.22088	2.733	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
91 3-Chloropropene	+++++	+++++	0.08646	0.08668	0.09477	0.09398			
	0.10308	0.10587					0.09514	8.494	
92 Isopropyl Ether	+++++	+++++	0.20024	0.20619	0.21223	0.20401			
	0.20163	0.18957					0.20231	3.721	

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Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
93 2-Chloro-1,3-butadiene	+++++	+++++	0.29245	0.30647	0.32138	0.31741			
	0.32866	0.33965					0.31767	5.228	
94 Propionitrile	+++++	+++++	0.03686	0.03888	0.03834	0.04131			
	0.03990	0.04078					0.03934	4.195	
95 Ethyl Acetate	+++++	+++++	0.30869	0.29016	0.29870	0.32011			
	0.29941	0.31397					0.30517	3.629	
96 Methacrylonitrile	+++++	+++++	0.18920	0.18164	0.19183	0.20217			
	0.19242	0.20207					0.19322	4.083	
97 Isobutanol	+++++	+++++	0.01175	0.01325	0.01340	0.01517			
	0.01455	0.01428					0.01373	8.795	
98 Cyclohexane	0.70562	0.63964	0.57394	0.55282	0.59280	0.50876			
	0.49716	0.52899					0.57496	12.230	
99 n-Butanol	+++++	+++++	0.00600	0.00713	0.00779	0.00878			
	0.00928	0.00884					0.00797	15.599	<-
100 Methyl Methacrylate	+++++	+++++	0.24891	0.25649	0.26534	0.28802			
	0.28075	0.28985					0.27156	6.312	
101 2-Nitropropane	+++++	+++++	0.10551	0.06538	0.05683	0.06369			
	0.06264	0.06976					0.07064	24.904	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
103 Cyclohexanone	+++++	+++++	0.12091	0.12690	0.14796	0.16543			
	0.15433	0.15968					0.14587	12.385	

Report Date : 26-Feb-2010 23:04

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Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
105 Benzyl Chloride	+++++	+++++	0.49804	0.55641	0.63117	0.71067			
	0.92355	1.07434					0.73236	30.537	
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
141 1,3,5-Trichlorobenzene	0.78192	0.81465	0.75800	0.83781	0.85223	0.78974			
	0.78413	0.86672					0.81065	4.747	
143 Methyl Acetate	0.28664	0.33307	0.29506	0.32846	0.28192	0.27225			
	0.27133	0.30581					0.29682	8.032	

Report Date : 26-Feb-2010 23:04

TestAmerica North Canton

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Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
144 Methylcyclohexane	0.35073	0.36003	0.38097	0.40583	0.45075	0.40278			
	0.40688	0.44455					0.40032	8.975	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
146 2-Methylnaphthalene	+++++	+++++	0.68330	0.87180	1.17197	1.21291			
	1.23668	1.16751					1.05736	21.399	
147 Ethyl Acrylate	+++++	+++++	0.33186	0.29140	0.31123	0.36049			
	0.32704	0.34993					0.32866	7.662	
148 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
149 1,2:3,4-Diepoxybutane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
150 Bromoacetone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
151 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
152 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
153 Vinyl Acetate-86	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
154 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

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Last Edit : 26-Feb-2010 23:01 latat
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
155 tert-Butyl Ethyl ether	+++++	+++++	0.73848	0.74709	0.78121	0.78413		
	0.81375	0.79926					0.77732	3.770
156 tert-Amyl Methyl ether	+++++	+++++	0.52848	0.54911	0.57935	0.59715		
	0.60976	0.61016					0.57900	5.827
157 1,2,3-Trimethylbenzene	+++++	+++++	1.90657	1.98463	2.19152	2.13000		
	2.18979	2.21636					2.10315	6.072
$ 4 Dibromofluoromethane	0.21399	0.23601	0.21228	0.20396	0.19331	0.20164		
	0.20074	0.20957					0.20894	6.159
$ 5 1,2-Dichloroethane-d4	0.38796	0.35038	0.31819	0.29255	0.26679	0.24461		
	0.25297	0.26690					0.29754	17.086
$ 6 Toluene-d8	0.98867	0.87613	0.83024	0.79111	0.79698	0.83844		
	0.82462	0.84844					0.84933	7.361
$ 7 Bromofluorobenzene	0.59240	0.51088	0.47046	0.41843	0.40977	0.40426		
	0.40195	0.40563					0.45172	15.283

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TestAmerica North Canton

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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82639.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82638.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81431.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81430.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81429.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81428.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81427.D
Level 8: \\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81426.D

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
8 Dichlorodifluoromethane	0.12405	0.15033	0.14919	0.16906	0.17049	0.17369					
	0.17381	0.19074					AVRG		0.16267		12.64355
9 Chloromethane	0.26560	0.28350	0.28266	0.29940	0.28844	0.28409					
	0.27746	0.29518					AVRG		0.28454		3.66924
10 Vinyl Chloride	+++++	0.16344	0.18452	0.20408	0.20806	0.20503					
	0.20225	0.22124					AVRG		0.19837		9.47646

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Compound	5.0000 Level 1 / 500.0000 Level 7	10.0000 Level 2 / 1000.0000 Level 8	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
11 Bromomethane	0.08557	0.10389	0.09889	0.10967	0.09893	0.09163					
	0.06921	+++++					AVRG		0.09397		14.29527
12 Chloroethane	0.07893	0.11014	0.11128	0.11328	0.11807	0.11325					
	0.10454	0.09457					AVRG		0.10551		12.19952
13 Trichlorofluoromethane	0.14918	0.20081	0.19640	0.21148	0.21775	0.21395					
	0.20170	0.21123					AVRG		0.20031		10.94627
14 Dichlorofluoromethane	+++++	+++++	0.25335	0.25004	0.27000	0.24867					
	0.24275	0.22986					AVRG		0.24911		5.28434
15 Acrolein	0.04801	0.04977	0.05905	0.06202	0.04517	0.05200					
	0.05135	0.04975					AVRG		0.05214		10.82271
16 Acetone	+++++	+++++	48640	76002	117681	253501					
	446182	914290					LINR	-0.22388	0.11369		0.99918
17 1,1-Dichloroethene	0.15548	0.19172	0.17239	0.18774	0.19791	0.17170					
	0.17199	0.18410					AVRG		0.17913		7.66881

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
18 Freon-113	0.12930	0.13081	0.15413	0.14870	0.16675	0.14025					
	0.14491	0.15553					AVRG		0.14630		8.71420
19 Iodomethane	0.33803	0.36831	0.38102	0.40773	0.41432	0.37429					
	0.37130	0.38858					AVRG		0.38045		6.30378
20 Carbon Disulfide	0.42708	0.46528	0.46679	0.51740	0.54728	0.50582					
	0.52103	0.56427					AVRG		0.50187		9.14424
21 Methylene Chloride	+++++	+++++	0.29497	0.28016	0.26237	0.22399					
	0.21594	0.22561					AVRG		0.25051		13.25733
22 Acetonitrile	0.05120	0.04741	0.04853	0.05045	0.04127	0.04073					
	0.03856	0.04001					AVRG		0.04477		11.46823
23 Acrylonitrile	0.11250	0.11067	0.12519	0.13154	0.11545	0.11325					
	0.11269	0.11883					AVRG		0.11751		6.22904
24 Methyl tert-butyl ether	0.35444	0.36336	0.36301	0.38185	0.39166	0.35104					
	0.37595	0.39485					AVRG		0.37202		4.45678

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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
25 trans-1,2-Dichloroethene	0.17819	0.19892	0.22084	0.22861	0.24139	0.20897					
	0.20548	0.21732					AVRG		0.21246		9.08861
26 Hexane	+++++	0.03553	0.04725	0.04871	0.05372	0.04811					
	0.04603	0.05111					AVRG		0.04721		12.18357
27 Vinyl acetate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
28 1,1-Dichloroethane	0.38880	0.40411	0.40398	0.42390	0.45101	0.38906					
	0.37624	0.40855					AVRG		0.40571		5.76424
29 tert-Butyl Alcohol	0.01768	0.01960	0.02047	0.02008	0.01947	0.01757					
	0.01819	0.01848					AVRG		0.01894		5.85145
30 2-Butanone	0.25620	0.22085	0.21042	0.20891	0.18065	0.17963					
	0.17458	0.18630					AVRG		0.20219		13.69329
M 31 1,2-Dichloroethene (total)	0.19919	0.22415	0.23827	0.24460	0.25362	0.22462					
	0.21625	0.23082					AVRG		0.22894		7.44326

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
32 cis-1,2-dichloroethene	0.22018	0.24938	0.25570	0.26059	0.26585	0.24027					
	0.22703	0.24433					AVRG		0.24541		6.48262
33 2,2-Dichloropropane	0.17363	0.19405	0.18789	0.20788	0.22641	0.20595					
	0.20739	0.21388					AVRG		0.20213		8.11436
34 Bromochloromethane	0.10432	0.12623	0.13493	0.13521	0.14281	0.12733					
	0.12220	0.13112					AVRG		0.12802		8.99026
35 Chloroform	0.34562	0.36723	0.36059	0.36806	0.39107	0.34946					
	0.33202	0.35927					AVRG		0.35916		4.91207
36 Tetrahydrofuran	0.13659	0.12466	0.12330	0.12756	0.12488	0.10779					
	0.11586	0.12376					AVRG		0.12305		6.83168
37 1,1,1-Trichloroethane	0.25846	0.27346	0.29287	0.32061	0.33969	0.30326					
	0.30911	0.32912					AVRG		0.30332		9.10106
38 1,1-Dichloropropene	0.18220	0.23783	0.24429	0.26024	0.28361	0.25109					
	0.24453	0.26285					AVRG		0.24583		11.97745

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
39 Carbon Tetrachloride	0.20224	0.23173	0.25440	0.26574	0.29998	0.27462						
	0.28331	0.30515					AVRG		0.26465		13.10647	
40 1,2-Dichloroethane	0.34780	0.34274	0.36218	0.35312	0.36471	0.32919						
	0.31443	0.33437					AVRG		0.34357		4.97323	
41 Benzene	0.83507	0.80687	0.81069	0.85370	0.88112	0.79207						
	0.76964	0.81559					AVRG		0.82059		4.29388	
42 Trichloroethene	0.23441	0.22177	0.23792	0.24601	0.33152	0.23852						
	0.23330	0.27055					AVRG		0.25175		13.96876	
43 1,2-Dichloropropane	0.21359	0.22438	0.21404	0.23206	0.24872	0.22680						
	0.21890	0.23184					AVRG		0.22629		5.11325	
44 1,4-Dioxane	+++++	0.00166	0.00229	0.00225	0.00225	0.00210						
	0.00199	0.00226					AVRG		0.00211		10.85063	<-
45 Dibromomethane	0.11939	0.11780	0.12584	0.13136	0.13624	0.12302						
	0.11885	0.12727					AVRG		0.12497		5.21898	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
46 Bromodichloromethane	0.20080	0.21503	0.21277	0.22875	0.24886	0.24033					
	0.23934	0.26309					AVRG		0.23112		8.97174
47 2-Chloroethyl vinyl ether	+++++	0.05157	0.06155	0.07508	0.07147	0.07191					
	0.07216	0.07742					AVRG		0.06874		13.16206
48 cis-1,3-Dichloropropene	+++++	0.25630	0.23793	0.28164	0.30448	0.30248					
	0.29966	0.32693					AVRG		0.28706		10.71783
49 4-Methyl-2-pentanone	0.25035	0.27475	0.33119	0.38690	0.34358	0.35808					
	0.35288	0.37563					AVRG		0.33417		14.34040
50 Toluene	1.59964	1.46215	1.21985	1.20217	1.29409	1.13474					
	1.08613	1.15470					AVRG		1.26918		13.92581
51 trans-1,3-Dichloropropene	+++++	0.25110	0.26689	0.29952	0.34921	0.34420					
	0.34375	0.37803					AVRG		0.31896		14.78906
52 Ethyl Methacrylate	+++++	0.26406	0.28550	0.33359	0.37373	0.36576					
	0.36334	0.38597					AVRG		0.33885		13.85686

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
53 1,1,2-Trichloroethane	0.22493	0.24439	0.24814	0.24977	0.26604	0.23761					
	0.22776	0.24067					AVRG		0.24242		5.39119
54 1,3-Dichloropropane	0.43034	0.43150	0.41021	0.41805	0.44574	0.39932					
	0.38843	0.40566					AVRG		0.41616		4.55352
55 Tetrachloroethene	0.22551	0.23581	0.21160	0.22706	0.25758	0.22760					
	0.22482	0.23998					AVRG		0.23125		5.85166
56 2-Hexanone	+++++	0.23059	0.27937	0.34272	0.30061	0.31049					
	0.30233	0.31773					AVRG		0.29769		11.84547
57 Dibromochloromethane	+++++	+++++	0.21711	0.23260	0.27075	0.26282					
	0.26355	0.29199					AVRG		0.25647		10.57147
58 1,2-Dibromoethane	0.19196	0.23811	0.23635	0.25022	0.27351	0.24591					
	0.23906	0.25403					AVRG		0.24114		9.62955
59 Chlorobenzene	0.82149	0.83229	0.82987	0.84500	0.89851	0.79732					
	0.76245	0.80396					AVRG		0.82386		4.81248

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	Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
		500.0000 Level 7	1000.0000 Level 8									
	60 1,1,1,2-Tetrachloroethane	0.22449	0.25029	0.26327	0.29230	0.31881	0.28947					
		0.29266	0.31029					AVRG		0.28020		11.34152
	61 Ethylbenzene	0.40915	0.36463	0.41778	0.44116	0.48794	0.42324					
		0.42094	0.44292					AVRG		0.42597		8.18262
	62 m + p-Xylene	0.47804	0.49250	0.51946	0.55086	0.59870	0.52982					
		0.51670	0.54019					AVRG		0.52828		7.02063
M	63 Xylenes (total)	0.46346	0.49918	0.51191	0.54550	0.59493	0.52993					
		0.51713	0.53697					AVRG		0.52488		7.25994
	64 Xylene-o	0.43431	0.51254	0.49682	0.53477	0.58739	0.53015					
		0.51800	0.53051					AVRG		0.51806		8.28101
	65 Styrene	0.67320	0.66744	0.76522	0.83169	0.90410	0.84446					
		0.82407	0.86109					AVRG		0.79641		10.91386
	66 Bromoform	+++++	+++++	0.11170	0.12976	0.14395	0.14621					
		0.15387	0.17386					AVRG		0.14322		14.76748

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
67 Isopropylbenzene	1.00410	1.10870	1.19672	1.35622	1.49917	1.34759					
	1.35511	1.41113					AVRG		1.28484		12.93893
68 1,1,2,2-Tetrachloroethane	0.54194	0.53653	0.56138	0.58547	0.47590	0.54058					
	0.54462	0.52120					AVRG		0.53845		5.87520
69 1,4-Dichloro-2-butene	+++++	0.17490	0.19878	0.23927	0.23785	0.22933					
	0.23572	0.26161					AVRG		0.22535		12.86035
70 1,2,3-Trichloropropane	+++++	0.19323	0.20345	0.21159	0.22184	0.18860					
	0.18656	0.19277					AVRG		0.19972		6.56360
71 Bromobenzene	0.65606	0.72885	0.66843	0.68958	0.78207	0.67705					
	0.63871	0.68307					AVRG		0.69048		6.57973
72 n-Propylbenzene	+++++	0.61914	0.63273	0.70676	0.82241	0.71470					
	0.70222	0.76044					AVRG		0.70834		9.89548
73 2-Chlorotoluene	0.61113	0.67211	0.59425	0.66004	0.74454	0.63963					
	0.61439	0.66338					AVRG		0.64993		7.28702

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
74 1,3,5-Trimethylbenzene	1.64479	1.76805	1.86331	2.09907	2.42864	2.11572					
	2.09928	2.28125					AVRG		2.03751		12.89606
75 4-Chlorotoluene	0.58028	0.65190	0.65695	0.69488	0.77166	0.66463					
	0.63734	0.68001					AVRG		0.66721		8.13751
76 tert-Butylbenzene	1.51401	1.72171	1.70851	1.89381	2.18935	1.91364					
	1.90836	2.07620					AVRG		1.86570		11.51528
77 1,2,4-Trimethylbenzene	1.56268	1.78944	1.89116	2.18007	2.46860	2.17334					
	2.13246	2.29968					AVRG		2.06218		14.26684
78 sec-Butylbenzene	1.99024	2.18207	2.28897	2.55689	3.04024	2.69149					
	2.66047	2.89080					AVRG		2.53765		14.16427
79 4-Isopropyltoluene	+++++	1.59406	1.87474	2.18767	2.51330	2.23245					
	2.20576	2.41127					AVRG		2.14561		14.69256
80 1,3-Dichlorobenzene	1.29894	1.31056	1.27895	1.31196	1.45666	1.25651					
	1.20823	1.27823					AVRG		1.30001		5.51868

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
81 1,4-Dichlorobenzene	1.47296	1.41370	1.30161	1.37140	1.47297	1.27907					
	1.22793	1.31338					AVRG		1.35663		6.71080
82 n-Butylbenzene	+++++	1.38361	1.44730	1.73240	1.93601	1.79209					
	1.78167	1.97825					AVRG		1.72162		13.20322
83 1,2-Dichlorobenzene	1.31521	1.30354	1.23674	1.29460	1.34592	1.20177					
	1.14085	1.23896					AVRG		1.25970		5.37515
84 1,2-Dibromo-3-chloropropane	+++++	+++++	0.08750	0.09591	0.10176	0.09966					
	0.11102	0.12340					AVRG		0.10321		12.12804
85 1,2,4-Trichlorobenzene	0.67581	0.67770	0.66905	0.74725	0.72279	0.72191					
	0.70140	0.77163					AVRG		0.71094		5.16730
86 Hexachlorobutadiene	0.31757	0.32016	0.31328	0.36557	0.36600	0.34577					
	0.33549	0.37178					AVRG		0.34195		6.96723
87 Naphthalene	1.63304	1.60862	1.71169	1.87025	1.94957	1.91753					
	1.93387	2.00460					AVRG		1.82865		8.43735

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
88 1,2,3-Trichlorobenzene	0.71376	0.68147	0.62595	0.74007	0.71654	0.69100	0.65740	0.70534	AVRG		0.69144		5.25273	
89 Ethyl Ether	+++++	+++++	0.22155	0.22474	0.23001	0.21922	0.21696	0.21280	AVRG		0.22088		2.73272	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
91 3-Chloropropene	+++++	+++++	0.08646	0.08668	0.09477	0.09398	0.10308	0.10587	AVRG		0.09514		8.49446	
92 Isopropyl Ether	+++++	+++++	0.20024	0.20619	0.21223	0.20401	0.20163	0.18957	AVRG		0.20231		3.72093	
93 2-Chloro-1,3-butadiene	+++++	+++++	0.29245	0.30647	0.32138	0.31741	0.32866	0.33965	AVRG		0.31767		5.22837	
94 Propionitrile	+++++	+++++	0.03686	0.03888	0.03834	0.04131	0.03990	0.04078	AVRG		0.03934		4.19541	

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	500.0000 Level 7	1000.0000 Level 8										
95 Ethyl Acetate	+++++	+++++	0.30869	0.29016	0.29870	0.32011						
	0.29941	0.31397					AVRG		0.30517		3.62946	
96 Methacrylonitrile	+++++	+++++	0.18920	0.18164	0.19183	0.20217						
	0.19242	0.20207					AVRG		0.19322		4.08327	
97 Isobutanol	+++++	+++++	0.01175	0.01325	0.01340	0.01517						
	0.01455	0.01428					AVRG		0.01373		8.79534	
98 Cyclohexane	0.70562	0.63964	0.57394	0.55282	0.59280	0.50876						
	0.49716	0.52899					AVRG		0.57496		12.22996	
99 n-Butanol	+++++	+++++	9131	21890	47441	132566						
	281182	531249					WLINR	0.76673	0.00909		0.99902	<-
100 Methyl Methacrylate	+++++	+++++	0.24891	0.25649	0.26534	0.28802						
	0.28075	0.28985					AVRG		0.27156		6.31200	
101 2-Nitropropane	+++++	+++++	20819	25958	44749	125380						
	244615	540324					QUAD	-0.08610	17.60648	-5.57832	0.99951	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
103 Cyclohexanone	+++++	+++++	0.12091	0.12690	0.14796	0.16543	0.15433	0.15968	AVRG		0.14587		12.38537	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
105 Benzyl Chloride	+++++	+++++	18043	40939	93584	262535	689936	1551473	QUAD	0.08957	1.18311	-0.06397	0.99853	
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

Report Date : 26-Feb-2010 23:03

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
141 1,3,5-Trichlorobenzene	0.78192	0.81465	0.75800	0.83781	0.85223	0.78974	0.78413	0.86672	AVRG		0.81065		4.74676	
143 Methyl Acetate	0.28664	0.33307	0.29506	0.32846	0.28192	0.27225	0.27133	0.30581	AVRG		0.29682		8.03179	
144 Methylcyclohexane	0.35073	0.36003	0.38097	0.40583	0.45075	0.40278	0.40688	0.44455	AVRG		0.40032		8.97510	

Report Date : 26-Feb-2010 23:03

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
146 2-Methylnaphthalene	+++++	+++++	50824	137876	359132	961921	2000788	3720850	WLINR	0.08243	1.21848		0.99814	
147 Ethyl Acrylate	+++++	+++++	0.33186	0.29140	0.31123	0.36049	0.32704	0.34993	AVRG		0.32866		7.66187	
148 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
149 1,2:3,4-Diepoxybutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
150 Bromoacetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
151 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

Report Date : 26-Feb-2010 23:03

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
152 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
153 Vinyl Acetate-86	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	
154 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
155 tert-Butyl Ethyl ether	+++++	+++++	0.73848	0.74709	0.78121	0.78413						
	0.81375	0.79926					AVRG		0.77732		3.76965	
156 tert-Amyl Methyl ether	+++++	+++++	0.52848	0.54911	0.57935	0.59715						
	0.60976	0.61016					AVRG		0.57900		5.82721	
157 1,2,3-Trimethylbenzene	+++++	+++++	1.90657	1.98463	2.19152	2.13000						
	2.18979	2.21636					AVRG		2.10315		6.07228	
$ 4 Dibromofluoromethane	0.21399	0.23601	0.21228	0.20396	0.19331	0.20164						
	0.20074	0.20957					AVRG		0.20894		6.15873	

Report Date : 26-Feb-2010 23:03

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
$ 5 1,2-Dichloroethane-d4	7825	13679	30230	56011	106399	249475					
	487824	1034500					WLINR	-0.01242	0.25956		0.99835
$ 6 Toluene-d8	0.98867	0.87613	0.83024	0.79111	0.79698	0.83844					
	0.82462	0.84844					AVRG		0.84933		7.36059
$ 7 Bromofluorobenzene	9252	15768	36303	64628	128699	330791					
	618569	1265753					WLINR	-0.01034	0.40265		0.99989

Report Date : 26-Feb-2010 23:03

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Last Edit : 26-Feb-2010 23:01 latat

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data review checklist: 8260 A/8260B/624 Initial Calibration

Method (check the applicable box): ☐ 8260A ☐8260B ☐ 624

Analysis Date: 2-26-10 **Run batch ID:**_____

Curve ID:_____ **(curve ID must include instrument designation and date reference)**

Acceptance criteria is found in the applicable laboratory SOP. If item is N/A, mark as such in Notes column

Item for review	Level I Yes	Level I No	Level II Yes	Level II No
Tune:				
BFB passes, all points within 12 hr clock (24 hr for 624)	Yes		Yes	
All calibration points ID'd on Calibration Summary Form	Yes		Yes	
Documentation: Raw data and run logs present for all points	Yes		Yes	
Run log and Raw data clearly indicate method by version	Yes		Yes	
RLs: Minimum of 5 points, lowest standards at or below RL	Yes		Yes	
Linearity: 8260 CCCs ≤ 30% RSD	Yes		Yes	
Linear Regression curve fit for all >15% RSD (35% 624) r2>0.980 (r>0.990)	Yes		Yes	
Plots for all Linear Regressions printed	Yes		Yes	
Response: SPCCs all pass minimum response factors	Yes		Yes	
ICV- Second source standard Analytes 60-140% recovery, problem compounds may be allowed outside these limits, but must be evaluated (acrolein, acrylonitrile, 2-ceve, propionitrile, trans 1,4-dichloro-2-butene) Internal Standards 50-200% of recent curve	Yes		Yes	
Manual integrations: necessary, correct & documented	NA		NA	
Other: Verify Avg RF on Cal Summary matches Avg RF on Con Cal form	NA		NA	

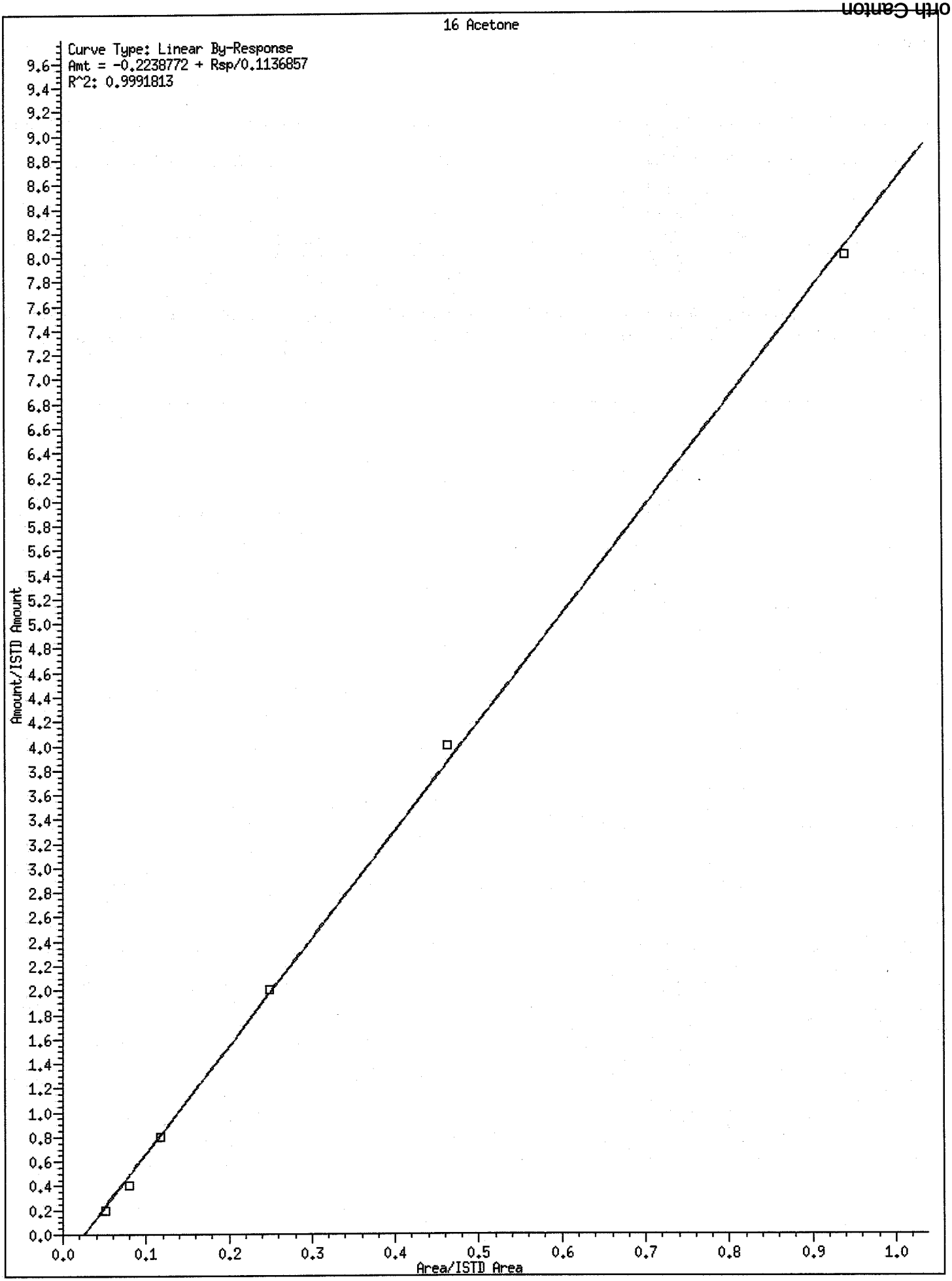
Reviewed by Analyst/ Level I: Todd J. Fotta Date: 3-1-10

Reviewed by Peer/Sup/ Level II: Thomas E. Stoller Date: 3/2/10

By signing in "Reviewed by" above I agree that I have reviewed the data as indicated on this checklist.

*Peer/Sup only: In addition to the items above, all manual integrations in this package have been reviewed and found acceptable.

Reviewed by Peer/Sup:_____ Date:_____


16 Acetone
Curve Type: Linear By-Response
Amt = -0.2238772 + Rsp/0.1136857
R^2: 0.9991813
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0

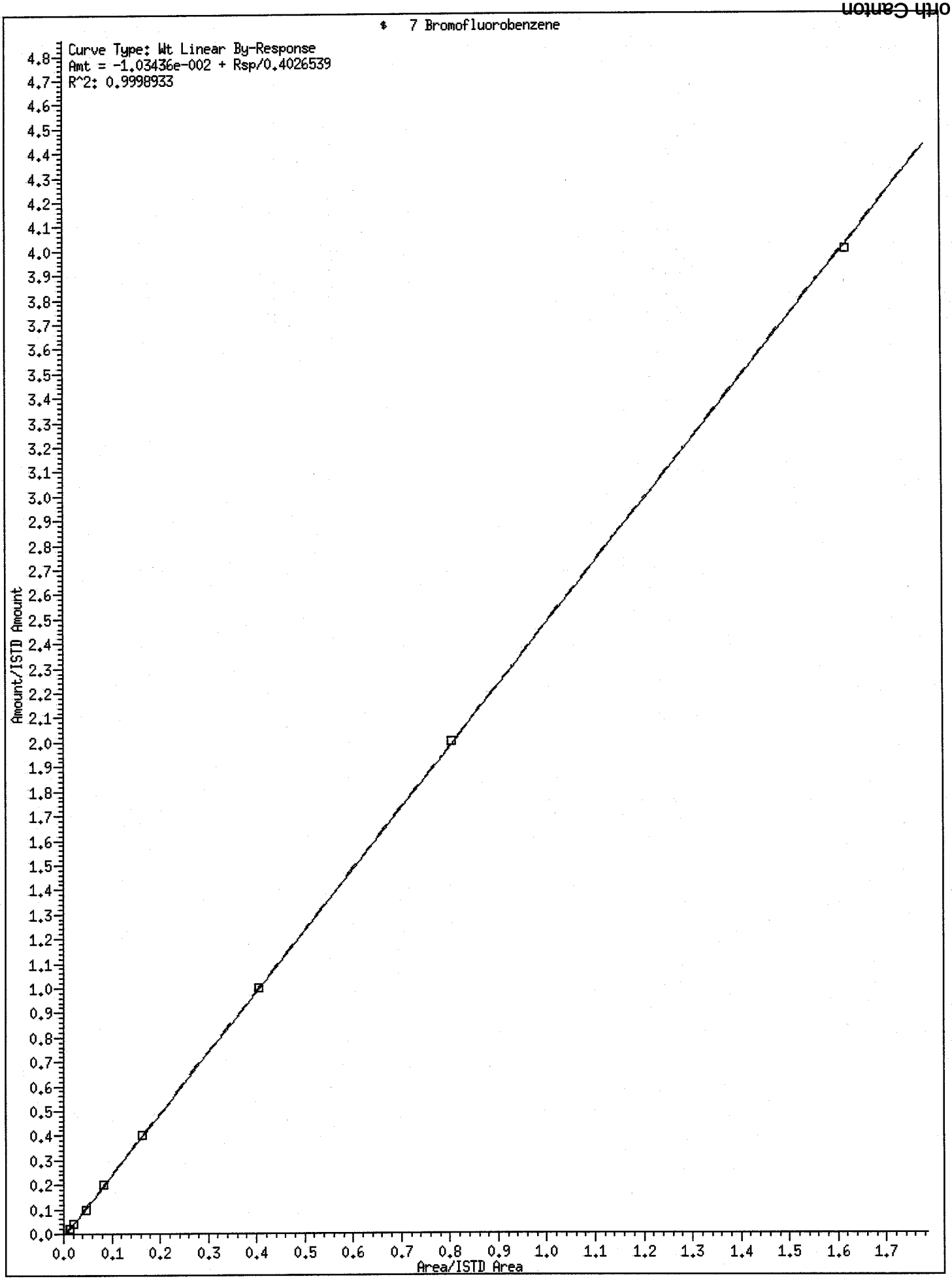
99 n-Butanol
Curve Type: Wt Linear By-Response
Amt = 0.7667339 + Rsp/0.009089261
R^2: 0.9990217
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20 7.60

101 2-Nitropropane
Curve Type: Quadratic By-Response
Amt = -8.61028e-002 + 17.60648*Rsp + -5.57832*Rsp^2
R^2: 0.9995105
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00

105 Benzyl Chloride
Curve Type: Quadratic By-Response
Amt = 0.0895713 + 1.183106*Rsp + -6.397439e-002*Rsp^2
R^2: 0.9985293
Amount/ISTD Amount
Area/ISTD Area
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5

146 2-Methylnaphthalene
Curve Type: Wt Linear By-Response
Amt = 0.0824288 + Rsp/1.218482
R^2: 0.9981417
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8
9.0
9.2
0
1
2
3
4
5
6
7
8
9
10

$ 5 1,2-Dichloroethane-d4
Curve Type: Wt Linear By-Response
Amt = -1.24199e-002 + Rsp/0.2595632
R^2: 0.9983485
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1


$ 7 Bromofluorobenzene
Curve Type: Wt Linear By-Response
Amt = -1.03436e-002 + Rsp/0.4026539
R^2: 0.9998933
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82632.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82632.D
Lab Smp Id: 1000NG-IC
Inj Date : 26-FEB-2010 18:11
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : 1000NG-IC
Misc Info : M00226A-IC,8260SUX8,1-8260.SUB,402279,1,8
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Meth Date : 26-Feb-2010 23:14 a3ux8a.i Quant Type: ISTD
Cal Date : 14-DEC-2009 20:35 Cal File: UX81428.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	5.306	5.306	(1.000)	969007	250.000	
* 2 Chlorobenzene-d5	117	7.848	7.848	(1.000)	780109	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.045	10.045	(1.000)	394784	250.000	
$ 4 Dibromofluoromethane	113	4.782	4.782	(0.901)	812294	1000.00	1003.0(A)
$ 5 1,2-Dichloroethane-d4	65	5.056	5.056	(0.953)	1034500	1000.00	1025.1(A)
$ 6 Toluene-d8	98	6.577	6.577	(1.240)	3288584	1000.00	998.96
$ 7 Bromofluorobenzene	95	8.925	8.925	(1.137)	1265753	1000.00	1004.8(A)
8 Dichlorodifluoromethane	85	1.655	1.655	(0.312)	739311	1000.00	1172.6(A)
9 Chloromethane	50	1.832	1.832	(0.345)	1144124	1000.00	1037.4(A)
10 Vinyl Chloride	62	1.954	1.954	(0.368)	857534	1000.00	1115.3(A)
11 Bromomethane	94	2.258	2.258	(0.426)	187588	1000.00	515.03
12 Chloroethane	64	2.349	2.349	(0.443)	366546	1000.00	896.32
13 Trichlorofluoromethane	101	2.586	2.586	(0.488)	818748	1000.00	1054.5(A)
15 Acrolein	56	2.969	2.969	(0.560)	1928513	10000.0	9542.7
16 Acetone	43	3.103	3.103	(0.585)	914290	2000.00	2018.9(A)
17 1,1-Dichloroethene	96	3.036	3.036	(0.572)	713570	1000.00	1027.7(A)
18 Freon-113	151	3.036	3.036	(0.572)	602822	1000.00	1063.1(A)
19 Iodomethane	142	3.170	3.170	(0.598)	1506160	1000.00	1021.4(A)
20 Carbon Disulfide	76	3.225	3.225	(0.608)	2187126	1000.00	1124.3(A)
21 Methylene Chloride	84	3.438	3.438	(0.648)	874487	1000.00	900.63
22 Acetonitrile	41	3.334	3.334	(0.629)	1550781	10000.0	8936.8
23 Acrylonitrile	53	3.645	3.645	(0.687)	921165	2000.00	2022.4

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82632.D
Report Date: 26-Feb-2010 23:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.645	3.645	(0.687)	1530439	1000.00	1061.4(A)
25 trans-1,2-Dichloroethene	96	3.645	3.645	(0.687)	842325	1000.00	1022.8(A)
26 Hexane	86	3.839	3.839	(0.724)	198113	1000.00	1082.7(A)
28 1,1-Dichloroethane	63	3.979	3.979	(0.750)	1583556	1000.00	1007.0(A)
29 tert-Butyl Alcohol	59	3.535	3.535	(0.666)	1432312	20000.0	19510
30 2-Butanone	43	4.430	4.430	(0.835)	1444180	2000.00	1842.8
32 cis-1,2-dichloroethene	96	4.423	4.423	(0.834)	947031	1000.00	995.58
33 2,2-Dichloropropane	77	4.423	4.423	(0.834)	829013	1000.00	1058.1(A)
34 Bromochloromethane	128	4.612	4.612	(0.869)	508220	1000.00	1024.2(A)
35 Chloroform	83	4.661	4.661	(0.878)	1392537	1000.00	1000.3(A)
36 Tetrahydrofuran	42	4.642	4.642	(0.875)	479700	1000.00	1005.8(A)
37 1,1,1-Trichloroethane	97	4.807	4.807	(0.906)	1275674	1000.00	1085.0(A)
38 1,1-Dichloropropene	75	4.928	4.928	(0.929)	1018814	1000.00	1069.2(A)
39 Carbon Tetrachloride	117	4.934	4.934	(0.930)	1182780	1000.00	1153.0(A)
40 1,2-Dichloroethane	62	5.111	5.111	(0.963)	1296020	1000.00	973.22
41 Benzene	78	5.099	5.099	(0.961)	3161265	1000.00	993.91
42 Trichloroethene	130	5.591	5.591	(1.054)	1048668	1000.00	1074.7(A)
43 1,2-Dichloropropane	63	5.780	5.780	(1.089)	898631	1000.00	1024.5(A)
44 1,4-Dioxane	88	5.883	5.883	(1.109)	437211	50000.0	53370(A)
45 Dibromomethane	93	5.883	5.883	(1.109)	493295	1000.00	1018.4(A)
46 Bromodichloromethane	83	5.993	5.993	(1.130)	1019749	1000.00	1138.3(A)
47 2-Chloroethyl vinyl ether	63	6.212	6.212	(1.171)	600202	2000.00	2252.7(A)
48 cis-1,3-Dichloropropene	75	6.352	6.352	(1.197)	1267198	1000.00	1138.9(A)
49 4-Methyl-2-pentanone	43	6.467	6.467	(1.219)	2911928	2000.00	2248.1(A)
50 Toluene	91	6.638	6.638	(0.846)	3603181	1000.00	909.80
51 trans-1,3-Dichloropropene	75	6.814	6.814	(0.868)	1179629	1000.00	1185.2(A)
52 Ethyl Methacrylate	69	6.857	6.857	(0.874)	1204406	1000.00	1139.1(A)
53 1,1,2-Trichloroethane	97	6.978	6.978	(0.889)	751005	1000.00	992.81
54 1,3-Dichloropropane	76	7.131	7.131	(0.909)	1265823	1000.00	974.77
55 Tetrachloroethene	164	7.106	7.106	(0.905)	748838	1000.00	1037.8(A)
56 2-Hexanone	43	7.173	7.173	(0.914)	1982897	2000.00	2134.6(A)
57 Dibromochloromethane	129	7.331	7.331	(0.934)	911141	1000.00	1138.5(A)
58 1,2-Dibromoethane	107	7.447	7.447	(0.949)	792676	1000.00	1053.4(A)
59 Chlorobenzene	112	7.873	7.873	(1.003)	2508713	1000.00	975.85
60 1,1,1,2-Tetrachloroethane	131	7.940	7.940	(1.012)	968227	1000.00	1107.4(A)
61 Ethylbenzene	106	7.952	7.952	(1.013)	1382100	1000.00	1039.8(A)
62 m + p-Xylene	106	8.055	8.055	(1.026)	3371287	2000.00	2045.1(A)
64 Xylene-o	106	8.432	8.432	(1.074)	1655408	1000.00	1024.0(A)
65 Styrene	104	8.445	8.445	(1.076)	2686961	1000.00	1081.2(A)
66 Bromoform	173	8.639	8.639	(1.101)	542525	1000.00	1213.9(A)
67 Isopropylbenzene	105	8.767	8.767	(1.117)	4403354	1000.00	1098.3(A)
68 1,1,2,2-Tetrachloroethane	83	9.053	9.053	(0.901)	823043	1000.00	967.96
69 1,4-Dichloro-2-butene	53	9.108	9.108	(0.907)	413125	1000.00	1160.9(A)
70 1,2,3-Trichloropropane	110	9.108	9.108	(0.907)	304415	1000.00	965.22
71 Bromobenzene	156	9.083	9.083	(0.904)	1078653	1000.00	989.27
72 n-Propylbenzene	120	9.156	9.156	(0.912)	1200838	1000.00	1073.5(A)
73 2-Chlorotoluene	126	9.254	9.254	(0.921)	1047572	1000.00	1020.7(A)
74 1,3,5-Trimethylbenzene	105	9.321	9.321	(0.928)	3602405	1000.00	1119.6(A)
75 4-Chlorotoluene	126	9.357	9.357	(0.932)	1073829	1000.00	1019.2(A)
76 tert-Butylbenzene	119	9.643	9.643	(0.960)	3278602	1000.00	1112.8(A)
77 1,2,4-Trimethylbenzene	105	9.686	9.686	(0.964)	3631500	1000.00	1115.2(A)
78 sec-Butylbenzene	105	9.850	9.850	(0.981)	4564968	1000.00	1139.2(A)
79 4-Isopropyltoluene	119	9.990	9.990	(0.995)	3807731	1000.00	1123.8(A)
80 1,3-Dichlorobenzene	146	9.978	9.978	(0.993)	2018502	1000.00	983.25

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82632.D
Report Date: 26-Feb-2010 23:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	10.063	10.063	(1.002)	2074013	1000.00	968.12
82	n-Butylbenzene	91	10.391	10.391	(1.035)	3123930	1000.00	1149.1(A)
83	1,2-Dichlorobenzene	146	10.434	10.434	(1.039)	1956490	1000.00	983.54
84	1,2-Dibromo-3-chloropropane	157	11.213	11.213	(1.116)	194872	1000.00	1195.7(A)
85	1,2,4-Trichlorobenzene	180	12.022	12.022	(1.197)	1218505	1000.00	1085.4(A)
86	Hexachlorobutadiene	225	12.180	12.180	(1.213)	587091	1000.00	1087.2(A)
87	Naphthalene	128	12.289	12.289	(1.223)	3165529	1000.00	1096.2(A)
88	1,2,3-Trichlorobenzene	180	12.545	12.545	(1.249)	1113828	1000.00	1020.1(A)
98	Cyclohexane	56	4.849	4.849	(0.914)	2050384	1000.00	920.04
143	Methyl Acetate	43	3.353	3.353	(0.632)	2370631	2000.00	2060.6(A)
144	Methylcyclohexane	83	5.744	5.744	(1.083)	1723096	1000.00	1110.5(A)
141	1,3,5-Trichlorobenzene	180	11.407	11.407	(1.136)	1368664	1000.00	1069.2(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82632.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82632.D
Lab Smp Id: 1000NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279

Calibration Date: 26-FEB-2010
Calibration Time: 18:53

Level: LOW
Sample Type: SOIL

Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Misc Info: M00226A-IC,8260SUX8,1-8260.SUB,402279,1,8

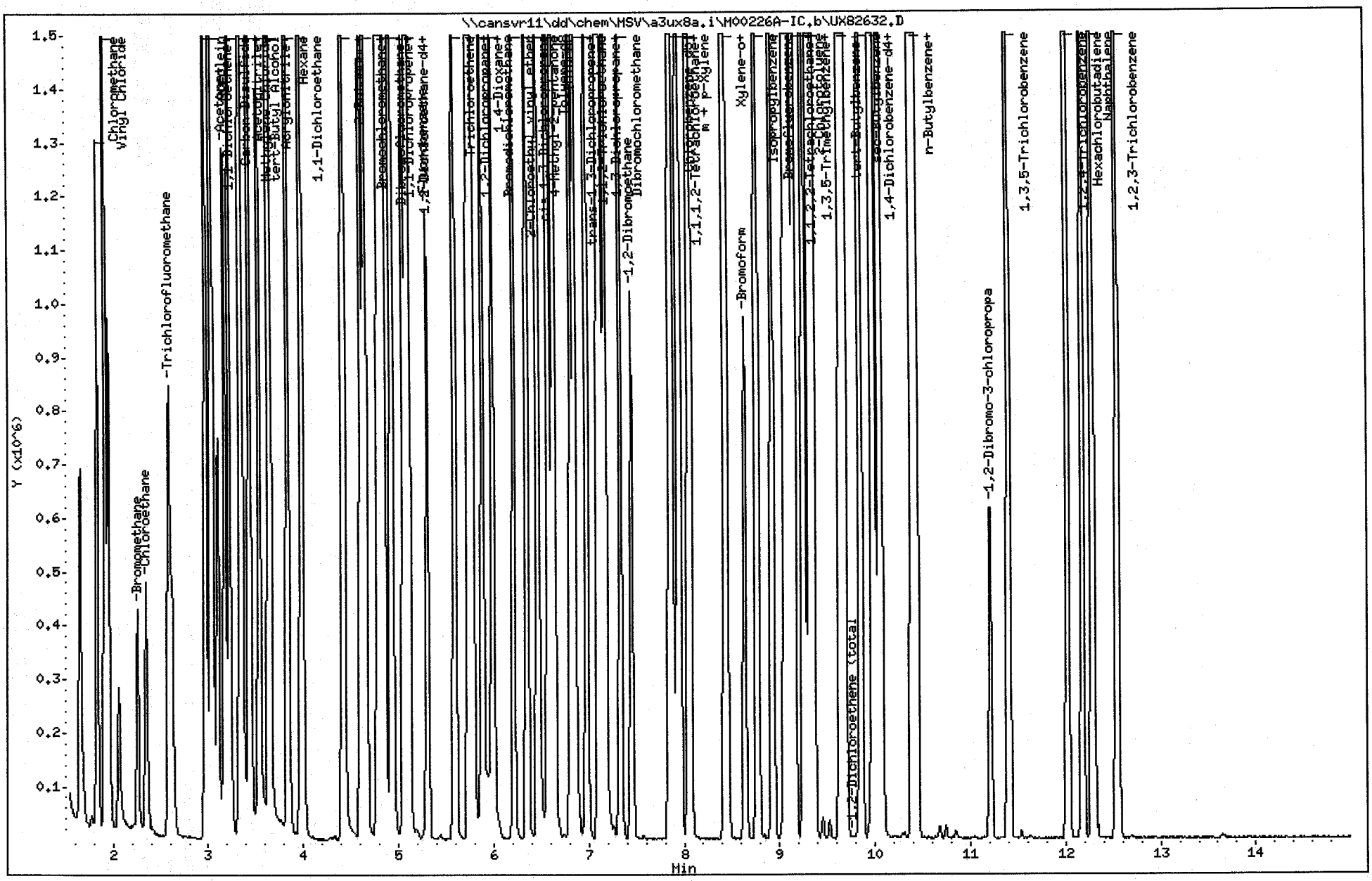
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1019892	509946	2039784	969007	-4.99
2 Chlorobenzene-d5	818266	409133	1636532	780109	-4.66
3 1,4-Dichlorobenze	423007	211504	846014	394784	-6.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.04
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	0.03
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.05	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82632.D
Date : 26-FEB-2010 18:11
Client ID:
Sample Info: 1000NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82633.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82633.D
Lab Smp Id: 500NG-IC
Inj Date : 26-FEB-2010 18:32
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : 500NG-IC
Misc Info : M00226A-IC,8260SUX8,1-8260.SUB,402279,1,7
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Meth Date : 26-Feb-2010 23:14 a3ux8a.i Quant Type: ISTD
Cal Date : 14-DEC-2009 19:51 Cal File: UX81426.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	5.304	5.304	(1.000)	964178	250.000	
* 2	Chlorobenzene-d5	117	7.847	7.847	(1.000)	769465	250.000	
* 3	1,4-Dichlorobenzene-d4	152	10.043	10.043	(1.000)	403466	250.000	
$ 4	Dibromofluoromethane	113	4.787	4.787	(0.903)	387106	500.000	480.39
$ 5	1,2-Dichloroethane-d4	65	5.054	5.054	(0.953)	487824	500.000	484.20
$ 6	Toluene-d8	98	6.581	6.581	(1.241)	1590170	500.000	485.46
$ 7	Bromofluorobenzene	95	8.923	8.923	(1.137)	618569	500.000	496.54
8	Dichlorodifluoromethane	85	1.654	1.654	(0.312)	335171	500.000	534.25
9	Chloromethane	50	1.830	1.830	(0.345)	535046	500.000	487.56
10	Vinyl Chloride	62	1.952	1.952	(0.368)	390012	500.000	509.77
11	Bromomethane	94	2.268	2.268	(0.428)	133464	500.000	368.26
12	Chloroethane	64	2.365	2.365	(0.446)	201598	500.000	495.44
13	Trichlorofluoromethane	101	2.596	2.596	(0.490)	388958	500.000	503.47
15	Acrolein	56	2.968	2.968	(0.560)	990161	5000.00	4924.0
16	Acetone	43	3.101	3.101	(0.585)	446182	1000.00	961.66
17	1,1-Dichloroethene	96	3.041	3.041	(0.573)	331650	500.000	480.06
18	Freon-113	151	3.047	3.047	(0.574)	279430	500.000	495.25
19	Iodomethane	142	3.174	3.174	(0.599)	716003	500.000	487.98
20	Carbon Disulfide	76	3.229	3.229	(0.609)	1004722	500.000	519.09
21	Methylene Chloride	84	3.436	3.436	(0.648)	416403	500.000	431.00
22	Acetonitrile	41	3.333	3.333	(0.628)	743531	5000.00	4306.2
23	Acrylonitrile	53	3.643	3.643	(0.687)	434628	1000.00	958.99

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82633.D
Report Date: 26-Feb-2010 23:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24	Methyl tert-butyl ether	73	3.643	3.643	(0.687)	724958	500.000	505.28
25	trans-1,2-Dichloroethene	96	3.649	3.649	(0.688)	396244	500.000	483.57
26	Hexane	86	3.844	3.844	(0.725)	88770	500.000	487.56
28	1,1-Dichloroethane	63	3.977	3.977	(0.750)	725516	500.000	463.68
29	tert-Butyl Alcohol	59	3.527	3.527	(0.665)	701385	10000.0	9601.4
30	2-Butanone	43	4.428	4.428	(0.835)	673315	1000.00	863.45
32	cis-1,2-dichloroethene	96	4.422	4.422	(0.834)	437788	500.000	462.54
33	2,2-Dichloropropane	77	4.422	4.422	(0.834)	399917	500.000	512.99
34	Bromochloromethane	128	4.610	4.610	(0.869)	235637	500.000	477.26
35	Chloroform	83	4.659	4.659	(0.878)	640245	500.000	462.21
36	Tetrahydrofuran	42	4.647	4.647	(0.876)	223422	500.000	470.78
37	1,1,1-Trichloroethane	97	4.811	4.811	(0.907)	596081	500.000	509.55
38	1,1-Dichloropropene	75	4.926	4.926	(0.929)	471543	500.000	497.36
39	Carbon Tetrachloride	117	4.939	4.939	(0.931)	546318	500.000	535.26
40	1,2-Dichloroethane	62	5.115	5.115	(0.964)	606339	500.000	457.60
41	Benzene	78	5.097	5.097	(0.961)	1484131	500.000	468.95
42	Trichloroethene	130	5.590	5.590	(1.054)	449891	500.000	463.36
43	1,2-Dichloropropane	63	5.784	5.784	(1.091)	422110	500.000	483.66
44	1,4-Dioxane	88	5.882	5.882	(1.109)	191556	25000.0	23500
45	Dibromomethane	93	5.882	5.882	(1.109)	229190	500.000	475.52
46	Bromodichloromethane	83	5.991	5.991	(1.130)	461527	500.000	517.77
47	2-Chloroethyl vinyl ether	63	6.216	6.216	(1.172)	278308	1000.00	1049.8
48	cis-1,3-Dichloropropene	75	6.350	6.350	(1.197)	577857	500.000	521.95
49	4-Methyl-2-pentanone	43	6.466	6.466	(1.219)	1360961	1000.00	1056.0
50	Toluene	91	6.636	6.636	(0.846)	1671485	500.000	427.89
51	trans-1,3-Dichloropropene	75	6.812	6.812	(0.868)	529011	500.000	538.86
52	Ethyl Methacrylate	69	6.855	6.855	(0.874)	559155	500.000	536.13
53	1,1,2-Trichloroethane	97	6.977	6.977	(0.889)	350510	500.000	469.77
54	1,3-Dichloropropane	76	7.129	7.129	(0.909)	597759	500.000	466.68
55	Tetrachloroethene	164	7.104	7.104	(0.905)	345984	500.000	486.11
56	2-Hexanone	43	7.171	7.171	(0.914)	930527	1000.00	1015.6
57	Dibromochloromethane	129	7.335	7.335	(0.935)	405578	500.000	513.80
58	1,2-Dibromoethane	107	7.451	7.451	(0.950)	367903	500.000	495.69
59	Chlorobenzene	112	7.871	7.871	(1.003)	1173359	500.000	462.73
60	1,1,1,2-Tetrachloroethane	131	7.938	7.938	(1.012)	450382	500.000	522.24
61	Ethylbenzene	106	7.956	7.956	(1.014)	647792	500.000	494.09
62	m + p-Xylene	106	8.059	8.059	(1.027)	1590334	1000.00	978.07
64	Xylene-o	106	8.431	8.431	(1.074)	797162	500.000	499.94
65	Styrene	104	8.443	8.443	(1.076)	1268179	500.000	517.36
66	Bromoform	173	8.637	8.637	(1.101)	236790	500.000	537.15
67	Isopropylbenzene	105	8.765	8.765	(1.117)	2085423	500.000	527.34
68	1,1,2,2-Tetrachloroethane	83	9.057	9.057	(0.902)	439469	500.000	505.72
69	1,4-Dichloro-2-butene	53	9.106	9.106	(0.907)	190206	500.000	523.00
70	1,2,3-Trichloropropane	110	9.106	9.106	(0.907)	150542	500.000	467.06
71	Bromobenzene	156	9.081	9.081	(0.904)	515395	500.000	462.51
72	n-Propylbenzene	120	9.154	9.154	(0.912)	566644	500.000	495.68
73	2-Chlorotoluene	126	9.258	9.258	(0.922)	495774	500.000	472.66
74	1,3,5-Trimethylbenzene	105	9.319	9.319	(0.928)	1693976	500.000	515.16
75	4-Chlorotoluene	126	9.355	9.355	(0.932)	514291	500.000	477.62
76	tert-Butylbenzene	119	9.641	9.641	(0.960)	1539919	500.000	511.43
77	1,2,4-Trimethylbenzene	105	9.684	9.684	(0.964)	1720750	500.000	517.04
78	sec-Butylbenzene	105	9.854	9.854	(0.981)	2146821	500.000	524.20
79	4-Isopropyltoluene	119	9.988	9.988	(0.995)	1779902	500.000	514.02
80	1,3-Dichlorobenzene	146	9.976	9.976	(0.993)	974958	500.000	464.70

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82633.D
Report Date: 26-Feb-2010 23:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	10.067	10.067	(1.002)	990860	500.000	452.57
82	n-Butylbenzene	91	10.389	10.389	(1.035)	1437686	500.000	517.44
83	1,2-Dichlorobenzene	146	10.438	10.438	(1.039)	920587	500.000	452.82
84	1,2-Dibromo-3-chloropropane	157	11.211	11.211	(1.116)	89582	500.000	537.81
85	1,2,4-Trichlorobenzene	180	12.026	12.026	(1.197)	565986	500.000	493.29
86	Hexachlorobutadiene	225	12.184	12.184	(1.213)	270715	500.000	490.54
87	Naphthalene	128	12.287	12.287	(1.224)	1560504	500.000	528.77
88	1,2,3-Trichlorobenzene	180	12.549	12.549	(1.250)	530474	500.000	475.38
98	Cyclohexane	56	4.847	4.847	(0.914)	958699	500.000	432.34
143	Methyl Acetate	43	3.351	3.351	(0.632)	1046441	1000.00	914.12
144	Methylcyclohexane	83	5.742	5.742	(1.083)	784604	500.000	508.20
141	1,3,5-Trichlorobenzene	180	11.405	11.405	(1.136)	632736	500.000	483.64

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82633.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

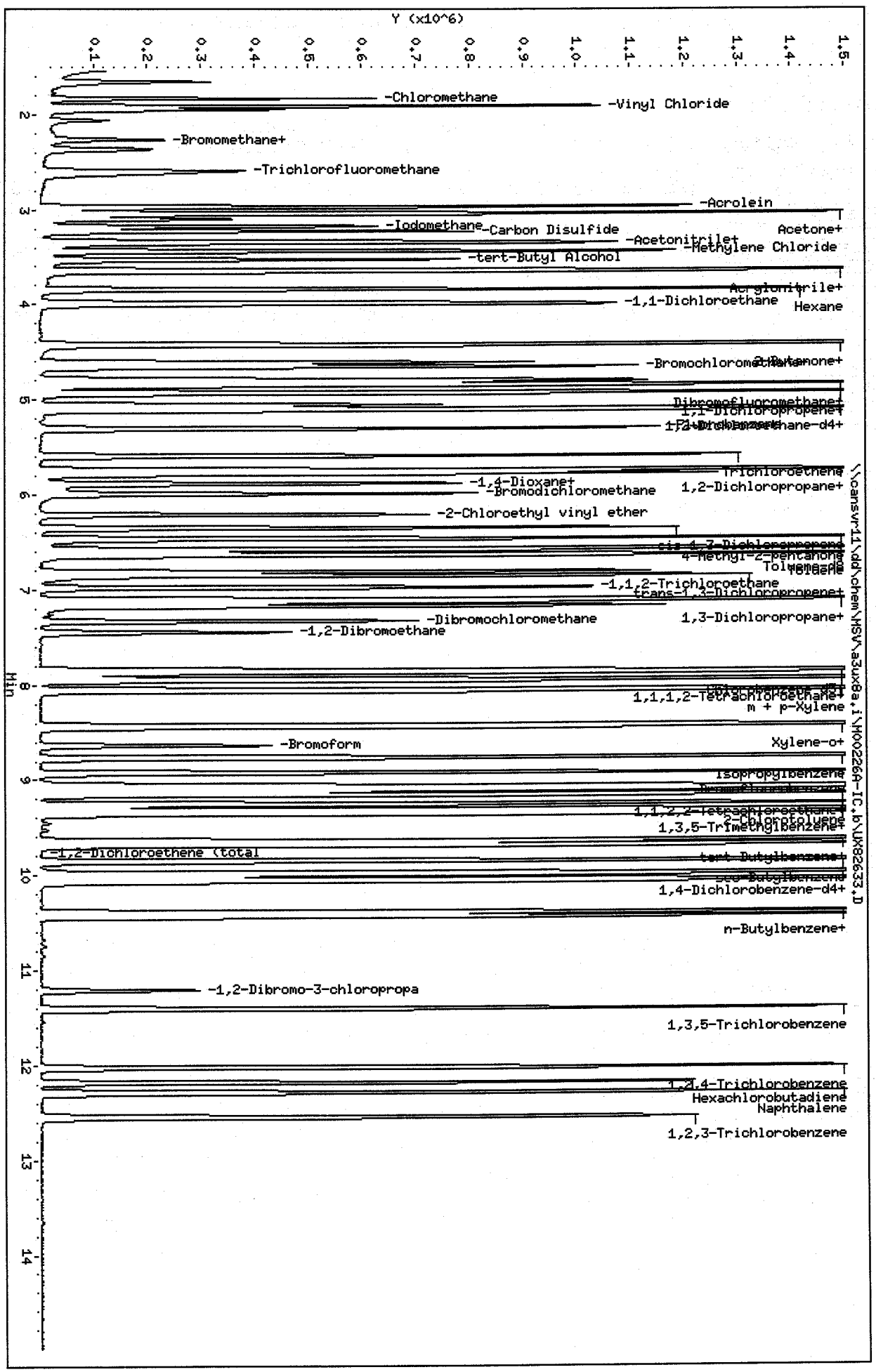
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82633.D
Lab Smp Id: 500NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Calibration Date: 26-FEB-2010
Calibration Time: 18:53
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Misc Info: M00226A-IC,8260SUX8,1-8260.SUB,402279,1,7

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1019892	509946	2039784	964178	-5.46
2 Chlorobenzene-d5	818266	409133	1636532	769465	-5.96
3 1,4-Dichlorobenze	423007	211504	846014	403466	-4.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.30	0.00
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82633.D
Date : 26-FEB-2010 18:32
Client ID:
Sample Info: 500NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18

\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82633.D

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82634.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82634.D
Lab Smp Id: 250NG-IC
Inj Date : 26-FEB-2010 18:53
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : 250NG-IC
Misc Info : M00226A-IC,8260SUX8,1-8260.SUB,402279,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Meth Date : 26-Feb-2010 23:14 a3ux8a.i Quant Type: ISTD
Cal Date : 14-DEC-2009 20:13 Cal File: UX81427.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	5.303	5.303	(1.000)	1019892	250.000	
* 2 Chlorobenzene-d5	117	7.846	7.846	(1.000)	818266	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.042	(1.000)	423007	250.000	
$ 4 Dibromofluoromethane	113	4.786	4.786	(0.903)	205652	250.000	241.27
$ 5 1,2-Dichloroethane-d4	65	5.054	5.054	(0.953)	249475	250.000	232.49
$ 6 Toluene-d8	98	6.581	6.581	(1.241)	855115	250.000	246.79
$ 7 Bromofluorobenzene	95	8.923	8.923	(1.137)	330791	250.000	248.41
8 Dichlorodifluoromethane	85	1.659	1.659	(0.313)	177141	250.000	266.93
9 Chloromethane	50	1.830	1.830	(0.345)	289740	250.000	249.60
10 Vinyl Chloride	62	1.951	1.951	(0.368)	209105	250.000	258.38
11 Bromomethane	94	2.274	2.274	(0.429)	93449	250.000	243.76
12 Chloroethane	64	2.371	2.371	(0.447)	115503	250.000	268.35
13 Trichlorofluoromethane	101	2.596	2.596	(0.490)	218204	250.000	267.02
15 Acrolein	56	2.973	2.973	(0.561)	530338	2500.00	2493.3
16 Acetone	43	3.101	3.101	(0.585)	253501	500.000	490.62
17 1,1-Dichloroethene	96	3.040	3.040	(0.573)	175118	250.000	239.64
18 Freon-113	151	3.040	3.040	(0.573)	143038	250.000	239.66
19 Iodomethane	142	3.180	3.180	(0.600)	381733	250.000	245.95
20 Carbon Disulfide	76	3.229	3.229	(0.609)	515879	250.000	251.97
21 Methylene Chloride	84	3.442	3.442	(0.649)	228449	250.000	223.54
22 Acetonitrile	41	3.332	3.332	(0.628)	415442	2500.00	2274.6
23 Acrylonitrile	53	3.643	3.643	(0.687)	230996	500.000	481.84

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82634.D
Report Date: 26-Feb-2010 23:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.643	3.643	(0.687)	358020	250.000	235.90
25 trans-1,2-Dichloroethene	96	3.649	3.649	(0.688)	213129	250.000	245.89
26 Hexane	86	3.843	3.843	(0.725)	49067	250.000	254.78
28 1,1-Dichloroethane	63	3.977	3.977	(0.750)	396797	250.000	239.74
29 tert-Butyl Alcohol	59	3.521	3.521	(0.664)	358377	5000.00	4637.9
30 2-Butanone	43	4.427	4.427	(0.835)	366401	500.000	444.20
32 cis-1,2-dichloroethene	96	4.421	4.421	(0.834)	245045	250.000	244.75
33 2,2-Dichloropropane	77	4.421	4.421	(0.834)	210049	250.000	254.72
34 Bromochloromethane	128	4.610	4.610	(0.869)	129866	250.000	248.66
35 Chloroform	83	4.659	4.659	(0.878)	356413	250.000	243.25
36 Tetrahydrofuran	42	4.646	4.646	(0.876)	109938	250.000	219.00
37 1,1,1-Trichloroethane	97	4.811	4.811	(0.907)	309290	250.000	249.95
38 1,1-Dichloropropene	75	4.932	4.932	(0.930)	256080	250.000	255.34
39 Carbon Tetrachloride	117	4.938	4.938	(0.931)	280084	250.000	259.42
40 1,2-Dichloroethane	62	5.115	5.115	(0.964)	335738	250.000	239.54
41 Benzene	78	5.097	5.097	(0.961)	807828	250.000	241.31
42 Trichloroethene	130	5.589	5.589	(1.054)	243262	250.000	236.86
43 1,2-Dichloropropane	63	5.784	5.784	(1.091)	231311	250.000	250.56
44 1,4-Dioxane	88	5.881	5.881	(1.109)	107021	12500.0	12412
45 Dibromomethane	93	5.881	5.881	(1.109)	125468	250.000	246.10
46 Bromodichloromethane	83	5.991	5.991	(1.130)	245113	250.000	259.96
47 2-Chloroethyl vinyl ether	63	6.210	6.210	(1.171)	146678	500.000	523.06
48 cis-1,3-Dichloropropene	75	6.356	6.356	(1.198)	308499	250.000	263.43
49 4-Methyl-2-pentanone	43	6.465	6.465	(1.219)	730412	500.000	535.78
50 Toluene	91	6.636	6.636	(0.846)	928518	250.000	223.52
51 trans-1,3-Dichloropropene	75	6.812	6.812	(0.868)	281651	250.000	269.79
52 Ethyl Methacrylate	69	6.855	6.855	(0.874)	299290	250.000	269.85
53 1,1,2-Trichloroethane	97	6.976	6.976	(0.889)	194427	250.000	245.04
54 1,3-Dichloropropane	76	7.128	7.128	(0.909)	326751	250.000	239.89
55 Tetrachloroethene	164	7.104	7.104	(0.905)	186239	250.000	246.06
56 2-Hexanone	43	7.171	7.171	(0.914)	508126	500.000	521.50
57 Dibromochloromethane	129	7.335	7.335	(0.935)	215059	250.000	256.19
58 1,2-Dibromoethane	107	7.451	7.451	(0.950)	201222	250.000	254.94
59 Chlorobenzene	112	7.871	7.871	(1.003)	652416	250.000	241.94
60 1,1,1,2-Tetrachloroethane	131	7.938	7.938	(1.012)	236863	250.000	258.27
61 Ethylbenzene	106	7.956	7.956	(1.014)	346325	250.000	248.40
62 m + p-Xylene	106	8.059	8.059	(1.027)	867073	500.000	501.46
64 Xylene-o	106	8.430	8.430	(1.074)	433806	250.000	255.84
65 Styrene	104	8.442	8.442	(1.076)	690989	250.000	265.08
66 Bromoform	173	8.637	8.637	(1.101)	119636	250.000	255.21
67 Isopropylbenzene	105	8.765	8.765	(1.117)	1102683	250.000	262.21
68 1,1,2,2-Tetrachloroethane	83	9.051	9.051	(0.901)	228670	250.000	250.99
69 1,4-Dichloro-2-butene	53	9.112	9.112	(0.907)	97007	250.000	254.41
70 1,2,3-Trichloropropane	110	9.106	9.106	(0.907)	79779	250.000	236.08
71 Bromobenzene	156	9.081	9.081	(0.904)	286395	250.000	245.14
72 n-Propylbenzene	120	9.154	9.154	(0.912)	302325	250.000	252.24
73 2-Chlorotoluene	126	9.258	9.258	(0.922)	270567	250.000	246.04
74 1,3,5-Trimethylbenzene	105	9.318	9.318	(0.928)	894966	250.000	259.60
75 4-Chlorotoluene	126	9.355	9.355	(0.932)	281142	250.000	249.03
76 tert-Butylbenzene	119	9.641	9.641	(0.960)	809485	250.000	256.42
77 1,2,4-Trimethylbenzene	105	9.683	9.683	(0.964)	919339	250.000	263.48
78 sec-Butylbenzene	105	9.854	9.854	(0.981)	1138519	250.000	265.16
79 4-Isopropyltoluene	119	9.988	9.988	(0.995)	944344	250.000	260.12
80 1,3-Dichlorobenzene	146	9.975	9.975	(0.993)	531513	250.000	241.64

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82634.D
Report Date: 26-Feb-2010 23:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	10.067	10.067	(1.002)	541055	250.000	235.71
82	n-Butylbenzene	91	10.389	10.389	(1.035)	758067	250.000	260.23
83	1,2-Dichlorobenzene	146	10.438	10.438	(1.039)	508359	250.000	238.50
84	1,2-Dibromo-3-chloropropane	157	11.210	11.210	(1.116)	42158	250.000	241.41
85	1,2,4-Trichlorobenzene	180	12.026	12.026	(1.197)	305371	250.000	253.85
86	Hexachlorobutadiene	225	12.184	12.184	(1.213)	146262	250.000	252.79
87	Naphthalene	128	12.287	12.287	(1.224)	811128	250.000	262.15
88	1,2,3-Trichlorobenzene	180	12.549	12.549	(1.250)	292296	250.000	249.84
98	Cyclohexane	56	4.847	4.847	(0.914)	518880	250.000	221.21
143	Methyl Acetate	43	3.351	3.351	(0.632)	555334	500.000	458.61
144	Methylcyclohexane	83	5.741	5.741	(1.083)	410795	250.000	251.54
141	1,3,5-Trichlorobenzene	180	11.405	11.405	(1.136)	334066	250.000	243.55

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82634.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

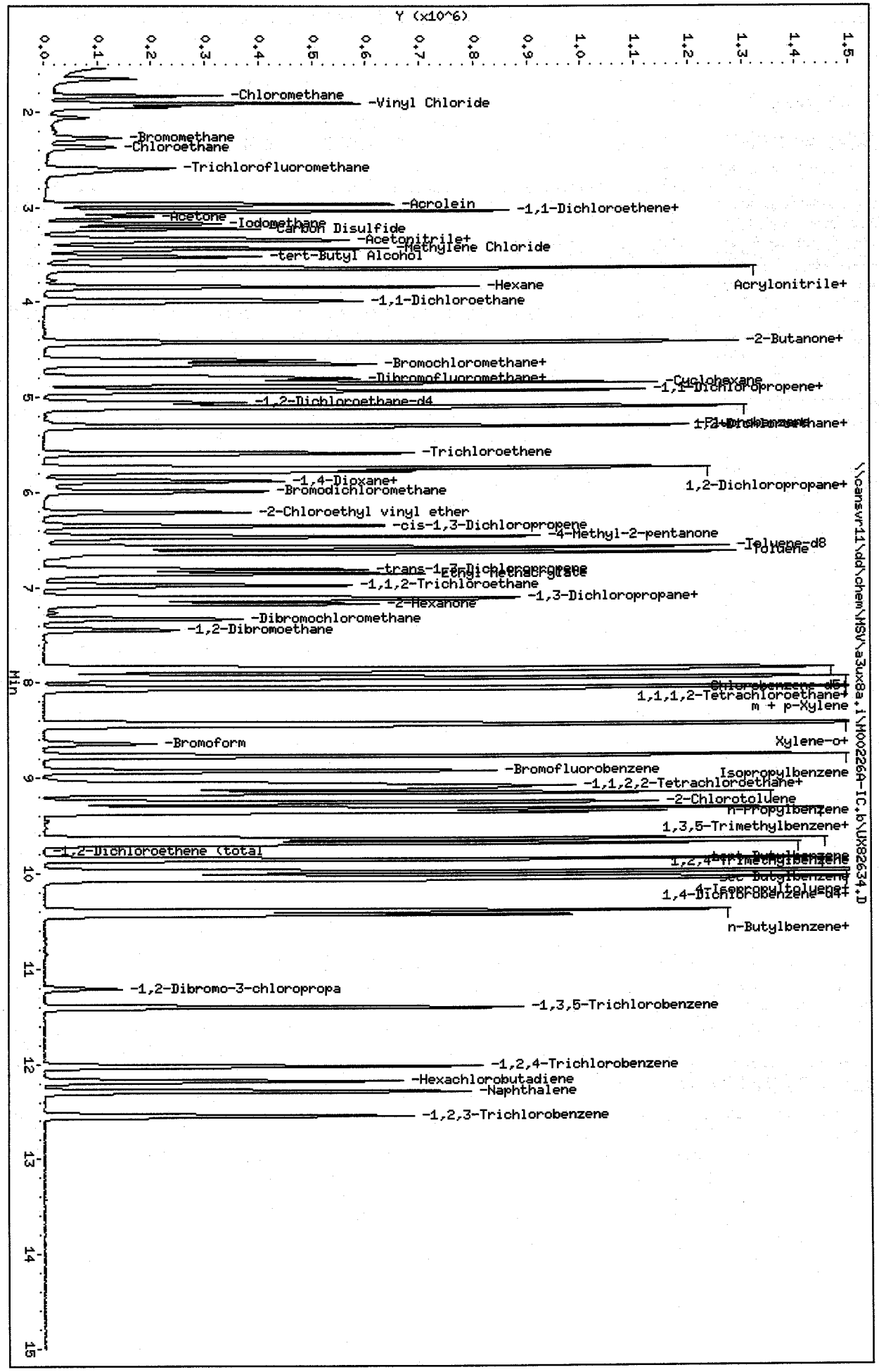
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82634.D
Lab Smp Id: 250NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Calibration Date: 26-FEB-2010
Calibration Time: 18:53
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Misc Info: M00226A-IC,8260SUX8,1-8260.SUB,402279,1,6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1019892	509946	2039784	1019892	0.00
2 Chlorobenzene-d5	818266	409133	1636532	818266	0.00
3 1,4-Dichlorobenze	423007	211504	846014	423007	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.30	0.00
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M002260-IC.b\UX82634.D
Date : 26-FEB-2010 18:53
Client ID:
Sample Info: 250NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82635.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82635.D
Lab Smp Id: 100NG-IC
Inj Date : 26-FEB-2010 19:15
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : 100NG-IC
Misc Info : M00226A-IC,8260SUX8,1-8260.SUB,402279,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Meth Date : 26-Feb-2010 23:14 a3ux8a.i Quant Type: ISTD
Cal Date : 14-DEC-2009 20:35 Cal File: UX81428.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	5.308	5.308	(1.000)	997014	250.000	
* 2 Chlorobenzene-d5	117	7.845	7.845	(1.000)	785191	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.041	10.041	(1.000)	389139	250.000	
$ 4 Dibromofluoromethane	113	4.785	4.785	(0.901)	77095	100.000	92.522
$ 5 1,2-Dichloroethane-d4	65	5.053	5.053	(0.952)	106399	100.000	99.681
$ 6 Toluene-d8	98	6.580	6.580	(1.240)	317839	100.000	93.836
$ 7 Bromofluorobenzene	95	8.928	8.928	(1.138)	128699	100.000	99.181
8 Dichlorodifluoromethane	85	1.658	1.658	(0.312)	67994	100.000	104.81
9 Chloromethane	50	1.835	1.835	(0.346)	115031	100.000	101.37
10 Vinyl Chloride	62	1.950	1.950	(0.367)	82974	100.000	104.88
11 Bromomethane	94	2.279	2.279	(0.429)	39452	100.000	105.27
12 Chloroethane	64	2.376	2.376	(0.448)	47085	100.000	111.90
13 Trichlorofluoromethane	101	2.601	2.601	(0.490)	86840	100.000	108.70
15 Acrolein	56	2.972	2.972	(0.560)	180122	1000.00	866.24
16 Acetone	43	3.100	3.100	(0.584)	117681	200.000	203.59
17 1,1-Dichloroethene	96	3.045	3.045	(0.574)	78928	100.000	110.48
18 Freon-113	151	3.045	3.045	(0.574)	66501	100.000	113.98
19 Iodomethane	142	3.179	3.179	(0.599)	165232	100.000	108.90
20 Carbon Disulfide	76	3.234	3.234	(0.609)	218257	100.000	109.05
21 Methylene Chloride	84	3.441	3.441	(0.648)	104635	100.000	104.74
22 Acetonitrile	41	3.331	3.331	(0.628)	164578	1000.00	921.78
23 Acrylonitrile	53	3.641	3.641	(0.686)	92084	200.000	196.49

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82635.D
Report Date: 26-Feb-2010 23:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.641	3.641	(0.686)	156196	100.000	105.28
25 trans-1,2-Dichloroethene	96	3.653	3.653	(0.688)	96267	100.000	113.61
26 Hexane	86	3.842	3.842	(0.724)	21422	100.000	113.78
28 1,1-Dichloroethane	63	3.982	3.982	(0.750)	179864	100.000	111.16
29 tert-Butyl Alcohol	59	3.526	3.526	(0.664)	155298	2000.00	2055.9
30 2-Butanone	43	4.432	4.432	(0.835)	144091	200.000	178.69
32 cis-1,2-dichloroethene	96	4.426	4.426	(0.834)	106023	100.000	108.33
33 2,2-Dichloropropane	77	4.426	4.426	(0.834)	90293	100.000	112.01
34 Bromochloromethane	128	4.609	4.609	(0.868)	56952	100.000	111.55
35 Chloroform	83	4.663	4.663	(0.879)	155960	100.000	108.88
36 Tetrahydrofuran	42	4.645	4.645	(0.875)	49803	100.000	101.49
37 1,1,1-Trichloroethane	97	4.815	4.815	(0.907)	135471	100.000	111.99
38 1,1-Dichloropropene	75	4.931	4.931	(0.929)	113106	100.000	115.37
39 Carbon Tetrachloride	117	4.937	4.937	(0.930)	119634	100.000	113.35
40 1,2-Dichloroethane	62	5.114	5.114	(0.963)	145449	100.000	106.15
41 Benzene	78	5.101	5.101	(0.961)	351396	100.000	107.38
42 Trichloroethene	130	5.594	5.594	(1.054)	132214	100.000	131.69
43 1,2-Dichloropropane	63	5.783	5.783	(1.089)	99190	100.000	109.91
44 1,4-Dioxane	88	5.880	5.880	(1.108)	44932	5000.00	5330.8
45 Dibromomethane	93	5.880	5.880	(1.108)	54334	100.000	109.02
46 Bromodichloromethane	83	5.996	5.996	(1.129)	99247	100.000	107.68
47 2-Chloroethyl vinyl ether	63	6.215	6.215	(1.171)	57004	200.000	207.94
48 cis-1,3-Dichloropropene	75	6.355	6.355	(1.197)	121429	100.000	106.07
49 4-Methyl-2-pentanone	43	6.470	6.470	(1.219)	274043	200.000	205.63
50 Toluene	91	6.640	6.640	(0.846)	406443	100.000	101.96
51 trans-1,3-Dichloropropene	75	6.811	6.811	(0.868)	109680	100.000	109.48
52 Ethyl Methacrylate	69	6.859	6.859	(0.874)	117380	100.000	110.29
53 1,1,2-Trichloroethane	97	6.981	6.981	(0.890)	83558	100.000	109.75
54 1,3-Dichloropropane	76	7.127	7.127	(0.909)	139997	100.000	107.11
55 Tetrachloroethene	164	7.103	7.103	(0.905)	80901	100.000	111.39
56 2-Hexanone	43	7.176	7.176	(0.915)	188827	200.000	201.96
57 Dibromochloromethane	129	7.334	7.334	(0.935)	85035	100.000	105.57
58 1,2-Dibromoethane	107	7.450	7.450	(0.950)	85904	100.000	113.42
59 Chlorobenzene	112	7.875	7.875	(1.004)	282201	100.000	109.06
60 1,1,1,2-Tetrachloroethane	131	7.942	7.942	(1.012)	100132	100.000	113.78
61 Ethylbenzene	106	7.954	7.954	(1.014)	153252	100.000	114.55
62 m + p-Xylene	106	8.058	8.058	(1.027)	376073	200.000	226.66
64 Xylene-o	106	8.429	8.429	(1.074)	184486	100.000	113.38
65 Styrene	104	8.441	8.441	(1.076)	283956	100.000	113.52
66 Bromoform	173	8.636	8.636	(1.101)	45212	100.000	100.51
67 Isopropylbenzene	105	8.764	8.764	(1.117)	470853	100.000	116.68
68 1,1,2,2-Tetrachloroethane	83	9.056	9.056	(0.902)	74076	100.000	88.382
69 1,4-Dichloro-2-butene	53	9.110	9.110	(0.907)	37022	100.000	105.54
70 1,2,3-Trichloropropane	110	9.110	9.110	(0.907)	34530	100.000	111.07
71 Bromobenzene	156	9.080	9.080	(0.904)	121733	100.000	113.26
72 n-Propylbenzene	120	9.153	9.153	(0.912)	128012	100.000	116.10
73 2-Chlorotoluene	126	9.256	9.256	(0.922)	115892	100.000	114.56
74 1,3,5-Trimethylbenzene	105	9.317	9.317	(0.928)	378031	100.000	119.20
75 4-Chlorotoluene	126	9.360	9.360	(0.932)	120113	100.000	115.66
76 tert-Butylbenzene	119	9.640	9.640	(0.960)	340785	100.000	117.35
77 1,2,4-Trimethylbenzene	105	9.688	9.688	(0.965)	384251	100.000	119.71
78 sec-Butylbenzene	105	9.853	9.853	(0.981)	473231	100.000	119.80
79 4-Isopropyltoluene	119	9.986	9.986	(0.995)	391209	100.000	117.14
80 1,3-Dichlorobenzene	146	9.980	9.980	(0.994)	226738	100.000	112.05

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82635.D
Report Date: 26-Feb-2010 23:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	10.065	10.065	(1.002)	229276	100.000	108.58
82	n-Butylbenzene	91	10.394	10.394	(1.035)	301351	100.000	112.45
83	1,2-Dichlorobenzene	146	10.437	10.437	(1.039)	209500	100.000	106.84
84	1,2-Dibromo-3-chloropropane	157	11.209	11.209	(1.116)	15840	100.000	98.598
85	1,2,4-Trichlorobenzene	180	12.024	12.024	(1.198)	112507	100.000	101.67
86	Hexachlorobutadiene	225	12.182	12.182	(1.213)	56970	100.000	107.03
87	Naphthalene	128	12.286	12.286	(1.224)	303461	100.000	106.61
88	1,2,3-Trichlorobenzene	180	12.548	12.548	(1.250)	111534	100.000	103.63
98	Cyclohexane	56	4.852	4.852	(0.914)	236411	100.000	103.10
143	Methyl Acetate	43	3.355	3.355	(0.632)	224864	200.000	189.96
144	Methylcyclohexane	83	5.746	5.746	(1.083)	179762	100.000	112.60
141	1,3,5-Trichlorobenzene	180	11.404	11.404	(1.136)	132655	100.000	105.13

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82635.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

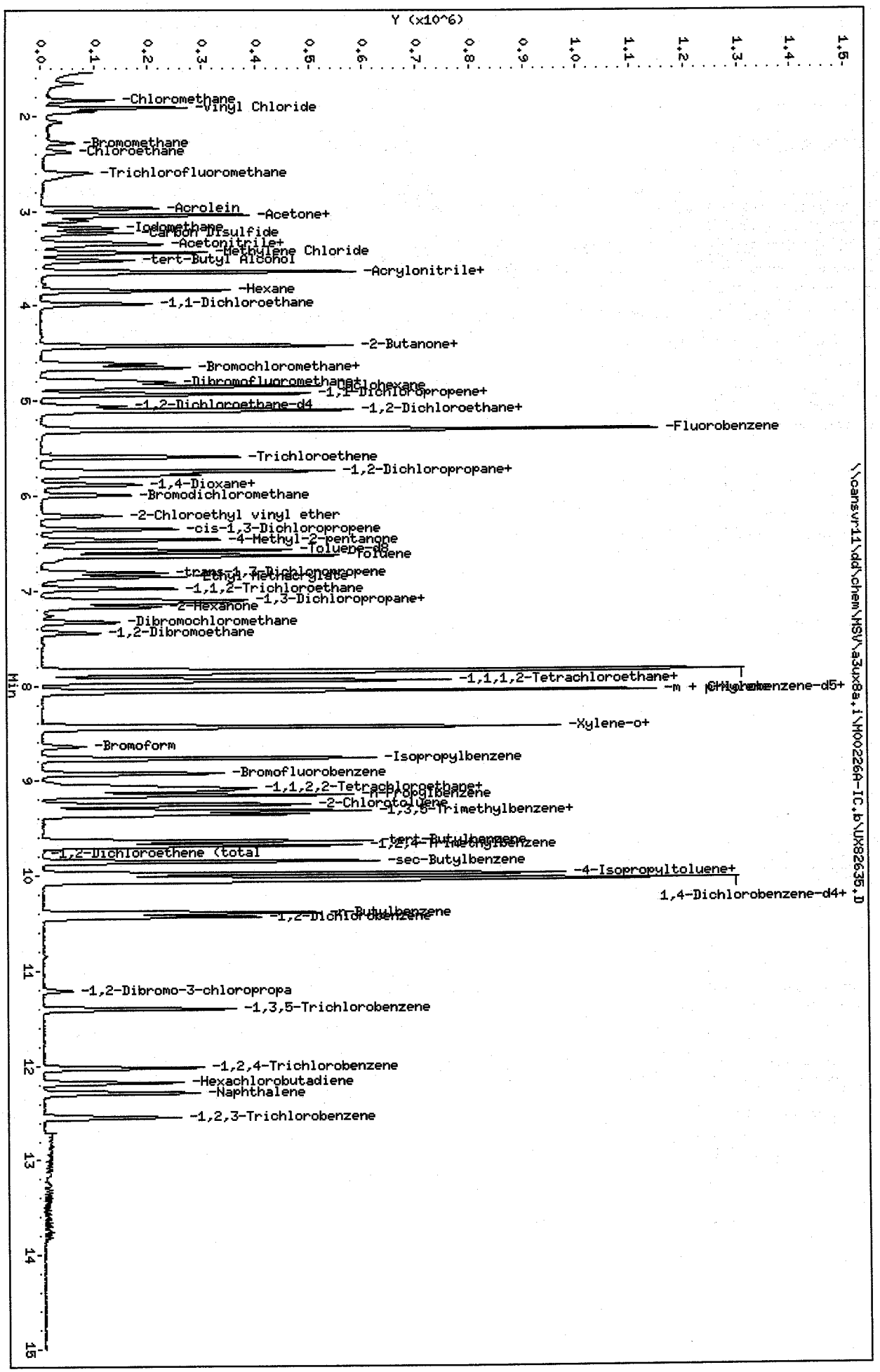
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82635.D
Lab Smp Id: 100NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Calibration Date: 26-FEB-2010
Calibration Time: 18:53
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Misc Info: M00226A-IC,8260SUX8,1-8260.SUB,402279,1,5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1019892	509946	2039784	997014	-2.24
2 Chlorobenzene-d5	818266	409133	1636532	785191	-4.04
3 1,4-Dichlorobenze	423007	211504	846014	389139	-8.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.09
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	-0.02
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\H002260-IC.b\UX82635.D
Date : 26-FEB-2010 19:15
Client ID:
Sample Info: 100NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82636.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82636.D
Lab Smp Id: 50NG-IC
Inj Date : 26-FEB-2010 19:36
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : 50NG-IC
Misc Info : M00226A-IC,8260SUX8,1-8260.SUB,402279,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Meth Date : 26-Feb-2010 23:14 a3ux8a.i Quant Type: ISTD
Cal Date : 14-DEC-2009 20:58 Cal File: UX81429.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	5.303	5.303	(1.000)	957304	250.000	
* 2 Chlorobenzene-d5	117	7.846	7.846	(1.000)	772276	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.042	(1.000)	410423	250.000	
$ 4 Dibromofluoromethane	113	4.786	4.786	(0.902)	39051	50.0000	48.810
$ 5 1,2-Dichloroethane-d4	65	5.053	5.053	(0.953)	56011	50.0000	53.248
$ 6 Toluene-d8	98	6.580	6.580	(1.241)	151467	50.0000	46.573
$ 7 Bromofluorobenzene	95	8.923	8.923	(1.137)	64628	50.0000	49.372
8 Dichlorodifluoromethane	85	1.659	1.659	(0.313)	32368	50.0000	51.964
9 Chloromethane	50	1.835	1.835	(0.346)	57324	50.0000	52.612
10 Vinyl Chloride	62	1.951	1.951	(0.368)	39073	50.0000	51.438
11 Bromomethane	94	2.286	2.286	(0.431)	20998	50.0000	58.355
12 Chloroethane	64	2.383	2.383	(0.449)	21688	50.0000	53.682
13 Trichlorofluoromethane	101	2.602	2.602	(0.491)	40490	50.0000	52.787
15 Acrolein	56	2.973	2.973	(0.561)	118741	500.000	594.74
16 Acetone	43	3.101	3.101	(0.585)	76002	100.000	118.62
17 1,1-Dichloroethene	96	3.046	3.046	(0.574)	35944	50.0000	52.403
18 Freon-113	151	3.046	3.046	(0.574)	28470	50.0000	50.821
19 Iodomethane	142	3.180	3.180	(0.600)	78065	50.0000	53.586
20 Carbon Disulfide	76	3.235	3.235	(0.610)	99062	50.0000	51.548
21 Methylene Chloride	84	3.441	3.441	(0.649)	53640	50.0000	55.919
22 Acetonitrile	41	3.332	3.332	(0.628)	96597	500.000	563.47
23 Acrylonitrile	53	3.642	3.642	(0.687)	50369	100.000	111.94

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82636.D
Report Date: 26-Feb-2010 23:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.642	3.642	(0.687)	73110	50.0000	51.322
25 trans-1,2-Dichloroethene	96	3.654	3.654	(0.689)	43770	50.0000	53.800
26 Hexane	86	3.849	3.849	(0.726)	9326	50.0000	51.590
28 1,1-Dichloroethane	63	3.983	3.983	(0.751)	81161	50.0000	52.243
29 tert-Butyl Alcohol	59	3.520	3.520	(0.664)	76885	1000.00	1060.0
30 2-Butanone	43	4.427	4.427	(0.835)	79996	100.000	103.32
32 cis-1,2-dichloroethene	96	4.427	4.427	(0.835)	49892	50.0000	53.091
33 2,2-Dichloropropane	77	4.421	4.421	(0.834)	39800	50.0000	51.420
34 Bromochloromethane	128	4.615	4.615	(0.870)	25888	50.0000	52.810
35 Chloroform	83	4.664	4.664	(0.880)	70470	50.0000	51.239
36 Tetrahydrofuran	42	4.646	4.646	(0.876)	24423	50.0000	51.833
37 1,1,1-Trichloroethane	97	4.810	4.810	(0.907)	61384	50.0000	52.849
38 1,1-Dichloropropene	75	4.932	4.932	(0.930)	49826	50.0000	52.931
39 Carbon Tetrachloride	117	4.938	4.938	(0.931)	50878	50.0000	50.206
40 1,2-Dichloroethane	62	5.114	5.114	(0.964)	67608	50.0000	51.390
41 Benzene	78	5.096	5.096	(0.961)	163450	50.0000	52.017
42 Trichloroethene	130	5.589	5.589	(1.054)	47101	50.0000	48.860
43 1,2-Dichloropropane	63	5.784	5.784	(1.091)	44431	50.0000	51.275
44 1,4-Dioxane	88	5.875	5.875	(1.108)	21556	2500.00	2663.5
45 Dibromomethane	93	5.881	5.881	(1.109)	25151	50.0000	52.557
46 Bromodichloromethane	83	5.990	5.990	(1.130)	43797	50.0000	49.487
47 2-Chloroethyl vinyl ether	63	6.215	6.215	(1.172)	28750	100.000	109.22
48 cis-1,3-Dichloropropene	75	6.355	6.355	(1.198)	53923	50.0000	49.056
49 4-Methyl-2-pentanone	43	6.471	6.471	(1.220)	148153	100.000	115.78
50 Toluene	91	6.635	6.635	(0.846)	185681	50.0000	47.360
51 trans-1,3-Dichloropropene	75	6.818	6.818	(0.869)	46262	50.0000	46.952
52 Ethyl Methacrylate	69	6.860	6.860	(0.874)	51525	50.0000	49.224
53 1,1,2-Trichloroethane	97	6.982	6.982	(0.890)	38579	50.0000	51.518
54 1,3-Dichloropropane	76	7.128	7.128	(0.909)	64570	50.0000	50.228
55 Tetrachloroethene	164	7.104	7.104	(0.905)	35071	50.0000	49.096
56 2-Hexanone	43	7.177	7.177	(0.915)	105870	100.000	115.13
57 Dibromochloromethane	129	7.335	7.335	(0.935)	35926	50.0000	45.346
58 1,2-Dibromoethane	107	7.450	7.450	(0.950)	38648	50.0000	51.882
59 Chlorobenzene	112	7.870	7.870	(1.003)	130514	50.0000	51.283
60 1,1,1,2-Tetrachloroethane	131	7.943	7.943	(1.012)	45147	50.0000	52.160
61 Ethylbenzene	106	7.955	7.955	(1.014)	68139	50.0000	51.783
62 m + p-Xylene	106	8.059	8.059	(1.027)	170167	100.000	104.27
64 Xylene-o	106	8.430	8.430	(1.074)	82598	50.0000	51.613
65 Styrene	104	8.442	8.442	(1.076)	128459	50.0000	52.215
66 Bromoform	173	8.637	8.637	(1.101)	20042	50.0000	45.300
67 Isopropylbenzene	105	8.764	8.764	(1.117)	209476	50.0000	52.778
68 1,1,2,2-Tetrachloroethane	83	9.050	9.050	(0.901)	48058	50.0000	54.366
69 1,4-Dichloro-2-butene	53	9.111	9.111	(0.907)	19640	50.0000	53.088
70 1,2,3-Trichloropropane	110	9.111	9.111	(0.907)	17368	50.0000	52.971
71 Bromobenzene	156	9.081	9.081	(0.904)	56604	50.0000	49.935
72 n-Propylbenzene	120	9.154	9.154	(0.912)	58014	50.0000	49.888
73 2-Chlorotoluene	126	9.251	9.251	(0.921)	54179	50.0000	50.777
74 1,3,5-Trimethylbenzene	105	9.318	9.318	(0.928)	172301	50.0000	51.510
75 4-Chlorotoluene	126	9.361	9.361	(0.932)	57039	50.0000	52.074
76 tert-Butylbenzene	119	9.640	9.640	(0.960)	155453	50.0000	50.753
77 1,2,4-Trimethylbenzene	105	9.689	9.689	(0.965)	178950	50.0000	52.858
78 sec-Butylbenzene	105	9.853	9.853	(0.981)	209881	50.0000	50.379
79 4-Isopropyltoluene	119	9.987	9.987	(0.995)	179574	50.0000	50.980
80 1,3-Dichlorobenzene	146	9.981	9.981	(0.994)	107692	50.0000	50.460

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82636.D
Report Date: 26-Feb-2010 23:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	10.066	10.066	(1.002)	112571	50.0000	50.544
82	n-Butylbenzene	91	10.389	10.389	(1.035)	142203	50.0000	50.313
83	1,2-Dichlorobenzene	146	10.437	10.437	(1.039)	106267	50.0000	51.385
84	1,2-Dibromo-3-chloropropane	157	11.216	11.216	(1.117)	7873	50.0000	46.465
85	1,2,4-Trichlorobenzene	180	12.025	12.025	(1.197)	61338	50.0000	52.554
86	Hexachlorobutadiene	225	12.183	12.183	(1.213)	30008	50.0000	53.454
87	Naphthalene	128	12.293	12.293	(1.224)	153519	50.0000	51.138
88	1,2,3-Trichlorobenzene	180	12.548	12.548	(1.250)	60748	50.0000	53.516
98	Cyclohexane	56	4.853	4.853	(0.915)	105843	50.0000	48.074
143	Methyl Acetate	43	3.356	3.356	(0.633)	125776	100.000	110.66
144	Methylcyclohexane	83	5.747	5.747	(1.084)	77700	50.0000	50.688
141	1,3,5-Trichlorobenzene	180	11.405	11.405	(1.136)	68771	50.0000	51.675

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82636.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

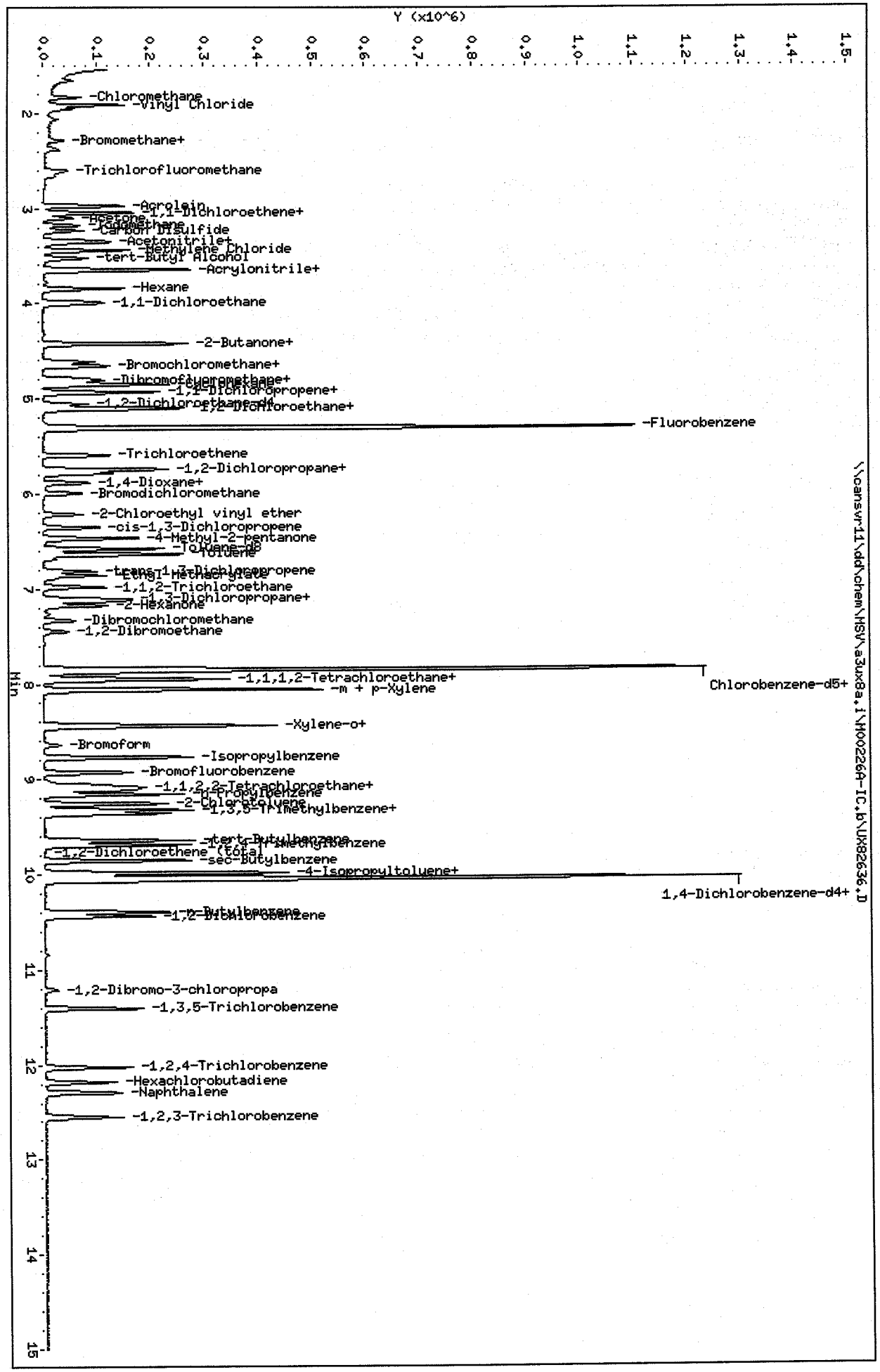
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82636.D
Lab Smp Id: 50NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Calibration Date: 26-FEB-2010
Calibration Time: 18:53
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Misc Info: M00226A-IC,8260SUX8,1-8260.SUB,402279,1,4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1019892	509946	2039784	957304	-6.14
2 Chlorobenzene-d5	818266	409133	1636532	772276	-5.62
3 1,4-Dichlorobenze	423007	211504	846014	410423	-2.97

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.30	-0.01
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82636.D
Date : 26-FEB-2010 19:36
Client ID:
Sample Info: 50NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82636.D
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-2-Butanone+
-Bromochloromethane+
-Dibromofluoromethane+
-1,2-Dichloropropene+
-1,2-Dichloroethane-d4
1,2-Dichloroethane+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
Toluene
-trans-1,3-Dichloropropene
Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
1,2,4-Trimethylbenzene
-1,2-Dichloroethene (total)
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82637.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82637.D
Lab Smp Id: 25NG-IC
Inj Date : 26-FEB-2010 19:57
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : 25NG-IC
Misc Info : M00226A-IC,8260SUX8,1-8260.SUB,402279,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Meth Date : 26-Feb-2010 23:14 a3ux8a.i Quant Type: ISTD
Cal Date : 14-DEC-2009 21:20 Cal File: UX81430.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	5.306	5.306	(1.000)	950067	250.000	
* 2 Chlorobenzene-d5	117	7.843	7.843	(1.000)	771652	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.039	10.039	(1.000)	402509	250.000	
$ 4 Dibromofluoromethane	113	4.783	4.783	(0.901)	20168	25.0000	25.400
$ 5 1,2-Dichloroethane-d4	65	5.057	5.057	(0.953)	30230	25.0000	27.542
$ 6 Toluene-d8	98	6.578	6.578	(1.240)	78878	25.0000	24.438
$ 7 Bromofluorobenzene	95	8.926	8.926	(1.138)	36303	25.0000	26.624
8 Dichlorodifluoromethane	85	1.656	1.656	(0.312)	14174	25.0000	22.928
9 Chloromethane	50	1.833	1.833	(0.345)	26855	25.0000	24.835
10 Vinyl Chloride	62	1.948	1.948	(0.367)	17531	25.0000	23.254
11 Bromomethane	94	2.283	2.283	(0.430)	9395	25.0000	26.308
12 Chloroethane	64	2.380	2.380	(0.449)	10572	25.0000	26.367
13 Trichlorofluoromethane	101	2.605	2.605	(0.491)	18659	25.0000	24.511
15 Acrolein	56	2.970	2.970	(0.560)	56097	250.000	283.11
16 Acetone	43	3.098	3.098	(0.584)	48640	50.0000	56.614
17 1,1-Dichloroethene	96	3.049	3.049	(0.575)	16378	25.0000	24.059
18 Freon-113	151	3.043	3.043	(0.574)	14643	25.0000	26.338
19 Iodomethane	142	3.177	3.177	(0.599)	36199	25.0000	25.037
20 Carbon Disulfide	76	3.232	3.232	(0.609)	44348	25.0000	23.252
21 Methylene Chloride	84	3.445	3.445	(0.649)	28024	25.0000	29.437
22 Acetonitrile	41	3.329	3.329	(0.627)	46104	250.000	270.98
23 Acrylonitrile	53	3.639	3.639	(0.686)	23787	50.0000	53.265

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82637.D
Report Date: 26-Feb-2010 23:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.645	3.645	(0.687)	34488	25.0000	24.394
25 trans-1,2-Dichloroethene	96	3.652	3.652	(0.688)	20981	25.0000	25.985
26 Hexane	86	3.840	3.840	(0.724)	4489	25.0000	25.022
28 1,1-Dichloroethane	63	3.980	3.980	(0.750)	38381	25.0000	24.894
29 tert-Butyl Alcohol	59	3.524	3.524	(0.664)	38895	500.000	540.35
30 2-Butanone	43	4.430	4.430	(0.835)	39982	50.0000	52.034
32 cis-1,2-dichloroethene	96	4.424	4.424	(0.834)	24293	25.0000	26.047
33 2,2-Dichloropropane	77	4.424	4.424	(0.834)	17851	25.0000	23.238
34 Bromochloromethane	128	4.613	4.613	(0.869)	12819	25.0000	26.349
35 Chloroform	83	4.661	4.661	(0.878)	34258	25.0000	25.099
36 Tetrahydrofuran	42	4.649	4.649	(0.876)	11714	25.0000	25.050
37 1,1,1-Trichloroethane	97	4.813	4.813	(0.907)	27825	25.0000	24.139
38 1,1-Dichloropropene	75	4.929	4.929	(0.929)	23209	25.0000	24.843
39 Carbon Tetrachloride	117	4.935	4.935	(0.930)	24170	25.0000	24.032
40 1,2-Dichloroethane	62	5.118	5.118	(0.964)	34410	25.0000	26.355
41 Benzene	78	5.099	5.099	(0.961)	77021	25.0000	24.698
42 Trichloroethene	130	5.592	5.592	(1.054)	22604	25.0000	23.626
43 1,2-Dichloropropane	63	5.781	5.781	(1.089)	20335	25.0000	23.646
44 1,4-Dioxane	88	5.884	5.884	(1.109)	10885	1250.00	1355.2
45 Dibromomethane	93	5.884	5.884	(1.109)	11956	25.0000	25.174
46 Bromodichloromethane	83	5.994	5.994	(1.130)	20215	25.0000	23.015
47 2-Chloroethyl vinyl ether	63	6.213	6.213	(1.171)	11696	50.0000	44.773
48 cis-1,3-Dichloropropene	75	6.353	6.353	(1.197)	22605	25.0000	20.721
49 4-Methyl-2-pentanone	43	6.468	6.468	(1.219)	62931	50.0000	49.554
50 Toluene	91	6.639	6.639	(0.846)	94130	25.0000	24.028
51 trans-1,3-Dichloropropene	75	6.815	6.815	(0.869)	20595	25.0000	20.919
52 Ethyl Methacrylate	69	6.858	6.858	(0.874)	22031	25.0000	21.064
53 1,1,2-Trichloroethane	97	6.979	6.979	(0.890)	19148	25.0000	25.590
54 1,3-Dichloropropane	76	7.131	7.131	(0.909)	31654	25.0000	24.643
55 Tetrachloroethene	164	7.107	7.107	(0.906)	16328	25.0000	22.876
56 2-Hexanone	43	7.174	7.174	(0.915)	43116	50.0000	46.924
57 Dibromochloromethane	129	7.332	7.332	(0.935)	16753	25.0000	21.163
58 1,2-Dibromoethane	107	7.448	7.448	(0.950)	18238	25.0000	24.503
59 Chlorobenzene	112	7.873	7.873	(1.004)	64037	25.0000	25.182
60 1,1,1,2-Tetrachloroethane	131	7.940	7.940	(1.012)	20315	25.0000	23.489
61 Ethylbenzene	106	7.953	7.953	(1.014)	32238	25.0000	24.519
62 m + p-Xylene	106	8.062	8.062	(1.028)	80168	50.0000	49.164
64 Xylene-o	106	8.427	8.427	(1.074)	38337	25.0000	23.975
65 Styrene	104	8.445	8.445	(1.077)	59048	25.0000	24.021
66 Bromoform	173	8.640	8.640	(1.102)	8619	25.0000	19.497
67 Isopropylbenzene	105	8.768	8.768	(1.118)	92345	25.0000	23.285
68 1,1,2,2-Tetrachloroethane	83	9.054	9.054	(0.902)	22596	25.0000	26.064
69 1,4-Dichloro-2-butene	53	9.108	9.108	(0.907)	8001	25.0000	22.052
70 1,2,3-Trichloropropane	110	9.108	9.108	(0.907)	8189	25.0000	25.467
71 Bromobenzene	156	9.084	9.084	(0.905)	26905	25.0000	24.202
72 n-Propylbenzene	120	9.157	9.157	(0.912)	25468	25.0000	22.331
73 2-Chlorotoluene	126	9.254	9.254	(0.922)	23919	25.0000	22.858
74 1,3,5-Trimethylbenzene	105	9.321	9.321	(0.928)	75000	25.0000	22.862
75 4-Chlorotoluene	126	9.358	9.358	(0.932)	26443	25.0000	24.616
76 tert-Butylbenzene	119	9.644	9.644	(0.961)	68769	25.0000	22.894
77 1,2,4-Trimethylbenzene	105	9.686	9.686	(0.965)	76121	25.0000	22.927
78 sec-Butylbenzene	105	9.851	9.851	(0.981)	92133	25.0000	22.550
79 4-Isopropyltoluene	119	9.991	9.991	(0.995)	75460	25.0000	21.844
80 1,3-Dichlorobenzene	146	9.978	9.978	(0.994)	51479	25.0000	24.595

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82637.D
Report Date: 26-Feb-2010 23:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	10.064	10.064	(1.002)	52391	25.0000	23.986
82	n-Butylbenzene	91	10.392	10.392	(1.035)	58255	25.0000	21.016
83	1,2-Dichlorobenzene	146	10.435	10.435	(1.039)	49780	25.0000	24.544
84	1,2-Dibromo-3-chloropropane	157	11.207	11.207	(1.116)	3522	25.0000	21.195
85	1,2,4-Trichlorobenzene	180	12.022	12.022	(1.198)	26930	25.0000	23.527
86	Hexachlorobutadiene	225	12.181	12.181	(1.213)	12610	25.0000	22.904
87	Naphthalene	128	12.290	12.290	(1.224)	68897	25.0000	23.401
88	1,2,3-Trichlorobenzene	180	12.546	12.546	(1.250)	25195	25.0000	22.632
98	Cyclohexane	56	4.850	4.850	(0.914)	54528	25.0000	24.955
143	Methyl Acetate	43	3.353	3.353	(0.632)	56066	50.0000	49.704
144	Methylcyclohexane	83	5.744	5.744	(1.083)	36195	25.0000	23.792
141	1,3,5-Trichlorobenzene	180	11.408	11.408	(1.136)	30510	25.0000	23.376

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82637.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

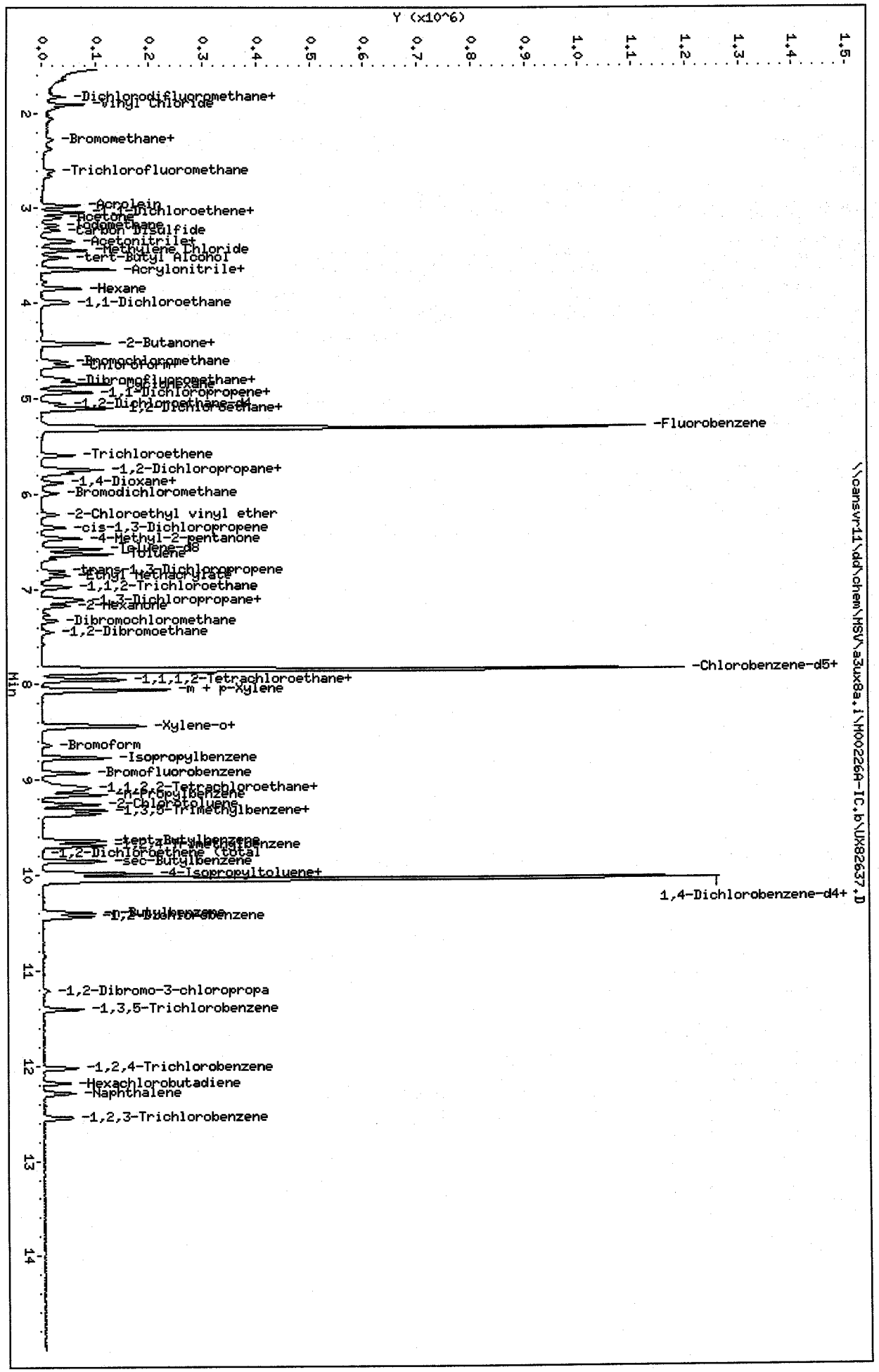
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82637.D
Lab Smp Id: 25NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Calibration Date: 26-FEB-2010
Calibration Time: 18:53
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Misc Info: M00226A-IC,8260SUX8,1-8260.SUB,402279,1,3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1019892	509946	2039784	950067	-6.85
2 Chlorobenzene-d5	818266	409133	1636532	771652	-5.70
3 1,4-Dichlorobenze	423007	211504	846014	402509	-4.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.05
2 Chlorobenzene-d5	7.85	7.35	8.35	7.84	-0.04
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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Date : 26-FEB-2010 19:57
Client ID:
Sample Info: 25NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-Acetone
-Iodomethane
-Carbon Disulfide
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-2-Butanone+
-Bromochloromethane
-Chloroform
-Dibromofluoromethane+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-1,2-Dichloroethene (total)
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
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Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82638.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82638.D
Lab Smp Id: 10NG-IC
Inj Date : 26-FEB-2010 20:19
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : 10NG-IC
Misc Info : M00226A-IC,8260SUX8,1-8260.SUB,402279,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Meth Date : 26-Feb-2010 23:14 a3ux8a.i Quant Type: ISTD
Cal Date : 14-DEC-2009 21:42 Cal File: UX81431.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	5.304	5.304	(1.000)	976023	250.000	
* 2 Chlorobenzene-d5	117	7.847	7.847	(1.000)	771604	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.043	10.043	(1.000)	384646	250.000	
$ 4 Dibromofluoromethane	113	4.787	4.787	(0.903)	9214	10.0000	11.296
$ 5 1,2-Dichloroethane-d4	65	5.055	5.055	(0.953)	13679	10.0000	10.394
$ 6 Toluene-d8	98	6.582	6.582	(1.241)	34205	10.0000	10.316
$ 7 Bromofluorobenzene	95	8.924	8.924	(1.137)	15768	10.0000	10.102
8 Dichlorodifluoromethane	85	1.660	1.660	(0.313)	5869	10.0000	9.241
9 Chloromethane	50	1.831	1.831	(0.345)	11068	10.0000	9.963
10 Vinyl Chloride	62	1.952	1.952	(0.368)	6381	10.0000	8.239
11 Bromomethane	94	2.281	2.281	(0.430)	4056	10.0000	11.056
12 Chloroethane	64	2.378	2.378	(0.448)	4300	10.0000	10.439
13 Trichlorofluoromethane	101	2.603	2.603	(0.491)	7840	10.0000	10.025
15 Acrolein	56	2.974	2.974	(0.561)	19431	100.000	95.457
16 Acetone	43	3.096	3.096	(0.584)	29956	20.0000	11.524
17 1,1-Dichloroethene	96	3.047	3.047	(0.575)	7485	10.0000	10.703
18 Freon-113	151	3.047	3.047	(0.575)	5107	10.0000	8.942
19 Iodomethane	142	3.181	3.181	(0.600)	14379	10.0000	9.681
20 Carbon Disulfide	76	3.236	3.236	(0.610)	18165	10.0000	9.271
21 Methylene Chloride	84	3.437	3.437	(0.648)	16406	10.0000	16.775
22 Acetonitrile	41	3.333	3.333	(0.628)	18508	100.000	105.89
23 Acrylonitrile	53	3.643	3.643	(0.687)	8641	20.0000	18.835

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82638.D
Report Date: 26-Feb-2010 23:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.637	3.637	(0.686)	14186	10.0000	9.767
25 trans-1,2-Dichloroethene	96	3.650	3.650	(0.688)	7766	10.0000	9.362
26 Hexane	86	3.850	3.850	(0.726)	1387	10.0000	7.526
28 1,1-Dichloroethane	63	3.978	3.978	(0.750)	15777	10.0000	9.961
29 tert-Butyl Alcohol	59	3.516	3.516	(0.663)	15302	200.000	206.93
30 2-Butanone	43	4.434	4.434	(0.836)	17244	20.0000	21.845
32 cis-1,2-dichloroethene	96	4.422	4.422	(0.834)	9736	10.0000	10.162
33 2,2-Dichloropropane	77	4.422	4.422	(0.834)	7576	10.0000	9.600
34 Bromochloromethane	128	4.611	4.611	(0.869)	4928	10.0000	9.860
35 Chloroform	83	4.659	4.659	(0.878)	14337	10.0000	10.224
36 Tetrahydrofuran	42	4.647	4.647	(0.876)	4867	10.0000	10.131
37 1,1,1-Trichloroethane	97	4.805	4.805	(0.906)	10676	10.0000	9.015
38 1,1-Dichloropropene	75	4.927	4.927	(0.929)	9285	10.0000	9.674
39 Carbon Tetrachloride	117	4.939	4.939	(0.931)	9047	10.0000	8.756
40 1,2-Dichloroethane	62	5.110	5.110	(0.963)	13381	10.0000	9.976
41 Benzene	78	5.104	5.104	(0.962)	31501	10.0000	9.833
42 Trichloroethene	130	5.596	5.596	(1.055)	8658	10.0000	8.809
43 1,2-Dichloropropane	63	5.779	5.779	(1.089)	8760	10.0000	9.916
44 1,4-Dioxane	88	5.882	5.882	(1.109)	3234	500.000	391.94
45 Dibromomethane	93	5.888	5.888	(1.110)	4599	10.0000	9.426
46 Bromodichloromethane	83	5.998	5.998	(1.131)	8395	10.0000	9.304
47 2-Chloroethyl vinyl ether	63	6.217	6.217	(1.172)	4027	20.0000	15.006
48 cis-1,3-Dichloropropene	75	6.357	6.357	(1.198)	10006	10.0000	8.928
49 4-Methyl-2-pentanone	43	6.466	6.466	(1.219)	21453	20.0000	16.444
50 Toluene	91	6.637	6.637	(0.846)	45128	10.0000	11.520
51 trans-1,3-Dichloropropene	75	6.807	6.807	(0.867)	7750	10.0000	7.872
52 Ethyl Methacrylate	69	6.862	6.862	(0.874)	8150	10.0000	7.793
53 1,1,2-Trichloroethane	97	6.977	6.977	(0.889)	7543	10.0000	10.082
54 1,3-Dichloropropane	76	7.129	7.129	(0.909)	13318	10.0000	10.369
55 Tetrachloroethene	164	7.105	7.105	(0.905)	7278	10.0000	10.197
56 2-Hexanone	43	7.178	7.178	(0.915)	14234	20.0000	15.492
57 Dibromochloromethane	129	7.330	7.330	(0.934)	5445	10.0000	6.879
58 1,2-Dibromoethane	107	7.446	7.446	(0.949)	7349	10.0000	9.874
59 Chlorobenzene	112	7.872	7.872	(1.003)	25688	10.0000	10.102
60 1,1,1,2-Tetrachloroethane	131	7.938	7.938	(1.012)	7725	10.0000	8.933
61 Ethylbenzene	106	7.963	7.963	(1.015)	11254	10.0000	8.560
62 m + p-Xylene	106	8.060	8.060	(1.027)	30401	20.0000	18.645
64 Xylene-o	106	8.431	8.431	(1.074)	15819	10.0000	9.893
65 Styrene	104	8.443	8.443	(1.076)	20600	10.0000	8.381
66 Bromoform	173	8.638	8.638	(1.101)	3064	10.0000	6.931
67 Isopropylbenzene	105	8.766	8.766	(1.117)	34219	10.0000	8.629
68 1,1,2,2-Tetrachloroethane	83	9.052	9.052	(0.901)	8255	10.0000	9.964
69 1,4-Dichloro-2-butene	53	9.113	9.113	(0.907)	2691	10.0000	7.761
70 1,2,3-Trichloropropane	110	9.106	9.106	(0.907)	2973	10.0000	9.675
71 Bromobenzene	156	9.076	9.076	(0.904)	11214	10.0000	10.556
72 n-Propylbenzene	120	9.155	9.155	(0.912)	9526	10.0000	8.741
73 2-Chlorotoluene	126	9.259	9.259	(0.922)	10341	10.0000	10.341
74 1,3,5-Trimethylbenzene	105	9.319	9.319	(0.928)	27203	10.0000	8.678
75 4-Chlorotoluene	126	9.356	9.356	(0.932)	10030	10.0000	9.770
76 tert-Butylbenzene	119	9.642	9.642	(0.960)	26490	10.0000	9.228
77 1,2,4-Trimethylbenzene	105	9.684	9.684	(0.964)	27532	10.0000	8.677
78 sec-Butylbenzene	105	9.849	9.849	(0.981)	33573	10.0000	8.599
79 4-Isopropyltoluene	119	9.989	9.989	(0.995)	24526	10.0000	7.429
80 1,3-Dichlorobenzene	146	9.976	9.976	(0.993)	20164	10.0000	10.081

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82638.D
Report Date: 26-Feb-2010 23:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	10.062	10.062	(1.002)	21751	10.0000	10.421
82	n-Butylbenzene	91	10.396	10.396	(1.035)	21288	10.0000	8.037
83	1,2-Dichlorobenzene	146	10.439	10.439	(1.039)	20056	10.0000	10.348
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.027	12.027	(1.197)	10427	10.0000	9.532
86	Hexachlorobutadiene	225	12.179	12.179	(1.213)	4926	10.0000	9.363
87	Naphthalene	128	12.294	12.294	(1.224)	24750	10.0000	8.797
88	1,2,3-Trichlorobenzene	180	12.544	12.544	(1.249)	10485	10.0000	9.856
98	Cyclohexane	56	4.848	4.848	(0.914)	24972	10.0000	11.125
143	Methyl Acetate	43	3.358	3.358	(0.633)	26007	20.0000	22.443
144	Methylcyclohexane	83	5.742	5.742	(1.083)	14056	10.0000	8.994
141	1,3,5-Trichlorobenzene	180	11.406	11.406	(1.136)	12534	10.0000	10.049

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82638.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

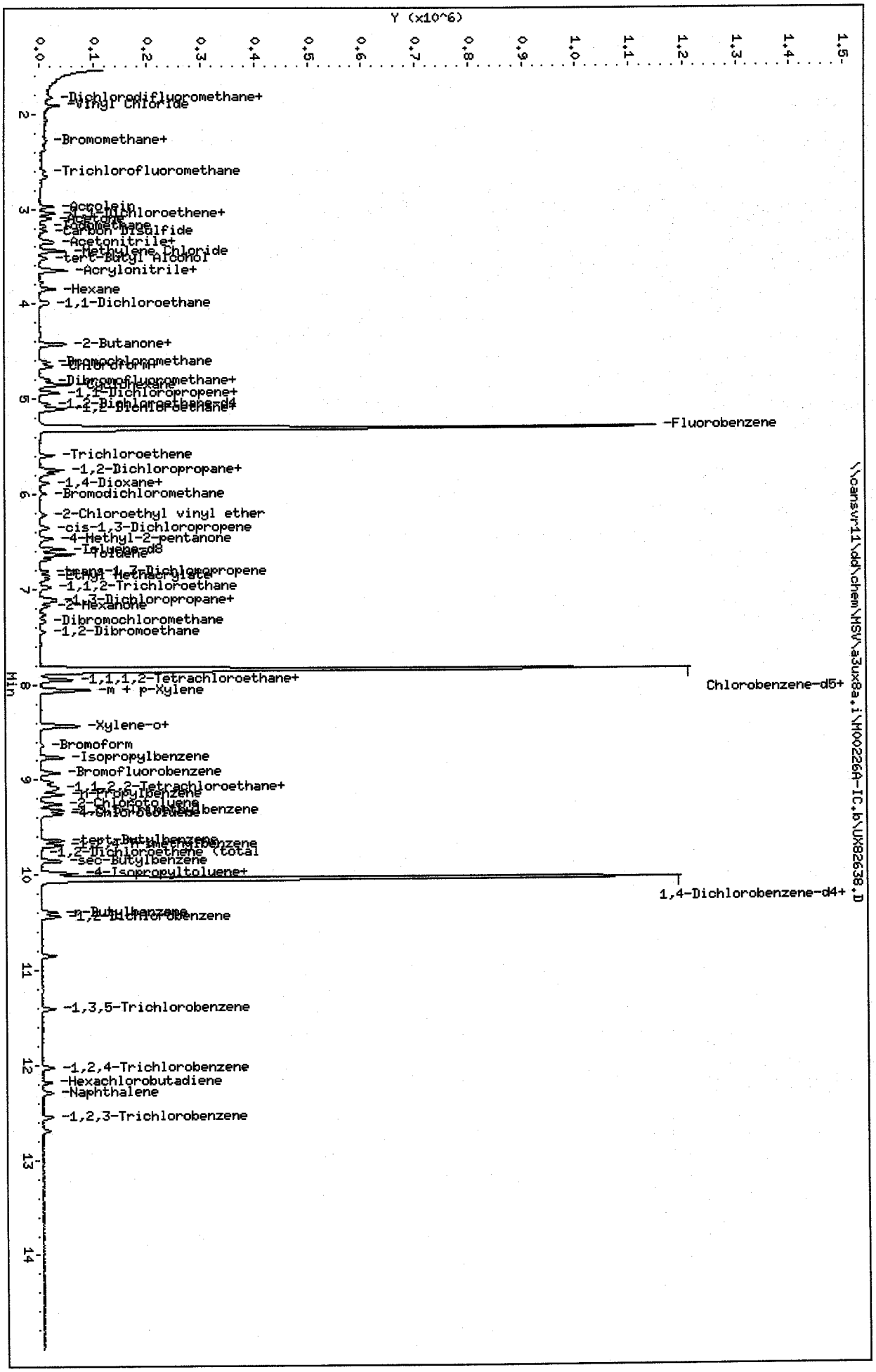
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82638.D
Lab Smp Id: 10NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Calibration Date: 26-FEB-2010
Calibration Time: 18:53
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Misc Info: M00226A-IC,8260SUX8,1-8260.SUB,402279,1,2

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1019892	509946	2039784	976023	-4.30
2 Chlorobenzene-d5	818266	409133	1636532	771604	-5.70
3 1,4-Dichlorobenze	423007	211504	846014	384646	-9.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.30	0.02
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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Date : 26-FEB-2010 20:19
Client ID:
Sample Info: 10NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-Carbon Disulfide
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-2-Butanone+
-Dibromofluoromethane+
-1,2-Dichloropropene+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\MSV\a3ux8a.i\H002266-IC.b\UX82638.D

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82639.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82639.D
Lab Smp Id: 5NG-IC
Inj Date : 26-FEB-2010 20:40
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : 5NG-IC
Misc Info : M00226A-IC,8260SUX8,1-8260.SUB,402279,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Meth Date : 26-Feb-2010 23:14 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:19 Cal File: UX82638.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	5.309	5.309	(1.000)	1008480	250.000	
* 2 Chlorobenzene-d5	117	7.846	7.846	(1.000)	780895	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.042	(1.000)	387315	250.000	
$ 4 Dibromofluoromethane	113	4.779	4.779	(0.900)	4316	5.00000	5.121
$ 5 1,2-Dichloroethane-d4	65	5.059	5.059	(0.953)	7825	5.00000	4.368
$ 6 Toluene-d8	98	6.580	6.580	(1.239)	19941	5.00000	5.820
$ 7 Bromofluorobenzene	95	8.935	8.935	(1.139)	9252	5.00000	4.770
8 Dichlorodifluoromethane	85	1.653	1.653	(0.311)	2502	5.00000	3.813
9 Chloromethane	50	1.829	1.829	(0.345)	5357	5.00000	4.667
10 Vinyl Chloride	62	1.951	1.951	(0.367)	2626	5.00000	3.282
11 Bromomethane	94	2.285	2.285	(0.431)	1726	5.00000	4.553
12 Chloroethane	64	2.377	2.377	(0.448)	1592	5.00000	3.740
13 Trichlorofluoromethane	101	2.608	2.608	(0.491)	3009	5.00000	3.724
15 Acrolein	56	2.973	2.973	(0.560)	9684	50.0000	46.043
16 Acetone	43	3.100	3.100	(0.584)	26328	10.0000	1.440
17 1,1-Dichloroethene	96	3.046	3.046	(0.574)	3136	5.00000	4.340
18 Freon-113	151	3.046	3.046	(0.574)	2608	5.00000	4.419
19 Iodomethane	142	3.173	3.173	(0.598)	6818	5.00000	4.442
20 Carbon Disulfide	76	3.234	3.234	(0.609)	8614	5.00000	4.255
21 Methylene Chloride	84	3.441	3.441	(0.648)	10311	5.00000	10.204
22 Acetonitrile	41	3.338	3.338	(0.629)	10327	50.0000	57.183
23 Acrylonitrile	53	3.642	3.642	(0.686)	4538	10.0000	9.573

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82639.D
Report Date: 26-Feb-2010 23:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.642	3.642	(0.686)	7149	5.00000	4.764
25 trans-1,2-Dichloroethene	96	3.654	3.654	(0.688)	3594	5.00000	4.193
26 Hexane	86	3.849	3.849	(0.725)	722	5.00000	3.791
28 1,1-Dichloroethane	63	3.989	3.989	(0.751)	7842	5.00000	4.792
29 tert-Butyl Alcohol	59	3.526	3.526	(0.664)	7132	100.000	93.343
30 2-Butanone	43	4.427	4.427	(0.834)	10335	10.0000	12.671
32 cis-1,2-dichloroethene	96	4.421	4.421	(0.833)	4441	5.00000	4.486
33 2,2-Dichloropropane	77	4.427	4.427	(0.834)	3502	5.00000	4.295
34 Bromochloromethane	128	4.609	4.609	(0.868)	2104	5.00000	4.074
35 Chloroform	83	4.658	4.658	(0.877)	6971	5.00000	4.811
36 Tetrahydrofuran	42	4.640	4.640	(0.874)	2755	5.00000	5.550
37 1,1,1-Trichloroethane	97	4.810	4.810	(0.906)	5213	5.00000	4.260
38 1,1-Dichloropropene	75	4.932	4.932	(0.929)	3675	5.00000	3.706
39 Carbon Tetrachloride	117	4.932	4.932	(0.929)	4079	5.00000	3.821
40 1,2-Dichloroethane	62	5.120	5.120	(0.964)	7015	5.00000	5.062
41 Benzene	78	5.096	5.096	(0.960)	16843	5.00000	5.088
42 Trichloroethene	130	5.589	5.589	(1.053)	4728	5.00000	4.656
43 1,2-Dichloropropane	63	5.783	5.783	(1.089)	4308	5.00000	4.719
44 1,4-Dioxane	88	5.887	5.887	(1.109)	1170	250.000	137.23
45 Dibromomethane	93	5.887	5.887	(1.109)	2408	5.00000	4.776
46 Bromodichloromethane	83	5.984	5.984	(1.127)	4050	5.00000	4.344
47 2-Chloroethyl vinyl ether	63	6.221	6.221	(1.172)	1623	10.0000	5.853
48 cis-1,3-Dichloropropene	75	6.355	6.355	(1.197)	4013	5.00000	3.466
49 4-Methyl-2-pentanone	43	6.465	6.465	(1.218)	10099	10.0000	7.492
50 Toluene	91	6.635	6.635	(0.846)	24983	5.00000	6.302
51 trans-1,3-Dichloropropene	75	6.811	6.811	(0.868)	3127	5.00000	3.139
52 Ethyl Methacrylate	69	6.866	6.866	(0.875)	2778	5.00000	2.625
53 1,1,2-Trichloroethane	97	6.982	6.982	(0.890)	3513	5.00000	4.639
54 1,3-Dichloropropane	76	7.128	7.128	(0.909)	6721	5.00000	5.170
55 Tetrachloroethene	164	7.103	7.103	(0.905)	3522	5.00000	4.876
56 2-Hexanone	43	7.176	7.176	(0.915)	6671	10.0000	7.174
57 Dibromochloromethane	129	7.328	7.328	(0.934)	2368	5.00000	2.956
58 1,2-Dibromoethane	107	7.444	7.444	(0.949)	2998	5.00000	3.980
59 Chlorobenzene	112	7.876	7.876	(1.004)	12830	5.00000	4.986
60 1,1,1,2-Tetrachloroethane	131	7.937	7.937	(1.012)	3506	5.00000	4.006
61 Ethylbenzene	106	7.961	7.961	(1.015)	6390	5.00000	4.802
62 m + p-Xylene	106	8.065	8.065	(1.028)	14932	10.0000	9.049
64 Xylene-o	106	8.436	8.436	(1.075)	6783	5.00000	4.192
65 Styrene	104	8.442	8.442	(1.076)	10514	5.00000	4.226
66 Bromoform	173	8.643	8.643	(1.102)	1494	5.00000	3.340
67 Isopropylbenzene	105	8.764	8.764	(1.117)	15682	5.00000	3.907
68 1,1,2,2-Tetrachloroethane	83	9.056	9.056	(0.902)	4198	5.00000	5.032
69 1,4-Dichloro-2-butene	53	9.117	9.117	(0.908)	1036	5.00000	2.967
70 1,2,3-Trichloropropane	110	9.105	9.105	(0.907)	860	5.00000	2.779
71 Bromobenzene	156	9.087	9.087	(0.905)	5082	5.00000	4.751
72 n-Propylbenzene	120	9.160	9.160	(0.912)	4423	5.00000	4.030
73 2-Chlorotoluene	126	9.257	9.257	(0.922)	4734	5.00000	4.701
74 1,3,5-Trimethylbenzene	105	9.318	9.318	(0.928)	12741	5.00000	4.036
75 4-Chlorotoluene	126	9.366	9.366	(0.933)	4495	5.00000	4.348
76 tert-Butylbenzene	119	9.634	9.634	(0.959)	11728	5.00000	4.057
77 1,2,4-Trimethylbenzene	105	9.689	9.689	(0.965)	12105	5.00000	3.789
78 sec-Butylbenzene	105	9.859	9.859	(0.982)	15417	5.00000	3.921
79 4-Isopropyltoluene	119	9.993	9.993	(0.995)	12040	5.00000	3.622
80 1,3-Dichlorobenzene	146	9.981	9.981	(0.994)	10062	5.00000	4.996

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82639.D
Report Date: 26-Feb-2010 23:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	10.066	10.066	(1.002)	11410	5.00000	5.429
82	n-Butylbenzene	91	10.395	10.395	(1.035)	9648	5.00000	3.617
83	1,2-Dichlorobenzene	146	10.437	10.437	(1.039)	10188	5.00000	5.220
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.031	12.031	(1.198)	5235	5.00000	4.753
86	Hexachlorobutadiene	225	12.183	12.183	(1.213)	2460	5.00000	4.643
87	Naphthalene	128	12.293	12.293	(1.224)	12650	5.00000	4.465
88	1,2,3-Trichlorobenzene	180	12.542	12.542	(1.249)	5529	5.00000	5.161
98	Cyclohexane	56	4.846	4.846	(0.913)	14232	5.00000	6.136
143	Methyl Acetate	43	3.356	3.356	(0.632)	11563	10.0000	9.657
144	Methylcyclohexane	83	5.747	5.747	(1.083)	7074	5.00000	4.381
141	1,3,5-Trichlorobenzene	180	11.410	11.410	(1.136)	6057	5.00000	4.823

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82639.D
Report Date: 26-Feb-2010 23:14

TestAmerica North Canton

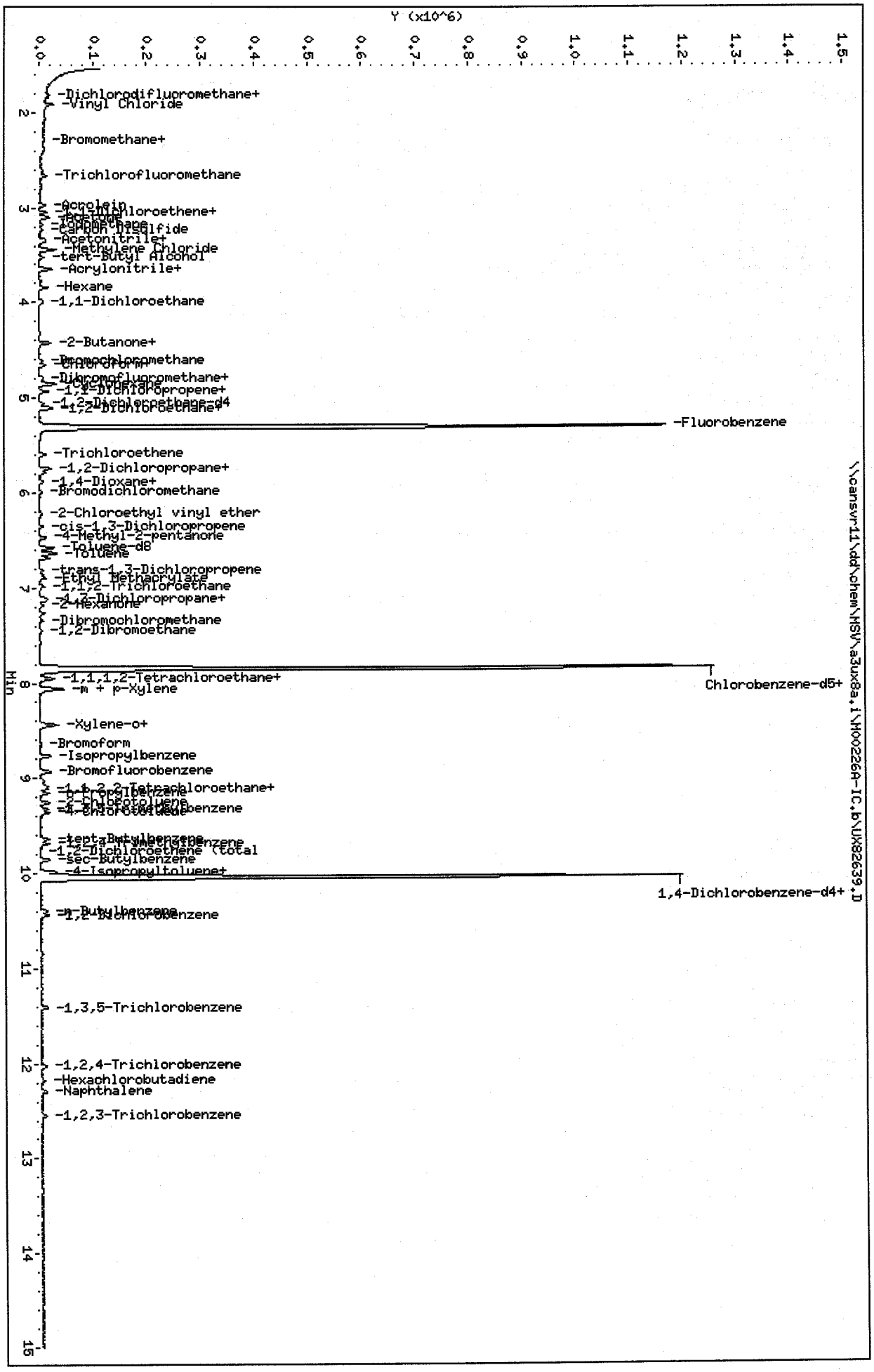
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82639.D
Lab Smp Id: 5NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Calibration Date: 26-FEB-2010
Calibration Time: 18:53
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Misc Info: M00226A-IC,8260SUX8,1-8260.SUB,402279,1,1

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1019892	509946	2039784	1008480	-1.12
2 Chlorobenzene-d5	818266	409133	1636532	780895	-4.57
3 1,4-Dichlorobenze	423007	211504	846014	387315	-8.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.10
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\H00226A-IC.b\UX82639.D
Date : 26-FEB-2010 20:40
Client ID:
Sample Info: 5NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-Acetone
-Carbon Disulfide
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-2-Butanone+
-Bromochloromethane
-Chloroform
-Dibromofluoromethane+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-1,2-Dichloroethene (total
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
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Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82643.D
Report Date: 26-Feb-2010 23:22

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82643.D
Lab Smp Id: CHECK/ICV
Inj Date : 26-FEB-2010 22:06
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : CHECK/ICV
Misc Info : M00226A-IC,8260SUX8,,402279,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Meth Date : 26-Feb-2010 23:14 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40 Cal File: UX82639.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
* 1 Fluorobenzene	96	5.309	5.309	(1.000)	1006533	250.000	
* 2 Chlorobenzene-d5	117	7.846	7.846	(1.000)	808042	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.042	(1.000)	412229	250.000	
$ 4 Dibromofluoromethane	113	4.786	4.779	(0.901)	190599	226.576	45.315
$ 5 1,2-Dichloroethane-d4	65	5.053	5.059	(0.952)	234232	221.033	44.206
$ 6 Toluene-d8	98	6.580	6.580	(1.239)	799162	233.707	46.741
$ 7 Bromofluorobenzene	95	8.929	8.935	(1.138)	294377	223.607	44.721
8 Dichlorodifluoromethane	85	1.659	1.653	(0.313)	115245	175.966	35.193(R)
9 Chloromethane	50	1.835	1.829	(0.346)	254149	221.848	44.370
10 Vinyl Chloride	62	1.957	1.951	(0.369)	193461	242.226	48.445
11 Bromomethane	94	2.285	2.285	(0.431)	96403	254.809	50.962
12 Chloroethane	64	2.383	2.377	(0.449)	117832	277.394	55.479
13 Trichlorofluoromethane	101	2.602	2.608	(0.490)	244835	303.581	60.716
15 Acrolein	56	2.973	2.973	(0.560)	174095	829.341	165.87
16 Acetone	43	3.101	3.100	(0.584)	167784	310.600	62.120
17 1,1-Dichloroethene	96	3.046	3.046	(0.574)	205943	285.559	57.112
18 Freon-113	151	3.046	3.046	(0.574)	180593	306.605	61.321
19 Iodomethane	142	3.180	3.173	(0.599)	416413	271.858	54.372
20 Carbon Disulfide	76	3.234	3.234	(0.609)	592869	293.415	58.683
21 Methylene Chloride	84	3.441	3.441	(0.648)	242535	240.473	48.094
22 Acetonitrile	41	3.338	3.338	(0.629)	123368	684.435	136.89
23 Acrylonitrile	53	3.642	3.642	(0.686)	355482	751.352	150.27

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82643.D
Report Date: 26-Feb-2010 23:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.642	3.642	(0.686)	347253	231.842	46.368
	25 trans-1,2-Dichloroethene	96	3.654	3.654	(0.688)	229864	268.718	53.744
	26 Hexane	86	3.843	3.849	(0.724)	55859	293.892	58.778
	28 1,1-Dichloroethane	63	3.983	3.989	(0.750)	423733	259.413	51.883
	29 tert-Butyl Alcohol	59	3.520	3.526	(0.663)	317807	4167.47	833.49
	30 2-Butanone	43	4.427	4.427	(0.834)	195600	240.280	48.056
M	31 1,2-Dichloroethene (total)	96				480866	522.750	104.55
	32 cis-1,2-dichloroethene	96	4.427	4.421	(0.834)	251002	254.032	50.806
	33 2,2-Dichloropropane	77	4.427	4.427	(0.834)	220388	270.806	54.161
	34 Bromochloromethane	128	4.615	4.609	(0.869)	129667	251.579	50.316
	35 Chloroform	83	4.658	4.658	(0.877)	366837	253.683	50.737
	36 Tetrahydrofuran	42	4.646	4.640	(0.875)	113455	229.007	45.801
	37 1,1,1-Trichloroethane	97	4.810	4.810	(0.906)	331656	271.578	54.316
	38 1,1-Dichloropropene	75	4.932	4.932	(0.929)	270270	273.071	54.614
	39 Carbon Tetrachloride	117	4.938	4.932	(0.930)	308764	289.783	57.957
	40 1,2-Dichloroethane	62	5.114	5.120	(0.963)	338753	244.896	48.979
	41 Benzene	78	5.102	5.096	(0.961)	836761	253.271	50.654
	42 Trichloroethene	130	5.595	5.589	(1.054)	253654	250.255	50.051
	43 1,2-Dichloropropane	63	5.783	5.783	(1.089)	234838	257.759	51.552
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	5.881	5.887	(1.108)	128815	256.015	51.203
	46 Bromodichloromethane	83	5.990	5.984	(1.128)	250578	269.286	53.857
	47 2-Chloroethyl vinyl ether	63	6.215	6.221	(1.171)	66310	239.601	47.920
	48 cis-1,3-Dichloropropene	75	6.355	6.355	(1.197)	298907	258.627	51.725
	49 4-Methyl-2-pentanone	43	6.465	6.465	(1.218)	356643	265.079	53.016
	50 Toluene	91	6.635	6.635	(0.846)	937659	228.574	45.715
	51 trans-1,3-Dichloropropene	75	6.811	6.811	(0.868)	277492	269.166	53.833
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	6.982	6.982	(0.890)	187416	239.194	47.839
	54 1,3-Dichloropropane	76	7.128	7.128	(0.909)	328835	244.471	48.894
	55 Tetrachloroethene	164	7.103	7.103	(0.905)	196807	263.314	52.663
	56 2-Hexanone	43	7.176	7.176	(0.915)	261891	272.183	54.436
	57 Dibromochloromethane	129	7.335	7.328	(0.935)	205989	248.494	49.699
	58 1,2-Dibromoethane	107	7.450	7.444	(0.950)	198622	254.833	50.967
	59 Chlorobenzene	112	7.870	7.876	(1.003)	663566	249.193	49.839
	60 1,1,1,2-Tetrachloroethane	131	7.937	7.937	(1.012)	242186	267.419	53.484
	61 Ethylbenzene	106	7.955	7.961	(1.014)	365747	265.649	53.130
	62 m + p-Xylene	106	8.059	8.065	(1.027)	902357	528.466	105.69
M	63 Xylenes (total)	106				1352077	797.042	159.41
	64 Xylene-o	106	8.430	8.436	(1.074)	449720	268.577	53.715
	65 Styrene	104	8.442	8.442	(1.076)	689974	268.043	53.608
	66 Bromoform	173	8.637	8.643	(1.101)	122019	263.584	52.717
	67 Isopropylbenzene	105	8.764	8.764	(1.117)	1147694	276.364	55.273
	68 1,1,2,2-Tetrachloroethane	83	9.056	9.056	(0.902)	234486	264.102	52.820
	69 1,4-Dichloro-2-butene	53	9.111	9.117	(0.907)	218952	589.242	117.85
	70 1,2,3-Trichloropropane	110	9.111	9.105	(0.907)	88022	267.284	53.457
	71 Bromobenzene	156	9.081	9.087	(0.904)	283072	248.628	49.726
	72 n-Propylbenzene	120	9.160	9.160	(0.912)	326716	279.723	55.945
	73 2-Chlorotoluene	126	9.257	9.257	(0.922)	282351	263.464	52.693
	74 1,3,5-Trimethylbenzene	105	9.318	9.318	(0.928)	947676	282.073	56.414
	75 4-Chlorotoluene	126	9.354	9.366	(0.932)	288379	262.123	52.425
	76 tert-Butylbenzene	119	9.640	9.634	(0.960)	837181	272.131	54.426
	77 1,2,4-Trimethylbenzene	105	9.689	9.689	(0.965)	967607	284.560	56.912
	78 sec-Butylbenzene	105	9.853	9.859	(0.981)	1163319	278.016	55.603

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82643.D
Report Date: 26-Feb-2010 23:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
79	4-Isopropyltoluene	119	9.987	9.993	(0.995)	1016112	287.205	57.441
80	1,3-Dichlorobenzene	146	9.981	9.981	(0.994)	537792	250.882	50.176
81	1,4-Dichlorobenzene	146	10.066	10.066	(1.002)	551179	246.396	49.279
82	n-Butylbenzene	91	10.389	10.395	(1.035)	799387	281.593	56.318
83	1,2-Dichlorobenzene	146	10.437	10.437	(1.039)	501717	241.542	48.308
84	1,2-Dibromo-3-chloropropane	157	11.210	11.207	(1.116)	46011	270.359	54.072
85	1,2,4-Trichlorobenzene	180	12.025	12.031	(1.197)	306480	261.438	52.288
86	Hexachlorobutadiene	225	12.183	12.183	(1.213)	140619	249.390	49.878
87	Naphthalene	128	12.287	12.293	(1.224)	758381	251.512	50.302
88	1,2,3-Trichlorobenzene	180	12.548	12.542	(1.250)	276854	242.827	48.565
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	2.851	2.846	(0.537)	240851	270.835	54.167
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.007	4.002	(0.755)	217008	266.420	53.284
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	4.980	4.981	(0.635)	610788	13759.5	2751.9(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	4.853	4.846	(0.914)	501388	216.593	43.319
143	Methyl Acetate	43	3.356	3.356	(0.632)	287042	240.196	48.039
144	Methylcyclohexane	83	5.747	5.747	(1.082)	420943	261.176	52.235
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
103	Cyclohexanone	55	8.886	8.893	(0.885)	84282	350.409	70.082(R)
155	tert-Butyl Ethyl ether	59	Compound Not Detected.					
156	tert-Amyl Methyl ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbenzene	105	10.103	10.104	(1.006)	968378	279.240	55.848(A)
146	2-Methylnaphthalene	142	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82643.D
Report Date: 26-Feb-2010 23:22

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82643.D
Lab Smp Id: CHECK/ICV
Inj Date : 26-FEB-2010 22:06
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : CHECK/ICV
Misc Info : M00226A-IC,8260SUX8,,402279,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Meth Date : 26-Feb-2010 23:14 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40 Cal File: UX82639.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPGCV909

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82643.D
Report Date: 26-Feb-2010 23:22

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82643.D
Lab Smp Id: CHECK/ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Misc Info: M00226A-IC,8260SUX8,,402279,3

Calibration Date: 26-FEB-2010
Calibration Time: 18:53
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1019892	509946	2039784	1006533	-1.31
2 Chlorobenzene-d5	818266	409133	1636532	808042	-1.25
3 1,4-Dichlorobenze	423007	211504	846014	412229	-2.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.10
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82643.D
Report Date: 26-Feb-2010 23:22

TestAmerica North Canton

RECOVERY REPORT

Client Name:
Client SDG: SDGa00699
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: CHECK/ICV
Level: LOW
Operator: 402279
Data Type: MS DATA
SampleType: METHSPIKE
SpikeList File: DODICV.spk
Quant Type: ISTD
Sublist File: 4-8260+IX.sub
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\8260SUX8.m
Misc Info: M00226A-IC,8260SUX8,,402279,3

SPIKE		COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
*	1	Fluorobenzene	0.0000	50.000	0.00	0-0
*	2	Chlorobenzene-d5	0.0000	50.000	0.00	0-0
*	3	1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$	6	Toluene-d8	50.000	46.741	93.48	85-115
$	7	Bromofluorobenzene	50.000	44.721	89.44	85-120
	60	1,1,1,2-Tetrachlor	50.000	53.484	106.97	75-125
	37	1,1,1-Trichloroeth	50.000	54.316	108.63	75-125
	68	1,1,2,2-Tetrachlor	50.000	52.820	105.64	75-125
	53	1,1,2-Trichloroeth	50.000	47.839	95.68	75-125
	28	1,1-Dichloroethane	50.000	51.883	103.77	75-125
	17	1,1-Dichloroethene	50.000	57.112	114.22	75-125
	38	1,1-Dichloropropen	50.000	54.614	109.23	75-125
	88	1,2,3-Trichloroben	50.000	48.565	97.13	75-125
	70	1,2,3-Trichloropro	50.000	53.457	106.91	75-125
	85	1,2,4-Trichloroben	50.000	52.288	104.58	75-125
	77	1,2,4-Trimethylben	50.000	56.912	113.82	75-125
	84	1,2-Dibromo-3-chlo	50.000	54.072	108.14	75-125
	58	1,2-Dibromoethane	50.000	50.967	101.93	75-125
	83	1,2-Dichlorobenzen	50.000	48.308	96.62	75-125
	40	1,2-Dichloroethane	50.000	48.979	97.96	75-125
	43	1,2-Dichloropropan	50.000	51.552	103.10	75-125
	74	1,3,5-Trimethylben	50.000	56.414	112.83	75-125
	80	1,3-Dichlorobenzen	50.000	50.176	100.35	75-125
	54	1,3-Dichloropropan	50.000	48.894	97.79	75-125
	81	1,4-Dichlorobenzen	50.000	49.279	98.56	75-125
	33	2,2-Dichloropropan	50.000	54.161	108.32	75-125
	30	2-Butanone	50.000	48.056	96.11	75-125
	73	2-Chlorotoluene	50.000	52.693	105.39	75-125
	56	2-Hexanone	50.000	54.436	108.87	75-125
	75	4-Chlorotoluene	50.000	52.425	104.85	75-125
	49	4-Methyl-2-pentano	50.000	53.016	106.03	75-125
	16	Acetone	50.000	62.120	124.24	75-125
	41	Benzene	50.000	50.654	101.31	75-125
	71	Bromobenzene	50.000	49.726	99.45	75-125
	34	Bromochloromethane	50.000	50.316	100.63	75-125
	46	Bromodichlorometha	50.000	53.857	107.71	75-125
	66	Bromoform	50.000	52.717	105.43	75-125
	11	Bromomethane	50.000	50.962	101.92	75-125
	20	Carbon Disulfide	50.000	58.683	117.37	75-125
	39	Carbon Tetrachlori	50.000	57.957	115.91	75-125

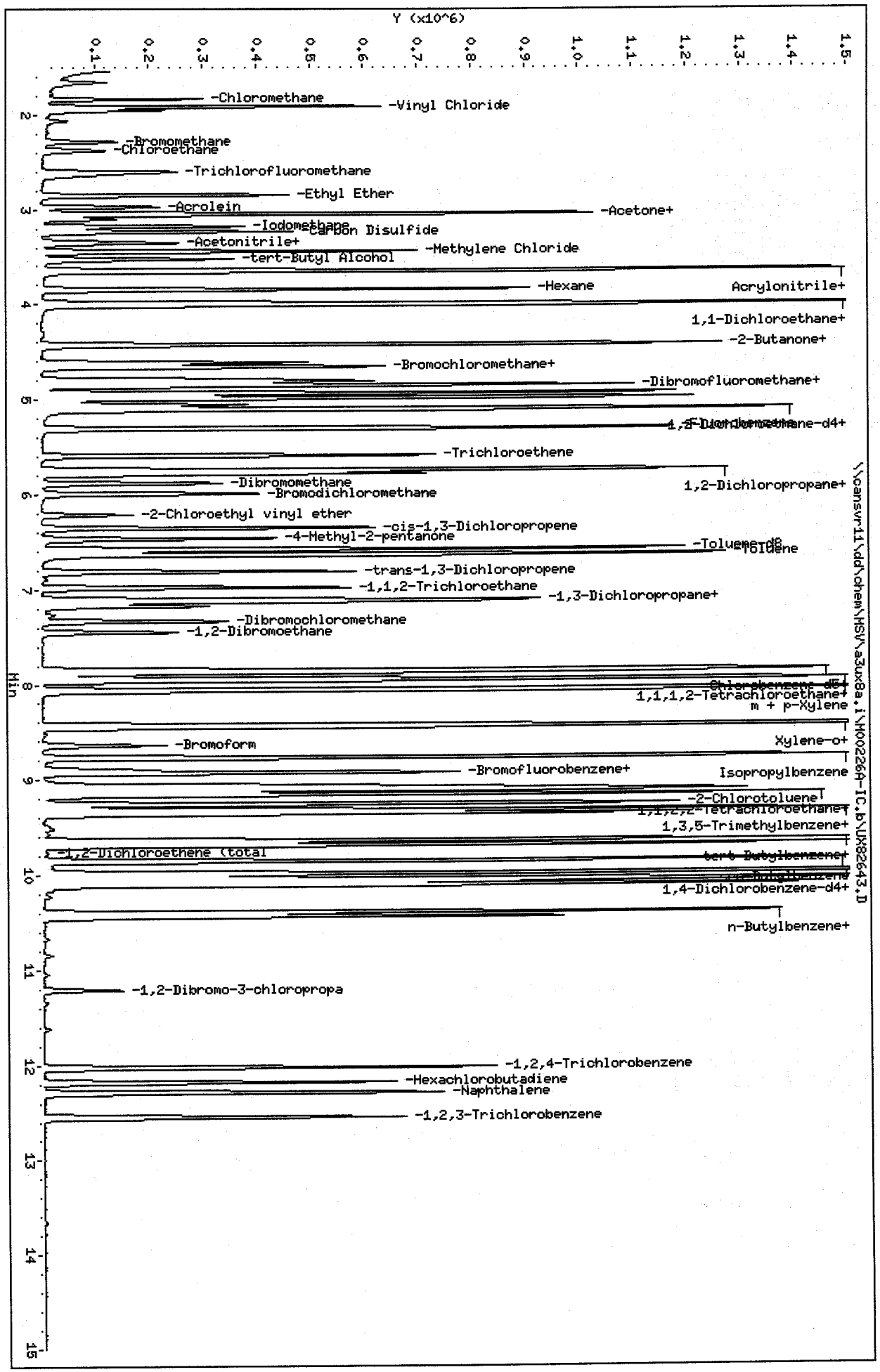
Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82643.D
Report Date: 26-Feb-2010 23:22

SPIKE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
59	Chlorobenzene	50.000	49.839	99.68	75-125
57	Dibromochlorometha	50.000	49.699	99.40	75-125
12	Chloroethane	50.000	55.479	110.96	75-125
35	Chloroform	50.000	50.737	101.47	75-125
9	Chloromethane	50.000	44.370	88.74	75-125
32	cis-1,2-dichloroet	50.000	50.806	101.61	75-125
48	cis-1,3-Dichloropr	50.000	51.725	103.45	75-125
45	Dibromomethane	50.000	51.203	102.41	75-125
8	Dichlorodifluorome	50.000	35.193	70.39*	75-125
61	Ethylbenzene	50.000	53.130	106.26	75-125
86	Hexachlorobutadien	50.000	49.878	99.76	75-125
67	Isopropylbenzene	50.000	55.273	110.55	75-125
62	m + p-Xylene	100.00	105.69	105.69	75-125
21	Methylene Chloride	50.000	48.094	96.19	75-125
87	Naphthalene	50.000	50.302	100.60	75-125
82	n-Butylbenzene	50.000	56.318	112.64	75-125
72	n-Propylbenzene	50.000	55.945	111.89	75-125
64	Xylene-o	50.000	53.715	107.43	75-125
79	4-Isopropyltoluene	50.000	57.441	114.88	75-125
78	sec-Butylbenzene	50.000	55.603	111.21	75-125
65	Styrene	50.000	53.608	107.22	75-125
76	tert-Butylbenzene	50.000	54.426	108.85	75-125
55	Tetrachloroethene	50.000	52.663	105.33	75-125
50	Toluene	50.000	45.715	91.43	75-125
25	trans-1,2-Dichloro	50.000	53.744	107.49	75-125
51	trans-1,3-Dichloro	50.000	53.833	107.67	75-125
42	Trichloroethene	50.000	50.051	100.10	75-125
13	Trichlorofluoromet	50.000	60.716	121.43	75-125
10	Vinyl Chloride	50.000	48.445	96.89	75-125
19	Iodomethane	50.000	54.372	108.74	75-125
92	Isopropyl Ether	50.000	53.284	106.57	75-125
24	Methyl tert-butyl	50.000	46.368	92.74	75-125
153	Vinyl Acetate-86	50.000	0.0000	*	75-125
18	Freon-113	50.000	61.321	122.64	75-125
26	Hexane	50.000	58.778	117.56	75-125
22	Acetonitrile	150.00	136.89	91.26	75-125
23	Acrylonitrile	150.00	150.27	100.18	75-125
15	Acrolein	150.00	165.87	110.58	75-125
29	tert-Butyl Alcohol	1000.0	833.49	83.35	75-125
36	Tetrahydrofuran	50.000	45.801	91.60	75-125
69	1,4-Dichloro-2-but	100.00	117.85	117.85	75-125
89	Ethyl Ether	50.000	54.167	108.33	75-125
97	Isobutanol	2500.0	2751.9	110.08	75-125
98	Cyclohexane	50.000	43.319	86.64	75-125
143	Methyl Acetate	50.000	48.039	96.08	75-125
144	Methylcyclohexane	50.000	52.235	104.47	75-125
103	Cyclohexanone	100.00	70.082	70.08*	75-125
157	1,2,3-Trimethylben	50.000	55.848	111.70	75-125

SURROGATE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4	Dibromofluorometha	50.000	45.315	90.63	59-138

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82643.D
Report Date: 26-Feb-2010 23:22

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	50.000	44.206	88.41	61-130
$ 6 Toluene-d8	250.00	46.741	93.48	60-143
$ 7 Bromofluorobenzene	250.00	44.721	89.44	47-158



Data File: \\cansvr11\dd\chem\HSV\a3ux8a.i\H00226A-IC.b\UX82643.D
Date : 26-FEB-2010 22:06
Client ID:
Sample Info: CHECK/ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18

\\cansvr11\dd\chem\HSV\a3ux8a.i\H00226A-IC.b\UX82643.D

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Start Cal Date: 01-DEC-2009 21:19
End Cal Date : 26-FEB-2010 20:40
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
26-FEB-2010 20:40	1-8260	\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82639.D
Cal Level: 2 , Cal Amount: 10.00000		
26-FEB-2010 20:19	1-8260	\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82638.D
Cal Level: 3 , Cal Amount: 25.00000		
14-DEC-2009 21:42	BENZCL	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81431.D
02-DEC-2009 02:01	3-IX+	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81311.D
26-FEB-2010 19:57	1-8260	\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82637.D
Cal Level: 4 , Cal Amount: 50.00000		
14-DEC-2009 21:20	BENZCL	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81430.D
02-DEC-2009 01:39	3-IX+	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81310.D
26-FEB-2010 19:36	1-8260	\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82636.D
Cal Level: 5 , Cal Amount: 100.00000		
14-DEC-2009 20:58	BENZCL	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81429.D
02-DEC-2009 01:17	3-IX+	\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81309.D
26-FEB-2010 19:15	1-8260	\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82635.D
Cal Level: 6 , Cal Amount: 250.00000		
14-DEC-2009 20:35	BENZCL	

\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81428.D		
02-DEC-2009 00:55	3-IX+	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81308.D		
26-FEB-2010 18:53	1-8260	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82634.D		

Cal Level: 7 , Cal Amount: 500.00000		
14-DEC-2009 20:13	BENZCL	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81427.D		
02-DEC-2009 00:34	3-IX+	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81307.D		
26-FEB-2010 18:32	1-8260	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\UX82633.D		

Cal Level: 8 , Cal Amount: 1000.00000		
14-DEC-2009 19:51	BENZCL	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M91214A-IC.b\UX81426.D		
02-DEC-2009 00:12	3-IX+	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M91201A-IC.b\UX81306.D		
26-FEB-2010 18:11	1-8260	
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Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

05-MAR-2010 20:44	1-8260	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82737.D		
05-MAR-2010 21:05	3-IX	
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82738.D		

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82737.D
Report Date: 05-Mar-2010 21:26

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux8a.i Injection Date: 05-MAR-2010 20:44
Lab File ID: UX82737.D Init. Cal. Date(s): 01-DEC-2009 26-FEB-2010
Analysis Type: SOIL Init. Cal. Times: 21:19 20:40
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.20894	0.19088	0.19088	0.010	8.64137	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	250	225	0.23734	0.010	9.80190	0.000e+000	Wt Linear	
$ 6 Toluene-d8	0.84933	0.78766	0.78766	0.010	7.26063	50.00000	Averaged	
$ 7 Bromofluorobenzene	250	223	0.36279	0.010	10.93469	0.000e+000	Wt Linear	
8 Dichlorodifluoromethane	0.16267	0.13651	0.13651	0.010	16.08106	50.00000	Averaged	
9 Chloromethane	0.28454	0.25739	0.25739	0.100	9.54229	50.00000	Averaged	
10 Vinyl Chloride	0.19837	0.18617	0.18617	0.010	6.15368	20.00000	Averaged	
11 Bromomethane	0.09397	0.09202	0.09202	0.010	2.07266	50.00000	Averaged	
12 Chloroethane	0.10551	0.10691	0.10691	0.010	-1.33433	50.00000	Averaged	
13 Trichlorofluoromethane	0.20031	0.20628	0.20628	0.010	-2.97765	50.00000	Averaged	
15 Acrolein	0.05214	0.04514	0.04514	0.010	13.42477	50.00000	Averaged	
16 Acetone	500	471	0.11989	0.010	5.73226	0.000e+000	Linear	
17 1,1-Dichloroethene	0.17913	0.16953	0.16953	0.010	5.36001	20.00000	Averaged	
18 Freon-113	0.14630	0.14010	0.14010	0.010	4.23335	50.00000	Averaged	
19 Iodomethane	0.38045	0.36060	0.36060	0.010	5.21630	50.00000	Averaged	
20 Carbon Disulfide	0.50187	0.49185	0.49185	0.010	1.99664	50.00000	Averaged	
21 Methylene Chloride	0.25051	0.23283	0.23283	0.010	7.05788	50.00000	Averaged	
22 Acetonitrile	0.04477	0.04038	0.04038	0.010	9.80103	50.00000	Averaged	
23 Acrylonitrile	0.11751	0.11710	0.11710	0.010	0.34812	50.00000	Averaged	
24 Methyl tert-butyl ether	0.37202	0.36146	0.36146	0.010	2.83876	50.00000	Averaged	
25 trans-1,2-Dichloroethene	0.21246	0.21752	0.21752	0.010	-2.38135	50.00000	Averaged	
26 Hexane	0.04721	0.04908	0.04908	0.010	-3.95729	20.00000	Averaged	
28 1,1-Dichloroethane	0.40571	0.39735	0.39735	0.100	2.06060	50.00000	Averaged	
29 tert-Butyl Alcohol	0.01894	0.01670	0.01670	0.010	11.81401	50.00000	Averaged	
30 2-Butanone	0.20219	0.17823	0.17823	0.010	11.84927	50.00000	Averaged	
M 31 1,2-Dichloroethene (total)	0.22894	0.22830	0.22830	0.010	0.27942	50.00000	Averaged	
32 cis-1,2-dichloroethene	0.24541	0.23908	0.23908	0.010	2.58293	50.00000	Averaged	
33 2,2-Dichloropropane	0.20213	0.19754	0.19754	0.010	2.27291	50.00000	Averaged	
34 Bromochloromethane	0.12802	0.13113	0.13113	0.010	-2.43505	50.00000	Averaged	
35 Chloroform	0.35916	0.35963	0.35963	0.010	-0.13059	20.00000	Averaged	
36 Tetrahydrofuran	0.12305	0.11290	0.11290	0.010	8.24903	50.00000	Averaged	
37 1,1,1-Trichloroethane	0.30332	0.30288	0.30288	0.010	0.14531	50.00000	Averaged	
38 1,1-Dichloropropene	0.24583	0.26229	0.26229	0.010	-6.69569	50.00000	Averaged	
39 Carbon Tetrachloride	0.26465	0.27959	0.27959	0.010	-5.64594	50.00000	Averaged	
40 1,2-Dichloroethane	0.34357	0.33692	0.33692	0.010	1.93482	50.00000	Averaged	
41 Benzene	0.82059	0.81401	0.81401	0.010	0.80278	50.00000	Averaged	
42 Trichloroethene	0.25175	0.24211	0.24211	0.010	3.83095	50.00000	Averaged	
43 1,2-Dichloropropane	0.22629	0.22976	0.22976	0.010	-1.53366	20.00000	Averaged	
44 1,4-Dioxane	0.00211	0.00195	0.00195	0.010	7.82428	50.00000	Averaged	<-
45 Dibromomethane	0.12497	0.12641	0.12641	0.010	-1.15207	50.00000	Averaged	
46 Bromodichloromethane	0.23112	0.24897	0.24897	0.010	-7.72390	50.00000	Averaged	
47 2-Chloroethyl vinyl ether	0.06874	0.05105	0.05105	0.010	25.72745	50.00000	Averaged	
48 cis-1,3-Dichloropropene	0.28706	0.29640	0.29640	0.010	-3.25176	50.00000	Averaged	

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Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82737.D
Report Date: 05-Mar-2010 21:26

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux8a.i Injection Date: 05-MAR-2010 20:44
Lab File ID: UX82737.D Init. Cal. Date(s): 01-DEC-2009 26-FEB-2010
Analysis Type: SOIL Init. Cal. Times: 21:19 20:40
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
49 4-Methyl-2-pentanone	0.33417	0.34385	0.34385	0.010	-2.89681	50.00000	Averaged
50 Toluene	1.26918	1.19232	1.19232	0.010	6.05629	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.31896	0.35243	0.35243	0.010	-10.49230	50.00000	Averaged
52 Ethyl Methacrylate	0.33885	0.36974	0.36974	0.010	-9.11432	50.00000	Averaged
53 1,1,2-Trichloroethane	0.24242	0.25408	0.25408	0.010	-4.80977	50.00000	Averaged
54 1,3-Dichloropropane	0.41616	0.41811	0.41811	0.010	-0.46958	50.00000	Averaged
55 Tetrachloroethene	0.23125	0.24035	0.24035	0.010	-3.93734	50.00000	Averaged
56 2-Hexanone	0.29769	0.30491	0.30491	0.010	-2.42398	50.00000	Averaged
57 Dibromochloromethane	0.25647	0.27366	0.27366	0.010	-6.70440	50.00000	Averaged
58 1,2-Dibromoethane	0.24114	0.26036	0.26036	0.010	-7.96656	50.00000	Averaged
59 Chlorobenzene	0.82386	0.83036	0.83036	0.300	-0.78890	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.28020	0.30465	0.30465	0.010	-8.72722	50.00000	Averaged
61 Ethylbenzene	0.42597	0.45095	0.45095	0.010	-5.86512	20.00000	Averaged
62 m + p-Xylene	0.52828	0.55042	0.55042	0.010	-4.19052	50.00000	Averaged
M 63 Xylenes (total)	0.52488	0.54672	0.54672	0.010	-4.16118	50.00000	Averaged
64 Xylene-o	0.51806	0.53931	0.53931	0.010	-4.10135	50.00000	Averaged
65 Styrene	0.79641	0.86763	0.86763	0.010	-8.94334	50.00000	Averaged
66 Bromoform	0.14322	0.14869	0.14869	0.100	-3.81515	50.00000	Averaged
67 Isopropylbenzene	1.28484	1.40373	1.40373	0.010	-9.25315	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	0.53845	0.58014	0.58014	0.300	-7.74238	50.00000	Averaged
69 1,4-Dichloro-2-butene	0.22535	0.23229	0.23229	0.010	-3.07763	50.00000	Averaged
70 1,2,3-Trichloropropane	0.19972	0.19450	0.19450	0.010	2.61281	50.00000	Averaged
71 Bromobenzene	0.69048	0.68798	0.68798	0.010	0.36210	50.00000	Averaged
72 n-Propylbenzene	0.70834	0.74483	0.74483	0.010	-5.15115	50.00000	Averaged
73 2-Chlorotoluene	0.64993	0.65372	0.65372	0.010	-0.58180	50.00000	Averaged
74 1,3,5-Trimethylbenzene	2.03751	2.20563	2.20563	0.010	-8.25091	50.00000	Averaged
75 4-Chlorotoluene	0.66721	0.68900	0.68900	0.010	-3.26626	50.00000	Averaged
76 tert-Butylbenzene	1.86570	1.98000	1.98000	0.010	-6.12627	50.00000	Averaged
77 1,2,4-Trimethylbenzene	2.06218	2.23973	2.23973	0.010	-8.61005	50.00000	Averaged
78 sec-Butylbenzene	2.53765	2.74779	2.74779	0.010	-8.28117	50.00000	Averaged
79 4-Isopropyltoluene	2.14561	2.32165	2.32165	0.010	-8.20460	50.00000	Averaged
80 1,3-Dichlorobenzene	1.30001	1.30554	1.30554	0.010	-0.42566	50.00000	Averaged
81 1,4-Dichlorobenzene	1.35663	1.33300	1.33300	0.010	1.74163	50.00000	Averaged
82 n-Butylbenzene	1.72162	1.87408	1.87408	0.010	-8.85580	50.00000	Averaged
83 1,2-Dichlorobenzene	1.25970	1.23304	1.23304	0.010	2.11629	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	0.10321	0.10371	0.10371	0.010	-0.48288	50.00000	Averaged
85 1,2,4-Trichlorobenzene	0.71094	0.74389	0.74389	0.010	-4.63415	50.00000	Averaged
86 Hexachlorobutadiene	0.34195	0.35420	0.35420	0.010	-3.58145	50.00000	Averaged
87 Naphthalene	1.82865	1.88026	1.88026	0.010	-2.82258	50.00000	Averaged
88 1,2,3-Trichlorobenzene	0.69144	0.69216	0.69216	0.010	-0.10446	50.00000	Averaged
98 Cyclohexane	0.57496	0.49058	0.49058	0.010	14.67667	50.00000	Averaged
143 Methyl Acetate	0.29682	0.29311	0.29311	0.010	1.25043	50.00000	Averaged
144 Methylcyclohexane	0.40032	0.40607	0.40607	0.010	-1.43667	50.00000	Averaged

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Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82737.D
Report Date: 05-Mar-2010 21:26

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux8a.i Injection Date: 05-MAR-2010 20:44
Lab File ID: UX82737.D Init. Cal. Date(s): 01-DEC-2009 26-FEB-2010
Analysis Type: SOIL Init. Cal. Times: 21:19 20:40
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
141 1,3,5-Trichlorobenzene	0.81065	0.83451	0.83451	0.010	-2.94378	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82737.D
Report Date: 05-Mar-2010 21:26

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82737.D
Lab Smp Id: 250NG-CC
Inj Date : 05-MAR-2010 20:44
Operator : 402279   Inst ID: a3ux8a.i
Smp Info : 250NG-CC
Misc Info : M00305B,8260SUX8,1-8260.SUB,402279,2
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Meth Date : 05-Mar-2010 21:26 a3ux8a.i   Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40   Cal File: UX82639.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 Fluorobenzene	96	5.304	5.304	(1.000)	1124023	250.000	
*	2 Chlorobenzene-d5	117	7.847	7.847	(1.000)	872734	250.000	
*	3 1,4-Dichlorobenzene-d4	152	10.037	10.037	(1.000)	452625	250.000	
$	4 Dibromofluoromethane	113	4.787	4.787	(0.903)	214557	250.000	228.40
$	5 1,2-Dichloroethane-d4	65	5.055	5.055	(0.953)	266781	250.000	225.50
$	6 Toluene-d8	98	6.582	6.582	(1.241)	885350	250.000	231.85
$	7 Bromofluorobenzene	95	8.924	8.924	(1.137)	316619	250.000	222.66
	8 Dichlorodifluoromethane	85	1.654	1.654	(0.312)	153441	250.000	209.80
	9 Chloromethane	50	1.831	1.831	(0.345)	289312	250.000	226.14
	10 Vinyl Chloride	62	1.952	1.952	(0.368)	209256	250.000	234.62
	11 Bromomethane	94	2.275	2.275	(0.429)	103435	250.000	244.82
	12 Chloroethane	64	2.372	2.372	(0.447)	120174	250.000	253.34
	13 Trichlorofluoromethane	101	2.597	2.597	(0.490)	231862	250.000	257.44
	15 Acrolein	56	2.968	2.968	(0.560)	507381	2500.00	2164.4
	16 Acetone	43	3.096	3.096	(0.584)	269529	500.000	471.34
	17 1,1-Dichloroethene	96	3.041	3.041	(0.573)	190552	250.000	236.60
	18 Freon-113	151	3.041	3.041	(0.573)	157479	250.000	239.42
	19 Iodomethane	142	3.175	3.175	(0.599)	405325	250.000	236.96
	20 Carbon Disulfide	76	3.230	3.230	(0.609)	552847	250.000	245.01

21	Methylene Chloride	84	3.437	3.437 (0.648)	261703	250.000	232.36
22	Acetonitrile	41	3.333	3.333 (0.628)	453899	2500.00	2255.0
23	Acrylonitrile	53	3.637	3.637 (0.686)	263255	500.000	498.26

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Report Date: 05-Mar-2010 21:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.643	3.643	(0.687)	406288	250.000	242.90
25 trans-1,2-Dichloroethene	96	3.649	3.649	(0.688)	244502	250.000	255.95
26 Hexane	86	3.844	3.844	(0.725)	55163	250.000	259.89
28 1,1-Dichloroethane	63	3.978	3.978	(0.750)	446627	250.000	244.85
29 tert-Butyl Alcohol	59	3.522	3.522	(0.664)	375498	5000.00	4409.3
30 2-Butanone	43	4.428	4.428	(0.835)	400677	500.000	440.75
32 cis-1,2-dichloroethene	96	4.422	4.422	(0.834)	268727	250.000	243.54
33 2,2-Dichloropropane	77	4.422	4.422	(0.834)	222040	250.000	244.32
34 Bromochloromethane	128	4.611	4.611	(0.869)	147398	250.000	256.09
35 Chloroform	83	4.659	4.659	(0.878)	404236	250.000	250.33
36 Tetrahydrofuran	42	4.641	4.641	(0.875)	126903	250.000	229.38
37 1,1,1-Trichloroethane	97	4.805	4.805	(0.906)	340446	250.000	249.64
38 1,1-Dichloropropene	75	4.927	4.927	(0.929)	294820	250.000	266.74
39 Carbon Tetrachloride	117	4.933	4.933	(0.930)	314263	250.000	264.11
40 1,2-Dichloroethane	62	5.110	5.110	(0.963)	378707	250.000	245.16
41 Benzene	78	5.097	5.097	(0.961)	914962	250.000	247.99
42 Trichloroethene	130	5.590	5.590	(1.054)	272133	250.000	240.42
43 1,2-Dichloropropane	63	5.779	5.779	(1.089)	258257	250.000	253.83
44 1,4-Dioxane	88	5.882	5.882	(1.109)	109488	12500.0	11522
45 Dibromomethane	93	5.876	5.876	(1.108)	142090	250.000	252.88
46 Bromodichloromethane	83	5.992	5.992	(1.130)	279852	250.000	269.31
47 2-Chloroethyl vinyl ether	63	6.217	6.217	(1.172)	114772	500.000	371.36
48 cis-1,3-Dichloropropene	75	6.351	6.351	(1.197)	333155	250.000	258.13
49 4-Methyl-2-pentanone	43	6.466	6.466	(1.219)	772995	500.000	514.48
50 Toluene	91	6.636	6.636	(0.846)	1040577	250.000	234.86
51 trans-1,3-Dichloropropene	75	6.813	6.813	(0.868)	307574	250.000	276.23
52 Ethyl Methacrylate	69	6.855	6.855	(0.874)	322681	250.000	272.78
53 1,1,2-Trichloroethane	97	6.977	6.977	(0.889)	221741	250.000	262.02
54 1,3-Dichloropropane	76	7.129	7.129	(0.909)	364899	250.000	251.17
55 Tetrachloroethene	164	7.105	7.105	(0.905)	209762	250.000	259.84
56 2-Hexanone	43	7.172	7.172	(0.914)	532206	500.000	512.12
57 Dibromochloromethane	129	7.330	7.330	(0.934)	238835	250.000	266.76
58 1,2-Dibromoethane	107	7.446	7.446	(0.949)	227221	250.000	269.92
59 Chlorobenzene	112	7.871	7.871	(1.003)	724684	250.000	251.97
60 1,1,1,2-Tetrachloroethane	131	7.938	7.938	(1.012)	265878	250.000	271.82
61 Ethylbenzene	106	7.957	7.957	(1.014)	393562	250.000	264.66
62 m + p-Xylene	106	8.054	8.054	(1.026)	960744	500.000	520.95
64 Xylene-o	106	8.425	8.425	(1.074)	470672	250.000	260.25
65 Styrene	104	8.443	8.443	(1.076)	757212	250.000	272.36
66 Bromoform	173	8.638	8.638	(1.101)	129765	250.000	259.54
67 Isopropylbenzene	105	8.766	8.766	(1.117)	1225084	250.000	273.13
68 1,1,2,2-Tetrachloroethane	83	9.052	9.052	(0.902)	262586	250.000	269.36
69 1,4-Dichloro-2-butene	53	9.106	9.106	(0.907)	105138	250.000	257.69
70 1,2,3-Trichloropropane	110	9.106	9.106	(0.907)	88036	250.000	243.47
71 Bromobenzene	156	9.082	9.082	(0.905)	311395	250.000	249.09
72 n-Propylbenzene	120	9.155	9.155	(0.912)	337129	250.000	262.88
73 2-Chlorotoluene	126	9.252	9.252	(0.922)	295888	250.000	251.45
74 1,3,5-Trimethylbenzene	105	9.319	9.319	(0.928)	998322	250.000	270.63
75 4-Chlorotoluene	126	9.356	9.356	(0.932)	311858	250.000	258.16
76 tert-Butylbenzene	119	9.636	9.636	(0.960)	896197	250.000	265.32
77 1,2,4-Trimethylbenzene	105	9.684	9.684	(0.965)	1013759	250.000	271.52
78 sec-Butylbenzene	105	9.849	9.849	(0.981)	1243720	250.000	270.70

79	4-Isopropyltoluene	119	9.988	9.988 (0.995)	1050836	250.000	270.51
80	1,3-Dichlorobenzene	146	9.976	9.976 (0.994)	590920	250.000	251.06

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82737.D
Report Date: 05-Mar-2010 21:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	10.061	10.061	(1.002)	603350	250.000	245.64
82	n-Butylbenzene	91	10.390	10.390	(1.035)	848256	250.000	272.14
83	1,2-Dichlorobenzene	146	10.433	10.433	(1.039)	558105	250.000	244.71
84	1,2-Dibromo-3-chloropropane	157	11.211	11.211	(1.117)	46941	250.000	251.21
85	1,2,4-Trichlorobenzene	180	12.020	12.020	(1.198)	336703	250.000	261.58
86	Hexachlorobutadiene	225	12.185	12.185	(1.214)	160320	250.000	258.95
87	Naphthalene	128	12.288	12.288	(1.224)	851053	250.000	257.06
88	1,2,3-Trichlorobenzene	180	12.550	12.550	(1.250)	313290	250.000	250.26
98	Cyclohexane	56	4.848	4.848	(0.914)	551422	250.000	213.31
143	Methyl Acetate	43	3.351	3.351	(0.632)	658920	500.000	493.75
144	Methylcyclohexane	83	5.742	5.742	(1.083)	456428	250.000	253.59
141	1,3,5-Trichlorobenzene	180	11.406	11.406	(1.136)	377721	250.000	257.36

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82737.D
Report Date: 05-Mar-2010 21:26

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

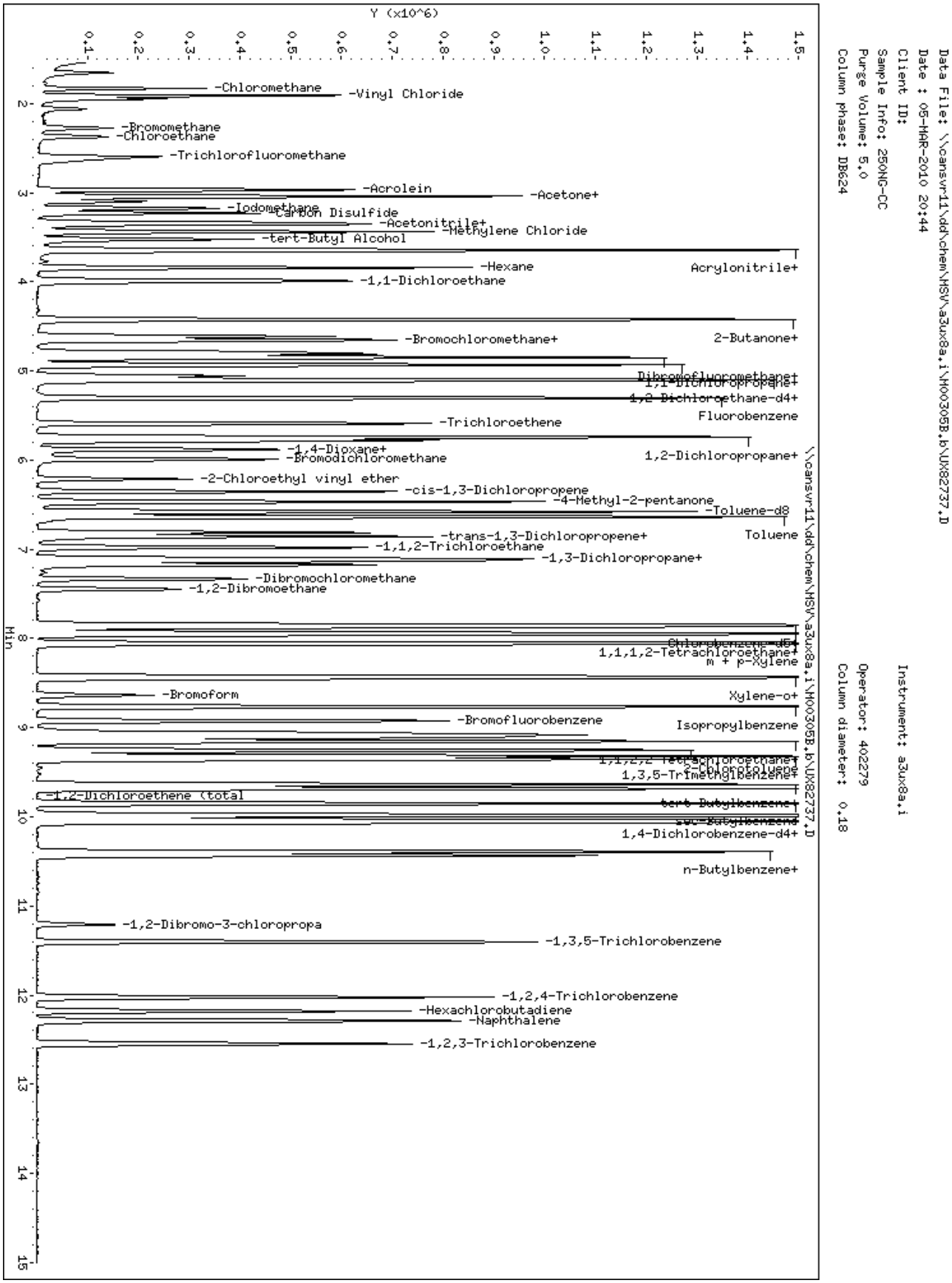
Instrument ID: a3ux8a.i
Lab File ID: UX82737.D
Lab Smp Id: 250NG-CC
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279,2

Calibration Date: 05-MAR-2010
Calibration Time: 21:05
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1056577	528289	2113154	1124023	6.38
2 Chlorobenzene-d5	839200	419600	1678400	872734	4.00
3 1,4-Dichlorobenze	434091	217046	868182	452625	4.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.30	0.01
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	0.00
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
Min
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82737.D
Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82737.D
Date : 05-MAR-2010 20:44
Client ID:
Sample Info: 25ONC-CC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
Acrylonitrile+
-1,1-Dichloroethane
-Bromochloromethane+
2-Butanone+
Dibromofluoromethane+
1,1-Dichloropropene+
1,2-Dichloroethane-d4+
Fluorobenzene
-Trichloroethene
-1,4-Dioxane+
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
Toluene
-trans-1,3-Dichloropropene+
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
-Bromofluorobenzene
Isopropylbenzene
1,1,2,2-Tetrachloroethane+
2-Chlorotoluene
1,3,5-Trimethylbenzene+
-1,2-Dichloroethene (total
tert-Butylbenzene+
sec-Butylbenzene
1,4-Dichlorobenzene-d4+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82739.D
Report Date: 05-Mar-2010 23:35

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00699
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 402279
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279,3

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
*	1 Fluorobenzene	0.0000	50.000	0.00	0-0
*	2 Chlorobenzene-d5	0.0000	50.000	0.00	0-0
*	3 1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$	6 Toluene-d8	50.000	44.739	89.48	50-150
$	7 Bromofluorobenzene	50.000	45.175	90.35	50-150
	60 1,1,1,2-Tetrachlor	5.000	5.034	100.69	70-130
	37 1,1,1-Trichloroeth	5.000	5.094	101.87	70-130
	68 1,1,2,2-Tetrachlor	5.000	5.728	114.55	70-130
	53 1,1,2-Trichloroeth	5.000	5.360	107.20	70-130
	28 1,1-Dichloroethane	5.000	5.158	103.16	70-130
	17 1,1-Dichloroethene	5.000	5.240	104.81	70-130
	38 1,1-Dichloropropen	5.000	5.426	108.52	70-130
	88 1,2,3-Trichloroben	5.000	5.111	102.22	70-130
	70 1,2,3-Trichloropro	5.000	5.273	105.46	70-130
	85 1,2,4-Trichloroben	5.000	5.082	101.63	70-130
	77 1,2,4-Trimethylben	5.000	4.983	99.65	70-130
	84 1,2-Dibromo-3-chlo	5.000	4.077	81.53	70-130
	58 1,2-Dibromoethane	5.000	5.131	102.61	70-130
	83 1,2-Dichlorobenzen	5.000	4.959	99.19	70-130
	40 1,2-Dichloroethane	5.000	5.470	109.40	70-130
	43 1,2-Dichloropropan	5.000	5.063	101.26	70-130
	74 1,3,5-Trimethylben	5.000	4.953	99.06	70-130
	80 1,3-Dichlorobenzen	5.000	5.466	109.32	70-130
	54 1,3-Dichloropropan	5.000	5.113	102.26	70-130
	81 1,4-Dichlorobenzen	5.000	5.222	104.45	70-130
	33 2,2-Dichloropropan	5.000	4.739	94.78	70-130
	30 2-Butanone	10.000	9.070	90.70	70-130
	73 2-Chlorotoluene	5.000	5.277	105.55	70-130
	56 2-Hexanone	10.000	8.067	80.67	70-130
	75 4-Chlorotoluene	5.000	5.305	106.09	70-130
	49 4-Methyl-2-pentano	10.000	8.476	84.76	70-130
	16 Acetone	10.000	8.239	82.39	70-130
	41 Benzene	5.000	5.317	106.35	70-130
	71 Bromobenzene	5.000	5.334	106.68	70-130
	34 Bromochloromethane	5.000	5.242	104.85	70-130
	46 Bromodichlorometha	5.000	4.762	95.25	70-130
	66 Bromoform	5.000	4.426	88.52	70-130
	11 Bromomethane	5.000	6.445	128.91	70-130

20 Carbon Disulfide	5.000	4.678	93.57	70-130
39 Carbon Tetrachlori	5.000	5.106	102.12	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82739.D
Report Date: 05-Mar-2010 23:35

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	59 Chlorobenzene	5.000	5.282	105.65	70-130
	57 Dibromochlorometha	5.000	4.412	88.25	70-130
	12 Chloroethane	5.000	5.964	119.28	70-130
	35 Chloroform	5.000	5.177	103.54	70-130
	9 Chloromethane	5.000	5.519	110.37	70-130
	32 cis-1,2-dichloroet	5.000	5.130	102.60	70-130
	48 cis-1,3-Dichloropr	5.000	4.284	85.68	70-130
	45 Dibromomethane	5.000	4.939	98.78	70-130
	8 Dichlorodifluorome	5.000	4.905	98.11	70-130
	61 Ethylbenzene	5.000	5.327	106.54	70-130
	86 Hexachlorobutadien	5.000	5.137	102.74	70-130
	67 Isopropylbenzene	5.000	5.094	101.87	70-130
	62 m + p-Xylene	10.000	10.589	105.89	70-130
	21 Methylene Chloride	5.000	7.244	144.88*	70-130
	87 Naphthalene	5.000	4.234	84.69	70-130
	82 n-Butylbenzene	5.000	4.655	93.10	70-130
	72 n-Propylbenzene	5.000	4.837	96.74	70-130
	64 Xylene-o	5.000	5.180	103.61	70-130
	79 4-Isopropyltoluene	5.000	4.799	95.99	70-130
	78 sec-Butylbenzene	5.000	4.877	97.54	70-130
	65 Styrene	5.000	4.840	96.81	70-130
	76 tert-Butylbenzene	5.000	4.754	95.08	70-130
	55 Tetrachloroethene	5.000	5.380	107.60	70-130
	50 Toluene	5.000	5.317	106.34	70-130
	25 trans-1,2-Dichloro	5.000	5.227	104.54	70-130
	51 trans-1,3-Dichloro	5.000	4.234	84.68	70-130
	42 Trichloroethene	5.000	5.220	104.40	70-130
	13 Trichlorofluoromet	5.000	6.212	124.25	70-130
	10 Vinyl Chloride	5.000	5.376	107.52	70-130
	19 Iodomethane	5.000	5.234	104.69	70-130
	24 Methyl tert-butyl	5.000	5.335	106.70	70-130
	15 Acrolein	50.000	42.738	85.48	70-130
	18 Freon-113	5.000	5.290	105.80	70-130
	22 Acetonitrile	50.000	49.399	98.80	70-130
	23 Acrylonitrile	10.000	9.517	95.17	70-130
	26 Hexane	5.000	5.893	117.86	70-130
	29 tert-Butyl Alcohol	100.00	96.907	96.91	70-130
M	31 1,2-Dichloroethene	10.000	10.357	103.57	70-130
	36 Tetrahydrofuran	5.000	4.962	99.24	70-130
	47 2-Chloroethyl viny	10.000	5.679	56.79*	70-130
	44 1,4-Dioxane	250.00	238.60	95.44	70-130
	52 Ethyl Methacrylate	5.000	4.665	93.30	70-130
M	63 Xylenes (total)	15.000	15.770	105.13	70-130
	69 1,4-Dichloro-2-but	5.000	4.723	94.46	70-130
	98 Cyclohexane	5.000	5.161	103.22	70-130
	141 1,3,5-Trichloroben	5.000	5.404	108.07	70-130
	143 Methyl Acetate	10.000	10.458	104.58	70-130
	144 Methylcyclohexane	5.000	5.109	102.18	70-130
	27 Vinyl acetate	5.000	0.0000	*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82739.D
Report Date: 05-Mar-2010 23:35

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00699
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 402279
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279,3

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	50.000	45.205	90.41	59-138
$ 5 1,2-Dichloroethane	50.000	45.549	91.10	61-130
$ 6 Toluene-d8	50.000	44.739	89.48	60-143
$ 7 Bromofluorobenzene	50.000	45.175	90.35	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82739.D
Report Date: 05-Mar-2010 23:35

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82739.D
Lab Smp Id: QCMRL
Inj Date : 05-MAR-2010 21:27
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : QCMRL
Misc Info : M00305B,8260SUX8,1-8260.SUB,402279,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Meth Date : 05-Mar-2010 21:26 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40 Cal File: UX82639.D
Als bottle: 4 QC Sample: MRL
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	5.303	5.304	(1.000)	1098107	250.000	
* 2 Chlorobenzene-d5	117	7.846	7.847	(1.000)	847096	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.037	(1.000)	449194	250.000	
$ 4 Dibromofluoromethane	113	4.786	4.787	(0.903)	207435	226.027	45.205
$ 5 1,2-Dichloroethane-d4	65	5.054	5.055	(0.953)	263193	227.743	45.549
$ 6 Toluene-d8	98	6.581	6.582	(1.241)	834525	223.696	44.739
$ 7 Bromofluorobenzene	95	8.923	8.924	(1.137)	311703	225.877	45.175
8 Dichlorodifluoromethane	85	1.659	1.654	(0.313)	17525	24.5272	4.905
9 Chloromethane	50	1.830	1.831	(0.345)	34487	27.5934	5.519
10 Vinyl Chloride	62	1.951	1.952	(0.368)	23422	26.8803	5.376
11 Bromomethane	94	2.280	2.275	(0.430)	13302	32.2273	6.445
12 Chloroethane	64	2.383	2.372	(0.449)	13819	29.8190	5.964
13 Trichlorofluoromethane	101	2.602	2.597	(0.491)	27331	31.0627	6.212
15 Acrolein	56	2.973	2.968	(0.561)	48939	213.690	42.738
16 Acetone	43	3.095	3.096	(0.584)	48519	41.1938	8.239
17 1,1-Dichloroethene	96	3.040	3.041	(0.573)	20616	26.2021	5.240
18 Freon-113	151	3.046	3.041	(0.574)	16996	26.4490	5.290
19 Iodomethane	142	3.180	3.175	(0.600)	43737	26.1728	5.234
20 Carbon Disulfide	76	3.229	3.230	(0.609)	51567	23.3926	4.678

21	Methylene Chloride	84	3.436	3.437 (0.648)	39854	36.2198	7.244(R)
22	Acetonitrile	41	3.332	3.333 (0.628)	48571	246.996	49.399
23	Acrylonitrile	53	3.642	3.637 (0.687)	24563	47.5873	9.517

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.642	3.643	(0.687)	43590	26.6757	5.335
	25 trans-1,2-Dichloroethene	96	3.649	3.649	(0.688)	24391	26.1360	5.227
	26 Hexane	86	3.843	3.844	(0.725)	6110	29.4658	5.893
	28 1,1-Dichloroethane	63	3.977	3.978	(0.750)	45958	25.7896	5.158
	29 tert-Butyl Alcohol	59	3.521	3.522	(0.664)	40312	484.537	96.907
	30 2-Butanone	43	4.433	4.428	(0.836)	40278	45.3524	9.070
M	31 1,2-Dichloroethene (total)	96				52040	51.7852	10.357
	32 cis-1,2-dichloroethene	96	4.427	4.422	(0.835)	27649	25.6492	5.130
	33 2,2-Dichloropropane	77	4.421	4.422	(0.834)	21038	23.6951	4.739
	34 Bromochloromethane	128	4.610	4.611	(0.869)	14739	26.2117	5.242
	35 Chloroform	83	4.658	4.659	(0.878)	40837	25.8855	5.177
	36 Tetrahydrofuran	42	4.646	4.641	(0.876)	13409	24.8088	4.962
	37 1,1,1-Trichloroethane	97	4.810	4.805	(0.907)	33932	25.4683	5.094
	38 1,1-Dichloropropene	75	4.932	4.927	(0.930)	29295	27.1303	5.426
	39 Carbon Tetrachloride	117	4.932	4.933	(0.930)	29676	25.5291	5.106
	40 1,2-Dichloroethane	62	5.115	5.110	(0.964)	41275	27.3507	5.470
	41 Benzene	78	5.102	5.097	(0.962)	95828	26.5864	5.317
	42 Trichloroethene	130	5.595	5.590	(1.055)	28860	26.0988	5.220
	43 1,2-Dichloropropane	63	5.784	5.779	(1.091)	25163	25.3158	5.063
	44 1,4-Dioxane	88	5.881	5.882	(1.109)	11075	1192.98	238.60
	45 Dibromomethane	93	5.875	5.876	(1.108)	13556	24.6952	4.939
	46 Bromodichloromethane	83	5.991	5.992	(1.130)	24174	23.8124	4.762
	47 2-Chloroethyl vinyl ether	63	6.216	6.217	(1.172)	8573	28.3939	5.679(R)
	48 cis-1,3-Dichloropropene	75	6.350	6.351	(1.197)	27008	21.4197	4.284
	49 4-Methyl-2-pentanone	43	6.465	6.466	(1.219)	62204	42.3784	8.476
	50 Toluene	91	6.636	6.636	(0.846)	114328	26.5849	5.317
	51 trans-1,3-Dichloropropene	75	6.812	6.813	(0.868)	22879	21.1694	4.234
	52 Ethyl Methacrylate	69	6.861	6.855	(0.874)	26780	23.3243	4.665
	53 1,1,2-Trichloroethane	97	6.976	6.977	(0.889)	22013	26.7994	5.360
	54 1,3-Dichloropropane	76	7.134	7.129	(0.909)	36050	25.5656	5.113
	55 Tetrachloroethene	164	7.104	7.105	(0.905)	21078	26.9007	5.380
	56 2-Hexanone	43	7.177	7.172	(0.915)	40687	40.3364	8.067
	57 Dibromochloromethane	129	7.335	7.330	(0.935)	19172	22.0618	4.412
	58 1,2-Dibromoethane	107	7.445	7.446	(0.949)	20961	25.6532	5.131
	59 Chlorobenzene	112	7.870	7.871	(1.003)	73733	26.4128	5.282
	60 1,1,1,2-Tetrachloroethane	131	7.937	7.938	(1.012)	23899	25.1724	5.034
	61 Ethylbenzene	106	7.956	7.957	(1.014)	38442	26.6339	5.327
	62 m + p-Xylene	106	8.059	8.054	(1.027)	94776	52.9466	10.589
M	63 Xylenes (total)	106				140245	78.8492	15.770
	64 Xylene-o	106	8.430	8.425	(1.074)	45469	25.9026	5.180
	65 Styrene	104	8.442	8.443	(1.076)	65308	24.2013	4.840
	66 Bromoform	173	8.637	8.638	(1.101)	10740	22.1308	4.426
	67 Isopropylbenzene	105	8.765	8.766	(1.117)	110876	25.4680	5.094
	68 1,1,2,2-Tetrachloroethane	83	9.057	9.052	(0.902)	27707	28.6384	5.728
	69 1,4-Dichloro-2-butene	53	9.105	9.106	(0.907)	9562	23.6156	4.723
	70 1,2,3-Trichloropropane	110	9.105	9.106	(0.907)	9461	26.3647	5.273
	71 Bromobenzene	156	9.081	9.082	(0.904)	33087	26.6695	5.334
	72 n-Propylbenzene	120	9.154	9.155	(0.912)	30780	24.1842	4.837
	73 2-Chlorotoluene	126	9.257	9.252	(0.922)	30814	26.3867	5.277
	74 1,3,5-Trimethylbenzene	105	9.318	9.319	(0.928)	90665	24.7654	4.953
	75 4-Chlorotoluene	126	9.355	9.356	(0.932)	31797	26.5236	5.305
	76 tert-Butylbenzene	119	9.641	9.636	(0.960)	79679	23.7688	4.754

77	1,2,4-Trimethylbenzene	105	9.689	9.684 (0.965)	92311	24.9134	4.983
78	sec-Butylbenzene	105	9.854	9.849 (0.981)	111184	24.3847	4.877

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82739.D
Report Date: 05-Mar-2010 23:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
79	4-Isopropyltoluene	119	9.987	9.988	(0.995)	92511	23.9965	4.799
80	1,3-Dichlorobenzene	146	9.975	9.976	(0.993)	63840	27.3309	5.466
81	1,4-Dichlorobenzene	146	10.060	10.061	(1.002)	63649	26.1118	5.222
82	n-Butylbenzene	91	10.389	10.390	(1.035)	71999	23.2753	4.655
83	1,2-Dichlorobenzene	146	10.438	10.433	(1.039)	56125	24.7968	4.959
84	1,2-Dibromo-3-chloropropane	157	11.216	11.211	(1.117)	3780	20.3834	4.077
85	1,2,4-Trichlorobenzene	180	12.025	12.020	(1.197)	32457	25.4085	5.082
86	Hexachlorobutadiene	225	12.178	12.185	(1.213)	15781	25.6846	5.137
87	Naphthalene	128	12.287	12.288	(1.224)	69564	21.1720	4.234
88	1,2,3-Trichlorobenzene	180	12.549	12.550	(1.250)	31749	25.5553	5.111
98	Cyclohexane	56	4.853	4.848	(0.915)	65169	25.8045	5.161
143	Methyl Acetate	43	3.357	3.351	(0.633)	68174	52.2904	10.458
144	Methylcyclohexane	83	5.741	5.742	(1.083)	44915	25.5438	5.109
141	1,3,5-Trichlorobenzene	180	11.405	11.406	(1.136)	39354	27.0186	5.404

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82739.D
Report Date: 05-Mar-2010 23:35

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

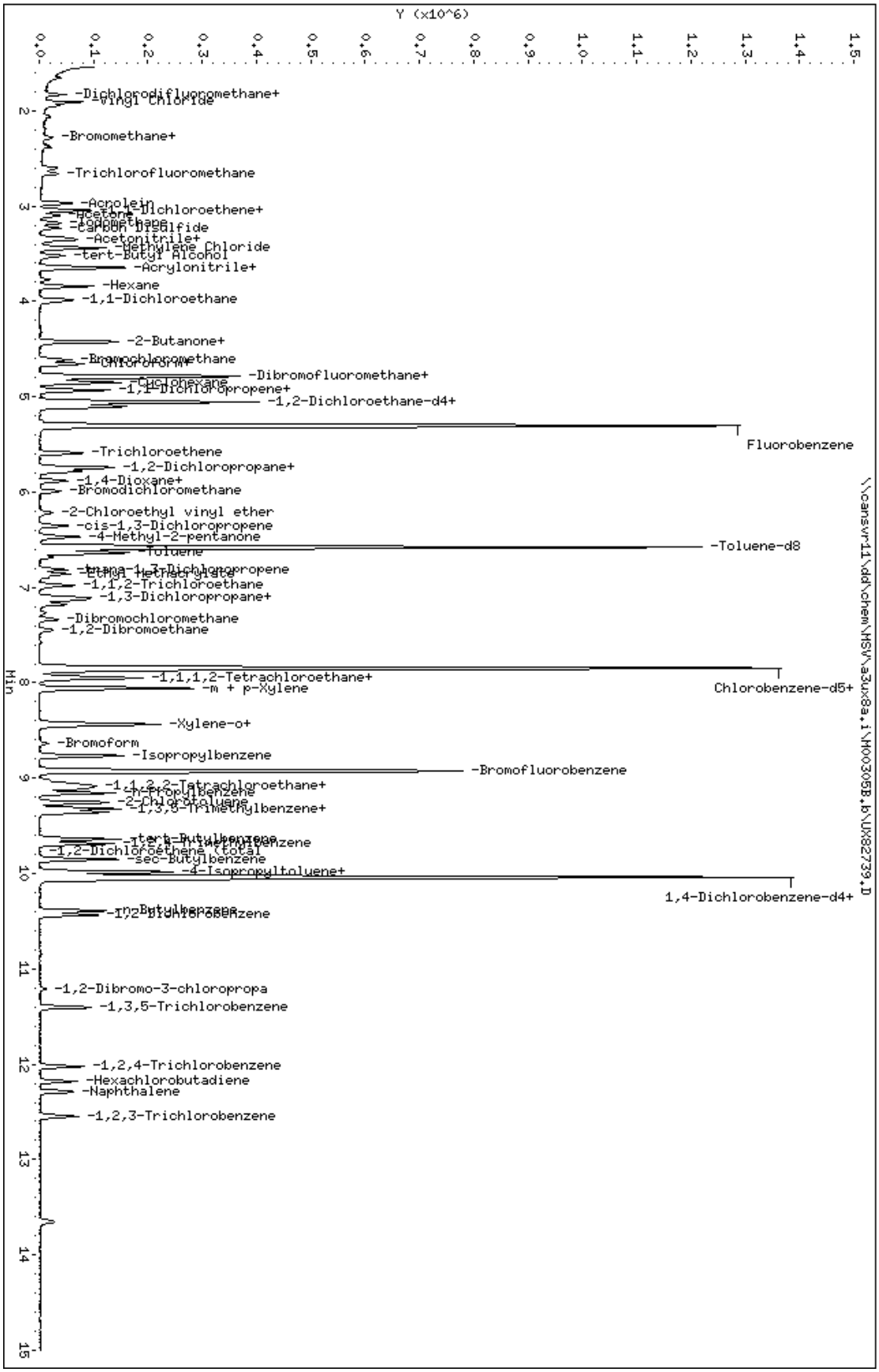
Instrument ID: a3ux8a.i
Lab File ID: UX82739.D
Lab Smp Id: QCMRL
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279,3

Calibration Date: 05-MAR-2010
Calibration Time: 20:44
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1124023	562012	2248046	1098107	-2.31
2 Chlorobenzene-d5	872734	436367	1745468	847096	-2.94
3 1,4-Dichlorobenze	452625	226313	905250	449194	-0.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.30	-0.02
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-Acetone
-Carbon Disulfide
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-2-Butanone+
-Chloroform
-Cyclohexane
-Dibromofluoromethane+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-1,2-Dichloroethene (total)
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82739.D
Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82739.D
Date : 05-MAR-2010 21:27
Client ID:
Sample Info: QCHRL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82759.D
Report Date: 08-Mar-2010 18:23

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00699
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 402279
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279,3

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
*	1 Fluorobenzene	0.0000	50.000	0.00	0-0
*	2 Chlorobenzene-d5	0.0000	50.000	0.00	0-0
*	3 1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$	6 Toluene-d8	50.000	43.758	87.52	50-150
$	7 Bromofluorobenzene	50.000	43.452	86.90	50-150
	60 1,1,1,2-Tetrachlor	5.000	4.351	87.02	70-130
	37 1,1,1-Trichloroeth	5.000	4.230	84.61	70-130
	68 1,1,2,2-Tetrachlor	5.000	2.746	54.91*	70-130
	53 1,1,2-Trichloroeth	5.000	4.743	94.87	70-130
	28 1,1-Dichloroethane	5.000	4.314	86.29	70-130
	17 1,1-Dichloroethene	5.000	4.159	83.18	70-130
	38 1,1-Dichloropropen	5.000	4.618	92.37	70-130
	88 1,2,3-Trichloroben	5.000	3.971	79.43	70-130
	70 1,2,3-Trichloropro	5.000	4.559	91.17	70-130
	85 1,2,4-Trichloroben	5.000	3.713	74.26	70-130
	77 1,2,4-Trimethylben	5.000	4.123	82.45	70-130
	84 1,2-Dibromo-3-chlo	5.000	3.448	68.95*	70-130
	58 1,2-Dibromoethane	5.000	4.450	89.00	70-130
	83 1,2-Dichlorobenzen	5.000	4.395	87.91	70-130
	40 1,2-Dichloroethane	5.000	4.488	89.76	70-130
	43 1,2-Dichloropropan	5.000	4.424	88.49	70-130
	74 1,3,5-Trimethylben	5.000	4.125	82.50	70-130
	80 1,3-Dichlorobenzen	5.000	4.326	86.52	70-130
	54 1,3-Dichloropropan	5.000	4.734	94.68	70-130
	81 1,4-Dichlorobenzen	5.000	4.406	88.12	70-130
	33 2,2-Dichloropropan	5.000	4.010	80.21	70-130
	30 2-Butanone	10.000	9.007	90.07	70-130
	73 2-Chlorotoluene	5.000	4.335	86.71	70-130
	56 2-Hexanone	10.000	8.329	83.29	70-130
	75 4-Chlorotoluene	5.000	4.383	87.66	70-130
	49 4-Methyl-2-pentano	10.000	8.188	81.88	70-130
	16 Acetone	10.000	6.494	64.94*	70-130
	41 Benzene	5.000	4.417	88.34	70-130
	71 Bromobenzene	5.000	4.803	96.06	70-130
	34 Bromochloromethane	5.000	4.562	91.24	70-130
	46 Bromodichlorometha	5.000	4.260	85.21	70-130
	66 Bromoform	5.000	3.442	68.84*	70-130
	11 Bromomethane	5.000	4.431	88.63	70-130

20 Carbon Disulfide	5.000	3.739	74.77	70-130
39 Carbon Tetrachlori	5.000	4.126	82.52	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82759.D
Report Date: 08-Mar-2010 18:23

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	59 Chlorobenzene	5.000	4.828	96.57	70-130
	57 Dibromochlorometha	5.000	3.658	73.16	70-130
	12 Chloroethane	5.000	4.477	89.55	70-130
	35 Chloroform	5.000	4.530	90.60	70-130
	9 Chloromethane	5.000	3.868	77.36	70-130
	32 cis-1,2-dichloroet	5.000	4.197	83.94	70-130
	48 cis-1,3-Dichloropr	5.000	3.413	68.26*	70-130
	45 Dibromomethane	5.000	4.708	94.16	70-130
	8 Dichlorodifluorome	5.000	3.422	68.43*	70-130
	61 Ethylbenzene	5.000	4.430	88.60	70-130
	86 Hexachlorobutadien	5.000	3.803	76.06	70-130
	67 Isopropylbenzene	5.000	4.119	82.39	70-130
	62 m + p-Xylene	10.000	8.299	82.99	70-130
	21 Methylene Chloride	5.000	6.416	128.32	70-130
	87 Naphthalene	5.000	3.185	63.70*	70-130
	82 n-Butylbenzene	5.000	3.563	71.27	70-130
	72 n-Propylbenzene	5.000	4.335	86.70	70-130
	64 Xylene-o	5.000	4.009	80.19	70-130
	79 4-Isopropyltoluene	5.000	3.729	74.57	70-130
	78 sec-Butylbenzene	5.000	4.089	81.78	70-130
	65 Styrene	5.000	4.005	80.10	70-130
	76 tert-Butylbenzene	5.000	4.006	80.13	70-130
	55 Tetrachloroethene	5.000	4.560	91.21	70-130
	50 Toluene	5.000	4.090	81.80	70-130
	25 trans-1,2-Dichloro	5.000	4.463	89.25	70-130
	51 trans-1,3-Dichloro	5.000	3.669	73.38	70-130
	42 Trichloroethene	5.000	6.133	122.67	70-130
	13 Trichlorofluoromet	5.000	4.496	89.92	70-130
	10 Vinyl Chloride	5.000	4.367	87.34	70-130
	19 Iodomethane	5.000	4.178	83.56	70-130
	24 Methyl tert-butyl	5.000	4.138	82.77	70-130
	15 Acrolein	50.000	29.588	59.18*	70-130
	18 Freon-113	5.000	3.854	77.08	70-130
	22 Acetonitrile	50.000	49.326	98.65	70-130
	23 Acrylonitrile	10.000	9.347	93.47	70-130
	26 Hexane	5.000	5.501	110.02	70-130
	29 tert-Butyl Alcohol	100.00	76.595	76.60	70-130
M	31 1,2-Dichloroethene	10.000	8.660	86.60	70-130
	36 Tetrahydrofuran	5.000	4.068	81.36	70-130
	47 2-Chloroethyl viny	10.000	5.182	51.82*	70-130
	44 1,4-Dioxane	250.00	165.58	66.23*	70-130
	52 Ethyl Methacrylate	5.000	3.627	72.54	70-130
M	63 Xylenes (total)	15.000	12.308	82.05	70-130
	69 1,4-Dichloro-2-but	5.000	3.584	71.69	70-130
	98 Cyclohexane	5.000	3.462	69.25*	70-130
	141 1,3,5-Trichloroben	5.000	3.550	70.99	70-130
	143 Methyl Acetate	10.000	8.498	84.98	70-130
	144 Methylcyclohexane	5.000	4.059	81.17	70-130
	27 Vinyl acetate	5.000	0.0000	*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82759.D
Report Date: 08-Mar-2010 18:23

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00699
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 402279
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279,3

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	50.000	45.159	90.32	59-138
$ 5 1,2-Dichloroethane	50.000	44.330	88.66	61-130
$ 6 Toluene-d8	50.000	43.758	87.52	60-143
$ 7 Bromofluorobenzene	50.000	43.452	86.90	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82759.D
Report Date: 08-Mar-2010 18:23

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82759.D
Lab Smp Id: QCMRL
Inj Date : 06-MAR-2010 04:56
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : QCMRL
Misc Info : M00305B,8260SUX8,1-8260.SUB,402279,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Meth Date : 05-Mar-2010 21:26 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40 Cal File: UX82639.D
Als bottle: 24 QC Sample: MRL
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	5.306	5.304	(1.000)	1127146	250.000	
* 2 Chlorobenzene-d5	117	7.849	7.847	(1.000)	828261	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.039	10.037	(1.000)	410460	250.000	
$ 4 Dibromofluoromethane	113	4.789	4.787	(0.903)	212701	225.794	45.159
$ 5 1,2-Dichloroethane-d4	65	5.056	5.055	(0.953)	263025	221.652	44.330
$ 6 Toluene-d8	98	6.577	6.582	(1.240)	837806	218.790	43.758
$ 7 Bromofluorobenzene	95	8.925	8.924	(1.137)	293277	217.260	43.452
8 Dichlorodifluoromethane	85	1.662	1.654	(0.313)	12547	17.1078	3.422(R)
9 Chloromethane	50	1.826	1.831	(0.344)	24812	19.3409	3.868
10 Vinyl Chloride	62	1.954	1.952	(0.368)	19530	21.8362	4.367
11 Bromomethane	94	2.282	2.275	(0.430)	9387	22.1564	4.431
12 Chloroethane	64	2.373	2.372	(0.447)	10649	22.3867	4.477
13 Trichlorofluoromethane	101	2.599	2.597	(0.490)	20303	22.4806	4.496
15 Acrolein	56	2.970	2.968	(0.560)	34777	147.940	29.588(R)
16 Acetone	43	3.097	3.096	(0.584)	45331	32.4708	6.494(R)
17 1,1-Dichloroethene	96	3.043	3.041	(0.574)	16795	20.7958	4.159
18 Freon-113	151	3.043	3.041	(0.574)	12710	19.2696	3.854
19 Iodomethane	142	3.176	3.175	(0.599)	35833	20.8905	4.178
20 Carbon Disulfide	76	3.231	3.230	(0.609)	42298	18.6935	3.739

21 Methylene Chloride	84	3.438	3.437 (0.648)	36231	32.0789	6.416
22 Acetonitrile	41	3.329	3.333 (0.627)	49782	246.632	49.326
23 Acrylonitrile	53	3.645	3.637 (0.687)	24762	46.7369	9.347

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82759.D
Report Date: 08-Mar-2010 18:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.639	3.643	(0.686)	34707	20.6924	4.138
25	trans-1,2-Dichloroethene	96	3.651	3.649	(0.688)	21374	22.3131	4.463
26	Hexane	86	3.840	3.844	(0.724)	5854	27.5039	5.501
28	1,1-Dichloroethane	63	3.979	3.978	(0.750)	39459	21.5722	4.314
29	tert-Butyl Alcohol	59	3.523	3.522	(0.664)	32705	382.976	76.595
30	2-Butanone	43	4.430	4.428	(0.835)	41053	45.0341	9.007
M 31	1,2-Dichloroethene (total)	96				44594	43.2986	8.660
32	cis-1,2-dichloroethene	96	4.424	4.422	(0.834)	23220	20.9856	4.197
33	2,2-Dichloropropane	77	4.424	4.422	(0.834)	18275	20.0529	4.010
34	Bromochloromethane	128	4.612	4.611	(0.869)	13165	22.8093	4.562
35	Chloroform	83	4.661	4.659	(0.878)	36679	22.6508	4.530
36	Tetrahydrofuran	42	4.649	4.641	(0.876)	11285	20.3411	4.068
37	1,1,1-Trichloroethane	97	4.807	4.805	(0.906)	28927	21.1524	4.230
38	1,1-Dichloropropene	75	4.928	4.927	(0.929)	25595	23.0930	4.618
39	Carbon Tetrachloride	117	4.941	4.933	(0.931)	24615	20.6298	4.126
40	1,2-Dichloroethane	62	5.111	5.110	(0.963)	34761	22.4408	4.488
41	Benzene	78	5.099	5.097	(0.961)	81708	22.0849	4.417
42	Trichloroethene	130	5.592	5.590	(1.054)	34808	30.6668	6.133
43	1,2-Dichloropropane	63	5.786	5.779	(1.091)	22570	22.1220	4.424
44	1,4-Dioxane	88	5.884	5.882	(1.109)	7889	827.898	165.58(R)
45	Dibromomethane	93	5.884	5.876	(1.109)	13264	23.5408	4.708
46	Bromodichloromethane	83	5.993	5.992	(1.130)	22197	21.3016	4.260
47	2-Chloroethyl vinyl ether	63	6.212	6.217	(1.171)	8030	25.9103	5.182(R)
48	cis-1,3-Dichloropropene	75	6.352	6.351	(1.197)	22087	17.0657	3.413(R)
49	4-Methyl-2-pentanone	43	6.468	6.466	(1.219)	61682	40.9401	8.188
50	Toluene	91	6.638	6.636	(0.846)	85988	20.4497	4.090
51	trans-1,3-Dichloropropene	75	6.814	6.813	(0.868)	19385	18.3444	3.669
52	Ethyl Methacrylate	69	6.857	6.855	(0.874)	20358	18.1342	3.627
53	1,1,2-Trichloroethane	97	6.979	6.977	(0.889)	19048	23.7170	4.743
54	1,3-Dichloropropane	76	7.131	7.129	(0.909)	32636	23.6708	4.734
55	Tetrachloroethene	164	7.100	7.105	(0.905)	17469	22.8017	4.560
56	2-Hexanone	43	7.179	7.172	(0.915)	41073	41.6450	8.329
57	Dibromochloromethane	129	7.331	7.330	(0.934)	15540	18.2890	3.658
58	1,2-Dibromoethane	107	7.447	7.446	(0.949)	17777	22.2512	4.450
59	Chlorobenzene	112	7.873	7.871	(1.003)	65898	24.1430	4.828
60	1,1,1,2-Tetrachloroethane	131	7.940	7.938	(1.012)	20196	21.7558	4.351
61	Ethylbenzene	106	7.958	7.957	(1.014)	31260	22.1505	4.430
62	m + p-Xylene	106	8.055	8.054	(1.026)	72625	41.4946	8.299
M 63	Xylenes (total)	106				107032	61.5411	12.308
64	Xylene-o	106	8.433	8.425	(1.074)	34407	20.0465	4.009
65	Styrene	104	8.445	8.443	(1.076)	52834	20.0240	4.005
66	Bromoform	173	8.633	8.638	(1.100)	8166	17.2095	3.442(R)
67	Isopropylbenzene	105	8.767	8.766	(1.117)	87675	20.5967	4.119
68	1,1,2,2-Tetrachloroethane	83	9.053	9.052	(0.902)	12136	13.7277	2.746(R)
69	1,4-Dichloro-2-butene	53	9.108	9.106	(0.907)	6631	17.9222	3.584
70	1,2,3-Trichloropropane	110	9.114	9.106	(0.908)	7474	22.7930	4.559
71	Bromobenzene	156	9.083	9.082	(0.905)	27226	24.0162	4.803
72	n-Propylbenzene	120	9.157	9.155	(0.912)	25209	21.6761	4.335
73	2-Chlorotoluene	126	9.254	9.252	(0.922)	23131	21.6768	4.335
74	1,3,5-Trimethylbenzene	105	9.321	9.319	(0.928)	68999	20.6258	4.125
75	4-Chlorotoluene	126	9.363	9.356	(0.933)	24007	21.9153	4.383
76	tert-Butylbenzene	119	9.643	9.636	(0.961)	61364	20.0328	4.006

77	1,2,4-Trimethylbenzene	105	9.686	9.684 (0.965)	69791	20.6131	4.123
78	sec-Butylbenzene	105	9.850	9.849 (0.981)	85187	20.4461	4.089

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82759.D
Report Date: 08-Mar-2010 18:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
79	4-Isopropyltoluene	119	9.990	9.988	(0.995)	65676	18.6434	3.729
80	1,3-Dichlorobenzene	146	9.978	9.976	(0.994)	46169	21.6309	4.326
81	1,4-Dichlorobenzene	146	10.063	10.061	(1.002)	49069	22.0300	4.406
82	n-Butylbenzene	91	10.391	10.390	(1.035)	50360	17.8163	3.563
83	1,2-Dichlorobenzene	146	10.434	10.433	(1.039)	45452	21.9763	4.395
84	1,2-Dibromo-3-chloropropane	157	11.207	11.211	(1.116)	2921	17.2377	3.448(R)
85	1,2,4-Trichlorobenzene	180	12.028	12.020	(1.198)	21670	18.5649	3.713
86	Hexachlorobutadiene	225	12.180	12.185	(1.213)	10675	19.0138	3.803
87	Naphthalene	128	12.289	12.288	(1.224)	47812	15.9249	3.185(R)
88	1,2,3-Trichlorobenzene	180	12.545	12.550	(1.250)	22542	19.8567	3.971
98	Cyclohexane	56	4.849	4.848	(0.914)	44877	17.3118	3.462(R)
143	Methyl Acetate	43	3.353	3.351	(0.632)	56861	42.4895	8.498
144	Methylcyclohexane	83	5.744	5.742	(1.083)	36627	20.2936	4.059
141	1,3,5-Trichlorobenzene	180	11.401	11.406	(1.136)	23622	17.7482	3.550

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82759.D
Report Date: 08-Mar-2010 18:23

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

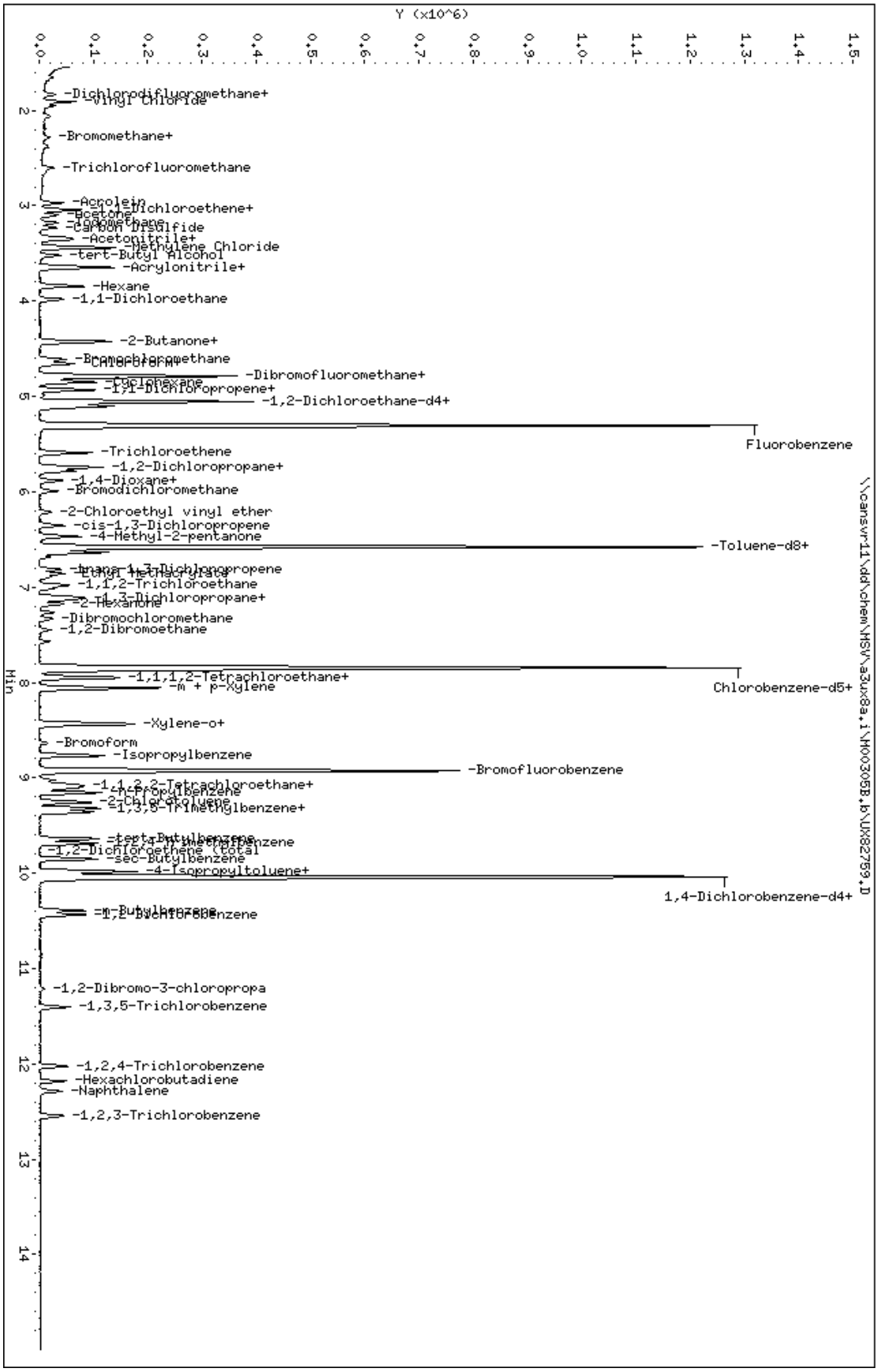
Instrument ID: a3ux8a.i
Lab File ID: UX82759.D
Lab Smp Id: QCMRL
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279,3

Calibration Date: 05-MAR-2010
Calibration Time: 20:44
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1124023	562012	2248046	1127146	0.28
2 Chlorobenzene-d5	872734	436367	1745468	828261	-5.10
3 1,4-Dichlorobenze	452625	226313	905250	410460	-9.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.03
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	0.02
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82759.D
Date : 06-MAR-2010 04:56
Client ID:
Sample Info: QCHRL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18
Y (x10^6)
Min
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82759.D
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-2-Butanone+
-Bromochloromethane
-Chloroform
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8+
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-1,2-Dichloroethene (total
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82760.D
Report Date: 08-Mar-2010 17:01

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82760.D
Lab Smp Id: QCMDL
Inj Date : 06-MAR-2010 05:18
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : QCMDL
Misc Info : M00305B,8260SUX8,1-8260.SUB,402279
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Meth Date : 05-Mar-2010 21:26 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40 Cal File: UX82639.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	5.306	5.304	(1.000)	1045920	250.000	
* 2 Chlorobenzene-d5	117	7.843	7.847	(1.000)	829742	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.039	10.037	(1.000)	408224	250.000	
$ 4 Dibromofluoromethane	113	4.783	4.787	(0.901)	195678	223.854	44.771
$ 5 1,2-Dichloroethane-d4	65	5.057	5.055	(0.953)	249337	226.502	45.300
$ 6 Toluene-d8	98	6.578	6.582	(1.240)	821674	231.241	46.248
$ 7 Bromofluorobenzene	95	8.926	8.924	(1.138)	289192	213.811	42.762
8 Dichlorodifluoromethane	85	1.662	1.654	(0.313)	4932	7.24700	1.449
9 Chloromethane	50	1.833	1.831	(0.345)	11379	9.55873	1.912
10 Vinyl Chloride	62	1.948	1.952	(0.367)	8478	10.2153	2.043
11 Bromomethane	94	2.283	2.275	(0.430)	4217	10.7265	2.145
12 Chloroethane	64	2.374	2.372	(0.447)	5273	11.9459	2.389
13 Trichlorofluoromethane	101	2.599	2.597	(0.490)	8498	10.1402	2.028
15 Acrolein	56	2.970	2.968	(0.560)	17180	78.7588	15.752
16 Acetone	43	3.098	3.096	(0.584)	47846	44.6268	8.925
17 1,1-Dichloroethene	96	3.043	3.041	(0.574)	6269	8.36520	1.673
18 Freon-113	151	3.043	3.041	(0.574)	4845	7.91593	1.583
19 Iodomethane	142	3.177	3.175	(0.599)	13860	8.70784	1.742
20 Carbon Disulfide	76	3.232	3.230	(0.609)	16588	7.90036	1.580
21 Methylene Chloride	84	3.439	3.437	(0.648)	27906	26.6268	5.325

22 Acetonitrile	41	3.329	3.333 (0.627)	20909	111.633	22.326
23 Acrylonitrile	53	3.639	3.637 (0.686)	9624	19.5754	3.915

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82760.D
Report Date: 08-Mar-2010 17:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.639	3.643	(0.686)	14116	9.06959	1.814
	25 trans-1,2-Dichloroethene	96	3.652	3.649	(0.688)	7719	8.68393	1.737
	26 Hexane	86	3.840	3.844	(0.724)	1334	6.75429	1.351
	28 1,1-Dichloroethane	63	3.980	3.978	(0.750)	14725	8.67530	1.735
	29 tert-Butyl Alcohol	59	3.524	3.522	(0.664)	12742	160.796	32.159
	30 2-Butanone	43	4.430	4.428	(0.835)	19943	23.5759	4.715
M	31 1,2-Dichloroethene (total)	96				17226	17.9434	3.589
	32 cis-1,2-dichloroethene	96	4.424	4.422	(0.834)	9507	9.25942	1.852
	33 2,2-Dichloropropane	77	4.424	4.422	(0.834)	6006	7.10208	1.420
	34 Bromochloromethane	128	4.607	4.611	(0.868)	4431	8.27324	1.655
	35 Chloroform	83	4.662	4.659	(0.878)	13864	9.22650	1.845
	36 Tetrahydrofuran	42	4.643	4.641	(0.875)	3829	7.43774	1.488
	37 1,1,1-Trichloroethane	97	4.814	4.805	(0.907)	11370	8.95978	1.792
	38 1,1-Dichloropropene	75	4.929	4.927	(0.929)	8610	8.37163	1.674
	39 Carbon Tetrachloride	117	4.935	4.933	(0.930)	8350	7.54159	1.508
	40 1,2-Dichloroethane	62	5.118	5.110	(0.964)	13741	9.55975	1.912
	41 Benzene	78	5.100	5.097	(0.961)	29971	8.73000	1.746
	42 Trichloroethene	130	5.592	5.590	(1.054)	8582	8.14816	1.630
	43 1,2-Dichloropropane	63	5.781	5.779	(1.089)	8661	9.14835	1.830
	44 1,4-Dioxane	88	5.884	5.882	(1.109)	2933	331.703	66.340
	45 Dibromomethane	93	5.878	5.876	(1.108)	4778	9.13848	1.828
	46 Bromodichloromethane	83	5.994	5.992	(1.130)	7679	7.94155	1.588
	47 2-Chloroethyl vinyl ether	63	6.219	6.217	(1.172)	2285	7.94557	1.589
	48 cis-1,3-Dichloropropene	75	6.359	6.351	(1.198)	8985	7.48145	1.496
	49 4-Methyl-2-pentanone	43	6.468	6.466	(1.219)	23108	16.5285	3.306
	50 Toluene	91	6.639	6.636	(0.846)	33930	8.05483	1.611
	51 trans-1,3-Dichloropropene	75	6.815	6.813	(0.869)	6814	6.43670	1.287
	52 Ethyl Methacrylate	69	6.858	6.855	(0.874)	7506	6.67415	1.335
	53 1,1,2-Trichloroethane	97	6.979	6.977	(0.890)	6318	7.85261	1.570
	54 1,3-Dichloropropane	76	7.125	7.129	(0.908)	12208	8.83864	1.768
	55 Tetrachloroethene	164	7.107	7.105	(0.906)	6403	8.34271	1.668
	56 2-Hexanone	43	7.174	7.172	(0.915)	20377	20.6239	4.125
	57 Dibromochloromethane	129	7.338	7.330	(0.936)	5939	6.97713	1.395
	58 1,2-Dibromoethane	107	7.448	7.446	(0.950)	6556	8.19141	1.638
	59 Chlorobenzene	112	7.874	7.871	(1.004)	25164	9.20285	1.840
	60 1,1,1,2-Tetrachloroethane	131	7.934	7.938	(1.012)	7672	8.24980	1.650
	61 Ethylbenzene	106	7.953	7.957	(1.014)	10378	7.34061	1.468
	62 m + p-Xylene	106	8.056	8.054	(1.027)	27071	15.4395	3.088
M	63 Xylenes (total)	106				40531	23.2677	4.654
	64 Xylene-o	106	8.427	8.425	(1.074)	13460	7.82820	1.566
	65 Styrene	104	8.439	8.443	(1.076)	19825	7.50024	1.500
	66 Bromoform	173	8.646	8.638	(1.102)	2730	5.74308	1.149
	67 Isopropylbenzene	105	8.762	8.766	(1.117)	32462	7.61241	1.522
	68 1,1,2,2-Tetrachloroethane	83	9.054	9.052	(0.902)	8808	10.0178	2.004
	69 1,4-Dichloro-2-butene	53	9.109	9.106	(0.907)	2438	6.62550	1.325
	70 1,2,3-Trichloropropane	110	9.109	9.106	(0.907)	3081	9.44742	1.889
	71 Bromobenzene	156	9.084	9.082	(0.905)	9841	8.72835	1.746
	72 n-Propylbenzene	120	9.163	9.155	(0.913)	8585	7.42229	1.484
	73 2-Chlorotoluene	126	9.255	9.252	(0.922)	8899	8.38520	1.677
	74 1,3,5-Trimethylbenzene	105	9.321	9.319	(0.928)	25130	7.55324	1.511
	75 4-Chlorotoluene	126	9.358	9.356	(0.932)	8210	7.53572	1.507
	76 tert-Butylbenzene	119	9.638	9.636	(0.960)	23960	7.86477	1.573

77	1,2,4-Trimethylbenzene	105	9.686	9.684 (0.965)	26839	7.97043	1.594
78	sec-Butylbenzene	105	9.851	9.849 (0.981)	33030	7.97111	1.594

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82760.D
Report Date: 08-Mar-2010 17:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
79	4-Isopropyltoluene	119	9.991	9.988	(0.995)	26151	7.46413	1.493
80	1,3-Dichlorobenzene	146	9.978	9.976	(0.994)	18473	8.70229	1.740
81	1,4-Dichlorobenzene	146	10.064	10.061	(1.002)	19426	8.76927	1.754
82	n-Butylbenzene	91	10.392	10.390	(1.035)	19789	7.03928	1.408
83	1,2-Dichlorobenzene	146	10.429	10.433	(1.039)	18387	8.93893	1.788
84	1,2-Dibromo-3-chloropropane	157	11.207	11.211	(1.116)	243	1.44187	0.2884
85	1,2,4-Trichlorobenzene	180	12.023	12.020	(1.198)	9858	8.49171	1.698
86	Hexachlorobutadiene	225	12.181	12.185	(1.213)	4190	7.50392	1.501
87	Naphthalene	128	12.290	12.288	(1.224)	20436	6.84397	1.369
88	1,2,3-Trichlorobenzene	180	12.546	12.550	(1.250)	8580	7.59931	1.520
98	Cyclohexane	56	4.850	4.848	(0.914)	14438	6.00216	1.200
143	Methyl Acetate	43	3.354	3.351	(0.632)	25216	20.3061	4.061
144	Methylcyclohexane	83	5.744	5.742	(1.083)	12432	7.42302	1.485
141	1,3,5-Trichlorobenzene	180	11.402	11.406	(1.136)	11095	8.38178	1.676

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82760.D
Report Date: 08-Mar-2010 17:01

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

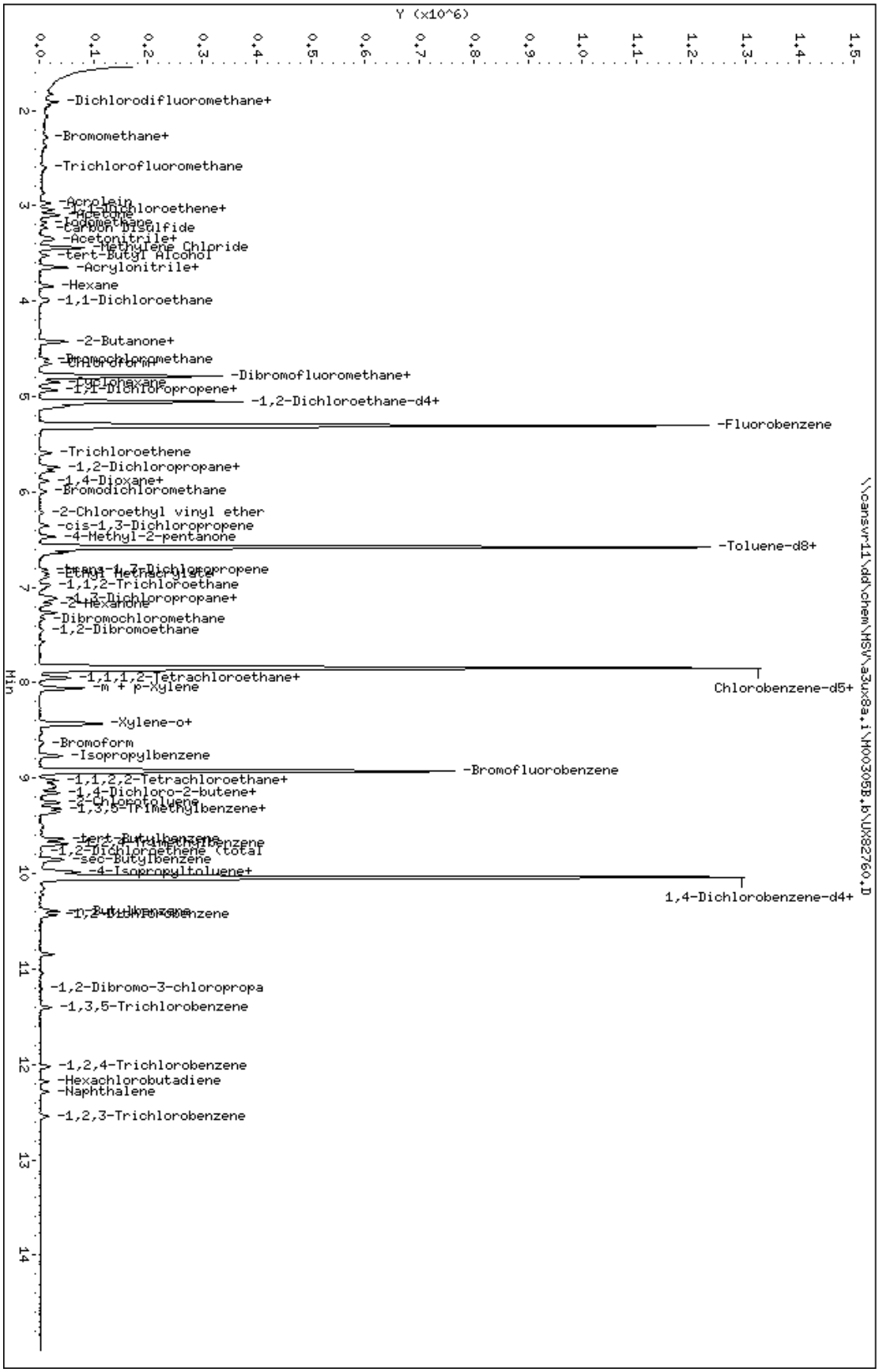
Instrument ID: a3ux8a.i
Lab File ID: UX82760.D
Lab Smp Id: QCMDL
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279

Calibration Date: 05-MAR-2010
Calibration Time: 20:44
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1124023	562012	2248046	1045920	-6.95
2 Chlorobenzene-d5	872734	436367	1745468	829742	-4.93
3 1,4-Dichlorobenze	452625	226313	905250	408224	-9.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.04
2 Chlorobenzene-d5	7.85	7.35	8.35	7.84	-0.05
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82760.D
Date : 06-MAR-2010 05:18
Client ID:
Sample Info: QCMDL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82760.D
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-Acetone
-Iodomethane
-Carbon Disulfide
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-2-Butanone+
-Chloroform
-Cyclohexane
-Dibromofluoromethane+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8+
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-1,4-Dichloro-2-butene+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-1,2-Dichloroethene (total
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

TestAmerica North Canton

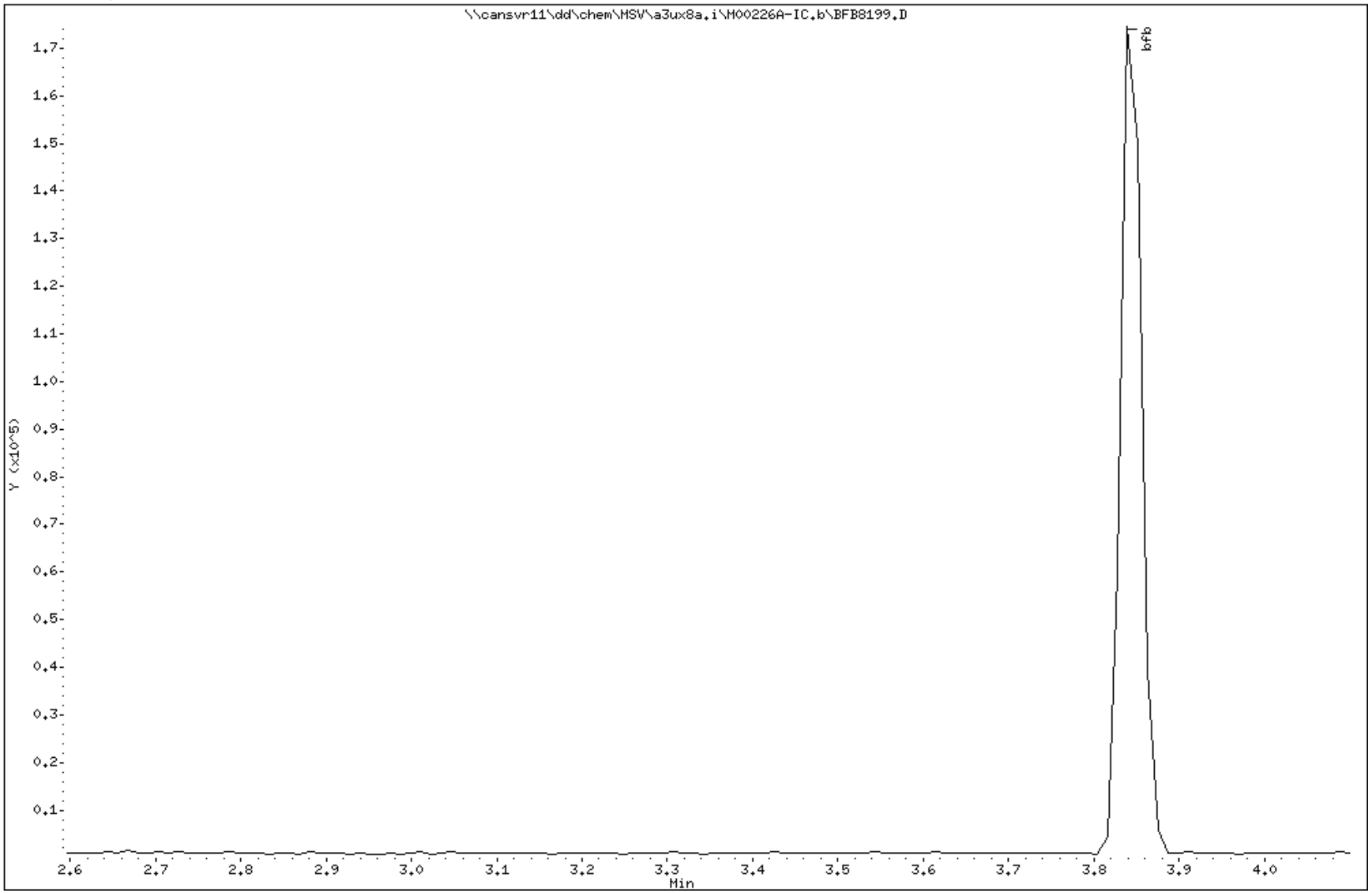
Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\BFB8199.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 26-FEB-2010 17:28
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : M00226A-IC,BFBSUX8,,402279
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\BFBSUX8.m
Meth Date : 12-Nov-2003 19:41 laveyt Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.839	3.542	0.297	95	26008			100.00- 100.00	100.00
3.839	3.542	0.297	50	7038			15.00- 40.00	27.06
3.839	3.542	0.297	75	12905			30.00- 60.00	49.62
3.839	3.542	0.297	96	1824			5.00- 9.00	7.01
3.839	3.542	0.297	173	0	0.0	0.0	0.00- 2.00	0.00
3.839	3.542	0.297	174	21816			50.00- 100.00	83.88
3.839	3.542	0.297	175	1645			5.00- 9.00	7.54
3.839	3.542	0.297	176	21144			95.00- 101.00	96.92
3.839	3.542	0.297	177	1214			5.00- 9.00	5.74

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\BFB8199.D Page 1
Date : 26-FEB-2010 17:28
Client ID: 50NGBFB Instrument: a3ux8a.i
Sample Info: 50NG INJECTION OF BFB
Operator: 402279
Column phase: DB624 20m Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00226A-IC.b\BFB8199.D

Date : 26-FEB-2010 17:28

Client ID: 50NGBFB

Instrument: a3ux8a.i

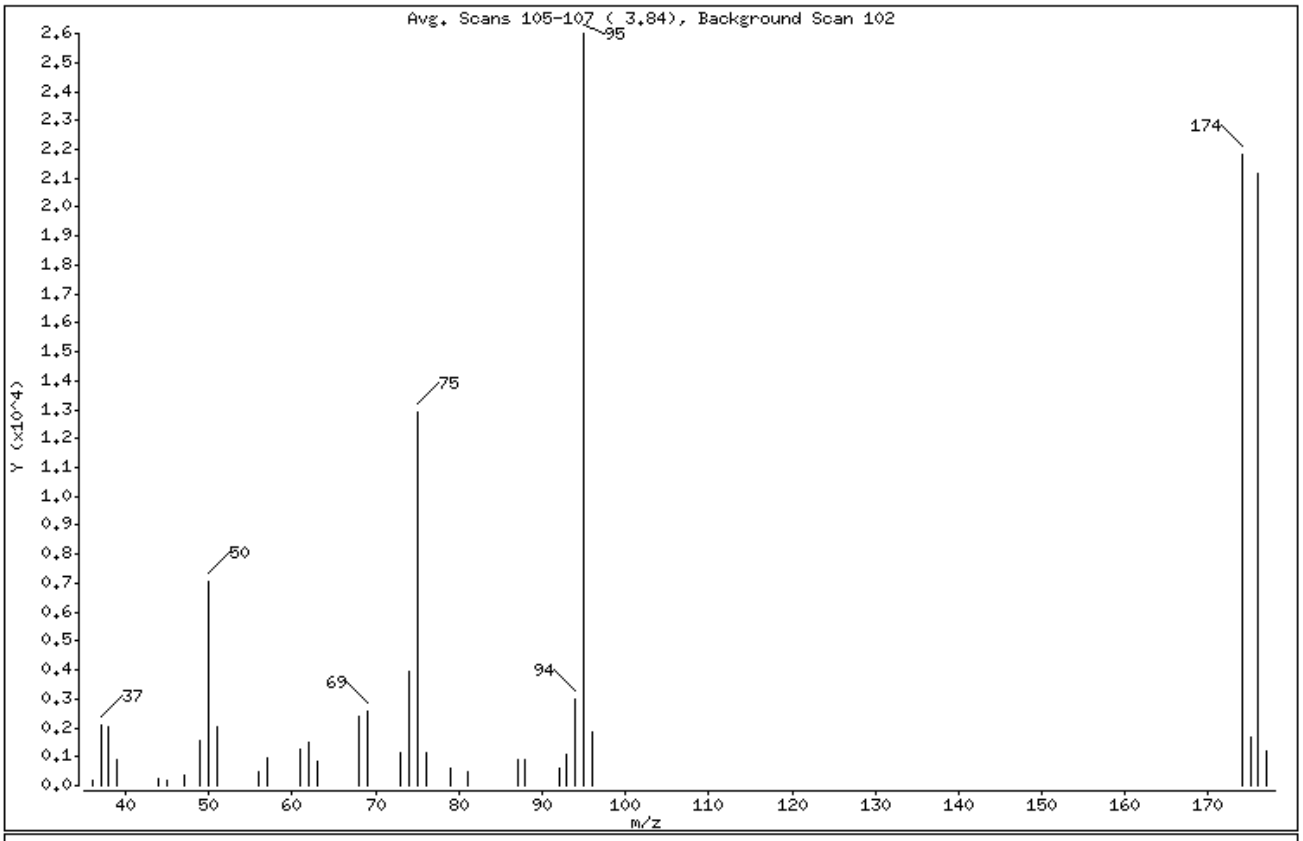
Sample Info: 50NG INJECTION OF BFB

Operator: 402279

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.06
75	30.00 - 60.00% of mass 95	49.62
96	5.00 - 9.00% of mass 95	7.01
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	83.88
175	5.00 - 9.00% of mass 174	6.32 (7.54)
176	95.00 - 101.00% of mass 174	81.30 (96.92)
177	5.00 - 9.00% of mass 176	4.67 (5.74)

Date : 26-FEB-2010 17:28

Client ID: 50NGBFB Instrument: a3ux8a.i

Sample Info: 50NG INJECTION OF BFB

Operator: 402279

Column phase: DB624 20m Column diameter: 0.18

Data File: BFB8199.D
Spectrum: Avg. Scans 105-107 (3.84), Background Scan 102
Location of Maximum: 95.00
Number of points: 34

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	176	51.00	2061	74.00	3925	94.00	3014
37.00	2080	56.00	452	75.00	12905	95.00	26008
38.00	2040	57.00	939	76.00	1125	96.00	1824
39.00	893	61.00	1276	79.00	608	174.00	21816
44.00	249	62.00	1485	81.00	455	175.00	1645
45.00	205	63.00	858	87.00	902	176.00	21144
47.00	374	68.00	2376	88.00	903	177.00	1214
49.00	1575	69.00	2548	92.00	613		
50.00	7038	73.00	1130	93.00	1063		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\BFB8205.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 05-MAR-2010 20:01
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : M00305B,BFBSUX8,,402279
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\BFBSUX8.m
Meth Date : 12-Nov-2003 19:41 laveyt Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.837	3.542	0.295	95	25032			100.00- 100.00	100.00
3.837	3.542	0.295	50	6366			15.00- 40.00	25.43
3.837	3.542	0.295	75	11807			30.00- 60.00	47.17
3.837	3.542	0.295	96	1758			5.00- 9.00	7.02
3.837	3.542	0.295	173	0	0.0	0.0	0.00- 2.00	0.00
3.837	3.542	0.295	174	19936			50.00- 100.00	79.64
3.837	3.542	0.295	175	1504			5.00- 9.00	7.54
3.837	3.542	0.295	176	19120			95.00- 101.00	95.91
3.837	3.542	0.295	177	1233			5.00- 9.00	6.45

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\BFB8205.D

Page 1

Date : 05-MAR-2010 20:01

Client ID: 50NGBFB

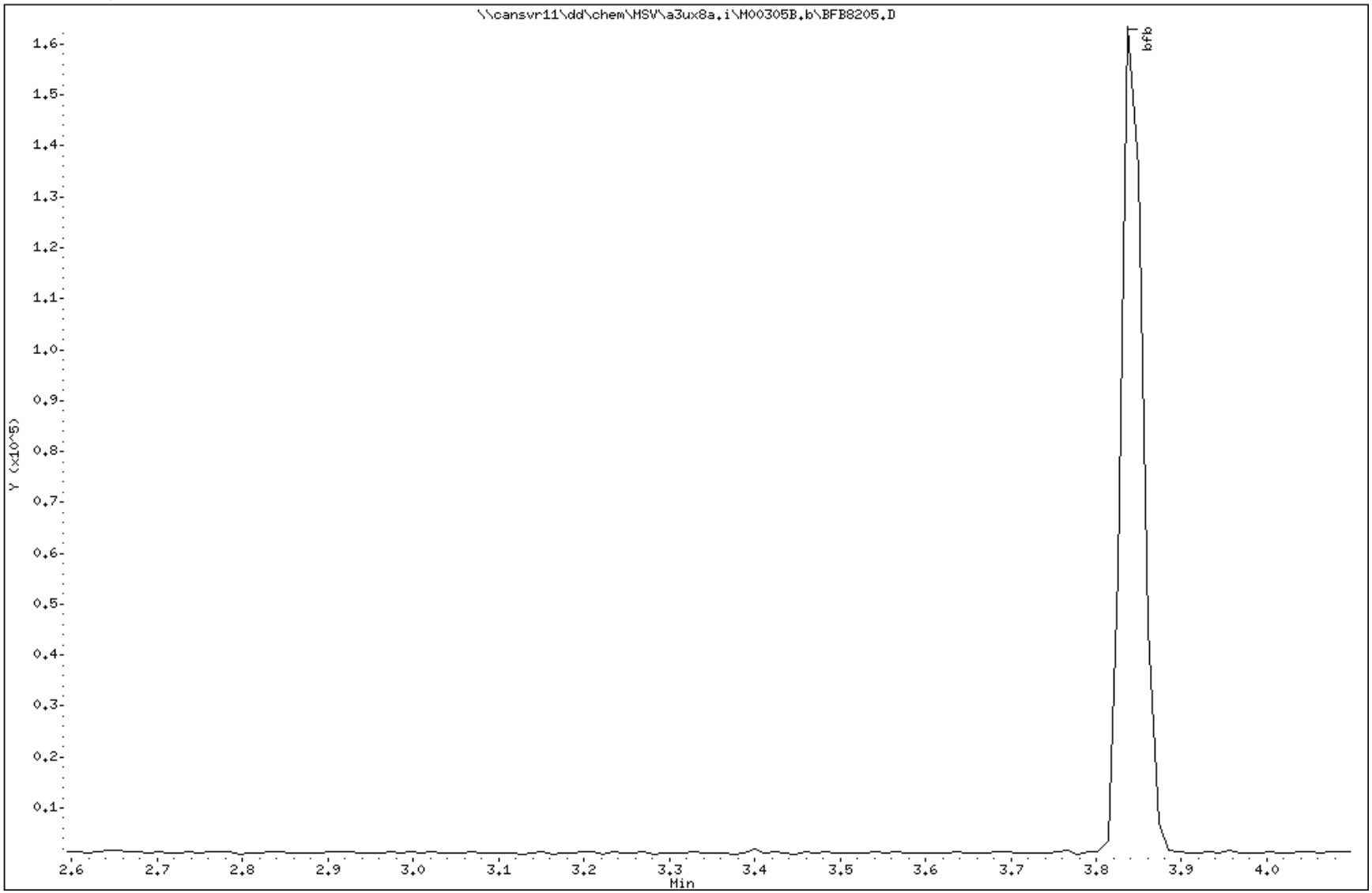
Instrument: a3ux8a.i

Sample Info: 50NG INJECTION OF BFB

Operator: 402279

Column phase: DB624 20m

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\BFB8205.D

Date : 05-MAR-2010 20:01

Client ID: 50NGBFB

Instrument: a3ux8a.i

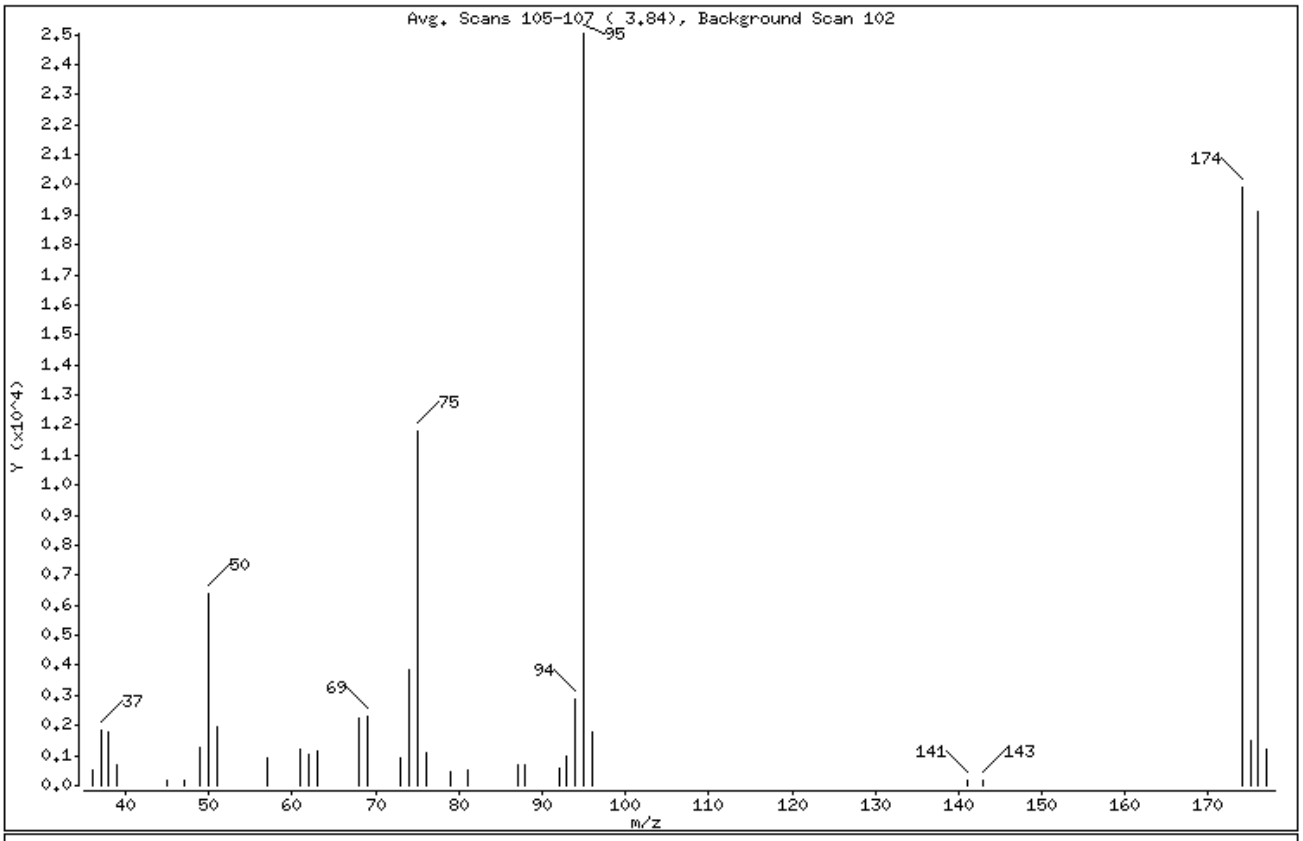
Sample Info: 50NG INJECTION OF BFB

Operator: 402279

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.43
75	30.00 - 60.00% of mass 95	47.17
96	5.00 - 9.00% of mass 95	7.02
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	79.64
175	5.00 - 9.00% of mass 174	6.01 (7.54)
176	95.00 - 101.00% of mass 174	76.38 (95.91)
177	5.00 - 9.00% of mass 176	4.93 (6.45)

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\BFB8205.D

Date : 05-MAR-2010 20:01

Client ID: 50NGBFB

Instrument: a3ux8a.i

Sample Info: 50NG INJECTION OF BFB

Operator: 402279

Column phase: DB624 20m

Column diameter: 0.18

Data File: BFB8205.D
Spectrum: Avg. Scans 105-107 (3.84), Background Scan 102
Location of Maximum: 95.00
Number of points: 34

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	521	57.00	909	76.00	1072	96.00	1758
37.00	1824	61.00	1201	79.00	453	141.00	176
38.00	1779	62.00	1041	81.00	546	143.00	181
39.00	680	63.00	1157	87.00	710	174.00	19936
45.00	190	68.00	2263	88.00	714	175.00	1504
47.00	198	69.00	2311	92.00	551	176.00	19120
49.00	1260	73.00	937	93.00	996	177.00	1233
50.00	6366	74.00	3869	94.00	2861		
51.00	1984	75.00	11807	95.00	25032		

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWEQ81AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C080000-386 LWEQ81AD-LCSD
Prep Date.....: 03/05/10 **Analysis Date..:** 03/05/10
Prep Batch #...: 0067386
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	95	(65 - 135)			SW846 8260B
	92	(65 - 135)	3.2	(0-30)	SW846 8260B
Trichloroethene	82	(75 - 125)			SW846 8260B
	103	(75 - 125)	23	(0-30)	SW846 8260B
Benzene	89	(75 - 125)			SW846 8260B
	87	(75 - 125)	2.8	(0-30)	SW846 8260B
Toluene	77	(70 - 125)			SW846 8260B
	77	(70 - 125)	1.1	(0-30)	SW846 8260B
Chlorobenzene	85	(75 - 125)			SW846 8260B
	83	(75 - 125)	2.5	(0-30)	SW846 8260B
Acetone	98	(20 - 160)			SW846 8260B
	93	(20 - 160)	5.1	(0-37)	SW846 8260B
Bromodichloromethane	100	(70 - 130)			SW846 8260B
	97	(70 - 130)	2.6	(0-30)	SW846 8260B
Bromoform	98	(55 - 135)			SW846 8260B
	96	(55 - 135)	1.6	(0-30)	SW846 8260B
Bromomethane	89	(30 - 160)			SW846 8260B
	88	(30 - 160)	1.5	(0-30)	SW846 8260B
2-Butanone	93	(30 - 160)			SW846 8260B
	87	(30 - 160)	6.8	(0-33)	SW846 8260B
Bromochloromethane	94	(70 - 125)			SW846 8260B
	94	(70 - 125)	0.23	(0-30)	SW846 8260B
Carbon disulfide	95	(45 - 160)			SW846 8260B
	92	(45 - 160)	3.5	(0-36)	SW846 8260B
Carbon tetrachloride	92	(65 - 135)			SW846 8260B
	91	(65 - 135)	1.5	(0-30)	SW846 8260B
Chloroethane	94	(40 - 155)			SW846 8260B
	91	(40 - 155)	3.2	(0-30)	SW846 8260B
Chloroform	91	(70 - 125)			SW846 8260B
	91	(70 - 125)	0.22	(0-30)	SW846 8260B
Chloromethane	82	(50 - 130)			SW846 8260B
	80	(50 - 130)	1.9	(0-30)	SW846 8260B
1,2-Dibromoethane	101	(70 - 125)			SW846 8260B
	97	(70 - 125)	4.0	(0-30)	SW846 8260B
1,1-Dichloroethane	93	(75 - 125)			SW846 8260B
	91	(75 - 125)	2.4	(0-47)	SW846 8260B
1,2-Dichloroethane	95	(70 - 135)			SW846 8260B
	92	(70 - 135)	4.0	(0-43)	SW846 8260B
1,2-Dichloropropane	95	(70 - 120)			SW846 8260B
	91	(70 - 120)	3.4	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWEQ81AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C080000-386 LWEQ81AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	94	(70 - 125)			SW846 8260B
	91	(70 - 125)	3.0	(0-40)	SW846 8260B
trans-1,3-Dichloropropene	100	(65 - 125)			SW846 8260B
	98	(65 - 125)	2.1	(0-32)	SW846 8260B
Ethylbenzene	85	(75 - 125)			SW846 8260B
	82	(75 - 125)	3.3	(0-30)	SW846 8260B
2-Hexanone	108	(45 - 145)			SW846 8260B
	99	(45 - 145)	8.7	(0-31)	SW846 8260B
Methylene chloride	90	(55 - 140)			SW846 8260B
	87	(55 - 140)	3.2	(0-30)	SW846 8260B
4-Methyl-2-pentanone	108	(45 - 145)			SW846 8260B
	97	(45 - 145)	10	(0-39)	SW846 8260B
Styrene	90	(75 - 125)			SW846 8260B
	86	(75 - 125)	4.9	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	106	(55 - 130)			SW846 8260B
	72 p	(55 - 130)	39	(0-30)	SW846 8260B
Tetrachloroethene	82	(65 - 140)			SW846 8260B
	82	(65 - 140)	0.37	(0-30)	SW846 8260B
1,1,2-Trichloroethane	97	(60 - 125)			SW846 8260B
	92	(60 - 125)	5.3	(0-30)	SW846 8260B
1,1,1-Trichloroethane	88	(70 - 135)			SW846 8260B
	87	(70 - 135)	0.86	(0-30)	SW846 8260B
Xylenes (total)	86	(75 - 125)			SW846 8260B
	82	(75 - 125)	4.3	(0-30)	SW846 8260B
Vinyl chloride	83	(60 - 125)			SW846 8260B
	82	(60 - 125)	0.79	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro-propane	106	(40 - 135)			SW846 8260B
	96	(40 - 135)	10	(0-30)	SW846 8260B
1,3-Dichlorobenzene	82	(70 - 125)			SW846 8260B
	76	(70 - 125)	7.6	(0-30)	SW846 8260B
1,4-Dichlorobenzene	80	(70 - 125)			SW846 8260B
	73	(70 - 125)	9.1	(0-30)	SW846 8260B
1,2-Dichlorobenzene	82	(75 - 120)			SW846 8260B
	76	(75 - 120)	7.5	(0-30)	SW846 8260B
Dichlorodifluoromethane	67	(35 - 135)			SW846 8260B
	66	(35 - 135)	2.3	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	94	(65 - 135)			SW846 8260B
	91	(65 - 135)	3.2	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	93	(65 - 125)			SW846 8260B
	88	(65 - 125)	5.0	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWEQ81AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C080000-386 LWEQ81AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Naphthalene	97	(40 - 125)			SW846 8260B
	89	(40 - 125)	8.5	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	95	(75 - 125)			SW846 8260B
	93	(75 - 125)	2.1	(0-30)	SW846 8260B
Trichlorofluoromethane	96	(25 - 185)			SW846 8260B
	96	(25 - 185)	0.41	(0-30)	SW846 8260B
o-Xylene	88	(75 - 125)			SW846 8260B
	85	(75 - 125)	3.9	(0-30)	SW846 8260B
m-Xylene & p-Xylene	84	(80 - 125)			SW846 8260B
	81	(80 - 125)	4.5	(0-30)	SW846 8260B
Isopropylbenzene	86	(75 - 130)			SW846 8260B
	82	(75 - 130)	5.1	(0-30)	SW846 8260B
1,1-Dichloropropene	90	(70 - 135)			SW846 8260B
	89	(70 - 135)	1.9	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	83	(60 - 135)			SW846 8260B
	76	(60 - 135)	7.9	(0-30)	SW846 8260B
1,2,3-Trichloropropane	110	(65 - 130)			SW846 8260B
	102	(65 - 130)	7.6	(0-30)	SW846 8260B
1,2,4-Trichloro-benzene	85	(65 - 130)			SW846 8260B
	77	(65 - 130)	10	(0-30)	SW846 8260B
2,2-Dichloropropane	84	(65 - 135)			SW846 8260B
	87	(65 - 135)	2.7	(0-30)	SW846 8260B
2-Chlorotoluene	85	(70 - 130)			SW846 8260B
	79	(70 - 130)	7.8	(0-30)	SW846 8260B
4-Chlorotoluene	84	(75 - 125)			SW846 8260B
	77	(75 - 125)	8.9	(0-30)	SW846 8260B
Bromobenzene	87	(65 - 120)			SW846 8260B
	83	(65 - 120)	5.8	(0-30)	SW846 8260B
Dibromomethane	100	(75 - 130)			SW846 8260B
	97	(75 - 130)	2.8	(0-30)	SW846 8260B
Hexachlorobutadiene	69	(55 - 140)			SW846 8260B
	60	(55 - 140)	15	(0-50)	SW846 8260B
n-Butylbenzene	80	(65 - 140)			SW846 8260B
	70	(65 - 140)	13	(0-30)	SW846 8260B
n-Propylbenzene	85	(65 - 135)			SW846 8260B
	77	(65 - 135)	9.6	(0-30)	SW846 8260B
p-Isopropyltoluene	84	(75 - 135)			SW846 8260B
	76	(75 - 135)	10	(0-30)	SW846 8260B
sec-Butylbenzene	84	(65 - 130)			SW846 8260B
	76	(65 - 130)	10	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWEQ81AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C080000-386 LWEQ81AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
tert-Butylbenzene	**84**	**(65 - 130)**			**SW846 8260B**
	78	**(65 - 130)**	**8.1**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**90**	**(65 - 135)**			**SW846 8260B**
	82	**(65 - 135)**	**8.4**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**88**	**(65 - 135)**			**SW846 8260B**
	79	**(65 - 135)**	**10**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(61 - 130)
	88	(61 - 130)
Toluene-d8	93	(85 - 115)
	93	(85 - 115)
4-Bromofluorobenzene	91	(85 - 120)
	90	(85 - 120)
Dibromofluoromethane	89	(59 - 138)
	90	(59 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWEQ81AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C080000-386 LWEQ81AD-LCSD
Prep Date.....: 03/05/10 **Analysis Date..:** 03/05/10
Prep Batch #...: 0067386
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	50	47	ug/kg	95		SW846 8260B
	50	46	ug/kg	92	3.2	SW846 8260B
Trichloroethene	50	41	ug/kg	82		SW846 8260B
	50	52	ug/kg	103	23	SW846 8260B
Benzene	50	45	ug/kg	89		SW846 8260B
	50	43	ug/kg	87	2.8	SW846 8260B
Toluene	50	39	ug/kg	77		SW846 8260B
	50	38	ug/kg	77	1.1	SW846 8260B
Chlorobenzene	50	43	ug/kg	85		SW846 8260B
	50	42	ug/kg	83	2.5	SW846 8260B
Acetone	100	98	ug/kg	98		SW846 8260B
	100	93	ug/kg	93	5.1	SW846 8260B
Bromodichloromethane	50	50	ug/kg	100		SW846 8260B
	50	49	ug/kg	97	2.6	SW846 8260B
Bromoform	50	49	ug/kg	98		SW846 8260B
	50	48	ug/kg	96	1.6	SW846 8260B
Bromomethane	50	45	ug/kg	89		SW846 8260B
	50	44	ug/kg	88	1.5	SW846 8260B
2-Butanone	100	93	ug/kg	93		SW846 8260B
	100	87	ug/kg	87	6.8	SW846 8260B
Bromochloromethane	50	47	ug/kg	94		SW846 8260B
	50	47	ug/kg	94	0.23	SW846 8260B
Carbon disulfide	50	48	ug/kg	95		SW846 8260B
	50	46	ug/kg	92	3.5	SW846 8260B
Carbon tetrachloride	50	46	ug/kg	92		SW846 8260B
	50	46	ug/kg	91	1.5	SW846 8260B
Chloroethane	50	47	ug/kg	94		SW846 8260B
	50	45	ug/kg	91	3.2	SW846 8260B
Chloroform	50	46	ug/kg	91		SW846 8260B
	50	46	ug/kg	91	0.22	SW846 8260B
Chloromethane	50	41	ug/kg	82		SW846 8260B
	50	40	ug/kg	80	1.9	SW846 8260B
1,2-Dibromoethane	50	51	ug/kg	101		SW846 8260B
	50	49	ug/kg	97	4.0	SW846 8260B
1,1-Dichloroethane	50	46	ug/kg	93		SW846 8260B
	50	45	ug/kg	91	2.4	SW846 8260B
1,2-Dichloroethane	50	48	ug/kg	95		SW846 8260B
	50	46	ug/kg	92	4.0	SW846 8260B
1,2-Dichloropropane	50	47	ug/kg	95		SW846 8260B
	50	46	ug/kg	91	3.4	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWEQ81AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C080000-386 LWEQ81AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
cis-1,3-Dichloropropene	50	47	ug/kg	94		SW846 8260B
	50	46	ug/kg	91	3.0	SW846 8260B
trans-1,3-Dichloropropene	50	50	ug/kg	100		SW846 8260B
	50	49	ug/kg	98	2.1	SW846 8260B
Ethylbenzene	50	43	ug/kg	85		SW846 8260B
	50	41	ug/kg	82	3.3	SW846 8260B
2-Hexanone	100	110	ug/kg	108		SW846 8260B
	100	99	ug/kg	99	8.7	SW846 8260B
Methylene chloride	50	45	ug/kg	90		SW846 8260B
	50	43	ug/kg	87	3.2	SW846 8260B
4-Methyl-2-pentanone	100	110	ug/kg	108		SW846 8260B
	100	97	ug/kg	97	10	SW846 8260B
Styrene	50	45	ug/kg	90		SW846 8260B
	50	43	ug/kg	86	4.9	SW846 8260B
1,1,2,2-Tetrachloroethane	50	53	ug/kg	106		SW846 8260B
	50	36 p	ug/kg	72	39	SW846 8260B
Tetrachloroethene	50	41	ug/kg	82		SW846 8260B
	50	41	ug/kg	82	0.37	SW846 8260B
1,1,2-Trichloroethane	50	49	ug/kg	97		SW846 8260B
	50	46	ug/kg	92	5.3	SW846 8260B
1,1,1-Trichloroethane	50	44	ug/kg	88		SW846 8260B
	50	44	ug/kg	87	0.86	SW846 8260B
Xylenes (total)	150	130	ug/kg	86		SW846 8260B
	150	120	ug/kg	82	4.3	SW846 8260B
Vinyl chloride	50	42	ug/kg	83		SW846 8260B
	50	41	ug/kg	82	0.79	SW846 8260B
1,2-Dibromo-3-chloro-propane	50	53	ug/kg	106		SW846 8260B
	50	48	ug/kg	96	10	SW846 8260B
1,3-Dichlorobenzene	50	41	ug/kg	82		SW846 8260B
	50	38	ug/kg	76	7.6	SW846 8260B
1,4-Dichlorobenzene	50	40	ug/kg	80		SW846 8260B
	50	37	ug/kg	73	9.1	SW846 8260B
1,2-Dichlorobenzene	50	41	ug/kg	82		SW846 8260B
	50	38	ug/kg	76	7.5	SW846 8260B
Dichlorodifluoromethane	50	34	ug/kg	67		SW846 8260B
	50	33	ug/kg	66	2.3	SW846 8260B
trans-1,2-Dichloroethene	50	47	ug/kg	94		SW846 8260B
	50	45	ug/kg	91	3.2	SW846 8260B
cis-1,2-Dichloroethene	50	46	ug/kg	93		SW846 8260B
	50	44	ug/kg	88	5.0	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWEQ81AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C080000-386 LWEQ81AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Naphthalene	50	49	ug/kg	97		SW846 8260B
	50	45	ug/kg	89	8.5	SW846 8260B
1,1,1,2-Tetrachloroethane	50	47	ug/kg	95		SW846 8260B
	50	46	ug/kg	93	2.1	SW846 8260B
Trichlorofluoromethane	50	48	ug/kg	96		SW846 8260B
	50	48	ug/kg	96	0.41	SW846 8260B
o-Xylene	50	44	ug/kg	88		SW846 8260B
	50	42	ug/kg	85	3.9	SW846 8260B
m-Xylene & p-Xylene	100	84	ug/kg	84		SW846 8260B
	100	81	ug/kg	81	4.5	SW846 8260B
Isopropylbenzene	50	43	ug/kg	86		SW846 8260B
	50	41	ug/kg	82	5.1	SW846 8260B
1,1-Dichloropropene	50	45	ug/kg	90		SW846 8260B
	50	44	ug/kg	89	1.9	SW846 8260B
1,2,3-Trichlorobenzene	50	41	ug/kg	83		SW846 8260B
	50	38	ug/kg	76	7.9	SW846 8260B
1,2,3-Trichloropropane	50	55	ug/kg	110		SW846 8260B
	50	51	ug/kg	102	7.6	SW846 8260B
1,2,4-Trichloro-benzene	50	43	ug/kg	85		SW846 8260B
	50	39	ug/kg	77	10	SW846 8260B
2,2-Dichloropropane	50	42	ug/kg	84		SW846 8260B
	50	43	ug/kg	87	2.7	SW846 8260B
2-Chlorotoluene	50	42	ug/kg	85		SW846 8260B
	50	39	ug/kg	79	7.8	SW846 8260B
4-Chlorotoluene	50	42	ug/kg	84		SW846 8260B
	50	38	ug/kg	77	8.9	SW846 8260B
Bromobenzene	50	44	ug/kg	87		SW846 8260B
	50	41	ug/kg	83	5.8	SW846 8260B
Dibromomethane	50	50	ug/kg	100		SW846 8260B
	50	49	ug/kg	97	2.8	SW846 8260B
Hexachlorobutadiene	50	35	ug/kg	69		SW846 8260B
	50	30	ug/kg	60	15	SW846 8260B
n-Butylbenzene	50	40	ug/kg	80		SW846 8260B
	50	35	ug/kg	70	13	SW846 8260B
n-Propylbenzene	50	42	ug/kg	85		SW846 8260B
	50	38	ug/kg	77	9.6	SW846 8260B
p-Isopropyltoluene	50	42	ug/kg	84		SW846 8260B
	50	38	ug/kg	76	10	SW846 8260B
sec-Butylbenzene	50	42	ug/kg	84		SW846 8260B
	50	38	ug/kg	76	10	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWEQ81AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C080000-386 LWEQ81AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
tert-Butylbenzene	**50**	**42**	**ug/kg**	**84**		**SW846 8260B**
	50	**39**	**ug/kg**	**78**	**8.1**	**SW846 8260B**
1,2,4-Trimethylbenzene	**50**	**45**	**ug/kg**	**90**		**SW846 8260B**
	50	**41**	**ug/kg**	**82**	**8.4**	**SW846 8260B**
1,3,5-Trimethylbenzene	**50**	**44**	**ug/kg**	**88**		**SW846 8260B**
	50	**40**	**ug/kg**	**79**	**10**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(61 - 130)
	88	(61 - 130)
Toluene-d8	93	(85 - 115)
	93	(85 - 115)
4-Bromofluorobenzene	91	(85 - 120)
	90	(85 - 120)
Dibromofluoromethane	89	(59 - 138)
	90	(59 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82740.D
Report Date: 05-Mar-2010 23:35

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82740.D
Lab Smp Id: CHECK
Inj Date : 05-MAR-2010 21:48
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : CHECK
Misc Info : M00305B,8260SUX8,,402279,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Meth Date : 05-Mar-2010 21:26 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40 Cal File: UX82639.D
Als bottle: 5 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	5.303	5.304	(1.000)	1126499	250.000	
* 2 Chlorobenzene-d5	117	7.846	7.847	(1.000)	901255	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.037	(1.000)	453945	250.000	
$ 4 Dibromofluoromethane	113	4.786	4.787	(0.903)	210571	223.661	44.732
$ 5 1,2-Dichloroethane-d4	65	5.054	5.055	(0.953)	259188	218.501	43.700
$ 6 Toluene-d8	98	6.581	6.582	(1.241)	886697	231.691	46.338
$ 7 Bromofluorobenzene	95	8.923	8.924	(1.137)	333001	226.821	45.364
8 Dichlorodifluoromethane	85	1.659	1.654	(0.313)	123428	168.390	33.678
9 Chloromethane	50	1.836	1.831	(0.346)	261908	204.274	40.855
10 Vinyl Chloride	62	1.951	1.952	(0.368)	185549	207.578	41.516
11 Bromomethane	94	2.280	2.275	(0.430)	94576	223.358	44.672
12 Chloroethane	64	2.377	2.372	(0.448)	111656	234.862	46.972
13 Trichlorofluoromethane	101	2.602	2.597	(0.491)	216338	239.679	47.936
15 Acrolein	56	2.973	2.968	(0.561)	183509	781.090	156.22
16 Acetone	43	3.101	3.096	(0.585)	279494	489.632	97.926
17 1,1-Dichloroethene	96	3.046	3.041	(0.574)	191245	236.939	47.388
18 Freon-113	151	3.046	3.041	(0.574)	163090	247.402	49.480
19 Iodomethane	142	3.180	3.175	(0.600)	403484	235.365	47.073
20 Carbon Disulfide	76	3.235	3.230	(0.610)	537578	237.718	47.544
21 Methylene Chloride	84	3.442	3.437	(0.649)	253071	224.197	44.839

22 Acetonitrile	41	3.332	3.333 (0.628)	141634	702.092	140.42
23 Acrylonitrile	53	3.643	3.637 (0.687)	403645	762.295	152.46

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Report Date: 05-Mar-2010 23:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.643	3.643	(0.687)	413221	246.505	49.301
	25 trans-1,2-Dichloroethene	96	3.655	3.649	(0.689)	224168	234.151	46.830
	26 Hexane	86	3.843	3.844	(0.725)	51250	240.927	48.185
	28 1,1-Dichloroethane	63	3.983	3.978	(0.751)	424288	232.091	46.418
	29 tert-Butyl Alcohol	59	3.527	3.522	(0.665)	390579	4576.31	915.26
	30 2-Butanone	43	4.427	4.428	(0.835)	424484	465.916	93.183
M	31 1,2-Dichloroethene (total)	96				480054	465.547	93.109
	32 cis-1,2-dichloroethene	96	4.427	4.422	(0.835)	255886	231.395	46.279
	33 2,2-Dichloropropane	77	4.421	4.422	(0.834)	192386	211.223	42.245
	34 Bromochloromethane	128	4.616	4.611	(0.870)	135487	234.876	46.975
	35 Chloroform	83	4.658	4.659	(0.878)	369044	228.031	45.606
	36 Tetrahydrofuran	42	4.646	4.641	(0.876)	132991	239.853	47.971
	37 1,1,1-Trichloroethane	97	4.811	4.805	(0.907)	300147	219.603	43.921
	38 1,1-Dichloropropene	75	4.932	4.927	(0.930)	250514	226.155	45.231
	39 Carbon Tetrachloride	117	4.938	4.933	(0.931)	275595	231.108	46.222
	40 1,2-Dichloroethane	62	5.115	5.110	(0.964)	369538	238.701	47.740
	41 Benzene	78	5.103	5.097	(0.962)	824014	222.851	44.570
	42 Trichloroethene	130	5.589	5.590	(1.054)	231884	204.413	40.883
	43 1,2-Dichloropropane	63	5.784	5.779	(1.091)	241076	236.427	47.285
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	5.881	5.876	(1.109)	140881	250.177	50.035
	46 Bromodichloromethane	83	5.991	5.992	(1.130)	259755	249.420	49.884
	47 2-Chloroethyl vinyl ether	63	6.216	6.217	(1.172)	62404	201.474	40.295
	48 cis-1,3-Dichloropropene	75	6.356	6.351	(1.198)	304804	235.644	47.129
	49 4-Methyl-2-pentanone	43	6.465	6.466	(1.219)	812855	539.825	107.96
	50 Toluene	91	6.636	6.636	(0.846)	885777	193.594	38.719
	51 trans-1,3-Dichloropropene	75	6.812	6.813	(0.868)	288109	250.561	50.112
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	6.982	6.977	(0.890)	212702	243.389	48.678
	54 1,3-Dichloropropane	76	7.128	7.129	(0.909)	360811	240.500	48.100
	55 Tetrachloroethene	164	7.104	7.105	(0.905)	170852	204.946	40.989
	56 2-Hexanone	43	7.177	7.172	(0.915)	581404	541.756	108.35
	57 Dibromochloromethane	129	7.335	7.330	(0.935)	220252	238.220	47.644
	58 1,2-Dibromoethane	107	7.451	7.446	(0.950)	219834	252.877	50.575
	59 Chlorobenzene	112	7.871	7.871	(1.003)	632896	213.094	42.619
	60 1,1,1,2-Tetrachloroethane	131	7.937	7.938	(1.012)	239335	236.939	47.388
	61 Ethylbenzene	106	7.956	7.957	(1.014)	326839	212.837	42.567
	62 m + p-Xylene	106	8.059	8.054	(1.027)	804499	422.426	84.485
M	63 Xylenes (total)	106				1215333	642.403	128.48
	64 Xylene-o	106	8.430	8.425	(1.074)	410834	219.978	43.996
	65 Styrene	104	8.442	8.443	(1.076)	648698	225.944	45.189
	66 Bromoform	173	8.637	8.638	(1.101)	126015	244.062	48.812
	67 Isopropylbenzene	105	8.765	8.766	(1.117)	994598	214.729	42.946
	68 1,1,2,2-Tetrachloroethane	83	9.057	9.052	(0.902)	259970	265.897	53.179
	69 1,4-Dichloro-2-butene	53	9.112	9.106	(0.907)	222330	543.348	108.67
	70 1,2,3-Trichloropropane	110	9.105	9.106	(0.907)	99687	274.888	54.978
	71 Bromobenzene	156	9.081	9.082	(0.904)	274026	218.565	43.713
	72 n-Propylbenzene	120	9.154	9.155	(0.912)	272496	211.862	42.372
	73 2-Chlorotoluene	126	9.258	9.252	(0.922)	250462	212.231	42.446
	74 1,3,5-Trimethylbenzene	105	9.318	9.319	(0.928)	815016	220.294	44.059
	75 4-Chlorotoluene	126	9.361	9.356	(0.932)	254302	209.907	41.981
	76 tert-Butylbenzene	119	9.641	9.636	(0.960)	714684	210.964	42.193

77	1,2,4-Trimethylbenzene	105	9.683	9.684 (0.964)	838351	223.891	44.778
78	sec-Butylbenzene	105	9.848	9.849 (0.981)	968463	210.179	42.036

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82740.D
Report Date: 05-Mar-2010 23:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
79	4-Isopropyltoluene	119	9.988	9.988	(0.995)	819684	210.394	42.079
80	1,3-Dichlorobenzene	146	9.975	9.976	(0.993)	484371	205.196	41.039
81	1,4-Dichlorobenzene	146	10.067	10.061	(1.002)	494301	200.663	40.132
82	n-Butylbenzene	91	10.389	10.390	(1.035)	626284	200.342	40.068
83	1,2-Dichlorobenzene	146	10.438	10.433	(1.039)	471196	206.002	41.200
84	1,2-Dibromo-3-chloropropane	157	11.210	11.211	(1.116)	49782	265.636	53.127
85	1,2,4-Trichlorobenzene	180	12.026	12.020	(1.197)	274676	212.776	42.555
86	Hexachlorobutadiene	225	12.178	12.185	(1.213)	107217	172.677	34.535
87	Naphthalene	128	12.287	12.288	(1.224)	805569	242.611	48.522
88	1,2,3-Trichlorobenzene	180	12.543	12.550	(1.249)	258955	206.256	41.251
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	2.846	2.846	(0.537)	263726	264.976	52.995
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.008	4.002	(0.756)	228688	250.860	50.172
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	4.981	4.981	(0.635)	708098	14301.8	2860.4(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	4.853	4.848	(0.915)	441893	170.563	34.113
143	Methyl Acetate	43	3.357	3.351	(0.633)	317703	237.541	47.508
144	Methylcyclohexane	83	5.741	5.742	(1.083)	368942	204.534	40.907
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
103	Cyclohexanone	55	8.886	8.887	(0.885)	330577	1248.10	249.62
155	tert-Butyl Ethyl ether	59	Compound Not Detected.					
156	tert-Amyl Methyl ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbenzene	105	10.103	10.104	(1.006)	876046	229.400	45.880(A)
146	2-Methylnaphthalene	142	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82740.D
Report Date: 05-Mar-2010 23:35

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82740.D
Lab Smp Id: CHECK
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,,402279,3

Calibration Date: 05-MAR-2010
Calibration Time: 20:44
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1124023	562012	2248046	1126499	0.22
2 Chlorobenzene-d5	872734	436367	1745468	901255	3.27
3 1,4-Dichlorobenze	452625	226313	905250	453945	0.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.30	-0.02
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	-0.01
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82740.D
Date : 05-MAR-2010 21:48
Client ID:
Sample Info: CHECK
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Iodomethane
Carbon Disulfide
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
Acrylonitrile+
1,1-Dichloroethane+
2-Butanone+
-Bromochloromethane+
-Dibromofluoromethane+
1,1-Dichloropropene+
1,2-Dichloroethane-d4+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
-Bromofluorobenzene+
Isopropylbenzene
-2-Chlorotoluene
1,3,5-Trimethylbenzene+
-1,2-Dichloroethene (total)
sec-Butylbenzene
tert-Butylbenzene+
-1,2,3-Trimethylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82740.D

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82741.D
Report Date: 05-Mar-2010 23:36

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82741.D
Lab Smp Id: CHECKDUP
Inj Date : 05-MAR-2010 22:10
Operator : 402279   Inst ID: a3ux8a.i
Smp Info : CHECKDUP
Misc Info : M00305B,8260SUX8,,402279,3
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Meth Date : 05-Mar-2010 21:26 a3ux8a.i   Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40   Cal File: UX82639.D
Als bottle: 6   QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	5.308	5.304	(1.000)	1114381	250.000	
* 2 Chlorobenzene-d5	117	7.845	7.847	(1.000)	875306	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.041	10.037	(1.000)	449368	250.000	
$ 4 Dibromofluoromethane	113	4.785	4.787	(0.901)	209424	224.861	44.972
$ 5 1,2-Dichloroethane-d4	65	5.053	5.055	(0.952)	258083	219.956	43.991
$ 6 Toluene-d8	98	6.580	6.582	(1.240)	875509	231.255	46.251
$ 7 Bromofluorobenzene	95	8.928	8.924	(1.138)	320579	224.810	44.962
8 Dichlorodifluoromethane	85	1.658	1.654	(0.312)	119313	164.546	32.909
9 Chloromethane	50	1.835	1.831	(0.346)	254186	200.407	40.081
10 Vinyl Chloride	62	1.956	1.952	(0.369)	182104	205.940	41.188
11 Bromomethane	94	2.285	2.275	(0.430)	92150	219.995	43.999
12 Chloroethane	64	2.376	2.372	(0.448)	106989	227.492	45.498
13 Trichlorofluoromethane	101	2.601	2.597	(0.490)	214895	240.670	48.134
15 Acrolein	56	2.972	2.968	(0.560)	141341	608.148	121.63
16 Acetone	43	3.100	3.096	(0.584)	264132	465.251	93.050
17 1,1-Dichloroethene	96	3.045	3.041	(0.574)	183311	229.579	45.916
18 Freon-113	151	3.045	3.041	(0.574)	159049	243.896	48.779
19 Iodomethane	142	3.179	3.175	(0.599)	392290	231.323	46.265
20 Carbon Disulfide	76	3.234	3.230	(0.609)	513443	229.514	45.903
21 Methylene Chloride	84	3.441	3.437	(0.648)	242428	217.104	43.421

22 Acetonitrile	41	3.331	3.333 (0.628)	128334	643.081	128.62
23 Acrylonitrile	53	3.641	3.637 (0.686)	370249	706.829	141.36

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82741.D
Report Date: 05-Mar-2010 23:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.641	3.643	(0.686)	401710	242.244	48.449
	25 trans-1,2-Dichloroethene	96	3.647	3.649	(0.687)	214670	226.669	45.334
	26 Hexane	86	3.848	3.844	(0.725)	50183	238.476	47.695
	28 1,1-Dichloroethane	63	3.982	3.978	(0.750)	409739	226.569	45.314
	29 tert-Butyl Alcohol	59	3.526	3.522	(0.664)	362879	4297.99	859.60
	30 2-Butanone	43	4.432	4.428	(0.835)	392143	435.098	87.020
M	31 1,2-Dichloroethene (total)	96				455326	446.658	89.332
	32 cis-1,2-dichloroethene	96	4.426	4.422	(0.834)	240656	219.990	43.998
	33 2,2-Dichloropropane	77	4.426	4.422	(0.834)	195602	217.089	43.418
	34 Bromochloromethane	128	4.615	4.611	(0.869)	133720	234.334	46.867
	35 Chloroform	83	4.657	4.659	(0.877)	364249	227.516	45.503
	36 Tetrahydrofuran	42	4.645	4.641	(0.875)	121716	221.905	44.381
	37 1,1,1-Trichloroethane	97	4.809	4.805	(0.906)	294358	217.710	43.542
	38 1,1-Dichloropropene	75	4.931	4.927	(0.929)	243098	221.847	44.369
	39 Carbon Tetrachloride	117	4.937	4.933	(0.930)	268457	227.570	45.514
	40 1,2-Dichloroethane	62	5.114	5.110	(0.963)	351400	229.454	45.891
	41 Benzene	78	5.101	5.097	(0.961)	792669	216.705	43.341
	42 Trichloroethene	130	5.594	5.590	(1.054)	290313	258.703	51.741
	43 1,2-Dichloropropane	63	5.783	5.779	(1.089)	230591	228.603	45.720
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	5.880	5.876	(1.108)	135579	243.380	48.676
	46 Bromodichloromethane	83	5.990	5.992	(1.128)	250473	243.123	48.625
	47 2-Chloroethyl vinyl ether	63	6.215	6.217	(1.171)	58467	190.816	38.163
	48 cis-1,3-Dichloropropene	75	6.355	6.351	(1.197)	292662	228.717	45.743
	49 4-Methyl-2-pentanone	43	6.464	6.466	(1.218)	724916	486.659	97.332
	50 Toluene	91	6.641	6.636	(0.846)	850851	191.474	38.295
	51 trans-1,3-Dichloropropene	75	6.811	6.813	(0.868)	274105	245.449	49.090
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	6.981	6.977	(0.890)	195954	230.872	46.174
	54 1,3-Dichloropropane	76	7.127	7.129	(0.909)	339695	233.138	46.628
	55 Tetrachloroethene	164	7.103	7.105	(0.905)	166554	205.713	41.143
	56 2-Hexanone	43	7.176	7.172	(0.915)	517539	496.543	99.309
	57 Dibromochloromethane	129	7.334	7.330	(0.935)	206488	229.954	45.991
	58 1,2-Dibromoethane	107	7.450	7.446	(0.950)	205008	242.814	48.563
	59 Chlorobenzene	112	7.875	7.871	(1.004)	599593	207.866	41.573
	60 1,1,1,2-Tetrachloroethane	131	7.936	7.938	(1.012)	227624	232.026	46.405
	61 Ethylbenzene	106	7.955	7.957	(1.014)	307069	205.891	41.178
	62 m + p-Xylene	106	8.058	8.054	(1.027)	747142	403.939	80.788
M	63 Xylenes (total)	106				1130838	615.476	123.10
	64 Xylene-o	106	8.429	8.425	(1.074)	383696	211.537	42.307
	65 Styrene	104	8.441	8.443	(1.076)	600074	215.204	43.041
	66 Bromoform	173	8.636	8.638	(1.101)	120465	240.229	48.046
	67 Isopropylbenzene	105	8.764	8.766	(1.117)	918008	204.069	40.814
	68 1,1,2,2-Tetrachloroethane	83	9.056	9.052	(0.902)	173637	179.405	35.881
	69 1,4-Dichloro-2-butene	53	9.104	9.106	(0.907)	199388	492.244	98.449
	70 1,2,3-Trichloropropane	110	9.104	9.106	(0.907)	91427	254.679	50.936
	71 Bromobenzene	156	9.080	9.082	(0.904)	256078	206.330	41.266
	72 n-Propylbenzene	120	9.159	9.155	(0.912)	245017	192.438	38.488
	73 2-Chlorotoluene	126	9.256	9.252	(0.922)	229296	196.275	39.255
	74 1,3,5-Trimethylbenzene	105	9.317	9.319	(0.928)	726723	198.429	39.686
	75 4-Chlorotoluene	126	9.360	9.356	(0.932)	230286	192.020	38.404
	76 tert-Butylbenzene	119	9.640	9.636	(0.960)	652126	194.459	38.892

77	1,2,4-Trimethylbenzene	105	9.688	9.684 (0.965)	763033	205.852	41.170
78	sec-Butylbenzene	105	9.853	9.849 (0.981)	863818	189.378	37.876

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82741.D
Report Date: 05-Mar-2010 23:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
79	4-Isopropyltoluene	119	9.986	9.988	(0.995)	732078	189.821	37.964
80	1,3-Dichlorobenzene	146	9.980	9.976	(0.994)	444578	190.257	38.051
81	1,4-Dichlorobenzene	146	10.065	10.061	(1.002)	446619	183.153	36.630
82	n-Butylbenzene	91	10.388	10.390	(1.035)	542185	175.206	35.041
83	1,2-Dichlorobenzene	146	10.437	10.433	(1.039)	432650	191.077	38.215
84	1,2-Dibromo-3-chloropropane	157	11.209	11.211	(1.116)	44438	239.536	47.907
85	1,2,4-Trichlorobenzene	180	12.024	12.020	(1.197)	246089	192.573	38.514
86	Hexachlorobutadiene	225	12.183	12.185	(1.213)	91429	148.749	29.750
87	Naphthalene	128	12.286	12.288	(1.224)	732692	222.910	44.582
88	1,2,3-Trichlorobenzene	180	12.548	12.550	(1.250)	236901	190.612	38.122
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	2.844	2.846	(0.536)	251492	255.432	51.086
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.006	4.002	(0.755)	219877	243.818	48.764
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	4.980	4.981	(0.635)	631361	13129.9	2626.0(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	4.852	4.848	(0.914)	439303	171.407	34.281
143	Methyl Acetate	43	3.355	3.351	(0.632)	279581	211.311	42.262
144	Methylcyclohexane	83	5.740	5.742	(1.081)	363883	203.923	40.784
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
103	Cyclohexanone	55	8.891	8.887	(0.886)	307401	1172.42	234.48
155	tert-Butyl Ethyl ether	59	Compound Not Detected.					
156	tert-Amyl Methyl ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbenzene	105	10.102	10.104	(1.006)	799494	211.487	42.297(A)
146	2-Methylnaphthalene	142	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82741.D
Report Date: 05-Mar-2010 23:36

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

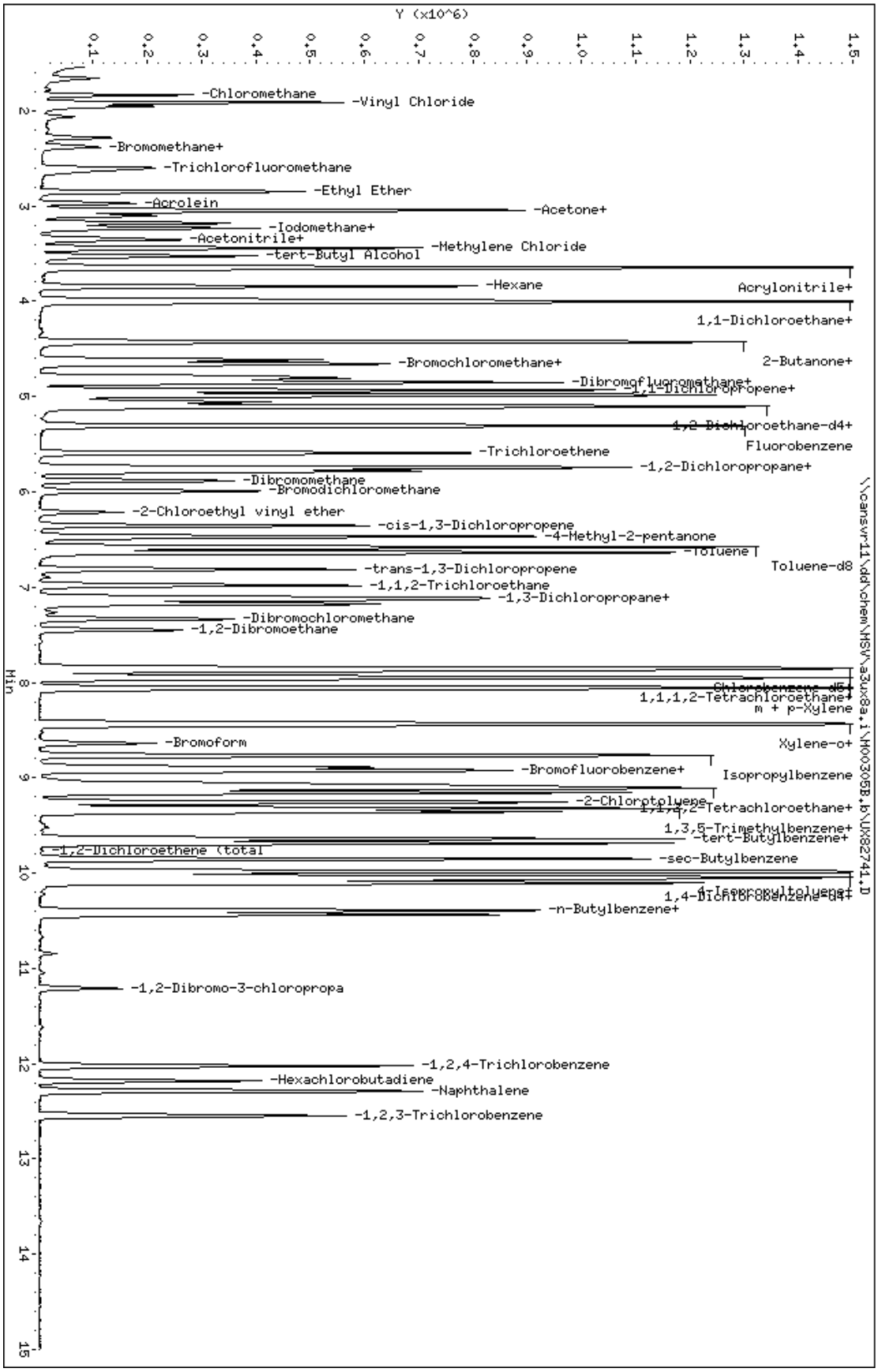
Instrument ID: a3ux8a.i
Lab File ID: UX82741.D
Lab Smp Id: CHECKDUP
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,,402279,3

Calibration Date: 05-MAR-2010
Calibration Time: 20:44
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1124023	562012	2248046	1114381	-0.86
2 Chlorobenzene-d5	872734	436367	1745468	875306	0.29
3 1,4-Dichlorobenze	452625	226313	905250	449368	-0.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.08
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	-0.03
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82741.D
Date : 05-MAR-2010 22:10
Client ID:
Sample Info: CHECKDUP
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWEQ81AA **Matrix.....:** SOLID
MB Lot-Sample #: A0C080000-386

Prep Date.....: 03/05/10
Analysis Date..: 03/05/10 **Prep Batch #...:** 0067386
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	**2.2 J**	**20**	**ug/kg**	**SW846 8260B**
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	**1.7 J**	**20**	**ug/kg**	**SW846 8260B**
Methylene chloride	**1.4 J**	**5.0**	**ug/kg**	**SW846 8260B**
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(61 - 130)
Toluene-d8	87	(85 - 115)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWEQ81AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4-Bromofluorobenzene	89	(85 - 120)		
Dibromofluoromethane	89	(59 - 138)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated: The analyte was positively identified; the quanitation is estimated.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82742.D
Report Date: 05-Mar-2010 23:36

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82742.D
Lab Smp Id: VBLK
Inj Date : 05-MAR-2010 22:32
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : VBLK,5G/5ML
Misc Info : M00305B,8260SUX8,,402279,3,,BLANK,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Meth Date : 05-Mar-2010 21:26 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40 Cal File: UX82639.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	5.306	5.304	(1.000)	1114072	250.000	
* 2 Chlorobenzene-d5	117	7.849	7.847	(1.000)	848888	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.039	10.037	(1.000)	442638	250.000	
$ 4 Dibromofluoromethane	113	4.789	4.787	(0.903)	207295	222.637	44.527
$ 5 1,2-Dichloroethane-d4	65	5.057	5.055	(0.953)	254074	216.551	43.310
$ 6 Toluene-d8	98	6.578	6.582	(1.240)	823990	217.707	43.541
$ 7 Bromofluorobenzene	95	8.926	8.924	(1.137)	307696	222.464	44.493
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	3.098	3.096	(0.584)	42879	28.6687	5.734
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	3.439	3.437	(0.648)	8028	7.19140	1.438

22 Acetonitrile	41	3.335	3.333 (0.629)	3943	19.7638	3.953
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82742.D
Report Date: 05-Mar-2010 23:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	4.430	4.428	(0.835)	10061	11.1662	2.233
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	6.468	6.466	(1.219)	3598	2.41612	0.4832
	50 Toluene	91	6.638	6.636	(0.846)	4686	1.08734	0.2175
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	7.174	7.172	(0.914)	8810	8.71564	1.743
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					
	76 tert-Butylbenzene	119	Compound Not Detected.					

77	1,2,4-Trimethylbenzene	105	Compound Not Detected.
78	sec-Butylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82742.D
Report Date: 05-Mar-2010 23:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
79 4-Isopropyltoluene	119	Compound Not Detected.					
80 1,3-Dichlorobenzene	146	Compound Not Detected.					
81 1,4-Dichlorobenzene	146	Compound Not Detected.					
82 n-Butylbenzene	91	Compound Not Detected.					
83 1,2-Dichlorobenzene	146	Compound Not Detected.					
84 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85 1,2,4-Trichlorobenzene	180	12.028	12.020	(1.198)	3538	2.81070	0.5621
86 Hexachlorobutadiene	225	Compound Not Detected.					
87 Naphthalene	128	12.284	12.288	(1.224)	15213	4.69869	0.9397
88 1,2,3-Trichlorobenzene	180	12.552	12.550	(1.250)	5040	4.11687	0.8234
14 Dichlorofluoromethane	67	Compound Not Detected.					
89 Ethyl Ether	59	Compound Not Detected.					
91 3-Chloropropene	76	Compound Not Detected.					
92 Isopropyl Ether	87	Compound Not Detected.					
93 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	Compound Not Detected.					
96 Methacrylonitrile	41	Compound Not Detected.					
97 Isobutanol	41	4.990	4.981	(0.636)	4329	92.8287	18.566
99 n-Butanol	56	Compound Not Detected.					
100 Methyl Methacrylate	41	Compound Not Detected.					
101 2-Nitropropane	41	Compound Not Detected.					
98 Cyclohexane	56	4.856	4.848	(0.915)	3262	1.27312	0.2546
143 Methyl Acetate	43	Compound Not Detected.					
144 Methylcyclohexane	83	Compound Not Detected.					
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
103 Cyclohexanone	55	8.883	8.887	(0.885)	5200	20.1342	4.027
155 tert-Butyl Ethyl ether	59	Compound Not Detected.					
156 tert-Amyl Methyl ether	73	Compound Not Detected.					
157 1,2,3-Trimethylbenzene	105	10.106	10.104	(1.007)	1923	0.51642	0.1033(aA)
146 2-Methylnaphthalene	142	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82742.D
Report Date: 05-Mar-2010 23:36

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux8a.i
Lab File ID: UX82742.D
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,,402279,3,,BLANK,,0

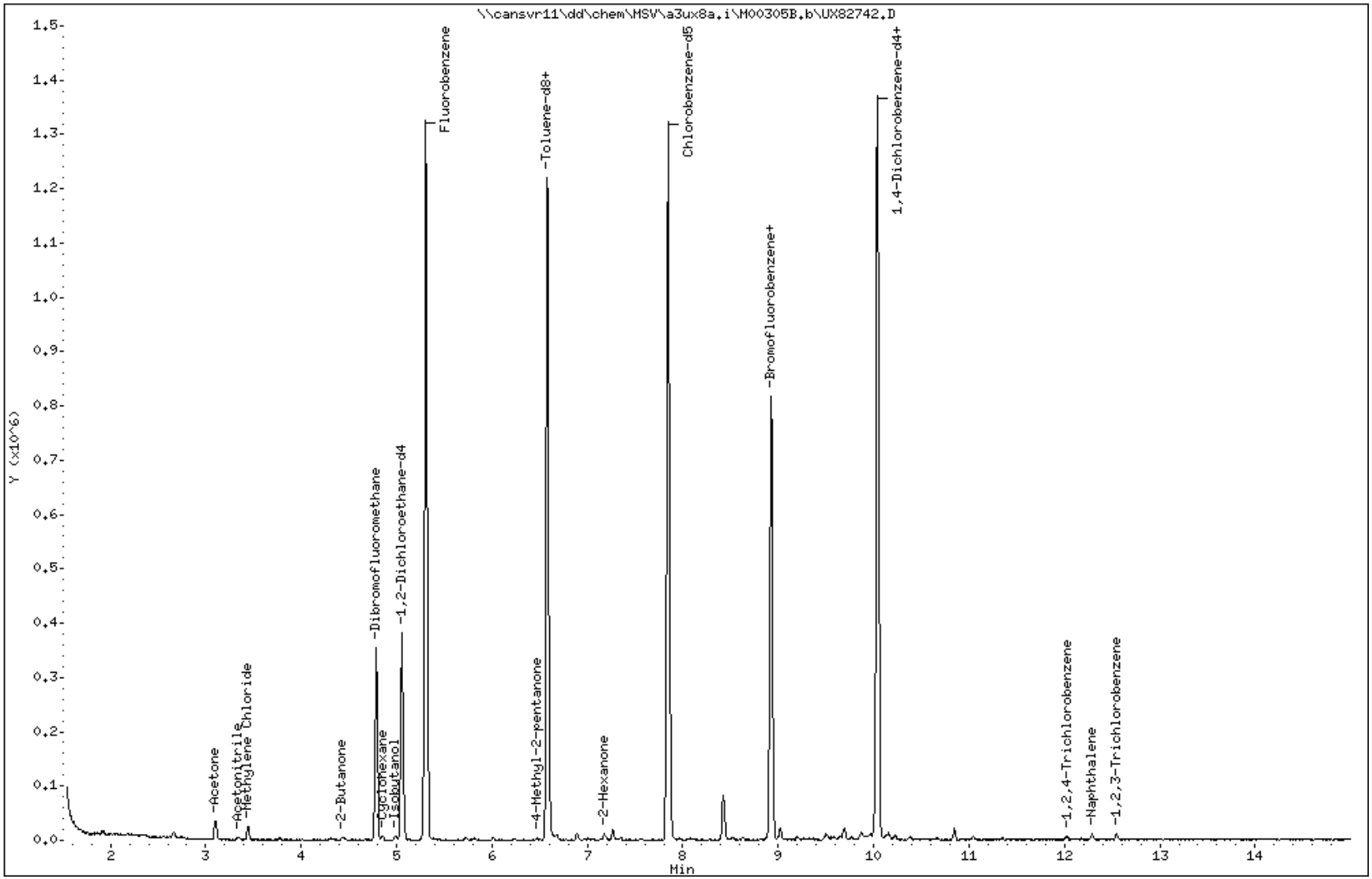
Calibration Date: 05-MAR-2010
Calibration Time: 20:44
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1124023	562012	2248046	1114072	-0.89
2 Chlorobenzene-d5	872734	436367	1745468	848888	-2.73
3 1,4-Dichlorobenze	452625	226313	905250	442638	-2.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.04
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	0.03
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82742.D
Date : 05-MAR-2010 22:32
Client ID:
Instrument: a3ux8a.i
Sample Info: VBLK,5G/5ML
Purge Volume: 5.0
Operator: 402279
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82742.D

Date : 05-MAR-2010 22:32

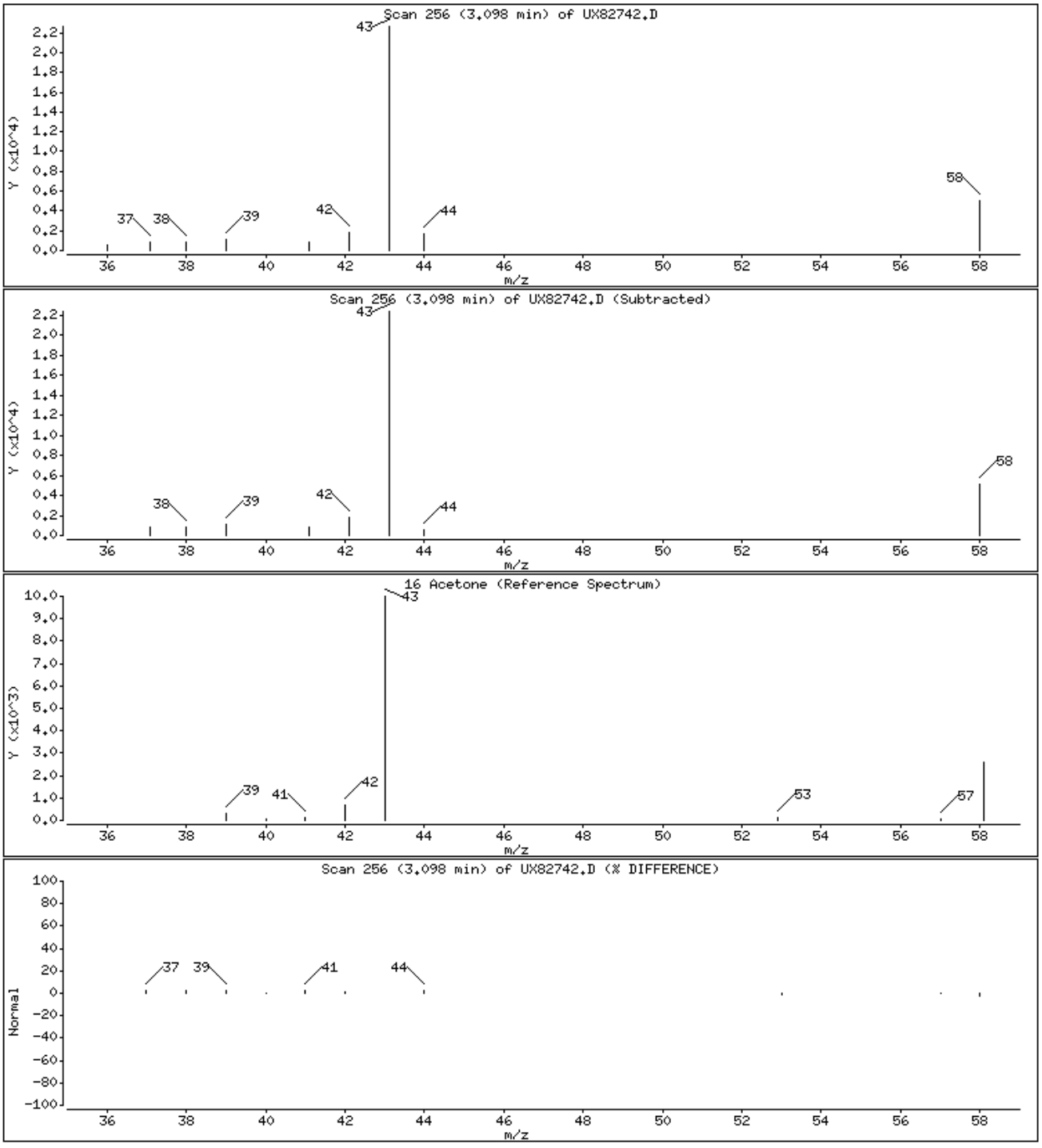
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 5.734 UG/KG



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Date : 05-MAR-2010 22:32

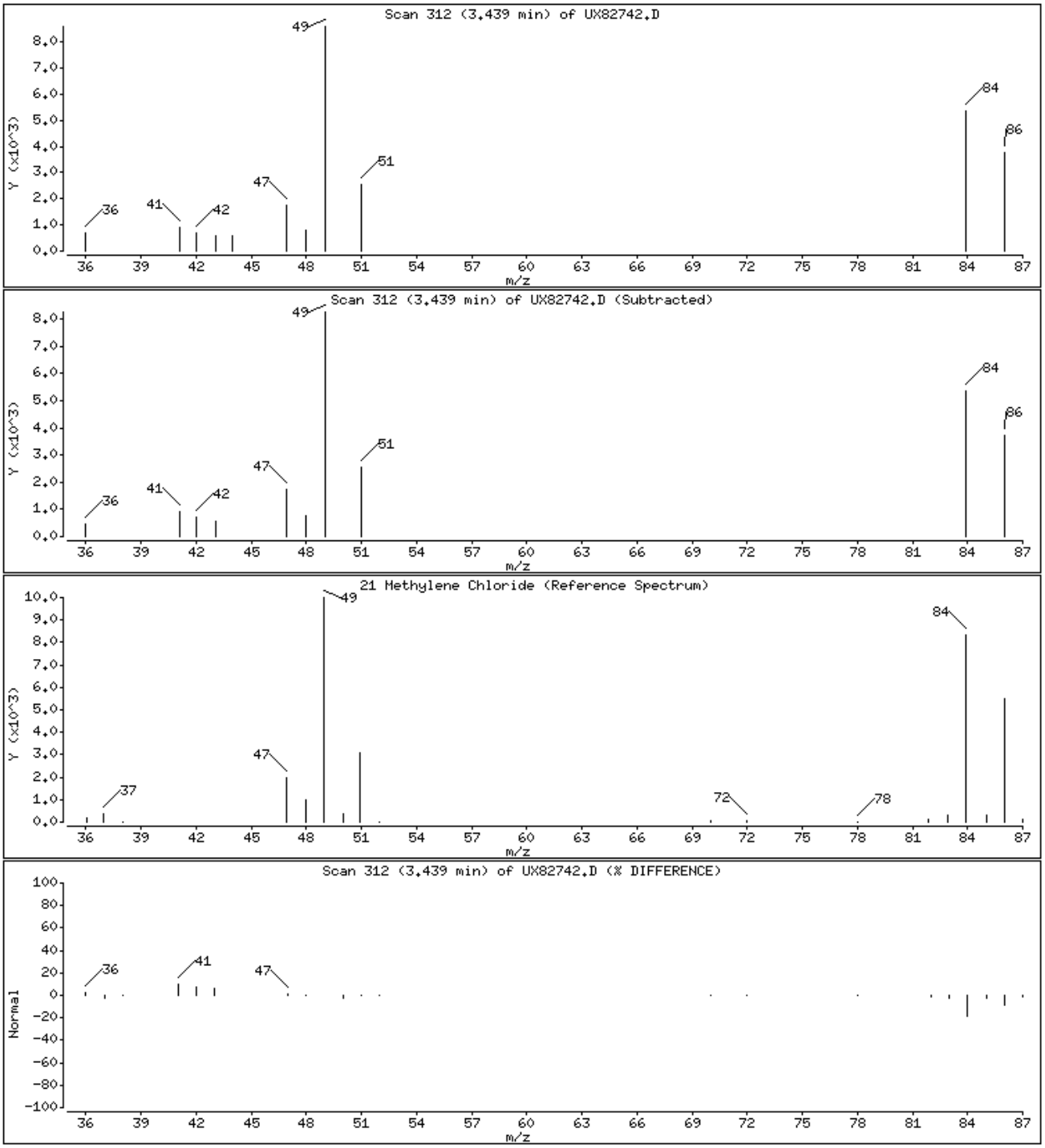
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

21 Methylene Chloride Concentration: 1.438 UG/KG



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Date : 05-MAR-2010 22:32

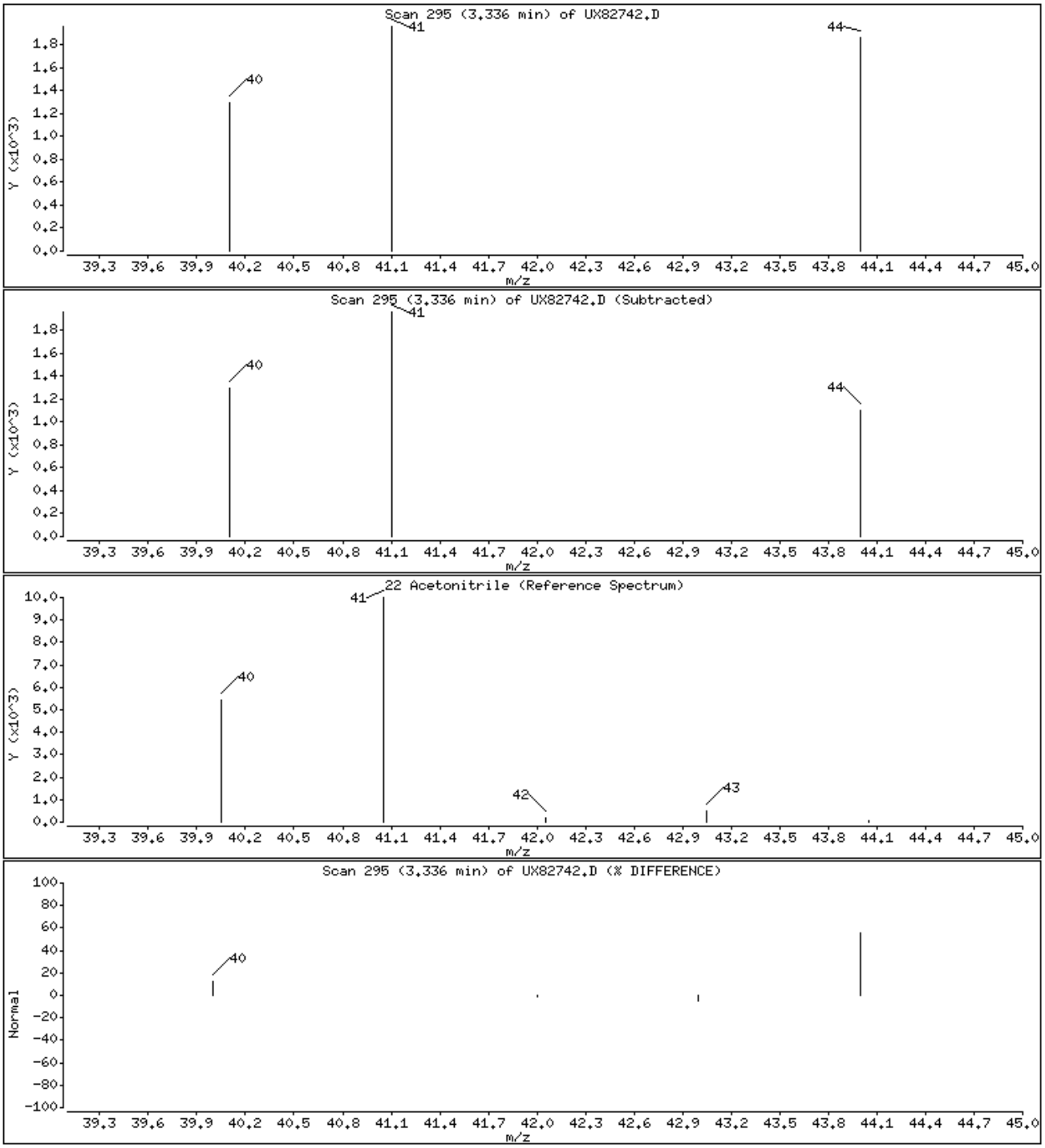
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

22 Acetonitrile Concentration: 3.953 UG/KG



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Date : 05-MAR-2010 22:32

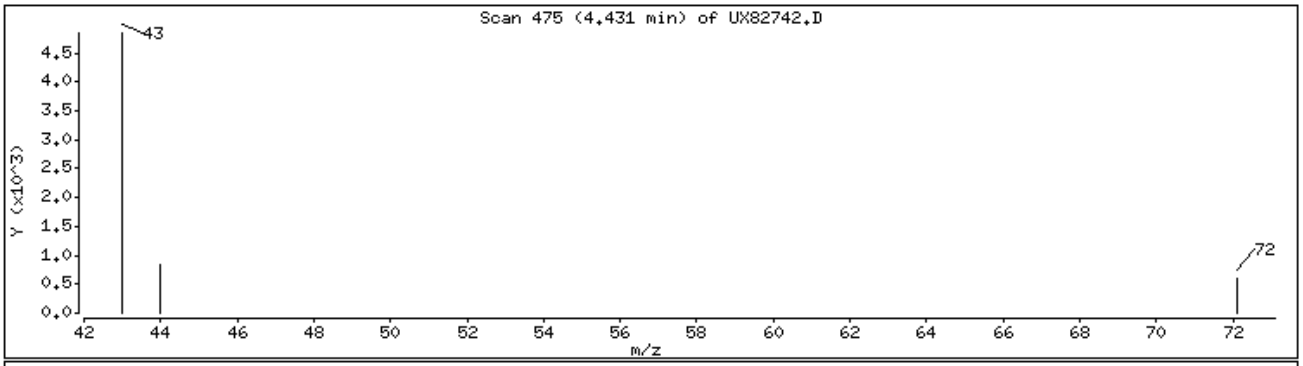
Client ID: Instrument: a3ux8a.i

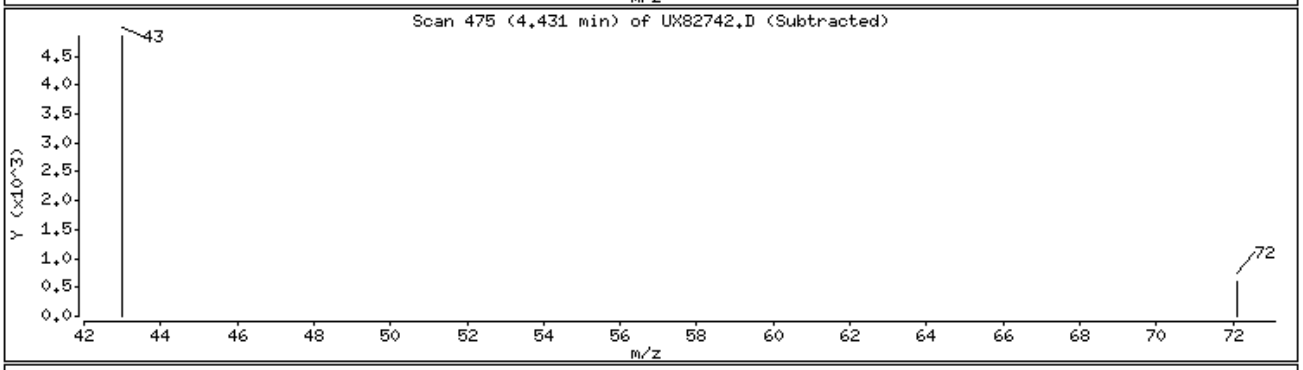
Sample Info: VBLK,5G/5ML

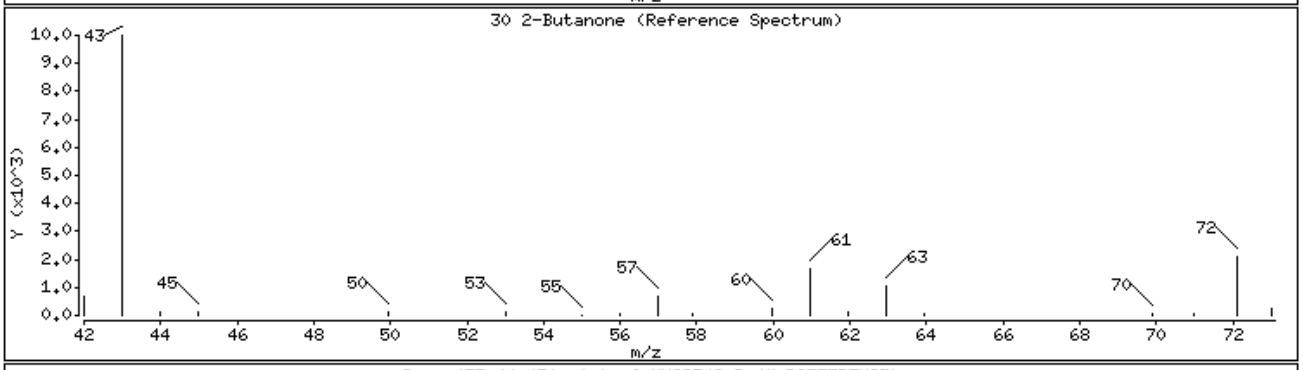
Purge Volume: 5.0 Operator: 402279

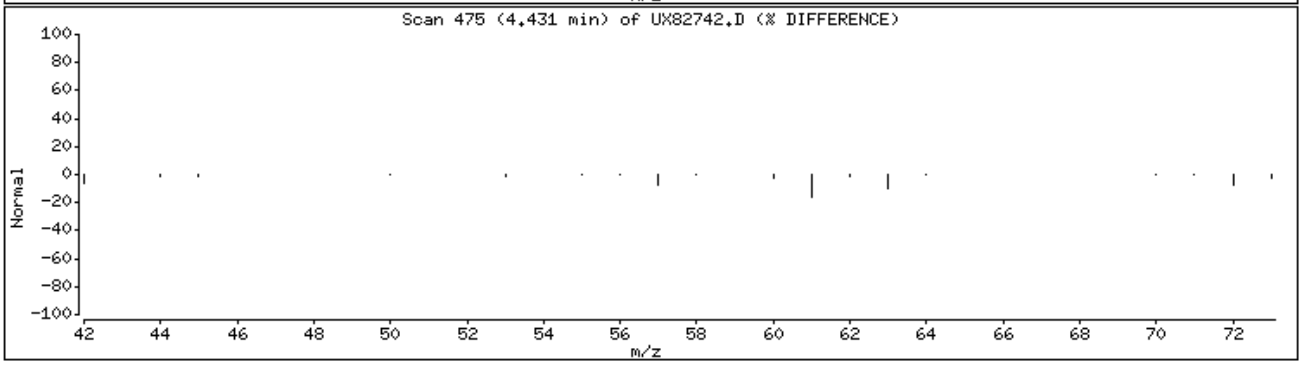
Column phase: DB624 Column diameter: 0.18

30 2-Butanone Concentration: 2.233 UG/KG









Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82742.D

Date : 05-MAR-2010 22:32

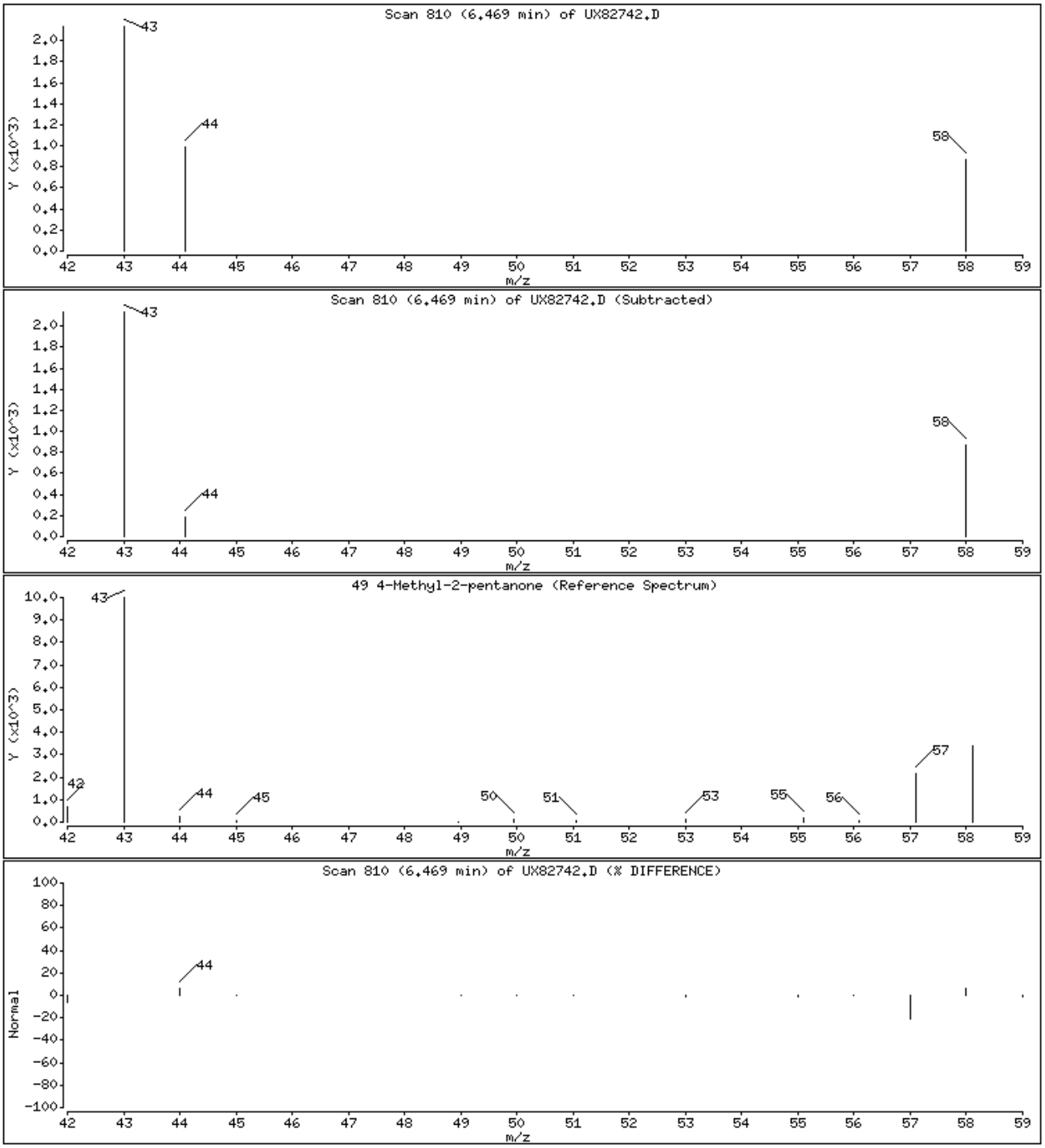
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

49 4-Methyl-2-pentanone Concentration: 0.4832 UG/KG



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Date : 05-MAR-2010 22:32

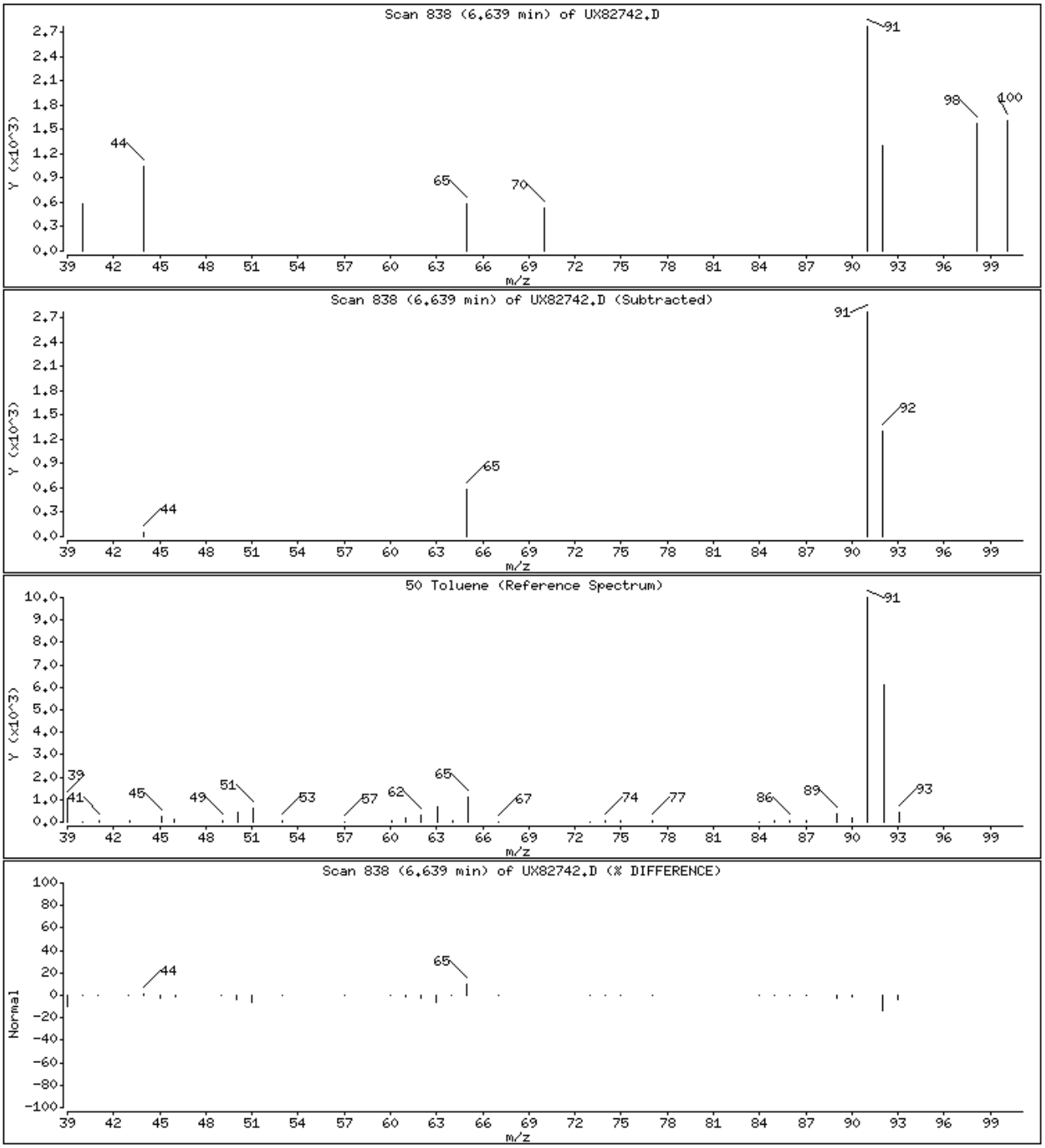
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

50 Toluene Concentration: 0.2175 UG/KG



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Date : 05-MAR-2010 22:32

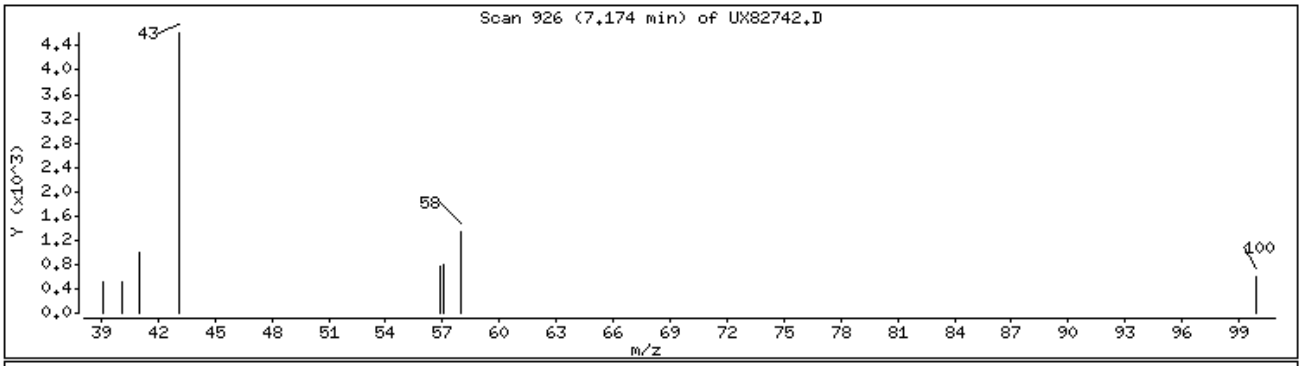
Client ID: Instrument: a3ux8a.i

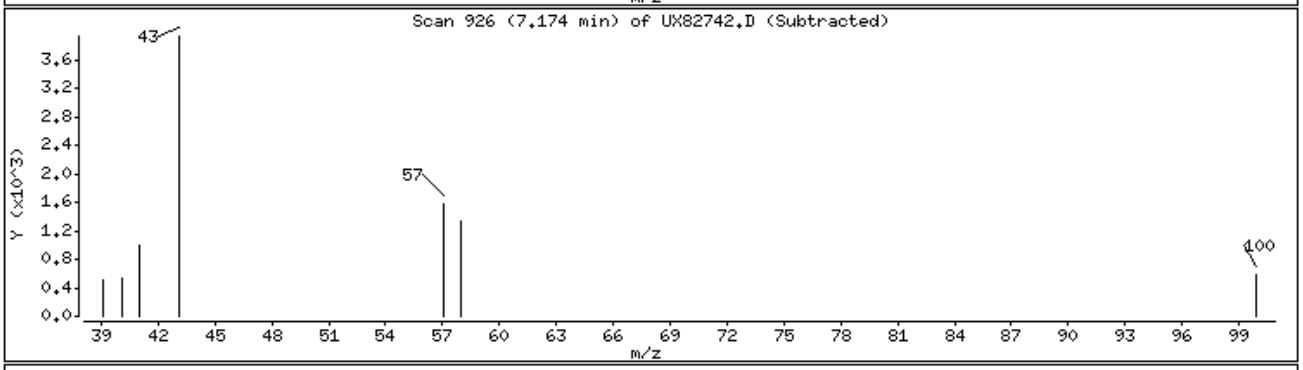
Sample Info: VBLK,5G/5ML

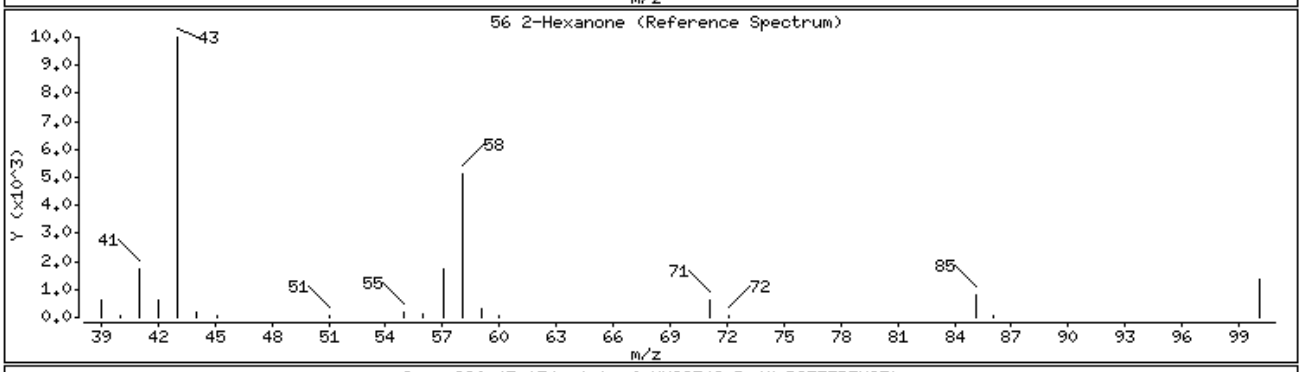
Purge Volume: 5.0 Operator: 402279

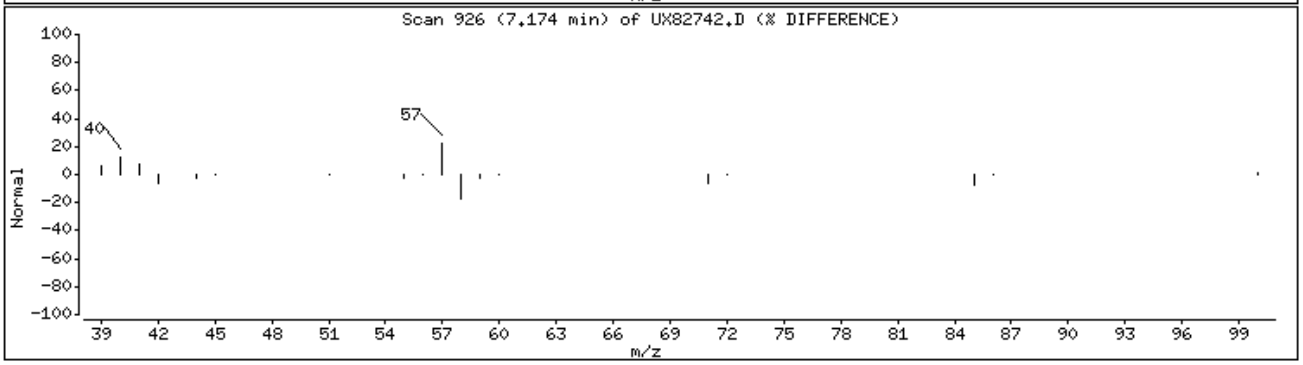
Column phase: DB624 Column diameter: 0.18

56 2-Hexanone Concentration: 1.743 UG/KG









Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82742.D

Date : 05-MAR-2010 22:32

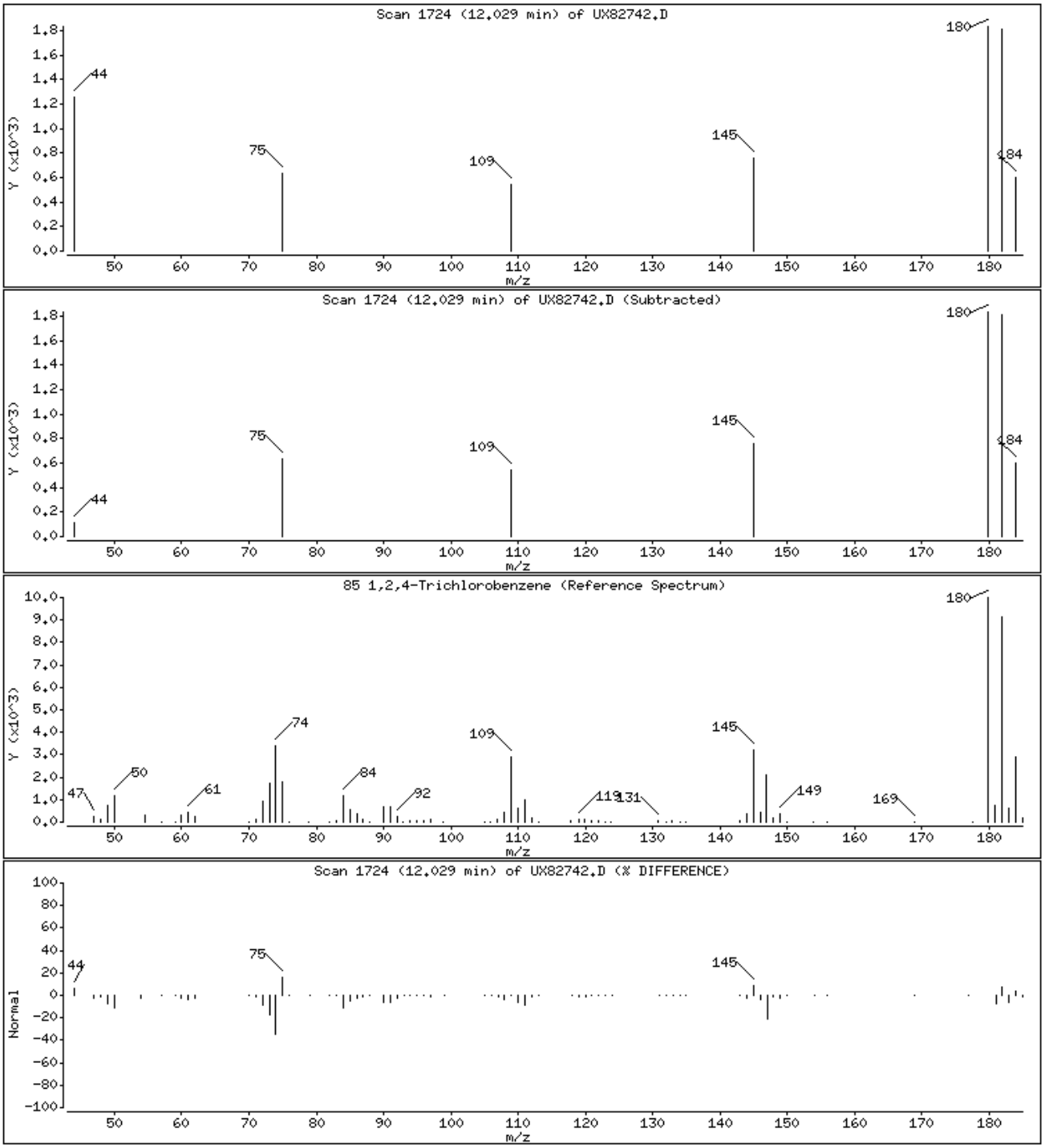
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

85 1,2,4-Trichlorobenzene Concentration: 0.5621 UG/KG



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Date : 05-MAR-2010 22:32

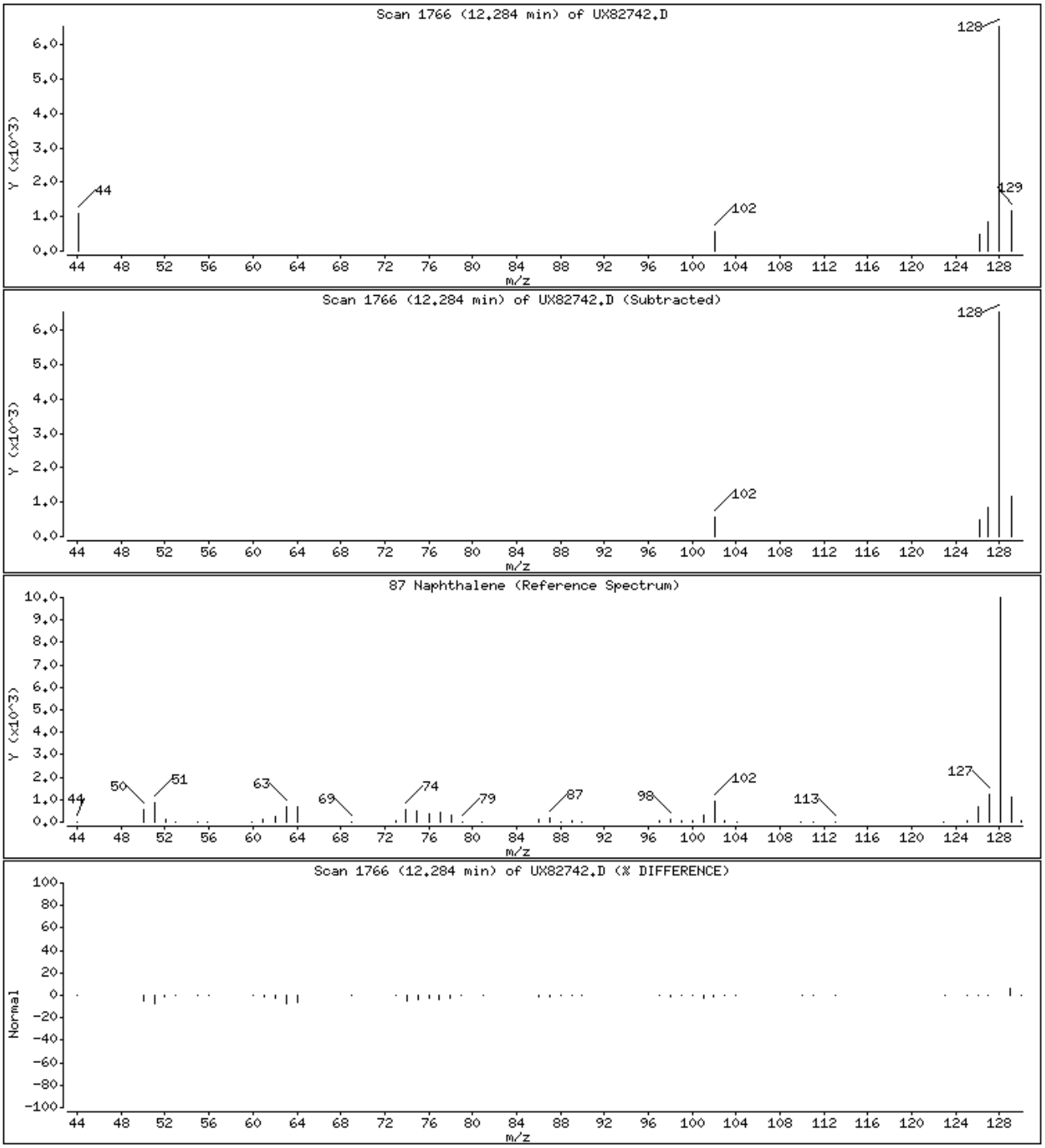
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

87 Naphthalene Concentration: 0.9397 UG/KG



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Date : 05-MAR-2010 22:32

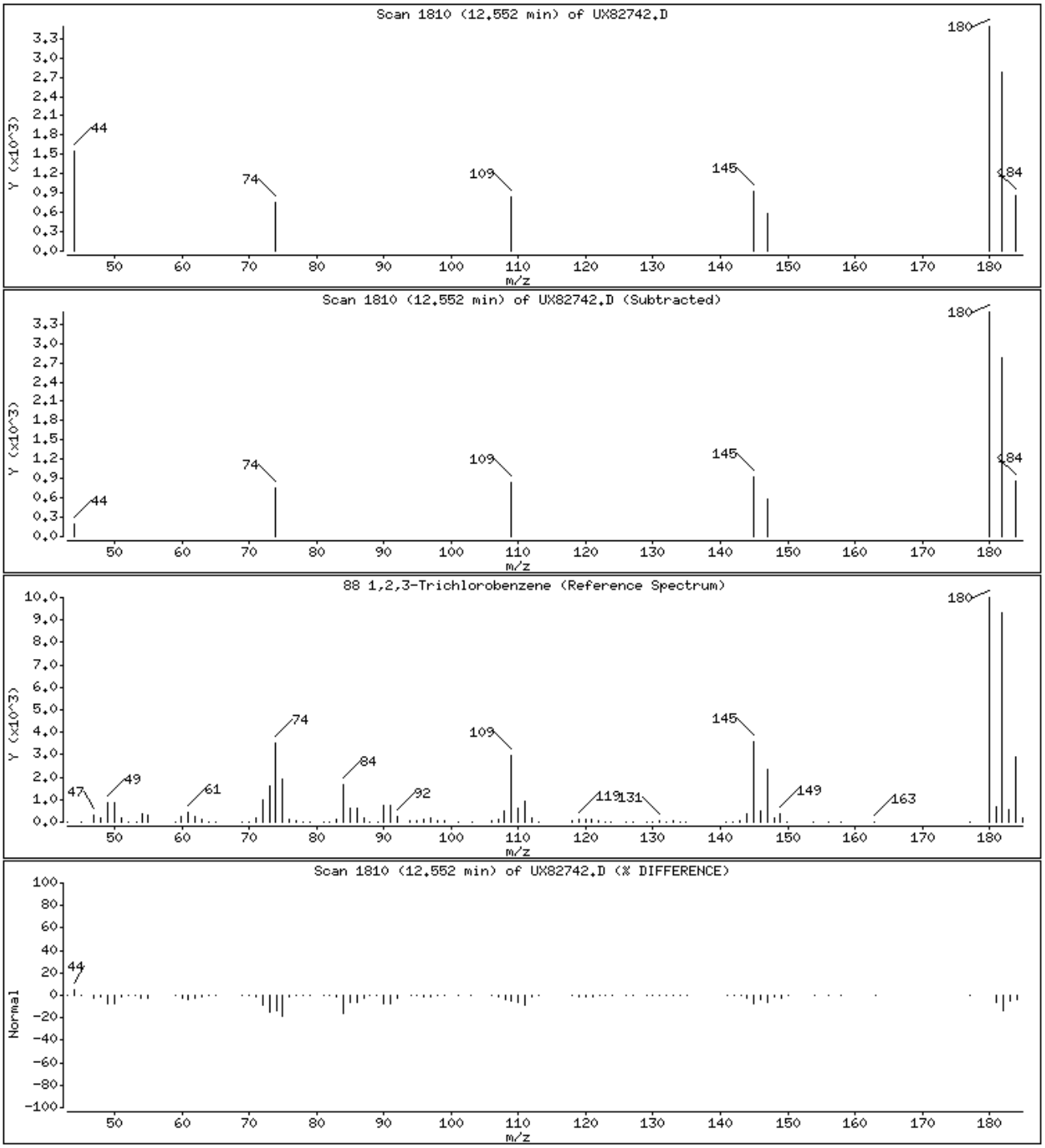
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

88 1,2,3-Trichlorobenzene Concentration: 0.8234 UG/KG



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Date : 05-MAR-2010 22:32

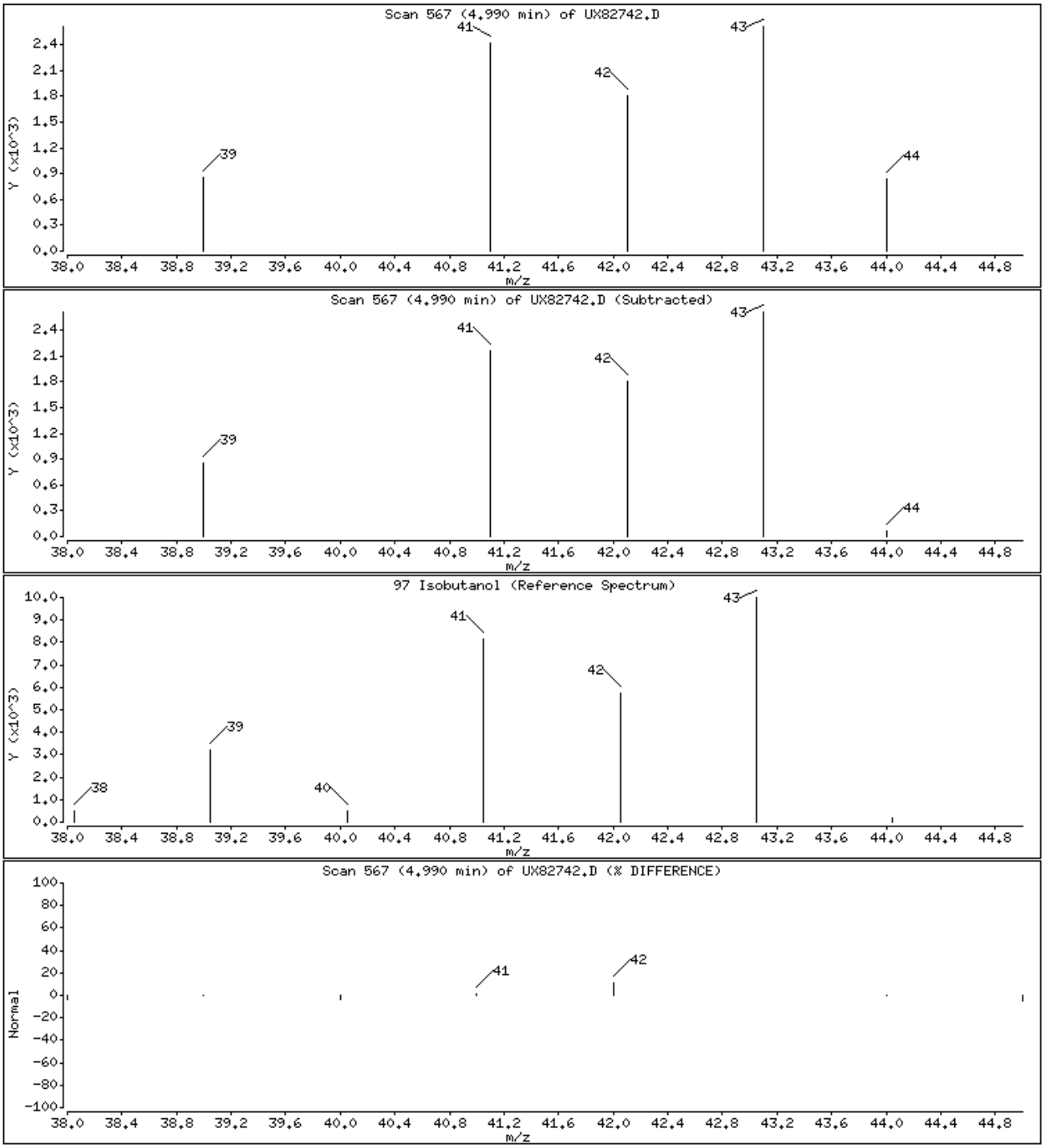
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

97 Isobutanol Concentration: 18.566 UG/KG



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Date : 05-MAR-2010 22:32

Client ID:

Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

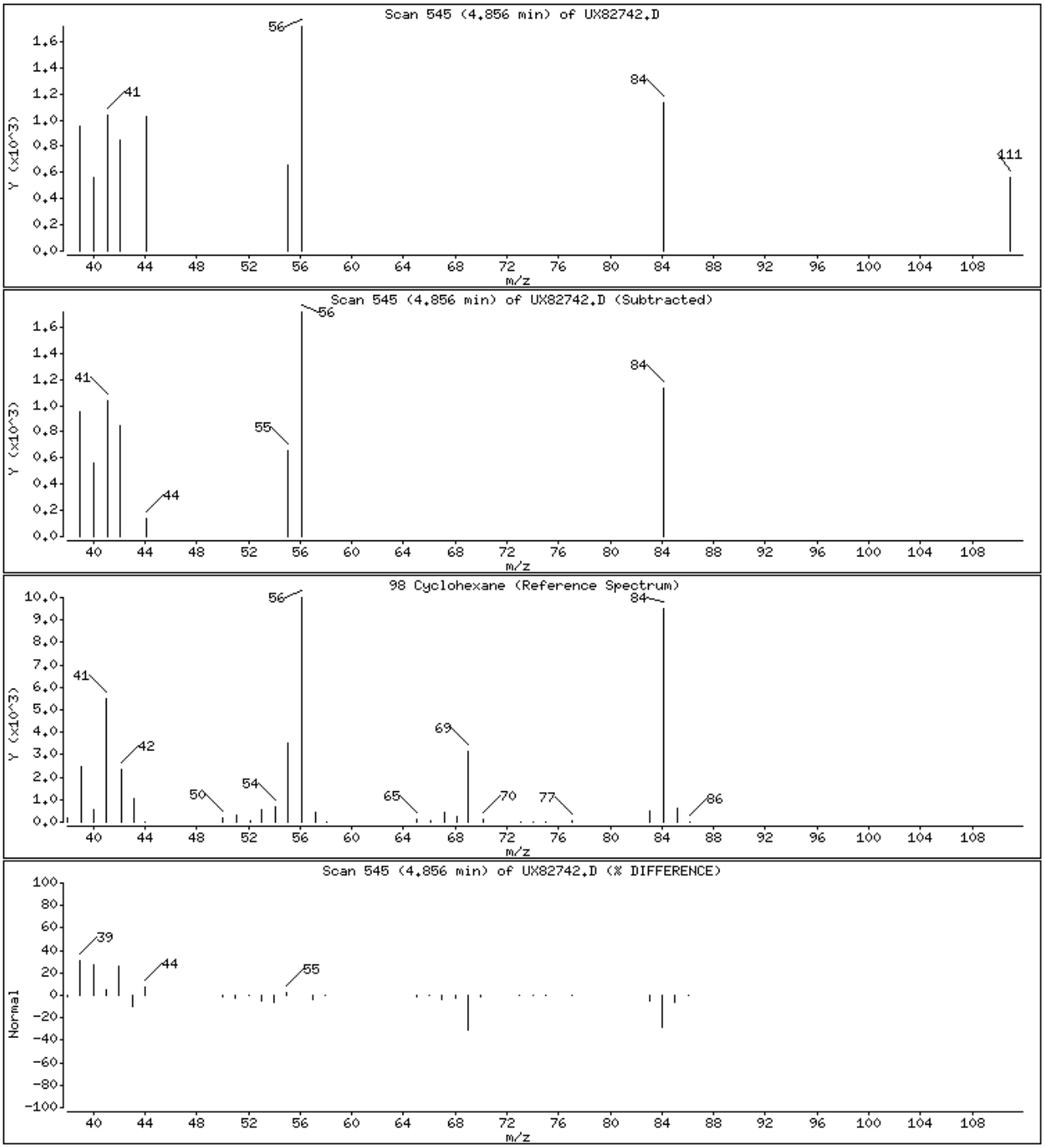
Operator: 402279

Column phase: DB624

Column diameter: 0.18

98 Cyclohexane

Concentration: 0.2546 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82742.D

Date : 05-MAR-2010 22:32

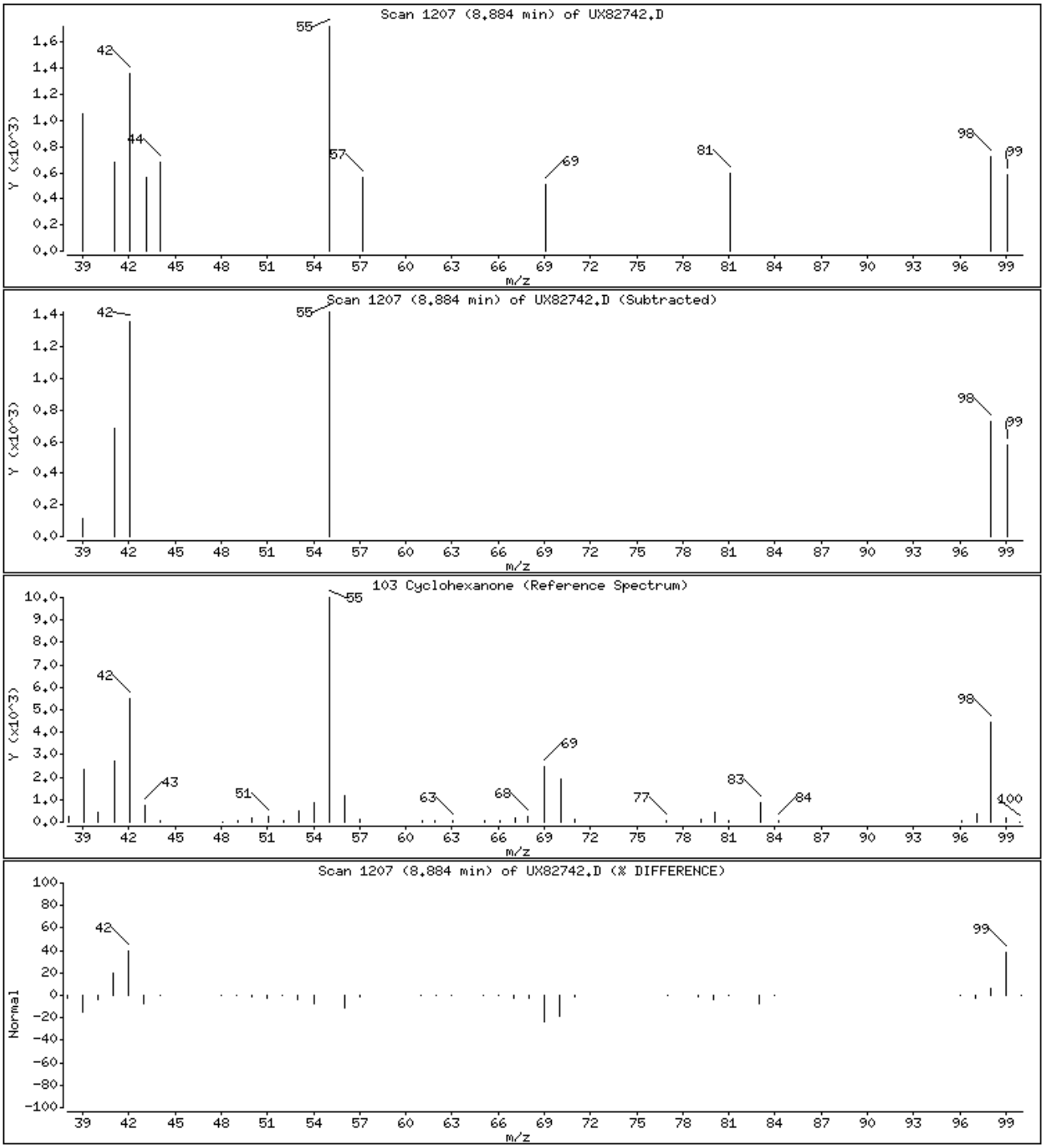
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

103 Cyclohexanone Concentration: 4.027 UG/KG



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Date : 05-MAR-2010 22:32

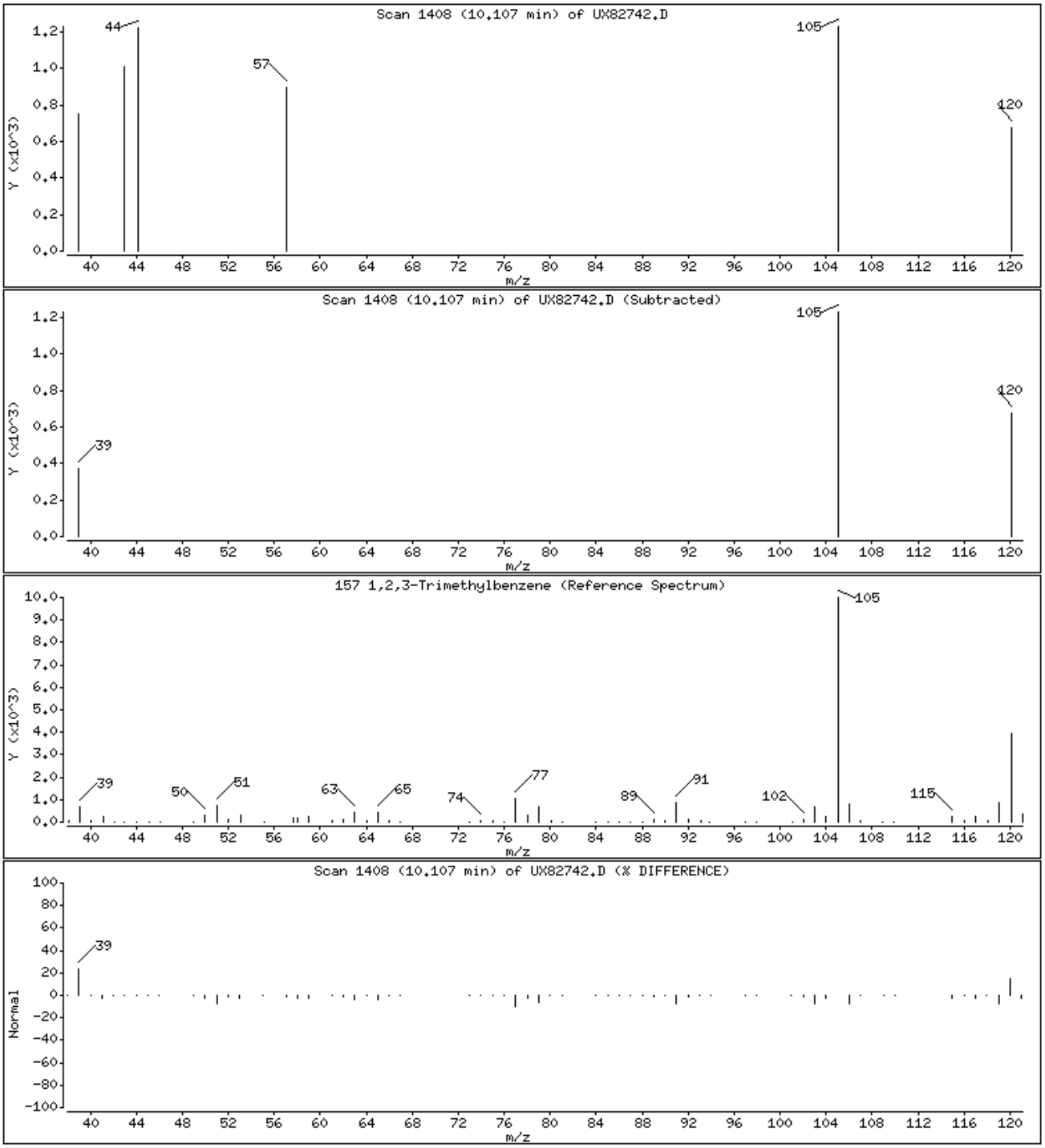
Client ID: Instrument: a3ux8a.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 402279

Column phase: DB624 Column diameter: 0.18

157 1,2,3-Trimethylbenzene Concentration: 0.1033 UG/KG



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CD-MSD
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/06/10
Prep Batch #...: 0067386
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	83	(65 - 135)			SW846 8260B
	90	(65 - 135)	9.2	(0-35)	SW846 8260B
Trichloroethene	62 a	(75 - 125)			SW846 8260B
	75	(75 - 125)	18	(0-30)	SW846 8260B
Benzene	74 a	(75 - 125)			SW846 8260B
	82	(75 - 125)	10	(0-30)	SW846 8260B
Toluene	63 a	(70 - 125)			SW846 8260B
	73	(70 - 125)	15	(0-30)	SW846 8260B
Chlorobenzene	57 a	(75 - 125)			SW846 8260B
	73 a	(75 - 125)	24	(0-30)	SW846 8260B
Acetone	82	(20 - 160)			SW846 8260B
	89	(20 - 160)	7.0	(0-37)	SW846 8260B
Bromodichloromethane	73	(70 - 130)			SW846 8260B
	87	(70 - 130)	17	(0-30)	SW846 8260B
Bromoform	58	(55 - 135)			SW846 8260B
	70	(55 - 135)	20	(0-30)	SW846 8260B
Bromomethane	85	(30 - 160)			SW846 8260B
	91	(30 - 160)	6.0	(0-30)	SW846 8260B
2-Butanone	74	(30 - 160)			SW846 8260B
	80	(30 - 160)	8.0	(0-33)	SW846 8260B
Bromochloromethane	77	(70 - 125)			SW846 8260B
	87	(70 - 125)	12	(0-30)	SW846 8260B
Carbon disulfide	80	(45 - 160)			SW846 8260B
	90	(45 - 160)	11	(0-36)	SW846 8260B
Carbon tetrachloride	77	(65 - 135)			SW846 8260B
	88	(65 - 135)	14	(0-30)	SW846 8260B
Chloroethane	90	(40 - 155)			SW846 8260B
	94	(40 - 155)	4.4	(0-30)	SW846 8260B
Chloroform	79	(70 - 125)			SW846 8260B
	83	(70 - 125)	4.8	(0-30)	SW846 8260B
Chloromethane	80	(50 - 130)			SW846 8260B
	82	(50 - 130)	2.5	(0-30)	SW846 8260B
1,2-Dibromoethane	63 a	(70 - 125)			SW846 8260B
	78	(70 - 125)	21	(0-30)	SW846 8260B
1,1-Dichloroethane	79	(75 - 125)			SW846 8260B
	88	(75 - 125)	11	(0-47)	SW846 8260B
1,2-Dichloroethane	73	(70 - 135)			SW846 8260B
	82	(70 - 135)	13	(0-43)	SW846 8260B
1,2-Dichloropropane	74	(70 - 120)			SW846 8260B
	85	(70 - 120)	14	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	56 a	(70 - 125)			SW846 8260B
	72	(70 - 125)	25	(0-40)	SW846 8260B
trans-1,3-Dichloropropene	58 a	(65 - 125)			SW846 8260B
	73	(65 - 125)	22	(0-31)	SW846 8260B
Ethylbenzene	60 a	(75 - 125)			SW846 8260B
	76	(75 - 125)	23	(0-30)	SW846 8260B
2-Hexanone	72	(45 - 145)			SW846 8260B
	83	(45 - 145)	14	(0-31)	SW846 8260B
Methylene chloride	74	(55 - 140)			SW846 8260B
	80	(55 - 140)	6.5	(0-30)	SW846 8260B
4-Methyl-2-pentanone	75	(45 - 145)			SW846 8260B
	88	(45 - 145)	15	(0-39)	SW846 8260B
Styrene	51 a	(75 - 125)			SW846 8260B
	71 a,p	(75 - 125)	32	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	96	(55 - 130)			SW846 8260B
	93	(55 - 130)	2.8	(0-30)	SW846 8260B
Tetrachloroethene	65	(65 - 140)			SW846 8260B
	78	(65 - 140)	18	(0-30)	SW846 8260B
1,1,2-Trichloroethane	74	(60 - 125)			SW846 8260B
	82	(60 - 125)	11	(0-30)	SW846 8260B
1,1,1-Trichloroethane	76	(70 - 135)			SW846 8260B
	85	(70 - 135)	11	(0-30)	SW846 8260B
Xylenes (total)	60	(37 - 162)			SW846 8260B
	77	(37 - 162)	25	(0-30)	SW846 8260B
Vinyl chloride	80	(60 - 125)			SW846 8260B
	85	(60 - 125)	6.0	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro-propane	65	(40 - 135)			SW846 8260B
	69	(40 - 135)	6.3	(0-30)	SW846 8260B
1,3-Dichlorobenzene	48 a	(70 - 125)			SW846 8260B
	64 a	(70 - 125)	29	(0-30)	SW846 8260B
1,4-Dichlorobenzene	45 a	(70 - 125)			SW846 8260B
	60 a	(70 - 125)	29	(0-30)	SW846 8260B
1,2-Dichlorobenzene	49 a	(75 - 120)			SW846 8260B
	64 a	(75 - 120)	27	(0-30)	SW846 8260B
Dichlorodifluoromethane	64	(35 - 135)			SW846 8260B
	66	(35 - 135)	2.7	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	78	(65 - 135)			SW846 8260B
	87	(65 - 135)	11	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	73	(65 - 125)			SW846 8260B
	82	(65 - 125)	12	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Naphthalene	25 a	(40 - 125)			SW846 8260B
	45 p	(40 - 125)	56	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	78	(75 - 125)			SW846 8260B
	88	(75 - 125)	12	(0-30)	SW846 8260B
Trichlorofluoromethane	88	(25 - 185)			SW846 8260B
	92	(25 - 185)	5.3	(0-30)	SW846 8260B
o-Xylene	62 a	(75 - 125)			SW846 8260B
	78	(75 - 125)	23	(0-30)	SW846 8260B
m-Xylene & p-Xylene	58 a	(80 - 125)			SW846 8260B
	76 a	(80 - 125)	26	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	86	(40 - 140)			SW846 8260B
	96	(40 - 140)	10	(0-50)	SW846 8260B
Isopropylbenzene	58 a	(75 - 130)			SW846 8260B
	78	(75 - 130)	28	(0-30)	SW846 8260B
1,1-Dichloropropene	74	(70 - 135)			SW846 8260B
	83	(70 - 135)	12	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	23 a	(60 - 135)			SW846 8260B
	39 a,p	(60 - 135)	54	(0-30)	SW846 8260B
1,2,3-Trichloropropane	101	(65 - 130)			SW846 8260B
	97	(65 - 130)	4.0	(0-30)	SW846 8260B
1,2,4-Trichloro-benzene	23 a	(65 - 130)			SW846 8260B
	39 a,p	(65 - 130)	51	(0-30)	SW846 8260B
2,2-Dichloropropane	76	(65 - 135)			SW846 8260B
	83	(65 - 135)	9.0	(0-30)	SW846 8260B
2-Chlorotoluene	69 a	(70 - 130)			SW846 8260B
	81	(70 - 130)	16	(0-30)	SW846 8260B
4-Chlorotoluene	59 a	(75 - 125)			SW846 8260B
	73 a	(75 - 125)	22	(0-30)	SW846 8260B
Bromobenzene	64 a	(65 - 120)			SW846 8260B
	74	(65 - 120)	15	(0-30)	SW846 8260B
Dibromomethane	69 a	(75 - 130)			SW846 8260B
	84	(75 - 130)	19	(0-30)	SW846 8260B
Hexachlorobutadiene	38 a	(55 - 140)			SW846 8260B
	60	(55 - 140)	44	(0-50)	SW846 8260B
n-Butylbenzene	45 a	(65 - 140)			SW846 8260B
	67 p	(65 - 140)	40	(0-30)	SW846 8260B
n-Propylbenzene	68	(65 - 135)			SW846 8260B
	84	(65 - 135)	21	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
p-Isopropyltoluene	**60 a**	**(75 - 135)**			**SW846 8260B**
	80	**(75 - 135)**	**28**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**66**	**(65 - 130)**			**SW846 8260B**
	84	**(65 - 130)**	**24**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**77**	**(65 - 130)**			**SW846 8260B**
	89	**(65 - 130)**	**14**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**68**	**(65 - 135)**			**SW846 8260B**
	85	**(65 - 135)**	**22**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**73**	**(65 - 135)**			**SW846 8260B**
	86	**(65 - 135)**	**17**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(61 - 130)
	86	(61 - 130)
Toluene-d8	88	(85 - 115)
	92	(85 - 115)
4-Bromofluorobenzene	80 *	(85 - 120)
	86	(85 - 120)
Dibromofluoromethane	92	(59 - 138)
	92	(59 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CD-MSD
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/06/10
Prep Batch #...: 0067386
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	61	51	ug/kg	83		SW846 8260B
	ND	61	55	ug/kg	90	9.2	SW846 8260B
Trichloroethene	ND	61	38	ug/kg	62 a		SW846 8260B
	ND	61	46	ug/kg	75	18	SW846 8260B
Benzene	ND	61	45	ug/kg	74 a		SW846 8260B
	ND	61	50	ug/kg	82	10	SW846 8260B
Toluene	ND	61	38	ug/kg	63 a		SW846 8260B
	ND	61	45	ug/kg	73	15	SW846 8260B
Chlorobenzene	ND	61	35	ug/kg	57 a		SW846 8260B
	ND	61	45	ug/kg	73 a	24	SW846 8260B
Acetone	11	120	110	ug/kg	82		SW846 8260B
	11	120	120	ug/kg	89	7.0	SW846 8260B
Bromodichloromethane	ND	61	45	ug/kg	73		SW846 8260B
	ND	61	53	ug/kg	87	17	SW846 8260B
Bromoform	ND	61	35	ug/kg	58		SW846 8260B
	ND	61	43	ug/kg	70	20	SW846 8260B
Bromomethane	ND	61	52	ug/kg	85		SW846 8260B
	ND	61	56	ug/kg	91	6.0	SW846 8260B
2-Butanone	ND	120	91	ug/kg	74		SW846 8260B
	ND	120	98	ug/kg	80	8.0	SW846 8260B
Bromochloromethane	ND	61	47	ug/kg	77		SW846 8260B
	ND	61	53	ug/kg	87	12	SW846 8260B
Carbon disulfide	ND	61	49	ug/kg	80		SW846 8260B
	ND	61	55	ug/kg	90	11	SW846 8260B
Carbon tetrachloride	ND	61	47	ug/kg	77		SW846 8260B
	ND	61	54	ug/kg	88	14	SW846 8260B
Chloroethane	ND	61	55	ug/kg	90		SW846 8260B
	ND	61	57	ug/kg	94	4.4	SW846 8260B
Chloroform	ND	61	48	ug/kg	79		SW846 8260B
	ND	61	51	ug/kg	83	4.8	SW846 8260B
Chloromethane	ND	61	49	ug/kg	80		SW846 8260B
	ND	61	50	ug/kg	82	2.5	SW846 8260B
1,2-Dibromoethane	ND	61	39	ug/kg	63 a		SW846 8260B
	ND	61	48	ug/kg	78	21	SW846 8260B
1,1-Dichloroethane	ND	61	49	ug/kg	79		SW846 8260B
	ND	61	54	ug/kg	88	11	SW846 8260B
1,2-Dichloroethane	ND	61	44	ug/kg	73		SW846 8260B
	ND	61	50	ug/kg	82	13	SW846 8260B
1,2-Dichloropropane	ND	61	45	ug/kg	74		SW846 8260B
	ND	61	52	ug/kg	85	14	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	61	34	ug/kg	56 a		SW846 8260B
	ND	61	44	ug/kg	72	25	SW846 8260B
trans-1,3-Dichloropropene	ND	61	36	ug/kg	58 a		SW846 8260B
	ND	61	44	ug/kg	73	22	SW846 8260B
Ethylbenzene	ND	61	37	ug/kg	60 a		SW846 8260B
	ND	61	46	ug/kg	76	23	SW846 8260B
2-Hexanone	ND	120	88	ug/kg	72		SW846 8260B
	ND	120	100	ug/kg	83	14	SW846 8260B
Methylene chloride	6.8	61	52	ug/kg	74		SW846 8260B
	6.8	61	56	ug/kg	80	6.5	SW846 8260B
4-Methyl-2-pentanone	ND	120	92	ug/kg	75		SW846 8260B
	ND	120	110	ug/kg	88	15	SW846 8260B
Styrene	ND	61	31	ug/kg	51 a		SW846 8260B
	ND	61	44	ug/kg	71 a,p	32	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	61	59	ug/kg	96		SW846 8260B
	ND	61	57	ug/kg	93	2.8	SW846 8260B
Tetrachloroethene	ND	61	40	ug/kg	65		SW846 8260B
	ND	61	48	ug/kg	78	18	SW846 8260B
1,1,2-Trichloroethane	ND	61	45	ug/kg	74		SW846 8260B
	ND	61	50	ug/kg	82	11	SW846 8260B
1,1,1-Trichloroethane	ND	61	46	ug/kg	76		SW846 8260B
	ND	61	52	ug/kg	85	11	SW846 8260B
Xylenes (total)	ND	180	110	ug/kg	60		SW846 8260B
	ND	180	140	ug/kg	77	25	SW846 8260B
Vinyl chloride	ND	61	49	ug/kg	80		SW846 8260B
	ND	61	52	ug/kg	85	6.0	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	61	40	ug/kg	65		SW846 8260B
	ND	61	42	ug/kg	69	6.3	SW846 8260B
1,3-Dichlorobenzene	ND	61	30	ug/kg	48 a		SW846 8260B
	ND	61	39	ug/kg	64 a	29	SW846 8260B
1,4-Dichlorobenzene	ND	61	27	ug/kg	45 a		SW846 8260B
	ND	61	37	ug/kg	60 a	29	SW846 8260B
1,2-Dichlorobenzene	ND	61	30	ug/kg	49 a		SW846 8260B
	ND	61	39	ug/kg	64 a	27	SW846 8260B
Dichlorodifluoromethane	ND	61	39	ug/kg	64		SW846 8260B
	ND	61	40	ug/kg	66	2.7	SW846 8260B
trans-1,2-Dichloroethene	ND	61	48	ug/kg	78		SW846 8260B
	ND	61	53	ug/kg	87	11	SW846 8260B
cis-1,2-Dichloroethene	ND	61	45	ug/kg	73		SW846 8260B
	ND	61	50	ug/kg	82	12	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Naphthalene	**ND**	**61**	**16**	**ug/kg**	**25 a**		**SW846 8260B**
	ND	**61**	**28**	**ug/kg**	**45 p**	**56**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**ND**	**61**	**48**	**ug/kg**	**78**		**SW846 8260B**
	ND	**61**	**54**	**ug/kg**	**88**	**12**	**SW846 8260B**
Trichlorofluoromethane	**ND**	**61**	**54**	**ug/kg**	**88**		**SW846 8260B**
	ND	**61**	**57**	**ug/kg**	**92**	**5.3**	**SW846 8260B**
o-Xylene	**ND**	**61**	**38**	**ug/kg**	**62 a**		**SW846 8260B**
	ND	**61**	**48**	**ug/kg**	**78**	**23**	**SW846 8260B**
m-Xylene & p-Xylene	**ND**	**120**	**72**	**ug/kg**	**58 a**		**SW846 8260B**
	ND	**120**	**93**	**ug/kg**	**76 a**	**26**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**ND**	**61**	**53**	**ug/kg**	**86**		**SW846 8260B**
	ND	**61**	**59**	**ug/kg**	**96**	**10**	**SW846 8260B**
Isopropylbenzene	**ND**	**61**	**36**	**ug/kg**	**58 a**		**SW846 8260B**
	ND	**61**	**48**	**ug/kg**	**78**	**28**	**SW846 8260B**
1,1-Dichloropropene	**ND**	**61**	**45**	**ug/kg**	**74**		**SW846 8260B**
	ND	**61**	**51**	**ug/kg**	**83**	**12**	**SW846 8260B**
1,2,3-Trichlorobenzene	**ND**	**61**	**14**	**ug/kg**	**23 a**		**SW846 8260B**
	ND	**61**	**24**	**ug/kg**	**39 a,p**	**54**	**SW846 8260B**
1,2,3-Trichloropropane	**ND**	**61**	**62**	**ug/kg**	**101**		**SW846 8260B**
	ND	**61**	**59**	**ug/kg**	**97**	**4.0**	**SW846 8260B**
1,2,4-Trichloro- benzene	**ND**	**61**	**14**	**ug/kg**	**23 a**		**SW846 8260B**
	ND	**61**	**24**	**ug/kg**	**39 a,p**	**51**	**SW846 8260B**
2,2-Dichloropropane	**ND**	**61**	**46**	**ug/kg**	**76**		**SW846 8260B**
	ND	**61**	**51**	**ug/kg**	**83**	**9.0**	**SW846 8260B**
2-Chlorotoluene	**ND**	**61**	**42**	**ug/kg**	**69 a**		**SW846 8260B**
	ND	**61**	**49**	**ug/kg**	**81**	**16**	**SW846 8260B**
4-Chlorotoluene	**ND**	**61**	**36**	**ug/kg**	**59 a**		**SW846 8260B**
	ND	**61**	**45**	**ug/kg**	**73 a**	**22**	**SW846 8260B**
Bromobenzene	**ND**	**61**	**39**	**ug/kg**	**64 a**		**SW846 8260B**
	ND	**61**	**45**	**ug/kg**	**74**	**15**	**SW846 8260B**
Dibromomethane	**ND**	**61**	**42**	**ug/kg**	**69 a**		**SW846 8260B**
	ND	**61**	**51**	**ug/kg**	**84**	**19**	**SW846 8260B**
Hexachlorobutadiene	**ND**	**61**	**23**	**ug/kg**	**38 a**		**SW846 8260B**
	ND	**61**	**36**	**ug/kg**	**60**	**44**	**SW846 8260B**
n-Butylbenzene	**ND**	**61**	**28**	**ug/kg**	**45 a**		**SW846 8260B**
	ND	**61**	**41**	**ug/kg**	**67 p**	**40**	**SW846 8260B**
n-Propylbenzene	**ND**	**61**	**41**	**ug/kg**	**68**		**SW846 8260B**
	ND	**61**	**51**	**ug/kg**	**84**	**21**	**SW846 8260B**

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
p-Isopropyltoluene	**ND**	**61**	**37**	**ug/kg**	**60 a**		**SW846 8260B**
	ND	**61**	**49**	**ug/kg**	**80**	**28**	**SW846 8260B**
sec-Butylbenzene	**ND**	**61**	**40**	**ug/kg**	**66**		**SW846 8260B**
	ND	**61**	**51**	**ug/kg**	**84**	**24**	**SW846 8260B**
tert-Butylbenzene	**ND**	**61**	**47**	**ug/kg**	**77**		**SW846 8260B**
	ND	**61**	**55**	**ug/kg**	**89**	**14**	**SW846 8260B**
1,2,4-Trimethylbenzene	**ND**	**61**	**41**	**ug/kg**	**68**		**SW846 8260B**
	ND	**61**	**52**	**ug/kg**	**85**	**22**	**SW846 8260B**
1,3,5-Trimethylbenzene	**ND**	**61**	**45**	**ug/kg**	**73**		**SW846 8260B**
	ND	**61**	**53**	**ug/kg**	**86**	**17**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(61 - 130)
	86	(61 - 130)
Toluene-d8	88	(85 - 115)
	92	(85 - 115)
4-Bromofluorobenzene	80 *	(85 - 120)
	86	(85 - 120)
Dibromofluoromethane	92	(59 - 138)
	92	(59 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82757.D
Report Date: 08-Mar-2010 17:43

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82757.D
Lab Smp Id: LWCWJ1
Inj Date : 06-MAR-2010 04:13
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : LWCWJ1 ,5G/5ML
Misc Info : M00305B,8260SUX8,1-8260.SUB,402279,3,,MS
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Meth Date : 05-Mar-2010 21:26 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40 Cal File: UX82639.D
Als bottle: 22 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	5.309	5.304	(1.000)	1035109	250.000	
* 2 Chlorobenzene-d5	117	7.845	7.847	(1.000)	719855	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.042	10.037	(1.000)	267791	250.000	
$ 4 Dibromofluoromethane	113	4.785	4.787	(0.901)	199874	231.043	46.208
$ 5 1,2-Dichloroethane-d4	65	5.053	5.055	(0.952)	244273	224.188	44.838
$ 6 Toluene-d8	98	6.580	6.582	(1.239)	777355	221.054	44.211
$ 7 Bromofluorobenzene	95	8.928	8.924	(1.138)	233896	199.151	39.830
8 Dichlorodifluoromethane	85	1.659	1.654	(0.312)	107713	159.925	31.985
9 Chloromethane	50	1.835	1.831	(0.346)	236085	200.390	40.078
10 Vinyl Chloride	62	1.951	1.952	(0.367)	163501	199.062	39.812
11 Bromomethane	94	2.285	2.275	(0.430)	83103	213.591	42.718
12 Chloroethane	64	2.376	2.372	(0.448)	97960	224.246	44.849
13 Trichlorofluoromethane	101	2.601	2.597	(0.490)	181767	219.158	43.832
15 Acrolein	56	2.973	2.968	(0.560)	54001	250.144	50.029(R)
16 Acetone	43	3.100	3.096	(0.584)	241074	456.182	91.236
17 1,1-Dichloroethene	96	3.046	3.041	(0.574)	153060	206.373	41.274
18 Freon-113	151	3.039	3.041	(0.573)	136507	225.359	45.072
19 Iodomethane	142	3.179	3.175	(0.599)	316148	200.701	40.140
20 Carbon Disulfide	76	3.234	3.230	(0.609)	418189	201.251	40.250
21 Methylene Chloride	84	3.441	3.437	(0.648)	220834	212.911	42.582

22 Acetonitrile	41	3.338	3.333 (0.629)	111778	603.015	120.60
23 Acrylonitrile	53	3.642	3.637 (0.686)	296854	610.114	122.02

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82757.D
Report Date: 08-Mar-2010 17:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.642	3.643	(0.686)	332523	215.879	43.176
	25 trans-1,2-Dichloroethene	96	3.654	3.649	(0.688)	171172	194.581	38.916
	26 Hexane	86	3.849	3.844	(0.725)	38629	197.629	39.526
	28 1,1-Dichloroethane	63	3.982	3.978	(0.750)	333243	198.382	39.676
	29 tert-Butyl Alcohol	59	3.526	3.522	(0.664)	302417	3856.18	771.24
	30 2-Butanone	43	4.427	4.428	(0.834)	309548	369.759	73.952
M	31 1,2-Dichloroethene (total)	96				357263	377.719	75.544
	32 cis-1,2-dichloroethene	96	4.427	4.422	(0.834)	186091	183.138	36.628
	33 2,2-Dichloropropane	77	4.427	4.422	(0.834)	158281	189.122	37.824
	34 Bromochloromethane	128	4.615	4.611	(0.869)	101682	191.836	38.367
	35 Chloroform	83	4.658	4.659	(0.877)	294224	197.851	39.570
	36 Tetrahydrofuran	42	4.646	4.641	(0.875)	100186	196.641	39.328
	37 1,1,1-Trichloroethane	97	4.810	4.805	(0.906)	237062	188.761	37.752
	38 1,1-Dichloropropene	75	4.931	4.927	(0.929)	187764	184.472	36.894
	39 Carbon Tetrachloride	117	4.938	4.933	(0.930)	210187	191.820	38.364
	40 1,2-Dichloroethane	62	5.114	5.110	(0.963)	258362	181.622	36.324
	41 Benzene	78	5.102	5.097	(0.961)	627933	184.816	36.963(R)
	42 Trichloroethene	130	5.588	5.590	(1.053)	162249	155.656	31.131(R)
	43 1,2-Dichloropropane	63	5.783	5.779	(1.089)	172803	184.433	36.886
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	5.880	5.876	(1.108)	89443	172.857	34.571
	46 Bromodichloromethane	83	5.990	5.992	(1.128)	174597	182.452	36.490
	47 2-Chloroethyl vinyl ether	63	6.215	6.217	(1.171)	26375	92.6710	18.534(R)
	48 cis-1,3-Dichloropropene	75	6.355	6.351	(1.197)	166710	140.263	28.052
	49 4-Methyl-2-pentanone	43	6.464	6.466	(1.218)	521863	377.173	75.435
	50 Toluene	91	6.635	6.636	(0.846)	574532	157.212	31.442(R)
	51 trans-1,3-Dichloropropene	75	6.811	6.813	(0.868)	133385	145.233	29.047
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	6.982	6.977	(0.890)	128632	184.281	36.856
	54 1,3-Dichloropropane	76	7.128	7.129	(0.909)	206826	172.601	34.520
	55 Tetrachloroethene	164	7.103	7.105	(0.905)	108944	163.616	32.723
	56 2-Hexanone	43	7.176	7.172	(0.915)	308798	360.249	72.050
	57 Dibromochloromethane	129	7.334	7.330	(0.935)	121126	164.021	32.804
	58 1,2-Dibromoethane	107	7.450	7.446	(0.950)	110069	158.519	31.704
	59 Chlorobenzene	112	7.876	7.871	(1.004)	339373	143.060	28.612(R)
	60 1,1,1,2-Tetrachloroethane	131	7.937	7.938	(1.012)	156569	194.061	38.812
	61 Ethylbenzene	106	7.955	7.957	(1.014)	184095	150.092	30.018
	62 m + p-Xylene	106	8.058	8.054	(1.027)	444489	292.206	58.441
M	63 Xylenes (total)	106				676313	447.613	89.523
	64 Xylene-o	106	8.429	8.425	(1.074)	231824	155.408	31.082
	65 Styrene	104	8.442	8.443	(1.076)	294776	128.544	25.709
	66 Bromoform	173	8.636	8.638	(1.101)	59332	143.870	28.774
	67 Isopropylbenzene	105	8.764	8.766	(1.117)	540045	145.974	29.195
	68 1,1,2,2-Tetrachloroethane	83	9.056	9.052	(0.902)	137929	239.141	47.828
	69 1,4-Dichloro-2-butene	53	9.111	9.106	(0.907)	70837	293.459	58.692
	70 1,2,3-Trichloropropane	110	9.111	9.106	(0.907)	53868	251.800	50.360
	71 Bromobenzene	156	9.080	9.082	(0.904)	117530	158.907	31.781
	72 n-Propylbenzene	120	9.159	9.155	(0.912)	128455	169.298	33.860
	73 2-Chlorotoluene	126	9.257	9.252	(0.922)	120060	172.454	34.491
	74 1,3,5-Trimethylbenzene	105	9.318	9.319	(0.928)	398533	182.603	36.520
	75 4-Chlorotoluene	126	9.354	9.356	(0.932)	104529	146.258	29.252
	76 tert-Butylbenzene	119	9.640	9.636	(0.960)	386428	193.362	38.672

77	1,2,4-Trimethylbenzene	105	9.689	9.684 (0.965)	373375	169.030	33.806
78	sec-Butylbenzene	105	9.853	9.849 (0.981)	447868	164.764	32.953

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82757.D
Report Date: 08-Mar-2010 17:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
79	4-Isopropyltoluene	119	9.987	9.988	(0.995)	346133	150.604	30.121
80	1,3-Dichlorobenzene	146	9.981	9.976	(0.994)	168397	120.930	24.186(R)
81	1,4-Dichlorobenzene	146	10.066	10.061	(1.002)	162012	111.488	22.298(R)
82	n-Butylbenzene	91	10.394	10.390	(1.035)	207177	112.344	22.469(R)
83	1,2-Dichlorobenzene	146	10.437	10.433	(1.039)	164986	122.271	24.454(R)
84	1,2-Dibromo-3-chloropropane	157	11.210	11.211	(1.116)	17973	162.571	32.514
85	1,2,4-Trichlorobenzene	180	12.025	12.020	(1.197)	43618	57.2763	11.455(R)
86	Hexachlorobutadiene	225	12.183	12.185	(1.213)	34992	95.5313	19.106(R)
87	Naphthalene	128	12.286	12.288	(1.224)	124277	63.4461	12.689(R)
88	1,2,3-Trichlorobenzene	180	12.548	12.550	(1.250)	42027	56.7437	11.349(R)
98	Cyclohexane	56	4.852	4.848	(0.914)	341910	143.623	28.725
143	Methyl Acetate	43	3.356	3.351	(0.632)	240699	195.856	39.171
144	Methylcyclohexane	83	5.747	5.742	(1.083)	266723	160.921	32.184
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82757.D
Report Date: 08-Mar-2010 17:43

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

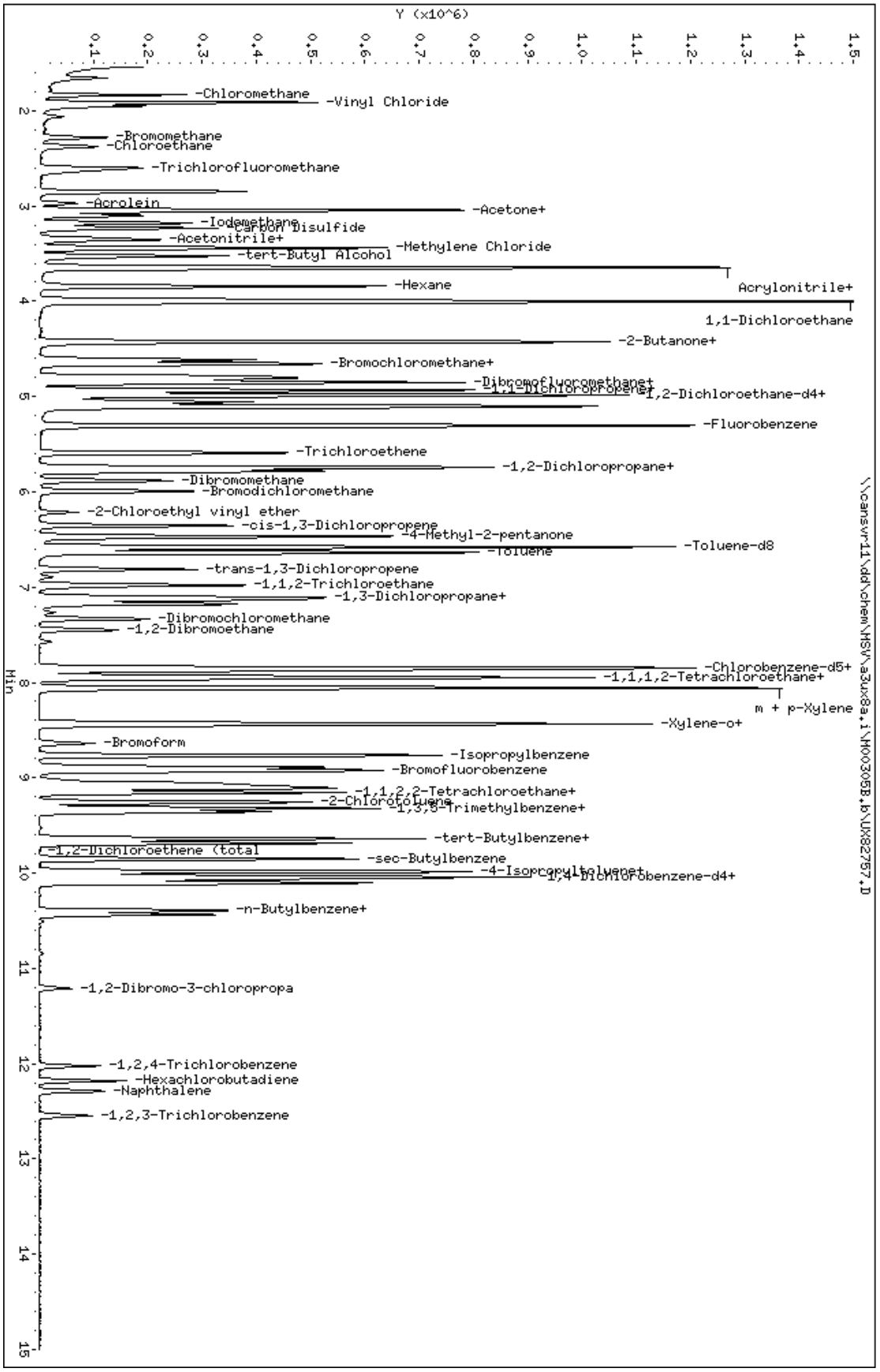
Instrument ID: a3ux8a.i
Lab File ID: UX82757.D
Lab Smp Id: LWCWJ1
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279,3,,MS

Calibration Date: 05-MAR-2010
Calibration Time: 20:44
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1124023	562012	2248046	1035109	-7.91
2 Chlorobenzene-d5	872734	436367	1745468	719855	-17.52
3 1,4-Dichlorobenze	452625	226313	905250	267791	-40.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.08
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	-0.02
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
Carbon Disulfide
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
Acrylonitrile+
1,1-Dichloroethane
-2-Butanone+
-Bromochloromethane+
-Dibromofluoromethane+
-1,1-Dichloropropene+
1,2-Dichloroethane-d4+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene
-Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-1,2-Dichloroethene (total
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
Min
2
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\\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82757.D
Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82757.D
Date : 06-MAR-2010 04:13
Client ID:
Sample Info: LWCWJICC,5G/5ML
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82758.D
Report Date: 08-Mar-2010 17:43

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82758.D
Lab Smp Id: LWCWJ1
Inj Date : 06-MAR-2010 04:35
Operator : 402279 Inst ID: a3ux8a.i
Smp Info : LWCWJ1 ,5G/5ML
Misc Info : M00305B,8260SUX8,1-8260.SUB,402279,3,,MSD
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Meth Date : 05-Mar-2010 21:26 a3ux8a.i Quant Type: ISTD
Cal Date : 26-FEB-2010 20:40 Cal File: UX82639.D
Als bottle: 23 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPGCV909

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	5.308	5.304	(1.000)	1032260	250.000	
* 2 Chlorobenzene-d5	117	7.845	7.847	(1.000)	776088	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.041	10.037	(1.000)	344785	250.000	
$ 4 Dibromofluoromethane	113	4.785	4.787	(0.901)	198159	229.693	45.938
$ 5 1,2-Dichloroethane-d4	65	5.052	5.055	(0.952)	234700	215.883	43.177
$ 6 Toluene-d8	98	6.579	6.582	(1.240)	808015	230.406	46.081
$ 7 Bromofluorobenzene	95	8.927	8.924	(1.138)	271252	214.419	42.884
8 Dichlorodifluoromethane	85	1.658	1.654	(0.312)	110320	164.248	32.850
9 Chloromethane	50	1.834	1.831	(0.346)	241446	205.506	41.101
10 Vinyl Chloride	62	1.956	1.952	(0.369)	173132	211.370	42.274
11 Bromomethane	94	2.278	2.275	(0.429)	87996	226.791	45.358
12 Chloroethane	64	2.382	2.372	(0.449)	102054	234.262	46.852
13 Trichlorofluoromethane	101	2.601	2.597	(0.490)	191164	231.124	46.225
15 Acrolein	56	2.972	2.968	(0.560)	72521	336.860	67.372(R)
16 Acetone	43	3.099	3.096	(0.584)	255965	489.318	97.864
17 1,1-Dichloroethene	96	3.045	3.041	(0.574)	167284	226.173	45.235
18 Freon-113	151	3.045	3.041	(0.574)	144270	238.833	47.766
19 Iodomethane	142	3.179	3.175	(0.599)	348357	221.759	44.352
20 Carbon Disulfide	76	3.233	3.230	(0.609)	465397	224.588	44.918
21 Methylene Chloride	84	3.440	3.437	(0.648)	234949	227.145	45.429

22 Acetonitrile	41	3.337	3.333 (0.629)	122354	661.891	132.38
23 Acrylonitrile	53	3.641	3.637 (0.686)	330101	680.318	136.06

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82758.D
Report Date: 08-Mar-2010 17:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.641	3.643	(0.686)	367232	239.070	47.814
25	trans-1,2-Dichloroethene	96	3.653	3.649	(0.688)	191051	217.778	43.556
26	Hexane	86	3.848	3.844	(0.725)	42856	219.859	43.972
28	1,1-Dichloroethane	63	3.982	3.978	(0.750)	369246	220.422	44.084
29	tert-Butyl Alcohol	59	3.525	3.522	(0.664)	339796	4344.77	868.95
30	2-Butanone	43	4.432	4.428	(0.835)	334418	400.569	80.114
M 31	1,2-Dichloroethene (total)	96				399987	423.966	84.793
32	cis-1,2-dichloroethene	96	4.426	4.422	(0.834)	208936	206.188	41.238
33	2,2-Dichloropropane	77	4.426	4.422	(0.834)	172808	207.049	41.410
34	Bromochloromethane	128	4.614	4.611	(0.869)	114707	217.007	43.401
35	Chloroform	83	4.657	4.659	(0.877)	307930	207.639	41.528
36	Tetrahydrofuran	42	4.645	4.641	(0.875)	108027	212.617	42.523
37	1,1,1-Trichloroethane	97	4.809	4.805	(0.906)	265075	211.648	42.330
38	1,1-Dichloropropene	75	4.931	4.927	(0.929)	210353	207.236	41.447
39	Carbon Tetrachloride	117	4.937	4.933	(0.930)	240840	220.401	44.080
40	1,2-Dichloroethane	62	5.113	5.110	(0.963)	292066	205.882	41.176
41	Benzene	78	5.101	5.097	(0.961)	695130	205.158	41.032
42	Trichloroethene	130	5.594	5.590	(1.054)	194472	187.084	37.417
43	1,2-Dichloropropane	63	5.782	5.779	(1.089)	198490	212.433	42.487
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	5.880	5.876	(1.108)	108094	209.478	41.896
46	Bromodichloromethane	83	5.995	5.992	(1.129)	206815	216.716	43.343
47	2-Chloroethyl vinyl ether	63	6.214	6.217	(1.171)	35455	124.918	24.984(R)
48	cis-1,3-Dichloropropene	75	6.354	6.351	(1.197)	213231	179.899	35.980
49	4-Methyl-2-pentanone	43	6.470	6.466	(1.219)	604264	437.933	87.587
50	Toluene	91	6.634	6.636	(0.846)	716657	181.893	36.378
51	trans-1,3-Dichloropropene	75	6.810	6.813	(0.868)	179552	181.336	36.267
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	6.981	6.977	(0.890)	155161	206.181	41.236
54	1,3-Dichloropropane	76	7.127	7.129	(0.908)	256346	198.426	39.685
55	Tetrachloroethene	164	7.102	7.105	(0.905)	140162	195.248	39.050
56	2-Hexanone	43	7.175	7.172	(0.915)	382290	413.672	82.734
57	Dibromochloromethane	129	7.334	7.330	(0.935)	155004	194.688	38.938
58	1,2-Dibromoethane	107	7.449	7.446	(0.950)	146279	195.404	39.081
59	Chlorobenzene	112	7.869	7.871	(1.003)	466055	182.227	36.445(R)
60	1,1,1,2-Tetrachloroethane	131	7.936	7.938	(1.012)	191268	219.892	43.978
61	Ethylbenzene	106	7.954	7.957	(1.014)	250171	189.185	37.837
62	m + p-Xylene	106	8.058	8.054	(1.027)	619978	378.040	75.608
M 63	Xylenes (total)	106				935235	574.066	114.81
64	Xylene-o	106	8.429	8.425	(1.074)	315257	196.026	39.205
65	Styrene	104	8.441	8.443	(1.076)	439999	177.970	35.594
66	Bromoform	173	8.642	8.638	(1.102)	77853	175.101	35.020
67	Isopropylbenzene	105	8.763	8.766	(1.117)	774742	194.239	38.848
68	1,1,2,2-Tetrachloroethane	83	9.055	9.052	(0.902)	172634	232.472	46.494
69	1,4-Dichloro-2-butene	53	9.110	9.106	(0.907)	109207	351.387	70.277
70	1,2,3-Trichloropropane	110	9.104	9.106	(0.907)	66655	241.994	48.399
71	Bromobenzene	156	9.080	9.082	(0.904)	175660	184.466	36.893
72	n-Propylbenzene	120	9.159	9.155	(0.912)	204610	209.447	41.889
73	2-Chlorotoluene	126	9.256	9.252	(0.922)	181052	201.988	40.398
74	1,3,5-Trimethylbenzene	105	9.317	9.319	(0.928)	605904	215.623	43.124
75	4-Chlorotoluene	126	9.359	9.356	(0.932)	168699	183.335	36.667
76	tert-Butylbenzene	119	9.639	9.636	(0.960)	574710	223.356	44.671

77	1,2,4-Trimethylbenzene	105	9.688	9.684 (0.965)	601093	211.352	42.270
78	sec-Butylbenzene	105	9.852	9.849 (0.981)	733390	209.554	41.911

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82758.D
Report Date: 08-Mar-2010 17:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
79	4-Isopropyltoluene	119	9.986	9.988	(0.995)	592522	200.238	40.048
80	1,3-Dichlorobenzene	146	9.980	9.976	(0.994)	288970	161.175	32.235
81	1,4-Dichlorobenzene	146	10.065	10.061	(1.002)	279807	149.551	29.910
82	n-Butylbenzene	91	10.387	10.390	(1.035)	400069	168.496	33.699
83	1,2-Dichlorobenzene	146	10.436	10.433	(1.039)	277872	159.945	31.989
84	1,2-Dibromo-3-chloropropane	157	11.209	11.211	(1.116)	24652	173.190	34.638
85	1,2,4-Trichlorobenzene	180	12.024	12.020	(1.198)	94768	96.6537	19.331(R)
86	Hexachlorobutadiene	225	12.182	12.185	(1.213)	70159	148.767	29.753
87	Naphthalene	128	12.292	12.288	(1.224)	283569	112.440	22.488(R)
88	1,2,3-Trichlorobenzene	180	12.547	12.550	(1.250)	94002	98.5767	19.715(R)
98	Cyclohexane	56	4.852	4.848	(0.914)	387636	163.280	32.656
143	Methyl Acetate	43	3.355	3.351	(0.632)	263759	215.212	43.042
144	Methylcyclohexane	83	5.746	5.742	(1.083)	316210	191.304	38.261
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82758.D
Report Date: 08-Mar-2010 17:43

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

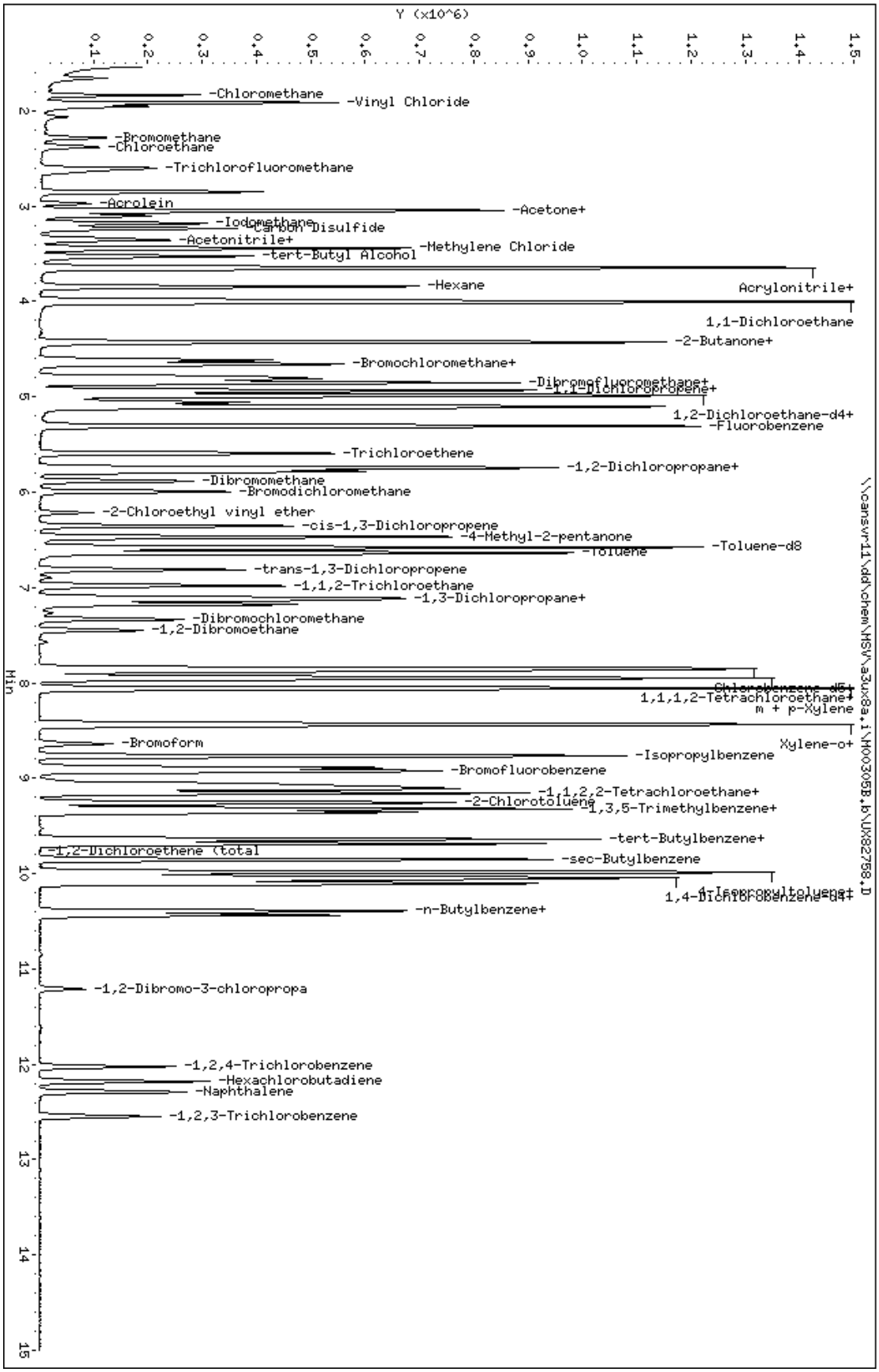
Instrument ID: a3ux8a.i
Lab File ID: UX82758.D
Lab Smp Id: LWCWJ1
Analysis Type: VOA
Quant Type: ISTD
Operator: 402279
Method File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\8260SUX8.m
Misc Info: M00305B,8260SUX8,1-8260.SUB,402279,3,,MSD

Calibration Date: 05-MAR-2010
Calibration Time: 20:44
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1124023	562012	2248046	1032260	-8.16
2 Chlorobenzene-d5	872734	436367	1745468	776088	-11.07
3 1,4-Dichlorobenze	452625	226313	905250	344785	-23.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.30	4.80	5.80	5.31	0.07
2 Chlorobenzene-d5	7.85	7.35	8.35	7.85	-0.03
3 1,4-Dichlorobenze	10.04	9.54	10.54	10.04	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux8a.i\M00305B.b\UX82758.D
Date : 06-MAR-2010 04:35
Client ID:
Sample Info: LWCWJ1CD,5G/5ML
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux8a.i
Operator: 402279
Column diameter: 0.18

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MISCELLANEOUS DATA

UX8
Batch # _____

TestAmerica-North Canton
GC/MS VOA Run Log

Date: 2-26-10

Method: (8260B) 624

Column
Type: DB624
Length 20 M
I.D. 0.18 mm
Flow Rate 0.4ml/min

BFB
100 C for 0.1 min
to 172 C @ 20 C/min
Hold -- min
IS# V8315 SS# V8500

Analysis
40 C for 2 min
to 200 C @ 15 C/min
to -- C @ -- C/min
Hold 3 min

Purge & Trap
Trap: #10
Purge: 11
Desorb: 1 min @190 C
Bake: 6 min @ 220 C
Heated purge: (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number/ Sample prep	Comments	Sample status
—	BFB		BFB8199	50ng	V8504	Dir. Inj. (17:28)	OK
1	Blank		VX82631	5mL			—
2	1000-STD		VX82632	1000ng	V8504 V8499 V8507 V8501 SS	* Dibromofluoromethane	OK
3	500-STD		VX82633	500ng			OK
4	250-STD		VX82634	250ng		M00226	OK
5	100-STD		VX82635	100ng			OK
6	50-STD		VX82636	50ng			OK
7	25-STD		VX82637	25ng			OK
8	10-STD		VX82638	10ng			OK
9	5-STD		VX82639	5ng	↓		OK
10	ICV		VX82640	250ng	V8503	Not used ?	(R)
11	App IX STD		VX82641	↓	V8498 V8493	M91201-A9	OK
12	QCMRL		VX82642	25ng	V8504 V8499 V8507	not used ?	—
13	check/ICV		VX82643	50g/5mL	25ng/-AS V8503		OK
14	check DUP		VX82644	↓	↓		OK
15	MBLK		VX82645	↓			OK

TJL 2/26/10

Analyst: TJL
Level 2 review: TS Date: 3/4/10
PDF Made: ✓

UX8
Batch # 0067386 (DoD)
MS# 0067213

TestAmerica-North Canton
GC/MS VOA Run Log

3/11

Date: 3-5-10

Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB624	100 C for 0.1 min	40 C for 2 min	Trap: #10
Length 20 M	to 172 C @ 20 C/min	to 200 C @ 15 C/min	Purge: 11
I.D. 0.18 mm	Hold -- min	to -- C @ -- C/min	Desorb: 1 min @190 C
Flow Rate 0.4ml/min	IS # V8315 SS # V8500	Hold 3 min	Bake: 6 min @ 220 C
		LLS	Heated purge: (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status
—	BFB		BFB8205	50ng	V8004	Dir. Inj. 20:51	OK
1	Blank		VX82736	5mL			—
2	8260 STD		VX82737	250ng	V8514 V8508 V8526	M00226	OK
3	App IX STD		VX82738	↓	V8529 V8493	M91201-A9	OK
4	QCMRL		VX82739	25ng	V8514 V8508 V8526	✓	OK
5	Check/LWEQ8IAC		VX82740	5g/5mL	25ng FAS V8520	✓	OK
6	Check DUP/LWEQ8IAD		VX82741	↓	↓	✓	OK
7	MBLK/LWEQ8IAH		VX82742	↓		✓	OK
8	LV9DAIAC	8260 WA	VX82743	5g/5mL		SS↓↓ (x2) 3/24	
9	LV9DAIAC	↓ DUP	VX82744	↓		SS↓ (x2) ↓	OK
10	LWADPIAC	8260 WA	VX82745	5g/5mL		SS↓ (x2) (H) 3/11	OK
11	LWADPIAC	↓ DUP	VX82746	↓		SS↓ (x2) ↓	
12	LWAGPIAC	8260 WA	VX82747	5g/5mL		3/25	OK
13	LWAGPIAC	DUP	VX82748			SS↓	
14	LWAGRIAN		VX82749			SS↓↓ (x2)	
15	LWAGRIAN	DUP	VX82750			SS↓ (x2)	OK
16	LWAHGIAC		VX82751			SS↓↓ (x2)	
17	LWAHGIAC	DUP	VX82752			SS↓ (x2)	OK
18	LWAHPIAC		VX82753			SS↓ (x2)	OK
19	LWAHPIAC	↓ DUP	VX82754	↓		SS↓ (x2) ↓	
20	LWCWJIAC	8260 WA	VX82755	5g/5mL		SS↓ (x2) 3/26	OK
21	LWCWJIAC	DUP	VX82756			ISS↓ SS↓↓ (x2)	
22	LWCWJICC	MS	VX82757		25ng FAS V8520	✓	OK
23	LWCWJICD	↓ MSD	VX82758	↓	↓	✓	OK
24	QCMRL		VX82759	25ng	V8514 V8508 V8526	✓	OK
25	QCMDL		VX82760	10ng	↓		OK

030547 ↓ 040505 ↓ 040514 ↓ 050520

TJL 3/8/10

Analyst: TJL

Level IV Review: TS Date: 3/9/10

PDF Made: ✓

1124023

Lot/SDG Number: **A0C050520**

Sample Control Chain of Custody - TAL North Canton
GC/MS Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0C050520	2	LWCWJ1AC	Volatile Organics, GC/MS (8260B)	03/06/10	Todd Lata

TestAmerica
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GCMS SEMIVOLATILE DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Cor

Lab Code: TALCAN SDG No:

Lot #: A0C050520

Extraction: XXA11QLLB

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	INTRA-LAB QC	67	64	87	62	60	43	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(24-112)
SRG02	= 2-Fluorobiphenyl	(34-110)
SRG03	= Terphenyl-d14	(41-119)
SRG04	= Phenol-d5	(28-110)
SRG05	= 2-Fluorophenol	(26-110)
SRG06	= 2,4,6-Tribromophenol	(10-118)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Cor

Lab Code: TALCAN SDG No:

Lot #: A0C050520

Extraction: XXA11QLWA

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	LL6SB-069-5222-SO	59	54	88	64	63	37	00
02	METHOD BLK. LWFDJ1AA	63	59	85	66	68	50	00
03	LCS LWFDJ1AC	66	63	87	64	65	58	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(35-100)
SRG02	= 2-Fluorobiphenyl	(45-105)
SRG03	= Terphenyl-d14	(30-125)
SRG04	= Phenol-d5	(40-100)
SRG05	= 2-Fluorophenol	(35-105)
SRG06	= 2,4,6-Tribromophenol	(35-125)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C090000 WO #: LWFDJ1AC
BATCH: 0068165

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Acenaphthene	670	450	67	45 - 110	
4-Chloro-3-methylphenol	670	510	76	45 - 115	
2-Chlorophenol	670	410	62	45 - 105	
1,4-Dichlorobenzene	670	440	65	35 - 105	
2,4-Dinitrotoluene	670	540	81	50 - 115	
4-Nitrophenol	670	470	71	15 - 140	
N-Nitrosodi-n-propylamine	670	450	68	40 - 115	
Pentachlorophenol	670	300	44	25 - 120	
Phenol	670	440	65	40 - 100	
Pyrene	670	510	77	45 - 125	
1,2,4-Trichlorobenzene	670	430	64	45 - 110	
bis(2-Ethylhexyl) phthala	670	570	85	45 - 125	
Acenaphthylene	670	460	69	45 - 105	
Anthracene	670	500	74	55 - 105	
Benzo(a)anthracene	670	500	75	50 - 110	
Benzo(b)fluoranthene	670	540	81	45 - 115	
Benzo(k)fluoranthene	670	530	79	45 - 125	
Benzo(ghi)perylene	670	530	80	40 - 125	
Benzo(a)pyrene	670	460	69	50 - 110	
bis(2-Chloroethoxy)methan	670	440	66	45 - 110	
bis(2-Chloroethyl) ether	670	430	65	40 - 105	
4-Bromophenyl phenyl ethe	670	490	73	45 - 115	
Butyl benzyl phthalate	670	550	83	50 - 125	
Carbazole	670	510	76	45 - 115	
4-Chloroaniline	670	340	50	10 - 95	
2-Chloronaphthalene	670	420	63	45 - 105	
4-Chlorophenyl phenyl eth	670	470	71	45 - 110	
Chrysene	670	480	72	55 - 110	
Dibenzo(a,h)anthracene	670	540	81	40 - 125	
Dibenzofuran	670	460	69	50 - 105	
Di-n-butyl phthalate	670	560	83	55 - 110	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C090000 WO #: LWFDJ1AC
BATCH: 0068165

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,2-Dichlorobenzene	670	440	65	45- 95	
1,3-Dichlorobenzene	670	420	63	40- 100	
3,3'-Dichlorobenzidine	670	340	51	10- 130	
2,4-Dichlorophenol	670	460	69	45- 110	
Diethyl phthalate	670	500	75	50- 115	
2,4-Dimethylphenol	670	390	59	30- 105	
Dimethyl phthalate	670	490	73	50- 110	
4,6-Dinitro-2-methylpheno	670	410	61	30- 135	
2,4-Dinitrophenol	670	230	34	15- 130	
2,6-Dinitrotoluene	670	520	78	50- 110	
Di-n-octyl phthalate	670	560	84	40- 130	
Fluoranthene	670	530	79	55- 115	
Fluorene	670	480	72	50- 110	
Hexachlorobenzene	670	470	71	45- 120	
Hexachlorobutadiene	670	430	64	40- 115	
Hexachloroethane	670	400	61	35- 110	
Indeno(1,2,3-cd)pyrene	670	550	83	40- 120	
Isophorone	670	440	66	45- 110	
2-Methylnaphthalene	670	520	78	45- 105	
2-Methylphenol	670	400	60	40- 105	
Naphthalene	670	450	67	40- 105	
2-Nitroaniline	670	510	77	45- 120	
3-Nitroaniline	670	440	65	25- 110	
4-Nitroaniline	670	540	81	35- 115	
Nitrobenzene	670	460	69	40- 115	
2-Nitrophenol	670	460	69	40- 110	
N-Nitrosodiphenylamine	670	520	78	50- 115	
Phenanthrene	670	480	72	50- 110	
2,4,5-Trichlorophenol	670	460	70	50- 110	
2,4,6-Trichlorophenol	670	420	62	45- 110	
Benzyl alcohol	670	340	51	20- 125	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C090000 WO #: LWFDJ1AC
BATCH: 0068165

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
bis(2-Chloroisopropyl) et	670	450	67	20 - 115	
N-Nitrosodimethylamine	670	450	68	20 - 115	
3-Methylphenol & 4-Methyl	1300	870	65	40 - 105	
1,2-Diphenylhydrazine (as	670	490	73	1 - 175	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 66 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LWFDJ1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: LWFDJ1AA.

Lot Number: A0C050520

Date Analyzed: 03/12/10

Time Analyzed: 09:58

Matrix: SOLID

Date Extracted:03/09/10

GC Column: DB-5MS ID: .18

Extraction Method: 3540C

Instrument ID: HP10

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LL6SB-069-5222-SO	LWCWJ1AD	LWCWJ1AD.	03/12/10	11:16
02	CHECK SAMPLE	LWFDJ1AC C	LWFDJ1AC.	03/12/10	10:17
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0C050520

Lab File ID: 1DF0308 DFTPP Injection Date: 03/08/10

Instrument ID: A4HP10 DFTPP Injection Time: 1451

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	39.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	42.9
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	50.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	27.2
365	Greater than 0.75% of mass 198	2.98
441	Present, but less than mass 443	12.1
442	40.0 - 110.0% of mass 198	78.4
443	15.0 - 24.0% of mass 442	15.9 (20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005	L5	1SMM0308	03/08/10	1511
02	SSTD004	L4	1SM0308	03/08/10	1530
03	SSTD003	L3	1SML0308	03/08/10	1550
04	SSTD002	L2	1SL0308	03/08/10	1610
05	SSTD001	L1	1SLL0308	03/08/10	1630
06	SSTD009	L9	1SHHH0308	03/08/10	1649
07	SSTD008	L8	1SHH0308	03/08/10	1709
08	SSTD007	L7	1SH0308	03/08/10	1729
09	SSTD006	L6	1SMH0308	03/08/10	1749
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0C050520

Lab File ID: 1DF0312 DFTPP Injection Date: 03/12/10

Instrument ID: A4HP10 DFTPP Injection Time: 0900

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	45.4
68	Less than 2.0% of mass 69	0.2 (0.5)1
69	Mass 69 relative abundance	44.9
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	25.0 - 75.0% of mass 198	50.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	24.2
365	Greater than 0.75% of mass 198	2.69
441	Present, but less than mass 443	9.3
442	40.0 - 110.0% of mass 198	63.5
443	15.0 - 24.0% of mass 442	12.7 (20.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD006	L6	1SMH0312	03/12/10	0919
02	LWFDJBLK	LWFDJ1AA	LWFDJ1AA	03/12/10	0958
03	LWFDJCHK	LWFDJ1AC	LWFDJ1AC	03/12/10	1017
04	LL6SB-069-52	LWCWJ1AD	LWCWJ1AD	03/12/10	1116
05					
06					
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20					
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22					

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0C050520

Lab File ID (Standard): 1SMH0312 Date Analyzed: 03/12/10

Instrument ID: A4HP10 Time Analyzed: 0919

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	337451	3.40	1316432	4.29	724165	5.56
	UPPER LIMIT	674902	3.90	2632864	4.79	1448330	6.06
	LOWER LIMIT	168726	2.90	658216	3.79	362083	5.06
	EPA SAMPLE NO.						
01	LWFDJBLK	354318	3.40	1346100	4.28	768520	5.55
02	LWFDJCHK	266990	3.40	990720	4.28	566694	5.55
03	LL6SB-069-52	357143	3.40	1382274	4.28	805216	5.55
04							
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21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0C050520

Lab File ID (Standard): 1SMH0312 Date Analyzed: 03/12/10

Instrument ID: A4HP10 Time Analyzed: 0919

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1142407	6.64	1292171	8.59	1026541	9.95
	UPPER LIMIT	2284814	7.14	2584342	9.09	2053082	10.45
	LOWER LIMIT	571204	6.14	646086	8.09	513271	9.45
	EPA SAMPLE NO.						
01	LWFDJBLK	1211968	6.64	1310604	8.59	1062082	9.94
02	LWFDJCHK	893852	6.64	972996	8.58	755220	9.94
03	LL6SB-069-52	1323533	6.64	1347578	8.59	1143948	9.94
04							
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18							
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20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

GC/MS Semivolatiles

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ1AD **Matrix.....:** SO
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/12/10
Prep Batch #...: 0068165
Dilution Factor: 1 **Initial Wgt/Vol:** 30.13 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 18 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	61	ug/kg	4.0
Acenaphthylene	ND	61	ug/kg	4.0
Anthracene	ND	61	ug/kg	4.0
Benzo(a)anthracene	ND	61	ug/kg	4.0
Benzo(b)fluoranthene	ND	61	ug/kg	4.0
Benzo(k)fluoranthene	ND	61	ug/kg	4.0
Benzoic acid	ND	980	ug/kg	410
Benzo(ghi)perylene	ND	61	ug/kg	4.0
Benzo(a)pyrene	ND	61	ug/kg	4.0
Benzyl alcohol	ND	400	ug/kg	26
bis(2-Chloroethoxy) methane	ND	400	ug/kg	27
bis(2-Chloroethyl)-ether	ND	400	ug/kg	2.4
bis(2-Chloroisopropyl) ether	ND	400	ug/kg	12
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg	23
4-Bromophenyl phenyl ether	ND	400	ug/kg	16
Butyl benzyl phthalate	ND	400	ug/kg	12
Carbazole	ND	61	ug/kg	33
4-Chloroaniline	ND	400	ug/kg	21
4-Chloro-3-methylphenol	ND	400	ug/kg	26
2-Chloronaphthalene	ND	400	ug/kg	4.0
2-Chlorophenol	ND	400	ug/kg	33
4-Chlorophenyl phenyl ether	ND	400	ug/kg	16
Dibenzo(a,h)anthracene	ND	61	ug/kg	4.0
Dibenzofuran	ND	400	ug/kg	24
Di-n-butyl phthalate	ND	400	ug/kg	18
1,2-Dichlorobenzene	ND	400	ug/kg	12
1,3-Dichlorobenzene	ND	400	ug/kg	13
1,4-Dichlorobenzene	ND	400	ug/kg	24
3,3'-Dichlorobenzidine	ND	400	ug/kg	22
2,4-Dichlorophenol	ND	400	ug/kg	24
Diethyl phthalate	ND	400	ug/kg	20
2,4-Dimethylphenol	ND	400	ug/kg	24

(Continued on next page)

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

GC/MS Semivolatiles

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ1AD **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dimethyl phthalate	ND	400	ug/kg	21
4,6-Dinitro-2-methylphenol	ND	980	ug/kg	98
2,4-Dinitrophenol	ND	980	ug/kg	98
2,4-Dinitrotoluene	ND	400	ug/kg	33
2,6-Dinitrotoluene	ND	400	ug/kg	26
Di-n-octyl phthalate	ND	400	ug/kg	33
Fluoranthene	ND	61	ug/kg	4.0
Fluorene	ND	61	ug/kg	4.0
Hexachlorobenzene	ND	400	ug/kg	2.6
Hexachlorobutadiene	ND	400	ug/kg	33
Hexachlorocyclopenta-diene	ND	400	ug/kg	33
Hexachloroethane	ND	400	ug/kg	11
Indeno(1,2,3-cd)pyrene	ND	61	ug/kg	4.0
Isophorone	ND	400	ug/kg	16
2-Methylnaphthalene	ND	400	ug/kg	4.0
2-Methylphenol	ND	400	ug/kg	98
3-Methylphenol & 4-Methylphenol	ND	400	ug/kg	24
Naphthalene	ND	61	ug/kg	4.0
2-Nitroaniline	ND	980	ug/kg	11
3-Nitroaniline	ND	980	ug/kg	20
4-Nitroaniline	ND	980	ug/kg	32
Nitrobenzene	ND	400	ug/kg	2.7
2-Nitrophenol	ND	400	ug/kg	33
4-Nitrophenol	ND	980	ug/kg	98
N-Nitrosodiphenylamine	ND	400	ug/kg	26
N-Nitrosodi-n-propyl-amine	ND	400	ug/kg	33
Pentachlorophenol	ND	400	ug/kg	98
Phenanthrene	ND	61	ug/kg	4.0
Phenol	ND	400	ug/kg	33
Pyrene	ND	61	ug/kg	4.0
1,2,4-Trichloro-benzene	ND	400	ug/kg	33
2,4,5-Trichloro-phenol	ND	400	ug/kg	31
2,4,6-Trichloro-phenol	ND	400	ug/kg	98
Chrysene	ND	61	ug/kg	1.3

(Continued on next page)

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

GC/MS Semivolatiles

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ1AD **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	54	(45 - 105)
2-Fluorophenol	63	(35 - 105)
Phenol-d5	64	(40 - 100)
2,4,6-Tribromophenol	37	(35 - 125)
Nitrobenzene-d5	59	(35 - 100)
Terphenyl-d14	88	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\LWCWJ1AD.D
Lab Smp Id: lwcwj1ad Client Smp ID: LL6SB-069-5222-SO
Inj Date : 12-MAR-2010 11:16
Operator : 001710 Inst ID: a4hp10.i
Smp Info : lwcwj1ad,00312a.b,8270C-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Meth Date : 12-Mar-2010 14:28 gruberj Quant Type: ISTD
Cal Date : 08-MAR-2010 16:10 Cal File: 1SL0308.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.130	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.398	3.397	(1.000)	357143	2.00000		(Q)
* 2 Naphthalene-d8	136	4.284	4.290	(1.000)	1382274	2.00000		
* 3 Acenaphthene-d10	164	5.550	5.556	(1.000)	805216	2.00000		
* 4 Phenanthrene-d10	188	6.635	6.635	(1.000)	1323533	2.00000		
* 5 Chrysene-d12	240	8.585	8.590	(1.000)	1347578	2.00000		
* 6 Perylene-d12	264	9.942	9.947	(1.000)	1143948	2.00000		
198 1,4-Dioxane	88	Compound Not Detected.						
9 Pyridine	79	Compound Not Detected.						
10 N-Nitrosodimethylamine	74	Compound Not Detected.						
12 3-Chloropropionitrile	54	Compound Not Detected.						
209 Benzaldehyde	77	Compound Not Detected.						
21 Aniline	93	Compound Not Detected.						
22 Phenol	94	Compound Not Detected.						
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	Compound Not Detected.						
26 1,3-Dichlorobenzene	146	Compound Not Detected.						
27 1,4-Dichlorobenzene	146	Compound Not Detected.						
28 1,2-Dichlorobenzene	146	Compound Not Detected.						

29	Benzyl Alcohol	108	Compound Not Detected.
30	2-Methylphenol	108	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	4.023	4.092	(0.939)	19660	0.79270	105.24(H)
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	Compound Not Detected.					
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	Compound Not Detected.					
63	1-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					
212	Atrazine	200	Compound Not Detected.					

111	Pentachlorophenol	266	Compound Not Detected.
115	Phenanthrene	178	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
116	Anthracene	178	Compound Not Detected.					
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
123	Fluoranthene	202	Compound Not Detected.					
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	Compound Not Detected.					
131	Butylbenzylphthalate	149	Compound Not Detected.					
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	Compound Not Detected.					
137	Chrysene	228	Compound Not Detected.					
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.526	8.531	(0.993)	49415	0.12667	16.816
140	Di-n-octylphthalate	149	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	Compound Not Detected.					
142	Benzo(k)fluoranthene	252	Compound Not Detected.					
146	Benzo(a)pyrene	252	Compound Not Detected.					
149	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150	Dibenz(a,h)anthracene	278	Compound Not Detected.					
151	Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.771	3.771	(0.880)	684476	2.94014	390.33
$ 155	2-Fluorobiphenyl	172	5.043	5.048	(0.909)	1276952	2.68922	357.02
$ 156	Terphenyl-d14	244	7.778	7.778	(0.906)	1722324	4.39918	584.03
$ 157	Phenol-d5	99	3.109	3.104	(0.915)	1267355	4.80601	638.04
$ 158	2-Fluorophenol	112	2.537	2.527	(0.747)	942857	4.71286	625.67
$ 159	2,4,6-Tribromophenol	330	6.122	6.122	(1.103)	122838	2.76787	367.46
$ 186	2-Chlorophenol-d4	132	3.243	3.243	(0.954)	984238	4.93683	655.40
$ 187	1,2-Dichlorobenzene-d4	152	3.504	3.504	(1.031)	333464	2.37229	314.94
M 195	Cresols, total	100	Compound Not Detected.					
101	Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

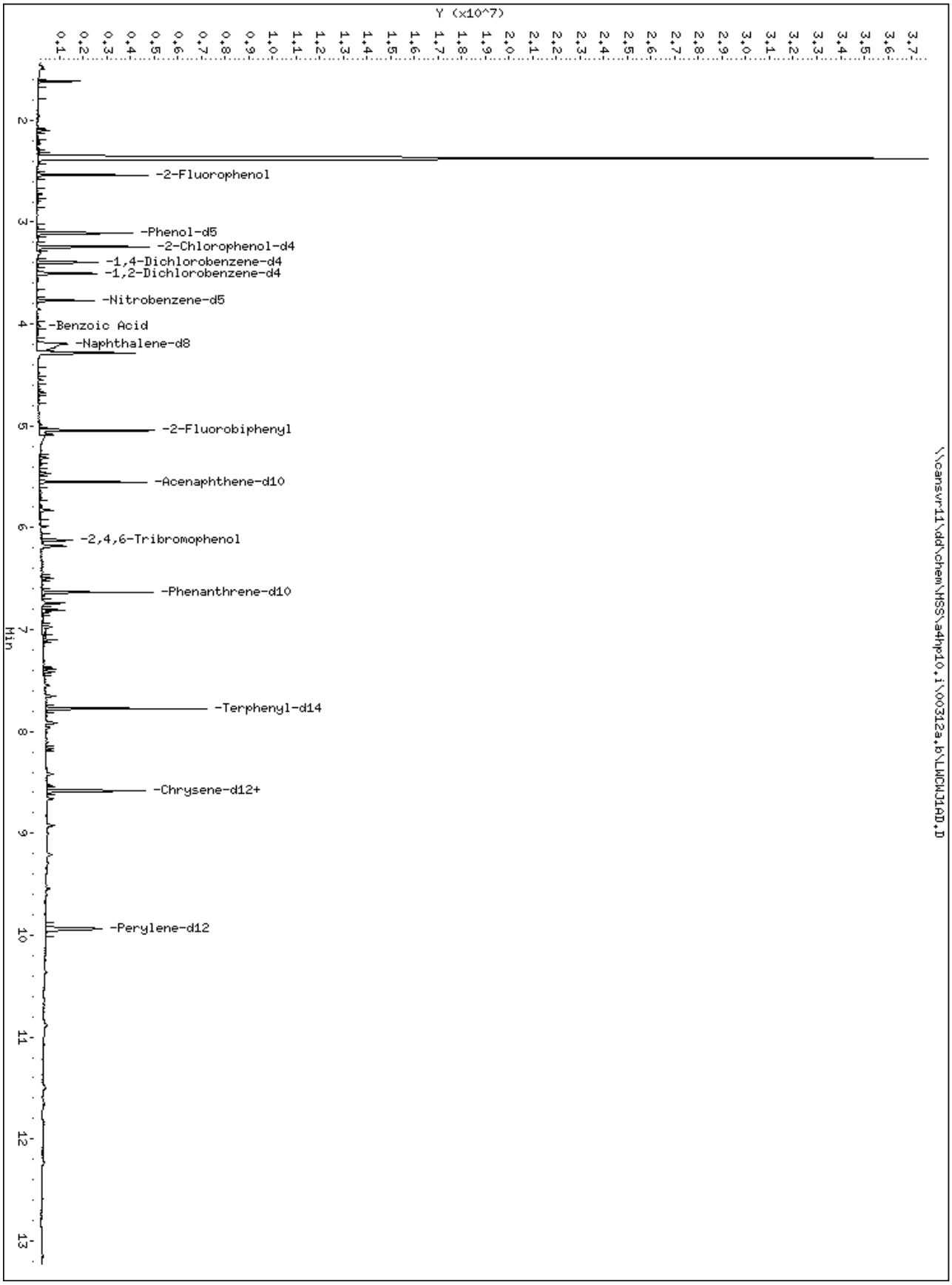
Instrument ID: a4hp10.i
Lab File ID: LWCWJ1AD.D
Lab Smp Id: lwcwj1ad
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Misc Info:

Calibration Date: 12-MAR-2010
Calibration Time: 09:19
Client Smp ID: LL6SB-069-5222-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	337451	168726	674902	357143	5.84
2 Naphthalene-d8	1316432	658216	2632864	1382274	5.00
3 Acenaphthene-d10	724165	362083	1448330	805216	11.19
4 Phenanthrene-d10	1142407	571204	2284814	1323533	15.85
5 Chrysene-d12	1292171	646086	2584342	1347578	4.29
6 Perylene-d12	1026541	513271	2053082	1143948	11.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.40	2.90	3.90	3.40	0.00
2 Naphthalene-d8	4.29	3.79	4.79	4.28	-0.12
3 Acenaphthene-d10	5.56	5.06	6.06	5.55	-0.09
4 Phenanthrene-d10	6.64	6.14	7.14	6.64	0.00
5 Chrysene-d12	8.59	8.09	9.09	8.59	-0.06
6 Perylene-d12	9.95	9.45	10.45	9.94	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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2
-2-Fluorophenol
3
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
4
-Benzoic Acid
-Naphthalene-d8
5
-2-Fluorobiphenyl
-Acenaphthene-d10
6
-2,4,6-Tribromophenol
-Phenanthrene-d10
7
Min
-Terphenyl-d14
8
-Chrysene-d12+
9
10
-Perylene-d12
11
12
13
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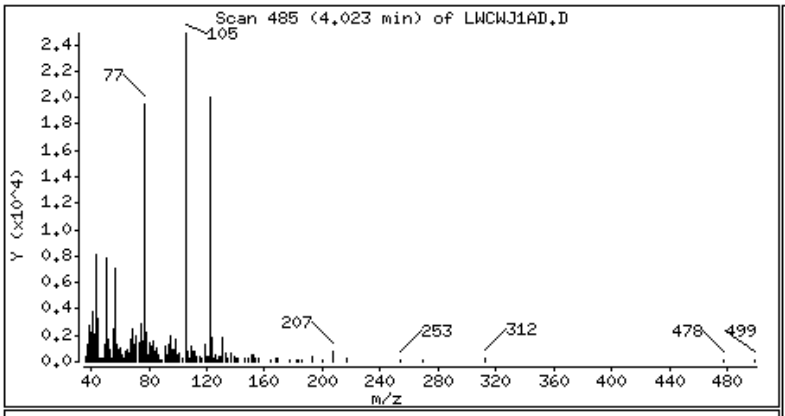
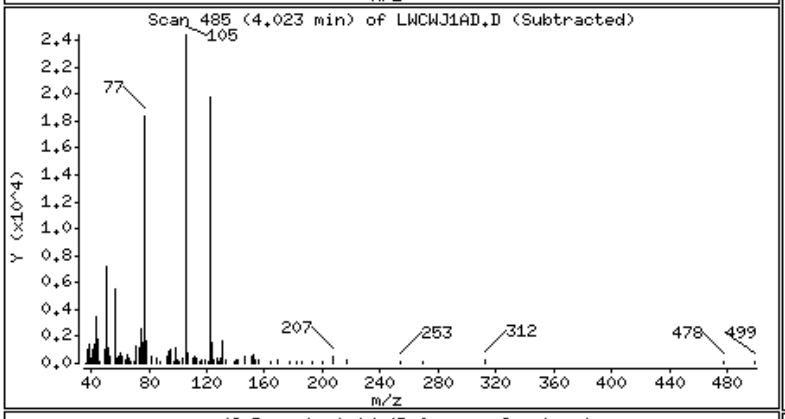
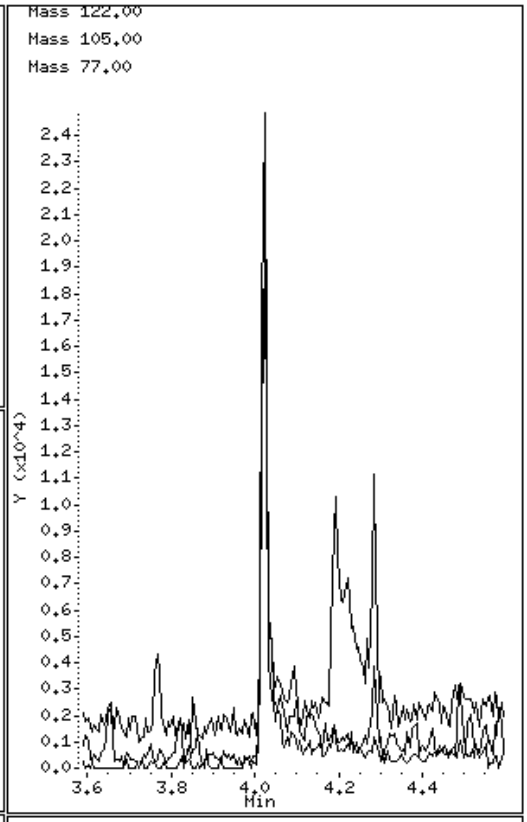
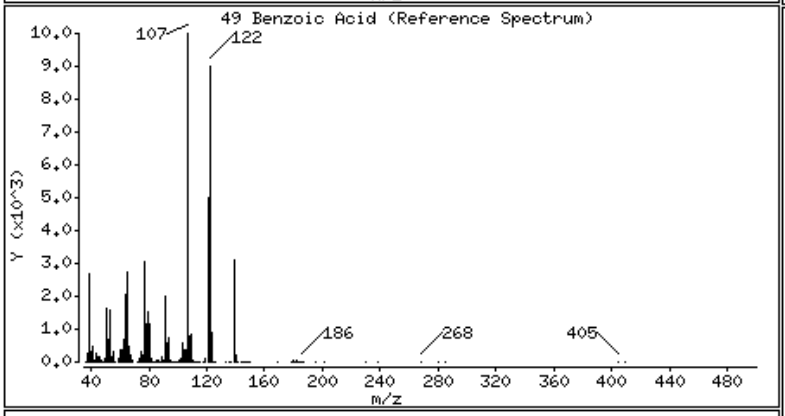
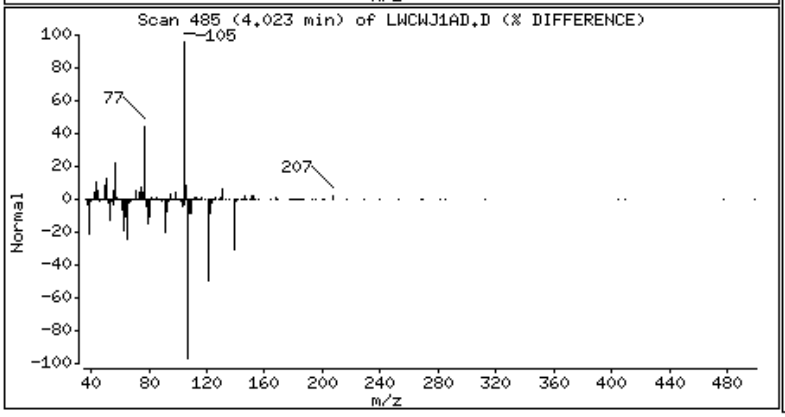
49 Benzoic Acid

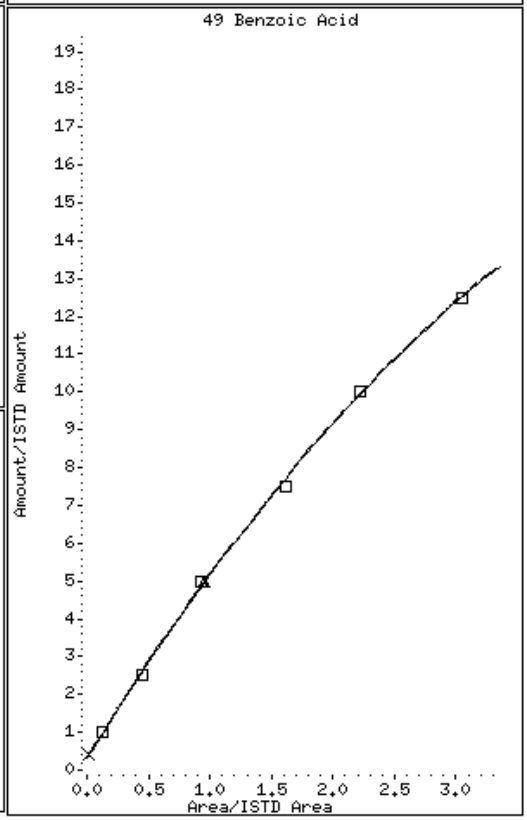




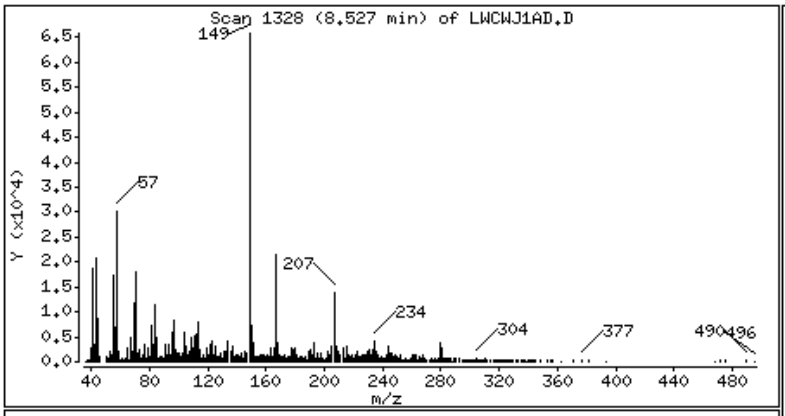


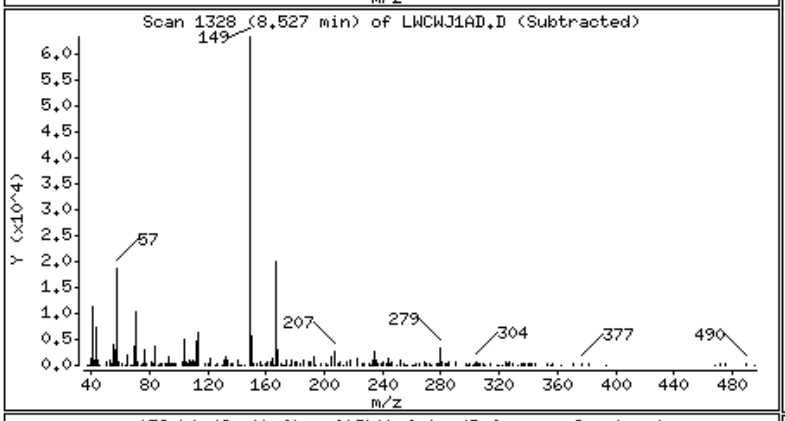


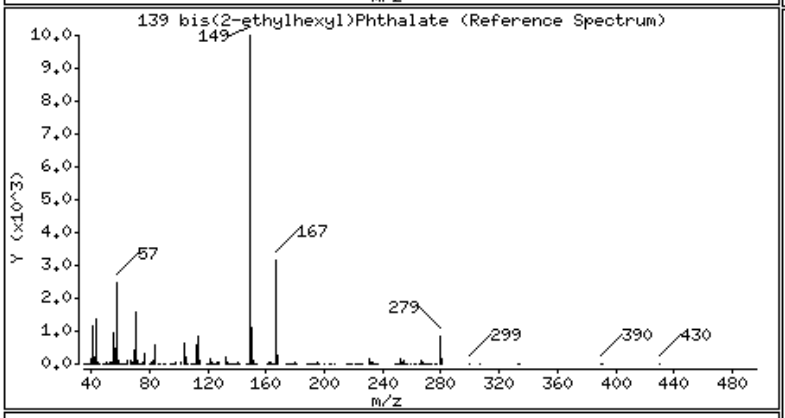


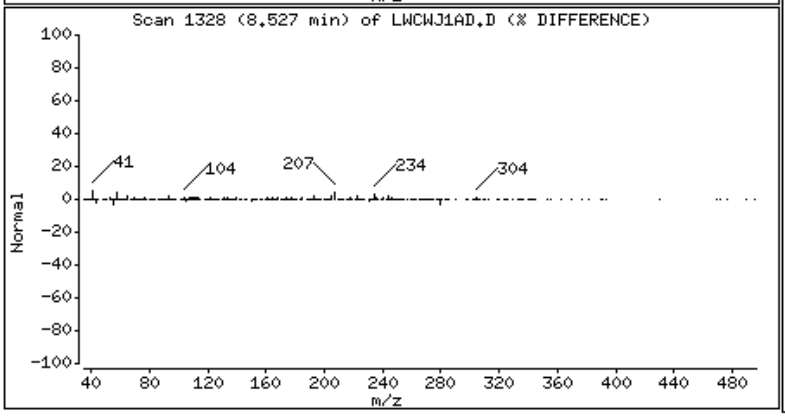


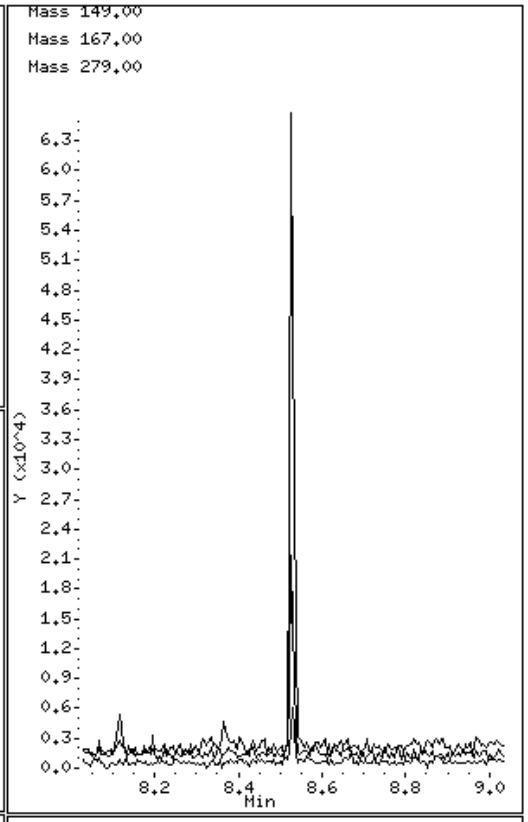
139 bis(2-ethylhexyl)Phthalate

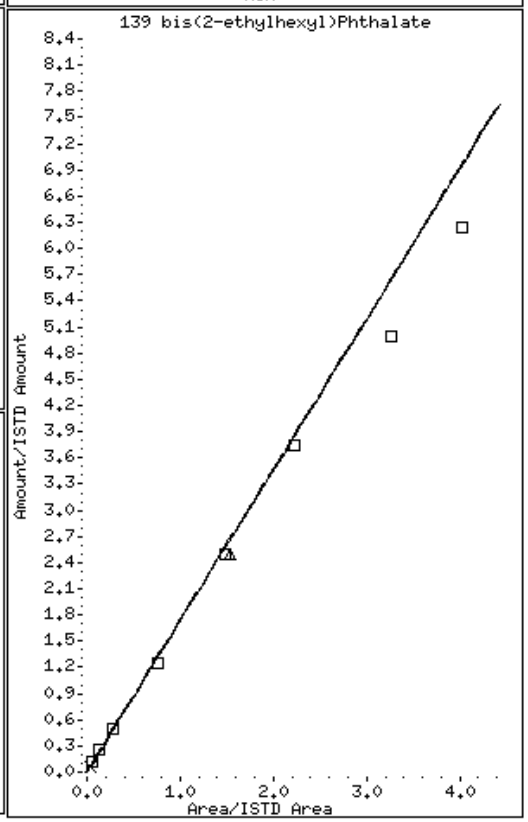












TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 09-Mar-2010 15:04

Calibration History

Method : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Start Cal Date: 08-MAR-2010 15:11
End Cal Date : 08-MAR-2010 17:49
Last Cal Level: 2
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
08-MAR-2010 16:30	1-pah	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SLL0308.D
Cal Level: 2 , Cal Amount: 0.25000		
08-MAR-2010 16:10	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SL0308.D
Cal Level: 3 , Cal Amount: 0.50000		
08-MAR-2010 15:50	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SML0308.D
Cal Level: 4 , Cal Amount: 1.00000		
08-MAR-2010 15:30	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SM0308.D
Cal Level: 5 , Cal Amount: 2.50000		
08-MAR-2010 15:11	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMM0308.D
Cal Level: 6 , Cal Amount: 5.00000		
08-MAR-2010 17:49	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMH0308.D
Cal Level: 7 , Cal Amount: 7.50000		
08-MAR-2010 17:29	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SH0308.D
Cal Level: 8 , Cal Amount: 10.00000		

08-MAR-2010 17:09	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHH0308.D		

Cal Level: 9 , Cal Amount: 12.50000		
08-MAR-2010 16:49	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHHH0308.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

08-MAR-2010 17:49	1-827042d	
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08-MAR-2010 18:08	1-827042d	
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TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2010 15:11
End Cal Date : 08-MAR-2010 17:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Last Edit : 09-Mar-2010 08:24 GruberJ
Curve Type : Average

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SLL0308.D
Level 2: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SL0308.D
Level 3: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SML0308.D
Level 4: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SM0308.D
Level 5: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMM0308.D
Level 6: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMH0308.D
Level 7: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SH0308.D
Level 8: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHH0308.D
Level 9: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHHH0308.D

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	7.500 Level 7	10.000 Level 8	12.500 Level 9	RRF	% RSD	
198 1,4-Dioxane	+++++	0.56598	0.53579	0.53246	0.56765	0.53769	0.54598	0.56977	0.59691	0.55653	4.015	<-
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++	<-
9 Pyridine	+++++	1.27982	1.23869	1.34854	1.45187	1.37281	1.43025	1.54117	1.56026	1.40292	8.216	<-
10 N-Nitrosodimethylamine	+++++	0.78036	0.77118	0.76921	0.77682	0.75262	0.76146	0.82266	0.83681	0.78389	3.804	<-
11 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++	<-
12 3-Chloropropionitrile	+++++	0.79402	0.76210	0.78206	0.78463	0.73885	0.76437	0.80362	0.83427	0.78299	3.711	<-
13 Malononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Quant Method : ISTD
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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Last Edit : 09-Mar-2010 08:24 GruberJ
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
14 2-Picoline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
15 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
16 Methyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
18 1,3-Dichloro-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
19 N-Nitrosodiethylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
21 Aniline	+++++	1.73432	1.80777	1.86549	1.92705	1.94661			
	1.93678	2.06860	2.13819				1.92810	6.798	<-
22 Phenol	+++++	1.52279	1.53439	1.55558	1.59329	1.53374			
	1.55856	1.68358	1.68844				1.58380	4.208	<-
23 bis(2-Chloroethyl)ether	+++++	1.20934	1.27122	1.25762	1.23989	1.22023			
	1.21937	1.36136	1.30979				1.26110	4.140	<-
24 2-Chlorophenol	+++++	1.18495	1.16454	1.17001	1.24053	1.21490			
	1.23630	1.32558	1.31431				1.23139	4.999	<-
25 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
26 1,3-Dichlorobenzene	+++++	1.29968	1.29828	1.28048	1.31134	1.25615			
	1.25679	1.37694	1.35297				1.30408	3.291	<-

TestAmerica North Canton

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Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
27 1,4-Dichlorobenzene	+++++	1.29371	1.31276	1.27112	1.28427	1.23391			
	1.26216	1.34935	1.32978				1.29213	2.912	<-
28 1,2-Dichlorobenzene	+++++	1.26391	1.24751	1.19347	1.22921	1.17559			
	1.18858	1.27969	1.24620				1.22802	3.103	<-
29 Benzyl Alcohol	+++++	0.72736	0.74423	0.77444	0.80849	0.78812			
	0.81707	0.88311	0.87614				0.80237	7.019	<-
30 2-Methylphenol	+++++	1.06392	1.07295	1.11313	1.17313	1.12900			
	1.13895	1.23193	1.19514				1.13977	5.107	<-
31 bis(2-Chloroisopropyl)ether	+++++	1.75484	1.76259	1.74539	1.76881	1.63887			
	1.64822	1.76903	1.71354				1.72516	3.100	<-
32 N-Nitroso-di-n-propylamine	+++++	0.81694	0.84281	0.82615	0.88165	0.85462			
	0.86036	0.91112	0.89073				0.86055	3.765	<-
M 195 Cresols, total	+++++	2.18357	2.21956	2.26673	2.38416	2.31804			
	2.32516	2.51936	2.47481				2.33642	5.044	<-
192 4-Methylphenol	+++++	1.11965	1.14661	1.15360	1.21102	1.18905			
	1.18621	1.28743	1.27967				1.19665	5.073	<-
193 3-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
34 Hexachloroethane	+++++	0.46401	0.45142	0.44142	0.45489	0.44720			
	0.44589	0.48413	0.47977				0.45859	3.478	<-
35 Nitrobenzene	+++++	0.33049	0.33534	0.32159	0.34135	0.33556			
	0.33086	0.35520	0.35728				0.33846	3.648	<-

TestAmerica North Canton

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Last Edit : 09-Mar-2010 08:24 GruberJ
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
36 N-Nitrosopyrrolidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
37 Acetophenone	+++++	1.60813	1.62388	1.59918	1.64433	1.58591			
	1.58680	1.71355	1.67280				1.62932	2.773	<-
39 o-Toluidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
40 N-Nitrosopiperidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
41 Isophorone	+++++	0.59394	0.58712	0.60838	0.63967	0.62873			
	0.62636	0.67939	0.67172				0.62941	5.334	<-
42 2-Nitrophenol	+++++	0.13796	0.15773	0.15670	0.17234	0.16711			
	0.16795	0.18014	0.17331				0.16416	8.017	<-
43 2,4-Dimethylphenol	+++++	0.28911	0.28529	0.28595	0.30884	0.30408			
	0.30291	0.32096	0.31107				0.30103	4.330	<-
44 bis(2-Chloroethoxy)methane	+++++	0.35153	0.34931	0.34711	0.36090	0.35575			
	0.35356	0.38293	0.37576				0.35961	3.619	<-
45 O,O,O-Triethyl phosphorothioa	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
46 2,4-Toluenediamene	+++++	0.08569	0.11398	0.10552	0.08651	0.09074			
	0.07774	0.10230	0.07131				0.09172	15.821	<-
47 1,3,5-Trichlorobenzene	+++++	0.28204	0.26878	0.26700	0.27957	0.26823			
	0.26976	0.29008	0.27627				0.27522	2.993	<-

TestAmerica North Canton

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Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
48 2,4-Dichlorophenol	+++++	0.19924	0.21993	0.22213	0.24308	0.23940			
	0.24043	0.25962	0.25722				0.23513	8.634	<-
49 Benzoic Acid	+++++	+++++	+++++	0.13233	0.17727	0.18621			
	0.21494	0.22132	0.24424				0.19605	20.183	<-
50 1,2,4-Trichlorobenzene	+++++	0.27005	0.27231	0.26242	0.27826	0.26423			
	0.26645	0.28608	0.28025				0.27251	3.071	<-
51 Naphthalene	0.95426	0.92255	0.90664	0.88735	0.94217	0.90990			
	0.90334	0.95084	0.80850				0.90951	4.869	
52 4-Chloroaniline	+++++	0.35487	0.37513	0.37842	0.39571	0.37241			
	0.37197	0.40837	0.41695				0.38423	5.436	<-
53 a,a-Dimethyl-phenethylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
54 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
55 Hexachloropropene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
56 Hexachlorobutadiene	+++++	0.13975	0.13163	0.13076	0.14026	0.13539			
	0.13567	0.14482	0.14456				0.13786	3.904	<-
57 1,2,3-Trichlorobenzene	+++++	0.25864	0.25483	0.24662	0.25315	0.24755			
	0.24773	0.26663	0.26183				0.25462	2.878	<-
58 N-Nitrosodi-n-butylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Last Edit : 09-Mar-2010 08:24 GruberJ
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
59 4-Chloro-3-Methylphenol	+++++	0.20795	0.21677	0.23367	0.25297	0.24721			
	0.25079	0.27123	0.26732				0.24349	9.272	<-
60 p-Phenylene diamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
61 Safrole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
62 2-Methylnaphthalene	0.52381	0.50993	0.47950	0.47369	0.50606	0.48791			
	0.49325	0.52348	0.51904				0.50185	3.787	
63 1-Methylnaphthalene	0.56589	0.56573	0.55283	0.55387	0.57646	0.56218			
	0.55896	0.59894	0.59090				0.56953	2.836	
64 Hexachlorocyclopentadiene	+++++	0.22294	0.23417	0.25810	0.27174	0.27970			
	0.27953	0.31188	0.29853				0.26958	11.212	<-
65 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
66 2,4,6-Trichlorophenol	+++++	0.27579	0.28866	0.29779	0.31099	0.30533			
	0.31853	0.34162	0.33798				0.30959	7.378	<-
67 2,4,5-Trichlorophenol	+++++	0.28785	0.28333	0.32205	0.33823	0.33771			
	0.33888	0.35978	0.35763				0.32818	8.807	<-
68 1,2,3,5-Tetrachlorobenzene	+++++	0.48259	0.46368	0.45769	0.46142	0.46713			
	0.46136	0.49563	0.48760				0.47214	3.034	<-
69 1,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Quant Method : ISTD
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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Last Edit : 09-Mar-2010 08:24 GruberJ
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
70 2-Chloronaphthalene	1.09270	1.01752	0.97831	0.99995	0.99108	0.98295			
	0.98609	1.05339	1.04802				1.01667	3.902	
71 Isosafrole 1	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
M 188 Isosafrole, Total	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
72 Isosafrole 2	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
73 2-Nitroaniline	+++++	0.26062	0.28495	0.28603	0.30717	0.29577			
	0.29705	0.32006	0.32033				0.29650	6.706	<-
74 1,2,3,4-Tetrachlorobenzene	+++++	0.43268	0.43177	0.42582	0.42666	0.41971			
	0.41893	0.45053	0.44032				0.43080	2.466	<-
75 1,4-Naphthoquinone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
76 Dimethylphthalate	+++++	1.07223	1.04520	1.08059	1.10503	1.10578			
	1.11166	1.19607	1.18744				1.11300	4.787	<-
77 m-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
78 2,6-Dinitrotoluene	+++++	0.20152	0.22401	0.23140	0.25560	0.26650			
	0.26869	0.29062	0.28603				0.25305	12.406	<-
79 Acenaphthylene	1.50180	1.54499	1.60744	1.57437	1.65126	1.62308			
	1.62922	1.73236	1.65906				1.61373	4.197	

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
80 1,2-Dinitrobenzene	+++++	0.09981	0.10967	0.12230	0.13269	0.13546			
	0.13642	0.15132	0.14631				0.12925	13.648	<-
81 3-Nitroaniline	+++++	0.23512	0.26537	0.26516	0.28875	0.29233			
	0.29592	0.32112	0.31425				0.28475	9.945	<-
82 Acenaphthene	1.05636	1.05549	1.03481	1.00308	1.02698	0.96361			
	0.96585	1.01093	0.97786				1.01055	3.551	
83 2,4-Dinitrophenol	+++++	+++++	0.09523	0.14614	0.18043	0.19074			
	0.20145	0.21432	0.21372				0.17743	24.325	<-
84 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
85 4-Nitrophenol	+++++	+++++	0.10905	0.12131	0.14242	0.13259			
	0.13906	0.15058	0.15260				0.13537	11.639	<-
86 Dibenzofuran	1.45690	1.45746	1.41536	1.38858	1.42162	1.40710			
	1.38386	1.49908	1.41603				1.42733	2.602	
87 2,4-Dinitrotoluene	+++++	0.26364	0.30922	0.31954	0.33844	0.34426			
	0.34787	0.37681	0.36911				0.33361	10.841	<-
88 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
89 1-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
90 Zinophos	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
91 2,3,5,6-Tetrachlorophenol	+++++	0.20695	0.23711	0.25259	0.26386	0.26494			
	0.27088	0.29002	0.28818				0.25932	10.553	<-
92 2-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
93 Diethylphthalate	+++++	1.01023	1.04804	1.05108	1.06433	1.06267			
	1.06638	1.14532	1.10488				1.06912	3.774	<-
94 Fluorene	1.16212	1.14280	1.15827	1.14543	1.16895	1.13566			
	1.13374	1.21077	1.17804				1.15953	2.108	
95 4-Chlorophenyl-phenylether	+++++	0.54118	0.53053	0.51514	0.53375	0.52196			
	0.51378	0.56262	0.55270				0.53396	3.276	<-
96 4-Nitroaniline	+++++	0.23147	0.25488	0.29862	0.31184	0.30998			
	0.30994	0.32694	0.32080				0.29556	11.490	<-
97 5-Nitro-o-toluidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
98 4,6-Dinitro-2-methylphenol	+++++	+++++	0.08143	0.10239	0.12536	0.13562			
	0.14015	0.15389	0.15894				0.12825	21.741	<-
99 N-Nitrosodiphenylamine	+++++	0.48810	0.49287	0.45687	0.44640	0.46596			
	0.51754	0.58216	0.59052				0.50505	10.879	<-
100 1,2-Diphenylhydrazine	+++++	0.69943	0.73157	0.75352	0.76997	0.73989			
	0.75483	0.81589	0.81045				0.75944	5.152	<-
101 Diphenylamine	+++++	0.48810	0.49287	0.45687	0.44640	0.46596			
	0.51754	0.58216	0.59052				0.50505	10.879	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
102 Tetraethyl dithiopyrophosphat	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
103 Diallate 1	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
M 189 Diallate, Total	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
104 Phorate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
105 1,3,5-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
106 4-Bromophenyl-phenylether	+++++	0.17654	0.17248	0.17220	0.17448	0.17687			
	0.18094	0.19734	0.19750				0.18104	5.789	<-
107 Hexachlorobenzene	+++++	0.17650	0.16808	0.17163	0.16727	0.17235			
	0.17522	0.19350	0.19440				0.17737	6.034	<-
108 Phenacetin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
109 Diallate 2	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
110 Dimethoate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
111 Pentachlorophenol	+++++	0.07812	0.09019	0.10191	0.11136	0.11661			
	0.12922	0.14277	0.14849				0.11483	21.477	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
L12 Pentachloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
113 4-Aminobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
114 Pronamide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
115 Phenanthrene	1.13602	1.02793	1.02574	1.00409	1.03178	1.00840			
	1.03531	1.11081	1.04318				1.04703	4.341	
116 Anthracene	1.04960	0.98319	1.00825	1.01393	1.03774	1.02069			
	1.05579	1.10981	1.06214				1.03791	3.566	
117 Dinoseb	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
118 Disulfoton	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
119 Carbazole	+++++	0.94053	0.93391	0.95919	0.98775	0.97976			
	1.00043	1.08355	1.07606				0.99515	5.723	<-
120 Di-n-Butylphthalate	+++++	0.97004	0.97120	1.03242	1.10865	1.11668			
	1.13120	1.19294	1.02445				1.06845	7.567	<-
121 4-Nitroquinoline 1-oxide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
122 Methapyrilene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
123 Fluoranthene	1.02838	0.99323	0.97986	0.97661	1.04386	1.03103			
	1.06330	1.14383	1.10709				1.04080	5.464	
124 Benzidine	+++++	0.22995	0.33092	0.41365	0.48606	0.51882			
	0.54896	0.59916	0.57381				0.46267	27.829	<-
125 Pyrene	1.00509	0.95745	0.95692	0.97440	1.02374	0.99159			
	0.99292	1.09631	1.00821				1.00074	4.235	
126 Aramite 1	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
M 191 Aramite, Total	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
127 Aramite 2	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
128 p-Dimethylamino azobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
129 p-Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
130 Famphur 1	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
131 Butylbenzylphthalate	+++++	0.32490	0.35443	0.39217	0.42626	0.42529			
	0.42546	0.46353	0.46259				0.40933	12.044	<-
132 3,3'-Dimethylbenzidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
133 3,3'-Dimethoxybenzidine	+++++	+++++	0.09603	0.14685	0.17767	0.19705			
	0.19719	0.20971	0.19025				0.17354	22.855	<-
134 2-Acetylaminofluorene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
135 3,3'-Dichlorobenzidine	+++++	0.23972	0.29983	0.30607	0.34277	0.33551			
	0.34540	0.37846	0.38270				0.32881	14.162	<-
136 Benzo(a)Anthracene	1.00406	0.93599	0.92557	0.89889	0.97057	0.95391			
	0.94475	1.06013	1.05017				0.97156	5.728	
137 Chrysene	1.03720	0.92448	0.90127	0.94110	0.92929	0.90124			
	0.87339	0.96110	0.92870				0.93308	4.996	
138 4,4'-Methylene bis(o-chloroan	+++++	0.10932	0.14222	0.14671	0.16398	0.15968			
	0.16380	0.17936	0.18241				0.15594	15.013	<-
139 bis(2-ethylhexyl)Phthalate	+++++	0.48325	0.51321	0.54413	0.60245	0.59526			
	0.59489	0.65404	0.64475				0.57900	10.471	<-
140 Di-n-octylphthalate	+++++	0.76005	0.87373	0.99718	1.15361	1.17993			
	1.20778	1.34982	1.34832				1.10880	19.333	<-
141 Benzo(b)fluoranthene	0.91788	0.90124	0.91358	0.97639	0.98071	1.09200			
	1.06418	1.17111	1.25881				1.03066	12.142	
142 Benzo(k)fluoranthene	1.18009	1.10895	1.16143	1.12191	1.23255	1.12034			
	1.16996	1.32993	1.27736				1.18917	6.404	
143 7,12-dimethylbenz[a]anthracen	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
146 Benzo(a)pyrene	0.84551	0.85173	0.88423	0.91104	0.98228	1.01710			
	1.02421	1.14893	1.15635				0.98015	12.041	
148 3-Methylcholanthrene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
149 Indeno(1,2,3-cd)pyrene	0.86199	0.84835	0.89549	0.94592	1.02672	1.06564			
	1.09107	1.22838	1.24836				1.02355	14.576	
150 Dibenz(a,h)anthracene	0.67219	0.71811	0.70752	0.76442	0.87344	0.89915			
	0.91054	1.04414	1.05829				0.84976	16.867	
151 Benzo(g,h,i)perylene	0.86510	0.79187	0.78002	0.79270	0.86057	0.87273			
	0.87256	0.99967	1.01456				0.87220	9.760	
199 3-Picoline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
200 N,N-Dimethylacetamide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
209 Benzaldehyde	+++++	0.89476	0.88057	0.86902	0.88317	0.71257			
	0.63846	0.65548	+++++				0.79058	14.711	<-
210 Caprolactam	+++++	+++++	0.06947	0.07983	0.09683	0.09878			
	0.10009	0.10771	0.10510				0.09397	14.935	<-
211 1,1'-Biphenyl	+++++	1.37059	1.33812	1.30380	1.31006	1.27792			
	1.25922	1.35564	1.29317				1.31356	2.931	<-
212 Atrazine	+++++	0.10508	0.11587	0.12056	0.12913	0.12438			
	0.12081	0.12627	0.11931				0.12017	6.154	<-
213 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
214 1,3-Dimethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
215 Phenyl ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
216 1,3-Diethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
217 1,3-Dibutyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
218 1,1,3,3-Tetramethyl-2-Thioure	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
219 o-Benzyl Phenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
220 Diphenyl Thiourea	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
221 Hexabromobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
222 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
223 1,2-bis(2-chloroethoxy)ethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
224 Acrylamide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
225 Methyl parathion	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2010 15:11
End Cal Date : 08-MAR-2010 17:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Last Edit : 09-Mar-2010 08:24 GruberJ
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
226 Parathion	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
227 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
228 Kepone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
M 229 Famphur,Total	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
230 Famphur 2	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
231 2-Chloroacetophenone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
232 2-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
233 3-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
234 4-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
235 Tributyl phosphate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
236 Phenyl sulfone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
237 3,4-Dichloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
238 Bis(2-hydroxyphenyl)methane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
239 Bis(4-hydroxyphenyl)methane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
240 4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
241 2,3-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
242 2,5-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
243 Octachlorostyrene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
244 Octachlorocyclopentene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
245 N-methyl-pyrrolidone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 154 Nitrobenzene-d5	0.33567	0.32194	0.31359	0.32245	0.34595	0.33775			
	0.33658	0.35899	0.35865				0.33684	4.719	
$ 155 2-Fluorobiphenyl	1.19835	1.20316	1.14664	1.14415	1.16299	1.15807			
	1.14392	1.23547	1.22196				1.17941	3.024	

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Last Edit : 09-Mar-2010 08:24 GruberJ
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
$ 156 Terphenyl-d14	0.53562	0.54037	0.54872	0.56213	0.58233	0.57872			
	0.58532	0.64791	0.64840				0.58106	7.239	
$ 157 Phenol-d5	1.46447	1.36661	1.42297	1.42179	1.49291	1.45171			
	1.47166	1.59985	1.59862				1.47673	5.306	
$ 158 2-Fluorophenol	1.04359	1.07960	1.08832	1.05570	1.12739	1.10937			
	1.14047	1.20782	1.23078				1.12034	5.748	
$ 159 2,4,6-Tribromophenol	+++++	0.09779	0.09913	0.10582	0.10817	0.11078			
	0.11305	0.12406	0.12305				0.11023	8.846	<-
$ 186 2-Chlorophenol-d4	+++++	1.04791	1.05586	1.05302	1.12635	1.10785			
	1.13130	1.20741	1.20192				1.11645	5.702	<-
$ 187 1,2-Dichlorobenzene-d4	+++++	0.78322	0.78148	0.77755	0.78769	0.75568			
	0.76441	0.83337	0.81397				0.78717	3.222	<-

Report Date : 09-Mar-2010 15:08

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INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Last Edit : 09-Mar-2010 08:24 GruberJ

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SLL0308.D
Level 2: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SL0308.D
Level 3: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SML0308.D
Level 4: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SM0308.D
Level 5: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMM0308.D
Level 6: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMH0308.D
Level 7: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SH0308.D
Level 8: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHH0308.D
Level 9: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHHH0308.D

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
198 1,4-Dioxane	+++++	0.56598	0.53579	0.53246	0.56765	0.53769						
	0.54598	0.56977	0.59691				AVRG		0.55653		4.01465	<-
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
9 Pyridine	+++++	1.27982	1.23869	1.34854	1.45187	1.37281						
	1.43025	1.54117	1.56026				AVRG		1.40292		8.21600	<-
10 N-Nitrosodimethylamine	+++++	0.78036	0.77118	0.76921	0.77682	0.75262						
	0.76146	0.82266	0.83681				AVRG		0.78389		3.80390	<-
11 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
12 3-Chloropropionitrile	+++++	0.79402	0.76210	0.78206	0.78463	0.73885						
	0.76437	0.80362	0.83427				AVRG		0.78299		3.71138	<-
13 Malononitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
14 2-Picoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
15 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
16 Methyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
18 1,3-Dichloro-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
19 N-Nitrosodiethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
21 Aniline	+++++	1.73432	1.80777	1.86549	1.92705	1.94661						
	1.93678	2.06860	2.13819				AVRG		1.92810		6.79766	<-
22 Phenol	+++++	1.52279	1.53439	1.55558	1.59329	1.53374						
	1.55856	1.68358	1.68844				AVRG		1.58380		4.20847	<-
23 bis(2-Chloroethyl)ether	+++++	1.20934	1.27122	1.25762	1.23989	1.22023						
	1.21937	1.36136	1.30979				AVRG		1.26110		4.13969	<-
24 2-Chlorophenol	+++++	1.18495	1.16454	1.17001	1.24053	1.21490						
	1.23630	1.32558	1.31431				AVRG		1.23139		4.99852	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
25 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
26 1,3-Dichlorobenzene	+++++	1.29968	1.29828	1.28048	1.31134	1.25615						
	1.25679	1.37694	1.35297				AVRG		1.30408		3.29122	<-
27 1,4-Dichlorobenzene	+++++	1.29371	1.31276	1.27112	1.28427	1.23391						
	1.26216	1.34935	1.32978				AVRG		1.29213		2.91217	<-
28 1,2-Dichlorobenzene	+++++	1.26391	1.24751	1.19347	1.22921	1.17559						
	1.18858	1.27969	1.24620				AVRG		1.22802		3.10342	<-
29 Benzyl Alcohol	+++++	0.72736	0.74423	0.77444	0.80849	0.78812						
	0.81707	0.88311	0.87614				AVRG		0.80237		7.01939	<-
30 2-Methylphenol	+++++	1.06392	1.07295	1.11313	1.17313	1.12900						
	1.13895	1.23193	1.19514				AVRG		1.13977		5.10706	<-
31 bis(2-Chloroisopropyl)ether	+++++	1.75484	1.76259	1.74539	1.76881	1.63887						
	1.64822	1.76903	1.71354				AVRG		1.72516		3.10010	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
32 N-Nitroso-di-n-propylamine	+++++	0.81694	0.84281	0.82615	0.88165	0.85462						
	0.86036	0.91112	0.89073				AVRG		0.86055		3.76506	<-
M 195 Cresols, total	+++++	2.18357	2.21956	2.26673	2.38416	2.31804						
	2.32516	2.51936	2.47481				AVRG		2.33642		5.04446	<-
192 4-Methylphenol	+++++	1.11965	1.14661	1.15360	1.21102	1.18905						
	1.18621	1.28743	1.27967				AVRG		1.19665		5.07252	<-
193 3-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
34 Hexachloroethane	+++++	0.46401	0.45142	0.44142	0.45489	0.44720						
	0.44589	0.48413	0.47977				AVRG		0.45859		3.47823	<-
35 Nitrobenzene	+++++	0.33049	0.33534	0.32159	0.34135	0.33556						
	0.33086	0.35520	0.35728				AVRG		0.33846		3.64799	<-
36 N-Nitrosopyrrolidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
37 Acetophenone	+++++	1.60813	1.62388	1.59918	1.64433	1.58591						
	1.58680	1.71355	1.67280				AVRG		1.62932		2.77314	<-
39 o-Toluidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
40 N-Nitrosopiperidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
41 Isophorone	+++++	0.59394	0.58712	0.60838	0.63967	0.62873						
	0.62636	0.67939	0.67172				AVRG		0.62941		5.33447	<-
42 2-Nitrophenol	+++++	0.13796	0.15773	0.15670	0.17234	0.16711						
	0.16795	0.18014	0.17331				AVRG		0.16416		8.01722	<-
43 2,4-Dimethylphenol	+++++	0.28911	0.28529	0.28595	0.30884	0.30408						
	0.30291	0.32096	0.31107				AVRG		0.30103		4.32955	<-
44 bis(2-Chloroethoxy)methane	+++++	0.35153	0.34931	0.34711	0.36090	0.35575						
	0.35356	0.38293	0.37576				AVRG		0.35961		3.61878	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
45 O,O,O-Triethyl phosphorothioa	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
46 2,4-Toluenediamene	+++++	13877	33890	64401	115763	333884						
	361085	+++++	+++++				QUAD	0.04019	8.31512	14.22254	0.99489	<-
47 1,3,5-Trichlorobenzene	+++++	0.28204	0.26878	0.26700	0.27957	0.26823						
	0.26976	0.29008	0.27627				AVRG		0.27522		2.99272	<-
48 2,4-Dichlorophenol	+++++	0.19924	0.21993	0.22213	0.24308	0.23940						
	0.24043	0.25962	0.25722				AVRG		0.23513		8.63446	<-
49 Benzoic Acid	+++++	+++++	+++++	161524	474436	1370398						
	1996661	2693963	3815329				QUAD	0.32222	5.21759	-0.40126	0.99921	<-
50 1,2,4-Trichlorobenzene	+++++	0.27005	0.27231	0.26242	0.27826	0.26423						
	0.26645	0.28608	0.28025				AVRG		0.27251		3.07118	<-
51 Naphthalene	0.95426	0.92255	0.90664	0.88735	0.94217	0.90990						
	0.90334	0.95084	0.80850				AVRG		0.90951		4.86887	

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
52 4-Chloroaniline	+++++	0.35487	0.37513	0.37842	0.39571	0.37241						
	0.37197	0.40837	0.41695				AVRG		0.38423		5.43613	<-
53 a,a-Dimethyl-phenethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
54 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
55 Hexachloropropene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
56 Hexachlorobutadiene	+++++	0.13975	0.13163	0.13076	0.14026	0.13539						
	0.13567	0.14482	0.14456				AVRG		0.13786		3.90403	<-
57 1,2,3-Trichlorobenzene	+++++	0.25864	0.25483	0.24662	0.25315	0.24755						
	0.24773	0.26663	0.26183				AVRG		0.25462		2.87788	<-
58 N-Nitrosodi-n-butylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
59 4-Chloro-3-Methylphenol	+++++	0.20795	0.21677	0.23367	0.25297	0.24721						
	0.25079	0.27123	0.26732				AVRG		0.24349		9.27171	<-
60 p-Phenylene diamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
61 Safrole	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
62 2-Methylnaphthalene	0.52381	0.50993	0.47950	0.47369	0.50606	0.48791						
	0.49325	0.52348	0.51904				AVRG		0.50185		3.78678	
63 1-Methylnaphthalene	0.56589	0.56573	0.55283	0.55387	0.57646	0.56218						
	0.55896	0.59894	0.59090				AVRG		0.56953		2.83629	
64 Hexachlorocyclopentadiene	+++++	0.22294	0.23417	0.25810	0.27174	0.27970						
	0.27953	0.31188	0.29853				AVRG		0.26958		11.21152	<-
65 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Method file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Last Edit : 09-Mar-2010 08:24 GruberJ

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
66 2,4,6-Trichlorophenol	+++++	0.27579	0.28866	0.29779	0.31099	0.30533						
	0.31853	0.34162	0.33798				AVRG		0.30959		7.37794	<-
67 2,4,5-Trichlorophenol	+++++	0.28785	0.28333	0.32205	0.33823	0.33771						
	0.33888	0.35978	0.35763				AVRG		0.32818		8.80672	<-
68 1,2,3,5-Tetrachlorobenzene	+++++	0.48259	0.46368	0.45769	0.46142	0.46713						
	0.46136	0.49563	0.48760				AVRG		0.47214		3.03430	<-
69 1,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
70 2-Chloronaphthalene	1.09270	1.01752	0.97831	0.99995	0.99108	0.98295						
	0.98609	1.05339	1.04802				AVRG		1.01667		3.90221	
71 Isosafrole 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
M 188 Isosafrole, Total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
72 Isosafrole 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
73 2-Nitroaniline	+++++	0.26062	0.28495	0.28603	0.30717	0.29577						
	0.29705	0.32006	0.32033				AVRG		0.29650		6.70632	<-
74 1,2,3,4-Tetrachlorobenzene	+++++	0.43268	0.43177	0.42582	0.42666	0.41971						
	0.41893	0.45053	0.44032				AVRG		0.43080		2.46601	<-
75 1,4-Naphthoquinone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
76 Dimethylphthalate	+++++	1.07223	1.04520	1.08059	1.10503	1.10578						
	1.11166	1.19607	1.18744				AVRG		1.11300		4.78685	<-
77 m-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
78 2,6-Dinitrotoluene	+++++	0.20152	0.22401	0.23140	0.25560	0.26650						
	0.26869	0.29062	0.28603				AVRG		0.25305		12.40619	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
79 Acenaphthylene	1.50180	1.54499	1.60744	1.57437	1.65126	1.62308						
	1.62922	1.73236	1.65906				AVRG		1.61373		4.19748	
80 1,2-Dinitrobenzene	+++++	0.09981	0.10967	0.12230	0.13269	0.13546						
	0.13642	0.15132	0.14631				AVRG		0.12925		13.64828	<-
81 3-Nitroaniline	+++++	0.23512	0.26537	0.26516	0.28875	0.29233						
	0.29592	0.32112	0.31425				AVRG		0.28475		9.94531	<-
82 Acenaphthene	1.05636	1.05549	1.03481	1.00308	1.02698	0.96361						
	0.96585	1.01093	0.97786				AVRG		1.01055		3.55101	
83 2,4-Dinitrophenol	+++++	+++++	29709	95411	265442	757284						
	1015270	1396454	1766303				QUAD	0.28536	5.01205	-0.17914	0.99949	<-
84 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
85 4-Nitrophenol	+++++	+++++	0.10905	0.12131	0.14242	0.13259						
	0.13906	0.15058	0.15260				AVRG		0.13537		11.63905	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
86 Dibenzofuran	1.45690	1.45746	1.41536	1.38858	1.42162	1.40710						
	1.38386	1.49908	1.41603				AVRG		1.42733		2.60202	
87 2,4-Dinitrotoluene	+++++	0.26364	0.30922	0.31954	0.33844	0.34426						
	0.34787	0.37681	0.36911				AVRG		0.33361		10.84067	<-
88 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
89 1-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
90 Zinophos	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
91 2,3,5,6-Tetrachlorophenol	+++++	0.20695	0.23711	0.25259	0.26386	0.26494						
	0.27088	0.29002	0.28818				AVRG		0.25932		10.55279	<-
92 2-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
93 Diethylphthalate	+++++	1.01023	1.04804	1.05108	1.06433	1.06267						
	1.06638	1.14532	1.10488				AVRG		1.06912		3.77397	<-
94 Fluorene	1.16212	1.14280	1.15827	1.14543	1.16895	1.13566						
	1.13374	1.21077	1.17804				AVRG		1.15953		2.10772	
95 4-Chlorophenyl-phenylether	+++++	0.54118	0.53053	0.51514	0.53375	0.52196						
	0.51378	0.56262	0.55270				AVRG		0.53396		3.27619	<-
96 4-Nitroaniline	+++++	0.23147	0.25488	0.29862	0.31184	0.30998						
	0.30994	0.32694	0.32080				AVRG		0.29556		11.49038	<-
97 5-Nitro-o-toluidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
98 4,6-Dinitro-2-methylphenol	+++++	+++++	19965	52665	144430	422123						
	543900	763924	985121				QUAD	0.10897	7.54108	-1.40047	0.99962	<-
99 N-Nitrosodiphenylamine	+++++	0.48810	0.49287	0.45687	0.44640	0.46596						
	0.51754	0.58216	0.59052				AVRG		0.50505		10.87881	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
100 1,2-Diphenylhydrazine	+++++	0.69943	0.73157	0.75352	0.76997	0.73989						
	0.75483	0.81589	0.81045				AVRG		0.75944		5.15197	<-
101 Diphenylamine	+++++	0.48810	0.49287	0.45687	0.44640	0.46596						
	0.51754	0.58216	0.59052				AVRG		0.50505		10.87881	<-
102 Tetraethyl dithiopyrophosphat	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
103 Diallate 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
M 189 Diallate, Total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
104 Phorate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
105 1,3,5-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
106 4-Bromophenyl-phenylether	+++++	0.17654	0.17248	0.17220	0.17448	0.17687						
	0.18094	0.19734	0.19750				AVRG		0.18104		5.78900	<-
107 Hexachlorobenzene	+++++	0.17650	0.16808	0.17163	0.16727	0.17235						
	0.17522	0.19350	0.19440				AVRG		0.17737		6.03446	<-
108 Phenacetin	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
109 Diallate 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
110 Dimethoate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
111 Pentachlorophenol	+++++	21113	44230	104835	256610	725908						
	1002918	1417499	1840767				QUAD	0.14003	8.67723	-1.12278	0.99927	<-
112 Pentachloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
113 4-Aminobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
114 Pronamide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
115 Phenanthrene	1.13602	1.02793	1.02574	1.00409	1.03178	1.00840						
	1.03531	1.11081	1.04318				AVRG		1.04703		4.34085	
116 Anthracene	1.04960	0.98319	1.00825	1.01393	1.03774	1.02069						
	1.05579	1.10981	1.06214				AVRG		1.03791		3.56587	
117 Dinoseb	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
118 Disulfoton	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
119 Carbazole	+++++	0.94053	0.93391	0.95919	0.98775	0.97976						
	1.00043	1.08355	1.07606				AVRG		0.99515		5.72329	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
120 Di-n-Butylphthalate	+++++	0.97004	0.97120	1.03242	1.10865	1.11668						
	1.13120	1.19294	1.02445				AVRG		1.06845		7.56673	<-
121 4-Nitroquinoline 1-oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
122 Methapyrilene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
123 Fluoranthene	1.02838	0.99323	0.97986	0.97661	1.04386	1.03103						
	1.06330	1.14383	1.10709				AVRG		1.04080		5.46366	
124 Benzidine	+++++	34097	89073	232298	610932	1799315						
	2419201	3345230	4003828				QUAD	0.11420	1.84608	-0.04769	0.99808	<-
125 Pyrene	1.00509	0.95745	0.95692	0.97440	1.02374	0.99159						
	0.99292	1.09631	1.00821				AVRG		1.00074		4.23502	
126 Aramite 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
M 191 Aramite, Total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
127 Aramite 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
128 p-Dimethylamino azobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
129 p-Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
130 Famphur 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
131 Butylbenzylphthalate	+++++	0.32490	0.35443	0.39217	0.42626	0.42529						
	0.42546	0.46353	0.46259				AVRG		0.40933		12.04390	<-
132 3,3'-Dimethylbenzidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
133 3,3'-Dimethoxybenzidine	+++++	+++++	25847	82467	223314	683389						
	869017	1170864	1327523				QUAD	0.18986	4.39826	0.44810	0.99573	<-
134 2-Acetylaminofluorene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
135 3,3'-Dichlorobenzidine	+++++	0.23972	0.29983	0.30607	0.34277	0.33551						
	0.34540	0.37846	0.38270				AVRG		0.32881		14.16165	<-
136 Benzo(a)Anthracene	1.00406	0.93599	0.92557	0.89889	0.97057	0.95391						
	0.94475	1.06013	1.05017				AVRG		0.97156		5.72760	
137 Chrysene	1.03720	0.92448	0.90127	0.94110	0.92929	0.90124						
	0.87339	0.96110	0.92870				AVRG		0.93308		4.99616	
138 4,4'-Methylene bis(o-chloroan	+++++	16210	38282	82389	206108	553777						
	721850	1001411	1272793				QUAD	0.01934	6.53313	-0.96587	0.99937	<-
139 bis(2-ethylhexyl)Phthalate	+++++	0.48325	0.51321	0.54413	0.60245	0.59526						
	0.59489	0.65404	0.64475				AVRG		0.57900		10.47148	<-

TestAmerica North Canton

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End Cal Date : 08-MAR-2010 17:49
Quant Method : ISTD
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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Last Edit : 09-Mar-2010 08:24 GruberJ

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
140 Di-n-octylphthalate	+++++	90049	187096	453358	1161250	3245960						
	4241824	5988545	7430406				QUAD	0.05785	0.87216	-0.01730	0.99894	<-
141 Benzo(b)fluoranthene	0.91788	0.90124	0.91358	0.97639	0.98071	1.09200						
	1.06418	1.17111	1.25881				AVRG		1.03066		12.14194	
142 Benzo(k)fluoranthene	1.18009	1.10895	1.16143	1.12191	1.23255	1.12034						
	1.16996	1.32993	1.27736				AVRG		1.18917		6.40371	
143 7,12-dimethylbenz[a]anthracen	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
146 Benzo(a)pyrene	0.84551	0.85173	0.88423	0.91104	0.98228	1.01710						
	1.02421	1.14893	1.15635				AVRG		0.98015		12.04143	

TestAmerica North Canton

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Last Edit : 09-Mar-2010 08:24 GruberJ

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
148 3-Methylcholanthrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
149 Indeno(1,2,3-cd)pyrene	0.86199	0.84835	0.89549	0.94592	1.02672	1.06564						
	1.09107	1.22838	1.24836				AVRG		1.02355		14.57567	
150 Dibenz(a,h)anthracene	16199	85080	151505	347535	879224	2473529						
	3197904	4632379	5832112				QUAD	0.02871	1.18726	-0.03894	0.99886	
151 Benzo(g,h,i)perylene	0.86510	0.79187	0.78002	0.79270	0.86057	0.87273						
	0.87256	0.99967	1.01456				AVRG		0.87220		9.76010	
199 3-Picoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
200 N,N-Dimethylacetamide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
209 Benzaldehyde	+++++	0.89476	0.88057	0.86902	0.88317	0.71257	AVRG		0.79058		14.71080	<-
	0.63846	0.65548	+++++									

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
210 Caprolactam	+++++	+++++	0.06947	0.07983	0.09683	0.09878						
	0.10009	0.10771	0.10510				AVRG		0.09397		14.93490	<-
211 1,1'-Biphenyl	+++++	1.37059	1.33812	1.30380	1.31006	1.27792						
	1.25922	1.35564	1.29317				AVRG		1.31356		2.93052	<-
212 Atrazine	+++++	0.10508	0.11587	0.12056	0.12913	0.12438						
	0.12081	0.12627	0.11931				AVRG		0.12017		6.15388	<-
213 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
214 1,3-Dimethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
215 Phenyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
216 1,3-Diethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
217 1,3-Dibutyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
218 1,1,3,3-Tetramethyl-2-Thioure	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
219 o-Benzyl Phenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
220 Diphenyl Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
221 Hexabromobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
222 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
223 1,2-bis(2-chloroethoxy)ethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
224 Acrylamide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
225 Methyl parathion	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
226 Parathion	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
227 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
228 Kepone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
M 229 Famphur,Total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
230 Famphur 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Method file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Last Edit : 09-Mar-2010 08:24 GruberJ

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
231 2-Chloroacetophenone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
232 2-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
233 3-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
234 4-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
235 Tributyl phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
236 Phenyl sulfone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
237 3,4-Dichloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
238 Bis(2-hydroxyphenyl)methane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
239 Bis(4-hydroxyphenyl)methane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
240 4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
241 2,3-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
242 2,5-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
243 Octachlorostyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
244 Octachlorocyclopentene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
245 N-methyl-pyrrolidone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
$ 154 Nitrobenzene-d5	0.33567	0.32194	0.31359	0.32245	0.34595	0.33775						
	0.33658	0.35899	0.35865				AVRG		0.33684		4.71892	
$ 155 2-Fluorobiphenyl	1.19835	1.20316	1.14664	1.14415	1.16299	1.15807						
	1.14392	1.23547	1.22196				AVRG		1.17941		3.02431	
$ 156 Terphenyl-d14	0.53562	0.54037	0.54872	0.56213	0.58233	0.57872						
	0.58532	0.64791	0.64840				AVRG		0.58106		7.23892	
$ 157 Phenol-d5	1.46447	1.36661	1.42297	1.42179	1.49291	1.45171						
	1.47166	1.59985	1.59862				AVRG		1.47673		5.30594	
$ 158 2-Fluorophenol	1.04359	1.07960	1.08832	1.05570	1.12739	1.10937						
	1.14047	1.20782	1.23078				AVRG		1.12034		5.74821	
$ 159 2,4,6-Tribromophenol	+++++	0.09779	0.09913	0.10582	0.10817	0.11078						
	0.11305	0.12406	0.12305				AVRG		0.11023		8.84559	<-

TestAmerica North Canton

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Last Edit : 09-Mar-2010 08:24 GruberJ

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
$ 186 2-Chlorophenol-d4	+++++	1.04791	1.05586	1.05302	1.12635	1.10785						
	1.13130	1.20741	1.20192				AVRG		1.11645		5.70153	<-
$ 187 1,2-Dichlorobenzene-d4	+++++	0.78322	0.78148	0.77755	0.78769	0.75568						
	0.76441	0.83337	0.81397				AVRG		0.78717		3.22204	<-

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Last Edit : 09-Mar-2010 08:24 GruberJ

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SH0308.D
Lab Smp Id: L7
Inj Date : 08-MAR-2010 17:29
Operator : 001710 Inst ID: a4hp10.i
Smp Info : L7,00308a.b,8270C-625,1-827042d.sub,1,,7
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 08:24 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 17:29 Cal File: 1SH0308.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.475	3.475	(1.000)	327977	2.00000	
* 2	Naphthalene-d8	136	4.362	4.362	(1.000)	1238594	2.00000	
* 3	Acenaphthene-d10	164	5.628	5.628	(1.000)	671978	2.00000	
* 4	Phenanthrene-d10	188	6.713	6.713	(1.000)	1034873	2.00000	
* 5	Chrysene-d12	240	8.668	8.668	(1.000)	1175176	2.00000	
* 6	Perylene-d12	264	10.073	10.073	(1.000)	936555	2.00000	
198	1,4-Dioxane	88	1.686	1.686	(0.485)	671506	7.50000	7.3578
9	Pyridine	79	1.878	1.878	(0.540)	1759080	7.50000	7.6461
10	N-Nitrosodimethylamine	74	1.846	1.846	(0.531)	936524	7.50000	7.2853
12	3-Chloropropionitrile	54	2.252	2.252	(0.648)	940111	7.50000	7.3216
209	Benzaldehyde	77	3.181	3.181	(0.915)	785253	7.50000	6.3461
21	Aniline	93	3.251	3.251	(0.935)	2382075	7.50000	7.5338
22	Phenol	94	3.187	3.187	(0.917)	1916889	7.50000	7.3805
23	bis(2-Chloroethyl)ether	93	3.272	3.272	(0.942)	1499718	7.50000	7.2518
24	2-Chlorophenol	128	3.331	3.331	(0.959)	1520541	7.50000	7.5299
26	1,3-Dichlorobenzene	146	3.438	3.438	(0.989)	1545743	7.50000	7.2280
27	1,4-Dichlorobenzene	146	3.486	3.486	(1.003)	1552344	7.50000	7.3260
28	1,2-Dichlorobenzene	146	3.593	3.593	(1.034)	1461851	7.50000	7.2591
29	Benzyl Alcohol	108	3.545	3.545	(1.020)	1004926	7.50000	7.6374
30	2-Methylphenol	108	3.603	3.603	(1.037)	1400807	7.50000	7.4946
31	bis(2-Chloroisopropyl)ether	45	3.630	3.630	(1.045)	2027168	7.50000	7.1655
37	Acetophenone	105	3.737	3.737	(1.075)	1951626	7.50000	7.3043
32	N-Nitroso-di-n-propylamine	70	3.726	3.726	(1.072)	1058165	7.50000	7.4984
192	4-Methylphenol	108	3.705	3.705	(1.066)	1458938	7.50000	7.4346
34	Hexachloroethane	117	3.828	3.828	(1.101)	548411	7.50000	7.2923
35	Nitrobenzene	77	3.865	3.865	(0.886)	1536758	7.50000	7.3316
41	Isophorone	82	4.025	4.025	(0.923)	2909290	7.50000	7.4637
42	2-Nitrophenol	139	4.084	4.084	(0.936)	780072	7.50000	7.6732
43	2,4-Dimethylphenol	107	4.084	4.084	(0.936)	1406925	7.50000	7.5469
44	bis(2-Chloroethoxy)methane	93	4.154	4.154	(0.952)	1642190	7.50000	7.3739
46	2,4-Toluenediamene	121	5.185	5.185	(1.189)	361085	7.50000	6.3567

47	1,3,5-Trichlorobenzene	180	4.095	4.095 (0.939)	1252974	7.50000	7.3514
48	2,4-Dichlorophenol	162	4.244	4.244 (0.973)	1116716	7.50000	7.6690

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
49	Benzoic Acid	122	4.175	4.175	(0.957)	1996661	15.0000	20.857(MH)
50	1,2,4-Trichlorobenzene	180	4.314	4.314	(0.989)	1237593	7.50000	7.3333
51	Naphthalene	128	4.378	4.378	(1.004)	4195781	7.50000	7.4492
52	4-Chloroaniline	127	4.399	4.399	(1.009)	1727713	7.50000	7.2608
56	Hexachlorobutadiene	225	4.453	4.453	(1.021)	630169	7.50000	7.3813
210	Caprolactam	113	4.661	4.661	(1.069)	464912	7.50000	12.377
57	1,2,3-Trichlorobenzene	180	4.480	4.480	(1.027)	1150655	7.50000	7.2971
59	4-Chloro-3-Methylphenol	107	4.725	4.725	(1.083)	1164847	7.50000	7.7248
62	2-Methylnaphthalene	142	4.870	4.870	(1.116)	2291028	7.50000	7.3715
63	1-Methylnaphthalene	142	4.944	4.944	(1.133)	2596196	7.50000	7.3608
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	704405	7.50000	7.7771
66	2,4,6-Trichlorophenol	196	5.062	5.062	(0.899)	802670	7.50000	7.7167
67	2,4,5-Trichlorophenol	196	5.089	5.089	(0.904)	853940	7.50000	7.7444
211	1,1'-Biphenyl	154	5.201	5.201	(0.924)	3173118	7.50000	7.1897
68	1,2,3,5-Tetrachlorobenzene	216	4.982	4.982	(0.885)	1162588	7.50000	7.3288
70	2-Chloronaphthalene	162	5.227	5.227	(0.929)	2484862	7.50000	7.2744
73	2-Nitroaniline	65	5.286	5.286	(0.939)	748542	7.50000	7.5140
74	1,2,3,4-Tetrachlorobenzene	216	5.195	5.195	(0.923)	1055677	7.50000	7.2933
76	Dimethylphthalate	163	5.398	5.398	(0.959)	2801302	7.50000	7.4910
78	2,6-Dinitrotoluene	165	5.452	5.452	(0.969)	677075	7.50000	7.9636
79	Acenaphthylene	152	5.532	5.532	(0.983)	4105499	7.50000	7.5720
80	1,2-Dinitrobenzene	168	5.500	5.500	(0.977)	343771	7.50000	7.9164
81	3-Nitroaniline	138	5.580	5.580	(0.991)	745701	7.50000	7.7942
82	Acenaphthene	153	5.655	5.655	(1.005)	2433863	7.50000	7.1682
83	2,4-Dinitrophenol	184	5.655	5.655	(1.005)	1015270	15.0000	18.517
85	4-Nitrophenol	109	5.671	5.671	(1.008)	350425	7.50000	7.9553
86	Dibenzofuran	168	5.778	5.778	(1.027)	3487223	7.50000	7.2716
87	2,4-Dinitrotoluene	165	5.746	5.746	(1.021)	876608	7.50000	7.8206
91	2,3,5,6-Tetrachlorophenol	232	5.826	5.826	(1.035)	682586	7.50000	7.8344
93	Diethylphthalate	149	5.906	5.906	(1.049)	2687190	7.50000	7.4808
94	Fluorene	166	6.029	6.029	(1.071)	2856920	7.50000	7.3332
95	4-Chlorophenyl-phenylether	204	6.013	6.013	(1.068)	1294684	7.50000	7.2166
96	4-Nitroaniline	138	6.023	6.023	(1.070)	781029	7.50000	7.8650
98	4,6-Dinitro-2-methylphenol	198	6.045	6.045	(0.901)	543900	7.50000	8.7510
99	N-Nitrosodiphenylamine	169	6.093	6.093	(0.908)	2008467	7.50000	7.6855
100	1,2-Diphenylhydrazine	77	6.125	6.125	(0.912)	2929336	7.50000	7.4545
106	4-Bromophenyl-phenylether	248	6.371	6.371	(0.949)	702205	7.50000	7.4959
107	Hexachlorobenzene	284	6.429	6.429	(0.958)	680007	7.50000	7.4093
212	Atrazine	200	6.462	6.462	(0.963)	468828	7.50000	7.5395
111	Pentachlorophenol	266	6.563	6.563	(0.978)	1002918	15.0000	16.879
115	Phenanthrene	178	6.734	6.734	(1.003)	4017802	7.50000	7.4160
116	Anthracene	178	6.771	6.771	(1.009)	4097289	7.50000	7.6292
119	Carbazole	167	6.873	6.873	(1.024)	3882458	7.50000	7.5398
120	Di-n-Butylphthalate	149	7.081	7.081	(1.055)	4389932	7.50000	7.9405
123	Fluoranthene	202	7.599	7.599	(1.132)	4126409	7.50000	7.6621
124	Benzidine	184	7.669	7.669	(0.885)	2419201	7.50000	8.8988
125	Pyrene	202	7.770	7.770	(0.896)	4375711	7.50000	7.4414
131	Butylbenzylphthalate	149	8.187	8.187	(0.945)	1874967	7.50000	7.7956
133	3,3'-Dimethoxybenzidine	244	8.577	8.577	(0.990)	869017	7.50000	9.2838
135	3,3'-Dichlorobenzidine	252	8.614	8.614	(0.994)	1522126	7.50000	7.8784
136	Benzo(a)Anthracene	228	8.657	8.657	(0.999)	4163435	7.50000	7.2931
137	Chrysene	228	8.689	8.689	(1.002)	3848934	7.50000	7.0202

138	4,4'-Methylene bis(o-chloroan	231	8.609	8.609 (0.993)	721850	7.50000	7.8782
139	bis(2-ethylhexyl)Phthalate	149	8.598	8.598 (0.992)	2621644	7.50000	7.7059

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	140 Di-n-octylphthalate	149	9.138	9.138	(0.907)	4241824	7.50000	8.1695
	141 Benzo(b)fluoranthene	252	9.635	9.635	(0.957)	3737501	7.50000	7.7440
	142 Benzo(k)fluoranthene	252	9.667	9.667	(0.960)	4108982	7.50000	7.3788
	146 Benzo(a)pyrene	252	10.014	10.014	(0.994)	3597102	7.50000	7.8371
	149 Indeno(1,2,3-cd)pyrene	276	11.617	11.617	(1.153)	3831912	7.50000	7.9947
	150 Dibenz(a,h)anthracene	278	11.633	11.633	(1.155)	3197904	7.50000	8.4770
	151 Benzo(g,h,i)perylene	276	12.092	12.092	(1.200)	3064510	7.50000	7.6954
$	154 Nitrobenzene-d5	82	3.849	3.849	(0.882)	1563333	7.50000	7.4942
$	155 2-Fluorobiphenyl	172	5.126	5.126	(0.911)	2882596	7.50000	7.2743
$	156 Terphenyl-d14	244	7.851	7.851	(0.906)	2579453	7.50000	7.5550
$	157 Phenol-d5	99	3.176	3.176	(0.914)	1810021	7.50000	7.4743
$	158 2-Fluorophenol	112	2.604	2.604	(0.749)	1402678	7.50000	7.6348
$	159 2,4,6-Tribromophenol	330	6.200	6.200	(1.102)	284880	7.50000	7.9437
$	186 2-Chlorophenol-d4	132	3.320	3.320	(0.955)	1391397	7.50000	7.5997
$	187 1,2-Dichlorobenzene-d4	152	3.582	3.582	(1.031)	940162	7.50000	7.2832
M	195 Cresols, total	100				2859745	7.50000	14.929
	101 Diphenylamine	169	6.093	6.093	(0.908)	2008467	7.50000	7.6855

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp10.i
Lab File ID: 1SH0308.D
Lab Smp Id: L7
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 18:08
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	416795	208398	833590	327977	-21.31
2 Naphthalene-d8	1543473	771737	3086946	1238594	-19.75
3 Acenaphthene-d10	822161	411081	1644322	671978	-18.27
4 Phenanthrene-d10	1272646	636323	2545292	1034873	-18.68
5 Chrysene-d12	1413415	706708	2826830	1175176	-16.86
6 Perylene-d12	1128081	564041	2256162	936555	-16.98

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	-0.00
2 Naphthalene-d8	4.36	3.86	4.86	4.36	-0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	-0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	-0.00
5 Chrysene-d12	8.67	8.17	9.17	8.67	-0.06
6 Perylene-d12	10.08	9.58	10.58	10.07	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SH0308.D

Page 1

Date : 08-MAR-2010 17:29

Client ID:

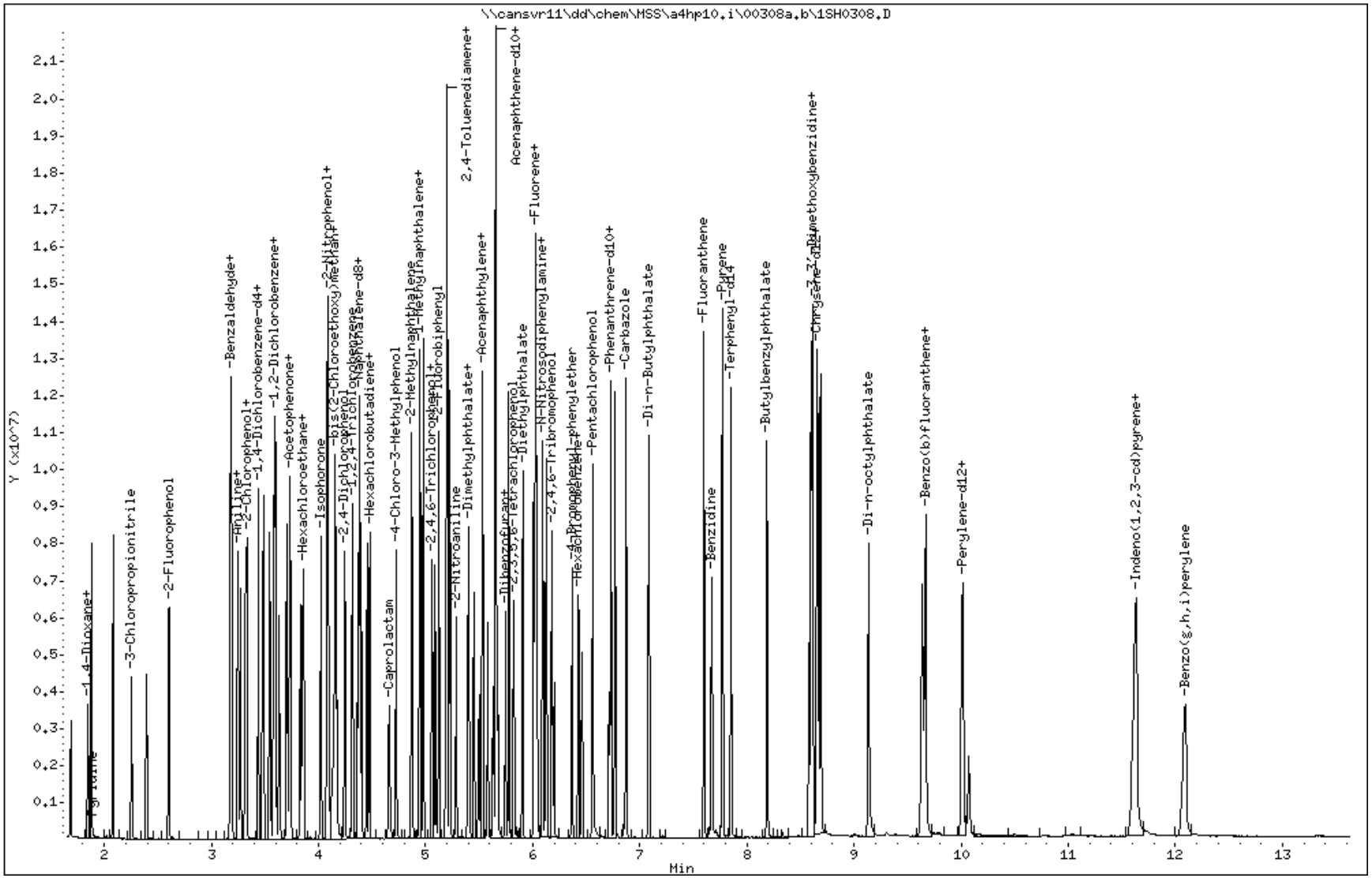
Instrument: a4hp10.i

Sample Info: L7,00308a.b,8270C-625,1-827042d.sub,1,,7

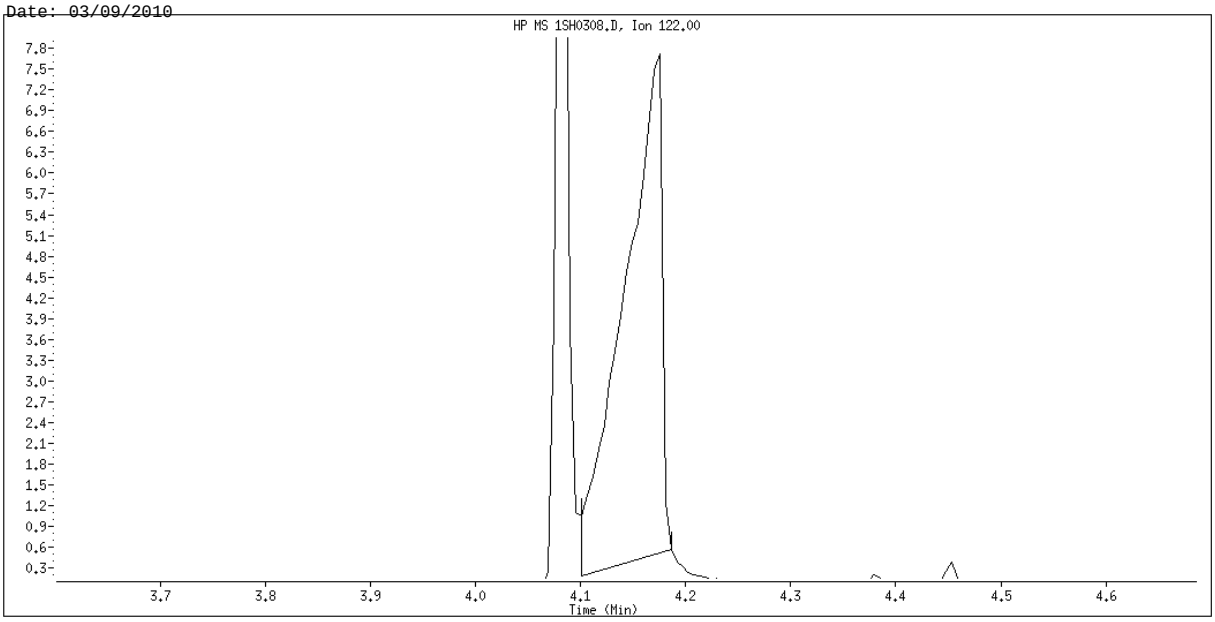
Operator: 001710

Column phase: db5.625

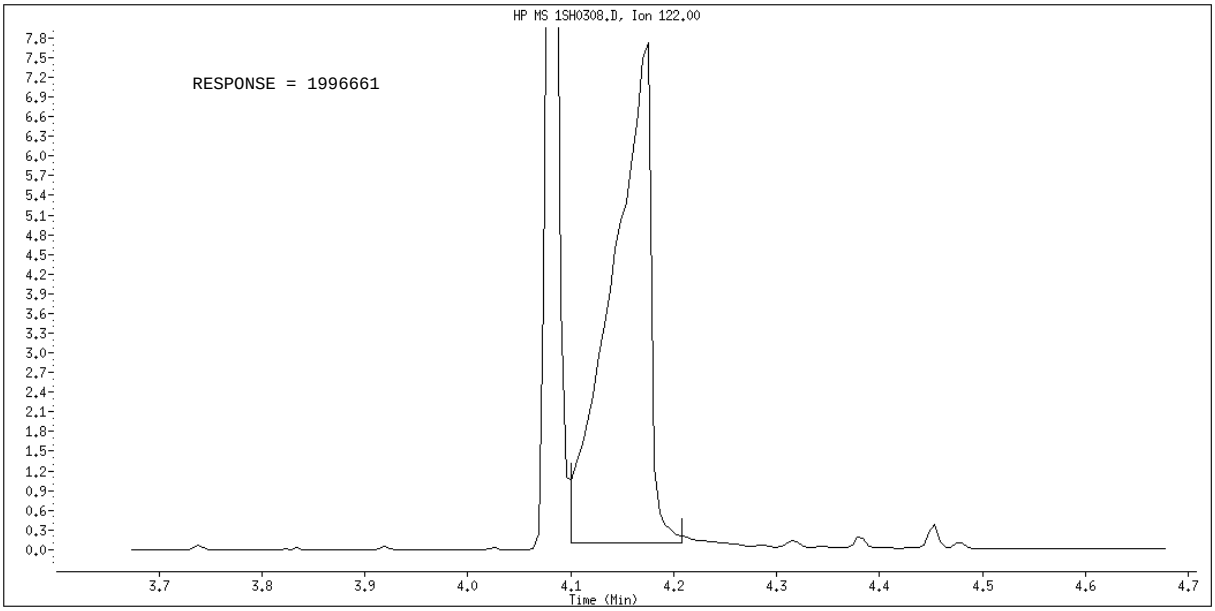
Column diameter: 0.32



Data File Name: 1SH0308.D
Inj. Date and Time: 08-MAR-2010 17:29
Instrument ID: a4hp10.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHH0308.D
Lab Smp Id: L8
Inj Date : 08-MAR-2010 17:09
Operator : 001710   Inst ID: a4hp10.i
Smp Info : L8,00308a.b,8270C-625,1-827042d.sub,1,,8
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 08:24 GruberJ   Quant Type: ISTD
Cal Date : 08-MAR-2010 17:09   Cal File: 1SHH0308.D
Als bottle: 8   Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.475	3.475	(1.000)	323648	2.00000	
*	2 Naphthalene-d8	136	4.367	4.367	(1.000)	1217210	2.00000	
*	3 Acenaphthene-d10	164	5.628	5.628	(1.000)	651560	2.00000	
*	4 Phenanthrene-d10	188	6.712	6.712	(1.000)	992826	2.00000	
*	5 Chrysene-d12	240	8.662	8.662	(1.000)	1116649	2.00000	
*	6 Perylene-d12	264	10.067	10.067	(1.000)	887313	2.00000	
	198 1,4-Dioxane	88	1.685	1.685	(0.485)	922021	10.0000	10.238
	9 Pyridine	79	1.878	1.878	(0.540)	2493975	10.0000	10.985
	10 N-Nitrosodimethylamine	74	1.846	1.846	(0.531)	1331269	10.0000	10.495
	12 3-Chloropropionitrile	54	2.257	2.257	(0.650)	1300446	10.0000	10.263
	209 Benzaldehyde	77	3.187	3.187	(0.917)	1060730	10.0000	8.6871
	21 Aniline	93	3.251	3.251	(0.935)	3347490	10.0000	10.729
	22 Phenol	94	3.192	3.192	(0.919)	2724434	10.0000	10.630
	23 bis(2-Chloroethyl)ether	93	3.272	3.272	(0.942)	2203004	10.0000	10.795
	24 2-Chlorophenol	128	3.331	3.331	(0.959)	2145104	10.0000	10.765
	26 1,3-Dichlorobenzene	146	3.438	3.438	(0.989)	2228227	10.0000	10.559
	27 1,4-Dichlorobenzene	146	3.486	3.486	(1.003)	2183579	10.0000	10.443
	28 1,2-Dichlorobenzene	146	3.593	3.593	(1.034)	2070838	10.0000	10.421
	29 Benzyl Alcohol	108	3.550	3.550	(1.022)	1429088	10.0000	11.006
	30 2-Methylphenol	108	3.603	3.603	(1.037)	1993564	10.0000	10.809
	31 bis(2-Chloroisopropyl)ether	45	3.635	3.635	(1.046)	2862713	10.0000	10.254
	37 Acetophenone	105	3.742	3.742	(1.077)	2772941	10.0000	10.517
	32 N-Nitroso-di-n-propylamine	70	3.731	3.731	(1.074)	1474417	10.0000	10.588
	192 4-Methylphenol	108	3.710	3.710	(1.068)	2083363	10.0000	10.758
	34 Hexachloroethane	117	3.828	3.828	(1.101)	783444	10.0000	10.557
	35 Nitrobenzene	77	3.865	3.865	(0.885)	2161788	10.0000	10.495
	41 Isophorone	82	4.025	4.025	(0.922)	4134772	10.0000	10.794
	42 2-Nitrophenol	139	4.084	4.084	(0.935)	1096351	10.0000	10.974
	43 2,4-Dimethylphenol	107	4.084	4.084	(0.935)	1953378	10.0000	10.662
	44 bis(2-Chloroethoxy)methane	93	4.154	4.154	(0.951)	2330511	10.0000	10.648
	46 2,4-Toluenediamene	121	5.185	5.185	(1.187)	622576	10.0000	11.153

47	1,3,5-Trichlorobenzene	180	4.095	4.095 (0.938)	1765411	10.0000	10.540
48	2,4-Dichlorophenol	162	4.250	4.250 (0.973)	1580057	10.0000	11.042

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49	Benzoic Acid	122	4.186	4.186	(0.958)	2693963	20.0000	27.232(MH)
50	1,2,4-Trichlorobenzene	180	4.319	4.319	(0.989)	1741113	10.0000	10.498
51	Naphthalene	128	4.383	4.383	(1.004)	5786865	10.0000	10.454
52	4-Chloroaniline	127	4.399	4.399	(1.007)	2485388	10.0000	10.628
56	Hexachlorobutadiene	225	4.453	4.453	(1.020)	881402	10.0000	10.505
210	Caprolactam	113	4.672	4.672	(1.070)	655531	10.0000	14.534(H)
57	1,2,3-Trichlorobenzene	180	4.479	4.479	(1.026)	1622699	10.0000	10.471
59	4-Chloro-3-Methylphenol	107	4.725	4.725	(1.082)	1650743	10.0000	11.139
62	2-Methylnaphthalene	142	4.869	4.869	(1.115)	3185930	10.0000	10.431
63	1-Methylnaphthalene	142	4.944	4.944	(1.132)	3645203	10.0000	10.516
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	1016052	10.0000	11.569
66	2,4,6-Trichlorophenol	196	5.062	5.062	(0.899)	1112934	10.0000	11.035
67	2,4,5-Trichlorophenol	196	5.094	5.094	(0.905)	1172098	10.0000	10.963
211	1,1'-Biphenyl	154	5.201	5.201	(0.924)	4416395	10.0000	10.320
68	1,2,3,5-Tetrachlorobenzene	216	4.982	4.982	(0.885)	1614663	10.0000	10.498
70	2-Chloronaphthalene	162	5.227	5.227	(0.929)	3431745	10.0000	10.361
73	2-Nitroaniline	65	5.286	5.286	(0.939)	1042704	10.0000	10.795
74	1,2,3,4-Tetrachlorobenzene	216	5.201	5.201	(0.924)	1467736	10.0000	10.458
76	Dimethylphthalate	163	5.404	5.404	(0.960)	3896568	10.0000	10.746
78	2,6-Dinitrotoluene	165	5.457	5.457	(0.970)	946773	10.0000	11.485
79	Acenaphthylene	152	5.532	5.532	(0.983)	5643677	10.0000	10.735
80	1,2-Dinitrobenzene	168	5.505	5.505	(0.978)	492964	10.0000	11.708
81	3-Nitroaniline	138	5.585	5.585	(0.992)	1046156	10.0000	11.277
82	Acenaphthene	153	5.655	5.655	(1.005)	3293395	10.0000	10.004
83	2,4-Dinitrophenol	184	5.660	5.660	(1.006)	1396454	20.0000	26.267
85	4-Nitrophenol	109	5.676	5.676	(1.009)	490566	10.0000	11.486
86	Dibenzofuran	168	5.778	5.778	(1.027)	4883718	10.0000	10.503
87	2,4-Dinitrotoluene	165	5.751	5.751	(1.022)	1227559	10.0000	11.295
91	2,3,5,6-Tetrachlorophenol	232	5.826	5.826	(1.035)	944831	10.0000	11.184
93	Diethylphthalate	149	5.906	5.906	(1.049)	3731234	10.0000	10.713
94	Fluorene	166	6.029	6.029	(1.071)	3944440	10.0000	10.442
95	4-Chlorophenyl-phenylether	204	6.013	6.013	(1.068)	1832901	10.0000	10.537
96	4-Nitroaniline	138	6.029	6.029	(1.071)	1065098	10.0000	11.062
98	4,6-Dinitro-2-methylphenol	198	6.045	6.045	(0.901)	763924	10.0000	12.812
99	N-Nitrosodiphenylamine	169	6.093	6.093	(0.908)	2889932	10.0000	11.527
100	1,2-Diphenylhydrazine	77	6.130	6.130	(0.913)	4050167	10.0000	10.743
106	4-Bromophenyl-phenylether	248	6.371	6.371	(0.949)	979639	10.0000	10.900
107	Hexachlorobenzene	284	6.429	6.429	(0.958)	960540	10.0000	10.909
212	Atrazine	200	6.461	6.461	(0.963)	626803	10.0000	10.507
111	Pentachlorophenol	266	6.563	6.563	(0.978)	1417499	20.0000	24.866
115	Phenanthrene	178	6.734	6.734	(1.003)	5514181	10.0000	10.609
116	Anthracene	178	6.771	6.771	(1.009)	5509250	10.0000	10.693
119	Carbazole	167	6.873	6.873	(1.024)	5378879	10.0000	10.888
120	Di-n-Butylphthalate	149	7.086	7.086	(1.056)	5921928	10.0000	11.165
123	Fluoranthene	202	7.599	7.599	(1.132)	5678101	10.0000	10.990
124	Benzidine	184	7.674	7.674	(0.886)	3345230	10.0000	12.950
125	Pyrene	202	7.770	7.770	(0.897)	6120969	10.0000	10.955
131	Butylbenzylphthalate	149	8.187	8.187	(0.945)	2588018	10.0000	11.324
133	3,3'-Dimethoxybenzidine	244	8.577	8.577	(0.990)	1170864	10.0000	13.164
135	3,3'-Dichlorobenzidine	252	8.614	8.614	(0.994)	2113045	10.0000	11.510
136	Benzo(a)Anthracene	228	8.657	8.657	(0.999)	5918952	10.0000	10.912
137	Chrysene	228	8.689	8.689	(1.003)	5366034	10.0000	10.300

138	4,4'-Methylene bis(o-chloroan	231	8.609	8.609 (0.994)	1001411	10.0000	11.502
139	bis(2-ethylhexyl)Phthalate	149	8.598	8.598 (0.993)	3651680	10.0000	11.296

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.132	9.132	(0.907)	5988545	10.0000	12.174
141 Benzo(b)fluoranthene	252	9.640	9.640	(0.958)	5195713	10.0000	11.363
142 Benzo(k)fluoranthene	252	9.672	9.672	(0.961)	5900329	10.0000	11.184
146 Benzo(a)pyrene	252	10.014	10.014	(0.995)	5097288	10.0000	11.722
149 Indeno(1,2,3-cd)pyrene	276	11.622	11.622	(1.154)	5449803	10.0000	12.001
150 Dibenz(a,h)anthracene	278	11.643	11.643	(1.157)	4632379	10.0000	12.961
151 Benzo(g,h,i)perylene	276	12.103	12.103	(1.202)	4435123	10.0000	11.755
$ 154 Nitrobenzene-d5	82	3.854	3.854	(0.883)	2184824	10.0000	10.658
$ 155 2-Fluorobiphenyl	172	5.126	5.126	(0.911)	4024922	10.0000	10.475
$ 156 Terphenyl-d14	244	7.850	7.850	(0.906)	3617458	10.0000	11.150
$ 157 Phenol-d5	99	3.181	3.181	(0.915)	2588941	10.0000	10.834
$ 158 2-Fluorophenol	112	2.604	2.604	(0.749)	1954542	10.0000	10.781
$ 159 2,4,6-Tribromophenol	330	6.200	6.200	(1.102)	404157	10.0000	11.623
$ 186 2-Chlorophenol-d4	132	3.320	3.320	(0.955)	1953886	10.0000	10.815
$ 187 1,2-Dichlorobenzene-d4	152	3.582	3.582	(1.031)	1348590	10.0000	10.587
M 195 Cresols, total	100				4076927	10.0000	21.567
101 Diphenylamine	169	6.093	6.093	(0.908)	2889932	10.0000	11.527

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp10.i
Lab File ID: 1SHH0308.D
Lab Smp Id: L8
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 18:08
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	416795	208398	833590	323648	-22.35
2 Naphthalene-d8	1543473	771737	3086946	1217210	-21.14
3 Acenaphthene-d10	822161	411081	1644322	651560	-20.75
4 Phenanthrene-d10	1272646	636323	2545292	992826	-21.99
5 Chrysene-d12	1413415	706708	2826830	1116649	-21.00
6 Perylene-d12	1128081	564041	2256162	887313	-21.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	-0.01
2 Naphthalene-d8	4.36	3.86	4.86	4.37	0.12
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	-0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	-0.00
5 Chrysene-d12	8.67	8.17	9.17	8.66	-0.13
6 Perylene-d12	10.08	9.58	10.58	10.07	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHH0308.D

Page 1

Date : 08-MAR-2010 17:09

Client ID:

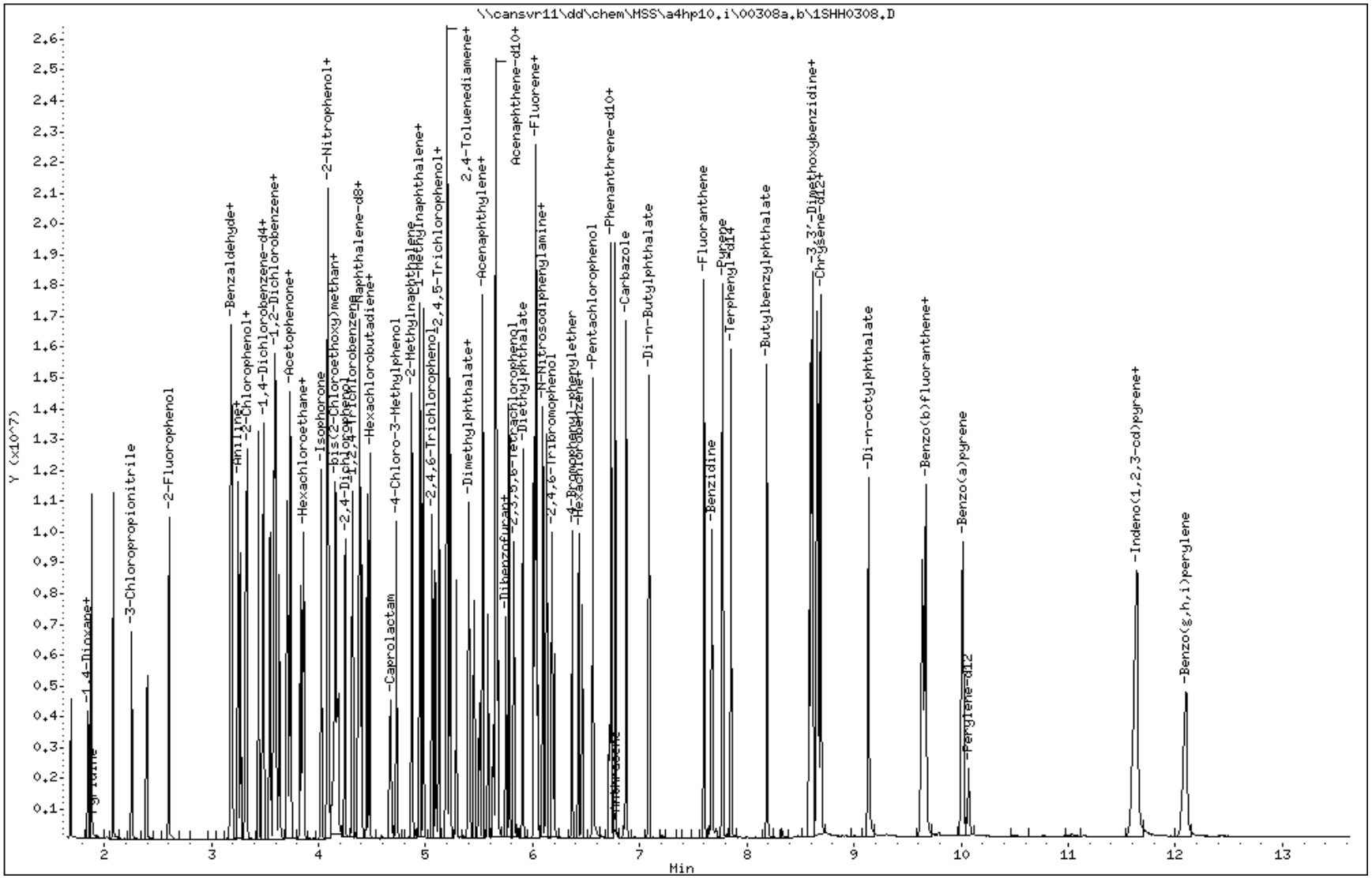
Instrument: a4hp10.i

Sample Info: L8,00308a.b,8270C-625,1-827042d.sub,1,,8

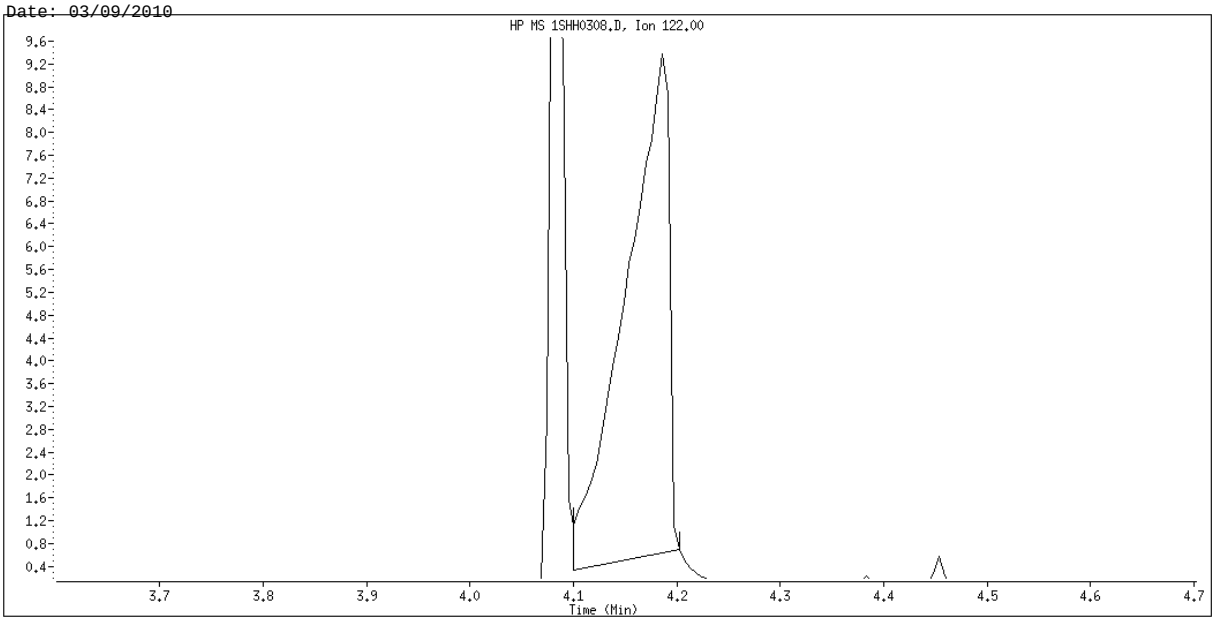
Operator: 001710

Column phase: db5.625

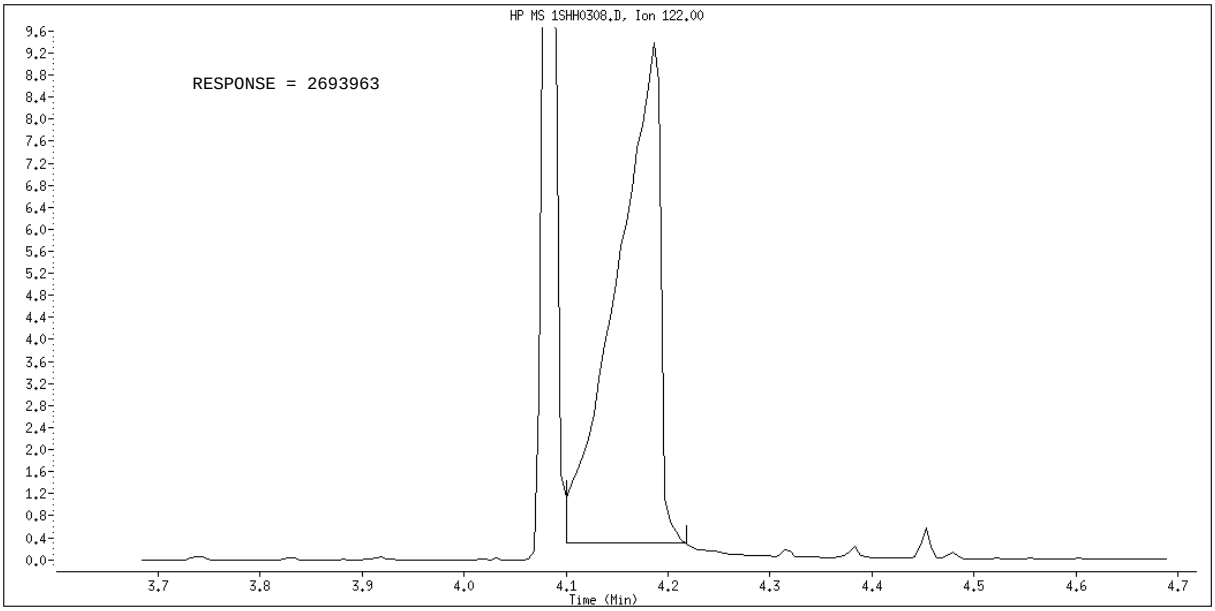
Column diameter: 0.32



Data File Name: 1SHH0308.D
Inj. Date and Time: 08-MAR-2010 17:09
Instrument ID: a4hp10.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHHH0308.D
Lab Smp Id: L9
Inj Date : 08-MAR-2010 16:49
Operator : 001710   Inst ID: a4hp10.i
Smp Info : L9,00308a.b,8270C-625,1-827042d.sub,1,,9
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 08:24 GruberJ   Quant Type: ISTD
Cal Date : 08-MAR-2010 16:49   Cal File: 1SHHH0308.D
Als bottle: 7   Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
* 1	1,4-Dichlorobenzene-d4	152	3.475	3.475	(1.000)	332840	2.00000	
* 2	Naphthalene-d8	136	4.367	4.367	(1.000)	1249693	2.00000	
* 3	Acenaphthene-d10	164	5.633	5.633	(1.000)	661151	2.00000	
* 4	Phenanthrene-d10	188	6.713	6.713	(1.000)	991711	2.00000	
* 5	Chrysene-d12	240	8.673	8.673	(1.000)	1116416	2.00000	
* 6	Perylene-d12	264	10.078	10.078	(1.000)	881741	2.00000	
198	1,4-Dioxane	88	1.686	1.686	(0.485)	1241714	12.5000	13.407
9	Pyridine	79	1.883	1.883	(0.542)	3245733	12.5000	13.902
10	N-Nitrosodimethylamine	74	1.851	1.851	(0.533)	1740768	12.5000	13.344
12	3-Chloropropionitrile	54	2.257	2.257	(0.650)	1735489	12.5000	13.319
209	Benzaldehyde	77	Compound Not Detected.					
21	Aniline	93	3.256	3.256	(0.937)	4447976	12.5000	13.862
22	Phenol	94	3.192	3.192	(0.919)	3512382	12.5000	13.326
23	bis(2-Chloroethyl)ether	93	3.278	3.278	(0.943)	2724693	12.5000	12.983
24	2-Chlorophenol	128	3.331	3.331	(0.959)	2734099	12.5000	13.342
26	1,3-Dichlorobenzene	146	3.438	3.438	(0.989)	2814510	12.5000	12.969
27	1,4-Dichlorobenzene	146	3.486	3.486	(1.003)	2766277	12.5000	12.864
28	1,2-Dichlorobenzene	146	3.593	3.593	(1.034)	2592402	12.5000	12.685
29	Benzyl Alcohol	108	3.550	3.550	(1.022)	1822587	12.5000	13.649
30	2-Methylphenol	108	3.603	3.603	(1.037)	2486185	12.5000	13.107
31	bis(2-Chloroisopropyl)ether	45	3.635	3.635	(1.046)	3564584	12.5000	12.416
37	Acetophenone	105	3.742	3.742	(1.077)	3479833	12.5000	12.834
32	N-Nitroso-di-n-propylamine	70	3.737	3.737	(1.075)	1852932	12.5000	12.938
192	4-Methylphenol	108	3.710	3.710	(1.068)	2662031	12.5000	13.367
34	Hexachloroethane	117	3.833	3.833	(1.103)	998032	12.5000	13.077
35	Nitrobenzene	77	3.871	3.871	(0.886)	2790577	12.5000	13.195
41	Isophorone	82	4.031	4.031	(0.923)	5246533	12.5000	13.340
42	2-Nitrophenol	139	4.090	4.090	(0.936)	1353672	12.5000	13.197
43	2,4-Dimethylphenol	107	4.084	4.084	(0.935)	2429639	12.5000	12.917
44	bis(2-Chloroethoxy)methane	93	4.159	4.159	(0.952)	2934927	12.5000	13.062
46	2,4-Toluenediamene	121	5.185	5.185	(1.187)	556998	12.5000	9.7186

47	1,3,5-Trichlorobenzene	180	4.095	4.095 (0.938)	2157795	12.5000	12.548
48	2,4-Dichlorophenol	162	4.250	4.250 (0.973)	2009010	12.5000	13.674

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
49	Benzoic Acid	122	4.202	4.202	(0.962)	3815329	25.0000	35.064(MH)
50	1,2,4-Trichlorobenzene	180	4.319	4.319	(0.989)	2188901	12.5000	12.855
51	Naphthalene	128	4.383	4.383	(1.004)	6314889	12.5000	11.112
52	4-Chloroaniline	127	4.405	4.405	(1.009)	3256633	12.5000	13.564
56	Hexachlorobutadiene	225	4.453	4.453	(1.020)	1129099	12.5000	13.108
210	Caprolactam	113	4.683	4.683	(1.072)	820919	12.5000	15.060(H)
57	1,2,3-Trichlorobenzene	180	4.480	4.480	(1.026)	2045037	12.5000	12.854
59	4-Chloro-3-Methylphenol	107	4.731	4.731	(1.083)	2087904	12.5000	13.723
62	2-Methylnaphthalene	142	4.875	4.875	(1.116)	4053993	12.5000	12.928
63	1-Methylnaphthalene	142	4.950	4.950	(1.133)	4615244	12.5000	12.969
64	Hexachlorocyclopentadiene	237	4.982	4.982	(0.884)	1233590	12.5000	13.843
66	2,4,6-Trichlorophenol	196	5.062	5.062	(0.899)	1396589	12.5000	13.646
67	2,4,5-Trichlorophenol	196	5.094	5.094	(0.904)	1477779	12.5000	13.622
211	1,1'-Biphenyl	154	5.206	5.206	(0.924)	5343649	12.5000	12.306
68	1,2,3,5-Tetrachlorobenzene	216	4.982	4.982	(0.884)	2014862	12.5000	12.909
70	2-Chloronaphthalene	162	5.233	5.233	(0.929)	4330628	12.5000	12.885
73	2-Nitroaniline	65	5.286	5.286	(0.938)	1323645	12.5000	13.504
74	1,2,3,4-Tetrachlorobenzene	216	5.201	5.201	(0.923)	1819491	12.5000	12.776
76	Dimethylphthalate	163	5.404	5.404	(0.959)	4906750	12.5000	13.336
78	2,6-Dinitrotoluene	165	5.457	5.457	(0.969)	1181942	12.5000	14.129
79	Acenaphthylene	152	5.532	5.532	(0.982)	6855554	12.5000	12.851
80	1,2-Dinitrobenzene	168	5.505	5.505	(0.977)	604568	12.5000	14.150
81	3-Nitroaniline	138	5.585	5.585	(0.991)	1298529	12.5000	13.795
82	Acenaphthene	153	5.660	5.660	(1.005)	4040699	12.5000	12.096
83	2,4-Dinitrophenol	184	5.660	5.660	(1.005)	1766303	25.0000	32.742
85	4-Nitrophenol	109	5.676	5.676	(1.008)	630555	12.5000	14.549
86	Dibenzofuran	168	5.783	5.783	(1.027)	5851311	12.5000	12.401
87	2,4-Dinitrotoluene	165	5.751	5.751	(1.021)	1525242	12.5000	13.830
91	2,3,5,6-Tetrachlorophenol	232	5.826	5.826	(1.034)	1190818	12.5000	13.891
93	Diethylphthalate	149	5.911	5.911	(1.049)	4565563	12.5000	12.918
94	Fluorene	166	6.029	6.029	(1.070)	4867877	12.5000	12.700
95	4-Chlorophenyl-phenylether	204	6.013	6.013	(1.067)	2283875	12.5000	12.939
96	4-Nitroaniline	138	6.034	6.034	(1.071)	1325593	12.5000	13.567
98	4,6-Dinitro-2-methylphenol	198	6.050	6.050	(0.901)	985121	12.5000	16.540
99	N-Nitrosodiphenylamine	169	6.098	6.098	(0.908)	3660142	12.5000	14.615
100	1,2-Diphenylhydrazine	77	6.130	6.130	(0.913)	5023349	12.5000	13.340
106	4-Bromophenyl-phenylether	248	6.371	6.371	(0.949)	1224142	12.5000	13.636
107	Hexachlorobenzene	284	6.429	6.429	(0.958)	1204946	12.5000	13.700
212	Atrazine	200	6.462	6.462	(0.963)	739487	12.5000	12.410
111	Pentachlorophenol	266	6.563	6.563	(0.978)	1840767	25.0000	32.327
115	Phenanthrene	178	6.734	6.734	(1.003)	6465818	12.5000	12.454
116	Anthracene	178	6.771	6.771	(1.009)	6583330	12.5000	12.792
119	Carbazole	167	6.878	6.878	(1.025)	6669627	12.5000	13.516
120	Di-n-Butylphthalate	149	7.087	7.087	(1.056)	6349756	12.5000	11.985
123	Fluoranthene	202	7.599	7.599	(1.132)	6861941	12.5000	13.296
124	Benzidine	184	7.674	7.674	(0.885)	4003828	12.5000	15.503
125	Pyrene	202	7.776	7.776	(0.897)	7034852	12.5000	12.593
131	Butylbenzylphthalate	149	8.192	8.192	(0.945)	3227735	12.5000	14.126
133	3,3'-Dimethoxybenzidine	244	8.582	8.582	(0.990)	1327523	12.5000	14.928
135	3,3'-Dichlorobenzidine	252	8.620	8.620	(0.994)	2670310	12.5000	14.549
136	Benzo(a)Anthracene	228	8.663	8.663	(0.999)	7327658	12.5000	13.511
137	Chrysene	228	8.695	8.695	(1.002)	6480123	12.5000	12.441

138	4,4'-Methylene bis(o-chloroan	231	8.620	8.620 (0.994)	1272793	12.5000	14.622
139	bis(2-ethylhexyl)Phthalate	149	8.604	8.604 (0.992)	4498786	12.5000	13.919

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.138	9.138	(0.907)	7430406	12.5000	15.200
141 Benzo(b)fluoranthene	252	9.646	9.646	(0.957)	6937166	12.5000	15.267
142 Benzo(k)fluoranthene	252	9.678	9.678	(0.960)	7039389	12.5000	13.427
146 Benzo(a)pyrene	252	10.025	10.025	(0.995)	6372525	12.5000	14.747
149 Indeno(1,2,3-cd)pyrene	276	11.649	11.649	(1.156)	6879558	12.5000	15.246
150 Dibenz(a,h)anthracene	278	11.660	11.660	(1.157)	5832112	12.5000	16.421
151 Benzo(g,h,i)perylene	276	12.119	12.119	(1.202)	5591133	12.5000	14.913
$ 154 Nitrobenzene-d5	82	3.855	3.855	(0.883)	2801303	12.5000	13.309
$ 155 2-Fluorobiphenyl	172	5.126	5.126	(0.910)	5049394	12.5000	12.951
$ 156 Terphenyl-d14	244	7.856	7.856	(0.906)	4524280	12.5000	13.949
$ 157 Phenol-d5	99	3.181	3.181	(0.915)	3325535	12.5000	13.532
$ 158 2-Fluorophenol	112	2.604	2.604	(0.749)	2560329	12.5000	13.732
$ 159 2,4,6-Tribromophenol	330	6.205	6.205	(1.101)	508460	12.5000	14.410
$ 186 2-Chlorophenol-d4	132	3.320	3.320	(0.955)	2500284	12.5000	13.457
$ 187 1,2-Dichlorobenzene-d4	152	3.582	3.582	(1.031)	1693256	12.5000	12.926
M 195 Cresols, total	100				5148216	12.5000	26.474
101 Diphenylamine	169	6.098	6.098	(0.908)	3660142	12.5000	14.615

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp10.i
Lab File ID: 1SHHH0308.D
Lab Smp Id: L9
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 18:08
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	416795	208398	833590	332840	-20.14
2 Naphthalene-d8	1543473	771737	3086946	1249693	-19.03
3 Acenaphthene-d10	822161	411081	1644322	661151	-19.58
4 Phenanthrene-d10	1272646	636323	2545292	991711	-22.07
5 Chrysene-d12	1413415	706708	2826830	1116416	-21.01
6 Perylene-d12	1128081	564041	2256162	881741	-21.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	-0.00
2 Naphthalene-d8	4.36	3.86	4.86	4.37	0.12
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.09
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	-0.00
5 Chrysene-d12	8.67	8.17	9.17	8.67	-0.00
6 Perylene-d12	10.08	9.58	10.58	10.08	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHHH0308.D

Page 1

Date : 08-MAR-2010 16:49

Client ID:

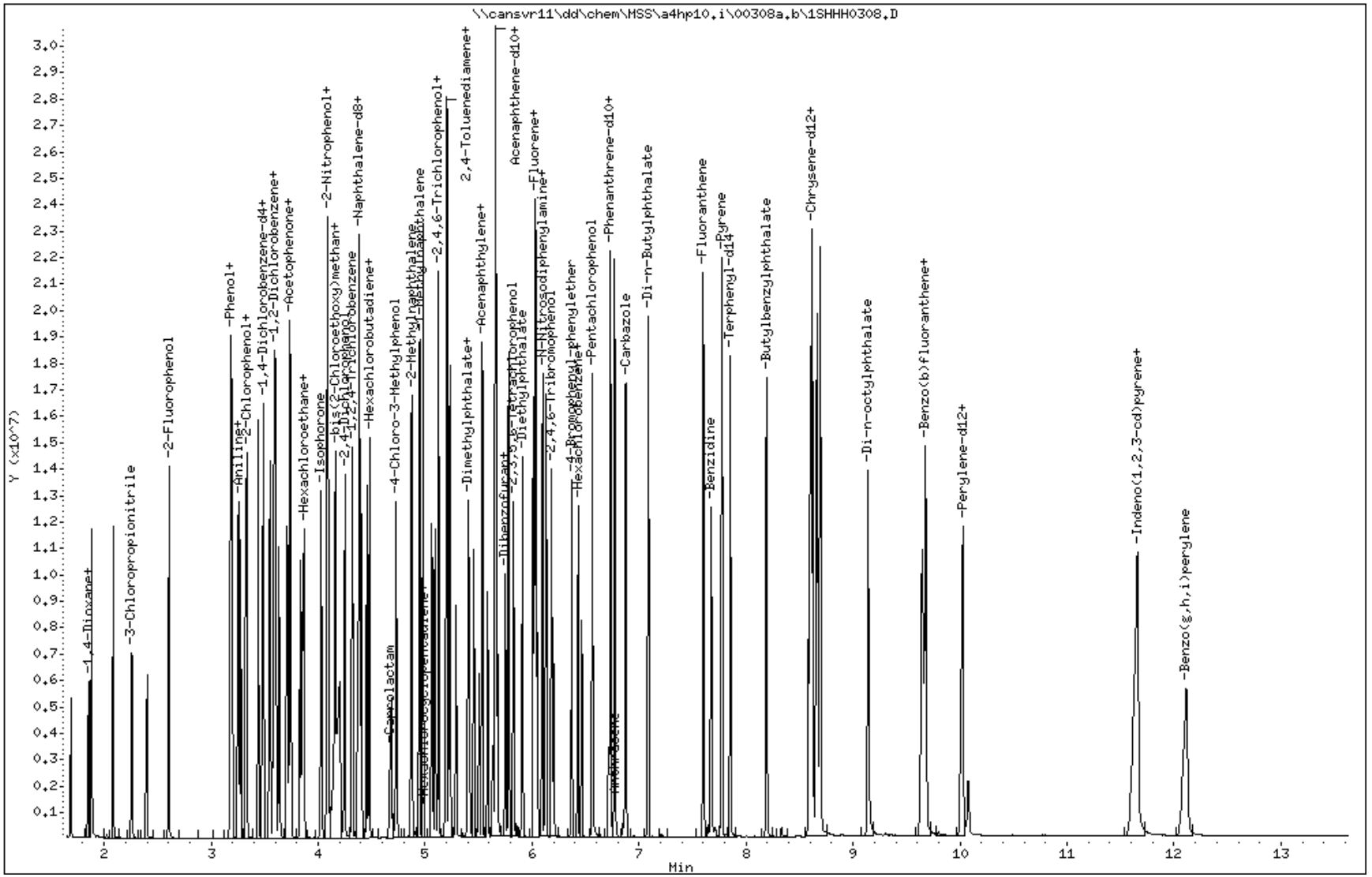
Instrument: a4hp10.i

Sample Info: L9,00308a.b,8270C-625,1-827042d.sub,1,,9

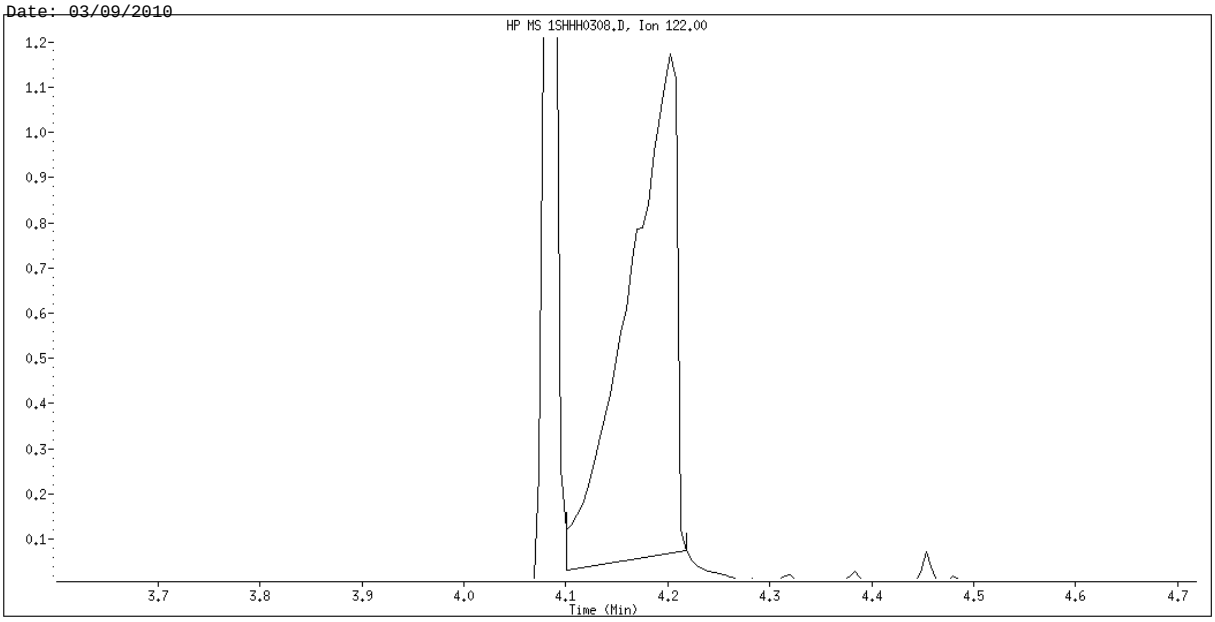
Operator: 001710

Column phase: db5.625

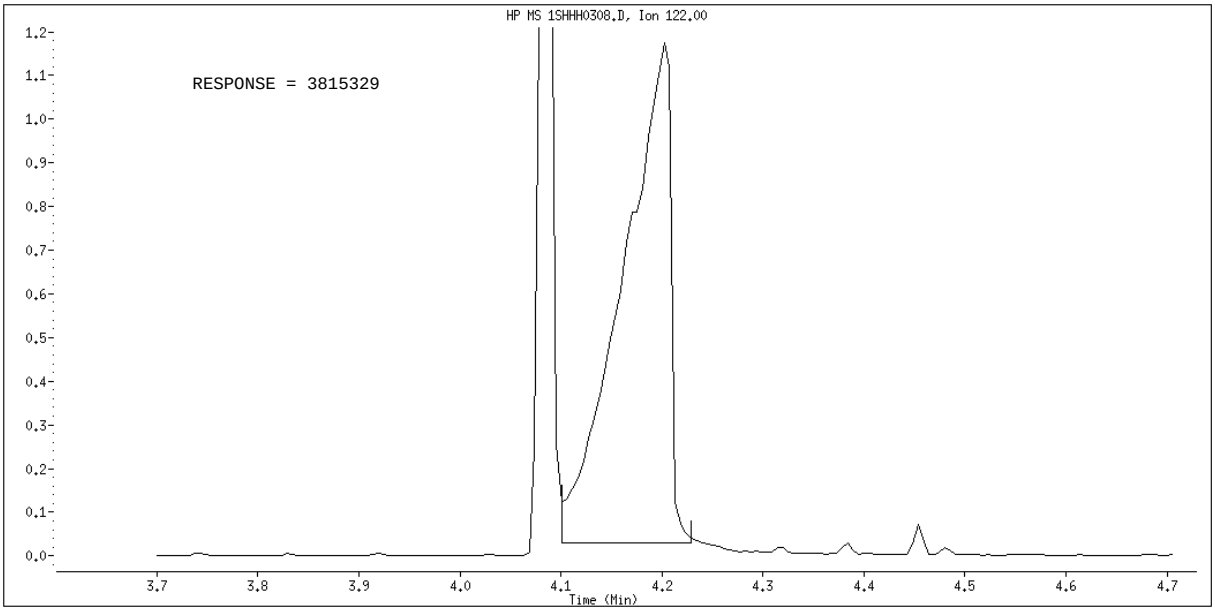
Column diameter: 0.32



Data File Name: 1SHHH0308.D
Inj. Date and Time: 08-MAR-2010 16:49
Instrument ID: a4hp10.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SL0308.D
Lab Smp Id: L2
Inj Date : 08-MAR-2010 16:10
Operator : 001710 Inst ID: a4hp10.i
Smp Info : L2,00308a.b,8270C-625,1-827042d.sub,1,,2
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 08:24 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 16:10 Cal File: 1SL0308.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	347336	2.00000	
* 2	Naphthalene-d8	136	4.362	4.362	(1.000)	1295559	2.00000	
* 3	Acenaphthene-d10	164	5.628	5.628	(1.000)	679998	2.00000	
* 4	Phenanthrene-d10	188	6.713	6.713	(1.000)	1081040	2.00000	
* 5	Chrysene-d12	240	8.657	8.657	(1.000)	1186223	2.00000	
* 6	Perylene-d12	264	10.067	10.067	(1.000)	947818	2.00000	
198	1,4-Dioxane	88	1.691	1.691	(0.487)	24573	0.25000	0.25424
9	Pyridine	79	1.883	1.883	(0.543)	55566	0.25000	0.22806
10	N-Nitrosodimethylamine	74	1.846	1.846	(0.532)	33881	0.25000	0.24887
12	3-Chloropropionitrile	54	2.252	2.252	(0.649)	34474	0.25000	0.25352
209	Benzaldehyde	77	3.181	3.181	(0.917)	38848	0.25000	0.28295
21	Aniline	93	3.240	3.240	(0.934)	75299	0.25000	0.22487
22	Phenol	94	3.181	3.181	(0.917)	66115	0.25000	0.24037
23	bis(2-Chloroethyl)ether	93	3.267	3.267	(0.942)	52506	0.25000	0.23974
24	2-Chlorophenol	128	3.326	3.326	(0.958)	51447	0.25000	0.24057
26	1,3-Dichlorobenzene	146	3.438	3.438	(0.991)	56428	0.25000	0.24916
27	1,4-Dichlorobenzene	146	3.486	3.486	(1.005)	56169	0.25000	0.25030
28	1,2-Dichlorobenzene	146	3.593	3.593	(1.035)	54875	0.25000	0.25731
29	Benzyl Alcohol	108	3.539	3.539	(1.020)	31580	0.25000	0.22663
30	2-Methylphenol	108	3.598	3.598	(1.037)	46192	0.25000	0.23336
31	bis(2-Chloroisopropyl)ether	45	3.630	3.630	(1.046)	76190	0.25000	0.25430
37	Acetophenone	105	3.732	3.732	(1.075)	69820	0.25000	0.24675
32	N-Nitroso-di-n-propylamine	70	3.721	3.721	(1.072)	35469	0.25000	0.23733
192	4-Methylphenol	108	3.700	3.700	(1.066)	48612	0.25000	0.23391
34	Hexachloroethane	117	3.828	3.828	(1.103)	20146	0.25000	0.25295
35	Nitrobenzene	77	3.860	3.860	(0.885)	53521	0.25000	0.24411
41	Isophorone	82	4.015	4.015	(0.920)	96186	0.25000	0.23591
42	2-Nitrophenol	139	4.079	4.079	(0.935)	22342	0.25000	0.21010
43	2,4-Dimethylphenol	107	4.079	4.079	(0.935)	46820	0.25000	0.24010
44	bis(2-Chloroethoxy)methane	93	4.148	4.148	(0.951)	56928	0.25000	0.24438
46	2,4-Toluenediamene	121	5.179	5.179	(1.187)	13877	0.25000	0.23356

47	1,3,5-Trichlorobenzene	180	4.090	4.090 (0.938)	45675	0.25000	0.25620
48	2,4-Dichlorophenol	162	4.244	4.244 (0.973)	32266	0.25000	0.21184
49	Benzoic Acid	122	Compound Not Detected.				

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
50	1,2,4-Trichlorobenzene	180	4.314	4.314	(0.989)	43733	0.25000	0.24774
51	Naphthalene	128	4.378	4.378	(1.004)	149403	0.25000	0.25359
52	4-Chloroaniline	127	4.394	4.394	(1.007)	57470	0.25000	0.23090
56	Hexachlorobutadiene	225	4.453	4.453	(1.021)	22631	0.25000	0.25343
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	4.474	4.474	(1.026)	41885	0.25000	0.25394
59	4-Chloro-3-Methylphenol	107	4.715	4.715	(1.081)	33677	0.25000	0.21351
62	2-Methylnaphthalene	142	4.869	4.869	(1.116)	82580	0.25000	0.25402
63	1-Methylnaphthalene	142	4.944	4.944	(1.133)	91617	0.25000	0.24833
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	18950	0.25000	0.20675
66	2,4,6-Trichlorophenol	196	5.056	5.056	(0.898)	23442	0.25000	0.22271
67	2,4,5-Trichlorophenol	196	5.083	5.083	(0.903)	24467	0.25000	0.21928
211	1,1'-Biphenyl	154	5.195	5.195	(0.923)	116500	0.25000	0.26085
68	1,2,3,5-Tetrachlorobenzene	216	4.976	4.976	(0.884)	41020	0.25000	0.25553
70	2-Chloronaphthalene	162	5.222	5.222	(0.928)	86489	0.25000	0.25021
73	2-Nitroaniline	65	5.281	5.281	(0.938)	22153	0.25000	0.21975
74	1,2,3,4-Tetrachlorobenzene	216	5.195	5.195	(0.923)	36778	0.25000	0.25109
76	Dimethylphthalate	163	5.393	5.393	(0.958)	91139	0.25000	0.24084
78	2,6-Dinitrotoluene	165	5.446	5.446	(0.968)	17129	0.25000	0.19909
79	Acenaphthylene	152	5.527	5.527	(0.982)	131324	0.25000	0.23935
80	1,2-Dinitrobenzene	168	5.489	5.489	(0.975)	8484	0.25000	0.19307
81	3-Nitroaniline	138	5.575	5.575	(0.991)	19985	0.25000	0.20642
82	Acenaphthene	153	5.649	5.649	(1.004)	89716	0.25000	0.26112
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.772	5.772	(1.026)	123884	0.25000	0.25528
87	2,4-Dinitrotoluene	165	5.740	5.740	(1.020)	22409	0.25000	0.19756
91	2,3,5,6-Tetrachlorophenol	232	5.820	5.820	(1.034)	17591	0.25000	0.19952
93	Diethylphthalate	149	5.901	5.901	(1.048)	85869	0.25000	0.23623
94	Fluorene	166	6.023	6.023	(1.070)	97138	0.25000	0.24639
95	4-Chlorophenyl-phenylether	204	6.007	6.007	(1.067)	46000	0.25000	0.25338
96	4-Nitroaniline	138	6.018	6.018	(1.069)	19675	0.25000	0.19579
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	6.088	6.088	(0.907)	65957	0.25000	0.24161
100	1,2-Diphenylhydrazine	77	6.125	6.125	(0.912)	94514	0.25000	0.23024
106	4-Bromophenyl-phenylether	248	6.365	6.365	(0.948)	23856	0.25000	0.24378
107	Hexachlorobenzene	284	6.424	6.424	(0.957)	23850	0.25000	0.24877
212	Atrazine	200	6.456	6.456	(0.962)	14199	0.25000	0.21859
111	Pentachlorophenol	266	6.558	6.558	(0.977)	21113	0.50000	0.34015
115	Phenanthrene	178	6.729	6.729	(1.002)	138904	0.25000	0.24544
116	Anthracene	178	6.766	6.766	(1.008)	132859	0.25000	0.23682
119	Carbazole	167	6.867	6.867	(1.023)	127094	0.25000	0.23628
120	Di-n-Butylphthalate	149	7.081	7.081	(1.055)	131082	0.25000	0.22697
123	Fluoranthene	202	7.594	7.594	(1.131)	134215	0.25000	0.23857
124	Benzidine	184	7.669	7.669	(0.886)	34097	0.25000	0.12425
125	Pyrene	202	7.765	7.765	(0.897)	141969	0.25000	0.23919
131	Butylbenzylphthalate	149	8.187	8.187	(0.946)	48175	0.25000	0.19843
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	8.609	8.609	(0.994)	35545	0.25000	0.18226
136	Benzo(a)Anthracene	228	8.652	8.652	(0.999)	138786	0.25000	0.24085
137	Chrysene	228	8.679	8.679	(1.002)	137080	0.25000	0.24769
138	4,4'-Methylene bis(o-chloroan	231	8.604	8.604	(0.994)	16210	0.25000	0.17527

139	bis(2-ethylhexyl)Phthalate	149	8.598	8.598 (0.993)	71656	0.25000	0.20866
140	Di-n-octylphthalate	149	9.133	9.133 (0.907)	90049	0.25000	0.17137

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
141 Benzo(b)fluoranthene	252	9.624	9.624	(0.956)	106776	0.25000	0.21861
142 Benzo(k)fluoranthene	252	9.656	9.656	(0.959)	131385	0.25000	0.23314
146 Benzo(a)pyrene	252	9.998	9.998	(0.993)	100911	0.25000	0.21724
149 Indeno(1,2,3-cd)pyrene	276	11.590	11.590	(1.151)	100510	0.25000	0.20721
150 Dibenz(a,h)anthracene	278	11.606	11.606	(1.153)	85080	0.25000	0.21127
151 Benzo(g,h,i)perylene	276	12.055	12.055	(1.197)	93818	0.25000	0.22697
$ 154 Nitrobenzene-d5	82	3.844	3.844	(0.881)	52136	0.25000	0.23894
$ 155 2-Fluorobiphenyl	172	5.121	5.121	(0.910)	102268	0.25000	0.25503
$ 156 Terphenyl-d14	244	7.850	7.850	(0.907)	80125	0.25000	0.23249
$ 157 Phenol-d5	99	3.171	3.171	(0.914)	59334	0.25000	0.23136
$ 158 2-Fluorophenol	112	2.599	2.599	(0.749)	46873	0.25000	0.24091
$ 159 2,4,6-Tribromophenol	330	6.194	6.194	(1.101)	8312	0.25000	0.22178
$ 186 2-Chlorophenol-d4	132	3.315	3.315	(0.955)	45497	0.25000	0.23465
$ 187 1,2-Dichlorobenzene-d4	152	3.582	3.582	(1.032)	34005	0.25000	0.24874
M 195 Cresols, total	100				94804	0.25000	0.46728
101 Diphenylamine	169	6.088	6.088	(0.907)	65957	0.25000	0.24161

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp10.i
Lab File ID: 1SL0308.D
Lab Smp Id: L2
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 17:49
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	391286	195643	782572	347336	-11.23
2 Naphthalene-d8	1471864	735932	2943728	1295559	-11.98
3 Acenaphthene-d10	794066	397033	1588132	679998	-14.37
4 Phenanthrene-d10	1245056	622528	2490112	1081040	-13.17
5 Chrysene-d12	1387226	693613	2774452	1186223	-14.49
6 Perylene-d12	1100387	550194	2200774	947818	-13.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.47	-0.15
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	0.00
5 Chrysene-d12	8.66	8.16	9.16	8.66	-0.06
6 Perylene-d12	10.07	9.57	10.57	10.07	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SL0308.D

Page 1

Date : 08-MAR-2010 16:10

Client ID:

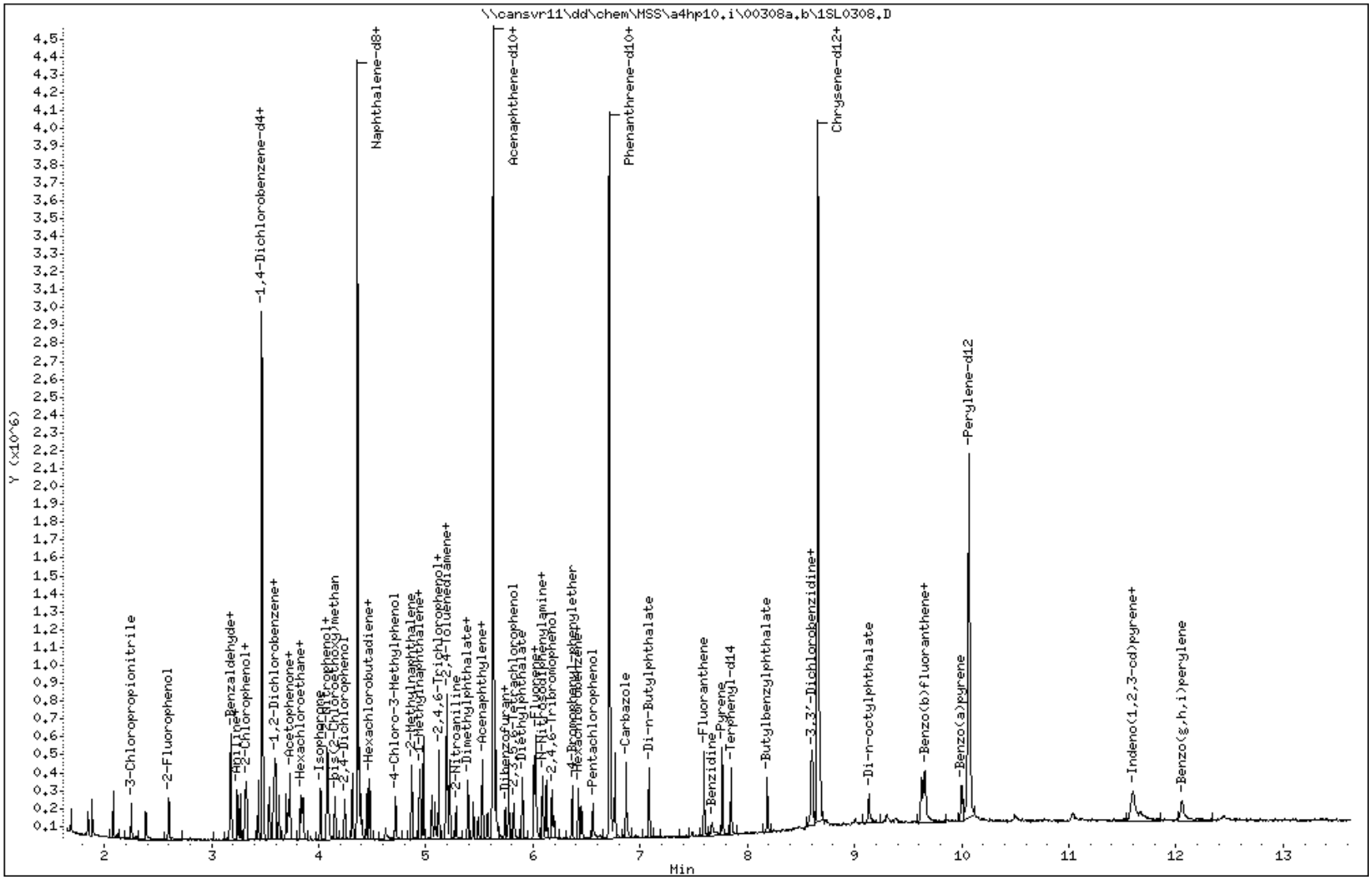
Instrument: a4hp10.i

Sample Info: L2,00308a.b,8270C-625,1-827042d.sub,1,,2

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SLL0308.D
Lab Smp Id: L1
Inj Date : 08-MAR-2010 16:30
Operator : 001710   Inst ID: a4hp10.i
Smp Info : L1,00308a.b,8270C-625,1-pah.sub,1,,1
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 08:24 GruberJ   Quant Type: ISTD
Cal Date : 08-MAR-2010 16:30   Cal File: 1SLL0308.D
Als bottle: 6   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	346610	2.00000	
*	2 Naphthalene-d8	136	4.362	4.362	(1.000)	1326890	2.00000	
*	3 Acenaphthene-d10	164	5.628	5.628	(1.000)	696658	2.00000	
*	4 Phenanthrene-d10	188	6.707	6.707	(1.000)	1091424	2.00000	
*	5 Chrysene-d12	240	8.657	8.657	(1.000)	1199655	2.00000	
*	6 Perylene-d12	264	10.062	10.062	(1.000)	963960	2.00000	
	51 Naphthalene	128	4.378	4.378	(1.004)	31655	0.05000	0.052460
	62 2-Methylnaphthalene	142	4.870	4.870	(1.116)	17376	0.05000	0.052188
	63 1-Methylnaphthalene	142	4.939	4.939	(1.132)	18772	0.05000	0.049681
	70 2-Chloronaphthalene	162	5.222	5.222	(0.928)	19031	0.05000	0.053739
	79 Acenaphthylene	152	5.527	5.527	(0.982)	26156	0.05000	0.046532
	82 Acenaphthene	153	5.650	5.650	(1.004)	18398	0.05000	0.052266
	86 Dibenzofuran	168	5.772	5.772	(1.026)	25374	0.05000	0.051036
	94 Fluorene	166	6.024	6.024	(1.070)	20240	0.05000	0.050112
	115 Phenanthrene	178	6.729	6.729	(1.003)	30997	0.05000	0.054250
	116 Anthracene	178	6.766	6.766	(1.009)	28639	0.05000	0.050563
	123 Fluoranthene	202	7.594	7.594	(1.132)	28060	0.05000	0.049403
	125 Pyrene	202	7.765	7.765	(0.897)	30144	0.05000	0.050217
	136 Benzo(a)Anthracene	228	8.647	8.647	(0.999)	30113	0.05000	0.051672
	137 Chrysene	228	8.679	8.679	(1.002)	31107	0.05000	0.055579
	141 Benzo(b)fluoranthene	252	9.624	9.624	(0.956)	22120	0.05000	0.044529
	142 Benzo(k)fluoranthene	252	9.651	9.651	(0.959)	28439	0.05000	0.049618
	146 Benzo(a)pyrene	252	9.993	9.993	(0.993)	20376	0.05000	0.043132
	149 Indeno(1,2,3-cd)pyrene	276	11.585	11.585	(1.151)	20773	0.05000	0.042108
	150 Dibenz(a,h)anthracene	278	11.595	11.595	(1.152)	16199	0.05000	0.039552(M)
	151 Benzo(g,h,i)perylene	276	12.055	12.055	(1.198)	20848	0.05000	0.049593(M)
$	154 Nitrobenzene-d5	82	3.844	3.844	(0.881)	11135	0.05000	0.049826
$	155 2-Fluorobiphenyl	172	5.121	5.121	(0.910)	20871	0.05000	0.050803
$	156 Terphenyl-d14	244	7.851	7.851	(0.907)	16064	0.05000	0.046090
$	157 Phenol-d5	99	3.171	3.171	(0.914)	12690	0.05000	0.049585
$	158 2-Fluorophenol	112	2.599	2.599	(0.749)	9043	0.05000	0.046575

$ 159 2,4,6-Tribromophenol 330 Compound Not Detected.

QC Flag Legend

M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp10.i
Lab File ID: 1SLL0308.D
Lab Smp Id: L1
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 17:49
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	391286	195643	782572	346610	-11.42
2 Naphthalene-d8	1471864	735932	2943728	1326890	-9.85
3 Acenaphthene-d10	794066	397033	1588132	696658	-12.27
4 Phenanthrene-d10	1245056	622528	2490112	1091424	-12.34
5 Chrysene-d12	1387226	693613	2774452	1199655	-13.52
6 Perylene-d12	1100387	550194	2200774	963960	-12.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.47	-0.15
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	-0.08
5 Chrysene-d12	8.66	8.16	9.16	8.66	-0.06
6 Perylene-d12	10.07	9.57	10.57	10.06	-0.10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SLL0308.D

Page 1

Date : 08-MAR-2010 16:30

Client ID:

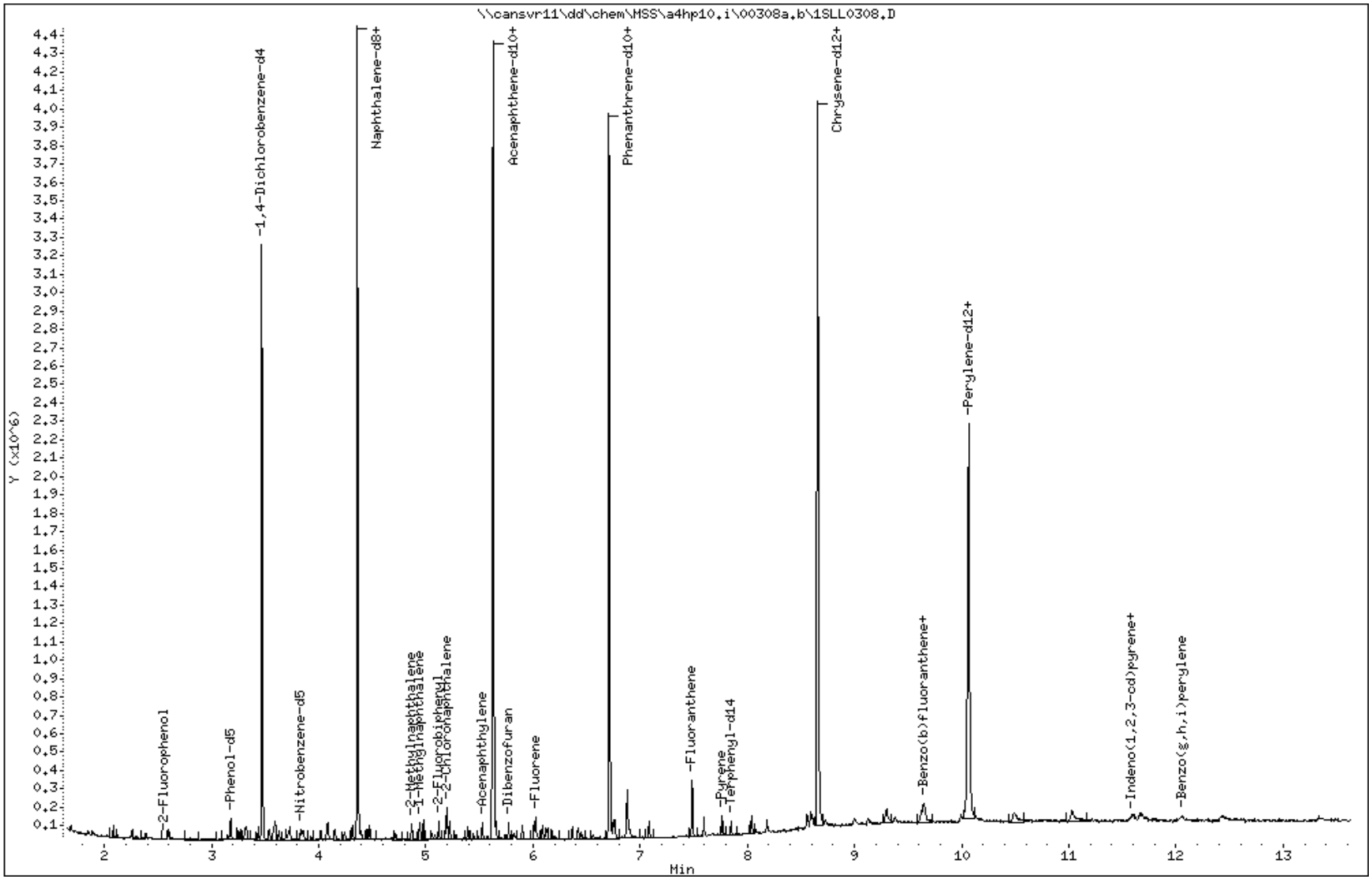
Instrument: a4hp10.i

Sample Info: L1,00308a.b,8270C-625,1-pah.sub,1,,1

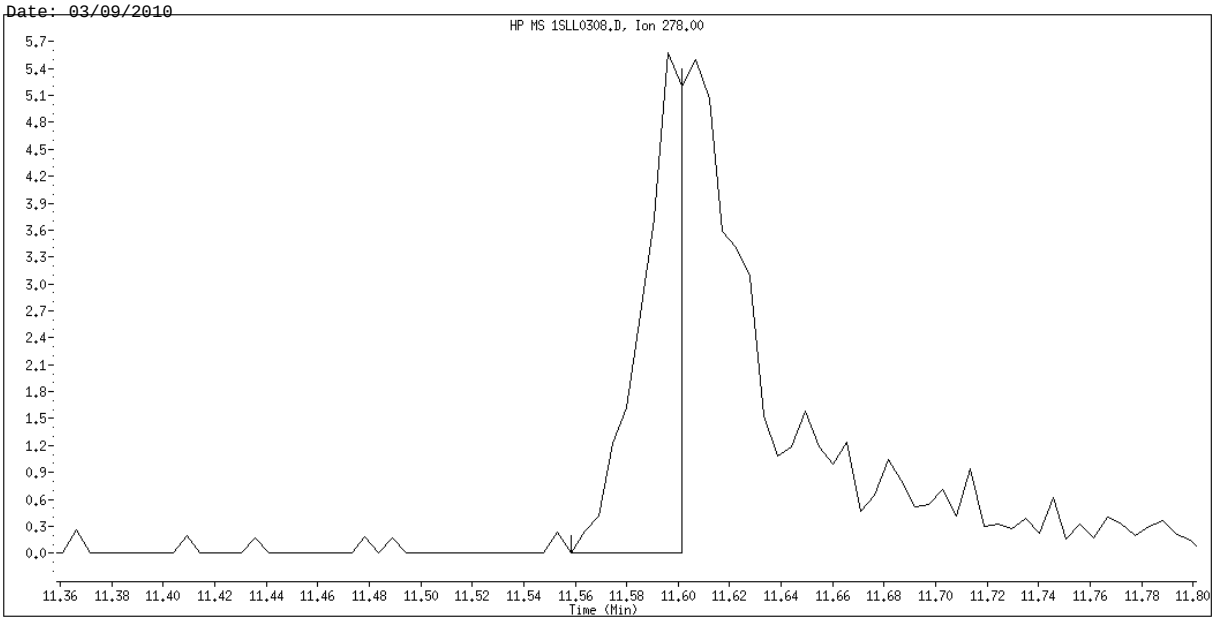
Operator: 001710

Column phase: db5.625

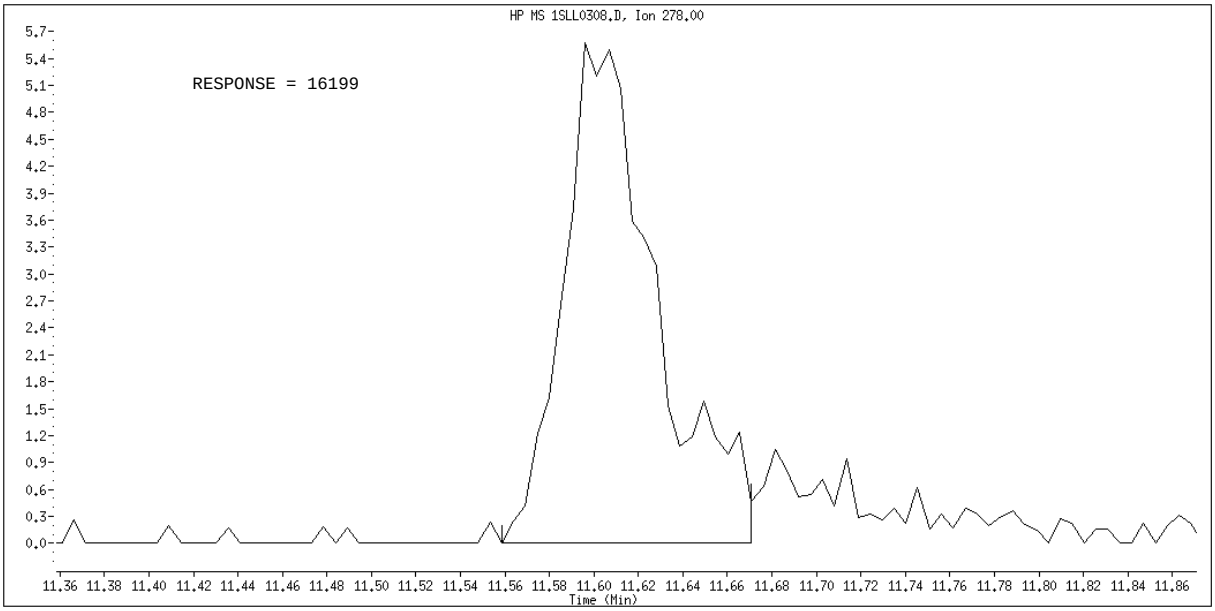
Column diameter: 0.32



Data File Name: 1SLL0308.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID:
Compound Name: Dibenz(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/09/2010



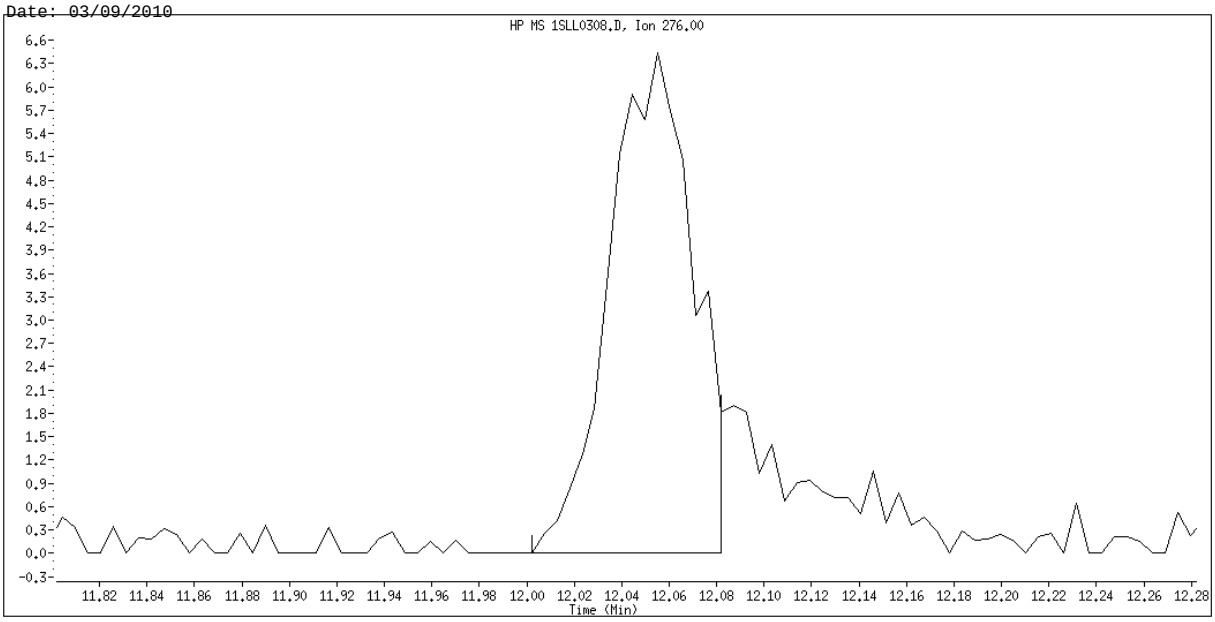
Original Integration



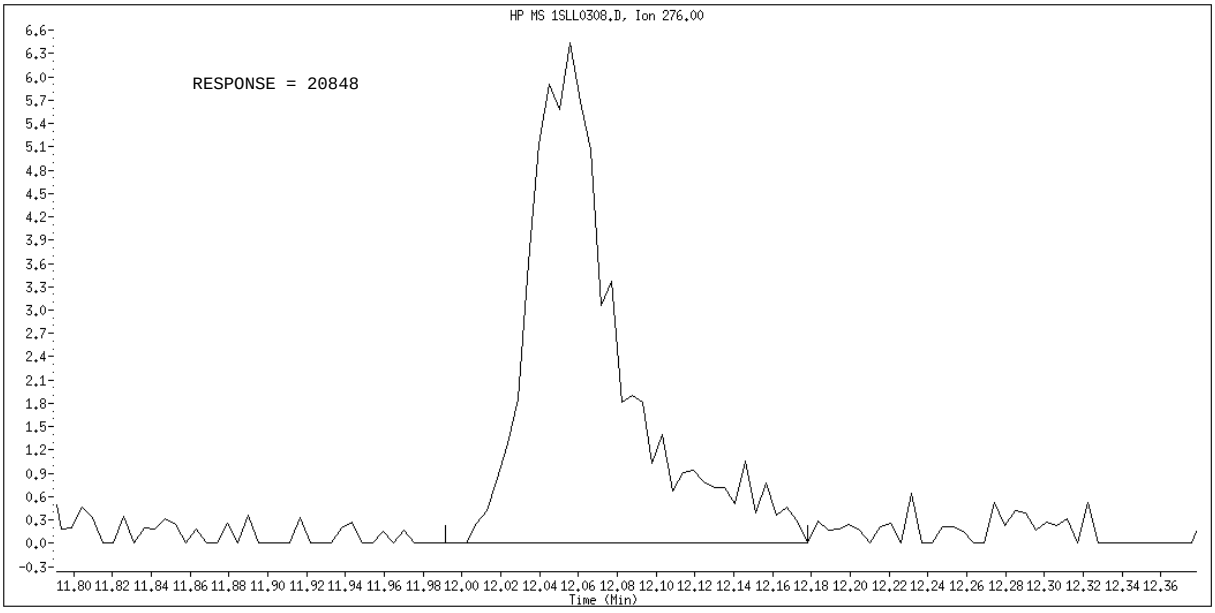
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Data File Name: 1SLL0308.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID:
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SM0308.D
Lab Smp Id: L4
Inj Date : 08-MAR-2010 15:30
Operator : 001710 Inst ID: a4hp10.i
Smp Info : L4,00308a.b,8270C-625,1-827042d.sub,1,,4
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 08:24 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 15:30 Cal File: 1SM0308.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	317839	2.00000	
* 2	Naphthalene-d8	136	4.362	4.362	(1.000)	1220655	2.00000	
* 3	Acenaphthene-d10	164	5.628	5.628	(1.000)	652870	2.00000	
* 4	Phenanthrene-d10	188	6.712	6.712	(1.000)	1028739	2.00000	
* 5	Chrysene-d12	240	8.657	8.657	(1.000)	1123171	2.00000	
* 6	Perylene-d12	264	10.062	10.062	(1.000)	909276	2.00000	
198	1,4-Dioxane	88	1.691	1.691	(0.487)	84618	1.00000	0.96801
9	Pyridine	79	1.883	1.883	(0.543)	214309	1.00000	0.96310
10	N-Nitrosodimethylamine	74	1.846	1.846	(0.532)	122243	1.00000	0.99508
12	3-Chloropropionitrile	54	2.252	2.252	(0.649)	124285	1.00000	0.99836
209	Benzaldehyde	77	3.181	3.181	(0.917)	138104	1.00000	0.99192
21	Aniline	93	3.245	3.245	(0.935)	296462	1.00000	0.98377
22	Phenol	94	3.181	3.181	(0.917)	247212	1.00000	0.98802
23	bis(2-Chloroethyl)ether	93	3.267	3.267	(0.941)	199861	1.00000	1.0071
24	2-Chlorophenol	128	3.325	3.325	(0.958)	185938	1.00000	0.97075
26	1,3-Dichlorobenzene	146	3.438	3.438	(0.991)	203494	1.00000	0.98810
27	1,4-Dichlorobenzene	146	3.486	3.486	(1.005)	202006	1.00000	0.99485
28	1,2-Dichlorobenzene	146	3.593	3.593	(1.035)	189666	1.00000	0.98525
29	Benzyl Alcohol	108	3.539	3.539	(1.020)	123073	1.00000	0.97849
30	2-Methylphenol	108	3.598	3.598	(1.037)	176898	1.00000	0.97376
31	bis(2-Chloroisopropyl)ether	45	3.630	3.630	(1.046)	277376	1.00000	0.99333
37	Acetophenone	105	3.731	3.731	(1.075)	254141	1.00000	0.98608
32	N-Nitroso-di-n-propylamine	70	3.721	3.721	(1.072)	131292	1.00000	0.96751
192	4-Methylphenol	108	3.699	3.699	(1.066)	183329	1.00000	0.97571
34	Hexachloroethane	117	3.828	3.828	(1.103)	70151	1.00000	0.98498
35	Nitrobenzene	77	3.860	3.860	(0.885)	196273	1.00000	0.97018
41	Isophorone	82	4.015	4.015	(0.920)	371309	1.00000	0.97493
42	2-Nitrophenol	139	4.079	4.079	(0.935)	95641	1.00000	0.95249
43	2,4-Dimethylphenol	107	4.079	4.079	(0.935)	174526	1.00000	0.96152
44	bis(2-Chloroethoxy)methane	93	4.148	4.148	(0.951)	211853	1.00000	0.98053
46	2,4-Toluenediamene	121	5.179	5.179	(1.187)	64401	1.00000	1.0990

47	1,3,5-Trichlorobenzene	180	4.089	4.089 (0.938)	162958	1.00000	0.97701
48	2,4-Dichlorophenol	162	4.244	4.244 (0.973)	135571	1.00000	0.95497

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49	Benzoic Acid	122	4.105	4.105	(0.941)	161524	2.00000	1.7097
50	1,2,4-Trichlorobenzene	180	4.314	4.314	(0.989)	160163	1.00000	0.97070
51	Naphthalene	128	4.378	4.378	(1.004)	541573	1.00000	0.97003
52	4-Chloroaniline	127	4.394	4.394	(1.007)	230961	1.00000	0.97766
56	Hexachlorobutadiene	225	4.453	4.453	(1.021)	79808	1.00000	0.96495
210	Caprolactam	113	4.629	4.629	(1.061)	48722	1.00000	0.90378
57	1,2,3-Trichlorobenzene	180	4.474	4.474	(1.026)	150520	1.00000	0.98693
59	4-Chloro-3-Methylphenol	107	4.714	4.714	(1.081)	142617	1.00000	0.96034
62	2-Methylnaphthalene	142	4.869	4.869	(1.116)	289107	1.00000	0.96696
63	1-Methylnaphthalene	142	4.939	4.939	(1.132)	338042	1.00000	0.98002
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	84254	1.00000	0.97427
66	2,4,6-Trichlorophenol	196	5.056	5.056	(0.898)	97208	1.00000	0.97831
67	2,4,5-Trichlorophenol	196	5.083	5.083	(0.903)	105128	1.00000	0.97550
211	1,1'-Biphenyl	154	5.195	5.195	(0.923)	425607	1.00000	0.99761
68	1,2,3,5-Tetrachlorobenzene	216	4.976	4.976	(0.884)	149406	1.00000	0.99594
70	2-Chloronaphthalene	162	5.222	5.222	(0.928)	326420	1.00000	1.0044
73	2-Nitroaniline	65	5.281	5.281	(0.938)	93370	1.00000	0.96436
74	1,2,3,4-Tetrachlorobenzene	216	5.195	5.195	(0.923)	139004	1.00000	0.99902
76	Dimethylphthalate	163	5.393	5.393	(0.958)	352743	1.00000	0.98882
78	2,6-Dinitrotoluene	165	5.446	5.446	(0.968)	75538	1.00000	0.95032
79	Acenaphthylene	152	5.526	5.526	(0.982)	513929	1.00000	0.97616
80	1,2-Dinitrobenzene	168	5.489	5.489	(0.975)	39922	1.00000	0.95925
81	3-Nitroaniline	138	5.575	5.575	(0.991)	86558	1.00000	0.95741
82	Acenaphthene	153	5.649	5.649	(1.004)	327441	1.00000	0.98823
83	2,4-Dinitrophenol	184	5.649	5.649	(1.004)	95411	2.00000	1.7900
85	4-Nitrophenol	109	5.660	5.660	(1.006)	39600	1.00000	0.91996
86	Dibenzofuran	168	5.772	5.772	(1.026)	453281	1.00000	0.98824
87	2,4-Dinitrotoluene	165	5.740	5.740	(1.020)	104308	1.00000	0.97127
91	2,3,5,6-Tetrachlorophenol	232	5.820	5.820	(1.034)	82455	1.00000	0.97819
93	Diethylphthalate	149	5.900	5.900	(1.048)	343110	1.00000	0.99374
94	Fluorene	166	6.023	6.023	(1.070)	373909	1.00000	0.98984
95	4-Chlorophenyl-phenylether	204	6.007	6.007	(1.067)	168159	1.00000	0.98226
96	4-Nitroaniline	138	6.013	6.013	(1.068)	97479	1.00000	0.97834
98	4,6-Dinitro-2-methylphenol	198	6.034	6.034	(0.899)	52665	1.00000	0.89913
99	N-Nitrosodiphenylamine	169	6.087	6.087	(0.907)	234999	1.00000	1.0116
100	1,2-Diphenylhydrazine	77	6.119	6.119	(0.912)	387586	1.00000	0.98920
106	4-Bromophenyl-phenylether	248	6.365	6.365	(0.948)	88575	1.00000	0.99342
107	Hexachlorobenzene	284	6.424	6.424	(0.957)	88282	1.00000	1.0129
212	Atrazine	200	6.451	6.451	(0.961)	62012	1.00000	0.96566
111	Pentachlorophenol	266	6.557	6.557	(0.977)	104835	2.00000	1.9113
115	Phenanthrene	178	6.728	6.728	(1.002)	516471	1.00000	0.98639
116	Anthracene	178	6.766	6.766	(1.008)	521536	1.00000	0.98839
119	Carbazole	167	6.867	6.867	(1.023)	493379	1.00000	0.98533
120	Di-n-Butylphthalate	149	7.081	7.081	(1.055)	531046	1.00000	0.96440
123	Fluoranthene	202	7.594	7.594	(1.131)	502340	1.00000	0.96672
124	Benzidine	184	7.669	7.669	(0.886)	232298	1.00000	0.91952
125	Pyrene	202	7.765	7.765	(0.897)	547209	1.00000	0.97531
131	Butylbenzylphthalate	149	8.187	8.187	(0.946)	220237	1.00000	0.95835
133	3,3'-Dimethoxybenzidine	244	8.572	8.572	(0.990)	82467	1.00000	0.90502
135	3,3'-Dichlorobenzidine	252	8.604	8.604	(0.994)	171886	1.00000	0.94344
136	Benzo(a)Anthracene	228	8.652	8.652	(0.999)	504803	1.00000	0.96166
137	Chrysene	228	8.678	8.678	(1.002)	528506	1.00000	1.0063

138	4,4'-Methylene bis(o-chloroan	231	8.604	8.604 (0.994)	82389	1.00000	0.94441
139	bis(2-ethylhexyl)Phthalate	149	8.593	8.593 (0.993)	305576	1.00000	0.94914

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.132	9.132	(0.908)	453358	1.00000	0.92727
141 Benzo(b)fluoranthene	252	9.624	9.624	(0.956)	443906	1.00000	0.99779
142 Benzo(k)fluoranthene	252	9.651	9.651	(0.959)	510064	1.00000	0.95301
146 Benzo(a)pyrene	252	9.998	9.998	(0.994)	414195	1.00000	0.96238
149 Indeno(1,2,3-cd)pyrene	276	11.585	11.585	(1.151)	430053	1.00000	0.95904
150 Dibenz(a,h)anthracene	278	11.601	11.601	(1.153)	347535	1.00000	0.93344
151 Benzo(g,h,i)perylene	276	12.055	12.055	(1.198)	360391	1.00000	0.95895
$ 154 Nitrobenzene-d5	82	3.844	3.844	(0.881)	196800	1.00000	0.96485
$ 155 2-Fluorobiphenyl	172	5.120	5.120	(0.910)	373490	1.00000	0.99183
$ 156 Terphenyl-d14	244	7.845	7.845	(0.906)	315685	1.00000	0.98236
$ 157 Phenol-d5	99	3.171	3.171	(0.914)	225950	1.00000	0.97560
$ 158 2-Fluorophenol	112	2.604	2.604	(0.751)	167771	1.00000	0.96716
$ 159 2,4,6-Tribromophenol	330	6.194	6.194	(1.101)	34544	1.00000	0.98900
$ 186 2-Chlorophenol-d4	132	3.315	3.315	(0.955)	167345	1.00000	0.96635
$ 187 1,2-Dichlorobenzene-d4	152	3.582	3.582	(1.032)	123568	1.00000	0.99352
M 195 Cresols, total	100				360227	1.00000	1.9495
101 Diphenylamine	169	6.087	6.087	(0.907)	234999	1.00000	1.0116

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

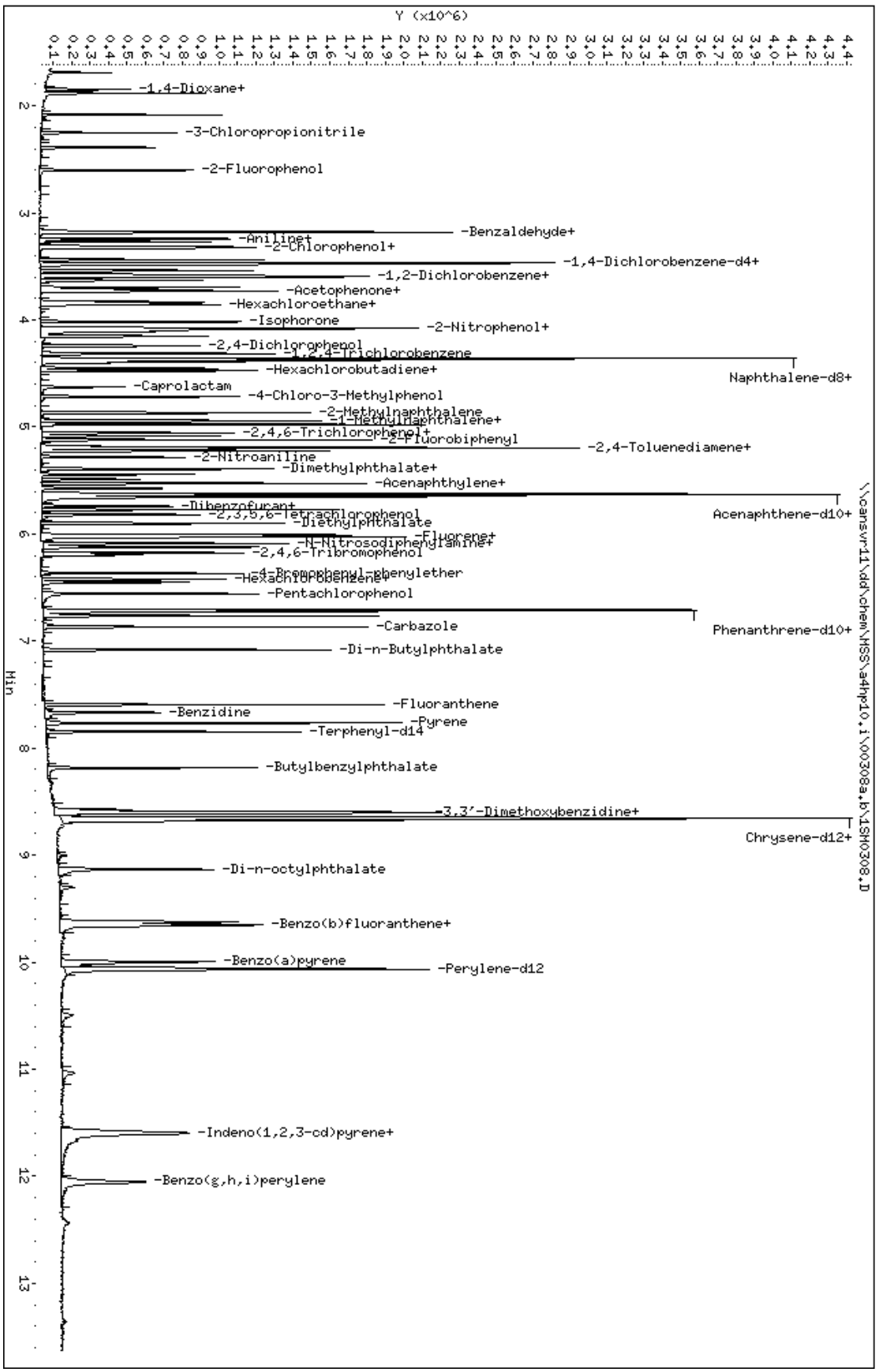
Instrument ID: a4hp10.i
Lab File ID: 1SM0308.D
Lab Smp Id: L4
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 15:30
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	317839	158920	635678	317839	0.00
2 Naphthalene-d8	1220655	610328	2441310	1220655	0.00
3 Acenaphthene-d10	652870	326435	1305740	652870	0.00
4 Phenanthrene-d10	1028739	514370	2057478	1028739	0.00
5 Chrysene-d12	1123171	561586	2246342	1123171	0.00
6 Perylene-d12	909276	454638	1818552	909276	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	0.00
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	0.00
5 Chrysene-d12	8.66	8.16	9.16	8.66	0.00
6 Perylene-d12	10.06	9.56	10.56	10.06	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSS\a4hp10,i\00308a,b\1SM0308,D
Date : 08-MAR-2010 15:30
Client ID:
Sample Info: L4,00308a,b,8270C-625,1-827042d,sub,1,,4
Column phase: db5,625

Instrument: a4hp10,i
Operator: 001710
Column diameter: 0.32

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMH0308.D
Lab Smp Id: L6
Inj Date : 08-MAR-2010 17:49
Operator : 001710   Inst ID: a4hp10.i
Smp Info : L6,00308a.b,8270C-625,1-827042d.sub,1,,6
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 08:24 GruberJ   Quant Type: ISTD
Cal Date : 08-MAR-2010 17:49   Cal File: 1SMH0308.D
Als bottle: 10   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.475	3.475	(1.000)	391286	2.00000	
*	2 Naphthalene-d8	136	4.362	4.362	(1.000)	1471864	2.00000	
*	3 Acenaphthene-d10	164	5.628	5.628	(1.000)	794066	2.00000	
*	4 Phenanthrene-d10	188	6.713	6.713	(1.000)	1245056	2.00000	
*	5 Chrysene-d12	240	8.662	8.662	(1.000)	1387226	2.00000	
*	6 Perylene-d12	264	10.073	10.073	(1.000)	1100387	2.00000	
	198 1,4-Dioxane	88	1.685	1.685	(0.485)	525975	5.00000	4.8307
	9 Pyridine	79	1.878	1.878	(0.540)	1342903	5.00000	4.8927
	10 N-Nitrosodimethylamine	74	1.846	1.846	(0.531)	736227	5.00000	4.8006
	12 3-Chloropropionitrile	54	2.252	2.252	(0.648)	722757	5.00000	4.7181
	209 Benzaldehyde	77	3.181	3.181	(0.915)	697050	5.00000	4.5067
	21 Aniline	93	3.245	3.245	(0.934)	1904204	5.00000	5.0480
	22 Phenol	94	3.187	3.187	(0.917)	1500332	5.00000	4.8420
	23 bis(2-Chloroethyl)ether	93	3.272	3.272	(0.942)	1193644	5.00000	4.8379
	24 2-Chlorophenol	128	3.331	3.331	(0.958)	1188436	5.00000	4.9330
	26 1,3-Dichlorobenzene	146	3.438	3.438	(0.989)	1228788	5.00000	4.8162
	27 1,4-Dichlorobenzene	146	3.486	3.486	(1.003)	1207026	5.00000	4.7747
	28 1,2-Dichlorobenzene	146	3.593	3.593	(1.034)	1149978	5.00000	4.7865
	29 Benzyl Alcohol	108	3.545	3.545	(1.020)	770946	5.00000	4.9112
	30 2-Methylphenol	108	3.603	3.603	(1.037)	1104401	5.00000	4.9527
	31 bis(2-Chloroisopropyl)ether	45	3.630	3.630	(1.045)	1603167	5.00000	4.7499
	37 Acetophenone	105	3.737	3.737	(1.075)	1551358	5.00000	4.8668
	32 N-Nitroso-di-n-propylamine	70	3.726	3.726	(1.072)	835998	5.00000	4.9655
	192 4-Methylphenol	108	3.705	3.705	(1.066)	1163143	5.00000	4.9682
	34 Hexachloroethane	117	3.828	3.828	(1.101)	437453	5.00000	4.8757
	35 Nitrobenzene	77	3.865	3.865	(0.886)	1234763	5.00000	4.9572
	41 Isophorone	82	4.020	4.020	(0.922)	2313502	5.00000	4.9945
	42 2-Nitrophenol	139	4.084	4.084	(0.936)	614918	5.00000	5.0900
	43 2,4-Dimethylphenol	107	4.079	4.079	(0.935)	1118911	5.00000	5.0507
	44 bis(2-Chloroethoxy)methane	93	4.154	4.154	(0.952)	1309025	5.00000	4.9463
	46 2,4-Toluenediamene	121	5.185	5.185	(1.189)	333884	5.00000	4.9463

47	1,3,5-Trichlorobenzene	180	4.095	4.095 (0.939)	986977	5.00000	4.8730
48	2,4-Dichlorophenol	162	4.244	4.244 (0.973)	880901	5.00000	5.0908

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
49	Benzoic Acid	122	4.159	4.159	(0.953)	1370398	10.0000	9.6417(MH)
50	1,2,4-Trichlorobenzene	180	4.314	4.314	(0.989)	972282	5.00000	4.8482
51	Naphthalene	128	4.378	4.378	(1.004)	3348115	5.00000	5.0022
52	4-Chloroaniline	127	4.399	4.399	(1.009)	1370326	5.00000	4.8461
56	Hexachlorobutadiene	225	4.453	4.453	(1.021)	498188	5.00000	4.9106
210	Caprolactam	113	4.656	4.656	(1.067)	363464	5.00000	5.6615
57	1,2,3-Trichlorobenzene	180	4.479	4.479	(1.027)	910889	5.00000	4.8610
59	4-Chloro-3-Methylphenol	107	4.725	4.725	(1.083)	909636	5.00000	5.0763
62	2-Methylnaphthalene	142	4.869	4.869	(1.116)	1795332	5.00000	4.8611
63	1-Methylnaphthalene	142	4.944	4.944	(1.133)	2068617	5.00000	4.9354
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	555246	5.00000	5.1877
66	2,4,6-Trichlorophenol	196	5.062	5.062	(0.899)	606132	5.00000	4.9313
67	2,4,5-Trichlorophenol	196	5.088	5.088	(0.904)	670405	5.00000	5.1451
211	1,1'-Biphenyl	154	5.201	5.201	(0.924)	2536886	5.00000	4.8643
68	1,2,3,5-Tetrachlorobenzene	216	4.976	4.976	(0.884)	927324	5.00000	4.9469
70	2-Chloronaphthalene	162	5.227	5.227	(0.929)	1951313	5.00000	4.8342
73	2-Nitroaniline	65	5.286	5.286	(0.939)	587157	5.00000	4.9878
74	1,2,3,4-Tetrachlorobenzene	216	5.195	5.195	(0.923)	833203	5.00000	4.8713
76	Dimethylphthalate	163	5.398	5.398	(0.959)	2195151	5.00000	4.9675
78	2,6-Dinitrotoluene	165	5.452	5.452	(0.969)	529048	5.00000	5.2658
79	Acenaphthylene	152	5.532	5.532	(0.983)	3222079	5.00000	5.0290
80	1,2-Dinitrobenzene	168	5.500	5.500	(0.977)	268901	5.00000	5.2402
81	3-Nitroaniline	138	5.580	5.580	(0.991)	580328	5.00000	5.1331
82	Acenaphthene	153	5.655	5.655	(1.005)	1912934	5.00000	4.7678
83	2,4-Dinitrophenol	184	5.655	5.655	(1.005)	757284	10.0000	11.688
85	4-Nitrophenol	109	5.671	5.671	(1.008)	263216	5.00000	5.0568
86	Dibenzofuran	168	5.778	5.778	(1.027)	2793322	5.00000	4.9291
87	2,4-Dinitrotoluene	165	5.746	5.746	(1.021)	683416	5.00000	5.1596
91	2,3,5,6-Tetrachlorophenol	232	5.820	5.820	(1.034)	525943	5.00000	5.1084
93	Diethylphthalate	149	5.906	5.906	(1.049)	2109571	5.00000	4.9698
94	Fluorene	166	6.029	6.029	(1.071)	2254477	5.00000	4.8971
95	4-Chlorophenyl-phenylether	204	6.007	6.007	(1.067)	1036170	5.00000	4.8876
96	4-Nitroaniline	138	6.023	6.023	(1.070)	615365	5.00000	5.2440
98	4,6-Dinitro-2-methylphenol	198	6.039	6.039	(0.900)	422123	5.00000	5.6452
99	N-Nitrosodiphenylamine	169	6.093	6.093	(0.908)	1450359	5.00000	4.6130
100	1,2-Diphenylhydrazine	77	6.125	6.125	(0.912)	2303015	5.00000	4.8713
106	4-Bromophenyl-phenylether	248	6.371	6.371	(0.949)	550521	5.00000	4.8846
107	Hexachlorobenzene	284	6.424	6.424	(0.957)	536475	5.00000	4.8586
212	Atrazine	200	6.456	6.456	(0.962)	387142	5.00000	5.1749
111	Pentachlorophenol	266	6.563	6.563	(0.978)	725908	10.0000	10.154
115	Phenanthrene	178	6.729	6.729	(1.002)	3138788	5.00000	4.8155
116	Anthracene	178	6.766	6.766	(1.008)	3177039	5.00000	4.9171
119	Carbazole	167	6.873	6.873	(1.024)	3049638	5.00000	4.9227
120	Di-n-Butylphthalate	149	7.081	7.081	(1.055)	3475835	5.00000	5.2257
123	Fluoranthene	202	7.599	7.599	(1.132)	3209235	5.00000	4.9531
124	Benzidine	184	7.669	7.669	(0.885)	1799315	5.00000	5.6069
125	Pyrene	202	7.770	7.770	(0.897)	3438895	5.00000	4.9543
131	Butylbenzylphthalate	149	8.187	8.187	(0.945)	1474930	5.00000	5.1950
133	3,3'-Dimethoxybenzidine	244	8.577	8.577	(0.990)	683389	5.00000	6.1848
135	3,3'-Dichlorobenzidine	252	8.614	8.614	(0.994)	1163560	5.00000	5.1019
136	Benzo(a)Anthracene	228	8.657	8.657	(0.999)	3308239	5.00000	4.9092
137	Chrysene	228	8.684	8.684	(1.002)	3125568	5.00000	4.8294

138	4,4'-Methylene bis(o-chloroan	231	8.609	8.609 (0.994)	553777	5.00000	5.1200
139	bis(2-ethylhexyl)Phthalate	149	8.598	8.598 (0.993)	2064416	5.00000	5.1404

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.138	9.138	(0.907)	3245960	5.00000	5.3208
141 Benzo(b)fluoranthene	252	9.635	9.635	(0.957)	3004056	5.00000	5.2976
142 Benzo(k)fluoranthene	252	9.667	9.667	(0.960)	3082018	5.00000	4.7106
146 Benzo(a)pyrene	252	10.009	10.009	(0.994)	2797999	5.00000	5.1884
149 Indeno(1,2,3-cd)pyrene	276	11.617	11.617	(1.153)	2931538	5.00000	5.2056
150 Dibenz(a,h)anthracene	278	11.627	11.627	(1.154)	2473529	5.00000	5.5806
151 Benzo(g,h,i)perylene	276	12.081	12.081	(1.199)	2400856	5.00000	5.1312
$ 154 Nitrobenzene-d5	82	3.849	3.849	(0.882)	1242800	5.00000	5.0135
$ 155 2-Fluorobiphenyl	172	5.121	5.121	(0.910)	2298951	5.00000	4.9095
$ 156 Terphenyl-d14	244	7.850	7.850	(0.906)	2007024	5.00000	4.9798
$ 157 Phenol-d5	99	3.176	3.176	(0.914)	1420087	5.00000	4.9153
$ 158 2-Fluorophenol	112	2.604	2.604	(0.749)	1085206	5.00000	4.9511
$ 159 2,4,6-Tribromophenol	330	6.200	6.200	(1.102)	219915	5.00000	5.1894
$ 186 2-Chlorophenol-d4	132	3.320	3.320	(0.955)	1083720	5.00000	4.9615
$ 187 1,2-Dichlorobenzene-d4	152	3.582	3.582	(1.031)	739213	5.00000	4.7999
M 195 Cresols, total	100				2267544	5.00000	9.9210
101 Diphenylamine	169	6.093	6.093	(0.908)	1450359	5.00000	4.6130

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp10.i
Lab File ID: 1SMH0308.D
Lab Smp Id: L6
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 17:49
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	391286	195643	782572	391286	0.00
2 Naphthalene-d8	1471864	735932	2943728	1471864	0.00
3 Acenaphthene-d10	794066	397033	1588132	794066	0.00
4 Phenanthrene-d10	1245056	622528	2490112	1245056	0.00
5 Chrysene-d12	1387226	693613	2774452	1387226	0.00
6 Perylene-d12	1100387	550194	2200774	1100387	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	0.00
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	0.00
5 Chrysene-d12	8.66	8.16	9.16	8.66	0.00
6 Perylene-d12	10.07	9.57	10.57	10.07	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMH0308.D

Page 1

Date : 08-MAR-2010 17:49

Client ID:

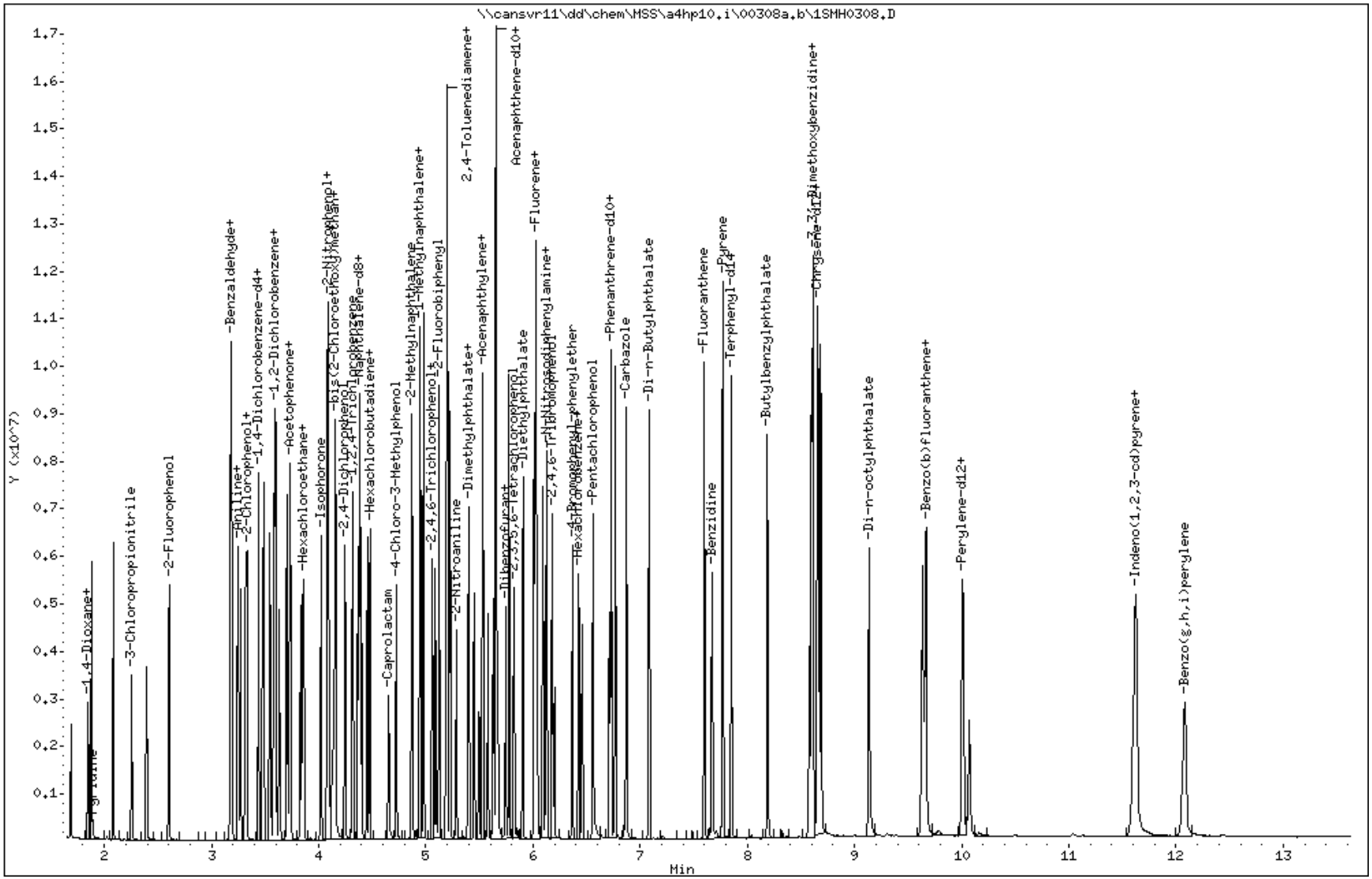
Instrument: a4hp10.i

Sample Info: L6,00308a.b,8270C-625,1-827042d.sub,1,,6

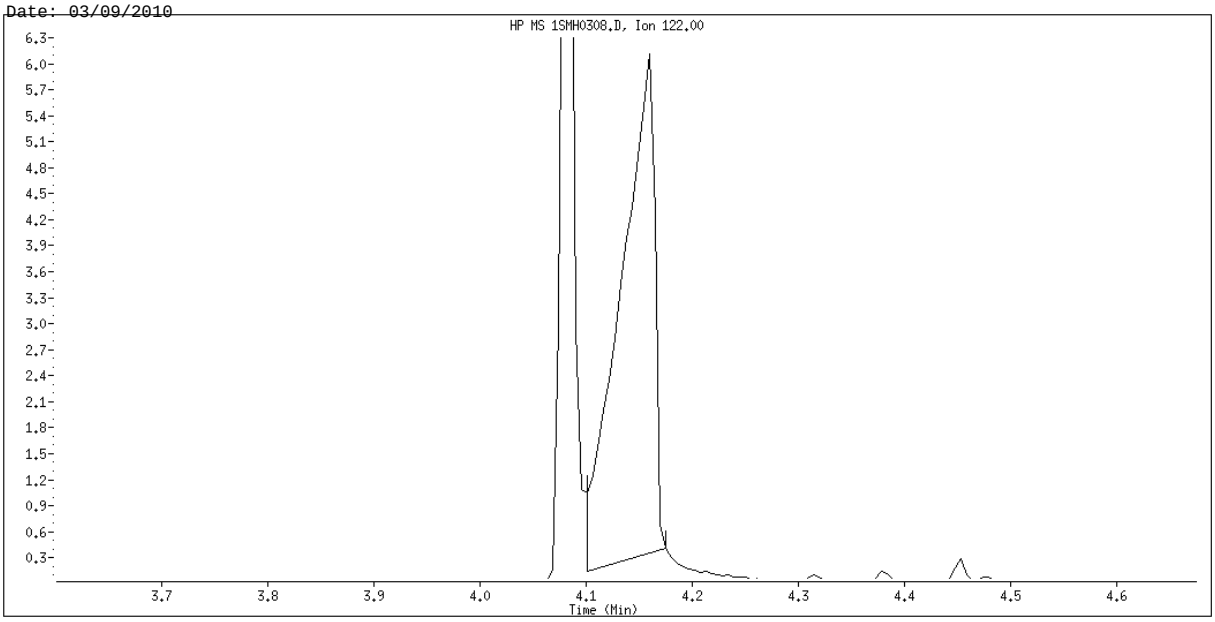
Operator: 001710

Column phase: db5.625

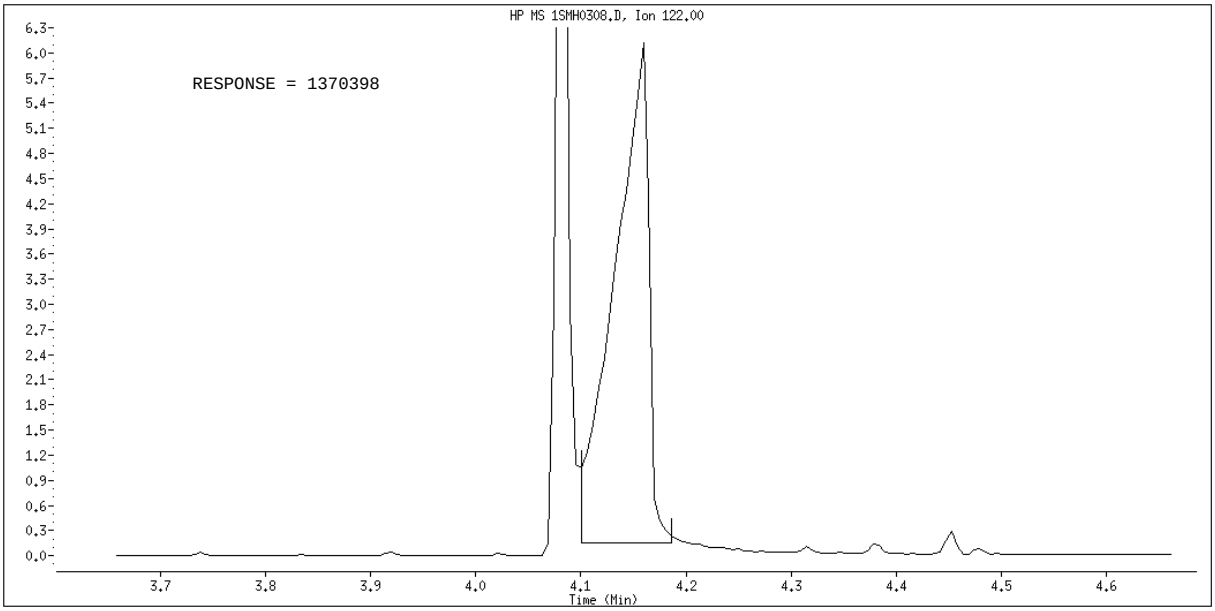
Column diameter: 0.32



Data File Name: 1SMH0308.D
Inj. Date and Time: 08-MAR-2010 17:49
Instrument ID: a4hp10.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SML0308.D
Lab Smp Id: L3
Inj Date : 08-MAR-2010 15:50
Operator : 001710   Inst ID: a4hp10.i
Smp Info : L3,00308a.b,8270C-625,1-827042d.sub,1,,3
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 08:24 GruberJ   Quant Type: ISTD
Cal Date : 08-MAR-2010 15:50   Cal File: 1SML0308.D
Als bottle: 4   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	309218	2.00000	
*	2 Naphthalene-d8	136	4.362	4.362	(1.000)	1189327	2.00000	
*	3 Acenaphthene-d10	164	5.628	5.628	(1.000)	623928	2.00000	
*	4 Phenanthrene-d10	188	6.707	6.707	(1.000)	980778	2.00000	
*	5 Chrysene-d12	240	8.663	8.663	(1.000)	1076674	2.00000	
*	6 Perylene-d12	264	10.068	10.068	(1.000)	856537	2.00000	
	198 1,4-Dioxane	88	1.686	1.686	(0.486)	41419	0.50000	0.48137
	9 Pyridine	79	1.878	1.878	(0.541)	95756	0.50000	0.44146
	10 N-Nitrosodimethylamine	74	1.840	1.840	(0.530)	59616	0.50000	0.49190
	12 3-Chloropropionitrile	54	2.246	2.246	(0.647)	58914	0.50000	0.48666
	209 Benzaldehyde	77	3.181	3.181	(0.917)	68072	0.50000	0.55692
	21 Aniline	93	3.240	3.240	(0.934)	139749	0.50000	0.46880
	22 Phenol	94	3.181	3.181	(0.917)	118615	0.50000	0.48440
	23 bis(2-Chloroethyl)ether	93	3.267	3.267	(0.942)	98271	0.50000	0.50401
	24 2-Chlorophenol	128	3.326	3.326	(0.958)	90024	0.50000	0.47285
	26 1,3-Dichlorobenzene	146	3.438	3.438	(0.991)	100363	0.50000	0.49778
	27 1,4-Dichlorobenzene	146	3.486	3.486	(1.005)	101482	0.50000	0.50798
	28 1,2-Dichlorobenzene	146	3.587	3.587	(1.034)	96438	0.50000	0.50794
	29 Benzyl Alcohol	108	3.539	3.539	(1.020)	57532	0.50000	0.46377
	30 2-Methylphenol	108	3.598	3.598	(1.037)	82944	0.50000	0.47069
	31 bis(2-Chloroisopropyl)ether	45	3.630	3.630	(1.046)	136256	0.50000	0.51085
	37 Acetophenone	105	3.732	3.732	(1.075)	125533	0.50000	0.49833
	32 N-Nitroso-di-n-propylamine	70	3.721	3.721	(1.072)	65153	0.50000	0.48969
	192 4-Methylphenol	108	3.694	3.694	(1.065)	88638	0.50000	0.47909
	34 Hexachloroethane	117	3.828	3.828	(1.103)	34897	0.50000	0.49218
	35 Nitrobenzene	77	3.860	3.860	(0.885)	99706	0.50000	0.49538
	41 Isophorone	82	4.015	4.015	(0.920)	174570	0.50000	0.46640
	42 2-Nitrophenol	139	4.079	4.079	(0.935)	46899	0.50000	0.48043
	43 2,4-Dimethylphenol	107	4.079	4.079	(0.935)	84825	0.50000	0.47386
	44 bis(2-Chloroethoxy)methane	93	4.148	4.148	(0.951)	103860	0.50000	0.48568
	46 2,4-Toluenediamene	121	5.179	5.179	(1.187)	33890	0.50000	0.62133

47	1,3,5-Trichlorobenzene	180	4.090	4.090 (0.938)	79918	0.50000	0.48832
48	2,4-Dichlorophenol	162	4.244	4.244 (0.973)	65391	0.50000	0.46767
49	Benzoic Acid	122	Compound Not Detected.				

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
50	1,2,4-Trichlorobenzene	180	4.314	4.314	(0.989)	80965	0.50000	0.49963
51	Naphthalene	128	4.378	4.378	(1.004)	269572	0.50000	0.49842
52	4-Chloroaniline	127	4.394	4.394	(1.007)	111537	0.50000	0.48815
56	Hexachlorobutadiene	225	4.453	4.453	(1.021)	39138	0.50000	0.47742
210	Caprolactam	113	4.624	4.624	(1.060)	20655	0.50000	0.39817
57	1,2,3-Trichlorobenzene	180	4.474	4.474	(1.026)	75770	0.50000	0.50041
59	4-Chloro-3-Methylphenol	107	4.715	4.715	(1.081)	64453	0.50000	0.44513
62	2-Methylnaphthalene	142	4.870	4.870	(1.116)	142571	0.50000	0.47773
63	1-Methylnaphthalene	142	4.944	4.944	(1.133)	164373	0.50000	0.48534
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	36527	0.50000	0.43434
66	2,4,6-Trichlorophenol	196	5.056	5.056	(0.898)	45025	0.50000	0.46620
67	2,4,5-Trichlorophenol	196	5.083	5.083	(0.903)	44195	0.50000	0.43167
211	1,1'-Biphenyl	154	5.195	5.195	(0.923)	208722	0.50000	0.50934
68	1,2,3,5-Tetrachlorobenzene	216	4.976	4.976	(0.884)	72325	0.50000	0.49104
70	2-Chloronaphthalene	162	5.222	5.222	(0.928)	152599	0.50000	0.48114
73	2-Nitroaniline	65	5.281	5.281	(0.938)	44447	0.50000	0.48052
74	1,2,3,4-Tetrachlorobenzene	216	5.195	5.195	(0.923)	67349	0.50000	0.50112
76	Dimethylphthalate	163	5.393	5.393	(0.958)	163033	0.50000	0.46954
78	2,6-Dinitrotoluene	165	5.446	5.446	(0.968)	34941	0.50000	0.44262
79	Acenaphthylene	152	5.527	5.527	(0.982)	250732	0.50000	0.49805
80	1,2-Dinitrobenzene	168	5.489	5.489	(0.975)	17106	0.50000	0.42426
81	3-Nitroaniline	138	5.575	5.575	(0.991)	41393	0.50000	0.46596
82	Acenaphthene	153	5.649	5.649	(1.004)	161412	0.50000	0.51200
83	2,4-Dinitrophenol	184	5.644	5.644	(1.003)	29709	1.00000	0.58358
85	4-Nitrophenol	109	5.660	5.660	(1.006)	17010	0.50000	0.41590
86	Dibenzofuran	168	5.772	5.772	(1.026)	220771	0.50000	0.49581
87	2,4-Dinitrotoluene	165	5.740	5.740	(1.020)	48233	0.50000	0.46345
91	2,3,5,6-Tetrachlorophenol	232	5.820	5.820	(1.034)	36985	0.50000	0.45718
93	Diethylphthalate	149	5.901	5.901	(1.048)	163475	0.50000	0.49014
94	Fluorene	166	6.023	6.023	(1.070)	180669	0.50000	0.49946
95	4-Chlorophenyl-phenylether	204	6.007	6.007	(1.067)	82753	0.50000	0.49679
96	4-Nitroaniline	138	6.013	6.013	(1.068)	39756	0.50000	0.43118
98	4,6-Dinitro-2-methylphenol	198	6.034	6.034	(0.900)	19965	0.50000	0.33894
99	N-Nitrosodiphenylamine	169	6.088	6.088	(0.908)	120849	0.50000	0.48794
100	1,2-Diphenylhydrazine	77	6.120	6.120	(0.912)	179376	0.50000	0.48165
106	4-Bromophenyl-phenylether	248	6.365	6.365	(0.949)	42290	0.50000	0.47634
107	Hexachlorobenzene	284	6.424	6.424	(0.958)	41212	0.50000	0.47381
212	Atrazine	200	6.451	6.451	(0.962)	28410	0.50000	0.48208
111	Pentachlorophenol	266	6.558	6.558	(0.978)	44230	1.00000	0.78542
115	Phenanthrene	178	6.729	6.729	(1.003)	251507	0.50000	0.48984
116	Anthracene	178	6.766	6.766	(1.009)	247218	0.50000	0.48571
119	Carbazole	167	6.868	6.868	(1.024)	228989	0.50000	0.46923
120	Di-n-Butylphthalate	149	7.081	7.081	(1.056)	238134	0.50000	0.45449
123	Fluoranthene	202	7.594	7.594	(1.132)	240257	0.50000	0.47073
124	Benzidine	184	7.669	7.669	(0.885)	89073	0.50000	0.35762
125	Pyrene	202	7.765	7.765	(0.896)	257574	0.50000	0.47811
131	Butylbenzylphthalate	149	8.187	8.187	(0.945)	95402	0.50000	0.43294
133	3,3'-Dimethoxybenzidine	244	8.577	8.577	(0.990)	25847	0.50000	0.30139
135	3,3'-Dichlorobenzidine	252	8.609	8.609	(0.994)	80706	0.50000	0.45594
136	Benzo(a)Anthracene	228	8.652	8.652	(0.999)	249133	0.50000	0.47633
137	Chrysene	228	8.684	8.684	(1.002)	242593	0.50000	0.48295
138	4,4'-Methylene bis(o-chloroan	231	8.604	8.604	(0.993)	38282	0.50000	0.45603

139	bis(2-ethylhexyl)Phthalate	149	8.598	8.598 (0.993)	138141	0.50000	0.44319
140	Di-n-octylphthalate	149	9.138	9.138 (0.908)	187096	0.50000	0.39400

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
141 Benzo(b)fluoranthene	252	9.624	9.624	(0.956)	195629	0.50000	0.44320
142 Benzo(k)fluoranthene	252	9.656	9.656	(0.959)	248701	0.50000	0.48834
146 Benzo(a)pyrene	252	10.003	10.003	(0.994)	189344	0.50000	0.45107
149 Indeno(1,2,3-cd)pyrene	276	11.585	11.585	(1.151)	191756	0.50000	0.43745
150 Dibenz(a,h)anthracene	278	11.606	11.606	(1.153)	151505	0.50000	0.43912
151 Benzo(g,h,i)perylene	276	12.055	12.055	(1.197)	167030	0.50000	0.45862
$ 154 Nitrobenzene-d5	82	3.844	3.844	(0.881)	93241	0.50000	0.46549
$ 155 2-Fluorobiphenyl	172	5.121	5.121	(0.910)	178855	0.50000	0.48611
$ 156 Terphenyl-d14	244	7.850	7.850	(0.906)	147698	0.50000	0.47217
$ 157 Phenol-d5	99	3.171	3.171	(0.914)	110002	0.50000	0.48180
$ 158 2-Fluorophenol	112	2.599	2.599	(0.749)	84132	0.50000	0.48571
$ 159 2,4,6-Tribromophenol	330	6.194	6.194	(1.101)	15462	0.50000	0.46435
$ 186 2-Chlorophenol-d4	132	3.315	3.315	(0.955)	81623	0.50000	0.47286
$ 187 1,2-Dichlorobenzene-d4	152	3.582	3.582	(1.032)	60412	0.50000	0.49639
M 195 Cresols, total	100				171582	0.50000	0.94978
101 Diphenylamine	169	6.088	6.088	(0.908)	120849	0.50000	0.48794

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp10.i
Lab File ID: 1SML0308.D
Lab Smp Id: L3
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 18:08
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	416795	208398	833590	309218	-25.81
2 Naphthalene-d8	1543473	771737	3086946	1189327	-22.94
3 Acenaphthene-d10	822161	411081	1644322	623928	-24.11
4 Phenanthrene-d10	1272646	636323	2545292	980778	-22.93
5 Chrysene-d12	1413415	706708	2826830	1076674	-23.82
6 Perylene-d12	1128081	564041	2256162	856537	-24.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.47	-0.16
2 Naphthalene-d8	4.36	3.86	4.86	4.36	-0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	-0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	-0.08
5 Chrysene-d12	8.67	8.17	9.17	8.66	-0.12
6 Perylene-d12	10.08	9.58	10.58	10.07	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SML0308.D

Page 1

Date : 08-MAR-2010 15:50

Client ID:

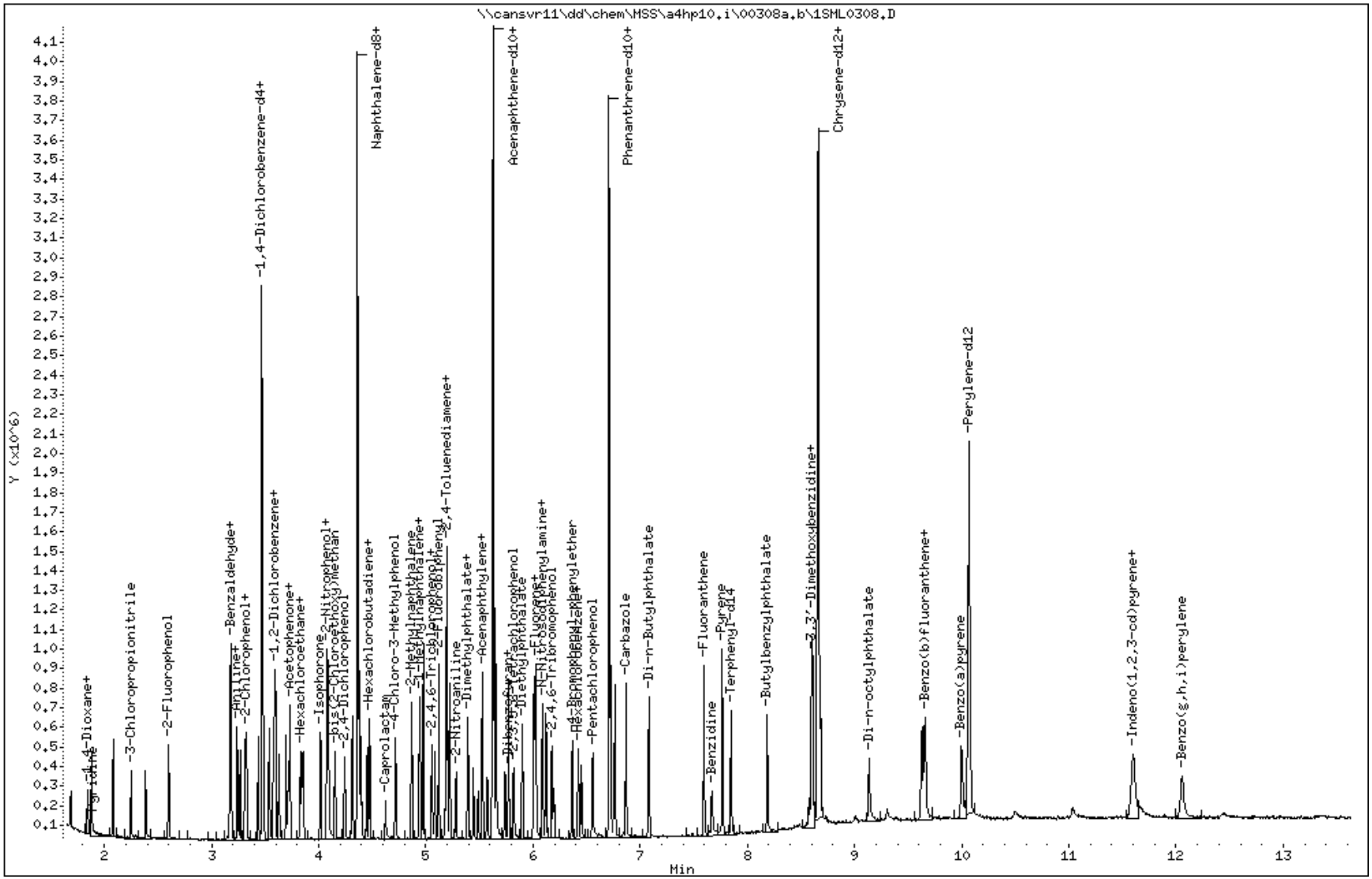
Instrument: a4hp10.i

Sample Info: L3,00308a.b,8270C-625,1-827042d.sub,1,,3

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMM0308.D
Lab Smp Id: L5
Inj Date : 08-MAR-2010 15:11
Operator : 001710   Inst ID: a4hp10.i
Smp Info : L5,00308a.b,8270C-625,1-827042d.sub,1,,5
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 08:24 GruberJ   Quant Type: ISTD
Cal Date : 08-MAR-2010 15:11   Cal File: 1SMM0308.D
Als bottle: 2   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	285517	2.00000	
*	2 Naphthalene-d8	136	4.362	4.362	(1.000)	1070563	2.00000	
*	3 Acenaphthene-d10	164	5.628	5.628	(1.000)	588462	2.00000	
*	4 Phenanthrene-d10	188	6.713	6.713	(1.000)	921694	2.00000	
*	5 Chrysene-d12	240	8.668	8.668	(1.000)	1005531	2.00000	
*	6 Perylene-d12	264	10.073	10.073	(1.000)	805300	2.00000	
	198 1,4-Dioxane	88	1.686	1.686	(0.486)	202593	2.50000	2.5000
	9 Pyridine	79	1.878	1.878	(0.541)	518167	2.50000	2.5000
	10 N-Nitrosodimethylamine	74	1.840	1.840	(0.530)	277243	2.50000	2.5000
	12 3-Chloropropionitrile	54	2.252	2.252	(0.649)	280030	2.50000	2.5000
	209 Benzaldehyde	77	3.181	3.181	(0.917)	315201	2.50000	2.5000
	21 Aniline	93	3.245	3.245	(0.935)	687757	2.50000	2.5000
	22 Phenol	94	3.181	3.181	(0.917)	568640	2.50000	2.5000
	23 bis(2-Chloroethyl)ether	93	3.267	3.267	(0.942)	442511	2.50000	2.5000
	24 2-Chlorophenol	128	3.326	3.326	(0.958)	442739	2.50000	2.5000
	26 1,3-Dichlorobenzene	146	3.438	3.438	(0.991)	468011	2.50000	2.5000
	27 1,4-Dichlorobenzene	146	3.486	3.486	(1.005)	458351	2.50000	2.5000
	28 1,2-Dichlorobenzene	146	3.593	3.593	(1.035)	438699	2.50000	2.5000
	29 Benzyl Alcohol	108	3.539	3.539	(1.020)	288547	2.50000	2.5000
	30 2-Methylphenol	108	3.598	3.598	(1.037)	418686	2.50000	2.5000
	31 bis(2-Chloroisopropyl)ether	45	3.630	3.630	(1.046)	631283	2.50000	2.5000
	37 Acetophenone	105	3.732	3.732	(1.075)	586856	2.50000	2.5000
	32 N-Nitroso-di-n-propylamine	70	3.721	3.721	(1.072)	314656	2.50000	2.5000
	192 4-Methylphenol	108	3.700	3.700	(1.066)	432210	2.50000	2.5000
	34 Hexachloroethane	117	3.828	3.828	(1.103)	162348	2.50000	2.5000
	35 Nitrobenzene	77	3.860	3.860	(0.885)	456801	2.50000	2.5000
	41 Isophorone	82	4.020	4.020	(0.922)	856009	2.50000	2.5000
	42 2-Nitrophenol	139	4.084	4.084	(0.936)	230624	2.50000	2.5000
	43 2,4-Dimethylphenol	107	4.079	4.079	(0.935)	413294	2.50000	2.5000
	44 bis(2-Chloroethoxy)methane	93	4.154	4.154	(0.952)	482957	2.50000	2.5000
	46 2,4-Toluenediamene	121	5.179	5.179	(1.187)	115763	2.50000	2.5000

47	1,3,5-Trichlorobenzene	180	4.090	4.090 (0.938)	374118	2.50000	2.5000
48	2,4-Dichlorophenol	162	4.244	4.244 (0.973)	325288	2.50000	2.5000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49	Benzoic Acid	122	4.127	4.127	(0.946)	474436	5.00000	5.0000
50	1,2,4-Trichlorobenzene	180	4.314	4.314	(0.989)	372371	2.50000	2.5000
51	Naphthalene	128	4.378	4.378	(1.004)	1260819	2.50000	2.5000
52	4-Chloroaniline	127	4.394	4.394	(1.007)	529543	2.50000	2.5000
56	Hexachlorobutadiene	225	4.453	4.453	(1.021)	187698	2.50000	2.5000
210	Caprolactam	113	4.634	4.634	(1.062)	129574	2.50000	2.5000
57	1,2,3-Trichlorobenzene	180	4.474	4.474	(1.026)	338771	2.50000	2.5000
59	4-Chloro-3-Methylphenol	107	4.720	4.720	(1.082)	338532	2.50000	2.5000
62	2-Methylnaphthalene	142	4.870	4.870	(1.116)	677207	2.50000	2.5000
63	1-Methylnaphthalene	142	4.944	4.944	(1.133)	771417	2.50000	2.5000
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	199884	2.50000	2.5000
66	2,4,6-Trichlorophenol	196	5.057	5.057	(0.898)	228758	2.50000	2.5000
67	2,4,5-Trichlorophenol	196	5.083	5.083	(0.903)	248791	2.50000	2.5000
211	1,1'-Biphenyl	154	5.201	5.201	(0.924)	963648	2.50000	2.5000
68	1,2,3,5-Tetrachlorobenzene	216	4.976	4.976	(0.884)	339413	2.50000	2.5000
70	2-Chloronaphthalene	162	5.222	5.222	(0.928)	729016	2.50000	2.5000
73	2-Nitroaniline	65	5.281	5.281	(0.938)	225946	2.50000	2.5000
74	1,2,3,4-Tetrachlorobenzene	216	5.195	5.195	(0.923)	313839	2.50000	2.5000
76	Dimethylphthalate	163	5.398	5.398	(0.959)	812838	2.50000	2.5000
78	2,6-Dinitrotoluene	165	5.446	5.446	(0.968)	188013	2.50000	2.5000
79	Acenaphthylene	152	5.527	5.527	(0.982)	1214628	2.50000	2.5000
80	1,2-Dinitrobenzene	168	5.495	5.495	(0.976)	97602	2.50000	2.5000
81	3-Nitroaniline	138	5.575	5.575	(0.991)	212398	2.50000	2.5000
82	Acenaphthene	153	5.649	5.649	(1.004)	755423	2.50000	2.5000
83	2,4-Dinitrophenol	184	5.649	5.649	(1.004)	265442	5.00000	5.0000
85	4-Nitrophenol	109	5.666	5.666	(1.007)	104761	2.50000	2.5000
86	Dibenzofuran	168	5.778	5.778	(1.027)	1045712	2.50000	2.5000
87	2,4-Dinitrotoluene	165	5.740	5.740	(1.020)	248949	2.50000	2.5000
91	2,3,5,6-Tetrachlorophenol	232	5.820	5.820	(1.034)	194087	2.50000	2.5000
93	Diethylphthalate	149	5.901	5.901	(1.048)	782897	2.50000	2.5000
94	Fluorene	166	6.023	6.023	(1.070)	859851	2.50000	2.5000
95	4-Chlorophenyl-phenylether	204	6.007	6.007	(1.067)	392614	2.50000	2.5000
96	4-Nitroaniline	138	6.018	6.018	(1.069)	229384	2.50000	2.5000
98	4,6-Dinitro-2-methylphenol	198	6.039	6.039	(0.900)	144430	2.50000	2.5000
99	N-Nitrosodiphenylamine	169	6.088	6.088	(0.907)	514311	2.50000	2.5000
100	1,2-Diphenylhydrazine	77	6.125	6.125	(0.912)	887096	2.50000	2.5000
106	4-Bromophenyl-phenylether	248	6.365	6.365	(0.948)	201022	2.50000	2.5000
107	Hexachlorobenzene	284	6.424	6.424	(0.957)	192717	2.50000	2.5000
212	Atrazine	200	6.456	6.456	(0.962)	148777	2.50000	2.5000
111	Pentachlorophenol	266	6.558	6.558	(0.977)	256610	5.00000	5.0000
115	Phenanthrene	178	6.729	6.729	(1.002)	1188736	2.50000	2.5000
116	Anthracene	178	6.766	6.766	(1.008)	1195602	2.50000	2.5000
119	Carbazole	167	6.868	6.868	(1.023)	1138001	2.50000	2.5000
120	Di-n-Butylphthalate	149	7.081	7.081	(1.055)	1277298	2.50000	2.5000
123	Fluoranthene	202	7.594	7.594	(1.131)	1202645	2.50000	2.5000
124	Benzidine	184	7.669	7.669	(0.885)	610932	2.50000	2.5000
125	Pyrene	202	7.770	7.770	(0.896)	1286750	2.50000	2.5000
131	Butylbenzylphthalate	149	8.187	8.187	(0.945)	535773	2.50000	2.5000
133	3,3'-Dimethoxybenzidine	244	8.577	8.577	(0.990)	223314	2.50000	2.5000
135	3,3'-Dichlorobenzidine	252	8.614	8.614	(0.994)	430834	2.50000	2.5000
136	Benzo(a)Anthracene	228	8.657	8.657	(0.999)	1219918	2.50000	2.5000
137	Chrysene	228	8.684	8.684	(1.002)	1168038	2.50000	2.5000

138	4,4'-Methylene bis(o-chloroan	231	8.609	8.609 (0.993)	206108	2.50000	2.5000
139	bis(2-ethylhexyl)Phthalate	149	8.598	8.598 (0.992)	757225	2.50000	2.5000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.138	9.138	(0.907)	1161250	2.50000	2.5000
141 Benzo(b)fluoranthene	252	9.635	9.635	(0.957)	987208	2.50000	2.5000
142 Benzo(k)fluoranthene	252	9.662	9.662	(0.959)	1240714	2.50000	2.5000
146 Benzo(a)pyrene	252	10.009	10.009	(0.994)	988785	2.50000	2.5000
149 Indeno(1,2,3-cd)pyrene	276	11.606	11.606	(1.152)	1033522	2.50000	2.5000
150 Dibenz(a,h)anthracene	278	11.617	11.617	(1.153)	879224	2.50000	2.5000
151 Benzo(g,h,i)perylene	276	12.071	12.071	(1.198)	866271	2.50000	2.5000
$ 154 Nitrobenzene-d5	82	3.844	3.844	(0.881)	462947	2.50000	2.5000
$ 155 2-Fluorobiphenyl	172	5.121	5.121	(0.910)	855469	2.50000	2.5000
$ 156 Terphenyl-d14	244	7.850	7.850	(0.906)	731933	2.50000	2.5000
$ 157 Phenol-d5	99	3.171	3.171	(0.914)	532813	2.50000	2.5000
$ 158 2-Fluorophenol	112	2.599	2.599	(0.749)	402360	2.50000	2.5000
$ 159 2,4,6-Tribromophenol	330	6.194	6.194	(1.101)	79571	2.50000	2.5000
$ 186 2-Chlorophenol-d4	132	3.315	3.315	(0.955)	401990	2.50000	2.5000
$ 187 1,2-Dichlorobenzene-d4	152	3.582	3.582	(1.032)	281123	2.50000	2.5000
M 195 Cresols, total	100				850896	2.50000	5.0000
101 Diphenylamine	169	6.088	6.088	(0.907)	514311	2.50000	2.5000

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp10.i
Lab File ID: 1SMM0308.D
Lab Smp Id: L5
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 15:11
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	285517	142759	571034	285517	0.00
2 Naphthalene-d8	1070563	535282	2141126	1070563	0.00
3 Acenaphthene-d10	588462	294231	1176924	588462	0.00
4 Phenanthrene-d10	921694	460847	1843388	921694	0.00
5 Chrysene-d12	1005531	502766	2011062	1005531	0.00
6 Perylene-d12	805300	402650	1610600	805300	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	0.00
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	0.00
5 Chrysene-d12	8.67	8.17	9.17	8.67	0.00
6 Perylene-d12	10.07	9.57	10.57	10.07	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMM0308.D

Page 1

Date : 08-MAR-2010 15:11

Client ID:

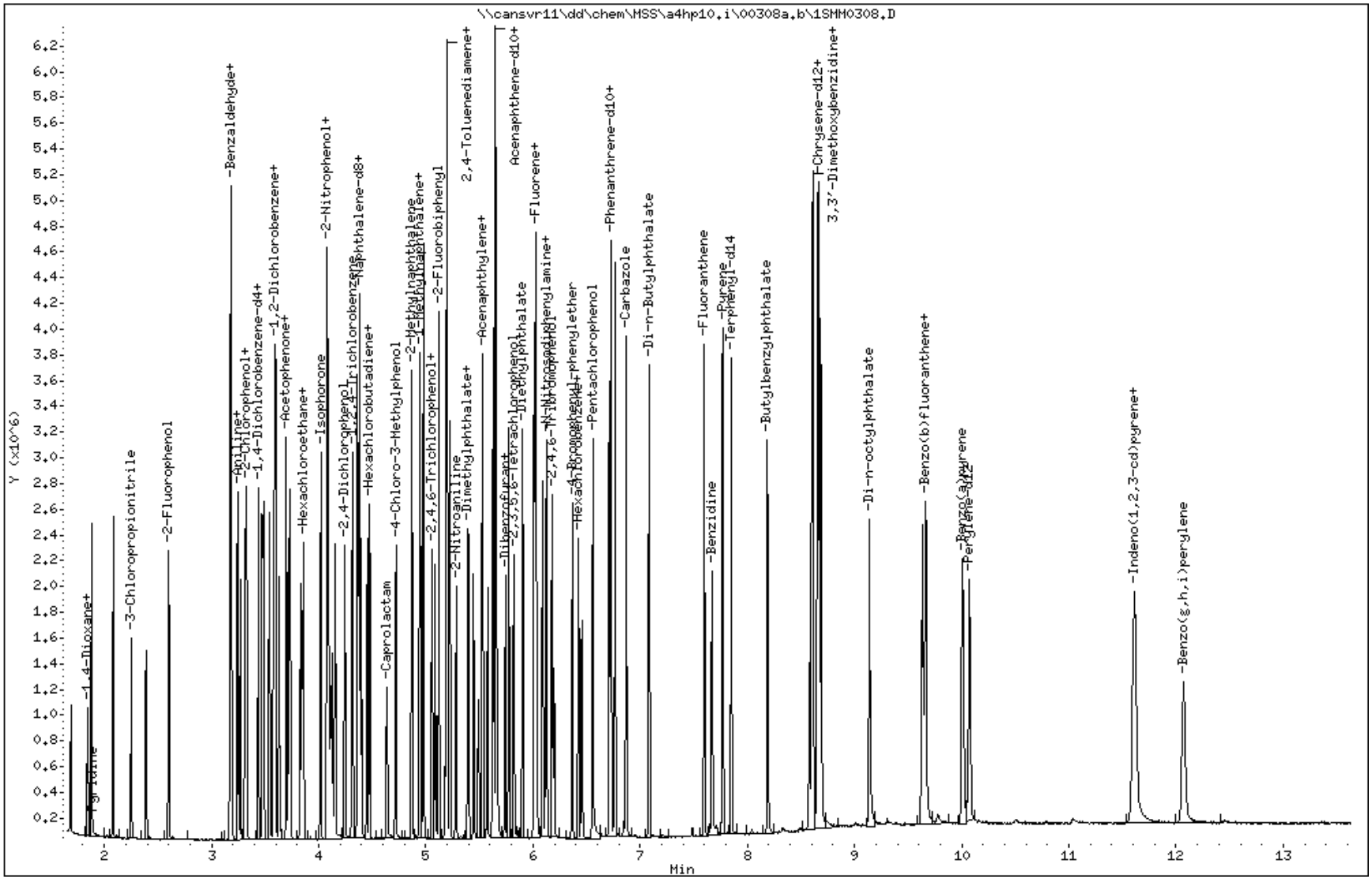
Instrument: a4hp10.i

Sample Info: L5,00308a.b,8270C-625,1-827042d.sub,1,,5

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp10.i Injection Date: 08-MAR-2010 18:08
Lab File ID: ICVTCL.D Init. Cal. Date(s): 08-MAR-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 15:11 17:49
Lab Sample ID: icvtcl Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
198 1,4-Dioxane	0.55653	0.54616	0.010	1.86369	50.00000	Averaged
9 Pyridine	1.40292	1.42430	0.010	-1.52364	50.00000	Averaged
10 N-Nitrosodimethylamine	0.78389	0.77363	0.010	1.30906	50.00000	Averaged
12 3-Chloropropionitrile	0.78299	0.76955	0.010	1.71686	50.00000	Averaged
209 Benzaldehyde	0.79058	0.63607	0.010	19.54329	50.00000	Averaged
21 Aniline	1.92810	1.92707	0.010	0.05356	50.00000	Averaged
22 Phenol	1.58380	1.55871	0.010	1.58365	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.26110	1.22348	0.010	2.98341	50.00000	Averaged
24 2-Chlorophenol	1.23139	1.21426	0.010	1.39133	50.00000	Averaged
26 1,3-Dichlorobenzene	1.30408	1.26040	0.010	3.34957	50.00000	Averaged
27 1,4-Dichlorobenzene	1.29213	1.25813	0.010	2.63130	20.00000	Averaged
28 1,2-Dichlorobenzene	1.22802	1.19599	0.010	2.60815	50.00000	Averaged
29 Benzyl Alcohol	0.80237	0.79746	0.010	0.61175	50.00000	Averaged
30 2-Methylphenol	1.13977	1.13733	0.010	0.21385	50.00000	Averaged
31 bis(2-Chloroisopropyl)ether	1.72516	1.61369	0.010	6.46163	50.00000	Averaged
37 Acetophenone	1.62932	1.58207	0.010	2.89978	50.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.86055	0.85482	0.050	0.66517	50.00000	Averaged
192 4-Methylphenol	1.19665	1.17856	0.010	1.51222	50.00000	Averaged
34 Hexachloroethane	0.45859	0.45024	0.010	1.82152	50.00000	Averaged
35 Nitrobenzene	0.33846	0.33582	0.010	0.78082	50.00000	Averaged
41 Isophorone	0.62941	0.62966	0.010	-0.03873	50.00000	Averaged
42 2-Nitrophenol	0.16416	0.17096	0.010	-4.14422	20.00000	Averaged
43 2,4-Dimethylphenol	0.30103	0.30701	0.010	-1.98721	50.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.35961	0.36038	0.010	-0.21448	50.00000	Averaged
46 2,4-Toluenediamene	0.09172	0.08235	0.010	10.21933	50.00000	Averaged
47 1,3,5-Trichlorobenzene	0.27522	0.27624	0.010	-0.37226	50.00000	Averaged
48 2,4-Dichlorophenol	0.23513	0.24011	0.010	-2.11844	20.00000	Averaged
49 Benzoic Acid	0.17414	0.20166	0.010	-15.80057	50.00000	Averaged
50 1,2,4-Trichlorobenzene	0.27251	0.26889	0.010	1.32840	50.00000	Averaged
51 Naphthalene	0.90951	0.91401	0.010	-0.49504	50.00000	Averaged
52 4-Chloroaniline	0.38423	0.37412	0.010	2.63106	50.00000	Averaged
56 Hexachlorobutadiene	0.13786	0.13860	0.010	-0.54010	20.00000	Averaged
210 Caprolactam	0.08723	0.09747	0.010	-11.73364	50.00000	Averaged
57 1,2,3-Trichlorobenzene	0.25462	0.24964	0.010	1.95806	50.00000	Averaged
59 4-Chloro-3-Methylphenol	0.24349	0.25111	0.010	-3.12901	20.00000	Averaged
62 2-Methylnaphthalene	0.50185	0.48683	0.010	2.99389	50.00000	Averaged
63 1-Methylnaphthalene	0.56953	0.56346	0.010	1.06555	50.00000	Averaged
64 Hexachlorocyclopentadiene	0.26958	0.28965	0.050	-7.44591	50.00000	Averaged
66 2,4,6-Trichlorophenol	0.30959	0.31739	0.010	-2.52038	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.32818	0.35651	0.010	-8.63340	50.00000	Averaged
211 1,1'-Biphenyl	1.31356	1.31699	0.010	-0.26112	50.00000	Averaged
68 1,2,3,5-Tetrachlorobenzene	0.47214	0.47055	0.010	0.33568	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp10.i Injection Date: 08-MAR-2010 18:08
Lab File ID: ICVTCL.D Init. Cal. Date(s): 08-MAR-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 15:11 17:49
Lab Sample ID: icvtcl Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
70 2-Chloronaphthalene	1.01667	1.00293	0.010	1.35183	50.00000	Averaged
73 2-Nitroaniline	0.29650	0.30734	0.010	-3.65782	50.00000	Averaged
74 1,2,3,4-Tetrachlorobenzene	0.43080	0.42606	0.010	1.10065	50.00000	Averaged
76 Dimethylphthalate	1.11300	1.13412	0.010	-1.89695	50.00000	Averaged
78 2,6-Dinitrotoluene	0.25305	0.27593	0.010	-9.04170	50.00000	Averaged
79 Acenaphthylene	1.61373	1.67886	0.010	-4.03601	50.00000	Averaged
80 1,2-Dinitrobenzene	0.12925	0.14115	0.010	-9.21293	50.00000	Averaged
81 3-Nitroaniline	0.28475	0.30170	0.010	-5.95311	50.00000	Averaged
82 Acenaphthene	1.01055	0.99234	0.010	1.80259	20.00000	Averaged
83 2,4-Dinitrophenol	0.16319	0.19716	0.050	-20.81784	50.00000	Averaged
85 4-Nitrophenol	0.13110	0.13245	0.050	-1.02435	50.00000	Averaged
86 Dibenzofuran	1.42733	1.41564	0.010	0.81932	50.00000	Averaged
87 2,4-Dinitrotoluene	0.33361	0.35756	0.010	-7.17899	50.00000	Averaged
91 2,3,5,6-Tetrachlorophenol	0.25932	0.27362	0.010	-5.51619	50.00000	Averaged
93 Diethylphthalate	1.06912	1.09447	0.010	-2.37167	50.00000	Averaged
94 Fluorene	1.15953	1.16724	0.010	-0.66507	50.00000	Averaged
95 4-Chlorophenyl-phenylether	0.53396	0.53418	0.010	-0.04247	50.00000	Averaged
96 4-Nitroaniline	0.29556	0.31169	0.010	-5.45808	50.00000	Averaged
98 4,6-Dinitro-2-methylphenol	0.12012	0.14268	0.010	-18.78296	50.00000	Averaged
99 N-Nitrosodiphenylamine	0.50505	0.48116	0.010	4.73129	20.00000	Averaged
100 1,2-Diphenylhydrazine	0.75944	0.77250	0.010	-1.71871	50.00000	Averaged
106 4-Bromophenyl-phenylether	0.18104	0.18377	0.010	-1.50320	50.00000	Averaged
107 Hexachlorobenzene	0.17737	0.17610	0.010	0.71529	50.00000	Averaged
212 Atrazine	0.12017	0.12819	0.010	-6.67149	50.00000	Averaged
111 Pentachlorophenol	0.11483	0.11870	0.010	-3.36693	20.00000	Averaged
115 Phenanthrene	1.04703	1.05581	0.010	-0.83844	50.00000	Averaged
116 Anthracene	1.03791	1.06275	0.010	-2.39387	50.00000	Averaged
119 Carbazole	0.99515	1.00807	0.010	-1.29856	50.00000	Averaged
120 Di-n-Butylphthalate	1.06845	1.16039	0.010	-8.60477	50.00000	Averaged
123 Fluoranthene	1.04080	1.06500	0.010	-2.32510	20.00000	Averaged
124 Benzidine	0.46267	0.56131	0.010	-21.32100	50.00000	Averaged
125 Pyrene	1.00074	1.03070	0.010	-2.99411	50.00000	Averaged
131 Butylbenzylphthalate	0.40933	0.43636	0.010	-6.60267	50.00000	Averaged
133 3,3'-Dimethoxybenzidine	0.15930	0.20348	0.010	-27.73042	50.00000	Averaged
135 3,3'-Dichlorobenzidine	0.32881	0.35320	0.010	-7.42003	50.00000	Averaged
136 Benzo(a)Anthracene	0.97156	0.98558	0.010	-1.44372	50.00000	Averaged
137 Chrysene	0.93308	0.93078	0.010	0.24684	50.00000	Averaged
138 4,4'-Methylene bis(o-chloro	0.15594	0.16903	0.010	-8.39957	50.00000	Averaged
139 bis(2-ethylhexyl)Phthalate	0.57900	0.61304	0.010	-5.87907	50.00000	Averaged
140 Di-n-octylphthalate	1.10880	1.21694	0.010	-9.75253	20.00000	Averaged
141 Benzo(b)fluoranthene	1.03066	1.10366	0.010	-7.08356	50.00000	Averaged
142 Benzo(k)fluoranthene	1.18917	1.17407	0.010	1.26938	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp10.i Injection Date: 08-MAR-2010 18:08
Lab File ID: ICVTCL.D Init. Cal. Date(s): 08-MAR-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 15:11 17:49
Lab Sample ID: icvtcl Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
146 Benzo(a)pyrene	0.98015	1.04506	0.010	-6.62234	20.00000	Averaged
149 Indeno(1,2,3-cd)pyrene	1.02355	1.11113	0.010	-8.55655	50.00000	Averaged
150 Dibenz(a,h)anthracene	0.80560	0.92265	0.010	-14.52867	50.00000	Averaged
151 Benzo(g,h,i)perylene	0.85041	0.89289	0.010	-4.99556	50.00000	Averaged
$ 154 Nitrobenzene-d5	0.33684	0.34020	0.010	-0.99788	50.00000	Averaged
$ 155 2-Fluorobiphenyl	1.17941	1.17471	0.010	0.39906	50.00000	Averaged
$ 156 Terphenyl-d14	0.58106	0.59106	0.010	-1.72178	50.00000	Averaged
$ 157 Phenol-d5	1.47673	1.47759	0.010	-0.05797	50.00000	Averaged
$ 158 2-Fluorophenol	1.12034	1.13164	0.010	-1.00885	50.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.10674	0.11170	0.010	-4.65400	50.00000	Averaged
$ 186 2-Chlorophenol-d4	1.11645	1.12180	0.010	-0.47877	50.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	0.78717	0.76351	0.010	3.00537	50.00000	Averaged
M 195 Cresols, total	2.33643	2.31589	0.010	0.87909	50.00000	Averaged
101 Diphenylamine	0.50505	0.48116	0.010	4.73129	50.00000	Averaged

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\ICVTCL.D
Lab Smp Id: icvtcl
Inj Date : 08-MAR-2010 18:08
Operator : 001710 Inst ID: a4hp10.i
Smp Info : icvtcl,00308a.b,8270C-625,1-827042d.sub,2
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 08:24 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 17:49 Cal File: 1SMH0308.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.475	3.475	(1.000)	416795	2.00000	
* 2	Naphthalene-d8	136	4.362	4.362	(1.000)	1543473	2.00000	
* 3	Acenaphthene-d10	164	5.628	5.628	(1.000)	822161	2.00000	
* 4	Phenanthrene-d10	188	6.713	6.713	(1.000)	1272646	2.00000	
* 5	Chrysene-d12	240	8.673	8.673	(1.000)	1413415	2.00000	
* 6	Perylene-d12	264	10.078	10.078	(1.000)	1128081	2.00000	
198	1,4-Dioxane	88	1.691	1.691	(0.487)	569087	5.00000	4.9068
9	Pyridine	79	1.883	1.883	(0.542)	1484103	5.00000	5.0762
10	N-Nitrosodimethylamine	74	1.846	1.846	(0.531)	806112	5.00000	4.9345
12	3-Chloropropionitrile	54	2.257	2.257	(0.650)	801859	5.00000	4.9142
209	Benzaldehyde	77	3.187	3.187	(0.917)	662780	5.00000	4.0228
21	Aniline	93	3.251	3.251	(0.935)	2007982	5.00000	4.9973
22	Phenol	94	3.187	3.187	(0.917)	1624161	5.00000	4.9208
23	bis(2-Chloroethyl)ether	93	3.272	3.272	(0.942)	1274849	5.00000	4.8508
24	2-Chlorophenol	128	3.331	3.331	(0.959)	1265241	5.00000	4.9304
26	1,3-Dichlorobenzene	146	3.438	3.438	(0.989)	1313319	5.00000	4.8325
27	1,4-Dichlorobenzene	146	3.486	3.486	(1.003)	1310958	5.00000	4.8684
28	1,2-Dichlorobenzene	146	3.593	3.593	(1.034)	1246206	5.00000	4.8696
29	Benzyl Alcohol	108	3.545	3.545	(1.020)	830944	5.00000	4.9694
30	2-Methylphenol	108	3.604	3.604	(1.037)	1185084	5.00000	4.9893
31	bis(2-Chloroisopropyl)ether	45	3.630	3.630	(1.045)	1681442	5.00000	4.6769
37	Acetophenone	105	3.737	3.737	(1.075)	1648502	5.00000	4.8550
32	N-Nitroso-di-n-propylamine	70	3.726	3.726	(1.072)	890714	5.00000	4.9667
192	4-Methylphenol	108	3.705	3.705	(1.066)	1228043	5.00000	4.9244
34	Hexachloroethane	117	3.828	3.828	(1.101)	469143	5.00000	4.9089
35	Nitrobenzene	77	3.865	3.865	(0.886)	1295810	5.00000	4.9610
41	Isophorone	82	4.026	4.026	(0.923)	2429648	5.00000	5.0019
42	2-Nitrophenol	139	4.084	4.084	(0.936)	659678	5.00000	5.2072
43	2,4-Dimethylphenol	107	4.084	4.084	(0.936)	1184649	5.00000	5.0994
44	bis(2-Chloroethoxy)methane	93	4.154	4.154	(0.952)	1390579	5.00000	5.0107

46	2,4-Toluenediamene	121	5.185	5.185 (1.189)	317760	5.00000	4.4890
47	1,3,5-Trichlorobenzene	180	4.095	4.095 (0.939)	1065921	5.00000	5.0186
48	2,4-Dichlorophenol	162	4.245	4.245 (0.973)	926509	5.00000	5.1059

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49	Benzoic Acid	122	4.164	4.164	(0.955)	1556250	10.0000	11.580(H)
50	1,2,4-Trichlorobenzene	180	4.314	4.314	(0.989)	1037547	5.00000	4.9336
51	Naphthalene	128	4.378	4.378	(1.004)	3526871	5.00000	5.0248
52	4-Chloroaniline	127	4.400	4.400	(1.009)	1443612	5.00000	4.8684
56	Hexachlorobutadiene	225	4.453	4.453	(1.021)	534815	5.00000	5.0270
210	Caprolactam	113	4.656	4.656	(1.067)	376108	5.00000	5.5867
57	1,2,3-Trichlorobenzene	180	4.480	4.480	(1.027)	963270	5.00000	4.9021
59	4-Chloro-3-Methylphenol	107	4.725	4.725	(1.083)	968949	5.00000	5.1564
62	2-Methylnaphthalene	142	4.870	4.870	(1.116)	1878511	5.00000	4.8503
63	1-Methylnaphthalene	142	4.944	4.944	(1.133)	2174210	5.00000	4.9467
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	595343	5.00000	5.3723
66	2,4,6-Trichlorophenol	196	5.062	5.062	(0.899)	652360	5.00000	5.1260
67	2,4,5-Trichlorophenol	196	5.089	5.089	(0.904)	732780	5.00000	5.4317
211	1,1'-Biphenyl	154	5.201	5.201	(0.924)	2706954	5.00000	5.0130
68	1,2,3,5-Tetrachlorobenzene	216	4.976	4.976	(0.884)	967174	5.00000	4.9832
70	2-Chloronaphthalene	162	5.228	5.228	(0.929)	2061415	5.00000	4.9324
73	2-Nitroaniline	65	5.286	5.286	(0.939)	631714	5.00000	5.1829
74	1,2,3,4-Tetrachlorobenzene	216	5.195	5.195	(0.923)	875731	5.00000	4.9450
76	Dimethylphthalate	163	5.399	5.399	(0.959)	2331063	5.00000	5.0948
78	2,6-Dinitrotoluene	165	5.452	5.452	(0.969)	567138	5.00000	5.4521
79	Acenaphthylene	152	5.532	5.532	(0.983)	3450735	5.00000	5.2018
80	1,2-Dinitrobenzene	168	5.500	5.500	(0.977)	290126	5.00000	5.4606
81	3-Nitroaniline	138	5.580	5.580	(0.991)	620125	5.00000	5.2976
82	Acenaphthene	153	5.655	5.655	(1.005)	2039649	5.00000	4.9099
83	2,4-Dinitrophenol	184	5.655	5.655	(1.005)	810483	10.0000	12.082
85	4-Nitrophenol	109	5.671	5.671	(1.008)	272230	5.00000	5.0512
86	Dibenzofuran	168	5.778	5.778	(1.027)	2909708	5.00000	4.9590
87	2,4-Dinitrotoluene	165	5.746	5.746	(1.021)	734931	5.00000	5.3589
91	2,3,5,6-Tetrachlorophenol	232	5.826	5.826	(1.035)	562400	5.00000	5.2758
93	Diethylphthalate	149	5.906	5.906	(1.049)	2249579	5.00000	5.1186
94	Fluorene	166	6.029	6.029	(1.071)	2399152	5.00000	5.0332
95	4-Chlorophenyl-phenylether	204	6.008	6.008	(1.067)	1097962	5.00000	5.0021
96	4-Nitroaniline	138	6.024	6.024	(1.070)	640648	5.00000	5.2729
98	4,6-Dinitro-2-methylphenol	198	6.040	6.040	(0.900)	453948	5.00000	5.9391
99	N-Nitrosodiphenylamine	169	6.093	6.093	(0.908)	1530858	5.00000	4.7634
100	1,2-Diphenylhydrazine	77	6.125	6.125	(0.912)	2457785	5.00000	5.0859
106	4-Bromophenyl-phenylether	248	6.365	6.365	(0.948)	584671	5.00000	5.0752
107	Hexachlorobenzene	284	6.430	6.430	(0.958)	560285	5.00000	4.9642
212	Atrazine	200	6.456	6.456	(0.962)	407857	5.00000	5.3336
111	Pentachlorophenol	266	6.563	6.563	(0.978)	755320	10.0000	10.337
115	Phenanthrene	178	6.729	6.729	(1.002)	3359172	5.00000	5.0419
116	Anthracene	178	6.766	6.766	(1.008)	3381268	5.00000	5.1197
119	Carbazole	167	6.873	6.873	(1.024)	3207291	5.00000	5.0649
120	Di-n-Butylphthalate	149	7.081	7.081	(1.055)	3691908	5.00000	5.4302
123	Fluoranthene	202	7.600	7.600	(1.132)	3388413	5.00000	5.1162
124	Benzidine	184	7.669	7.669	(0.884)	1983411	5.00000	6.0660
125	Pyrene	202	7.770	7.770	(0.896)	3642016	5.00000	5.1497
131	Butylbenzylphthalate	149	8.192	8.192	(0.945)	1541877	5.00000	5.3301
133	3,3'-Dimethoxybenzidine	244	8.582	8.582	(0.990)	719006	5.00000	6.3865
135	3,3'-Dichlorobenzidine	252	8.620	8.620	(0.994)	1248063	5.00000	5.3710
136	Benzo(a)Anthracene	228	8.663	8.663	(0.999)	3482601	5.00000	5.0722
137	Chrysene	228	8.695	8.695	(1.002)	3288951	5.00000	4.9876

138	4,4'-Methylene bis(o-chloroan	231	8.615	8.615 (0.993)	597285	5.00000	5.4200
139	bis(2-ethylhexyl)Phthalate	149	8.604	8.604 (0.992)	2166197	5.00000	5.2940

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.143	9.143	(0.907)	3432015	5.00000	5.4876
141 Benzo(b)fluoranthene	252	9.640	9.640	(0.957)	3112556	5.00000	5.3542
142 Benzo(k)fluoranthene	252	9.672	9.672	(0.960)	3311124	5.00000	4.9365
146 Benzo(a)pyrene	252	10.020	10.020	(0.994)	2947288	5.00000	5.3311
149 Indeno(1,2,3-cd)pyrene	276	11.622	11.622	(1.153)	3133603	5.00000	5.4278
150 Dibenz(a,h)anthracene	278	11.638	11.638	(1.155)	2602054	5.00000	5.7264
151 Benzo(g,h,i)perylene	276	12.092	12.092	(1.200)	2518135	5.00000	5.2498
$ 154 Nitrobenzene-d5	82	3.849	3.849	(0.882)	1312734	5.00000	5.0499
$ 155 2-Fluorobiphenyl	172	5.121	5.121	(0.910)	2414493	5.00000	4.9800
$ 156 Terphenyl-d14	244	7.851	7.851	(0.905)	2088540	5.00000	5.0861
$ 157 Phenol-d5	99	3.176	3.176	(0.914)	1539629	5.00000	5.0029
$ 158 2-Fluorophenol	112	2.605	2.605	(0.749)	1179155	5.00000	5.0504
$ 159 2,4,6-Tribromophenol	330	6.200	6.200	(1.102)	229596	5.00000	5.2327
$ 186 2-Chlorophenol-d4	132	3.320	3.320	(0.955)	1168899	5.00000	5.0239
$ 187 1,2-Dichlorobenzene-d4	152	3.582	3.582	(1.031)	795571	5.00000	4.8497
M 195 Cresols, total	100				2413127	5.00000	9.9137
101 Diphenylamine	169	6.093	6.093	(0.908)	1530858	5.00000	4.7634

QC Flag Legend

H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp10.i
Lab File ID: ICVTCL.D
Lab Smp Id: icvtcl
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 17:49
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	391286	195643	782572	416795	6.52
2 Naphthalene-d8	1471864	735932	2943728	1543473	4.87
3 Acenaphthene-d10	794066	397033	1588132	822161	3.54
4 Phenanthrene-d10	1245056	622528	2490112	1272646	2.22
5 Chrysene-d12	1387226	693613	2774452	1413415	1.89
6 Perylene-d12	1100387	550194	2200774	1128081	2.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.48	2.98	3.98	3.48	0.00
2 Naphthalene-d8	4.36	3.86	4.86	4.36	0.00
3 Acenaphthene-d10	5.63	5.13	6.13	5.63	0.00
4 Phenanthrene-d10	6.71	6.21	7.21	6.71	0.00
5 Chrysene-d12	8.66	8.16	9.16	8.67	0.13
6 Perylene-d12	10.07	9.57	10.57	10.08	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\ICVTCL.D

Date : 08-MAR-2010 18:08

Client ID:

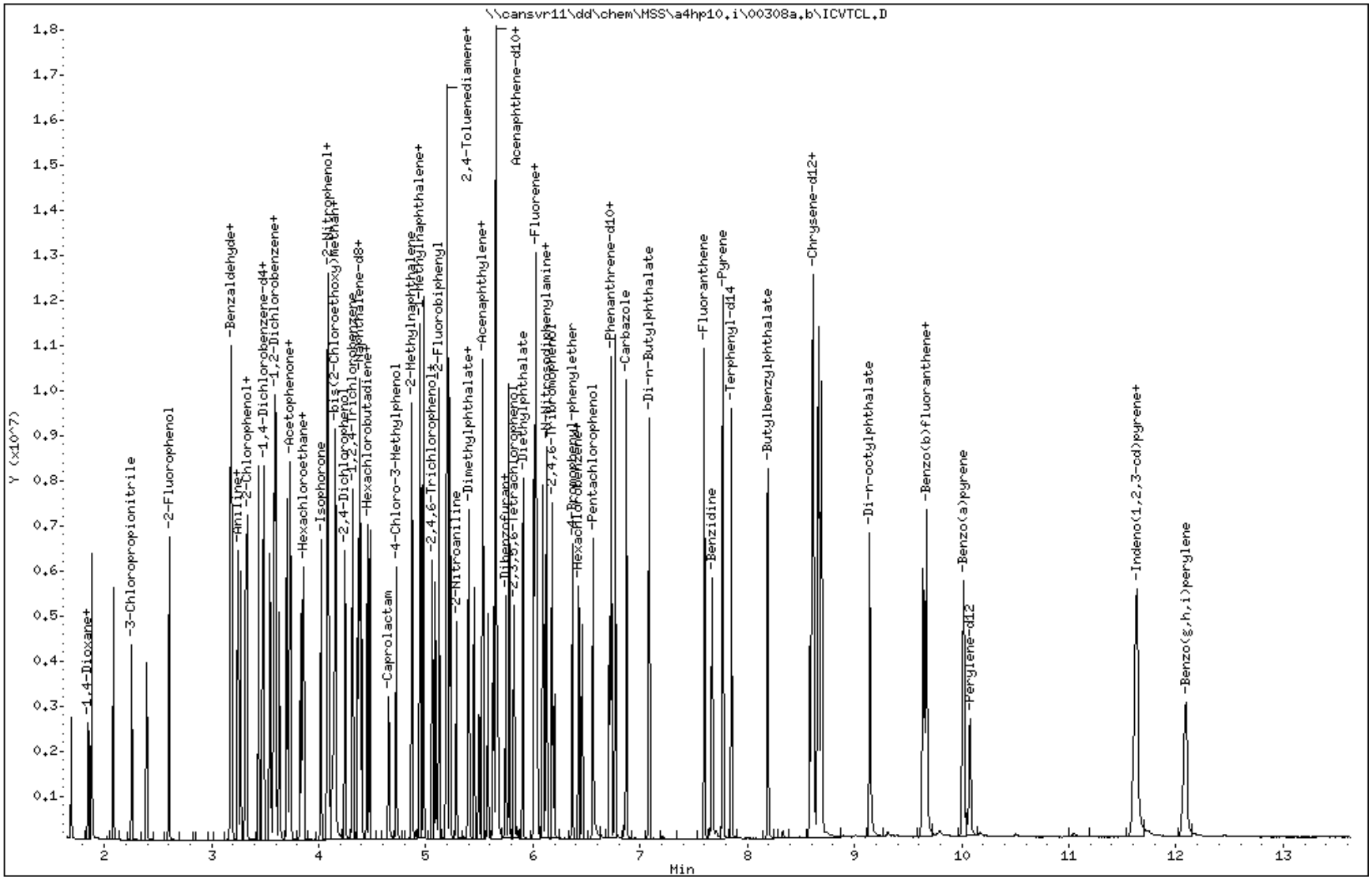
Instrument: a4hp10.i

Sample Info: icvtcl,00308a.b,8270C-625,1-827042d.sub,2

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



Report Date: 12-Mar-2010 12:59

Calibration History

Method : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Start Cal Date: 08-MAR-2010 15:11
End Cal Date : 08-MAR-2010 17:49
Last Cal Level: 2
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
08-MAR-2010 16:30	1-pah	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SLL0308.D
Cal Level: 2 , Cal Amount: 0.25000		
08-MAR-2010 16:10	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SL0308.D
Cal Level: 3 , Cal Amount: 0.50000		
08-MAR-2010 15:50	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SML0308.D
Cal Level: 4 , Cal Amount: 1.00000		
08-MAR-2010 15:30	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SM0308.D
Cal Level: 5 , Cal Amount: 2.50000		
08-MAR-2010 15:11	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMM0308.D
Cal Level: 6 , Cal Amount: 5.00000		
08-MAR-2010 17:49	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SMH0308.D
Cal Level: 7 , Cal Amount: 7.50000		
08-MAR-2010 17:29	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SH0308.D
Cal Level: 8 , Cal Amount: 10.00000		

08-MAR-2010 17:09	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHH0308.D

Cal Level: 9 , Cal Amount: 12.50000

08-MAR-2010 16:49	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00308a.b\1SHHH0308.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

12-MAR-2010 09:19	1-827042d	\\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\1SMH0312.D

TestAmerica North Canton

OK mw 3/12/10

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp10.i Injection Date: 12-MAR-2010 09:19
Lab File ID: 1SMH0312.D Init. Cal. Date(s): 08-MAR-2010 08-MAR-2010
Analysis Type: Init. Cal. Times: 15:11 17:49
Lab Sample ID: L6 Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
198 1,4-Dioxane	0.55653	0.45416	0.45416	0.010	18.39433	50.00000	Averaged
9 Pyridine	1.40292	1.30439	1.30439	0.010	7.02371	50.00000	Averaged
10 N-Nitrosodimethylamine	0.78389	0.74025	0.74025	0.010	5.56755	50.00000	Averaged
12 3-Chloropropionitrile	0.78299	0.77649	0.77649	0.010	0.83071	50.00000	Averaged
209 Benzaldehyde	0.79058	0.76942	0.76942	0.010	2.67623	50.00000	Averaged
21 Aniline	1.92810	1.97353	1.97353	0.010	-2.35597	50.00000	Averaged
22 Phenol	1.58380	1.61053	1.61053	0.010	-1.68799	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.26110	1.28504	1.28504	0.010	-1.89816	50.00000	Averaged
24 2-Chlorophenol	1.23139	1.20448	1.20448	0.010	2.18567	50.00000	Averaged
26 1,3-Dichlorobenzene	1.30408	1.27874	1.27874	0.010	1.94308	50.00000	Averaged
27 1,4-Dichlorobenzene	1.29213	1.27022	1.27022	0.010	1.69558	20.00000	Averaged
28 1,2-Dichlorobenzene	1.22802	1.22810	1.22810	0.010	-0.00640	50.00000	Averaged
29 Benzyl Alcohol	0.80237	0.71706	0.71706	0.010	10.63253	50.00000	Averaged
30 2-Methylphenol	1.13977	1.11205	1.11205	0.010	2.43166	50.00000	Averaged
31 bis(2-Chloroisopropyl)ether	1.72516	1.87867	1.87867	0.010	-8.89835	50.00000	Averaged
37 Acetophenone	1.62932	1.72591	1.72591	0.010	-5.92792	50.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.86055	0.94151	0.94151	0.050	-9.40845	50.00000	Averaged
192 4-Methylphenol	1.19665	1.25077	1.25077	0.010	-4.52205	50.00000	Averaged
34 Hexachloroethane	0.45859	0.44339	0.44339	0.010	3.31569	50.00000	Averaged
35 Nitrobenzene	0.33846	0.34679	0.34679	0.010	-2.46260	50.00000	Averaged
41 Isophorone	0.62941	0.66584	0.66584	0.010	-5.78789	50.00000	Averaged
42 2-Nitrophenol	0.16416	0.17956	0.17956	0.010	-9.38177	20.00000	Averaged
43 2,4-Dimethylphenol	0.30103	0.31929	0.31929	0.010	-6.06582	50.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.35961	0.37689	0.37689	0.010	-4.80672	50.00000	Averaged
46 2,4-Toluenediamene	5.00000	4.54569	0.08002	0.010	9.08620	0.000e+000	Quadratic
47 1,3,5-Trichlorobenzene	0.27522	0.27901	0.27901	0.010	-1.37731	50.00000	Averaged
48 2,4-Dichlorophenol	0.23513	0.24719	0.24719	0.010	-5.12765	20.00000	Averaged
49 Benzoic Acid	10.00000	9.83646	0.19006	0.010	1.63538	0.000e+000	Quadratic
50 1,2,4-Trichlorobenzene	0.27251	0.26988	0.26988	0.010	0.96473	50.00000	Averaged
51 Naphthalene	0.90951	0.92865	0.92865	0.010	-2.10519	50.00000	Averaged
52 4-Chloroaniline	0.38423	0.38678	0.38678	0.010	-0.66413	50.00000	Averaged
56 Hexachlorobutadiene	0.13786	0.13778	0.13778	0.010	0.05260	20.00000	Averaged
210 Caprolactam	0.09397	0.10168	0.10168	0.010	-8.19872	50.00000	Averaged
57 1,2,3-Trichlorobenzene	0.25462	0.25297	0.25297	0.010	0.64937	50.00000	Averaged
59 4-Chloro-3-Methylphenol	0.24349	0.25942	0.25942	0.010	-6.54389	20.00000	Averaged
62 2-Methylnaphthalene	0.50185	0.51037	0.51037	0.010	-1.69663	50.00000	Averaged
63 1-Methylnaphthalene	0.56953	0.58286	0.58286	0.010	-2.34136	50.00000	Averaged
64 Hexachlorocyclopentadiene	0.26958	0.29181	0.29181	0.050	-8.24888	50.00000	Averaged
66 2,4,6-Trichlorophenol	0.30959	0.31328	0.31328	0.010	-1.19363	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.32818	0.34813	0.34813	0.010	-6.07970	50.00000	Averaged
211 1,1'-Biphenyl	1.31356	1.34562	1.34562	0.010	-2.44053	50.00000	Averaged
68 1,2,3,5-Tetrachlorobenzene	0.47214	0.47420	0.47420	0.010	-0.43699	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp10.i
Lab File ID: 1SMH0312.D
Analysis Type:
Lab Sample ID: L6
Method: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m

Injection Date: 12-MAR-2010 09:19
Init. Cal. Date(s): 08-MAR-2010 08-MAR-2010
Init. Cal. Times: 15:11 17:49
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
70 2-Chloronaphthalene	1.01667	0.97788	0.97788	0.010	3.81562	50.00000	Averaged
73 2-Nitroaniline	0.29650	0.31425	0.31425	0.010	-5.98744	50.00000	Averaged
74 1,2,3,4-Tetrachlorobenzene	0.43080	0.43413	0.43413	0.010	-0.77133	50.00000	Averaged
76 Dimethylphthalate	1.11300	1.12244	1.12244	0.010	-0.84761	50.00000	Averaged
78 2,6-Dinitrotoluene	0.25305	0.27074	0.27074	0.010	-6.99397	50.00000	Averaged
79 Acenaphthylene	1.61373	1.65611	1.65611	0.010	-2.62627	50.00000	Averaged
80 1,2-Dinitrobenzene	0.12925	0.13743	0.13743	0.010	-6.33331	50.00000	Averaged
81 3-Nitroaniline	0.28475	0.28878	0.28878	0.010	-1.41357	50.00000	Averaged
82 Acenaphthene	1.01055	1.02181	1.02181	0.010	-1.11399	20.00000	Averaged
83 2,4-Dinitrophenol	10.00000	10.00015	0.19493	0.050	-0.00152	0.000e+000	Quadratic
85 4-Nitrophenol	0.13537	0.14521	0.14521	0.050	-7.26515	50.00000	Averaged
86 Dibenzofuran	1.42733	1.41409	1.41409	0.010	0.92801	50.00000	Averaged
87 2,4-Dinitrotoluene	0.33361	0.35345	0.35345	0.010	-5.94727	50.00000	Averaged
91 2,3,5,6-Tetrachlorophenol	0.25932	0.24928	0.24928	0.010	3.87010	50.00000	Averaged
93 Diethylphthalate	1.06912	1.06944	1.06944	0.010	-0.03023	50.00000	Averaged
94 Fluorene	1.15953	1.18536	1.18536	0.010	-2.22791	50.00000	Averaged
95 4-Chlorophenyl-phenylether	0.53396	0.53496	0.53496	0.010	-0.18726	50.00000	Averaged
96 4-Nitroaniline	0.29556	0.32043	0.32043	0.010	-8.41648	50.00000	Averaged
98 4,6-Dinitro-2-methylphenol	5.00000	4.96620	0.13431	0.010	0.67610	0.000e+000	Quadratic
99 N-Nitrosodiphenylamine	0.50505	0.54111	0.54111	0.010	-7.13829	20.00000	Averaged
100 1,2-Diphenylhydrazine	0.75944	0.76737	0.76737	0.010	-1.04386	50.00000	Averaged
106 4-Bromophenyl-phenylether	0.18104	0.17755	0.17755	0.010	1.92721	50.00000	Averaged
107 Hexachlorobenzene	0.17737	0.16737	0.16737	0.010	5.63524	50.00000	Averaged
212 Atrazine	0.12017	0.12487	0.12487	0.010	-3.90678	50.00000	Averaged
111 Pentachlorophenol	10.00000	9.10782	0.10949	0.010	8.92175	20.00000	Quadratic
115 Phenanthrene	1.04703	1.02238	1.02238	0.010	2.35371	50.00000	Averaged
116 Anthracene	1.03791	1.03313	1.03313	0.010	0.46033	50.00000	Averaged
119 Carbazole	0.99515	0.99015	0.99015	0.010	0.50176	50.00000	Averaged
120 Di-n-Butylphthalate	1.06845	1.13752	1.13752	0.010	-6.46457	50.00000	Averaged
123 Fluoranthene	1.04080	1.04331	1.04331	0.010	-0.24128	20.00000	Averaged
124 Benzidine	5.00000	5.07858	0.54461	0.010	-1.57165	0.000e+000	Quadratic
125 Pyrene	1.00074	0.99476	0.99476	0.010	0.59771	50.00000	Averaged
131 Butylbenzylphthalate	0.40933	0.42541	0.42541	0.010	-3.92829	50.00000	Averaged
133 3,3'-Dimethoxybenzidine	5.00000	4.42357	0.17600	0.010	11.52856	0.000e+000	Quadratic
135 3,3'-Dichlorobenzidine	0.32881	0.35636	0.35636	0.010	-8.37880	50.00000	Averaged
136 Benzo(a)Anthracene	0.97156	0.94317	0.94317	0.010	2.92236	50.00000	Averaged
137 Chrysene	0.93308	0.87531	0.87531	0.010	6.19231	50.00000	Averaged
138 4,4'-Methylene bis(o-chloro	5.00000	5.41079	0.17589	0.010	-8.21573	0.000e+000	Quadratic
139 bis(2-ethylhexyl)Phthalate	0.57900	0.61552	0.61552	0.010	-6.30787	50.00000	Averaged
140 Di-n-octylphthalate	5.00000	5.18246	1.23785	0.010	-3.64924	0.000e+000	Quadratic
141 Benzo(b)fluoranthene	1.03066	1.08821	1.08821	0.010	-5.58442	50.00000	Averaged
142 Benzo(k)fluoranthene	1.18917	1.09931	1.09931	0.010	7.55616	50.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp10.i
Lab File ID: 1SMH0312.D
Analysis Type:
Lab Sample ID: L6
Method: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m

Injection Date: 12-MAR-2010 09:19
Init. Cal. Date(s): 08-MAR-2010 08-MAR-2010
Init. Cal. Times: 15:11 17:49
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
146 Benzo(a)pyrene	0.98015	1.00286	1.00286	0.010	-2.31642	20.00000	Averaged
149 Indeno(1,2,3-cd)pyrene	1.02355	1.06111	1.06111	0.010	-3.66998	50.00000	Averaged
150 Dibenz(a,h)anthracene	5.00000	5.03565	0.90589	0.010	-0.71290	0.000e+000	Quadratic
151 Benzo(g,h,i)perylene	0.87220	0.86324	0.86324	0.010	1.02705	50.00000	Averaged
$ 154 Nitrobenzene-d5	0.33684	0.33680	0.33680	0.010	0.01325	50.00000	Averaged
$ 155 2-Fluorobiphenyl	1.17941	1.16609	1.16609	0.010	1.12993	50.00000	Averaged
$ 156 Terphenyl-d14	0.58106	0.57971	0.57971	0.010	0.23207	50.00000	Averaged
$ 157 Phenol-d5	1.47673	1.52713	1.52713	0.010	-3.41245	50.00000	Averaged
$ 158 2-Fluorophenol	1.12034	1.03551	1.03551	0.010	-7.57191	50.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.11023	0.10893	0.10893	0.010	1.17802	50.00000	Averaged
$ 186 2-Chlorophenol-d4	1.11645	1.12646	1.12646	0.010	-0.89663	50.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	0.78717	0.78533	0.78533	0.010	0.23425	50.00000	Averaged
M 195 Cresols, total	2.33642	2.36282	2.36282	0.010	-1.12984	50.00000	Averaged
101 Diphenylamine	0.50505	0.54111	0.54111	0.010	-7.13829	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\1SMH0312.D
Date : 12-MAR-2010 09:19
Client ID:
Sample Info: L6,00312a.b,8270C-625,1-8270420,sub,2
Column phase: db5.625
Instrument: a4hp10.i
Operator: 001710
Column diameter: 0.32
Page 1
Y (x10^7)
Min
-1,4-Dioxane
-Pyridine+
-3-Chloropropionitrile
-2-Fluorophenol
-Benzaldehyde+
-Aniline+
-2-Chlorophenol+
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-bis(2-Chloroethoxy)methan+
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Naphthalene-d8+
-Hexachlorobutadiene+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-2-Nitroaniline
-Dimethylphthalate
2,4-Toluenediamene+
-2,6-Dinitrotoluene+
-Dibenzofuran+
Acenaphthene-d10+
-Diethylphthalate
-N-Nitrosodiphenylamine+
Fluorene+
-2,4,6-Tribromophenol
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
-Phenanthrene-d10+
-Anthracene
-Carbazole
-Di-n-Butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\1SMH0312.D

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\1SMH0312.D
Lab Smp Id: L6
Inj Date : 12-MAR-2010 09:19
Operator : 001710 Inst ID: a4hp10.i
Smp Info : L6,00312a.b,8270C-625,1-827042d.sub,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Meth Date : 12-Mar-2010 09:46 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 16:10 Cal File: 1SL0308.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.397	3.397	(1.000)	337451	2.00000	
* 2	Naphthalene-d8	136	4.290	4.290	(1.000)	1316432	2.00000	
* 3	Acenaphthene-d10	164	5.556	5.556	(1.000)	724165	2.00000	
* 4	Phenanthrene-d10	188	6.635	6.635	(1.000)	1142407	2.00000	
* 5	Chrysene-d12	240	8.590	8.590	(1.000)	1292171	2.00000	
* 6	Perylene-d12	264	9.947	9.947	(1.000)	1026541	2.00000	
198	1,4-Dioxane	88	1.592	1.592	(0.469)	383140	5.00000	4.0803
9	Pyridine	79	1.789	1.789	(0.527)	1100417	5.00000	4.6488
10	N-Nitrosodimethylamine	74	1.763	1.763	(0.519)	624493	5.00000	4.7216
12	3-Chloropropionitrile	54	2.174	2.174	(0.640)	655065	5.00000	4.9585
209	Benzaldehyde	77	3.109	3.109	(0.915)	649104	5.00000	4.8662
21	Aniline	93	3.173	3.173	(0.934)	1664922	5.00000	5.1178
22	Phenol	94	3.114	3.114	(0.917)	1358688	5.00000	5.0844
23	bis(2-Chloroethyl)ether	93	3.194	3.194	(0.940)	1084095	5.00000	5.0949
24	2-Chlorophenol	128	3.253	3.253	(0.958)	1016129	5.00000	4.8907
26	1,3-Dichlorobenzene	146	3.360	3.360	(0.989)	1078780	5.00000	4.9028
27	1,4-Dichlorobenzene	146	3.408	3.408	(1.003)	1071595	5.00000	4.9152
28	1,2-Dichlorobenzene	146	3.515	3.515	(1.035)	1036056	5.00000	5.0003
29	Benzyl Alcohol	108	3.472	3.472	(1.022)	604929	5.00000	4.4684
30	2-Methylphenol	108	3.531	3.531	(1.039)	938158	5.00000	4.8784
31	bis(2-Chloroisopropyl)ether	45	3.558	3.558	(1.047)	1584899	5.00000	5.4449
37	Acetophenone	105	3.665	3.665	(1.079)	1456022	5.00000	5.2964
32	N-Nitroso-di-n-propylamine	70	3.654	3.654	(1.075)	794284	5.00000	5.4704
192	4-Methylphenol	108	3.632	3.632	(1.069)	1055182	5.00000	5.2261
34	Hexachloroethane	117	3.750	3.750	(1.104)	374053	5.00000	4.8342
35	Nitrobenzene	77	3.787	3.787	(0.883)	1141328	5.00000	5.1231
41	Isophorone	82	3.948	3.948	(0.920)	2191344	5.00000	5.2894
42	2-Nitrophenol	139	4.006	4.006	(0.934)	590937	5.00000	5.4691
43	2,4-Dimethylphenol	107	4.012	4.012	(0.935)	1050797	5.00000	5.3033
44	bis(2-Chloroethoxy)methane	93	4.081	4.081	(0.951)	1240377	5.00000	5.2403
46	2,4-Toluenediamene	121	5.107	5.107	(1.191)	263355	5.00000	4.5457
47	1,3,5-Trichlorobenzene	180	4.017	4.017	(0.936)	918230	5.00000	5.0689
48	2,4-Dichlorophenol	162	4.172	4.172	(0.973)	813508	5.00000	5.2564

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	4.092	4.092	(0.954)	1251033	10.0000	9.8365
50 1,2,4-Trichlorobenzene	180	4.241	4.241	(0.989)	888188	5.00000	4.9518
51 Naphthalene	128	4.306	4.306	(1.004)	3056273	5.00000	5.1052
52 4-Chloroaniline	127	4.322	4.322	(1.007)	1272929	5.00000	5.0332
56 Hexachlorobutadiene	225	4.375	4.375	(1.020)	453456	5.00000	4.9974
210 Caprolactam	113	4.583	4.583	(1.068)	334628	5.00000	5.4099(Q)
57 1,2,3-Trichlorobenzene	180	4.402	4.402	(1.026)	832542	5.00000	4.9675
59 4-Chloro-3-Methylphenol	107	4.653	4.653	(1.085)	853784	5.00000	5.3272
62 2-Methylnaphthalene	142	4.797	4.797	(1.118)	1679657	5.00000	5.0848
63 1-Methylnaphthalene	142	4.867	4.867	(1.134)	1918247	5.00000	5.1171
64 Hexachlorocyclopentadiene	237	4.904	4.904	(0.883)	528301	5.00000	5.4124
66 2,4,6-Trichlorophenol	196	4.989	4.989	(0.898)	567167	5.00000	5.0597
67 2,4,5-Trichlorophenol	196	5.016	5.016	(0.903)	630265	5.00000	5.3040
211 1,1'-Biphenyl	154	5.123	5.123	(0.922)	2436132	5.00000	5.1220
68 1,2,3,5-Tetrachlorobenzene	216	4.904	4.904	(0.883)	858498	5.00000	5.0218
70 2-Chloronaphthalene	162	5.150	5.150	(0.927)	1770360	5.00000	4.8092
73 2-Nitroaniline	65	5.208	5.208	(0.938)	568923	5.00000	5.2994
74 1,2,3,4-Tetrachlorobenzene	216	5.123	5.123	(0.922)	785950	5.00000	5.0386
76 Dimethylphthalate	163	5.326	5.326	(0.959)	2032072	5.00000	5.0424
78 2,6-Dinitrotoluene	165	5.379	5.379	(0.968)	490158	5.00000	5.3497
79 Acenaphthylene	152	5.454	5.454	(0.982)	2998245	5.00000	5.1313
80 1,2-Dinitrobenzene	168	5.422	5.422	(0.976)	248807	5.00000	5.3167
81 3-Nitroaniline	138	5.508	5.508	(0.991)	522808	5.00000	5.0707
82 Acenaphthene	153	5.577	5.577	(1.004)	1849896	5.00000	5.0557
83 2,4-Dinitrophenol	184	5.582	5.582	(1.005)	705790	10.0000	10.000
85 4-Nitrophenol	109	5.604	5.604	(1.009)	262887	5.00000	5.3632
86 Dibenzofuran	168	5.700	5.700	(1.026)	2560082	5.00000	4.9536
87 2,4-Dinitrotoluene	165	5.673	5.673	(1.021)	639893	5.00000	5.2974
91 2,3,5,6-Tetrachlorophenol	232	5.748	5.748	(1.035)	451300	5.00000	4.8065
93 Diethylphthalate	149	5.833	5.833	(1.050)	1936125	5.00000	5.0015
94 Fluorene	166	5.951	5.951	(1.071)	2145997	5.00000	5.1114
95 4-Chlorophenyl-phenylether	204	5.935	5.935	(1.068)	968492	5.00000	5.0094
96 4-Nitroaniline	138	5.951	5.951	(1.071)	580117	5.00000	5.4208
98 4,6-Dinitro-2-methylphenol	198	5.967	5.967	(0.899)	383578	5.00000	4.9662
99 N-Nitrosodiphenylamine	169	6.020	6.020	(0.907)	1545406	5.00000	5.3569
100 1,2-Diphenylhydrazine	77	6.053	6.053	(0.912)	2191625	5.00000	5.0522
106 4-Bromophenyl-phenylether	248	6.293	6.293	(0.948)	507100	5.00000	4.9036
107 Hexachlorobenzene	284	6.352	6.352	(0.957)	478024	5.00000	4.7182
212 Atrazine	200	6.389	6.389	(0.963)	356629	5.00000	5.1953
111 Pentachlorophenol	266	6.485	6.485	(0.977)	625416	10.0000	9.1078
115 Phenanthrene	178	6.656	6.656	(1.003)	2919948	5.00000	4.8823
116 Anthracene	178	6.694	6.694	(1.009)	2950632	5.00000	4.9770
119 Carbazole	167	6.795	6.795	(1.024)	2827898	5.00000	4.9749
120 Di-n-Butylphthalate	149	7.014	7.014	(1.057)	3248780	5.00000	5.3232
123 Fluoranthene	202	7.522	7.522	(1.134)	2979710	5.00000	5.0121
124 Benzidine	184	7.596	7.596	(0.884)	1759335	5.00000	5.0786
125 Pyrene	202	7.693	7.693	(0.896)	3213484	5.00000	4.9701
131 Butylbenzylphthalate	149	8.120	8.120	(0.945)	1374250	5.00000	5.1964
133 3,3'-Dimethoxybenzidine	244	8.505	8.505	(0.990)	568540	5.00000	4.4236
135 3,3'-Dichlorobenzidine	252	8.542	8.542	(0.994)	1151187	5.00000	5.4189
136 Benzo(a)Anthracene	228	8.579	8.579	(0.999)	3046829	5.00000	4.8539
137 Chrysene	228	8.611	8.611	(1.002)	2827610	5.00000	4.6904
138 4,4'-Methylene bis(o-chloroan	231	8.537	8.537	(0.994)	568208	5.00000	5.4108
139 bis(2-ethylhexyl)Phthalate	149	8.531	8.531	(0.993)	1988399	5.00000	5.3154

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
140 Di-n-octylphthalate	149	9.050	9.050	(0.910)	3176758	5.00000	5.1825
141 Benzo(b)fluoranthene	252	9.525	9.525	(0.958)	2792738	5.00000	5.2792
142 Benzo(k)fluoranthene	252	9.557	9.557	(0.961)	2821224	5.00000	4.6222
146 Benzo(a)pyrene	252	9.888	9.888	(0.994)	2573687	5.00000	5.1158
149 Indeno(1,2,3-cd)pyrene	276	11.427	11.427	(1.149)	2723184	5.00000	5.1835
150 Dibenz(a,h)anthracene	278	11.443	11.443	(1.150)	2324825	5.00000	5.0356
151 Benzo(g,h,i)perylene	276	11.876	11.876	(1.194)	2215380	5.00000	4.9486
$ 154 Nitrobenzene-d5	82	3.771	3.771	(0.879)	1108425	5.00000	4.9993
$ 155 2-Fluorobiphenyl	172	5.048	5.048	(0.909)	2111096	5.00000	4.9435
$ 156 Terphenyl-d14	244	7.778	7.778	(0.905)	1872708	5.00000	4.9884
$ 157 Phenol-d5	99	3.104	3.104	(0.914)	1288325	5.00000	5.1706
$ 158 2-Fluorophenol	112	2.527	2.527	(0.744)	873582	5.00000	4.6214
$ 159 2,4,6-Tribromophenol	330	6.122	6.122	(1.102)	197213	5.00000	4.9411
$ 186 2-Chlorophenol-d4	132	3.243	3.243	(0.954)	950315	5.00000	5.0448
$ 187 1,2-Dichlorobenzene-d4	152	3.504	3.504	(1.031)	662523	5.00000	4.9883
M 195 Cresols, total	100				1993340	5.00000	10.104
101 Diphenylamine	169	6.020	6.020	(0.907)	1545406	5.00000	5.3569

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

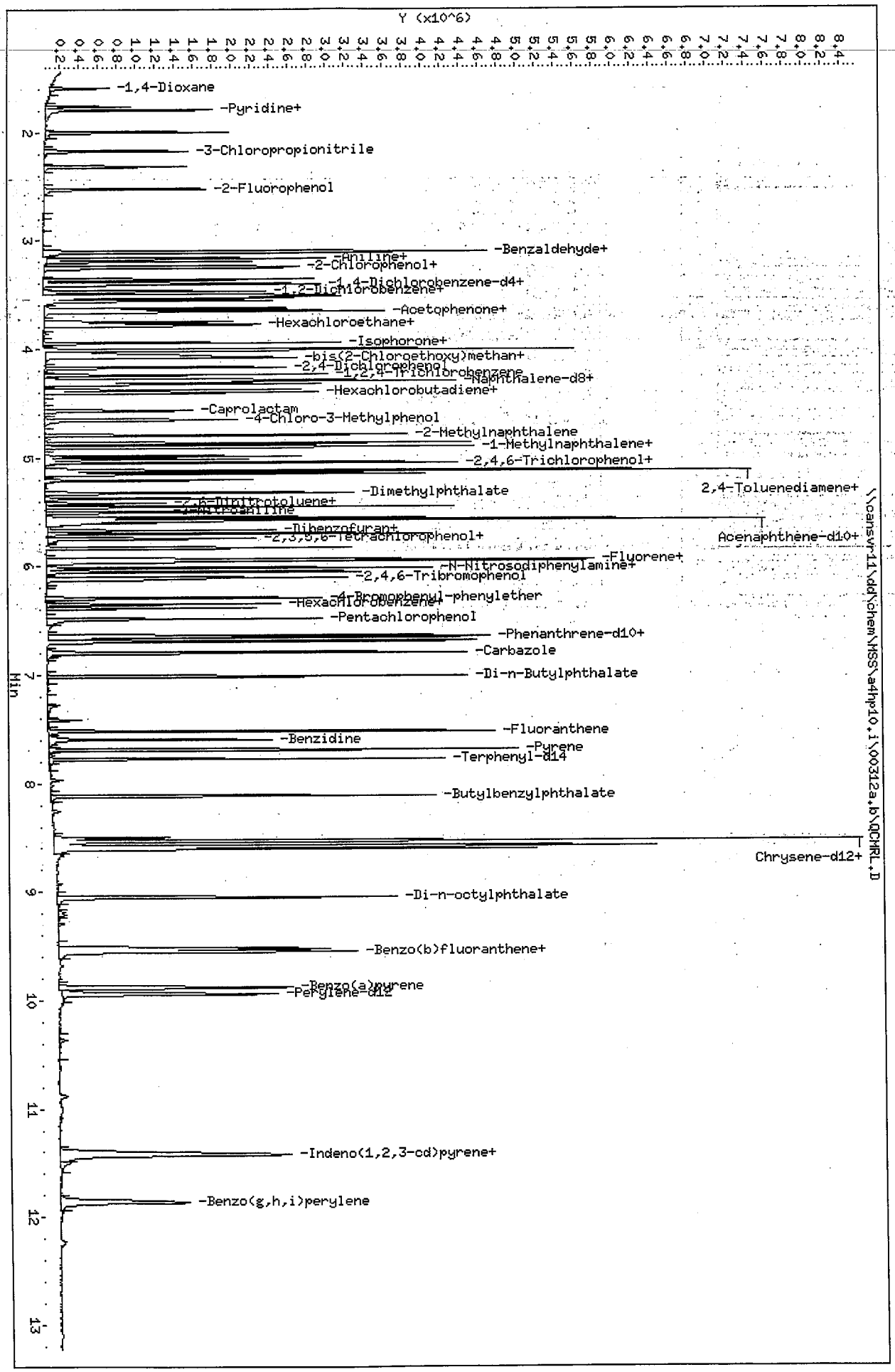
RECOVERY REPORT

OKMW 3/12/10

Client Name: Client SDG: SDGa00195
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: icvtcl
Level: LOW Operator: 001710
Data Type: MS DATA SampleType: mrl
SpikeList File: qcmrl.spk Quant Type: ISTD
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82	Acenaphthene	10.000	10.209	102.09	70-130
79	Acenaphthylene	10.000	10.278	102.78	70-130
116	Anthracene	10.000	10.140	101.41	70-130
136	Benzo(a)Anthracene	10.000	9.7041	97.04	70-130
141	Benzo(b)fluoranthe	10.000	10.520	105.20	70-130
151	Benzo(g,h,i)peryle	10.000	9.9074	99.07	70-130
146	Benzo(a)pyrene	10.000	10.053	100.53	70-130
29	Benzyl Alcohol	10.000	8.9677	89.68	70-130
44	bis(2-Chloroethoxy	10.000	10.330	103.30	70-130
23	bis(2-Chloroethyl)	10.000	10.525	105.25	70-130
31	bis(2-Chloroisopro	10.000	11.548	115.48	70-130
139	bis(2-ethylhexyl)P	10.000	10.654	106.54	70-130
106	4-Bromophenyl-phen	10.000	9.8807	98.81	70-130
131	Butylbenzylphthala	10.000	10.402	104.02	70-130
52	4-Chloroaniline	10.000	10.084	100.85	70-130
70	2-Chloronaphthalen	10.000	9.8444	98.44	70-130
95	4-Chlorophenyl-phe	10.000	10.028	100.28	70-130
137	Chrysene	10.000	10.065	100.65	70-130
150	Dibenz(a,h)anthrac	10.000	10.455	104.55	70-130
86	Dibenzofuran	10.000	10.014	100.14	70-130
120	Di-n-Butylphthalat	10.000	10.765	107.65	70-130
28	1,2-Dichlorobenzen	10.000	10.260	102.60	70-130
26	1,3-Dichlorobenzen	10.000	9.8001	98.00	70-130
27	1,4-Dichlorobenzen	10.000	9.8800	98.80	70-130
135	3,3'-Dichlorobenzi	10.000	10.268	102.68	70-130
93	Diethylphthalate	10.000	10.113	101.13	70-130
76	Dimethylphthalate	10.000	10.124	101.24	70-130
87	2,4-Dinitrotoluene	10.000	10.749	107.49	70-130
78	2,6-Dinitrotoluene	10.000	10.663	106.63	70-130
140	Di-n-octylphthalat	10.000	10.699	106.99	70-130
123	Fluoranthene	10.000	10.206	102.06	70-130
94	Fluorene	10.000	10.423	104.23	70-130
107	Hexachlorobenzene	10.000	9.6574	96.57	70-130
56	Hexachlorobutadien	10.000	10.188	101.88	70-130
64	Hexachlorocyclopen	10.000	10.269	102.69	70-130
34	Hexachloroethane	10.000	10.092	100.92	70-130
149	Indeno(1,2,3-cd)py	10.000	10.448	104.49	70-130
41	Isophorone	10.000	10.691	106.91	70-130
63	1-Methylnaphthalen	10.000	10.304	103.05	70-130
62	2-Methylnaphthalen	10.000	10.206	102.06	70-130

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51	Naphthalene	10.000	10.241	102.41	70-130
73	2-Nitroaniline	10.000	10.568	105.69	70-130
81	3-Nitroaniline	10.000	10.337	103.37	70-130
96	4-Nitroaniline	10.000	10.870	108.70	70-130
35	Nitrobenzene	10.000	10.420	104.20	70-130
32	N-Nitroso-di-n-pro	10.000	11.338	113.38	70-130
99	N-Nitrosodiphenyla	10.000	10.834	108.34	70-130
115	Phenanthrene	10.000	10.095	100.95	70-130
125	Pyrene	10.000	10.102	101.02	70-130
50	1,2,4-Trichloroben	10.000	9.9287	99.29	70-130
49	Benzoic Acid	20.000	21.882	109.41	70-130
59	4-Chloro-3-Methylp	10.000	10.551	105.51	70-130
24	2-Chlorophenol	10.000	10.205	102.05	70-130
48	2,4-Dichlorophenol	10.000	10.580	105.80	70-130
43	2,4-Dimethylphenol	10.000	10.437	104.37	70-130
98	4,6-Dinitro-2-meth	10.000	10.134	101.34	70-130
83	2,4-Dinitrophenol	20.000	18.475	92.37	70-130
30	2-Methylphenol	10.000	11.087	110.87	70-130
192	4-Methylphenol	10.000	10.815	108.15	70-130
42	2-Nitrophenol	10.000	10.565	105.65	70-130
85	4-Nitrophenol	10.000	11.172	111.72	70-130
111	Pentachlorophenol	20.000	17.617	88.09	70-130
22	Phenol	10.000	10.450	104.50	70-130
67	2,4,5-Trichlorophe	10.000	10.104	101.05	70-130
66	2,4,6-Trichlorophe	10.000	10.169	101.69	70-130
119	Carbazole	10.000	10.142	101.42	70-130
142	Benzo(k)fluoranthe	10.000	9.3252	93.25	70-130
37	Acetophenone	10.000	10.902	109.02	70-130
209	Benzaldehyde	10.000	11.534	115.34	70-130
210	Caprolactam	10.000	11.075	110.75	70-130
211	1,1'-Biphenyl	10.000	10.089	100.89	70-130
212	Atrazine	10.000	11.012	110.13	70-130
21	Aniline	10.000	10.768	107.68	70-130
10	N-Nitrosodimethyla	10.000	9.7470	97.47	70-130
80	1,2-Dinitrobenzene	10.000	10.537	105.37	70-130
91	2,3,5,6-Tetrachlor	10.000	9.7630	97.63	70-130



Data File: \\cansvr11\dd\chem\MSS\a4hp10,i\00312a,b\QCHRL,D
Date : 12-MAR-2010 09:39
Client ID:
Sample Info: icvtcl,00312a,b,8270C-625,1-827042d,sub
Volume Injected (uL): 0.5
Column phase: db5,625

\\cansvr11\dd\chem\MSS\a4hp10,i\00312a,b\QCHRL,D
Instrument: a4hp10,i
Operator: 001710
Column diameter: 0.32

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\QCMRL.D
Lab Smp Id: icvtcl
Inj Date : 12-MAR-2010 09:39
Operator : 001710 Inst ID: a4hp10.i
Smp Info : icvtcl,00312a.b,8270C-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Meth Date : 12-Mar-2010 09:46 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 16:10 Cal File: 1SL0308.D
Als bottle: 3 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.397	3.397	(1.000)	313823	2.00000	
* 2	Naphthalene-d8	136	4.284	4.290	(1.000)	1279398	2.00000	
* 3	Acenaphthene-d10	164	5.550	5.556	(1.000)	712355	2.00000	
* 4	Phenanthrene-d10	188	6.635	6.635	(1.000)	1119146	2.00000	
* 5	Chrysene-d12	240	8.585	8.590	(1.000)	1271788	2.00000	
* 6	Perylene-d12	264	9.942	9.947	(1.000)	1016623	2.00000	
9	Pyridine	79	1.789	1.789	(0.527)	509635	2.31510	9.2604
10	N-Nitrosodimethylamine	74	1.757	1.763	(0.517)	299723	2.43674	9.7470
11	Ethyl methacrylate	69	Compound Not Detected.					
12	3-Chloropropionitrile	54	2.174	2.174	(0.640)	317943	2.58784	10.351
13	Malononitrile	66	Compound Not Detected.					
209	Benzaldehyde	77	3.104	3.109	(0.914)	357698	2.88348	11.534
21	Aniline	93	3.168	3.173	(0.932)	814408	2.69189	10.768
22	Phenol	94	3.114	3.114	(0.917)	649266	2.61257	10.450
23	bis(2-Chloroethyl)ether	93	3.194	3.194	(0.940)	520681	2.63128	10.525
24	2-Chlorophenol	128	3.253	3.253	(0.958)	492953	2.55126	10.205
26	1,3-Dichlorobenzene	146	3.360	3.360	(0.989)	501336	2.45002	9.8001
27	1,4-Dichlorobenzene	146	3.408	3.408	(1.003)	500793	2.47000	9.8800
28	1,2-Dichlorobenzene	146	3.515	3.515	(1.035)	494256	2.56503	10.260
29	Benzyl Alcohol	108	3.467	3.472	(1.020)	282261	2.24193	8.9677

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
30 2-Methylphenol	108	3.526	3.531	(1.038)	495723	2.77184	11.087
31 bis(2-Chloroisopropyl)ether	45	3.558	3.558	(1.047)	781528	2.88709	11.548
37 Acetophenone	105	3.659	3.665	(1.077)	696827	2.72561	10.902
32 N-Nitroso-di-n-propylamine	70	3.648	3.654	(1.074)	382750	2.83456	11.338
192 4-Methylphenol	108	3.632	3.632	(1.069)	507688	2.70379	10.815
34 Hexachloroethane	117	3.750	3.750	(1.104)	181543	2.52289	10.092
35 Nitrobenzene	77	3.787	3.787	(0.884)	564009	2.60498	10.420
41 Isophorone	82	3.948	3.948	(0.921)	1076133	2.67272	10.691
42 2-Nitrophenol	139	4.006	4.006	(0.935)	277351	2.64117	10.565
43 2,4-Dimethylphenol	107	4.006	4.012	(0.935)	502448	2.60922	10.437
44 bis(2-Chloroethoxy)methane	93	4.081	4.081	(0.953)	594084	2.58253	10.330
46 2,4-Toluenediamene	121	5.107	5.107	(1.192)	103677	1.61482	6.4593
47 1,3,5-Trichlorobenzene	180	4.017	4.017	(0.938)	443775	2.52066	10.083
48 2,4-Dichlorophenol	162	4.172	4.172	(0.974)	397821	2.64488	10.580
49 Benzoic Acid	122	4.065	4.092	(0.949)	614404	5.47064	21.882
50 1,2,4-Trichlorobenzene	180	4.236	4.241	(0.989)	432698	2.48218	9.9287
51 Naphthalene	128	4.300	4.306	(1.004)	1489536	2.56017	10.241
52 4-Chloroaniline	127	4.322	4.322	(1.009)	619675	2.52114	10.084
56 Hexachlorobutadiene	225	4.375	4.375	(1.021)	224613	2.54703	10.188
210 Caprolactam	113	4.567	4.583	(1.066)	166438	2.76870	11.075(Q)
57 1,2,3-Trichlorobenzene	180	4.402	4.402	(1.027)	406539	2.49591	9.9836
59 4-Chloro-3-Methylphenol	107	4.647	4.653	(1.085)	410862	2.63778	10.551
62 2-Methylnaphthalene	142	4.792	4.797	(1.118)	819116	2.55149	10.206
63 1-Methylnaphthalene	142	4.866	4.867	(1.136)	938557	2.57614	10.304
64 Hexachlorocyclopentadiene	237	4.904	4.904	(0.884)	246497	2.56723	10.269
66 2,4,6-Trichlorophenol	196	4.984	4.989	(0.898)	280333	2.54230	10.169
67 2,4,5-Trichlorophenol	196	5.016	5.016	(0.904)	295281	2.52613	10.104
211 1,1'-Biphenyl	154	5.123	5.123	(0.923)	1180067	2.52225	10.089
68 1,2,3,5-Tetrachlorobenzene	216	4.904	4.904	(0.884)	421859	2.50861	10.034
70 2-Chloronaphthalene	162	5.150	5.150	(0.928)	891204	2.46111	9.8444
73 2-Nitroaniline	65	5.208	5.208	(0.938)	279025	2.64214	10.568
74 1,2,3,4-Tetrachlorobenzene	216	5.118	5.123	(0.922)	382870	2.49519	9.9808
76 Dimethylphthalate	163	5.326	5.326	(0.960)	1003327	2.53093	10.124
78 2,6-Dinitrotoluene	165	5.374	5.379	(0.968)	240270	2.66584	10.663
79 Acenaphthylene	152	5.454	5.454	(0.983)	1476851	2.56944	10.278
80 1,2-Dinitrobenzene	168	5.422	5.422	(0.977)	121269	2.63431	10.537
81 3-Nitroaniline	138	5.502	5.508	(0.991)	262092	2.58416	10.337
82 Acenaphthene	153	5.577	5.577	(1.005)	918691	2.55237	10.209
83 2,4-Dinitrophenol	184	5.577	5.582	(1.005)	291943	4.61871	18.475(Q)
85 4-Nitrophenol	109	5.598	5.604	(1.009)	134671	2.79302	11.172
86 Dibenzofuran	168	5.700	5.700	(1.027)	1272681	2.50339	10.014
87 2,4-Dinitrotoluene	165	5.668	5.673	(1.021)	319301	2.68716	10.749
91 2,3,5,6-Tetrachlorophenol	232	5.748	5.748	(1.036)	225434	2.44075	9.7630
93 Diethylphthalate	149	5.833	5.833	(1.051)	962708	2.52815	10.113
94 Fluorene	166	5.951	5.951	(1.072)	1076195	2.60581	10.423
95 4-Chlorophenyl-phenylether	204	5.935	5.935	(1.069)	476783	2.50697	10.028
96 4-Nitroaniline	138	5.946	5.951	(1.071)	286078	2.71754	10.870
98 4,6-Dinitro-2-methylphenol	198	5.967	5.967	(0.899)	177016	2.53341	10.134
99 N-Nitrosodiphenylamine	169	6.015	6.020	(0.907)	765483	2.70858	10.834
100 1,2-Diphenylhydrazine	77	6.052	6.053	(0.912)	1095505	2.57788	10.312
106 4-Bromophenyl-phenylether	248	6.293	6.293	(0.948)	250247	2.47018	9.8807
107 Hexachlorobenzene	284	6.352	6.352	(0.957)	239626	2.41434	9.6574
212 Atrazine	200	6.384	6.389	(0.962)	185138	2.75313	11.012
111 Pentachlorophenol	266	6.485	6.485	(0.977)	274688	4.40433	17.617

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
115 Phenanthrene	178	6.651	6.656	(1.002)	1478675	2.52381	10.095
116 Anthracene	178	6.688	6.694	(1.008)	1472373	2.53515	10.140
119 Carbazole	167	6.795	6.795	(1.024)	1411919	2.53551	10.142
120 Di-n-Butylphthalate	149	7.014	7.014	(1.057)	1609051	2.69128	10.765
123 Fluoranthene	202	7.522	7.522	(1.134)	1486072	2.55162	10.206
124 Benzidine	184	7.596	7.596	(0.885)	747161	2.36457	9.4583
125 Pyrene	202	7.692	7.693	(0.896)	1607117	2.52547	10.102
131 Butylbenzylphthalate	149	8.115	8.120	(0.945)	676893	2.60054	10.402
133 3,3'-Dimethoxybenzidine	244	8.505	8.505	(0.991)	229260	1.99455	7.9782
135 3,3'-Dichlorobenzidine	252	8.537	8.542	(0.994)	536739	2.56707	10.268
136 Benzo(a)Anthracene	228	8.579	8.579	(0.999)	1498821	2.42603	9.7041
137 Chrysene	228	8.606	8.611	(1.002)	1492981	2.51622	10.065
138 4,4'-Methylene bis(o-chloroan	231	8.531	8.537	(0.994)	265560	2.68279	10.731
139 bis(2-ethylhexyl)Phthalate	149	8.526	8.531	(0.993)	980643	2.66347	10.654
140 Di-n-octylphthalate	149	9.049	9.050	(0.910)	1537567	2.67474	10.699
141 Benzo(b)fluoranthene	252	9.520	9.525	(0.958)	1377853	2.63002	10.520
142 Benzo(k)fluoranthene	252	9.546	9.557	(0.960)	1409198	2.33130	9.3252
146 Benzo(a)pyrene	252	9.883	9.888	(0.994)	1252133	2.51320	10.053
149 Indeno(1,2,3-cd)pyrene	276	11.411	11.427	(1.148)	1359044	2.61214	10.448
150 Dibenz(a,h)anthracene	278	11.427	11.443	(1.149)	1136092	2.61373	10.455
151 Benzo(g,h,i)perylene	276	11.859	11.876	(1.193)	1098112	2.47686	9.9074
198 1,4-Dioxane	88	1.592	1.592	(0.469)	178306	2.04185	8.1674
101 Diphenylamine	169	6.015	6.020	(0.907)	765483	2.70858	10.834

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

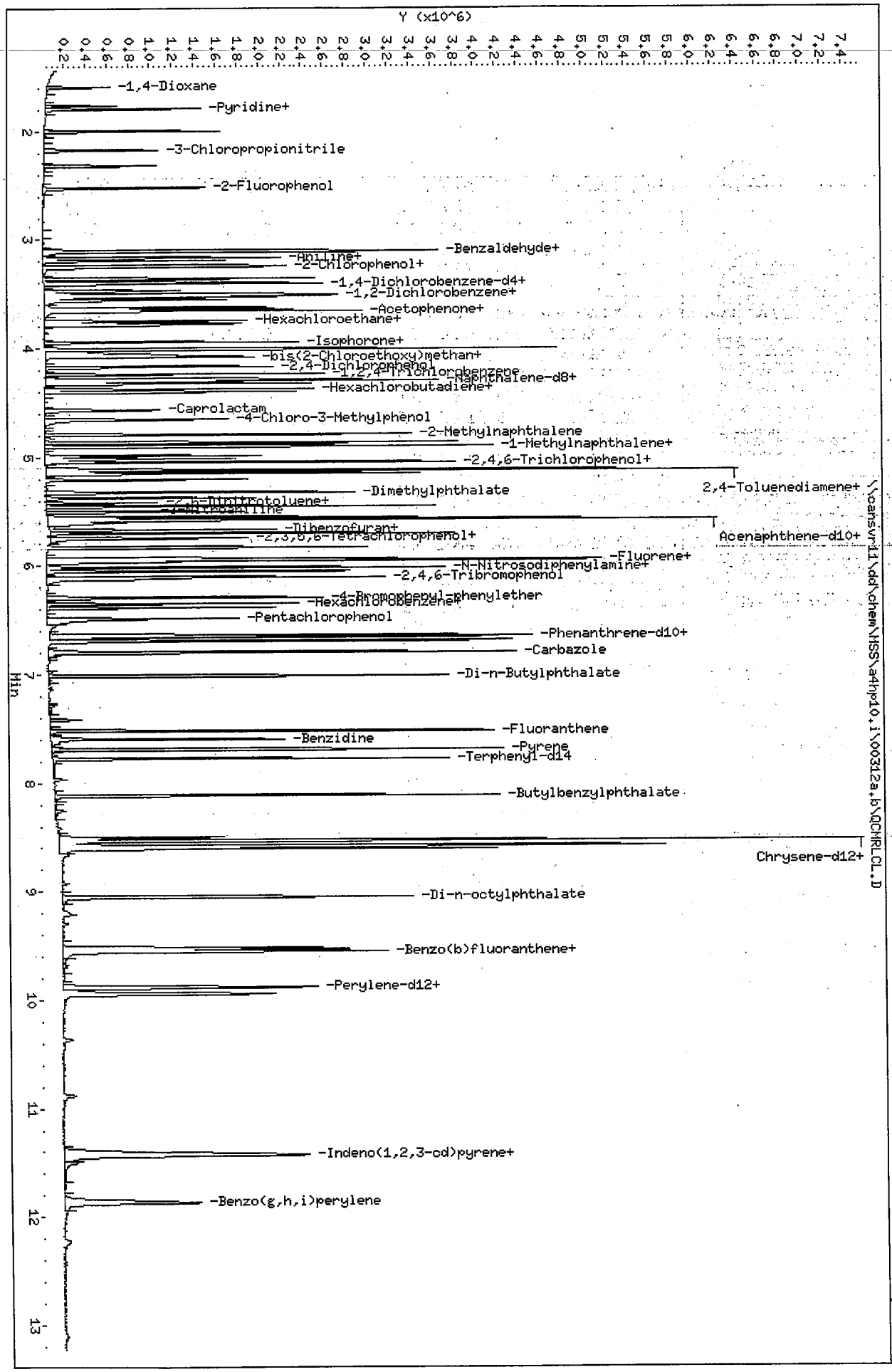
RECOVERY REPORT

OK MW 3/12/10

Client Name: Client SDG: SDGa00195
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: qcmrlcl
Level: LOW Operator: 001710
Data Type: MS DATA SampleType: mrl
SpikeList File: qcmrl.spk Quant Type: ISTD
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82	Acenaphthene	10.000	10.189	101.89	70-130
79	Acenaphthylene	10.000	10.434	104.34	70-130
116	Anthracene	10.000	10.251	102.51	70-130
136	Benzo(a)Anthracene	10.000	10.230	102.30	70-130
141	Benzo(b)fluoranthe	10.000	11.189	111.89	70-130
151	Benzo(g,h,i)peryle	10.000	10.373	103.73	70-130
146	Benzo(a)pyrene	10.000	10.466	104.66	70-130
29	Benzyl Alcohol	10.000	6.4101	64.10*	70-130
44	bis(2-Chloroethoxy	10.000	9.4714	94.71	70-130
23	bis(2-Chloroethyl)	10.000	9.3678	93.68	70-130
31	bis(2-Chloroisopro	10.000	7.5987	75.99	70-130
139	bis(2-ethylhexyl)P	10.000	11.274	112.74	70-130
106	4-Bromophenyl-phen	10.000	9.9793	99.79	70-130
131	Butylbenzylphthala	10.000	11.744	117.44	70-130
52	4-Chloroaniline	10.000	9.9672	99.67	70-130
70	2-Chloronaphthalen	10.000	9.8205	98.21	70-130
95	4-Chlorophenyl-phe	10.000	10.726	107.26	70-130
137	Chrysene	10.000	10.311	103.11	70-130
150	Dibenz(a,h)anthrac	10.000	10.756	107.56	70-130
86	Dibenzofuran	10.000	10.344	103.44	70-130
120	Di-n-Butylphthalat	10.000	11.426	114.26	70-130
28	1,2-Dichlorobenzen	10.000	10.362	103.62	70-130
26	1,3-Dichlorobenzen	10.000	10.273	102.73	70-130
27	1,4-Dichlorobenzen	10.000	10.237	102.37	70-130
135	3,3'-Dichlorobenzi	10.000	10.648	106.48	70-130
93	Diethylphthalate	10.000	11.138	111.38	70-130
76	Dimethylphthalate	10.000	10.709	107.09	70-130
87	2,4-Dinitrotoluene	10.000	11.377	113.77	70-130
78	2,6-Dinitrotoluene	10.000	11.232	112.32	70-130
140	Di-n-octylphthalat	10.000	11.676	116.76	70-130
123	Fluoranthene	10.000	10.544	105.44	70-130
94	Fluorene	10.000	10.512	105.12	70-130
107	Hexachlorobenzene	10.000	9.8496	98.50	70-130
56	Hexachlorobutadien	10.000	11.060	110.60	70-130
64	Hexachlorocyclopen	10.000	10.511	105.11	70-130
34	Hexachloroethane	10.000	10.618	106.18	70-130
149	Indeno(1,2,3-cd)py	10.000	10.610	106.10	70-130
41	Isophorone	10.000	9.7666	97.67	70-130
63	1-Methylnaphthalen	10.000	10.406	104.06	70-130
62	2-Methylnaphthalen	10.000	10.370	103.70	70-130

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51	Naphthalene	10.000	10.244	102.44	70-130
73	2-Nitroaniline	10.000	9.7362	97.36	70-130
81	3-Nitroaniline	10.000	10.642	106.43	70-130
96	4-Nitroaniline	10.000	11.258	112.59	70-130
35	Nitrobenzene	10.000	9.3765	93.77	70-130
32	N-Nitroso-di-n-pro	10.000	9.7535	97.54	70-130
99	N-Nitrosodiphenyla	10.000	10.727	107.27	70-130
115	Phenanthrene	10.000	10.003	100.03	70-130
125	Pyrene	10.000	10.232	102.32	70-130
50	1,2,4-Trichloroben	10.000	10.385	103.85	70-130
49	Benzoic Acid	20.000	18.047	90.24	70-130
59	4-Chloro-3-Methylp	10.000	11.211	112.11	70-130
24	2-Chlorophenol	10.000	9.9210	99.21	70-130
48	2,4-Dichlorophenol	10.000	10.734	107.34	70-130
43	2,4-Dimethylphenol	10.000	10.591	105.91	70-130
98	4,6-Dinitro-2-meth	10.000	10.395	103.95	70-130
83	2,4-Dinitrophenol	20.000	18.029	90.14	70-130
30	2-Methylphenol	10.000	11.584	115.84	70-130
192	4-Methylphenol	10.000	11.242	112.42	70-130
42	2-Nitrophenol	10.000	10.913	109.13	70-130
85	4-Nitrophenol	10.000	9.1980	91.98	70-130
111	Pentachlorophenol	20.000	17.576	87.88	70-130
22	Phenol	10.000	9.4385	94.39	70-130
67	2,4,5-Trichlorophe	10.000	11.647	116.47	70-130
66	2,4,6-Trichlorophe	10.000	9.8077	98.08	70-130
119	Carbazole	10.000	10.164	101.64	70-130
142	Benzo(k)fluoranthe	10.000	9.4450	94.45	70-130
37	Acetophenone	10.000	10.689	106.89	70-130
209	Benzaldehyde	10.000	10.257	102.57	70-130
210	Caprolactam	10.000	11.008	110.08	70-130
211	1,1'-Biphenyl	10.000	10.103	101.03	70-130
212	Atrazine	10.000	11.554	115.54	70-130
21	Aniline	10.000	9.7223	97.22	70-130
10	N-Nitrosodimethyla	10.000	8.0355	80.35	70-130
80	1,2-Dinitrobenzene	10.000	10.947	109.47	70-130
91	2,3,5,6-Tetrachlor	10.000	10.306	103.06	70-130



Data File: \\cansvr11\dd\chem\MSS\a4hp10,i\00312a,b\QCHRLCL.D
Date : 12-MAR-2010 11:36
Client ID:
Sample Info: qcmrlcl,00312a,b,8270C-625,1-827042d.sub
Volume Injected (uL): 0.5
Column phase: db5.625

Instrument: a4hp10,i
Operator: 001710
Column diameter: 0.32

\\cansvr11\dd\chem\MSS\a4hp10,i\00312a,b\QCHRLCL.D

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\QCMRLCL.D
Lab Smp Id: qcmrlcl
Inj Date : 12-MAR-2010 11:36
Operator : 001710 Inst ID: a4hp10.i
Smp Info : qcmrlcl,00312a.b,8270C-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Meth Date : 12-Mar-2010 09:46 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 16:10 Cal File: 1SL0308.D
Als bottle: 3 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.397	3.397	(1.000)	282963	2.00000	
* 2 Naphthalene-d8	136	4.284	4.290	(1.000)	1135552	2.00000	
* 3 Acenaphthene-d10	164	5.550	5.556	(1.000)	648341	2.00000	
* 4 Phenanthrene-d10	188	6.635	6.635	(1.000)	1073572	2.00000	
* 5 Chrysene-d12	240	8.585	8.590	(1.000)	1180557	2.00000	
* 6 Perylene-d12	264	9.942	9.947	(1.000)	980249	2.00000	
9 Pyridine	79	1.789	1.789	(0.527)	399926	2.01486	8.0594
10 N-Nitrosodimethylamine	74	1.757	1.763	(0.517)	222796	2.00887	8.0355
11 Ethyl methacrylate	69	Compound Not Detected.					
12 3-Chloropropionitrile	54	2.174	2.174	(0.640)	214590	1.93711	7.7484
13 Malononitrile	66	Compound Not Detected.					
209 Benzaldehyde	77	3.104	3.109	(0.914)	286821	2.56429	10.257
21 Aniline	93	3.168	3.173	(0.932)	663040	2.43058	9.7223
22 Phenol	94	3.114	3.114	(0.917)	528740	2.35963	9.4385
23 bis(2-Chloroethyl)ether	93	3.194	3.194	(0.940)	417859	2.34196	9.3678
24 2-Chlorophenol	128	3.253	3.253	(0.958)	432109	2.48026	9.9210
26 1,3-Dichlorobenzene	146	3.360	3.360	(0.989)	473864	2.56833	10.273
27 1,4-Dichlorobenzene	146	3.408	3.408	(1.003)	467884	2.55936	10.237
28 1,2-Dichlorobenzene	146	3.515	3.515	(1.035)	450083	2.59053	10.362
29 Benzyl Alcohol	108	3.467	3.472	(1.020)	181919	1.60252	6.4101(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
30 2-Methylphenol	108	3.526	3.531	(1.038)	466999	2.89601	11.584
31 bis(2-Chloroisopropyl)ether	45	3.558	3.558	(1.047)	463668	1.89967	7.5987
37 Acetophenone	105	3.659	3.665	(1.077)	615997	2.67222	10.689
32 N-Nitroso-di-n-propylamine	70	3.649	3.654	(1.074)	296877	2.43839	9.7535
192 4-Methylphenol	108	3.632	3.632	(1.069)	475829	2.81049	11.242
34 Hexachloroethane	117	3.750	3.750	(1.104)	172227	2.65445	10.618
35 Nitrobenzene	77	3.787	3.787	(0.884)	450470	2.34413	9.3765
41 Isophorone	82	3.948	3.948	(0.921)	872565	2.44166	9.7666
42 2-Nitrophenol	139	4.006	4.006	(0.935)	254279	2.72820	10.913
43 2,4-Dimethylphenol	107	4.006	4.012	(0.935)	452554	2.64782	10.591
44 bis(2-Chloroethoxy)methane	93	4.081	4.081	(0.953)	483456	2.36785	9.4714
46 2,4-Toluenediamene	121	5.107	5.107	(1.192)	151338	2.80196	11.208
47 1,3,5-Trichlorobenzene	180	4.017	4.017	(0.938)	394402	2.52400	10.096
48 2,4-Dichlorophenol	162	4.172	4.172	(0.974)	358246	2.68348	10.734
49 Benzoic Acid	122	4.065	4.092	(0.949)	433573	4.51178	18.047(Q)
50 1,2,4-Trichlorobenzene	180	4.236	4.241	(0.989)	401684	2.59616	10.385
51 Naphthalene	128	4.300	4.306	(1.004)	1322522	2.56106	10.244
52 4-Chloroaniline	127	4.322	4.322	(1.009)	543604	2.49181	9.9672
56 Hexachlorobutadiene	225	4.375	4.375	(1.021)	216424	2.76505	11.060
210 Caprolactam	113	4.567	4.583	(1.066)	146836	2.75203	11.008(Q)
57 1,2,3-Trichlorobenzene	180	4.402	4.402	(1.027)	377324	2.61000	10.440
59 4-Chloro-3-Methylphenol	107	4.653	4.653	(1.086)	387487	2.80284	11.211
62 2-Methylnaphthalene	142	4.792	4.797	(1.118)	738723	2.59256	10.370
63 1-Methylnaphthalene	142	4.867	4.867	(1.136)	841237	2.60152	10.406
64 Hexachlorocyclopentadiene	237	4.899	4.904	(0.883)	229627	2.62766	10.511
66 2,4,6-Trichlorophenol	196	4.984	4.989	(0.898)	246072	2.45193	9.8077
67 2,4,5-Trichlorophenol	196	5.016	5.016	(0.904)	309767	2.91171	11.647
211 1,1'-Biphenyl	154	5.123	5.123	(0.923)	1075533	2.52580	10.103
68 1,2,3,5-Tetrachlorobenzene	216	4.904	4.904	(0.884)	382170	2.49698	9.9879
70 2-Chloronaphthalene	162	5.150	5.150	(0.928)	809147	2.45513	9.8205
73 2-Nitroaniline	65	5.208	5.208	(0.938)	233951	2.43405	9.7362
74 1,2,3,4-Tetrachlorobenzene	216	5.118	5.123	(0.922)	350361	2.50878	10.035
76 Dimethylphthalate	163	5.326	5.326	(0.960)	965924	2.67716	10.709
78 2,6-Dinitrotoluene	165	5.374	5.379	(0.968)	230346	2.80807	11.232
79 Acenaphthylene	152	5.454	5.454	(0.983)	1364594	2.60855	10.434
80 1,2-Dinitrobenzene	168	5.422	5.422	(0.977)	114663	2.73674	10.947
81 3-Nitroaniline	138	5.502	5.508	(0.991)	245599	2.66063	10.642
82 Acenaphthene	153	5.577	5.577	(1.005)	834452	2.54724	10.189
83 2,4-Dinitrophenol	184	5.577	5.582	(1.005)	258279	4.50716	18.029(Q)
85 4-Nitrophenol	109	5.598	5.604	(1.009)	100911	2.29949	9.1980
86 Dibenzofuran	168	5.700	5.700	(1.027)	1196493	2.58590	10.344
87 2,4-Dinitrotoluene	165	5.668	5.673	(1.021)	307604	2.84432	11.377
91 2,3,5,6-Tetrachlorophenol	232	5.748	5.748	(1.036)	216590	2.57653	10.306
93 Diethylphthalate	149	5.833	5.833	(1.051)	965083	2.78462	11.138
94 Fluorene	166	5.951	5.951	(1.072)	987837	2.62803	10.512
95 4-Chlorophenyl-phenylether	204	5.935	5.935	(1.069)	464146	2.68148	10.726
96 4-Nitroaniline	138	5.946	5.951	(1.071)	269674	2.81464	11.258
98 4,6-Dinitro-2-methylphenol	198	5.967	5.967	(0.899)	174762	2.59887	10.395
99 N-Nitrosodiphenylamine	169	6.015	6.020	(0.907)	727061	2.68184	10.727
100 1,2-Diphenylhydrazine	77	6.047	6.053	(0.911)	937161	2.29889	9.1955
106 4-Bromophenyl-phenylether	248	6.293	6.293	(0.948)	242451	2.49482	9.9793
107 Hexachlorobenzene	284	6.352	6.352	(0.957)	234445	2.46241	9.8496
212 Atrazine	200	6.384	6.389	(0.962)	186337	2.88859	11.554
111 Pentachlorophenol	266	6.485	6.485	(0.977)	262822	4.39403	17.576

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
115 Phenanthrene	178	6.651	6.656	(1.002)	1405498	2.50075	10.003
116 Anthracene	178	6.688	6.694	(1.008)	1427760	2.56269	10.251
119 Carbazole	167	6.795	6.795	(1.024)	1357340	2.54097	10.164
120 Di-n-Butylphthalate	149	7.014	7.014	(1.057)	1638312	2.85655	11.426
123 Fluoranthene	202	7.522	7.522	(1.134)	1472634	2.63589	10.544
124 Benzidine	184	7.596	7.596	(0.885)	764380	2.57898	10.316
125 Pyrene	202	7.693	7.693	(0.896)	1511032	2.55798	10.232
131 Butylbenzylphthalate	149	8.115	8.120	(0.945)	709403	2.93605	11.744
133 3,3'-Dimethoxybenzidine	244	8.505	8.505	(0.991)	276170	2.48654	9.9462
135 3,3'-Dichlorobenzidine	252	8.537	8.542	(0.994)	516658	2.66198	10.648
136 Benzo(a)Anthracene	228	8.574	8.579	(0.999)	1466670	2.55745	10.230
137 Chrysene	228	8.606	8.611	(1.002)	1419737	2.57769	10.311
138 4,4'-Methylene bis(o-chloroan	231	8.531	8.537	(0.994)	259960	2.82221	11.289
139 bis(2-ethylhexyl)Phthalate	149	8.526	8.531	(0.993)	963304	2.81857	11.274
140 Di-n-octylphthalate	149	9.050	9.050	(0.910)	1629063	2.91904	11.676
141 Benzo(b)fluoranthene	252	9.520	9.525	(0.958)	1413000	2.79719	11.189
142 Benzo(k)fluoranthene	252	9.546	9.557	(0.960)	1376235	2.36126	9.4450
146 Benzo(a)pyrene	252	9.878	9.888	(0.994)	1256954	2.61649	10.466
149 Indeno(1,2,3-cd)pyrene	276	11.411	11.427	(1.148)	1330668	2.65250	10.610
150 Dibenz(a,h)anthracene	278	11.427	11.443	(1.149)	1129059	2.68910	10.756
151 Benzo(g,h,i)perylene	276	11.860	11.876	(1.193)	1108548	2.59318	10.373
198 1,4-Dioxane	88	1.592	1.592	(0.469)	158688	2.01538	8.0615
101 Diphenylamine	169	6.015	6.020	(0.907)	727061	2.68184	10.727

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

TestAmerica North Canton

OKRW 3/12/10

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\MDLL1.D
Lab Smp Id: mdll1
Inj Date : 12-MAR-2010 11:55
Operator : 001710 Inst ID: a4hp10.i
Smp Info : mdll1,00312a.b,8270C-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Meth Date : 12-Mar-2010 09:46 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 16:10 Cal File: 1SL0308.D
Als bottle: 8 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.392	3.397	(1.000)	265266	2.00000	(Q)
* 2 Naphthalene-d8	136	4.284	4.290	(1.000)	1048083	2.00000	
* 3 Acenaphthene-d10	164	5.550	5.556	(1.000)	600945	2.00000	
* 4 Phenanthrene-d10	188	6.635	6.635	(1.000)	979515	2.00000	
* 5 Chrysene-d12	240	8.585	8.590	(1.000)	1111290	2.00000	
* 6 Perylene-d12	264	9.942	9.947	(1.000)	911705	2.00000	
9 Pyridine	79	1.800	1.789	(0.531)	6631	0.03564	0.035636(M)
10 N-Nitrosodimethylamine	74	1.757	1.763	(0.518)	3541	0.03406	0.034058
11 Ethyl methacrylate	69	Compound Not Detected.					
12 3-Chloropropionitrile	54	2.169	2.174	(0.639)	4115	0.03962	0.039624(QM)
13 Malononitrile	66	Compound Not Detected.					
209 Benzaldehyde	77	3.103	3.109	(0.915)	5659	0.05397	0.053969
21 Aniline	93	3.168	3.173	(0.934)	12016	0.04699	0.046987
22 Phenol	94	3.109	3.114	(0.917)	9634	0.04586	0.045862
23 bis(2-Chloroethyl)ether	93	3.189	3.194	(0.940)	8813	0.05269	0.052689
24 2-Chlorophenol	128	3.248	3.253	(0.957)	7558	0.04628	0.046276
26 1,3-Dichlorobenzene	146	3.360	3.360	(0.991)	8701	0.05031	0.050305
27 1,4-Dichlorobenzene	146	3.408	3.408	(1.005)	9524	0.05557	0.055573(QM)
28 1,2-Dichlorobenzene	146	3.515	3.515	(1.036)	8247	0.05063	0.050634
29 Benzyl Alcohol	108	Compound Not Detected.					
30 2-Methylphenol	108	3.525	3.531	(1.039)	7501	0.04962	0.049619
31 bis(2-Chloroisopropyl)ether	45	3.552	3.558	(1.047)	8636	0.03774	0.037742
37 Acetophenone	105	3.659	3.665	(1.079)	11309	0.05233	0.052332
32 N-Nitroso-di-n-propylamine	70	3.643	3.654	(1.074)	6167	0.05403	0.054032
192 4-Methylphenol	108	3.627	3.632	(1.069)	7411	0.04669	0.046694
34 Hexachloroethane	117	3.750	3.750	(1.106)	3327	0.05470	0.054698
35 Nitrobenzene	77	3.782	3.787	(0.883)	8271	0.04663	0.046632
41 Isophorone	82	3.942	3.948	(0.920)	17042	0.05167	0.051668
42 2-Nitrophenol	139	4.001	4.006	(0.934)	4997	0.05809	0.058088
43 2,4-Dimethylphenol	107	4.012	4.012	(0.936)	8754	0.05549	0.055493(QM)
44 bis(2-Chloroethoxy)methane	93	4.076	4.081	(0.951)	9615	0.05102	0.051022
46 2,4-Toluenediamene	121	Compound Not Detected.					
47 1,3,5-Trichlorobenzene	180	4.012	4.017	(0.936)	7538	0.05227	0.052266
48 2,4-Dichlorophenol	162	4.172	4.172	(0.974)	5769	0.04682	0.046820
49 Benzoic Acid	122	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
50	1,2,4-Trichlorobenzene	180	4.236	4.241	(0.989)	8565	0.05998	0.059977
51	Naphthalene	128	4.300	4.306	(1.004)	26643	0.05590	0.055900
52	4-Chloroaniline	127	4.321	4.322	(1.009)	9921	0.04927	0.049272
56	Hexachlorobutadiene	225	4.375	4.375	(1.021)	4145	0.05738	0.057376
210	Caprolactam	113	4.546	4.583	(1.061)	2022	0.04106	0.041060(Q)
57	1,2,3-Trichlorobenzene	180	4.396	4.402	(1.026)	7237	0.05424	0.054237
59	4-Chloro-3-Methylphenol	107	4.658	4.653	(1.087)	6603	0.05175	0.051748
62	2-Methylnaphthalene	142	4.792	4.797	(1.118)	14627	0.05562	0.055618
63	1-Methylnaphthalene	142	4.866	4.867	(1.136)	15418	0.05166	0.051659
64	Hexachlorocyclopentadiene	237	4.898	4.904	(0.883)	2457	0.03033	0.030333(M)
66	2,4,6-Trichlorophenol	196	4.984	4.989	(0.898)	4039	0.04342	0.043420
67	2,4,5-Trichlorophenol	196	5.016	5.016	(0.904)	5554	0.05632	0.056323(M)
211	1,1'-Biphenyl	154	5.123	5.123	(0.923)	21058	0.05335	0.053353
68	1,2,3,5-Tetrachlorobenzene	216	4.898	4.904	(0.883)	7534	0.05311	0.053107
70	2-Chloronaphthalene	162	5.150	5.150	(0.928)	16151	0.05287	0.052871
73	2-Nitroaniline	65	5.203	5.208	(0.937)	4329	0.04859	0.048592(QM)
74	1,2,3,4-Tetrachlorobenzene	216	5.117	5.123	(0.922)	7113	0.05495	0.054950
76	Dimethylphthalate	163	5.320	5.326	(0.959)	17020	0.05089	0.050893
78	2,6-Dinitrotoluene	165	5.374	5.379	(0.968)	4523	0.05949	0.059487
79	Acenaphthylene	152	5.449	5.454	(0.982)	24945	0.05145	0.051446
80	1,2-Dinitrobenzene	168	5.417	5.422	(0.976)	1431	0.03685	0.036848
81	3-Nitroaniline	138	5.502	5.508	(0.991)	4854	0.05673	0.056732(QM)
82	Acenaphthene	153	5.572	5.577	(1.004)	15831	0.05214	0.052137
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.700	5.700	(1.027)	22855	0.05329	0.053291
87	2,4-Dinitrotoluene	165	5.668	5.673	(1.021)	4186	0.04176	0.041759
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	5.828	5.833	(1.050)	18386	0.05723	0.057234
94	Fluorene	166	5.946	5.951	(1.071)	17952	0.05153	0.051526
95	4-Chlorophenyl-phenylether	204	5.935	5.935	(1.069)	9221	0.05747	0.057473
96	4-Nitroaniline	138	5.946	5.951	(1.071)	4320	0.04864	0.048645
98	4,6-Dinitro-2-methylphenol	198	5.972	5.967	(0.900)	974	0.23293	0.23293(QM)
99	N-Nitrosodiphenylamine	169	6.015	6.020	(0.907)	13060	0.05280	0.052799
100	1,2-Diphenylhydrazine	77	6.047	6.053	(0.911)	16064	0.04319	0.043189
106	4-Bromophenyl-phenylether	248	6.293	6.293	(0.948)	4524	0.05102	0.051022
107	Hexachlorobenzene	284	6.346	6.352	(0.957)	4951	0.05699	0.056994
212	Atrazine	200	6.384	6.389	(0.962)	3577	0.06078	0.060775
111	Pentachlorophenol	266	Compound Not Detected.					
115	Phenanthrene	178	6.651	6.656	(1.002)	28841	0.05624	0.056243
116	Anthracene	178	6.688	6.694	(1.008)	27176	0.05346	0.053462
119	Carbazole	167	6.795	6.795	(1.024)	25740	0.05281	0.052813
120	Di-n-Butylphthalate	149	7.009	7.014	(1.056)	33367	0.06376	0.063765
123	Fluoranthene	202	7.516	7.522	(1.133)	27654	0.05425	0.054251
124	Benzidine	184	7.596	7.596	(0.885)	8444	0.25644	0.25644
125	Pyrene	202	7.687	7.693	(0.895)	29295	0.05268	0.052684
131	Butylbenzylphthalate	149	8.114	8.120	(0.945)	13168	0.05790	0.057896
133	3,3'-Dimethoxybenzidine	244	8.504	8.505	(0.991)	3443	0.40697	0.40697
135	3,3'-Dichlorobenzidine	252	8.536	8.542	(0.994)	8017	0.04388	0.043881
136	Benzo(a)Anthracene	228	8.574	8.579	(0.999)	28715	0.05319	0.053192
137	Chrysene	228	8.601	8.611	(1.002)	27117	0.05230	0.052302
138	4,4'-Methylene bis(o-chloroan	231	8.531	8.537	(0.994)	4035	0.08609	0.086092
139	bis(2-ethylhexyl)Phthalate	149	8.526	8.531	(0.993)	23549	0.07320	0.073198
140	Di-n-octylphthalate	149	9.049	9.050	(0.910)	29176	0.17149	0.17149

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
141 Benzo(b)fluoranthene	252	9.514	9.525	(0.957)	28581	0.06083	0.060833
142 Benzo(k)fluoranthene	252	9.541	9.557	(0.960)	26049	0.04805	0.048053
146 Benzo(a)pyrene	252	9.877	9.888	(0.994)	23560	0.05273	0.052730
149 Indeno(1,2,3-cd)pyrene	276	11.400	11.427	(1.147)	23303	0.04994	0.049944
150 Dibenz(a,h)anthracene	278	11.416	11.443	(1.148)	18598	0.10582	0.10582
151 Benzo(g,h,i)perylene	276	11.849	11.876	(1.192)	22031	0.05541	0.055411(M)
198 1,4-Dioxane	88	1.592	1.592	(0.469)	2879	0.03900	0.039004(M)
101 Diphenylamine	169	6.015	6.020	(0.907)	13060	0.05280	0.052799

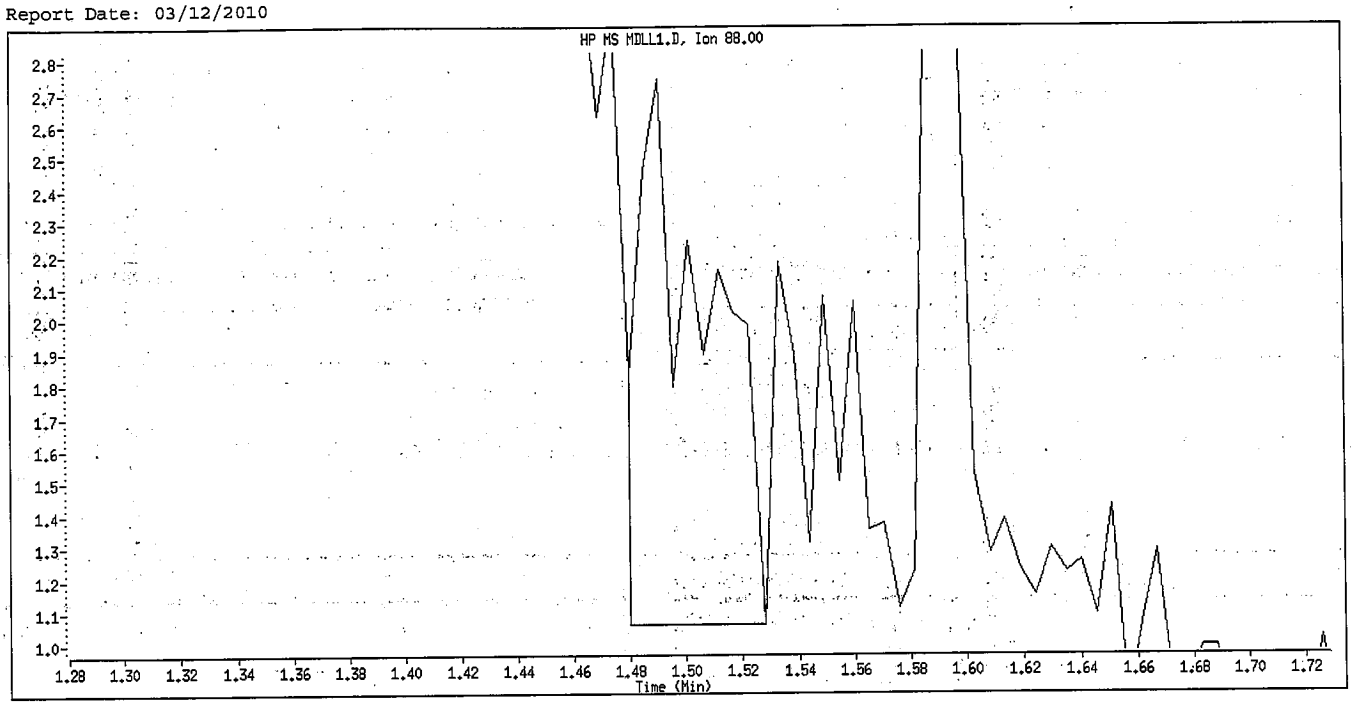
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

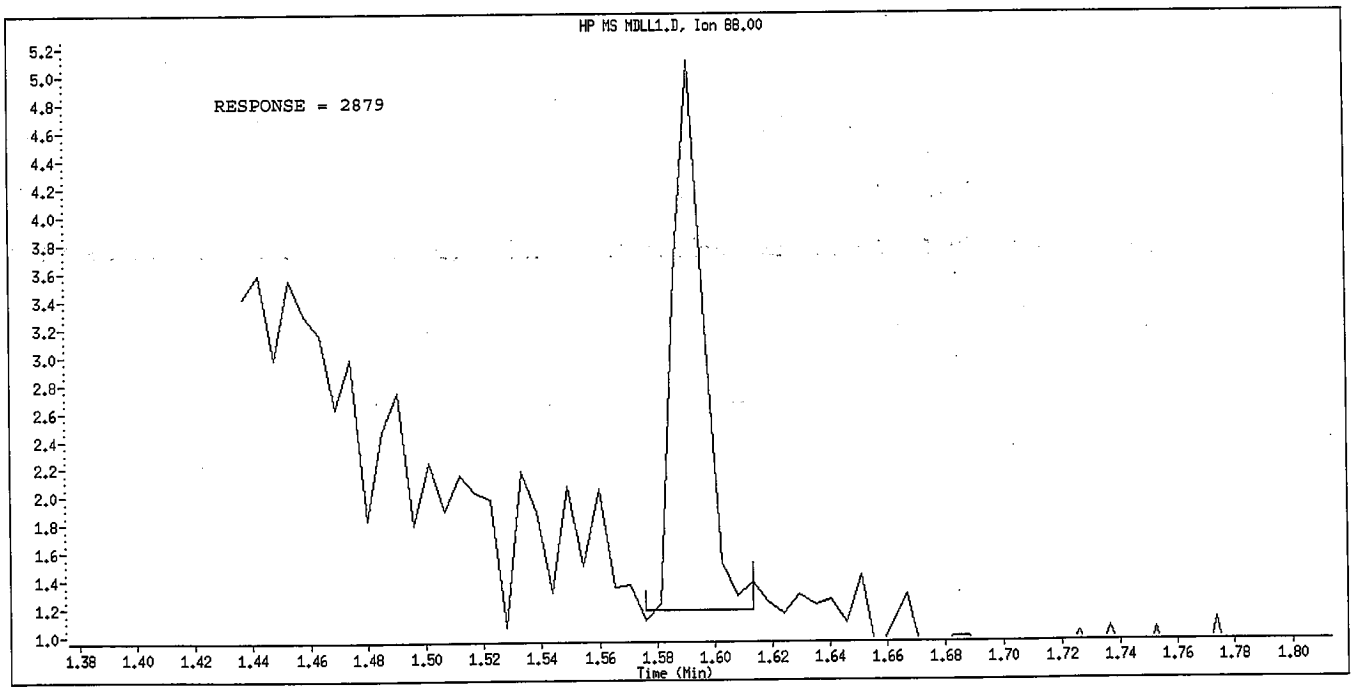
Data File: \\cansvr11\dd\chem\MSS\a4hp10,i\00312a,b\MDLL1,D
Date : 12-MAR-2010 11:55
Client ID:
Sample Info: mdll1,00312a,b,8270C-625,1-8270424.sub
Column phase: db5,625
Instrument: a4hp10,i
Operator: 001710
Column diameter: 0.32
Y (x10^6)
Min
-N-Nitrosodimethylamine+
-3-Chloropropionitrile
-Benzaldehyde+
-Aniline
-2-Chlorophenol
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-bis(2-Chloroethoxy)methan
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene+
-Caprolactam
-4-Chloro-3-Methylphenol
Naphthalene-d8+
-2-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-1,1'-Biphenyl+
-Dimethylphthalate+
-2,6-Dinitrotoluene
-Acenaphthylene+
-Dibenzofuran+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
Acenaphthene-d10+
-Carbazole
-Di-n-Butylphthalate
Phenanthrene-d10+
-Fluoranthene+
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
-3,3'-Dimethoxybenzidine+
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Perylene-d12+
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\cansvr11\dd\chem\MSS\a4hp10,i\00312a,b\MDLL1,D

Page 1

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hp10.i
Client ID:
Compound Name: 1,4-Dioxane
CAS #: 123-91-1
Report Date: 03/12/2010



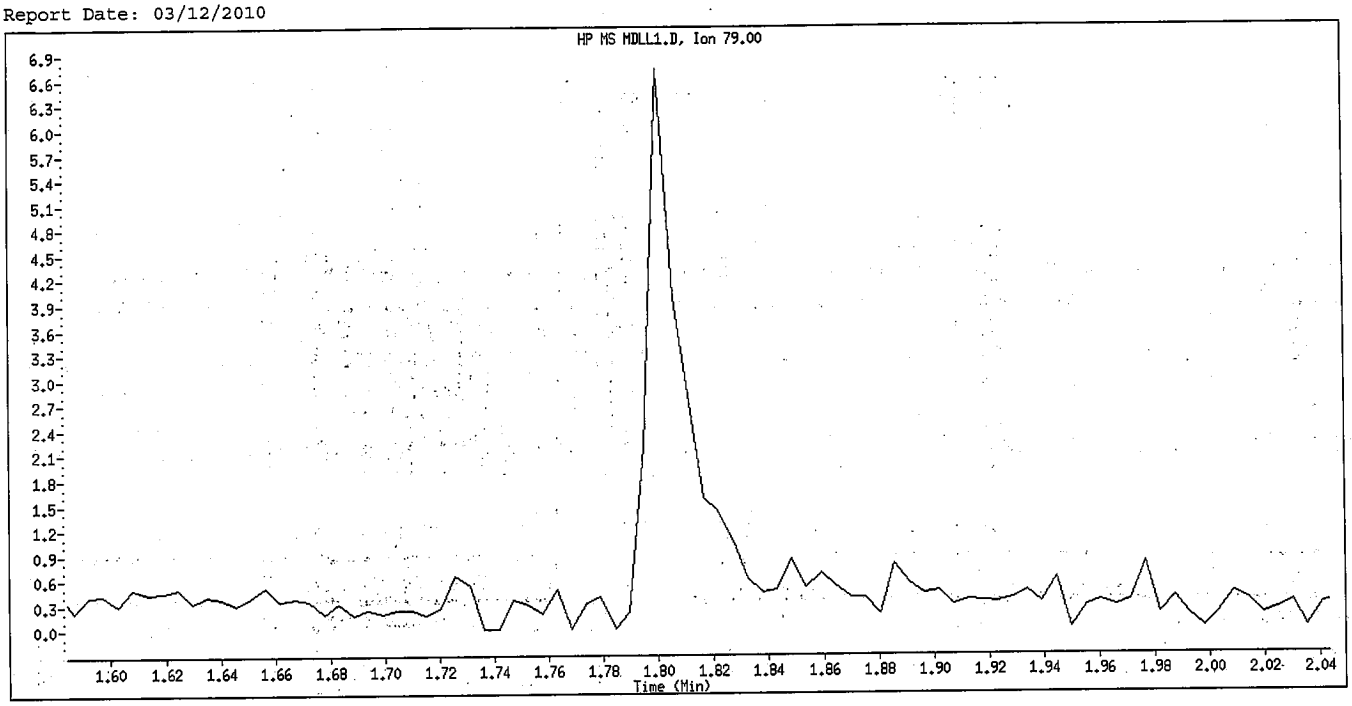
Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hp10.i
Client ID:
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 03/12/2010



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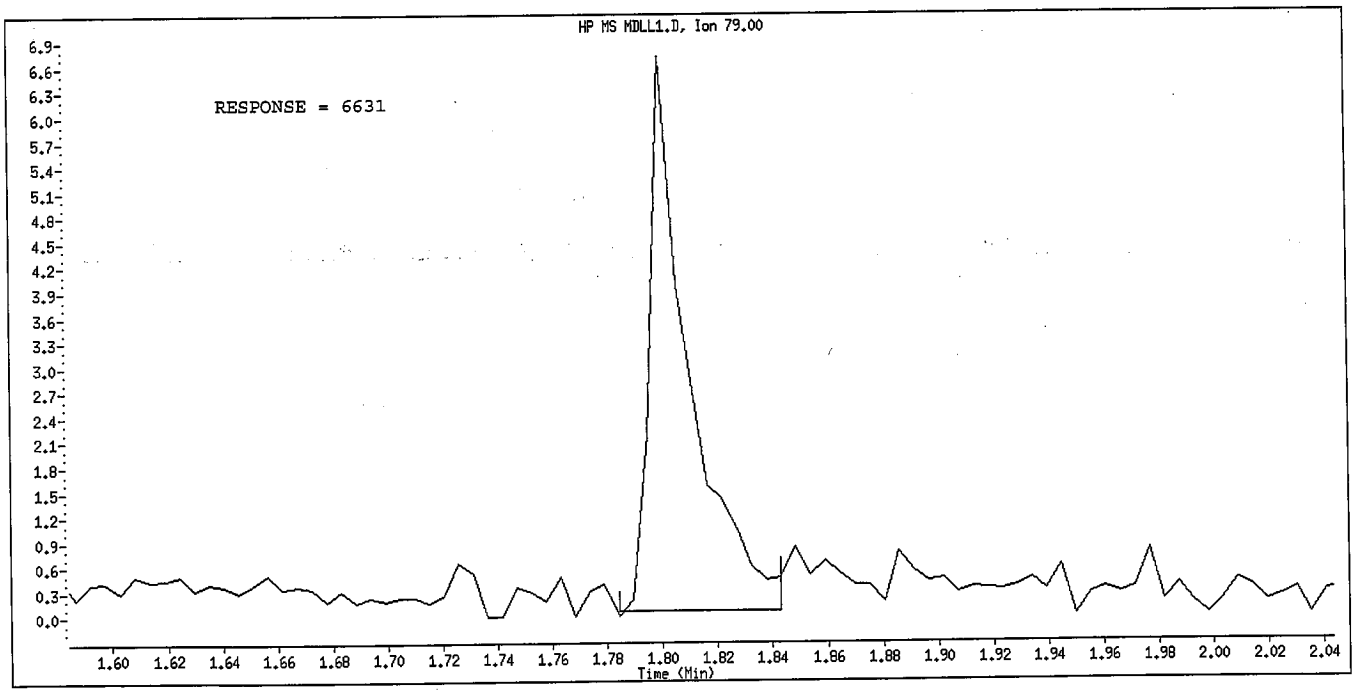
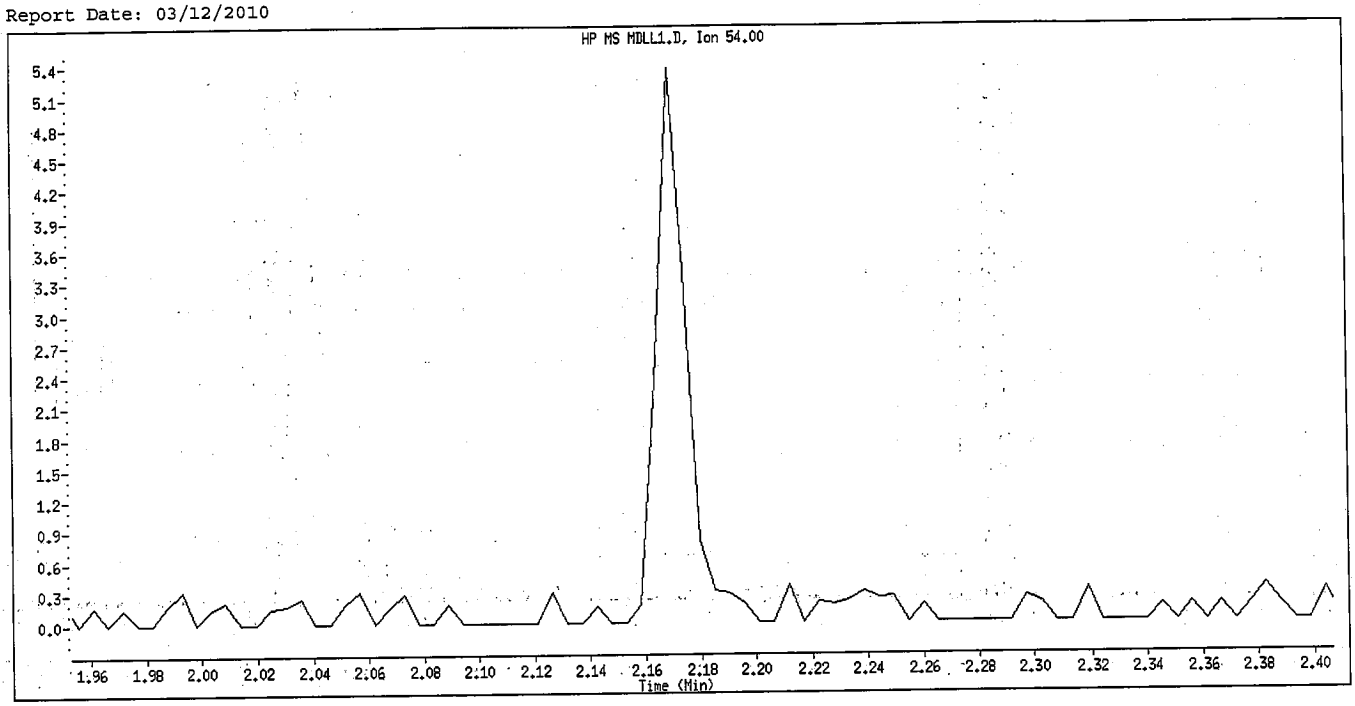


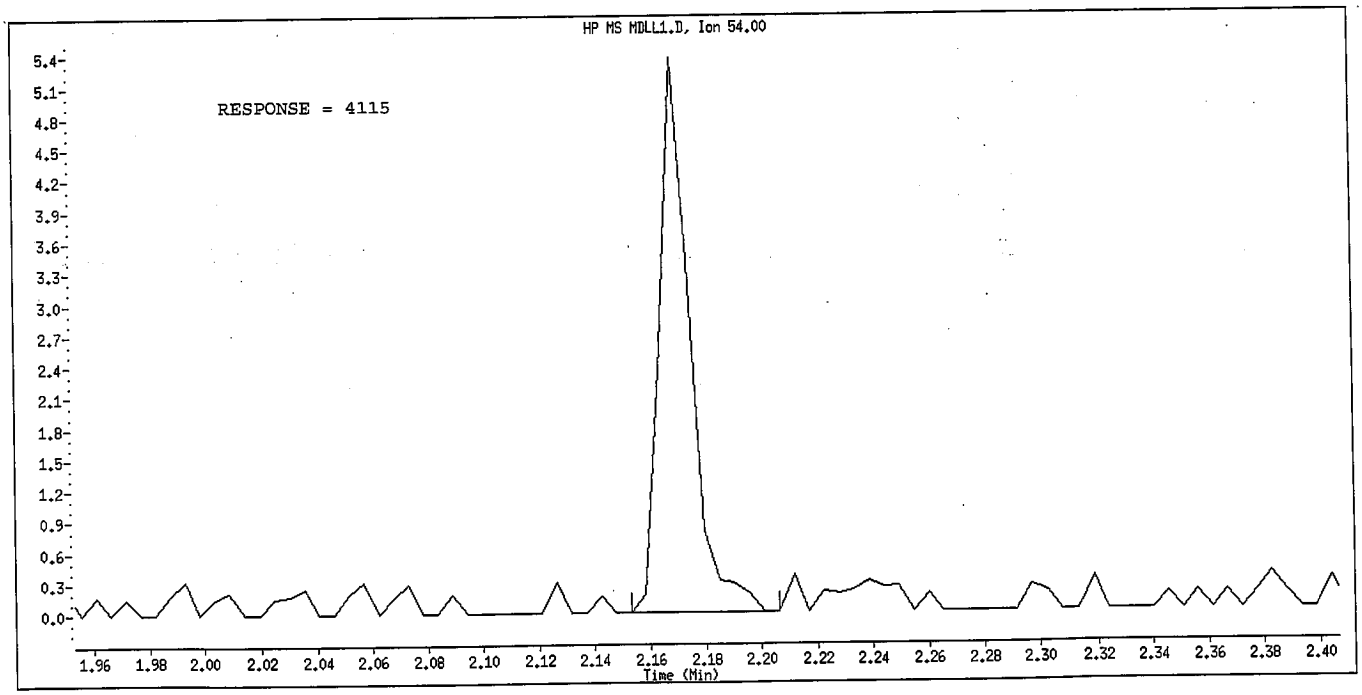
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hp10.i
Client ID:
Compound Name: 3-Chloropropionitrile
CAS #: 542-76-7
Report Date: 03/12/2010



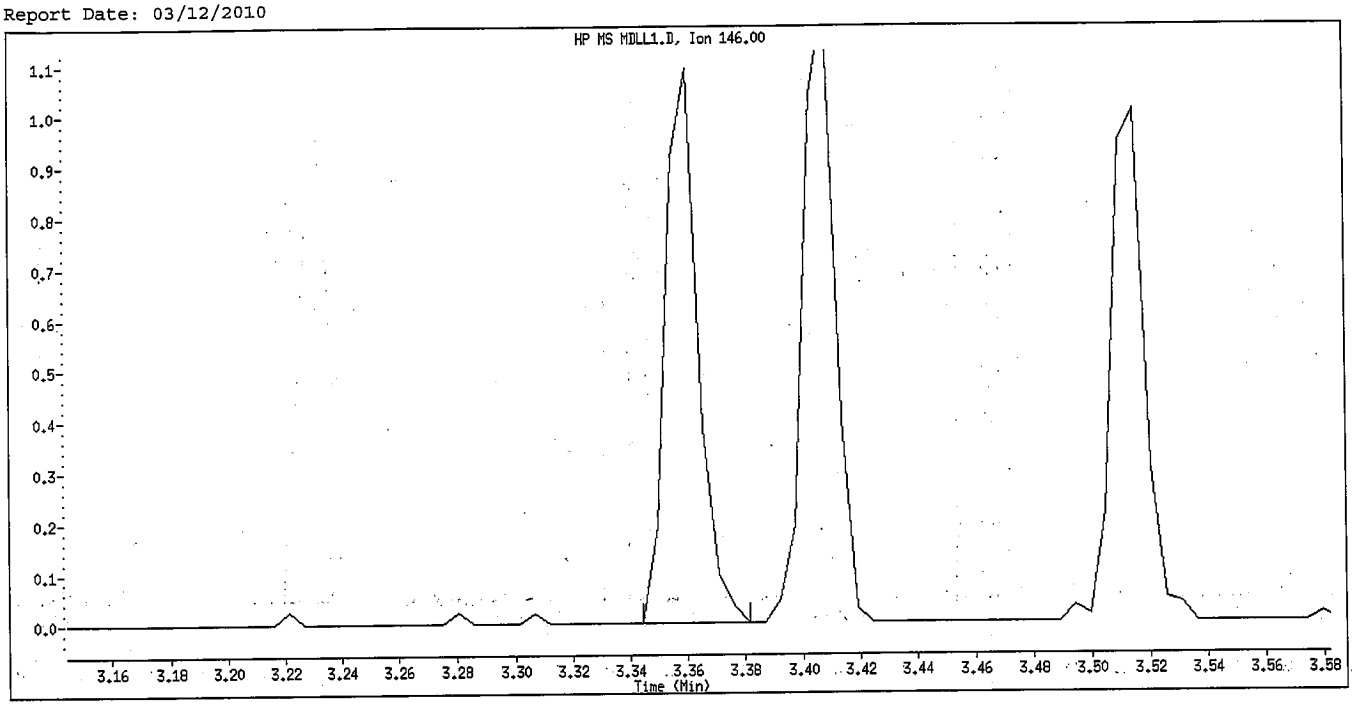
Original Integration



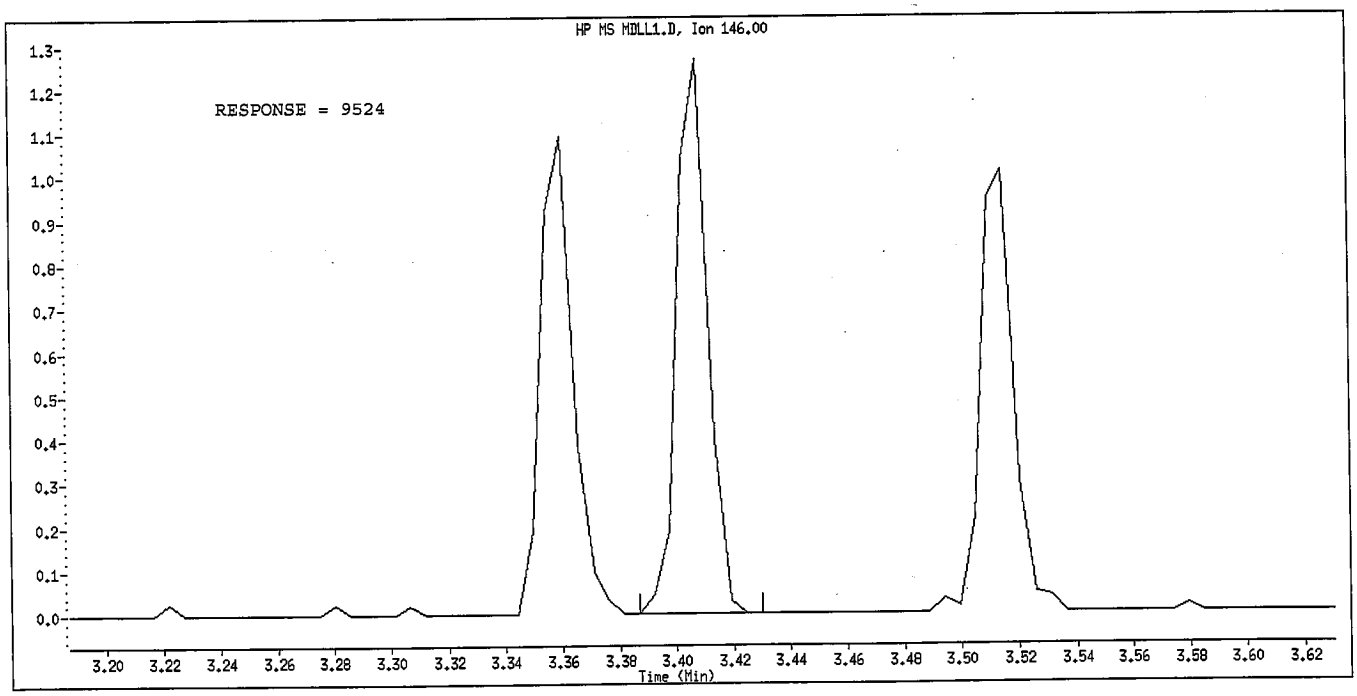
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hpl0.i
Client ID:
Compound Name: 1,4-Dichlorobenzene
CAS #: 106-46-7
Report Date: 03/12/2010



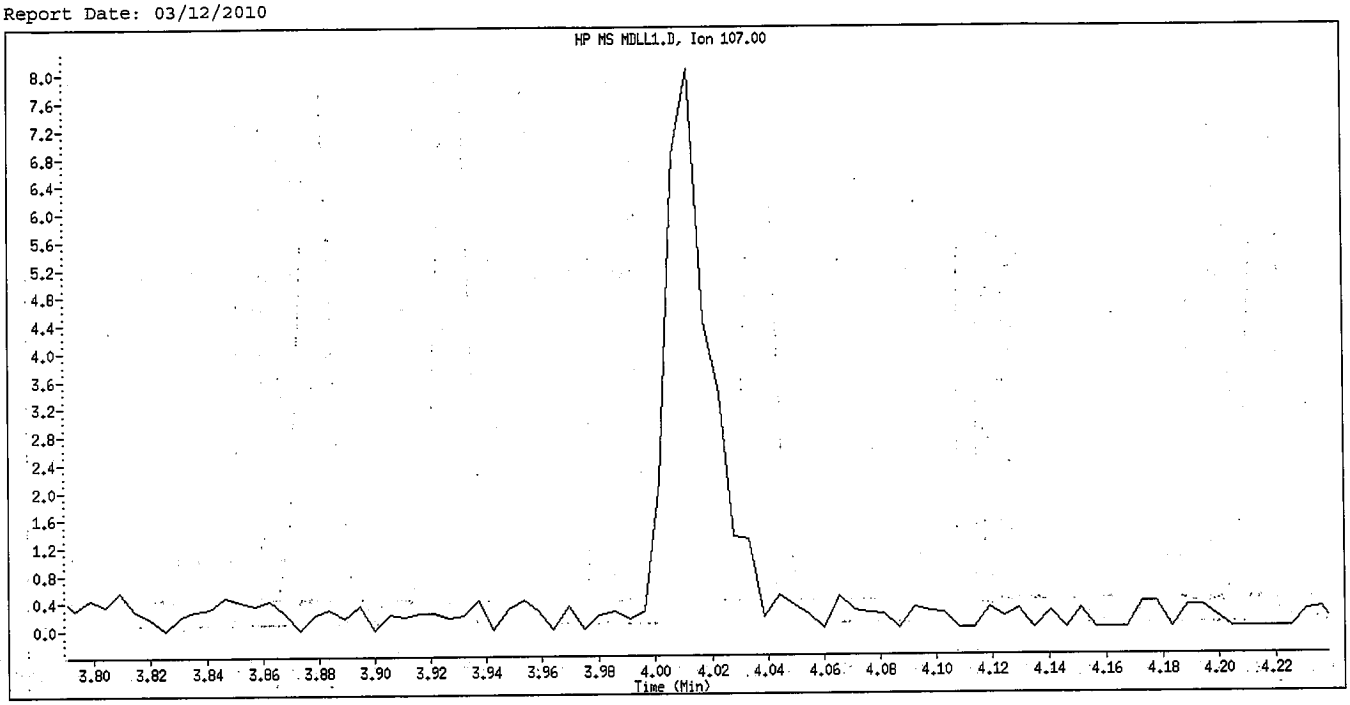
Original Integration



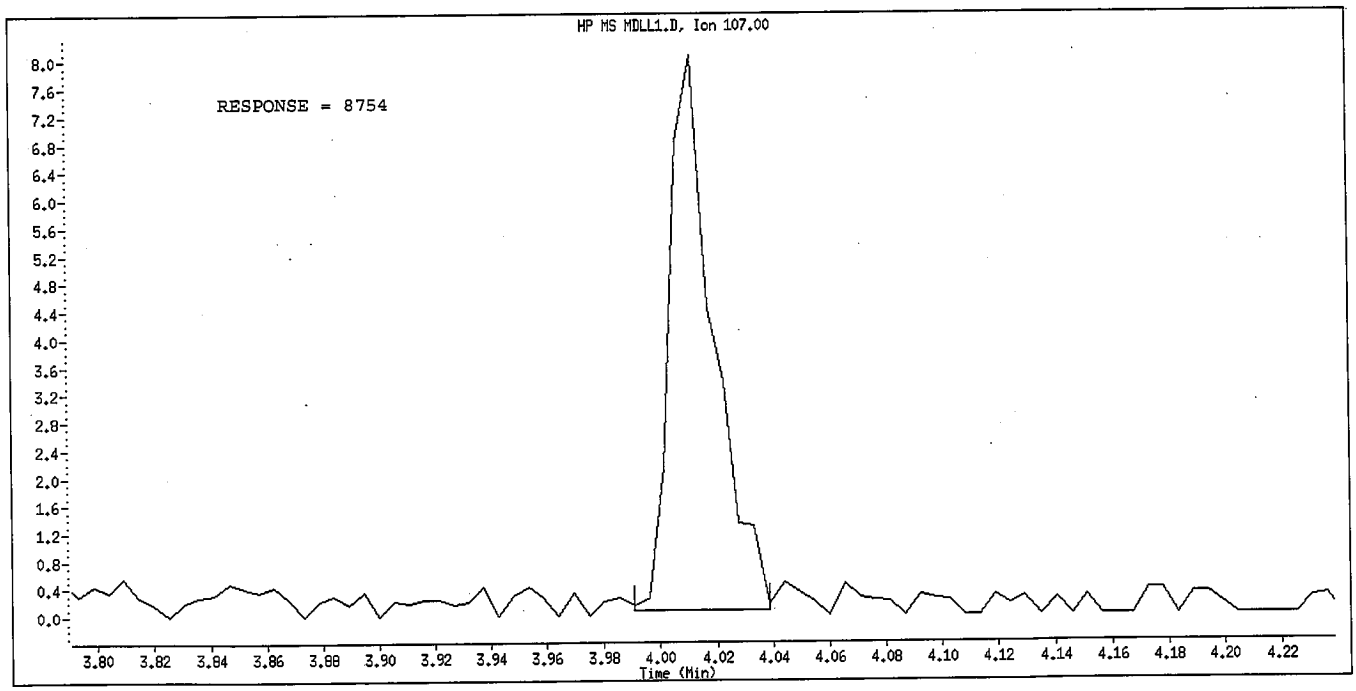
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hpl0.i
Client ID:
Compound Name: 2,4-Dimethylphenol
CAS #: 105-67-9
Report Date: 03/12/2010



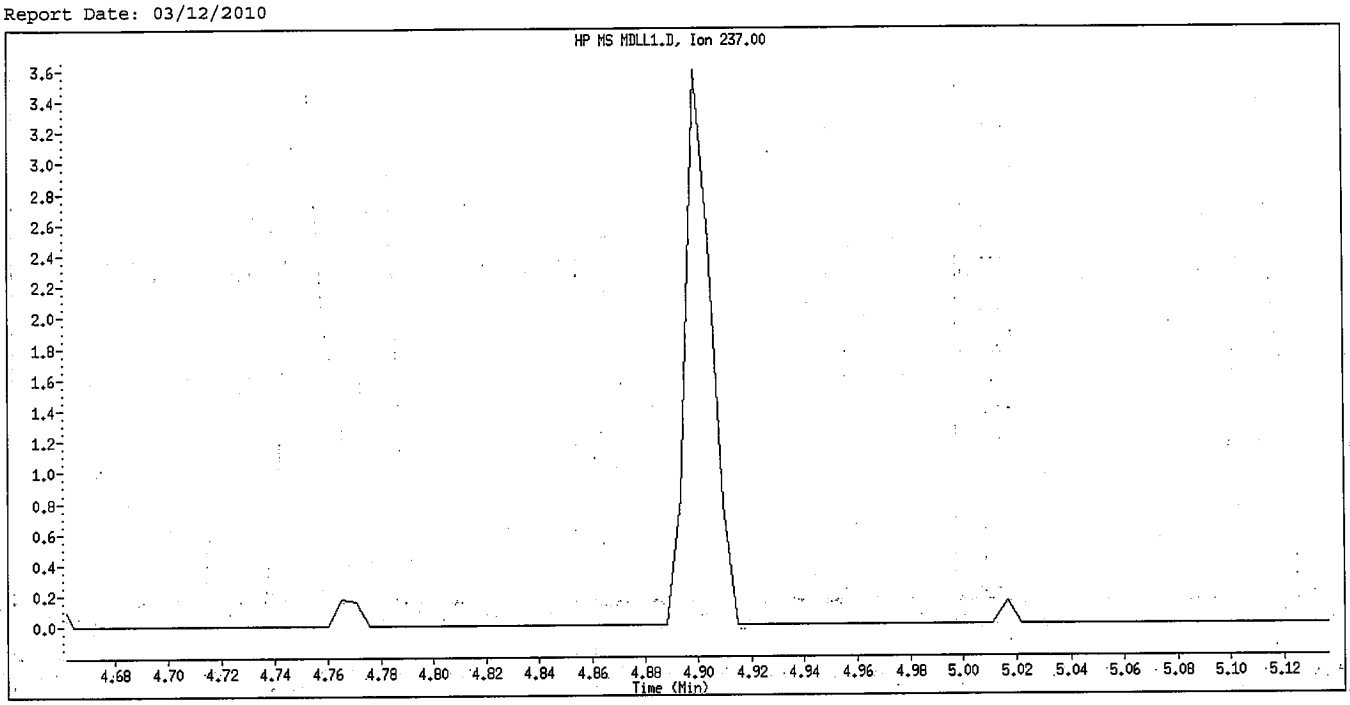
Original Integration



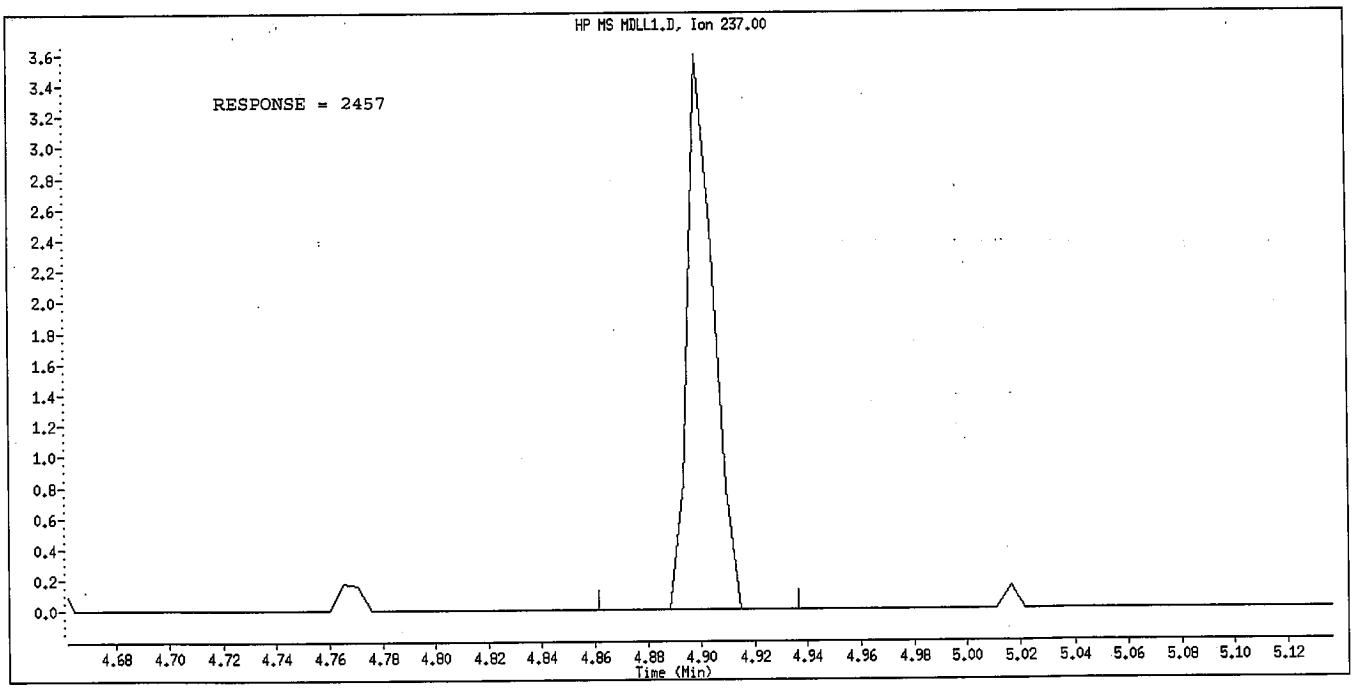
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hp10.i
Client ID:
Compound Name: Hexachlorocyclopentadiene
CAS #: 77-47-4
Report Date: 03/12/2010



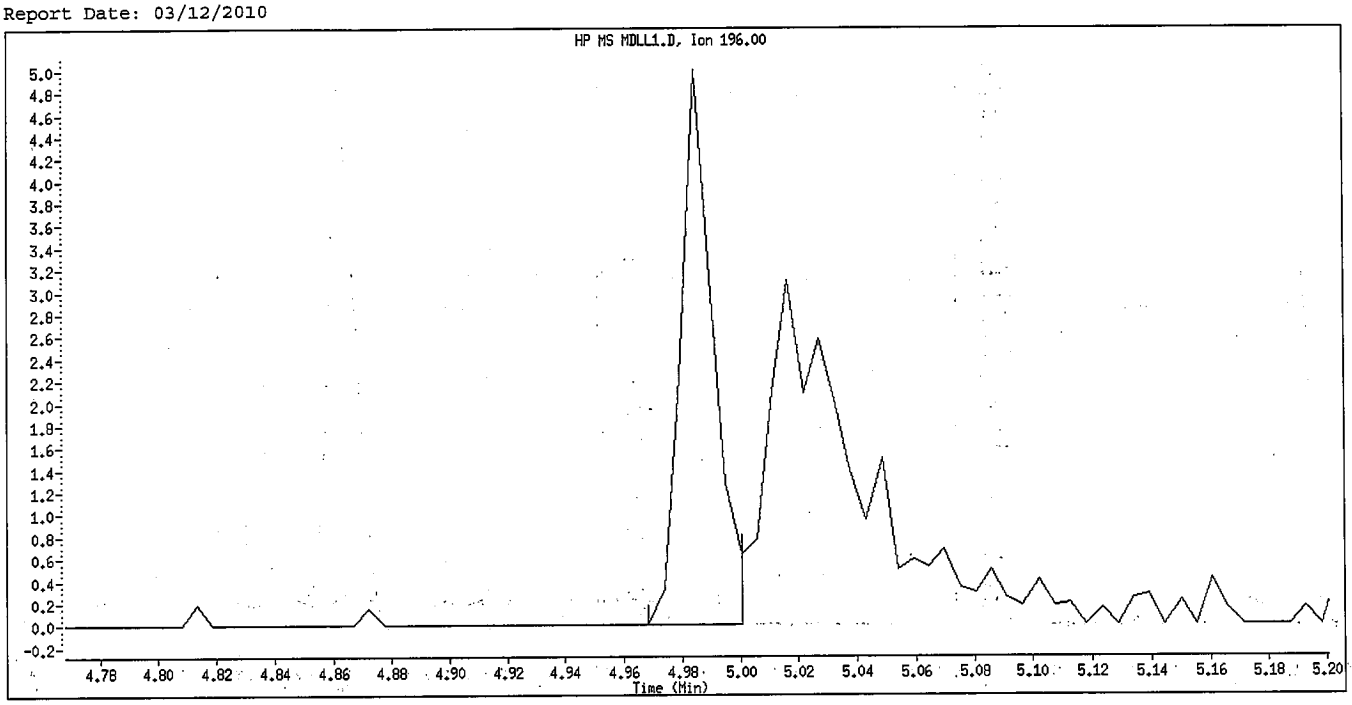
Original Integration



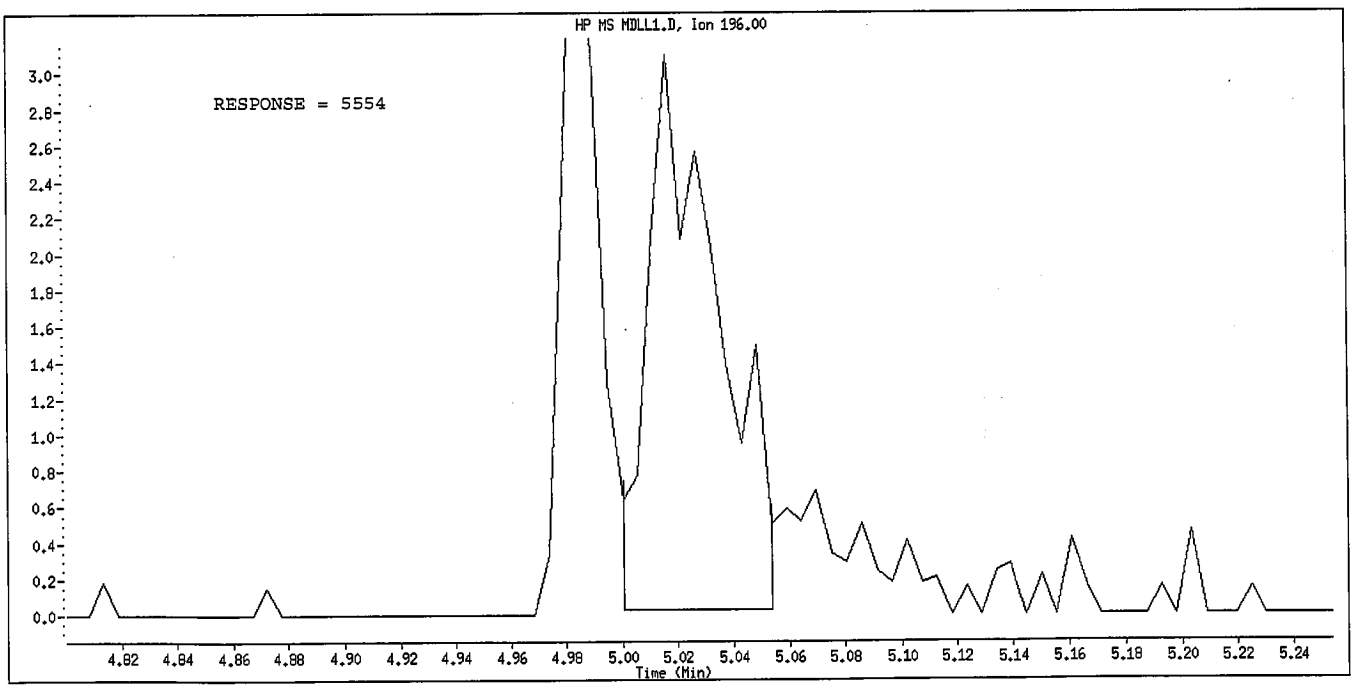
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hp10.i
Client ID:
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 03/12/2010



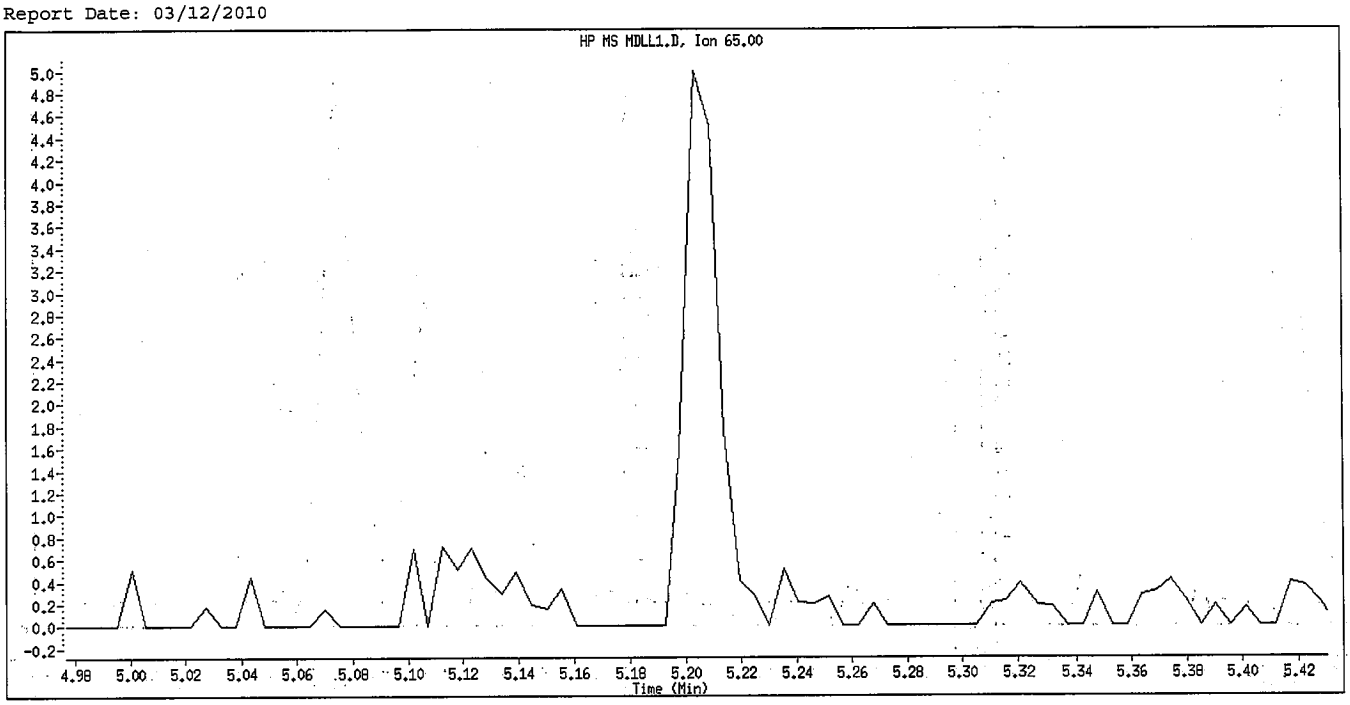
Original Integration



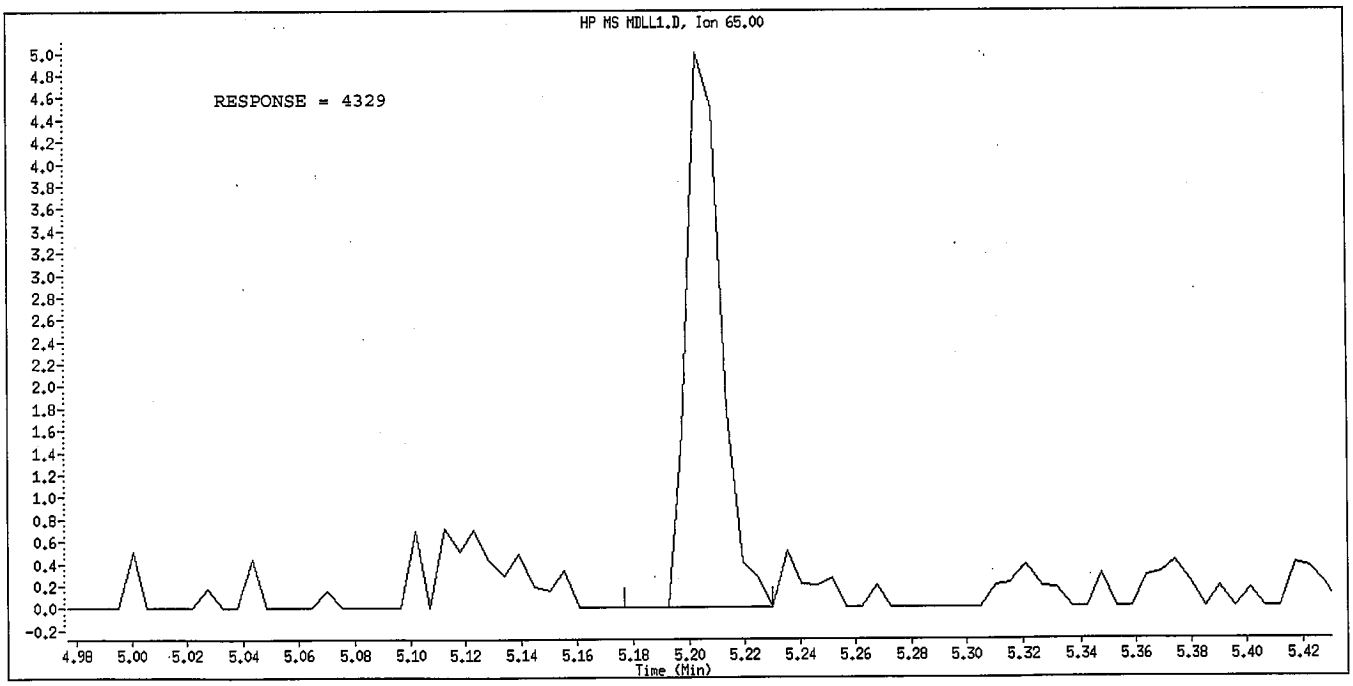
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hp10.i
Client ID:
Compound Name: 2-Nitroaniline
CAS #: 88-74-4
Report Date: 03/12/2010



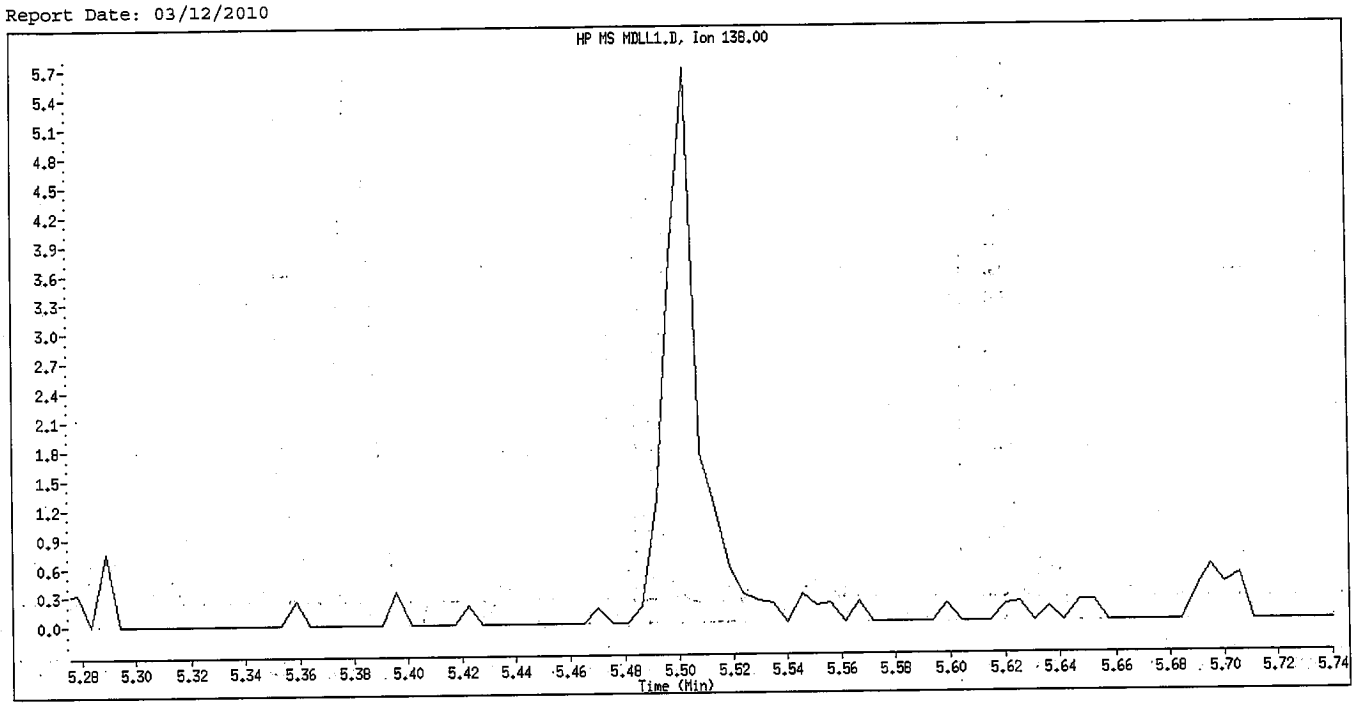
Original Integration



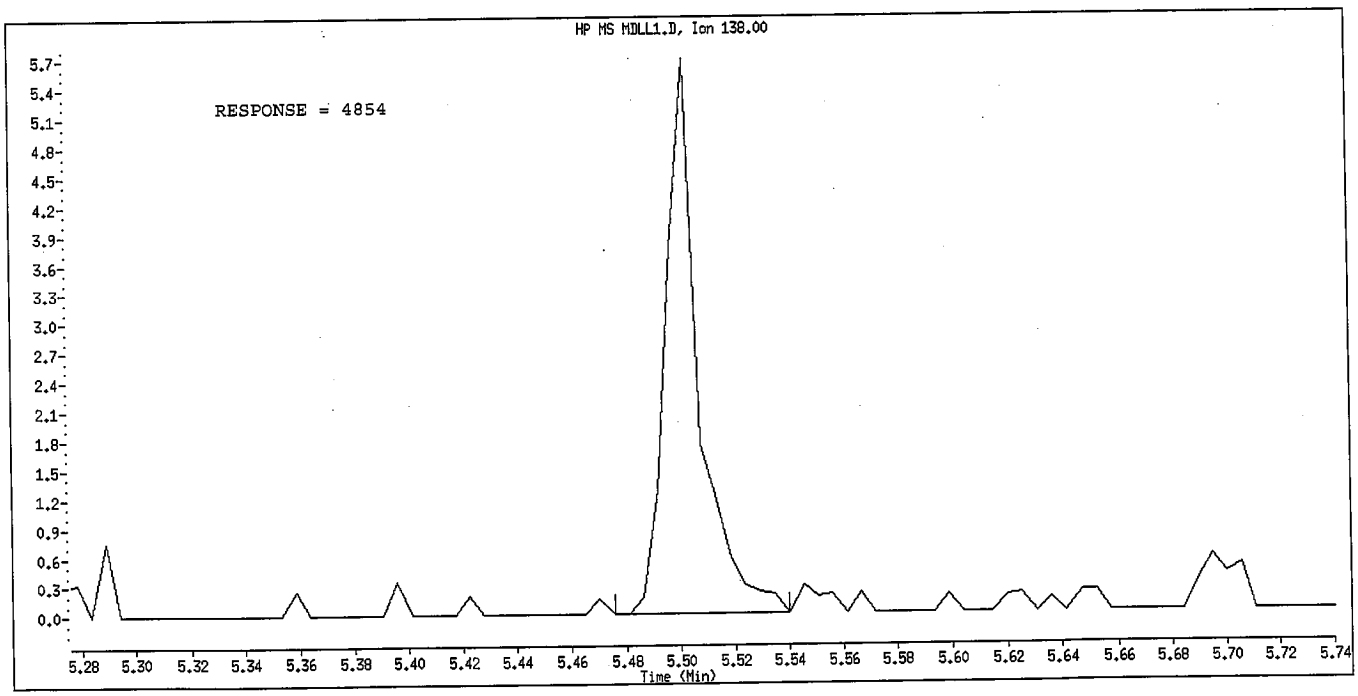
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hp10.i
Client ID:
Compound Name: 3-Nitroaniline
CAS #: 99-09-2
Report Date: 03/12/2010



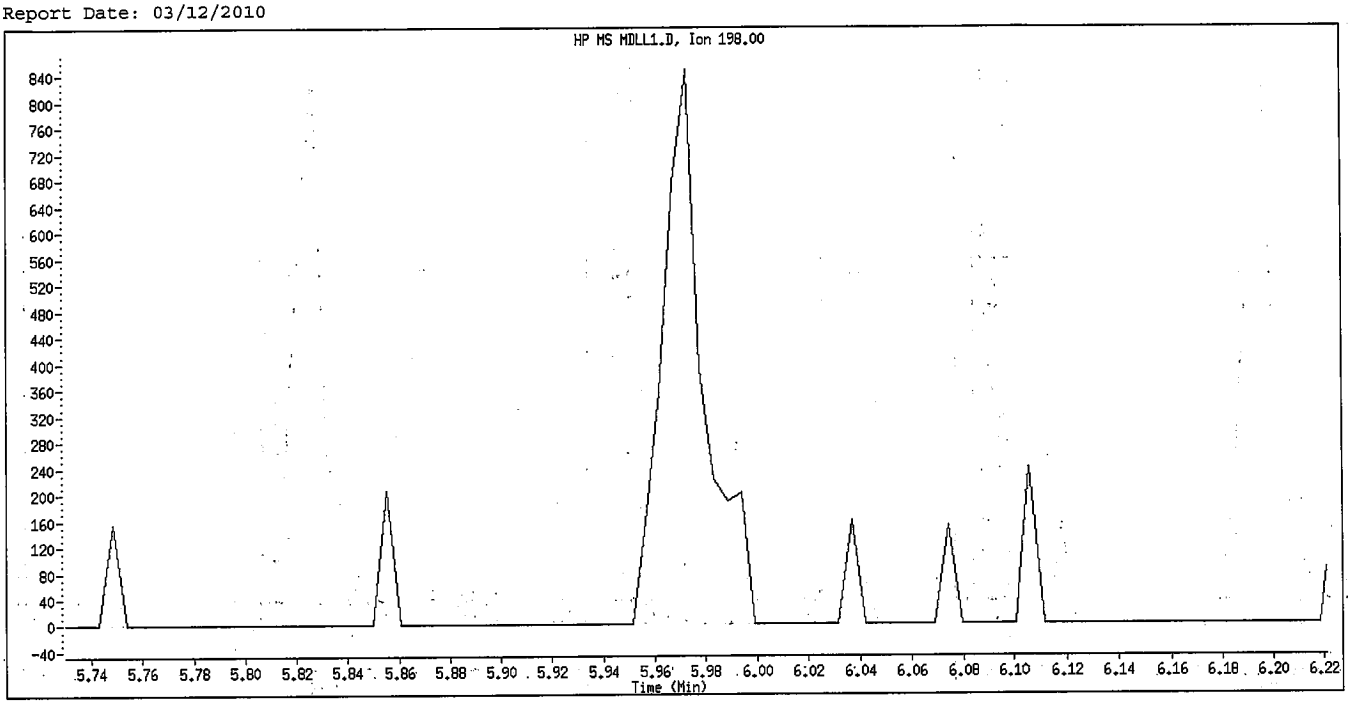
Original Integration



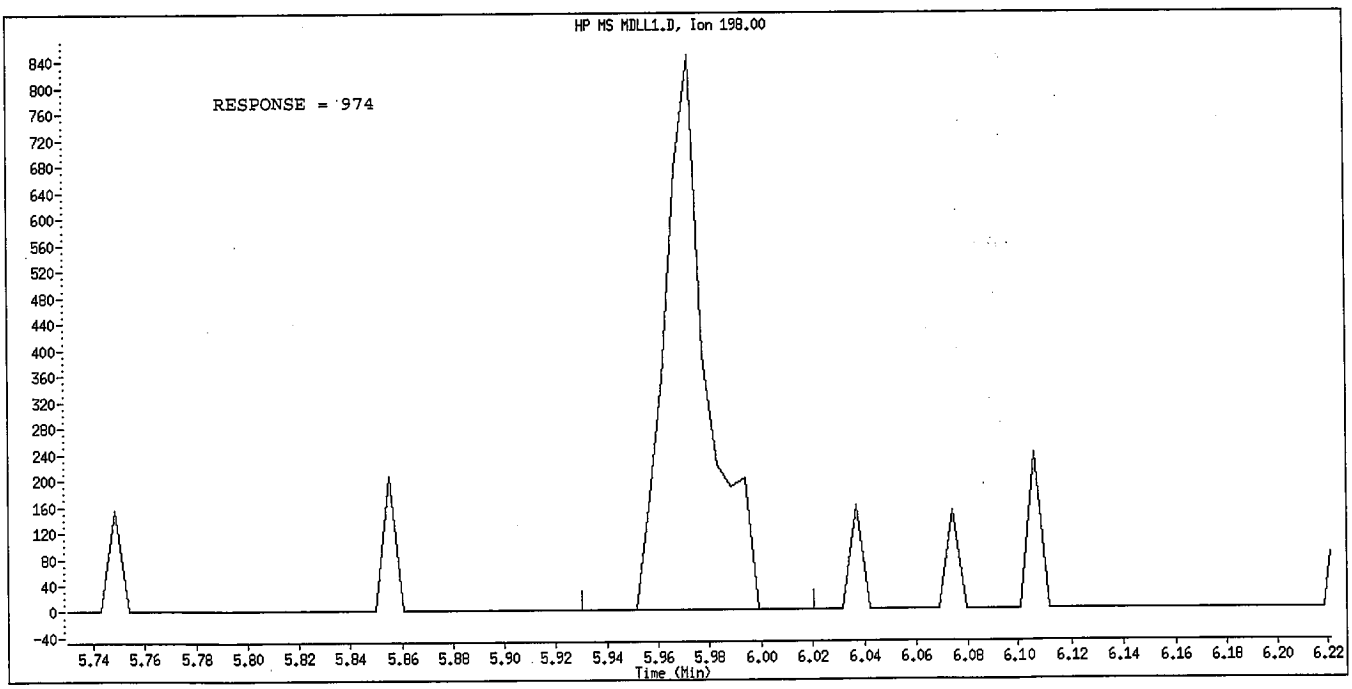
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hp10.i
Client ID:
Compound Name: 4,6-Dinitro-2-methylphenol
CAS #: 534-52-1
Report Date: 03/12/2010



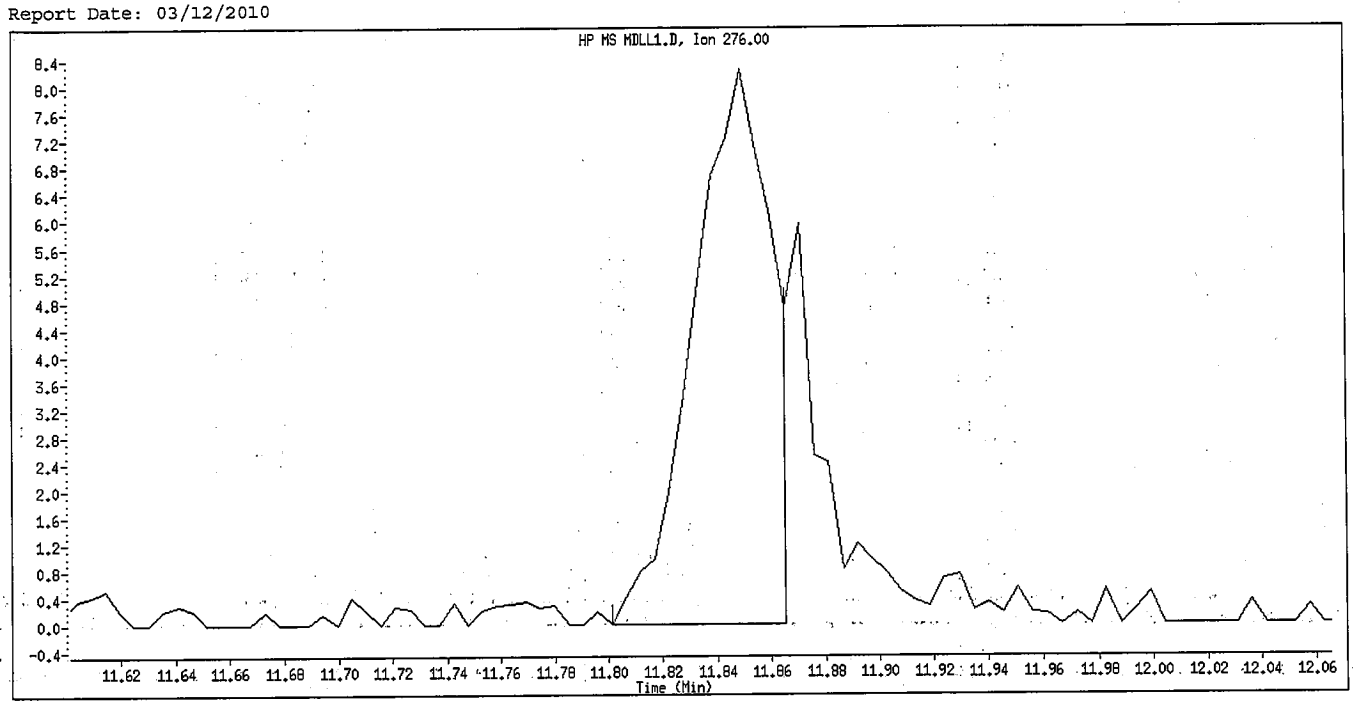
Original Integration



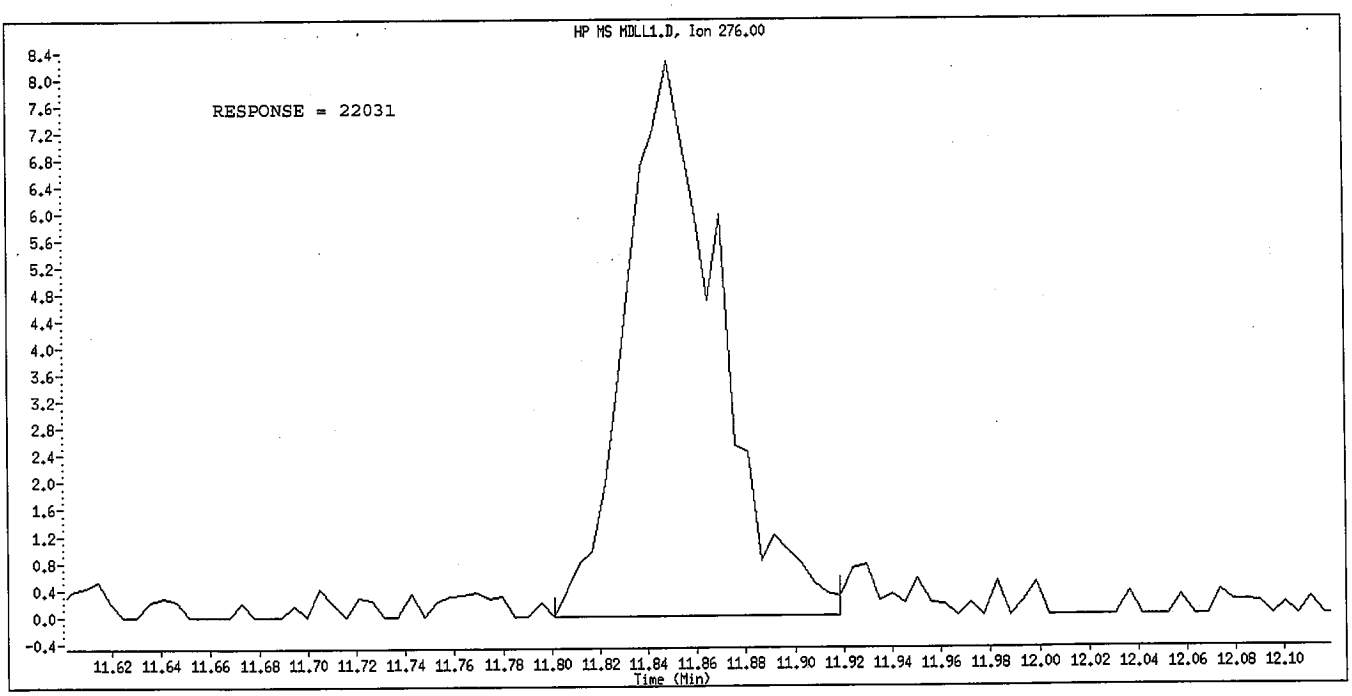
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 11:55
Instrument ID: a4hp10.i
Client ID:
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/12/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

okmw 3/12/10

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\MDLL2.D
Lab Smp Id: mdll2
Inj Date : 12-MAR-2010 12:15
Operator : 001710 Inst ID: a4hp10.i
Smp Info : mdll2,00312a.b,8270C-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Meth Date : 12-Mar-2010 09:46 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 16:10 Cal File: 1SL0308.D
Als bottle: 9 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	3.397	3.397	(1.000)	275096	2.00000		(Q)
* 2 Naphthalene-d8	136	4.284	4.290	(1.000)	1088213	2.00000		
* 3 Acenaphthene-d10	164	5.550	5.556	(1.000)	623949	2.00000		
* 4 Phenanthrene-d10	188	6.635	6.635	(1.000)	993671	2.00000		
* 5 Chrysene-d12	240	8.579	8.590	(1.000)	1106035	2.00000		
* 6 Perylene-d12	264	9.942	9.947	(1.000)	892905	2.00000		
9 Pyridine	79	1.795	1.789	(0.528)	36722	0.19030	0.19030	
10 N-Nitrosodimethylamine	74	1.763	1.763	(0.519)	21938	0.20346	0.20346	
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	2.169	2.174	(0.638)	21315	0.19791	0.19791	
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	3.104	3.109	(0.914)	28937	0.26611	0.26610	
21 Aniline	93	3.168	3.173	(0.932)	63764	0.24043	0.24043	
22 Phenol	94	3.109	3.114	(0.915)	48101	0.22080	0.22080	
23 bis(2-Chloroethyl)ether	93	3.194	3.194	(0.940)	42902	0.24733	0.24733	
24 2-Chlorophenol	128	3.248	3.253	(0.956)	43796	0.25857	0.25857	
26 1,3-Dichlorobenzene	146	3.360	3.360	(0.989)	44398	0.24752	0.24752	
27 1,4-Dichlorobenzene	146	3.408	3.408	(1.003)	46729	0.26292	0.26292	
28 1,2-Dichlorobenzene	146	3.515	3.515	(1.035)	45799	0.27114	0.27114	
29 Benzyl Alcohol	108	3.467	3.472	(1.020)	9047	0.08197	0.081974	
30 2-Methylphenol	108	3.526	3.531	(1.038)	37315	0.23802	0.23802	
31 bis(2-Chloroisopropyl)ether	45	3.558	3.558	(1.047)	46572	0.19626	0.19626	
37 Acetophenone	105	3.659	3.665	(1.077)	58682	0.26184	0.26184	
32 N-Nitroso-di-n-propylamine	70	3.643	3.654	(1.072)	29959	0.25310	0.25310	
192 4-Methylphenol	108	3.627	3.632	(1.068)	42270	0.25681	0.25681	
34 Hexachloroethane	117	3.750	3.750	(1.104)	15992	0.25353	0.25352	
35 Nitrobenzene	77	3.782	3.787	(0.883)	44074	0.23933	0.23933	
41 Isophorone	82	3.942	3.948	(0.920)	82372	0.24052	0.24052	
42 2-Nitrophenol	139	4.006	4.006	(0.935)	21718	0.24315	0.24315	
43 2,4-Dimethylphenol	107	4.006	4.012	(0.935)	43125	0.26329	0.26329	
44 bis(2-Chloroethoxy)methane	93	4.076	4.081	(0.951)	44187	0.22583	0.22583	
46 2,4-Toluenediamene	121	5.102	5.107	(1.191)	20549	0.40455	0.40455	
47 1,3,5-Trichlorobenzene	180	4.012	4.017	(0.936)	40342	0.26940	0.26940	
48 2,4-Dichlorophenol	162	4.167	4.172	(0.973)	31459	0.24590	0.24590	
49 Benzoic Acid	122	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
50	1,2,4-Trichlorobenzene	180	4.236	4.241	(0.989)	37103	0.25024	0.25024
51	Naphthalene	128	4.300	4.306	(1.004)	131019	0.26476	0.26476
52	4-Chloroaniline	127	4.322	4.322	(1.009)	50215	0.24019	0.24019
56	Hexachlorobutadiene	225	4.375	4.375	(1.021)	21063	0.28081	0.28081
210	Caprolactam	113	4.546	4.583	(1.061)	11194	0.21893	0.21893 (Q)
57	1,2,3-Trichlorobenzene	180	4.396	4.402	(1.026)	36632	0.26441	0.26441
59	4-Chloro-3-Methylphenol	107	4.653	4.653	(1.086)	35353	0.26685	0.26685
62	2-Methylnaphthalene	142	4.792	4.797	(1.118)	69909	0.25602	0.25602
63	1-Methylnaphthalene	142	4.867	4.867	(1.136)	79975	0.25808	0.25808
64	Hexachlorocyclopentadiene	237	4.899	4.904	(0.883)	14371	0.17088	0.17088
66	2,4,6-Trichlorophenol	196	4.984	4.989	(0.898)	21395	0.22152	0.22152
67	2,4,5-Trichlorophenol	196	5.011	5.016	(0.903)	24186	0.23623	0.23623
211	1,1'-Biphenyl	154	5.123	5.123	(0.923)	105297	0.25695	0.25695
68	1,2,3,5-Tetrachlorobenzene	216	4.899	4.904	(0.883)	36275	0.24627	0.24627
70	2-Chloronaphthalene	162	5.144	5.150	(0.927)	78583	0.24776	0.24776
73	2-Nitroaniline	65	5.203	5.208	(0.937)	20278	0.21922	0.21922
74	1,2,3,4-Tetrachlorobenzene	216	5.118	5.123	(0.922)	34651	0.25782	0.25782
76	Dimethylphthalate	163	5.321	5.326	(0.959)	88510	0.25490	0.25490
78	2,6-Dinitrotoluene	165	5.374	5.379	(0.968)	18511	0.23448	0.23448
79	Acenaphthylene	152	5.449	5.454	(0.982)	123906	0.24612	0.24612
80	1,2-Dinitrobenzene	168	5.417	5.422	(0.976)	9493	0.23543	0.23543
81	3-Nitroaniline	138	5.502	5.508	(0.991)	21391	0.24079	0.24079
82	Acenaphthene	153	5.577	5.577	(1.005)	80020	0.25382	0.25382
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	5.614	5.604	(1.012)	8905	0.21085	0.21085 (QM)
86	Dibenzofuran	168	5.700	5.700	(1.027)	112065	0.25167	0.25167
87	2,4-Dinitrotoluene	165	5.668	5.673	(1.021)	24280	0.23329	0.23329
91	2,3,5,6-Tetrachlorophenol	232	5.748	5.748	(1.036)	16968	0.20974	0.20974
93	Diethylphthalate	149	5.828	5.833	(1.050)	85933	0.25764	0.25764
94	Fluorene	166	5.946	5.951	(1.071)	88512	0.24468	0.24468
95	4-Chlorophenyl-phenylether	204	5.935	5.935	(1.069)	43159	0.25909	0.25909
96	4-Nitroaniline	138	5.940	5.951	(1.070)	21874	0.23723	0.23723
98	4,6-Dinitro-2-methylphenol	198	5.962	5.967	(0.899)	6795	0.32094	0.32094
99	N-Nitrosodiphenylamine	169	6.015	6.020	(0.907)	66081	0.26335	0.26335
100	1,2-Diphenylhydrazine	77	6.047	6.053	(0.911)	81961	0.21722	0.21722
106	4-Bromophenyl-phenylether	248	6.293	6.293	(0.948)	22701	0.25238	0.25238
107	Hexachlorobenzene	284	6.346	6.352	(0.957)	23153	0.26273	0.26273
212	Atrazine	200	6.384	6.389	(0.962)	16691	0.27955	0.27955
111	Pentachlorophenol	266	6.491	6.485	(0.978)	10224	0.45838	0.45838 (M)
115	Phenanthrene	178	6.651	6.656	(1.002)	130641	0.25114	0.25114
116	Anthracene	178	6.688	6.694	(1.008)	124386	0.24121	0.24121
119	Carbazole	167	6.795	6.795	(1.024)	121896	0.24654	0.24654
120	Di-n-Butylphthalate	149	7.009	7.014	(1.056)	140929	0.26548	0.26548
123	Fluoranthene	202	7.516	7.522	(1.133)	129624	0.25067	0.25067
124	Benzidine	184	7.596	7.596	(0.885)	48470	0.39001	0.39001
125	Pyrene	202	7.687	7.693	(0.896)	140016	0.25300	0.25300
131	Butylbenzylphthalate	149	8.115	8.120	(0.946)	59477	0.26275	0.26275
133	3,3'-Dimethoxybenzidine	244	8.499	8.505	(0.991)	16532	0.51139	0.51139
135	3,3'-Dichlorobenzidine	252	8.531	8.542	(0.994)	42833	0.23556	0.23556
136	Benzo(a)Anthracene	228	8.574	8.579	(0.999)	137848	0.25656	0.25656
137	Chrysene	228	8.601	8.611	(1.002)	130117	0.25216	0.25216
138	4,4'-Methylene bis(o-chloroan	231	8.531	8.537	(0.994)	19840	0.27244	0.27244
139	bis(2-ethylhexyl)Phthalate	149	8.526	8.531	(0.994)	89150	0.27842	0.27842
140	Di-n-octylphthalate	149	9.044	9.050	(0.910)	137582	0.38366	0.38366

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
141 Benzo(b)fluoranthene	252	9.514	9.525	(0.957)	123476	0.26834	0.26834
142 Benzo(k)fluoranthene	252	9.541	9.557	(0.960)	122280	0.23032	0.23032
146 Benzo(a)pyrene	252	9.878	9.888	(0.994)	107939	0.24667	0.24666
149 Indeno(1,2,3-cd)pyrene	276	11.400	11.427	(1.147)	112599	0.24641	0.24641
150 Dibenz(a,h)anthracene	278	11.416	11.443	(1.148)	101510	0.32636	0.32636
151 Benzo(g,h,i)perylene	276	11.849	11.876	(1.192)	95592	0.24549	0.24549
198 1,4-Dioxane	88	1.592	1.592	(0.469)	13409	0.17517	0.17517(M)
101 Diphenylamine	169	6.015	6.020	(0.907)	66081	0.26335	0.26335

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\MDLL2.D
Date : 12-MAR-2010 12:15
Client ID:
Sample Info: mdll2,00312a.b,8270C-625,1-8270420.sub
Column phase: db5.625

Instrument: a4hp10.i
Operator: 001710
Column diameter: 0.32

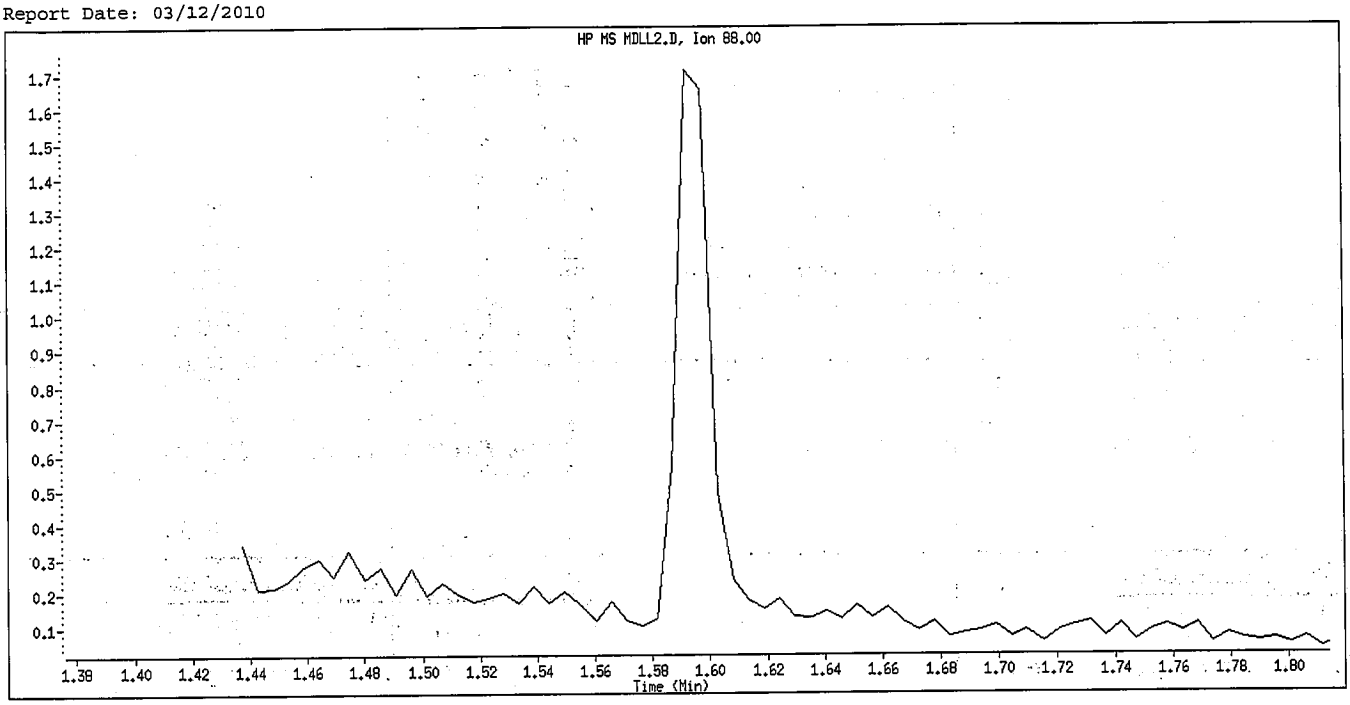
\\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\MDLL2.D

Y (x10^6)

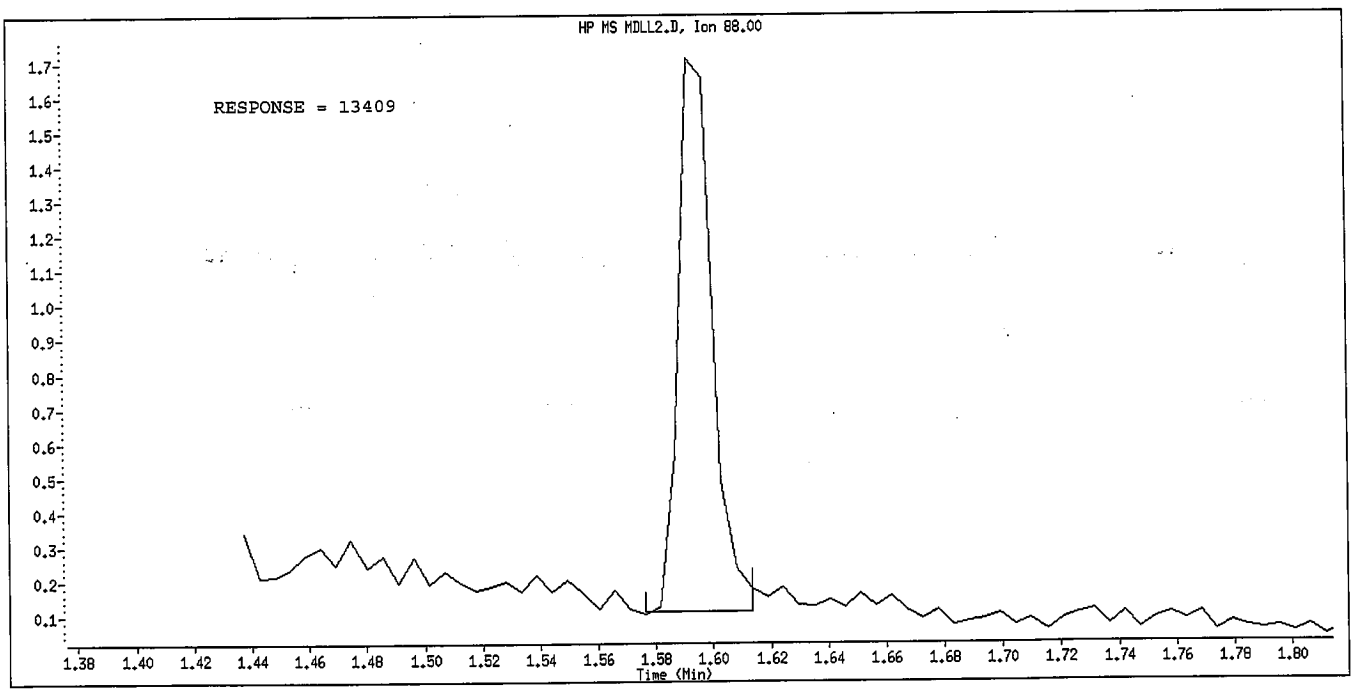
Min

-1,4-Dioxane
-Pyridine+
-3-Chloropropionitrile
-2-Fluorophenol
-Benzaldehyde+
-Aniline+
-2-Chlorophenol+
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-Bis(2-Chloroethoxy)methan
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Naphthalene-d8+
-Hexachlorobutadiene+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-2,4-Toluenediamene+
-Dimethylphthalate+
Acenaphthene-d10+
-Dibenzofuran+
-2,3,5,6-Tetrachlorophenol
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
Phenanthrene-d10+
-Carbazole
-Di-n-Butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene

Data File Name: MDLL2.D
Inj. Date and Time: 12-MAR-2010 12:15
Instrument ID: a4hpl0.i
Client ID:
Compound Name: 1,4-Dioxane
CAS #: 123-91-1
Report Date: 03/12/2010



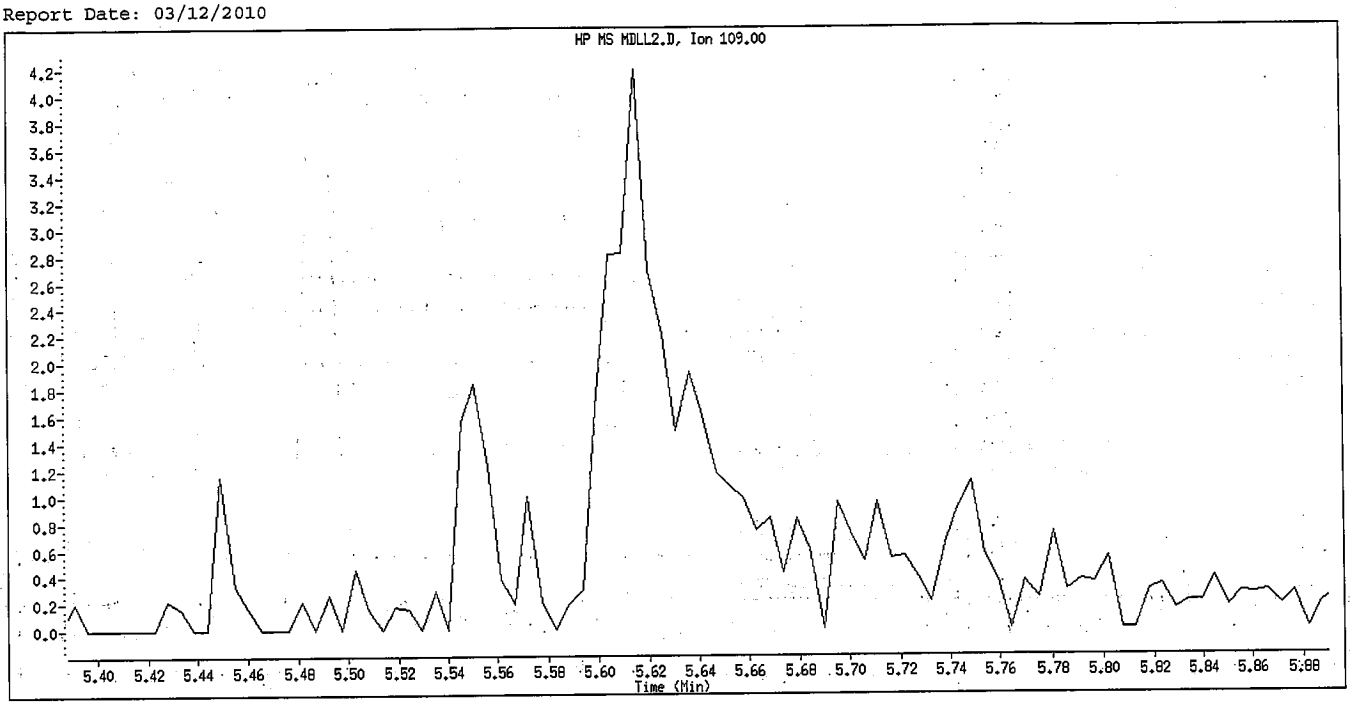
Original Integration



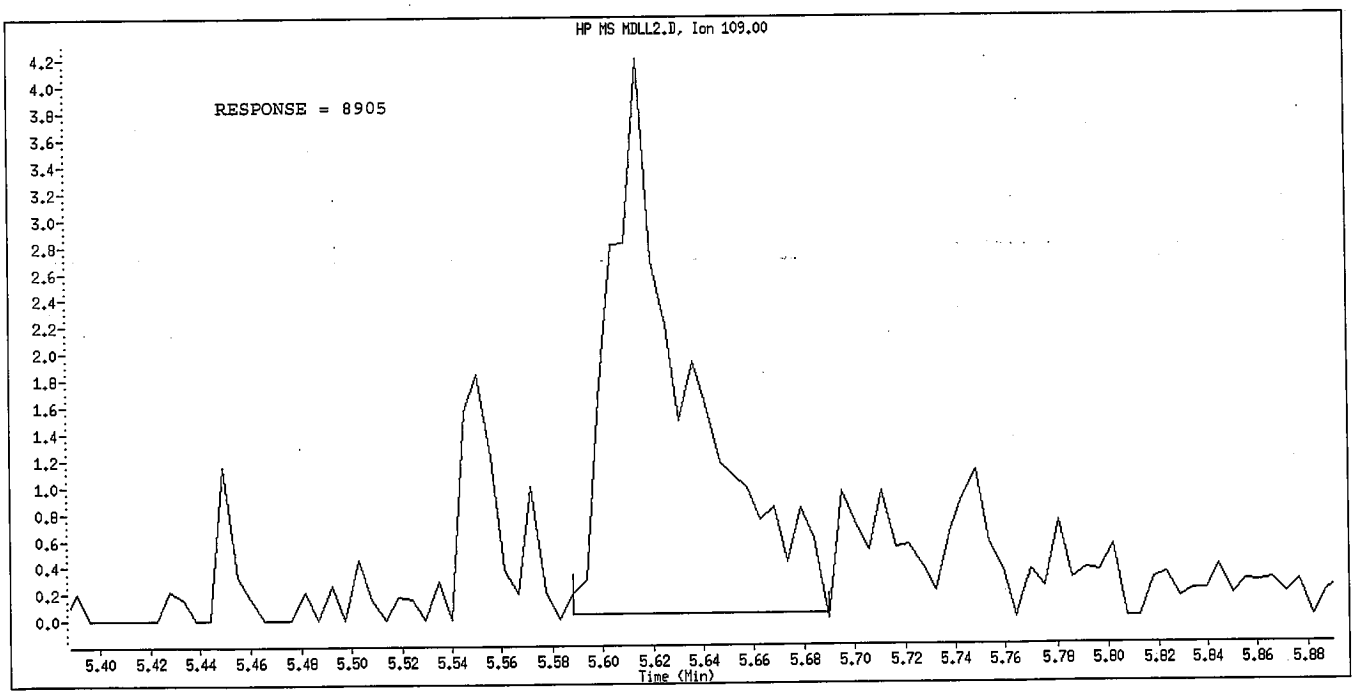
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL2.D
Inj. Date and Time: 12-MAR-2010 12:15
Instrument ID: a4hpl0.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/12/2010



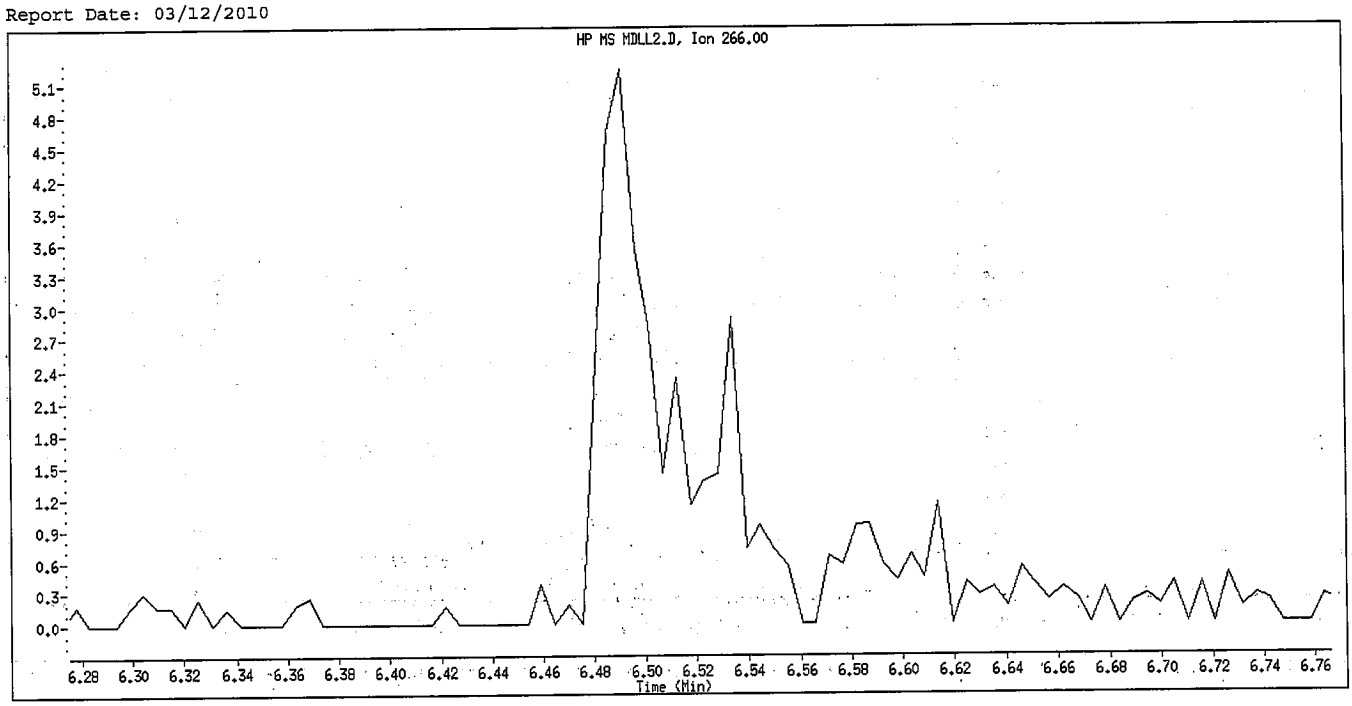
Original Integration



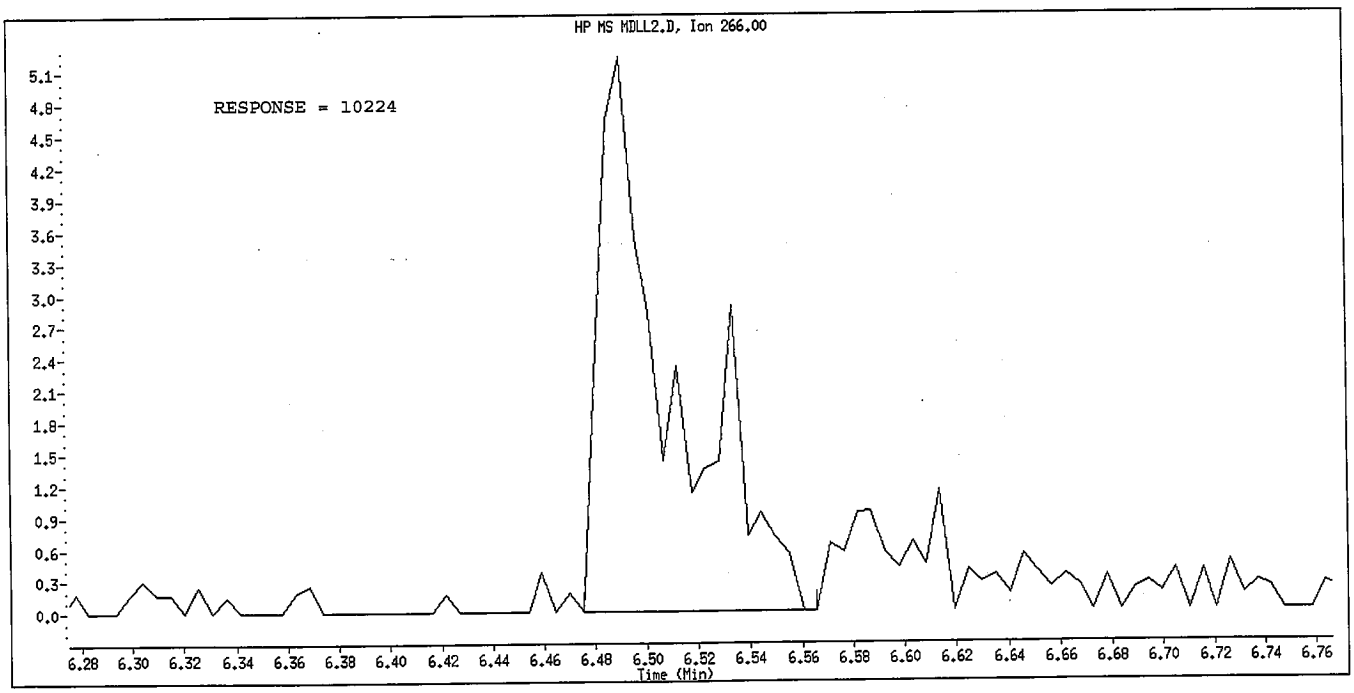
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL2.D
Inj. Date and Time: 12-MAR-2010 12:15
Instrument ID: a4hp10.i
Client ID:
Compound Name: Pentachlorophenol
CAS #: 87-86-5
Report Date: 03/12/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica North Canton

OKmw 3/12/10

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\MDLL3.D
Lab Smp Id: mdll3
Inj Date : 12-MAR-2010 12:34
Operator : 001710 Inst ID: a4hp10.i
Smp Info : mdll3,00312a.b,8270C-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Meth Date : 12-Mar-2010 09:46 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 16:10 Cal File: 1SL0308.D
Als bottle: 10 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	3.392	3.397	(1.000)	287228	2.00000		(Q)
* 2 Naphthalene-d8	136	4.284	4.290	(1.000)	1137823	2.00000		
* 3 Acenaphthene-d10	164	5.550	5.556	(1.000)	641125	2.00000		
* 4 Phenanthrene-d10	188	6.635	6.635	(1.000)	1053583	2.00000		
* 5 Chrysene-d12	240	8.579	8.590	(1.000)	1170591	2.00000		
* 6 Perylene-d12	264	9.936	9.947	(1.000)	956982	2.00000		
9 Pyridine	79	1.795	1.789	(0.529)	75619	0.37532	0.37532	
10 N-Nitrosodimethylamine	74	1.757	1.763	(0.518)	45894	0.40767	0.40766	
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	2.169	2.174	(0.639)	45132	0.40136	0.40136	
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	3.103	3.109	(0.915)	61648	0.54297	0.54297	
21 Aniline	93	3.168	3.173	(0.934)	130059	0.46969	0.46969	
22 Phenol	94	3.109	3.114	(0.917)	100629	0.44241	0.44241	
23 bis(2-Chloroethyl)ether	93	3.194	3.194	(0.942)	87747	0.48449	0.48449	
24 2-Chlorophenol	128	3.248	3.253	(0.957)	86960	0.49173	0.49173	
26 1,3-Dichlorobenzene	146	3.360	3.360	(0.991)	95207	0.50836	0.50836	
27 1,4-Dichlorobenzene	146	3.408	3.408	(1.005)	91469	0.49291	0.49291	
28 1,2-Dichlorobenzene	146	3.515	3.515	(1.036)	91708	0.52000	0.52000	
29 Benzyl Alcohol	108	3.467	3.472	(1.022)	29680	0.25757	0.25757	
30 2-Methylphenol	108	3.526	3.531	(1.039)	74600	0.45575	0.45575	
31 bis(2-Chloroisopropyl)ether	45	3.552	3.558	(1.047)	93704	0.37821	0.37821	
37 Acetophenone	105	3.659	3.665	(1.079)	124416	0.53171	0.53171	
32 N-Nitroso-di-n-propylamine	70	3.643	3.654	(1.074)	60983	0.49344	0.49344	
192 4-Methylphenol	108	3.627	3.632	(1.069)	89560	0.52113	0.52113	
34 Hexachloroethane	117	3.750	3.750	(1.106)	33973	0.51583	0.51583	
35 Nitrobenzene	77	3.782	3.787	(0.883)	90407	0.46952	0.46952	
41 Isophorone	82	3.942	3.948	(0.920)	174537	0.48742	0.48742	
42 2-Nitrophenol	139	4.006	4.006	(0.935)	46033	0.49291	0.49291	
43 2,4-Dimethylphenol	107	4.006	4.012	(0.935)	88190	0.51496	0.51496	
44 bis(2-Chloroethoxy)methane	93	4.076	4.081	(0.951)	98208	0.48004	0.48004	
46 2,4-Toluenediamene	121	5.101	5.107	(1.191)	51422	0.89005	0.89005	
47 1,3,5-Trichlorobenzene	180	4.012	4.017	(0.936)	79915	0.51040	0.51040	
48 2,4-Dichlorophenol	162	4.172	4.172	(0.974)	67023	0.50104	0.50104	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
49	Benzoic Acid	122	4.022	4.092	(0.939)	58717	1.18081	1.1808 (H)
50	1,2,4-Trichlorobenzene	180	4.236	4.241	(0.989)	78966	0.50935	0.50935
51	Naphthalene	128	4.300	4.306	(1.004)	263406	0.50907	0.50907
52	4-Chloroaniline	127	4.321	4.322	(1.009)	105561	0.48291	0.48291
56	Hexachlorobutadiene	225	4.375	4.375	(1.021)	42898	0.54697	0.54697
210	Caprolactam	113	4.551	4.583	(1.062)	27140	0.50765	0.50765 (Q)
57	1,2,3-Trichlorobenzene	180	4.396	4.402	(1.026)	73459	0.50711	0.50711
59	4-Chloro-3-Methylphenol	107	4.653	4.653	(1.086)	71703	0.51762	0.51762
62	2-Methylnaphthalene	142	4.792	4.797	(1.118)	145524	0.50970	0.50970
63	1-Methylnaphthalene	142	4.866	4.867	(1.136)	170180	0.52523	0.52523
64	Hexachlorocyclopentadiene	237	4.898	4.904	(0.883)	35847	0.41482	0.41482
66	2,4,6-Trichlorophenol	196	4.984	4.989	(0.898)	45382	0.45729	0.45729
67	2,4,5-Trichlorophenol	196	5.011	5.016	(0.903)	50982	0.48461	0.48461
211	1,1'-Biphenyl	154	5.123	5.123	(0.923)	212226	0.50400	0.50400
68	1,2,3,5-Tetrachlorobenzene	216	4.898	4.904	(0.883)	75862	0.50124	0.50124
70	2-Chloronaphthalene	162	5.144	5.150	(0.927)	165791	0.50871	0.50871
73	2-Nitroaniline	65	5.203	5.208	(0.937)	45686	0.48067	0.48067
74	1,2,3,4-Tetrachlorobenzene	216	5.117	5.123	(0.922)	68595	0.49671	0.49670
76	Dimethylphthalate	163	5.320	5.326	(0.959)	186117	0.52165	0.52165
78	2,6-Dinitrotoluene	165	5.374	5.379	(0.968)	40832	0.50337	0.50337
79	Acenaphthylene	152	5.449	5.454	(0.982)	266328	0.51484	0.51484
80	1,2-Dinitrobenzene	168	5.417	5.422	(0.976)	21260	0.51314	0.51314
81	3-Nitroaniline	138	5.497	5.508	(0.990)	45642	0.50002	0.50002
82	Acenaphthene	153	5.572	5.577	(1.004)	167520	0.51712	0.51712
83	2,4-Dinitrophenol	184	5.577	5.582	(1.005)	13252	0.77777	0.77777 (Q)
85	4-Nitrophenol	109	5.609	5.604	(1.011)	17998	0.41474	0.41474 (QM)
86	Dibenzofuran	168	5.700	5.700	(1.027)	234491	0.51249	0.51249
87	2,4-Dinitrotoluene	165	5.668	5.673	(1.021)	57559	0.53822	0.53822
91	2,3,5,6-Tetrachlorophenol	232	5.748	5.748	(1.036)	36264	0.43625	0.43625
93	Diethylphthalate	149	5.828	5.833	(1.050)	182170	0.53154	0.53154
94	Fluorene	166	5.946	5.951	(1.071)	196227	0.52791	0.52791
95	4-Chlorophenyl-phenylether	204	5.935	5.935	(1.069)	91339	0.53363	0.53363
96	4-Nitroaniline	138	5.940	5.951	(1.070)	51961	0.54843	0.54843
98	4,6-Dinitro-2-methylphenol	198	5.962	5.967	(0.899)	19095	0.49036	0.49036
99	N-Nitrosodiphenylamine	169	6.015	6.020	(0.907)	139846	0.52562	0.52562
100	1,2-Diphenylhydrazine	77	6.047	6.053	(0.911)	180890	0.45215	0.45215
106	4-Bromophenyl-phenylether	248	6.293	6.293	(0.948)	49669	0.52079	0.52079
107	Hexachlorobenzene	284	6.346	6.352	(0.957)	47796	0.51153	0.51153
212	Atrazine	200	6.384	6.389	(0.962)	33574	0.53034	0.53034
111	Pentachlorophenol	266	6.485	6.485	(0.977)	24740	0.68633	0.68633
115	Phenanthrene	178	6.651	6.656	(1.002)	279536	0.50680	0.50680
116	Anthracene	178	6.688	6.694	(1.008)	278956	0.51020	0.51020
119	Carbazole	167	6.795	6.795	(1.024)	263587	0.50280	0.50280
120	Di-n-Butylphthalate	149	7.009	7.014	(1.056)	298152	0.52972	0.52972
123	Fluoranthene	202	7.516	7.522	(1.133)	273849	0.49947	0.49946
124	Benzidine	184	7.596	7.596	(0.885)	139356	0.66658	0.66658
125	Pyrene	202	7.687	7.693	(0.896)	300817	0.51358	0.51358
131	Butylbenzylphthalate	149	8.114	8.120	(0.946)	128379	0.53585	0.53585
133	3,3'-Dimethoxybenzidine	244	8.499	8.505	(0.991)	50030	0.75730	0.75730
135	3,3'-Dichlorobenzidine	252	8.531	8.542	(0.994)	97658	0.50745	0.50745
136	Benzo(a)Anthracene	228	8.574	8.579	(0.999)	279606	0.49170	0.49170
137	Chrysene	228	8.601	8.611	(1.002)	282933	0.51807	0.51807
138	4,4'-Methylene bis(o-chloroan	231	8.531	8.537	(0.994)	48427	0.57592	0.57592
139	bis(2-ethylhexyl)Phthalate	149	8.526	8.531	(0.994)	188755	0.55699	0.55699

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
140 Di-n-octylphthalate	149	9.044	9.050	(0.910)	291341	0.64354	0.64354
141 Benzo(b)fluoranthene	252	9.514	9.525	(0.958)	240863	0.48841	0.48841
142 Benzo(k)fluoranthene	252	9.541	9.557	(0.960)	275987	0.48503	0.48503
146 Benzo(a)pyrene	252	9.872	9.888	(0.994)	226436	0.48281	0.48281
149 Indeno(1,2,3-cd)pyrene	276	11.395	11.427	(1.147)	240484	0.49103	0.49103
150 Dibenz(a,h)anthracene	278	11.411	11.443	(1.148)	204214	0.56058	0.56058
151 Benzo(g,h,i)perylene	276	11.843	11.876	(1.192)	195887	0.46937	0.46937
198 1,4-Dioxane	88	1.592	1.592	(0.469)	34475	0.43134	0.43134
101 Diphenylamine	169	6.015	6.020	(0.907)	139846	0.52562	0.52562

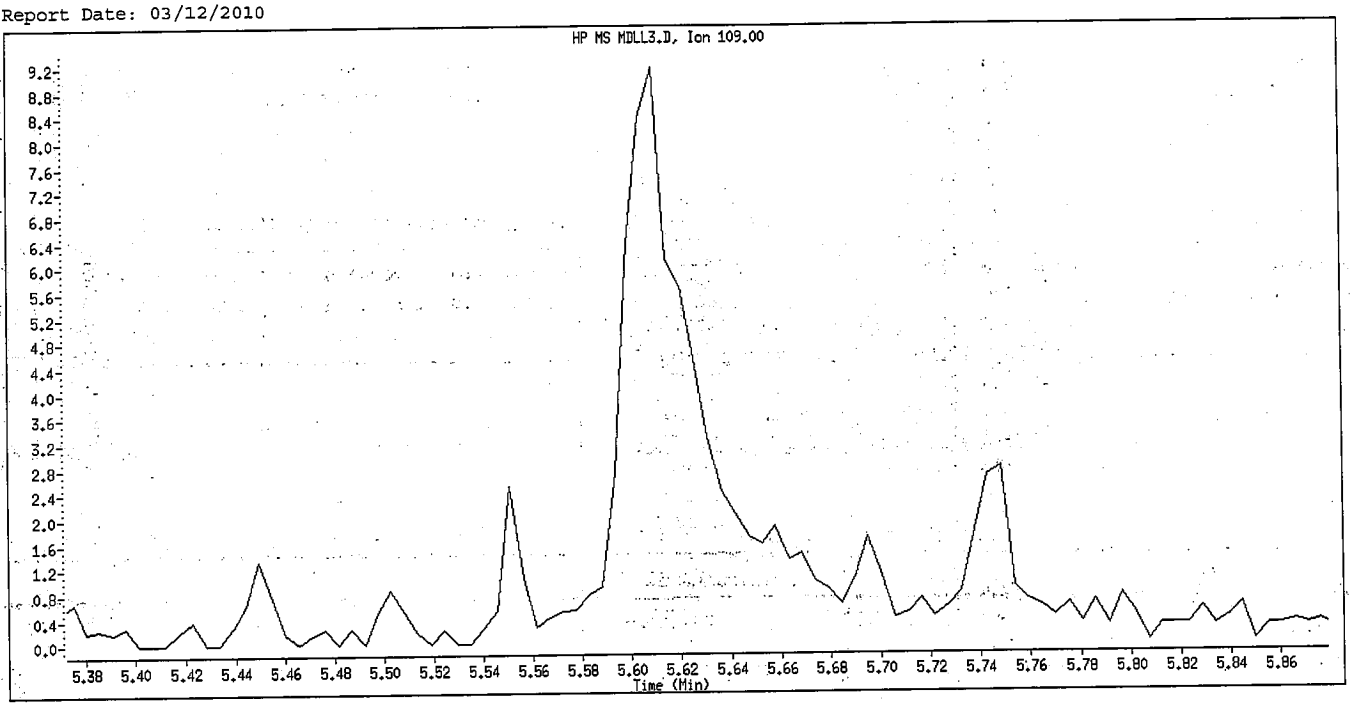
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

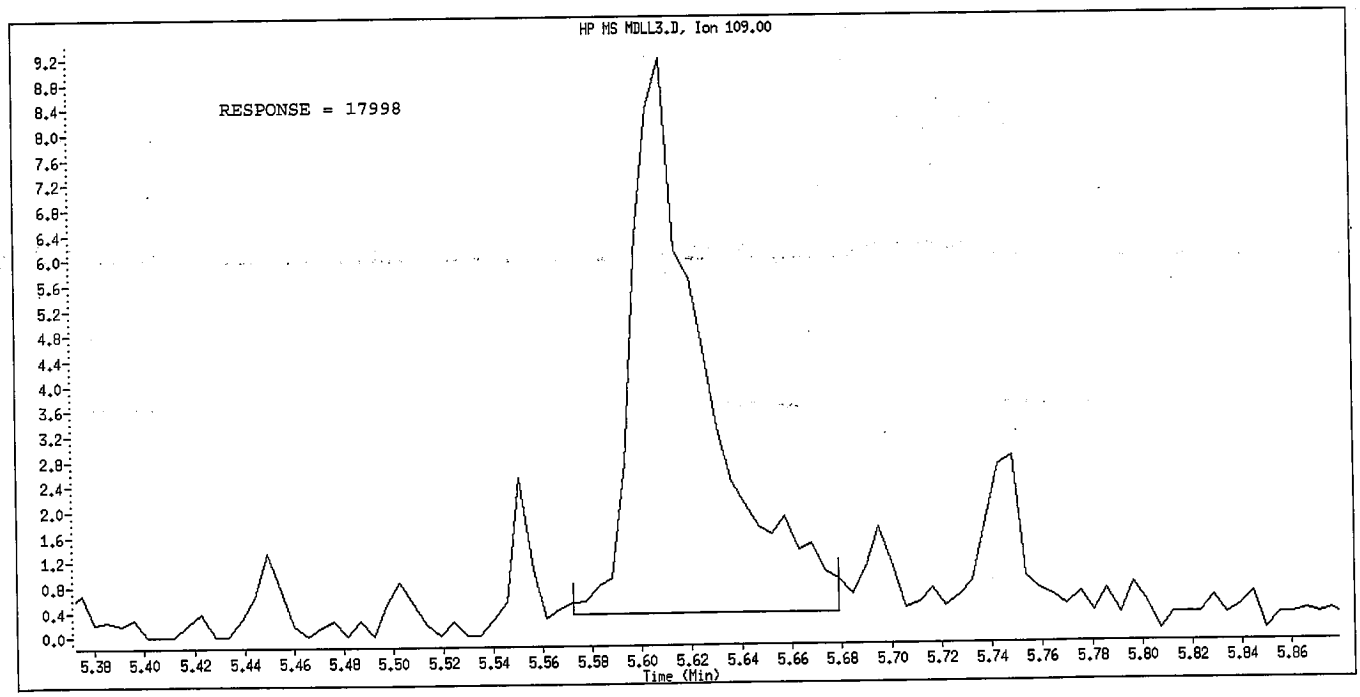
Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\MDLL3.D
Date : 12-MAR-2010 12:34
Client ID:
Sample Info: mdll3,00312a,b,8270C-625,1-8270420.sub
Column phase: db5.625
Instrument: a4hp10.i
Operator: 001710
Column diameter: 0.32
Y (x10^6)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine
Pyridine
-3-Chloropropionitrile
-2-Fluorophenol
-Aniline+
-Benzaldehyde+
-2-Chlorophenol+
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-Nitrophenol+
-bis(2-Chloroethoxy)methan
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Naphthalene-d8+
-Hexachlorobutadiene+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-2,4-Toluenediamene+
Dimethylphthalate+
3-Nitroaniline
Acenaphthene-d10+
-Dibenzofuran+
-2,3,5,6-Tetrachlorophenol
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
Phenanthrene-d10+
-Carbazole
-Di-n-Butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
-3,3'-Dimethoxybenzidine+
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\MDLL3.D

Page 1

Data File Name: MDLL3.D
Inj. Date and Time: 12-MAR-2010 12:34
Instrument ID: a4hp10.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/12/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308t.b\1QMDLL1.D
Lab Smp Id: L1 Client Smp ID: SSTD001
Inj Date : 08-MAR-2010 16:30
Operator : 001710 Inst ID: a4hp10.i
Smp Info : L1,00308a.b,8270C-625,1-pah.sub,1,,1
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp10.i\00308t.b\8270C-625.m
Meth Date : 09-Mar-2010 15:14 a4hp10.i Quant Type: ISTD
Cal Date : 08-MAR-2010 17:49 Cal File: 1SMH0308.D
Als bottle: 6 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.475	(1.000)	346610	2.00000		(Q)
* 2 Naphthalene-d8	136	4.362	4.362	(1.000)	1326890	2.00000		
* 3 Acenaphthene-d10	164	5.628	5.628	(1.000)	696658	2.00000		
* 4 Phenanthrene-d10	188	6.707	6.713	(1.000)	1091424	2.00000		
* 5 Chrysene-d12	240	8.657	8.673	(1.000)	1199655	2.00000		
* 6 Perylene-d12	264	10.062	10.078	(1.000)	963960	2.00000		
9 Pyridine	79	1.889	1.883	(0.544)	10006	0.04115	0.041154	(M)
10 N-Nitrosodimethylamine	74	1.846	1.846	(0.532)	7139	0.05255	0.052550	(QM)
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	2.252	2.257	(0.649)	6556	0.04831	0.048314	(QM)
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	3.181	3.187	(0.917)	7889	0.05758	0.057579	
21 Aniline	93	3.240	3.251	(0.934)	15786	0.04724	0.047242	
22 Phenol	94	3.181	3.187	(0.917)	13642	0.04970	0.049701	
23 bis(2-Chloroethyl)ether	93	3.267	3.272	(0.942)	11998	0.05490	0.054897	
24 2-Chlorophenol	128	3.326	3.331	(0.958)	9227	0.04324	0.043237	
26 1,3-Dichlorobenzene	146	3.438	3.438	(0.991)	11014	0.04873	0.048734	
27 1,4-Dichlorobenzene	146	3.486	3.486	(1.005)	11356	0.05071	0.050712	(QM)
28 1,2-Dichlorobenzene	146	3.593	3.593	(1.035)	11119	0.05225	0.052246	
29 Benzyl Alcohol	108	3.539	3.545	(1.020)	5958	0.04285	0.042846	
30 2-Methylphenol	108	3.598	3.604	(1.037)	9358	0.04738	0.047376	
31 bis(2-Chloroisopropyl)ether	45	3.630	3.630	(1.046)	17836	0.05966	0.059656	
37 Acetophenone	105	3.732	3.737	(1.075)	14359	0.05085	0.050852	
32 N-Nitroso-di-n-propylamine	70	3.716	3.726	(1.071)	7389	0.04955	0.049545	
192 4-Methylphenol	108	3.694	3.705	(1.065)	9710	0.04682	0.046821	
34 Hexachloroethane	117	3.828	3.828	(1.103)	4022	0.05061	0.050606	
35 Nitrobenzene	77	3.860	3.865	(0.885)	10324	0.04598	0.045976	
41 Isophorone	82	4.015	4.026	(0.920)	17547	0.04202	0.042020	
42 2-Nitrophenol	139	4.079	4.084	(0.935)	3505	0.03218	0.032183	(Q)
43 2,4-Dimethylphenol	107	4.079	4.084	(0.935)	7389	0.03700	0.036998	
44 bis(2-Chloroethoxy)methane	93	4.148	4.154	(0.951)	12041	0.05047	0.050470	
46 2,4-Toluenediamene	121	Compound Not Detected.						
47 1,3,5-Trichlorobenzene	180	4.090	4.095	(0.938)	9419	0.05159	0.051585	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48	2,4-Dichlorophenol	162	4.245	4.245	(0.973)	6835	0.04382	0.043815
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.314	4.314	(0.989)	9538	0.05276	0.052756
51	Naphthalene	128	4.378	4.378	(1.004)	31655	0.05246	0.052460
52	4-Chloroaniline	127	4.394	4.400	(1.007)	9243	0.03626	0.036259
56	Hexachlorobutadiene	225	4.453	4.453	(1.021)	4387	0.04797	0.047966
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	4.474	4.480	(1.026)	8796	0.05207	0.052069
59	4-Chloro-3-Methylphenol	107	4.715	4.725	(1.081)	6028	0.03732	0.037315
62	2-Methylnaphthalene	142	4.870	4.870	(1.116)	17376	0.05219	0.052188
63	1-Methylnaphthalene	142	4.939	4.944	(1.132)	18772	0.04968	0.049681
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	3323	0.03539	0.035388 (M)
66	2,4,6-Trichlorophenol	196	5.057	5.062	(0.898)	3783	0.03508	0.035080
67	2,4,5-Trichlorophenol	196	5.089	5.089	(0.904)	3730	0.03263	0.032629 (M)
211	1,1'-Biphenyl	154	5.195	5.201	(0.923)	24560	0.05368	0.053677
68	1,2,3,5-Tetrachlorobenzene	216	4.976	4.976	(0.884)	8241	0.05011	0.050110
70	2-Chloronaphthalene	162	5.222	5.228	(0.928)	19031	0.05374	0.053739
73	2-Nitroaniline	65	5.281	5.286	(0.938)	3866	0.03743	0.037433 (QM)
74	1,2,3,4-Tetrachlorobenzene	216	5.195	5.195	(0.923)	8077	0.05382	0.053824
76	Dimethylphthalate	163	5.393	5.399	(0.958)	18612	0.04801	0.048007
78	2,6-Dinitrotoluene	165	5.447	5.452	(0.968)	2422	0.02748	0.027478 (Q)
79	Acenaphthylene	152	5.527	5.532	(0.982)	26156	0.04653	0.046532
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	5.575	5.580	(0.991)	3688	0.03718	0.037182 (M)
82	Acenaphthene	153	5.650	5.655	(1.004)	18398	0.05227	0.052266
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.772	5.778	(1.026)	25374	0.05104	0.051036
87	2,4-Dinitrotoluene	165	5.740	5.746	(1.020)	3693	0.03178	0.031780
91	2,3,5,6-Tetrachlorophenol	232	5.820	5.826	(1.034)	2722	0.03013	0.030135
93	Diethylphthalate	149	5.901	5.906	(1.048)	20204	0.05425	0.054253
94	Fluorene	166	6.024	6.029	(1.070)	20240	0.05011	0.050112
95	4-Chlorophenyl-phenylether	204	6.007	6.008	(1.067)	9759	0.05247	0.052470
96	4-Nitroaniline	138	6.018	6.024	(1.069)	3509	0.03408	0.034084
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	6.088	6.093	(0.908)	13547	0.04915	0.049152
100	1,2-Diphenylhydrazine	77	6.120	6.125	(0.912)	18944	0.04571	0.045710
106	4-Bromophenyl-phenylether	248	6.365	6.365	(0.949)	5564	0.05632	0.056317
107	Hexachlorobenzene	284	6.424	6.430	(0.958)	5610	0.05796	0.057959
212	Atrazine	200	6.451	6.456	(0.962)	2802	0.04273	0.042726
111	Pentachlorophenol	266	6.563	6.563	(0.978)	2885	0.32591	0.32591
115	Phenanthrene	178	6.729	6.729	(1.003)	30997	0.05425	0.054250
116	Anthracene	178	6.766	6.766	(1.009)	28639	0.05056	0.050563
119	Carbazole	167	6.868	6.873	(1.024)	24501	0.04512	0.045116
120	Di-n-Butylphthalate	149	7.081	7.081	(1.056)	27942	0.04792	0.047922
123	Fluoranthene	202	7.594	7.600	(1.132)	28060	0.04940	0.049403
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.765	7.770	(0.897)	30144	0.05022	0.050217
131	Butylbenzylphthalate	149	8.182	8.192	(0.945)	10209	0.04158	0.041580
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	8.604	8.620	(0.994)	5485	0.02781	0.027810
136	Benzo(a)Anthracene	228	8.647	8.663	(0.999)	30113	0.05167	0.051672
137	Chrysene	228	8.679	8.695	(1.002)	31107	0.05558	0.055579
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					

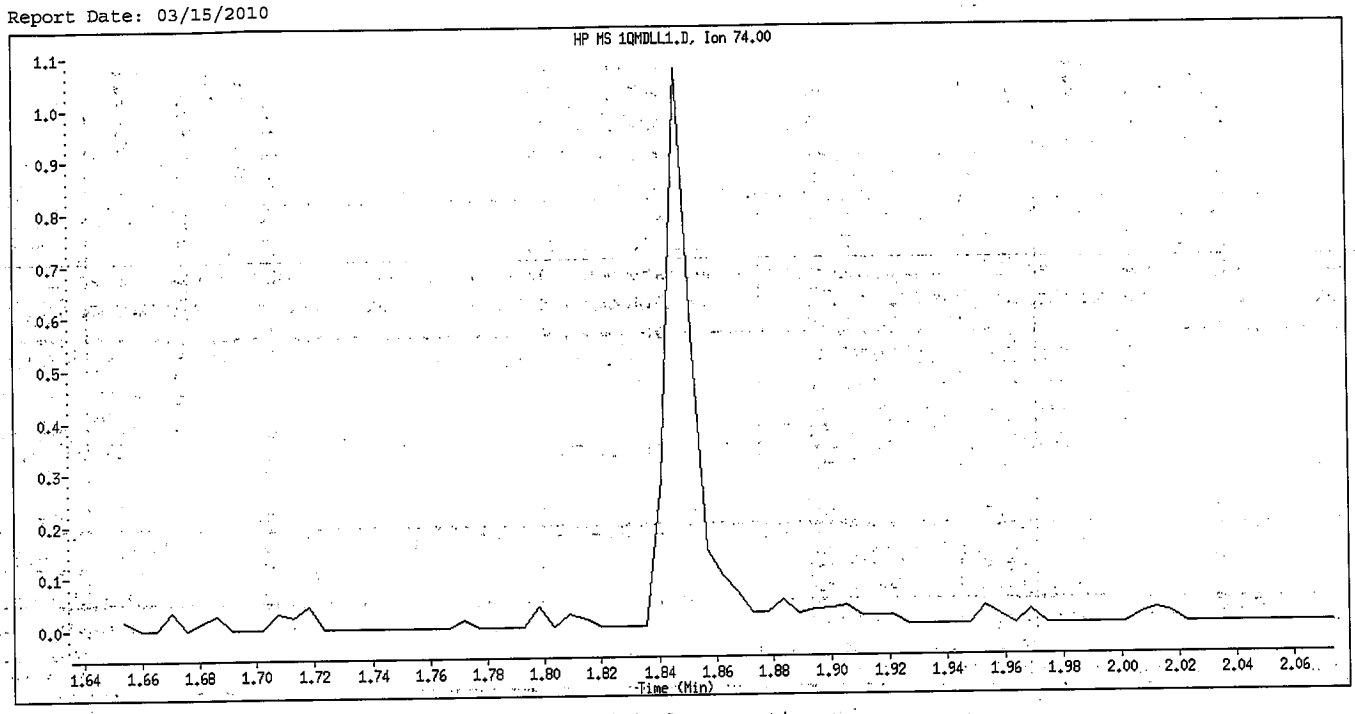
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.593	8.604	(0.993)	15396	0.04433	0.044330
140 Di-n-octylphthalate	149	9.127	9.143	(0.907)	15032	0.14290	0.14290
141 Benzo(b)fluoranthene	252	9.624	9.640	(0.956)	22120	0.04453	0.044529
142 Benzo(k)fluoranthene	252	9.651	9.672	(0.959)	28439	0.04962	0.049618
146 Benzo(a)pyrene	252	9.993	10.020	(0.993)	20376	0.04313	0.043132
149 Indeno(1,2,3-cd)pyrene	276	11.585	11.622	(1.151)	20773	0.04211	0.042108
150 Dibenz(a,h)anthracene	278	11.595	11.638	(1.152)	16058	0.09695	0.096948 (M)
151 Benzo(g,h,i)perylene	276	12.055	12.092	(1.198)	20847	0.04959	0.049590 (M)
198 1,4-Dioxane	88	1.691	1.691	(0.487)	6561	0.06803	0.068026
101 Diphenylamine	169	6.088	6.093	(0.908)	13547	0.04915	0.049152

QC Flag Legend

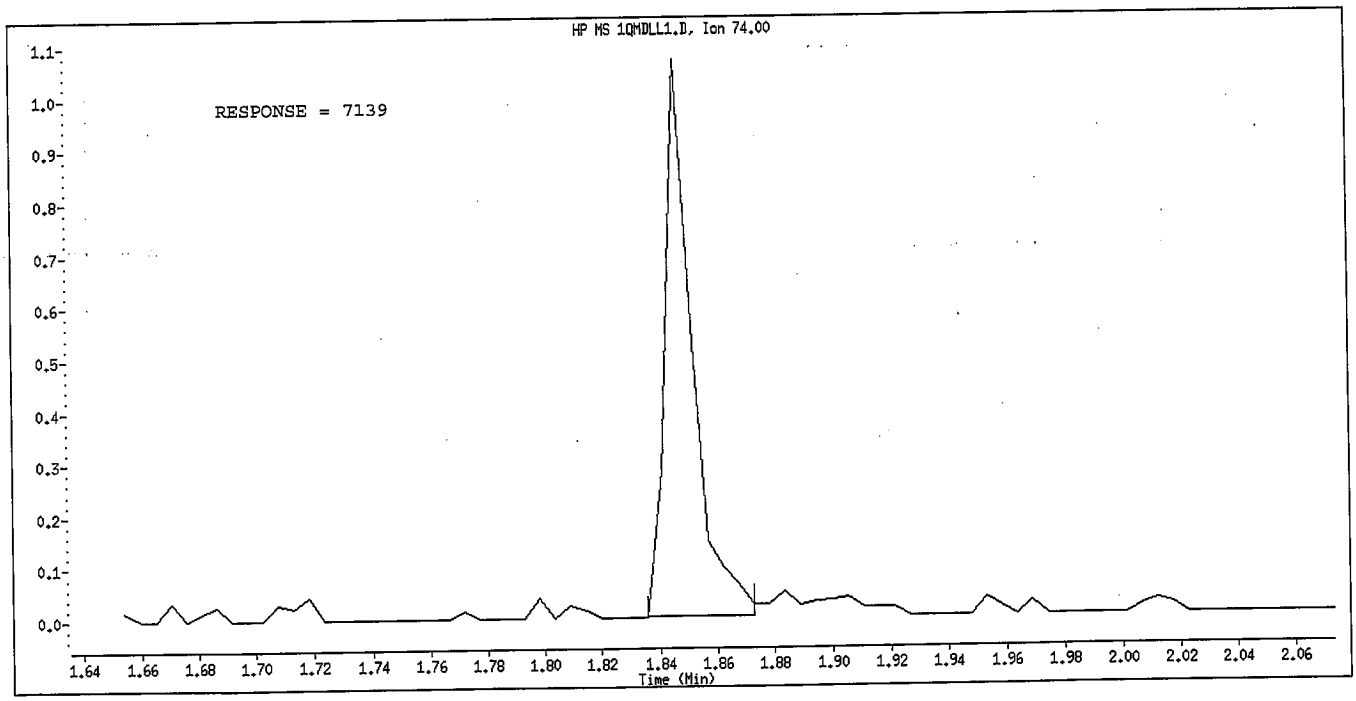
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\MSS\a4hp10,i\00308t,b\1QHDLL1,D
Date : 08-MAR-2010 16:30
Client ID: SSTD001
Sample Info: L1,00308a,b,8270C-625,1-pah,sub,1,,1
Column phase: db5,625
Instrument: a4hp10,i
Operator: 001710
Column diameter: 0.32
Y (x10^6)
Min
-Pyridine
-3-Chloropropionitrile
-Benzaldehyde+
-Aniline+
-2-Chlorophenol
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-Nitrobenzene+
-bis(2-Chloroethoxy)methan
-2,4-Dichlorophenol
-Hexachlorobutadiene+
Naphthalene-d8+
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol
-1,1'-Biphenyl+
-Dimethylphthalate+
-Acenaphthylene+
Acenaphthene-d10+
\\cansvr11\dd\chem\MSS\a4hp10,i\00308t,b\1QHDLL1,D
-Dibenzofuran+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
Phenanthrene-d10+
-Carbazole
-Di-n-Butylphthalate
-Fluoranthene
-Pyrene
-Butylbenzylphthalate
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Perylene-d12+
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene

Data File Name: 1QMDLL1.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID: SSTD001
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 03/15/2010



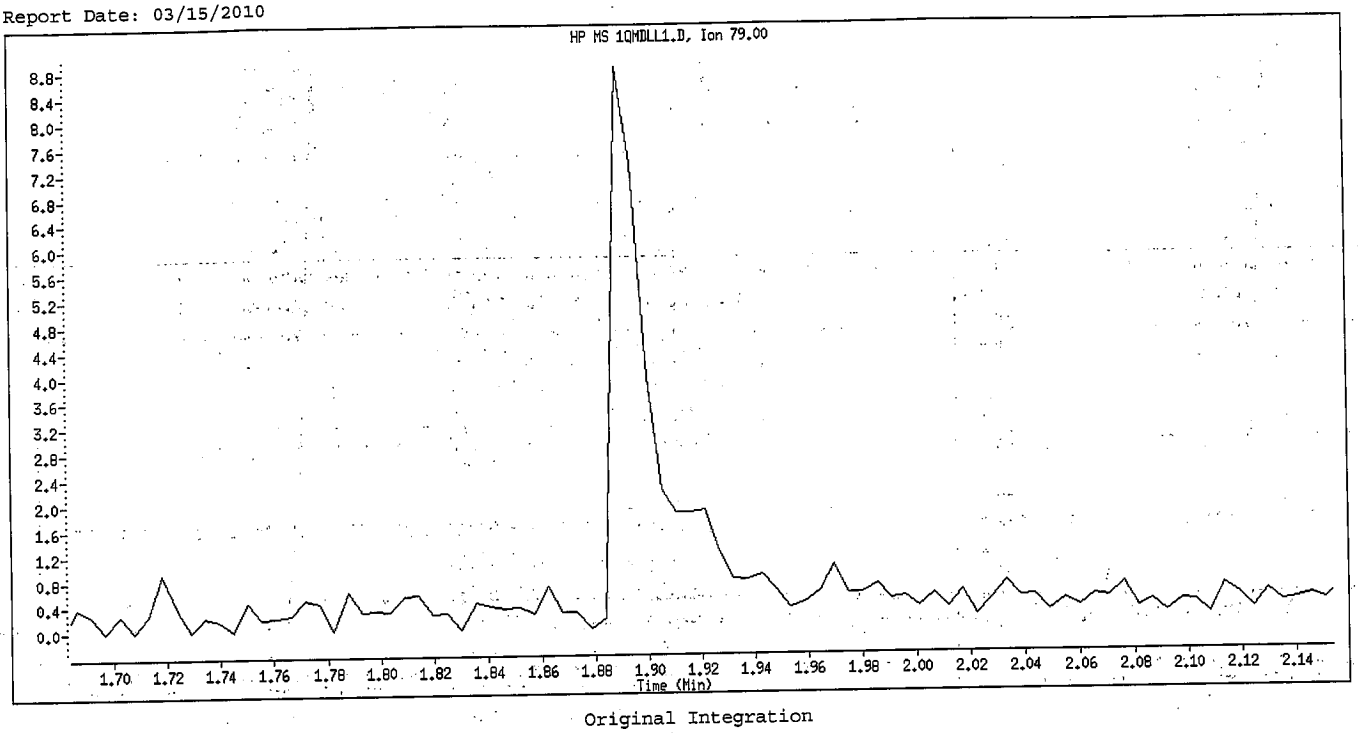
Original Integration



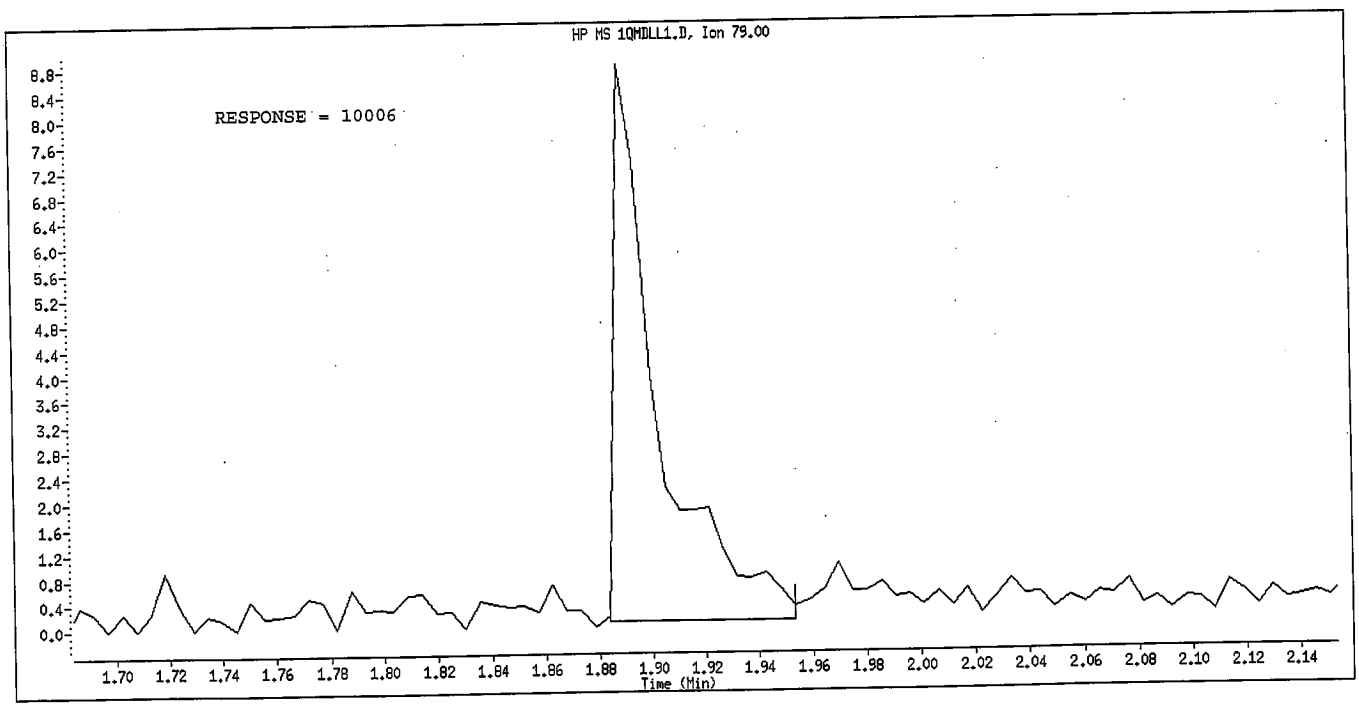
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 1QMDLL1.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID: SSTD001
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 03/15/2010



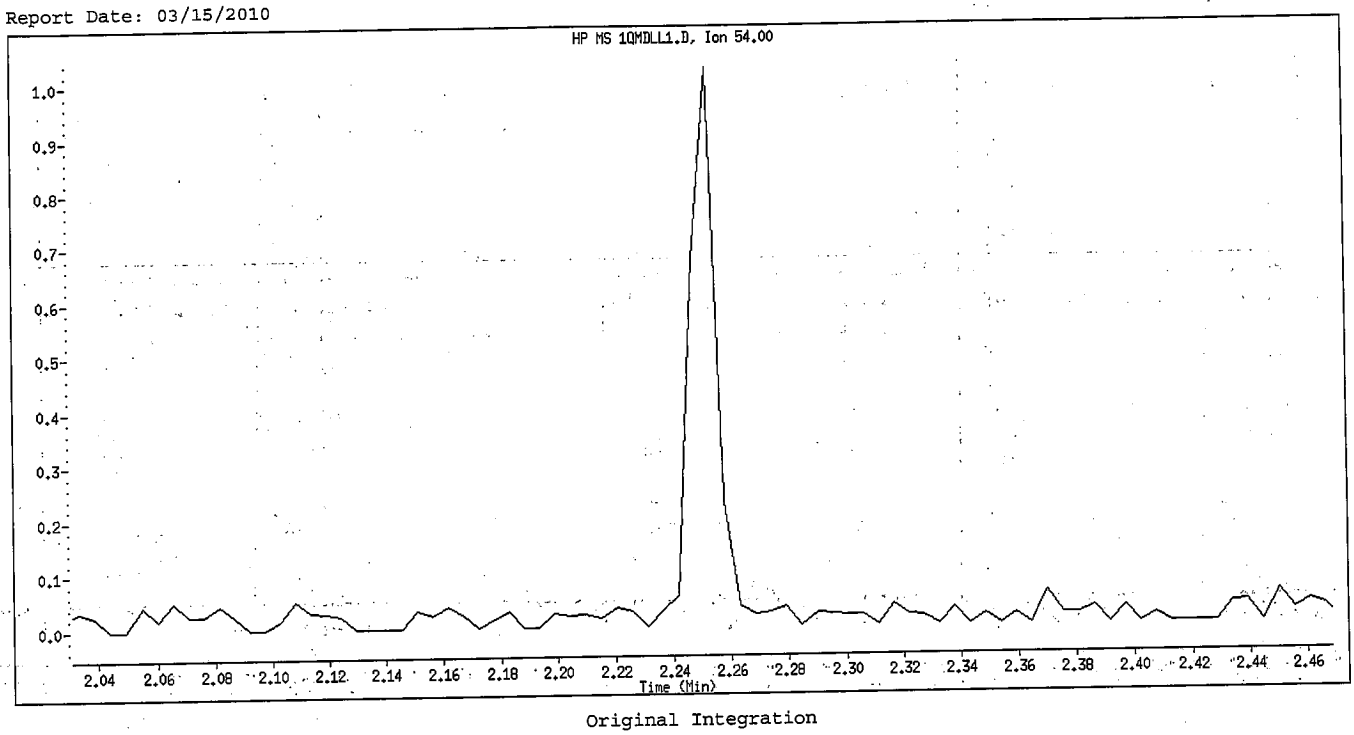
Original Integration



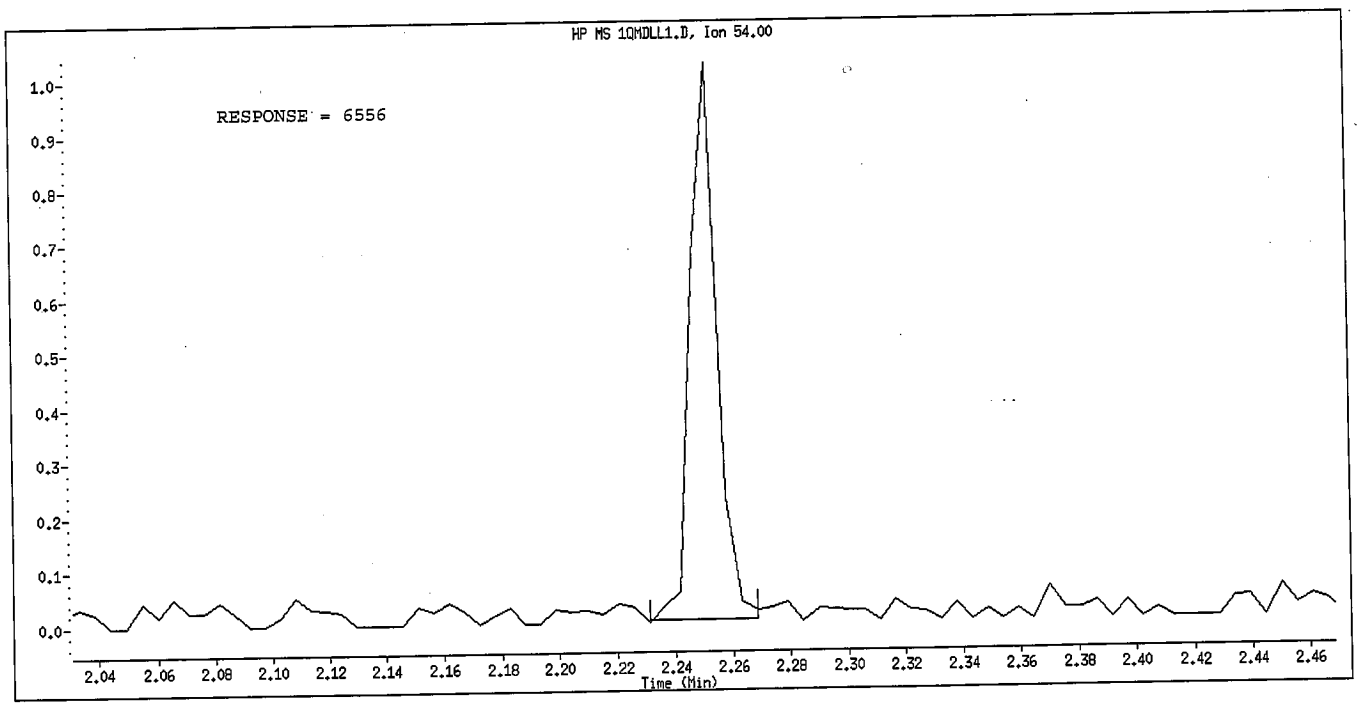
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 1QMDLL1.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID: SSTD001
Compound Name: 3-Chloropropionitrile
CAS #: 542-76-7
Report Date: 03/15/2010



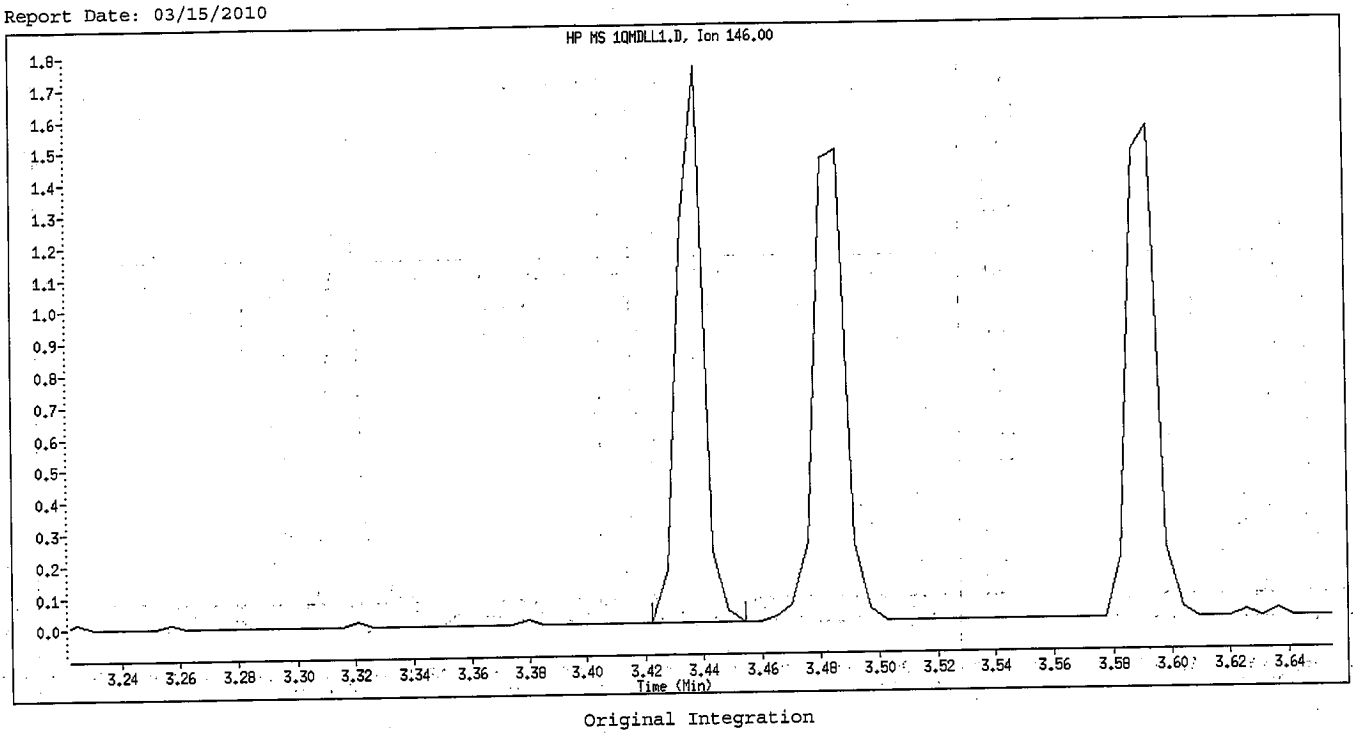
Original Integration



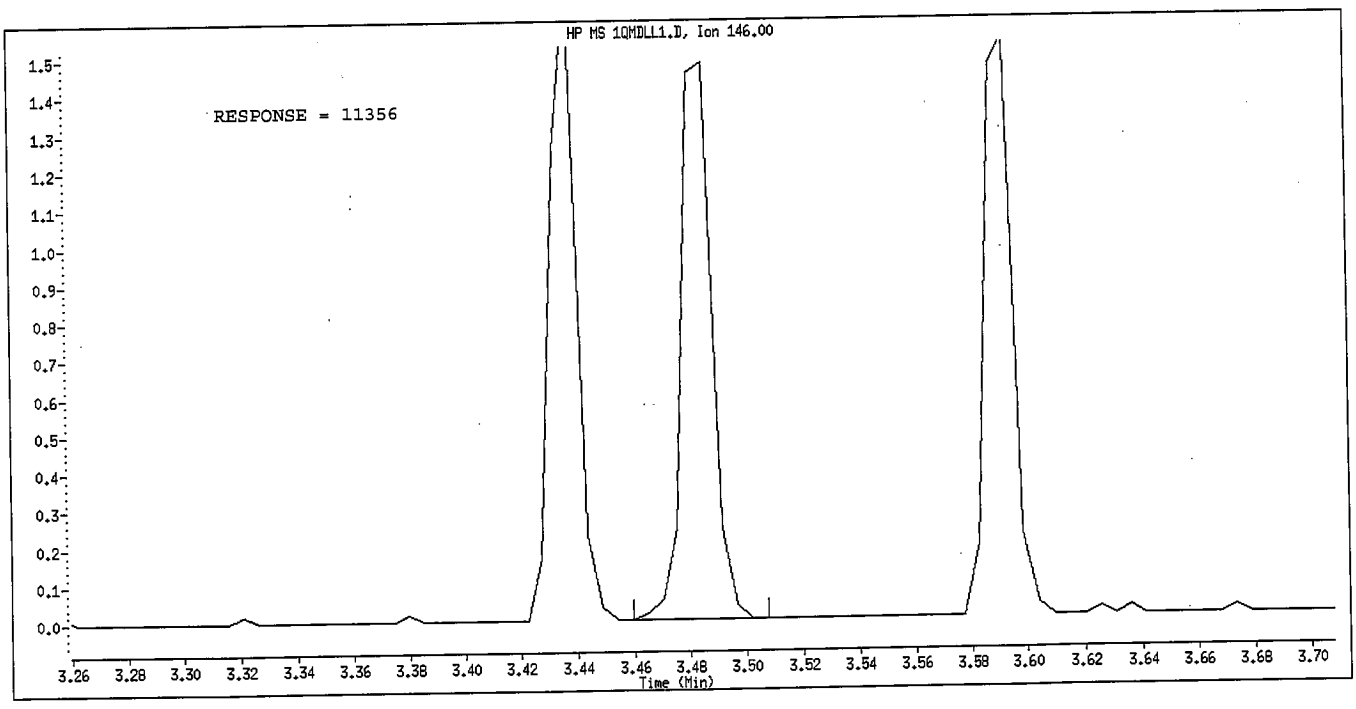
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 1QMDLL1.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID: SSTD001
Compound Name: 1,4-Dichlorobenzene
CAS #: 106-46-7
Report Date: 03/15/2010



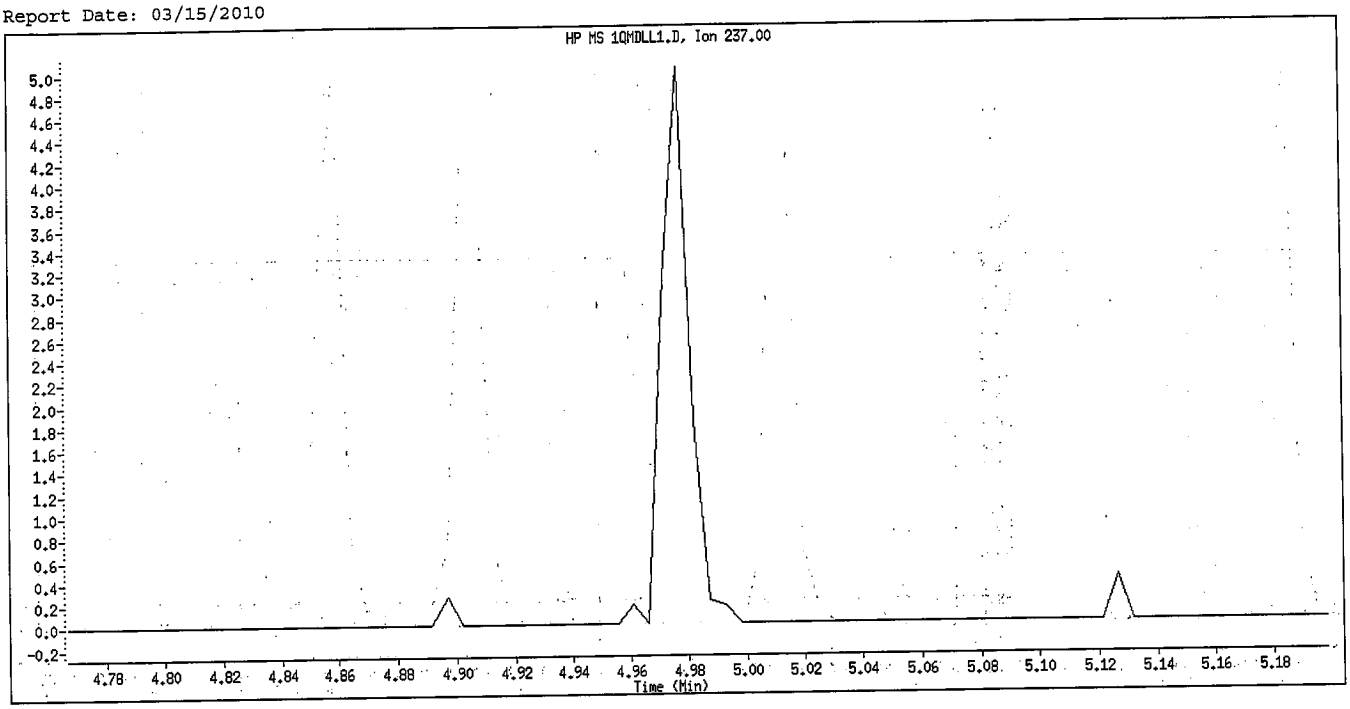
Original Integration



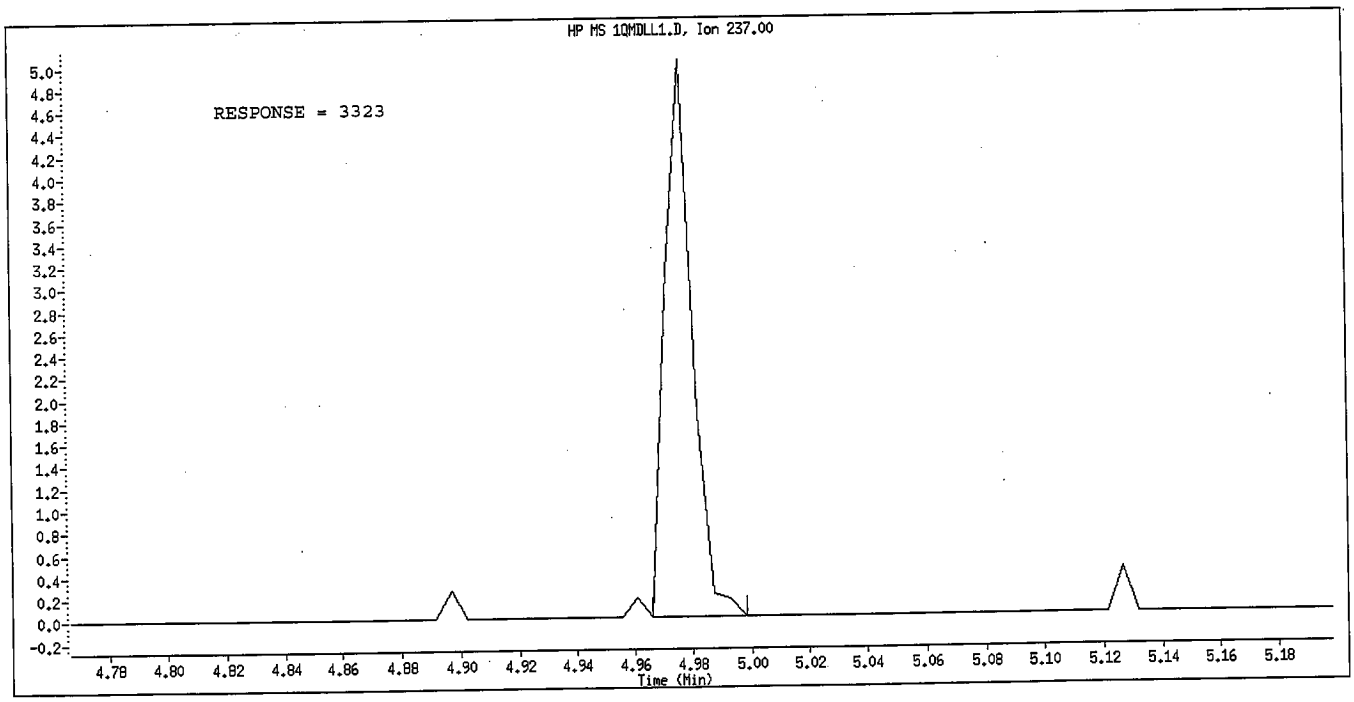
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 1QMDLL1.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID: SSTD001
Compound Name: Hexachlorocyclopentadiene
CAS #: 77-47-4
Report Date: 03/15/2010



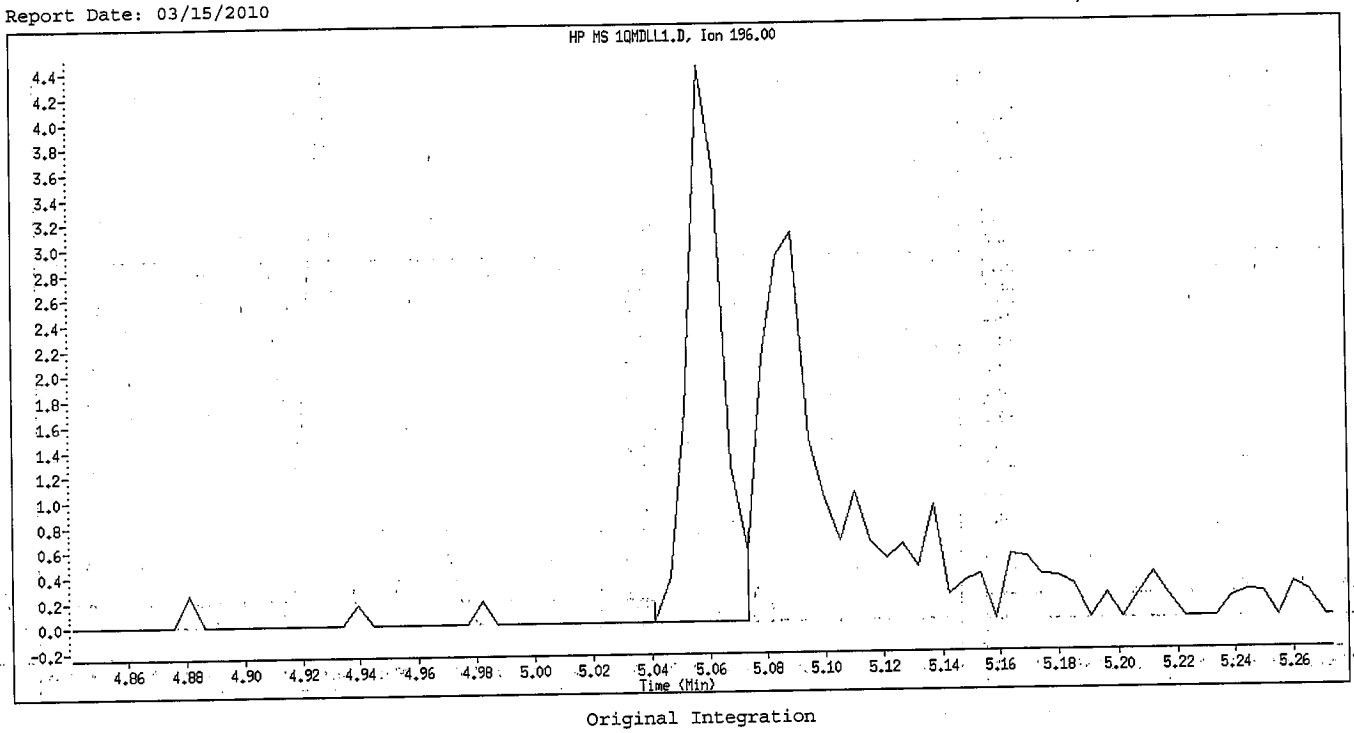
Original Integration



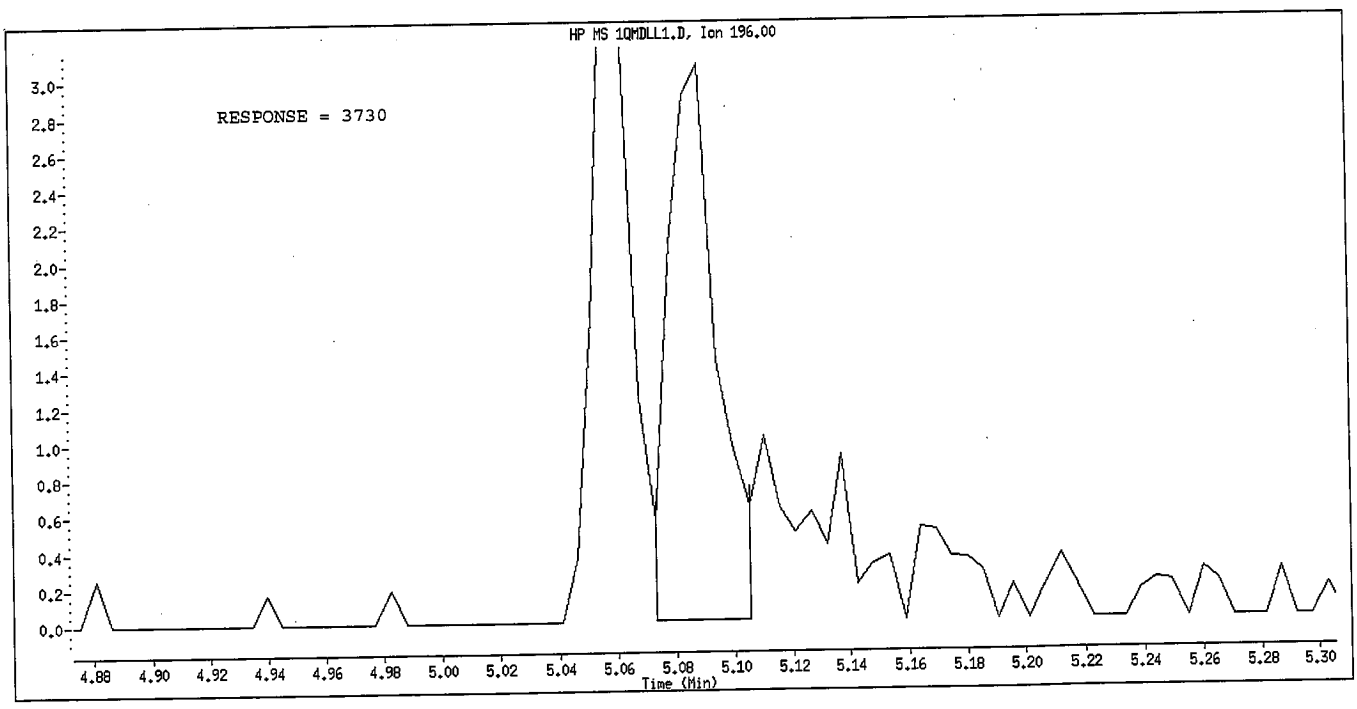
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 1QMDLL1.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID: SSTD001
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 03/15/2010



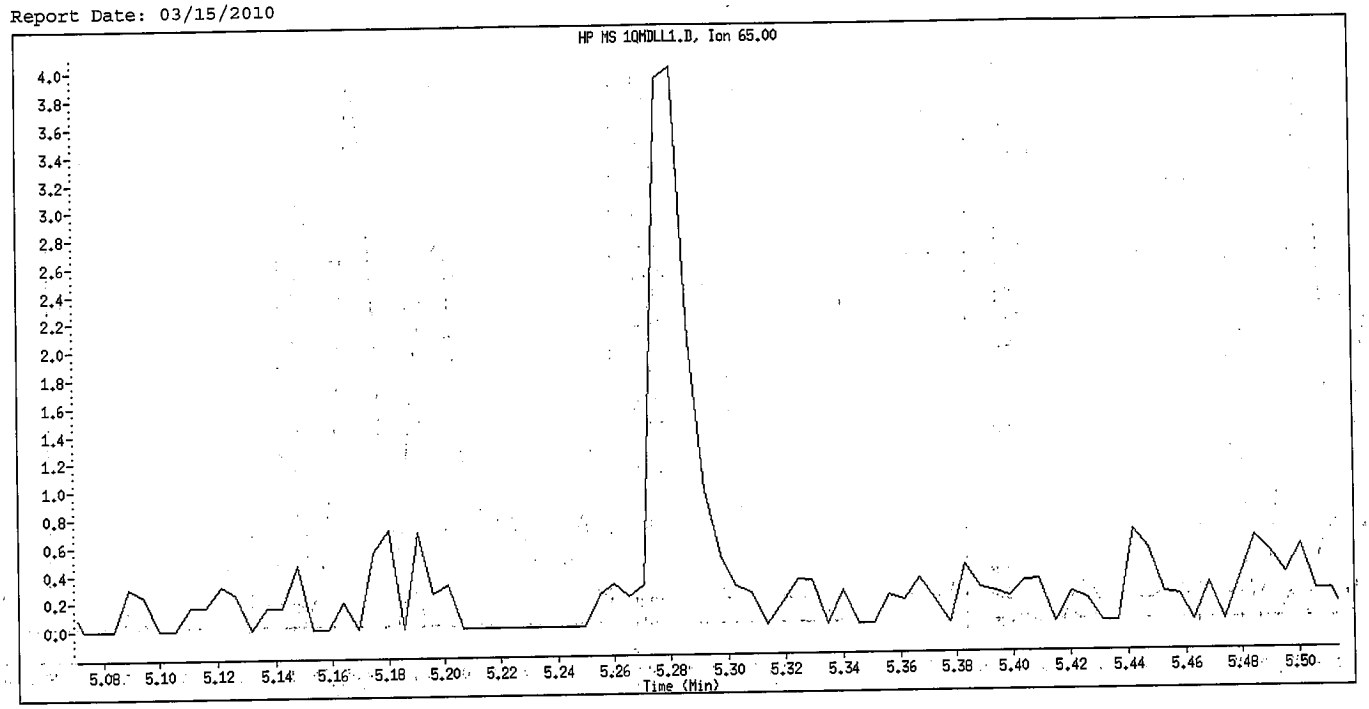
Original Integration



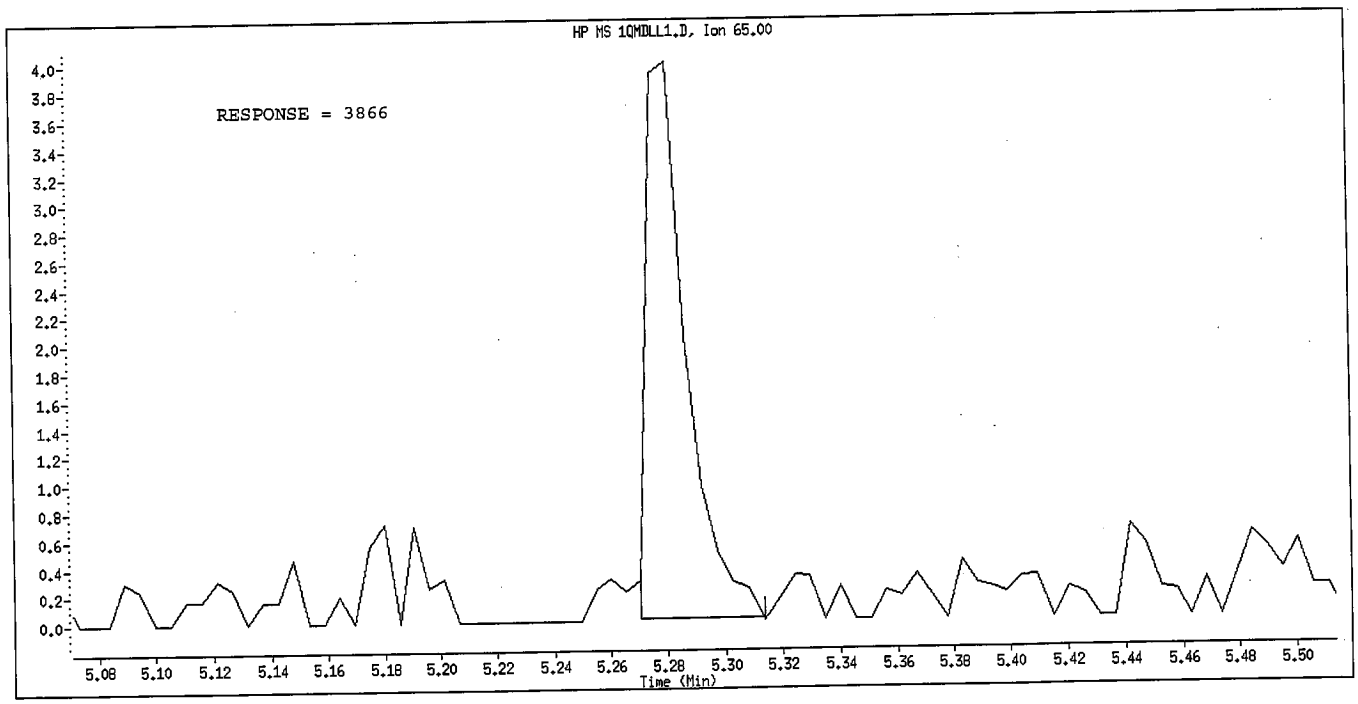
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 1QMDLL1.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID: SSTD001
Compound Name: 2-Nitroaniline
CAS #: 88-74-4
Report Date: 03/15/2010



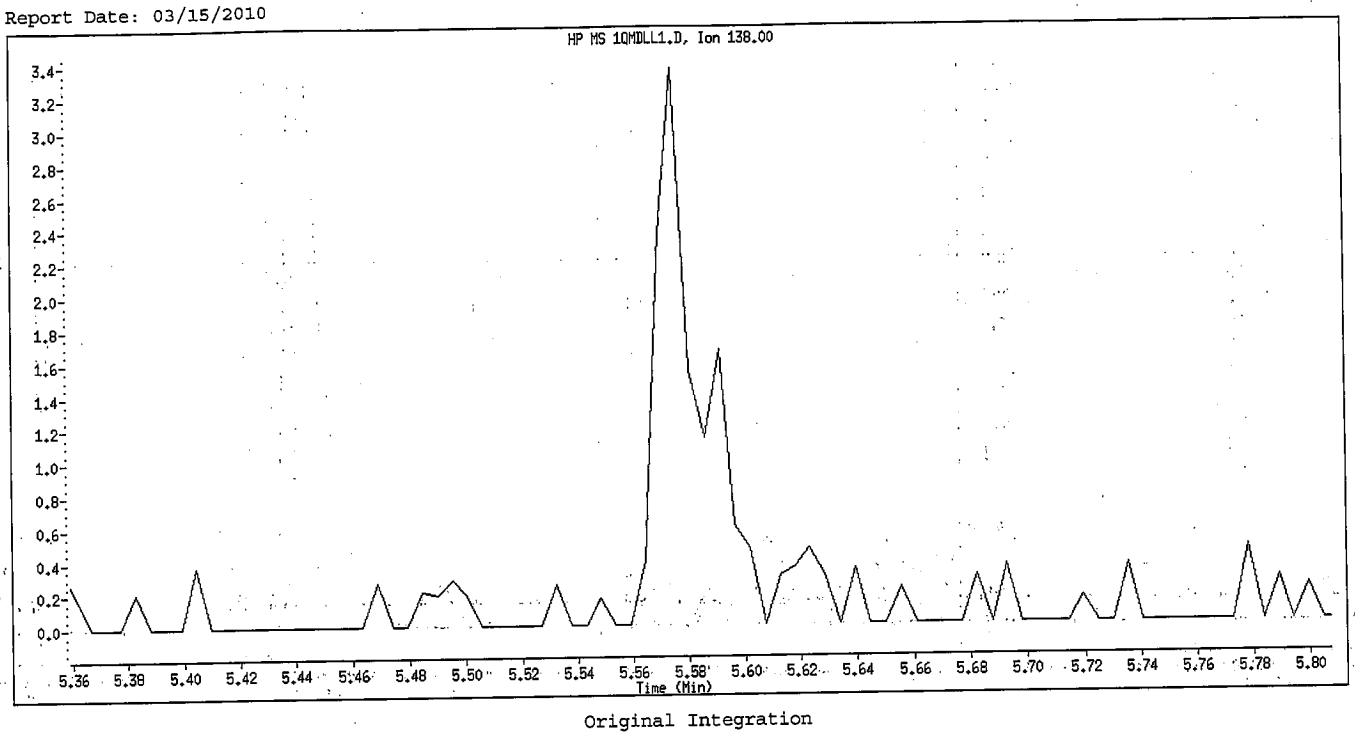
Original Integration



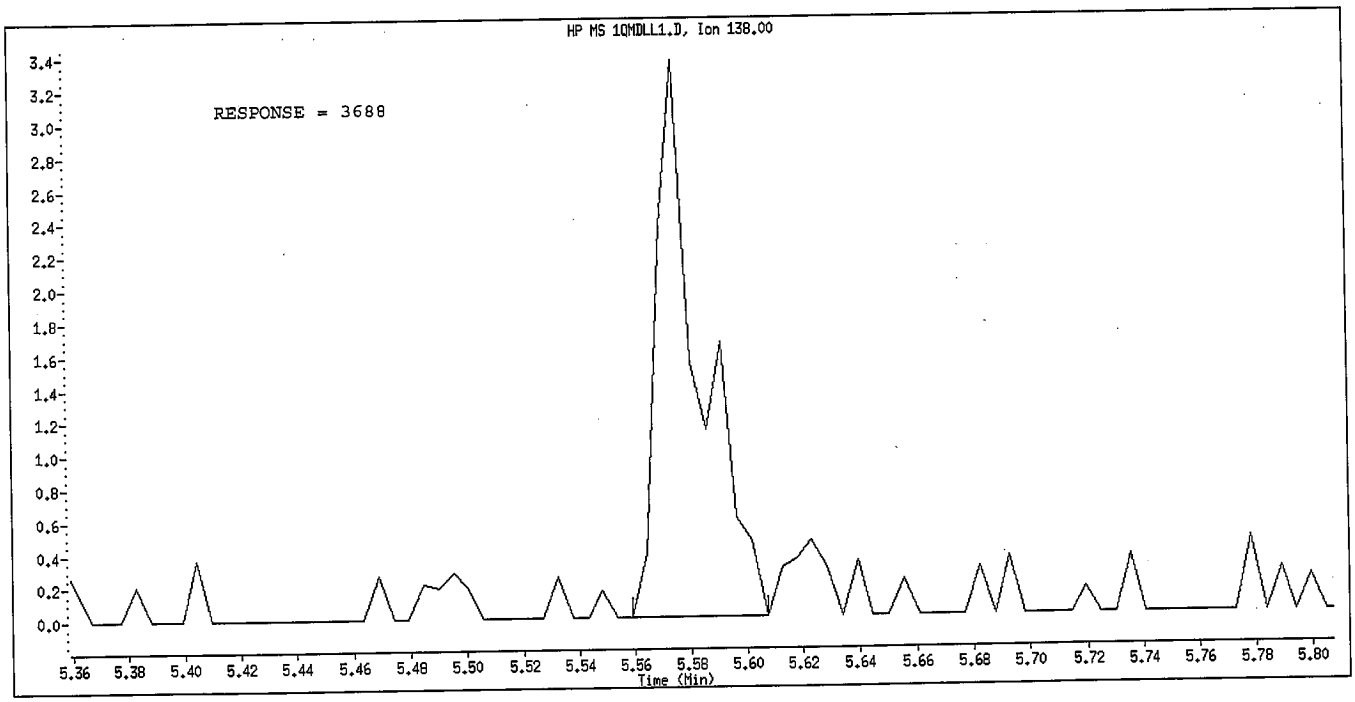
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 1QMDLL1.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID: SSTD001
Compound Name: 3-Nitroaniline
CAS #: 99-09-2
Report Date: 03/15/2010



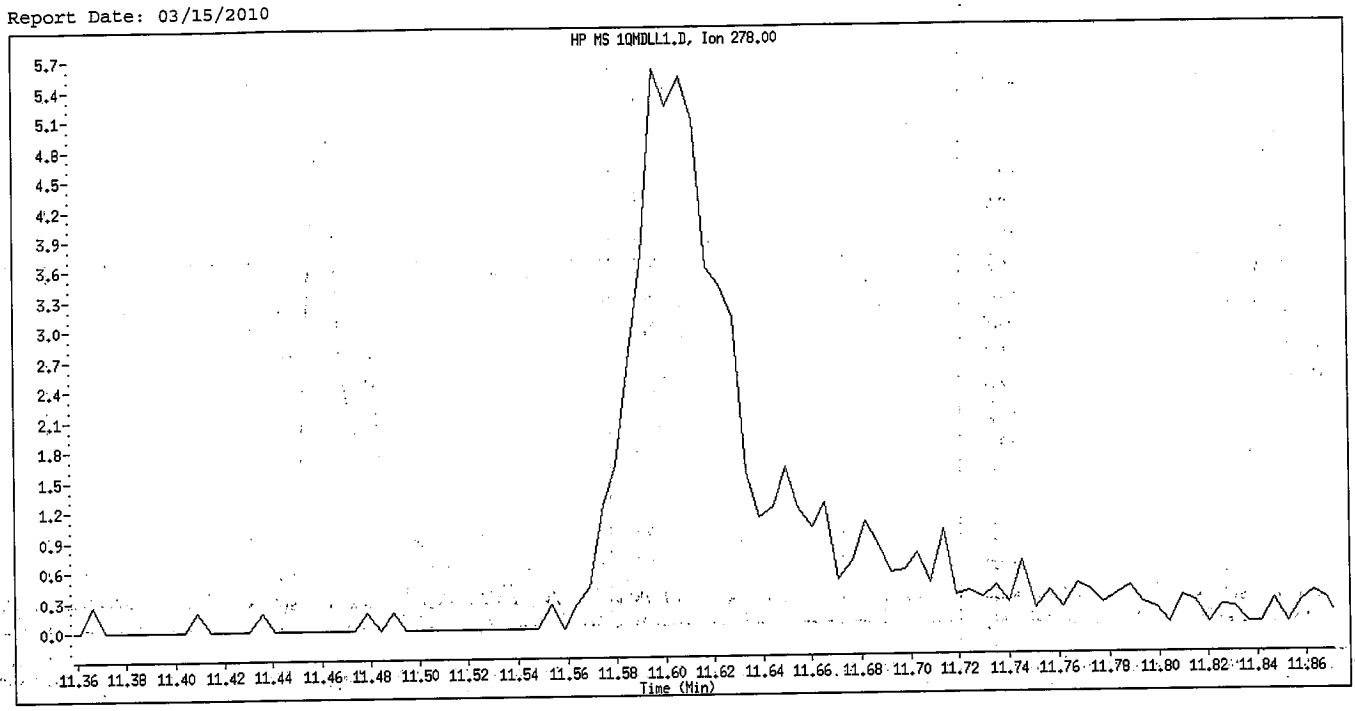
Original Integration



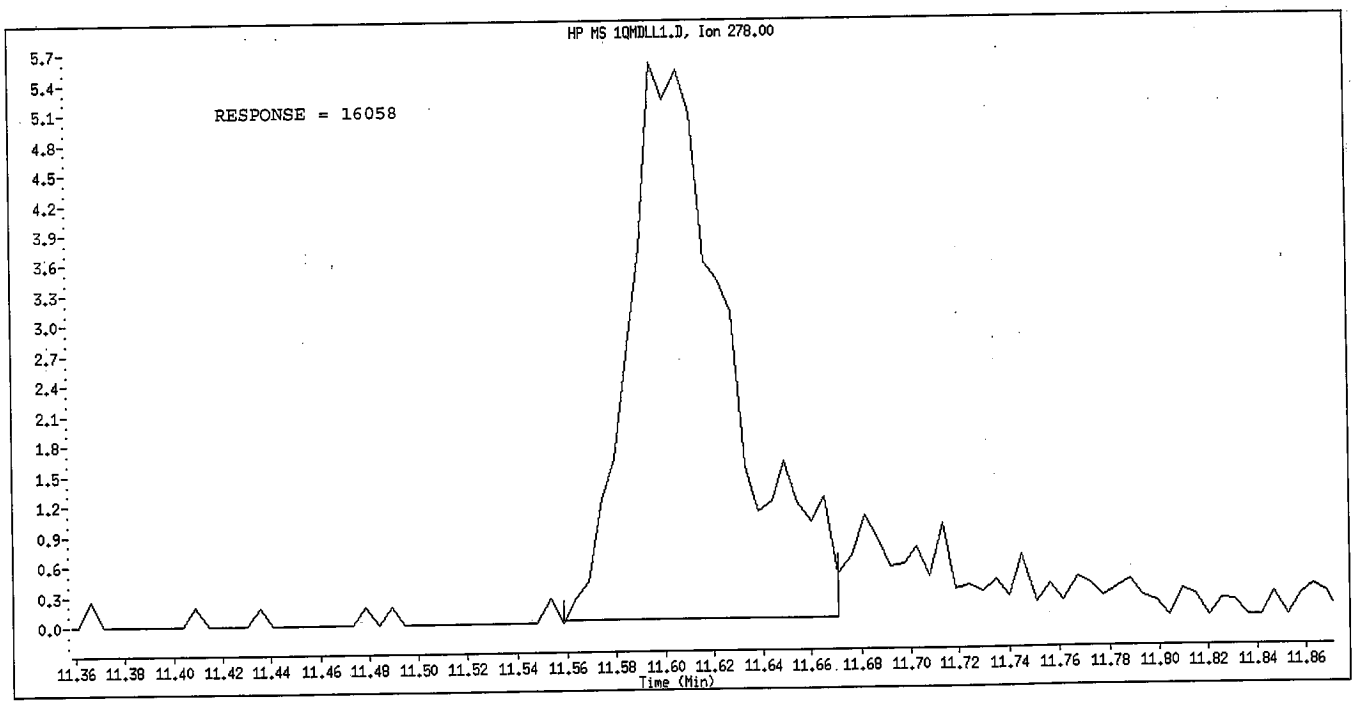
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 1QMDLL1.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID: SSTD001
Compound Name: Dibenz(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/15/2010



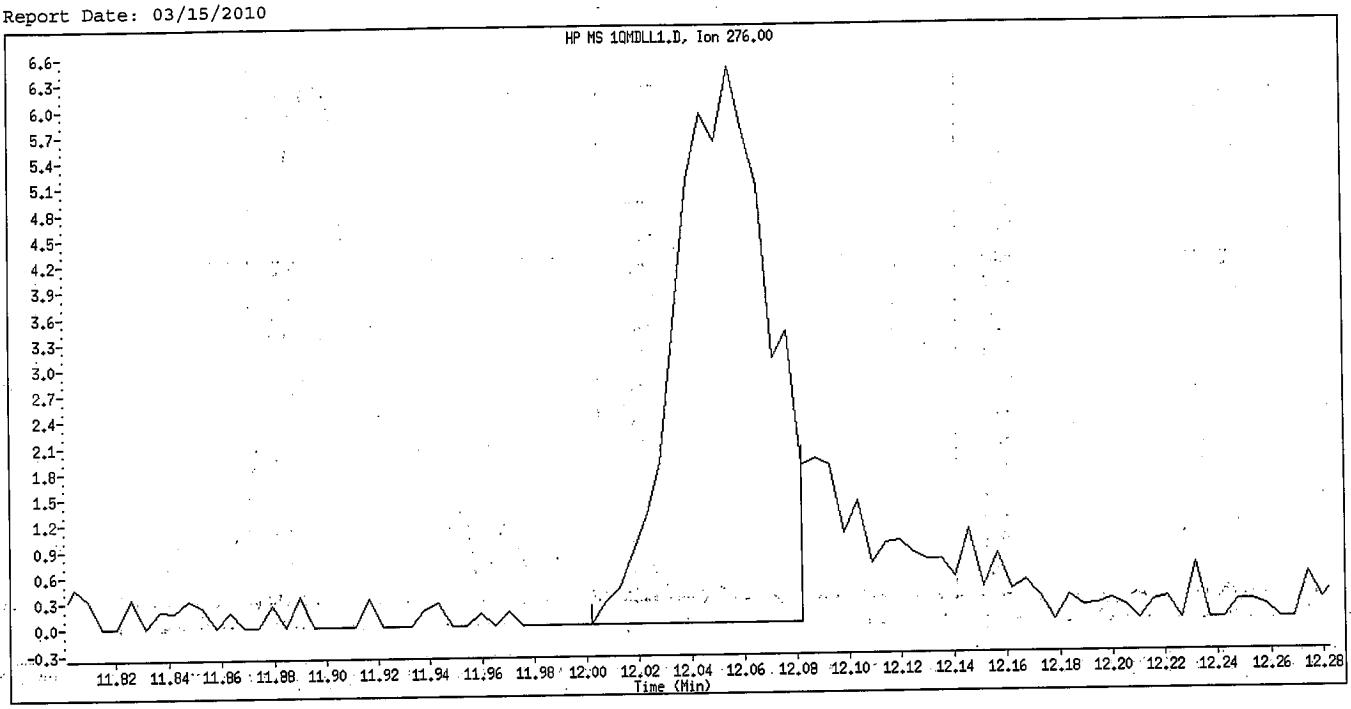
Original Integration



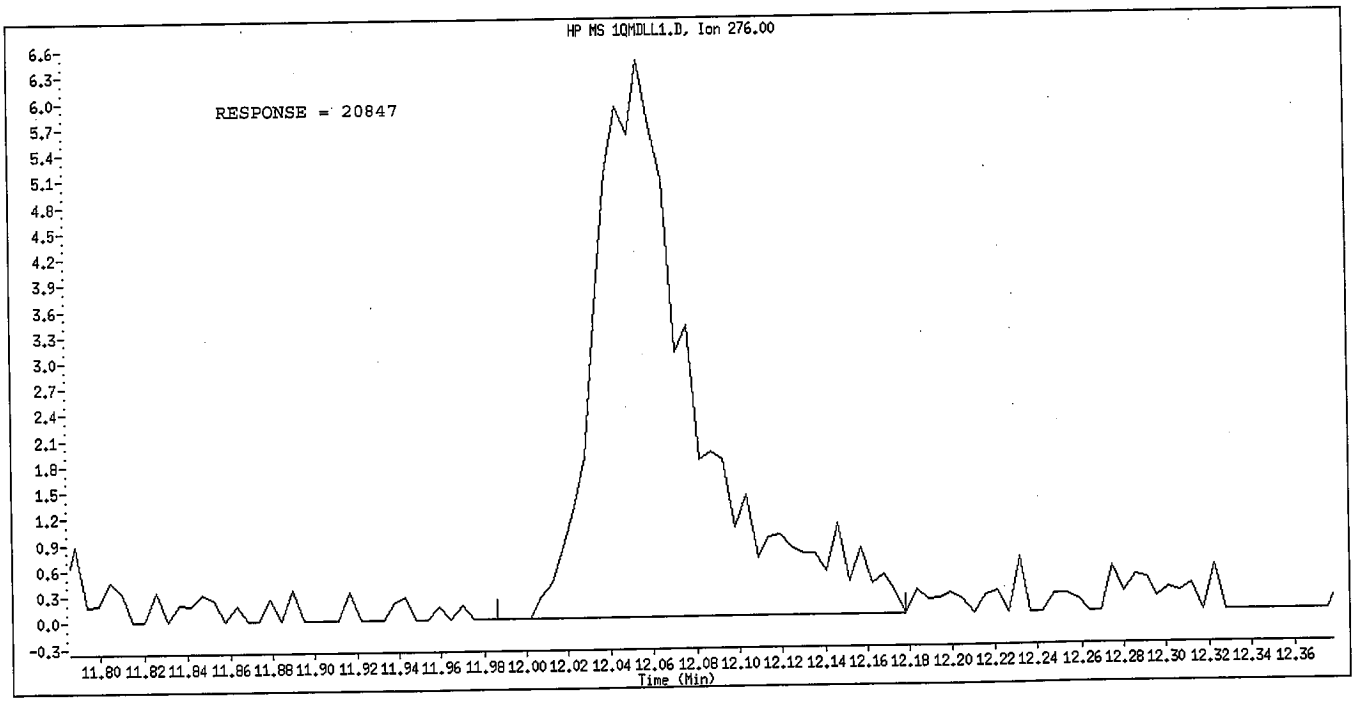
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 1QMDLL1.D
Inj. Date and Time: 08-MAR-2010 16:30
Instrument ID: a4hp10.i
Client ID: SSTD001
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/15/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00308t.b\1QMDLL2.D
Lab Smp Id: L2 Client Smp ID: SSTD002
Inj Date : 08-MAR-2010 16:10
Operator : 001710 Inst ID: a4hp10.i
Smp Info : L2,00308a.b,8270C-625,1-827042d.sub,1,,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp10.i\00308t.b\8270C-625.m
Meth Date : 09-Mar-2010 15:14 a4hp10.i Quant Type: ISTD
Cal Date : 08-MAR-2010 17:49 Cal File: 1SMH0308.D
Als bottle: 5 QC Sample: mrl
Dil Factor: 1.00000 Compound Sublist: qcmrl.sub
Integrator: HP RTE
Target Version: 4.14
Processing Host: CANPMSSV01

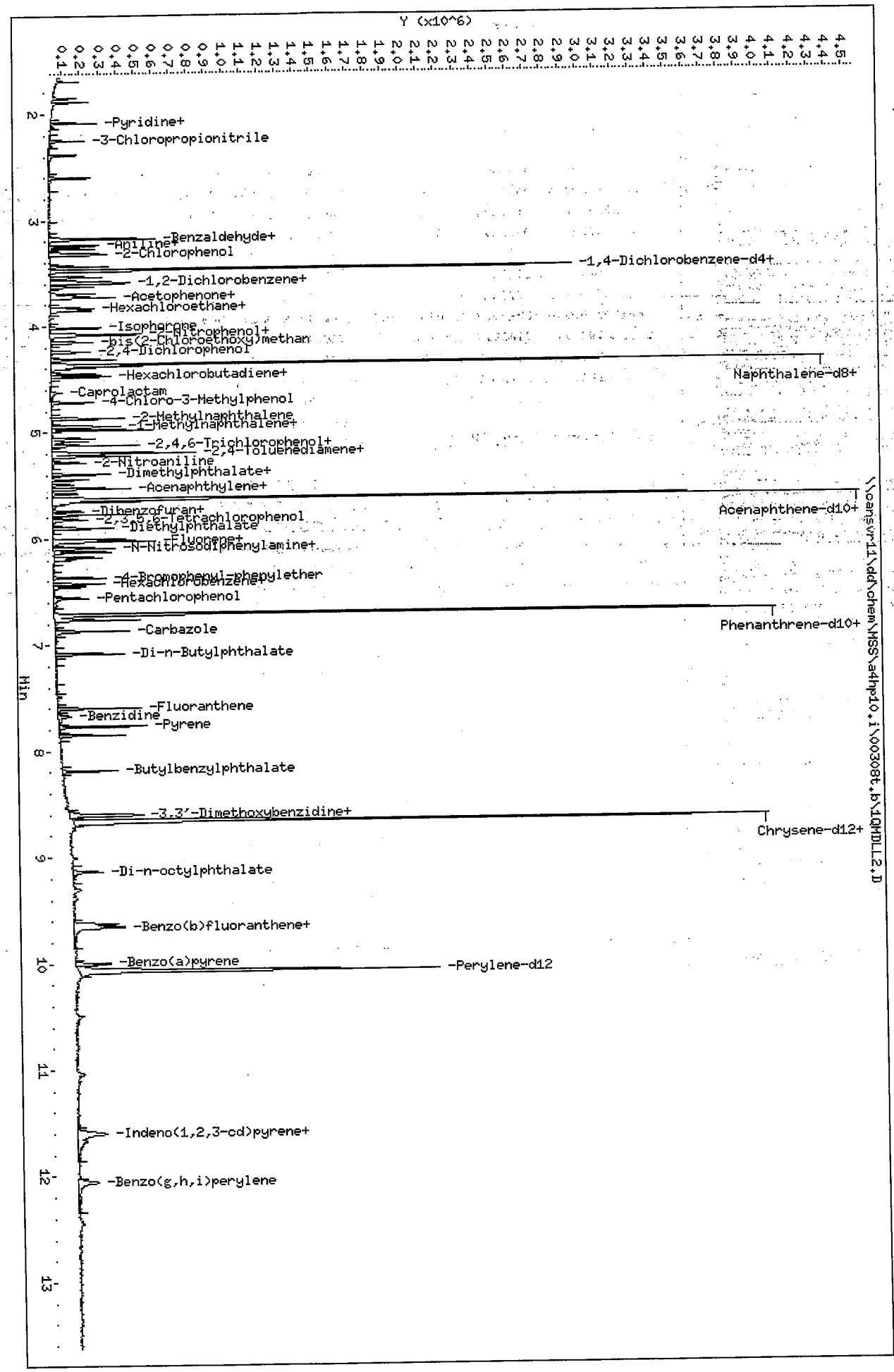
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.475	(1.000)	347336	2.00000		(Q)
* 2 Naphthalene-d8	136	4.362	4.362	(1.000)	1295559	2.00000		
* 3 Acenaphthene-d10	164	5.628	5.628	(1.000)	679998	2.00000		
* 4 Phenanthrene-d10	188	6.713	6.713	(1.000)	1081040	2.00000		
* 5 Chrysene-d12	240	8.657	8.673	(1.000)	1186223	2.00000		
* 6 Perylene-d12	264	10.067	10.078	(1.000)	947818	2.00000		
9 Pyridine	79	1.883	1.883	(0.543)	55566	0.22806	0.22806	
10 N-Nitrosodimethylamine	74	1.846	1.846	(0.532)	33881	0.24887	0.24887	
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	2.252	2.257	(0.649)	34474	0.25352	0.25352	
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	3.181	3.187	(0.917)	38848	0.28295	0.28295	
21 Aniline	93	3.240	3.251	(0.934)	75299	0.22487	0.22487	
22 Phenol	94	3.181	3.187	(0.917)	66115	0.24037	0.24037	
23 bis(2-Chloroethyl)ether	93	3.267	3.272	(0.942)	52506	0.23974	0.23974	
24 2-Chlorophenol	128	3.326	3.331	(0.958)	51447	0.24057	0.24057	
26 1,3-Dichlorobenzene	146	3.438	3.438	(0.991)	56428	0.24916	0.24916	
27 1,4-Dichlorobenzene	146	3.486	3.486	(1.005)	56169	0.25031	0.25030	
28 1,2-Dichlorobenzene	146	3.593	3.593	(1.035)	54875	0.25731	0.25731	
29 Benzyl Alcohol	108	3.539	3.545	(1.020)	31580	0.22663	0.22663	
30 2-Methylphenol	108	3.598	3.604	(1.037)	46192	0.23336	0.23336	
31 bis(2-Chloroisopropyl)ether	45	3.630	3.630	(1.046)	76190	0.25430	0.25430	
37 Acetophenone	105	3.732	3.737	(1.075)	69820	0.24675	0.24675	
32 N-Nitroso-di-n-propylamine	70	3.721	3.726	(1.072)	35469	0.23733	0.23733	
192 4-Methylphenol	108	3.700	3.705	(1.066)	48612	0.23391	0.23391	
34 Hexachloroethane	117	3.828	3.828	(1.103)	20146	0.25295	0.25295	
35 Nitrobenzene	77	3.860	3.865	(0.885)	53521	0.24411	0.24411	
41 Isophorone	82	4.015	4.026	(0.920)	96186	0.23591	0.23591	
42 2-Nitrophenol	139	4.079	4.084	(0.935)	22342	0.21011	0.21010	
43 2,4-Dimethylphenol	107	4.079	4.084	(0.935)	46555	0.23874	0.23874	(QM)
44 bis(2-Chloroethoxy)methane	93	4.148	4.154	(0.951)	56928	0.24438	0.24438	
46 2,4-Toluenediamene	121	5.179	5.185	(1.187)	13877	0.26177	0.26177	
47 1,3,5-Trichlorobenzene	180	4.090	4.095	(0.938)	45675	0.25620	0.25620	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48	2,4-Dichlorophenol	162	4.244	4.245	(0.973)	32266	0.21184	0.21184
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.314	4.314	(0.989)	43733	0.24775	0.24774
51	Naphthalene	128	4.378	4.378	(1.004)	149403	0.25359	0.25359
52	4-Chloroaniline	127	4.394	4.400	(1.007)	57470	0.23090	0.23090
56	Hexachlorobutadiene	225	4.453	4.453	(1.021)	22631	0.25343	0.25343
210	Caprolactam	113	4.624	4.656	(1.060)	6489	0.10660	0.10660(QH)
57	1,2,3-Trichlorobenzene	180	4.474	4.480	(1.026)	41885	0.25394	0.25394
59	4-Chloro-3-Methylphenol	107	4.715	4.725	(1.081)	33677	0.21351	0.21351
62	2-Methylnaphthalene	142	4.869	4.870	(1.116)	82580	0.25402	0.25402
63	1-Methylnaphthalene	142	4.944	4.944	(1.133)	91617	0.24833	0.24833
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	18950	0.20675	0.20675
66	2,4,6-Trichlorophenol	196	5.056	5.062	(0.898)	23442	0.22271	0.22271
67	2,4,5-Trichlorophenol	196	5.083	5.089	(0.903)	24467	0.21928	0.21928
211	1,1'-Biphenyl	154	5.195	5.201	(0.923)	116500	0.26085	0.26085
68	1,2,3,5-Tetrachlorobenzene	216	4.976	4.976	(0.884)	41020	0.25553	0.25553
70	2-Chloronaphthalene	162	5.222	5.228	(0.928)	86489	0.25021	0.25021
73	2-Nitroaniline	65	5.281	5.286	(0.938)	22153	0.21975	0.21975
74	1,2,3,4-Tetrachlorobenzene	216	5.195	5.195	(0.923)	36778	0.25109	0.25109
76	Dimethylphthalate	163	5.393	5.399	(0.958)	91139	0.24084	0.24084
78	2,6-Dinitrotoluene	165	5.446	5.452	(0.968)	17129	0.19909	0.19909
79	Acenaphthylene	152	5.527	5.532	(0.982)	131324	0.23935	0.23935
80	1,2-Dinitrobenzene	168	5.489	5.500	(0.975)	8484	0.19307	0.19307
81	3-Nitroaniline	138	5.575	5.580	(0.991)	19985	0.20642	0.20642
82	Acenaphthene	153	5.649	5.655	(1.004)	89716	0.26112	0.26112
83	2,4-Dinitrophenol	184	5.649	5.655	(1.004)	10788	0.72967	0.72966(Q)
85	4-Nitrophenol	109	5.665	5.671	(1.007)	8651	0.18796	0.18796(QM)
86	Dibenzofuran	168	5.772	5.778	(1.026)	123884	0.25528	0.25528
87	2,4-Dinitrotoluene	165	5.740	5.746	(1.020)	22409	0.19756	0.19756
91	2,3,5,6-Tetrachlorophenol	232	5.820	5.826	(1.034)	17591	0.19952	0.19952
93	Diethylphthalate	149	5.901	5.906	(1.048)	85869	0.23623	0.23623
94	Fluorene	166	6.023	6.029	(1.070)	97138	0.24639	0.24639
95	4-Chlorophenyl-phenylether	204	6.007	6.008	(1.067)	46000	0.25338	0.25338
96	4-Nitroaniline	138	6.018	6.024	(1.069)	19675	0.19579	0.19579
98	4,6-Dinitro-2-methylphenol	198	6.034	6.040	(0.899)	8536	0.33685	0.33685
99	N-Nitrosodiphenylamine	169	6.088	6.093	(0.907)	65957	0.24161	0.24161
100	1,2-Diphenylhydrazine	77	6.125	6.125	(0.912)	94514	0.23024	0.23024
106	4-Bromophenyl-phenylether	248	6.365	6.365	(0.948)	23856	0.24378	0.24378
107	Hexachlorobenzene	284	6.424	6.430	(0.957)	23850	0.24877	0.24877
212	Atrazine	200	6.456	6.456	(0.962)	14199	0.21859	0.21859
111	Pentachlorophenol	266	6.558	6.563	(0.977)	21113	0.61814	0.61814
115	Phenanthrene	178	6.729	6.729	(1.002)	138904	0.24544	0.24544
116	Anthracene	178	6.766	6.766	(1.008)	132859	0.23682	0.23682
119	Carbazole	167	6.867	6.873	(1.023)	127094	0.23628	0.23628
120	Di-n-Butylphthalate	149	7.081	7.081	(1.055)	131082	0.22697	0.22697
123	Fluoranthene	202	7.594	7.600	(1.131)	134215	0.23857	0.23857
124	Benzidine	184	7.669	7.669	(0.886)	34097	0.33444	0.33444
125	Pyrene	202	7.765	7.770	(0.897)	141969	0.23919	0.23919
131	Butylbenzylphthalate	149	8.187	8.192	(0.946)	48175	0.19843	0.19843
133	3,3'-Dimethoxybenzidine	244	8.572	8.582	(0.990)	8850	0.44539	0.44539
135	3,3'-Dichlorobenzidine	252	8.609	8.620	(0.994)	35545	0.18226	0.18226
136	Benzo(a)Anthracene	228	8.652	8.663	(0.999)	138786	0.24085	0.24085
137	Chrysene	228	8.679	8.695	(1.002)	137080	0.24769	0.24769
138	4,4'-Methylene bis(o-chloroan	231	8.604	8.615	(0.994)	16210	0.21687	0.21687

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.598	8.604	(0.993)	71656	0.20866	0.20866
140 Di-n-octylphthalate	149	9.133	9.143	(0.907)	90049	0.28112	0.28112
141 Benzo(b)fluoranthene	252	9.624	9.640	(0.956)	106776	0.21861	0.21861
142 Benzo(k)fluoranthene	252	9.656	9.672	(0.959)	131385	0.23314	0.23314
146 Benzo(a)pyrene	252	9.998	10.020	(0.993)	100911	0.21724	0.21724
149 Indeno(1,2,3-cd)pyrene	276	11.590	11.622	(1.151)	100510	0.20721	0.20721
150 Dibenz(a,h)anthracene	278	11.606	11.638	(1.153)	85080	0.26993	0.26993
151 Benzo(g,h,i)perylene	276	12.055	12.092	(1.197)	93818	0.22697	0.22697
198 1,4-Dioxane	88	1.691	1.691	(0.487)	24573	0.25424	0.25424
101 Diphenylamine	169	6.088	6.093	(0.907)	65957	0.24161	0.24161

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Instrument: a4hp10,i
Operator: 001710
Column diameter: 0.32

Data File Name: 1QMDLL2.D
Inj. Date and Time: 08-MAR-2010 16:10
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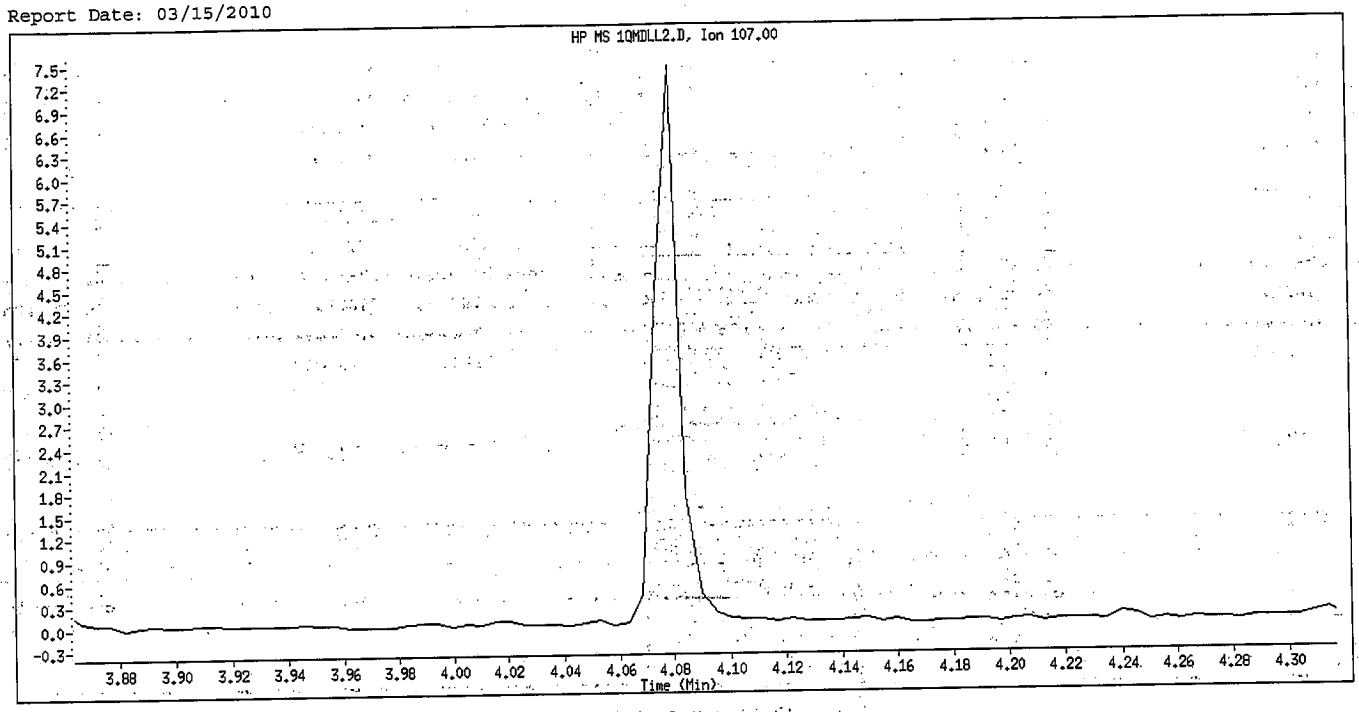
Client ID: SSTD002
Compound Name: 2,4-Dimethylphenol
CAS #: 105-67-9
Report Date: 03/15/2010



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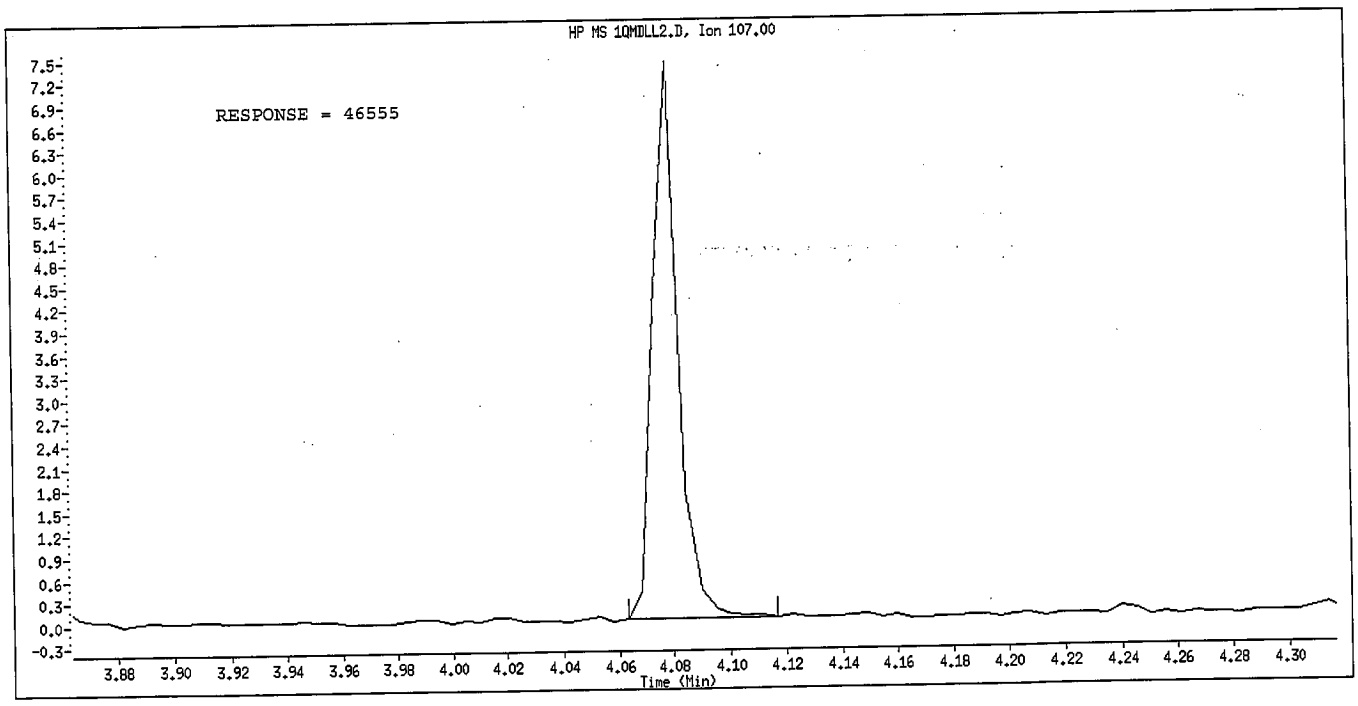

Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 1QMDLL2.D
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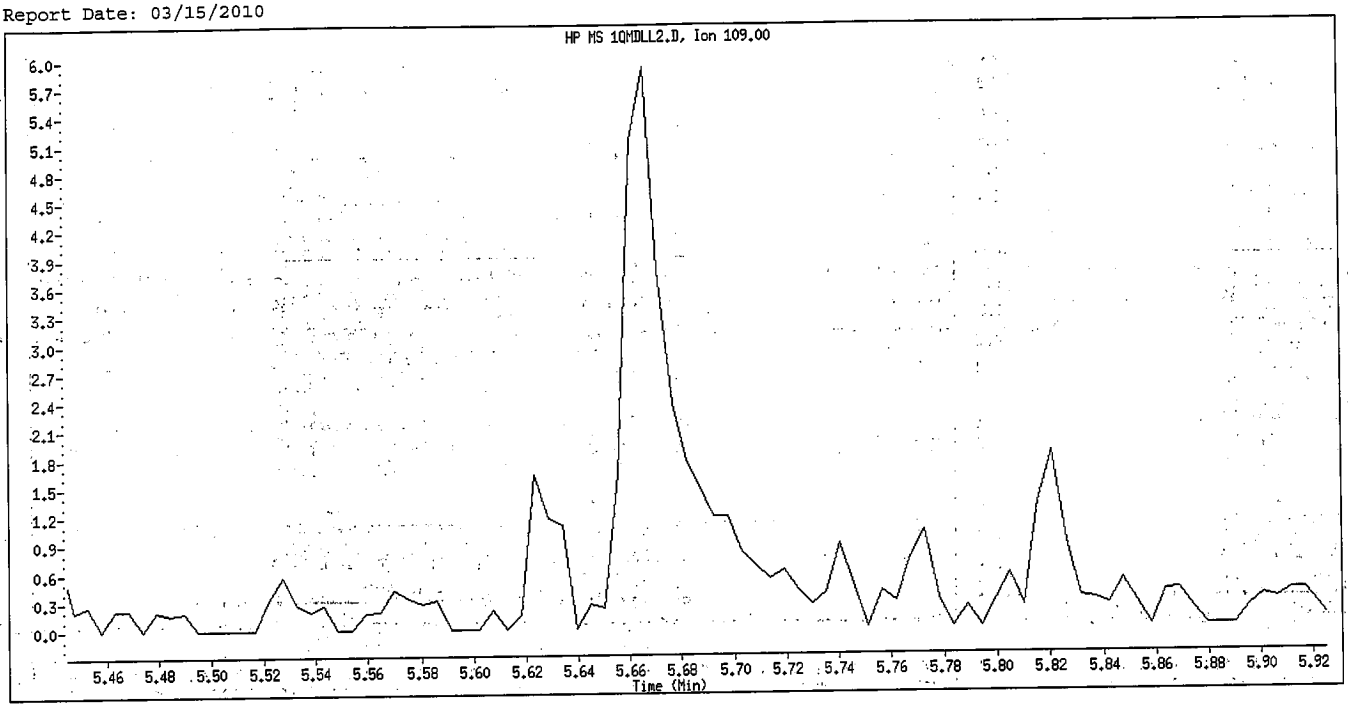
Instrument ID: a4hp10.i
Client ID: SSTD002
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/15/2010



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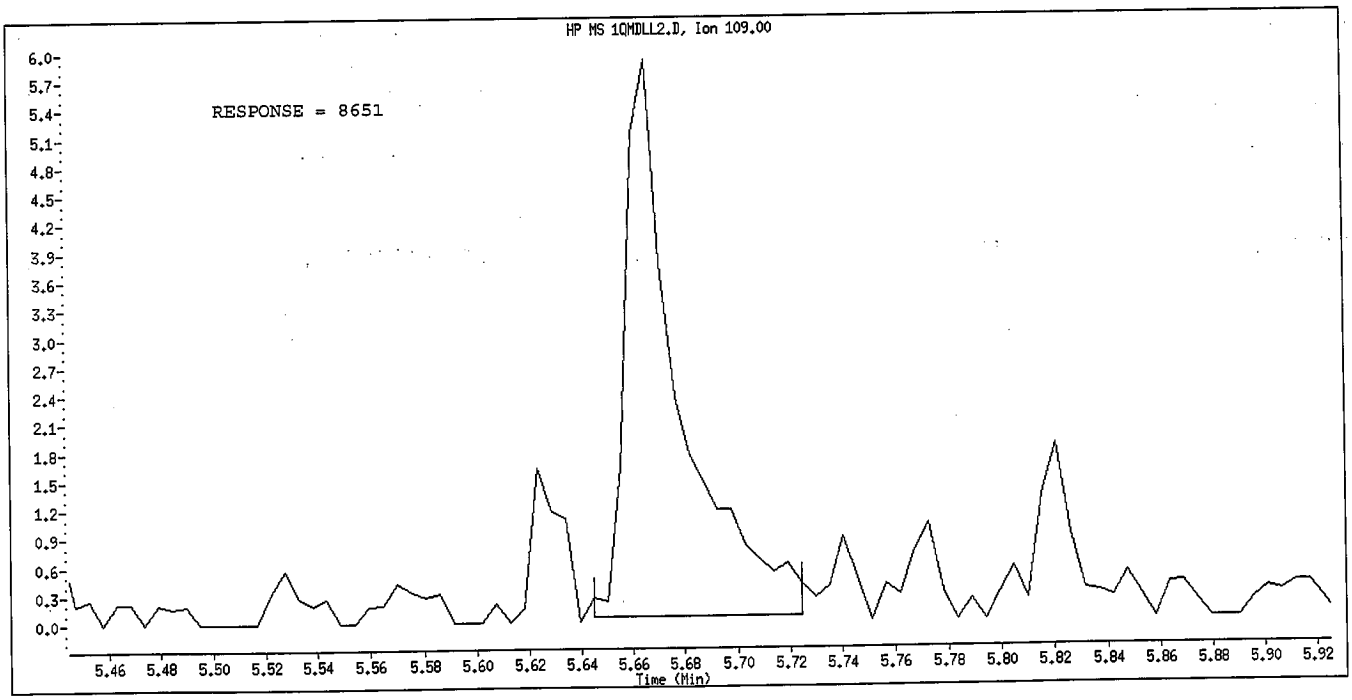

Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

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Lab Smp Id: L3 Client Smp ID: SSTD003
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Cal Date : 08-MAR-2010 17:49 Cal File: 1SMH0308.D
Als bottle: 4 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

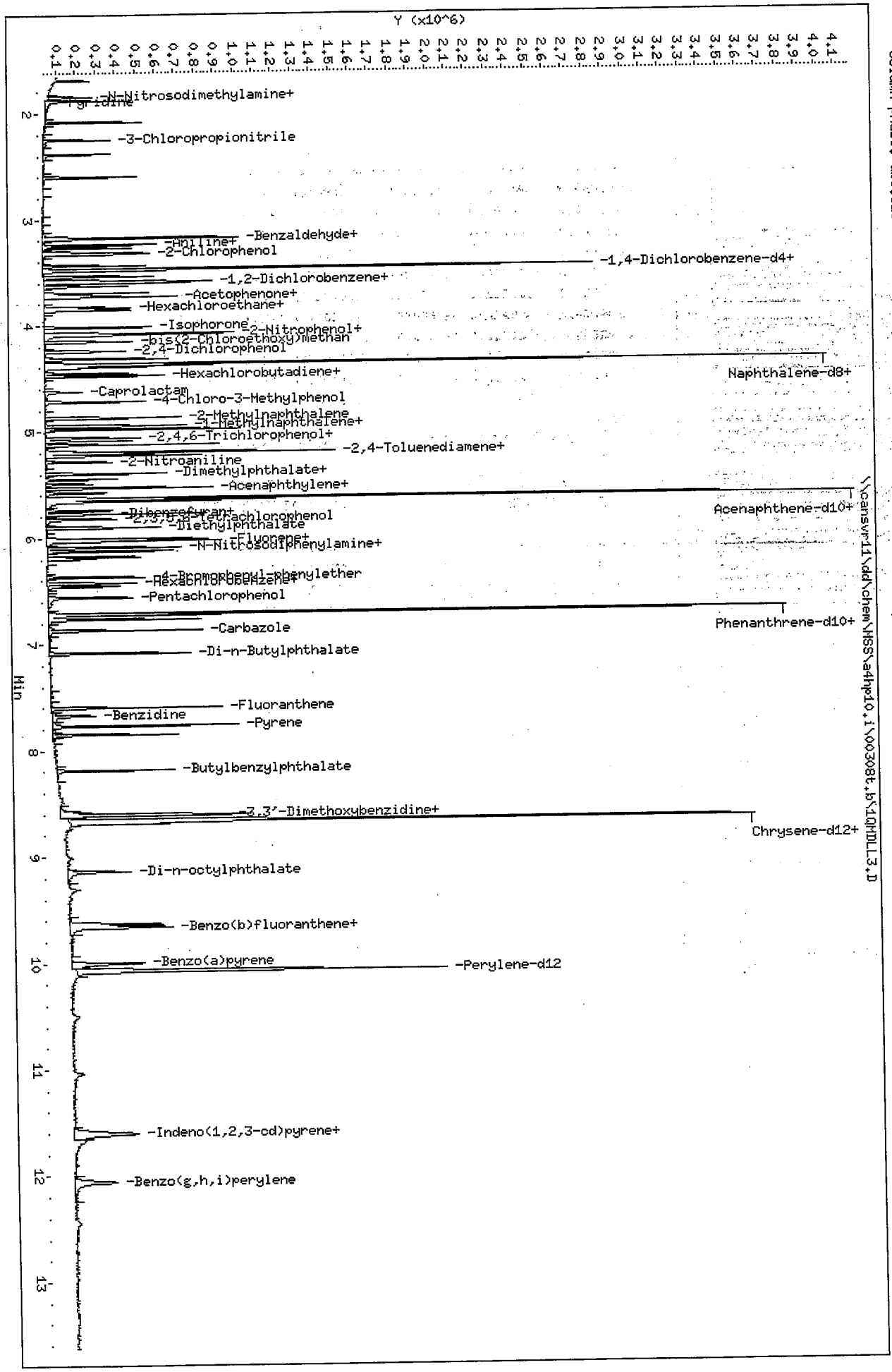
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.475	(1.000)	309218	2.00000		(Q)
* 2 Naphthalene-d8	136	4.362	4.362	(1.000)	1189327	2.00000		
* 3 Acenaphthene-d10	164	5.628	5.628	(1.000)	623928	2.00000		
* 4 Phenanthrene-d10	188	6.707	6.713	(1.000)	980778	2.00000		
* 5 Chrysene-d12	240	8.663	8.673	(1.000)	1076674	2.00000		
* 6 Perylene-d12	264	10.068	10.078	(1.000)	856537	2.00000		
9 Pyridine	79	1.878	1.883	(0.541)	95756	0.44147	0.44146	
10 N-Nitrosodimethylamine	74	1.840	1.846	(0.530)	59616	0.49190	0.49190	
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	2.246	2.257	(0.647)	58914	0.48666	0.48666	
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	3.181	3.187	(0.917)	68072	0.55692	0.55692	
21 Aniline	93	3.240	3.251	(0.934)	139749	0.46880	0.46880	
22 Phenol	94	3.181	3.187	(0.917)	118615	0.48440	0.48440	
23 bis(2-Chloroethyl)ether	93	3.267	3.272	(0.942)	98271	0.50401	0.50401	
24 2-Chlorophenol	128	3.326	3.331	(0.958)	90024	0.47285	0.47285	
26 1,3-Dichlorobenzene	146	3.438	3.438	(0.991)	100363	0.49778	0.49778	
27 1,4-Dichlorobenzene	146	3.486	3.486	(1.005)	101482	0.50798	0.50798	
28 1,2-Dichlorobenzene	146	3.587	3.593	(1.034)	96438	0.50794	0.50794	
29 Benzyl Alcohol	108	3.539	3.545	(1.020)	57532	0.46377	0.46377	
30 2-Methylphenol	108	3.598	3.604	(1.037)	82944	0.47069	0.47069	
31 bis(2-Chloroisopropyl)ether	45	3.630	3.630	(1.046)	136256	0.51085	0.51085	
37 Acetophenone	105	3.732	3.737	(1.075)	125533	0.49833	0.49833	
32 N-Nitroso-di-n-propylamine	70	3.721	3.726	(1.072)	65153	0.48969	0.48969	
192 4-Methylphenol	108	3.694	3.705	(1.065)	88638	0.47909	0.47909	
34 Hexachloroethane	117	3.828	3.828	(1.103)	34897	0.49218	0.49218	
35 Nitrobenzene	77	3.860	3.865	(0.885)	99706	0.49539	0.49538	
41 Isophorone	82	4.015	4.026	(0.920)	174570	0.46640	0.46640	
42 2-Nitrophenol	139	4.079	4.084	(0.935)	46899	0.48043	0.48043	
43 2,4-Dimethylphenol	107	4.079	4.084	(0.935)	84825	0.47386	0.47386	
44 bis(2-Chloroethoxy)methane	93	4.148	4.154	(0.951)	103860	0.48568	0.48568	
46 2,4-Toluenediamene	121	5.179	5.185	(1.187)	33890	0.57735	0.57735	
47 1,3,5-Trichlorobenzene	180	4.090	4.095	(0.938)	79918	0.48832	0.48832	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48	2,4-Dichlorophenol	162	4.244	4.245	(0.973)	65391	0.46767	0.46767
49	Benzoic Acid	122	4.095	4.164	(0.939)	45590	1.04327	1.0433(Q)
50	1,2,4-Trichlorobenzene	180	4.314	4.314	(0.989)	80965	0.49963	0.49963
51	Naphthalene	128	4.378	4.378	(1.004)	269572	0.49842	0.49842
52	4-Chloroaniline	127	4.394	4.400	(1.007)	111537	0.48815	0.48815
56	Hexachlorobutadiene	225	4.453	4.453	(1.021)	39138	0.47742	0.47742
210	Caprolactam	113	4.624	4.656	(1.060)	20655	0.36962	0.36962
57	1,2,3-Trichlorobenzene	180	4.474	4.480	(1.026)	75770	0.50041	0.50041
59	4-Chloro-3-Methylphenol	107	4.715	4.725	(1.081)	64453	0.44513	0.44513
62	2-Methylnaphthalene	142	4.870	4.870	(1.116)	142571	0.47773	0.47773
63	1-Methylnaphthalene	142	4.944	4.944	(1.133)	164373	0.48534	0.48534
64	Hexachlorocyclopentadiene	237	4.976	4.976	(0.884)	36527	0.43434	0.43434
66	2,4,6-Trichlorophenol	196	5.056	5.062	(0.898)	45025	0.46620	0.46620
67	2,4,5-Trichlorophenol	196	5.083	5.089	(0.903)	44195	0.43167	0.43167
211	1,1'-Biphenyl	154	5.195	5.201	(0.923)	208722	0.50935	0.50934
68	1,2,3,5-Tetrachlorobenzene	216	4.976	4.976	(0.884)	72325	0.49104	0.49104
70	2-Chloronaphthalene	162	5.222	5.228	(0.928)	152599	0.48114	0.48114
73	2-Nitroaniline	65	5.281	5.286	(0.938)	44447	0.48053	0.48052
74	1,2,3,4-Tetrachlorobenzene	216	5.195	5.195	(0.923)	67349	0.50113	0.50112
76	Dimethylphthalate	163	5.393	5.399	(0.958)	163033	0.46954	0.46954
78	2,6-Dinitrotoluene	165	5.446	5.452	(0.968)	34941	0.44262	0.44262
79	Acenaphthylene	152	5.527	5.532	(0.982)	250732	0.49805	0.49805
80	1,2-Dinitrobenzene	168	5.489	5.500	(0.975)	17106	0.42426	0.42426
81	3-Nitroaniline	138	5.575	5.580	(0.991)	41393	0.46597	0.46596
82	Acenaphthene	153	5.649	5.655	(1.004)	161412	0.51200	0.51200
83	2,4-Dinitrophenol	184	5.644	5.655	(1.003)	29709	1.04722	1.0472(Q)
85	4-Nitrophenol	109	5.660	5.671	(1.006)	16161	0.38268	0.38268(QM)
86	Dibenzofuran	168	5.772	5.778	(1.026)	220771	0.49581	0.49581
87	2,4-Dinitrotoluene	165	5.740	5.746	(1.020)	48233	0.46345	0.46345
91	2,3,5,6-Tetrachlorophenol	232	5.820	5.826	(1.034)	36985	0.45718	0.45718
93	Diethylphthalate	149	5.901	5.906	(1.048)	163475	0.49014	0.49014
94	Fluorene	166	6.023	6.029	(1.070)	180669	0.49946	0.49946
95	4-Chlorophenyl-phenylether	204	6.007	6.008	(1.067)	82753	0.49679	0.49679
96	4-Nitroaniline	138	6.013	6.024	(1.068)	39756	0.43118	0.43118
98	4,6-Dinitro-2-methylphenol	198	6.034	6.040	(0.900)	19965	0.52379	0.52379
99	N-Nitrosodiphenylamine	169	6.088	6.093	(0.908)	120849	0.48794	0.48794
100	1,2-Diphenylhydrazine	77	6.120	6.125	(0.912)	179376	0.48165	0.48165
106	4-Bromophenyl-phenylether	248	6.365	6.365	(0.949)	42290	0.47634	0.47634
107	Hexachlorobenzene	284	6.424	6.430	(0.958)	41212	0.47381	0.47381
212	Atrazine	200	6.451	6.456	(0.962)	28410	0.48208	0.48208
111	Pentachlorophenol	266	6.558	6.563	(0.978)	44230	1.05812	1.0581
115	Phenanthrene	178	6.729	6.729	(1.003)	251507	0.48984	0.48984
116	Anthracene	178	6.766	6.766	(1.009)	247218	0.48571	0.48571
119	Carbazole	167	6.868	6.873	(1.024)	228989	0.46923	0.46923
120	Di-n-Butylphthalate	149	7.081	7.081	(1.056)	238134	0.45449	0.45449
123	Fluoranthene	202	7.594	7.600	(1.132)	240257	0.47073	0.47073
124	Benzidine	184	7.669	7.669	(0.885)	89073	0.53319	0.53319
125	Pyrene	202	7.765	7.770	(0.896)	257574	0.47811	0.47811
131	Butylbenzylphthalate	149	8.187	8.192	(0.945)	95402	0.43294	0.43294
133	3,3'-Dimethoxybenzidine	244	8.577	8.582	(0.990)	25847	0.59140	0.59140
135	3,3'-Dichlorobenzidine	252	8.609	8.620	(0.994)	80706	0.45594	0.45594
136	Benzo(a)Anthracene	228	8.652	8.663	(0.999)	249133	0.47633	0.47633
137	Chrysene	228	8.684	8.695	(1.002)	242593	0.48295	0.48295
138	4,4'-Methylene bis(o-chloroan	231	8.604	8.615	(0.993)	38282	0.50081	0.50081

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.598	8.604	(0.993)	138141	0.44319	0.44319
140 Di-n-octylphthalate	149	9.138	9.143	(0.908)	187096	0.49507	0.49507
141 Benzo(b)fluoranthene	252	9.624	9.640	(0.956)	195629	0.44320	0.44320
142 Benzo(k)fluoranthene	252	9.656	9.672	(0.959)	248701	0.48834	0.48834
146 Benzo(a)pyrene	252	10.003	10.020	(0.994)	189344	0.45107	0.45107
149 Indeno(1,2,3-cd)pyrene	276	11.585	11.622	(1.151)	191756	0.43745	0.43745
150 Dibenz(a,h)anthracene	278	11.606	11.638	(1.153)	151505	0.47499	0.47498
151 Benzo(g,h,i)perylene	276	12.055	12.092	(1.197)	167030	0.44716	0.44716
198 1,4-Dioxane	88	1.686	1.691	(0.486)	41419	0.48137	0.48137
101 Diphenylamine	169	6.088	6.093	(0.908)	120849	0.48794	0.48794

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

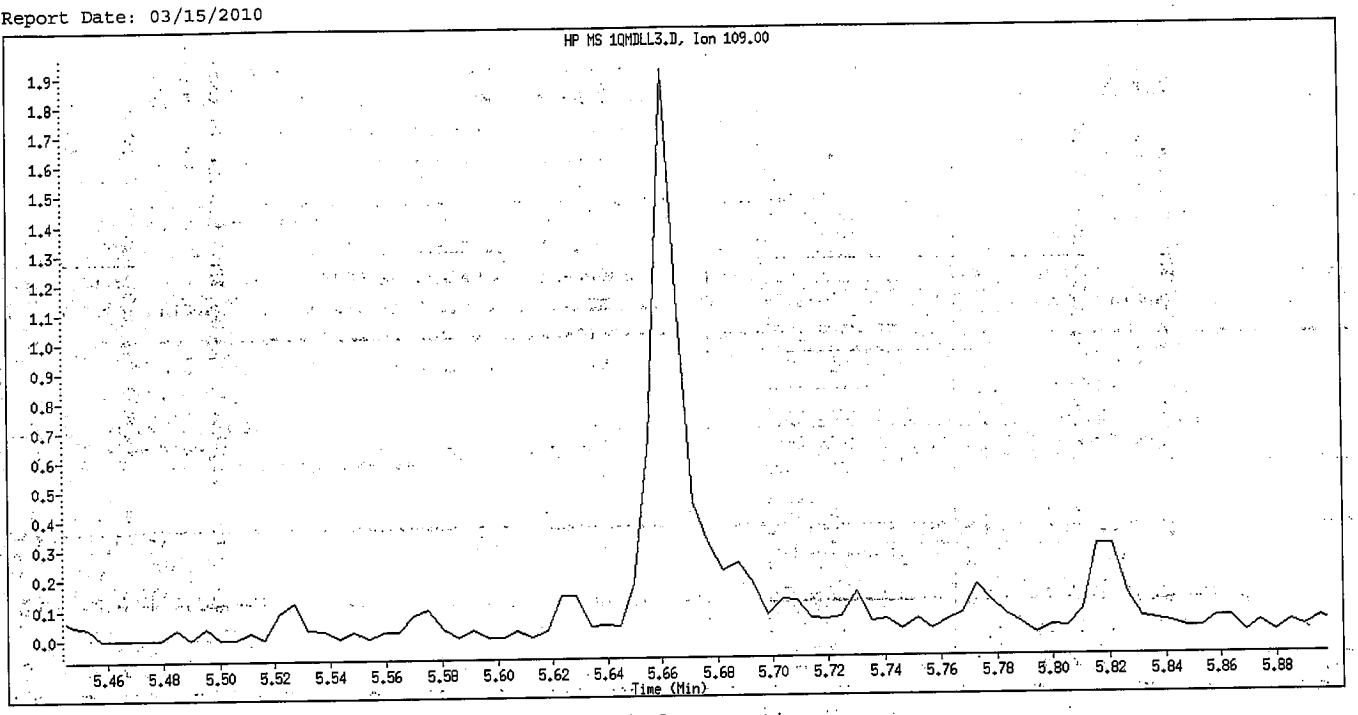


Data File: \\cansvr11\dd\chem\MSS\a4hp10,i\00308t,b\1QHDLL3,D
Date : 08-MAR-2010 15:50
Client ID: SSTD003
Sample Info: L3,00308a,b,8270C-625,1-827042d,sub,1,,3
Column phase: db5,625

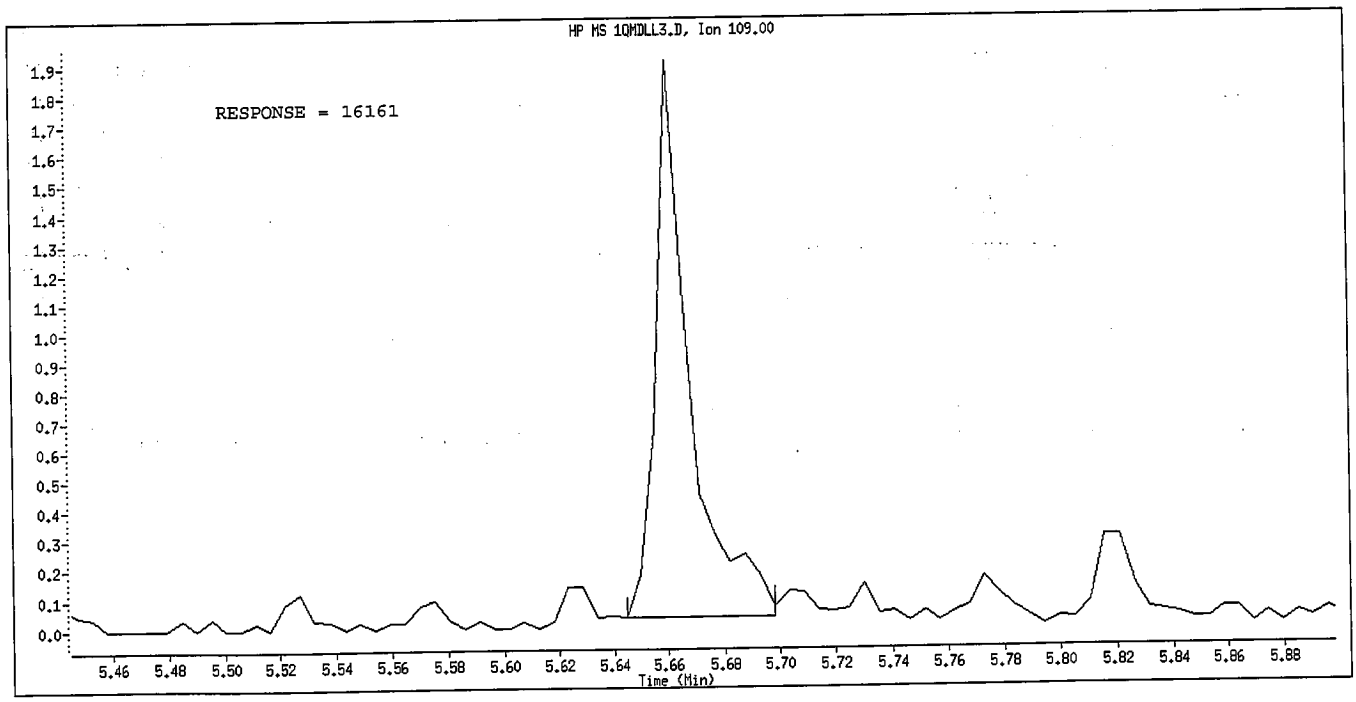
Instrument: a4hp10,i
Operator: 001710
Column diameter: 0,32

\\cansvr11\dd\chem\MSS\a4hp10,i\00308t,b\1QHDLL3,D

Data File Name: 1QMDLL3.D
Inj. Date and Time: 08-MAR-2010 15:50
Instrument ID: a4hp10.i
Client ID: SSTD003
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/15/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

Date : 08-MAR-2010 14:51

Client ID:

Instrument: a4hp10.i

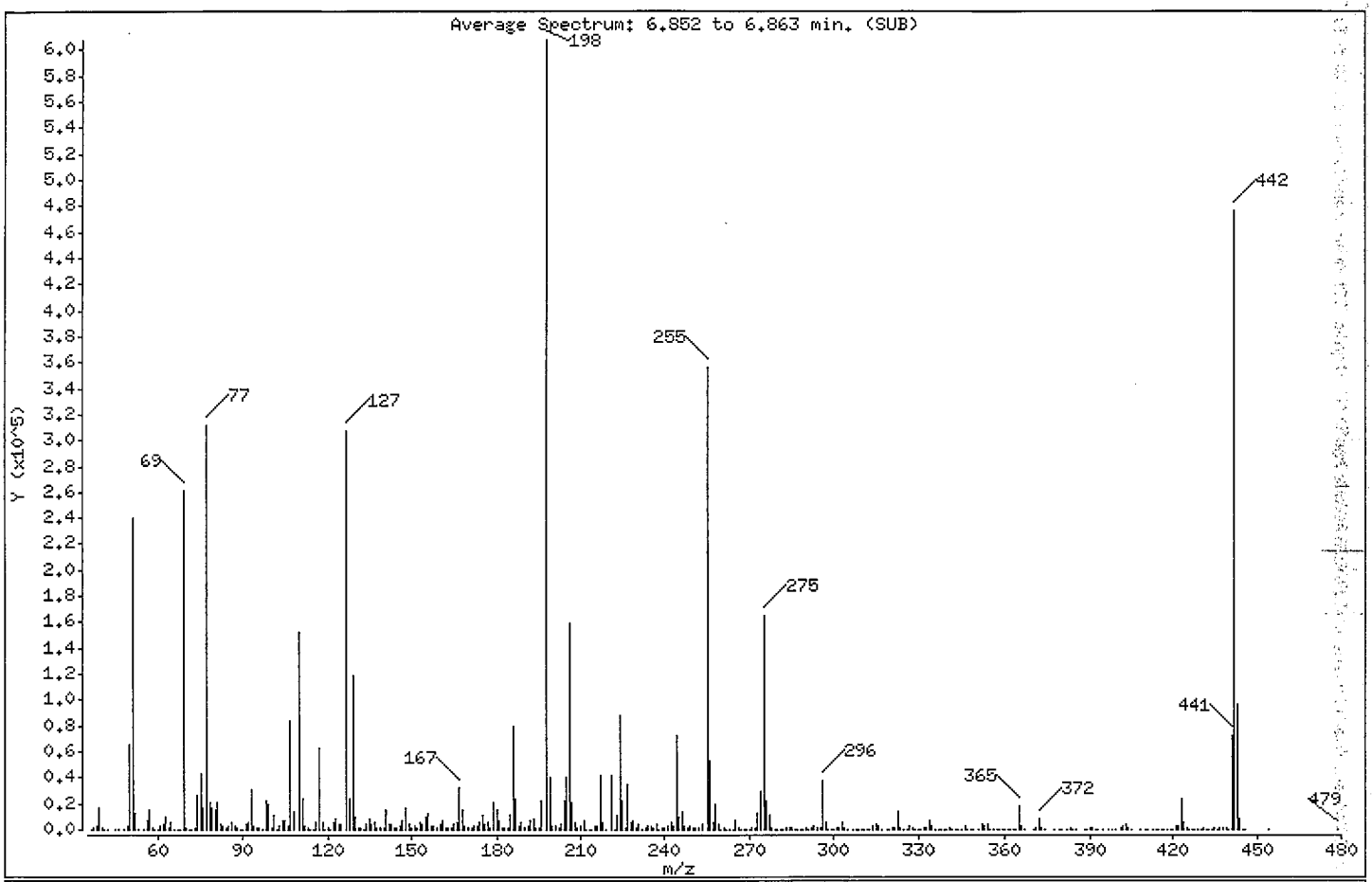
Sample Info: dftpp,00308a.b,dftpp390

Operator: 001710

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	39.65
68	Less than 2.00% of mass 69	0.01 (0.02)
69	Mass 69 relative abundance	42.89
70	Less than 2.00% of mass 69	0.26 (0.62)
127	25.00 - 75.00% of mass 198	50.59
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.57
275	10.00 - 30.00% of mass 198	27.18
365	Greater than 0.75% of mass 198	2.98
441	Present, but less than mass 443	12.06
442	40.00 - 110.00% of mass 198	78.41
443	15.00 - 24.00% of mass 442	15.85 (20.22)

Date : 08-MAR-2010 14:51

Client ID: Instrument: a4hp10.i

Sample Info: dftpp,00308a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 1DF0308.D
Spectrum: Average Spectrum: 6.852 to 6.863 min. (SUB)
Location of Maximum: 198.00
Number of points: 386

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	53	139.00	868	238.00	637	338.00	71
37.00	1102	140.00	1582	239.00	1535	339.00	223
38.00	2920	141.00	15460	240.00	1605	340.00	130
39.00	17432	142.00	4679	241.00	2330	341.00	1962
40.00	822	143.00	3980	242.00	5354	342.00	598
41.00	172	144.00	1079	243.00	3141	343.00	107
42.00	498	145.00	938	244.00	73256	344.00	240
45.00	422	146.00	2745	245.00	10236	345.00	189
46.00	300	147.00	7173	246.00	13343	346.00	3082
48.00	477	148.00	17256	247.00	2500	347.00	522
49.00	2176	149.00	4094	248.00	1117	348.00	91
50.00	65552	150.00	1151	249.00	2338	349.00	178
51.00	240832	151.00	2223	250.00	759	351.00	270
52.00	12543	152.00	1565	251.00	943	352.00	4089
53.00	553	153.00	5460	252.00	1345	353.00	2735
55.00	655	154.00	3668	253.00	3725	354.00	3814
56.00	6482	155.00	9223	255.00	355712	355.00	624
57.00	15914	156.00	12593	256.00	53456	356.00	62
58.00	844	157.00	2660	257.00	5073	357.00	67
59.00	442	158.00	3491	258.00	19464	358.00	65
60.00	151	159.00	1945	259.00	3750	359.00	202
61.00	2986	160.00	4592	260.00	570	360.00	239
62.00	3579	161.00	7076	261.00	709	361.00	306
63.00	9386	162.00	2027	262.00	364	362.00	199
64.00	1735	163.00	727	263.00	122	363.00	521
65.00	5548	164.00	859	264.00	123	364.00	157
66.00	455	165.00	4880	265.00	7306	365.00	18096
67.00	210	166.00	5495	266.00	1109	366.00	2976
68.00	40	167.00	31792	267.00	184	367.00	164
69.00	260480	168.00	15399	268.00	4	370.00	458
70.00	1604	169.00	2583	269.00	454	371.00	1256
71.00	217	170.00	1169	270.00	612	372.00	7954
72.00	450	171.00	1244	271.00	1290	373.00	1982
73.00	2084	172.00	2464	272.00	1540	374.00	239
74.00	27160	173.00	3473	273.00	12044	377.00	75

Date : 08-MAR-2010 14:51

Client ID: Instrument: a4hp10.i

Sample Info: dftpp,00308a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 1DF0308.D
Spectrum: Average Spectrum: 6.852 to 6.863 min. (SUB)
Location of Maximum: 198.00
Number of points: 386

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	43320	174.00	6221	274.00	29448	379.00	74
76.00	17112	175.00	10912	275.00	165056	380.00	131
77.00	312000	176.00	4283	276.00	21944	382.00	183
78.00	20368	177.00	5581	277.00	11767	383.00	1520
79.00	17176	178.00	1649	278.00	2000	384.00	551
80.00	14918	179.00	20984	279.00	600	385.00	66
81.00	20264	180.00	15011	280.00	292	388.00	61
82.00	4601	181.00	7108	281.00	183	389.00	122
83.00	3056	182.00	1210	282.00	228	390.00	1097
84.00	926	183.00	898	283.00	1691	391.00	1118
85.00	3338	184.00	1899	284.00	1073	392.00	514
86.00	5872	185.00	10859	285.00	1934	393.00	55
87.00	2451	186.00	79776	286.00	471	395.00	111
88.00	804	187.00	23600	287.00	75	397.00	199
89.00	541	188.00	2555	288.00	127	398.00	50
90.00	85	189.00	5557	289.00	346	399.00	51
91.00	4014	190.00	1209	290.00	706	401.00	796
92.00	5336	191.00	2538	291.00	373	402.00	2803
93.00	30560	192.00	6954	292.00	937	403.00	3709
94.00	2176	193.00	7806	293.00	2517	404.00	1270
95.00	769	194.00	1552	294.00	1807	405.00	226
96.00	1523	195.00	707	295.00	730	408.00	73
97.00	40	196.00	22560	296.00	37400	410.00	169
98.00	22704	198.00	607488	297.00	6017	411.00	175
99.00	19144	199.00	39896	298.00	384	413.00	113
100.00	1809	200.00	2586	299.00	162	414.00	56
101.00	10865	201.00	2399	300.00	161	415.00	161
102.00	413	202.00	1613	301.00	737	416.00	231
103.00	3427	203.00	4620	302.00	1072	417.00	59
104.00	7045	204.00	22104	303.00	4951	418.00	247
105.00	7493	205.00	40864	304.00	1430	419.00	144
106.00	2916	206.00	159360	305.00	218	420.00	240
107.00	84072	207.00	20664	307.00	152	421.00	3171
108.00	13855	208.00	5167	308.00	409	422.00	3401
110.00	151808	209.00	1504	309.00	366	423.00	24312

Date : 08-MAR-2010 14:51

Client ID: Instrument: a4hp10.i

Sample Info: dftpp,00308a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 1DF0308.D
Spectrum: Average Spectrum: 6.852 to 6.863 min. (SUB)
Location of Maximum: 198.00
Number of points: 386

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	23240	210.00	2201	310.00	648	424.00	5343
112.00	2397	211.00	6841	311.00	289	425.00	780
113.00	901	212.00	326	312.00	317	426.00	310
114.00	649	213.00	597	313.00	473	427.00	536
115.00	51	214.00	301	314.00	2169	428.00	269
116.00	5100	215.00	2329	315.00	4302	429.00	375
117.00	62968	216.00	2136	316.00	2770	430.00	418
118.00	5685	217.00	41360	317.00	403	431.00	776
119.00	522	218.00	5152	319.00	411	432.00	607
120.00	1389	219.00	503	320.00	249	433.00	633
121.00	366	221.00	41888	321.00	1297	434.00	567
122.00	5504	222.00	607	322.00	1242	435.00	741
123.00	8734	223.00	11243	323.00	13806	436.00	278
124.00	4554	224.00	87776	324.00	2040	437.00	1124
125.00	4578	225.00	22400	325.00	556	438.00	735
127.00	307328	226.00	1728	326.00	205	439.00	1812
128.00	24328	227.00	35264	327.00	2514	440.00	347
129.00	118112	228.00	5536	328.00	1479	441.00	73240
130.00	10278	229.00	7668	329.00	425	442.00	476352
131.00	2086	230.00	1294	330.00	144	443.00	96304
132.00	997	231.00	3843	331.00	120	444.00	8915
133.00	277	232.00	539	332.00	1338	445.00	592
134.00	3841	233.00	736	333.00	1416	446.00	84
135.00	8552	234.00	2614	334.00	7477	454.00	65
136.00	3969	235.00	2747	335.00	2224	479.00	83
137.00	4935	236.00	1518	336.00	281		
138.00	1339	237.00	3591	337.00	95		

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308t.b\1DF0308T.D

Date : 08-MAR-2010 14:51

Client ID:

Instrument: a4hp10.i

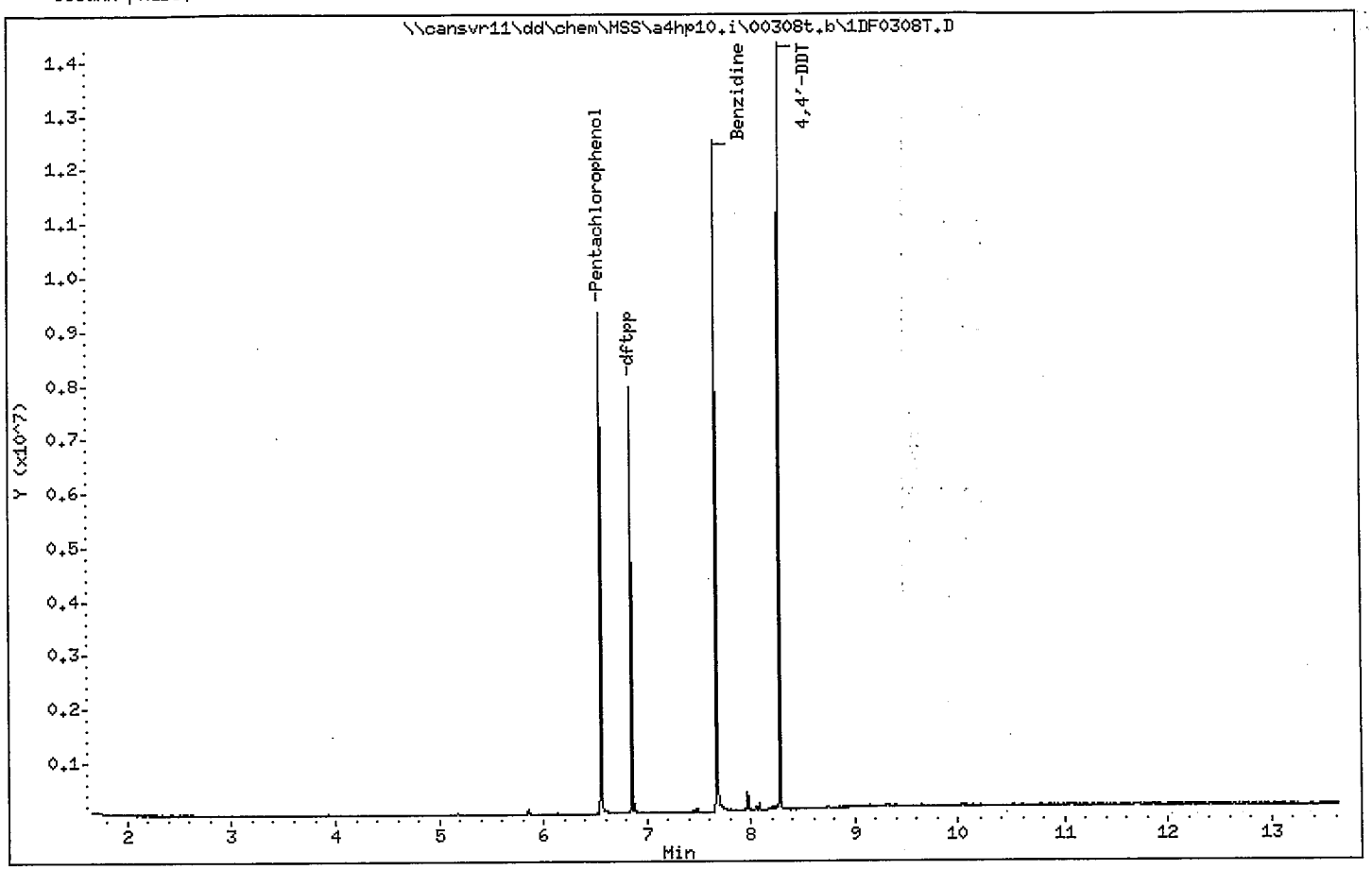
Sample Info: dftpp,00308a.b,dftpp390

Volume Injected (uL): 1.0

Operator: 001710

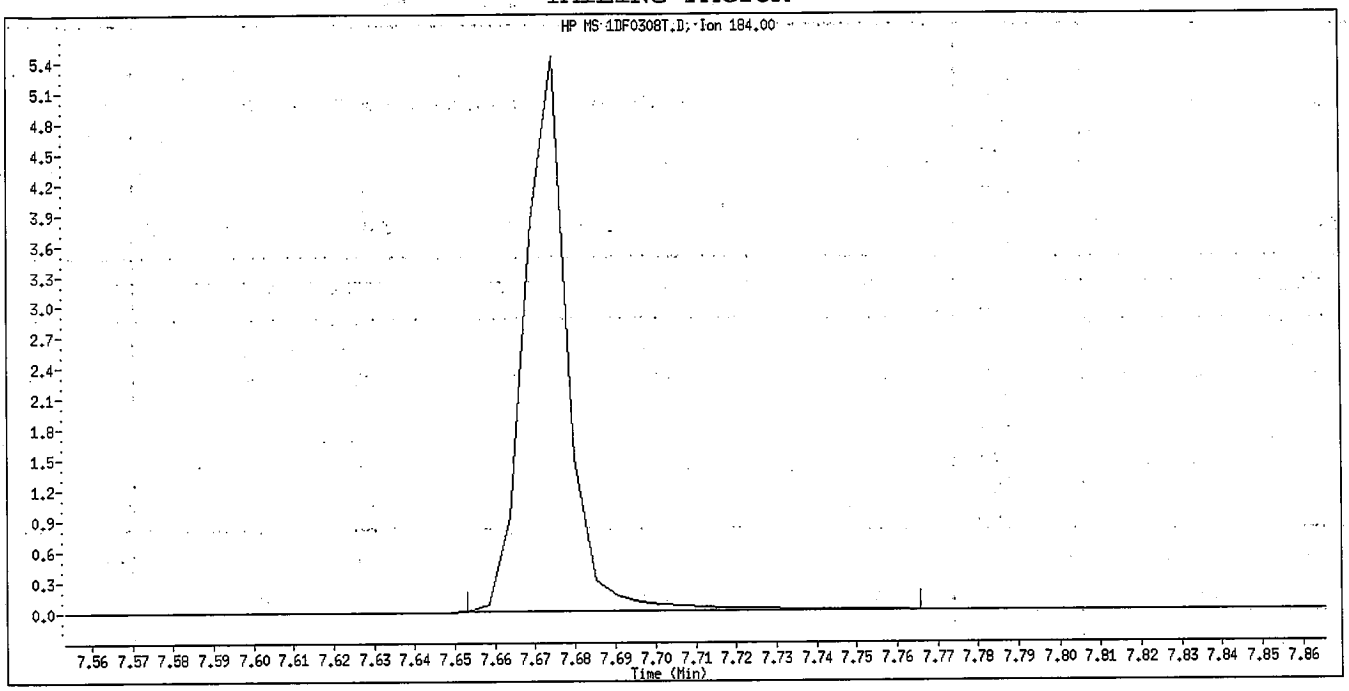
Column phase:

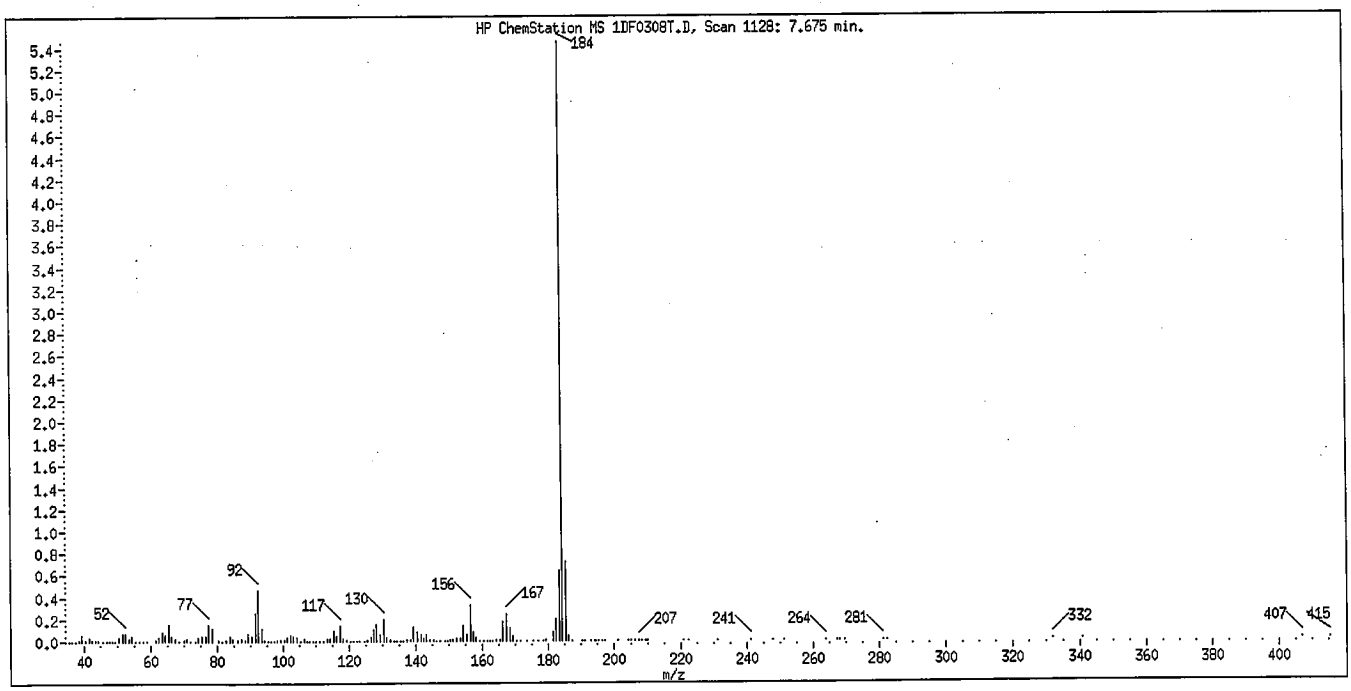
Column diameter: 2.00



Data File: 1DF0308T.D
Inj Date: 08-MAR-2010 14:51
Instrument ID: a4hp10.i
Compound Name: Benzidine
Operator Name: 001710
Report Date: 03/08/2010

TAILING FACTOR

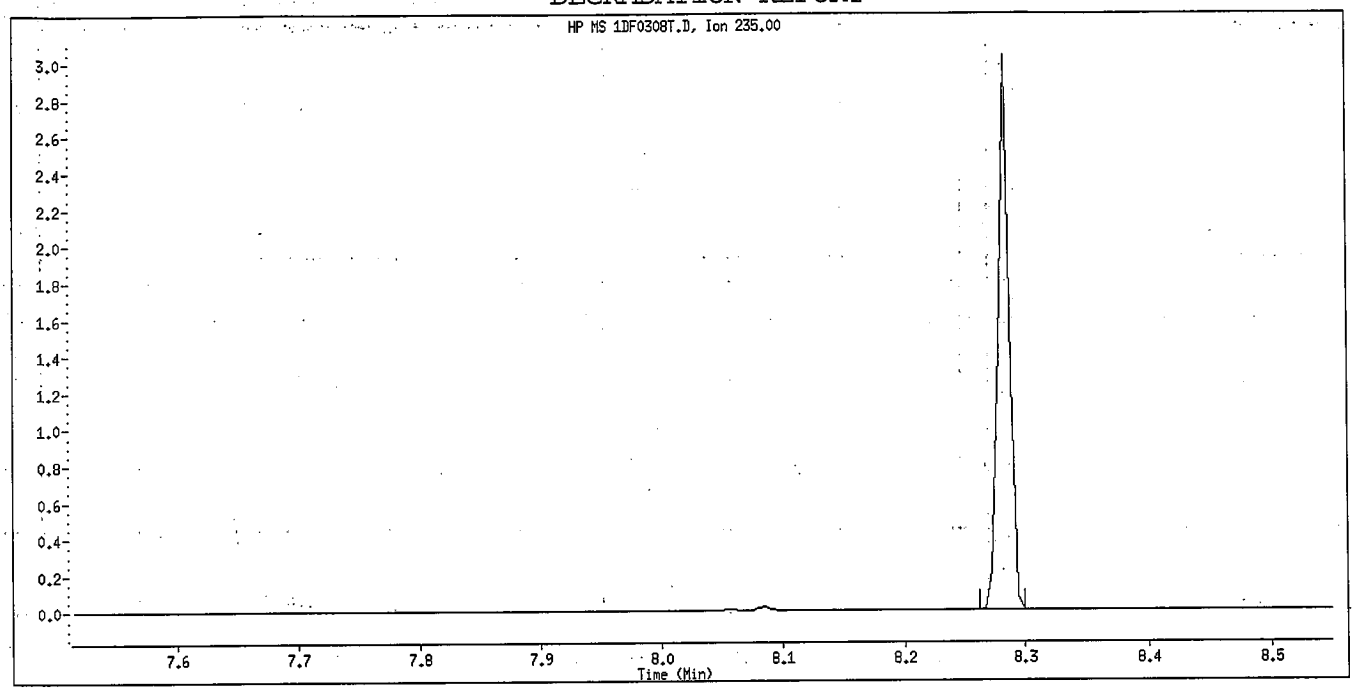




Tailing Factor = 0.733 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 7.661604 T2 = 7.6747 T3 = 7.684305

Data File: 1DF0308T.D
Inj Date: 08-MAR-2010 14:51
Instrument ID: a4hp10.i
Compound Name: 4,4'-DDT
Operator Name: 001710
Report Date: 03/08/2010

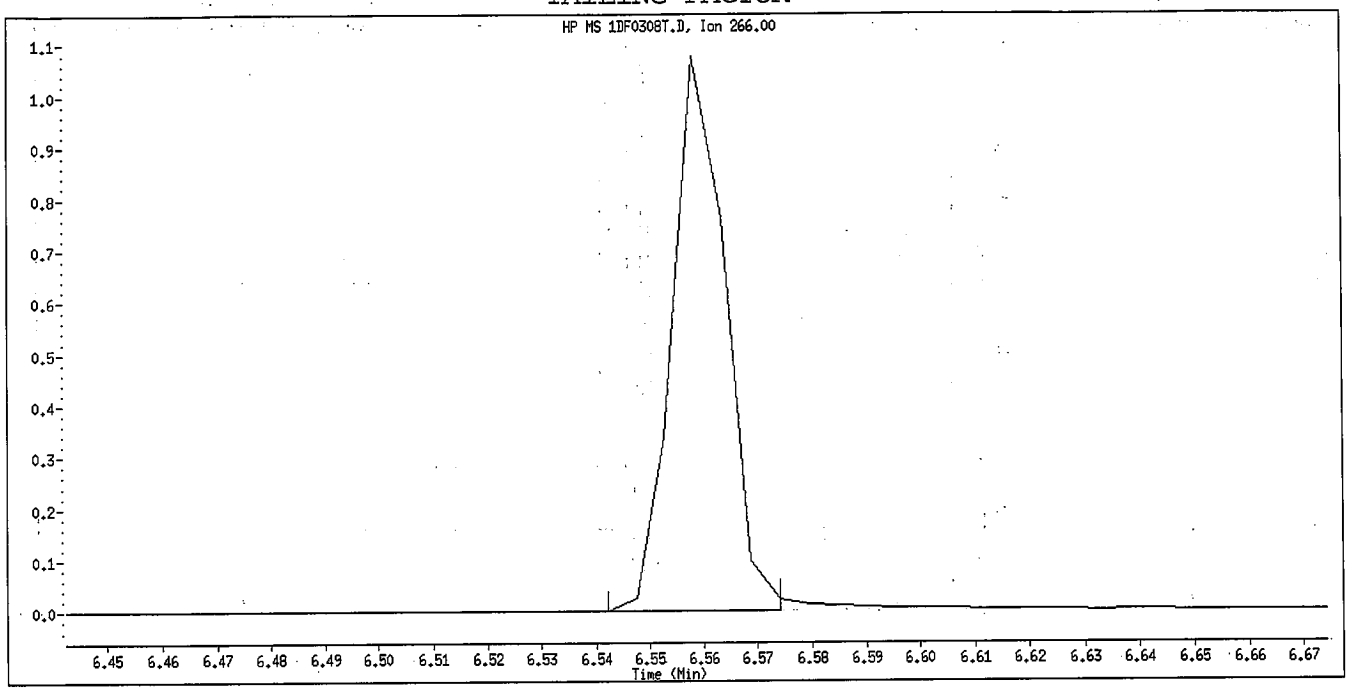
DEGRADATION REPORT

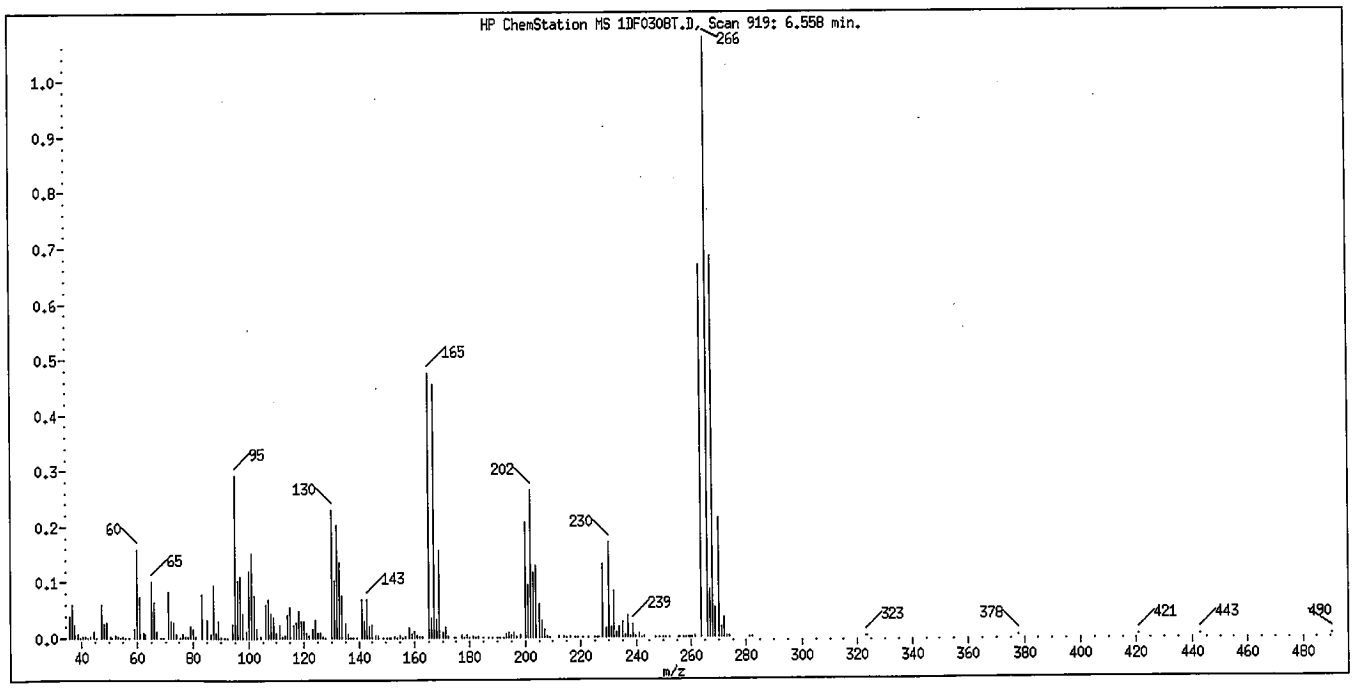


Degradation = 0% Good
Acceptance Criteria 0 - 20 %
DDT Area = 1938934
DDE Area = 0
DDD Area = 0

Data File: 1DF0308T.D
Inj Date: 08-MAR-2010 14:51
Instrument ID: a4hp10.i
Compound Name: Pentachlorophenol
Operator Name: 001710
Report Date: 03/08/2010

TAILING FACTOR





Tailing Factor = 1.14 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.548884 T2 = 6.558167 T3 = 6.568764

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\1DF0312.D

Date : 12-MAR-2010 09:00

Client ID:

Instrument: a4hp10.i

Sample Info: dftpp,00312a.b,dftpp390

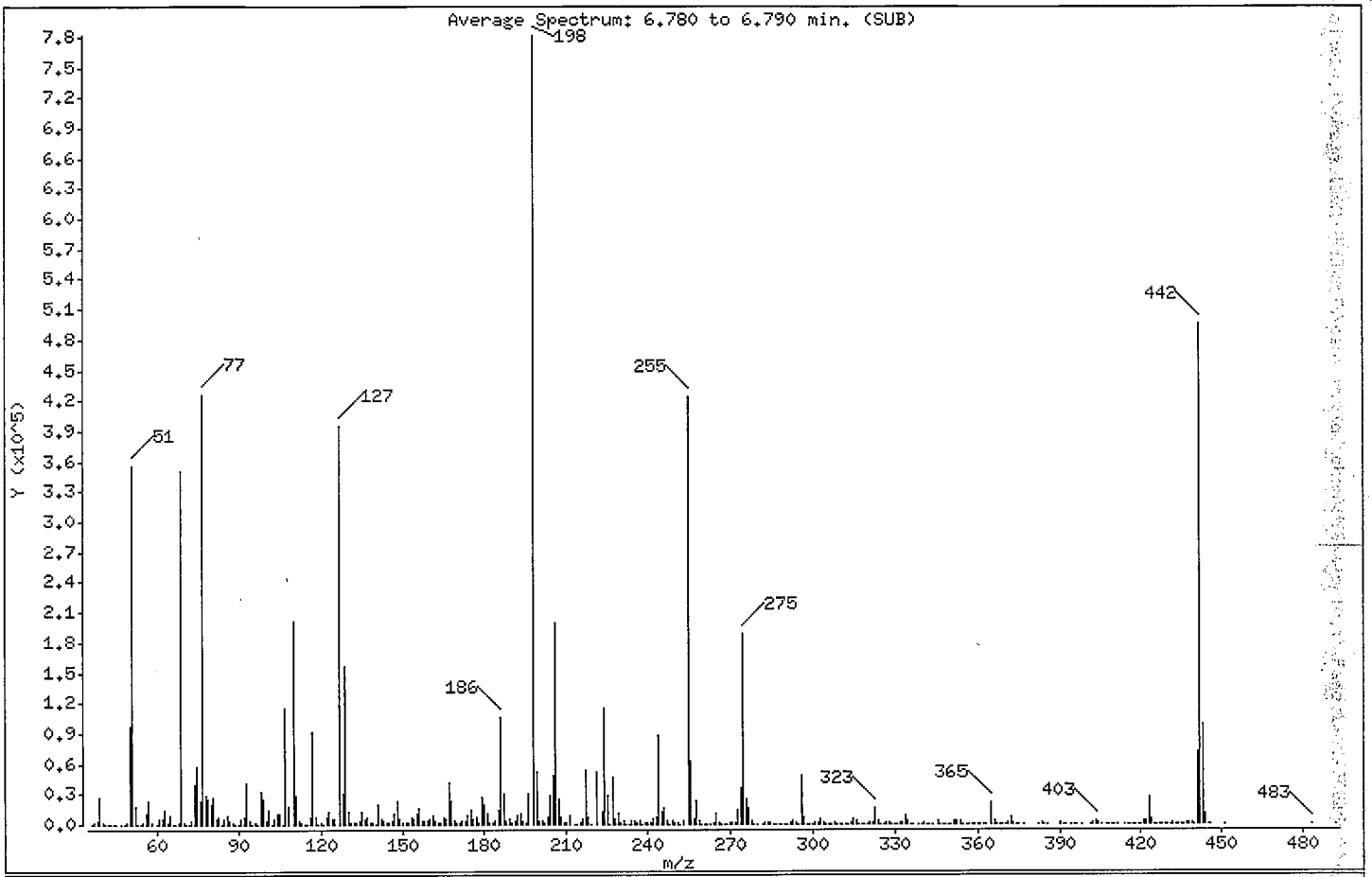
Operator: 001710

Column phase:

Column diameter: 2.00

1 dftpp

OKmw 3/12/10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	45.45
68	Less than 2.00% of mass 69	0.21 (0.48)
69	Mass 69 relative abundance	44.91
70	Less than 2.00% of mass 69	0.23 (0.51)
127	25.00 - 75.00% of mass 198	50.57
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.77
275	10.00 - 30.00% of mass 198	24.15
365	Greater than 0.75% of mass 198	2.69
441	Present, but less than mass 443	9.30
442	40.00 - 110.00% of mass 198	63.53
443	15.00 - 24.00% of mass 442	12.73 (20.04)

Date : 12-MAR-2010 09:00

Client ID: Instrument: a4hp10.i

Sample Info: dftpp,00312a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 1DF0312.D
Spectrum: Average Spectrum: 6.780 to 6.790 min. (SUB)
Location of Maximum: 198.00
Number of points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	660	137.00	7079	238.00	609	337.00	126
37.00	1662	138.00	1621	239.00	1889	339.00	252
38.00	4452	139.00	970	240.00	1418	340.00	573
39.00	27328	140.00	693	241.00	2503	341.00	1989
40.00	1514	141.00	20168	242.00	5640	342.00	260
41.00	875	142.00	6217	243.00	7795	343.00	127
42.00	252	143.00	4258	244.00	88088	344.00	67
43.00	222	144.00	1084	245.00	12798	346.00	4274
44.00	502	145.00	1230	246.00	15568	347.00	883
45.00	750	146.00	3655	247.00	2985	348.00	56
47.00	39	147.00	10725	248.00	846	349.00	55
48.00	327	148.00	23160	249.00	2850	350.00	135
49.00	2420	149.00	4862	250.00	1107	351.00	456
50.00	96608	150.00	1232	251.00	1331	352.00	4364
51.00	355136	151.00	2604	252.00	719	353.00	2947
52.00	18304	152.00	1425	253.00	4417	354.00	4320
53.00	842	153.00	6542	255.00	424768	355.00	668
54.00	114	154.00	5189	256.00	63328	356.00	298
55.00	1634	155.00	11106	257.00	5801	357.00	96
56.00	10769	156.00	15593	258.00	23448	358.00	163
57.00	23400	157.00	3356	259.00	3296	359.00	475
58.00	1316	158.00	3943	260.00	685	360.00	149
60.00	156	159.00	2932	261.00	887	361.00	266
61.00	4825	160.00	5948	262.00	31	362.00	232
62.00	5484	161.00	9267	263.00	447	363.00	388
63.00	14769	162.00	2782	264.00	919	365.00	21048
64.00	2207	163.00	924	265.00	10555	366.00	2946
65.00	8618	164.00	916	266.00	1111	367.00	408
66.00	782	165.00	6290	267.00	276	368.00	53
67.00	94	166.00	5938	268.00	19	369.00	50
68.00	1676	167.00	41528	269.00	548	370.00	596
69.00	350976	168.00	22752	270.00	1267	371.00	1334
70.00	1806	169.00	3446	271.00	1255	372.00	7152
71.00	558	170.00	1777	272.00	1363	373.00	2078
72.00	111	171.00	2153	273.00	14221	374.00	327

Date : 12-MAR-2010 09:00

Client ID: Instrument: a4hp10.i

Sample Info: dftpp,00312a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 1DF0312.D
Spectrum: Average Spectrum: 6.780 to 6.790 min. (SUB)
Location of Maximum: 198.00
Number of points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	2741	172.00	4248	274.00	35784	375.00	103
74.00	38776	173.00	4448	275.00	188736	377.00	66
75.00	58160	174.00	8853	276.00	25280	382.00	117
76.00	23560	175.00	14866	277.00	16200	383.00	1980
77.00	425216	176.00	5510	278.00	2727	384.00	696
78.00	29400	177.00	8011	279.00	326	385.00	329
79.00	25472	178.00	1566	280.00	153	390.00	911
80.00	19344	179.00	27712	282.00	687	391.00	883
81.00	26280	180.00	19680	283.00	1523	392.00	707
82.00	6148	181.00	10273	284.00	1035	394.00	65
83.00	6305	182.00	1869	285.00	2241	395.00	116
84.00	878	183.00	1634	286.00	537	396.00	107
85.00	5220	184.00	3128	287.00	279	398.00	123
86.00	8440	185.00	15149	288.00	159	401.00	889
87.00	3356	186.00	105952	289.00	622	402.00	2368
88.00	1878	187.00	31200	290.00	679	403.00	4065
89.00	752	188.00	3490	291.00	217	404.00	1179
90.00	407	189.00	6278	292.00	1012	405.00	80
91.00	6208	190.00	1531	293.00	3524	407.00	51
92.00	7652	191.00	3320	294.00	1204	408.00	82
93.00	40448	192.00	9307	295.00	98	409.00	59
94.00	2864	193.00	10997	296.00	47752	410.00	125
95.00	343	194.00	2920	297.00	6699	411.00	211
96.00	2223	195.00	1253	298.00	629	414.00	58
97.00	318	196.00	30136	299.00	283	415.00	350
98.00	32200	198.00	781568	300.00	129	416.00	78
99.00	25720	199.00	52944	301.00	903	417.00	78
100.00	2787	200.00	4420	302.00	1702	418.00	60
101.00	13902	201.00	3240	303.00	5507	419.00	55
102.00	727	202.00	1820	304.00	1410	420.00	256
103.00	5423	203.00	6441	305.00	256	421.00	3489
104.00	10909	204.00	29192	306.00	158	422.00	3246
105.00	10116	205.00	49368	307.00	321	423.00	26480
106.00	688	206.00	199744	308.00	942	424.00	6147
107.00	114312	207.00	25504	309.00	424	425.00	558

Date : 12-MAR-2010 09:00

Client ID: Instrument: a4hp10.i

Sample Info: dftpp,00312a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 1DF0312.D
Spectrum: Average Spectrum: 6.780 to 6.790 min. (SUB)
Location of Maximum: 198.00
Number of points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	18768	208.00	6932	310.00	524	426.00	50
110.00	200832	209.00	1786	311.00	185	427.00	407
111.00	29536	210.00	2356	312.00	295	428.00	719
112.00	3782	211.00	8462	313.00	773	429.00	499
113.00	1357	213.00	805	314.00	2627	430.00	507
114.00	660	214.00	344	315.00	5519	431.00	577
115.00	515	215.00	2689	316.00	3043	432.00	1023
116.00	7118	216.00	5295	317.00	522	433.00	312
117.00	91952	217.00	53448	318.00	144	434.00	564
118.00	7204	218.00	6867	319.00	214	435.00	565
119.00	815	219.00	531	320.00	134	436.00	593
120.00	1744	221.00	52256	321.00	1784	437.00	929
121.00	440	223.00	12191	322.00	1020	438.00	1037
122.00	7962	224.00	114456	323.00	15637	439.00	949
123.00	11699	225.00	29352	324.00	2993	440.00	606
124.00	5588	226.00	571	325.00	304	441.00	72656
125.00	5572	227.00	47032	326.00	544	442.00	496512
127.00	395200	228.00	5870	327.00	2681	443.00	99512
128.00	30120	229.00	10012	328.00	1538	444.00	9902
129.00	156032	230.00	1039	329.00	451	445.00	545
130.00	13271	231.00	3746	330.00	274	446.00	54
131.00	2618	232.00	536	331.00	64	451.00	51
132.00	1234	233.00	878	332.00	1291	483.00	70
133.00	992	234.00	2707	333.00	1627	492.00	56
134.00	3974	235.00	2835	334.00	9008		
135.00	12271	236.00	2389	335.00	2918		
136.00	5632	237.00	3699	336.00	265		

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00308t.b\1DF0312T.D

Date : 12-MAR-2010 09:00

Client ID:

Instrument: a4hp10.i

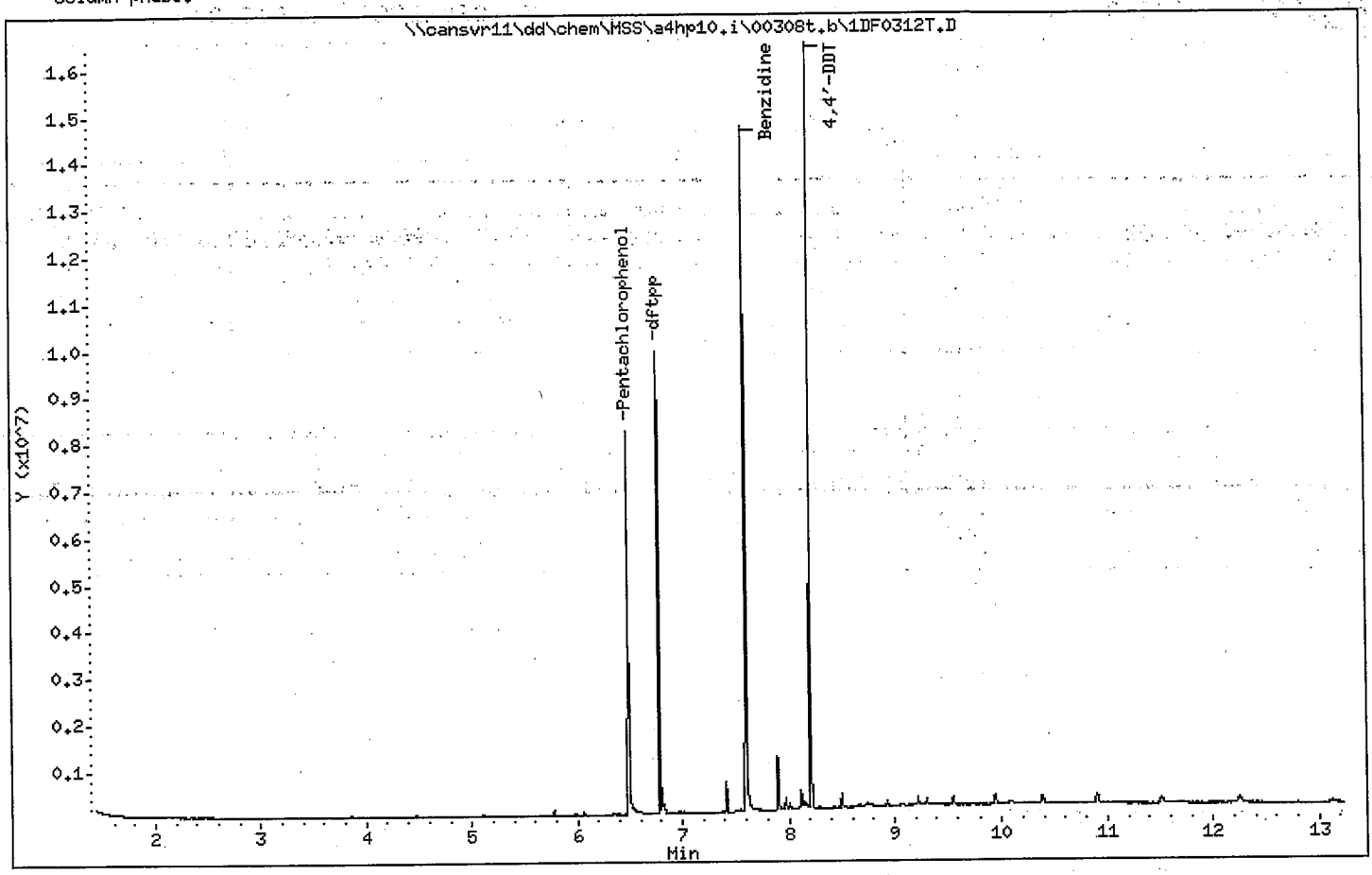
Sample Info: dftpp,00312a.b,dftpp390

Volume Injected (uL): 1.0

Operator: 001710

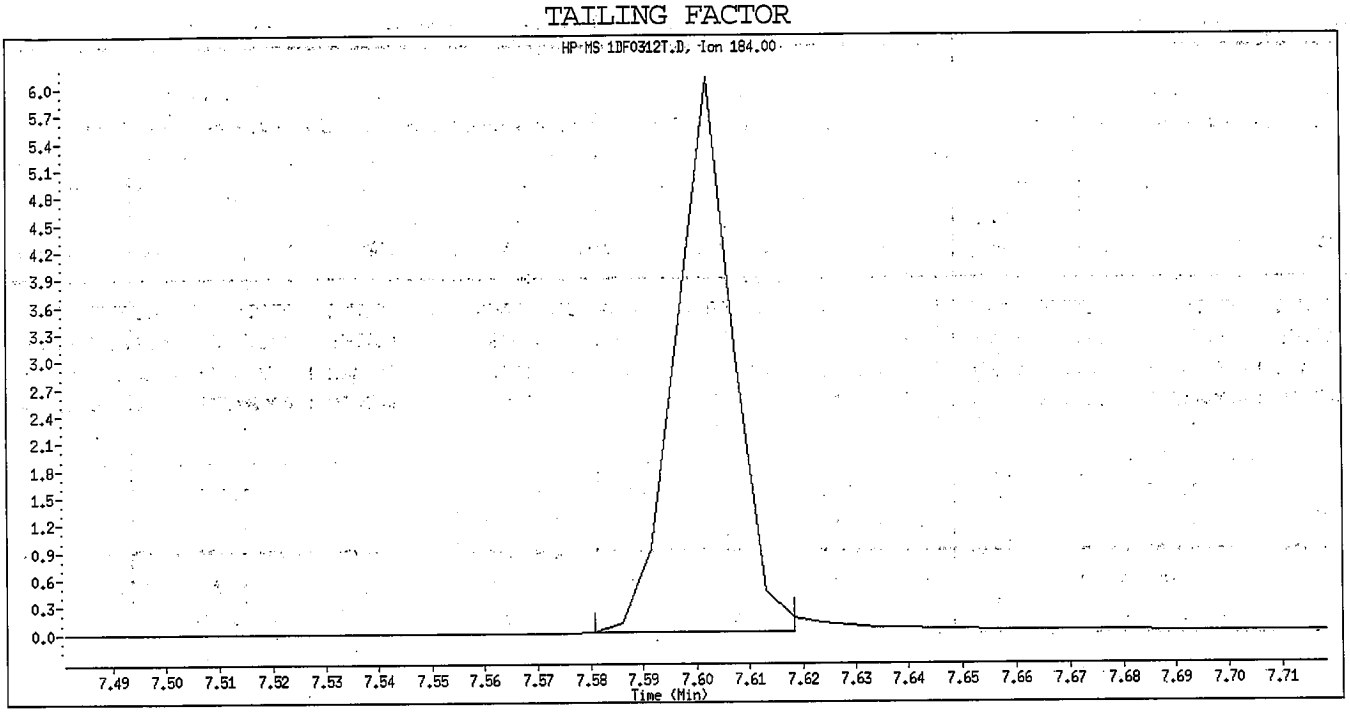
Column phase:

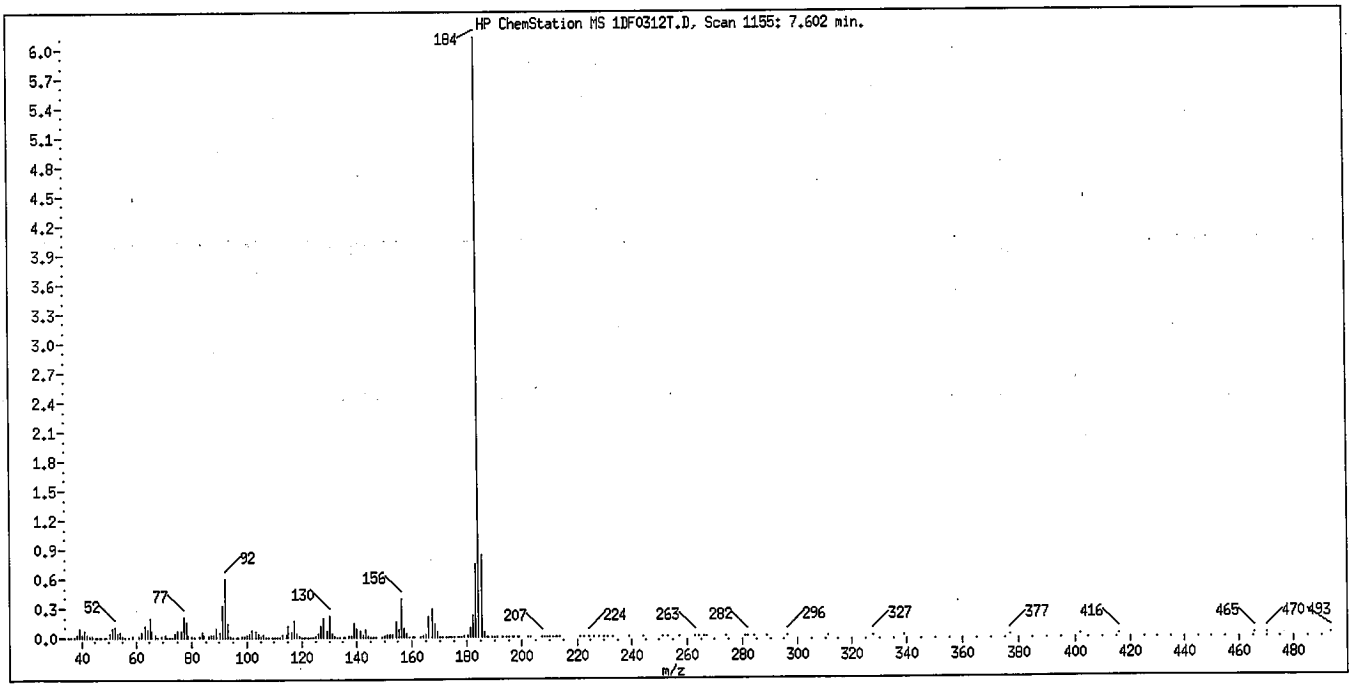
Column diameter: 2.00



Data File: 1DF0312T.D
Inj Date: 12-MAR-2010 09:00
Instrument ID: a4hp10.i
Compound Name: Benzidine
Operator Name: 001710
Report Date: 03/12/2010

TAILING FACTOR

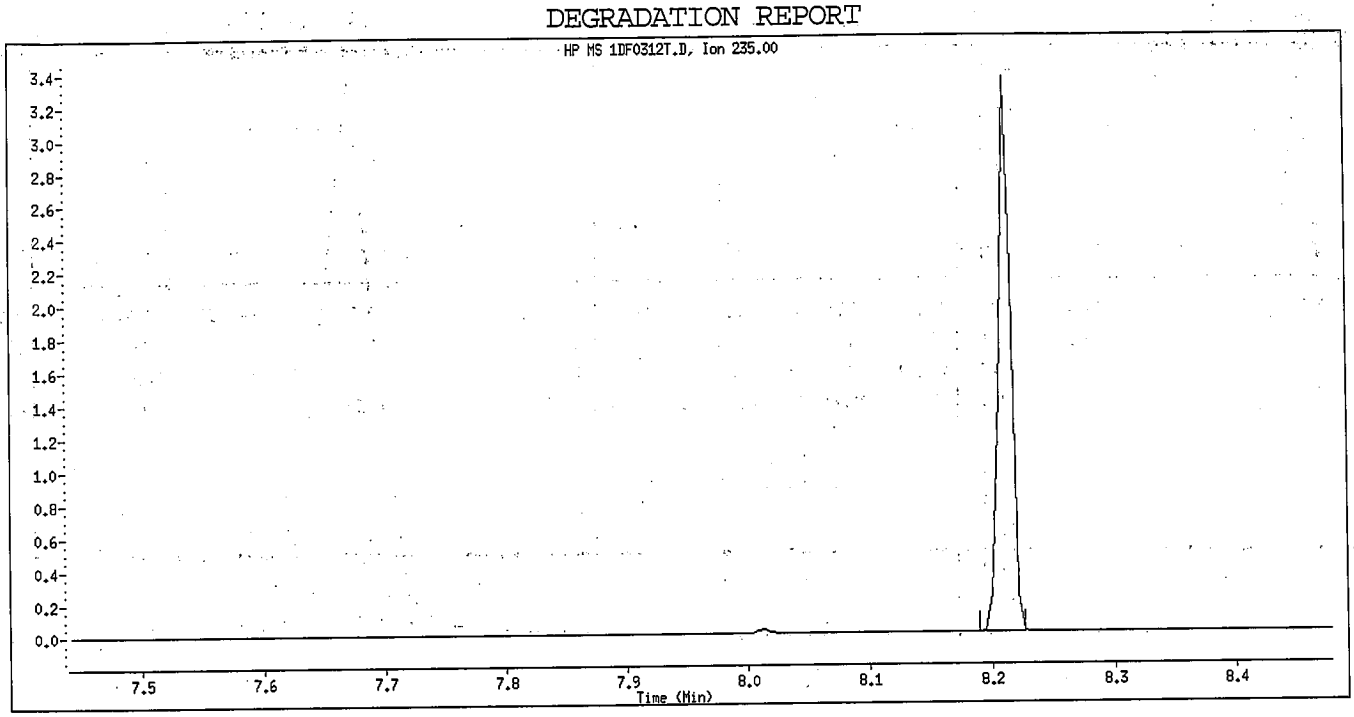




Tailing Factor = 0.817 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 7.589549 T2 = 7.602217 T3 = 7.612569

Data File: 1DF0312T.D
Inj Date: 12-MAR-2010 09:00
Instrument ID: a4hp10.i
Compound Name: 4,4'-DDT
Operator Name: 001710
Report Date: 03/12/2010

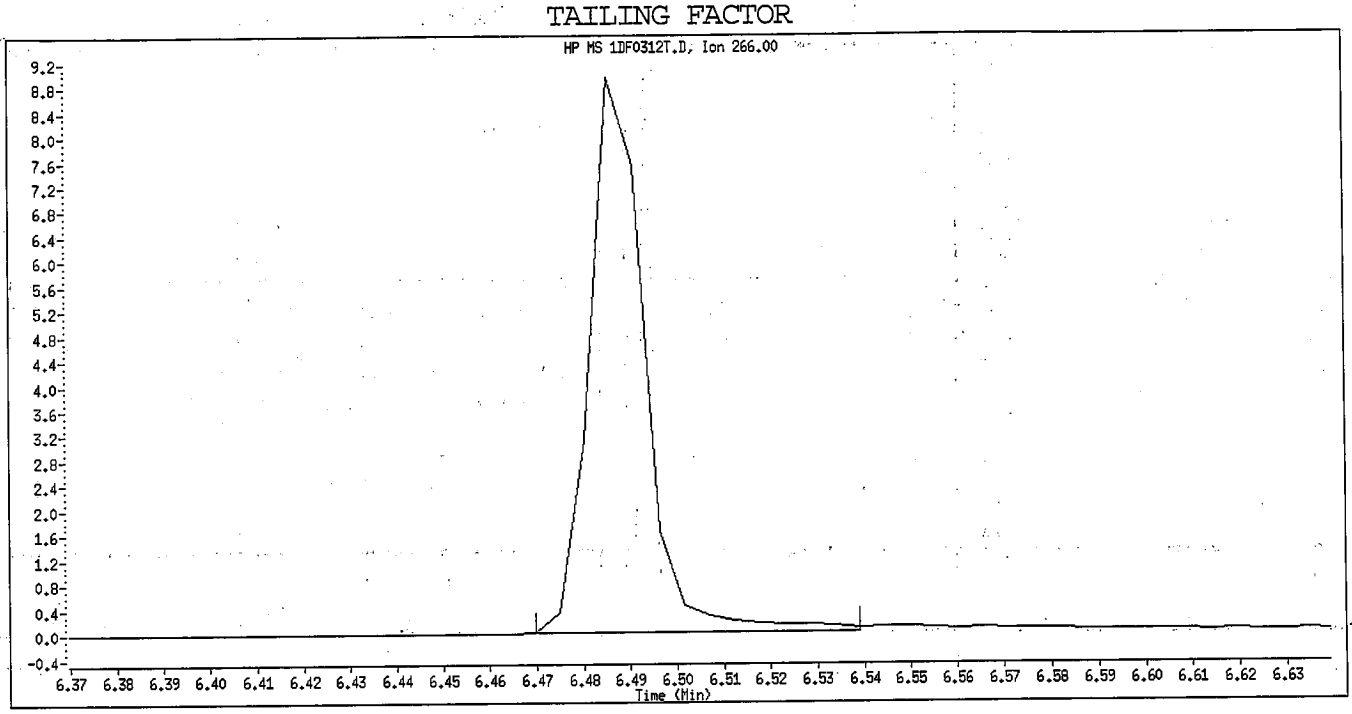
DEGRADATION REPORT

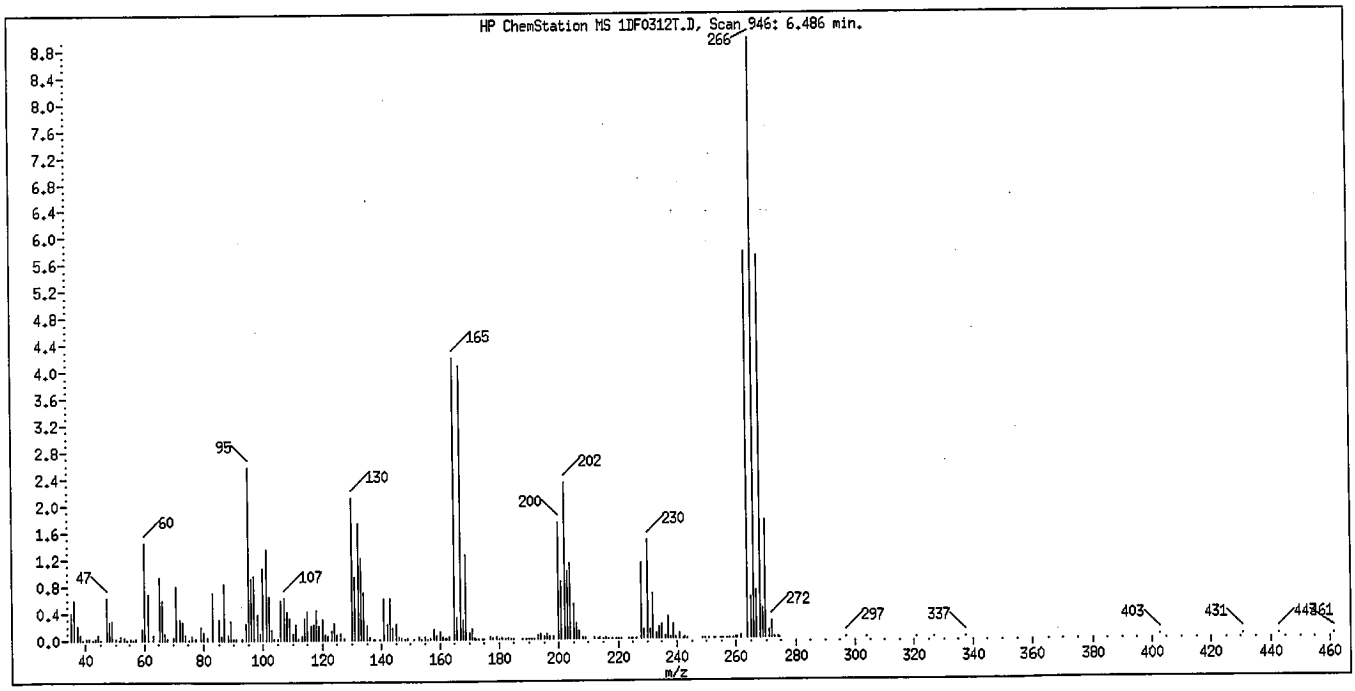


Degradation = 0% Good
Acceptance Criteria 0 - 20 %
DDT Area = 2372467
DDE Area = 0
DDD Area = 0

Data File: 1DF0312T.D
Inj Date: 12-MAR-2010 09:00
Instrument ID: a4hp10.i
Compound Name: Pentachlorophenol
Operator Name: 001710
Report Date: 03/12/2010

TAILING FACTOR





Tailing Factor = 1.46 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.476087 T2 = 6.485683 T3 = 6.499709

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWFDJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C090000-165
Prep Date.....: 03/09/10 **Analysis Date..:** 03/12/10
Prep Batch #...: 0068165
Dilution Factor: 1 **Final Wgt/Vol..:** 2 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	67	(45 - 110)	SW846 8270C
4-Chloro-3-methylphenol	76	(45 - 115)	SW846 8270C
2-Chlorophenol	62	(45 - 105)	SW846 8270C
1,4-Dichlorobenzene	65	(35 - 105)	SW846 8270C
2,4-Dinitrotoluene	81	(50 - 115)	SW846 8270C
4-Nitrophenol	71	(15 - 140)	SW846 8270C
N-Nitrosodi-n-propyl-amine	68	(40 - 115)	SW846 8270C
Pentachlorophenol	44	(25 - 120)	SW846 8270C
Phenol	65	(40 - 100)	SW846 8270C
Pyrene	77	(45 - 125)	SW846 8270C
1,2,4-Trichloro-benzene	64	(45 - 110)	SW846 8270C
bis(2-Ethylhexyl) phthalate	85	(45 - 125)	SW846 8270C
Acenaphthylene	69	(45 - 105)	SW846 8270C
Anthracene	74	(55 - 105)	SW846 8270C
Benzo(a)anthracene	75	(50 - 110)	SW846 8270C
Benzo(b)fluoranthene	81	(45 - 115)	SW846 8270C
Benzo(k)fluoranthene	79	(45 - 125)	SW846 8270C
Benzo(ghi)perylene	80	(40 - 125)	SW846 8270C
Benzo(a)pyrene	69	(50 - 110)	SW846 8270C
bis(2-Chloroethoxy) methane	66	(45 - 110)	SW846 8270C
bis(2-Chloroethyl)-ether	65	(40 - 105)	SW846 8270C
4-Bromophenyl phenyl ether	73	(45 - 115)	SW846 8270C
Butyl benzyl phthalate	83	(50 - 125)	SW846 8270C
Carbazole	76	(45 - 115)	SW846 8270C
4-Chloroaniline	50	(10 - 95)	SW846 8270C
2-Chloronaphthalene	63	(45 - 105)	SW846 8270C
4-Chlorophenyl phenyl ether	71	(45 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWFDJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C090000-165

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chrysene	72	(55 - 110)	SW846 8270C
Dibenzo(a,h)anthracene	81	(40 - 125)	SW846 8270C
Dibenzofuran	69	(50 - 105)	SW846 8270C
Di-n-butyl phthalate	83	(55 - 110)	SW846 8270C
1,2-Dichlorobenzene	65	(45 - 95)	SW846 8270C
1,3-Dichlorobenzene	63	(40 - 100)	SW846 8270C
3,3'-Dichlorobenzidine	51	(10 - 130)	SW846 8270C
2,4-Dichlorophenol	69	(45 - 110)	SW846 8270C
Diethyl phthalate	75	(50 - 115)	SW846 8270C
2,4-Dimethylphenol	59	(30 - 105)	SW846 8270C
Dimethyl phthalate	73	(50 - 110)	SW846 8270C
4,6-Dinitro-2-methylphenol	61	(30 - 135)	SW846 8270C
2,4-Dinitrophenol	34	(15 - 130)	SW846 8270C
2,6-Dinitrotoluene	78	(50 - 110)	SW846 8270C
Di-n-octyl phthalate	84	(40 - 130)	SW846 8270C
Fluoranthene	79	(55 - 115)	SW846 8270C
Fluorene	72	(50 - 110)	SW846 8270C
Hexachlorobenzene	71	(45 - 120)	SW846 8270C
Hexachlorobutadiene	64	(40 - 115)	SW846 8270C
Hexachloroethane	61	(35 - 110)	SW846 8270C
Indeno(1,2,3-cd)pyrene	83	(40 - 120)	SW846 8270C
Isophorone	66	(45 - 110)	SW846 8270C
2-Methylnaphthalene	78	(45 - 105)	SW846 8270C
2-Methylphenol	60	(40 - 105)	SW846 8270C
Naphthalene	67	(40 - 105)	SW846 8270C
2-Nitroaniline	77	(45 - 120)	SW846 8270C
3-Nitroaniline	65	(25 - 110)	SW846 8270C
4-Nitroaniline	81	(35 - 115)	SW846 8270C
Nitrobenzene	69	(40 - 115)	SW846 8270C
2-Nitrophenol	69	(40 - 110)	SW846 8270C
N-Nitrosodiphenylamine	78	(50 - 115)	SW846 8270C
Phenanthrene	72	(50 - 110)	SW846 8270C
2,4,5-Trichloro-phenol	70	(50 - 110)	SW846 8270C
2,4,6-Trichloro-phenol	62	(45 - 110)	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWFDJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C090000-165

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzyl alcohol	**51**	**(20 - 125)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**67**	**(20 - 115)**	**SW846 8270C**
3-Methylphenol & 4-Methylphenol	**65**	**(40 - 105)**	**SW846 8270C**
N-Nitrosodimethylamine	**68**	**(20 - 115)**	**SW846 8270C**
1,2-Diphenylhydrazine (as Azobenzene)	**73**	**(1.0- 175)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	63	(45 - 105)
2-Fluorophenol	65	(35 - 105)
Phenol-d5	64	(40 - 100)
2,4,6-Tribromophenol	58	(35 - 125)
Nitrobenzene-d5	66	(35 - 100)
Terphenyl-d14	87	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWFDJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C090000-165
Prep Date.....: 03/09/10 **Analysis Date..:** 03/12/10
Prep Batch #...: 0068165
Dilution Factor: 1 **Final Wgt/Vol..:** 2 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	670	450	ug/kg	67	SW846 8270C
4-Chloro-3-methylphenol	670	510	ug/kg	76	SW846 8270C
2-Chlorophenol	670	410	ug/kg	62	SW846 8270C
1,4-Dichlorobenzene	670	440	ug/kg	65	SW846 8270C
2,4-Dinitrotoluene	670	540	ug/kg	81	SW846 8270C
4-Nitrophenol	670	470	ug/kg	71	SW846 8270C
N-Nitrosodi-n-propyl-amine	670	450	ug/kg	68	SW846 8270C
Pentachlorophenol	670	300	ug/kg	44	SW846 8270C
Phenol	670	440	ug/kg	65	SW846 8270C
Pyrene	670	510	ug/kg	77	SW846 8270C
1,2,4-Trichloro-benzene	670	430	ug/kg	64	SW846 8270C
bis(2-Ethylhexyl) phthalate	670	570	ug/kg	85	SW846 8270C
Acenaphthylene	670	460	ug/kg	69	SW846 8270C
Anthracene	670	500	ug/kg	74	SW846 8270C
Benzo(a)anthracene	670	500	ug/kg	75	SW846 8270C
Benzo(b)fluoranthene	670	540	ug/kg	81	SW846 8270C
Benzo(k)fluoranthene	670	530	ug/kg	79	SW846 8270C
Benzo(ghi)perylene	670	530	ug/kg	80	SW846 8270C
Benzo(a)pyrene	670	460	ug/kg	69	SW846 8270C
bis(2-Chloroethoxy) methane	670	440	ug/kg	66	SW846 8270C
bis(2-Chloroethyl)-ether	670	430	ug/kg	65	SW846 8270C
4-Bromophenyl phenyl ether	670	490	ug/kg	73	SW846 8270C
Butyl benzyl phthalate	670	550	ug/kg	83	SW846 8270C
Carbazole	670	510	ug/kg	76	SW846 8270C
4-Chloroaniline	670	340	ug/kg	50	SW846 8270C
2-Chloronaphthalene	670	420	ug/kg	63	SW846 8270C
4-Chlorophenyl phenyl ether	670	470	ug/kg	71	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWFDJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C090000-165

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Chrysene	670	480	ug/kg	72	SW846 8270C
Dibenzo(a,h)anthracene	670	540	ug/kg	81	SW846 8270C
Dibenzofuran	670	460	ug/kg	69	SW846 8270C
Di-n-butyl phthalate	670	560	ug/kg	83	SW846 8270C
1,2-Dichlorobenzene	670	440	ug/kg	65	SW846 8270C
1,3-Dichlorobenzene	670	420	ug/kg	63	SW846 8270C
3,3'-Dichlorobenzidine	670	340	ug/kg	51	SW846 8270C
2,4-Dichlorophenol	670	460	ug/kg	69	SW846 8270C
Diethyl phthalate	670	500	ug/kg	75	SW846 8270C
2,4-Dimethylphenol	670	390	ug/kg	59	SW846 8270C
Dimethyl phthalate	670	490	ug/kg	73	SW846 8270C
4,6-Dinitro-2-methylphenol	670	410	ug/kg	61	SW846 8270C
2,4-Dinitrophenol	670	230	ug/kg	34	SW846 8270C
2,6-Dinitrotoluene	670	520	ug/kg	78	SW846 8270C
Di-n-octyl phthalate	670	560	ug/kg	84	SW846 8270C
Fluoranthene	670	530	ug/kg	79	SW846 8270C
Fluorene	670	480	ug/kg	72	SW846 8270C
Hexachlorobenzene	670	470	ug/kg	71	SW846 8270C
Hexachlorobutadiene	670	430	ug/kg	64	SW846 8270C
Hexachloroethane	670	400	ug/kg	61	SW846 8270C
Indeno(1,2,3-cd)pyrene	670	550	ug/kg	83	SW846 8270C
Isophorone	670	440	ug/kg	66	SW846 8270C
2-Methylnaphthalene	670	520	ug/kg	78	SW846 8270C
2-Methylphenol	670	400	ug/kg	60	SW846 8270C
Naphthalene	670	450	ug/kg	67	SW846 8270C
2-Nitroaniline	670	510	ug/kg	77	SW846 8270C
3-Nitroaniline	670	440	ug/kg	65	SW846 8270C
4-Nitroaniline	670	540	ug/kg	81	SW846 8270C
Nitrobenzene	670	460	ug/kg	69	SW846 8270C
2-Nitrophenol	670	460	ug/kg	69	SW846 8270C
N-Nitrosodiphenylamine	670	520	ug/kg	78	SW846 8270C
Phenanthrene	670	480	ug/kg	72	SW846 8270C
2,4,5-Trichloro-phenol	670	460	ug/kg	70	SW846 8270C
2,4,6-Trichloro-phenol	670	420	ug/kg	62	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWFDJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C090000-165

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzyl alcohol	**670**	**340**	**ug/kg**	**51**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**670**	**450**	**ug/kg**	**67**	**SW846 8270C**
3-Methylphenol & 4-Methylphenol	**1300**	**870**	**ug/kg**	**65**	**SW846 8270C**
N-Nitrosodimethylamine	**670**	**450**	**ug/kg**	**68**	**SW846 8270C**
1,2-Diphenylhydrazine (as Azobenzene)	**670**	**490**	**ug/kg**	**73**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	63	(45 - 105)
2-Fluorophenol	65	(35 - 105)
Phenol-d5	64	(40 - 100)
2,4,6-Tribromophenol	58	(35 - 125)
Nitrobenzene-d5	66	(35 - 100)
Terphenyl-d14	87	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\LWFDJ1AC.D
Lab Smp Id: lwfdj1ac Client Smp ID: INTRA-LAB CHECK
Inj Date : 12-MAR-2010 10:17
Operator : 001710 Inst ID: a4hp10.i
Smp Info : lwfdj1ac,00312a.b,8270C-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Meth Date : 12-Mar-2010 09:46 GruberJ Quant Type: ISTD
Cal Date : 08-MAR-2010 16:10 Cal File: 1SL0308.D
Als bottle: 5 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
* 1	1,4-Dichlorobenzene-d4	152	3.397	3.397	(1.000)	266990	2.00000	
* 2	Naphthalene-d8	136	4.284	4.290	(1.000)	990720	2.00000	
* 3	Acenaphthene-d10	164	5.550	5.556	(1.000)	566694	2.00000	
* 4	Phenanthrene-d10	188	6.635	6.635	(1.000)	893852	2.00000	
* 5	Chrysene-d12	240	8.579	8.590	(1.000)	972996	2.00000	
* 6	Perylene-d12	264	9.936	9.947	(1.000)	755220	2.00000	
198	1,4-Dioxane	88	1.608	1.592	(0.473)	114169	1.53673	204.90
9	Pyridine	79	1.805	1.789	(0.531)	450414	2.40499	320.66
10	N-Nitrosodimethylamine	74	1.768	1.763	(0.520)	354023	3.38307	451.08
12	3-Chloropropionitrile	54	Compound Not Detected.					
209	Benzaldehyde	77	3.104	3.109	(0.914)	389809	3.69354	492.47
21	Aniline	93	3.168	3.173	(0.932)	623544	2.42255	323.01
22	Phenol	94	3.114	3.114	(0.917)	690544	3.26608	435.48
23	bis(2-Chloroethyl)ether	93	3.194	3.194	(0.940)	543447	3.22806	430.41
24	2-Chlorophenol	128	3.253	3.253	(0.958)	511596	3.11219	414.96
26	1,3-Dichlorobenzene	146	3.360	3.360	(0.989)	550893	3.16445	421.93
27	1,4-Dichlorobenzene	146	3.408	3.408	(1.003)	564035	3.26990	435.99
28	1,2-Dichlorobenzene	146	3.515	3.515	(1.035)	535313	3.26541	435.39

29	Benzyl Alcohol	108	3.467	3.472 (1.020)	273915	2.55727	340.97
30	2-Methylphenol	108	3.531	3.531 (1.039)	455240	2.99198	398.93

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
31	bis(2-Chloroisopropyl)ether	45	3.558	3.558	(1.047)	774555	3.36324	448.43
37	Acetophenone	105	3.659	3.665	(1.077)	693292	3.18746	424.99
32	N-Nitroso-di-n-propylamine	70	3.649	3.654	(1.074)	391856	3.41104	454.80
192	4-Methylphenol	108	3.633	3.632	(1.069)	1041666	6.52071	869.43(R)
34	Hexachloroethane	117	3.750	3.750	(1.104)	185874	3.03618	404.82
35	Nitrobenzene	77	3.782	3.787	(0.883)	576117	3.43624	458.16
41	Isophorone	82	3.942	3.948	(0.920)	1035846	3.32229	442.97
42	2-Nitrophenol	139	4.006	4.006	(0.935)	280441	3.44876	459.83(Q)
43	2,4-Dimethylphenol	107	4.006	4.012	(0.935)	438549	2.94098	392.13
44	bis(2-Chloroethoxy)methane	93	4.076	4.081	(0.951)	585784	3.28844	438.46
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	4.172	4.172	(0.974)	403202	3.46175	461.57
49	Benzoic Acid	122	4.055	4.092	(0.946)	13494	0.78642	104.86(QH)
50	1,2,4-Trichlorobenzene	180	4.236	4.241	(0.989)	431189	3.19426	425.90
51	Naphthalene	128	4.300	4.306	(1.004)	1514260	3.36104	448.14
52	4-Chloroaniline	127	4.322	4.322	(1.009)	479597	2.51979	335.97
56	Hexachlorobutadiene	225	4.375	4.375	(1.021)	217727	3.18835	425.11
210	Caprolactam	113	4.562	4.583	(1.065)	193794	4.16311	555.08(Q)
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	4.648	4.653	(1.085)	461154	3.82335	509.78
62	2-Methylnaphthalene	142	4.792	4.797	(1.118)	974181	3.91871	522.49
63	1-Methylnaphthalene	142	4.867	4.867	(1.136)	948493	3.36200	448.27
64	Hexachlorocyclopentadiene	237	4.899	4.904	(0.883)	259336	3.39519	452.69
66	2,4,6-Trichlorophenol	196	4.984	4.989	(0.898)	274083	3.12452	416.60
67	2,4,5-Trichlorophenol	196	5.011	5.016	(0.903)	324057	3.48489	464.65
211	1,1'-Biphenyl	154	5.123	5.123	(0.923)	1188934	3.19439	425.92
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	5.150	5.150	(0.928)	901838	3.13062	417.42
73	2-Nitroaniline	65	5.208	5.208	(0.938)	322166	3.83477	511.30
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	5.326	5.326	(0.960)	1156747	3.66795	489.06
78	2,6-Dinitrotoluene	165	5.374	5.379	(0.968)	279908	3.90389	520.52
79	Acenaphthylene	152	5.454	5.454	(0.983)	1570434	3.43455	457.94
80	1,2-Dinitrobenzene	168	5.422	5.422	(0.977)	144267	3.93942	525.26
81	3-Nitroaniline	138	5.502	5.508	(0.991)	263416	3.26479	435.30
82	Acenaphthene	153	5.577	5.577	(1.005)	964972	3.37006	449.34
83	2,4-Dinitrophenol	184	5.577	5.582	(1.005)	64834	1.71287	228.38(Q)
85	4-Nitrophenol	109	5.598	5.604	(1.009)	135429	3.53069	470.76
86	Dibenzofuran	168	5.700	5.700	(1.027)	1392247	3.44249	459.00
87	2,4-Dinitrotoluene	165	5.668	5.673	(1.021)	380890	4.02940	537.25
91	2,3,5,6-Tetrachlorophenol	232	5.748	5.748	(1.036)	183005	2.49066	332.09
93	Diethylphthalate	149	5.828	5.833	(1.050)	1143095	3.77345	503.13
94	Fluorene	166	5.951	5.951	(1.072)	1184003	3.60373	480.50
95	4-Chlorophenyl-phenylether	204	5.935	5.935	(1.069)	538191	3.55723	474.30
96	4-Nitroaniline	138	5.946	5.951	(1.071)	339677	4.05606	540.81
98	4,6-Dinitro-2-methylphenol	198	5.967	5.967	(0.899)	175135	3.06550	408.73
99	N-Nitrosodiphenylamine	169	6.015	6.020	(0.907)	881080	3.90340	520.45
100	1,2-Diphenylhydrazine	77	6.047	6.053	(0.911)	1245247	3.66880	489.17
106	4-Bromophenyl-phenylether	248	6.293	6.293	(0.948)	294567	3.64053	485.40
107	Hexachlorobenzene	284	6.346	6.352	(0.957)	280051	3.53283	471.04
212	Atrazine	200	6.384	6.389	(0.962)	338641	6.30510	840.68(R)

111 Pentachlorophenol	266	6.485	6.485 (0.977)	101668	2.22492	296.66
115 Phenanthrene	178	6.651	6.656 (1.002)	1688061	3.60740	480.99

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
116	Anthracene	178	6.688	6.694	(1.008)	1726529	3.72203	496.27
119	Carbazole	167	6.795	6.795	(1.024)	1691671	3.80358	507.14
120	Di-n-Butylphthalate	149	7.014	7.014	(1.057)	1991388	4.17029	556.04
123	Fluoranthene	202	7.522	7.522	(1.134)	1843011	3.96210	528.28
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.693	7.693	(0.897)	1871969	3.84501	512.67
131	Butylbenzylphthalate	149	8.115	8.120	(0.946)	824582	4.14077	552.10
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	8.531	8.542	(0.994)	405626	2.53573	338.10
136	Benzo(a)Anthracene	228	8.574	8.579	(0.999)	1779301	3.76443	501.92
137	Chrysene	228	8.601	8.611	(1.002)	1633886	3.59931	479.91
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.526	8.531	(0.994)	1196842	4.24891	566.52
140	Di-n-octylphthalate	149	9.044	9.050	(0.910)	1859072	4.19998	560.00
141	Benzo(b)fluoranthene	252	9.514	9.525	(0.958)	1583591	4.06898	542.53
142	Benzo(k)fluoranthene	252	9.546	9.557	(0.961)	1779707	3.96334	528.44
146	Benzo(a)pyrene	252	9.878	9.888	(0.994)	1280378	3.45940	461.25
149	Indeno(1,2,3-cd)pyrene	276	11.411	11.427	(1.148)	1603360	4.14839	553.12
150	Dibenz(a,h)anthracene	278	11.422	11.443	(1.149)	1347858	4.04724	539.63
151	Benzo(g,h,i)perylene	276	11.854	11.876	(1.193)	1318527	4.00341	533.79
$ 154	Nitrobenzene-d5	82	3.771	3.771	(0.880)	553263	3.31578	442.10
$ 155	2-Fluorobiphenyl	172	5.048	5.048	(0.910)	1056255	3.16071	421.43
$ 156	Terphenyl-d14	244	7.773	7.778	(0.906)	1232830	4.36117	581.49
$ 157	Phenol-d5	99	3.109	3.104	(0.915)	950567	4.82187	642.92
$ 158	2-Fluorophenol	112	2.537	2.527	(0.747)	729227	4.87583	650.11
$ 159	2,4,6-Tribromophenol	330	6.122	6.122	(1.103)	135070	4.32450	576.60
$ 186	2-Chlorophenol-d4	132	3.243	3.243	(0.954)	768859	5.15871	687.83
$ 187	1,2-Dichlorobenzene-d4	152	3.504	3.504	(1.031)	320462	3.04960	406.61
M 195	Cresols, total	100				1496906	9.51269	1268.4
101	Diphenylamine	169	6.015	6.020	(0.907)	881080	3.90340	520.45

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp10.i
Lab File ID: LWFDJ1AC.D
Lab Smp Id: lwfdj1ac
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Misc Info:

Calibration Date: 12-MAR-2010
Calibration Time: 09:19
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	337451	168726	674902	266990	-20.88
2 Naphthalene-d8	1316432	658216	2632864	990720	-24.74
3 Acenaphthene-d10	724165	362083	1448330	566694	-21.75
4 Phenanthrene-d10	1142407	571204	2284814	893852	-21.76
5 Chrysene-d12	1292171	646086	2584342	972996	-24.70
6 Perylene-d12	1026541	513271	2053082	755220	-26.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.40	2.90	3.90	3.40	0.00
2 Naphthalene-d8	4.29	3.79	4.79	4.28	-0.12
3 Acenaphthene-d10	5.56	5.06	6.06	5.55	-0.10
4 Phenanthrene-d10	6.64	6.14	7.14	6.64	0.00
5 Chrysene-d12	8.59	8.09	9.09	8.58	-0.12
6 Perylene-d12	9.95	9.45	10.45	9.94	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\LWFDJ1AC.D

Date : 12-MAR-2010 10:17

Client ID: INTRA-LAB CHECK

Instrument: a4hp10.i

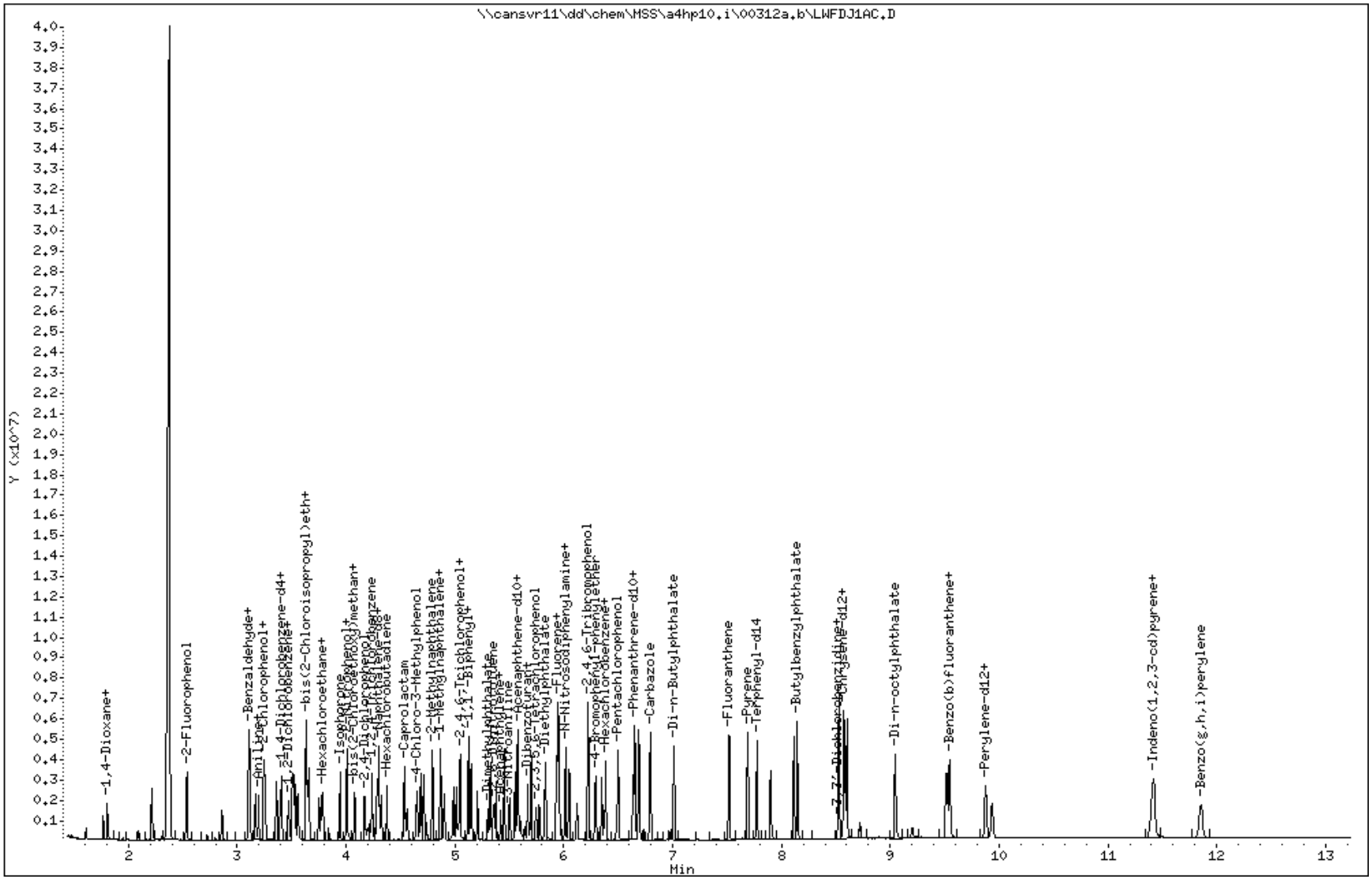
Sample Info: lwfdj1ac,00312a.b,8270C-625,1-827042d.sub

Volume Injected (uL): 0.5

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWFDJ1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0C090000-165

Prep Date.....: 03/09/10 **Final Wgt/Vol..:** 2 mL
Analysis Date..: 03/12/10 **Prep Batch #...:** 0068165
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	50	ug/kg	SW846 8270C
Acenaphthylene	ND	50	ug/kg	SW846 8270C
Anthracene	ND	50	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	50	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	50	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	50	ug/kg	SW846 8270C
Benzoic acid	ND	800	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	50	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	50	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	50	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	800	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWFDJ1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrophenol	ND	800	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	50	ug/kg	SW846 8270C
Fluorene	ND	50	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta-diene	ND	330	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	50	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	50	ug/kg	SW846 8270C
2-Nitroaniline	ND	800	ug/kg	SW846 8270C
3-Nitroaniline	ND	800	ug/kg	SW846 8270C
4-Nitroaniline	ND	800	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	800	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	330	ug/kg	SW846 8270C
Phenanthrene	ND	50	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	50	ug/kg	SW846 8270C
1,2,4-Trichloro-benzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	ND	50	ug/kg	SW846 8270C
Carbazole	ND	50	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	59	(45 - 105)
2-Fluorophenol	68	(35 - 105)
Phenol-d5	66	(40 - 100)
2,4,6-Tribromophenol	50	(35 - 125)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWFDJ1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene-d5	63	(35 - 100)		
Terphenyl-d14	85	(30 - 125)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\LWFDJ1AA.D
Lab Smp Id: lwfdj1aa Client Smp ID: INTRA-LAB BLANK
Inj Date : 12-MAR-2010 09:58
Operator : 001710 Inst ID: a4hp10.i
Smp Info : lwfdj1aa,00312a.b,8270C-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Meth Date : 12-Mar-2010 14:28 gruberj Quant Type: ISTD
Cal Date : 08-MAR-2010 16:10 Cal File: 1SL0308.D
Als bottle: 4 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.398	3.397	(1.000)	354318	2.00000		(Q)
* 2 Naphthalene-d8	136	4.284	4.290	(1.000)	1346100	2.00000		
* 3 Acenaphthene-d10	164	5.550	5.556	(1.000)	768520	2.00000		
* 4 Phenanthrene-d10	188	6.635	6.635	(1.000)	1211968	2.00000		
* 5 Chrysene-d12	240	8.585	8.590	(1.000)	1310604	2.00000		
* 6 Perylene-d12	264	9.942	9.947	(1.000)	1062082	2.00000		
198 1,4-Dioxane	88	Compound Not Detected.						
9 Pyridine	79	Compound Not Detected.						
10 N-Nitrosodimethylamine	74	Compound Not Detected.						
12 3-Chloropropionitrile	54	Compound Not Detected.						
209 Benzaldehyde	77	Compound Not Detected.						
21 Aniline	93	Compound Not Detected.						
22 Phenol	94	Compound Not Detected.						
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	Compound Not Detected.						
26 1,3-Dichlorobenzene	146	Compound Not Detected.						
27 1,4-Dichlorobenzene	146	Compound Not Detected.						
28 1,2-Dichlorobenzene	146	Compound Not Detected.						

29	Benzyl Alcohol	108	Compound Not Detected.
30	2-Methylphenol	108	Compound Not Detected.

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(ug/kg)
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	4.017	4.092	(0.938)	13682	0.75042	100.06(H)
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	Compound Not Detected.					
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	Compound Not Detected.					
63	1-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					
212	Atrazine	200	Compound Not Detected.					

111	Pentachlorophenol	266	Compound Not Detected.
115	Phenanthrene	178	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
116	Anthracene	178	Compound Not Detected.					
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
123	Fluoranthene	202	Compound Not Detected.					
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	Compound Not Detected.					
131	Butylbenzylphthalate	149	Compound Not Detected.					
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	Compound Not Detected.					
137	Chrysene	228	Compound Not Detected.					
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.526	8.531	(0.993)	49740	0.13110	17.479
140	Di-n-octylphthalate	149	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	Compound Not Detected.					
142	Benzo(k)fluoranthene	252	Compound Not Detected.					
146	Benzo(a)pyrene	252	Compound Not Detected.					
149	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150	Dibenz(a,h)anthracene	278	Compound Not Detected.					
151	Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.771	3.771	(0.880)	708833	3.12659	416.88
$ 155	2-Fluorobiphenyl	172	5.048	5.048	(0.910)	1347853	2.97407	396.54
$ 156	Terphenyl-d14	244	7.778	7.778	(0.906)	1609880	4.22798	563.73
$ 157	Phenol-d5	99	3.109	3.104	(0.915)	1287567	4.92158	656.21
$ 158	2-Fluorophenol	112	2.537	2.527	(0.747)	1008303	5.08018	677.36
$ 159	2,4,6-Tribromophenol	330	6.122	6.122	(1.103)	159327	3.76149	501.53
$ 186	2-Chlorophenol-d4	132	3.243	3.243	(0.954)	1008709	5.09991	679.99
$ 187	1,2-Dichlorobenzene-d4	152	3.504	3.504	(1.031)	398331	2.85635	380.85
M 195	Cresols, total	100	Compound Not Detected.					
101	Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

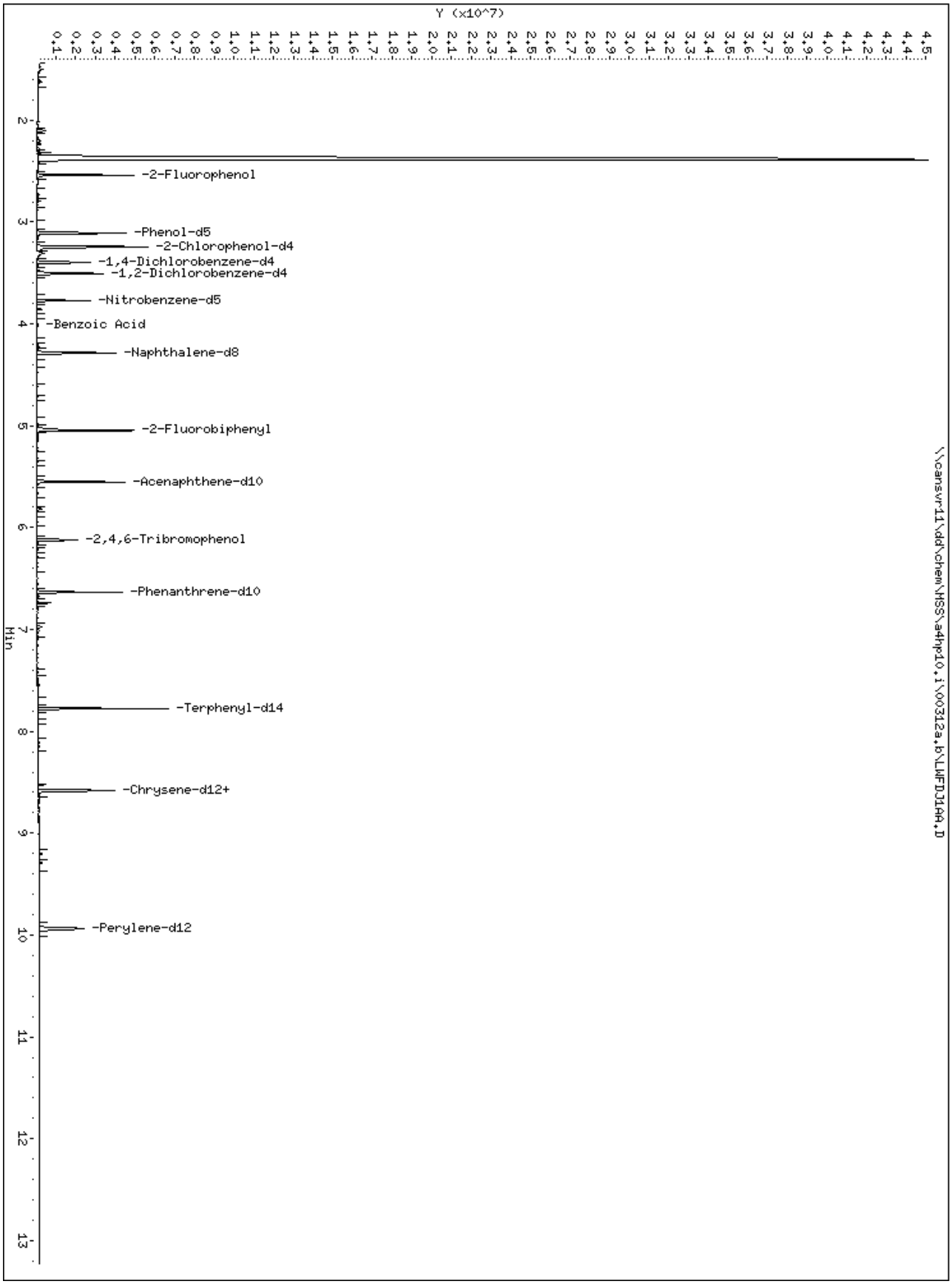
Instrument ID: a4hp10.i
Lab File ID: LWFDJ1AA.D
Lab Smp Id: lwfdj1aa
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\8270C-625.m
Misc Info:

Calibration Date: 12-MAR-2010
Calibration Time: 09:19
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: SOIL

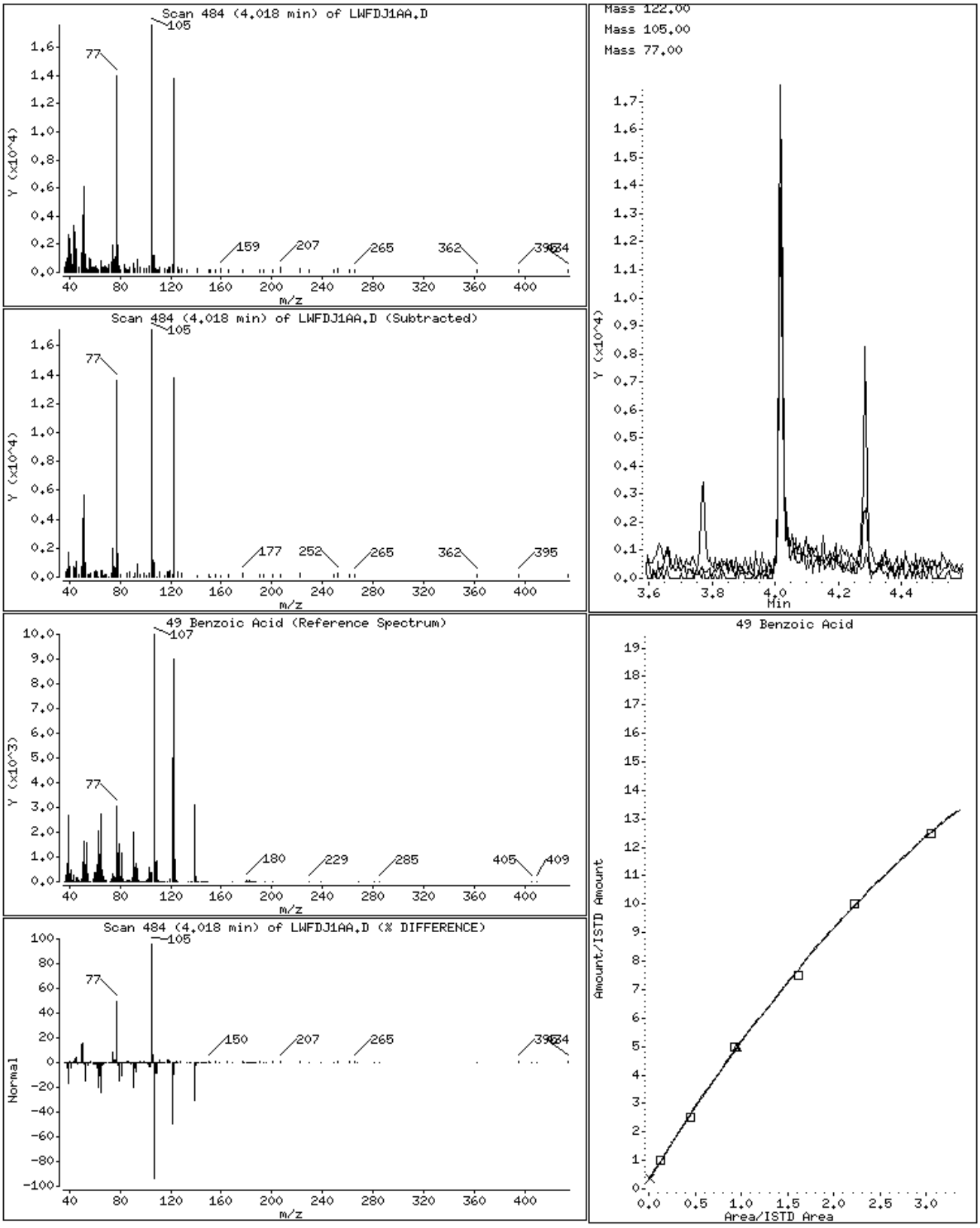
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	337451	168726	674902	354318	5.00
2 Naphthalene-d8	1316432	658216	2632864	1346100	2.25
3 Acenaphthene-d10	724165	362083	1448330	768520	6.12
4 Phenanthrene-d10	1142407	571204	2284814	1211968	6.09
5 Chrysene-d12	1292171	646086	2584342	1310604	1.43
6 Perylene-d12	1026541	513271	2053082	1062082	3.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.40	2.90	3.90	3.40	0.00
2 Naphthalene-d8	4.29	3.79	4.79	4.28	-0.12
3 Acenaphthene-d10	5.56	5.06	6.06	5.55	-0.09
4 Phenanthrene-d10	6.64	6.14	7.14	6.64	0.00
5 Chrysene-d12	8.59	8.09	9.09	8.59	-0.06
6 Perylene-d12	9.95	9.45	10.45	9.94	-0.05

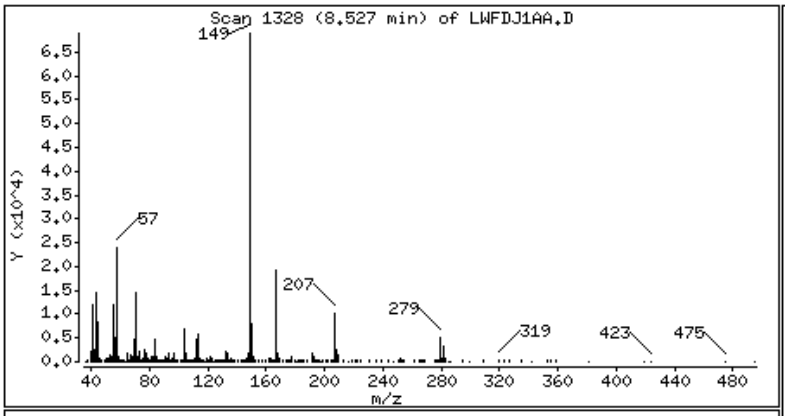
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

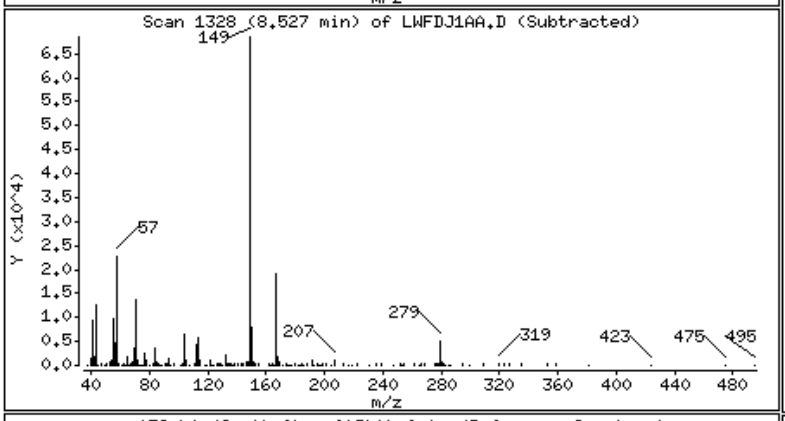

Y (x10^7)
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Benzoic Acid
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
Min
\\cansvr11\dd\chem\MSS\a4hp10.i\00312a.b\LWFD31AA.D

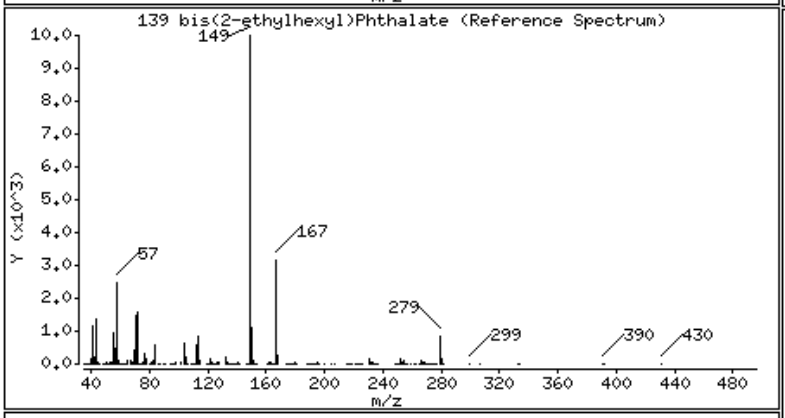
49 Benzoic Acid

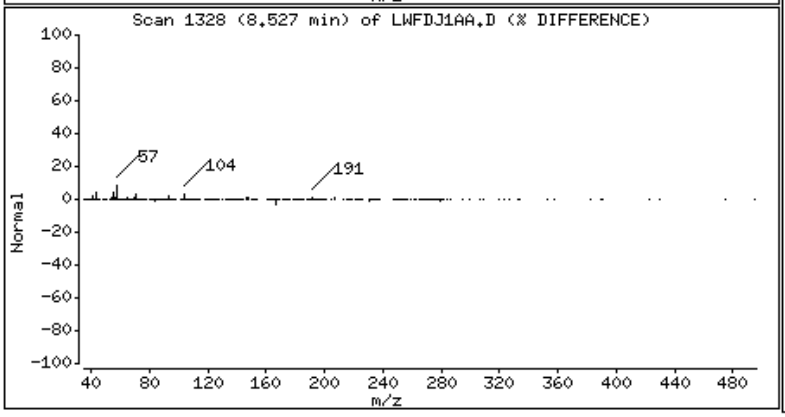


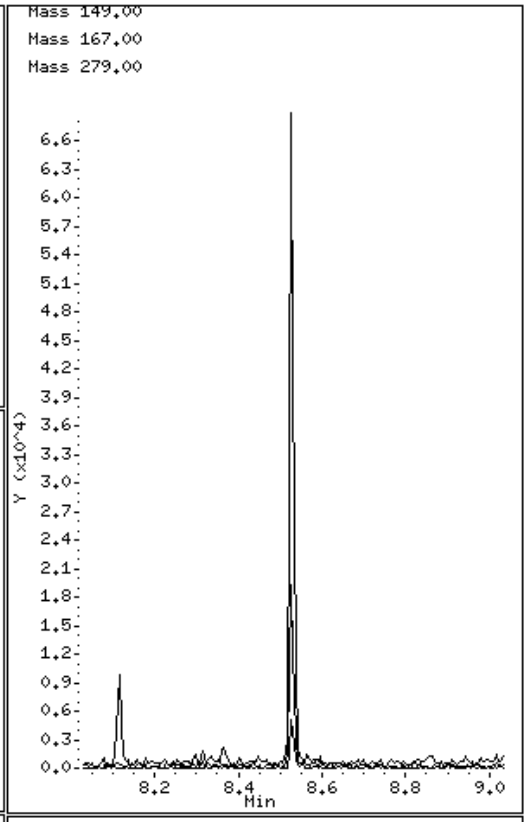
139 bis(2-ethylhexyl)Phthalate

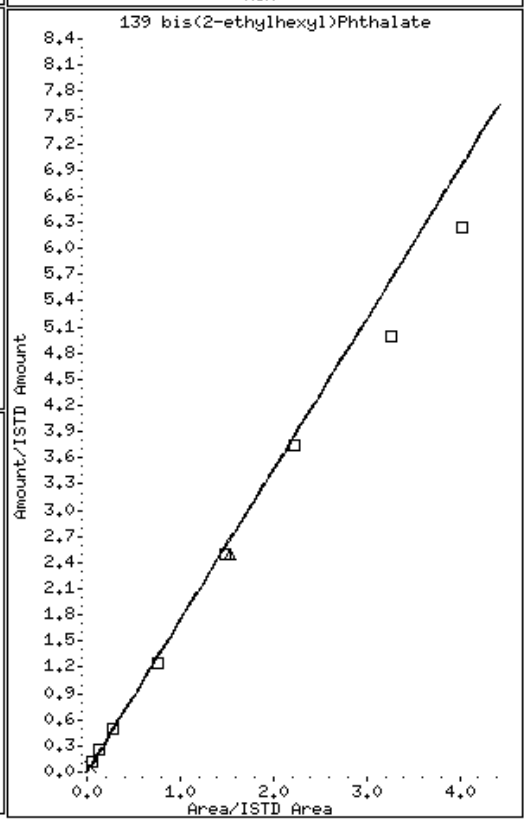












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MISCELLANEOUS DATA

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4hp10.i

Method 8270C 625 IS#: SV3548 Date: 08-MAR-2010 14:51

MeCL2 Lot#: H50500 Operator: 001710

GC Program #: 2

Data File	Client ID-STD #	Sample ID	DF	Prep	Init	Unit	Fin mL	Comments	QUAL
1DF0308.D	SV3549							DFTPP	OK
1DF0308T.D	SV3549							DFTPP	OK
1SMM0308.D	SV3584							CALIB_5	OK
1SM0308.D	SV3583							CALIB_4	OK
1SML0308.D	SV3582							CALIB_3	OK
1SL0308.D	SV3581							CALIB_2	OK
1SLL0308.D	SV3580							CALIB_1	OK
1SHHH0308.D	SV3588							CALIB_9	OK
1SHH0308.D	SV3587							CALIB_8	OK
1SH0308.D	SV3586							CALIB_7	OK
1SMH0308.D	SV3585							CALIB_6	OK
ICVTCL.D	SV3589							CCALIB_6	OK

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4hp10.i

Method 8270C 625 | IS#: SV3548 | Date: 12-MAR-2010 09:00

MeCL2 Lot#: H50J00 | Operator: 001710

GC Program #: 2 | Target Batch: 00312a.b

6kmw 3/12/10

Data File	Client ID-STD #	Sample ID	DF	Prep	Init	Unit	Fin mL	Comments	QUAL
1DF0312.D	SV3549							DFTPP	ok
1DF0312T.D	SV3549							DFTPP	ok
1SMH0312.D	SV3585							CCALIB_6	ok
QCMRL.D	SV3584							mrl	ok
LWFDJ1AA.D	INTRA-LAB BLANK		St	03/09	30	g	2	METHOD BLANK	ok
LWFDJ1AC.D	INTRA-LAB CHECK			03/09	30	g	2	METHOD SPIKE	ok
LWADP2AD.D	LL5SB-053-5155-SO	A0C040505		03/09	30	g	2	SAMPLE	ok
LWCWJ1AD.D	LL6SB-069-5222-SO	A0C050520		03/09	30	g	2	SAMPLE	ok
QCMRLCL.D	SV3584							mrl	ok
MDLL1.D	SV3580							mrl	ok
MDLL2.D	SV3581							mrl	ok
MDLL3.D	SV3582							mrl	ok
LWH3G1AA.D	INTRA-LAB BLANK		St	03/11	30	g	2	METHOD BLANK	ok
LWH3G1AC.D	INTRA-LAB CHECK			03/11	30	g	2	METHOD SPIKE	ok
LWH201AC.D	EAST SOIL-1	A0C110412		03/11	30	g	2	SAMPLE	ok
LWH201AE.D	EAST SOIL-1	A0C110412		03/11	30	g	2	MS	ok
LWH201AF.D	EAST SOIL-1	A0C110412		03/11	30	g	2	MSD	ok

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/30/2010
Time: 13:20:52

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
=	=	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
			_	_	computer batch: correct & Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 403847 Jeff Shanklin

Concentrationist: 000123 Leslie Howell

Reviewer/Date: HOWELLL / 3/10/10

QC BATCH: 0068165

PREP DATE: 3/09/10
COMP DATE: 3/10/10

Base/Neutrals and Acids (8270C)
SOXHLET (NONE,Na2SO4)
SW846 3540C

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-AD**	D	11	QL	SOLID	30.13g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/16/10	3/24/10	A0C030547-007 **LV9DW-2-AG**	D	11	QL	SOLID	30.13g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/17/10	3/11/10	A0C040505-002 **LWADP-2-AD**	D	11	QL	SOLID	30.01g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/16/10	0/0/0	A0C090000-165 **LWFDJ-1-AA B**		11	QL	SOLID	30.00g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/16/10	0/0/0	A0C090000-165 **LWFDJ-1-AC C**		11	QL	SOLID	30.00g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML #A070638/72456 .2ML BNA SURR #69831
COMMENTS:															

542

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0068165

PREP DATE: 3/09/10
COMP DATE: 3/10/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
S/S EM,JS															
DCM/ACE J03E07 NA2SO4 H35594															
B025 ASSOC.QC.W/0068166															

NUMBER OF WORK ORDERS IN BATCH: 5

Lot/SDG Number: **A0C050520**

Sample Control Chain of Custody - TAL North Canton
GC/MS Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0C050520-002	LWCWJ1AD	Base/Neutrals and Acids (8270C)	03/09/10	Jeff Shanklin	03/10/10	Leslie Howell	03/12/10	John Gruber

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PESTICIDE DATA

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QC SUMMARY DATA

SW846 8081A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C050520

Extraction: XXA11QJWA

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	LL6SB-069-5222-SO	81 D	94 D	00
02	METHOD BLK. LWET71AA	80	92	00
03	LCS LWET71AC	92	95	00
04	LL6SB-069-5222-SO D	85 D	94 D	00
05	LL6SB-069-5222-SO S	84 D	92 D	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(70-125)
SRG02	= Decachlorobiphenyl	(55-130)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C090000 WO #: LWET71AC
BATCH: 0068032

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	33	32	95	60- 125	
Heptachlor	33	32	95	50- 140	
Aldrin	33	28	85	45- 140	
Dieldrin	33	32	97	65- 125	
Endrin	33	33	100	60- 135	
4,4'-DDT	33	34	101	45- 140	
alpha-BHC	33	31	93	60- 125	
beta-BHC	33	30	89	60- 125	
delta-BHC	33	32	95	55- 130	
Heptachlor epoxide	33	31	94	65- 130	
Endosulfan I	33	26	77	15- 135	
4,4'-DDE	33	31	93	70- 125	
Endosulfan II	33	28	85	35- 140	
4,4'-DDD	33	32	96	30- 135	
Endosulfan sulfate	33	32	96	60- 135	
Methoxychlor	33	33	99	55- 145	
Endrin ketone	33	30	91	65- 135	
Endrin aldehyde	33	26	77	35- 145	
alpha-Chlordane	33	31	94	65- 120	
gamma-Chlordane	33	32	97	65- 125	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LL6SB-069-5222-SO

Lot #: A0C050520 WO #: LWCWJ1CE
BATCH: 0068032

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
gamma-BHC (Lindane)	41	ND	34	84	60- 125	DIL
Heptachlor	41	ND	35	85	50- 140	DIL
Aldrin	41	ND	34	83	45- 140	DIL
Dieldrin	41	ND	34	84	65- 125	DIL
Endrin	41	ND	33	81	60- 135	DIL
4,4'-DDT	41	ND	30	74	45- 140	DIL
alpha-BHC	41	ND	34	83	60- 125	DIL
beta-BHC	41	ND	35	85	60- 125	DIL
delta-BHC	41	ND	33	81	55- 130	DIL
Heptachlor epoxide	41	ND	35	86	65- 130	DIL
Endosulfan I	41	ND	29	72	15- 135	DIL
4,4'-DDE	41	ND	34	83	70- 125	DIL
Endosulfan II	41	ND	30	74	35- 140	DIL
4,4'-DDD	41	ND	34	83	30- 135	DIL
Endosulfan sulfate	41	ND	34	84	60- 135	DIL
Methoxychlor	41	ND	34	84	55- 145	DIL
Endrin ketone	41	ND	33	81	65- 135	DIL
Endrin aldehyde	41	ND	28	69	35- 145	DIL
alpha-Chlordane	41	ND	35	85	65- 120	DIL
gamma-Chlordane	41	ND	34	84	65- 125	DIL

NOTES(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LL6SB-069-5222-SO

Lot #: A0C050520 WO #: LWCWJ1CF
BATCH: 0068032

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	41	34	84	0.17	36	60- 125	DIL
Heptachlor	41	35	85	0.49	44	50- 140	DIL
Aldrin	41	34	83	0.43	40	45- 140	DIL
Dieldrin	41	34	83	1.1	33	65- 125	DIL
Endrin	41	33	81	0.29	38	60- 135	DIL
4,4'-DDT	41	30	73	0.53	42	45- 140	DIL
alpha-BHC	41	34	83	1.0	40	60- 125	DIL
beta-BHC	41	35	85	0.38	43	60- 125	DIL
delta-BHC	41	33	81	0.18	34	55- 130	DIL
Heptachlor epoxide	41	35	85	1.8	43	65- 130	DIL
Endosulfan I	41	30	73	0.70	41	15- 135	DIL
4,4'-DDE	41	34	83	0.65	39	70- 125	DIL
Endosulfan II	41	30	75	1.3	27	35- 140	DIL
4,4'-DDD	41	34	83	0.25	35	30- 135	DIL
Endosulfan sulfate	41	34	84	0.21	34	60- 135	DIL
Methoxychlor	41	34	83	0.030	41	55- 145	DIL
Endrin ketone	41	33	81	0.81	32	65- 135	DIL
Endrin aldehyde	41	28	69	0.080	29	35- 145	DIL
alpha-Chlordane	41	34	84	0.88	65	65- 120	DIL
gamma-Chlordane	41	34	83	1.9	36	65- 125	DIL

NOTES(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LWET71AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: 031F3101.

Lot Number: A0C050520

Matrix: SOLID

Extraction Method: 3540C

Date Extracted: 03/09/10

Date Analyzed(1): 03/17/10

Date Analyzed(2): N/A

Time Analyzed(1): 00:48

Time Analyzed(2): N/A

Instrument ID(1): P9

Instrument ID(2): N/A

GC Column(1): RTXPESTCLP ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	LL6SB-069-5222-SO	LWCWJ1AE	03/16/10	N/A
02	LL6SB-069-5222-SO	LWCWJ1CE S	03/16/10	N/A
03	LL6SB-069-5222-SO	LWCWJ1CF D	03/16/10	N/A
04	CHECK SAMPLE	LWET71AC C	03/17/10	N/A
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

GC Semivolatiles

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ1AE **Matrix.....:** SO
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/16/10
Prep Batch #...: 0068032
Dilution Factor: 5 **Initial Wgt/Vol:** 30.14 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 18 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	24	ug/kg	7.3
alpha-BHC	ND	15	ug/kg	4.5
beta-BHC	ND	21	ug/kg	6.7
delta-BHC	ND	24	ug/kg	7.3
gamma-BHC (Lindane)	ND	15	ug/kg	4.5
alpha-Chlordane	ND	18	ug/kg	5.8
gamma-Chlordane	ND	10	ug/kg	2.6
4,4'-DDD	ND	12	ug/kg	3.8
4,4'-DDE	ND	10	ug/kg	2.4
4,4'-DDT	ND	12	ug/kg	3.9
Dieldrin	ND	10	ug/kg	2.9
Endosulfan I	ND	10	ug/kg	3.2
Endosulfan II	ND	15	ug/kg	5.0
Endosulfan sulfate	ND	18	ug/kg	5.3
Endrin	ND	10	ug/kg	3.1
Endrin aldehyde	ND	18	ug/kg	6.1
Endrin ketone	ND	12	ug/kg	3.9
Heptachlor	ND	21	ug/kg	6.7
Heptachlor epoxide	ND	15	ug/kg	4.9
Methoxychlor	ND	31	ug/kg	9.2
Toxaphene	ND	410	ug/kg	120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81 DIL	(70 - 125)
Decachlorobiphenyl	94 DIL	(55 - 130)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Elevated reporting limits. The reporting limits are elevated due to matrix interference.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\027F2701.D
Lab Smp Id: LWCWJ1AE Client Smp ID: LL6SB-069-5222-SO
Inj Date : 16-MAR-2010 23:01
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LWCWJ1AE,5
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 27
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.140	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.793	3.794	-0.001	273521	0.00325	0.1625		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.271	4.262	0.009	16573				
3 Diallate						CAS #: 2303-16-4	
4.385	4.369	0.016	64904			0.00- 20.00	100.00
4.554	4.544	0.010	29288			0.00- 20.00	45.13
4 alpha-BHC						CAS #: 319-84-6	

Peaks not detected for Quant. or Qual. signal(s).

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

```
--------------------------------------------------------------------------------
    6 beta-BHC                                    CAS #: 319-85-7
5.062    5.066   -0.004            6741  2e-004   0.2766
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
5.315	5.314	0.001	14464	9e-005	0.1448		
		Sum of Peak Concentrations =			0.1448		
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
Peaks not detected for Quant. or Qual. signal(s).							
10 Aldrin					CAS #: 309-00-2		
6.155	6.164	-0.009	121687	8e-004	1.286		
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.220	8.214	0.006	7530	1e-004	0.2434		
15 Endosulfan I					CAS #: 959-98-8		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
Peaks not detected for Quant. or Qual. signal(s).							
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							
18 Endrin					CAS #: 72-20-8		

Peaks not detected for Quant. or Qual. signal(s).

---

19 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

20 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

```
13.232  13.233   -0.001          222421 0.00374   0.1872                      (M)
-------------------------------------------------------------------------------
```

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\027F2701.D

Date : 16-MAR-2010 23:01

Client ID: LL6SB-069-5222-SO

Instrument: a2hp9.i

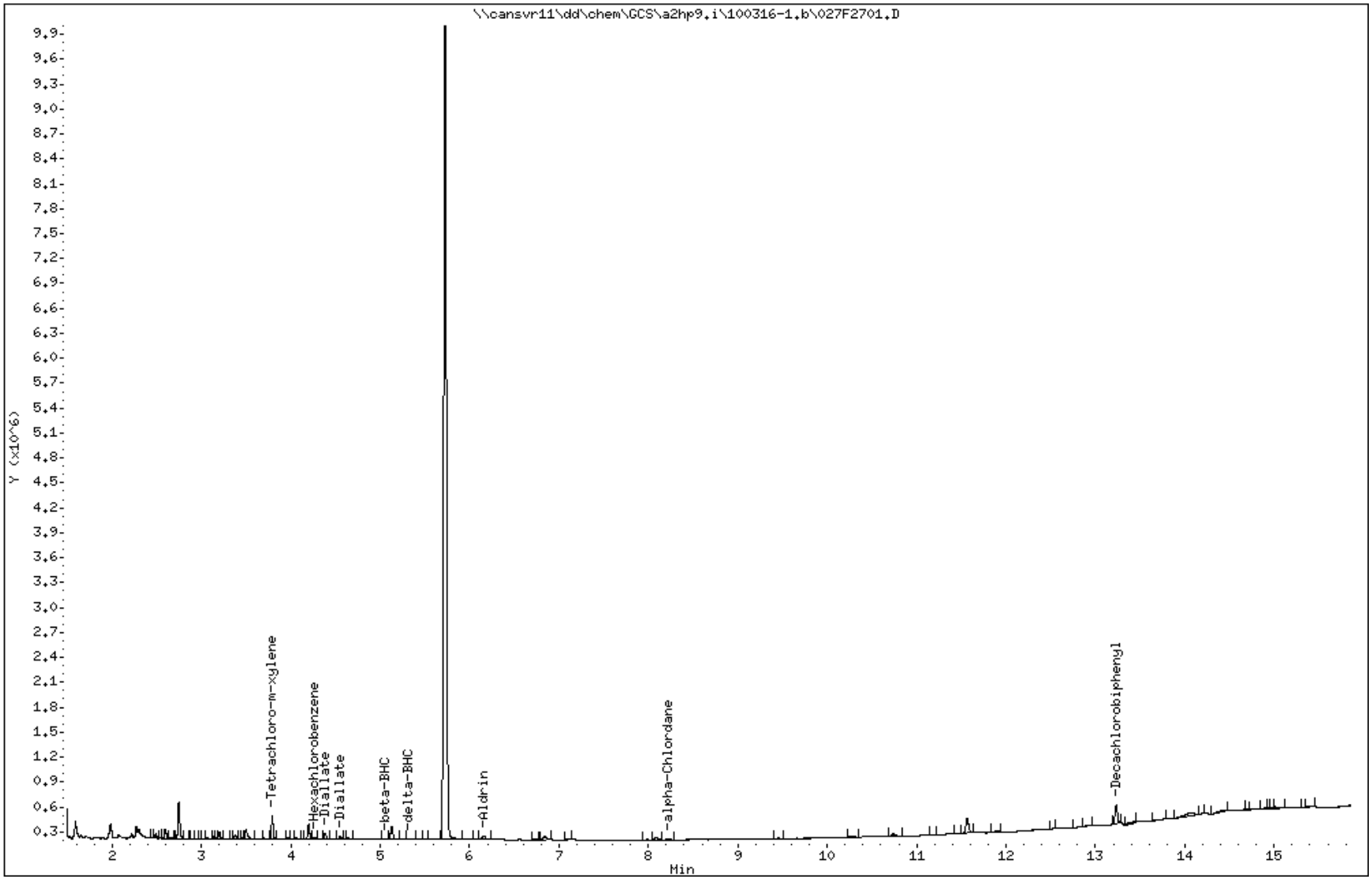
Sample Info: LWCWJ1AE,5

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

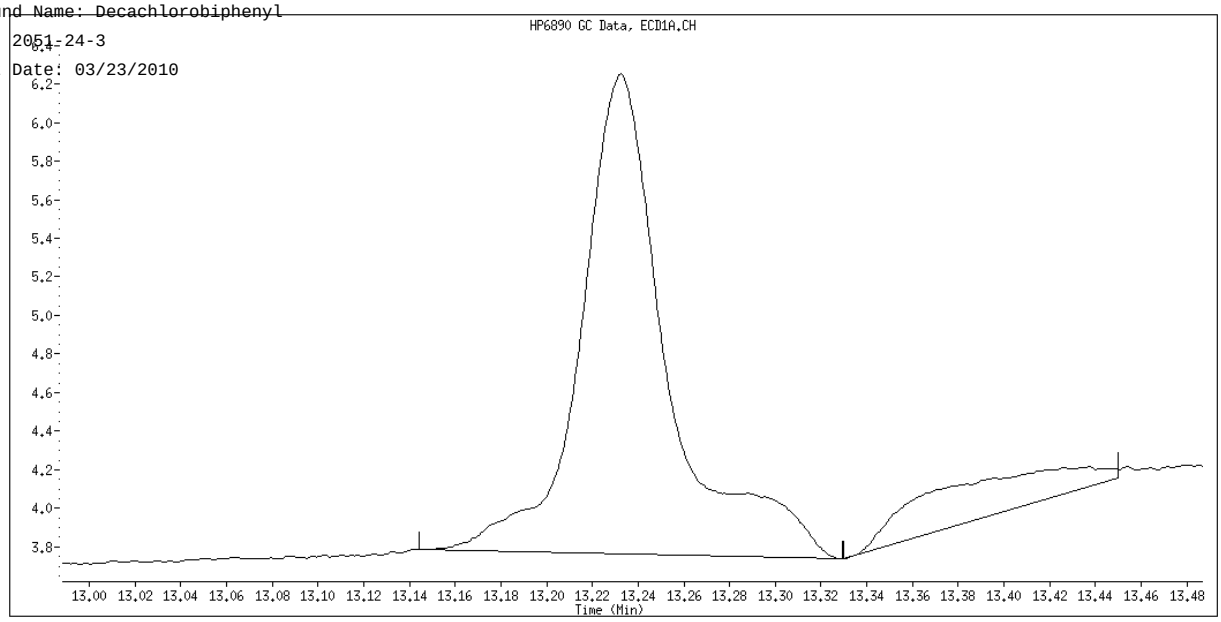


COMPOUNDS and EXP. RT REPORT

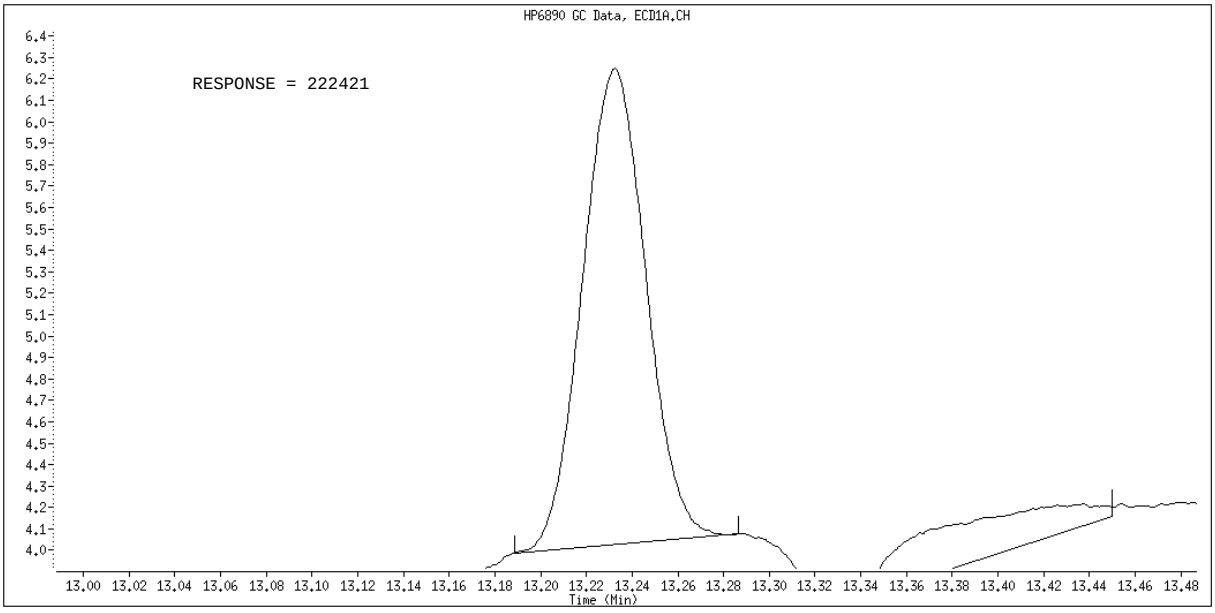
Operator: 093905 Date Acquired: 16-MAR-2010 23:01
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/027F2701.D
Lab Sample ID: LWCWJ1AE
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 5

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.793	362475	0.003	0.162 ug/Kg
2) Hexachlorobenzene	4.272	42897	0.000	0.000 ug/Kg
3) Diallate	4.385	110189	0.000	0.000 ug/Kg
4) alpha-BHC	NOT DETECTED	Expected RT = 4.496		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 4.919		
6) beta-BHC	5.063	15599	0.000	0.277 ug/Kg
7) delta-BHC	5.316	14464	0.000	0.145 ug/Kg
9) Tech Chlordane	NOT DETECTED	Expected RT = 5.371		
8) Heptachlor	NOT DETECTED	Expected RT = 5.638		
10) Aldrin	6.155	121687	0.001	1.286 ug/Kg
11) Isodrin	NOT DETECTED	Expected RT = 6.872		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 7.602		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 7.902		
14) alpha-Chlordane	8.221	30022	0.000	0.243 ug/Kg
15) Endosulfan I	NOT DETECTED	Expected RT = 8.469		
16) 4,4'-DDE	NOT DETECTED	Expected RT = 8.541		
17) Dieldrin	NOT DETECTED	Expected RT = 8.982		
18) Endrin	NOT DETECTED	Expected RT = 9.407		
19) Kepone	NOT DETECTED	Expected RT = 9.500		
20) 4,4'-DDD	NOT DETECTED	Expected RT = 9.722		
22) Endosulfan II	NOT DETECTED	Expected RT = 9.831		
21) Chlorobenzilate	NOT DETECTED	Expected RT = 9.844		
24) Toxaphene	NOT DETECTED	Expected RT = 9.951		
23) 4,4'-DDT	NOT DETECTED	Expected RT = 10.210		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 10.584		
26) Mirex	NOT DETECTED	Expected RT = 10.813		
27) Methoxychlor	NOT DETECTED	Expected RT = 11.108		
28) Endosulfan sulfate	NOT DETECTED	Expected RT = 11.285		
29) Endrin ketone	NOT DETECTED	Expected RT = 11.679		
30) Decachlorobiphenyl	13.233	427793	0.004	0.187 ug/Kg

Data File Name: 027F2701.D
Inj. Date and Time: 16-MAR-2010 23:01
Instrument ID: a2hp9.i
Client ID: LL6SB-069-5222-SO
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/23/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\027F2701.D
Lab Smp Id: LWCWJ1AE Client Smp ID: LL6SB-069-5222-SO
Inj Date : 16-MAR-2010 23:01
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LWCWJ1AE,5
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 27
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.140	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.365	4.365	0.000	165133	0.00338	0.1688		

2 Diallate CAS #: 2303-16-4

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene CAS #: 118-74-1

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 beta-BHC CAS #: 319-85-7

6.159	6.142	0.017	38824	0.00212	3.513		

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

9.058	9.084	-0.026	11392	0.00014	0.2330		

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

Peaks not detected for Quant. or Qual. signal(s).

---

16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

19 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Operator disabled compound identification.

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Mirex CAS #: 2385-85-5

Operator disabled compound identification.

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

```
--------------------------------------------------------------------------------
   29 Endrin ketone                              CAS #: 53494-70-5
12.868  12.888   -0.020           85543 0.00123    2.038                       (M)
--------------------------------------------------------------------------------
$  30 Decachlorobiphenyl                         CAS #: 2051-24-3
14.640  14.640    0.000          294357 0.00459   0.2295
--------------------------------------------------------------------------------
```

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\027F2701.D

Date : 16-MAR-2010 23:01

Client ID: LL6SB-069-5222-SO

Instrument: a2hp9.i

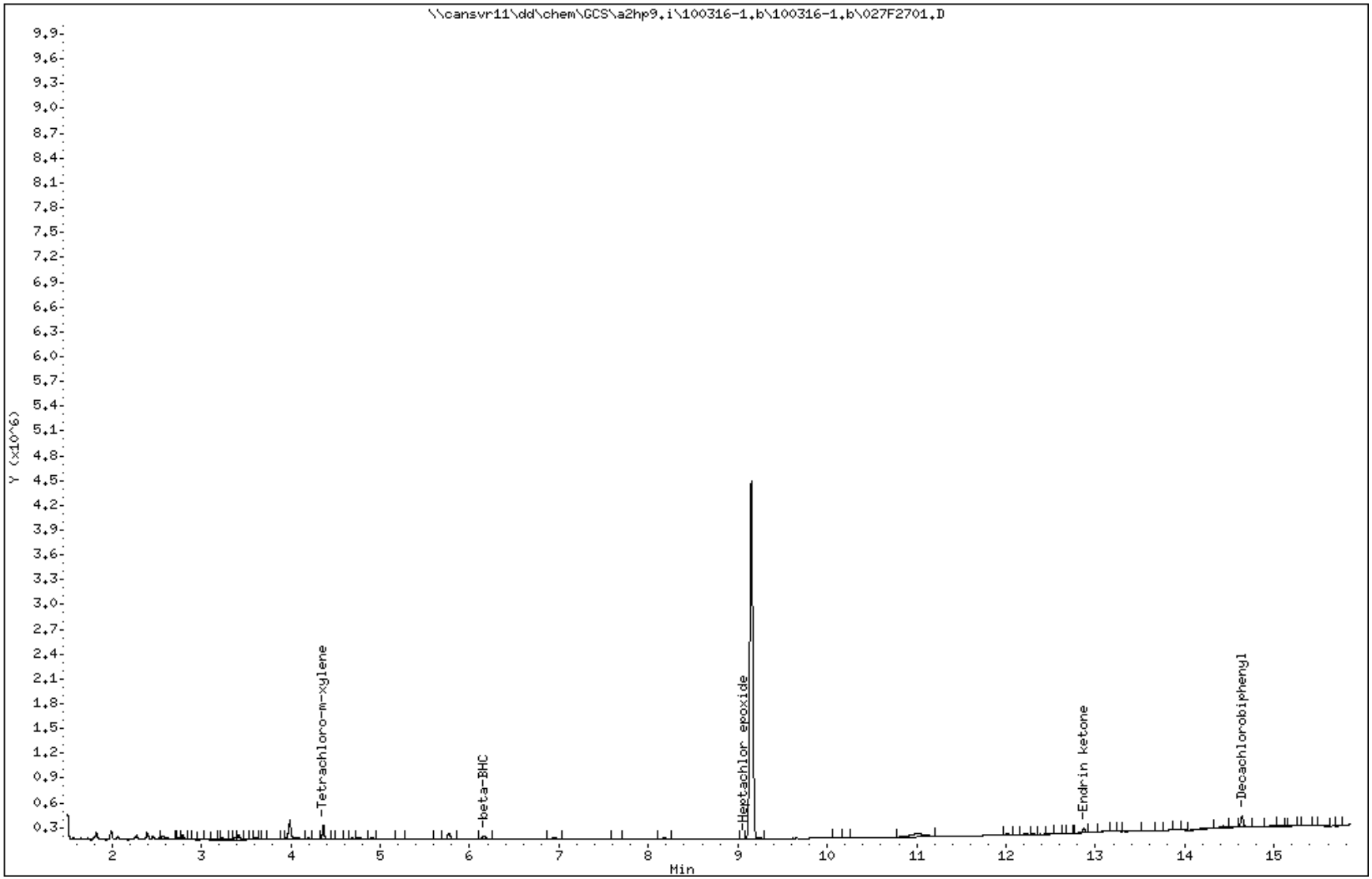
Sample Info: LWCWJ1AE,5

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

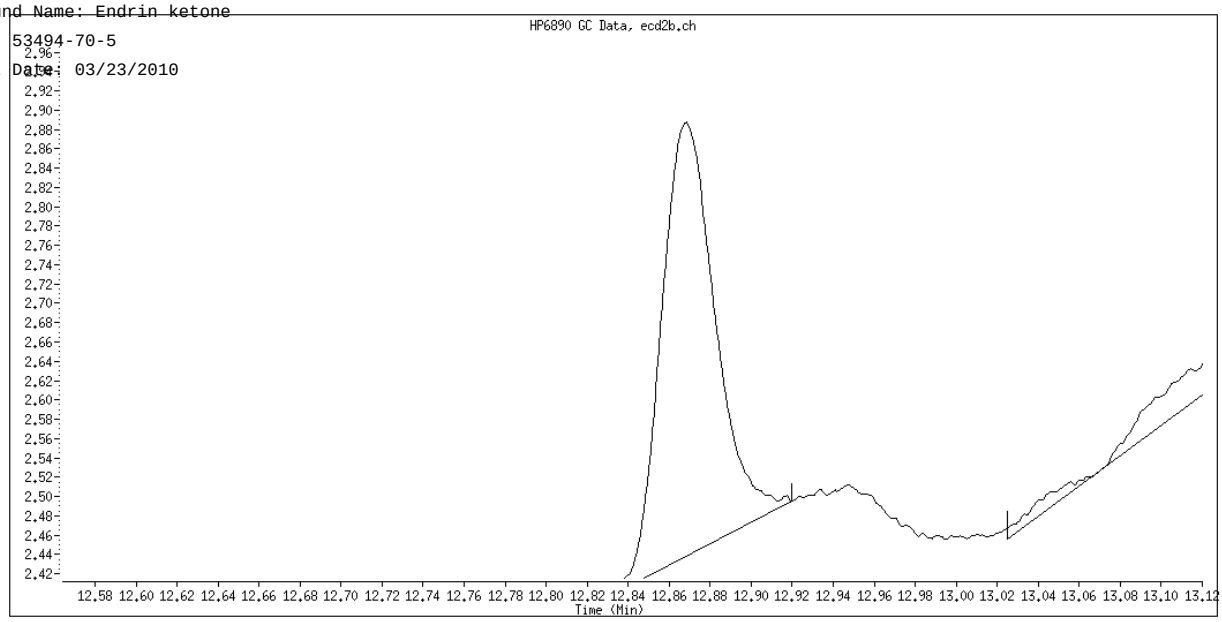


COMPOUNDS and EXP. RT REPORT

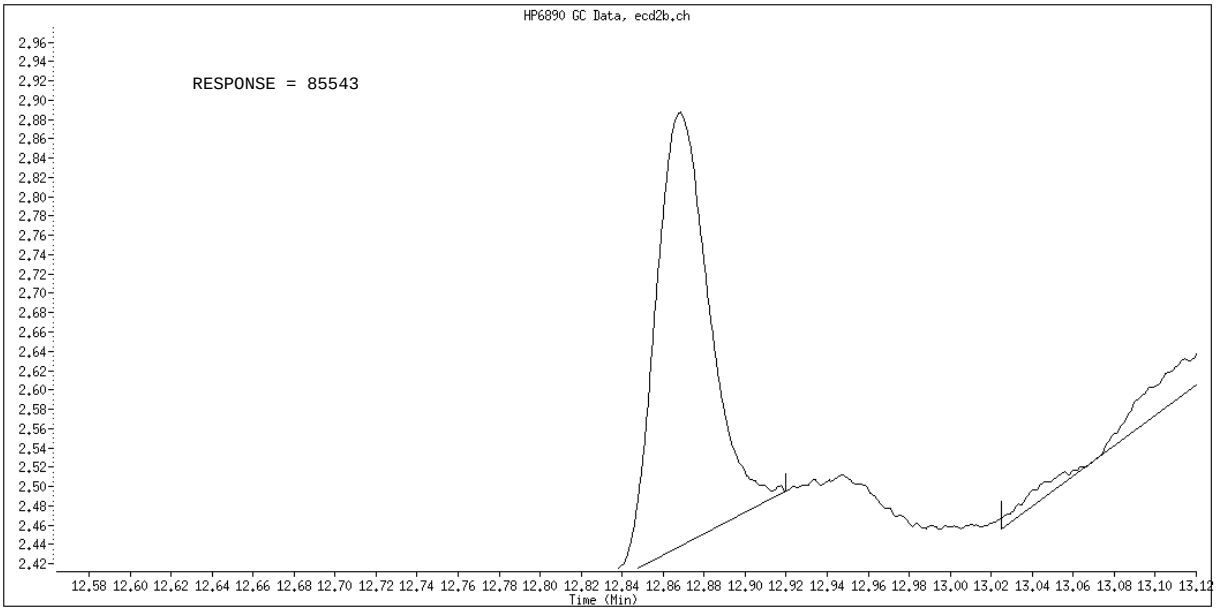
Operator: 093905 Date Acquired: 16-MAR-2010 23:01
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/100316-1.b/027F2701.D
Lab Sample ID: LWCWJ1AE
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 5

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.365	234365	0.003	0.169 ug/Kg
2) Diallate	NOT DETECTED	Expected RT = 5.042		
3) Hexachlorobenzene	NOT DETECTED	Expected RT = 5.105		
4) alpha-BHC	NOT DETECTED	Expected RT = 5.282		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 5.937		
6) beta-BHC	6.159	111103	0.002	3.513 ug/Kg
9) Tech Chlordane	NOT DETECTED	Expected RT = 6.391		
7) delta-BHC	NOT DETECTED	Expected RT = 6.797		
8) Heptachlor	NOT DETECTED	Expected RT = 6.913		
10) Aldrin	NOT DETECTED	Expected RT = 7.737		
11) Isodrin	NOT DETECTED	Expected RT = 8.771		
12) Heptachlor epoxide	9.058	11392	0.000	0.233 ug/Kg
13) gamma-Chlordane	NOT DETECTED	Expected RT = 9.472		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 9.757		
15) Endosulfan I	NOT DETECTED	Expected RT = 9.822		
16) 4,4'-DDE	NOT DETECTED	Expected RT = 10.164		
17) Dieldrin	NOT DETECTED	Expected RT = 10.320		
18) Endrin	NOT DETECTED	Expected RT = 10.820		
19) Chlorobenzilate	NOT DETECTED	Expected RT = 11.042		
20) Kepone	NOT DETECTED	Expected RT = 11.090		
21) 4,4'-DDD	NOT DETECTED	Expected RT = 11.138		
22) Endosulfan II	NOT DETECTED	Expected RT = 11.182		
23) Toxaphene	NOT DETECTED	Expected RT = 11.329		
24) 4,4'-DDT	NOT DETECTED	Expected RT = 11.621		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 11.727		
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.151		
27) Methoxychlor	NOT DETECTED	Expected RT = 12.670		
28) Mirex	NOT DETECTED	Expected RT = 12.864		
29) Endrin ketone	12.868	85543	0.001	2.038 ug/Kg
30) Decachlorobiphenyl	14.640	294357	0.005	0.230 ug/Kg

Data File Name: 027F2701.D
Inj. Date and Time: 16-MAR-2010 23:01
Instrument ID: a2hp9.i
Client ID: LL6SB-069-5222-SO
Compound Name: Endrin ketone
CAS #: 53494-70-5
Report Date: 03/23/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 16-Mar-2010 11:21

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Start Cal Date: 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
15-MAR-2010 13:03	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\013F1301.D
15-MAR-2010 09:30	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\004F0401.D
Cal Level: 2 , Cal Amount: 0.01000		
15-MAR-2010 13:28	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\014F1401.D
15-MAR-2010 09:54	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\005F0501.D
Cal Level: 3 , Cal Amount: 0.02500		
15-MAR-2010 13:52	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\015F1501.D
15-MAR-2010 10:17	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\006F0601.D
Cal Level: 4 , Cal Amount: 0.05000		
15-MAR-2010 14:16	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D
15-MAR-2010 10:41	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\007F0701.D
Cal Level: 5 , Cal Amount: 0.10000		
15-MAR-2010 14:41	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\017F1701.D
15-MAR-2010 11:05	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\008F0801.D
Cal Level: 6 , Cal Amount: 0.20000		
15-MAR-2010 11:29	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\009F0901.D

Report Date: 16-Mar-2010 11:22

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Start Cal Date: 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
15-MAR-2010 13:03	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D
15-MAR-2010 09:30	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\004F0401.D
Cal Level: 2 , Cal Amount: 0.01000		
15-MAR-2010 13:28	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D
15-MAR-2010 09:54	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\005F0501.D
Cal Level: 3 , Cal Amount: 0.02500		
15-MAR-2010 13:52	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D
15-MAR-2010 10:17	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\006F0601.D
Cal Level: 4 , Cal Amount: 0.05000		
15-MAR-2010 14:16	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\016F1601.D
15-MAR-2010 10:41	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\007F0701.D
Cal Level: 5 , Cal Amount: 0.10000		
15-MAR-2010 14:41	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D
15-MAR-2010 11:05	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\008F0801.D
Cal Level: 6 , Cal Amount: 0.20000		
15-MAR-2010 11:29	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D

Report Date : 16-Mar-2010 07:19

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Last Edit : 16-Mar-2010 07:02 vandorenc

Calibration File Names:
Level 1: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\013F1301.D
Level 2: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\014F1401.D
Level 3: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\015F1501.D
Level 4: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D
Level 5: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\017F1701.D
Level 6: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\009F0901.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
4 alpha-BHC	118398400	127104900	133919280	147039460	134367700	137926845	AVRG		133126098		7.29800
5 gamma-BHC (Lindane)	150196800	155930800	161854120	179235220	168527980	174787325	AVRG		165088708		6.75667
6 beta-BHC	41655600	40480300	39569400	41659200	38848040	40377465	AVRG		40431668		2.76779
7 delta-BHC	145594800	153111000	163467480	180189740	172660120	179504450	AVRG		165754598		8.60261
8 Heptachlor	74876600	75541500	79146840	84833720	78810630	79180750	AVRG		78731673		4.49614
9 Tech Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
10 Aldrin	146637200	149505300	152069200	168937620	159265700	165128770	AVRG		156923965		5.71081
11 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Last Edit : 16-Mar-2010 07:02 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Heptachlor epoxide	45289600	45337500	46104640	49363460	46293370	46495510	AVRG		46480680		3.22179	
13 gamma-Chlordane	47049200	46891800	48853440	53155820	50314920	52601510	AVRG		49811115		5.40893	
14 alpha-Chlordane	49285400	49843000	50411360	54055280	50992440	53288025	AVRG		51312584		3.75965	
15 Endosulfan I	47726000	47636500	48470840	50945380	47955080	48404405	AVRG		48523034		2.54555	
16 4,4'-DDE	128875600	129675500	135455440	148286540	143919670	152729930	AVRG		139823780		7.12963	
17 Dieldrin	134539200	134652900	140715080	152793540	147174470	150715720	AVRG		143431818		5.56214	
18 Endrin	51375200	51335600	54657560	58367440	55741520	55440255	AVRG		54486263		5.00503	
19 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
20 4,4'-DDD	109861200	109051500	115080760	123342200	120385880	125164995	AVRG		117147756		5.86518	
21 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
22 Endosulfan II	52035000	51135400	51381600	54482580	52734790	53032880	AVRG		52467042		2.34864	
23 4,4'-DDT	87435800	89396600	97902600	108367520	109469700	120257425	AVRG		102138274		12.51757	
24 Toxaphene(1)	1679805	1823828	1910286	1988412	2111213	+++++	AVRG		1902709		8.58720	
(2)	1485835	1717382	1822560	1984386	2128283	+++++	AVRG		1827689		13.51246	
(3)	1363585	1555262	1594703	1743456	1859918	+++++	AVRG		1623385		11.66027	
(4)	2042260	2233094	2252294	2455153	2590592	+++++	AVRG		2314679		9.18044	
(5)	1678975	1952546	2040984	2314225	2526740	+++++	AVRG		2102694		15.60112	
25 Endrin aldehyde	45449600	43341200	44561080	45975920	44242570	45054625	AVRG		44770833		2.08585	
26 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
27 Methoxychlor	52397800	52328400	52920760	54804400	53031430	55214805	AVRG		53449599		2.33218	
28 Endosulfan sulfate	112501000	107625200	108925080	113452940	109764360	112040510	AVRG		110718182		2.06345	
29 Endrin ketone	63075000	61527500	62774240	66090280	62603970	63548655	AVRG		63269941		2.42758	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Last Edit : 16-Mar-2010 07:02 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 1 Tetrachloro-m-xylene	82867600	83143600	83964800	89949540	82032730	83082520	AVRG		84173465		3.44098
$ 30 Decachlorobiphenyl	65695800	61541300	57893600	58870280	56048680	56449440	AVRG		59416517		6.14746

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Last Edit : 16-Mar-2010 07:02 vandorenc

Average %RSD Results.	
Calculated Average %RSD =	6.14945
Maximun Average %RSD =	20.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date : 16-Mar-2010 08:05

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Last Edit : 16-Mar-2010 08:00 vandorenc

Calibration File Names:
Level 1: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D
Level 2: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D
Level 3: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D
Level 4: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\016F1601.D
Level 5: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D
Level 6: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
55 DDD/Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
4 alpha-BHC	94810200	98993100	104570240	117554060	112181210	117915295	AVRG		107670684		9.03604
5 gamma-BHC (Lindane)	90304000	92222400	94982120	105624000	100747190	106207855	AVRG		98347928		6.95644
6 beta-BHC	19710600	18629400	17640280	18530560	17362740	18119535	AVRG		18332186		4.55834
7 delta-BHC	87301000	88723200	94237560	105335900	103073410	109674220	AVRG		98057548		9.46289
8 Heptachlor	92661400	91110800	92193400	100085740	94390380	99201460	AVRG		94940530		4.00637
9 Tech Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
10 Aldrin	27571400	28160800	29163160	32498200	30543090	32147850	AVRG		30014083		6.84905

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Last Edit : 16-Mar-2010 08:00 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
11 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
12 Heptachlor epoxide	80050600	78449500	78686160	84784880	80681620	83967155	AVRG		81103319		3.30511	
13 gamma-Chlordane	79317200	77370900	78073960	84471480	81362890	86302400	AVRG		81149805		4.43376	
14 alpha-Chlordane	79129000	76753500	76711640	81725880	78357570	82584565	AVRG		79210359		3.12962	
15 Endosulfan I	74092400	72423900	71915360	76950000	73832160	76870545	AVRG		74347394		2.89011	
16 4,4'-DDE	30486800	30373800	31837520	34848260	33934440	36600185	AVRG		33013501		7.64068	
17 Dieldrin	73176400	71963900	73573840	80426660	78738110	83036145	AVRG		76819176		5.90036	
18 Endrin	67261800	65791700	68035960	72995180	71583420	75814985	AVRG		70247174		5.47615	
19 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
20 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
21 4,4'-DDD	27467600	27174300	28438520	30712380	30500820	32507685	AVRG		29466884		7.14720	
22 Endosulfan II	32861400	30707400	31287000	33216460	32176000	33575355	AVRG		32303936		3.49115	
23 Toxaphene (1)	1238085	1276188	1317292	1409223	1504030	+++++	AVRG		1348963		7.97296	
(2)	557360	594014	619378	673127	737464	+++++	AVRG		636269		11.08448	
(3)	1135370	1183254	1216514	1322278	1434995	+++++	AVRG		1258482		9.55216	
(4)	1067015	1095682	1104065	1208726	1317250	+++++	AVRG		1158548		8.94964	
(5)	458380	510222	523299	620430	703800	+++++	AVRG		563226		17.40282	
24 4,4'-DDT	22002400	22577700	23961320	26491580	27044450	30543205	AVRG		25436776		12.66824	
25 Endrin aldehyde	59657400	52790000	52463560	53521480	52749600	54372220	AVRG		54259043		5.03782	
26 Endosulfan sulfate	30608800	28703100	28759640	30200100	29767360	31854480	AVRG		29982247		3.98075	
27 Methoxychlor	26459800	25495600	25676600	26836880	26112400	27954550	AVRG		26422638		3.39857	
28 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Last Edit : 16-Mar-2010 08:00 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
29 Endrin ketone	69003600	67753500	67601840	71019760	69378710	72934505	AVRG		69615319		2.93968
$ 1 Tetrachloro-m-xylene	48469000	48743700	47804120	51499720	47853020	49032995	AVRG		48900426		2.78650
$ 30 Decachlorobiphenyl	71000600	67393500	63048600	63437400	59749080	60074400	AVRG		64117263		6.80348

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Last Edit : 16-Mar-2010 08:00 vandorenc

Average %RSD Results.	
Calculated Average %RSD =	6.55038
Maximun Average %RSD =	20.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b/002F0201.D
Report Date: 03/15/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 08:42
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\P

4,4'-DDT Degradation

RT	Area	Compound
10.209	10237521	4,4'-DDT
8.5418	59917	4,4'-DDE
9.7185	847157	4,4'-DDD

Percent Degradation of 4,4'-DDT: 8.14

Endrin Degradation

RT	Area	Compound
9.4060	6177155	Endrin
10.582	233294	Endrin aldehyde
11.678	424488	Endrin ketone

Percent Degradation of Endrin: 9.62

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 15-MAR-2010 08:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:01 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.495	4.499	-0.004	1258151	0.00982	0.009816		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.919	4.923	-0.004	1549604	0.00976	0.009763		
6 beta-BHC						CAS #: 319-85-7	
5.065	5.070	-0.005	384161	0.00988	0.009876		
16 4,4'-DDE						CAS #: 72-55-9	
8.541	8.548	-0.007	59917	5e-004	0.0004688		
18 Endrin						CAS #: 72-20-8	
9.405	9.414	-0.009	2520868	0.05061	0.05061		
20 4,4'-DDD						CAS #: 72-54-8	
9.718	9.727	-0.009	847157	0.00884	0.008836		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.209	10.217	-0.008	10237521	0.09783	0.09783		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.581	10.590	-0.009	96175	0.00232	0.002321		

```
   27 Methoxychlor                                CAS #: 72-43-5
11.106  11.114   -0.008        12326154 0.24344   0.2434
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.275  11.291   -0.016           45398  5e-004  0.0004536
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.677	11.684	-0.007	201504	0.00340	0.003398		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\002F0201.D

Date : 15-MAR-2010 08:42

Client ID:

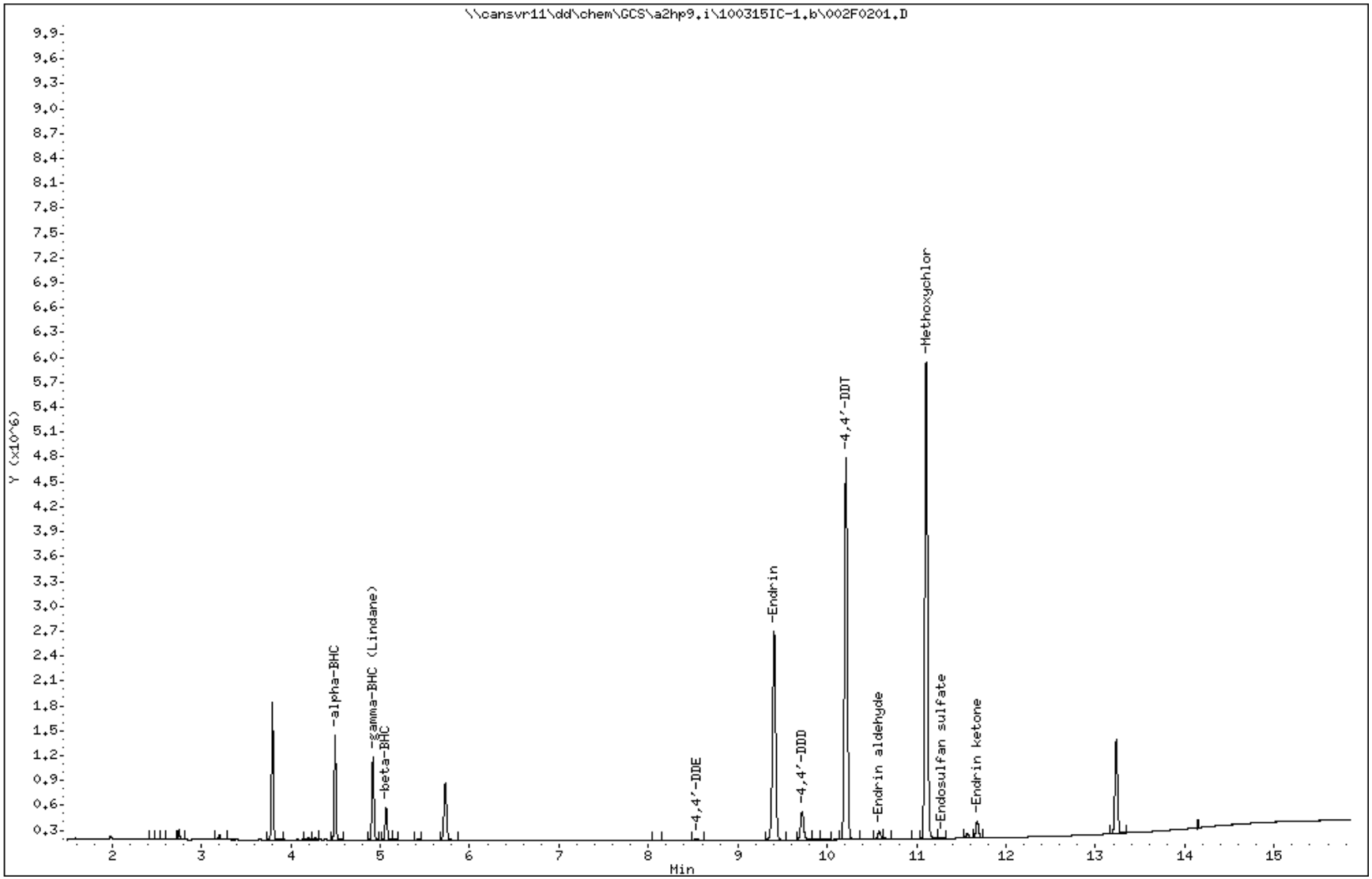
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 08:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.496	1710561	0.010	0.010
5) gamma-BHC (Lindane)	4.919	1549604	0.010	0.010
6) beta-BHC	5.066	659400	0.010	0.010
16) 4,4'-DDE	8.542	59917	0.000	0.000
18) Endrin	9.406	6177155	0.051	0.051
20) 4,4'-DDD	9.718	847157	0.009	0.009
22) Endosulfan II	NOT DETECTED Expected RT = 9.837			
23) 4,4'-DDT	10.209	10237521	0.098	0.098
25) Endrin aldehyde	10.582	233294	0.002	0.002
27) Methoxychlor	11.107	12326154	0.243	0.243
28) Endosulfan sulfate	11.275	45398	0.000	0.000
29) Endrin ketone	11.678	424488	0.003	0.003

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b/002F0201.D
Report Date: 03/15/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 08:42
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\

4,4'-DDT Degradation

RT	Area	Compound
11.625	5085545	4,4'-DDT
10.171	42213	4,4'-DDE
11.143	446319	4,4'-DDD

Percent Degradation of 4,4'-DDT: 8.76

Endrin Degradation

RT	Area	Compound
10.826	3215028	Endrin
11.732	125398	Endrin aldehyde
12.892	241898	Endrin ketone

Percent Degradation of Endrin: 10.25

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 15-MAR-2010 08:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:12 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.287	5.294	-0.007	981217	0.00936	0.009358		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.941	5.951	-0.010	911756	0.00960	0.009602		
6 beta-BHC						CAS #: 319-85-7	
6.146	6.156	-0.010	422499	0.01033	0.01033		
16 4,4'-DDE						CAS #: 72-55-9	
10.170	10.180	-0.010	16459	5e-004	0.0005426		
18 Endrin						CAS #: 72-20-8	
10.825	10.836	-0.011	3215028	0.04909	0.04909		
21 4,4'-DDD						CAS #: 72-54-8	
11.143	11.152	-0.009	205261	0.00843	0.008426		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT						CAS #: 50-29-3	
11.625	11.634	-0.009	2595180	0.09889	0.09889		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.731	11.742	-0.011	125398	0.00251	0.002511		

```
   27 Methoxychlor                                CAS #: 72-43-5
12.674  12.684   -0.010         6319441 0.24448   0.2445
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

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29 Endrin ketone CAS #: 53494-70-5

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
12.891	12.903	-0.012	241898	0.00360	0.003602		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\002F0201.D

Date : 15-MAR-2010 08:42

Client ID:

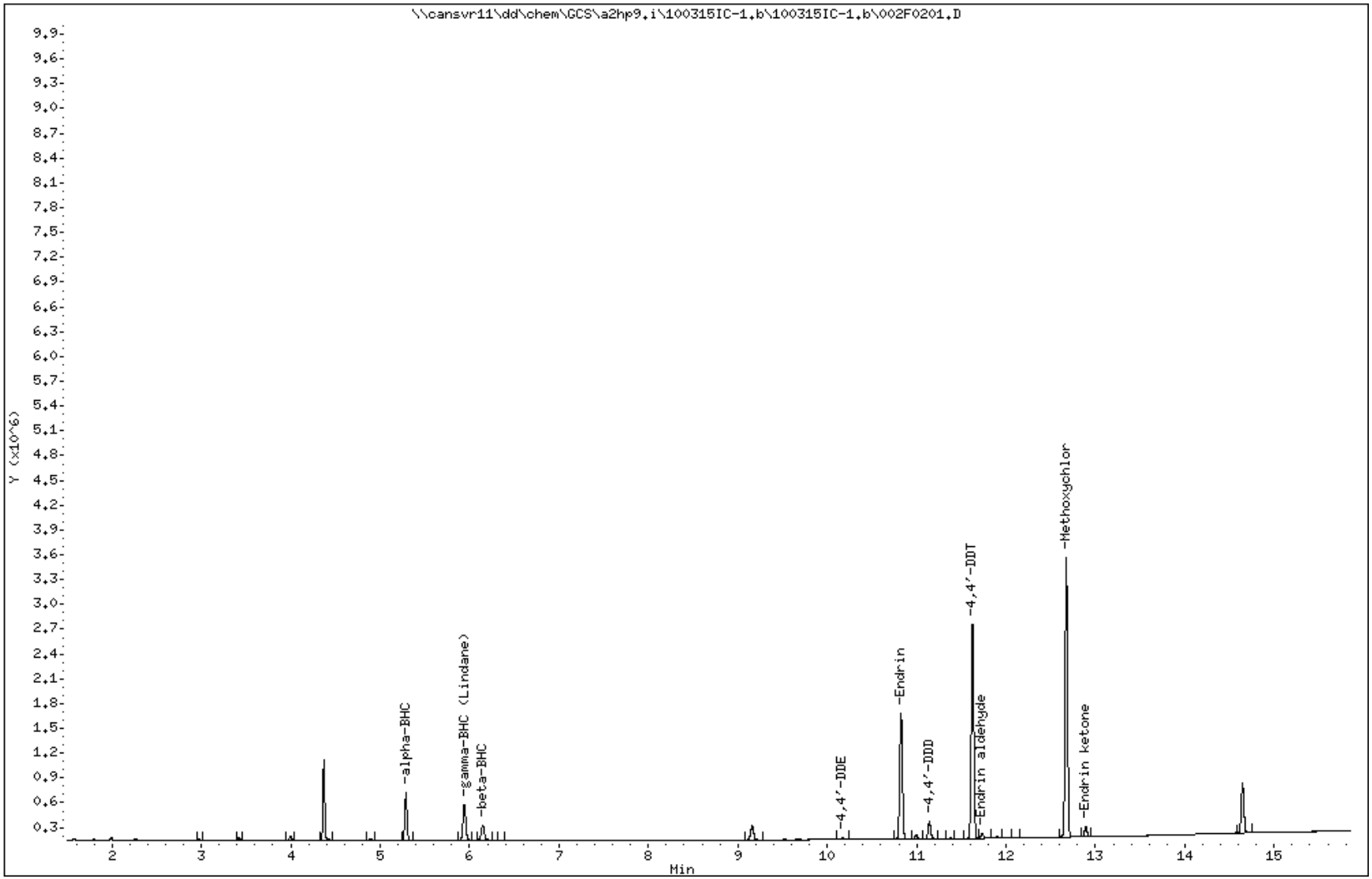
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 08:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.288	981217	0.009	0.009
5) gamma-BHC (Lindane)	5.942	911756	0.010	0.010
6) beta-BHC	6.147	422499	0.010	0.010
16) 4,4'-DDE	10.171	42213	0.001	0.001
18) Endrin	10.826	3215028	0.049	0.049
21) 4,4'-DDD	11.143	446319	0.008	0.008
22) Endosulfan II	NOT DETECTED	Expected RT = 11.197		
24) 4,4'-DDT	11.625	5085545	0.099	0.099
25) Endrin aldehyde	11.732	125398	0.003	0.003
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.166		
27) Methoxychlor	12.674	6319441	0.244	0.244
29) Endrin ketone	12.892	241898	0.004	0.004

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\004F0401.D
Lab Smp Id: AB1 G250
Inj Date : 15-MAR-2010 09:30
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB1 G250,,1,1
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 09:43 Quant Type: ESTD
Cal Date : 09-MAR-2010 12:34 Cal File: 010F1001.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.795	3.795	0.000	414338	0.00500	0.004987		
4 alpha-BHC						CAS #: 319-84-6	
4.497	4.497	0.000	591992	0.00500	0.004515		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.920	4.920	0.000	750984	0.00500	0.004624		
6 beta-BHC						CAS #: 319-85-7	
5.068	5.068	0.000	208278	0.00500	0.005239		
7 delta-BHC						CAS #: 319-86-8	
5.315	5.315	0.000	727974	0.00500	0.004528		
		Sum of Peak Amounts =			0.00453		
8 Heptachlor						CAS #: 76-44-8	
5.639	5.639	0.000	374383	0.00500	0.004968		
10 Aldrin						CAS #: 309-00-2	
6.167	6.167	0.000	733186	0.00500	0.004737		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.603	7.603	0.000	226448	0.00500	0.004945		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.903	7.903	0.000	235246	0.00500	0.004828		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.217	8.217	0.000	246427	0.00500	0.004916		

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   15 Endosulfan I                                CAS #: 959-98-8
8.473    8.473    0.000          238630 0.00500  0.005015
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.541	0.000	644378	0.00500	0.004878		
17 Dieldrin					CAS #: 60-57-1		
8.983	8.983	0.000	672696	0.00500	0.004817		
18 Endrin					CAS #: 72-20-8		
9.408	9.408	0.000	256876	0.00500	0.004974		
20 4,4'-DDD					CAS #: 72-54-8		
9.722	9.722	0.000	549306	0.00500	0.005384		
22 Endosulfan II					CAS #: 33213-65-9		
9.831	9.831	0.000	260175	0.00500	0.005122		
23 4,4'-DDT					CAS #: 50-29-3		
10.213	10.213	0.000	437179	0.00500	0.004139		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.585	10.585	0.000	227248	0.00500	0.005296		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	261989	0.00500	0.005059		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	562505	0.00500	0.005390		
29 Endrin ketone					CAS #: 53494-70-5		
11.679	11.679	0.000	315375	0.00500	0.005152		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.233	13.233	0.000	328479	0.00500	0.005829		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\004F0401.D

Date : 15-MAR-2010 09:30

Client ID:

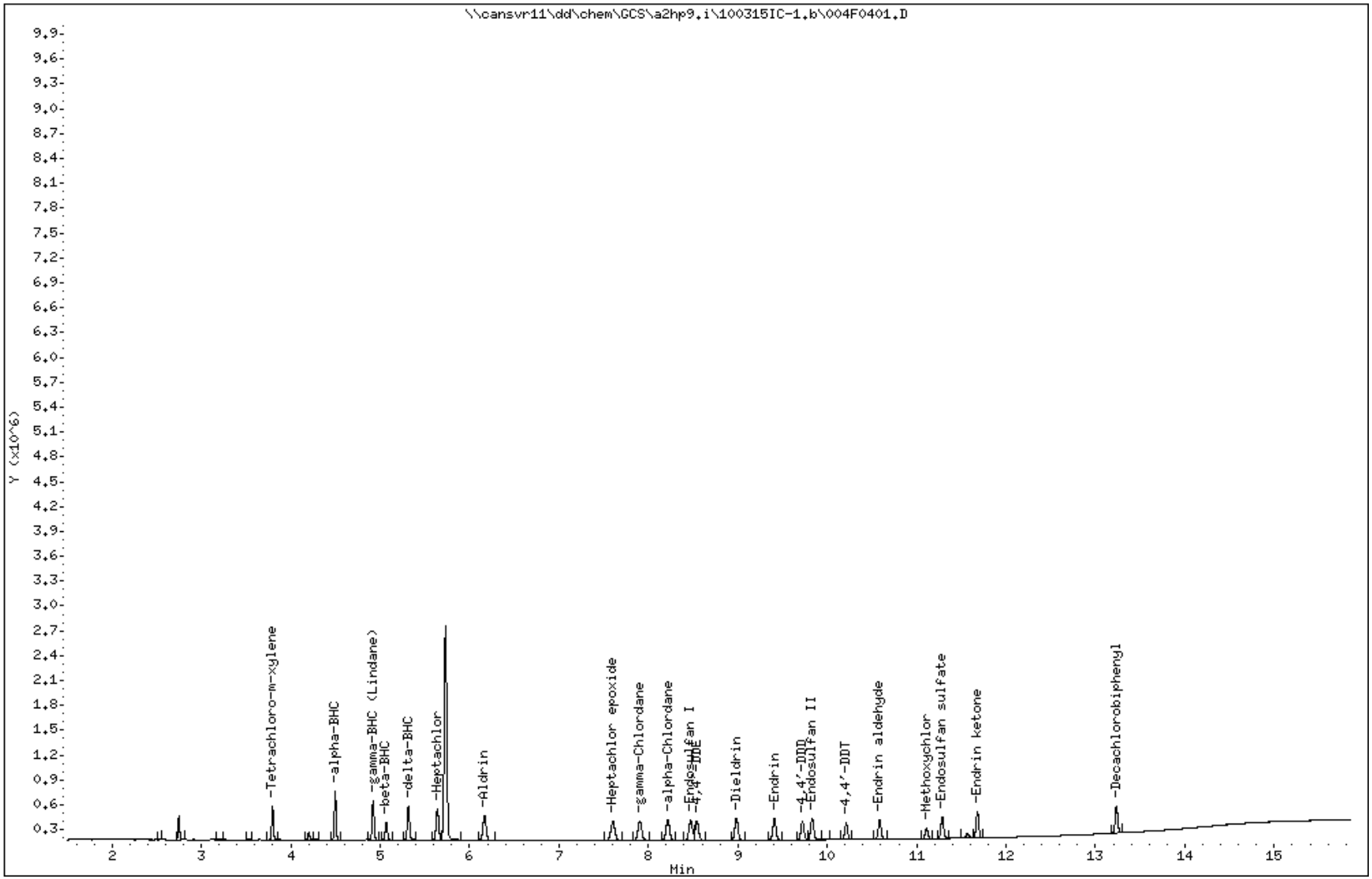
Instrument: a2hp9.i

Sample Info: AB1 G250,,1,1

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 09:30
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/004F0401.D
Lab Sample ID: AB1 G250
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.796	552160	0.005	0.005
4) alpha-BHC	4.497	804113	0.005	0.005
5) gamma-BHC (Lindane)	4.921	750984	0.005	0.005
6) beta-BHC	5.068	358268	0.005	0.005
7) delta-BHC	5.316	727974	0.005	0.005
8) Heptachlor	5.640	769711	0.005	0.005
10) Aldrin	6.167	733186	0.005	0.005
12) Heptachlor epoxide	7.603	707365	0.005	0.005
13) gamma-Chlordane	7.904	706575	0.005	0.005
14) alpha-Chlordane	8.217	707021	0.005	0.005
15) Endosulfan I	8.473	659115	0.005	0.005
16) 4,4'-DDE	8.541	644378	0.005	0.005
17) Dieldrin	8.984	672696	0.005	0.005
18) Endrin	9.409	633222	0.005	0.005
20) 4,4'-DDD	9.722	549306	0.005	0.005
22) Endosulfan II	9.831	636269	0.005	0.005
23) 4,4'-DDT	10.213	437179	0.004	0.004
25) Endrin aldehyde	10.586	521346	0.005	0.005
27) Methoxychlor	11.110	261989	0.005	0.005
28) Endosulfan sulfate	11.286	562505	0.005	0.005
29) Endrin ketone	11.680	649033	0.005	0.005
30) Decachlorobiphenyl	13.234	669653	0.006	0.006

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\005F0501.D
Lab Smp Id: AB2 G251
Inj Date : 15-MAR-2010 09:54
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB2 G251,,1,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 10:07 Quant Type: ESTD
Cal Date : 09-MAR-2010 12:58 Cal File: 011F1101.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.795	3.795	0.000	831436	0.01000	0.009939		
4 alpha-BHC						CAS #: 319-84-6	
4.496	4.496	0.000	1271049	0.01000	0.009614		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.919	4.919	0.000	1559308	0.01000	0.009536		
6 beta-BHC						CAS #: 319-85-7	
5.067	5.067	0.000	404803	0.01000	0.01011		
7 delta-BHC						CAS #: 319-86-8	
5.314	5.314	0.000	1531110	0.01000	0.009427		
		Sum of Peak Amounts =			0.00943		
8 Heptachlor						CAS #: 76-44-8	
5.639	5.639	0.000	755415	0.01000	0.009908		
10 Aldrin						CAS #: 309-00-2	
6.166	6.166	0.000	1495053	0.01000	0.009589		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.602	7.602	0.000	453375	0.01000	0.009829		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.903	7.903	0.000	468918	0.01000	0.009556		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.217	8.217	0.000	498430	0.01000	0.009834		

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   15 Endosulfan I                                CAS #: 959-98-8
8.472    8.472    0.000          476365 0.01000  0.009917
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.542	8.542	0.000	1296755	0.01000	0.009686		
17 Dieldrin					CAS #: 60-57-1		
8.983	8.983	0.000	1346529	0.01000	0.009555		
18 Endrin					CAS #: 72-20-8		
9.409	9.409	0.000	513356	0.01000	0.009819		
20 4,4'-DDD					CAS #: 72-54-8		
9.722	9.722	0.000	1090515	0.01000	0.01034		
22 Endosulfan II					CAS #: 33213-65-9		
9.831	9.831	0.000	511354	0.01000	0.009934		
23 4,4'-DDT					CAS #: 50-29-3		
10.213	10.213	0.000	893966	0.01000	0.008573		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.586	10.586	0.000	433412	0.01000	0.009979		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	523284	0.01000	0.01005		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	1076252	0.01000	0.01014		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.680	0.000	615275	0.01000	0.009956		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.234	13.234	0.000	615413	0.01000	0.01072		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\005F0501.D

Date : 15-MAR-2010 09:54

Client ID:

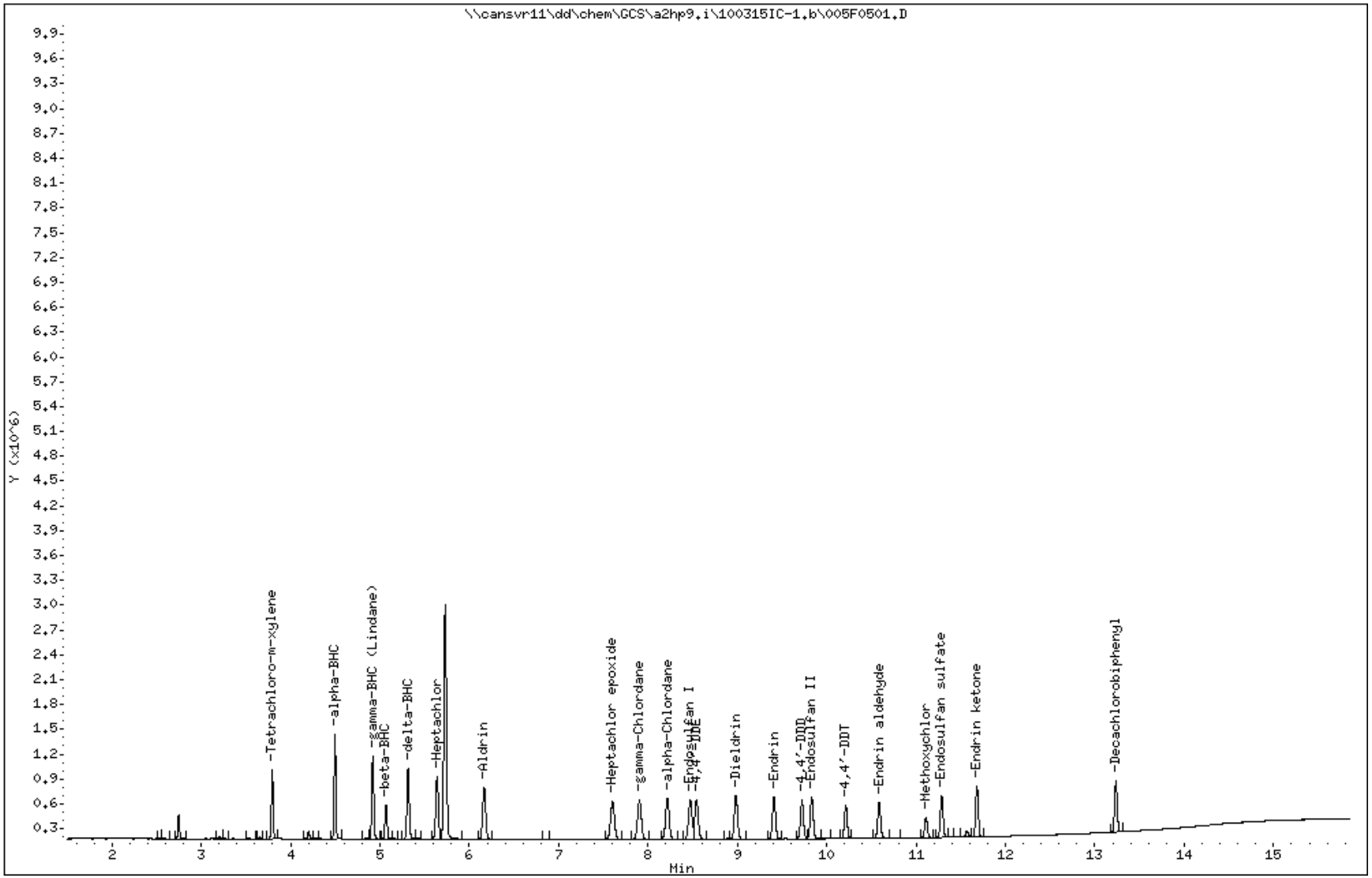
Instrument: a2hp9.i

Sample Info: AB2 G251,,1,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 09:54
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/005F0501.D
Lab Sample ID: AB2 G251
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.796	1105834	0.010	0.010
4) alpha-BHC	4.496	1713697	0.010	0.010
5) gamma-BHC (Lindane)	4.920	1559308	0.010	0.010
6) beta-BHC	5.067	697880	0.010	0.010
7) delta-BHC	5.315	1531110	0.009	0.009
8) Heptachlor	5.640	1566159	0.010	0.010
10) Aldrin	6.166	1495053	0.010	0.010
12) Heptachlor epoxide	7.602	1400875	0.010	0.010
13) gamma-Chlordane	7.903	1397188	0.010	0.010
14) alpha-Chlordane	8.217	1406185	0.010	0.010
15) Endosulfan I	8.472	1301652	0.010	0.010
16) 4,4'-DDE	8.542	1296755	0.010	0.010
17) Dieldrin	8.983	1346529	0.010	0.010
18) Endrin	9.410	1256990	0.010	0.010
20) 4,4'-DDD	9.722	1090515	0.010	0.010
22) Endosulfan II	9.831	1234852	0.010	0.010
23) 4,4'-DDT	10.213	893966	0.009	0.009
25) Endrin aldehyde	10.586	1000111	0.010	0.010
27) Methoxychlor	11.110	523284	0.010	0.010
28) Endosulfan sulfate	11.286	1076252	0.010	0.010
29) Endrin ketone	11.681	1275285	0.010	0.010
30) Decachlorobiphenyl	13.235	1266316	0.011	0.011

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\006F0601.D
Lab Smp Id: AB3 G252
Inj Date : 15-MAR-2010 10:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,1,3
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 10:30 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:23 Cal File: 012F1201.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.795	3.795	0.000	2099120	0.02500	0.02508		
4 alpha-BHC					CAS #: 319-84-6		
4.496	4.496	0.000	3347982	0.02500	0.02534		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.919	4.919	0.000	4046353	0.02500	0.02472		
6 beta-BHC					CAS #: 319-85-7		
5.066	5.066	0.000	989235	0.02500	0.02467		
7 delta-BHC					CAS #: 319-86-8		
5.314	5.314	0.000	4086687	0.02500	0.02507		
		Sum of Peak Amounts =			0.02507		
8 Heptachlor					CAS #: 76-44-8		
5.638	5.638	0.000	1978671	0.02500	0.02578		
10 Aldrin					CAS #: 309-00-2		
6.165	6.165	0.000	3801730	0.02500	0.02436		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.600	7.600	0.000	1152616	0.02500	0.02497		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.902	7.902	0.000	1221336	0.02500	0.02482		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.215	8.215	0.000	1260284	0.02500	0.02479		

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--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
8.471    8.471    0.000         1211771 0.02500  0.02518
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```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.541	0.000	3386386	0.02500	0.02507		
17 Dieldrin					CAS #: 60-57-1		
8.984	8.984	0.000	3517877	0.02500	0.02488		
18 Endrin					CAS #: 72-20-8		
9.409	9.409	0.000	1366439	0.02500	0.02590		
20 4,4'-DDD					CAS #: 72-54-8		
9.721	9.721	0.000	2877019	0.02500	0.02655		
22 Endosulfan II					CAS #: 33213-65-9		
9.831	9.831	0.000	1284540	0.02500	0.02492		
23 4,4'-DDT					CAS #: 50-29-3		
10.211	10.211	0.000	2447565	0.02500	0.02383		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.585	10.585	0.000	1114027	0.02500	0.02543		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	1323019	0.02500	0.02549		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	2723127	0.02500	0.02543		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.680	0.000	1569356	0.02500	0.02537		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.235	13.235	0.000	1447340	0.02500	0.02508		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\006F0601.D

Date : 15-MAR-2010 10:17

Client ID:

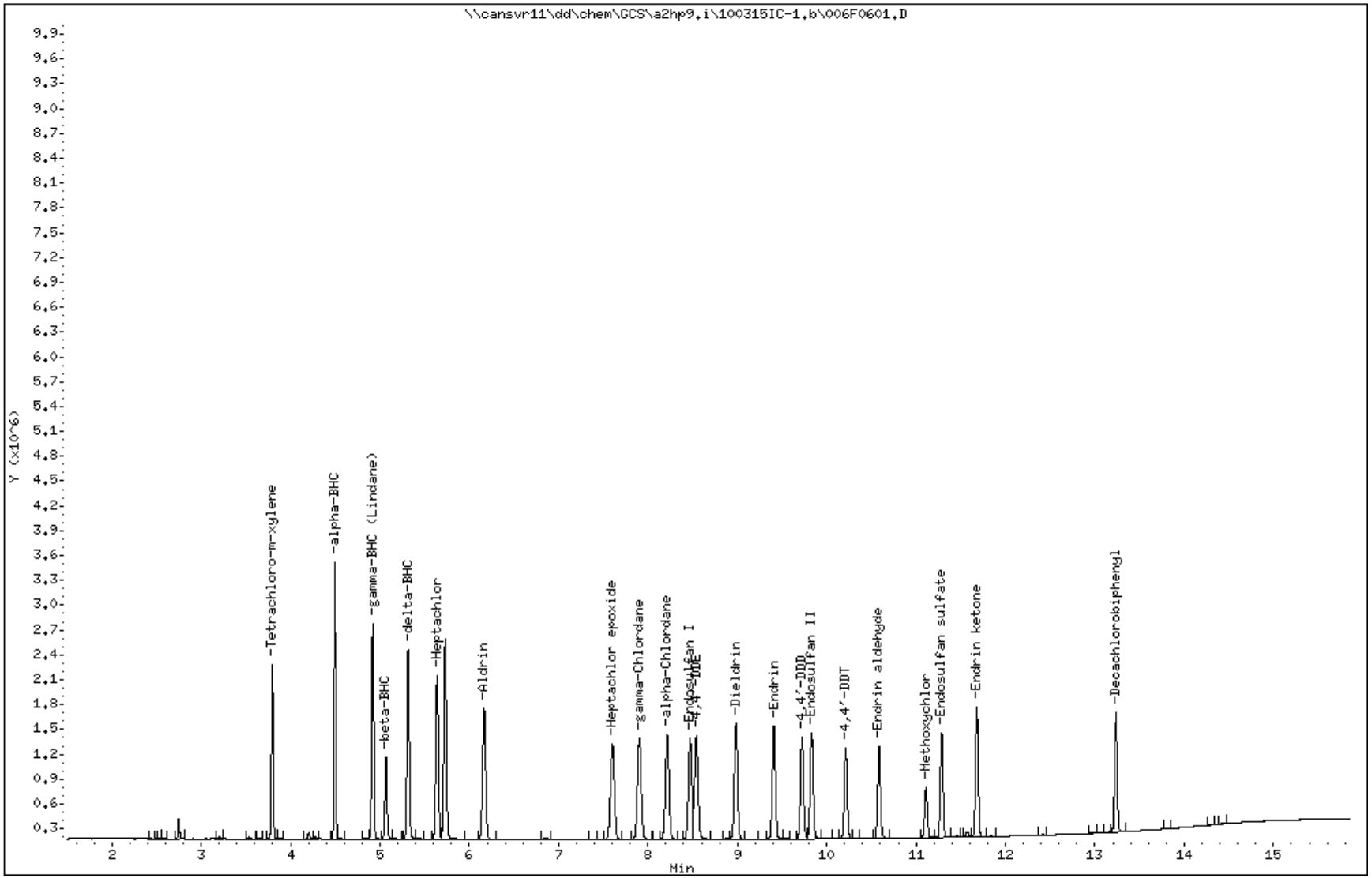
Instrument: a2hp9.i

Sample Info: AB3 G252,,1,3

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 10:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/006F0601.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.795	2759978	0.025	0.025
4) alpha-BHC	4.496	4570570	0.025	0.025
5) gamma-BHC (Lindane)	4.919	4046353	0.025	0.025
6) beta-BHC	5.067	1683449	0.025	0.025
7) delta-BHC	5.314	4086687	0.025	0.025
8) Heptachlor	5.639	4046100	0.026	0.026
10) Aldrin	6.165	3801730	0.024	0.024
12) Heptachlor epoxide	7.600	3509729	0.025	0.025
13) gamma-Chlordane	7.903	3573380	0.025	0.025
14) alpha-Chlordane	8.215	3545643	0.025	0.025
15) Endosulfan I	8.471	3310843	0.025	0.025
16) 4,4'-DDE	8.542	3386386	0.025	0.025
17) Dieldrin	8.984	3517877	0.025	0.025
18) Endrin	9.409	3298935	0.026	0.026
20) 4,4'-DDD	9.722	2877019	0.027	0.027
22) Endosulfan II	9.831	3125559	0.025	0.025
23) 4,4'-DDT	10.212	2447565	0.024	0.024
25) Endrin aldehyde	10.585	2490808	0.025	0.025
27) Methoxychlor	11.109	1323019	0.025	0.025
28) Endosulfan sulfate	11.285	2723127	0.025	0.025
29) Endrin ketone	11.680	3245208	0.025	0.025
30) Decachlorobiphenyl	13.235	2951812	0.025	0.025

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\007F0701.D
Lab Smp Id: AB4 G253
Inj Date : 15-MAR-2010 10:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB4 G253,,1,4
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 10:54 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.795	3.795	0.000	4497477	0.05000	0.05290		
4 alpha-BHC					CAS #: 319-84-6		
4.496	4.496	0.000	7351973	0.05000	0.05481		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.919	4.919	0.000	8961761	0.05000	0.05400		
6 beta-BHC					CAS #: 319-85-7		
5.066	5.066	0.000	2082960	0.05000	0.05129		
7 delta-BHC					CAS #: 319-86-8		
5.314	5.314	0.000	9009487	0.05000	0.05446		
		Sum of Peak Amounts =			0.05446		
8 Heptachlor					CAS #: 76-44-8		
5.639	5.639	0.000	4241686	0.05000	0.05420		
10 Aldrin					CAS #: 309-00-2		
6.166	6.166	0.000	8446881	0.05000	0.05338		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.601	7.601	0.000	2468173	0.05000	0.05280		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.903	7.903	0.000	2657791	0.05000	0.05327		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.216	8.216	0.000	2702764	0.05000	0.05252		

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   15 Endosulfan I                                CAS #: 959-98-8
8.471    8.471    0.000         2547269 0.05000  0.05240
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```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.541	0.000	7414327	0.05000	0.05391		
17 Dieldrin					CAS #: 60-57-1		
8.984	8.984	0.000	7639677	0.05000	0.05344		
18 Endrin					CAS #: 72-20-8		
9.409	9.409	0.000	2918372	0.05000	0.05441		
20 4,4'-DDD					CAS #: 72-54-8		
9.722	9.722	0.000	6167110	0.05000	0.05515		
22 Endosulfan II					CAS #: 33213-65-9		
9.830	9.830	0.000	2724129	0.05000	0.05250		
23 4,4'-DDT					CAS #: 50-29-3		
10.211	10.211	0.000	5418376	0.05000	0.05298		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.585	10.585	0.000	2298796	0.05000	0.05206		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	2740220	0.05000	0.05245		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.286	11.286	0.000	5672647	0.05000	0.05230		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.680	0.000	3304514	0.05000	0.05299		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.234	13.234	0.000	2943514	0.05000	0.05060		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\007F0701.D

Date : 15-MAR-2010 10:41

Client ID:

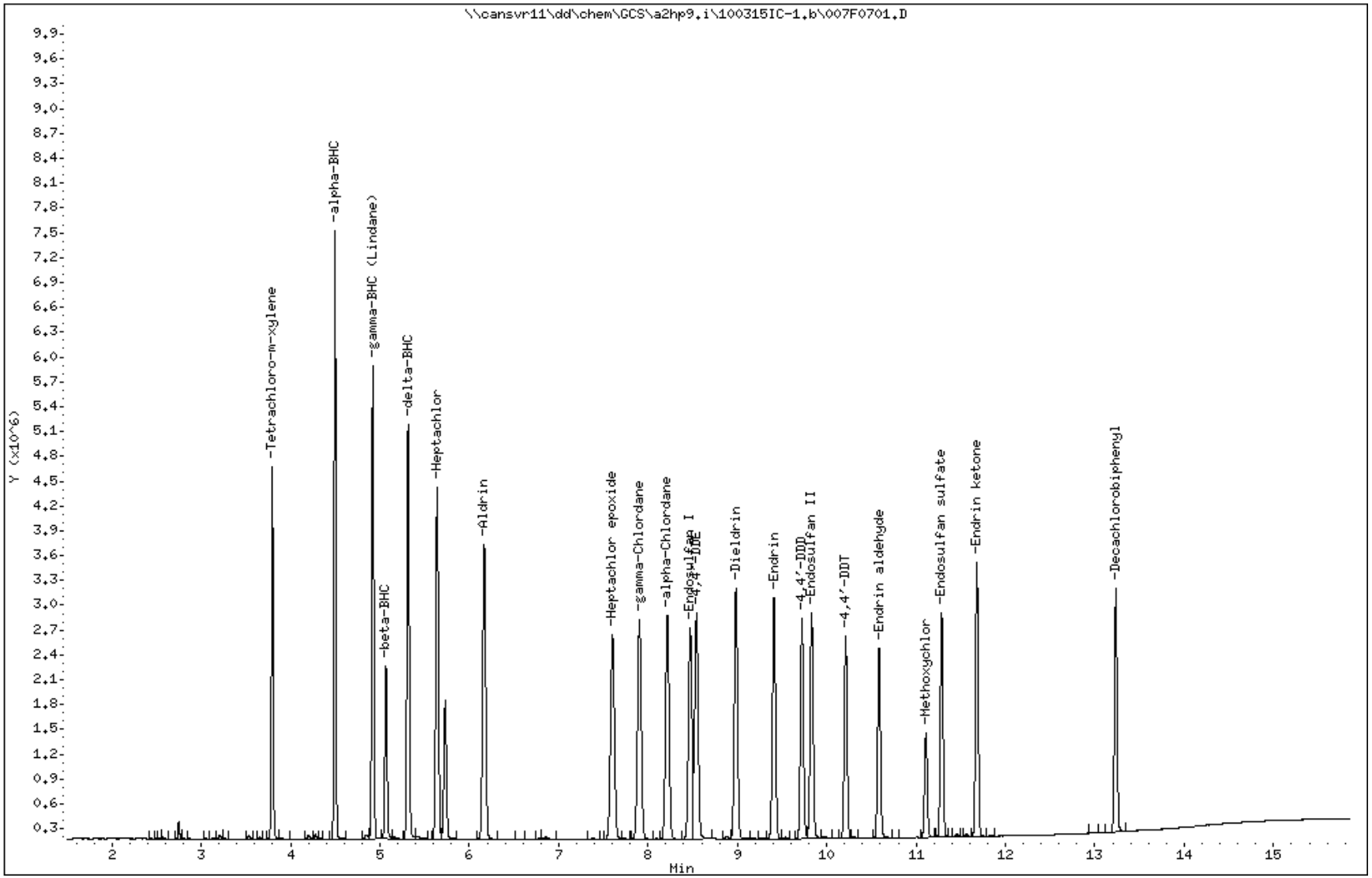
Instrument: a2hp9.i

Sample Info: AB4 G253,,1,4

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 10:41
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/007F0701.D
Lab Sample ID: AB4 G253
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.796	5907968	0.053	0.053
4) alpha-BHC	4.497	10052134	0.055	0.055
5) gamma-BHC (Lindane)	4.920	8961761	0.054	0.054
6) beta-BHC	5.067	3512525	0.051	0.051
7) delta-BHC	5.315	9009487	0.054	0.054
8) Heptachlor	5.640	8709705	0.054	0.054
10) Aldrin	6.167	8446881	0.053	0.053
12) Heptachlor epoxide	7.602	7518213	0.053	0.053
13) gamma-Chlordane	7.903	7728913	0.053	0.053
14) alpha-Chlordane	8.217	7598332	0.053	0.053
15) Endosulfan I	8.472	6987882	0.052	0.052
16) 4,4'-DDE	8.542	7414327	0.054	0.054
17) Dieldrin	8.984	7639677	0.053	0.053
18) Endrin	9.410	7043190	0.054	0.054
20) 4,4'-DDD	9.722	6167110	0.055	0.055
22) Endosulfan II	9.831	6568963	0.053	0.053
23) 4,4'-DDT	10.212	5418376	0.053	0.053
25) Endrin aldehyde	10.586	5167394	0.052	0.052
27) Methoxychlor	11.110	2740220	0.052	0.052
28) Endosulfan sulfate	11.287	5672647	0.052	0.052
29) Endrin ketone	11.681	6839952	0.053	0.053
30) Decachlorobiphenyl	13.235	5914250	0.051	0.051

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\008F0801.D
Lab Smp Id: AB5 G254
Inj Date : 15-MAR-2010 11:05
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB5 G254,,1,5
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 11:18 Quant Type: ESTD
Cal Date : 09-MAR-2010 14:13 Cal File: 014F1401.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.795	3.795	0.000	8203273	0.10000	0.09709		
4 alpha-BHC						CAS #: 319-84-6	
4.496	4.496	0.000	13436770	0.10000	0.1007		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.919	4.919	0.000	16852798	0.10000	0.1019		
6 beta-BHC						CAS #: 319-85-7	
5.066	5.066	0.000	3884804	0.10000	0.09610		
7 delta-BHC						CAS #: 319-86-8	
5.315	5.315	0.000	17266012	0.10000	0.1043		
		Sum of Peak Amounts =			0.10430		
8 Heptachlor						CAS #: 76-44-8	
5.639	5.639	0.000	7881063	0.10000	0.1004		
10 Aldrin						CAS #: 309-00-2	
6.165	6.165	0.000	15926570	0.10000	0.1012		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.601	7.601	0.000	4629337	0.10000	0.09930		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.902	7.902	0.000	5031492	0.10000	0.1011		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.216	8.216	0.000	5099244	0.10000	0.09928		

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   15 Endosulfan I                                CAS #: 959-98-8
8.470    8.470    0.000         4795508 0.10000  0.09877
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.541	0.000	14391967	0.10000	0.1038		
17 Dieldrin					CAS #: 60-57-1		
8.983	8.983	0.000	14717447	0.10000	0.1026		
18 Endrin					CAS #: 72-20-8		
9.408	9.408	0.000	5574152	0.10000	0.1029		
20 4,4'-DDD					CAS #: 72-54-8		
9.721	9.721	0.000	12038588	0.10000	0.1048		
22 Endosulfan II					CAS #: 33213-65-9		
9.830	9.830	0.000	5273479	0.10000	0.1009		
23 4,4'-DDT					CAS #: 50-29-3		
10.211	10.211	0.000	10946970	0.10000	0.1071		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.585	10.585	0.000	4424257	0.10000	0.09932		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	5303143	0.10000	0.1003		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	10976436	0.10000	0.09995		
29 Endrin ketone					CAS #: 53494-70-5		
11.679	11.679	0.000	6260397	0.10000	0.09953		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.234	13.234	0.000	5604868	0.10000	0.09510		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\008F0801.D

Date : 15-MAR-2010 11:05

Client ID:

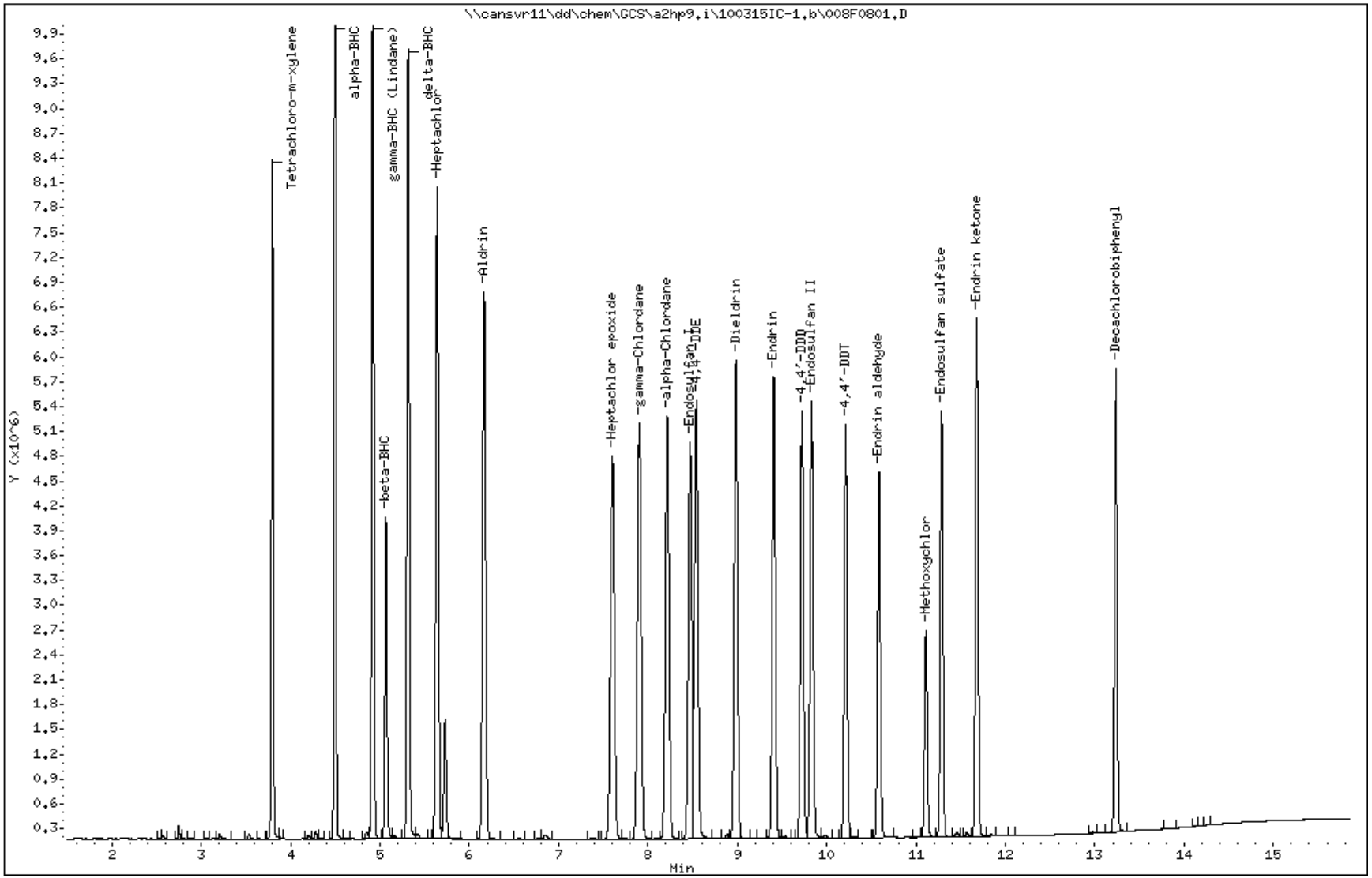
Instrument: a2hp9.i

Sample Info: AB5 G254,,1,5

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 11:05
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/008F0801.D
Lab Sample ID: AB5 G254
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.795	10904608	0.097	0.097
4) alpha-BHC	4.497	18863402	0.101	0.101
5) gamma-BHC (Lindane)	4.919	16852798	0.102	0.102
6) beta-BHC	5.067	6549704	0.096	0.096
7) delta-BHC	5.315	17266012	0.104	0.104
8) Heptachlor	5.639	16245476	0.100	0.100
10) Aldrin	6.166	15926570	0.101	0.101
12) Heptachlor epoxide	7.602	14170841	0.099	0.099
13) gamma-Chlordane	7.903	14887414	0.101	0.101
14) alpha-Chlordane	8.217	14483284	0.099	0.099
15) Endosulfan I	8.471	13264181	0.099	0.099
16) 4,4'-DDE	8.542	14391967	0.104	0.104
17) Dieldrin	8.983	14717447	0.103	0.103
18) Endrin	9.408	13545395	0.103	0.103
20) 4,4'-DDD	9.722	12038588	0.105	0.105
22) Endosulfan II	9.831	12597739	0.101	0.101
23) 4,4'-DDT	10.212	10946970	0.107	0.107
25) Endrin aldehyde	10.585	9882409	0.099	0.099
27) Methoxychlor	11.109	5303143	0.100	0.100
28) Endosulfan sulfate	11.285	10976436	0.100	0.100
29) Endrin ketone	11.679	13132797	0.100	0.100
30) Decachlorobiphenyl	13.234	11175417	0.095	0.095

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\009F0901.D
Lab Smp Id: AB6 G255
Inj Date : 15-MAR-2010 11:29
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB6 G255,,1,6
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 11:42 Quant Type: ESTD
Cal Date : 15-MAR-2010 11:29 Cal File: 009F0901.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.795	3.795	0.000	16616504	0.20000	0.1974		
4 alpha-BHC						CAS #: 319-84-6	
4.496	4.496	0.000	27585369	0.20000	0.2072		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.920	4.920	0.000	34957465	0.20000	0.2117		
6 beta-BHC						CAS #: 319-85-7	
5.066	5.066	0.000	8075493	0.20000	0.1997		
7 delta-BHC						CAS #: 319-86-8	
5.315	5.315	0.000	35900890	0.20000	0.2166		
Sum of Peak Amounts =					0.21660		
8 Heptachlor						CAS #: 76-44-8	
5.639	5.639	0.000	15836150	0.20000	0.2011		
10 Aldrin						CAS #: 309-00-2	
6.166	6.166	0.000	33025754	0.20000	0.2104		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.601	7.601	0.000	9299102	0.20000	0.2001		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.902	7.902	0.000	10520302	0.20000	0.2112		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.214	8.214	0.000	10657605	0.20000	0.2077		

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   15 Endosulfan I                                CAS #: 959-98-8
8.470    8.470    0.000         9680881 0.20000   0.1995
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.541	0.000	30545986	0.20000	0.2185		
17 Dieldrin					CAS #: 60-57-1		
8.983	8.983	0.000	30143144	0.20000	0.2102		
18 Endrin					CAS #: 72-20-8		
9.408	9.408	0.000	11088051	0.20000	0.2035		
20 4,4'-DDD					CAS #: 72-54-8		
9.721	9.721	0.000	25032999	0.20000	0.2137		
22 Endosulfan II					CAS #: 33213-65-9		
9.831	9.831	0.000	10606576	0.20000	0.2022		
23 4,4'-DDT					CAS #: 50-29-3		
10.211	10.211	0.000	24051485	0.20000	0.2355		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.586	10.586	0.000	9010925	0.20000	0.2013		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	11042961	0.20000	0.2066		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.286	11.286	0.000	22408102	0.20000	0.2024		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.680	0.000	12709731	0.20000	0.2009		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.235	13.235	0.000	11289888	0.20000	0.1900		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\009F0901.D

Page 1

Date : 15-MAR-2010 11:29

Client ID:

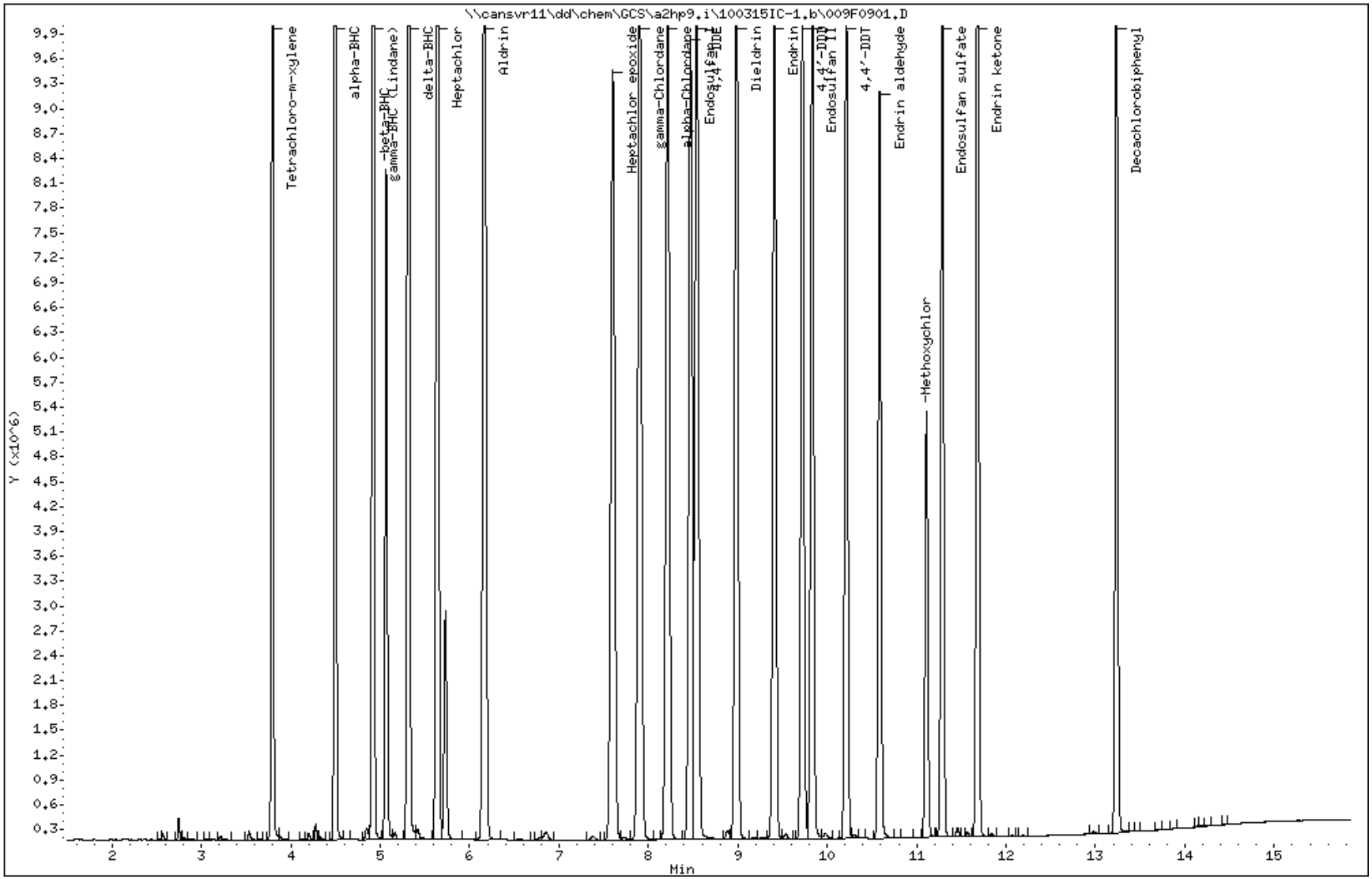
Instrument: a2hp9.i

Sample Info: AB6 G255,,1,6

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 11:29
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/009F0901.D
Lab Sample ID: AB6 G255
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.795	22234055	0.197	0.197
4) alpha-BHC	4.497	39021445	0.207	0.207
5) gamma-BHC (Lindane)	4.920	34957465	0.212	0.212
6) beta-BHC	5.067	13494522	0.200	0.200
7) delta-BHC	5.315	35900890	0.217	0.217
8) Heptachlor	5.639	33290556	0.201	0.201
10) Aldrin	6.166	33025754	0.210	0.210
12) Heptachlor epoxide	7.602	28910219	0.200	0.200
13) gamma-Chlordane	7.903	31171495	0.211	0.211
14) alpha-Chlordane	8.214	30180275	0.208	0.208
15) Endosulfan I	8.470	26916088	0.200	0.200
16) 4,4'-DDE	8.541	30545986	0.218	0.218
17) Dieldrin	8.984	30143144	0.210	0.210
18) Endrin	9.409	27724253	0.204	0.204
20) 4,4'-DDD	9.721	25032999	0.214	0.214
22) Endosulfan II	9.831	25563439	0.202	0.202
23) 4,4'-DDT	10.212	24051485	0.235	0.235
25) Endrin aldehyde	10.586	19994047	0.201	0.201
27) Methoxychlor	11.109	11042961	0.207	0.207
28) Endosulfan sulfate	11.286	22408102	0.202	0.202
29) Endrin ketone	11.680	26653898	0.201	0.201
30) Decachlorobiphenyl	13.235	22255577	0.190	0.190

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\012F1201.D Page 1
Report Date: 16-Mar-2010 07:02

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 12:40
Lab File ID: 012F1201.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: ICV Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	84173465	++++	++++	0.000	++++	15.00000	Averaged	<-
4 alpha-BHC	133126098	141889200	141889200	0.010	-6.58256	15.00000	Averaged	
5 gamma-BHC (Lindane)	165088708	164014160	164014160	0.010	0.65089	15.00000	Averaged	
6 beta-BHC	40431668	42191840	42191840	0.010	-4.35345	15.00000	Averaged	
7 delta-BHC	165754598	174646200	174646200	0.010	-5.36432	15.00000	Averaged	
8 Heptachlor	78731673	82676120	82676120	0.010	-5.00999	15.00000	Averaged	
10 Aldrin	156923965	153294240	153294240	0.010	2.31305	15.00000	Averaged	
12 Heptachlor epoxide	46480680	48379440	48379440	0.010	-4.08505	15.00000	Averaged	
13 gamma-Chlordane	49811115	51527720	51527720	0.010	-3.44623	15.00000	Averaged	
14 alpha-Chlordane	51312584	53359720	53359720	0.010	-3.98954	15.00000	Averaged	
15 Endosulfan I	48523034	51117480	51117480	0.010	-5.34683	15.00000	Averaged	
16 4,4'-DDE	139823780	141004240	141004240	0.010	-0.84425	15.00000	Averaged	
17 Dieldrin	143431818	150218160	150218160	0.010	-4.73141	15.00000	Averaged	
18 Endrin	54486263	57859320	57859320	0.010	-6.19066	15.00000	Averaged	
20 4,4'-DDD	117147756	127863720	127863720	0.010	-9.14739	15.00000	Averaged	
22 Endosulfan II	52467042	55611840	55611840	0.010	-5.99385	15.00000	Averaged	
23 4,4'-DDT	102138274	92465280	92465280	0.010	9.47049	15.00000	Averaged	
25 Endrin aldehyde	44770833	44587840	44587840	0.010	0.40873	15.00000	Averaged	
27 Methoxychlor	53449599	53602440	53602440	0.010	-0.28595	15.00000	Averaged	
28 Endosulfan sulfate	110718182	116217440	116217440	0.010	-4.96690	15.00000	Averaged	
29 Endrin ketone	63269941	63630040	63630040	0.010	-0.56915	15.00000	Averaged	
$ 30 Decachlorobiphenyl	59416517	++++	0.00000	0.010	++++	15.00000	Averaged	<-

Average %D / Drift Results.
Calculated Average %D/Drift = 4.18753
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\012F1201.D
Lab Smp Id: ICV
Inj Date : 15-MAR-2010 12:40
Operator : 093905 Inst ID: a2hp9.i
Smp Info : ICV
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:02 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:41 Cal File: 017F1701.D
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-ab.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
Peaks not detected for Quant. or Qual. signal(s).							
4 alpha-BHC						CAS #: 319-84-6	
4.497	4.497	0.000	3547230	0.02500	0.02664		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.919	4.919	0.000	4100354	0.02500	0.02484		
6 beta-BHC						CAS #: 319-85-7	
5.067	5.067	0.000	1054796	0.02500	0.02609		
7 delta-BHC						CAS #: 319-86-8	
5.315	5.315	0.000	4366155	0.02500	0.02634		
		Sum of Peak Amounts =			0.02634		
8 Heptachlor						CAS #: 76-44-8	
5.639	5.639	0.000	2066903	0.02500	0.02625		
10 Aldrin						CAS #: 309-00-2	
6.166	6.166	0.000	3832356	0.02500	0.02442		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.603	7.603	0.000	1209486	0.02500	0.02602		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.903	7.903	0.000	1288193	0.02500	0.02586		

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--------------------------------------------------------------------------------
   14 alpha-Chlordane                            CAS #: 5103-71-9
8.216    8.216    0.000         1333993 0.02500  0.02600
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
8.472	8.472	0.000	1277937	0.02500	0.02634		
16 4,4'-DDE					CAS #: 72-55-9		
8.542	8.542	0.000	3525106	0.02500	0.02521		
17 Dieldrin					CAS #: 60-57-1		
8.984	8.984	0.000	3755454	0.02500	0.02618		
18 Endrin					CAS #: 72-20-8		
9.408	9.408	0.000	1446483	0.02500	0.02655		
20 4,4'-DDD					CAS #: 72-54-8		
9.723	9.723	0.000	3196593	0.02500	0.02729		
22 Endosulfan II					CAS #: 33213-65-9		
9.831	9.831	0.000	1390296	0.02500	0.02650		
23 4,4'-DDT					CAS #: 50-29-3		
10.212	10.212	0.000	2311632	0.02500	0.02263		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.584	10.584	0.000	1114696	0.02500	0.02490		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	1340061	0.02500	0.02507		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.287	11.287	0.000	2905436	0.02500	0.02624		
29 Endrin ketone					CAS #: 53494-70-5		
11.679	11.679	0.000	1590751	0.02500	0.02514		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\012F1201.D

Date : 15-MAR-2010 12:40

Client ID:

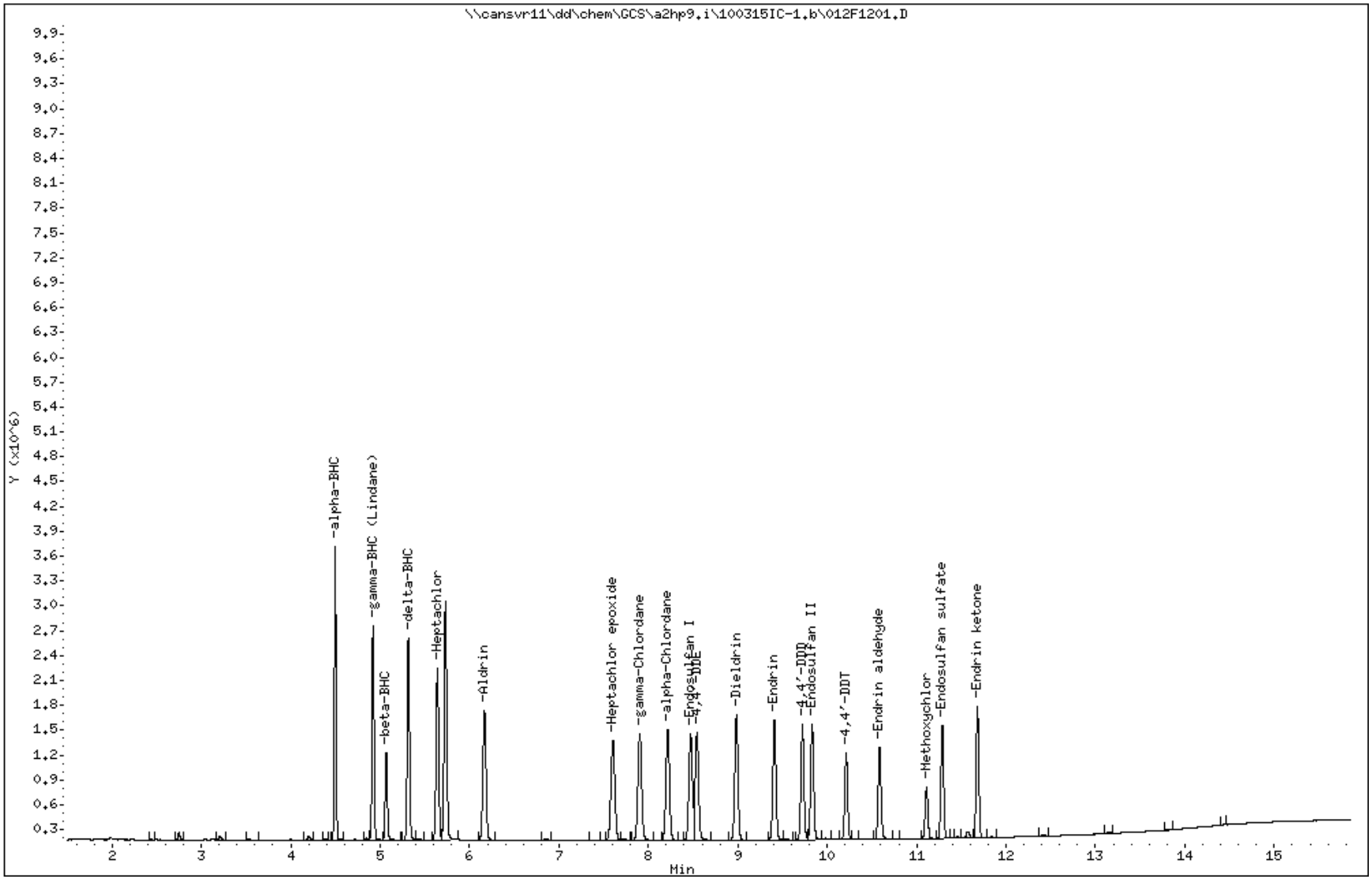
Instrument: a2hp9.i

Sample Info: ICV

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 12:40
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/012F1201.D
Lab Sample ID: ICV
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 3.795		
4) alpha-BHC	4.497	4839861	0.027	0.027
5) gamma-BHC (Lindane)	4.920	4100354	0.025	0.025
6) beta-BHC	5.067	1800359	0.026	0.026
7) delta-BHC	5.316	4366155	0.026	0.026
8) Heptachlor	5.640	4220795	0.026	0.026
10) Aldrin	6.166	3832356	0.024	0.024
12) Heptachlor epoxide	7.603	3721228	0.026	0.026
13) gamma-Chlordane	7.904	3794410	0.026	0.026
14) alpha-Chlordane	8.216	3754580	0.026	0.026
15) Endosulfan I	8.472	3498523	0.026	0.026
16) 4,4'-DDE	8.542	3525106	0.025	0.025
17) Dieldrin	8.985	3755454	0.026	0.026
18) Endrin	9.408	3513008	0.027	0.027
20) 4,4'-DDD	9.723	3196593	0.027	0.027
22) Endosulfan II	9.831	3315715	0.026	0.026
23) 4,4'-DDT	10.212	2311632	0.023	0.023
25) Endrin aldehyde	10.585	2569509	0.025	0.025
27) Methoxychlor	11.110	1340061	0.025	0.025
28) Endosulfan sulfate	11.287	2905436	0.026	0.026
29) Endrin ketone	11.680	3291757	0.025	0.025
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 13.235		

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\013F1301.D
Lab Smp Id: TOX1 G268
Inj Date : 15-MAR-2010 13:03
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX1 G268,,1,1
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 13:16 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.953	9.953	0.000	335961	0.20000	0.1829	80.00- 120.00	100.00
10.382	10.382	0.000	297167	0.20000	0.1641	114.04- 154.04	88.45
10.529	10.529	0.000	272717	0.20000	0.1711	115.64- 155.64	81.18
11.094	11.094	0.000	408452	0.20000	0.1759	52.78- 92.78	121.58
11.200	11.200	0.000	335795	0.20000	0.1546	69.36- 109.36	99.95
		Average of Peak Amounts =			0.16972		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\013F1301.D

Page 1

Date : 15-MAR-2010 13:03

Client ID:

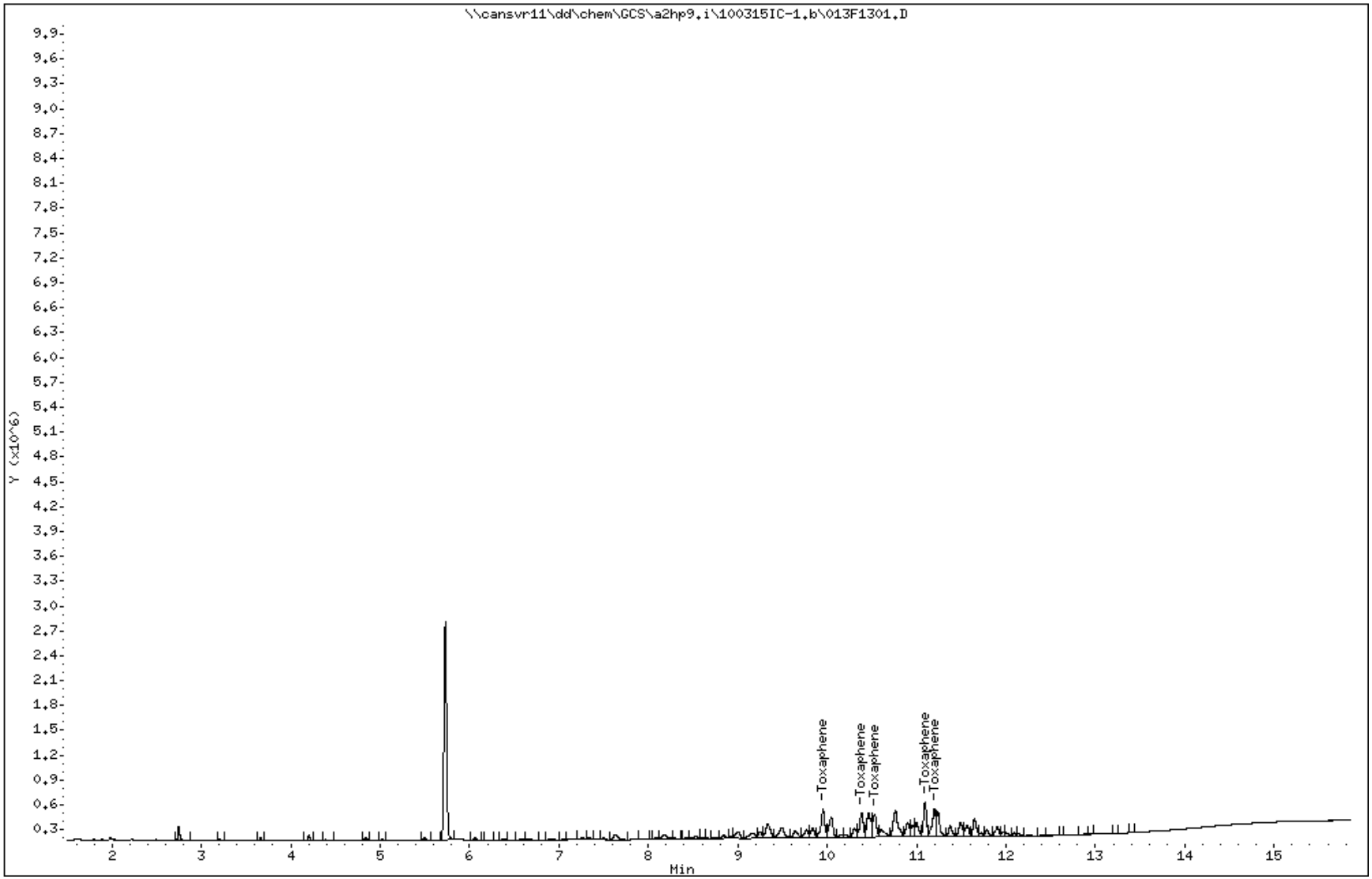
Instrument: a2hp9.i

Sample Info: TOX1 G268,,1,1

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 13:03
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/013F1301.D
Lab Sample ID: TOX1 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.954	966716	0.183	0.183

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\014F1401.D
Lab Smp Id: TOX2 G268
Inj Date : 15-MAR-2010 13:28
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX2 G268,,1,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 13:41 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:28 Cal File: 014F1401.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.954	9.954	0.000	911914	0.50000	0.4972	80.00- 120.00	100.00
10.386	10.386	0.000	858691	0.50000	0.4795	114.04- 154.04	94.16
10.534	10.534	0.000	777631	0.50000	0.4912	115.64- 155.64	85.27
11.096	11.096	0.000	1116547	0.50000	0.4864	52.78- 92.78	122.44
11.199	11.199	0.000	976273	0.50000	0.4605	69.36- 109.36	107.06
		Average of Peak Amounts =			0.48296		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\014F1401.D

Page 1

Date : 15-MAR-2010 13:28

Client ID:

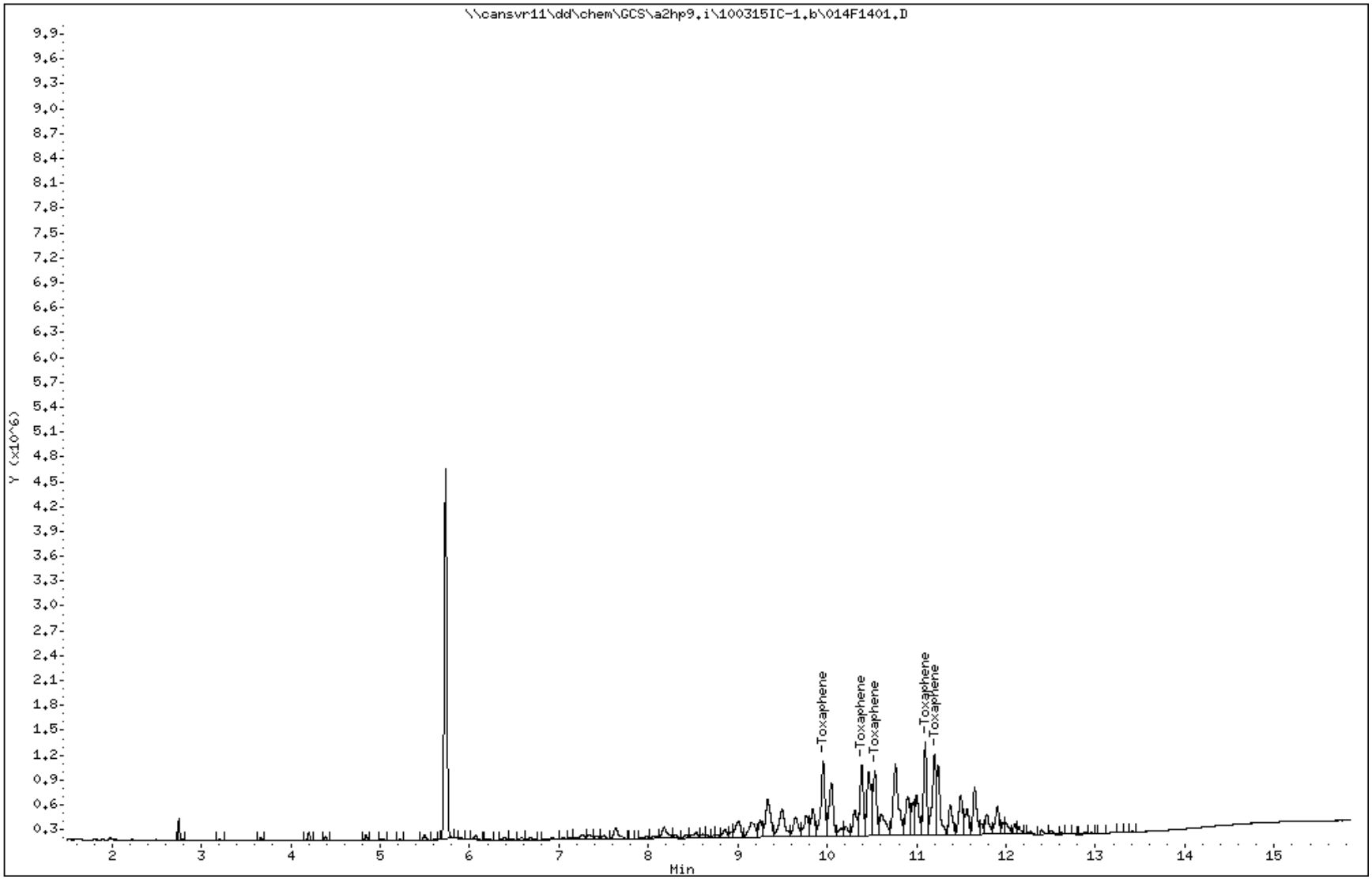
Instrument: a2hp9.i

Sample Info: TOX2 G268,,1,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 13:28
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/014F1401.D
Lab Sample ID: TOX2 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.955	2731889	0.497	0.497

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\015F1501.D
Lab Smp Id: TOX3 G268
Inj Date : 15-MAR-2010 13:52
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,1,3
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 14:05 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:52 Cal File: 015F1501.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.954	9.954	0.000	1910286	1.00000	1.020	80.00- 120.00	100.00
10.386	10.386	0.000	1822560	1.00000	1.009	114.04- 154.04	95.41
10.534	10.534	0.000	1594703	1.00000	0.9956	115.64- 155.64	83.48
11.096	11.096	0.000	2252294	1.00000	0.9744	52.78- 92.78	117.90
11.199	11.199	0.000	2040984	1.00000	0.9677	69.36- 109.36	106.84
		Average of Peak Amounts =			0.99334		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\015F1501.D

Page 1

Date : 15-MAR-2010 13:52

Client ID:

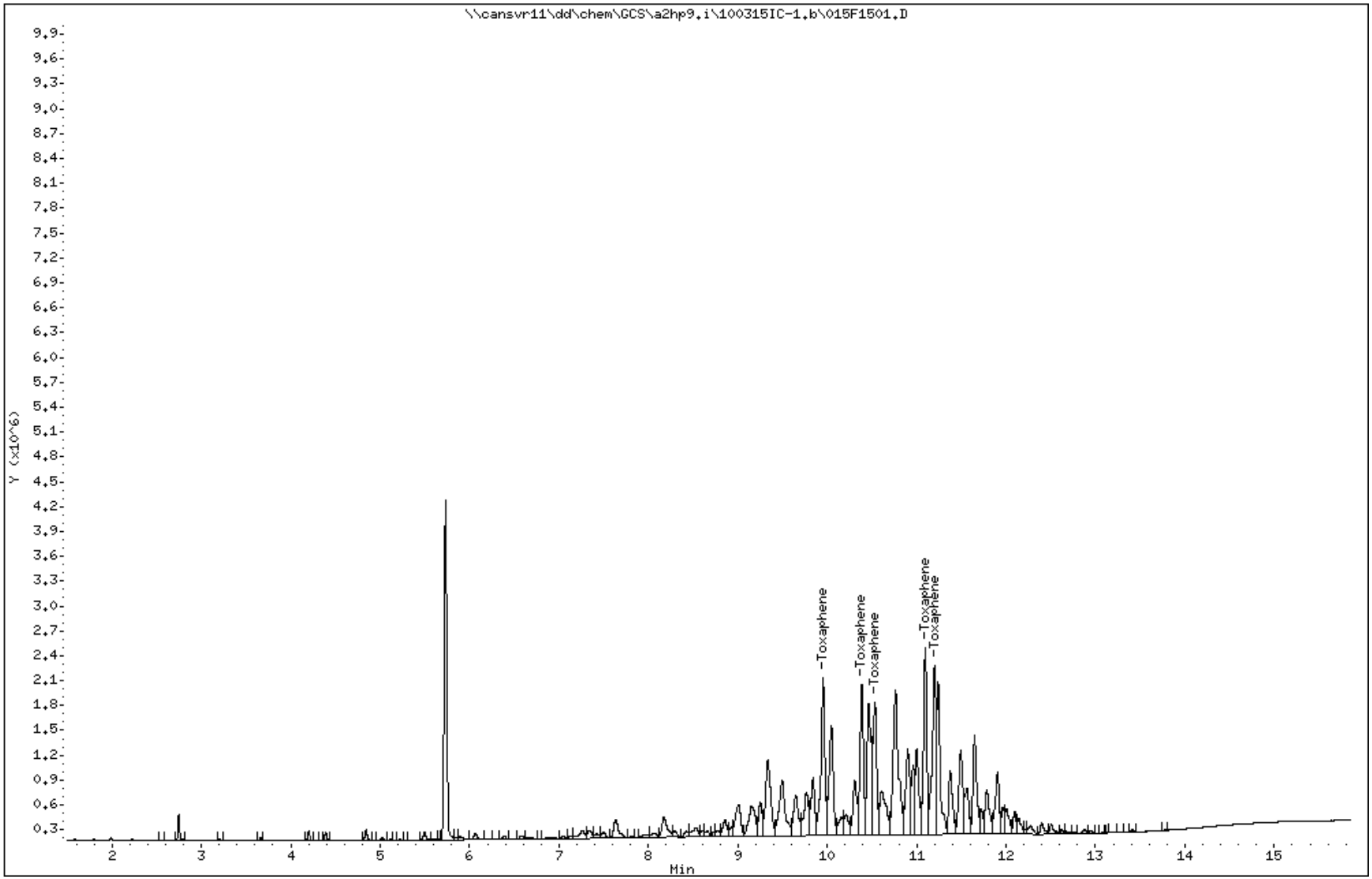
Instrument: a2hp9.i

Sample Info: TOX3 G268,,1,3

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 13:52
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/015F1501.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.954	5714853	1.020	1.020

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D
Lab Smp Id: TOX4 G268
Inj Date : 15-MAR-2010 14:16
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX4 G268,,1,4
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:02 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.955	9.955	0.000	3976823	2.00000	2.090	80.00- 120.00	100.00(M)
10.386	10.386	0.000	3968771	2.00000	2.171	114.04- 154.04	99.80
10.534	10.534	0.000	3486912	2.00000	2.148	115.64- 155.64	87.68
11.096	11.096	0.000	4910305	2.00000	2.121	52.78- 92.78	123.47
11.199	11.199	0.000	4628450	2.00000	2.201	69.36- 109.36	116.39
		Average of Peak Amounts =			2.14620		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D

Page 1

Date : 15-MAR-2010 14:16

Client ID:

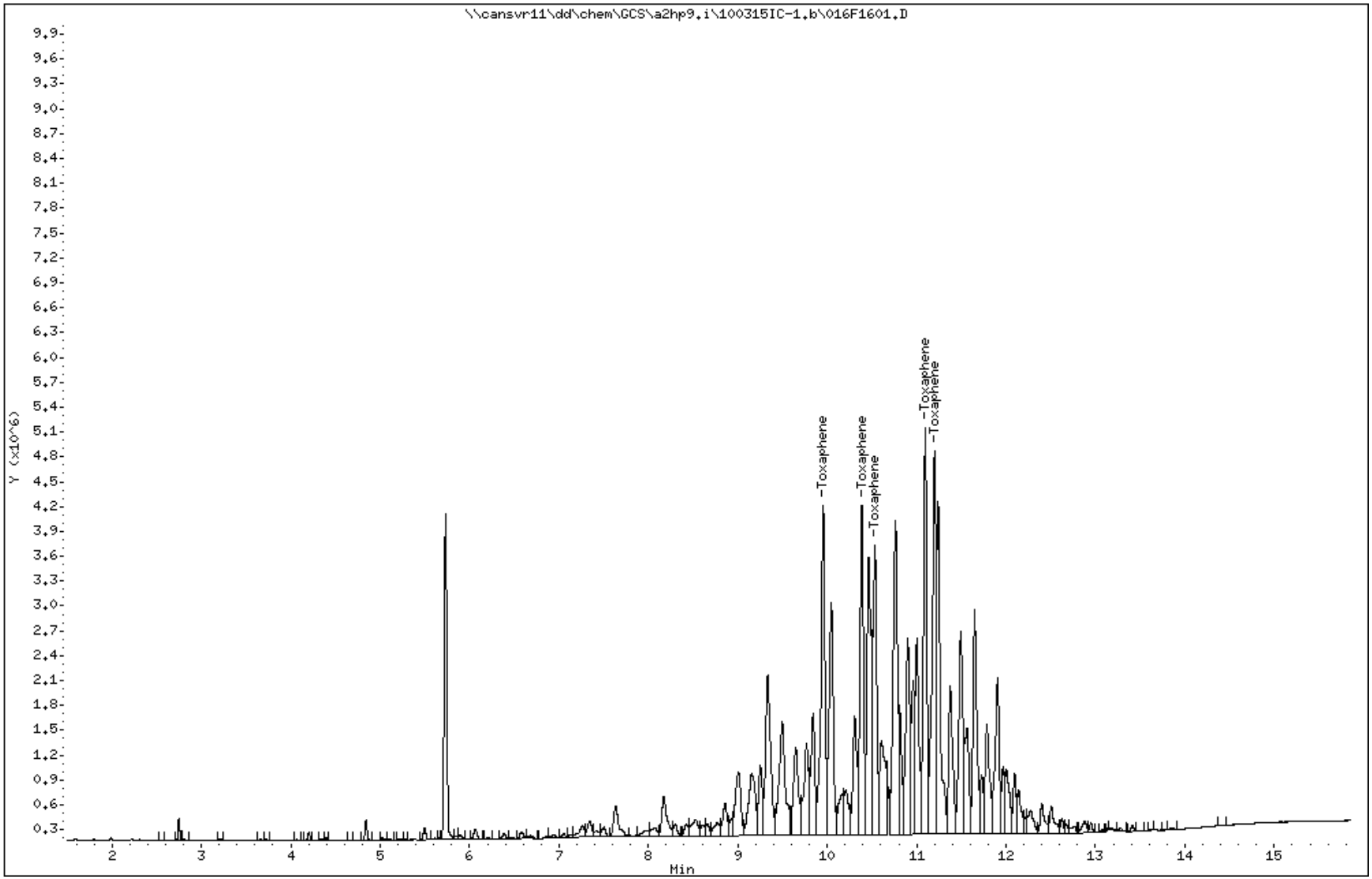
Instrument: a2hp9.i

Sample Info: TOX4 G268,,1,4

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

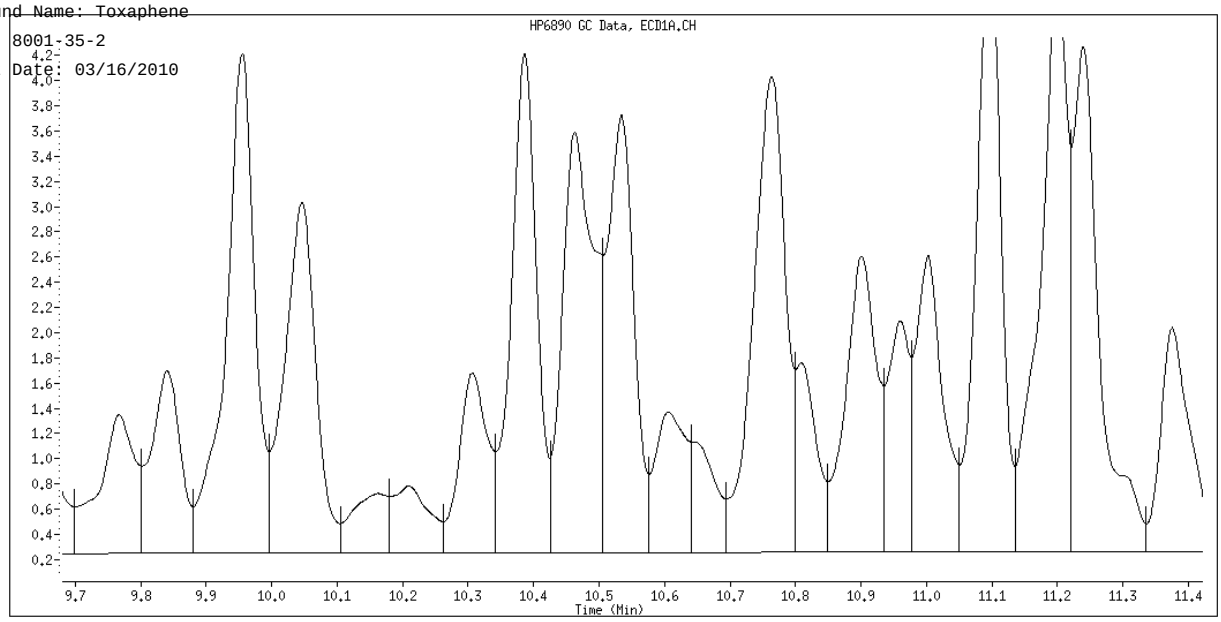


COMPOUNDS and EXP. RT REPORT

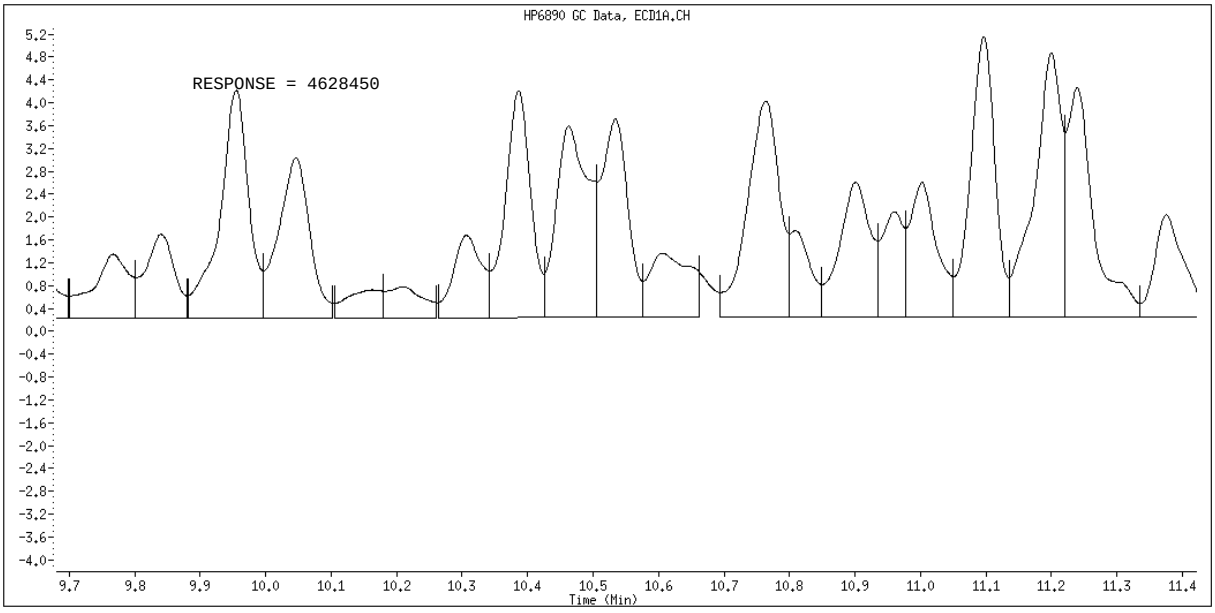
Operator: 093905 Date Acquired: 15-MAR-2010 14:16
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D
Lab Sample ID: TOX4 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.955	12326141	2.090	2.090

Data File Name: 016F1601.D
Inj. Date and Time: 15-MAR-2010 14:16
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

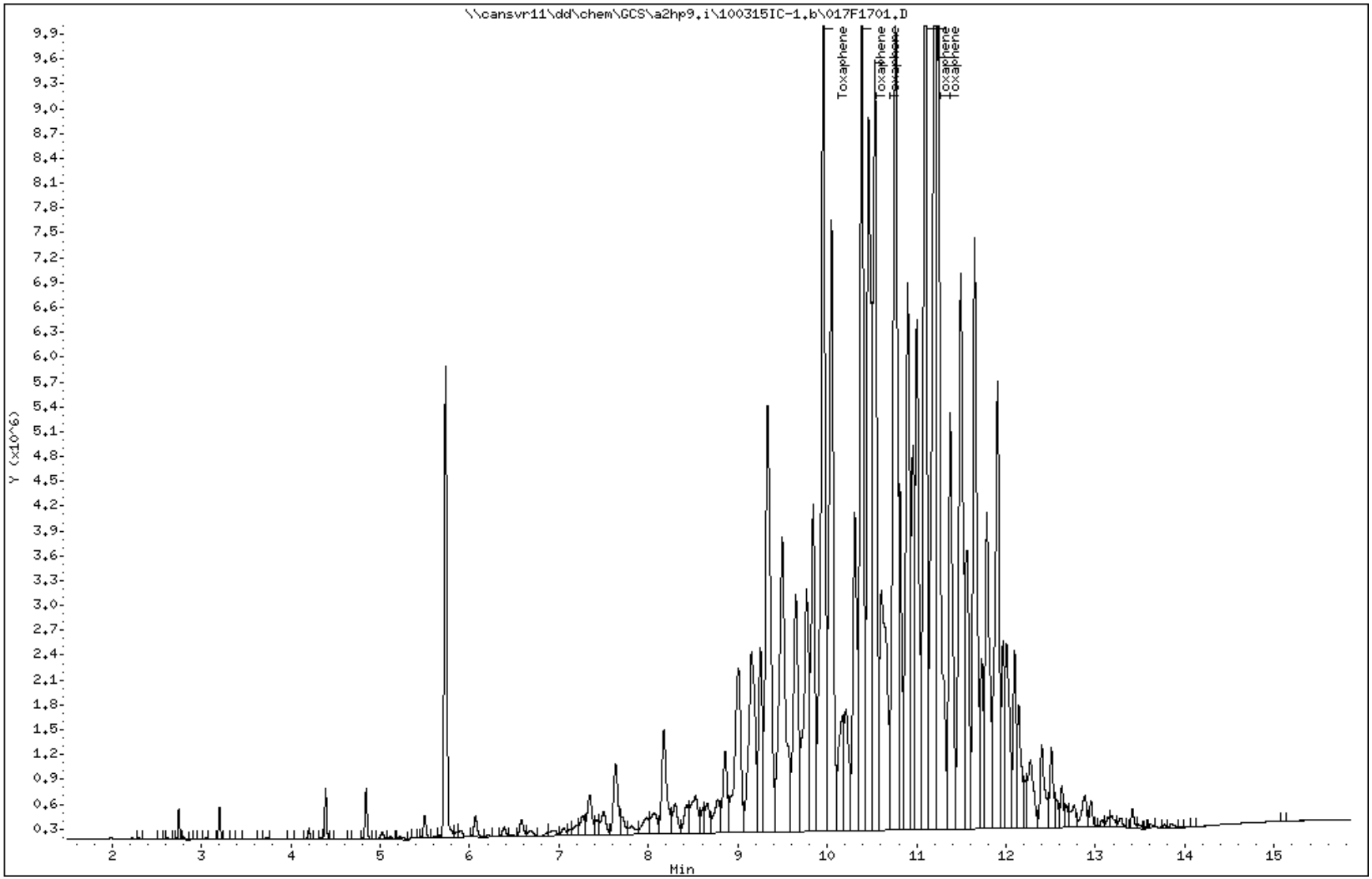
TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\017F1701.D
Lab Smp Id: TOX5 G268
Inj Date : 15-MAR-2010 14:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX5 G268,,1,5
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 14:54 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:41 Cal File: 017F1701.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.956	9.956	0.000	10556063	5.00000	5.704	80.00- 120.00	100.00
10.386	10.386	0.000	10641413	5.00000	6.057	114.04- 154.04	100.81
10.534	10.534	0.000	9299590	5.00000	5.986	115.64- 155.64	88.10
11.095	11.095	0.000	12952961	5.00000	5.687	52.78- 92.78	122.71
11.199	11.199	0.000	12633701	5.00000	6.111	69.36- 109.36	119.68
		Average of Peak Amounts =			5.90900		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\017F1701.D Page 1
Date : 15-MAR-2010 14:41
Client ID:
Sample Info: TOX5 G268,,1,5
Instrument: a2hp9.i
Operator: 093905
Column phase: clp pesticides I
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 14:41
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/017F1701.D
Lab Sample ID: TOX5 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.956	32638535	5.704	5.704

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\004F0401.D
Lab Smp Id: AB1 G250
Inj Date : 15-MAR-2010 09:30
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB1 G250,,1,1
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 09:43 Quant Type: ESTD
Cal Date : 09-MAR-2010 12:34 Cal File: 010F1001.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.368	0.000	242345	0.00500	0.005019		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	474051	0.00500	0.004442		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.941	5.941	0.000	451520	0.00500	0.004658		
6 beta-BHC						CAS #: 319-85-7	
6.148	6.148	0.000	263015	0.00500	0.006114		
7 delta-BHC						CAS #: 319-86-8	
6.803	6.803	0.000	436505	0.00500	0.004623		
8 Heptachlor						CAS #: 76-44-8	
6.918	6.918	0.000	463307	0.00500	0.005034		
10 Aldrin						CAS #: 309-00-2	
7.743	7.743	0.000	137857	0.00500	0.004591		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.089	9.089	0.000	400253	0.00500	0.004966		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.477	9.477	0.000	396586	0.00500	0.004939		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.762	9.762	0.000	395645	0.00500	0.005020		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.827    9.827    0.000          370462 0.00500  0.005034
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.170	10.170	0.000	152434	0.00500	0.004856		
17 Dieldrin					CAS #: 60-57-1		
10.324	10.324	0.000	365882	0.00500	0.004774		
18 Endrin					CAS #: 72-20-8		
10.826	10.826	0.000	336309	0.00500	0.004972		
21 4,4'-DDD					CAS #: 72-54-8		
11.143	11.143	0.000	137338	0.00500	0.005322		
22 Endosulfan II					CAS #: 33213-65-9		
11.186	11.186	0.000	164307	0.00500	0.005222		
24 4,4'-DDT					CAS #: 50-29-3		
11.625	11.625	0.000	110012	0.00500	0.004151		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.733	11.733	0.000	298287	0.00500	0.005707		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.154	12.154	0.000	153044	0.00500	0.005359		
27 Methoxychlor					CAS #: 72-43-5		
12.674	12.674	0.000	132299	0.00500	0.005015		
29 Endrin ketone					CAS #: 53494-70-5		
12.893	12.893	0.000	345018	0.00500	0.005076		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.645	14.645	0.000	355003	0.00500	0.005765		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\004F0401.D

Date : 15-MAR-2010 09:30

Client ID:

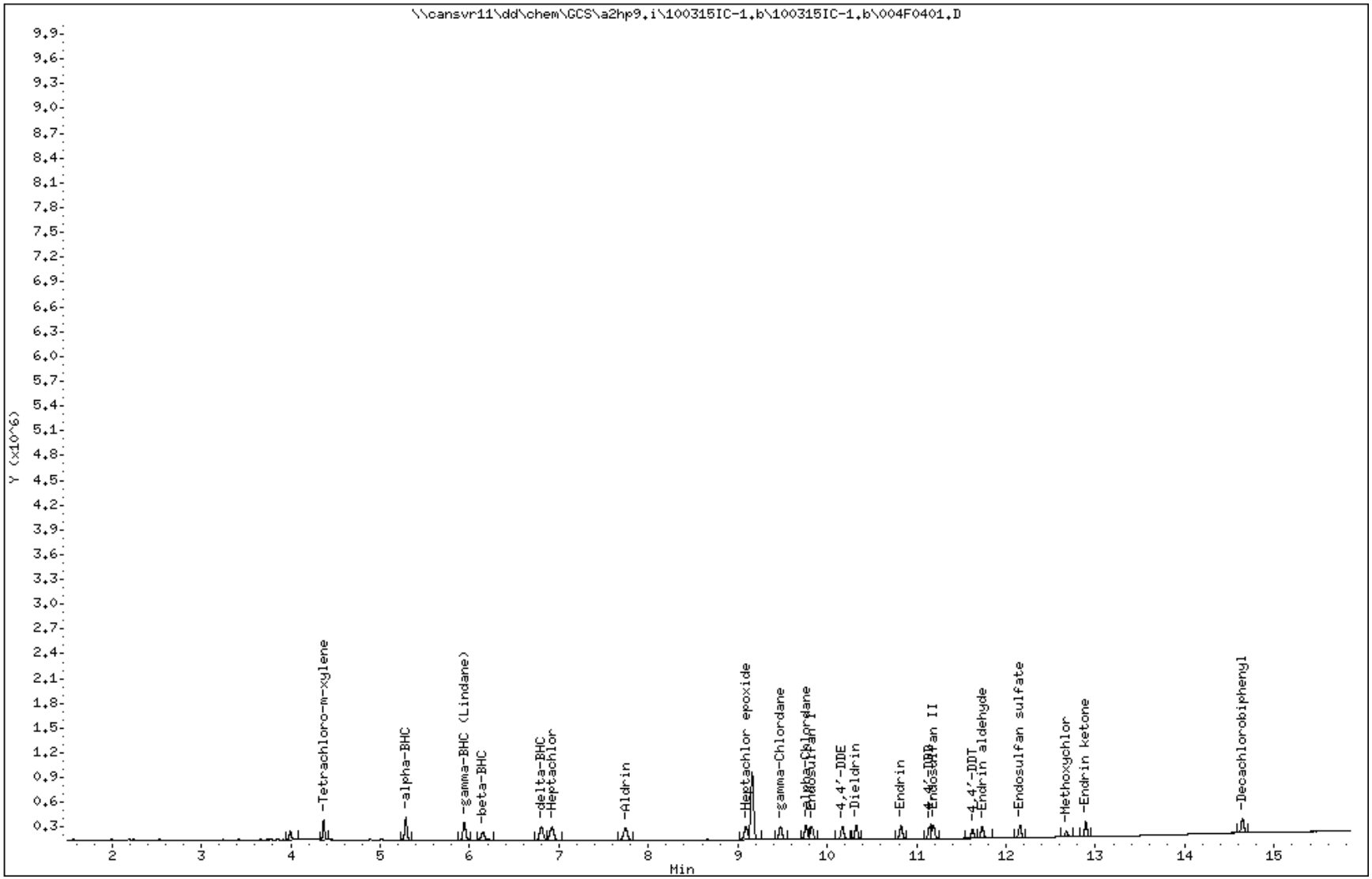
Instrument: a2hp9.i

Sample Info: AB1 G250,,1,1

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 09:30
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\004F0401.D
Lab Sample ID: AB1 G250
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.369	329938	0.005	0.005
4) alpha-BHC	5.286	474051	0.004	0.004
5) gamma-BHC (Lindane)	5.941	451520	0.005	0.005
6) beta-BHC	6.149	263015	0.006	0.006
7) delta-BHC	6.803	436505	0.005	0.005
8) Heptachlor	6.919	463307	0.005	0.005
10) Aldrin	7.744	431231	0.005	0.005
12) Heptachlor epoxide	9.090	400253	0.005	0.005
13) gamma-Chlordane	9.477	396586	0.005	0.005
14) alpha-Chlordane	9.762	395645	0.005	0.005
15) Endosulfan I	9.827	370462	0.005	0.005
16) 4,4'-DDE	10.171	352306	0.005	0.005
17) Dieldrin	10.325	365882	0.005	0.005
18) Endrin	10.826	336309	0.005	0.005
21) 4,4'-DDD	11.143	280014	0.005	0.005
22) Endosulfan II	11.186	352875	0.005	0.005
24) 4,4'-DDT	11.626	227367	0.004	0.004
25) Endrin aldehyde	11.733	298287	0.006	0.006
26) Endosulfan sulfate	12.155	307400	0.005	0.005
27) Methoxychlor	12.675	132299	0.005	0.005
29) Endrin ketone	12.893	345018	0.005	0.005
30) Decachlorobiphenyl	14.646	355003	0.006	0.006

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\005F0501.D
Lab Smp Id: AB2 G251
Inj Date : 15-MAR-2010 09:54
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB2 G251,,1,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 10:07 Quant Type: ESTD
Cal Date : 09-MAR-2010 12:58 Cal File: 011F1101.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.368	0.000	487437	0.01000	0.01000		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	989931	0.01000	0.009211		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.940	5.940	0.000	922224	0.01000	0.009444		
6 beta-BHC						CAS #: 319-85-7	
6.146	6.146	0.000	479849	0.01000	0.01087		
7 delta-BHC						CAS #: 319-86-8	
6.800	6.800	0.000	887232	0.01000	0.009294		
8 Heptachlor						CAS #: 76-44-8	
6.918	6.918	0.000	911108	0.01000	0.009834		
10 Aldrin						CAS #: 309-00-2	
7.743	7.743	0.000	281608	0.01000	0.009340		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.089	9.089	0.000	784495	0.01000	0.009706		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.477	9.477	0.000	773709	0.01000	0.009586		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.763	9.763	0.000	767535	0.01000	0.009696		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.827    9.827    0.000          724239 0.01000  0.009789
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.169	10.169	0.000	303738	0.01000	0.009549		
17 Dieldrin					CAS #: 60-57-1		
10.324	10.324	0.000	719639	0.01000	0.009350		
18 Endrin					CAS #: 72-20-8		
10.826	10.826	0.000	657917	0.01000	0.009630		
21 4,4'-DDD					CAS #: 72-54-8		
11.143	11.143	0.000	271743	0.01000	0.01021		
22 Endosulfan II					CAS #: 33213-65-9		
11.186	11.186	0.000	307074	0.01000	0.009669		
24 4,4'-DDT					CAS #: 50-29-3		
11.624	11.624	0.000	225777	0.01000	0.008632		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.733	11.733	0.000	527900	0.01000	0.009978		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.154	12.154	0.000	287031	0.01000	0.009913		
27 Methoxychlor					CAS #: 72-43-5		
12.674	12.674	0.000	254956	0.01000	0.009680		
29 Endrin ketone					CAS #: 53494-70-5		
12.893	12.893	0.000	677535	0.01000	0.009931		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.645	14.645	0.000	673935	0.01000	0.01080		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\005F0501.D

Page 1

Date : 15-MAR-2010 09:54

Client ID:

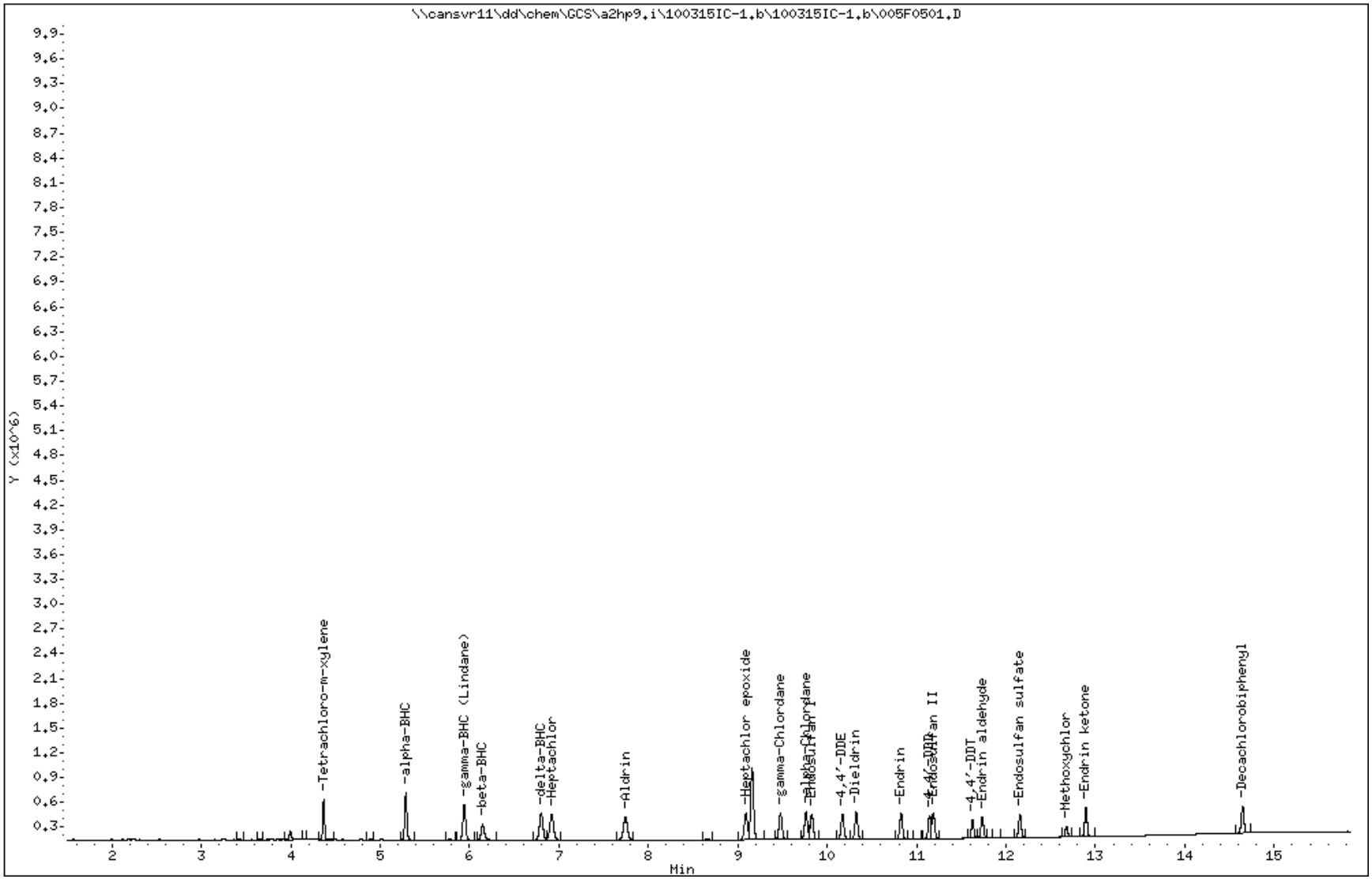
Instrument: a2hp9.i

Sample Info: AB2 G251,,1,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 09:54
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\005F0501.D
Lab Sample ID: AB2 G251
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.368	667616	0.010	0.010
4) alpha-BHC	5.286	989931	0.009	0.009
5) gamma-BHC (Lindane)	5.941	922224	0.009	0.009
6) beta-BHC	6.146	479849	0.011	0.011
7) delta-BHC	6.801	887232	0.009	0.009
8) Heptachlor	6.918	911108	0.010	0.010
10) Aldrin	7.743	863596	0.009	0.009
12) Heptachlor epoxide	9.090	784495	0.010	0.010
13) gamma-Chlordane	9.477	773709	0.010	0.010
14) alpha-Chlordane	9.763	767535	0.010	0.010
15) Endosulfan I	9.827	724239	0.010	0.010
16) 4,4'-DDE	10.170	686603	0.010	0.010
17) Dieldrin	10.325	719639	0.009	0.009
18) Endrin	10.826	657917	0.010	0.010
21) 4,4'-DDD	11.143	547556	0.010	0.010
22) Endosulfan II	11.186	666773	0.010	0.010
24) 4,4'-DDT	11.625	444347	0.009	0.009
25) Endrin aldehyde	11.733	527900	0.010	0.010
26) Endosulfan sulfate	12.155	578251	0.010	0.010
27) Methoxychlor	12.675	254956	0.010	0.010
29) Endrin ketone	12.893	677535	0.010	0.010
30) Decachlorobiphenyl	14.646	673935	0.011	0.011

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\006F0601.D
Lab Smp Id: AB3 G252
Inj Date : 15-MAR-2010 10:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,1,3
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 10:30 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:23 Cal File: 012F1201.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.368	0.000	1195103	0.02500	0.02454		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	2614256	0.02500	0.02434		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.941	5.941	0.000	2374553	0.02500	0.02430		
6 beta-BHC						CAS #: 319-85-7	
6.146	6.146	0.000	1067470	0.02500	0.02411		
7 delta-BHC						CAS #: 319-86-8	
6.801	6.801	0.000	2355939	0.02500	0.02454		
8 Heptachlor						CAS #: 76-44-8	
6.919	6.919	0.000	2304835	0.02500	0.02480		
10 Aldrin						CAS #: 309-00-2	
7.743	7.743	0.000	729079	0.02500	0.02425		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.091	9.091	0.000	1967154	0.02500	0.02437		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.477	9.477	0.000	1951849	0.02500	0.02417		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.762	9.762	0.000	1917791	0.02500	0.02423		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.826    9.826    0.000         1797884 0.02500  0.02432
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.170	10.170	0.000	795938	0.02500	0.02485		
17 Dieldrin					CAS #: 60-57-1		
10.324	10.324	0.000	1839346	0.02500	0.02400		
18 Endrin					CAS #: 72-20-8		
10.826	10.826	0.000	1700899	0.02500	0.02479		
21 4,4'-DDD					CAS #: 72-54-8		
11.142	11.142	0.000	710963	0.02500	0.02611		
22 Endosulfan II					CAS #: 33213-65-9		
11.185	11.185	0.000	782175	0.02500	0.02456		
24 4,4'-DDT					CAS #: 50-29-3		
11.624	11.624	0.000	599033	0.02500	0.02328		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.732	11.732	0.000	1311589	0.02500	0.02467		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.155	12.155	0.000	718991	0.02500	0.02467		
27 Methoxychlor					CAS #: 72-43-5		
12.674	12.674	0.000	641915	0.02500	0.02465		
29 Endrin ketone					CAS #: 53494-70-5		
12.892	12.892	0.000	1690046	0.02500	0.02484		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.645	14.645	0.000	1576215	0.02500	0.02522		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\006F0601.D

Date : 15-MAR-2010 10:17

Client ID:

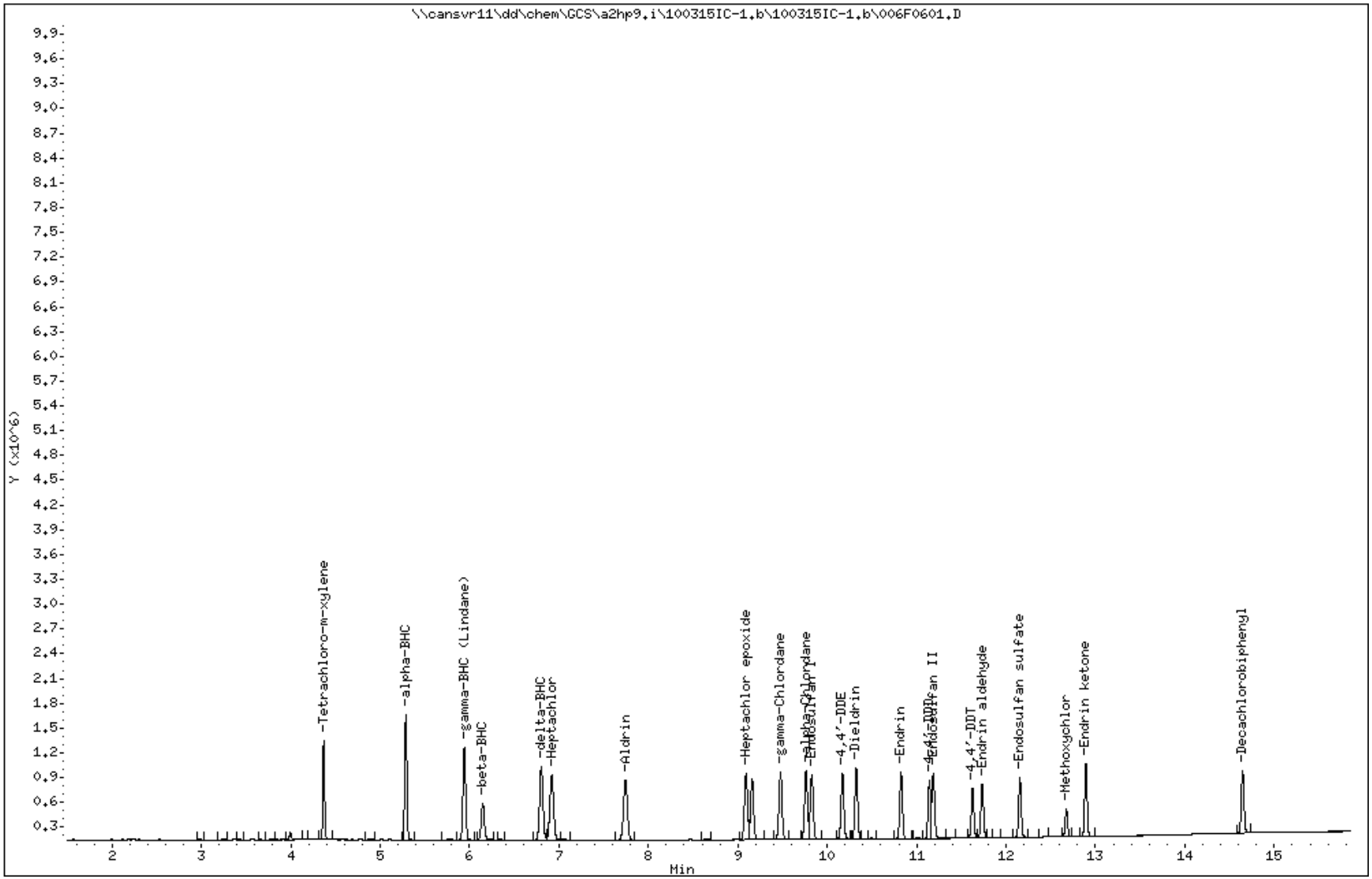
Instrument: a2hp9.i

Sample Info: AB3 G252,,1,3

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 10:17
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\006F0601.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.369	1611628	0.025	0.025
4) alpha-BHC	5.286	2614256	0.024	0.024
5) gamma-BHC (Lindane)	5.941	2374553	0.024	0.024
6) beta-BHC	6.147	1067470	0.024	0.024
7) delta-BHC	6.802	2355939	0.025	0.025
8) Heptachlor	6.919	2304835	0.025	0.025
10) Aldrin	7.744	2183145	0.024	0.024
12) Heptachlor epoxide	9.091	1967154	0.024	0.024
13) gamma-Chlordane	9.478	1951849	0.024	0.024
14) alpha-Chlordane	9.763	1917791	0.024	0.024
15) Endosulfan I	9.827	1797884	0.024	0.024
16) 4,4'-DDE	10.170	1755385	0.025	0.025
17) Dieldrin	10.324	1839346	0.024	0.024
18) Endrin	10.826	1700899	0.025	0.025
21) 4,4'-DDD	11.143	1417559	0.026	0.026
22) Endosulfan II	11.185	1690669	0.025	0.025
24) 4,4'-DDT	11.624	1186338	0.023	0.023
25) Endrin aldehyde	11.733	1311589	0.025	0.025
26) Endosulfan sulfate	12.155	1449719	0.025	0.025
27) Methoxychlor	12.674	641915	0.025	0.025
29) Endrin ketone	12.893	1690046	0.025	0.025
30) Decachlorobiphenyl	14.645	1576215	0.025	0.025

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\007F0701.D
Lab Smp Id: AB4 G253
Inj Date : 15-MAR-2010 10:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB4 G253,,1,4
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 10:54 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.368	4.368	0.000	2574986	0.05000	0.05213		
4 alpha-BHC					CAS #: 319-84-6		
5.286	5.286	0.000	5877703	0.05000	0.05397		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.941	5.941	0.000	5281200	0.05000	0.05329		
6 beta-BHC					CAS #: 319-85-7		
6.146	6.146	0.000	2186433	0.05000	0.04872		
7 delta-BHC					CAS #: 319-86-8		
6.802	6.802	0.000	5266795	0.05000	0.05392		
8 Heptachlor					CAS #: 76-44-8		
6.919	6.919	0.000	5004287	0.05000	0.05289		
10 Aldrin					CAS #: 309-00-2		
7.744	7.744	0.000	1624910	0.05000	0.05340		
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.091	9.091	0.000	4239244	0.05000	0.05203		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.477	9.477	0.000	4223574	0.05000	0.05180		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.762	9.762	0.000	4086294	0.05000	0.05119		

```
   15 Endosulfan I                               CAS #: 959-98-8
9.827    9.827    0.000         3847500 0.05000  0.05162
-------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
10.169	10.169	0.000	1742413	0.05000	0.05356		
17 Dieldrin						CAS #: 60-57-1	
10.324	10.324	0.000	4021333	0.05000	0.05224		
18 Endrin						CAS #: 72-20-8	
10.825	10.825	0.000	3649759	0.05000	0.05257		
21 4,4'-DDD						CAS #: 72-54-8	
11.142	11.142	0.000	1535619	0.05000	0.05477		
22 Endosulfan II						CAS #: 33213-65-9	
11.185	11.185	0.000	1660823	0.05000	0.05181		
24 4,4'-DDT						CAS #: 50-29-3	
11.625	11.625	0.000	1324579	0.05000	0.05191		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.732	11.732	0.000	2676074	0.05000	0.05009		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.154	12.154	0.000	1510005	0.05000	0.05133		
27 Methoxychlor						CAS #: 72-43-5	
12.674	12.674	0.000	1341844	0.05000	0.05156		
29 Endrin ketone						CAS #: 53494-70-5	
12.892	12.892	0.000	3550988	0.05000	0.05186		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.644	14.644	0.000	3171870	0.05000	0.05041		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\007F0701.D

Page 1

Date : 15-MAR-2010 10:41

Client ID:

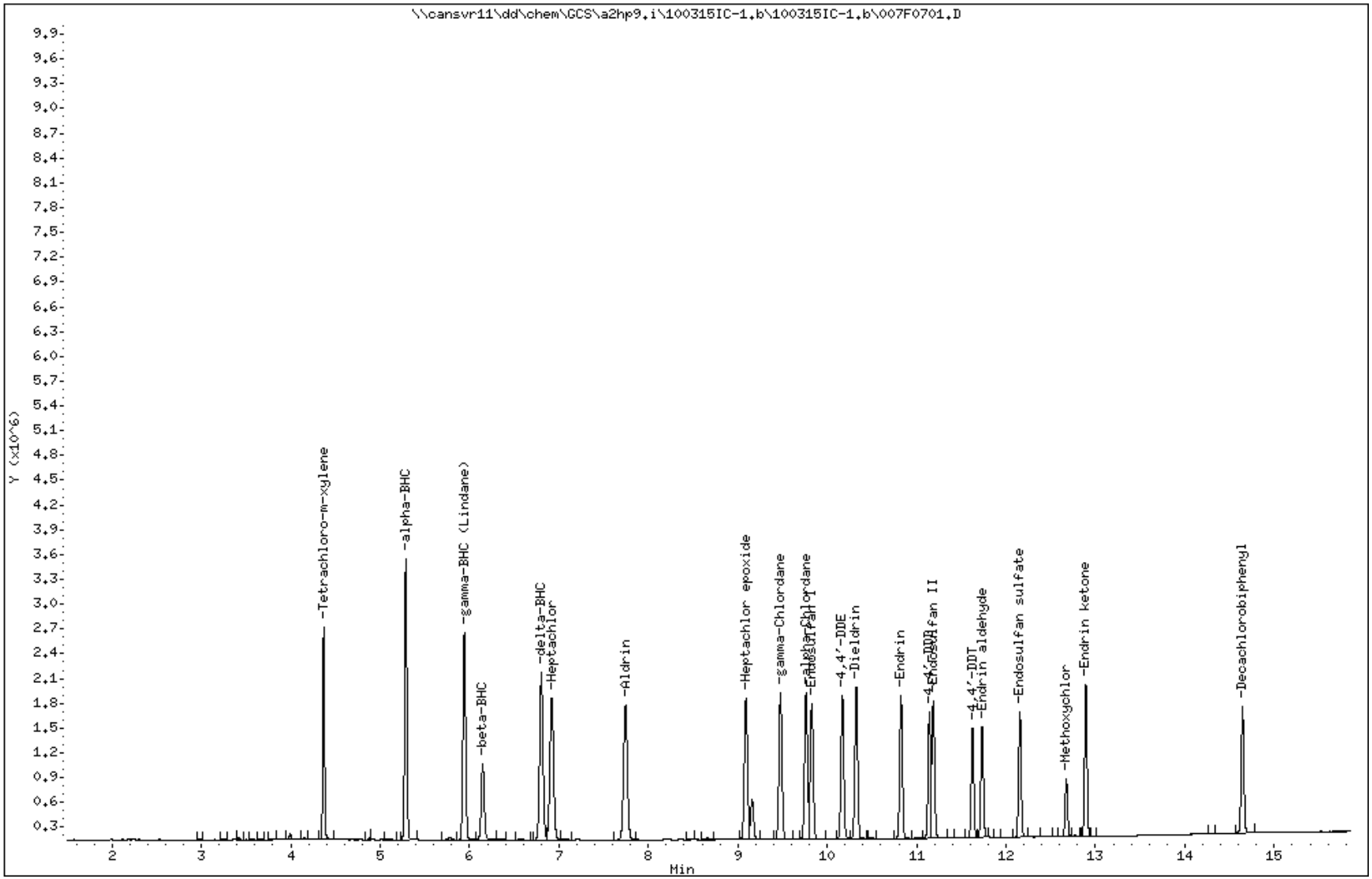
Instrument: a2hp9.i

Sample Info: AB4 G253,,1,4

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 10:41
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\007F0701.D
Lab Sample ID: AB4 G253
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.368	3453667	0.052	0.052
4) alpha-BHC	5.287	5877703	0.054	0.054
5) gamma-BHC (Lindane)	5.942	5281200	0.053	0.053
6) beta-BHC	6.147	2186433	0.049	0.049
7) delta-BHC	6.802	5266795	0.054	0.054
8) Heptachlor	6.919	5004287	0.053	0.053
10) Aldrin	7.744	4816282	0.053	0.053
12) Heptachlor epoxide	9.092	4239244	0.052	0.052
13) gamma-Chlordane	9.477	4223574	0.052	0.052
14) alpha-Chlordane	9.762	4086294	0.051	0.051
15) Endosulfan I	9.827	3847500	0.052	0.052
16) 4,4'-DDE	10.169	3790234	0.054	0.054
17) Dieldrin	10.325	4021333	0.052	0.052
18) Endrin	10.826	3649759	0.053	0.053
21) 4,4'-DDD	11.142	3065087	0.055	0.055
22) Endosulfan II	11.186	3532078	0.052	0.052
24) 4,4'-DDT	11.626	2600779	0.052	0.052
25) Endrin aldehyde	11.732	2676074	0.050	0.050
26) Endosulfan sulfate	12.155	3012354	0.051	0.051
27) Methoxychlor	12.674	1341844	0.052	0.052
29) Endrin ketone	12.892	3550988	0.052	0.052
30) Decachlorobiphenyl	14.645	3171870	0.050	0.050

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\008F0801.D
Lab Smp Id: AB5 G254
Inj Date : 15-MAR-2010 11:05
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB5 G254,,1,5
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 11:18 Quant Type: ESTD
Cal Date : 09-MAR-2010 14:13 Cal File: 014F1401.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.368	0.000	4785302	0.10000	0.09745		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	11218121	0.10000	0.1037		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.940	5.940	0.000	10074719	0.10000	0.1021		
6 beta-BHC						CAS #: 319-85-7	
6.145	6.145	0.000	4023559	0.10000	0.08979		
7 delta-BHC						CAS #: 319-86-8	
6.800	6.800	0.000	10307341	0.10000	0.1053		
8 Heptachlor						CAS #: 76-44-8	
6.917	6.917	0.000	9439038	0.10000	0.09974		
10 Aldrin						CAS #: 309-00-2	
7.742	7.742	0.000	3054309	0.10000	0.1012		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.090	9.090	0.000	8068162	0.10000	0.09934		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.475	9.475	0.000	8136289	0.10000	0.1000		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.762	9.762	0.000	7835757	0.10000	0.09858		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.826    9.826    0.000         7383216 0.10000  0.09918
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RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
10.168	10.168	0.000	3393444	0.10000	0.1036		
17 Dieldrin						CAS #: 60-57-1	
10.323	10.323	0.000	7873811	0.10000	0.1023		
18 Endrin						CAS #: 72-20-8	
10.824	10.824	0.000	7158342	0.10000	0.1024		
21 4,4'-DDD						CAS #: 72-54-8	
11.141	11.141	0.000	3050082	0.10000	0.1058		
22 Endosulfan II						CAS #: 33213-65-9	
11.185	11.185	0.000	3217600	0.10000	0.09980		
24 4,4'-DDT						CAS #: 50-29-3	
11.624	11.624	0.000	2704445	0.10000	0.1064		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.730	11.730	0.000	5274960	0.10000	0.09775		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.154	12.154	0.000	2976736	0.10000	0.1001		
27 Methoxychlor						CAS #: 72-43-5	
12.672	12.672	0.000	2611240	0.10000	0.09964		
29 Endrin ketone						CAS #: 53494-70-5	
12.892	12.892	0.000	6937871	0.10000	0.1004		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.645	14.645	0.000	5974908	0.10000	0.09387		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\008F0801.D

Page 1

Date : 15-MAR-2010 11:05

Client ID:

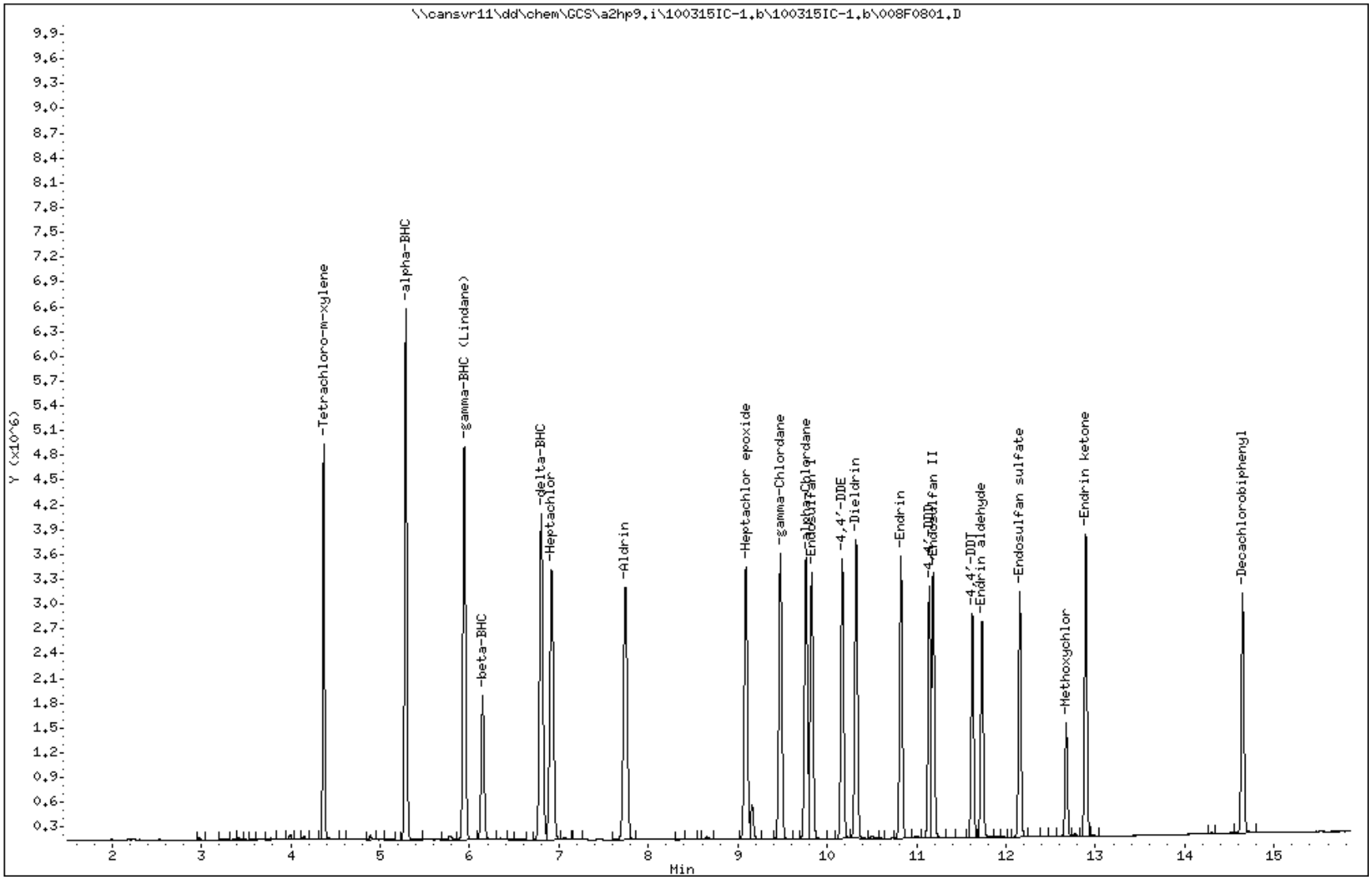
Instrument: a2hp9.i

Sample Info: AB5 G254,,1,5

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 11:05
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\008F0801.D
Lab Sample ID: AB5 G254
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.368	6422794	0.097	0.097
4) alpha-BHC	5.287	11218121	0.104	0.104
5) gamma-BHC (Lindane)	5.940	10074719	0.102	0.102
6) beta-BHC	6.146	4023559	0.090	0.090
7) delta-BHC	6.801	10307341	0.105	0.105
8) Heptachlor	6.918	9439038	0.100	0.100
10) Aldrin	7.743	9182310	0.101	0.101
12) Heptachlor epoxide	9.090	8068162	0.099	0.099
13) gamma-Chlordane	9.476	8136289	0.100	0.100
14) alpha-Chlordane	9.763	7835757	0.099	0.099
15) Endosulfan I	9.827	7383216	0.099	0.099
16) 4,4'-DDE	10.168	7419689	0.104	0.104
17) Dieldrin	10.323	7873811	0.102	0.102
18) Endrin	10.824	7158342	0.102	0.102
21) 4,4'-DDD	11.142	6080290	0.106	0.106
22) Endosulfan II	11.185	6786904	0.100	0.100
24) 4,4'-DDT	11.624	5288913	0.106	0.106
25) Endrin aldehyde	11.731	5274960	0.098	0.098
26) Endosulfan sulfate	12.154	5857202	0.100	0.100
27) Methoxychlor	12.673	2611240	0.100	0.100
29) Endrin ketone	12.893	6937871	0.100	0.100
30) Decachlorobiphenyl	14.646	5974908	0.094	0.094

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D
Lab Smp Id: AB6 G255
Inj Date : 15-MAR-2010 11:29
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB6 G255,,1,6
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 11:42 Quant Type: ESTD
Cal Date : 15-MAR-2010 11:29 Cal File: 009F0901.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.367	4.367	0.000	9806599	0.20000	0.2005		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	23583059	0.20000	0.2190		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.939	5.939	0.000	21241571	0.20000	0.2160		
6 beta-BHC						CAS #: 319-85-7	
6.145	6.145	0.000	8319010	0.20000	0.1857		
7 delta-BHC						CAS #: 319-86-8	
6.800	6.800	0.000	21934844	0.20000	0.2237		
8 Heptachlor						CAS #: 76-44-8	
6.917	6.917	0.000	19840292	0.20000	0.2090		
10 Aldrin						CAS #: 309-00-2	
7.741	7.741	0.000	6429570	0.20000	0.2142		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.090	9.090	0.000	16793431	0.20000	0.2071		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.476	9.476	0.000	17260480	0.20000	0.2127		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.762	9.762	0.000	16516913	0.20000	0.2085		

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   15 Endosulfan I                                CAS #: 959-98-8
9.826    9.826    0.000        15374109 0.20000   0.2068
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.169	10.169	0.000	7320037	0.20000	0.2217		
17 Dieldrin					CAS #: 60-57-1		
10.325	10.325	0.000	16607229	0.20000	0.2162		
18 Endrin					CAS #: 72-20-8		
10.826	10.826	0.000	15162997	0.20000	0.2158		
21 4,4'-DDD					CAS #: 72-54-8		
11.141	11.141	0.000	6501537	0.20000	0.2206		
22 Endosulfan II					CAS #: 33213-65-9		
11.186	11.186	0.000	6715071	0.20000	0.2079		
24 4,4'-DDT					CAS #: 50-29-3		
11.626	11.626	0.000	6108641	0.20000	0.2401		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.732	11.732	0.000	10874444	0.20000	0.2004		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.156	12.156	0.000	6370896	0.20000	0.2125		
27 Methoxychlor					CAS #: 72-43-5		
12.674	12.674	0.000	5590910	0.20000	0.2116		
29 Endrin ketone					CAS #: 53494-70-5		
12.893	12.893	0.000	14586901	0.20000	0.2095		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.646	14.646	0.000	12014880	0.20000	0.1874		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D

Page 1

Date : 15-MAR-2010 11:29

Client ID:

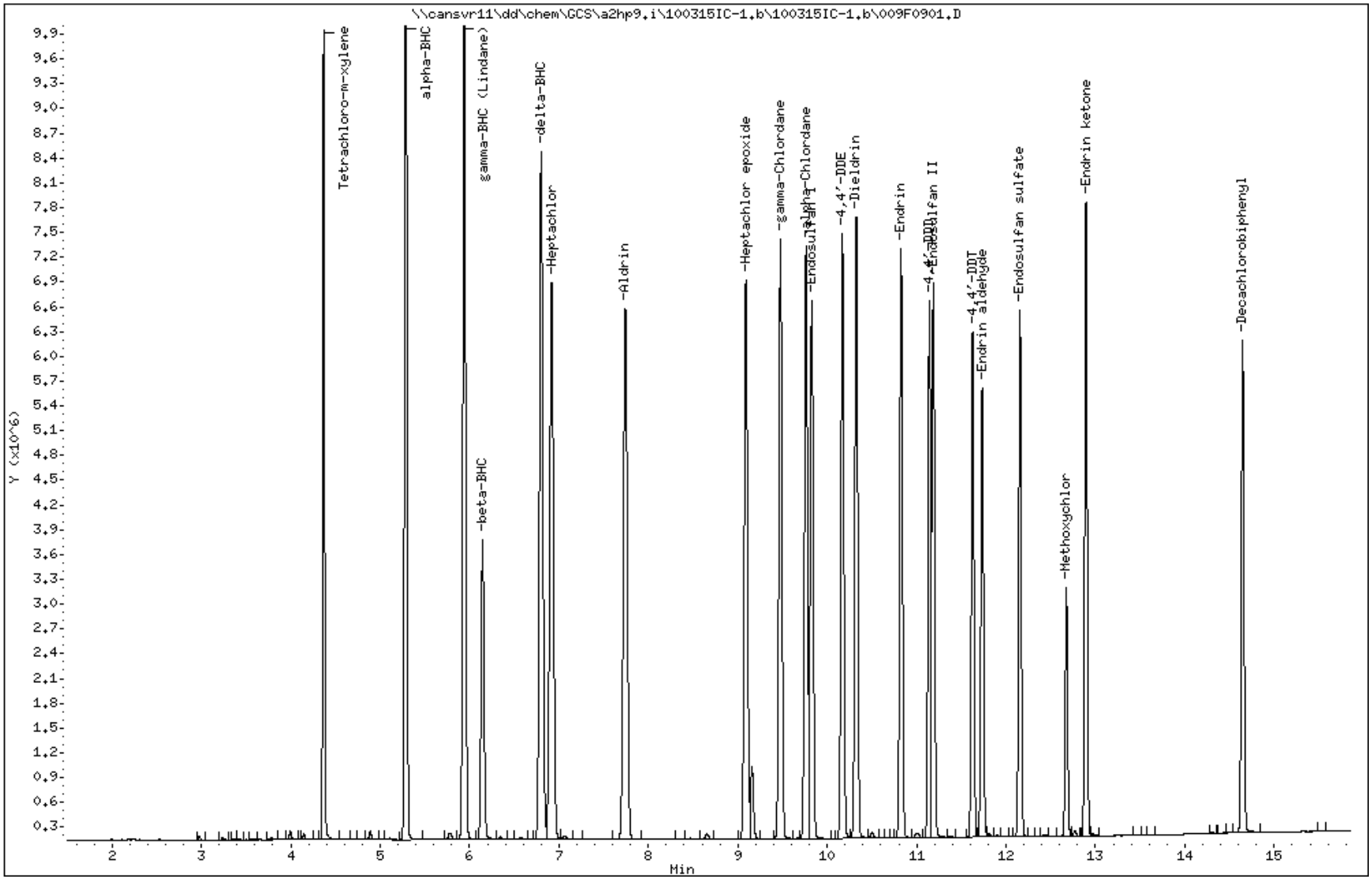
Instrument: a2hp9.i

Sample Info: AB6 G255,,1,6

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 11:29
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D
Lab Sample ID: AB6 G255
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.368	13201633	0.201	0.201
4) alpha-BHC	5.286	23583059	0.219	0.219
5) gamma-BHC (Lindane)	5.939	21241571	0.216	0.216
6) beta-BHC	6.145	8319010	0.186	0.186
7) delta-BHC	6.800	21934844	0.224	0.224
8) Heptachlor	6.918	19840292	0.209	0.209
10) Aldrin	7.742	19468449	0.214	0.214
12) Heptachlor epoxide	9.090	16793431	0.207	0.207
13) gamma-Chlordane	9.476	17260480	0.213	0.213
14) alpha-Chlordane	9.763	16516913	0.209	0.209
15) Endosulfan I	9.826	15374109	0.207	0.207
16) 4,4'-DDE	10.169	15938753	0.222	0.222
17) Dieldrin	10.325	16607229	0.216	0.216
18) Endrin	10.826	15162997	0.216	0.216
21) 4,4'-DDD	11.142	12945811	0.221	0.221
22) Endosulfan II	11.186	14150809	0.208	0.208
24) 4,4'-DDT	11.626	11903508	0.240	0.240
25) Endrin aldehyde	11.733	10874444	0.200	0.200
26) Endosulfan sulfate	12.156	12373142	0.212	0.212
27) Methoxychlor	12.674	5590910	0.212	0.212
29) Endrin ketone	12.894	14586901	0.210	0.210
30) Decachlorobiphenyl	14.646	12014880	0.187	0.187

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 12:40
Lab File ID: 012F1201.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 11:29
Lab Sample ID: ICV Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	48900426	++++	++++	0.000	++++	15.00000	Averaged	<-
4 alpha-BHC	107670684	110639120	110639120	0.010	-2.75696	15.00000	Averaged	
5 gamma-BHC (Lindane)	98347928	98982320	98982320	0.010	-0.64505	15.00000	Averaged	
6 beta-BHC	18332186	18778840	18778840	0.010	-2.43645	15.00000	Averaged	
7 delta-BHC	98057548	100640840	100640840	0.010	-2.63446	15.00000	Averaged	
8 Heptachlor	94940530	96552040	96552040	0.010	-1.69739	15.00000	Averaged	
10 Aldrin	30014083	30762880	30762880	0.010	-2.49482	15.00000	Averaged	
12 Heptachlor epoxide	81103319	83854480	83854480	0.010	-3.39217	15.00000	Averaged	
13 gamma-Chlordane	81149805	83225280	83225280	0.010	-2.55758	15.00000	Averaged	
14 alpha-Chlordane	79210359	81318080	81318080	0.010	-2.66092	15.00000	Averaged	
15 Endosulfan I	74347394	76775280	76775280	0.010	-3.26560	15.00000	Averaged	
16 4,4'-DDE	33013501	33054920	33054920	0.010	-0.12546	15.00000	Averaged	
17 Dieldrin	76819176	78940080	78940080	0.010	-2.76090	15.00000	Averaged	
18 Endrin	70247174	72919680	72919680	0.010	-3.80443	15.00000	Averaged	
21 4,4'-DDD	29466884	31885320	31885320	0.010	-8.20730	15.00000	Averaged	
22 Endosulfan II	32303936	33561320	33561320	0.010	-3.89236	15.00000	Averaged	
24 4,4'-DDT	25436776	22685120	22685120	0.010	10.81763	15.00000	Averaged	
25 Endrin aldehyde	54259043	55150280	55150280	0.010	-1.64256	15.00000	Averaged	
26 Endosulfan sulfate	29982247	30889680	30889680	0.010	-3.02657	15.00000	Averaged	
27 Methoxychlor	26422638	25883920	25883920	0.010	2.03885	15.00000	Averaged	
29 Endrin ketone	69615319	68133720	68133720	0.010	2.12827	15.00000	Averaged	
$ 30 Decachlorobiphenyl	64117263	++++	0.00000	0.010	++++	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 3.14929
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\012F1201.D
Lab Smp Id: ICV
Inj Date : 15-MAR-2010 12:40
Operator : 093905 Inst ID: a2hp9.i
Smp Info : ICV
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 05:00 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 11:29 Cal File: 009F0901.D
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-ab.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
Peaks not detected for Quant. or Qual. signal(s).							
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.284	0.002	2765978	0.02500	0.02569		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.940	5.939	0.001	2474558	0.02500	0.02516		
6 beta-BHC						CAS #: 319-85-7	
6.146	6.144	0.002	469471	0.02500	0.02561		
7 delta-BHC						CAS #: 319-86-8	
6.800	6.798	0.002	2516021	0.02500	0.02566		
8 Heptachlor						CAS #: 76-44-8	
6.918	6.916	0.002	2413801	0.02500	0.02542		
10 Aldrin						CAS #: 309-00-2	
7.743	7.740	0.003	769072	0.02500	0.02562		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.090	9.088	0.002	2096362	0.02500	0.02585		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.476	9.474	0.002	2080632	0.02500	0.02564		

```
   14 alpha-Chlordane                             CAS #: 5103-71-9
9.762    9.760    0.002         2032952 0.02500  0.02566
-------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.826    9.824    0.002         1919382 0.02500  0.02582
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
	16 4,4'-DDE				CAS #: 72-55-9		
10.169	10.167	0.002	826373	0.02500	0.02503		
	17 Dieldrin				CAS #: 60-57-1		
10.324	10.322	0.002	1973502	0.02500	0.02569		
	18 Endrin				CAS #: 72-20-8		
10.825	10.823	0.002	1822992	0.02500	0.02595		
	21 4,4'-DDD				CAS #: 72-54-8		
11.143	11.139	0.004	797133	0.02500	0.02705		
	22 Endosulfan II				CAS #: 33213-65-9		
11.185	11.183	0.002	839033	0.02500	0.02597		
	24 4,4'-DDT				CAS #: 50-29-3		
11.625	11.623	0.002	567128	0.02500	0.02230		
	25 Endrin aldehyde				CAS #: 7421-93-4		
11.732	11.729	0.003	1378757	0.02500	0.02541		
	26 Endosulfan sulfate				CAS #: 1031-07-8		
12.155	12.153	0.002	772242	0.02500	0.02576		
	27 Methoxychlor				CAS #: 72-43-5		
12.674	12.672	0.002	647098	0.02500	0.02449		
	29 Endrin ketone				CAS #: 53494-70-5		
12.893	12.889	0.004	1703343	0.02500	0.02447		
$	30 Decachlorobiphenyl				CAS #: 2051-24-3		

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\012F1201.D

Date : 15-MAR-2010 12:40

Client ID:

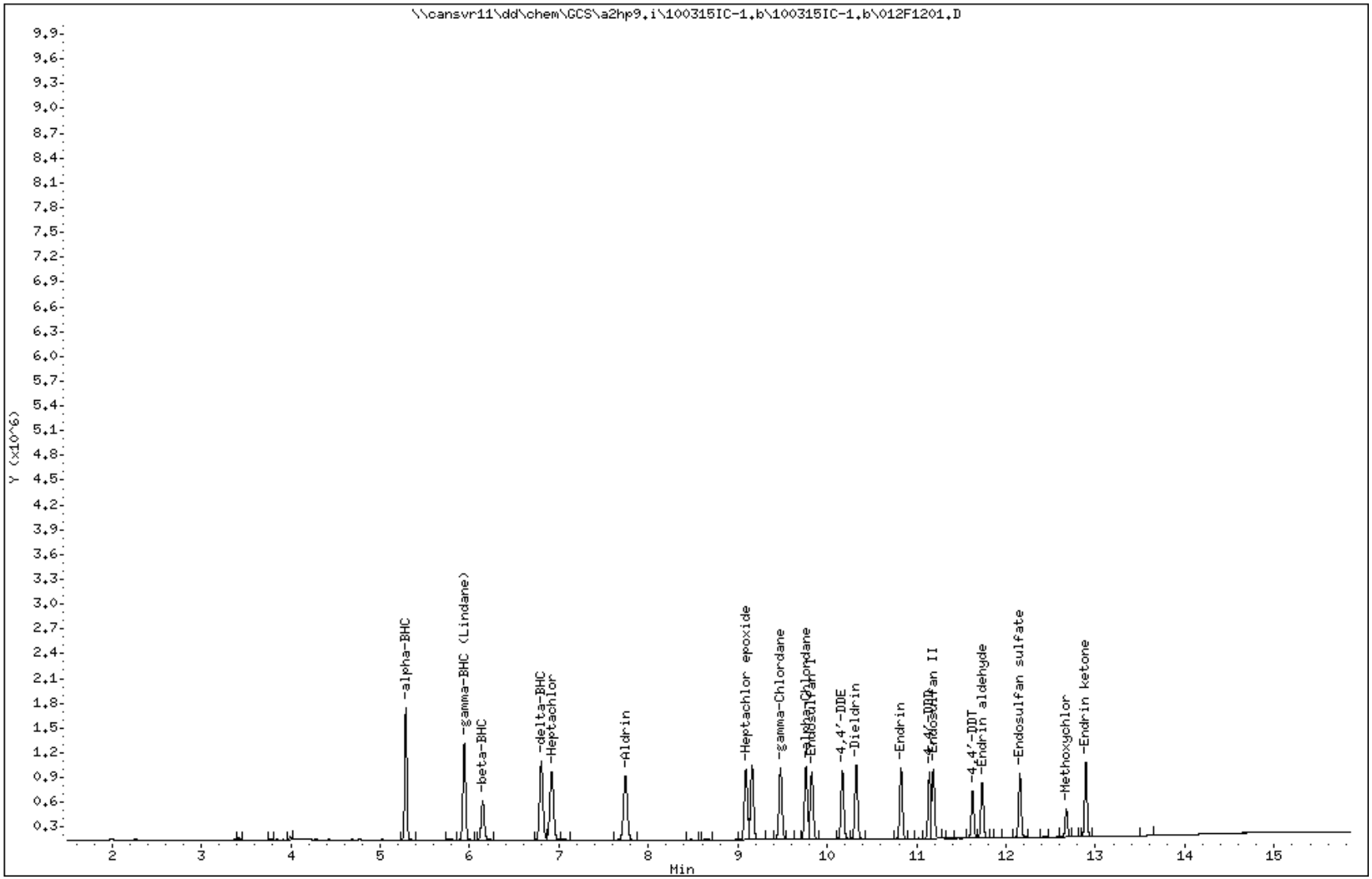
Instrument: a2hp9.i

Sample Info: ICV

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 12:40
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/012F1201.D
Lab Sample ID: ICV
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 4.368		
4) alpha-BHC	5.286	2765978	0.026	0.026
5) gamma-BHC (Lindane)	5.941	2474558	0.025	0.025
6) beta-BHC	6.146	1127718	0.026	0.026
7) delta-BHC	6.801	2516021	0.026	0.026
8) Heptachlor	6.918	2413801	0.025	0.025
10) Aldrin	7.744	2316237	0.026	0.026
12) Heptachlor epoxide	9.091	2096362	0.026	0.026
13) gamma-Chlordane	9.476	2080632	0.026	0.026
14) alpha-Chlordane	9.762	2032952	0.026	0.026
15) Endosulfan I	9.826	1919382	0.026	0.026
16) 4,4'-DDE	10.170	1825863	0.025	0.025
17) Dieldrin	10.325	1973502	0.026	0.026
18) Endrin	10.826	1822992	0.026	0.026
21) 4,4'-DDD	11.143	1609102	0.027	0.027
22) Endosulfan II	11.186	1757633	0.026	0.026
24) 4,4'-DDT	11.626	1128511	0.022	0.022
25) Endrin aldehyde	11.732	1378757	0.025	0.025
26) Endosulfan sulfate	12.156	1567570	0.026	0.026
27) Methoxychlor	12.675	647098	0.024	0.024
29) Endrin ketone	12.893	1703343	0.024	0.024
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.646		

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D
Lab Smp Id: TOX1 G268
Inj Date : 15-MAR-2010 13:03
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX1 G268,,1,1
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 05:00 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.332	11.332	0.000	247617	0.20000	0.1836	80.00- 120.00	100.00(M)
11.446	11.446	0.000	111472	0.20000	0.1752	114.04- 154.04	45.02
11.749	11.749	0.000	227074	0.20000	0.1804	115.64- 155.64	91.70
12.491	12.491	0.000	213403	0.20000	0.1842	52.78- 92.78	86.18
12.866	12.866	0.000	91676	0.20000	0.1628	69.36- 109.36	37.02
		Average of Peak Amounts =			0.17724		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D

Page 1

Date : 15-MAR-2010 13:03

Client ID:

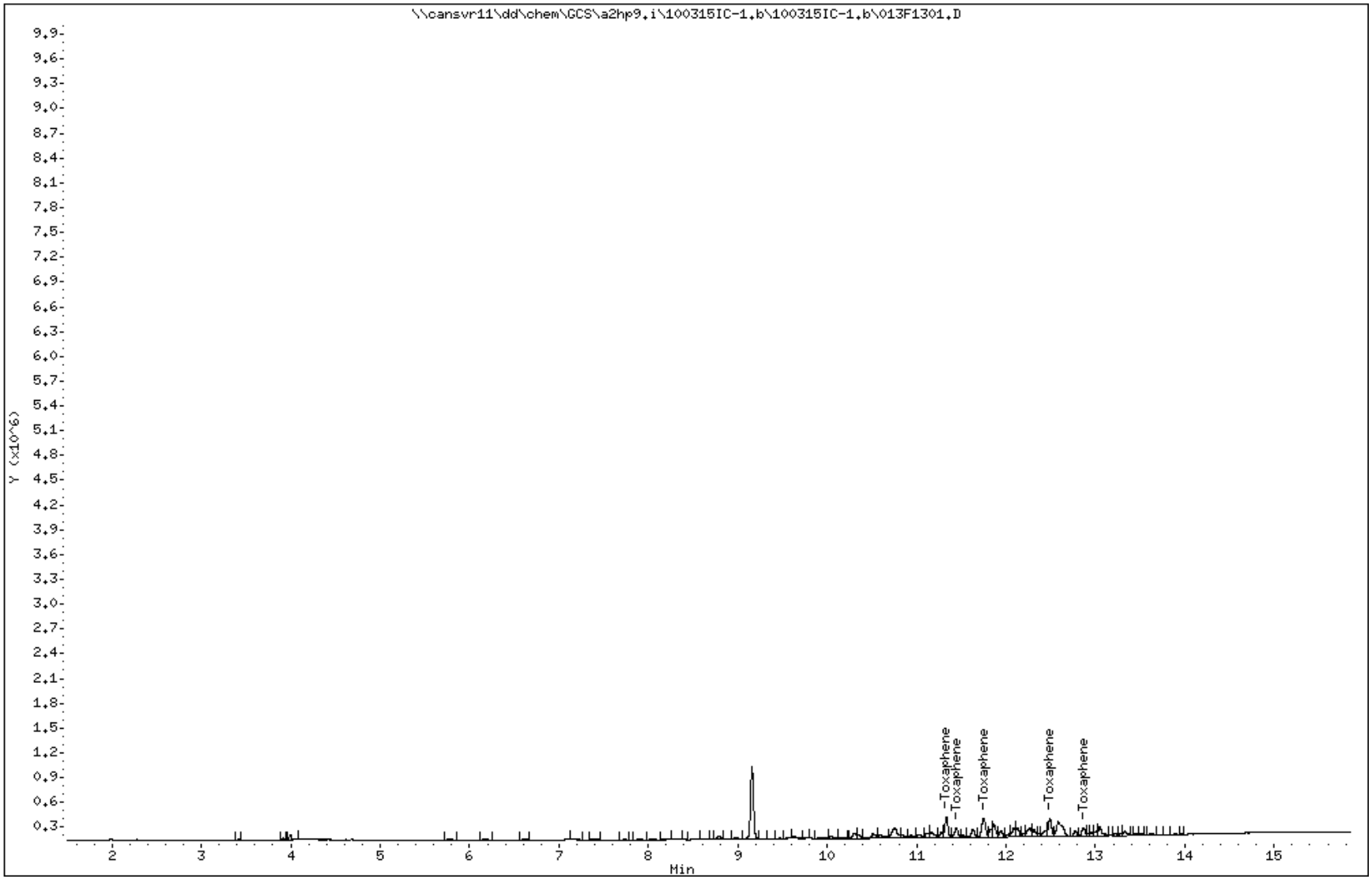
Instrument: a2hp9.i

Sample Info: TOX1 G268,,1,1

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

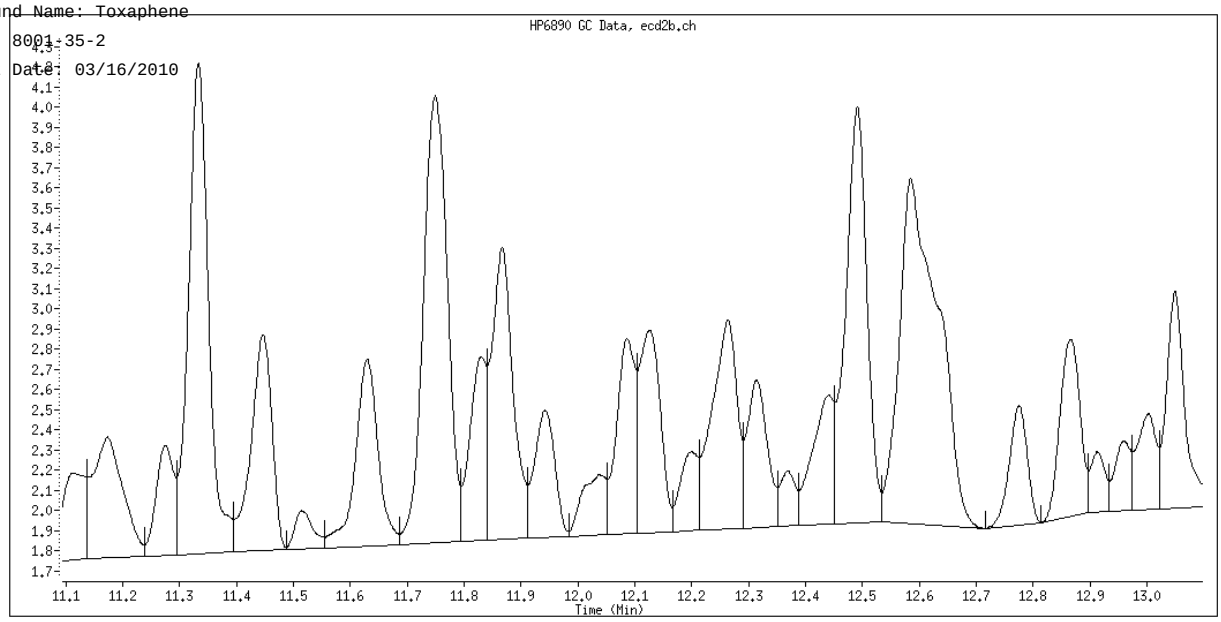


COMPOUNDS and EXP. RT REPORT

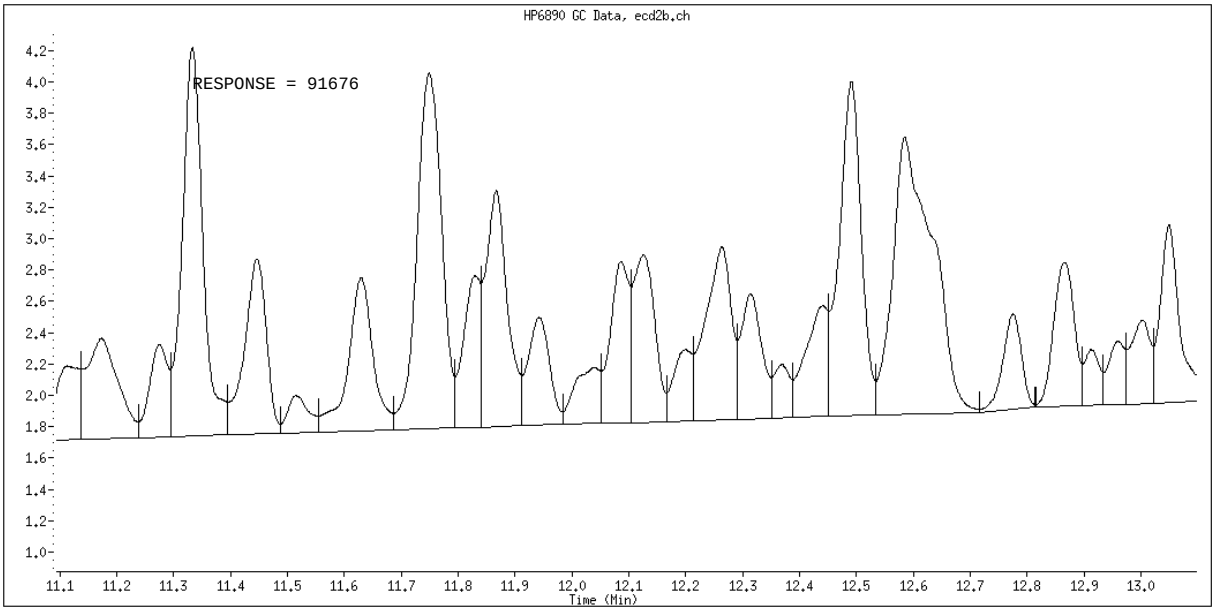
Operator: 093905 Date Acquired: 15-MAR-2010 13:03
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D
Lab Sample ID: TOX1 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.333	629886	0.184	0.184

Data File Name: 013F1301.D
Inj. Date and Time: 15-MAR-2010 13:03
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D
Lab Smp Id: TOX2 G268
Inj Date : 15-MAR-2010 13:28
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX2 G268,,1,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 13:41 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:28 Cal File: 014F1401.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.333	11.333	0.000	638094	0.50000	0.4917	80.00- 120.00	100.00
11.447	11.447	0.000	297007	0.50000	0.4800	114.04- 154.04	46.55
11.748	11.748	0.000	591627	0.50000	0.4840	115.64- 155.64	92.72
12.489	12.489	0.000	547841	0.50000	0.4858	52.78- 92.78	85.86
12.864	12.864	0.000	255111	0.50000	0.4544	69.36- 109.36	39.98
		Average of Peak Amounts =			0.47918		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D

Date : 15-MAR-2010 13:28

Client ID:

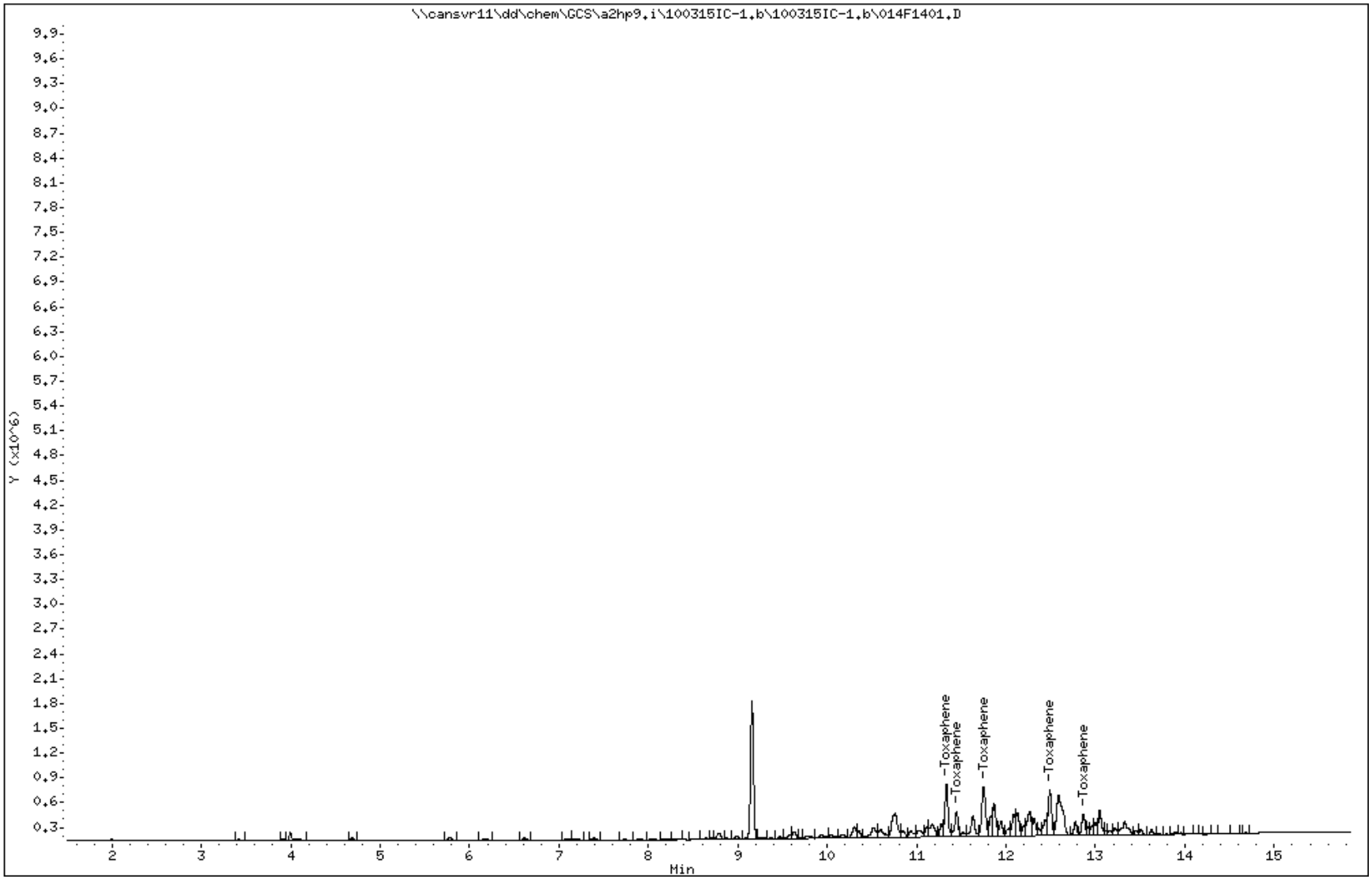
Instrument: a2hp9.i

Sample Info: TOX2 G268,,1,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 13:28
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D
Lab Sample ID: TOX2 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.333	1600116	0.492	0.492

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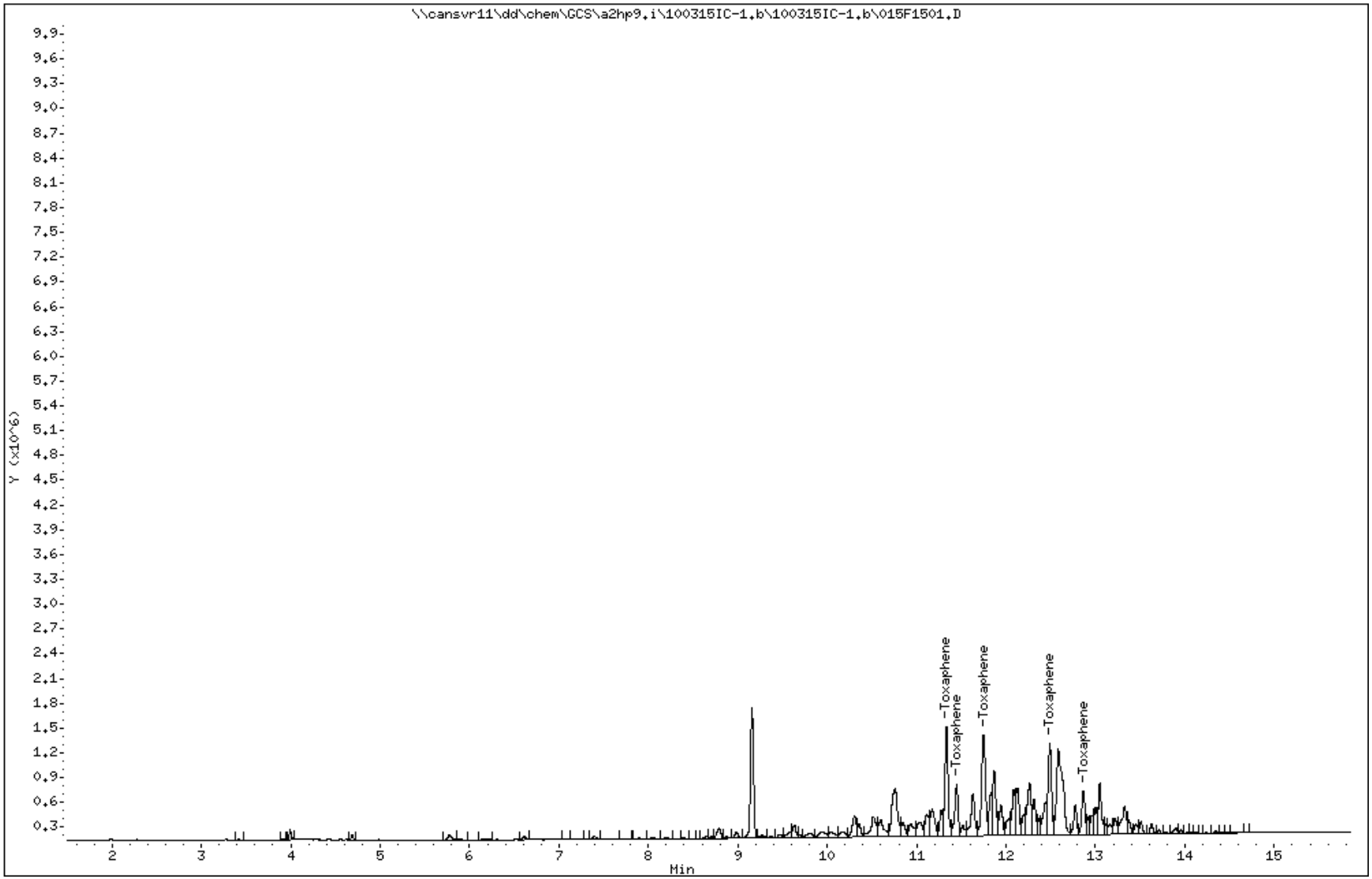
PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D
Lab Smp Id: TOX3 G268
Inj Date : 15-MAR-2010 13:52
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,1,3
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 14:05 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:52 Cal File: 015F1501.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.333	11.333	0.000	1317292	1.00000	0.9972	80.00- 120.00	100.00
11.446	11.446	0.000	619378	1.00000	0.9905	114.04- 154.04	47.02
11.747	11.747	0.000	1216514	1.00000	0.9827	115.64- 155.64	92.35
12.489	12.489	0.000	1104065	1.00000	0.9708	52.78- 92.78	83.81
12.864	12.864	0.000	523299	1.00000	0.9394	69.36- 109.36	39.73
		Average of Peak Amounts =			0.97612		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D Page 1
Date : 15-MAR-2010 13:52
Client ID: Instrument: a2hp9.i
Sample Info: TOX3 G268,,1,3
Operator: 093905
Column phase: clp pesticides II Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 13:52
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.333	3290733	0.997	0.997

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\016F1601.D
Lab Smp Id: TOX4 G268
Inj Date : 15-MAR-2010 14:16
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX4 G268,,1,4
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 05:00 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:41 Cal File: 017F1701.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.333	11.330	0.003	2818445	2.00000	2.101	80.00- 120.00	100.00
11.447	11.444	0.003	1346254	2.00000	2.138	114.04- 154.04	47.77
11.746	11.745	0.001	2644556	2.00000	2.117	115.64- 155.64	93.83
12.489	12.488	0.001	2417451	2.00000	2.110	52.78- 92.78	85.77
12.864	12.862	0.002	1240859	2.00000	2.236	69.36- 109.36	44.03
		Average of Peak Amounts =			2.14040		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\016F1601.D

Page 1

Date : 15-MAR-2010 14:16

Client ID:

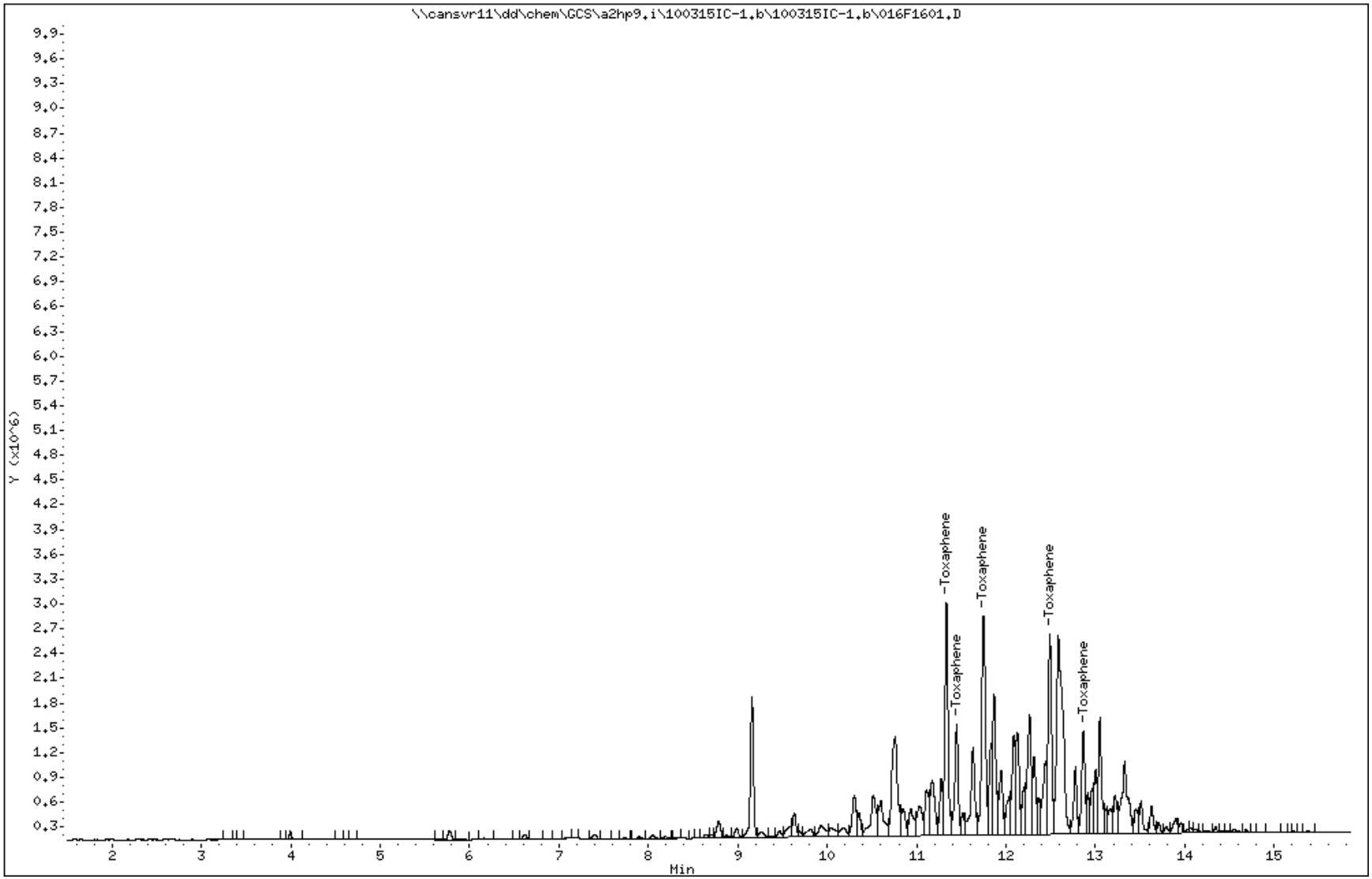
Instrument: a2hp9.i

Sample Info: TOX4 G268,,1,4

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 14:16
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/016F1601.D
Lab Sample ID: TOX4 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.334	6987933	2.101	2.101

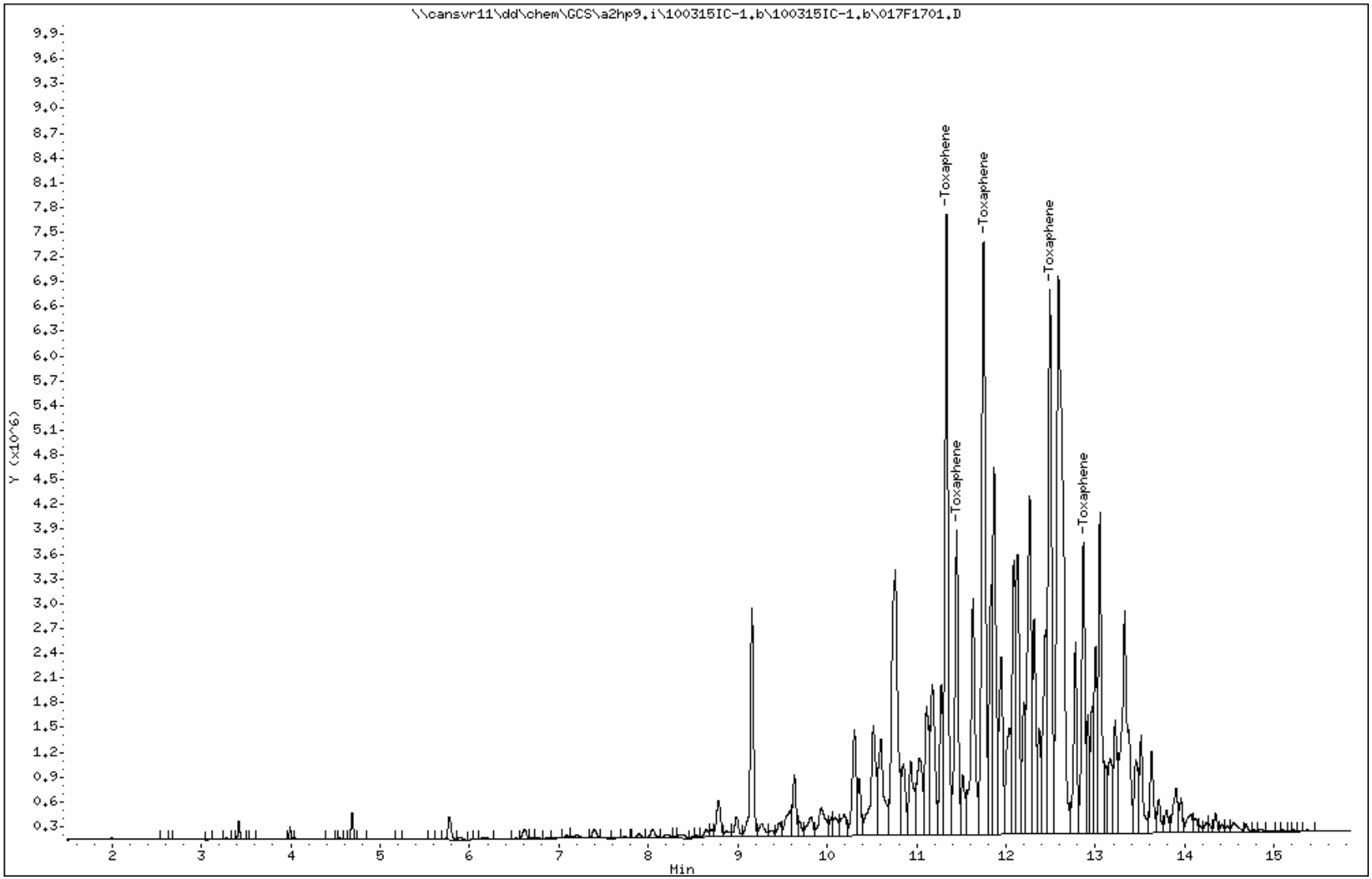
TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D
Lab Smp Id: TOX5 G268
Inj Date : 15-MAR-2010 14:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX5 G268,,1,5
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 14:54 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:41 Cal File: 017F1701.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.333	11.333	0.000	7520148	5.00000	5.607	80.00- 120.00	100.00
11.448	11.448	0.000	3687318	5.00000	5.856	114.04- 154.04	49.03
11.746	11.746	0.000	7174976	5.00000	5.745	115.64- 155.64	95.41
12.490	12.490	0.000	6586251	5.00000	5.749	52.78- 92.78	87.58
12.864	12.864	0.000	3518999	5.00000	6.340	69.36- 109.36	46.79
Average of Peak Amounts =					5.85940		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D Page 1
Date : 15-MAR-2010 14:41
Client ID:
Instrument: a2hp9.i
Sample Info: TOX5 G268,,1,5
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 14:41
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D
Lab Sample ID: TOX5 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.334	18663260	5.607	5.607

FORM 8
PESTICIDES ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0C050520

GC Column: CLP PESTICIDES I ID: 0.53 (mm) Init. Calib. Date(s): 03/09/10 03/15/10

Instrument ID: A2HP9

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		PEM R006	03/16/10	1931		
02		TOX3 G268	03/16/10	1955		
03		AB3 G252	03/16/10	2018		
04		MRL	03/16/10	2042		
05	LL6SB-069-52	LWCWJ1AE	03/16/10	2301		
06	LL6SB-069-52	LWCWJ1CE	03/16/10	2325		
07	LL6SB-069-52	LWCWJ1CF	03/16/10	2348		
08	LWET7BLK	LWET71AA	03/17/10	0048		
09	LWET7CHK	LWET71AC	03/17/10	0112		
10		TOX3 G268	03/17/10	0135		
11		AB3 G252	03/17/10	0158		
12		MRL	03/17/10	0221		
13		PEM E006	03/17/10	0523		
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 18-Mar-2010 07:03

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Start Cal Date: 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
15-MAR-2010 13:03	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\013F1301.D
15-MAR-2010 09:30	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\004F0401.D
Cal Level: 2 , Cal Amount: 0.01000		
15-MAR-2010 13:28	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\014F1401.D
15-MAR-2010 09:54	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\005F0501.D
Cal Level: 3 , Cal Amount: 0.02500		
15-MAR-2010 13:52	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\015F1501.D
15-MAR-2010 10:17	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\006F0601.D
Cal Level: 4 , Cal Amount: 0.05000		
15-MAR-2010 14:16	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D
15-MAR-2010 10:41	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\007F0701.D
Cal Level: 5 , Cal Amount: 0.10000		
15-MAR-2010 14:41	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\017F1701.D
15-MAR-2010 11:05	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\008F0801.D
Cal Level: 6 , Cal Amount: 0.20000		
15-MAR-2010 11:29	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\009F0901.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

17-MAR-2010 09:12	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\053F5301.D
17-MAR-2010 05:45	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\044F4401.D
17-MAR-2010 09:36	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\054F5401.D
17-MAR-2010 06:08	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\045F4501.D
17-MAR-2010 01:58	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\034F3401.D
17-MAR-2010 01:35	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\033F3301.D
16-MAR-2010 20:18	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\020F2001.D
16-MAR-2010 19:55	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\019F1901.D
16-MAR-2010 14:06	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\005F0501.D
16-MAR-2010 13:43	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\004F0401.D

Report Date: 18-Mar-2010 07:03

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Start Cal Date: 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
15-MAR-2010 13:03	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D
15-MAR-2010 09:30	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\004F0401.D
Cal Level: 2 , Cal Amount: 0.01000		
15-MAR-2010 13:28	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D
15-MAR-2010 09:54	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\005F0501.D
Cal Level: 3 , Cal Amount: 0.02500		
15-MAR-2010 13:52	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D
15-MAR-2010 10:17	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\006F0601.D
Cal Level: 4 , Cal Amount: 0.05000		
15-MAR-2010 14:16	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\016F1601.D
15-MAR-2010 10:41	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\007F0701.D
Cal Level: 5 , Cal Amount: 0.10000		
15-MAR-2010 14:41	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D
15-MAR-2010 11:05	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\008F0801.D
Cal Level: 6 , Cal Amount: 0.20000		
15-MAR-2010 11:29	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

17-MAR-2010 09:12	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\053F5301.D
17-MAR-2010 09:36	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\054F5401.D
17-MAR-2010 06:08	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\045F4501.D
17-MAR-2010 05:45	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\044F4401.D
17-MAR-2010 01:58	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\034F3401.D
17-MAR-2010 01:35	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\033F3301.D
16-MAR-2010 20:18	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\020F2001.D
16-MAR-2010 19:55	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\019F1901.D
16-MAR-2010 14:06	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\005F0501.D
16-MAR-2010 13:43	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\004F0401.D
16-MAR-2010 14:06	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\005F0501.D
16-MAR-2010 13:43	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\004F0401.D

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b/018F1801.D
Report Date: 03/17/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 16-MAR-2010 19:31
Lab File ID: 018F1801.D Lab Sample ID: PEM R006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
10.210	11012955	4,4'-DDT
8.5394	53105	4,4'-DDE
9.7210	682671	4,4'-DDD

Percent Degradation of 4,4'-DDT: 6.26

Endrin Degradation

RT	Area	Compound
9.4069	6466033	Endrin
10.583	219953	Endrin aldehyde
11.679	419159	Endrin ketone

Percent Degradation of Endrin: 9.00

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\018F1801.D
Lab Smp Id: PEM R006
Inj Date : 16-MAR-2010 19:31
Operator : 093905   Inst ID: a2hp9.i
Smp Info : PEM R006
Misc Info : 12-PEM.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16   Cal File: 016F1601.D
Als bottle: 18   QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 12-PEM.SUB
Target Version: 4.14   Sample Matrix: None

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.496	4.495	0.001	1299111	0.00976	0.009758		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.918	4.919	-0.001	1613702	0.00977	0.009775		
6 beta-BHC						CAS #: 319-85-7	
5.066	5.066	0.000	386885	0.00957	0.009569		
16 4,4'-DDE						CAS #: 72-55-9	
8.539	8.540	-0.001	53105	0.00038	0.0003798		
18 Endrin						CAS #: 72-20-8	
9.406	9.407	-0.001	2601288	0.04774	0.04774		
20 4,4'-DDD						CAS #: 72-54-8	
9.721	9.721	0.000	682671	0.00583	0.005827		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.210	10.209	0.001	11012955	0.10782	0.1078		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.582	10.584	-0.002	91981	0.00205	0.002054		
27 Methoxychlor						CAS #: 72-43-5	

```
11.108  11.108    0.000        13287381 0.24860   0.2486
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.277  11.284   -0.007           44995  4e-004  0.0004064
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.678	11.679	-0.001	201782	0.00319	0.003189		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\018F1801.D

Date : 16-MAR-2010 19:31

Client ID:

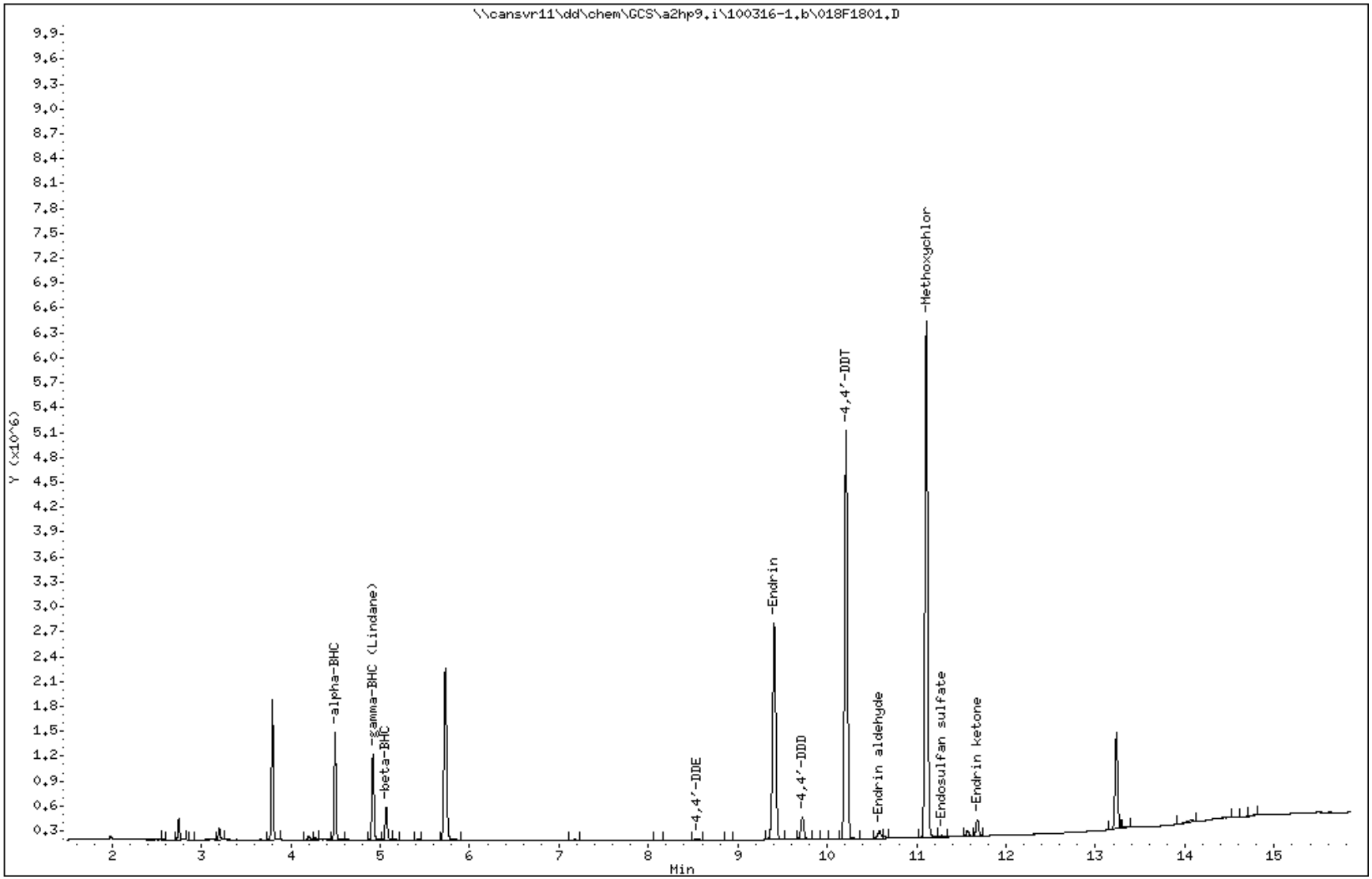
Instrument: a2hp9.i

Sample Info: PEM R006

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 19:31
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/018F1801.D
Lab Sample ID: PEM R006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.496	1765832	0.010	0.010
5) gamma-BHC (Lindane)	4.919	1613702	0.010	0.010
6) beta-BHC	5.067	675331	0.010	0.010
16) 4,4'-DDE	8.539	53105	0.000	0.000
18) Endrin	9.407	6466033	0.048	0.048
20) 4,4'-DDD	9.721	682671	0.006	0.006
22) Endosulfan II	NOT DETECTED Expected RT = 9.830			
23) 4,4'-DDT	10.210	11012955	0.108	0.108
25) Endrin aldehyde	10.583	219953	0.002	0.002
27) Methoxychlor	11.109	13287381	0.249	0.249
28) Endosulfan sulfate	11.278	44995	0.000	0.000
29) Endrin ketone	11.679	419159	0.003	0.003

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 16-MAR-2010 19:55
Lab File ID: 019F1901.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
24 Toxaphene(1)	1902709	1659223	1659223	0.010	12.79679	15.00000	Averaged	
(2)	1827689	1548009	1548009	0.010	15.30239	15.00000	Averaged	<-
(3)	1623385	1393091	1393091	0.010	14.18603	15.00000	Averaged	
(4)	2314679	1990977	1990977	0.010	13.98473	15.00000	Averaged	
(5)	2102694	1791354	1791354	0.010	14.80672	15.00000	Averaged	

Average %D / Drift Results.
Calculated Average %D/Drift = 14.21533
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\019F1901.D
Lab Smp Id: TOX3 G268
Inj Date : 16-MAR-2010 19:55
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 16-Mar-2010 20:07 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 19 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
24 Toxaphene						CAS #: 8001-35-2		
9.952	9.952	0.000	1659223	1.00000	0.8720	80.00-	120.00	100.00
10.383	10.383	0.000	1548009	1.00000	0.8470	114.04-	154.04	93.30
10.532	10.532	0.000	1393091	1.00000	0.8581	115.64-	155.64	83.96
11.094	11.094	0.000	1990977	1.00000	0.8602	52.78-	92.78	119.99
11.198	11.198	0.000	1791354	1.00000	0.8519	69.36-	109.36	107.96
		Average of Peak Amounts =			0.85784			

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\019F1901.D

Date : 16-MAR-2010 19:55

Client ID:

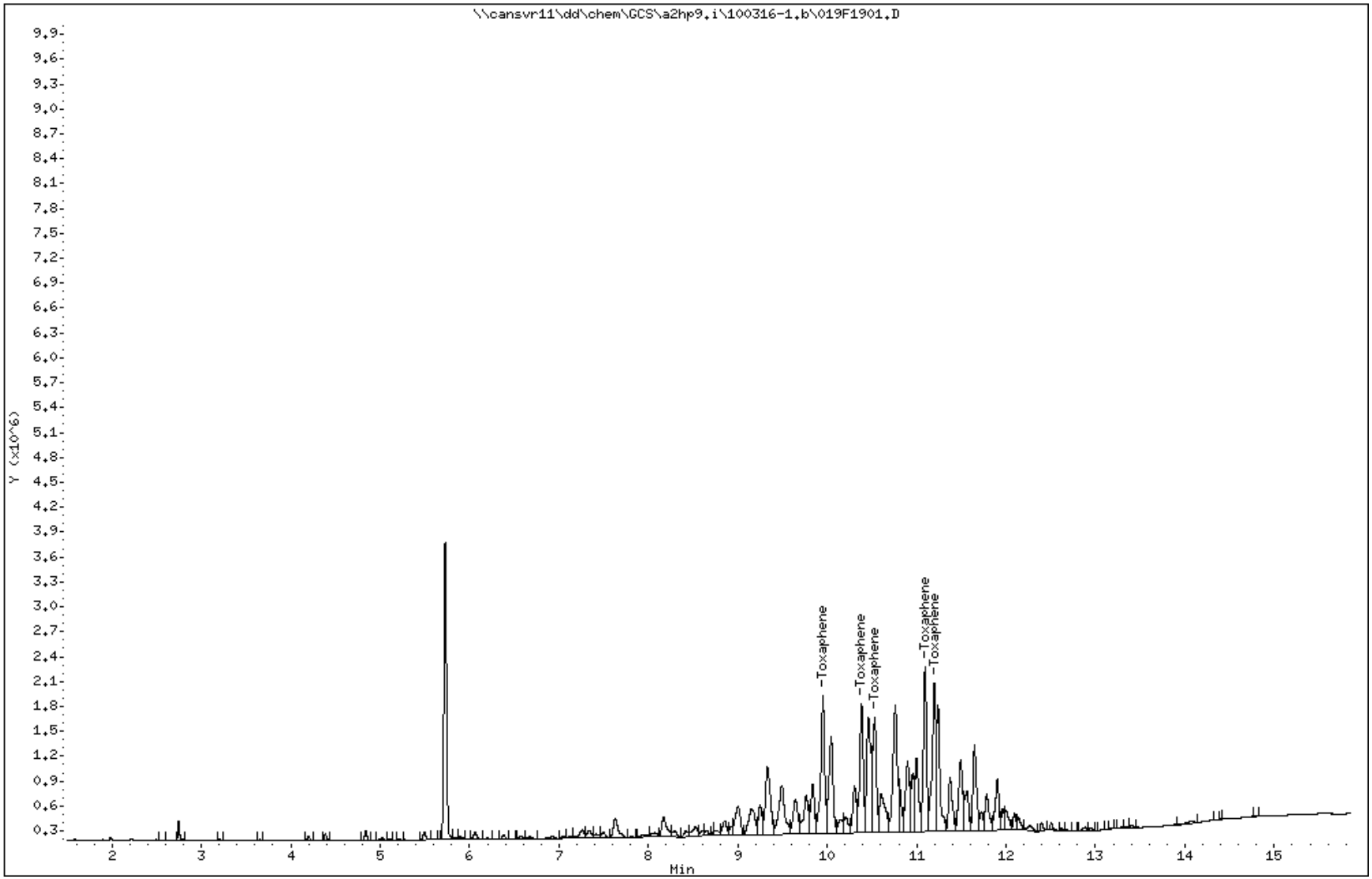
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 19:55
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/019F1901.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.952	4962559	0.872	0.872

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 16-MAR-2010 20:18
Lab File ID: 020F2001.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	84173465	85143920	85143920	0.000	-1.15292	15.00000	Averaged
4 alpha-BHC	133126098	137920360	137920360	0.010	-3.60129	15.00000	Averaged
5 gamma-BHC (Lindane)	165088708	167888520	167888520	0.010	-1.69594	15.00000	Averaged
6 beta-BHC	40431668	39719120	39719120	0.010	1.76235	15.00000	Averaged
7 delta-BHC	165754598	168700440	168700440	0.010	-1.77723	15.00000	Averaged
8 Heptachlor	78731673	81178240	81178240	0.010	-3.10747	15.00000	Averaged
10 Aldrin	156923965	156811760	156811760	0.010	0.07150	15.00000	Averaged
12 Heptachlor epoxide	46480680	47136320	47136320	0.010	-1.41056	15.00000	Averaged
13 gamma-Chlordane	49811115	49840240	49840240	0.010	-0.05847	15.00000	Averaged
14 alpha-Chlordane	51312584	51798040	51798040	0.010	-0.94608	15.00000	Averaged
15 Endosulfan I	48523034	49388920	49388920	0.010	-1.78448	15.00000	Averaged
16 4,4'-DDE	139823780	140173600	140173600	0.010	-0.25019	15.00000	Averaged
17 Dieldrin	143431818	143639240	143639240	0.010	-0.14461	15.00000	Averaged
18 Endrin	54486263	55192920	55192920	0.010	-1.29695	15.00000	Averaged
20 4,4'-DDD	117147756	118247600	118247600	0.010	-0.93885	15.00000	Averaged
22 Endosulfan II	52467042	51948640	51948640	0.010	0.98805	15.00000	Averaged
23 4,4'-DDT	102138274	96475240	96475240	0.010	5.54448	15.00000	Averaged
25 Endrin aldehyde	44770833	44668720	44668720	0.010	0.22808	15.00000	Averaged
27 Methoxychlor	53449599	53284760	53284760	0.010	0.30840	15.00000	Averaged
28 Endosulfan sulfate	110718182	109656840	109656840	0.010	0.95860	15.00000	Averaged
29 Endrin ketone	63269941	63995280	63995280	0.010	-1.14642	15.00000	Averaged
$ 30 Decachlorobiphenyl	59416517	60845400	60845400	0.010	-2.40486	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.43535
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\020F2001.D
Lab Smp Id: AB3 G252
Inj Date : 16-MAR-2010 20:18
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 16-Mar-2010 20:30 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16   Cal File: 016F1601.D
Als bottle: 20   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.793	3.793	0.000	2128598	0.02500	0.02529		
4 alpha-BHC					CAS #: 319-84-6		
4.495	4.495	0.000	3448009	0.02500	0.02590		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.918	4.918	0.000	4197213	0.02500	0.02542		
6 beta-BHC					CAS #: 319-85-7		
5.066	5.066	0.000	992978	0.02500	0.02456		
7 delta-BHC					CAS #: 319-86-8		
5.313	5.313	0.000	4217511	0.02500	0.02544		
		Sum of Peak Amounts =			0.02544		
8 Heptachlor					CAS #: 76-44-8		
5.637	5.637	0.000	2029456	0.02500	0.02578		
10 Aldrin					CAS #: 309-00-2		
6.163	6.163	0.000	3920294	0.02500	0.02498		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.598	7.598	0.000	1178408	0.02500	0.02535		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.900	7.900	0.000	1246006	0.02500	0.02501		
14 alpha-Chlordane					CAS #: 5103-71-9		

```
8.213    8.213    0.000         1294951 0.02500  0.02524
-------------------------------------------------------------------------------
   15 Endosulfan I                               CAS #: 959-98-8
8.468    8.468    0.000         1234723 0.02500  0.02545
-------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.538	8.538	0.000	3504340	0.02500	0.02506		
17 Dieldrin					CAS #: 60-57-1		
8.981	8.981	0.000	3590981	0.02500	0.02504		
18 Endrin					CAS #: 72-20-8		
9.407	9.407	0.000	1379823	0.02500	0.02532		
20 4,4'-DDD					CAS #: 72-54-8		
9.720	9.720	0.000	2956190	0.02500	0.02523		
22 Endosulfan II					CAS #: 33213-65-9		
9.829	9.829	0.000	1298716	0.02500	0.02475		
23 4,4'-DDT					CAS #: 50-29-3		
10.210	10.210	0.000	2411881	0.02500	0.02361		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.584	10.584	0.000	1116718	0.02500	0.02494		
27 Methoxychlor					CAS #: 72-43-5		
11.108	11.108	0.000	1332119	0.02500	0.02492		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.284	11.284	0.000	2741421	0.02500	0.02476		
29 Endrin ketone					CAS #: 53494-70-5		
11.678	11.678	0.000	1599882	0.02500	0.02529		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.233	13.233	0.000	1521135	0.02500	0.02560		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\020F2001.D

Date : 16-MAR-2010 20:18

Client ID:

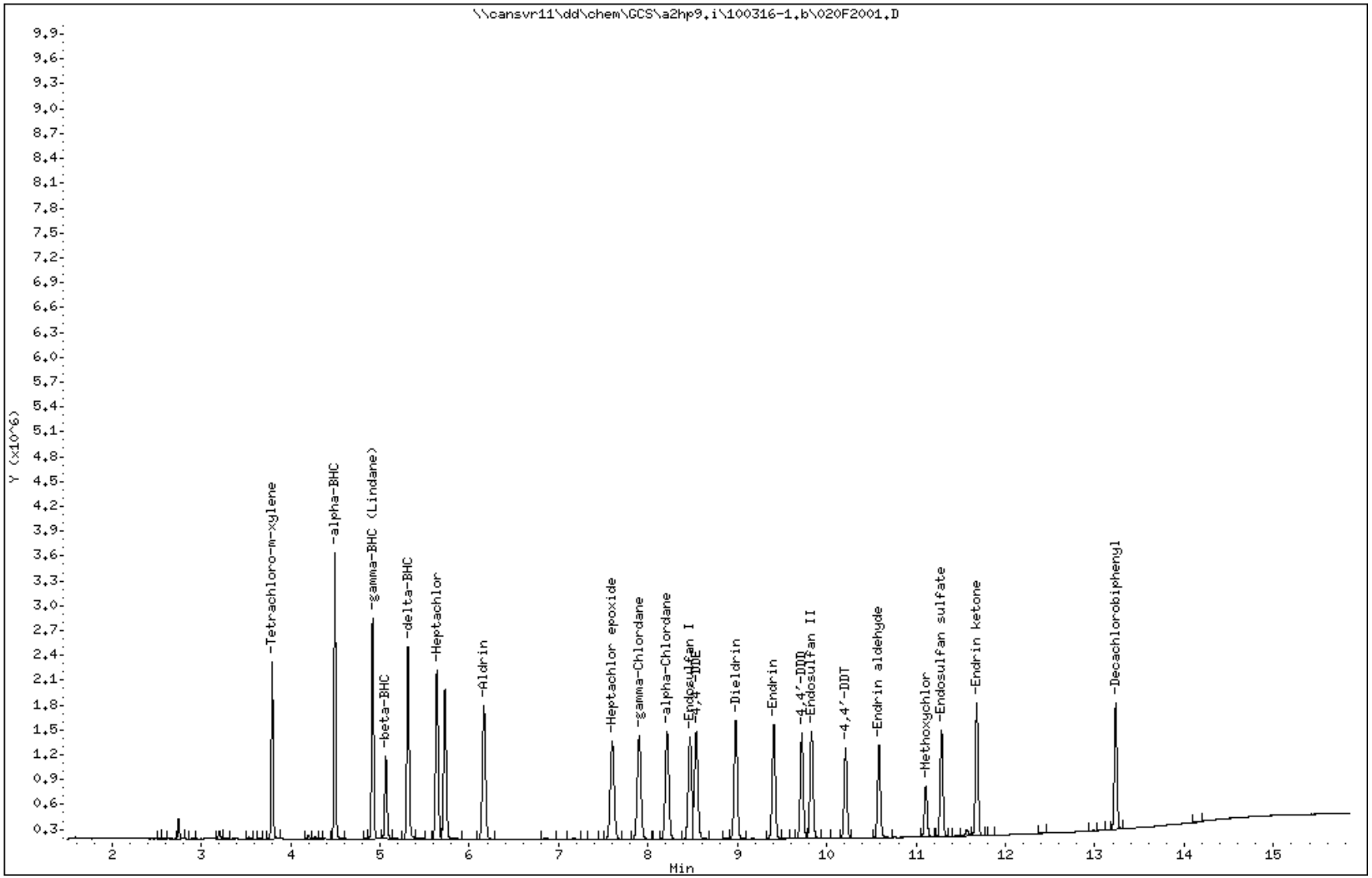
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 20:18
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/020F2001.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.794	2842104	0.025	0.025
4) alpha-BHC	4.495	4745747	0.026	0.026
5) gamma-BHC (Lindane)	4.918	4197213	0.025	0.025
6) beta-BHC	5.066	1739150	0.025	0.025
7) delta-BHC	5.314	4217511	0.025	0.025
8) Heptachlor	5.637	4176996	0.026	0.026
10) Aldrin	6.164	3920294	0.025	0.025
12) Heptachlor epoxide	7.599	3606934	0.025	0.025
13) gamma-Chlordane	7.901	3665260	0.025	0.025
14) alpha-Chlordane	8.214	3642566	0.025	0.025
15) Endosulfan I	8.469	3358656	0.025	0.025
16) 4,4'-DDE	8.539	3504340	0.025	0.025
17) Dieldrin	8.981	3590981	0.025	0.025
18) Endrin	9.407	3363453	0.025	0.025
20) 4,4'-DDD	9.721	2956190	0.025	0.025
22) Endosulfan II	9.830	3177960	0.025	0.025
23) 4,4'-DDT	10.211	2411881	0.024	0.024
25) Endrin aldehyde	10.585	2522971	0.025	0.025
27) Methoxychlor	11.109	1332119	0.025	0.025
28) Endosulfan sulfate	11.285	2741421	0.025	0.025
29) Endrin ketone	11.678	3326773	0.025	0.025
30) Decachlorobiphenyl	13.233	3070583	0.026	0.026

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\021F2101.D Page 1
Report Date: 17-Mar-2010 14:18

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: METHSPIKE
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004533	90.66	70-130
5 gamma-BHC (Lindane	0.005000	0.004710	94.21	70-130
6 beta-BHC	0.005000	0.005143	102.86	70-130
7 delta-BHC	0.005000	0.004460	89.20	70-130
8 Heptachlor	0.005000	0.004833	96.67	70-130
10 Aldrin	0.005000	0.004839	96.79	70-130
12 Heptachlor epoxide	0.005000	0.004956	99.13	70-130
13 gamma-Chlordane	0.005000	0.004761	95.22	70-130
14 alpha-Chlordane	0.005000	0.004834	96.69	70-130
15 Endosulfan I	0.005000	0.004953	99.06	70-130
16 4,4'-DDE	0.005000	0.004641	92.82	70-130
17 Dieldrin	0.005000	0.004748	94.97	70-130
18 Endrin	0.005000	0.004742	94.84	70-130
20 4,4'-DDD	0.005000	0.004779	95.57	70-130
22 Endosulfan II	0.005000	0.004911	98.21	70-130
23 4,4'-DDT	0.005000	0.003998	79.97	70-130
25 Endrin aldehyde	0.005000	0.005054	101.08	70-130
27 Methoxychlor	0.005000	0.004698	93.97	70-130
28 Endosulfan sulfate	0.005000	0.005067	101.34	70-130
29 Endrin ketone	0.005000	0.005041	100.82	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\021F2101.D
Lab Smp Id: MRL
Inj Date : 16-MAR-2010 20:42
Operator : 093905   Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16   Cal File: 016F1601.D
Als bottle: 21   QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: mrl.sub
Target Version: 4.14   Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4	alpha-BHC				CAS #: 319-84-6		
4.495	4.495	0.000	603487	0.00453	0.004533		
5	gamma-BHC (Lindane)				CAS #: 58-89-9		
4.918	4.919	-0.001	777633	0.00471	0.004710		
6	beta-BHC				CAS #: 319-85-7		
5.065	5.066	-0.001	207938	0.00514	0.005143		
7	delta-BHC				CAS #: 319-86-8		
5.313	5.314	-0.001	739237	0.00446	0.004460		
	Sum of Peak Concentrations = 0.004460						
8	Heptachlor				CAS #: 76-44-8		
5.637	5.638	-0.001	380546	0.00483	0.004833		
10	Aldrin				CAS #: 309-00-2		
6.163	6.164	-0.001	759424	0.00484	0.004839		

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   12 Heptachlor epoxide                          CAS #: 1024-57-3
7.599    7.601   -0.002          230373 0.00496  0.004956
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
7.900	7.901	-0.001	237147	0.00476	0.004761		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.213	8.214	-0.001	248072	0.00483	0.004834		
15 Endosulfan I					CAS #: 959-98-8		
8.469	8.469	0.000	240324	0.00495	0.004953		
16 4,4'-DDE					CAS #: 72-55-9		
8.539	8.540	-0.001	648894	0.00464	0.004641		
17 Dieldrin					CAS #: 60-57-1		
8.980	8.982	-0.002	681097	0.00475	0.004748		
18 Endrin					CAS #: 72-20-8		
9.404	9.407	-0.003	258366	0.00474	0.004742		
20 4,4'-DDD					CAS #: 72-54-8		
9.720	9.721	-0.001	559818	0.00478	0.004779		
22 Endosulfan II					CAS #: 33213-65-9		
9.828	9.830	-0.002	257647	0.00491	0.004911		
23 4,4'-DDT					CAS #: 50-29-3		
10.210	10.209	0.001	408398	0.00400	0.003998		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.584	10.584	0.000	226267	0.00505	0.005054		
27 Methoxychlor					CAS #: 72-43-5		
11.108	11.108	0.000	251138	0.00470	0.004698		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.283	11.284	-0.001	561006	0.00507	0.005067		
29 Endrin ketone					CAS #: 53494-70-5		
11.678	11.679	-0.001	318956	0.00504	0.005041		

Data File: \\CANSVR11\DD\chem\GCS\a2hp9.i\100316-1.b\021F2101.D

Date : 16-MAR-2010 20:42

Client ID:

Instrument: a2hp9.i

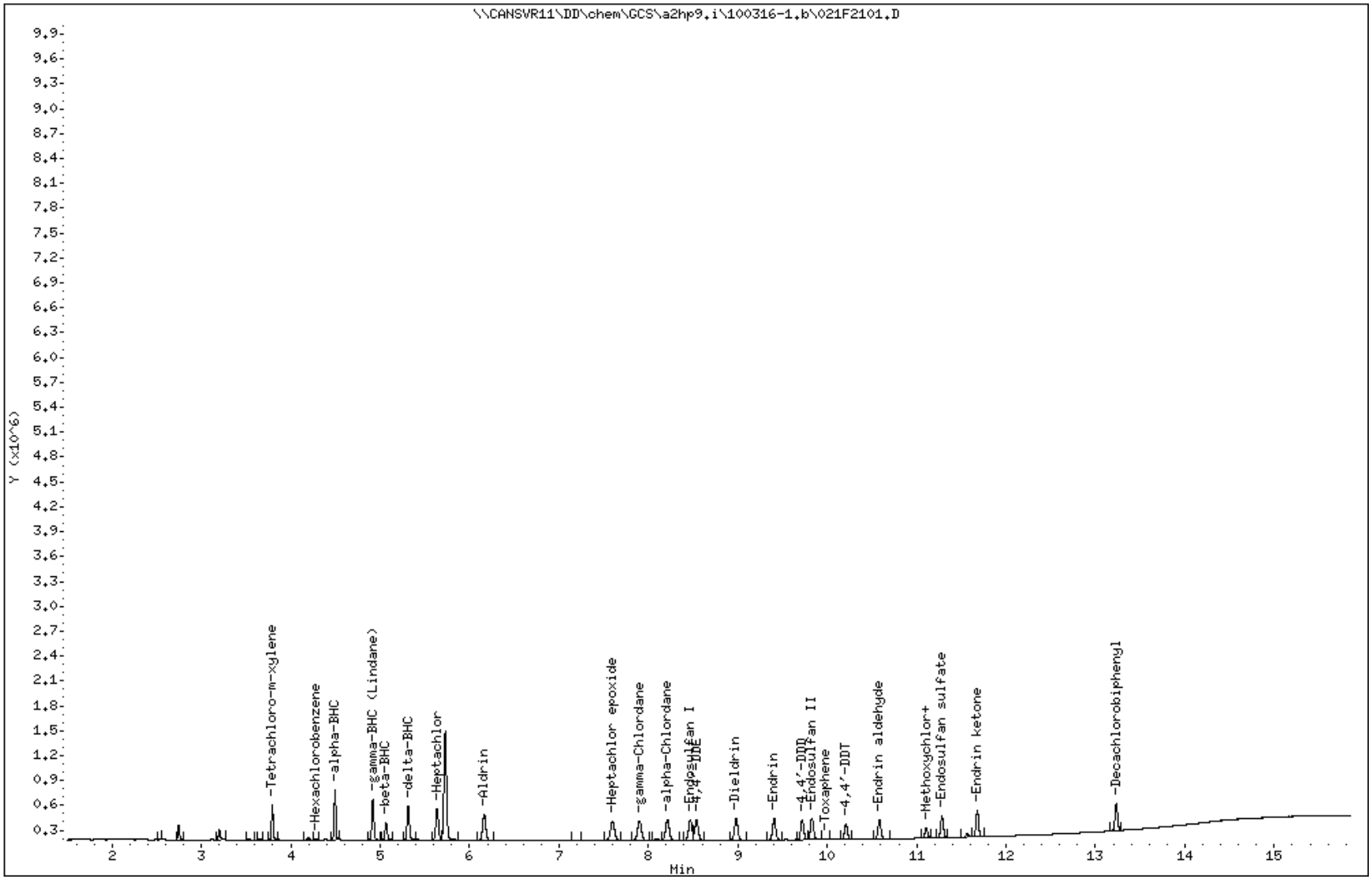
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 20:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/021F2101.D
Lab Sample ID: MRL
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.496	830784	0.005	0.005 ug/L
5) gamma-BHC (Lindane)	4.918	777633	0.005	0.005 ug/L
6) beta-BHC	5.066	364764	0.005	0.005 ug/L
7) delta-BHC	5.313	739237	0.004	0.004 ug/L
8) Heptachlor	5.637	794737	0.005	0.005 ug/L
10) Aldrin	6.163	759424	0.005	0.005 ug/L
12) Heptachlor epoxide	7.599	726270	0.005	0.005 ug/L
13) gamma-Chlordane	7.901	717757	0.005	0.005 ug/L
14) alpha-Chlordane	8.213	727502	0.005	0.005 ug/L
15) Endosulfan I	8.469	672008	0.005	0.005 ug/L
16) 4,4'-DDE	8.539	648894	0.005	0.005 ug/L
17) Dieldrin	8.981	681097	0.005	0.005 ug/L
18) Endrin	9.405	637447	0.005	0.005 ug/L
20) 4,4'-DDD	9.721	559818	0.005	0.005 ug/L
22) Endosulfan II	9.828	641136	0.005	0.005 ug/L
23) 4,4'-DDT	10.211	408398	0.004	0.004 ug/L
25) Endrin aldehyde	10.584	529725	0.005	0.005 ug/L
27) Methoxychlor	11.108	251138	0.005	0.005 ug/L
28) Endosulfan sulfate	11.283	561006	0.005	0.005 ug/L
29) Endrin ketone	11.678	661985	0.005	0.005 ug/L

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 17-MAR-2010 01:35
Lab File ID: 033F3301.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
24 Toxaphene(1)	1902709	1710330	1710330	0.010	10.11078	15.00000	Averaged	
(2)	1827689	1579634	1579634	0.010	13.57206	15.00000	Averaged	
(3)	1623385	1410636	1410636	0.010	13.10526	15.00000	Averaged	
(4)	2314679	1978210	1978210	0.010	14.53630	15.00000	Averaged	
(5)	2102694	1771401	1771401	0.010	15.75565	15.00000	Averaged	<-

Average %D / Drift Results.
Calculated Average %D/Drift = 13.41601
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\033F3301.D
Lab Smp Id: TOX3 G268
Inj Date : 17-MAR-2010 01:35
Operator : 093905   Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 01:47 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16   Cal File: 016F1601.D
Als bottle: 33   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
24 Toxaphene						CAS #: 8001-35-2		
9.949	9.949	0.000	1710330	1.00000	0.8989	80.00- 120.00		100.00
10.381	10.381	0.000	1579634	1.00000	0.8643	114.04- 154.04		92.36
10.529	10.529	0.000	1410636	1.00000	0.8689	115.64- 155.64		82.48
11.092	11.092	0.000	1978210	1.00000	0.8546	52.78- 92.78		115.66
11.197	11.197	0.000	1771401	1.00000	0.8424	69.36- 109.36		103.57
		Average of Peak Amounts =			0.86582			

Data File: \\CANSVR11\DD\chem\GCS\a2hp9.i\100316-1.b\033F3301.D

Page 1

Date : 17-MAR-2010 01:35

Client ID:

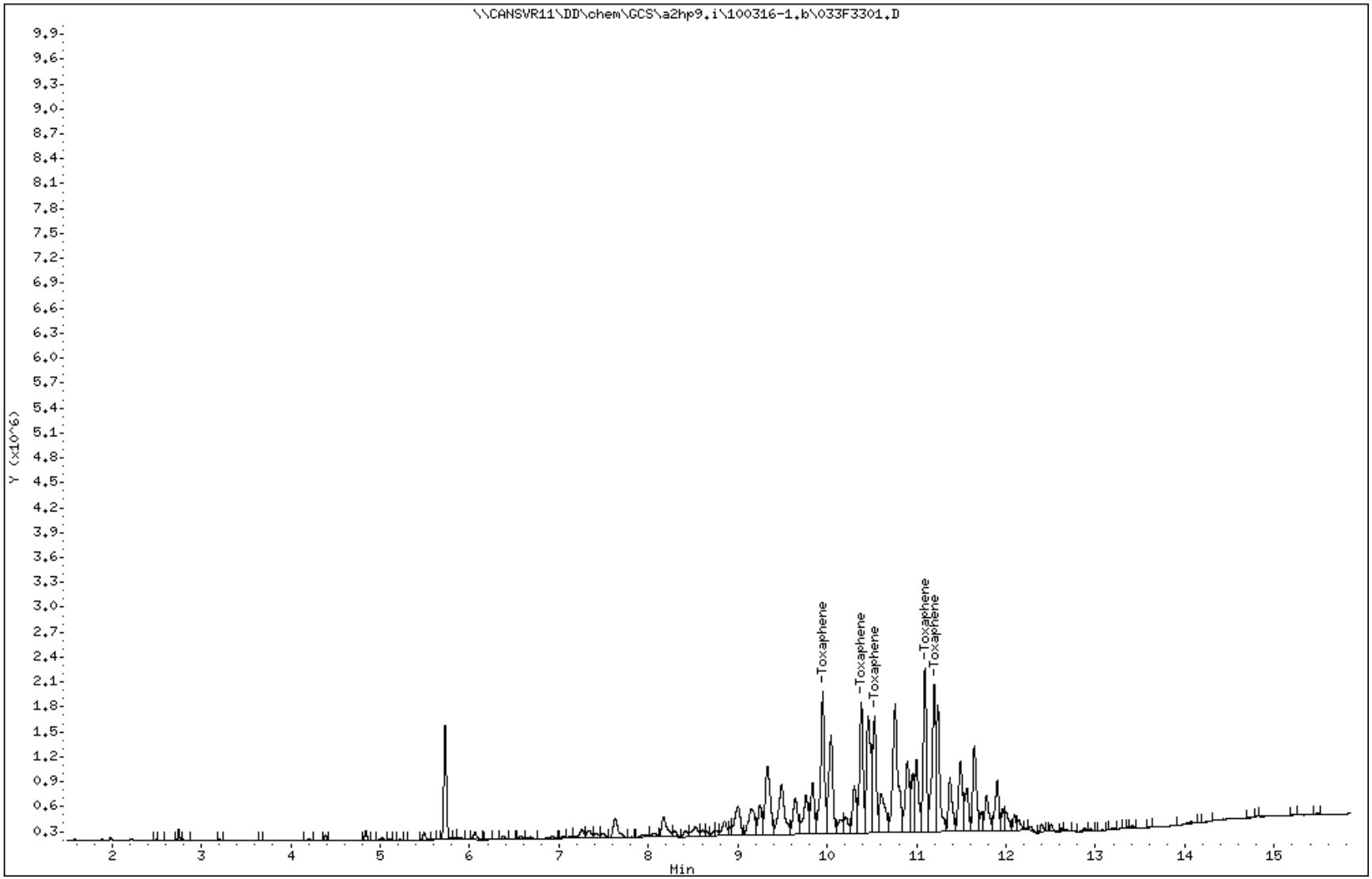
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 17-MAR-2010 01:35
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/033F3301.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.950	5076430	0.899	0.899

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 17-MAR-2010 01:58
Lab File ID: 034F3401.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	84173465	85191800	85191800	0.000	-1.20981	15.00000	Averaged
4 alpha-BHC	133126098	139097920	139097920	0.010	-4.48584	15.00000	Averaged
5 gamma-BHC (Lindane)	165088708	168376120	168376120	0.010	-1.99130	15.00000	Averaged
6 beta-BHC	40431668	40227760	40227760	0.010	0.50433	15.00000	Averaged
7 delta-BHC	165754598	169983680	169983680	0.010	-2.55141	15.00000	Averaged
8 Heptachlor	78731673	82662480	82662480	0.010	-4.99266	15.00000	Averaged
10 Aldrin	156923965	158096160	158096160	0.010	-0.74698	15.00000	Averaged
12 Heptachlor epoxide	46480680	47700840	47700840	0.010	-2.62509	15.00000	Averaged
13 gamma-Chlordane	49811115	50511280	50511280	0.010	-1.40564	15.00000	Averaged
14 alpha-Chlordane	51312584	52059120	52059120	0.010	-1.45488	15.00000	Averaged
15 Endosulfan I	48523034	49621400	49621400	0.010	-2.26360	15.00000	Averaged
16 4,4'-DDE	139823780	143002040	143002040	0.010	-2.27305	15.00000	Averaged
17 Dieldrin	143431818	145728640	145728640	0.010	-1.60133	15.00000	Averaged
18 Endrin	54486263	55677920	55677920	0.010	-2.18708	15.00000	Averaged
20 4,4'-DDD	117147756	120803760	120803760	0.010	-3.12085	15.00000	Averaged
22 Endosulfan II	52467042	52706760	52706760	0.010	-0.45689	15.00000	Averaged
23 4,4'-DDT	102138274	94159400	94159400	0.010	7.81184	15.00000	Averaged
25 Endrin aldehyde	44770833	43550840	43550840	0.010	2.72497	15.00000	Averaged
27 Methoxychlor	53449599	51279320	51279320	0.010	4.06042	15.00000	Averaged
28 Endosulfan sulfate	110718182	109094080	109094080	0.010	1.46688	15.00000	Averaged
29 Endrin ketone	63269941	63318800	63318800	0.010	-0.07722	15.00000	Averaged
$ 30 Decachlorobiphenyl	59416517	59285400	59285400	0.010	0.22067	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.28331
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\034F3401.D
Lab Smp Id: AB3 G252
Inj Date : 17-MAR-2010 01:58
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 02:10 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16   Cal File: 016F1601.D
Als bottle: 34   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.793	3.793	0.000	2129795	0.02500	0.02530		
4 alpha-BHC					CAS #: 319-84-6		
4.494	4.494	0.000	3477448	0.02500	0.02612		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.917	4.917	0.000	4209403	0.02500	0.02550		
6 beta-BHC					CAS #: 319-85-7		
5.065	5.065	0.000	1005694	0.02500	0.02487		
7 delta-BHC					CAS #: 319-86-8		
5.312	5.312	0.000	4249592	0.02500	0.02564		
	Sum of Peak Amounts =				0.02564		
8 Heptachlor					CAS #: 76-44-8		
5.636	5.636	0.000	2066562	0.02500	0.02625		
10 Aldrin					CAS #: 309-00-2		
6.162	6.162	0.000	3952404	0.02500	0.02519		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.598	7.598	0.000	1192521	0.02500	0.02566		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.899	7.899	0.000	1262782	0.02500	0.02535		
14 alpha-Chlordane					CAS #: 5103-71-9		

```
8.213    8.213    0.000         1301478 0.02500  0.02536
-------------------------------------------------------------------------------
   15 Endosulfan I                               CAS #: 959-98-8
8.468    8.468    0.000         1240535 0.02500  0.02556
-------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.537	8.537	0.000	3575051	0.02500	0.02557		
17 Dieldrin					CAS #: 60-57-1		
8.981	8.981	0.000	3643216	0.02500	0.02540		
18 Endrin					CAS #: 72-20-8		
9.405	9.405	0.000	1391948	0.02500	0.02555		
20 4,4'-DDD					CAS #: 72-54-8		
9.720	9.720	0.000	3020094	0.02500	0.02578		
22 Endosulfan II					CAS #: 33213-65-9		
9.828	9.828	0.000	1317669	0.02500	0.02511		
23 4,4'-DDT					CAS #: 50-29-3		
10.210	10.210	0.000	2353985	0.02500	0.02305		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.583	10.583	0.000	1088771	0.02500	0.02432		
27 Methoxychlor					CAS #: 72-43-5		
11.107	11.107	0.000	1281983	0.02500	0.02398		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.283	11.283	0.000	2727352	0.02500	0.02463		
29 Endrin ketone					CAS #: 53494-70-5		
11.678	11.678	0.000	1582970	0.02500	0.02502		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.232	13.232	0.000	1482135	0.02500	0.02494		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\034F3401.D

Date : 17-MAR-2010 01:58

Client ID:

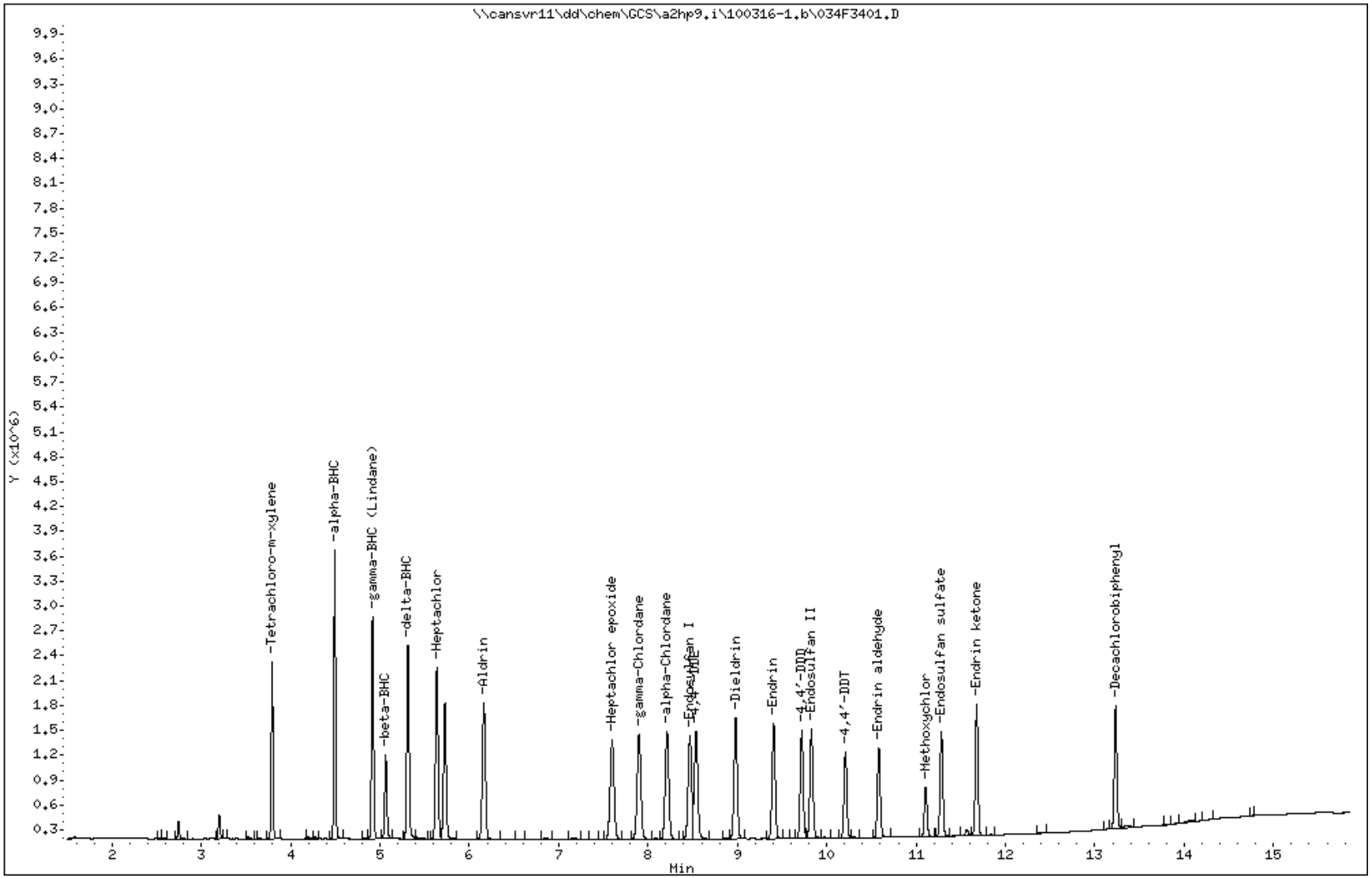
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 17-MAR-2010 01:58
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/034F3401.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.794	2819192	0.025	0.025
4) alpha-BHC	4.494	4747927	0.026	0.026
5) gamma-BHC (Lindane)	4.918	4209403	0.025	0.025
6) beta-BHC	5.065	1745949	0.025	0.025
7) delta-BHC	5.313	4249592	0.026	0.026
8) Heptachlor	5.637	4213900	0.026	0.026
10) Aldrin	6.163	3952404	0.025	0.025
12) Heptachlor epoxide	7.599	3664977	0.026	0.026
13) gamma-Chlordane	7.899	3724039	0.025	0.025
14) alpha-Chlordane	8.213	3692649	0.025	0.025
15) Endosulfan I	8.469	3406611	0.026	0.026
16) 4,4'-DDE	8.538	3575051	0.026	0.026
17) Dieldrin	8.982	3643216	0.025	0.025
18) Endrin	9.405	3410064	0.026	0.026
20) 4,4'-DDD	9.720	3020094	0.026	0.026
22) Endosulfan II	9.829	3219653	0.025	0.025
23) 4,4'-DDT	10.210	2353985	0.023	0.023
25) Endrin aldehyde	10.584	2511065	0.024	0.024
27) Methoxychlor	11.108	1281983	0.024	0.024
28) Endosulfan sulfate	11.284	2727352	0.025	0.025
29) Endrin ketone	11.679	3293391	0.025	0.025
30) Decachlorobiphenyl	13.233	3006903	0.025	0.025

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\035F3501.D Page 1
Report Date: 17-Mar-2010 14:36

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: METHSPIKE
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004808	96.17	70-130
5 gamma-BHC (Lindane	0.005000	0.004934	98.68	70-130
6 beta-BHC	0.005000	0.005348	106.95	70-130
7 delta-BHC	0.005000	0.004684	93.67	70-130
8 Heptachlor	0.005000	0.005099	101.98	70-130
10 Aldrin	0.005000	0.005045	100.90	70-130
12 Heptachlor epoxide	0.005000	0.005201	104.01	70-130
13 gamma-Chlordane	0.005000	0.004993	99.87	70-130
14 alpha-Chlordane	0.005000	0.005109	102.17	70-130
15 Endosulfan I	0.005000	0.005182	103.64	70-130
16 4,4'-DDE	0.005000	0.005017	100.34	70-130
17 Dieldrin	0.005000	0.004964	99.28	70-130
18 Endrin	0.005000	0.004892	97.84	70-130
20 4,4'-DDD	0.005000	0.005048	100.96	70-130
22 Endosulfan II	0.005000	0.005128	102.55	70-130
23 4,4'-DDT	0.005000	0.004232	84.63	70-130
25 Endrin aldehyde	0.005000	0.005238	104.77	70-130
27 Methoxychlor	0.005000	0.004973	99.47	70-130
28 Endosulfan sulfate	0.005000	0.005257	105.14	70-130
29 Endrin ketone	0.005000	0.005089	101.79	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\035F3501.D
Lab Smp Id: MRL
Inj Date : 17-MAR-2010 02:21
Operator : 093905   Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16   Cal File: 016F1601.D
Als bottle: 35   QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: mrl.sub
Target Version: 4.14   Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.493	4.495	-0.002	640113	0.00481	0.004808		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.917	4.919	-0.002	814584	0.00493	0.004934		
6 beta-BHC						CAS #: 319-85-7	
5.064	5.066	-0.002	216211	0.00535	0.005348		
7 delta-BHC						CAS #: 319-86-8	
5.312	5.314	-0.002	776332	0.00468	0.004684		
Sum of Peak Concentrations = 0.004684							
8 Heptachlor						CAS #: 76-44-8	
5.636	5.638	-0.002	401452	0.00510	0.005099		
10 Aldrin						CAS #: 309-00-2	
6.162	6.164	-0.002	791717	0.00505	0.005045		

```
--------------------------------------------------------------------------------
   12 Heptachlor epoxide                          CAS #: 1024-57-3
7.597    7.601   -0.004          241732 0.00520  0.005201
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
7.899	7.901	-0.002	248731	0.00499	0.004993		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.212	8.214	-0.002	262139	0.00511	0.005109		
15 Endosulfan I					CAS #: 959-98-8		
8.467	8.469	-0.002	251435	0.00518	0.005182		
16 4,4'-DDE					CAS #: 72-55-9		
8.538	8.540	-0.002	701502	0.00502	0.005017		
17 Dieldrin					CAS #: 60-57-1		
8.979	8.982	-0.003	712031	0.00496	0.004964		
18 Endrin					CAS #: 72-20-8		
9.405	9.407	-0.002	266536	0.00489	0.004892		
20 4,4'-DDD					CAS #: 72-54-8		
9.720	9.721	-0.001	591336	0.00505	0.005048		
22 Endosulfan II					CAS #: 33213-65-9		
9.828	9.830	-0.002	269032	0.00513	0.005128		
23 4,4'-DDT					CAS #: 50-29-3		
10.208	10.209	-0.001	432203	0.00423	0.004232		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.583	10.584	-0.001	234528	0.00524	0.005238		
27 Methoxychlor					CAS #: 72-43-5		
11.108	11.108	0.000	265827	0.00497	0.004973		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.283	11.284	-0.001	582065	0.00526	0.005257		
29 Endrin ketone					CAS #: 53494-70-5		
11.678	11.679	-0.001	322006	0.00509	0.005089		

Data File: \\CANSVR11\DD\chem\GCS\a2hp9.i\100316-1.b\035F3501.D

Page 1

Date : 17-MAR-2010 02:21

Client ID:

Instrument: a2hp9.i

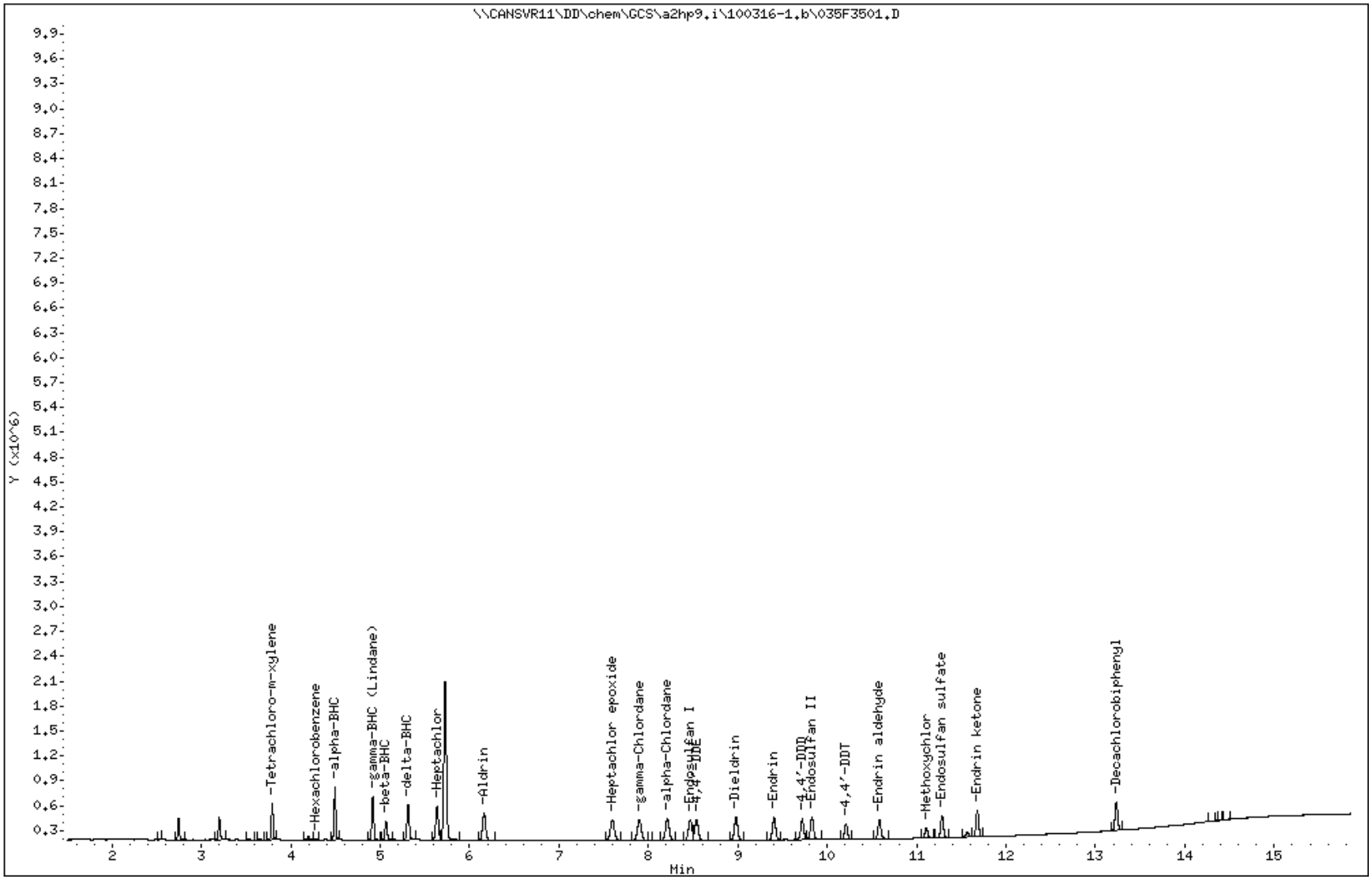
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 17-MAR-2010 02:21
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/035F3501.D
Lab Sample ID: MRL
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.494	872176	0.005	0.005 ug/L
5) gamma-BHC (Lindane)	4.917	814584	0.005	0.005 ug/L
6) beta-BHC	5.065	379906	0.005	0.005 ug/L
7) delta-BHC	5.312	776332	0.005	0.005 ug/L
8) Heptachlor	5.636	834237	0.005	0.005 ug/L
10) Aldrin	6.162	791717	0.005	0.005 ug/L
12) Heptachlor epoxide	7.597	757020	0.005	0.005 ug/L
13) gamma-Chlordane	7.900	750994	0.005	0.005 ug/L
14) alpha-Chlordane	8.212	759392	0.005	0.005 ug/L
15) Endosulfan I	8.467	706198	0.005	0.005 ug/L
16) 4,4'-DDE	8.538	701502	0.005	0.005 ug/L
17) Dieldrin	8.980	712031	0.005	0.005 ug/L
18) Endrin	9.406	668937	0.005	0.005 ug/L
20) 4,4'-DDD	9.721	591336	0.005	0.005 ug/L
22) Endosulfan II	9.828	669150	0.005	0.005 ug/L
23) 4,4'-DDT	10.209	432203	0.004	0.004 ug/L
25) Endrin aldehyde	10.584	543447	0.005	0.005 ug/L
27) Methoxychlor	11.108	265827	0.005	0.005 ug/L
28) Endosulfan sulfate	11.284	582065	0.005	0.005 ug/L
29) Endrin ketone	11.678	685089	0.005	0.005 ug/L

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b/043F4301.D
Report Date: 03/17/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 17-MAR-2010 05:23
Lab File ID: 043F4301.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
10.210	11015247	4,4'-DDT
8.5404	41462	4,4'-DDE
9.7203	714132	4,4'-DDD

Percent Degradation of 4,4'-DDT: 6.42

Endrin Degradation

RT	Area	Compound
9.4062	6503354	Endrin
10.582	207104	Endrin aldehyde
11.677	400279	Endrin ketone

Percent Degradation of Endrin: 8.54

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\043F4301.D
Lab Smp Id: PEM E006
Inj Date : 17-MAR-2010 05:23
Operator : 093905   Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16   Cal File: 016F1601.D
Als bottle: 43   QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 12-PEM.SUB
Target Version: 4.14   Sample Matrix: None

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.494	4.495	-0.001	1294524	0.00972	0.009724		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.917	4.919	-0.002	1630674	0.00988	0.009878		
6 beta-BHC						CAS #: 319-85-7	
5.066	5.066	0.000	386966	0.00957	0.009571		
16 4,4'-DDE						CAS #: 72-55-9	
8.540	8.540	0.000	41462	3.e-004	0.0002965		
18 Endrin						CAS #: 72-20-8	
9.406	9.407	-0.001	2624819	0.04817	0.04817		
20 4,4'-DDD						CAS #: 72-54-8	
9.720	9.721	-0.001	714132	0.00610	0.006096		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.210	10.209	0.001	11015247	0.10785	0.1078		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.582	10.584	-0.002	89142	0.00199	0.001991		
27 Methoxychlor						CAS #: 72-43-5	

```
11.107  11.108   -0.001        13541170 0.25334   0.2533
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.277  11.284   -0.007           31313  3e-004  0.0002828
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.677	11.679	-0.002	192987	0.00305	0.003050		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\043F4301.D

Date : 17-MAR-2010 05:23

Client ID:

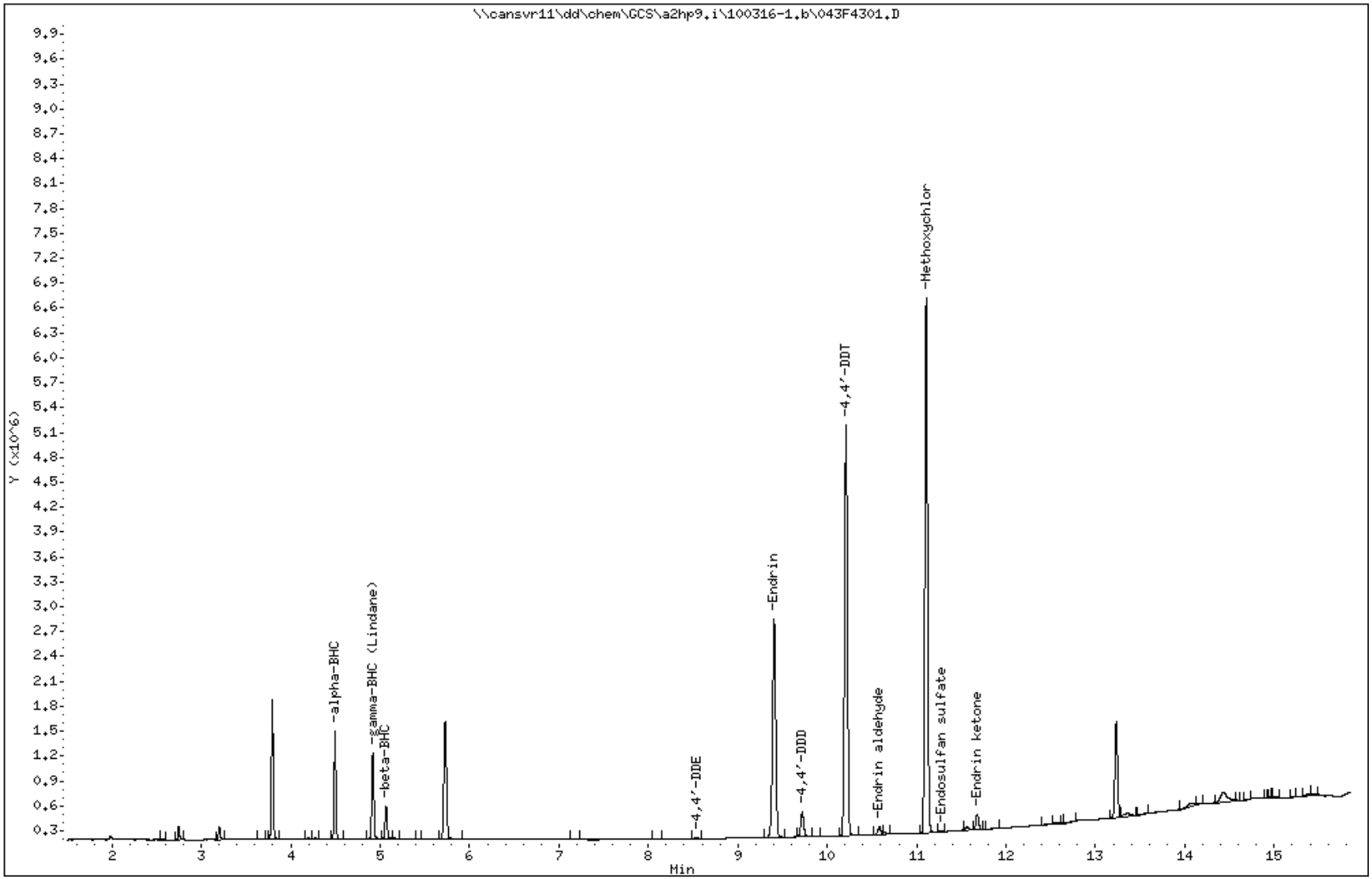
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 17-MAR-2010 05:23
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/043F4301.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.495	1780033	0.010	0.010
5) gamma-BHC (Lindane)	4.918	1630674	0.010	0.010
6) beta-BHC	5.066	681720	0.010	0.010
16) 4,4'-DDE	8.540	41462	0.000	0.000
18) Endrin	9.406	6503354	0.048	0.048
20) 4,4'-DDD	9.720	714132	0.006	0.006
22) Endosulfan II	NOT DETECTED Expected RT = 9.829			
23) 4,4'-DDT	10.210	11015247	0.108	0.108
25) Endrin aldehyde	10.582	207104	0.002	0.002
27) Methoxychlor	11.107	13541170	0.253	0.253
28) Endosulfan sulfate	11.277	31313	0.000	0.000
29) Endrin ketone	11.677	400279	0.003	0.003

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b/018F1801.D
Report Date: 03/17/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 16-MAR-2010 19:31
Lab File ID: 018F1801.D Lab Sample ID: PEM R006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
11.622	5389639	4,4'-DDT
10.169	38300	4,4'-DDE
11.139	360840	4,4'-DDD

Percent Degradation of 4,4'-DDT: 6.90

Endrin Degradation

RT	Area	Compound
10.822	3270839	Endrin
11.729	112667	Endrin aldehyde
12.888	267693	Endrin ketone

Percent Degradation of Endrin: 10.42

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\018F1801.D
Lab Smp Id: PEM R006
Inj Date : 16-MAR-2010 19:31
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM R006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 18 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSEMIGL

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.283	5.282	0.001	1007320	0.00936	0.009356		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.936	5.936	0.000	948190	0.00964	0.009641		
6 beta-BHC						CAS #: 319-85-7	
6.142	6.142	0.000	183248	0.01000	0.009996		
16 4,4'-DDE						CAS #: 72-55-9	
10.168	10.164	0.004	14527	0.00044	0.0004400		
18 Endrin						CAS #: 72-20-8	
10.821	10.819	0.002	3270839	0.04656	0.04656		
21 4,4'-DDD						CAS #: 72-54-8	
11.139	11.138	0.001	167338	0.00568	0.005679		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT						CAS #: 50-29-3	
11.621	11.620	0.001	2748949	0.10807	0.1081		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.728	11.727	0.001	112667	0.00208	0.002076		

```
   27 Methoxychlor                                CAS #: 72-43-5
12.671  12.669    0.002         6762094 0.25592   0.2559
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

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29 Endrin ketone CAS #: 53494-70-5

12.887	12.888	-0.001	267693	0.00385	0.003845		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\018F1801.D

Page 1

Date : 16-MAR-2010 19:31

Client ID:

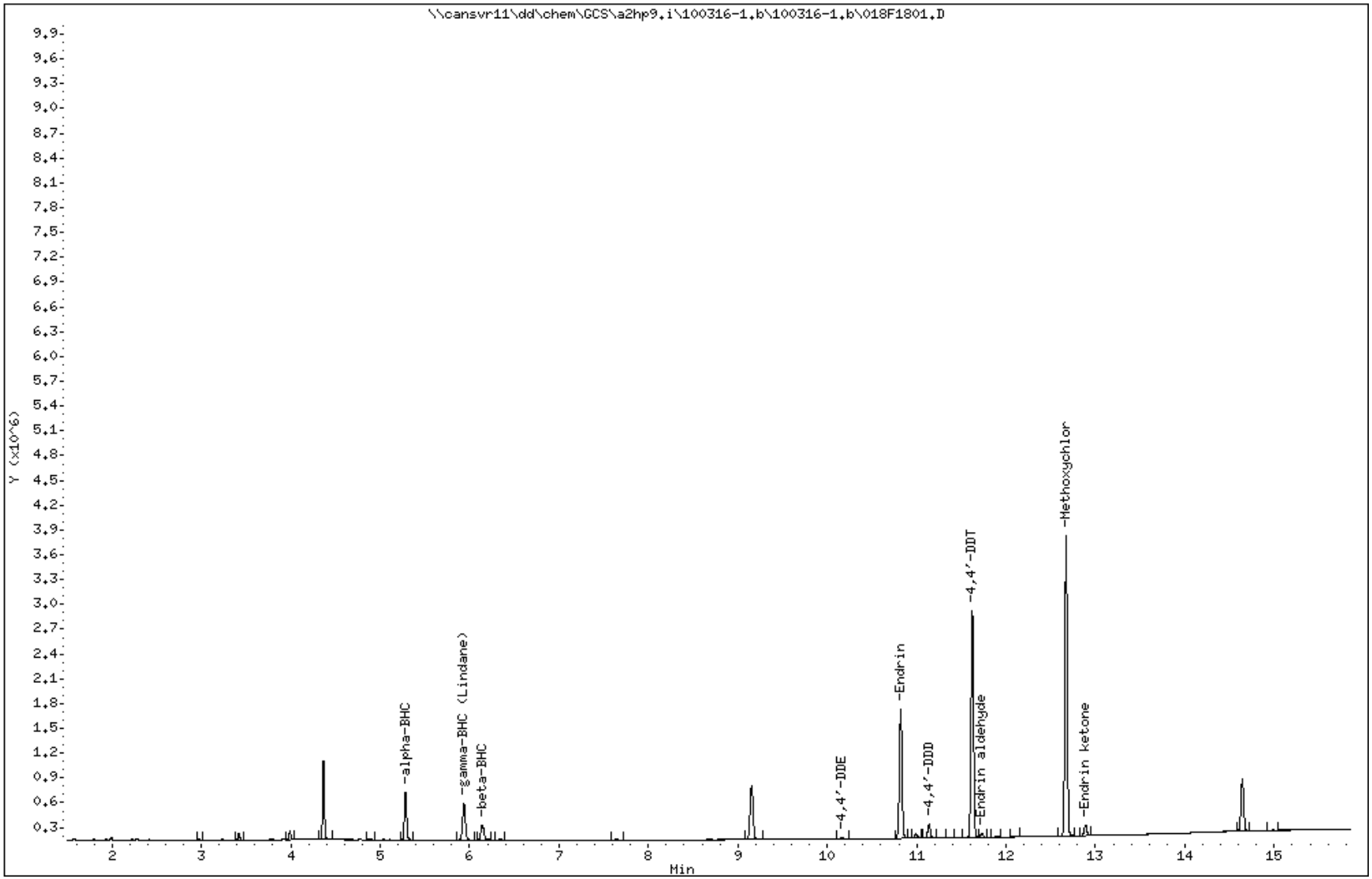
Instrument: a2hp9.i

Sample Info: PEM R006

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 19:31
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/100316-1.b/018F1801.D
Lab Sample ID: PEM R006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.284	1007320	0.009	0.009
5) gamma-BHC (Lindane)	5.937	948190	0.010	0.010
6) beta-BHC	6.143	448342	0.010	0.010
16) 4,4'-DDE	10.169	38300	0.000	0.000
18) Endrin	10.822	3270839	0.047	0.047
21) 4,4'-DDD	11.139	360840	0.006	0.006
22) Endosulfan II	NOT DETECTED	Expected RT = 11.183		
24) 4,4'-DDT	11.622	5389639	0.108	0.108
25) Endrin aldehyde	11.729	112667	0.002	0.002
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.151		
27) Methoxychlor	12.671	6762094	0.256	0.256
29) Endrin ketone	12.888	267693	0.004	0.004

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 16-MAR-2010 19:55
Lab File ID: 019F1901.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
23 Toxaphene(1)	1348963	1165880	1165880	0.010	13.57216	15.00000	Averaged	
(2)	636269	536426	536426	0.010	15.69188	15.00000	Averaged	<-
(3)	1258482	1072678	1072678	0.010	14.76415	15.00000	Averaged	
(4)	1158548	987409	987409	0.010	14.77182	15.00000	Averaged	
(5)	563226	475019	475019	0.010	15.66104	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 14.89221
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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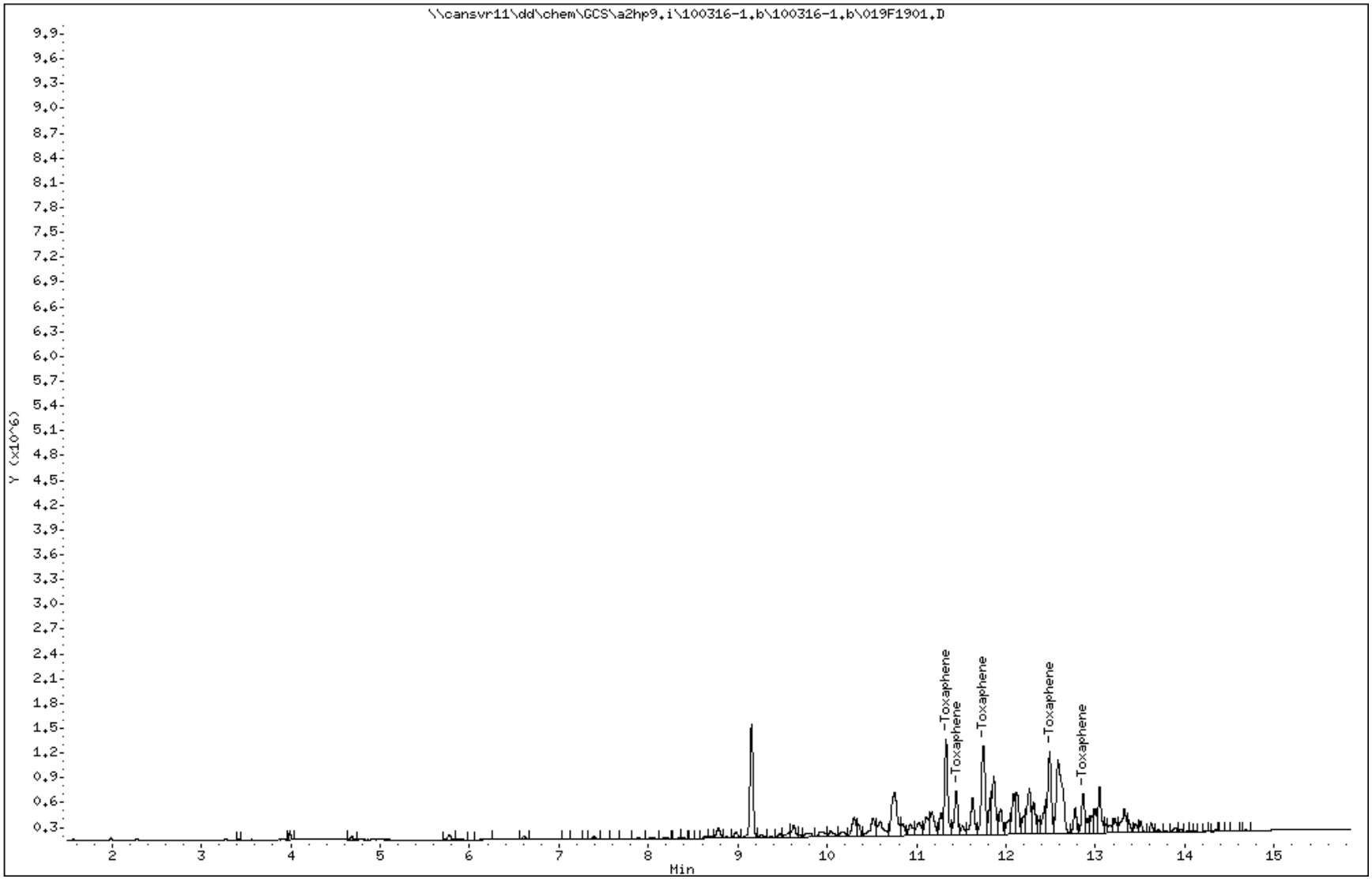
PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\019F1901.D
Lab Smp Id: TOX3 G268
Inj Date : 16-MAR-2010 19:55
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 20:07 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 19 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.329	11.329	0.000	1165880	1.00000	0.8643	80.00- 120.00	100.00
11.443	11.443	0.000	536426	1.00000	0.8431	114.04- 154.04	46.01
11.743	11.743	0.000	1072678	1.00000	0.8524	115.64- 155.64	92.01
12.487	12.487	0.000	987409	1.00000	0.8523	52.78- 92.78	84.69
12.862	12.862	0.000	475019	1.00000	0.8434	69.36- 109.36	40.74
		Average of Peak Amounts =			0.85110		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\019F1901.D Page 1
Date : 16-MAR-2010 19:55
Client ID:
Sample Info: TOX3 G268,,2
Instrument: a2hp9.i
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 19:55
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\019F1901.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.330	2906145	0.864	0.864

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 16-MAR-2010 20:18
Lab File ID: 020F2001.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	48900426	48441960	48441960	0.000	0.93755	15.00000	Averaged
4 alpha-BHC	107670684	109280680	109280680	0.010	-1.49530	15.00000	Averaged
5 gamma-BHC (Lindane)	98347928	99299040	99299040	0.010	-0.96709	15.00000	Averaged
6 beta-BHC	18332186	18274760	18274760	0.010	0.31325	15.00000	Averaged
7 delta-BHC	98057548	98629560	98629560	0.010	-0.58334	15.00000	Averaged
8 Heptachlor	94940530	95639560	95639560	0.010	-0.73628	15.00000	Averaged
10 Aldrin	30014083	29838000	29838000	0.010	0.58667	15.00000	Averaged
12 Heptachlor epoxide	81103319	82129960	82129960	0.010	-1.26584	15.00000	Averaged
13 gamma-Chlordane	81149805	80905200	80905200	0.010	0.30142	15.00000	Averaged
14 alpha-Chlordane	79210359	79412280	79412280	0.010	-0.25492	15.00000	Averaged
15 Endosulfan I	74347394	74742560	74742560	0.010	-0.53151	15.00000	Averaged
16 4,4'-DDE	33013501	33208000	33208000	0.010	-0.58915	15.00000	Averaged
17 Dieldrin	76819176	76143480	76143480	0.010	0.87959	15.00000	Averaged
18 Endrin	70247174	70286120	70286120	0.010	-0.05544	15.00000	Averaged
21 4,4'-DDD	29466884	30446680	30446680	0.010	-3.32507	15.00000	Averaged
22 Endosulfan II	32303936	32397560	32397560	0.010	-0.28982	15.00000	Averaged
24 4,4'-DDT	25436776	24548600	24548600	0.010	3.49170	15.00000	Averaged
25 Endrin aldehyde	54259043	54004600	54004600	0.010	0.46894	15.00000	Averaged
26 Endosulfan sulfate	29982247	29651600	29651600	0.010	1.10281	15.00000	Averaged
27 Methoxychlor	26422638	26096600	26096600	0.010	1.23394	15.00000	Averaged
29 Endrin ketone	69615319	72981320	72981320	0.010	-4.83514	15.00000	Averaged
$ 30 Decachlorobiphenyl	64117263	66788800	66788800	0.010	-4.16664	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.29143
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\020F2001.D
Lab Smp Id: AB3 G252
Inj Date : 16-MAR-2010 20:18
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 20:30 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 20 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.365	4.365	0.000	1211049	0.02500	0.02476		
4 alpha-BHC						CAS #: 319-84-6	
5.283	5.283	0.000	2732017	0.02500	0.02537		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.936	5.936	0.000	2482476	0.02500	0.02524		
6 beta-BHC						CAS #: 319-85-7	
6.141	6.141	0.000	456869	0.02500	0.02492		
7 delta-BHC						CAS #: 319-86-8	
6.796	6.796	0.000	2465739	0.02500	0.02514		
8 Heptachlor						CAS #: 76-44-8	
6.913	6.913	0.000	2390989	0.02500	0.02518		
10 Aldrin						CAS #: 309-00-2	
7.738	7.738	0.000	745950	0.02500	0.02485		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.085	9.085	0.000	2053249	0.02500	0.02532		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.471	9.471	0.000	2022630	0.02500	0.02492		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.758	9.758	0.000	1985307	0.02500	0.02506		

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--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.822    9.822    0.000         1868564 0.02500  0.02513
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.165	10.165	0.000	830200	0.02500	0.02515		
17 Dieldrin					CAS #: 60-57-1		
10.319	10.319	0.000	1903587	0.02500	0.02478		
18 Endrin					CAS #: 72-20-8		
10.821	10.821	0.000	1757153	0.02500	0.02501		
21 4,4'-DDD					CAS #: 72-54-8		
11.138	11.138	0.000	761167	0.02500	0.02583		
22 Endosulfan II					CAS #: 33213-65-9		
11.182	11.182	0.000	809939	0.02500	0.02507		
24 4,4'-DDT					CAS #: 50-29-3		
11.621	11.621	0.000	613715	0.02500	0.02413		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.728	11.728	0.000	1350115	0.02500	0.02488		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.150	12.150	0.000	741290	0.02500	0.02472		
27 Methoxychlor					CAS #: 72-43-5		
12.669	12.669	0.000	652415	0.02500	0.02469		
29 Endrin ketone					CAS #: 53494-70-5		
12.888	12.888	0.000	1824533	0.02500	0.02621		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.641	14.641	0.000	1669720	0.02500	0.02604		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\020F2001.D

Page 1

Date : 16-MAR-2010 20:18

Client ID:

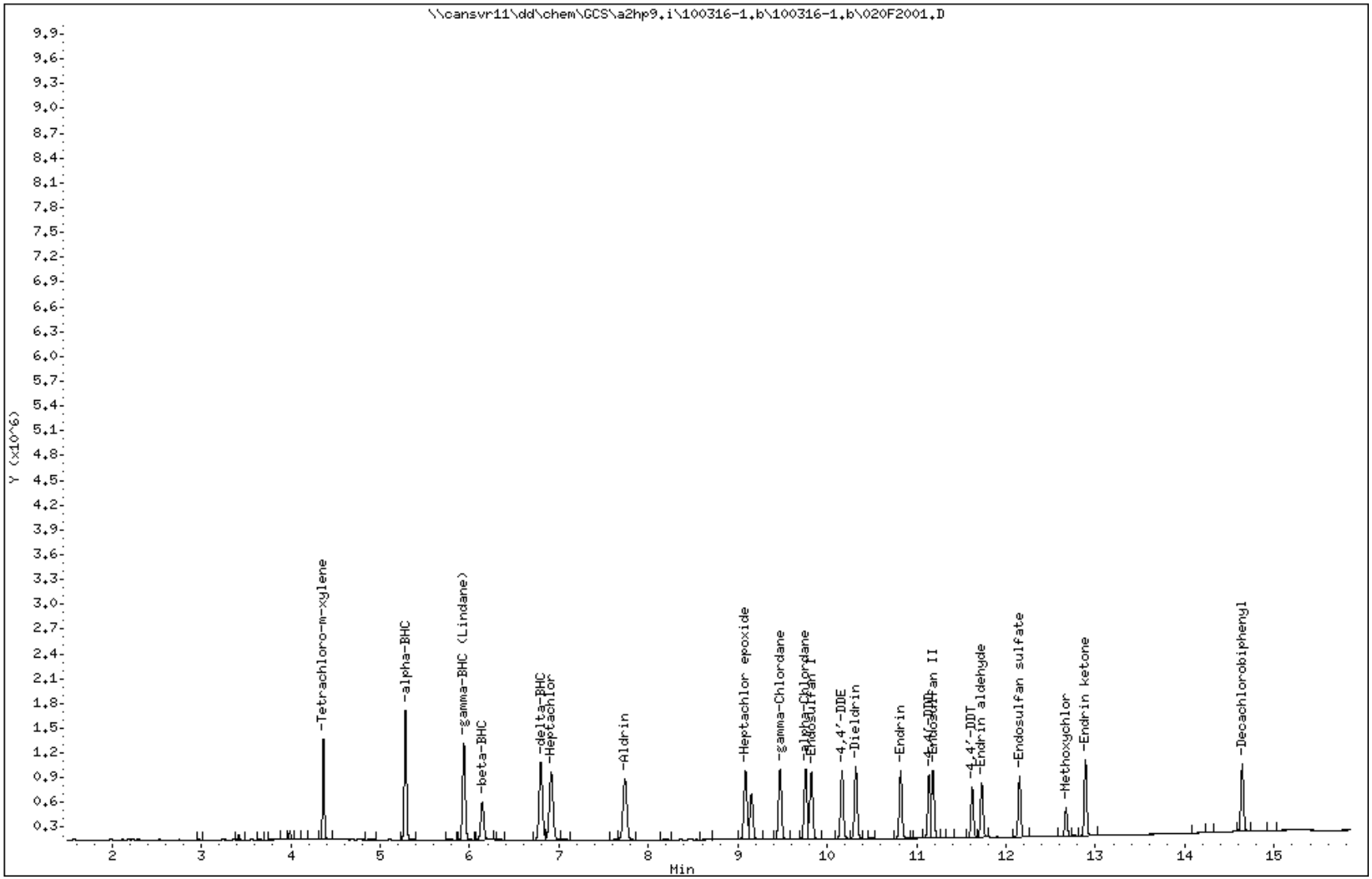
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 20:18
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\020F2001.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.365	1653032	0.025	0.025
4) alpha-BHC	5.283	2732017	0.025	0.025
5) gamma-BHC (Lindane)	5.936	2482476	0.025	0.025
6) beta-BHC	6.141	1105266	0.025	0.025
7) delta-BHC	6.796	2465739	0.025	0.025
8) Heptachlor	6.913	2390989	0.025	0.025
10) Aldrin	7.738	2271739	0.025	0.025
12) Heptachlor epoxide	9.085	2053249	0.025	0.025
13) gamma-Chlordane	9.471	2022630	0.025	0.025
14) alpha-Chlordane	9.758	1985307	0.025	0.025
15) Endosulfan I	9.822	1868564	0.025	0.025
16) 4,4'-DDE	10.166	1814756	0.025	0.025
17) Dieldrin	10.320	1903587	0.025	0.025
18) Endrin	10.821	1757153	0.025	0.025
21) 4,4'-DDD	11.138	1525940	0.026	0.026
22) Endosulfan II	11.182	1692140	0.025	0.025
24) 4,4'-DDT	11.621	1197360	0.024	0.024
25) Endrin aldehyde	11.728	1350115	0.025	0.025
26) Endosulfan sulfate	12.151	1493237	0.025	0.025
27) Methoxychlor	12.670	652415	0.025	0.025
29) Endrin ketone	12.889	1824533	0.026	0.026
30) Decachlorobiphenyl	14.641	1669720	0.026	0.026

Report Date: 17-Mar-2010 14:47

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: METHSPIKE
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004624	92.47	70-130
5 gamma-BHC (Lindane	0.005000	0.004804	96.08	70-130
6 beta-BHC	0.005000	0.005536	110.72	70-130
7 delta-BHC	0.005000	0.004621	92.42	70-130
8 Heptachlor	0.005000	0.005052	101.03	70-130
10 Aldrin	0.005000	0.004751	95.02	70-130
12 Heptachlor epoxide	0.005000	0.005138	102.75	70-130
13 gamma-Chlordane	0.005000	0.005013	100.26	70-130
14 alpha-Chlordane	0.005000	0.005071	101.42	70-130
15 Endosulfan I	0.005000	0.005152	103.04	70-130
16 4,4'-DDE	0.005000	0.004674	93.47	70-130
17 Dieldrin	0.005000	0.004857	97.15	70-130
18 Endrin	0.005000	0.004813	96.25	70-130
21 4,4'-DDD	0.005000	0.004847	96.94	70-130
22 Endosulfan II	0.005000	0.005008	100.15	70-130
24 4,4'-DDT	0.005000	0.004035	80.70	70-130
25 Endrin aldehyde	0.005000	0.005446	108.92	70-130
26 Endosulfan sulfate	0.005000	0.005048	100.96	70-130
27 Methoxychlor	0.005000	0.004714	94.28	70-130
29 Endrin ketone	0.005000	0.005217	104.34	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\021F2101.D
Lab Smp Id: MRL
Inj Date : 16-MAR-2010 20:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 21 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSEMIGL

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
4 alpha-BHC					CAS #: 319-84-6		
5.283	5.282	0.001	497828	0.00462	0.004624		
55 DDD/Endosulfan II					CAS #: 72-54-8/332-65-		
Compound Not Detected							
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.936	5.936	0.000	472451	0.00480	0.004804		
6 beta-BHC					CAS #: 319-85-7		
6.143	6.142	0.001	101490	0.00554	0.005536		
7 delta-BHC					CAS #: 319-86-8		
6.797	6.796	0.001	453121	0.00462	0.004621		
8 Heptachlor					CAS #: 76-44-8		

```
6.913    6.913    0.000          479603 0.00505  0.005052
--------------------------------------------------------------------------------
   10 Aldrin                                      CAS #: 309-00-2
7.738    7.737    0.001          142604 0.00475  0.004751
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.085	9.084	0.001	416682	0.00514	0.005138		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.472	9.471	0.001	406821	0.00501	0.005013		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.758	9.757	0.001	401671	0.00507	0.005071		
15 Endosulfan I					CAS #: 959-98-8		
9.822	9.821	0.001	383044	0.00515	0.005152		
16 4,4'-DDE					CAS #: 72-55-9		
10.164	10.164	0.000	154296	0.00467	0.004674		
17 Dieldrin					CAS #: 60-57-1		
10.320	10.319	0.001	373130	0.00486	0.004857		
18 Endrin					CAS #: 72-20-8		
10.819	10.819	0.000	338072	0.00481	0.004813		
21 4,4'-DDD					CAS #: 72-54-8		
11.138	11.138	0.000	142819	0.00485	0.004847		
22 Endosulfan II					CAS #: 33213-65-9		
11.180	11.181	-0.001	161770	0.00501	0.005008		
24 4,4'-DDT					CAS #: 50-29-3		
11.621	11.620	0.001	102643	0.00404	0.004035		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.728	11.727	0.001	295507	0.00545	0.005446		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.150	12.150	0.000	151350	0.00505	0.005048		
27 Methoxychlor					CAS #: 72-43-5		
12.670	12.669	0.001	124554	0.00471	0.004714		
29 Endrin ketone					CAS #: 53494-70-5		
12.888	12.888	0.000	363166	0.00522	0.005217		

Data File: \\CANSVR11\DD\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\021F2101.D

Page 1

Date : 16-MAR-2010 20:42

Client ID:

Instrument: a2hp9.i

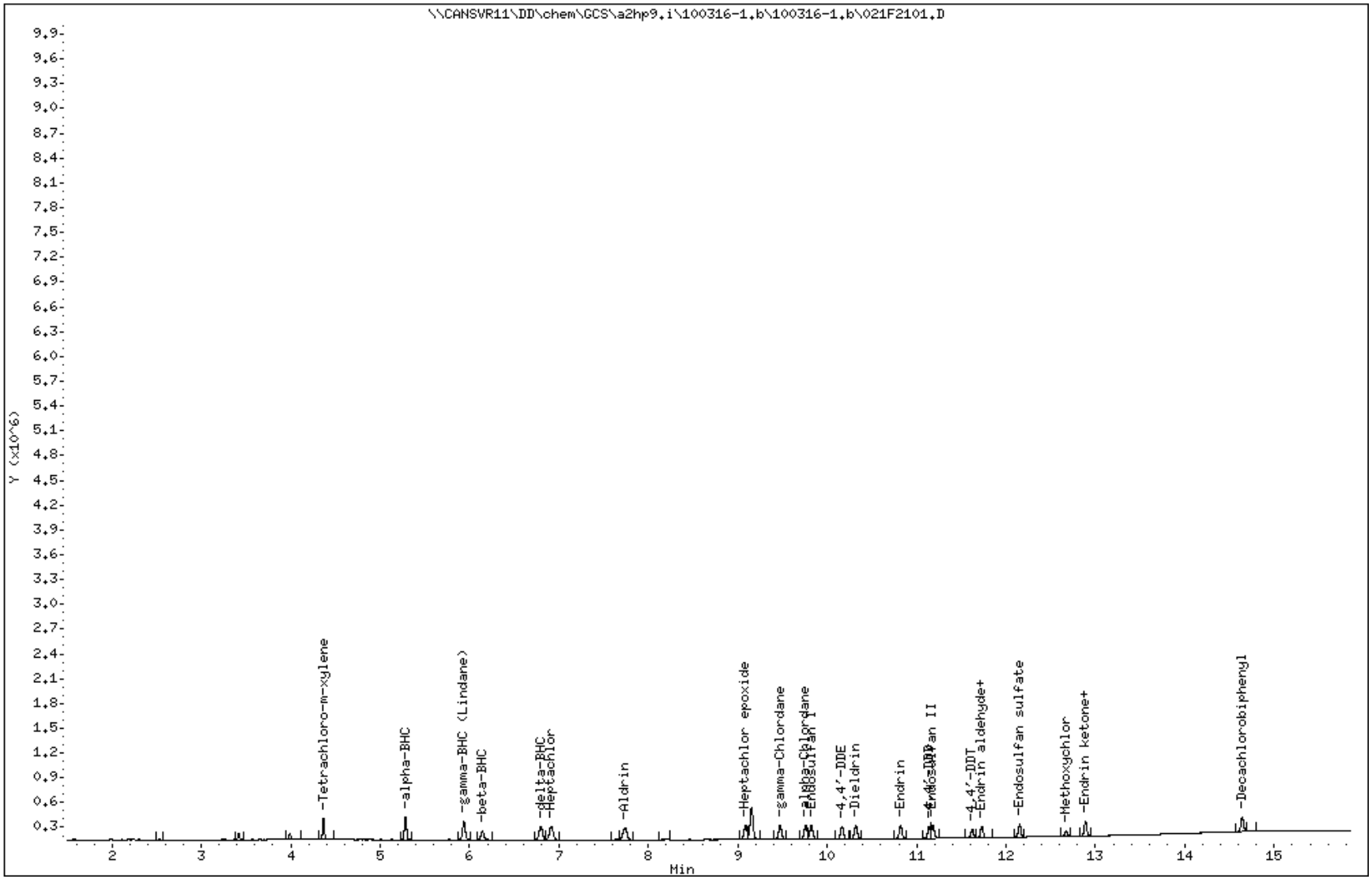
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 20:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/100316-1.b/021F2101.D
Lab Sample ID: MRL
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.283	497828	0.005	0.005 ug/L
5) gamma-BHC (Lindane)	5.937	472451	0.005	0.005 ug/L
6) beta-BHC	6.143	254697	0.006	0.006 ug/L
7) delta-BHC	6.797	453121	0.005	0.005 ug/L
8) Heptachlor	6.913	479603	0.005	0.005 ug/L
10) Aldrin	7.738	451211	0.005	0.005 ug/L
12) Heptachlor epoxide	9.086	416682	0.005	0.005 ug/L
13) gamma-Chlordane	9.472	406821	0.005	0.005 ug/L
14) alpha-Chlordane	9.758	401671	0.005	0.005 ug/L
15) Endosulfan I	9.822	383044	0.005	0.005 ug/L
16) 4,4'-DDE	10.165	353769	0.005	0.005 ug/L
17) Dieldrin	10.321	373130	0.005	0.005 ug/L
18) Endrin	10.820	338072	0.005	0.005 ug/L
55) DDD/Endosulfan II	NOT DETECTED	Expected RT = 10.879		
21) 4,4'-DDD	11.138	291049	0.005	0.005 ug/L
22) Endosulfan II	11.181	353740	0.005	0.005 ug/L
24) 4,4'-DDT	11.622	210885	0.004	0.004 ug/L
25) Endrin aldehyde	11.728	295507	0.005	0.005 ug/L
26) Endosulfan sulfate	12.151	305845	0.005	0.005 ug/L
27) Methoxychlor	12.671	124554	0.005	0.005 ug/L
29) Endrin ketone	12.888	363166	0.005	0.005 ug/L

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 17-MAR-2010 01:35
Lab File ID: 033F3301.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
23 Toxaphene(1)	1348963	1193869	1193869	0.010	11.49730	15.00000	Averaged	
(2)	636269	539459	539459	0.010	15.21520	15.00000	Averaged	<-
(3)	1258482	1089959	1089959	0.010	13.39099	15.00000	Averaged	
(4)	1158548	999376	999376	0.010	13.73889	15.00000	Averaged	
(5)	563226	477155	477155	0.010	15.28180	15.00000	Averaged	<-

Average %D / Drift Results.
Calculated Average %D/Drift = 13.82484
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\033F3301.D
Lab Smp Id: TOX3 G268
Inj Date : 17-MAR-2010 01:35
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 01:47 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.328	11.328	0.000	1193869	1.00000	0.8850	80.00- 120.00	100.00
11.442	11.442	0.000	539459	1.00000	0.8478	114.04- 154.04	45.19
11.743	11.743	0.000	1089959	1.00000	0.8661	115.64- 155.64	91.30
12.486	12.486	0.000	999376	1.00000	0.8626	52.78- 92.78	83.71
12.861	12.861	0.000	477155	1.00000	0.8472	69.36- 109.36	39.97
		Average of Peak Amounts =			0.86174		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\033F3301.D

Page 1

Date : 17-MAR-2010 01:35

Client ID:

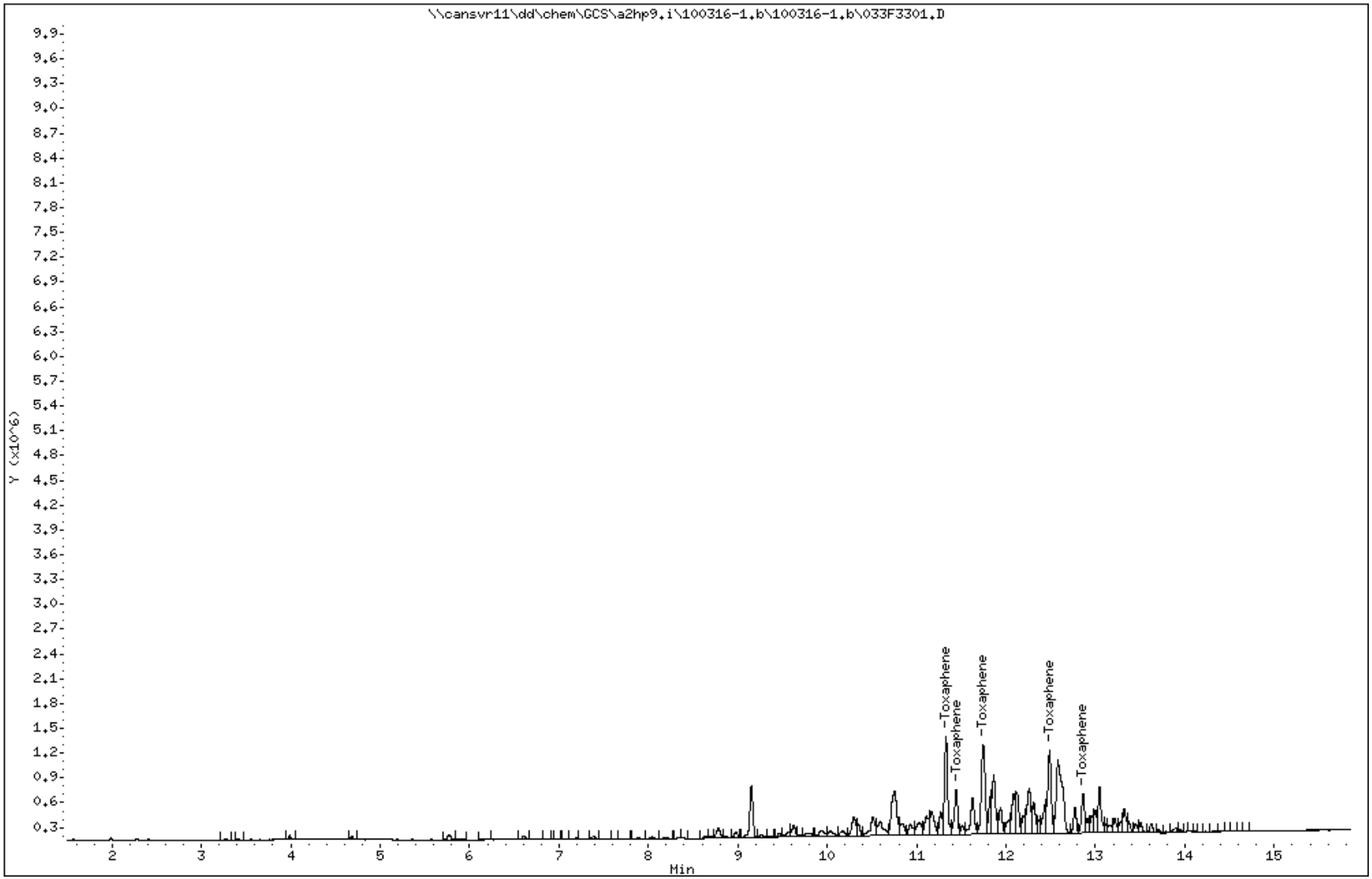
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 17-MAR-2010 01:35
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\033F3301.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.329	2956772	0.885	0.885

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 17-MAR-2010 01:58
Lab File ID: 034F3401.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	48900426	48527360	48527360	0.000	0.76291	15.00000	Averaged
4 alpha-BHC	107670684	108970680	108970680	0.010	-1.20738	15.00000	Averaged
5 gamma-BHC (Lindane)	98347928	99147800	99147800	0.010	-0.81331	15.00000	Averaged
6 beta-BHC	18332186	18363840	18363840	0.010	-0.17267	15.00000	Averaged
7 delta-BHC	98057548	99120200	99120200	0.010	-1.08370	15.00000	Averaged
8 Heptachlor	94940530	96102640	96102640	0.010	-1.22404	15.00000	Averaged
10 Aldrin	30014083	30009640	30009640	0.010	0.01480	15.00000	Averaged
12 Heptachlor epoxide	81103319	82955240	82955240	0.010	-2.28341	15.00000	Averaged
13 gamma-Chlordane	81149805	81659200	81659200	0.010	-0.62772	15.00000	Averaged
14 alpha-Chlordane	79210359	80074440	80074440	0.010	-1.09087	15.00000	Averaged
15 Endosulfan I	74347394	75204840	75204840	0.010	-1.15330	15.00000	Averaged
16 4,4'-DDE	33013501	33591240	33591240	0.010	-1.75001	15.00000	Averaged
17 Dieldrin	76819176	77026360	77026360	0.010	-0.26970	15.00000	Averaged
18 Endrin	70247174	71025400	71025400	0.010	-1.10784	15.00000	Averaged
21 4,4'-DDD	29466884	30744000	30744000	0.010	-4.33407	15.00000	Averaged
22 Endosulfan II	32303936	32638200	32638200	0.010	-1.03475	15.00000	Averaged
24 4,4'-DDT	25436776	23365800	23365800	0.010	8.14166	15.00000	Averaged
25 Endrin aldehyde	54259043	54122680	54122680	0.010	0.25132	15.00000	Averaged
26 Endosulfan sulfate	29982247	29307800	29307800	0.010	2.24949	15.00000	Averaged
27 Methoxychlor	26422638	24955240	24955240	0.010	5.55356	15.00000	Averaged
29 Endrin ketone	69615319	70390640	70390640	0.010	-1.11372	15.00000	Averaged
$ 30 Decachlorobiphenyl	64117263	65539080	65539080	0.010	-2.21753	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.74808
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\034F3401.D
Lab Smp Id: AB3 G252
Inj Date : 17-MAR-2010 01:58
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 02:10 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 34 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.366	4.366	0.000	1213184	0.02500	0.02481		
4 alpha-BHC						CAS #: 319-84-6	
5.281	5.281	0.000	2724267	0.02500	0.02530		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.936	5.936	0.000	2478695	0.02500	0.02520		
6 beta-BHC						CAS #: 319-85-7	
6.141	6.141	0.000	459096	0.02500	0.02504		
7 delta-BHC						CAS #: 319-86-8	
6.795	6.795	0.000	2478005	0.02500	0.02527		
8 Heptachlor						CAS #: 76-44-8	
6.911	6.911	0.000	2402566	0.02500	0.02531		
10 Aldrin						CAS #: 309-00-2	
7.736	7.736	0.000	750241	0.02500	0.02500		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.085	9.085	0.000	2073881	0.02500	0.02557		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.471	9.471	0.000	2041480	0.02500	0.02516		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.756	9.756	0.000	2001861	0.02500	0.02527		

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--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.821    9.821    0.000         1880121 0.02500  0.02529
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
	16 4,4'-DDE				CAS #: 72-55-9		
10.164	10.164	0.000	839781	0.02500	0.02544		
	17 Dieldrin				CAS #: 60-57-1		
10.318	10.318	0.000	1925659	0.02500	0.02507		
	18 Endrin				CAS #: 72-20-8		
10.820	10.820	0.000	1775635	0.02500	0.02528		
	21 4,4'-DDD				CAS #: 72-54-8		
11.137	11.137	0.000	768600	0.02500	0.02608		
	22 Endosulfan II				CAS #: 33213-65-9		
11.180	11.180	0.000	815955	0.02500	0.02526		
	24 4,4'-DDT				CAS #: 50-29-3		
11.620	11.620	0.000	584145	0.02500	0.02296		
	25 Endrin aldehyde				CAS #: 7421-93-4		
11.726	11.726	0.000	1353067	0.02500	0.02494		
	26 Endosulfan sulfate				CAS #: 1031-07-8		
12.150	12.150	0.000	732695	0.02500	0.02444		
	27 Methoxychlor				CAS #: 72-43-5		
12.670	12.670	0.000	623881	0.02500	0.02361		
	29 Endrin ketone				CAS #: 53494-70-5		
12.887	12.887	0.000	1759766	0.02500	0.02528		
$	30 Decachlorobiphenyl				CAS #: 2051-24-3		
14.641	14.641	0.000	1638477	0.02500	0.02555		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\034F3401.D

Date : 17-MAR-2010 01:58

Client ID:

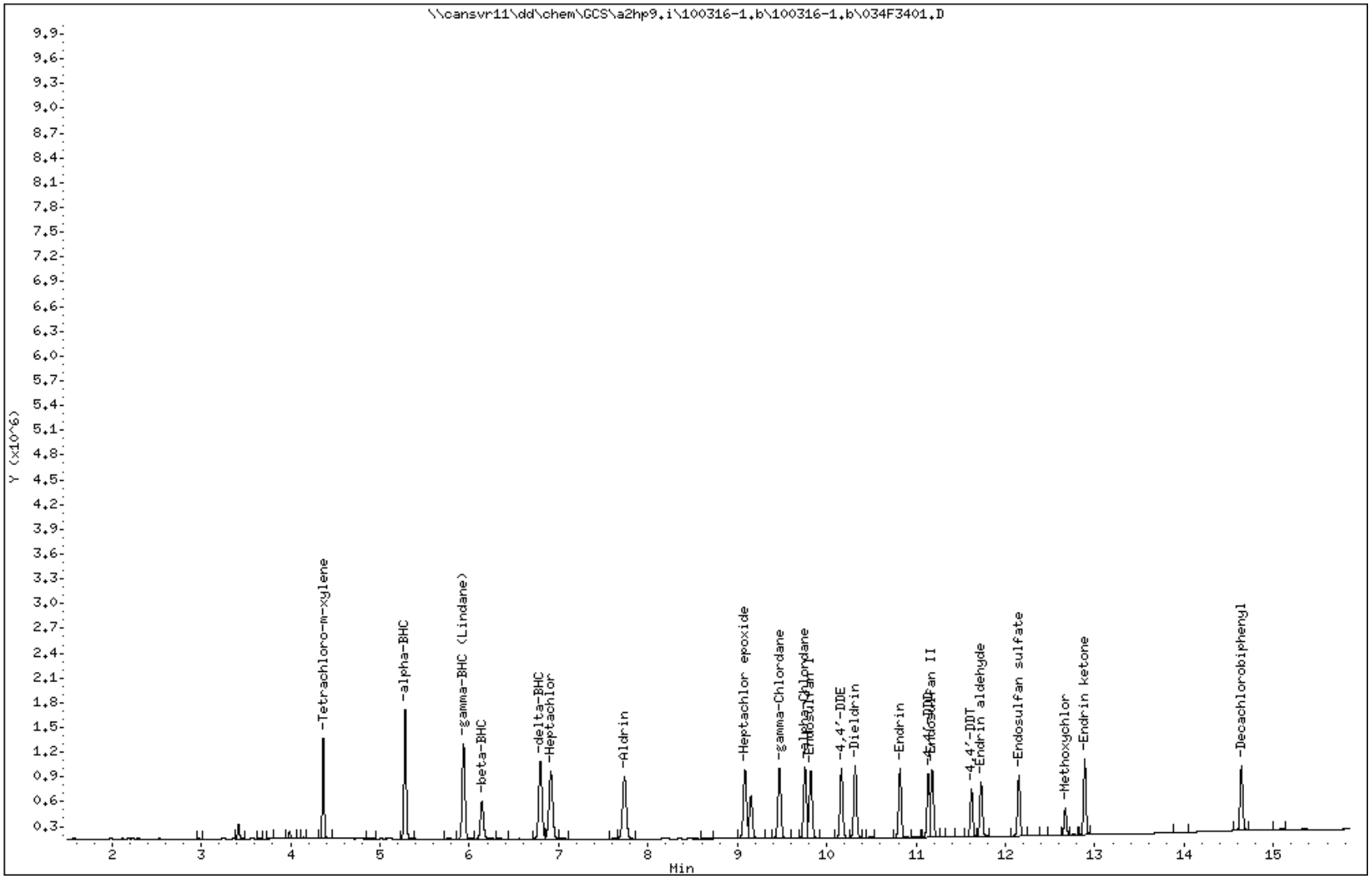
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 17-MAR-2010 01:58
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\034F3401.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.366	1642544	0.025	0.025
4)	alpha-BHC	5.282	2724267	0.025	0.025
5)	gamma-BHC (Lindane)	5.936	2478695	0.025	0.025
6)	beta-BHC	6.141	1109590	0.025	0.025
7)	delta-BHC	6.795	2478005	0.025	0.025
8)	Heptachlor	6.912	2402566	0.025	0.025
10)	Aldrin	7.736	2270734	0.025	0.025
12)	Heptachlor epoxide	9.085	2073881	0.026	0.026
13)	gamma-Chlordane	9.471	2041480	0.025	0.025
14)	alpha-Chlordane	9.757	2001861	0.025	0.025
15)	Endosulfan I	9.821	1880121	0.025	0.025
16)	4,4'-DDE	10.164	1837398	0.025	0.025
17)	Dieldrin	10.319	1925659	0.025	0.025
18)	Endrin	10.820	1775635	0.025	0.025
21)	4,4'-DDD	11.138	1550713	0.026	0.026
22)	Endosulfan II	11.180	1712905	0.025	0.025
24)	4,4'-DDT	11.620	1153096	0.023	0.023
25)	Endrin aldehyde	11.727	1353067	0.025	0.025
26)	Endosulfan sulfate	12.150	1479713	0.024	0.024
27)	Methoxychlor	12.670	623881	0.024	0.024
29)	Endrin ketone	12.888	1759766	0.025	0.025
30)	Decachlorobiphenyl	14.641	1638477	0.026	0.026

Report Date: 17-Mar-2010 14:50

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: METHSPIKE
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004738	94.76	70-130
5 gamma-BHC (Lindane	0.005000	0.004926	98.52	70-130
6 beta-BHC	0.005000	0.005698	113.97	70-130
7 delta-BHC	0.005000	0.004774	95.48	70-130
8 Heptachlor	0.005000	0.005216	104.32	70-130
10 Aldrin	0.005000	0.004915	98.30	70-130
12 Heptachlor epoxide	0.005000	0.005289	105.78	70-130
13 gamma-Chlordane	0.005000	0.005166	103.32	70-130
14 alpha-Chlordane	0.005000	0.005243	104.86	70-130
15 Endosulfan I	0.005000	0.005333	106.66	70-130
16 4,4'-DDE	0.005000	0.004854	97.08	70-130
17 Dieldrin	0.005000	0.005038	100.77	70-130
18 Endrin	0.005000	0.005042	100.83	70-130
21 4,4'-DDD	0.005000	0.005157	103.15	70-130
22 Endosulfan II	0.005000	0.005294	105.88	70-130
24 4,4'-DDT	0.005000	0.004277	85.53	70-130
25 Endrin aldehyde	0.005000	0.005529	110.57	70-130
26 Endosulfan sulfate	0.005000	0.005182	103.64	70-130
27 Methoxychlor	0.005000	0.004898	97.96	70-130
29 Endrin ketone	0.005000	0.005753	115.06	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\035F3501.D
Lab Smp Id: MRL
Inj Date : 17-MAR-2010 02:21
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 35 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSEMIGL

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/L)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
5.281	5.282	-0.001	510120	0.00474	0.004738		
55 DDD/Endosulfan II					CAS #: 72-54-8/332-65-		
Compound Not Detected							
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.935	5.936	-0.001	484452	0.00493	0.004926		
6 beta-BHC					CAS #: 319-85-7		
6.142	6.142	0.000	104467	0.00570	0.005698		
7 delta-BHC					CAS #: 319-86-8		
6.794	6.796	-0.002	468151	0.00477	0.004774		
8 Heptachlor					CAS #: 76-44-8		

```
6.910    6.913   -0.003          495206 0.00522  0.005216
--------------------------------------------------------------------------------
   10 Aldrin                                      CAS #: 309-00-2
7.734    7.737   -0.003          147524 0.00492  0.004915
--------------------------------------------------------------------------------
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.083	9.084	-0.001	428959	0.00529	0.005289		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.470	9.471	-0.001	419211	0.00517	0.005166		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.757	9.757	0.000	415303	0.00524	0.005243		
15 Endosulfan I					CAS #: 959-98-8		
9.819	9.821	-0.002	396485	0.00533	0.005333		
16 4,4'-DDE					CAS #: 72-55-9		
10.163	10.164	-0.001	160250	0.00485	0.004854		
17 Dieldrin					CAS #: 60-57-1		
10.318	10.319	-0.001	387056	0.00504	0.005038		
18 Endrin					CAS #: 72-20-8		
10.820	10.819	0.001	354152	0.00504	0.005042		
21 4,4'-DDD					CAS #: 72-54-8		
11.137	11.138	-0.001	151969	0.00516	0.005157		
22 Endosulfan II					CAS #: 33213-65-9		
11.180	11.181	-0.001	171019	0.00529	0.005294		
24 4,4'-DDT					CAS #: 50-29-3		
11.620	11.620	0.000	108783	0.00428	0.004277		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.728	11.727	0.001	299982	0.00553	0.005529		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.150	12.150	0.000	155374	0.00518	0.005182		
27 Methoxychlor					CAS #: 72-43-5		
12.669	12.669	0.000	129417	0.00490	0.004898		
29 Endrin ketone					CAS #: 53494-70-5		
12.888	12.888	0.000	400488	0.00575	0.005753		

Data File: \\CANSVR11\DD\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\035F3501.D

Date : 17-MAR-2010 02:21

Client ID:

Instrument: a2hp9.i

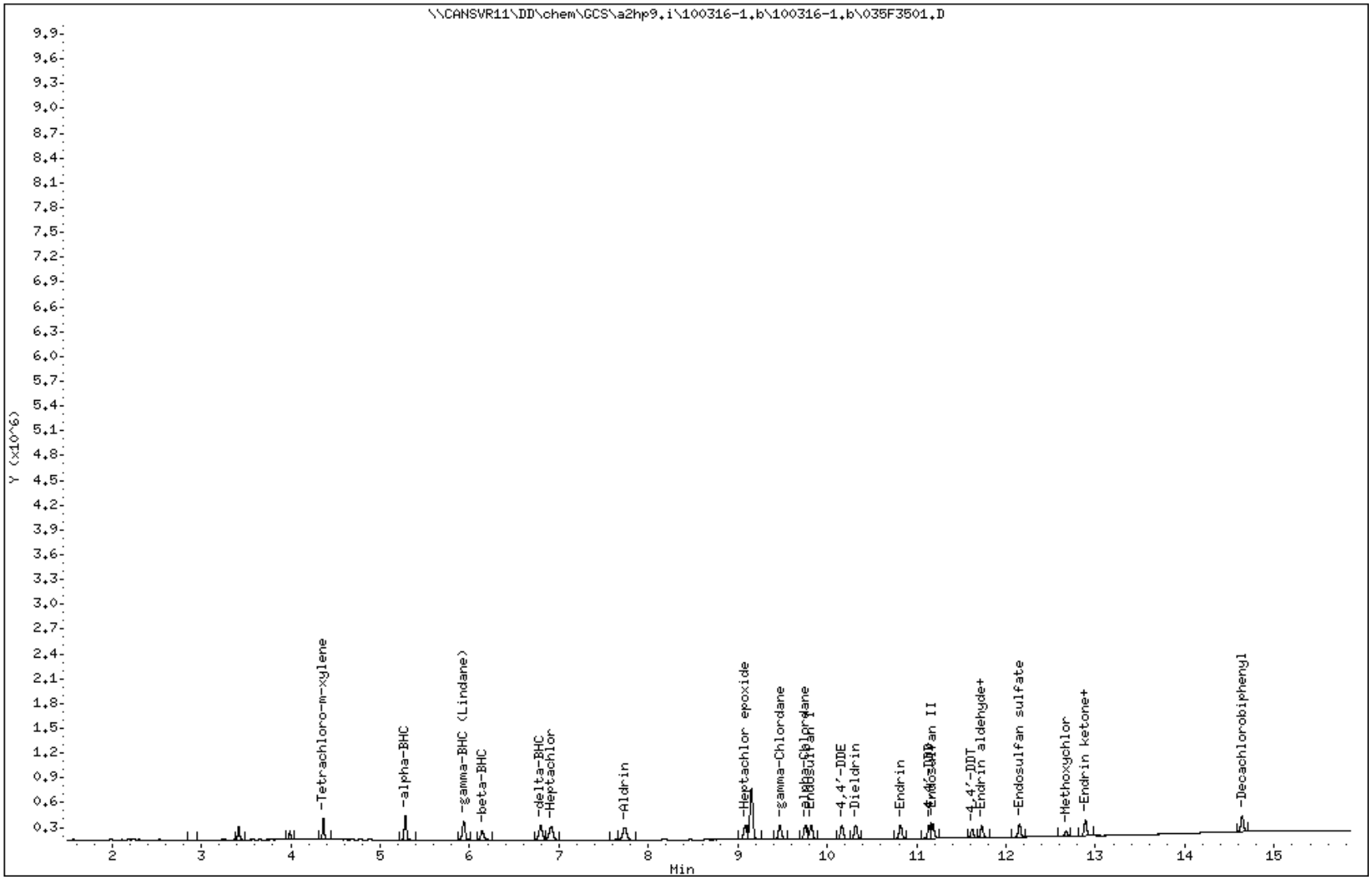
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 17-MAR-2010 02:21
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/100316-1.b/035F3501.D
Lab Sample ID: MRL
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.281	510120	0.005	0.005 ug/L
5) gamma-BHC (Lindane)	5.936	484452	0.005	0.005 ug/L
6) beta-BHC	6.142	259524	0.006	0.006 ug/L
7) delta-BHC	6.795	468151	0.005	0.005 ug/L
8) Heptachlor	6.911	495206	0.005	0.005 ug/L
10) Aldrin	7.735	465247	0.005	0.005 ug/L
12) Heptachlor epoxide	9.084	428959	0.005	0.005 ug/L
13) gamma-Chlordane	9.471	419211	0.005	0.005 ug/L
14) alpha-Chlordane	9.757	415303	0.005	0.005 ug/L
15) Endosulfan I	9.820	396485	0.005	0.005 ug/L
16) 4,4'-DDE	10.164	371357	0.005	0.005 ug/L
17) Dieldrin	10.319	387056	0.005	0.005 ug/L
18) Endrin	10.821	354152	0.005	0.005 ug/L
55) DDD/Endosulfan II	NOT DETECTED	Expected RT = 10.879		
21) 4,4'-DDD	11.137	307959	0.005	0.005 ug/L
22) Endosulfan II	11.181	372461	0.005	0.005 ug/L
24) 4,4'-DDT	11.621	219972	0.004	0.004 ug/L
25) Endrin aldehyde	11.729	299982	0.006	0.006 ug/L
26) Endosulfan sulfate	12.151	317700	0.005	0.005 ug/L
27) Methoxychlor	12.670	129417	0.005	0.005 ug/L
29) Endrin ketone	12.888	400488	0.006	0.006 ug/L

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b/043F4301.D
Report Date: 03/17/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 17-MAR-2010 05:23
Lab File ID: 043F4301.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
11.620	5501523	4,4'-DDT
10.165	26572	4,4'-DDE
11.135	691922	4,4'-DDD

Percent Degradation of 4,4'-DDT: 11.55

Endrin Degradation

RT	Area	Compound
10.820	3572468	Endrin
11.726	101008	Endrin aldehyde
12.886	303815	Endrin ketone

Percent Degradation of Endrin: 10.18

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\043F4301.D
Lab Smp Id: PEM E006
Inj Date : 17-MAR-2010 05:23
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 43 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSEMIGL

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
5.282	5.282	0.000	1033430	0.00960	0.009598		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.936	5.936	0.000	966000	0.00982	0.009822		
6 beta-BHC					CAS #: 319-85-7		
6.141	6.142	-0.001	183778	0.01002	0.01002		
16 4,4'-DDE					CAS #: 72-55-9		
10.165	10.164	0.001	11069	3e-004	0.0003353		
18 Endrin					CAS #: 72-20-8		
10.820	10.819	0.001	3572468	0.05086	0.05086		
21 4,4'-DDD					CAS #: 72-54-8		
11.135	11.138	-0.003	231034	0.00784	0.007840		
22 Endosulfan II					CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		
11.619	11.620	-0.001	2825417	0.11108	0.1111		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.726	11.727	-0.001	101008	0.00186	0.001862		

```
   27 Methoxychlor                                CAS #: 72-43-5
12.668  12.669   -0.001         6983717 0.26431   0.2643
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

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29 Endrin ketone CAS #: 53494-70-5

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
12.886	12.888	-0.002	303815	0.00436	0.004364		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\043F4301.D

Date : 17-MAR-2010 05:23

Client ID:

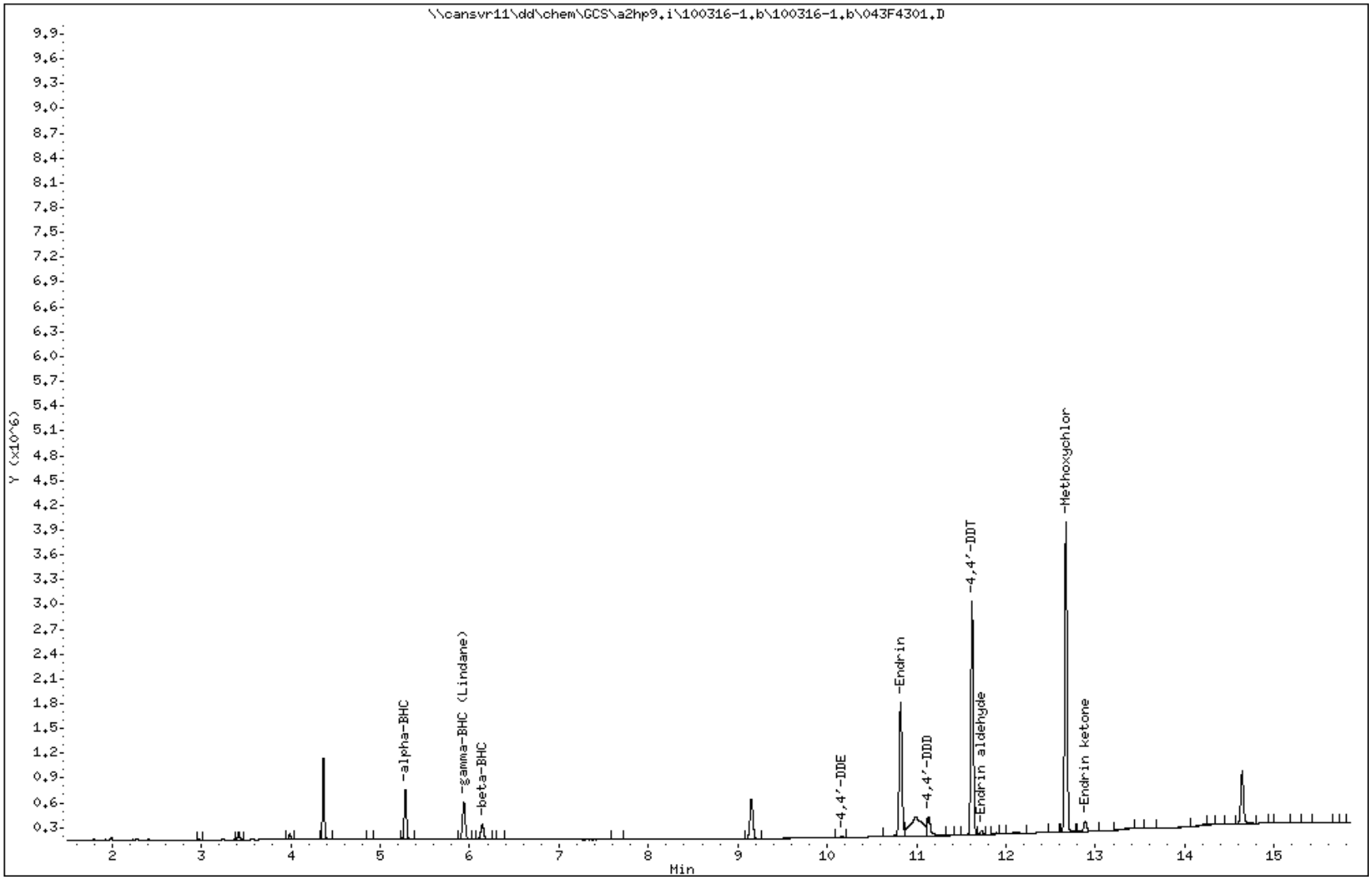
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 17-MAR-2010 05:23
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/100316-1.b/043F4301.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
4)	alpha-BHC	5.282	1033430	0.010	0.010
5)	gamma-BHC (Lindane)	5.936	966000	0.010	0.010
6)	beta-BHC	6.141	443348	0.010	0.010
16)	4,4'-DDE	10.165	26572	0.000	0.000
18)	Endrin	10.820	3572468	0.051	0.051
21)	4,4'-DDD	11.135	691922	0.008	0.008
22)	Endosulfan II	NOT DETECTED	Expected RT = 11.180		
24)	4,4'-DDT	11.620	5501523	0.111	0.111
25)	Endrin aldehyde	11.726	101008	0.002	0.002
26)	Endosulfan sulfate	NOT DETECTED	Expected RT = 12.150		
27)	Methoxychlor	12.669	6983717	0.264	0.264
29)	Endrin ketone	12.886	303815	0.004	0.004

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\007F0701.D
Lab Smp Id: AB 1 SOLID MDL
Inj Date : 07-JAN-2010 12:27
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB 1 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION   tv = 3.33 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.806	3.805	0.001	1063765	0.00921	0.09211		
4 alpha-BHC					CAS #: 319-84-6		
4.509	4.508	0.001	1592441	0.00848	2.826		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.934	4.933	0.001	1469492	0.00868	2.892		
6 beta-BHC					CAS #: 319-85-7		
5.082	5.081	0.001	371977	0.00922	3.072		
7 delta-BHC					CAS #: 319-86-8		
5.331	5.330	0.001	1428043	0.00875	2.916		
		Sum of Peak Concentrations =			2.916		
8 Heptachlor					CAS #: 76-44-8		
5.656	5.656	0.000	699967	0.00897	2.991		

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   10 Aldrin                                      CAS #: 309-00-2
6.187    6.186    0.001         1727084 0.01059    3.529
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.634	7.631	0.003	446053	0.00942	3.139		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.934	7.932	0.002	452925	0.00884	2.946		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.246	8.243	0.003	534411	0.01016	3.387		
15 Endosulfan I						CAS #: 959-98-8	
8.501	8.499	0.002	451597	0.00918	3.060		
16 4,4'-DDE						CAS #: 72-55-9	
8.570	8.568	0.002	1195417	0.00852	2.839		
17 Dieldrin						CAS #: 60-57-1	
9.011	9.010	0.001	1301534	0.00889	2.963		
18 Endrin						CAS #: 72-20-8	
9.435	9.434	0.001	504131	0.00923	3.078		
20 4,4'-DDD						CAS #: 72-54-8	
9.747	9.746	0.001	969186	0.00920	3.067		
22 Endosulfan II						CAS #: 33213-65-9	
9.856	9.854	0.002	493635	0.00946	3.153		
23 4,4'-DDT						CAS #: 50-29-3	
10.236	10.234	0.002	1035447	0.00935	3.116		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.610	10.609	0.001	417604	0.00943	3.145		
27 Methoxychlor						CAS #: 72-43-5	
11.131	11.130	0.001	632752	0.01193	3.976		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.310	11.308	0.002	1152114	0.01069	3.563		
29 Endrin ketone						CAS #: 53494-70-5	
11.702	11.702	0.000	606860	0.00972	3.241		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.251	13.251	0.000	604969	0.01086	0.1086		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\007F0701.D

Date : 07-JAN-2010 12:27

Client ID:

Instrument: a2hp9.i

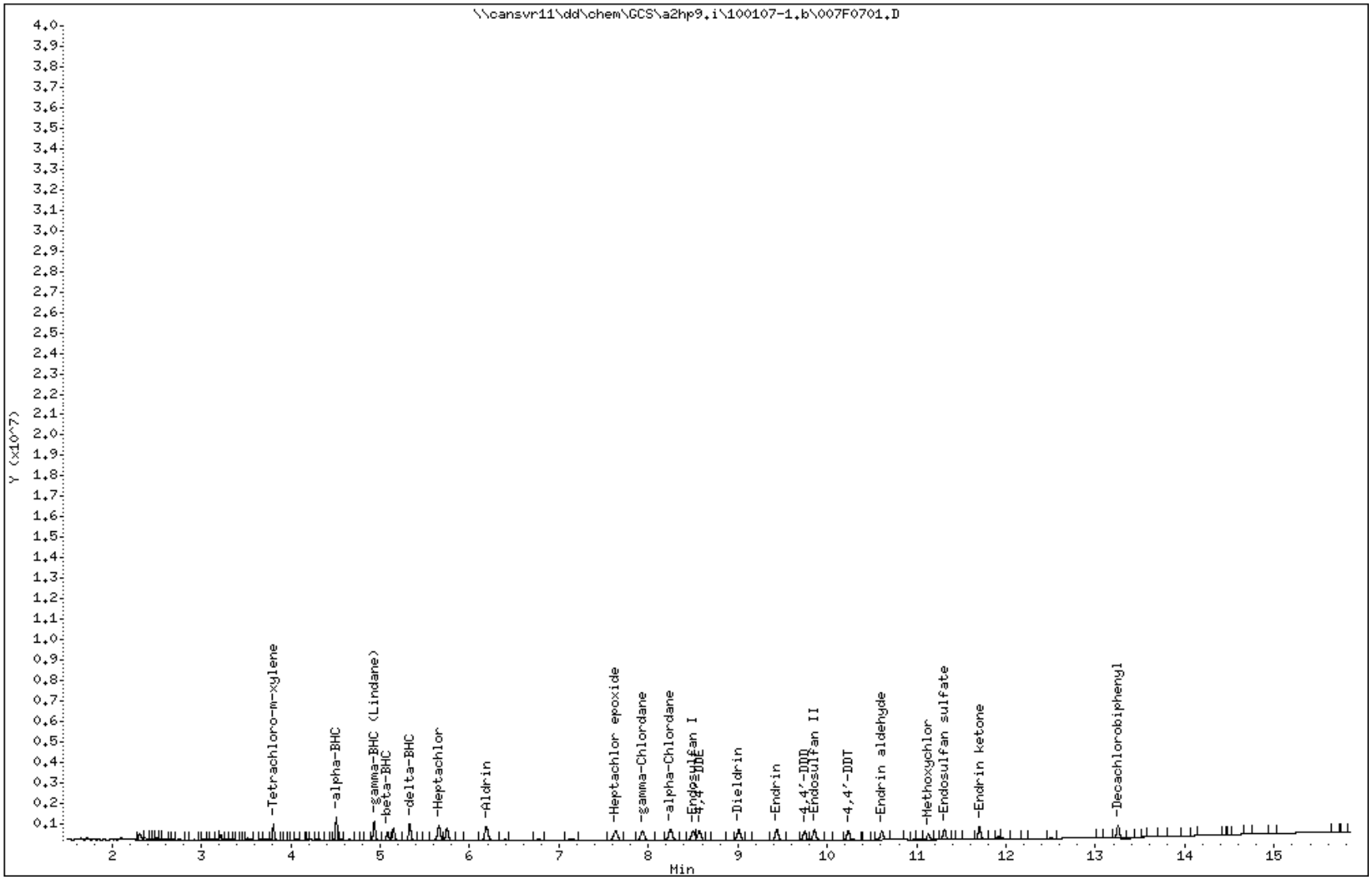
Sample Info: AB 1 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:27
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/007F0701.D
Lab Sample ID: AB 1 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.806	1063765	0.009	0.092 ug/Kg
4) alpha-BHC	4.509	1592441	0.008	2.826 ug/Kg
5) gamma-BHC (Lindane)	4.934	1469492	0.009	2.893 ug/Kg
6) beta-BHC	5.083	631210	0.009	3.072 ug/Kg
7) delta-BHC	5.332	1428043	0.009	2.916 ug/Kg
8) Heptachlor	5.657	1468108	0.009	2.991 ug/Kg
10) Aldrin	6.188	1727084	0.011	3.529 ug/Kg
12) Heptachlor epoxide	7.634	1370556	0.009	3.139 ug/Kg
13) gamma-Chlordane	7.934	1382896	0.009	2.946 ug/Kg
14) alpha-Chlordane	8.247	1540466	0.010	3.387 ug/Kg
15) Endosulfan I	8.501	1234650	0.009	3.060 ug/Kg
16) 4,4'-DDE	8.570	1195417	0.009	2.839 ug/Kg
17) Dieldrin	9.011	1301534	0.009	2.963 ug/Kg
18) Endrin	9.435	1240416	0.009	3.078 ug/Kg
20) 4,4'-DDD	9.748	969186	0.009	3.067 ug/Kg
22) Endosulfan II	9.857	1184811	0.009	3.153 ug/Kg
23) 4,4'-DDT	10.236	1035447	0.009	3.116 ug/Kg
25) Endrin aldehyde	10.610	957105	0.009	3.145 ug/Kg
27) Methoxychlor	11.131	632752	0.012	3.976 ug/Kg
28) Endosulfan sulfate	11.310	1152114	0.011	3.563 ug/Kg
29) Endrin ketone	11.703	1253356	0.010	3.241 ug/Kg
30) Decachlorobiphenyl	13.252	1422231	0.011	0.109 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\008F0801.D
Lab Smp Id: AB 0.4 SOLID MDL
Inj Date : 07-JAN-2010 12:52
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB 0.4 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.sub
Target Version: 4.14   Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.804	3.805	-0.001	451791	0.00391	0.03912		
4 alpha-BHC					CAS #: 319-84-6		
4.508	4.508	0.000	649306	0.00346	1.152		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.933	4.933	0.000	612612	0.00362	1.206		
6 beta-BHC					CAS #: 319-85-7		
5.080	5.081	-0.001	160417	0.00397	1.325		
7 delta-BHC					CAS #: 319-86-8		
5.330	5.330	0.000	638937	0.00391	1.305		
		Sum of Peak Concentrations =			1.305		
8 Heptachlor					CAS #: 76-44-8		
5.656	5.656	0.000	253566	0.00325	1.083		

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   10 Aldrin                                      CAS #: 309-00-2
6.184    6.186   -0.002          911028 0.00558    1.861
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.630	7.631	-0.001	164150	0.00347	1.155		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.931	7.932	-0.001	159904	0.00312	1.040		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.244	8.243	0.001	177080	0.00337	1.122		
15 Endosulfan I					CAS #: 959-98-8		
8.501	8.499	0.002	161080	0.00327	1.092		
16 4,4'-DDE					CAS #: 72-55-9		
8.569	8.568	0.001	435040	0.00310	1.033		
17 Dieldrin					CAS #: 60-57-1		
9.009	9.010	-0.001	465936	0.00318	1.061		
18 Endrin					CAS #: 72-20-8		
9.433	9.434	-0.001	184032	0.00337	1.123		
20 4,4'-DDD					CAS #: 72-54-8		
9.745	9.746	-0.001	347326	0.00330	1.099		
22 Endosulfan II					CAS #: 33213-65-9		
9.854	9.854	0.000	184841	0.00354	1.180		
23 4,4'-DDT					CAS #: 50-29-3		
10.234	10.234	0.000	366066	0.00330	1.102		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.609	10.609	0.000	161669	0.00365	1.217		
27 Methoxychlor					CAS #: 72-43-5		
11.130	11.130	0.000	288624	0.00544	1.814		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.308	11.308	0.000	537511	0.00499	1.662		
29 Endrin ketone					CAS #: 53494-70-5		
11.700	11.702	-0.002	219220	0.00351	1.171		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.250	13.251	-0.001	228496	0.00410	0.04100		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\008F0801.D

Date : 07-JAN-2010 12:52

Client ID:

Instrument: a2hp9.i

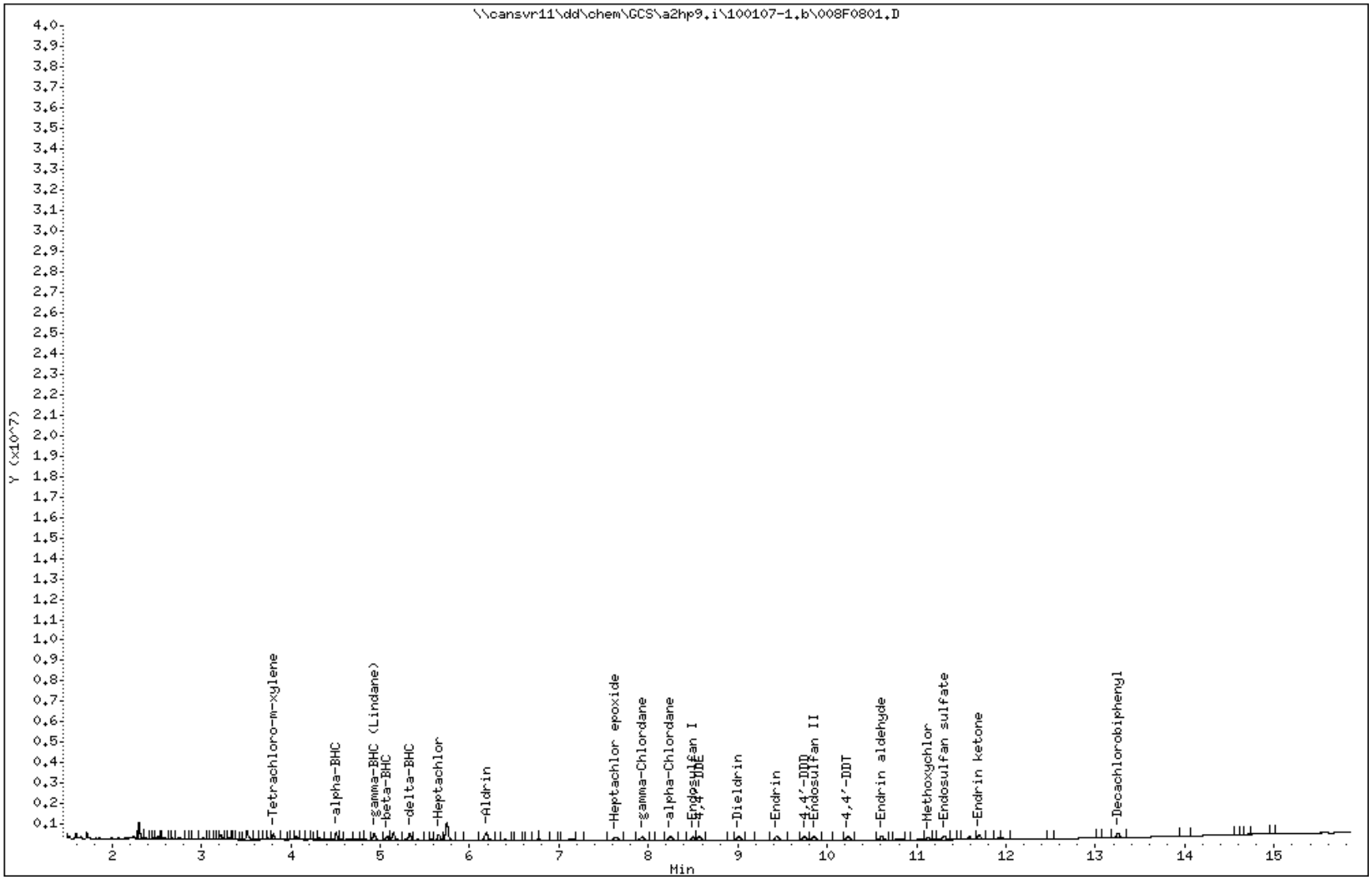
Sample Info: AB 0.4 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:52
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/008F0801.D
Lab Sample ID: AB 0.4 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	3.805	451791	0.004	0.000 ug/Kg
4)	alpha-BHC	4.508	649306	0.003	0.001 ug/Kg
5)	gamma-BHC (Lindane)	4.933	612612	0.004	0.001 ug/Kg
6)	beta-BHC	5.081	317709	0.004	0.001 ug/Kg
7)	delta-BHC	5.331	638937	0.004	0.001 ug/Kg
8)	Heptachlor	5.657	547835	0.003	0.001 ug/Kg
10)	Aldrin	6.185	911028	0.006	0.002 ug/Kg
12)	Heptachlor epoxide	7.631	521587	0.003	0.001 ug/Kg
13)	gamma-Chlordane	7.932	461549	0.003	0.001 ug/Kg
14)	alpha-Chlordane	8.244	506457	0.003	0.001 ug/Kg
15)	Endosulfan I	8.502	436284	0.003	0.001 ug/Kg
16)	4,4'-DDE	8.569	435040	0.003	0.001 ug/Kg
17)	Dieldrin	9.010	465936	0.003	0.001 ug/Kg
18)	Endrin	9.433	519259	0.003	0.001 ug/Kg
20)	4,4'-DDD	9.746	347326	0.003	0.001 ug/Kg
22)	Endosulfan II	9.855	458072	0.004	0.001 ug/Kg
23)	4,4'-DDT	10.234	366066	0.003	0.001 ug/Kg
25)	Endrin aldehyde	10.609	380051	0.004	0.001 ug/Kg
27)	Methoxychlor	11.131	288624	0.005	0.002 ug/Kg
28)	Endosulfan sulfate	11.308	537511	0.005	0.002 ug/Kg
29)	Endrin ketone	11.701	463175	0.004	0.001 ug/Kg
30)	Decachlorobiphenyl	13.251	508710	0.004	0.000 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\009F0901.D
Lab Smp Id: AB 0.2 SOLID MDL
Inj Date : 07-JAN-2010 13:17
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB 0.2 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.804	3.805	-0.001	469225	0.00406	0.04063		
4 alpha-BHC						CAS #: 319-84-6	
4.509	4.508	0.001	401053	0.00214	0.7118		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.933	4.933	0.000	326880	0.00193	0.6434		
6 beta-BHC						CAS #: 319-85-7	
5.081	5.081	0.000	86022	0.00213	0.7105		
7 delta-BHC						CAS #: 319-86-8	
5.329	5.330	-0.001	304248	0.00186	0.6213		
		Sum of Peak Concentrations =			0.6213		
8 Heptachlor						CAS #: 76-44-8	
5.656	5.656	0.000	139280	0.00179	0.5951		

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--------------------------------------------------------------------------------
   10 Aldrin                                      CAS #: 309-00-2
6.184    6.186   -0.002          689555 0.00423    1.409
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.631	7.631	0.000	91232	0.00193	0.6421		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.931	7.932	-0.001	90491	0.00177	0.5886		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.243	8.243	0.000	98753	0.00188	0.6258		
15 Endosulfan I					CAS #: 959-98-8		
8.499	8.499	0.000	86076	0.00175	0.5833		
16 4,4'-DDE					CAS #: 72-55-9		
8.569	8.568	0.001	235325	0.00168	0.5589		
17 Dieldrin					CAS #: 60-57-1		
9.009	9.010	-0.001	262196	0.00179	0.5969		
18 Endrin					CAS #: 72-20-8		
9.434	9.434	0.000	105844	0.00194	0.6462		
20 4,4'-DDD					CAS #: 72-54-8		
9.746	9.746	0.000	197814	0.00188	0.6260		
22 Endosulfan II					CAS #: 33213-65-9		
9.854	9.854	0.000	101655	0.00195	0.6492		
23 4,4'-DDT					CAS #: 50-29-3		
10.233	10.234	-0.001	191754	0.00173	0.5770		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.607	10.609	-0.002	91878	0.00208	0.6918		
27 Methoxychlor					CAS #: 72-43-5		
11.130	11.130	0.000	107409	0.00202	0.6749		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.308	11.308	0.000	277244	0.00257	0.8574		
29 Endrin ketone					CAS #: 53494-70-5		
11.701	11.702	-0.001	123943	0.00199	0.6619		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.250	13.251	-0.001	124619	0.00224	0.02236		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\009F0901.D

Date : 07-JAN-2010 13:17

Client ID:

Instrument: a2hp9.i

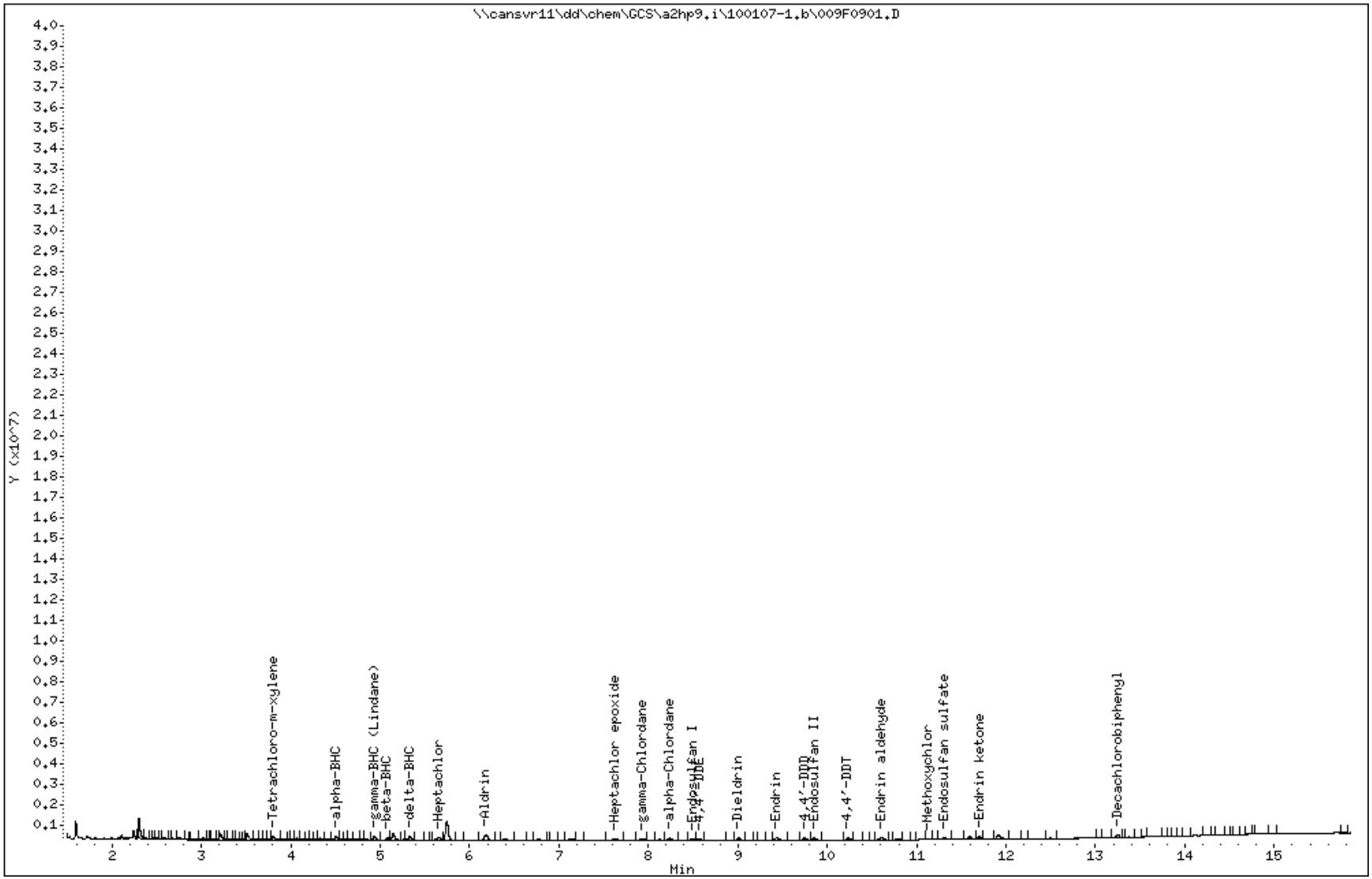
Sample Info: AB 0.2 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/009F0901.D
Lab Sample ID: AB 0.2 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.804	469225	0.004	0.041 ug/Kg
4) alpha-BHC	4.509	401053	0.002	0.712 ug/Kg
5) gamma-BHC (Lindane)	4.933	326880	0.002	0.643 ug/Kg
6) beta-BHC	5.082	160944	0.002	0.710 ug/Kg
7) delta-BHC	5.330	304248	0.002	0.621 ug/Kg
8) Heptachlor	5.657	324223	0.002	0.595 ug/Kg
10) Aldrin	6.184	689555	0.004	1.409 ug/Kg
12) Heptachlor epoxide	7.632	305092	0.002	0.642 ug/Kg
13) gamma-Chlordane	7.932	265281	0.002	0.589 ug/Kg
14) alpha-Chlordane	8.243	280665	0.002	0.626 ug/Kg
15) Endosulfan I	8.500	229950	0.002	0.583 ug/Kg
16) 4,4'-DDE	8.569	235325	0.002	0.559 ug/Kg
17) Dieldrin	9.010	262196	0.002	0.597 ug/Kg
18) Endrin	9.434	314359	0.002	0.646 ug/Kg
20) 4,4'-DDD	9.747	197814	0.002	0.626 ug/Kg
22) Endosulfan II	9.855	243878	0.002	0.649 ug/Kg
23) 4,4'-DDT	10.233	191754	0.002	0.577 ug/Kg
25) Endrin aldehyde	10.607	248090	0.002	0.692 ug/Kg
27) Methoxychlor	11.131	107409	0.002	0.675 ug/Kg
28) Endosulfan sulfate	11.308	277244	0.003	0.857 ug/Kg
29) Endrin ketone	11.702	246837	0.002	0.662 ug/Kg
30) Decachlorobiphenyl	13.251	260449	0.002	0.022 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\010F1001.D
Lab Smp Id: TC SOLID MDL
Inj Date : 07-JAN-2010 13:42
Operator : 093905   Inst ID: a2hp9.i
Smp Info : TC SOLID MDL
Misc Info : SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 15-TECHLOR.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE		RATIO
RT	EXP RT	DLT RT	RESPONSE					
9 Tech Chlordane					CAS #: 57-74-9			
5.524	5.524	0.000	37726	0.01347	4.490	0.00-	20.00	100.00
6.530	6.529	0.001	40920	0.01627	5.423	0.00-	20.00	108.47
7.930	7.932	-0.002	69458	0.01245	4.151	0.00-	20.00	184.11
8.240	8.239	0.001	113512	0.01307	4.357	0.00-	20.00	300.89
		Average of Peak Concentrations =			4.605			

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\010F1001.D

Date : 07-JAN-2010 13:42

Client ID:

Instrument: a2hp9.i

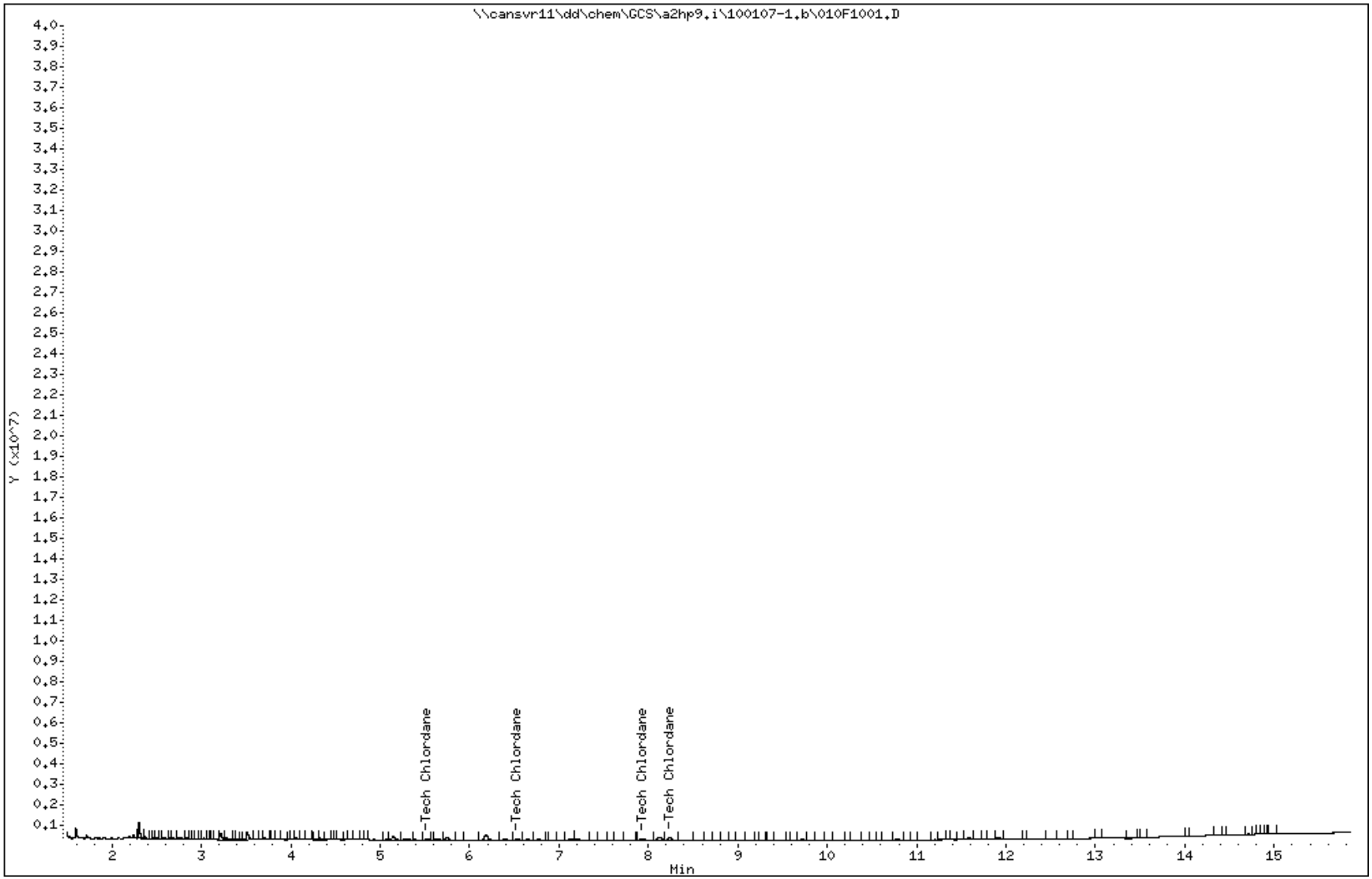
Sample Info: TC SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/010F1001.D
Lab Sample ID: TC SOLID MDL
Misc. Info: SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
9) Tech Chlordane	5.524	74444	0.013	4.490 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\012F1201.D
Lab Smp Id: MDL SOLID BLK
Inj Date : 07-JAN-2010 14:32
Operator : 093905   Inst ID: a2hp9.i
Smp Info : MDL SOLID BLK
Misc Info : SOLID MDL BLANK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 19-pestap9.sub
Target Version: 4.14   Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.792	3.805	-0.013	216281	0.00187	0.01873		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.286	4.285	0.001	47102	4e-004	0.1244		
		Average of Peak Concentrations =			0.1244		
3 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC						CAS #: 319-84-6	
4.496	4.508	-0.012	47898	3e-004	0.08501		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	

Peaks not detected for Quant. or Qual. signal(s).

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    6 beta-BHC                                     CAS #: 319-85-7
5.072    5.081   -0.009           13017  3e-004   0.1075
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
5.311	5.330	-0.019	41823	3e-004	0.08540		
		Sum of Peak Concentrations =			0.08540		
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
5.527	5.524	0.003	6717	0.00240	0.7994	0.00- 20.00	100.00
6.544	6.529	0.015	12620	0.00502	1.672	0.00- 20.00	187.88
0.000	7.932	-7.932	0	0.0000	0.0000	0.00- 20.00	0.00
8.254	8.239	0.015	11332	0.00130	0.4350	0.00- 20.00	168.71
		Average of Peak Concentrations =			0.9690		
10 Aldrin					CAS #: 309-00-2		
6.181	6.186	-0.005	203877	0.00125	0.4166		
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.254	8.243	0.011	11332	2e-004	0.07182		
15 Endosulfan I					CAS #: 959-98-8		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.568	-0.027	44912	0.00032	0.1067		
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							
18 Endrin					CAS #: 72-20-8		

Peaks not detected for Quant. or Qual. signal(s).

19	Kepone				CAS #: 143-50-0	
9.482	9.491	-0.009		50247	0.09888	32.96

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
20 4,4'-DDD					CAS #: 72-54-8		

Peaks not detected for Quant. or Qual. signal(s).

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21 Chlorobenzilate					CAS #: 510-15-6		

Peaks not detected for Quant. or Qual. signal(s).

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22 Endosulfan II					CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

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24 Toxaphene					CAS #: 8001-35-2		
0.000	9.975	-9.975	0	0.0000	0.0000	80.00- 120.00	0.00
0.000	10.407	-10.407	0	0.0000	0.0000	114.04- 154.04	0.00
10.575	10.554	0.021	10096	0.00684	2.279	115.64- 155.64	0.00
0.000	11.116	-11.116	0	0.0000	0.0000	52.78- 92.78	0.00
11.204	11.219	-0.015	5025	0.00266	0.8872	69.36- 109.36	0.00
		Average of Peak Concentrations =			1.583		

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23 4,4'-DDT					CAS #: 50-29-3		

Peaks not detected for Quant. or Qual. signal(s).

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25 Endrin aldehyde					CAS #: 7421-93-4		

Peaks not detected for Quant. or Qual. signal(s).

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26 Mirex					CAS #: 2385-85-5		
10.788	10.813	-0.025	16702				

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27 Methoxychlor					CAS #: 72-43-5		

Peaks not detected for Quant. or Qual. signal(s).

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28 Endosulfan sulfate					CAS #: 1031-07-8		
11.282	11.308	-0.026	26640	2e-004	0.08239		

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29 Endrin ketone					CAS #: 53494-70-5		

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\012F1201.D

Date : 07-JAN-2010 14:32

Client ID:

Instrument: a2hp9.i

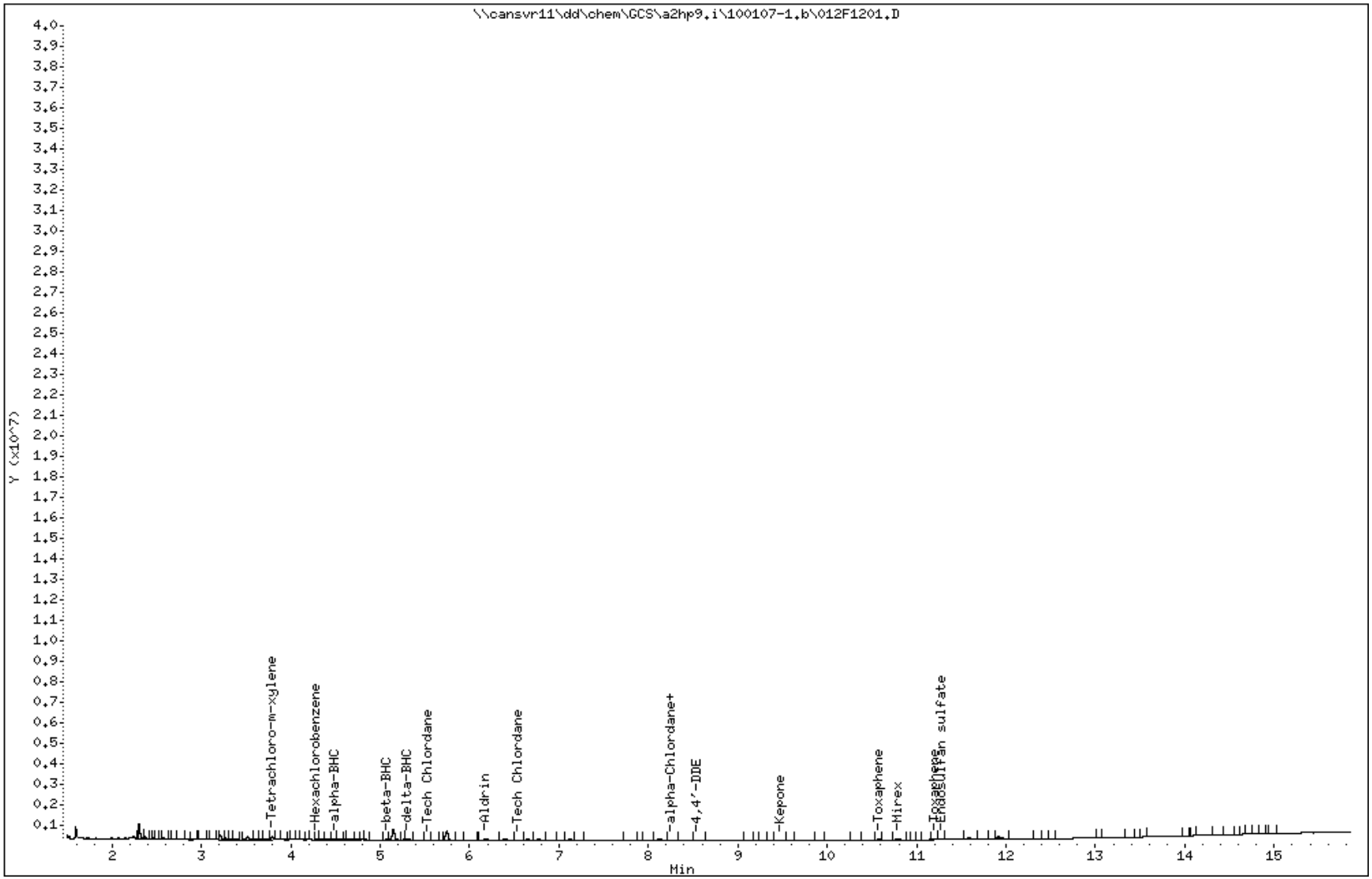
Sample Info: MDL SOLID BLK

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 14:32
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/012F1201.D
Lab Sample ID: MDL SOLID BLK
Misc. Info: SOLID MDL BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	0.000	0	0.000	0.000 ug/Kg
1) Tetrachloro-m-xylene	3.792	216281	0.002	0.000 ug/Kg
2) Hexachlorobenzene	4.287	87515	0.000	0.000 ug/Kg
3) Diallate	NOT DETECTED	Expected RT = 4.369		
4) alpha-BHC	4.497	47898	0.000	0.000 ug/Kg
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 4.933		
6) beta-BHC	5.072	31731	0.000	0.000 ug/Kg
7) delta-BHC	5.312	41823	0.000	0.000 ug/Kg
9) Tech Chlordane	5.527	14175	0.002	0.001 ug/Kg
8) Heptachlor	NOT DETECTED	Expected RT = 5.656		
10) Aldrin	6.182	203877	0.001	0.000 ug/Kg
11) Isodrin	NOT DETECTED	Expected RT = 6.883		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 7.631		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 7.932		
14) alpha-Chlordane	8.254	33736	0.000	0.000 ug/Kg
15) Endosulfan I	NOT DETECTED	Expected RT = 8.500		
16) 4,4'-DDE	8.542	44912	0.000	0.000 ug/Kg
17) Dieldrin	NOT DETECTED	Expected RT = 9.011		
18) Endrin	NOT DETECTED	Expected RT = 9.435		
19) Kepone	9.482	50247	0.099	0.033 ug/Kg
20) 4,4'-DDD	NOT DETECTED	Expected RT = 9.746		
21) Chlorobenzilate	NOT DETECTED	Expected RT = 9.834		
22) Endosulfan II	NOT DETECTED	Expected RT = 9.855		
23) 4,4'-DDT	NOT DETECTED	Expected RT = 10.235		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 10.610		
26) Mirex	10.788	54368	0.000	0.000 ug/Kg
27) Methoxychlor	NOT DETECTED	Expected RT = 11.131		
28) Endosulfan sulfate	11.282	26640	0.000	0.000 ug/Kg
29) Endrin ketone	NOT DETECTED	Expected RT = 11.702		
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 13.251		

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\009F0901.D
Lab Smp Id: TOX SOLID MDL
Inj Date : 14-JAN-2010 12:22
Operator : 093905   Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL
Misc Info : TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Meth Date : 15-Jan-2010 12:35 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 16-toxaph.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.971	9.971	0.000	55736	0.03318	11.06	80.00- 120.00	100.00(M)
10.404	10.403	0.001	50384	0.03145	10.48	114.04- 154.04	90.40
10.550	10.549	0.001	46785	0.03168	10.56	115.64- 155.64	83.94
11.111	11.113	-0.002	73349	0.03590	11.97	52.78- 92.78	131.60
11.215	11.214	0.001	60273	0.03193	10.64	69.36- 109.36	108.14
Average of Peak Concentrations =					10.94		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\009F0901.D

Date : 14-JAN-2010 12:22

Client ID:

Instrument: a2hp9.i

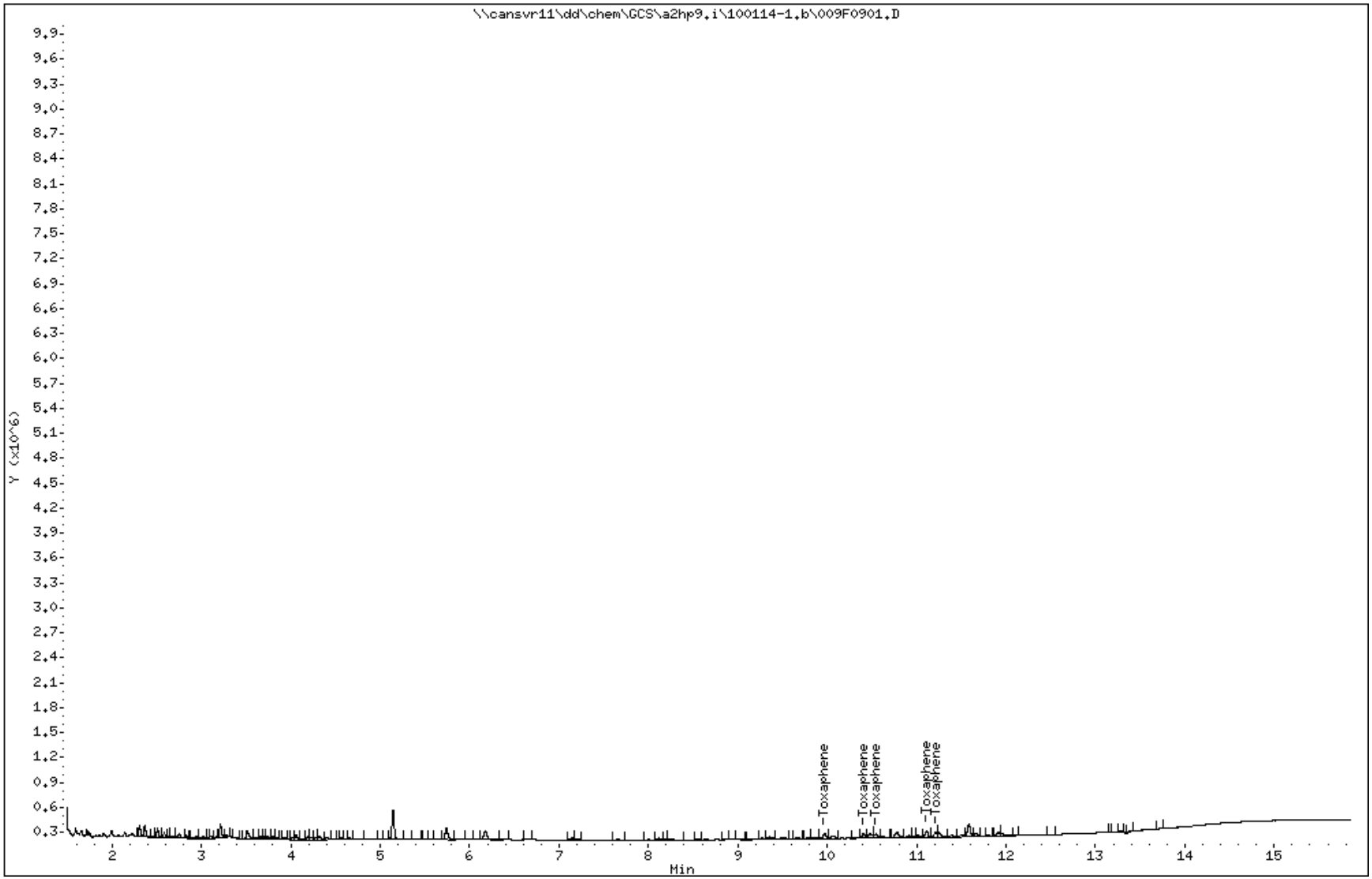
Sample Info: TOX SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

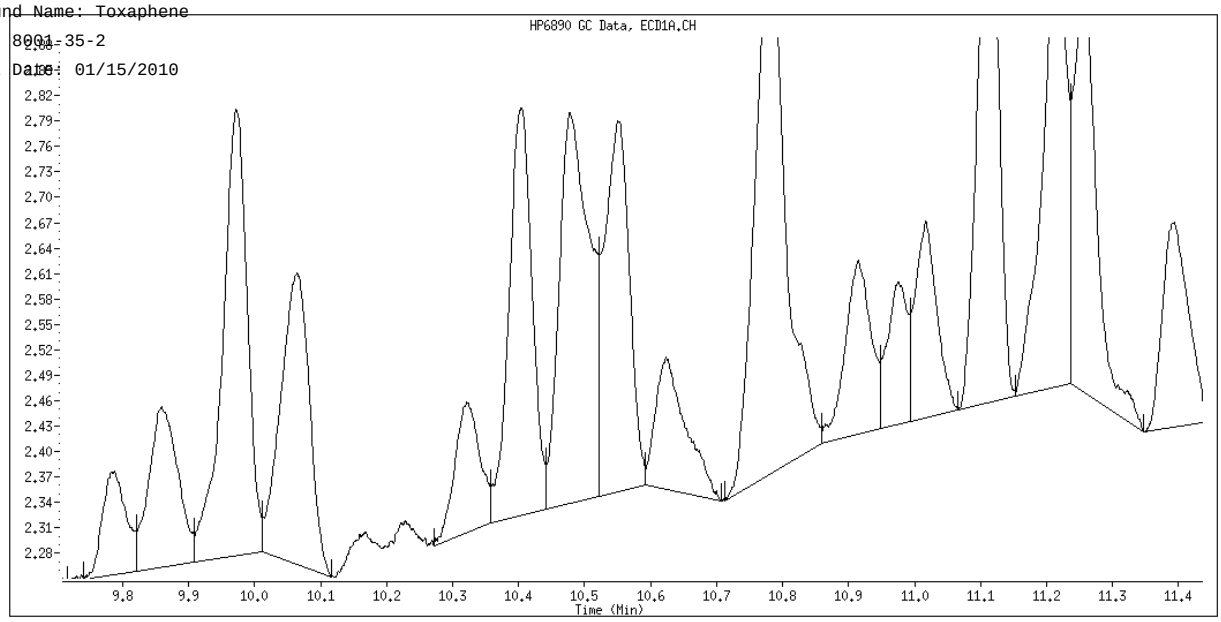


COMPOUNDS and EXP. RT REPORT

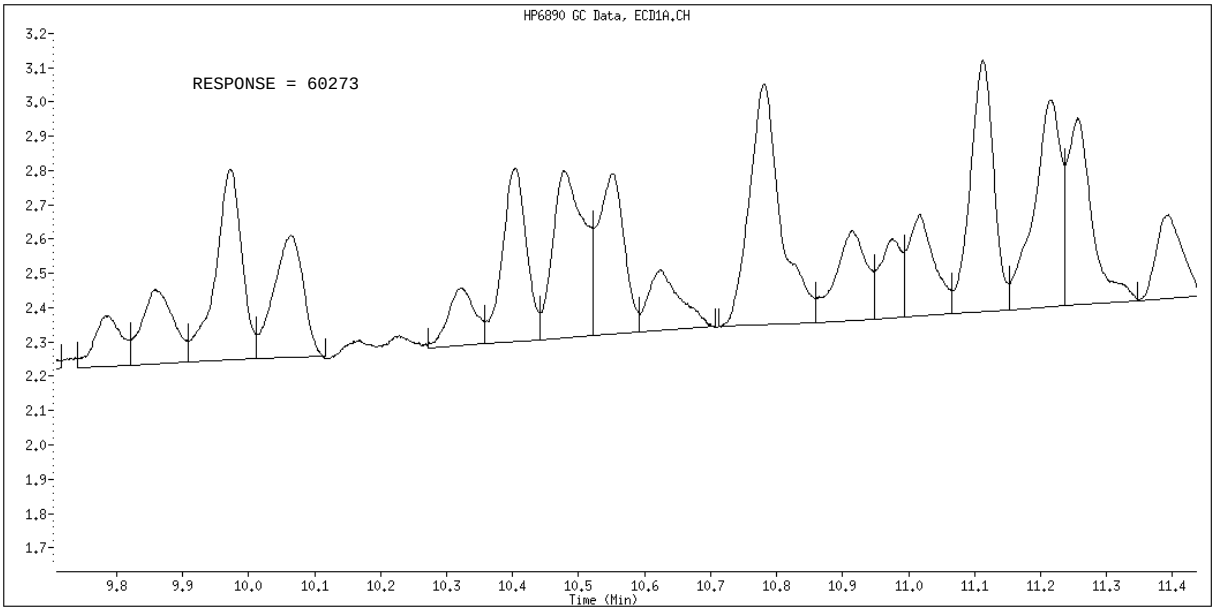
Operator: 093905 Date Acquired: 14-JAN-2010 12:22
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/009F0901.D
Lab Sample ID: TOX SOLID MDL
Misc. Info: TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.972	156128	0.033	11.061 ug/Kg

Data File Name: 009F0901.D
Inj. Date and Time: 14-JAN-2010 12:22
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\010F1001.D
Lab Smp Id: TOX SOLID MDL BL
Inj Date : 14-JAN-2010 12:46
Operator : 093905   Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL BL
Misc Info : TOX SOLID MDL VERIFICATION BLANK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Meth Date : 15-Jan-2010 12:35 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 19-pestap9.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.791	3.803	-0.012	111179	1e-003	0.009626		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.283	4.285	-0.002	37493	3.e-004	0.09905		
		Average of Peak Concentrations =			0.09905		
3 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC						CAS #: 319-84-6	
4.532	4.505	0.027	141424	8e-004	0.2510		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.954	4.929	0.025	10581	6e-005	0.02083		

```
    6 beta-BHC                                    CAS #: 319-85-7
5.067    5.078   -0.011           8471 0.00021  0.06996
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
5.308	5.326	-0.018	68014	4e-004	0.1389		
		Sum of Peak Concentrations =			0.1389		
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
5.521	5.520	0.001	5404	0.00193	0.6432	0.00- 20.00	100.00
0.000	6.524	-6.524	0	0.0000	0.0000	0.00- 20.00	0.00
0.000	7.926	-7.926	0	0.0000	0.0000	0.00- 20.00	0.00
8.249	8.235	0.014	26068	0.00300	1.001	0.00- 20.00	482.38
		Average of Peak Concentrations =			0.8219		
10 Aldrin					CAS #: 309-00-2		
6.176	6.180	-0.004	511270	0.00313	1.045		
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.249	8.236	0.013	26068	5.e-004	0.1652		
15 Endosulfan I					CAS #: 959-98-8		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
Peaks not detected for Quant. or Qual. signal(s).							
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							

```
--------------------------------------------------------------------------------
   18 Endrin                                      CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

--------------------------------------------------------------------------------
   19 Kepone                                      CAS #: 143-50-0
9.478    9.491   -0.013           39380 0.09848    32.83
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

20 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 Toxaphene CAS #: 8001-35-2

Operator disabled compound identification.

---

23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

10.629	10.603	0.026		6189	0.00014	0.04660	

---

26 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

11.275	11.303	-0.028		42261	4e-004	0.1307	

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\010F1001.D

Date : 14-JAN-2010 12:46

Client ID:

Instrument: a2hp9.i

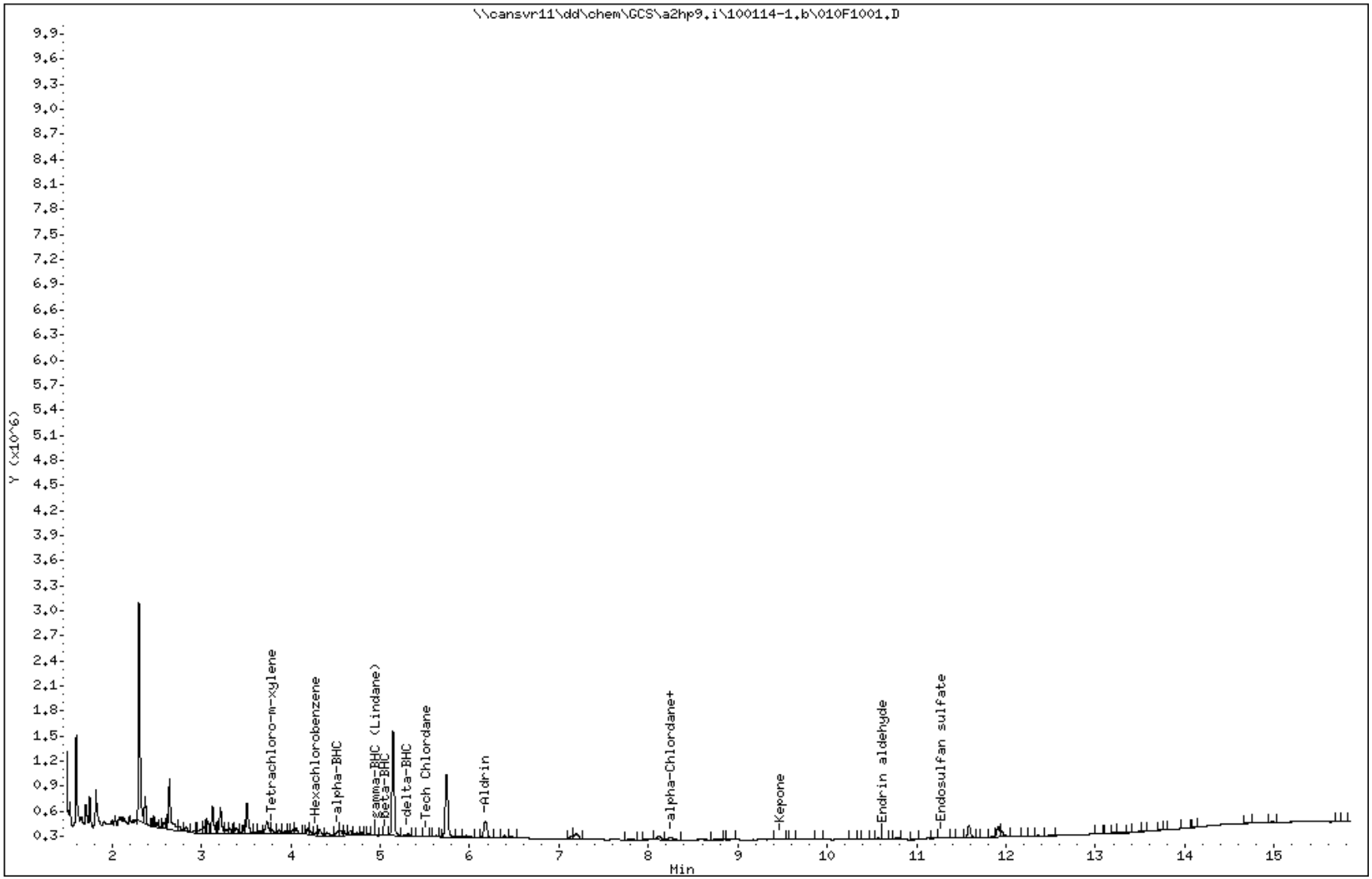
Sample Info: TOX SOLID MDL BL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 14-JAN-2010 12:46
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/010F1001.D
Lab Sample ID: TOX SOLID MDL BL
Misc. Info: TOX SOLID MDL VERIFICATION BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.791	111179	0.001	0.010 ug/Kg
2) Hexachlorobenzene	4.284	67093	0.000	0.099 ug/Kg
3) Diallate	NOT DETECTED	Expected RT = 4.369		
4) alpha-BHC	4.533	141424	0.001	0.251 ug/Kg
5) gamma-BHC (Lindane)	4.955	10581	0.000	0.021 ug/Kg
6) beta-BHC	5.067	15991	0.000	0.070 ug/Kg
7) delta-BHC	5.309	68014	0.000	0.139 ug/Kg
9) Tech Chlordane	5.521	11995	0.002	0.643 ug/Kg
8) Heptachlor	NOT DETECTED	Expected RT = 5.651		
10) Aldrin	6.176	511270	0.003	1.045 ug/Kg
11) Isodrin	NOT DETECTED	Expected RT = 6.883		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 7.623		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 7.925		
14) alpha-Chlordane	8.250	88403	0.000	0.165 ug/Kg
15) Endosulfan I	NOT DETECTED	Expected RT = 8.491		
16) 4,4'-DDE	NOT DETECTED	Expected RT = 8.564		
17) Dieldrin	NOT DETECTED	Expected RT = 9.004		
18) Endrin	NOT DETECTED	Expected RT = 9.429		
19) Kepone	9.479	39380	0.098	32.827 ug/Kg
20) 4,4'-DDD	NOT DETECTED	Expected RT = 9.742		
21) Chlorobenzilate	NOT DETECTED	Expected RT = 9.834		
22) Endosulfan II	NOT DETECTED	Expected RT = 9.849		
24) Toxaphene	NOT DETECTED	Expected RT = 9.971		
23) 4,4'-DDT	NOT DETECTED	Expected RT = 10.229		
25) Endrin aldehyde	10.630	14883	0.000	0.047 ug/Kg
26) Mirex	NOT DETECTED	Expected RT = 10.814		
27) Methoxychlor	NOT DETECTED	Expected RT = 11.126		
28) Endosulfan sulfate	11.275	42261	0.000	0.131 ug/Kg
29) Endrin ketone	NOT DETECTED	Expected RT = 11.696		
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 13.247		

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\007F0701.D
Lab Smp Id: AB 1 SOLID MDL
Inj Date : 07-JAN-2010 12:27
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB 1 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.416	4.415	0.001	456178	0.00893	0.08933			
4 alpha-BHC						CAS #: 319-84-6		
5.357	5.357	0.000	522749	0.00864	2.880			(M)
5 gamma-BHC (Lindane)						CAS #: 58-89-9		
6.031	6.028	0.003	883052	0.00911	3.037			
6 beta-BHC						CAS #: 319-85-7		
6.241	6.239	0.002	459323	0.01069	3.564			
7 delta-BHC						CAS #: 319-86-8		
6.917	6.915	0.002	854721	0.00912	3.041			
8 Heptachlor						CAS #: 76-44-8		
7.034	7.031	0.003	1111979	0.01264	4.212			

```
   10 Aldrin                                      CAS #: 309-00-2
7.862    7.861    0.001          273687 0.00879    2.931
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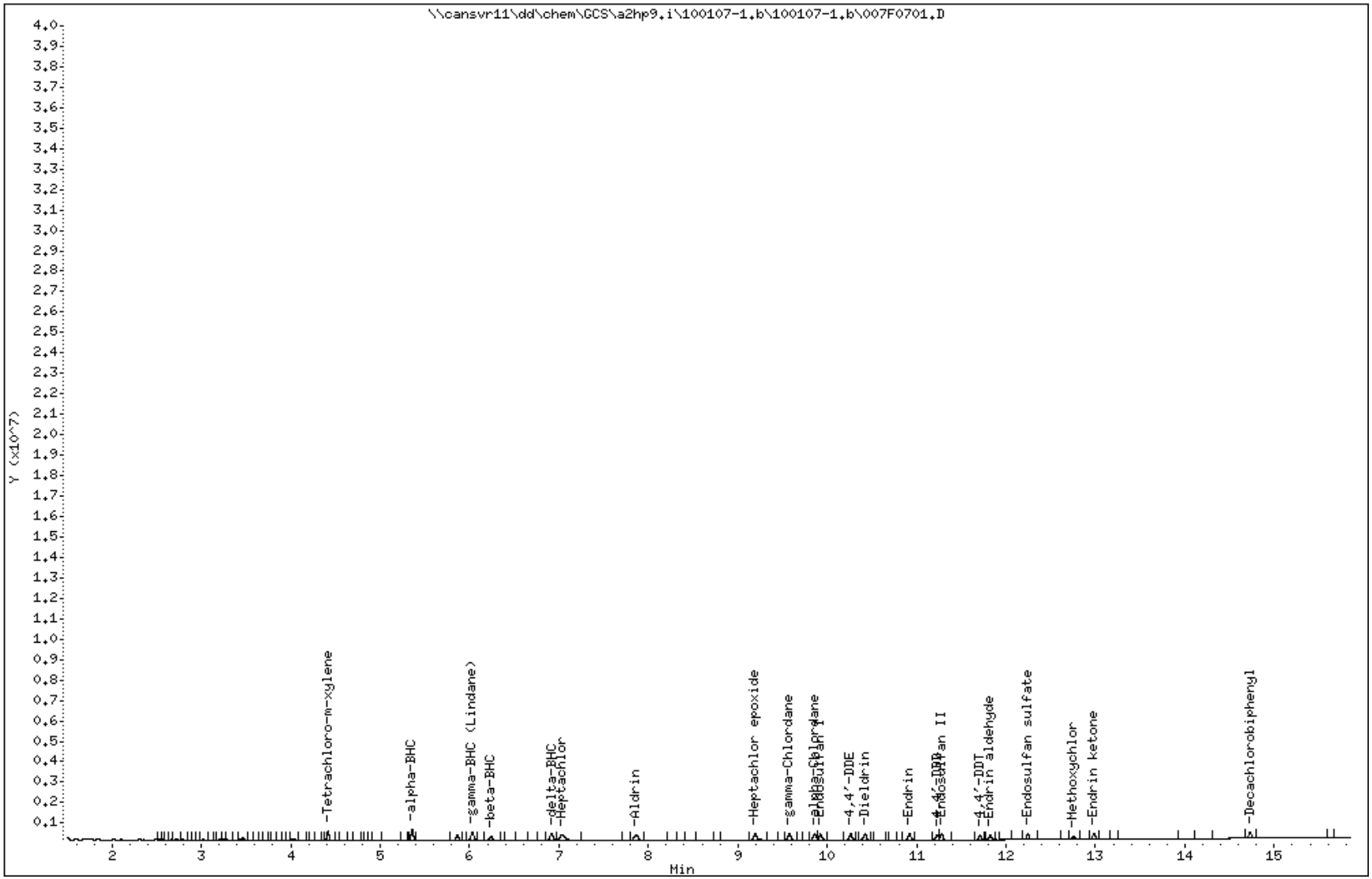
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.194	9.193	0.001	858591	0.01076	3.586		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.576	9.575	0.001	732828	0.00921	3.071		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.859	9.858	0.001	713996	0.00932	3.106		
15 Endosulfan I					CAS #: 959-98-8		
9.925	9.924	0.001	671990	0.00942	3.139		
16 4,4'-DDE					CAS #: 72-55-9		
10.262	10.261	0.001	642002	0.00893	2.976		
17 Dieldrin					CAS #: 60-57-1		
10.422	10.420	0.002	303906	0.00907	3.022		
18 Endrin					CAS #: 72-20-8		
10.921	10.920	0.001	289303	0.00935	3.116		
21 4,4'-DDD					CAS #: 72-54-8		
11.229	11.228	0.001	483749	0.00994	3.313		
22 Endosulfan II					CAS #: 33213-65-9		
11.280	11.278	0.002	289326	0.00979	3.262		
24 4,4'-DDT					CAS #: 50-29-3		
11.709	11.708	0.001	422325	0.00927	3.089		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.822	11.823	-0.001	244197	0.01001	3.338		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.243	12.242	0.001	270519	0.01047	3.491		
27 Methoxychlor					CAS #: 72-43-5		
12.754	12.753	0.001	278685	0.01279	4.263		
29 Endrin ketone					CAS #: 53494-70-5		
12.983	12.982	0.001	316028	0.00995	3.315		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.729	14.728	0.001	601764	0.01022	0.1022		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\007F0701.D Page 1
Date : 07-JAN-2010 12:27
Client ID:
Instrument: a2hp9.i
Sample Info: AB 1 SOLID MDL
Volume Injected (uL): 1.0
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53

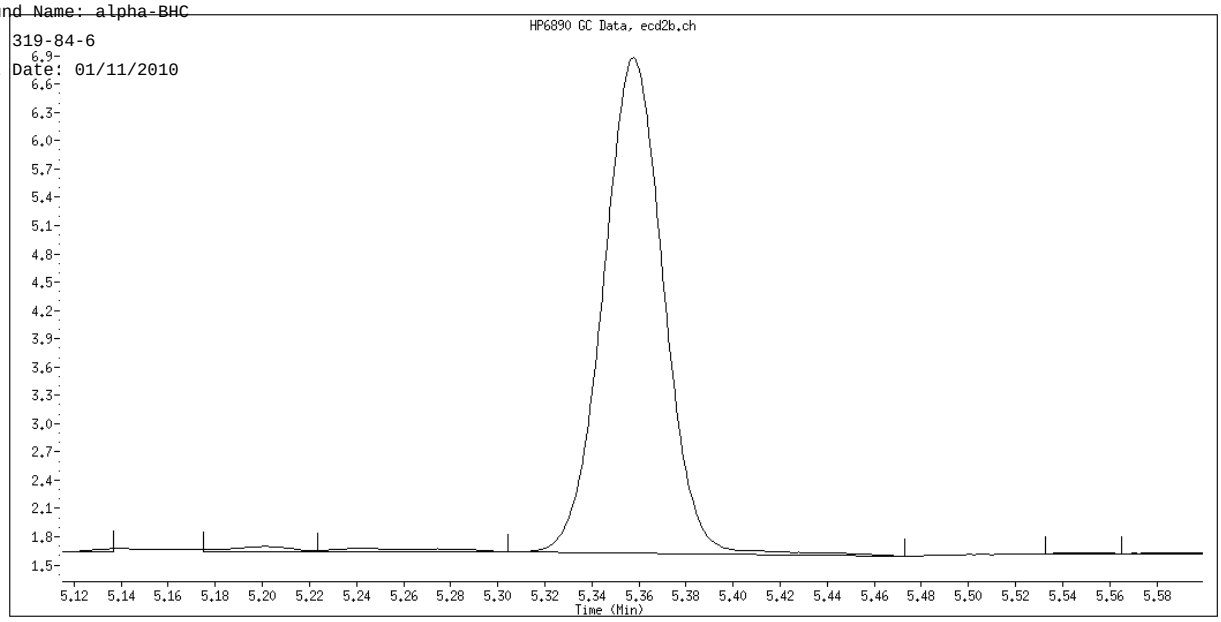


COMPOUNDS and EXP. RT REPORT

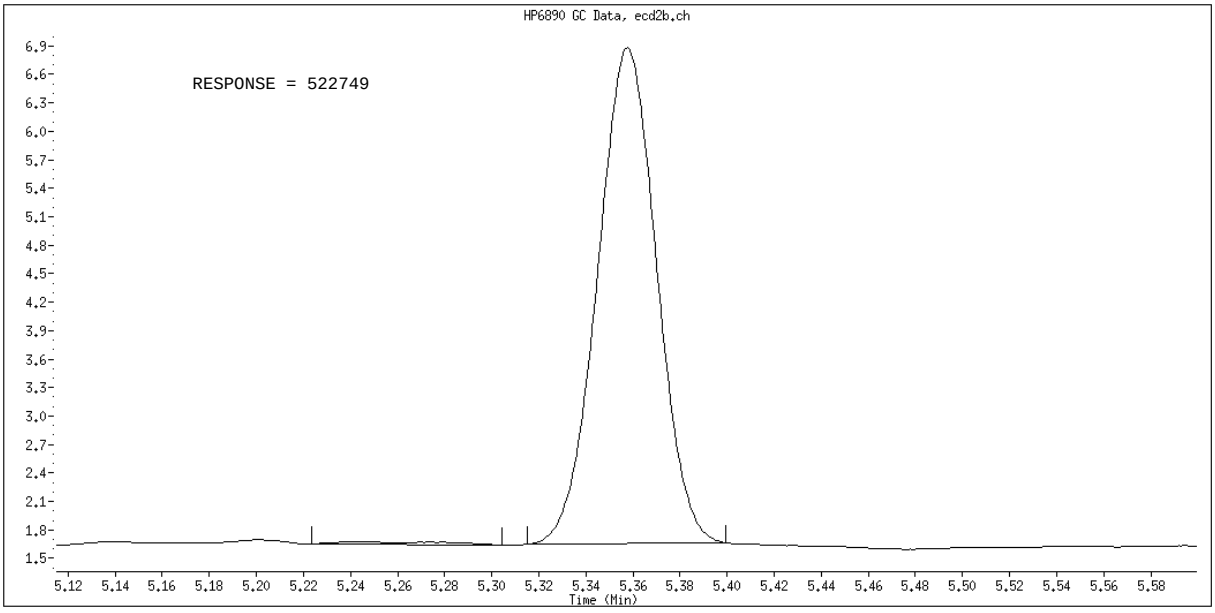
Operator: 093905 Date Acquired: 07-JAN-2010 12:27
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/007F0701.D
Lab Sample ID: AB 1 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.416	658444	0.009	0.089 ug/Kg
4) alpha-BHC	5.358	912078	0.009	2.880 ug/Kg
5) gamma-BHC (Lindane)	6.031	883052	0.009	3.037 ug/Kg
6) beta-BHC	6.241	459323	0.011	3.564 ug/Kg
7) delta-BHC	6.918	854721	0.009	3.041 ug/Kg
8) Heptachlor	7.034	1111979	0.013	4.212 ug/Kg
10) Aldrin	7.863	818431	0.009	2.931 ug/Kg
12) Heptachlor epoxide	9.194	858591	0.011	3.586 ug/Kg
13) gamma-Chlordane	9.576	732828	0.009	3.071 ug/Kg
14) alpha-Chlordane	9.859	713996	0.009	3.106 ug/Kg
15) Endosulfan I	9.925	671990	0.009	3.139 ug/Kg
16) 4,4'-DDE	10.263	642002	0.009	2.976 ug/Kg
17) Dieldrin	10.423	678890	0.009	3.022 ug/Kg
18) Endrin	10.921	619403	0.009	3.116 ug/Kg
21) 4,4'-DDD	11.229	483749	0.010	3.313 ug/Kg
22) Endosulfan II	11.280	618396	0.010	3.262 ug/Kg
24) 4,4'-DDT	11.709	422325	0.009	3.089 ug/Kg
25) Endrin aldehyde	11.823	490522	0.010	3.338 ug/Kg
26) Endosulfan sulfate	12.244	552152	0.010	3.491 ug/Kg
27) Methoxychlor	12.754	278685	0.013	4.263 ug/Kg
29) Endrin ketone	12.984	608447	0.010	3.315 ug/Kg
30) Decachlorobiphenyl	14.729	601764	0.010	0.102 ug/Kg

Data File Name: 007F0701.D
Inj. Date and Time: 07-JAN-2010 12:27
Instrument ID: a2hp9.i
Client ID:
Compound Name: alpha-BHC
CAS #: 319-84-6
Report Date: 01/11/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\008F0801.D
Lab Smp Id: AB 0.4 SOLID MDL
Inj Date : 07-JAN-2010 12:52
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB 0.4 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.412	4.415	-0.003	215321	0.00422	0.04217		
4 alpha-BHC						CAS #: 319-84-6	
5.357	5.357	0.000	181250	0.00300	0.9986		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.030	6.028	0.002	359272	0.00371	1.236		
6 beta-BHC						CAS #: 319-85-7	
6.241	6.239	0.002	240367	0.00560	1.865		
7 delta-BHC						CAS #: 319-86-8	
6.915	6.915	0.000	311830	0.00333	1.109		
8 Heptachlor						CAS #: 76-44-8	
7.042	7.031	0.011	641042	0.00728	2.428		

```
   10 Aldrin                                      CAS #: 309-00-2
7.861    7.861    0.000           98928 0.00318    1.060
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```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.193	9.193	0.000	290920	0.00365	1.215		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.574	9.575	-0.001	301090	0.00379	1.262		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.859	9.858	0.001	279349	0.00365	1.215		
15 Endosulfan I					CAS #: 959-98-8		
9.924	9.924	0.000	263818	0.00370	1.232		
16 4,4'-DDE					CAS #: 72-55-9		
10.261	10.261	0.000	243923	0.00339	1.130		
17 Dieldrin					CAS #: 60-57-1		
10.420	10.420	0.000	112391	0.00335	1.118		
18 Endrin					CAS #: 72-20-8		
10.920	10.920	0.000	108594	0.00351	1.170		
21 4,4'-DDD					CAS #: 72-54-8		
11.228	11.228	0.000	184095	0.00378	1.261		
22 Endosulfan II					CAS #: 33213-65-9		
11.279	11.278	0.001	111094	0.00376	1.253		
24 4,4'-DDT					CAS #: 50-29-3		
11.709	11.708	0.001	143828	0.00316	1.052		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.822	11.823	-0.001	95927	0.00393	1.311		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.242	12.242	0.000	105645	0.00409	1.363		
27 Methoxychlor					CAS #: 72-43-5		
12.754	12.753	0.001	136990	0.00629	2.096		
29 Endrin ketone					CAS #: 53494-70-5		
12.981	12.982	-0.001	127193	0.00400	1.334		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.728	14.728	0.000	231235	0.00393	0.03926		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\008F0801.D

Date : 07-JAN-2010 12:52

Client ID:

Instrument: a2hp9.i

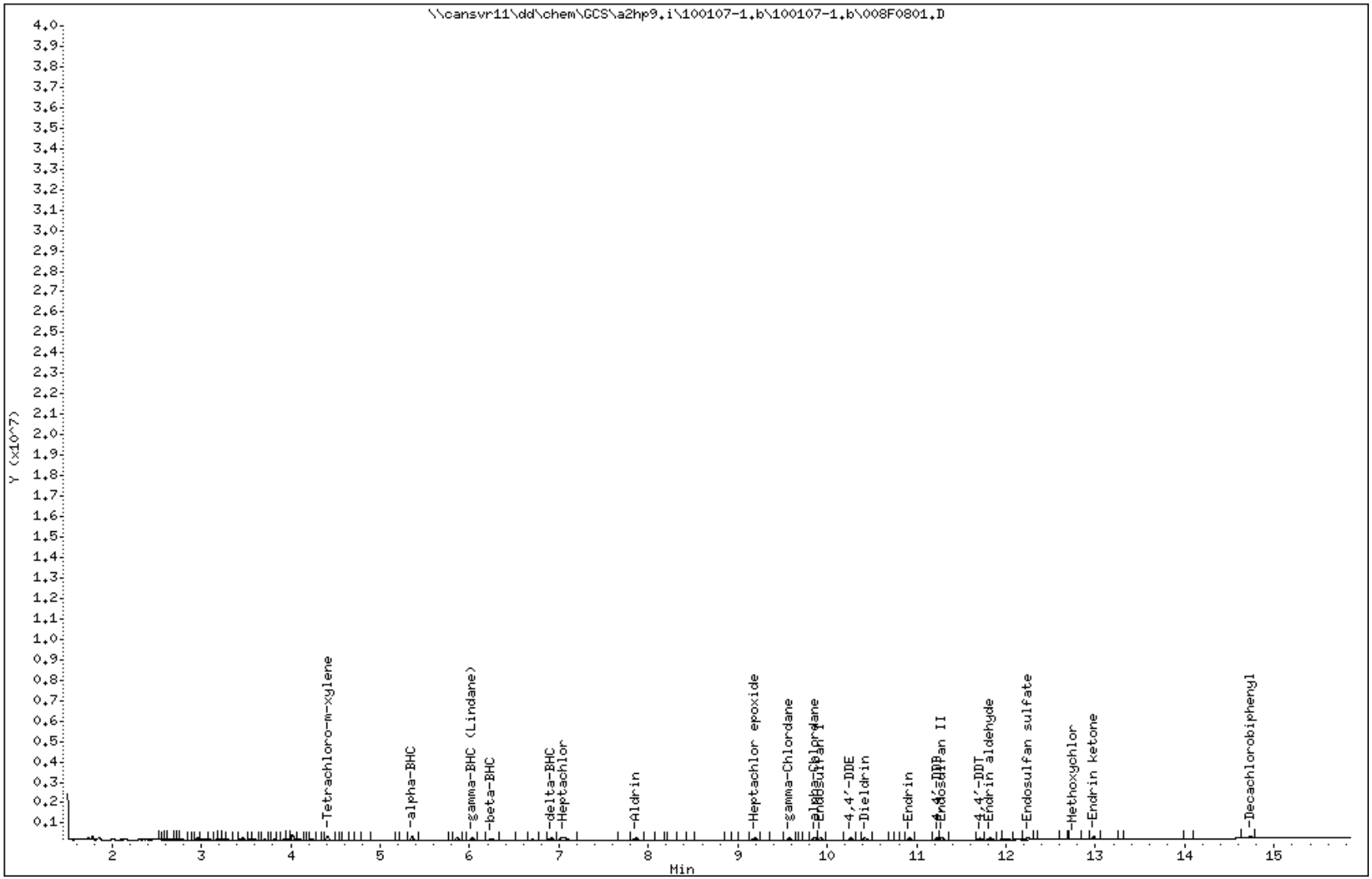
Sample Info: AB 0.4 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:52
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/008F0801.D
Lab Sample ID: AB 0.4 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.412	396824	0.004	0.042 ug/Kg
4)	alpha-BHC	5.357	328144	0.003	0.999 ug/Kg
5)	gamma-BHC (Lindane)	6.031	359272	0.004	1.236 ug/Kg
6)	beta-BHC	6.242	240367	0.006	1.865 ug/Kg
7)	delta-BHC	6.916	311830	0.003	1.109 ug/Kg
8)	Heptachlor	7.042	641042	0.007	2.428 ug/Kg
10)	Aldrin	7.862	313184	0.003	1.060 ug/Kg
12)	Heptachlor epoxide	9.193	290920	0.004	1.215 ug/Kg
13)	gamma-Chlordane	9.575	301090	0.004	1.262 ug/Kg
14)	alpha-Chlordane	9.859	279349	0.004	1.215 ug/Kg
15)	Endosulfan I	9.925	263818	0.004	1.232 ug/Kg
16)	4,4'-DDE	10.262	243923	0.003	1.131 ug/Kg
17)	Dieldrin	10.421	256088	0.003	1.118 ug/Kg
18)	Endrin	10.921	236232	0.004	1.170 ug/Kg
21)	4,4'-DDD	11.228	184095	0.004	1.261 ug/Kg
22)	Endosulfan II	11.280	237756	0.004	1.253 ug/Kg
24)	4,4'-DDT	11.710	143828	0.003	1.052 ug/Kg
25)	Endrin aldehyde	11.822	201484	0.004	1.311 ug/Kg
26)	Endosulfan sulfate	12.242	217669	0.004	1.363 ug/Kg
27)	Methoxychlor	12.754	136990	0.006	2.096 ug/Kg
29)	Endrin ketone	12.982	252292	0.004	1.334 ug/Kg
30)	Decachlorobiphenyl	14.728	231235	0.004	0.039 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\009F0901.D
Lab Smp Id: AB 0.2 SOLID MDL
Inj Date : 07-JAN-2010 13:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB 0.2 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.413	4.415	-0.002	107249	0.00210	0.02100		
4 alpha-BHC						CAS #: 319-84-6	
5.357	5.357	0.000	95605	0.00158	0.5267		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.029	6.028	0.001	198574	0.00205	0.6829		
6 beta-BHC						CAS #: 319-85-7	
6.240	6.239	0.001	170577	0.00397	1.324		
7 delta-BHC						CAS #: 319-86-8	
6.915	6.915	0.000	173603	0.00185	0.6177		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO	
8 Heptachlor						CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).								
10 Aldrin						CAS #: 309-00-2		
7.862	7.861	0.001	55184	0.00177	0.5911			
12 Heptachlor epoxide						CAS #: 1024-57-3		
9.193	9.193	0.000	172218	0.00216	0.7193			
13 gamma-Chlordane						CAS #: 5103-74-2		
9.574	9.575	-0.001	167907	0.00211	0.7037			
14 alpha-Chlordane						CAS #: 5103-71-9		
9.858	9.858	0.000	157026	0.00205	0.6832			
15 Endosulfan I						CAS #: 959-98-8		
9.924	9.924	0.000	154816	0.00217	0.7231			
16 4,4'-DDE						CAS #: 72-55-9		
10.261	10.261	0.000	146965	0.00204	0.6812			
17 Dieldrin						CAS #: 60-57-1		
10.421	10.420	0.001	64392	0.00192	0.6403			
18 Endrin						CAS #: 72-20-8		
10.919	10.920	-0.001	63556	0.00205	0.6846			
21 4,4'-DDD						CAS #: 72-54-8		
11.227	11.228	-0.001	96620	0.00199	0.6618			
22 Endosulfan II						CAS #: 33213-65-9		
11.278	11.278	0.000	59781	0.00202	0.6741			
24 4,4'-DDT						CAS #: 50-29-3		
11.709	11.708	0.001	87177	0.00191	0.6377			
25 Endrin aldehyde						CAS #: 7421-93-4		
11.822	11.823	-0.001	54847	0.00225	0.7497			
26 Endosulfan sulfate						CAS #: 1031-07-8		
12.243	12.242	0.001	58401	0.00226	0.7536			
27 Methoxychlor						CAS #: 72-43-5		
12.753	12.753	0.000	55800	0.00256	0.8536			(M)
29 Endrin ketone						CAS #: 53494-70-5		
12.979	12.982	-0.003	73049	0.00230	0.7663			
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3		

```
14.726  14.728   -0.002          130077 0.00221  0.02208
--------------------------------------------------------------------------------
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QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\009F0901.D

Date : 07-JAN-2010 13:17

Client ID:

Instrument: a2hp9.i

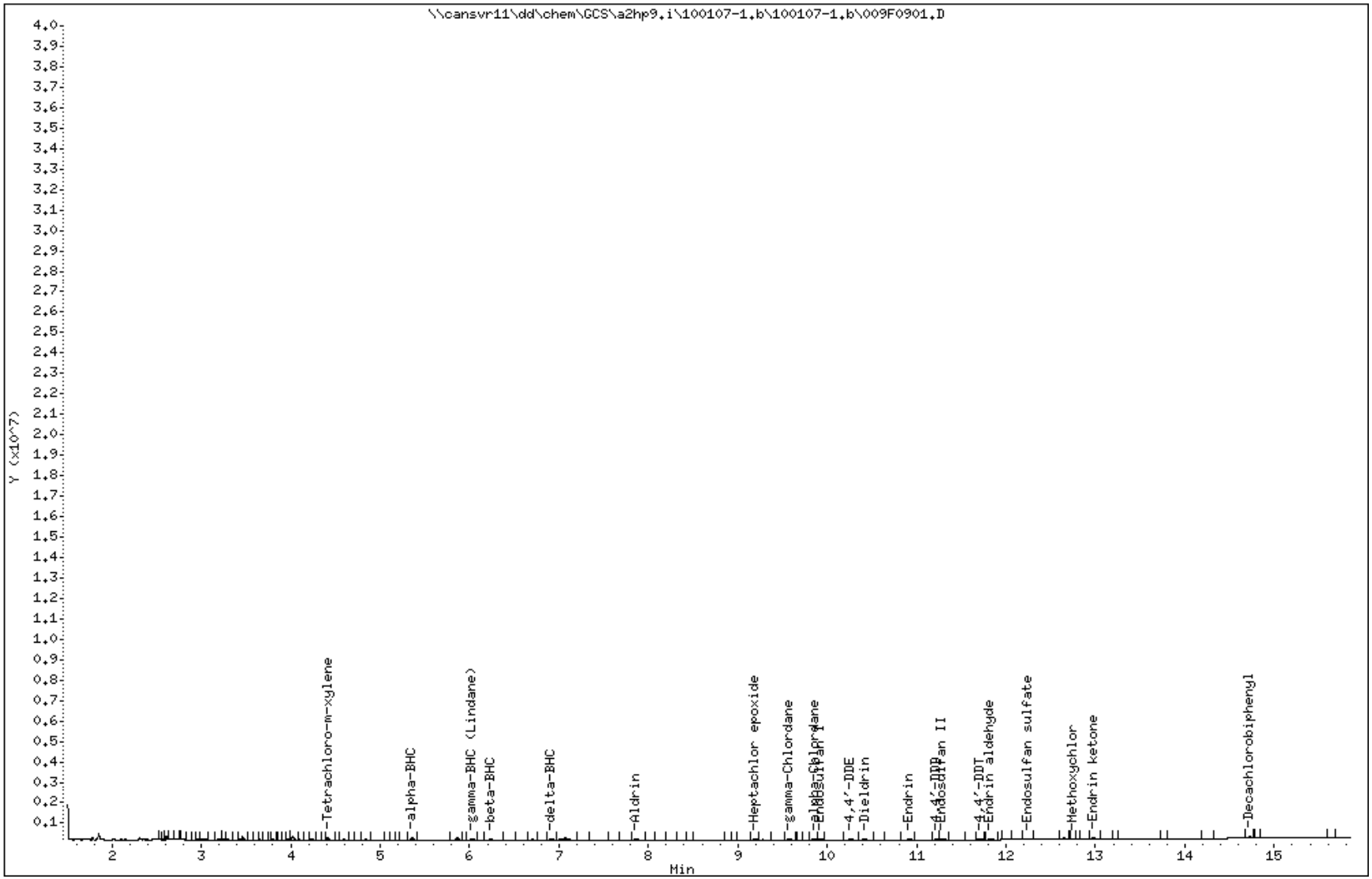
Sample Info: AB 0.2 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

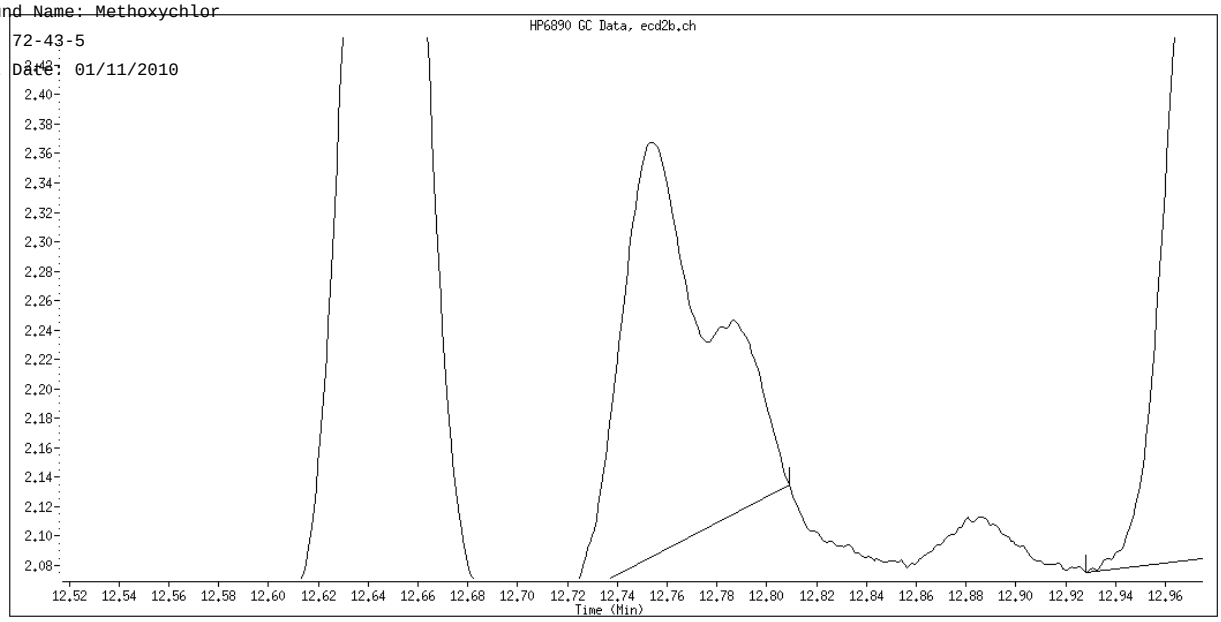


COMPOUNDS and EXP. RT REPORT

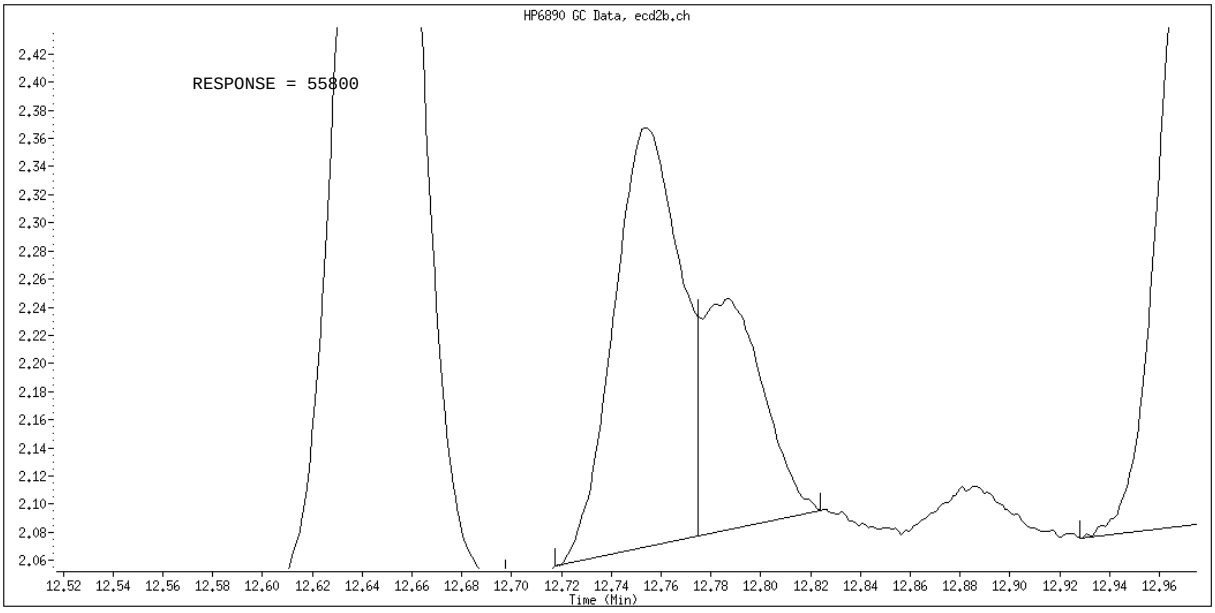
Operator: 093905 Date Acquired: 07-JAN-2010 13:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/009F0901.D
Lab Sample ID: AB 0.2 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.413	202210	0.002	0.021 ug/Kg
4) alpha-BHC	5.357	186032	0.002	0.527 ug/Kg
5) gamma-BHC (Lindane)	6.030	198574	0.002	0.683 ug/Kg
6) beta-BHC	6.241	170577	0.004	1.324 ug/Kg
7) delta-BHC	6.916	173603	0.002	0.618 ug/Kg
8) Heptachlor	NOT DETECTED Expected RT = 7.031			
10) Aldrin	7.862	171429	0.002	0.591 ug/Kg
12) Heptachlor epoxide	9.193	172218	0.002	0.719 ug/Kg
13) gamma-Chlordane	9.575	167907	0.002	0.704 ug/Kg
14) alpha-Chlordane	9.858	157026	0.002	0.683 ug/Kg
15) Endosulfan I	9.924	154816	0.002	0.723 ug/Kg
16) 4,4'-DDE	10.262	146965	0.002	0.681 ug/Kg
17) Dieldrin	10.422	157390	0.002	0.640 ug/Kg
18) Endrin	10.920	140373	0.002	0.685 ug/Kg
21) 4,4'-DDD	11.227	96620	0.002	0.662 ug/Kg
22) Endosulfan II	11.278	127651	0.002	0.674 ug/Kg
24) 4,4'-DDT	11.710	87177	0.002	0.638 ug/Kg
25) Endrin aldehyde	11.822	113544	0.002	0.750 ug/Kg
26) Endosulfan sulfate	12.243	125096	0.002	0.754 ug/Kg
27) Methoxychlor	12.753	55800	0.003	0.854 ug/Kg
29) Endrin ketone	12.980	154864	0.002	0.766 ug/Kg
30) Decachlorobiphenyl	14.727	130077	0.002	0.022 ug/Kg

Data File Name: 009F0901.D
Inj. Date and Time: 07-JAN-2010 13:17
Instrument ID: a2hp9.i
Client ID:
Compound Name: Methoxychlor
CAS #: 72-43-5
Report Date: 01/11/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\010F1001.D
Lab Smp Id: TC SOLID MDL
Inj Date : 07-JAN-2010 13:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TC SOLID MDL
Misc Info : SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 15-TECHLOR.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

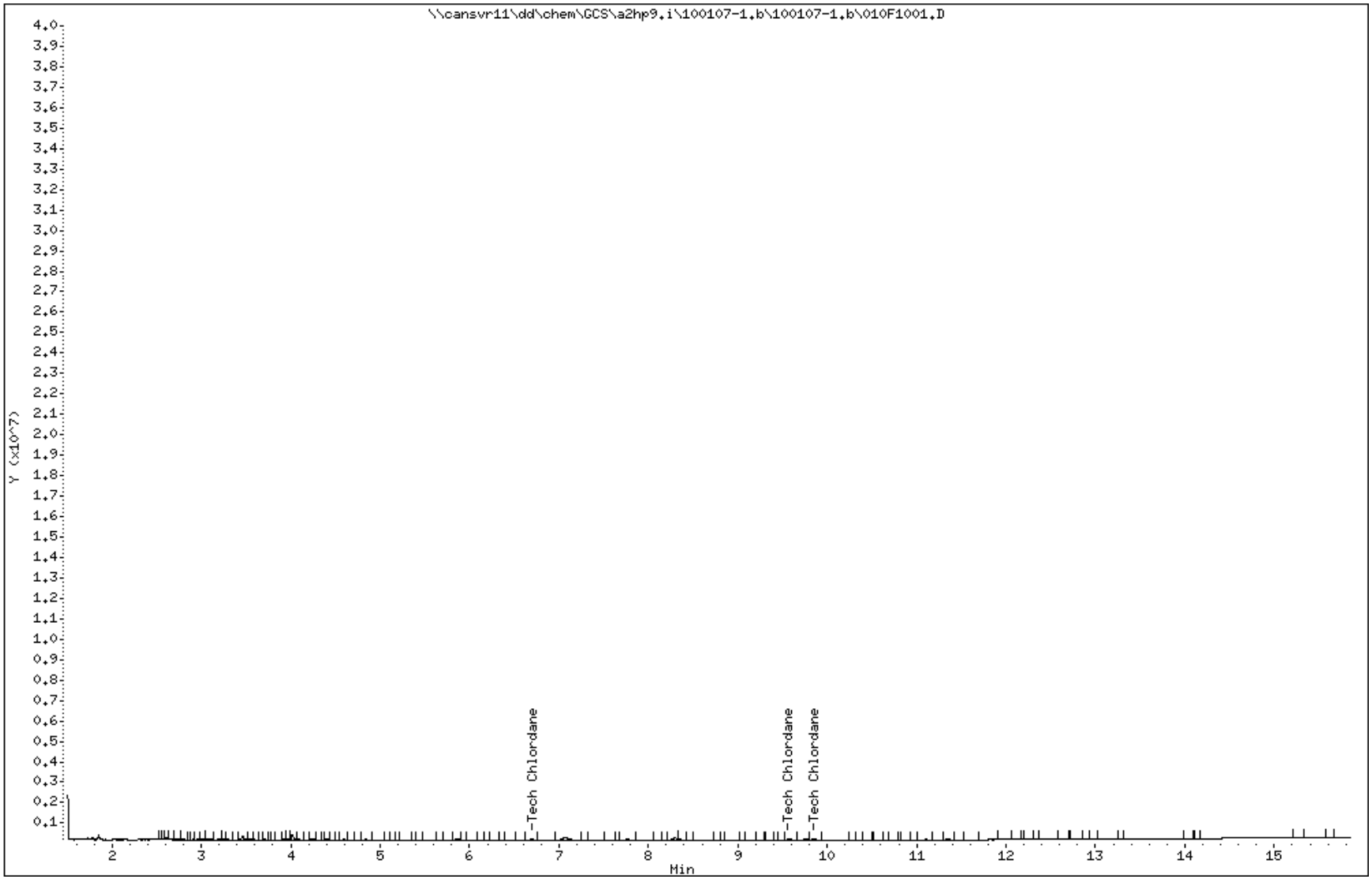
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE		RATIO
9 Tech Chlordane					CAS #: 57-74-9			
6.704	6.671	0.033	34043	0.02786	9.288	0.00-	20.00	100.00(M)
8.305	8.305	0.000	0	0.0000	0.0000	0.00-	20.00	0.00
9.571	9.573	-0.002	54042	0.01389	4.631	0.00-	20.00	158.75
9.856	9.858	-0.002	40686	0.01245	4.149	0.00-	20.00	119.51
Average of Peak Concentrations =					6.023			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\010F1001.D Page 1
Date : 07-JAN-2010 13:42
Client ID:
Sample Info: TC SOLID MDL
Volume Injected (uL): 1.0
Column phase: clp pesticides II
Instrument: a2hp9.i
Operator: 093905
Column diameter: 0.53

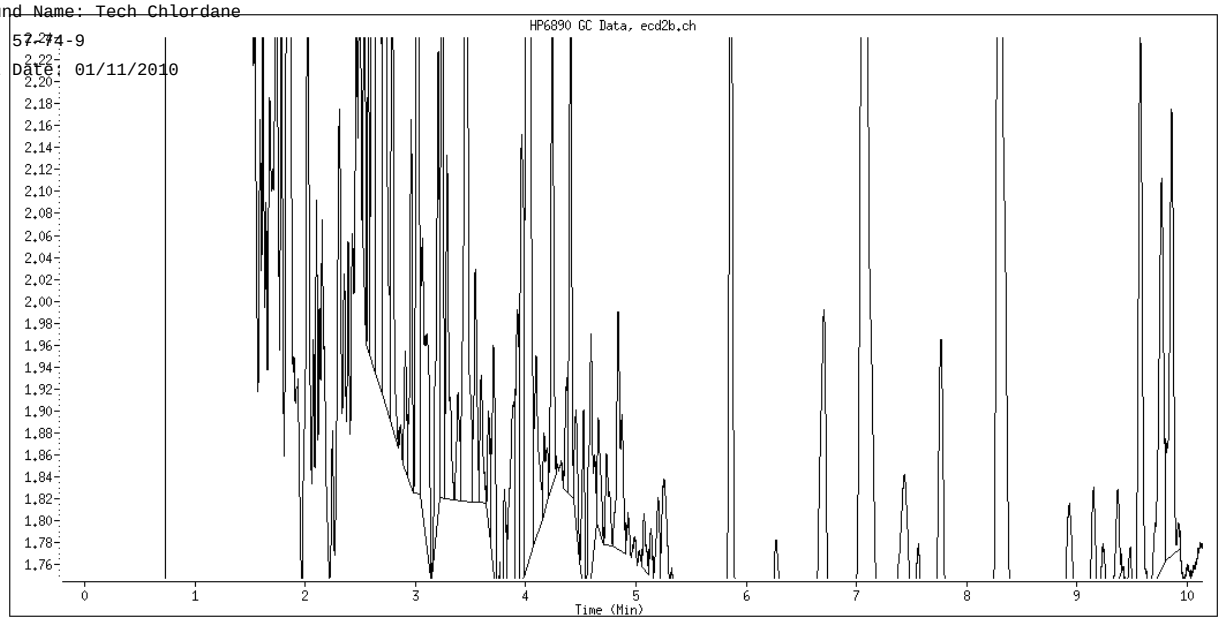


COMPOUNDS and EXP. RT REPORT

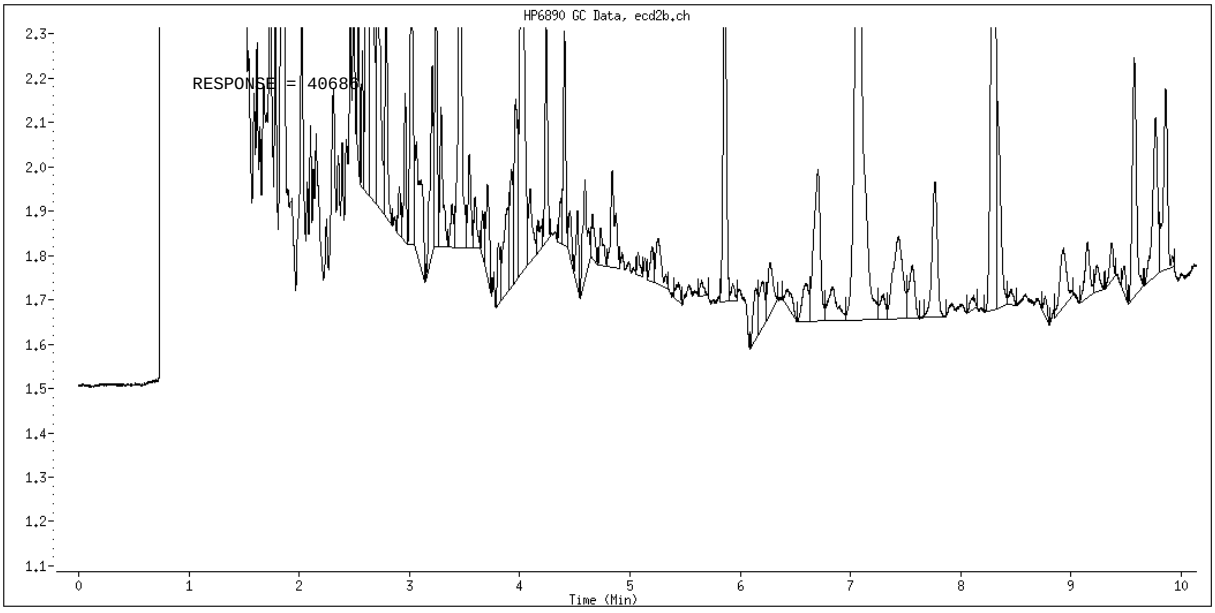
Operator: 093905 Date Acquired: 07-JAN-2010 13:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/010F1001.D
Lab Sample ID: TC SOLID MDL
Misc. Info: SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
9) Tech Chlordane	6.704	143380	0.028	9.288 ug/Kg

Data File Name: 010F1001.D
Inj. Date and Time: 07-JAN-2010 13:42
Instrument ID: a2hp9.i
Client ID:
Compound Name: Tech Chlordane
CAS #: 57-74-9
Report Date: 01/11/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\012F1201.D
Lab Smp Id: MDL SOLID BLK
Inj Date : 07-JAN-2010 14:32
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MDL SOLID BLK
Misc Info : SOLID MDL BLANK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.404	4.415	-0.011	28970	6e-004	0.005673		

2 Diallate CAS #: 2303-16-4

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene CAS #: 118-74-1

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 beta-BHC CAS #: 319-85-7

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

9.909 9.924 -0.015 10413 1e-004 0.04864

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16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

19 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

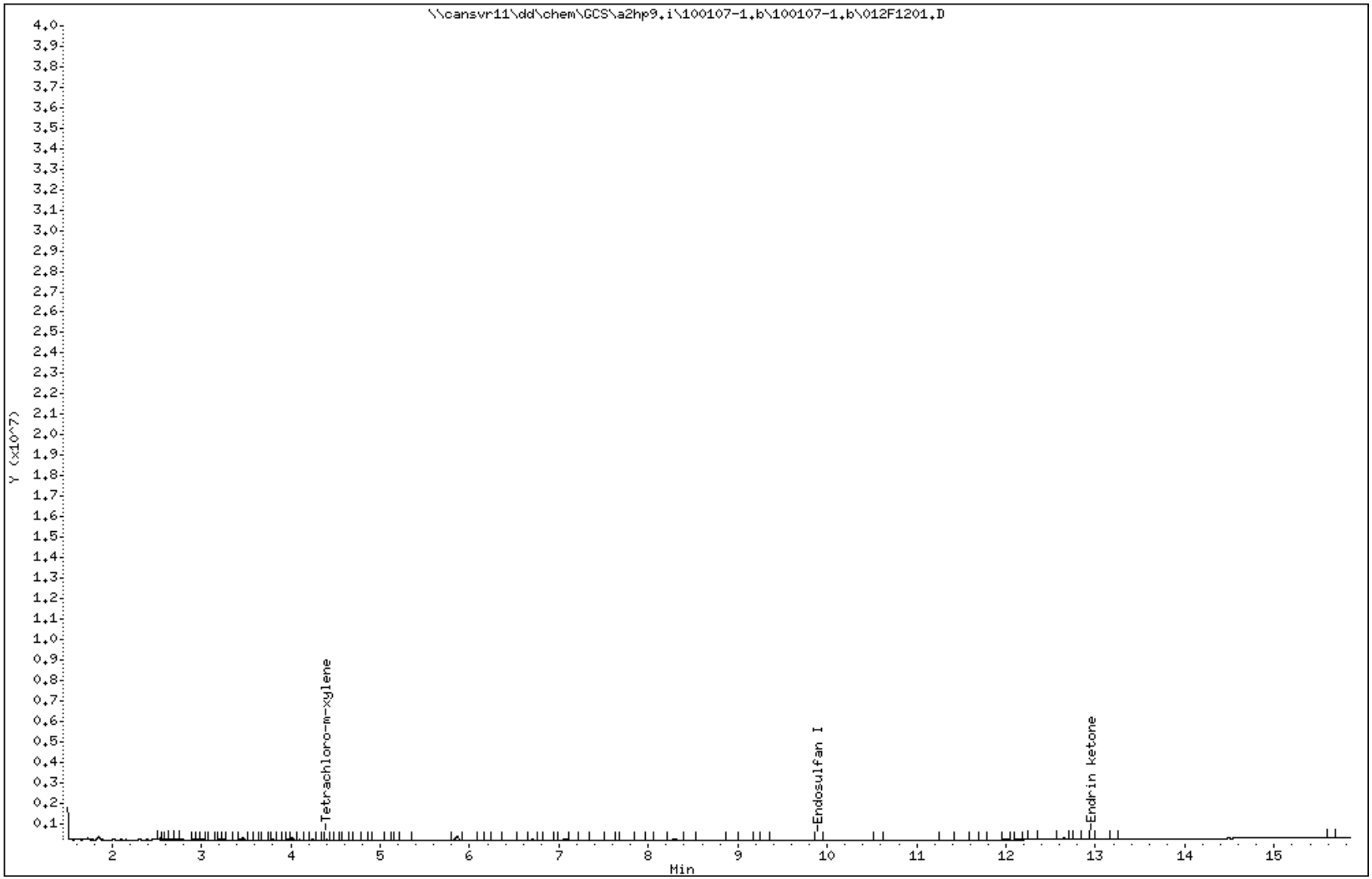
12.967	12.982	-0.015	6706	2e-004	0.07035

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\012F1201.D Page 1
Date : 07-JAN-2010 14:32
Client ID:
Instrument: a2hp9.i
Sample Info: MDL SOLID BLK
Volume Injected (uL): 1.0
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 14:32
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/012F1201.D
Lab Sample ID: MDL SOLID BLK
Misc. Info: SOLID MDL BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.405	57103	0.001	0.006 ug/Kg
2) Diallate	NOT DETECTED	Expected RT = 5.042		
3) Hexachlorobenzene	NOT DETECTED	Expected RT = 5.105		
4) alpha-BHC	NOT DETECTED	Expected RT = 5.357		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 6.029		
6) beta-BHC	NOT DETECTED	Expected RT = 6.240		
9) Tech Chlordane	NOT DETECTED	Expected RT = 6.672		
7) delta-BHC	NOT DETECTED	Expected RT = 6.916		
8) Heptachlor	NOT DETECTED	Expected RT = 7.031		
10) Aldrin	NOT DETECTED	Expected RT = 7.861		
11) Isodrin	NOT DETECTED	Expected RT = 8.772		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 9.193		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 9.575		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 9.859		
15) Endosulfan I	9.909	10413	0.000	0.049 ug/Kg
16) 4,4'-DDE	NOT DETECTED	Expected RT = 10.261		
17) Dieldrin	NOT DETECTED	Expected RT = 10.421		
18) Endrin	NOT DETECTED	Expected RT = 10.921		
19) Chlorobenzilate	NOT DETECTED	Expected RT = 11.058		
20) Kepone	NOT DETECTED	Expected RT = 11.092		
21) 4,4'-DDD	NOT DETECTED	Expected RT = 11.228		
22) Endosulfan II	NOT DETECTED	Expected RT = 11.279		
23) Toxaphene	NOT DETECTED	Expected RT = 11.424		
24) 4,4'-DDT	NOT DETECTED	Expected RT = 11.709		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 11.823		
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.242		
27) Methoxychlor	NOT DETECTED	Expected RT = 12.754		
28) Mirex	NOT DETECTED	Expected RT = 12.864		
29) Endrin ketone	12.967	10973	0.000	0.070 ug/Kg
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.728		

TestAmerica North Canton

PESTICIDES 8081/608

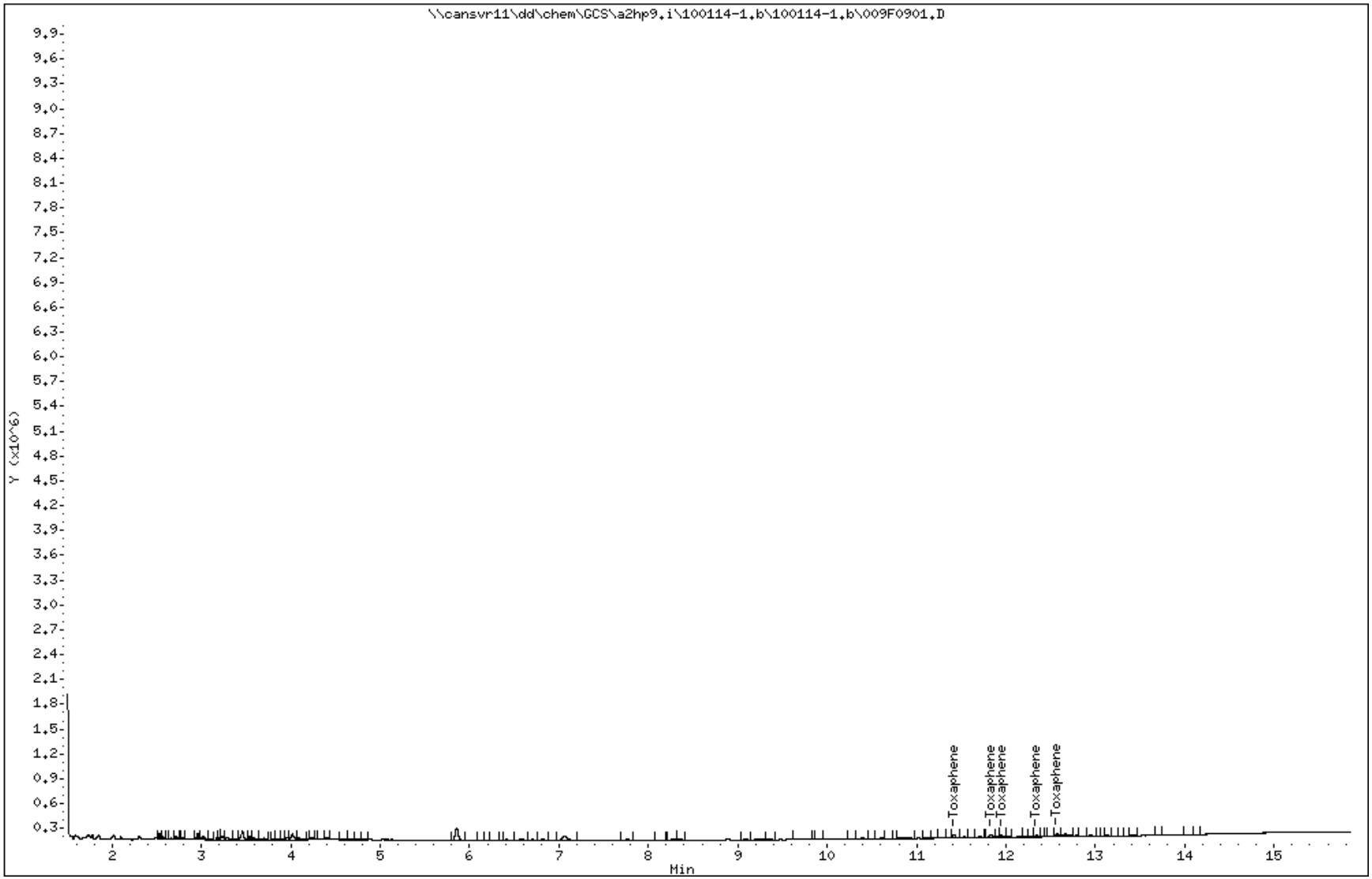
Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\009F0901.D
Lab Smp Id: TOX SOLID MDL
Inj Date : 14-JAN-2010 12:22
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL
Misc Info : TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Jan-2010 12:44 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.417	11.418	-0.001	41415	0.03794	12.65	80.00- 120.00	100.00
11.830	11.829	0.001	38821	0.03749	12.50	114.04- 154.04	93.74
11.948	11.948	0.000	22802	0.03585	11.95	115.64- 155.64	55.06
12.340	12.345	-0.005	17967	0.03422	11.40	52.78- 92.78	43.38
12.572	12.571	0.001	34059	0.03804	12.68	69.36- 109.36	82.24
Average of Peak Concentrations =					12.24		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\009F0901.D Page 1
Date : 14-JAN-2010 12:22
Client ID: Instrument: a2hp9.i
Sample Info: TOX SOLID MDL
Volume Injected (uL): 1.0 Operator: 093905
Column phase: clp pesticides II Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 14-JAN-2010 12:22
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/100114-1.b/009F0901.D
Lab Sample ID: TOX SOLID MDL
Misc. Info: TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.418	91360	0.038	12.647 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\010F1001.D
Lab Smp Id: TOX SOLID MDL BL
Inj Date : 14-JAN-2010 12:46
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL BL
Misc Info : TOX SOLID MDL VERIFICATION BLANK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Jan-2010 12:44 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.402	4.412	-0.010	37890	7e-004	0.007420		

2 Diallate CAS #: 2303-16-4

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene CAS #: 118-74-1

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
Peaks not detected for Quant. or Qual. signal(s).							
6 beta-BHC					CAS #: 319-85-7		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
6.675	6.664	0.011	3438	0.00281	0.9380	0.00- 20.00	100.00
8.287	8.298	-0.011	27561	0.01769	5.897	0.00- 20.00	801.66
0.000	9.567	-9.567	0	0.0000	0.0000	0.00- 20.00	0.00
0.000	9.852	-9.852	0	0.0000	0.0000	0.00- 20.00	0.00
Average of Peak Concentrations =					3.417		
7 delta-BHC					CAS #: 319-86-8		
Peaks not detected for Quant. or Qual. signal(s).							
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
10 Aldrin					CAS #: 309-00-2		
Peaks not detected for Quant. or Qual. signal(s).							
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
Peaks not detected for Quant. or Qual. signal(s).							

```
--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.906    9.917   -0.011           13599  2e-004  0.06352
--------------------------------------------------------------------------------
   16 4,4'-DDE                                    CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

19 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

11.802	11.816	-0.014	2478	1.e-004			0.03387

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

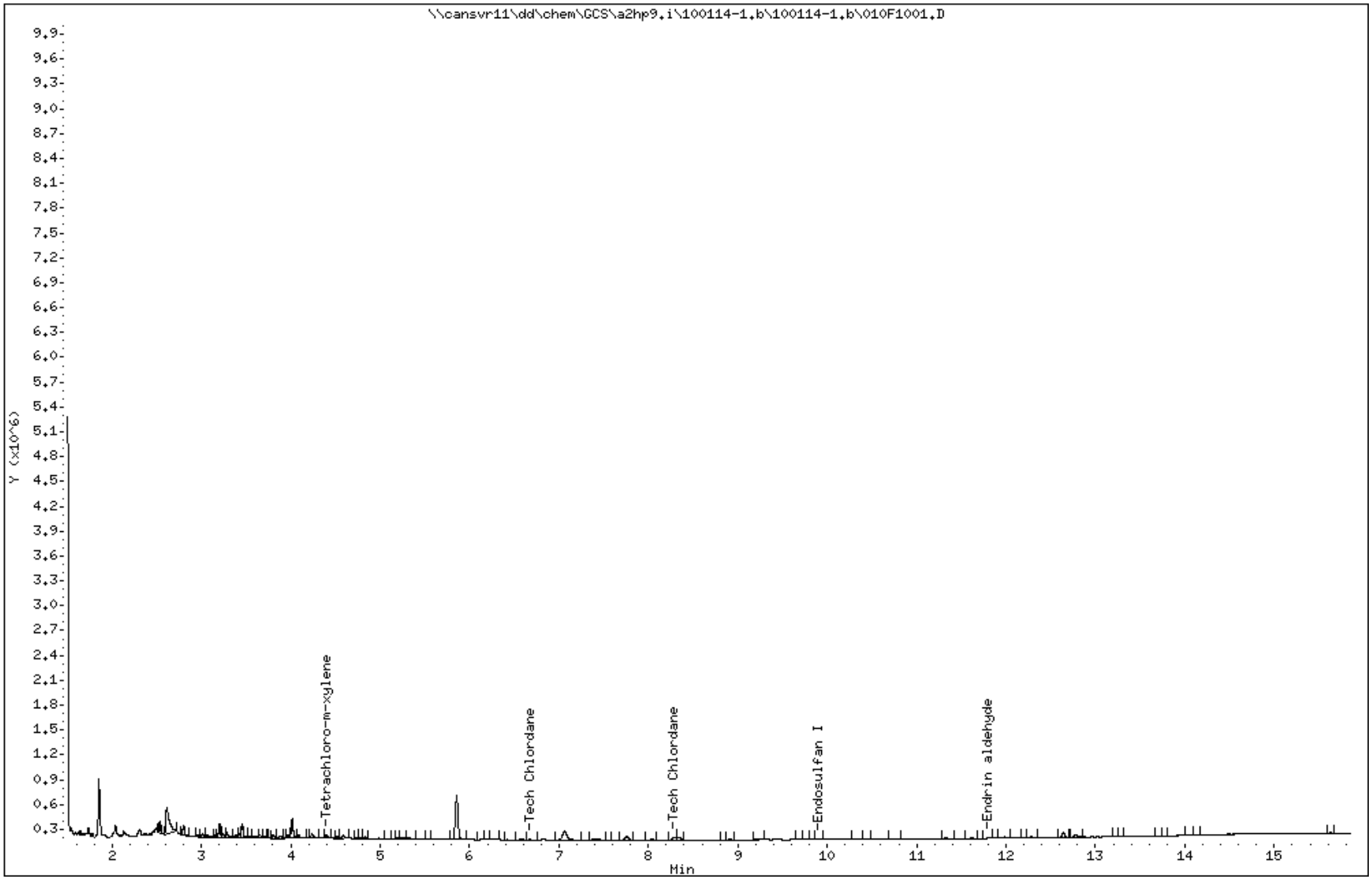
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\010F1001.D Page 1
Date : 14-JAN-2010 12:46
Client ID:
Instrument: a2hp9.i
Sample Info: TOX SOLID MDL BL
Volume Injected (uL): 1.0
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 14-JAN-2010 12:46
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/100114-1.b/010F1001.D
Lab Sample ID: TOX SOLID MDL BL
Misc. Info: TOX SOLID MDL VERIFICATION BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.402	62602	0.001	0.007 ug/Kg
2)	Diallate	NOT DETECTED	Expected RT = 5.042		
3)	Hexachlorobenzene	NOT DETECTED	Expected RT = 5.105		
4)	alpha-BHC	NOT DETECTED	Expected RT = 5.351		
5)	gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 6.022		
6)	beta-BHC	NOT DETECTED	Expected RT = 6.232		
9)	Tech Chlordane	6.675	11551	0.003	0.938 ug/Kg
7)	delta-BHC	NOT DETECTED	Expected RT = 6.907		
8)	Heptachlor	NOT DETECTED	Expected RT = 7.023		
10)	Aldrin	NOT DETECTED	Expected RT = 7.853		
11)	Isodrin	NOT DETECTED	Expected RT = 8.772		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 9.186		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 9.568		
14)	alpha-Chlordane	NOT DETECTED	Expected RT = 9.852		
15)	Endosulfan I	9.906	13599	0.000	0.064 ug/Kg
16)	4,4'-DDE	NOT DETECTED	Expected RT = 10.256		
17)	Dieldrin	NOT DETECTED	Expected RT = 10.414		
18)	Endrin	NOT DETECTED	Expected RT = 10.913		
19)	Chlorobenzilate	NOT DETECTED	Expected RT = 11.058		
20)	Kepone	NOT DETECTED	Expected RT = 11.092		
21)	4,4'-DDD	NOT DETECTED	Expected RT = 11.222		
22)	Endosulfan II	NOT DETECTED	Expected RT = 11.272		
23)	Toxaphene	NOT DETECTED	Expected RT = 11.418		
24)	4,4'-DDT	NOT DETECTED	Expected RT = 11.702		
25)	Endrin aldehyde	11.803	8110	0.000	0.034 ug/Kg
26)	Endosulfan sulfate	NOT DETECTED	Expected RT = 12.236		
27)	Methoxychlor	NOT DETECTED	Expected RT = 12.749		
28)	Mirex	NOT DETECTED	Expected RT = 12.864		
29)	Endrin ketone	NOT DETECTED	Expected RT = 12.976		
30)	Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.722		

TestAmerica
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RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWET71AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C090000-032
Prep Date.....: 03/09/10 **Analysis Date..:** 03/17/10
Prep Batch #...: 0068032
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
gamma-BHC (Lindane)	**95**	**(60 - 125)**	**SW846 8081A**
Heptachlor	**95**	**(50 - 140)**	**SW846 8081A**
Aldrin	**85**	**(45 - 140)**	**SW846 8081A**
Dieldrin	**97**	**(65 - 125)**	**SW846 8081A**
Endrin	**100**	**(60 - 135)**	**SW846 8081A**
4,4'-DDT	**101**	**(45 - 140)**	**SW846 8081A**
alpha-BHC	**93**	**(60 - 125)**	**SW846 8081A**
beta-BHC	**89**	**(60 - 125)**	**SW846 8081A**
delta-BHC	**95**	**(55 - 130)**	**SW846 8081A**
Heptachlor epoxide	**94**	**(65 - 130)**	**SW846 8081A**
Endosulfan I	**77**	**(15 - 135)**	**SW846 8081A**
4,4'-DDE	**93**	**(70 - 125)**	**SW846 8081A**
Endosulfan II	**85**	**(35 - 140)**	**SW846 8081A**
4,4'-DDD	**96**	**(30 - 135)**	**SW846 8081A**
Endosulfan sulfate	**96**	**(60 - 135)**	**SW846 8081A**
Methoxychlor	**99**	**(55 - 145)**	**SW846 8081A**
Endrin ketone	**91**	**(65 - 135)**	**SW846 8081A**
Endrin aldehyde	**77**	**(35 - 145)**	**SW846 8081A**
alpha-Chlordane	**94**	**(65 - 120)**	**SW846 8081A**
gamma-Chlordane	**97**	**(65 - 125)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	92	(70 - 125)
Decachlorobiphenyl	95	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWET71AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C090000-032
Prep Date.....: 03/09/10 **Analysis Date..:** 03/17/10
Prep Batch #...: 0068032
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
gamma-BHC (Lindane)	**33**	**32**	**ug/kg**	**95**	**SW846 8081A**
Heptachlor	**33**	**32**	**ug/kg**	**95**	**SW846 8081A**
Aldrin	**33**	**28**	**ug/kg**	**85**	**SW846 8081A**
Dieldrin	**33**	**32**	**ug/kg**	**97**	**SW846 8081A**
Endrin	**33**	**33**	**ug/kg**	**100**	**SW846 8081A**
4,4'-DDT	**33**	**34**	**ug/kg**	**101**	**SW846 8081A**
alpha-BHC	**33**	**31**	**ug/kg**	**93**	**SW846 8081A**
beta-BHC	**33**	**30**	**ug/kg**	**89**	**SW846 8081A**
delta-BHC	**33**	**32**	**ug/kg**	**95**	**SW846 8081A**
Heptachlor epoxide	**33**	**31**	**ug/kg**	**94**	**SW846 8081A**
Endosulfan I	**33**	**26**	**ug/kg**	**77**	**SW846 8081A**
4,4'-DDE	**33**	**31**	**ug/kg**	**93**	**SW846 8081A**
Endosulfan II	**33**	**28**	**ug/kg**	**85**	**SW846 8081A**
4,4'-DDD	**33**	**32**	**ug/kg**	**96**	**SW846 8081A**
Endosulfan sulfate	**33**	**32**	**ug/kg**	**96**	**SW846 8081A**
Methoxychlor	**33**	**33**	**ug/kg**	**99**	**SW846 8081A**
Endrin ketone	**33**	**30**	**ug/kg**	**91**	**SW846 8081A**
Endrin aldehyde	**33**	**26**	**ug/kg**	**77**	**SW846 8081A**
alpha-Chlordane	**33**	**31**	**ug/kg**	**94**	**SW846 8081A**
gamma-Chlordane	**33**	**32**	**ug/kg**	**97**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	92	(70 - 125)
Decachlorobiphenyl	95	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\032F3201.D
Lab Smp Id: LWET71AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 17-MAR-2010 01:12
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LWET71AC
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 32 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.795	3.794	0.001	1553469	0.01846	0.1846		
4 alpha-BHC						CAS #: 319-84-6	
4.497	4.495	0.002	12380892	0.09300	31.00		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.919	4.919	0.000	15660851	0.09486	31.62		
6 beta-BHC						CAS #: 319-85-7	
5.066	5.066	0.000	3603004	0.08911	29.70		
7 delta-BHC						CAS #: 319-86-8	
5.314	5.314	0.000	15671358	0.09455	31.52		
		Sum of Peak Concentrations =			31.52		
8 Heptachlor						CAS #: 76-44-8	
5.638	5.638	0.000	7483442	0.09505	31.68		

```
   10 Aldrin                                      CAS #: 309-00-2
6.164    6.164    0.000        13329601 0.08494    28.31
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.599	7.601	-0.002	4386691	0.09438	31.46		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.899	7.901	-0.002	4802294	0.09641	32.14		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.213	8.214	-0.001	4834059	0.09421	31.40		
15 Endosulfan I						CAS #: 959-98-8	
8.469	8.469	0.000	3738091	0.07704	25.68		
16 4,4'-DDE						CAS #: 72-55-9	
8.538	8.540	-0.002	13034500	0.09322	31.07		
17 Dieldrin						CAS #: 60-57-1	
8.980	8.982	-0.002	13958986	0.09732	32.44		
18 Endrin						CAS #: 72-20-8	
9.405	9.407	-0.002	5464491	0.10029	33.43		
20 4,4'-DDD						CAS #: 72-54-8	
9.718	9.721	-0.003	11250710	0.09604	32.01		
22 Endosulfan II						CAS #: 33213-65-9	
9.827	9.830	-0.003	4432128	0.08447	28.16		
23 4,4'-DDT						CAS #: 50-29-3	
10.208	10.209	-0.001	10345442	0.10129	33.76		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.580	10.584	-0.004	3463372	0.07736	25.78		
27 Methoxychlor						CAS #: 72-43-5	
11.105	11.108	-0.003	5311329	0.09937	33.12		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.283	11.284	-0.001	10619405	0.09591	31.97		
29 Endrin ketone						CAS #: 53494-70-5	
11.677	11.679	-0.002	5762808	0.09108	30.36		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.232	13.233	-0.001	1129349	0.01901	0.1901		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\032F3201.D

Page 1

Date : 17-MAR-2010 01:12

Client ID: INTRA-LAB CHECK

Instrument: a2hp9.i

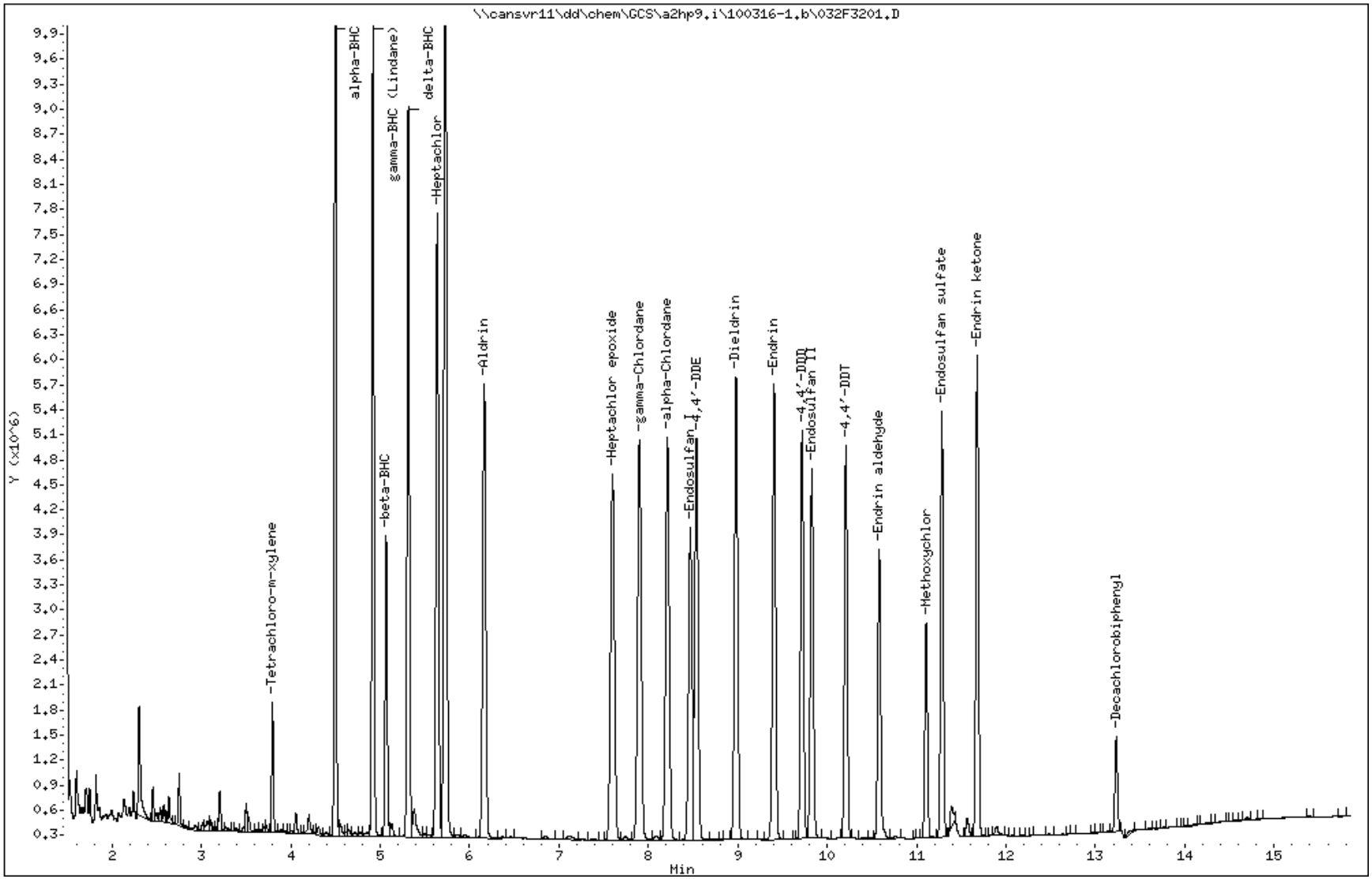
Sample Info: LWET71AC

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

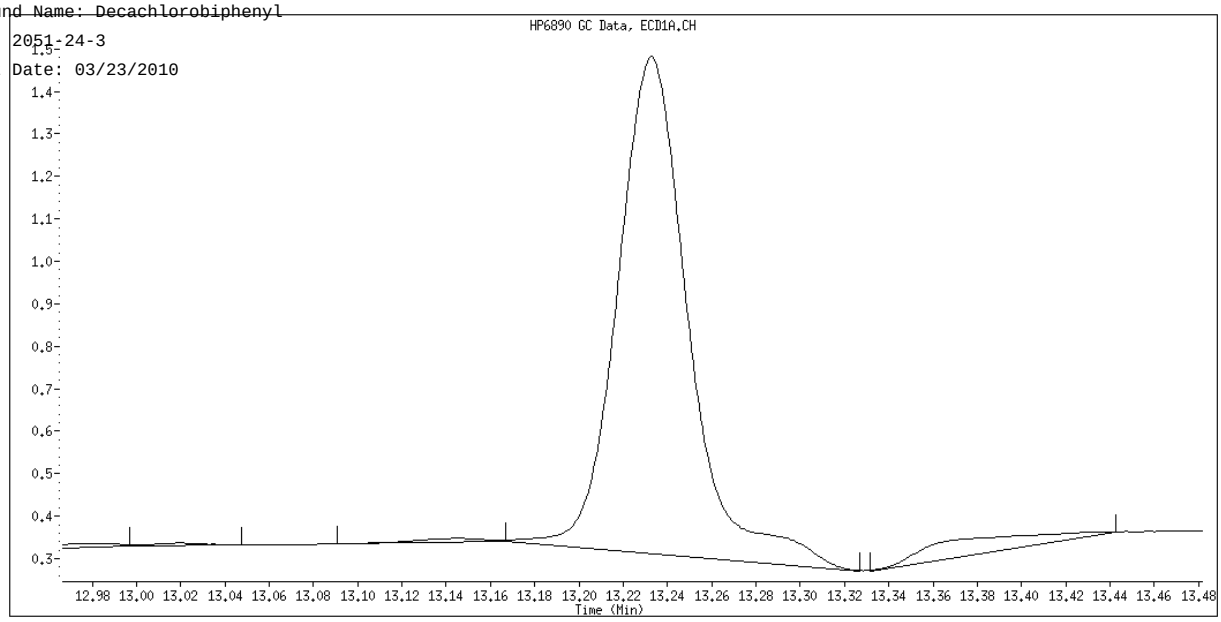


COMPOUNDS and EXP. RT REPORT

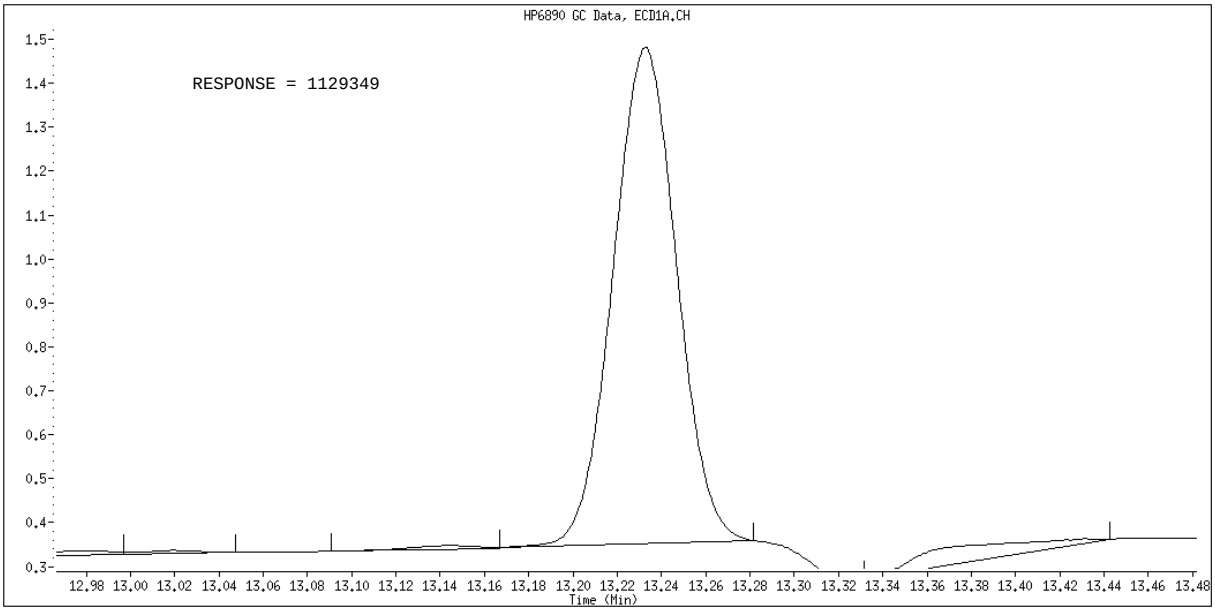
Operator: 093905 Date Acquired: 17-MAR-2010 01:12
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/032F3201.D
Lab Sample ID: LWET71AC
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.796	2105222	0.018	0.185 ug/Kg
4) alpha-BHC	4.498	17263286	0.093	31.000 ug/Kg
5) gamma-BHC (Lindane)	4.919	15660851	0.095	31.621 ug/Kg
6) beta-BHC	5.067	6002053	0.089	29.704 ug/Kg
7) delta-BHC	5.314	15671358	0.095	31.515 ug/Kg
8) Heptachlor	5.638	15452864	0.095	31.683 ug/Kg
10) Aldrin	6.164	13329601	0.085	28.314 ug/Kg
12) Heptachlor epoxide	7.599	13439905	0.094	31.459 ug/Kg
13) gamma-Chlordane	7.899	14081753	0.096	32.137 ug/Kg
14) alpha-Chlordane	8.213	13436609	0.094	31.403 ug/Kg
15) Endosulfan I	8.469	10161502	0.077	25.679 ug/Kg
16) 4,4'-DDE	8.538	13034500	0.093	31.074 ug/Kg
17) Dieldrin	8.981	13958986	0.097	32.440 ug/Kg
18) Endrin	9.406	13341385	0.100	33.430 ug/Kg
20) 4,4'-DDD	9.718	11250710	0.096	32.013 ug/Kg
22) Endosulfan II	9.828	10467827	0.084	28.158 ug/Kg
23) 4,4'-DDT	10.208	10345442	0.101	33.763 ug/Kg
25) Endrin aldehyde	10.581	7959383	0.077	25.786 ug/Kg
27) Methoxychlor	11.106	5311329	0.099	33.124 ug/Kg
28) Endosulfan sulfate	11.283	10619405	0.096	31.971 ug/Kg
29) Endrin ketone	11.678	11961837	0.091	30.361 ug/Kg
30) Decachlorobiphenyl	13.233	2253752	0.019	0.190 ug/Kg

Data File Name: 032F3201.D
Inj. Date and Time: 17-MAR-2010 01:12
Instrument ID: a2hp9.i
Client ID: INTRA-LAB CHECK
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/23/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\032F3201.D
Lab Smp Id: LWET71AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 17-MAR-2010 01:12
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LWET71AC
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 32 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.365	4.365	0.000	926997	0.01896	0.1896		
4 alpha-BHC						CAS #: 319-84-6	
5.283	5.282	0.001	10470837	0.09725	32.42		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.936	5.936	0.000	9532877	0.09693	32.31		
6 beta-BHC						CAS #: 319-85-7	
6.142	6.142	0.000	1700190	0.09274	30.91		
7 delta-BHC						CAS #: 319-86-8	
6.795	6.796	-0.001	9727339	0.09920	33.07		
8 Heptachlor						CAS #: 76-44-8	
6.911	6.913	-0.002	8975275	0.09454	31.51		

```
   10 Aldrin                                      CAS #: 309-00-2
7.737    7.737    0.000         2801731 0.09335    31.12
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.085	9.084	0.001	7633457	0.09412	31.37		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.470	9.471	-0.001	7717758	0.09511	31.70		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.756	9.757	-0.001	7447628	0.09402	31.34		
15 Endosulfan I					CAS #: 959-98-8		
9.820	9.821	-0.001	5991032	0.08058	26.86		
16 4,4'-DDE					CAS #: 72-55-9		
10.163	10.164	-0.001	3301123	0.09999	33.33		
17 Dieldrin					CAS #: 60-57-1		
10.318	10.319	-0.001	7650630	0.09959	33.20		
18 Endrin					CAS #: 72-20-8		
10.819	10.819	0.000	7076714	0.10074	33.58		
21 4,4'-DDD					CAS #: 72-54-8		
11.136	11.138	-0.002	2996753	0.10170	33.90		
22 Endosulfan II					CAS #: 33213-65-9		
11.179	11.181	-0.002	2783344	0.08616	28.72		
24 4,4'-DDT					CAS #: 50-29-3		
11.620	11.620	0.000	2571309	0.10109	33.70		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.726	11.727	-0.001	4363749	0.08042	26.81		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.149	12.150	-0.001	3004660	0.10021	33.40		
27 Methoxychlor					CAS #: 72-43-5		
12.669	12.669	0.000	2746730	0.10395	34.65		
29 Endrin ketone					CAS #: 53494-70-5		
12.887	12.888	-0.001	6616209	0.09504	31.68		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.640	14.640	0.000	1259250	0.01964	0.1964		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\032F3201.D

Date : 17-MAR-2010 01:12

Client ID: INTRA-LAB CHECK

Instrument: a2hp9.i

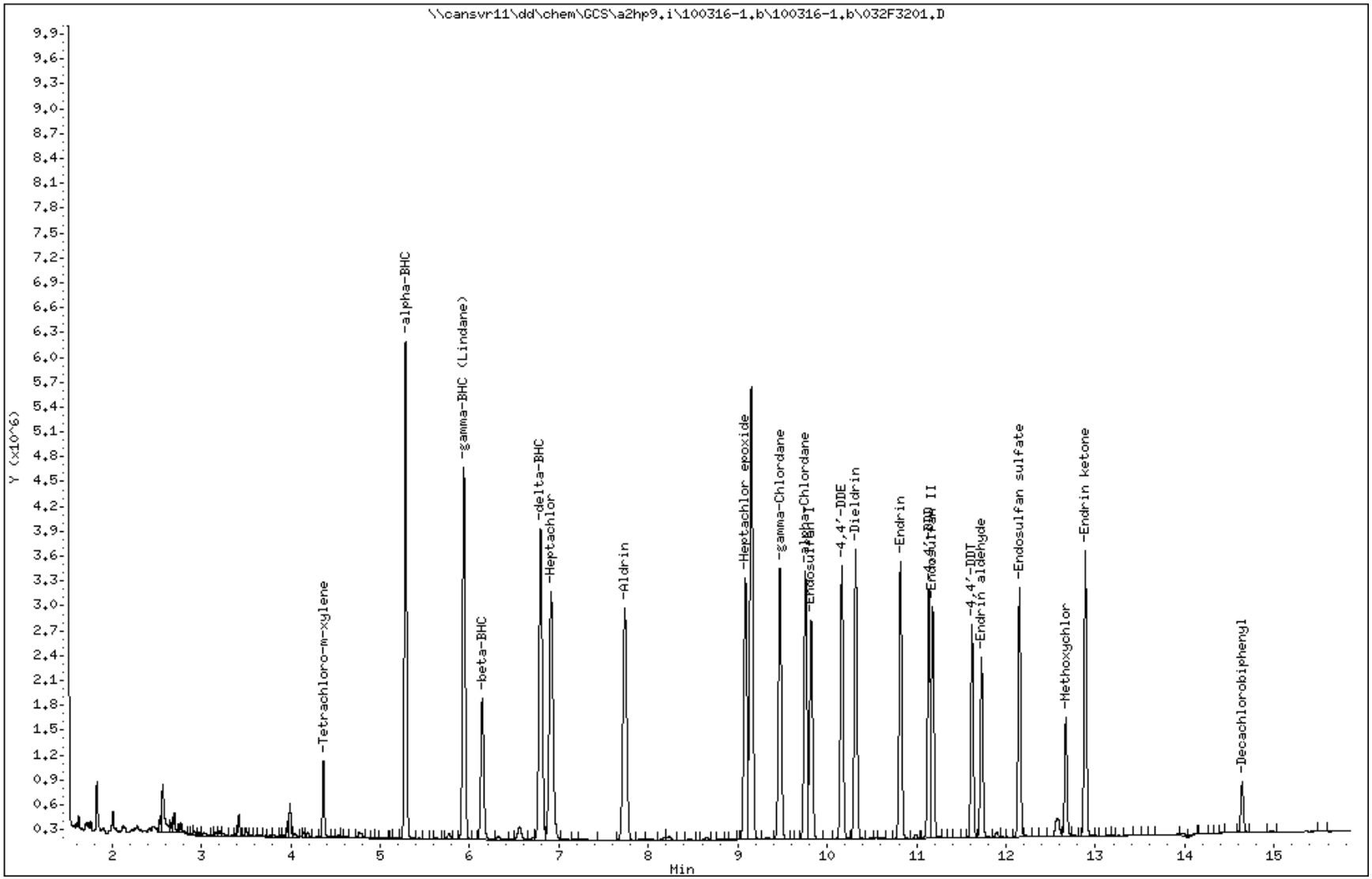
Sample Info: LWET71AC

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 17-MAR-2010 01:12
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/100316-1.b/032F3201.D
Lab Sample ID: LWET71AC
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.366	1337259	0.019	0.190 ug/Kg
4)	alpha-BHC	5.283	10470837	0.097	32.416 ug/Kg
5)	gamma-BHC (Lindane)	5.937	9532877	0.097	32.310 ug/Kg
6)	beta-BHC	6.143	3993169	0.093	30.914 ug/Kg
7)	delta-BHC	6.795	9727339	0.099	33.067 ug/Kg
8)	Heptachlor	6.912	8975275	0.095	31.512 ug/Kg
10)	Aldrin	7.738	8379708	0.093	31.116 ug/Kg
12)	Heptachlor epoxide	9.085	7633457	0.094	31.373 ug/Kg
13)	gamma-Chlordane	9.471	7717758	0.095	31.702 ug/Kg
14)	alpha-Chlordane	9.757	7447628	0.094	31.341 ug/Kg
15)	Endosulfan I	9.821	5991032	0.081	26.861 ug/Kg
16)	4,4'-DDE	10.163	7135262	0.100	33.331 ug/Kg
17)	Dieldrin	10.318	7650630	0.100	33.198 ug/Kg
18)	Endrin	10.819	7076714	0.101	33.580 ug/Kg
21)	4,4'-DDD	11.137	5982415	0.102	33.900 ug/Kg
22)	Endosulfan II	11.179	5697283	0.086	28.720 ug/Kg
24)	4,4'-DDT	11.620	5035127	0.101	33.695 ug/Kg
25)	Endrin aldehyde	11.727	4363749	0.080	26.808 ug/Kg
26)	Endosulfan sulfate	12.149	5861016	0.100	33.405 ug/Kg
27)	Methoxychlor	12.669	2746730	0.104	34.651 ug/Kg
29)	Endrin ketone	12.888	6616209	0.095	31.680 ug/Kg
30)	Decachlorobiphenyl	14.640	1259250	0.020	0.196 ug/Kg

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWET71AA **Matrix.....:** SOLID
MB Lot-Sample #: A0C090000-032

Prep Date.....: 03/09/10 **Final Wgt/Vol..:** 10 mL
Analysis Date..: 03/17/10 **Prep Batch #...:** 0068032
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	4.0	ug/kg	SW846 8081A
alpha-BHC	ND	2.5	ug/kg	SW846 8081A
beta-BHC	ND	3.5	ug/kg	SW846 8081A
delta-BHC	ND	4.0	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	2.5	ug/kg	SW846 8081A
alpha-Chlordane	ND	3.0	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	2.0	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	2.0	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	2.5	ug/kg	SW846 8081A
Endosulfan sulfate	ND	3.0	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	3.0	ug/kg	SW846 8081A
Endrin ketone	ND	2.0	ug/kg	SW846 8081A
Heptachlor	ND	3.5	ug/kg	SW846 8081A
Heptachlor epoxide	ND	2.5	ug/kg	SW846 8081A
Methoxychlor	ND	5.0	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(70 - 125)
Decachlorobiphenyl	92	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\031F3101.D
Lab Smp Id: LWET71AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 17-MAR-2010 00:48
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LWET71AA
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 31 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene			CAS #: 877-09-8				
3.793	3.794	-0.001	1354879	0.01610	0.1610		
2 Hexachlorobenzene			CAS #: 118-74-1				
4.273	4.262	0.011	20023				
3 Diallate			CAS #: 2303-16-4				
4.393	4.369	0.024	67484			0.00- 20.00	100.00
4.555	4.544	0.011	113568			0.00- 20.00	168.29
4 alpha-BHC			CAS #: 319-84-6				
4.491	4.495	-0.004	12181	9e-005	0.03050		
5 gamma-BHC (Lindane)			CAS #: 58-89-9				
4.917	4.919	-0.002	11738	7e-005	0.02370		
6 beta-BHC			CAS #: 319-85-7				
5.055	5.066	-0.011	10025	2e-004	0.08265		

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--------------------------------------------------------------------------------
    7 delta-BHC                                    CAS #: 319-86-8
5.300    5.314   -0.014           49516 3.e-004  0.09958
                   Sum of Peak Concentrations =  0.09958
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
8 Heptachlor					CAS #: 76-44-8		
5.651	5.638	0.013	7032	9e-005	0.02977		
9 Tech Chlordane					CAS #: 57-74-9		
Peaks not detected for Quant. or Qual. signal(s).							
10 Aldrin					CAS #: 309-00-2		
6.152	6.164	-0.012	565387	0.00360	1.201		
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.225	8.214	0.011	6151	0.00012	0.03996		
15 Endosulfan I					CAS #: 959-98-8		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
Peaks not detected for Quant. or Qual. signal(s).							
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							
18 Endrin					CAS #: 72-20-8		
Peaks not detected for Quant. or Qual. signal(s).							
19 Kepone					CAS #: 143-50-0		

Peaks not detected for Quant. or Qual. signal(s).

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20 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

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22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 Toxaphene CAS #: 8001-35-2

Operator disabled compound identification.

---

23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.229	13.233	-0.004	1098773	0.01849	0.1849		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\031F3101.D

Date : 17-MAR-2010 00:48

Client ID: INTRA-LAB BLANK

Instrument: a2hp9.i

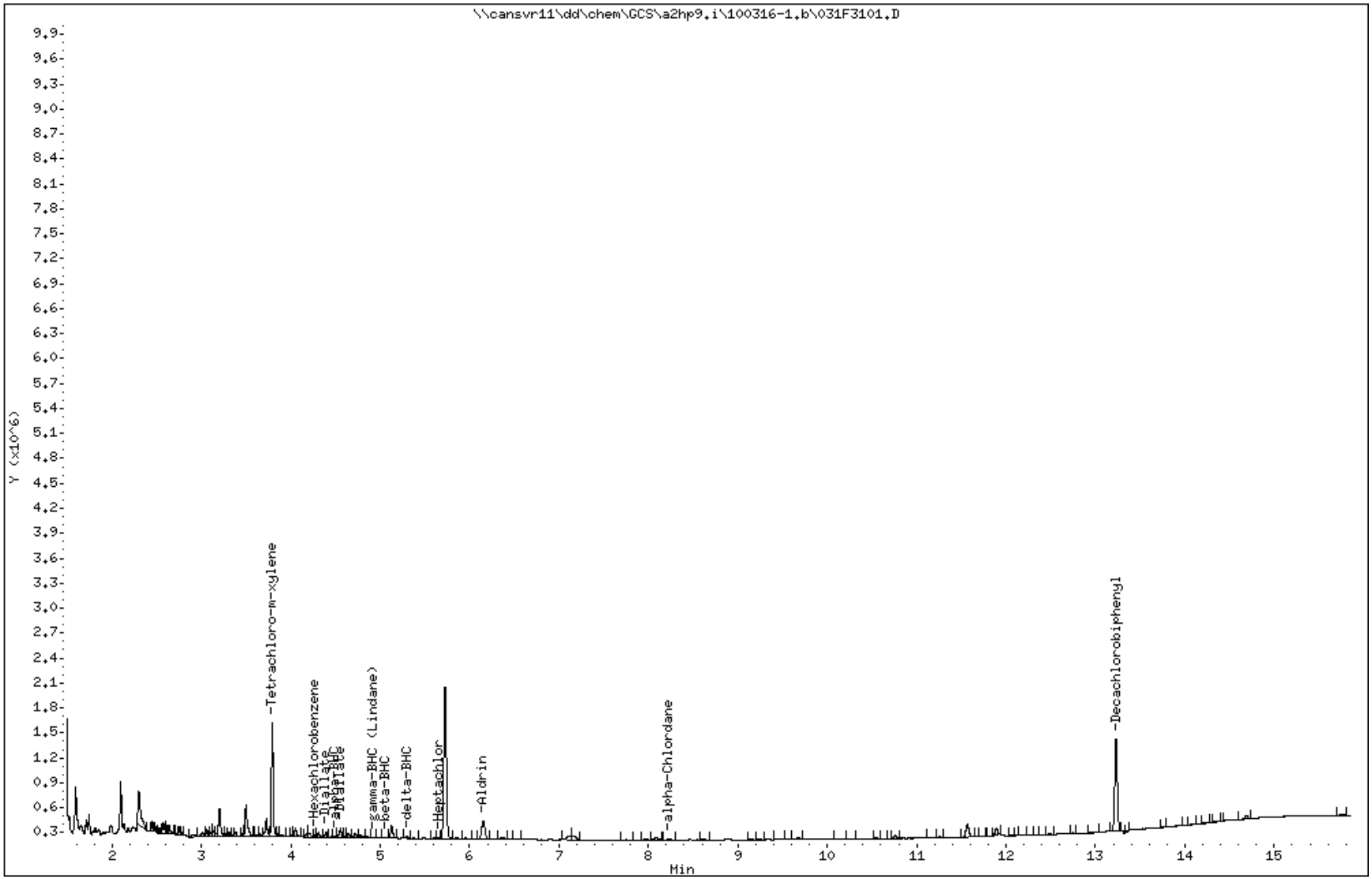
Sample Info: LWET71AA

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

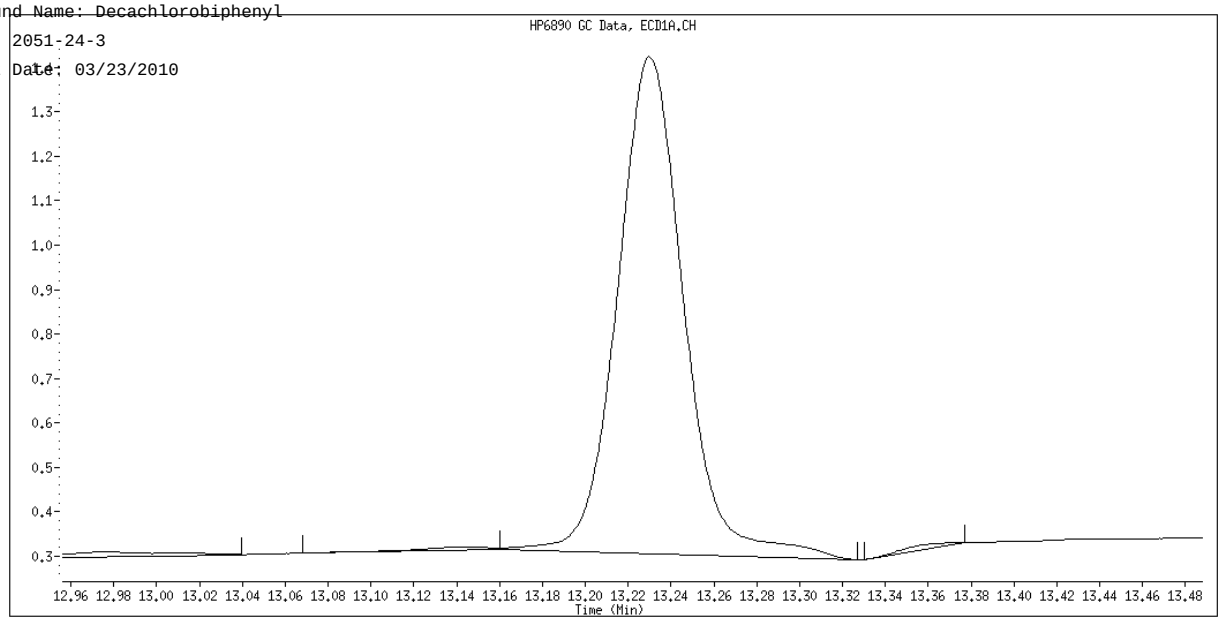


COMPOUNDS and EXP. RT REPORT

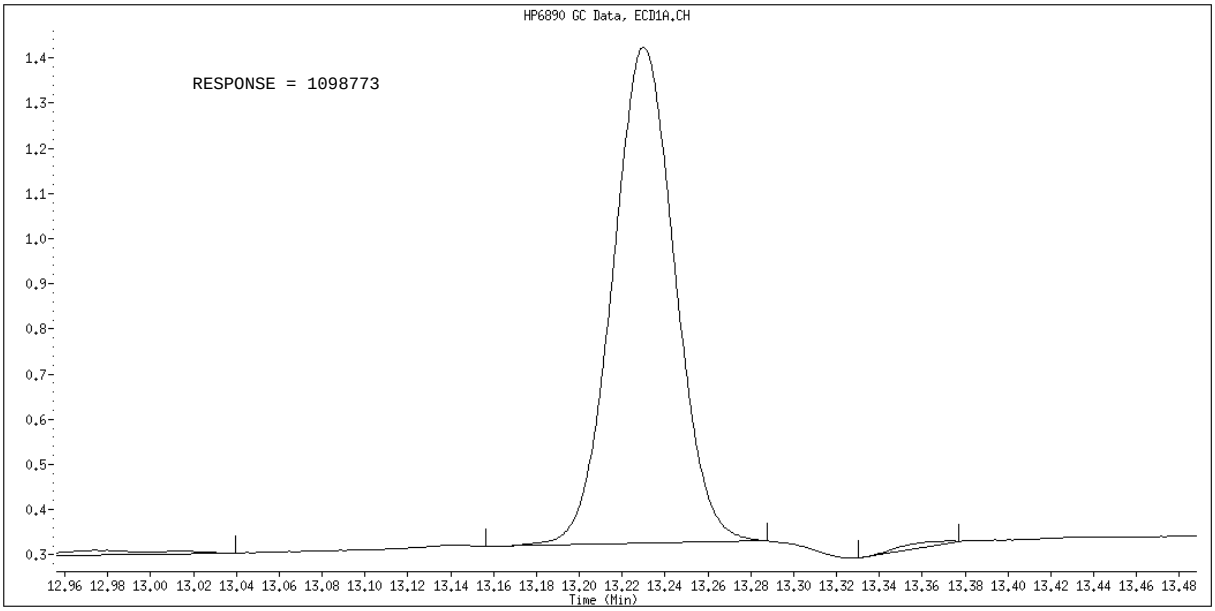
Operator: 093905 Date Acquired: 17-MAR-2010 00:48
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/031F3101.D
Lab Sample ID: LWET71AA
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	3.794	1819829	0.016	0.161 ug/Kg
2)	Hexachlorobenzene	4.274	30486	0.000	0.000 ug/Kg
3)	Diallate	4.394	105956	0.000	0.000 ug/Kg
4)	alpha-BHC	4.491	20637	0.000	0.030 ug/Kg
5)	gamma-BHC (Lindane)	4.918	11738	0.000	0.024 ug/Kg
6)	beta-BHC	5.055	20272	0.000	0.083 ug/Kg
7)	delta-BHC	5.300	49516	0.000	0.100 ug/Kg
9)	Tech Chlordane	NOT DETECTED	Expected RT = 5.371		
8)	Heptachlor	5.651	10284	0.000	0.030 ug/Kg
10)	Aldrin	6.153	565387	0.004	1.201 ug/Kg
11)	Isodrin	NOT DETECTED	Expected RT = 6.872		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 7.602		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 7.902		
14)	alpha-Chlordane	8.225	25097	0.000	0.040 ug/Kg
15)	Endosulfan I	NOT DETECTED	Expected RT = 8.469		
16)	4,4'-DDE	NOT DETECTED	Expected RT = 8.541		
17)	Dieldrin	NOT DETECTED	Expected RT = 8.982		
18)	Endrin	NOT DETECTED	Expected RT = 9.407		
19)	Kepone	NOT DETECTED	Expected RT = 9.500		
20)	4,4'-DDD	NOT DETECTED	Expected RT = 9.722		
22)	Endosulfan II	NOT DETECTED	Expected RT = 9.831		
21)	Chlorobenzilate	NOT DETECTED	Expected RT = 9.844		
24)	Toxaphene	NOT DETECTED	Expected RT = 9.951		
23)	4,4'-DDT	NOT DETECTED	Expected RT = 10.210		
25)	Endrin aldehyde	NOT DETECTED	Expected RT = 10.584		
26)	Mirex	NOT DETECTED	Expected RT = 10.813		
27)	Methoxychlor	NOT DETECTED	Expected RT = 11.108		
28)	Endosulfan sulfate	NOT DETECTED	Expected RT = 11.285		
29)	Endrin ketone	NOT DETECTED	Expected RT = 11.679		
30)	Decachlorobiphenyl	13.230	2223782	0.018	0.185 ug/Kg

Data File Name: 031F3101.D
Inj. Date and Time: 17-MAR-2010 00:48
Instrument ID: a2hp9.i
Client ID: INTRA-LAB BLANK
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/23/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\031F3101.D
Lab Smp Id: LWET71AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 17-MAR-2010 00:48
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LWET71AA
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 31 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.365	4.365	0.000	809302	0.01655	0.1655		
2 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene						CAS #: 118-74-1	
5.129	5.104	0.025	13864				
4 alpha-BHC						CAS #: 319-84-6	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 beta-BHC CAS #: 319-85-7

6.120	6.142	-0.022	3771	2e-004	0.06857		

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

8.793	8.770	0.023	29303				

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

9.826	9.821	0.005	11925	0.00016	0.05346		

---

16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

19 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Mirex CAS #: 2385-85-5

Operator disabled compound identification.

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

```
--------------------------------------------------------------------------------
   29 Endrin ketone                                CAS #: 53494-70-5
12.867  12.888   -0.021           46835  7e-004   0.2242                      (M)
--------------------------------------------------------------------------------
$  30 Decachlorobiphenyl                          CAS #: 2051-24-3
14.638  14.640   -0.002         1215287 0.01895   0.1895
--------------------------------------------------------------------------------
```

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\031F3101.D

Date : 17-MAR-2010 00:48

Client ID: INTRA-LAB BLANK

Instrument: a2hp9.i

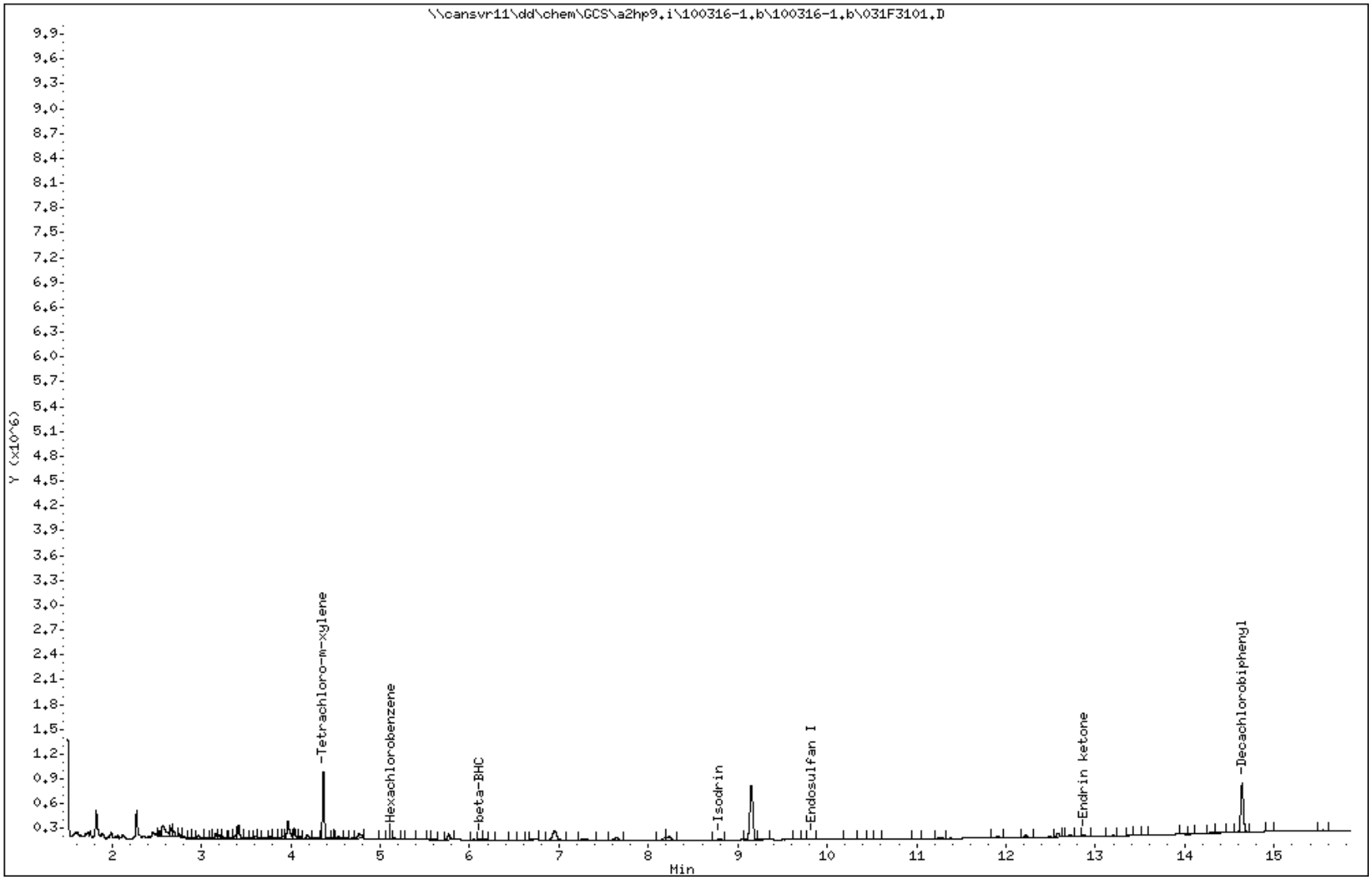
Sample Info: LWET71AA

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

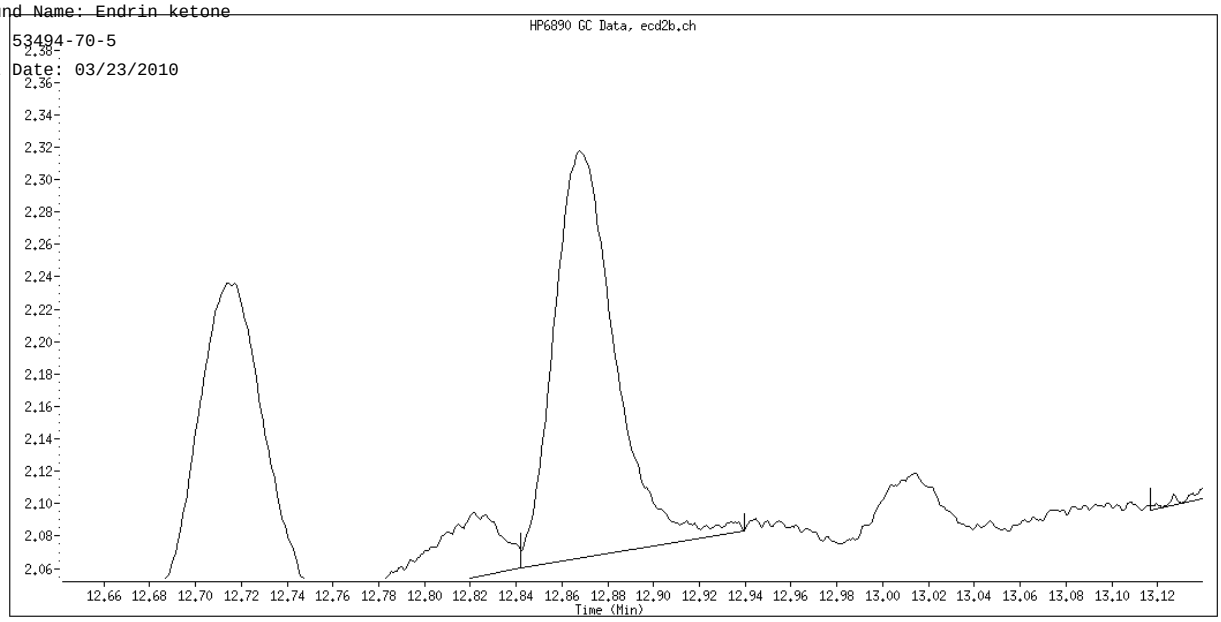


COMPOUNDS and EXP. RT REPORT

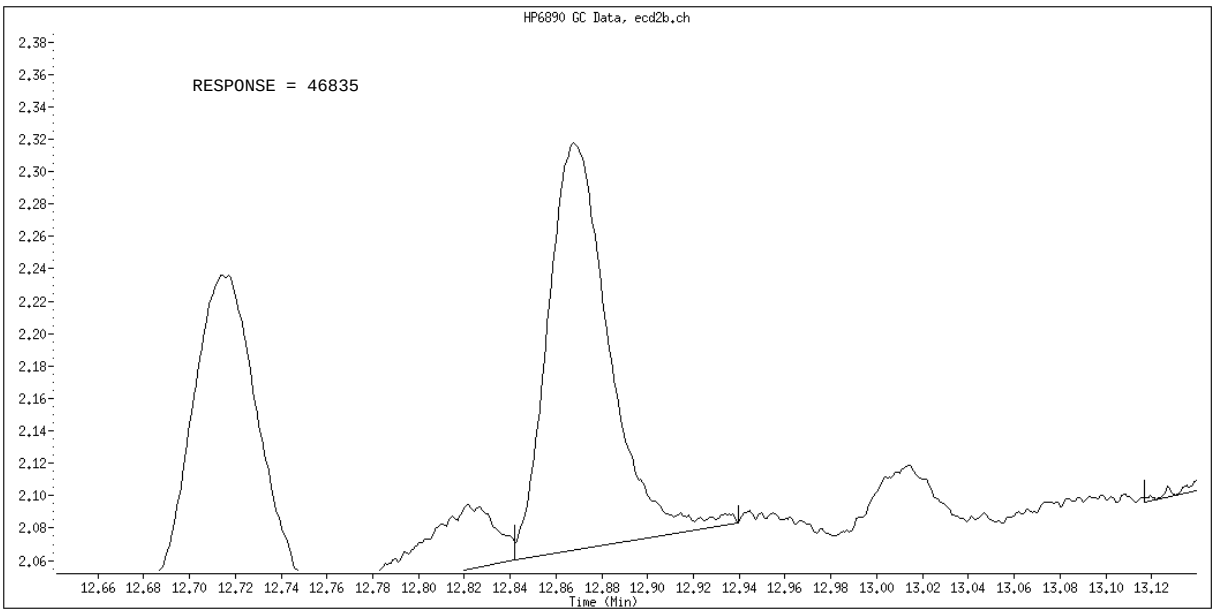
Operator: 093905 Date Acquired: 17-MAR-2010 00:48
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/100316-1.b/031F3101.D
Lab Sample ID: LWET71AA
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.365	1129134	0.017	0.165 ug/Kg
2)	Diallate	NOT DETECTED	Expected RT = 5.042		
3)	Hexachlorobenzene	5.130	13864	0.000	0.000 ug/Kg
4)	alpha-BHC	NOT DETECTED	Expected RT = 5.282		
5)	gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 5.937		
6)	beta-BHC	6.120	8127	0.000	0.069 ug/Kg
9)	Tech Chlordane	NOT DETECTED	Expected RT = 6.391		
7)	delta-BHC	NOT DETECTED	Expected RT = 6.797		
8)	Heptachlor	NOT DETECTED	Expected RT = 6.913		
10)	Aldrin	NOT DETECTED	Expected RT = 7.737		
11)	Isodrin	8.794	29303	0.000	0.000 ug/Kg
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 9.085		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 9.472		
14)	alpha-Chlordane	NOT DETECTED	Expected RT = 9.757		
15)	Endosulfan I	9.826	11925	0.000	0.053 ug/Kg
16)	4,4'-DDE	NOT DETECTED	Expected RT = 10.164		
17)	Dieldrin	NOT DETECTED	Expected RT = 10.320		
18)	Endrin	NOT DETECTED	Expected RT = 10.820		
19)	Chlorobenzilate	NOT DETECTED	Expected RT = 11.042		
20)	Kepone	NOT DETECTED	Expected RT = 11.090		
21)	4,4'-DDD	NOT DETECTED	Expected RT = 11.138		
22)	Endosulfan II	NOT DETECTED	Expected RT = 11.182		
23)	Toxaphene	NOT DETECTED	Expected RT = 11.329		
24)	4,4'-DDT	NOT DETECTED	Expected RT = 11.621		
25)	Endrin aldehyde	NOT DETECTED	Expected RT = 11.727		
26)	Endosulfan sulfate	NOT DETECTED	Expected RT = 12.151		
27)	Methoxychlor	NOT DETECTED	Expected RT = 12.670		
28)	Mirex	NOT DETECTED	Expected RT = 12.864		
29)	Endrin ketone	12.868	46835	0.001	0.224 ug/Kg
30)	Decachlorobiphenyl	14.639	1215287	0.019	0.190 ug/Kg

Data File Name: 031F3101.D
Inj. Date and Time: 17-MAR-2010 00:48
Instrument ID: a2hp9.i
Client ID: INTRA-LAB BLANK
Compound Name: Endrin ketone
CAS #: 53494-70-5
Report Date: 03/23/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte Misidentified by the Data System

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CE-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CF-MSD
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/16/10
Prep Batch #...: 0068032
Dilution Factor: 5 **Initial Wgt/Vol:** 30.04 g **Final Wgt/Vol..:** 10 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
gamma-BHC (Lindane)	84 DIL	(60 - 125)			SW846 8081A
	84 DIL	(60 - 125)	0.17	(0-36)	SW846 8081A
Heptachlor	85 DIL	(50 - 140)			SW846 8081A
	85 DIL	(50 - 140)	0.49	(0-44)	SW846 8081A
Aldrin	83 DIL	(45 - 140)			SW846 8081A
	83 DIL	(45 - 140)	0.43	(0-40)	SW846 8081A
Dieldrin	84 DIL	(65 - 125)			SW846 8081A
	83 DIL	(65 - 125)	1.1	(0-33)	SW846 8081A
Endrin	81 DIL	(60 - 135)			SW846 8081A
	81 DIL	(60 - 135)	0.29	(0-38)	SW846 8081A
4,4'-DDT	74 DIL	(45 - 140)			SW846 8081A
	73 DIL	(45 - 140)	0.53	(0-42)	SW846 8081A
alpha-BHC	83 DIL	(60 - 125)			SW846 8081A
	83 DIL	(60 - 125)	1.0	(0-40)	SW846 8081A
beta-BHC	85 DIL	(60 - 125)			SW846 8081A
	85 DIL	(60 - 125)	0.38	(0-43)	SW846 8081A
delta-BHC	81 DIL	(55 - 130)			SW846 8081A
	81 DIL	(55 - 130)	0.18	(0-34)	SW846 8081A
Heptachlor epoxide	86 DIL	(65 - 130)			SW846 8081A
	85 DIL	(65 - 130)	1.8	(0-43)	SW846 8081A
Endosulfan I	72 DIL	(15 - 135)			SW846 8081A
	73 DIL	(15 - 135)	0.70	(0-41)	SW846 8081A
4,4'-DDE	83 DIL	(70 - 125)			SW846 8081A
	83 DIL	(70 - 125)	0.65	(0-39)	SW846 8081A
Endosulfan II	74 DIL	(35 - 140)			SW846 8081A
	75 DIL	(35 - 140)	1.3	(0-27)	SW846 8081A
4,4'-DDD	83 DIL	(30 - 135)			SW846 8081A
	83 DIL	(30 - 135)	0.25	(0-35)	SW846 8081A
Endosulfan sulfate	84 DIL	(60 - 135)			SW846 8081A
	84 DIL	(60 - 135)	0.21	(0-34)	SW846 8081A
Methoxychlor	84 DIL	(55 - 145)			SW846 8081A
	83 DIL	(55 - 145)	0.03	(0-41)	SW846 8081A
Endrin ketone	81 DIL	(65 - 135)			SW846 8081A
	81 DIL	(65 - 135)	0.81	(0-32)	SW846 8081A
Endrin aldehyde	69 DIL	(35 - 145)			SW846 8081A
	69 DIL	(35 - 145)	0.08	(0-29)	SW846 8081A
alpha-Chlordane	85 DIL	(65 - 120)			SW846 8081A
	84 DIL	(65 - 120)	0.88	(0-65)	SW846 8081A
gamma-Chlordane	84 DIL	(65 - 125)			SW846 8081A
	83 DIL	(65 - 125)	1.9	(0-36)	SW846 8081A

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CE-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CF-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84 DIL	(70 - 125)
	85 DIL	(70 - 125)
Decachlorobiphenyl	92 DIL	(55 - 130)
	94 DIL	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CE-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CF-MSD
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/16/10
Prep Batch #...: 0068032
Dilution Factor: 5 **Initial Wgt/Vol:** 30.04 g **Final Wgt/Vol..:** 10 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
gamma-BHC (Lindane)	ND	41	34	ug/kg	84 DIL		SW846 8081A
	ND	41	34	ug/kg	84 DIL	0.17	SW846 8081A
Heptachlor	ND	41	35	ug/kg	85 DIL		SW846 8081A
	ND	41	35	ug/kg	85 DIL	0.49	SW846 8081A
Aldrin	ND	41	34	ug/kg	83 DIL		SW846 8081A
	ND	41	34	ug/kg	83 DIL	0.43	SW846 8081A
Dieldrin	ND	41	34	ug/kg	84 DIL		SW846 8081A
	ND	41	34	ug/kg	83 DIL	1.1	SW846 8081A
Endrin	ND	41	33	ug/kg	81 DIL		SW846 8081A
	ND	41	33	ug/kg	81 DIL	0.29	SW846 8081A
4,4'-DDT	ND	41	30	ug/kg	74 DIL		SW846 8081A
	ND	41	30	ug/kg	73 DIL	0.53	SW846 8081A
alpha-BHC	ND	41	34	ug/kg	83 DIL		SW846 8081A
	ND	41	34	ug/kg	83 DIL	1.0	SW846 8081A
beta-BHC	ND	41	35	ug/kg	85 DIL		SW846 8081A
	ND	41	35	ug/kg	85 DIL	0.38	SW846 8081A
delta-BHC	ND	41	33	ug/kg	81 DIL		SW846 8081A
	ND	41	33	ug/kg	81 DIL	0.18	SW846 8081A
Heptachlor epoxide	ND	41	35	ug/kg	86 DIL		SW846 8081A
	ND	41	35	ug/kg	85 DIL	1.8	SW846 8081A
Endosulfan I	ND	41	29	ug/kg	72 DIL		SW846 8081A
	ND	41	30	ug/kg	73 DIL	0.70	SW846 8081A
4,4'-DDE	ND	41	34	ug/kg	83 DIL		SW846 8081A
	ND	41	34	ug/kg	83 DIL	0.65	SW846 8081A
Endosulfan II	ND	41	30	ug/kg	74 DIL		SW846 8081A
	ND	41	30	ug/kg	75 DIL	1.3	SW846 8081A
4,4'-DDD	ND	41	34	ug/kg	83 DIL		SW846 8081A
	ND	41	34	ug/kg	83 DIL	0.25	SW846 8081A
Endosulfan sulfate	ND	41	34	ug/kg	84 DIL		SW846 8081A
	ND	41	34	ug/kg	84 DIL	0.21	SW846 8081A
Methoxychlor	ND	41	34	ug/kg	84 DIL		SW846 8081A
	ND	41	34	ug/kg	83 DIL	0.03	SW846 8081A
Endrin ketone	ND	41	33	ug/kg	81 DIL		SW846 8081A
	ND	41	33	ug/kg	81 DIL	0.81	SW846 8081A
Endrin aldehyde	ND	41	28	ug/kg	69 DIL		SW846 8081A
	ND	41	28	ug/kg	69 DIL	0.08	SW846 8081A
alpha-Chlordane	ND	41	35	ug/kg	85 DIL		SW846 8081A
	ND	41	34	ug/kg	84 DIL	0.88	SW846 8081A
gamma-Chlordane	ND	41	34	ug/kg	84 DIL		SW846 8081A
	ND	41	34	ug/kg	83 DIL	1.9	SW846 8081A

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CE-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CF-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84 DIL	(70 - 125)
	85 DIL	(70 - 125)
Decachlorobiphenyl	92 DIL	(55 - 130)
	94 DIL	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\028F2801.D
Lab Smp Id: LWCWJ1CE Client Smp ID: LL6SB-069-5222-SO
Inj Date : 16-MAR-2010 23:25
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LWCWJ1CE,5
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 28 QC Sample: MS
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: 13-pest.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.040	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.794	3.794	0.000	282702	0.00336	0.1679		
4 alpha-BHC						CAS #: 319-84-6	
4.495	4.495	0.000	2220689	0.01668	27.76		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.919	4.919	0.000	2781612	0.01685	28.04		
6 beta-BHC						CAS #: 319-85-7	
5.066	5.066	0.000	688697	0.01703	28.35		
7 delta-BHC						CAS #: 319-86-8	
5.314	5.314	0.000	2695357	0.01626	27.06		
		Sum of Peak Concentrations =			27.06		
8 Heptachlor						CAS #: 76-44-8	
5.638	5.638	0.000	1338057	0.01700	28.29		

```
   10 Aldrin                                      CAS #: 309-00-2
6.165    6.164    0.001         2609394 0.01663    27.68
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.599	7.601	-0.002	803028	0.01728	28.76		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.900	7.901	-0.001	838340	0.01683	28.01		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.214	8.214	0.000	874904	0.01705	28.38		
15 Endosulfan I					CAS #: 959-98-8		
8.468	8.469	-0.001	701978	0.01447	24.08		
16 4,4'-DDE					CAS #: 72-55-9		
8.539	8.540	-0.001	2325041	0.01663	27.68		
17 Dieldrin					CAS #: 60-57-1		
8.980	8.982	-0.002	2401484	0.01674	27.87		
18 Endrin					CAS #: 72-20-8		
9.406	9.407	-0.001	882322	0.01619	26.95		
20 4,4'-DDD					CAS #: 72-54-8		
9.720	9.721	-0.001	1945388	0.01661	27.64		
22 Endosulfan II					CAS #: 33213-65-9		
9.829	9.830	-0.001	774063	0.01475	24.56		
23 4,4'-DDT					CAS #: 50-29-3		
10.210	10.209	0.001	1505371	0.01474	24.53		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.583	10.584	-0.001	621899	0.01389	23.12		
27 Methoxychlor					CAS #: 72-43-5		
11.106	11.108	-0.002	893025	0.01671	27.81		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.284	11.284	0.000	1865056	0.01685	28.04		
29 Endrin ketone					CAS #: 53494-70-5		
11.678	11.679	-0.001	1028651	0.01626	27.06		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.233	13.233	0.000	219780	0.00370	0.1849		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\028F2801.D

Date : 16-MAR-2010 23:25

Client ID: LL6SB-069-5222-SO

Instrument: a2hp9.i

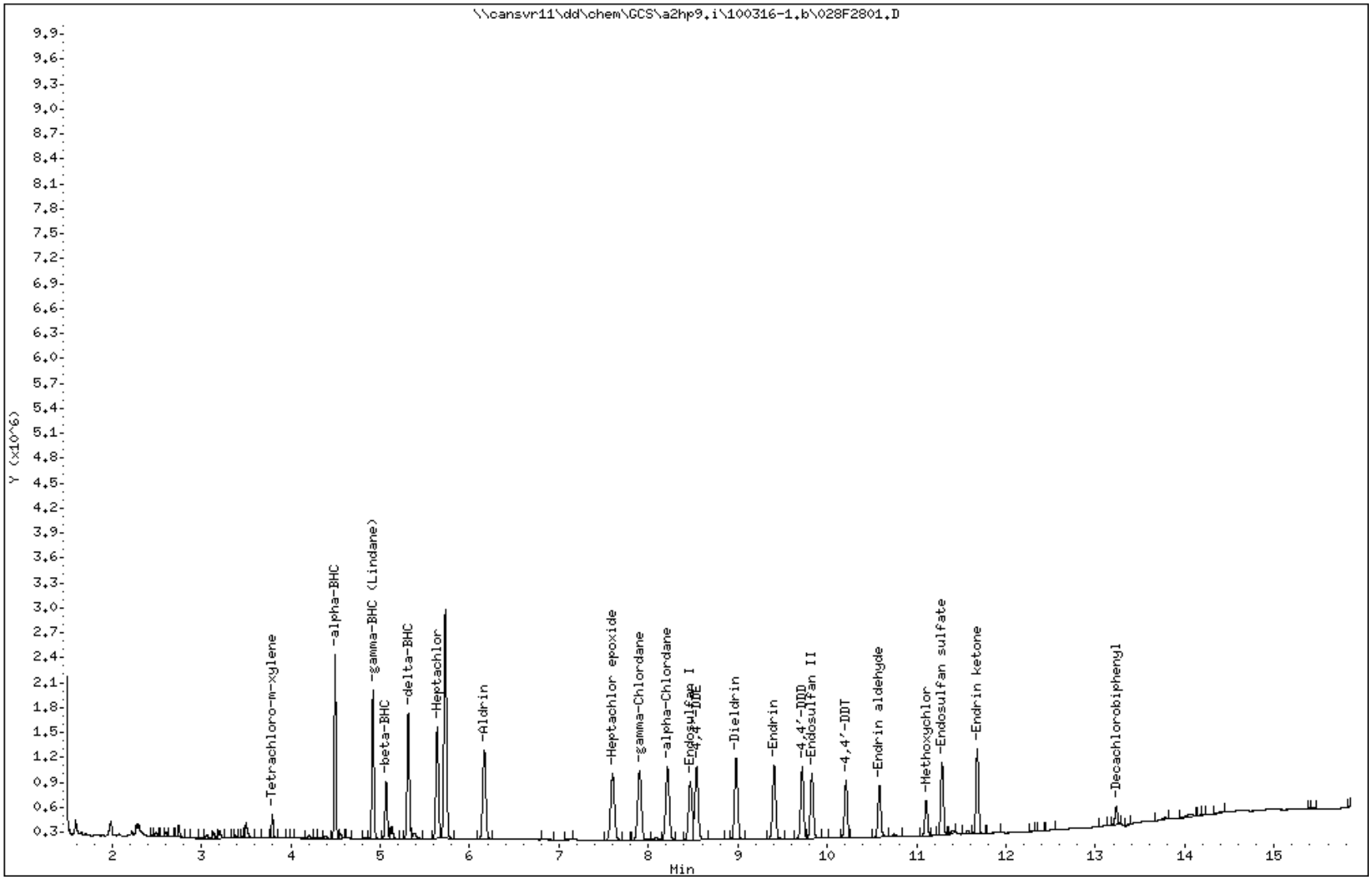
Sample Info: LWCWJ1CE,5

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

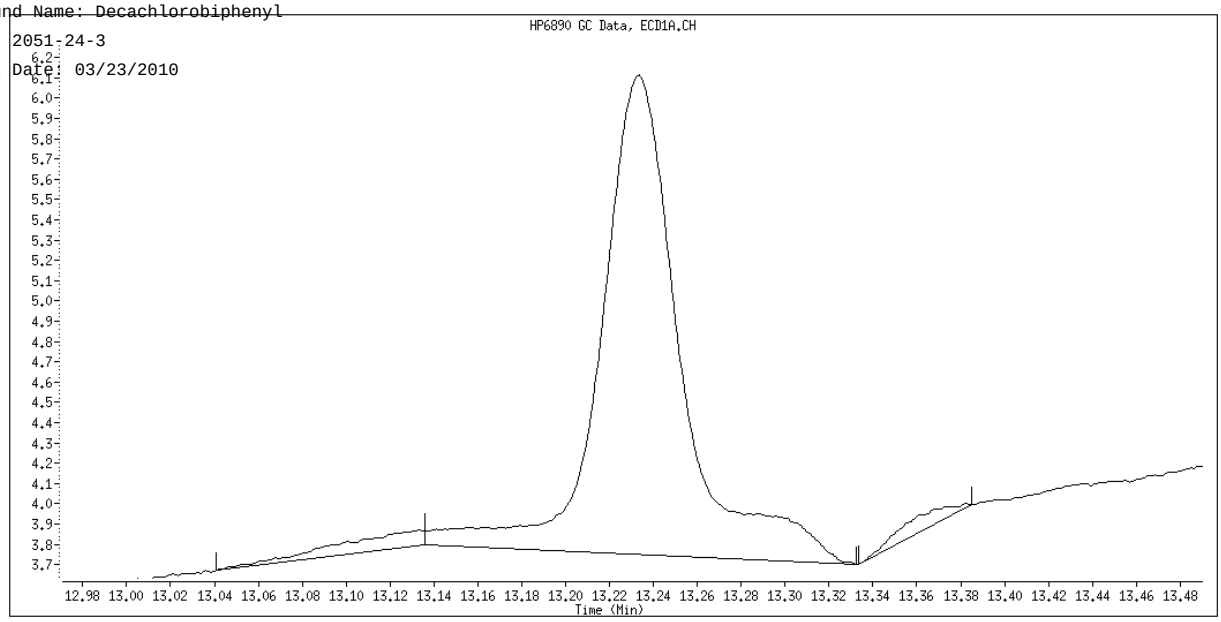


COMPOUNDS and EXP. RT REPORT

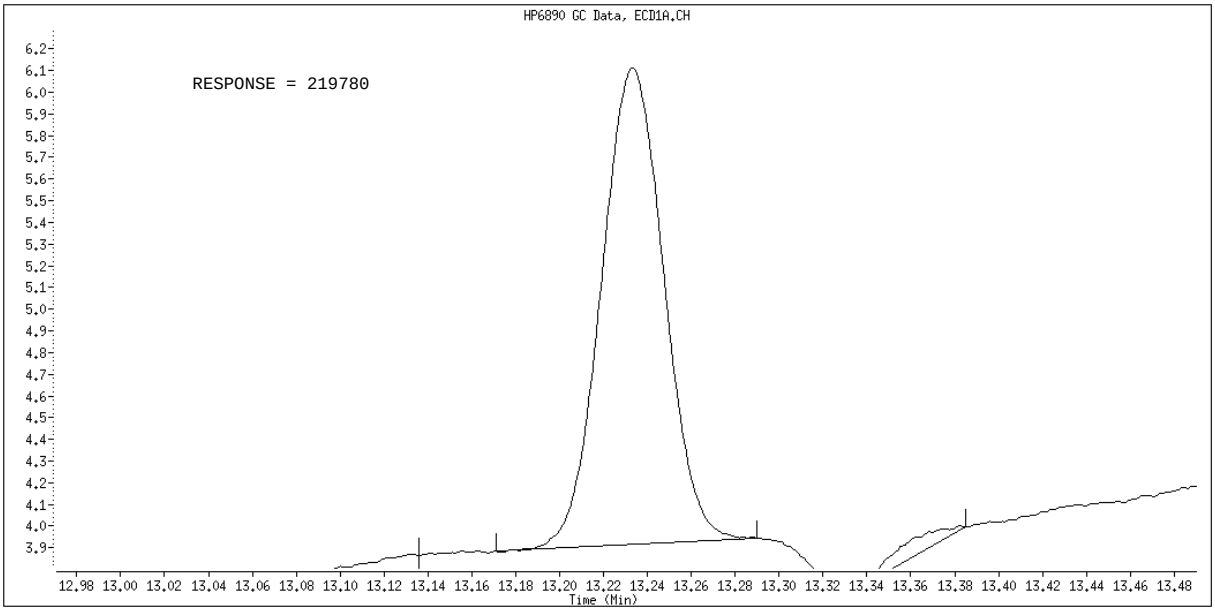
Operator: 093905 Date Acquired: 16-MAR-2010 23:25
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/028F2801.D
Lab Sample ID: LWCWJ1CE
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 5

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.794	369754	0.003	0.168 ug/Kg
4) alpha-BHC	4.496	3022927	0.017	27.765 ug/Kg
5) gamma-BHC (Lindane)	4.919	2781612	0.017	28.045 ug/Kg
6) beta-BHC	5.067	1164304	0.017	28.352 ug/Kg
7) delta-BHC	5.314	2695357	0.016	27.066 ug/Kg
8) Heptachlor	5.638	2685774	0.017	28.288 ug/Kg
10) Aldrin	6.165	2609394	0.017	27.677 ug/Kg
12) Heptachlor epoxide	7.599	2423942	0.017	28.756 ug/Kg
13) gamma-Chlordane	7.901	2464060	0.017	28.013 ug/Kg
14) alpha-Chlordane	8.214	2437586	0.017	28.380 ug/Kg
15) Endosulfan I	8.468	1929899	0.014	24.079 ug/Kg
16) 4,4'-DDE	8.539	2325041	0.017	27.677 ug/Kg
17) Dieldrin	8.981	2401484	0.017	27.868 ug/Kg
18) Endrin	9.407	2186424	0.016	26.953 ug/Kg
20) 4,4'-DDD	9.720	1945388	0.017	27.640 ug/Kg
22) Endosulfan II	9.829	1840377	0.015	24.556 ug/Kg
23) 4,4'-DDT	10.210	1505371	0.015	24.532 ug/Kg
25) Endrin aldehyde	10.583	1435647	0.014	23.120 ug/Kg
27) Methoxychlor	11.107	893025	0.017	27.809 ug/Kg
28) Endosulfan sulfate	11.284	1865056	0.017	28.038 ug/Kg
29) Endrin ketone	11.678	2106737	0.016	27.061 ug/Kg
30) Decachlorobiphenyl	13.233	434948	0.004	0.185 ug/Kg

Data File Name: 028F2801.D
Inj. Date and Time: 16-MAR-2010 23:25
Instrument ID: a2hp9.i
Client ID: LL6SB-069-5222-SO
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/23/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\028F2801.D
Lab Smp Id: LWCWJ1CE Client Smp ID: LL6SB-069-5222-SO
Inj Date : 16-MAR-2010 23:25
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LWCWJ1CE,5
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 28 QC Sample: MS
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: 13-pest.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.040	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.365	4.365	0.000	168324	0.00344	0.1721		
4 alpha-BHC					CAS #: 319-84-6		
5.282	5.282	0.000	1768836	0.01643	27.34		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.935	5.936	-0.001	1643616	0.01671	27.82		
6 beta-BHC					CAS #: 319-85-7		
6.141	6.142	-0.001	323370	0.01764	29.36		
7 delta-BHC					CAS #: 319-86-8		
6.795	6.796	-0.001	1640282	0.01673	27.84		
8 Heptachlor					CAS #: 76-44-8		
6.911	6.913	-0.002	1673195	0.01762	29.33		

```
   10 Aldrin                                      CAS #: 309-00-2
7.736    7.737   -0.001          486863 0.01622    27.00
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.085	9.084	0.001	1368948	0.01688	28.09		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.470	9.471	-0.001	1362327	0.01679	27.94		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.756	9.757	-0.001	1335205	0.01686	28.06		
15 Endosulfan I						CAS #: 959-98-8	
9.820	9.821	-0.001	1076285	0.01448	24.10		
16 4,4'-DDE						CAS #: 72-55-9	
10.164	10.164	0.000	561254	0.01700	28.30		
17 Dieldrin						CAS #: 60-57-1	
10.318	10.319	-0.001	1306031	0.01700	28.30		
18 Endrin						CAS #: 72-20-8	
10.820	10.819	0.001	1204711	0.01715	28.54		
21 4,4'-DDD						CAS #: 72-54-8	
11.137	11.138	-0.001	514471	0.01746	29.06		
22 Endosulfan II						CAS #: 33213-65-9	
11.180	11.181	-0.001	484002	0.01498	24.94		
24 4,4'-DDT						CAS #: 50-29-3	
11.620	11.620	0.000	381146	0.01498	24.94		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.727	11.727	0.000	773903	0.01426	23.74		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.150	12.150	0.000	519978	0.01734	28.87		
27 Methoxychlor						CAS #: 72-43-5	
12.670	12.669	0.001	445042	0.01684	28.03		
29 Endrin ketone						CAS #: 53494-70-5	
12.888	12.888	0.000	1135646	0.01631	27.15		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.641	14.640	0.001	255275	0.00398	0.1991		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\028F2801.D Page 1

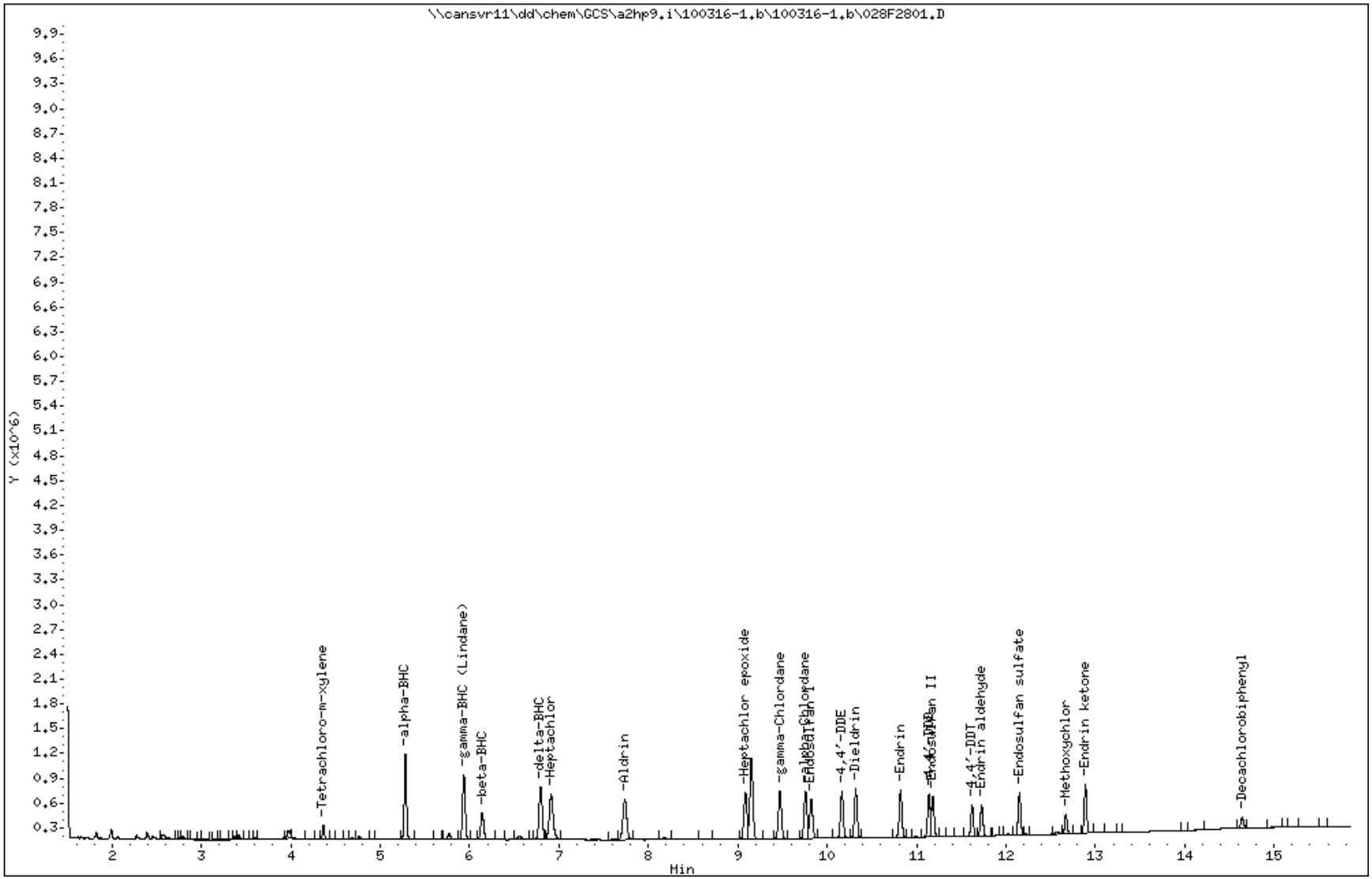
Date : 16-MAR-2010 23:25

Client ID: LL6SB-069-5222-SO Instrument: a2hp9.i

Sample Info: LWCWJ1CE,5

Volume Injected (uL): 1.0 Operator: 093905

Column phase: clp pesticides II Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 23:25
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/100316-1.b/028F2801.D
Lab Sample ID: LWCWJ1CE
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 5

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.365	236143	0.003	0.172 ug/Kg
4)	alpha-BHC	5.283	1768836	0.016	27.344 ug/Kg
5)	gamma-BHC (Lindane)	5.936	1643616	0.017	27.817 ug/Kg
6)	beta-BHC	6.142	792739	0.018	29.360 ug/Kg
7)	delta-BHC	6.795	1640282	0.017	27.842 ug/Kg
8)	Heptachlor	6.912	1673195	0.018	29.334 ug/Kg
10)	Aldrin	7.737	1477627	0.016	26.999 ug/Kg
12)	Heptachlor epoxide	9.085	1368948	0.017	28.094 ug/Kg
13)	gamma-Chlordane	9.471	1362327	0.017	27.942 ug/Kg
14)	alpha-Chlordane	9.757	1335205	0.017	28.057 ug/Kg
15)	Endosulfan I	9.821	1076285	0.014	24.095 ug/Kg
16)	4,4'-DDE	10.164	1242248	0.017	28.297 ug/Kg
17)	Dieldrin	10.318	1306031	0.017	28.298 ug/Kg
18)	Endrin	10.821	1204711	0.017	28.545 ug/Kg
21)	4,4'-DDD	11.138	1032420	0.017	29.060 ug/Kg
22)	Endosulfan II	11.181	995995	0.015	24.938 ug/Kg
24)	4,4'-DDT	11.620	756025	0.015	24.940 ug/Kg
25)	Endrin aldehyde	11.728	773903	0.014	23.740 ug/Kg
26)	Endosulfan sulfate	12.150	1017359	0.017	28.866 ug/Kg
27)	Methoxychlor	12.670	445042	0.017	28.035 ug/Kg
29)	Endrin ketone	12.888	1135646	0.016	27.152 ug/Kg
30)	Decachlorobiphenyl	14.642	255275	0.004	0.199 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\029F2901.D
Lab Smp Id: LWCWJ1CF Client Smp ID: LL6SB-069-5222-SO
Inj Date : 16-MAR-2010 23:48
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LWCWJ1CF,5
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 29 QC Sample: MSD
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: 13-pest.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.070	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.794	3.794	0.000	286634	0.00341	0.1703		
4 alpha-BHC					CAS #: 319-84-6		
4.494	4.495	-0.001	2200135	0.01653	27.48		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.917	4.919	-0.002	2779396	0.01684	27.99		
6 beta-BHC					CAS #: 319-85-7		
5.065	5.066	-0.001	686816	0.01699	28.24		
7 delta-BHC					CAS #: 319-86-8		
5.312	5.314	-0.002	2702065	0.01630	27.11		
Sum of Peak Concentrations =					27.11		
8 Heptachlor					CAS #: 76-44-8		
5.636	5.638	-0.002	1346029	0.01710	28.43		

```
   10 Aldrin                                      CAS #: 309-00-2
6.163    6.164   -0.001         2600574 0.01657    27.56
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.596	7.601	-0.005	789508	0.01699	28.24		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.899	7.901	-0.002	823198	0.01653	27.48		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.212	8.214	-0.002	867965	0.01692	28.13		
15 Endosulfan I					CAS #: 959-98-8		
8.467	8.469	-0.002	707685	0.01458	24.25		
16 4,4'-DDE					CAS #: 72-55-9		
8.538	8.540	-0.002	2312712	0.01654	27.50		
17 Dieldrin					CAS #: 60-57-1		
8.979	8.982	-0.003	2378470	0.01658	27.57		
18 Endrin					CAS #: 72-20-8		
9.405	9.407	-0.002	885818	0.01626	27.03		
20 4,4'-DDD					CAS #: 72-54-8		
9.718	9.721	-0.003	1942539	0.01658	27.57		
22 Endosulfan II					CAS #: 33213-65-9		
9.827	9.830	-0.003	785272	0.01497	24.89		
23 4,4'-DDT					CAS #: 50-29-3		
10.209	10.209	0.000	1499130	0.01468	24.40		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.582	10.584	-0.002	621860	0.01389	23.10		
27 Methoxychlor					CAS #: 72-43-5		
11.104	11.108	-0.004	893541	0.01672	27.80		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.282	11.284	-0.002	1863211	0.01683	27.98		
29 Endrin ketone					CAS #: 53494-70-5		
11.676	11.679	-0.003	1021184	0.01614	26.84		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.234	13.233	0.001	222631	0.00375	0.1873		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\029F2901.D

Page 1

Date : 16-MAR-2010 23:48

Client ID: LL6SB-069-5222-SO

Instrument: a2hp9.i

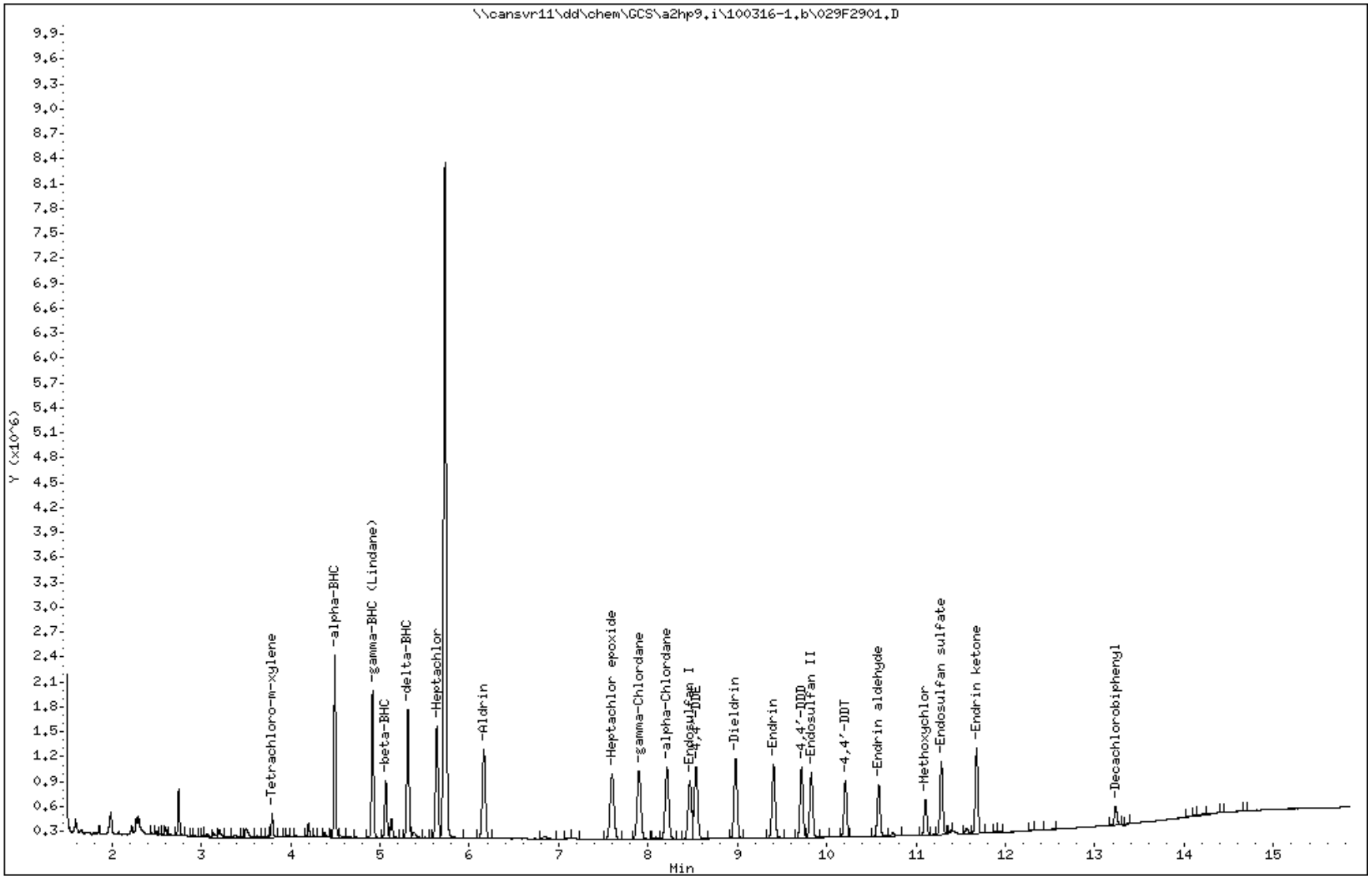
Sample Info: LWCWJ1CF,5

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

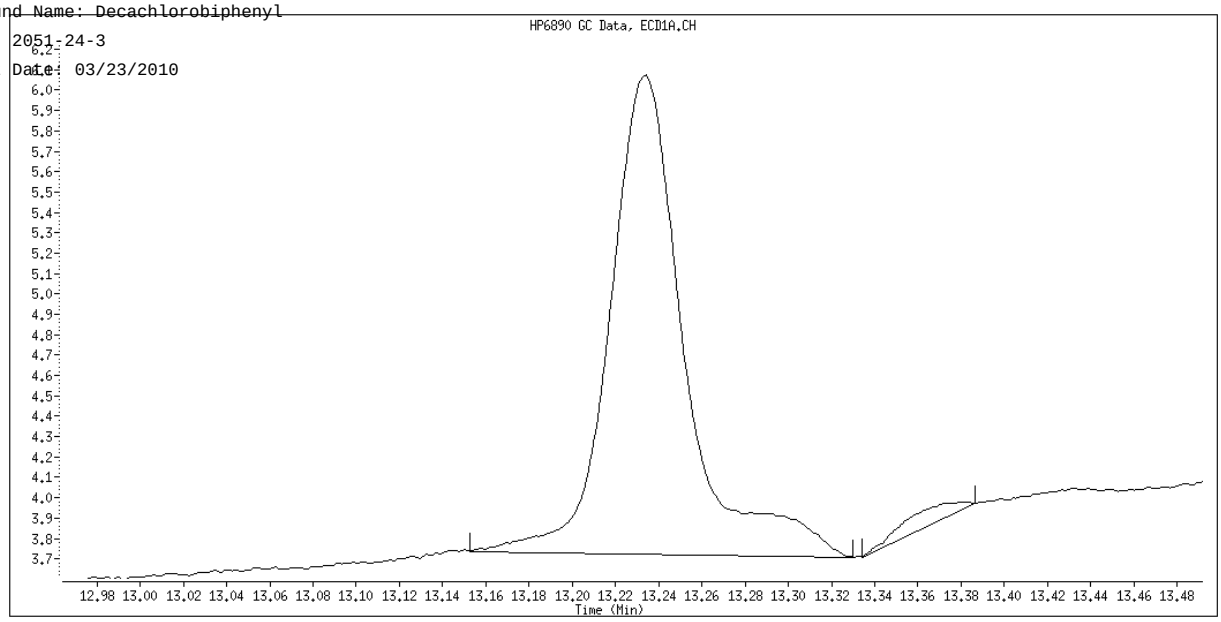


COMPOUNDS and EXP. RT REPORT

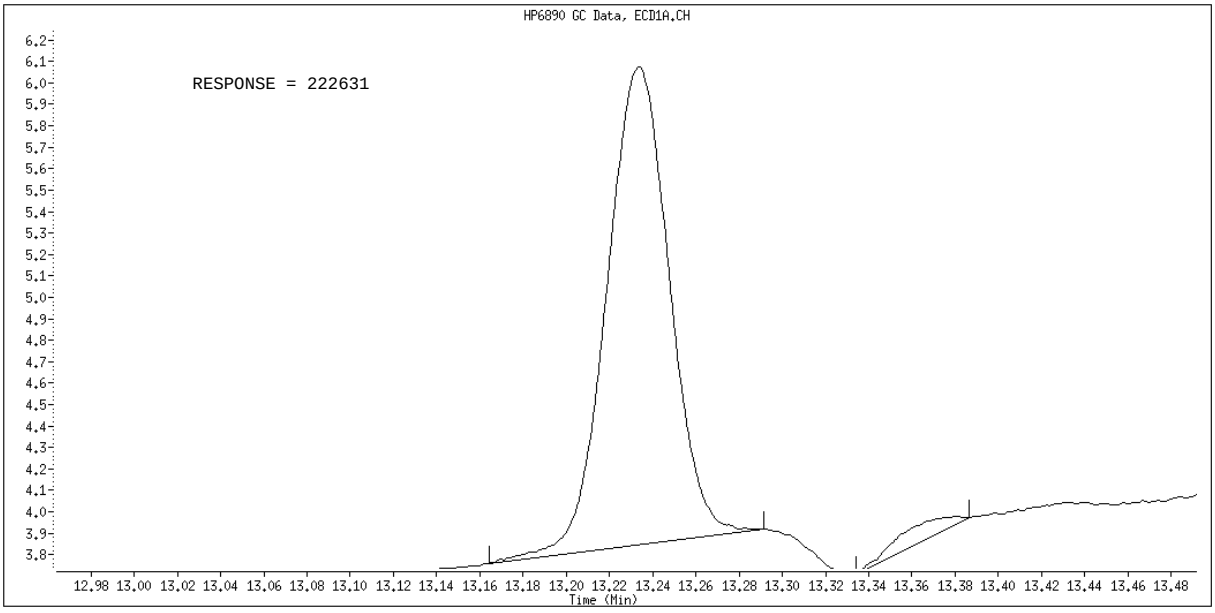
Operator: 093905 Date Acquired: 16-MAR-2010 23:48
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/029F2901.D
Lab Sample ID: LWCWJ1CF
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m
Dilution Factor: 5

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.794	429112	0.003	0.170 ug/Kg
4) alpha-BHC	4.495	3000251	0.017	27.480 ug/Kg
5) gamma-BHC (Lindane)	4.917	2779396	0.017	27.994 ug/Kg
6) beta-BHC	5.066	1161850	0.017	28.246 ug/Kg
7) delta-BHC	5.312	2702065	0.016	27.106 ug/Kg
8) Heptachlor	5.637	2728929	0.017	28.428 ug/Kg
10) Aldrin	6.163	2600574	0.017	27.556 ug/Kg
12) Heptachlor epoxide	7.597	2414686	0.017	28.244 ug/Kg
13) gamma-Chlordane	7.899	2437745	0.017	27.480 ug/Kg
14) alpha-Chlordane	8.212	2430605	0.017	28.126 ug/Kg
15) Endosulfan I	8.467	1916124	0.015	24.251 ug/Kg
16) 4,4'-DDE	8.538	2312712	0.017	27.503 ug/Kg
17) Dieldrin	8.979	2378470	0.017	27.573 ug/Kg
18) Endrin	9.406	2200322	0.016	27.033 ug/Kg
20) 4,4'-DDD	9.718	1942539	0.017	27.572 ug/Kg
22) Endosulfan II	9.827	1837609	0.015	24.887 ug/Kg
23) 4,4'-DDT	10.209	1499130	0.015	24.405 ug/Kg
25) Endrin aldehyde	10.582	1431678	0.014	23.096 ug/Kg
27) Methoxychlor	11.105	893541	0.017	27.798 ug/Kg
28) Endosulfan sulfate	11.282	1863211	0.017	27.982 ug/Kg
29) Endrin ketone	11.677	2099857	0.016	26.838 ug/Kg
30) Decachlorobiphenyl	13.234	448361	0.004	0.187 ug/Kg

Data File Name: 029F2901.D
Inj. Date and Time: 16-MAR-2010 23:48
Instrument ID: a2hp9.i
Client ID: LL6SB-069-5222-SO
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/23/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\029F2901.D
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Inj Date : 16-MAR-2010 23:48
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LWCWJ1CF,5
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Meth Date : 17-Mar-2010 09:48 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 29 QC Sample: MSD
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: 13-pest.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.070	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.365	4.365	0.000	162378	0.00332	0.1660			
4 alpha-BHC						CAS #: 319-84-6		
5.282	5.282	0.000	1730642	0.01607	26.73			
5 gamma-BHC (Lindane)						CAS #: 58-89-9		
5.935	5.936	-0.001	1616761	0.01644	27.33			(M)
6 beta-BHC						CAS #: 319-85-7		
6.141	6.142	-0.001	333266	0.01818	30.23			
7 delta-BHC						CAS #: 319-86-8		
6.794	6.796	-0.002	1617963	0.01650	27.44			
8 Heptachlor						CAS #: 76-44-8		
6.912	6.913	-0.001	1655516	0.01744	28.99			

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   10 Aldrin                                      CAS #: 309-00-2
7.735    7.737   -0.002          476285 0.01587    26.39
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.084	9.084	0.000	1322183	0.01630	27.11		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.470	9.471	-0.001	1353051	0.01667	27.72		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.757	9.757	0.000	1324007	0.01672	27.79		
15 Endosulfan I						CAS #: 959-98-8	
9.820	9.821	-0.001	1074461	0.01445	24.03		
16 4,4'-DDE						CAS #: 72-55-9	
10.163	10.164	-0.001	557788	0.01690	28.09		
17 Dieldrin						CAS #: 60-57-1	
10.318	10.319	-0.001	1293753	0.01684	28.00		
18 Endrin						CAS #: 72-20-8	
10.819	10.819	0.000	1190671	0.01695	28.18		
21 4,4'-DDD						CAS #: 72-54-8	
11.136	11.138	-0.002	512163	0.01738	28.90		
22 Endosulfan II						CAS #: 33213-65-9	
11.179	11.181	-0.002	481919	0.01492	24.80		
24 4,4'-DDT						CAS #: 50-29-3	
11.619	11.620	-0.001	384101	0.01510	25.11		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.726	11.727	-0.001	759867	0.01400	23.29		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.150	12.150	0.000	516954	0.01724	28.67		
27 Methoxychlor						CAS #: 72-43-5	
12.669	12.669	0.000	442748	0.01676	27.86		
29 Endrin ketone						CAS #: 53494-70-5	
12.888	12.888	0.000	1144515	0.01644	27.34		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.640	14.640	0.000	249380	0.00389	0.1945		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\100316-1.b\029F2901.D

Page 1

Date : 16-MAR-2010 23:48

Client ID: LL6SB-069-5222-SO

Instrument: a2hp9.i

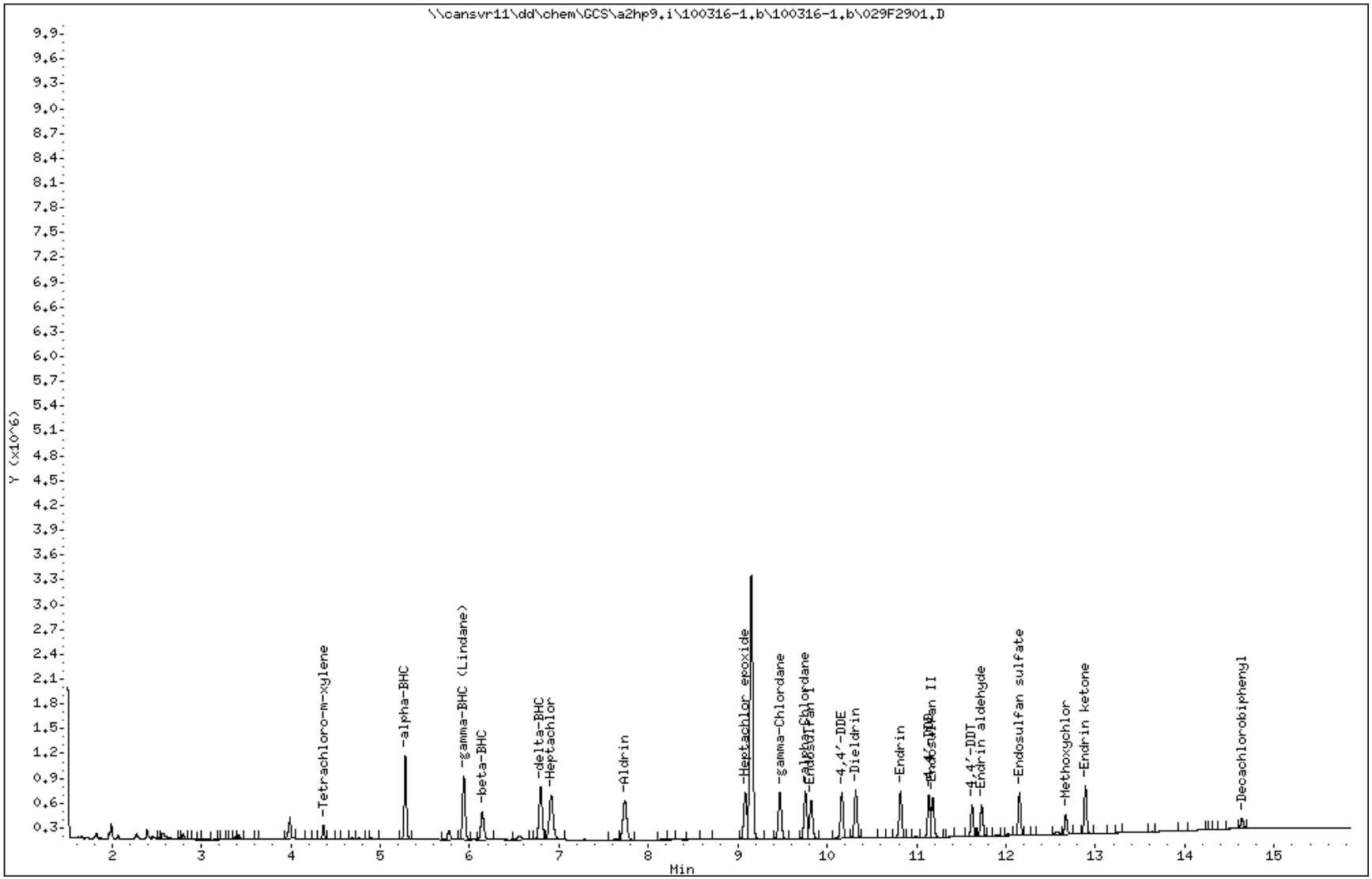
Sample Info: LWCWJ1CF,5

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

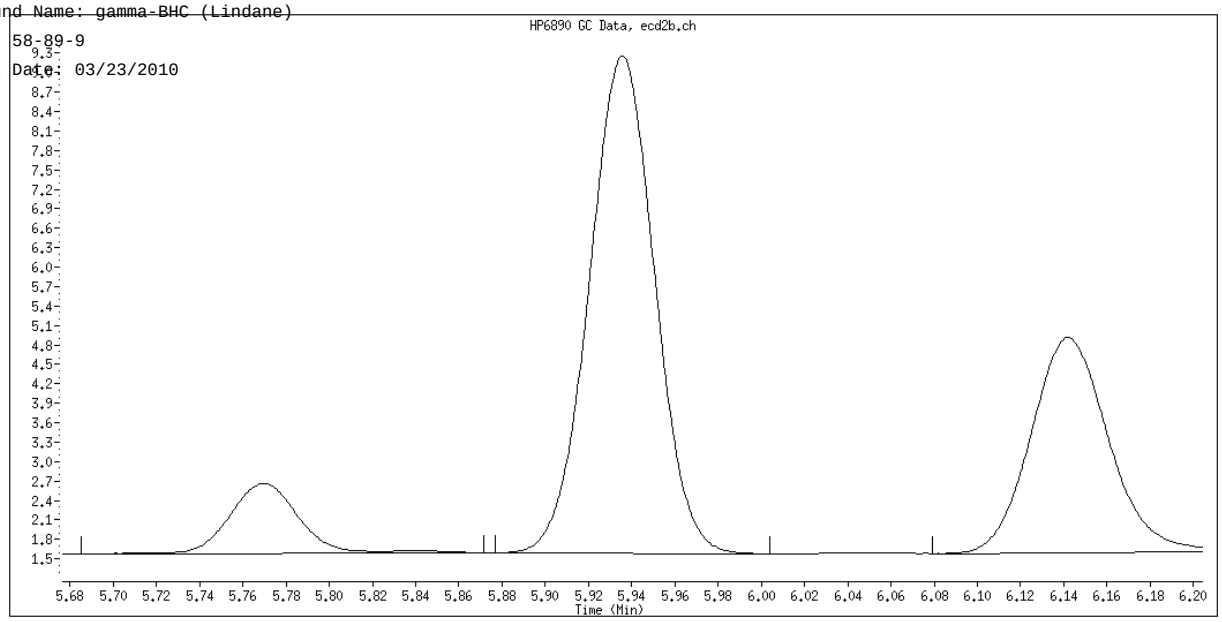


COMPOUNDS and EXP. RT REPORT

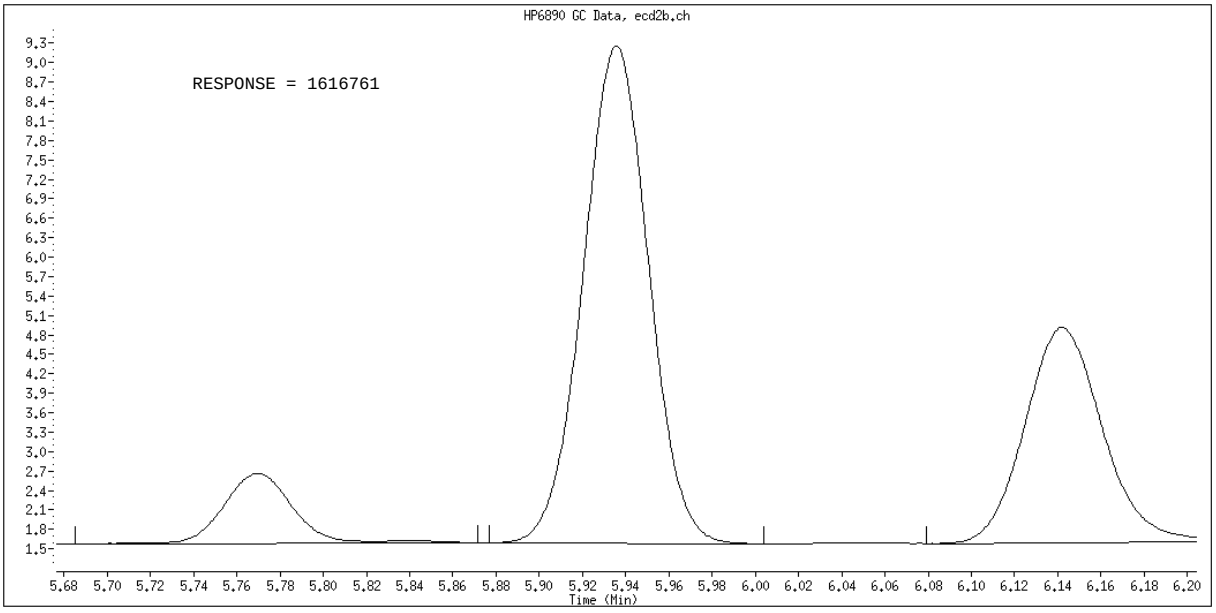
Operator: 093905 Date Acquired: 16-MAR-2010 23:48
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100316-1.b/100316-1.b/029F2901.D
Lab Sample ID: LWCWJ1CF
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100316-1.b\PEST9.m\PEST9r.m
Dilution Factor: 5

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.366	222800	0.003	0.166 ug/Kg
4) alpha-BHC	5.282	1730642	0.016	26.727 ug/Kg
5) gamma-BHC (Lindane)	5.936	1616761	0.016	27.335 ug/Kg
6) beta-BHC	6.142	836383	0.018	30.228 ug/Kg
7) delta-BHC	6.795	1617963	0.017	27.436 ug/Kg
8) Heptachlor	6.912	1655516	0.017	28.995 ug/Kg
10) Aldrin	7.736	1456047	0.016	26.386 ug/Kg
12) Heptachlor epoxide	9.084	1322183	0.016	27.108 ug/Kg
13) gamma-Chlordane	9.471	1353051	0.017	27.724 ug/Kg
14) alpha-Chlordane	9.757	1324007	0.017	27.794 ug/Kg
15) Endosulfan I	9.821	1074461	0.014	24.030 ug/Kg
16) 4,4'-DDE	10.163	1237580	0.017	28.094 ug/Kg
17) Dieldrin	10.318	1293753	0.017	28.004 ug/Kg
18) Endrin	10.819	1190671	0.017	28.184 ug/Kg
21) 4,4'-DDD	11.137	1021209	0.017	28.901 ug/Kg
22) Endosulfan II	11.180	1012370	0.015	24.806 ug/Kg
24) 4,4'-DDT	11.620	759484	0.015	25.108 ug/Kg
25) Endrin aldehyde	11.727	759867	0.014	23.286 ug/Kg
26) Endosulfan sulfate	12.151	1015404	0.017	28.670 ug/Kg
27) Methoxychlor	12.670	442748	0.017	27.862 ug/Kg
29) Endrin ketone	12.888	1144515	0.016	27.337 ug/Kg
30) Decachlorobiphenyl	14.641	249380	0.004	0.194 ug/Kg

Data File Name: 029F2901.D
Inj. Date and Time: 16-MAR-2010 23:48
Instrument ID: a2hp9.i
Client ID: LL6SB-069-5222-SO
Compound Name: gamma-BHC (Lindane)
CAS #: 58-89-9
Report Date: 03/23/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

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MISCELLANEOUS DATA

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp9.i

Standards Codes:	Routine Maintenance Performed:	Date: 15-MAR-2010 08:42
	Cut & Cleaned: ( )	QC Batch: 100315IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	PEM	PEM E006	2	1	093905		
004F0401.D	CALIB_1	AB1 G250	4	1	093905		
005F0501.D	CALIB_2	AB2 G251	5	1	093905		
006F0601.D	CALIB_3	AB3 G252	6	1	093905		
007F0701.D	CALIB_4	AB4 G253	7	1	093905		
008F0801.D	CALIB_5	AB5 G254	8	1	093905		
009F0901.D	CALIB_6	AB6 G255	9	1	093905		
012F1201.D	CCALIB_3	ICV	12	1	093905		
013F1301.D	CALIB_1	TOX1 G268	13	1	093905		
014F1401.D	CALIB_2	TOX2 G268	14	1	093905		
015F1501.D	CALIB_3	TOX3 G268	15	1	093905		
016F1601.D	CALIB_4	TOX4 G268	16	1	093905		
017F1701.D	CALIB_5	TOX5 G268	17	1	093905		

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp9.i

Standards Codes:	Routine Maintenance Performed:	Date: 16-MAR-2010 19:31
	Cut & Cleaned: ( )	QC Batch: 100316-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
018F1801.D	PEM	PEM R006	18	1	093905		
019F1901.D	CCALIB_3	TOX3 G268	19	1	093905		
020F2001.D	CCALIB_3	AB3 G252	20	1	093905		
021F2101.D	MRL	MRL	21	1	093905		
027F2701.D	LL6SB-069-5222-SO	LWCWJ1AE	27	5	093905		
028F2801.D	LL6SB-069-5222-SO	LWCWJ1CE	28	5	093905		
029F2901.D	LL6SB-069-5222-SO	LWCWJ1CF	29	5	093905		
031F3101.D	lwet7blk	LWET71AA	31	1	093905		
032F3201.D	lwet7chk	LWET71AC	32	1	093905		
033F3301.D	CCALIB_3	TOX3 G268	33	1	093905		
034F3401.D	CCALIB_3	AB3 G252	34	1	093905		
035F3501.D	MRL	MRL	35	1	093905		
043F4301.D	PEM	PEM E006	43	1	093905		

Witnessed By: Date: Page No. _____

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/31/2010
Time: 12:19:47

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
			_	_	computer batch: correct & Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 402608 Eric Mills

Concentrationist: 000123 Leslie Howell

Reviewer/Date: HOWELLL / 3/10/10

QC BATCH: 0068032

PREP DATE: 3/09/10
COMP DATE: 3/10/10

Pesticides (8081A)
SOXHLET (NONE,Na2SO4)
SW846 3540C

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-AE**	D	11	QJ	SOLID	30.14g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-CE S**	D	11	QJ	SOLID	30.04g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #462 1ML 2/.2 #4621
COMMENTS:															
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-CF D**	D	11	QJ	SOLID	30.07g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #462 1ML 2/.2 #4621
COMMENTS:															
3/11/10	0/0/0	A0C090000-032 **LWET7-1-AA B**		11	QJ	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/11/10	0/0/0	A0C090000-032 **LWET7-1-AC C**		11	QJ	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #4620 1ML 2/.2 #4621
COMMENTS:															

933

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0068032

PREP DATE: 3/09/10
COMP DATE: 3/10/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID

S/S BY EM
DCM/ACE#J03E07 HEXANE#H46E60 NA2SO4#H35594
ASSOC. SAMPLE/BLANK W/#0068033 BALANCE#B025

NUMBER OF WORK ORDERS IN BATCH: 5

934

Lot/SDG Number: **A0C050520**

Sample Control Chain of Custody - TAL North Canton
GC Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0C050520-002	LWCWJ1AE	Pesticides (8081A)	03/09/10	Eric Mills	03/10/10	Leslie Howell	03/16/10	Carolyn Van Doren

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POLYCHLORINATED BIPHENYLS DATA

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QC SUMMARY DATA

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C050520

Extraction: XXA63QHWA

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	LL6SB-069-5222-SO	74	88	00
02	METHOD BLK. LWET81AA	83	88	00
03	LCS LWET81AC	89	101	00
04	LL6SB-069-5222-SO D	79	85	00
05	LL6SB-069-5222-SO S	74	85	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(10-196)
SRG02	= Decachlorobiphenyl	(10-199)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C090000 WO #: LWET81AC
BATCH: 0068033

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	330	260	79	40- 140	
Aroclor 1260	330	300	89	60- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LL6SB-069-5222-SO

Lot #: A0C050520 WO #: LWCWJ1CG
BATCH: 0068033

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aroclor 1016	410	ND	280	69	40- 140	
Aroclor 1260	410	ND	300	74	60- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: LL6SB-069-5222-SO

Lot #: A0C050520 WO #: LWCWJ1CH
BATCH: 0068033

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aroclor 1016	410	280	69	0.30	39	40- 140	
Aroclor 1260	410	310	76	1.5	33	60- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LWET81AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: 012F1201.

Lot Number: A0C050520

Matrix: SOLID

Extraction Method:

Date Extracted: 03/09/10

Date Analyzed(1): 03/11/10

Date Analyzed(2): N/A

Time Analyzed(1): 15:23

Time Analyzed(2): N/A

Instrument ID(1): P13

Instrument ID(2): N/A

GC Column(1): PEST CLP1 ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	LL6SB-069-5222-SO	LWCWJ1AF	03/11/10	N/A
02	LL6SB-069-5222-SO	LWCWJ1CG S	03/11/10	N/A
03	LL6SB-069-5222-SO	LWCWJ1CH D	03/11/10	N/A
04	CHECK SAMPLE	LWET81AC C	03/11/10	N/A
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

GC Semivolatiles

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ1AF **Matrix.....:** SO
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0068033
Dilution Factor: 1 **Initial Wgt/Vol:** 30.14 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 18 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	26
Aroclor 1221	ND	40	ug/kg	20
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	21
Aroclor 1254	ND	40	ug/kg	21
Aroclor 1260	ND	40	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	74	(40 - 140)
Decachlorobiphenyl	88	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\008F0801.D
Lab Smp Id: LWCWJ1AF Client Smp ID: LL6SB-069-5222-SO
Inj Date : 11-MAR-2010 14:24
Operator : Inst ID: a2hp13.i
Smp Info : LWCWJ1AF
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Meth Date : 11-Mar-2010 21:43 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.140	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.164	1.161	0.003	1838231	0.01480	4.909		
2 AROCLOR-1221					CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).							
3 AROCLOR-1016					CAS #: 12674-11-2		
Compound Not Detected							
4 AROCLOR-1232					CAS #: 11141-16-5		
Compound Not Detected							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

---

6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Compound Not Detected

---

8 AROCLOR-1260 CAS #: 11096-82-5

Compound Not Detected

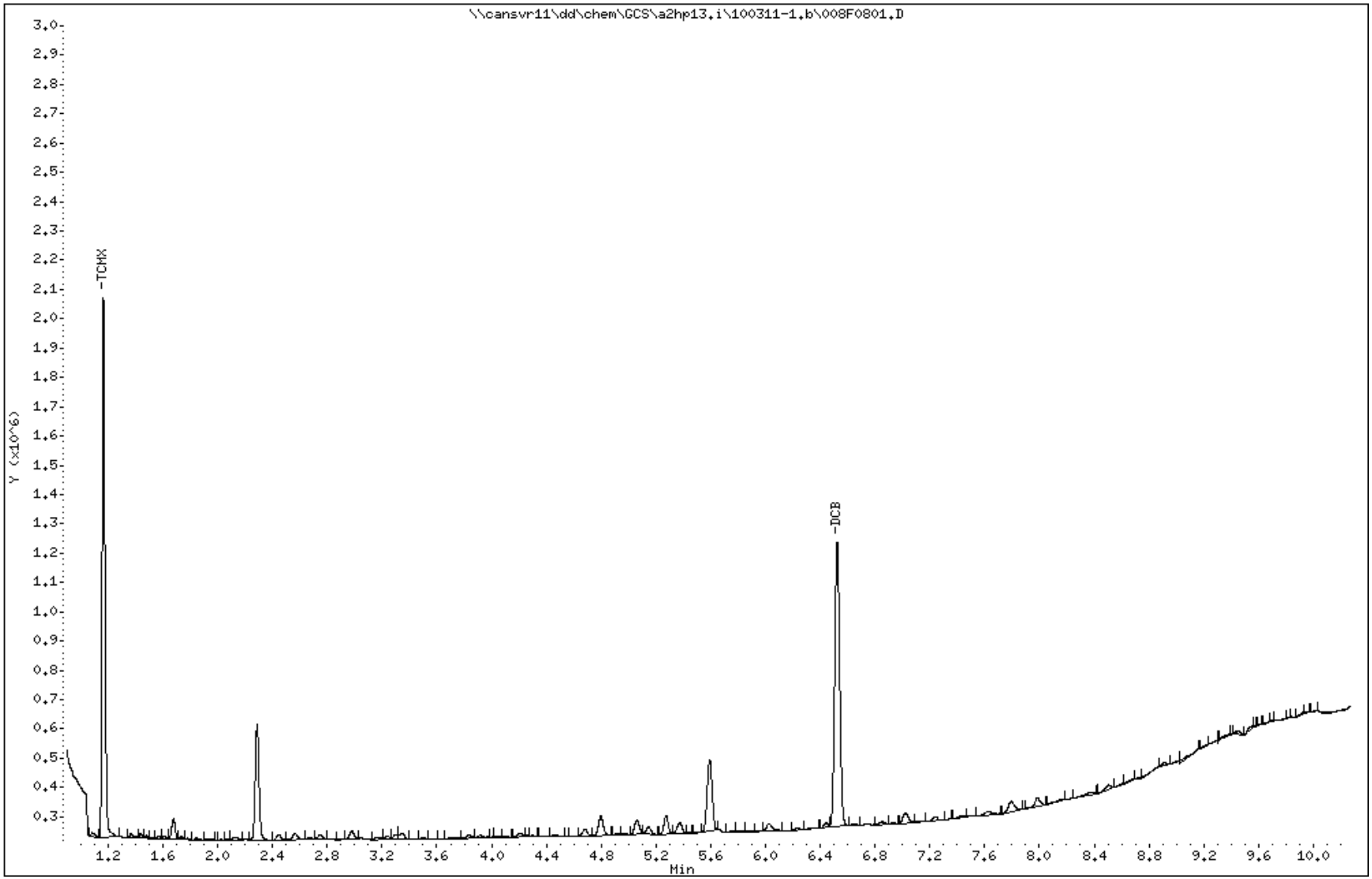
M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

$ 9 DCB CAS #: 2051-24-3

6.523	6.520	0.003	971724	0.01752		5.812	

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\008F0801.D
Date : 11-MAR-2010 14:24
Client ID: LL6SB-069-5222-SO
Instrument: a2hp13.i
Sample Info: LWCWJ1AF
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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STANDARD DATA

Report Date: 09-Feb-2010 07:53

Calibration History

Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Start Cal Date: 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
09-FEB-2010 01:06	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
08-FEB-2010 23:37	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
08-FEB-2010 22:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
08-FEB-2010 20:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
08-FEB-2010 19:06	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
08-FEB-2010 17:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
08-FEB-2010 16:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Cal Level: 2 , Cal Amount: 0.10000		
09-FEB-2010 01:21	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
08-FEB-2010 23:52	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
08-FEB-2010 22:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
08-FEB-2010 20:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
08-FEB-2010 19:21	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
08-FEB-2010 17:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
08-FEB-2010 16:21	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Cal Level: 3 , Cal Amount: 0.20000		
09-FEB-2010 01:37	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
09-FEB-2010 00:06	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
08-FEB-2010 22:36	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
08-FEB-2010 21:07	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
08-FEB-2010 19:36	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D

08-FEB-2010 18:06	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
08-FEB-2010 16:36	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D

Cal Level: 4 , Cal Amount: 0.50000		
09-FEB-2010 01:52	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
09-FEB-2010 00:21	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
08-FEB-2010 22:52	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
08-FEB-2010 21:21	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
08-FEB-2010 19:51	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
08-FEB-2010 18:22	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
08-FEB-2010 16:51	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D

Cal Level: 5 , Cal Amount: 1.00000		
09-FEB-2010 02:07	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
09-FEB-2010 00:36	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
08-FEB-2010 23:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
08-FEB-2010 21:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
08-FEB-2010 20:07	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
08-FEB-2010 18:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
08-FEB-2010 17:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D

Cal Level: 6 , Cal Amount: 2.00000		
09-FEB-2010 02:22	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
09-FEB-2010 00:51	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
08-FEB-2010 23:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
08-FEB-2010 21:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
08-FEB-2010 20:22	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
08-FEB-2010 18:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
08-FEB-2010 17:22	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Report Date : 09-Feb-2010 07:53

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Last Edit : 09-Feb-2010 07:52 hassl
Curve Type : Average

Calibration File Names:
Level 1: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Level 2: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Level 3: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Level 4: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Level 5: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Level 6: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D

Compound	0.05000 Level 1	0.10000 Level 2	0.20000 Level 3	0.50000 Level 4	1.000 Level 5	2.000 Level 6	___ RRF	% RSD
2 AROCLOR-1221 (1)	1306940	1261280	1179165	1169896	989175	909796	1136042	13.674
(2)	848240	794010	784965	774110	668032	639907	751544	10.681
(3)	2901680	2862920	2673915	2559794	2174478	1945211	2519666	15.251
3 AROCLOR-1016 (1)	4106480	3975500	3727870	3409518	3191408	2928167	3556491	12.929
(2)	7038600	6687300	6384465	6001140	5678041	5137023	6154428	11.267
(3)	14025840	13815520	13470015	13072122	12630703	10858982	12978864	8.893
(4)	5729340	5459910	5452295	5333418	5176357	4804463	5325964	5.884
(5)	5725180	5578090	5260970	5267902	5179034	4809780	5303493	6.055
4 AROCLOR-1232 (1)	4150880	4107690	3843030	3594492	3487449	3112055	3715933	10.700
(2)	3168460	3401350	2934240	2696426	2717869	2409100	2887908	12.382
(3)	6047640	7023220	5583235	5218464	5054049	4703976	5605097	14.868
(4)	2247740	2394600	2167130	2096476	2210230	2010983	2187860	6.025
(5)	2239020	3020540	2058190	1892622	2012566	1847953	2178482	19.963
5 AROCLOR-1242 (1)	3059460	3058220	2813060	2663436	2414223	2236483	2707480	12.447
(2)	5623480	5399410	5129105	4905296	4430570	4035099	4920493	12.164
(3)	11459840	10127500	9710045	9885966	9438043	8448522	9844986	9.976
(4)	4461940	4312190	4099605	4303376	3887106	3695834	4126675	7.038
(5)	4621020	4384980	4003575	4329668	3860688	3716228	4152693	8.360
6 AROCLOR-1248 (1)	1454000	1420260	1370060	1274220	1169565	1086400	1295751	11.252
(2)	3010900	2790060	2820630	2659656	2569180	2369471	2703316	8.226
(3)	3202040	2933820	2928695	2752738	2628508	2366817	2802103	10.286
(4)	2403200	2197730	2249250	2094066	2089068	1918367	2158613	7.648
(5)	1482160	1424600	1450795	1319634	1353246	1245505	1379323	6.475
7 AROCLOR-1254 (1)	2716440	2528470	2332960	2201306	2139507	1996557	2319207	11.442
(2)	3571720	3326230	3062695	2881644	2809567	2601374	3042205	11.721
(3)	4620300	4376080	4095535	3876656	3849058	3674586	4082036	8.757
(4)	3123100	3067400	2852090	2632426	2649791	2582812	2817937	8.315
(5)	3726220	3674840	3472475	3160374	3181404	3086601	3383652	8.244

Report Date : 09-Feb-2010 07:53

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Last Edit : 09-Feb-2010 07:52 hassl
Curve Type : Average

Compound	0.05000 Level 1	0.10000 Level 2	0.20000 Level 3	0.50000 Level 4	1.000 Level 5	2.000 Level 6	___ RRF	% RSD	
8 AROCLOR-1260 (1)	3216600	3314960	3014060	3008766	2930328	2625282	3018333	7.974	
(2)	4469260	4635280	4267265	4196426	4152767	3637914	4226485	8.062	
(3)	3947260	4191690	3889460	3841998	3851293	3383380	3850847	6.827	
(4)	5717600	6183230	6008290	5841704	5808119	4984962	5757318	7.171	
(5)	3057940	3341190	3178210	3083408	3085732	2652223	3066451	7.441	
13 AROCLOR-1262 (1)	2645180	2546250	2456525	2267548	2088075	2101119	2350783	9.964	
(2)	3506460	3367880	3198265	2990014	2796289	2804869	3110629	9.508	
(3)	4060880	3916100	3752905	3497380	3287716	3277441	3632070	9.062	
(4)	6888620	6801320	6569130	6292972	5871569	5904541	6388025	6.873	
(5)	2712680	2535220	2453775	2366522	2235996	2266865	2428510	7.362	
14 AROCLOR-1268 (1)	9211780	8938980	8022590	8722446	8455422	7663883	8502517	6.813	
(2)	8526060	8388300	7599130	8268058	8025460	7263962	8011828	6.119	
(3)	7014100	6818040	6152720	6789050	6622531	6048634	6574179	5.912	
(4)	3030600	3000890	2575970	2866612	2907263	2571629	2825494	7.217	
(5)	22033560	21701080	18770780	20305356	20048105	17711797	20095113	8.272	
M 15 TOTAL PCB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 1 TCMX	148213600	122641000	128687500	117843000	115503980	112511980	124233510	10.507	
$ 9 DCB	57004000	62043200	60081600	54615440	54969080	44117220	55471757	11.307	

TestAmerica North Canton

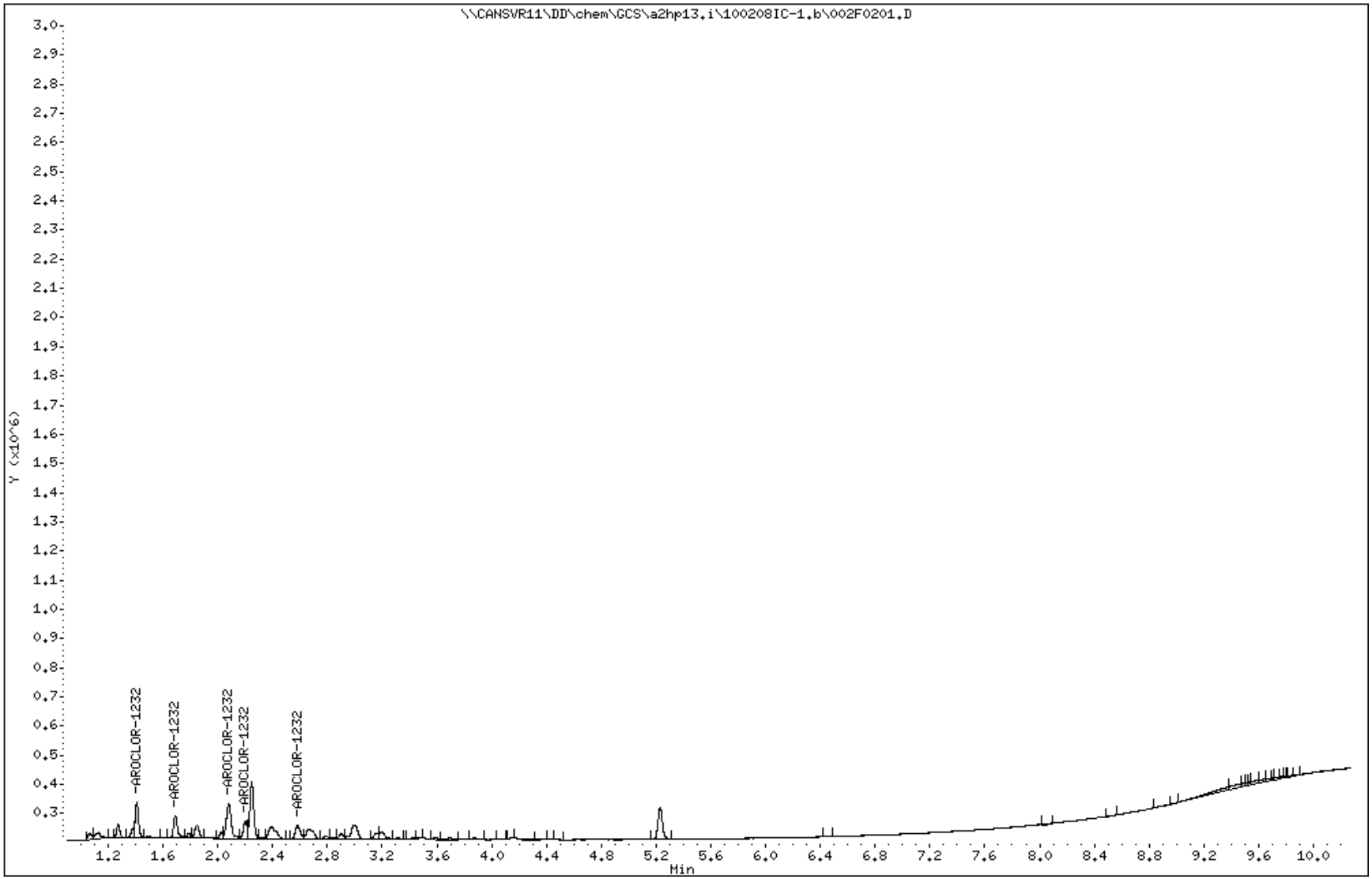
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:06
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,1
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	207544	0.05000	0.05454	75.00- 125.00	100.00
1.689	1.691	-0.002	158423	0.05000	0.05486	56.26- 93.77	76.33
2.079	2.083	-0.004	302382	0.05000	0.05395	108.88- 181.47	145.70
2.201	2.203	-0.002	112387	0.05000	0.05137	43.74- 72.91	54.15
2.582	2.584	-0.002	111951	0.05000	0.05139	39.49- 65.82	53.94
		Average of Peak Amounts =			0.05322		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Date : 08-FEB-2010 16:06
Client ID:
Sample Info: 1232,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

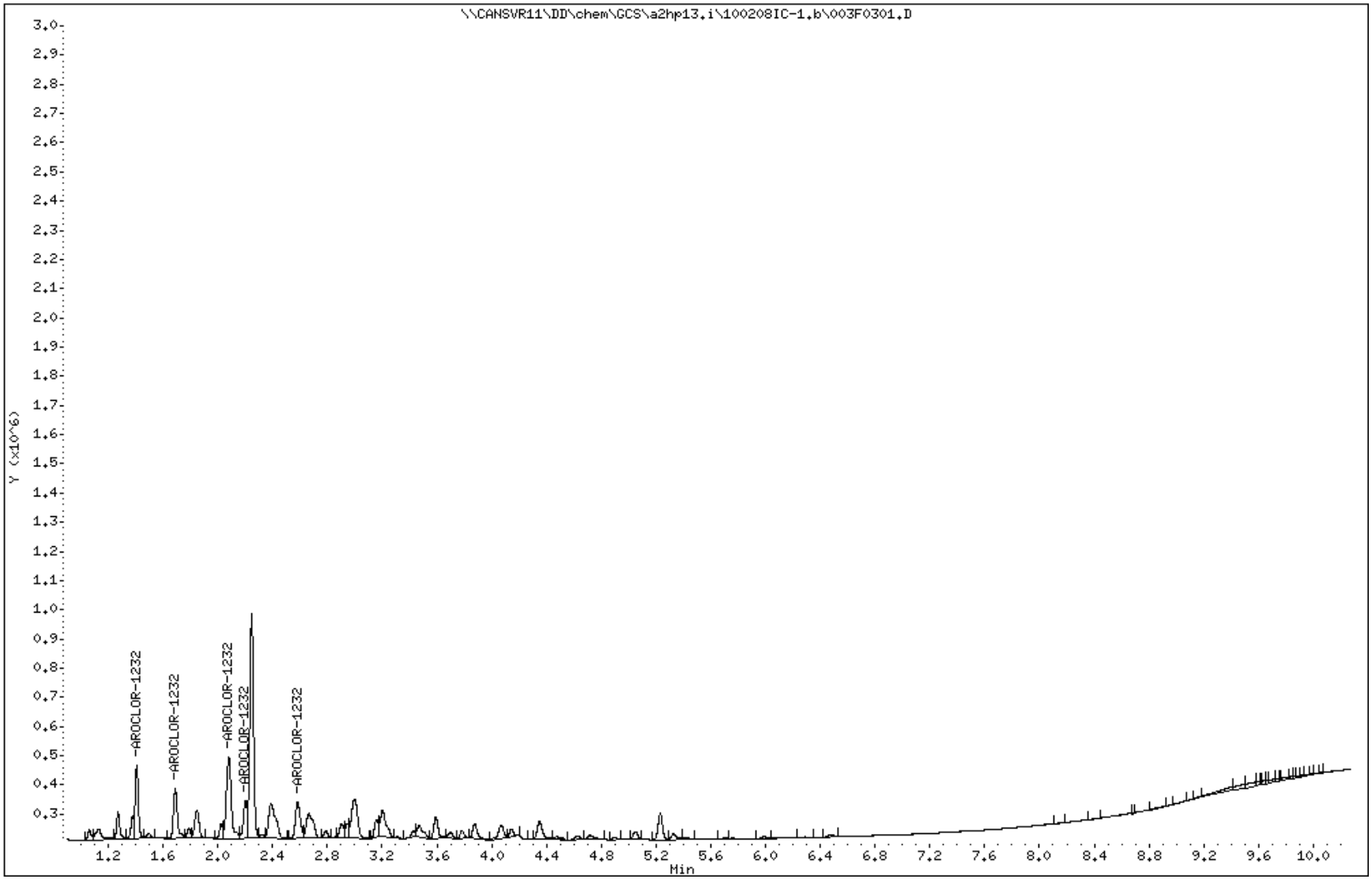
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:21
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,2
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	410769	0.10000	0.1080	75.00- 125.00	100.00
1.688	1.691	-0.003	340135	0.10000	0.1178	56.26- 93.77	82.80
2.080	2.083	-0.003	702322	0.10000	0.1253	108.88- 181.47	170.98
2.201	2.203	-0.002	239460	0.10000	0.1094	43.74- 72.91	58.30
2.583	2.584	-0.001	302054	0.10000	0.1386	39.49- 65.82	73.53
		Average of Peak Amounts =			0.11982		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Date : 08-FEB-2010 16:21
Client ID:
Sample Info: 1232,,1,2
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

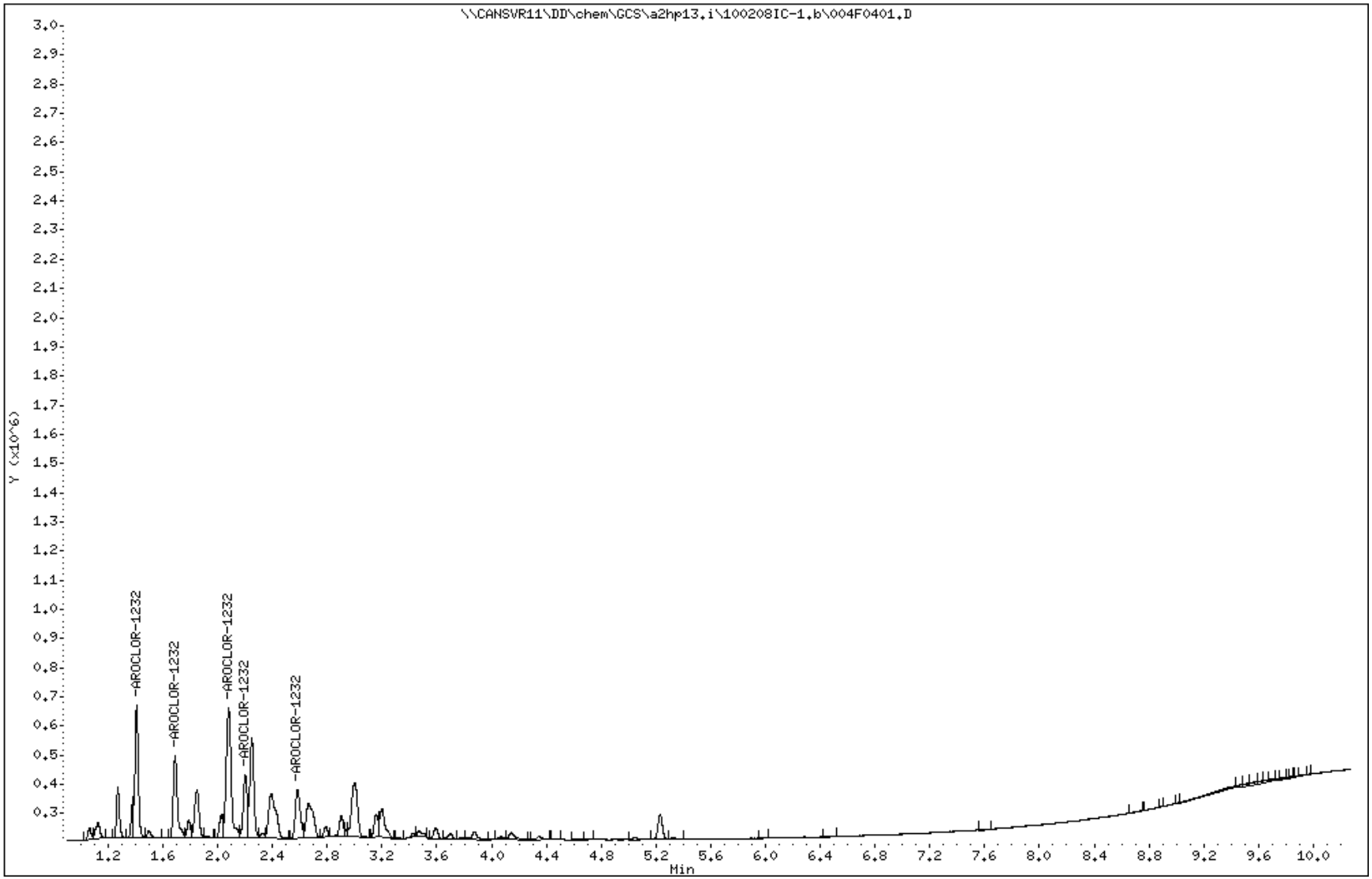
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:36
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,3
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.407	1.410	-0.003	768606	0.20000	0.2020	75.00- 125.00	100.00
1.688	1.691	-0.003	586848	0.20000	0.2032	56.26- 93.77	76.35
2.079	2.083	-0.004	1116647	0.20000	0.1992	108.88- 181.47	145.28
2.199	2.203	-0.004	433426	0.20000	0.1981	43.74- 72.91	56.39
2.580	2.584	-0.004	411638	0.20000	0.1890	39.49- 65.82	53.56
		Average of Peak Amounts =			0.19830		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D
Date : 08-FEB-2010 16:36
Client ID:
Sample Info: 1232,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

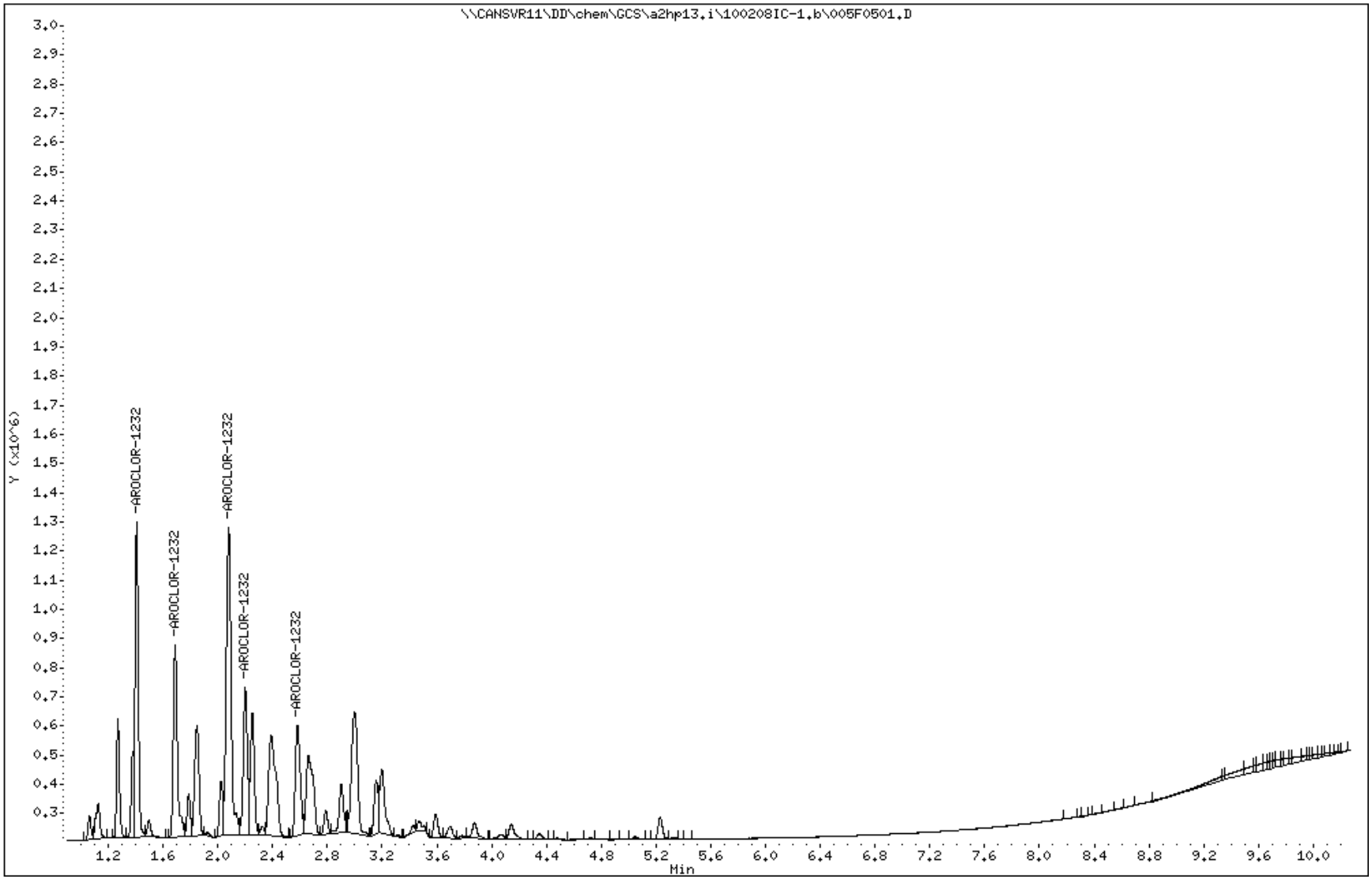
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:51
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,4
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.407	1.410	-0.003	1797246	0.50000	0.4723	75.00- 125.00	100.00
1.687	1.691	-0.004	1348213	0.50000	0.4668	56.26- 93.77	75.02
2.079	2.083	-0.004	2609232	0.50000	0.4655	108.88- 181.47	145.18
2.199	2.203	-0.004	1048238	0.50000	0.4791	43.74- 72.91	58.32
2.580	2.584	-0.004	946311	0.50000	0.4344	39.49- 65.82	52.65
		Average of Peak Amounts =			0.46362		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D
Date : 08-FEB-2010 16:51
Client ID:
Sample Info: 1232,,1,4
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

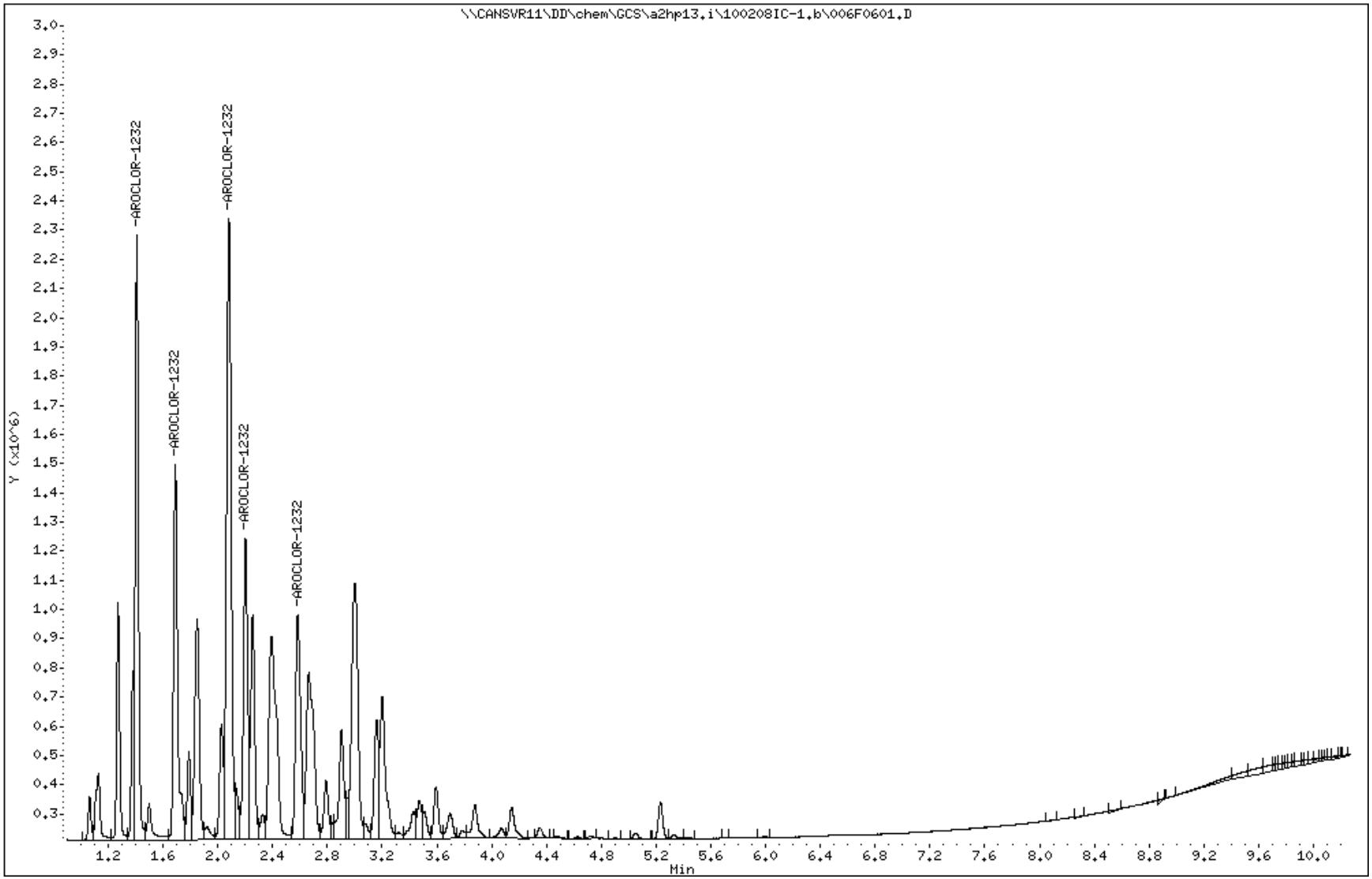
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 17:06
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,5
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	3487449	1.00000	0.9165	75.00- 125.00	100.00
1.689	1.691	-0.002	2717869	1.00000	0.9411	56.26- 93.77	77.93
2.081	2.083	-0.002	5054049	1.00000	0.9017	108.88- 181.47	144.92
2.201	2.203	-0.002	2210230	1.00000	1.010	43.74- 72.91	63.38
2.582	2.584	-0.002	2012566	1.00000	0.9238	39.49- 65.82	57.71
		Average of Peak Amounts =			0.93862		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D
Date : 08-FEB-2010 17:06
Client ID:
Sample Info: 1232,,1,5

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 17:22
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,6
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.410	1.410	0.000	6224110	2.00000	1.675	75.00- 125.00	100.00(M)
1.691	1.691	0.000	4818200	2.00000	1.668	56.26- 93.77	77.41
2.083	2.083	0.000	9407952	2.00000	1.678	108.88- 181.47	151.15
2.203	2.203	0.000	4021965	2.00000	1.838	43.74- 72.91	64.62
2.584	2.584	0.000	3695905	2.00000	1.696	39.49- 65.82	59.38
		Average of Peak Amounts =			1.71100		

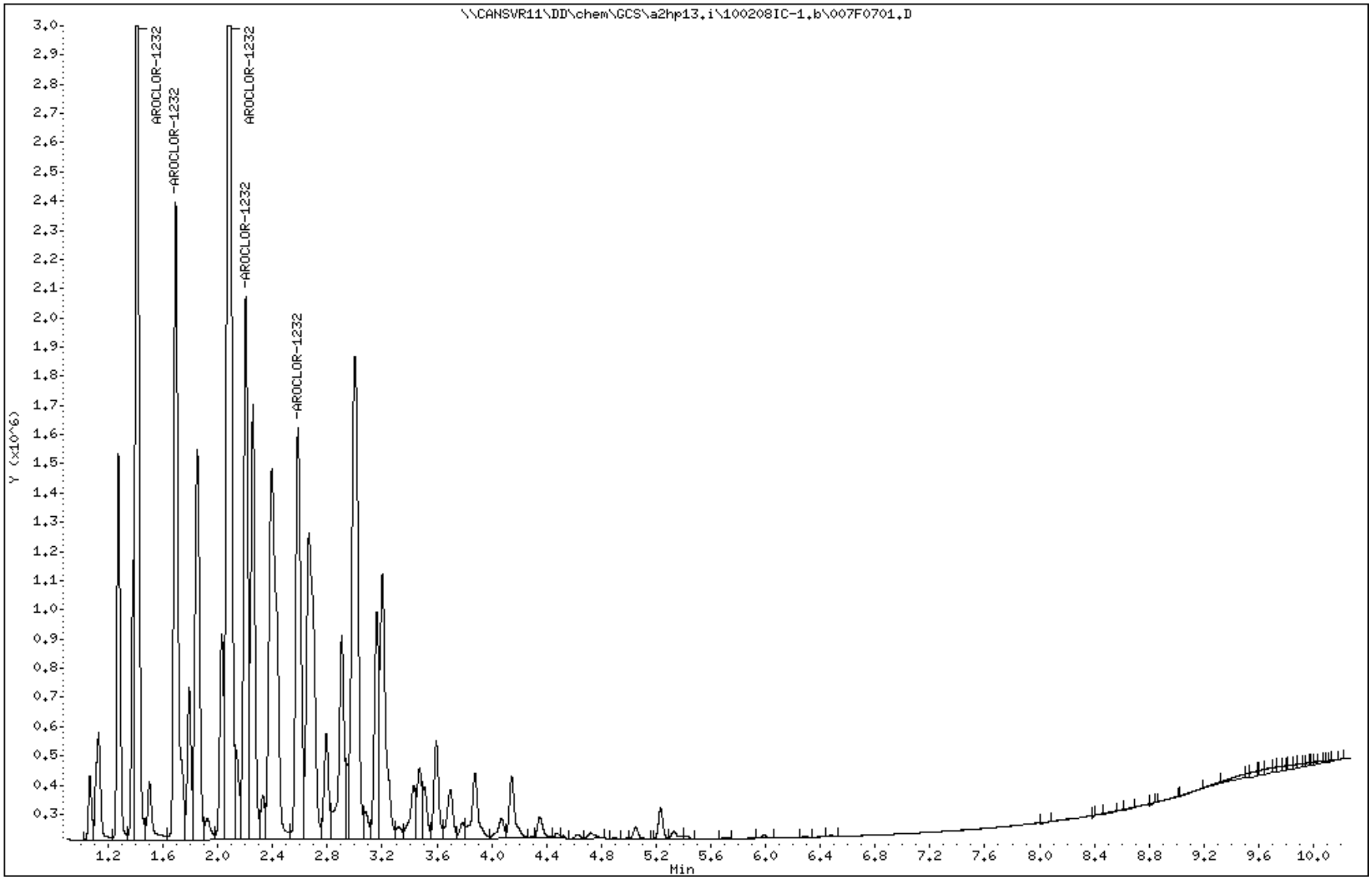
QC Flag Legend

M - Compound response manually integrated.

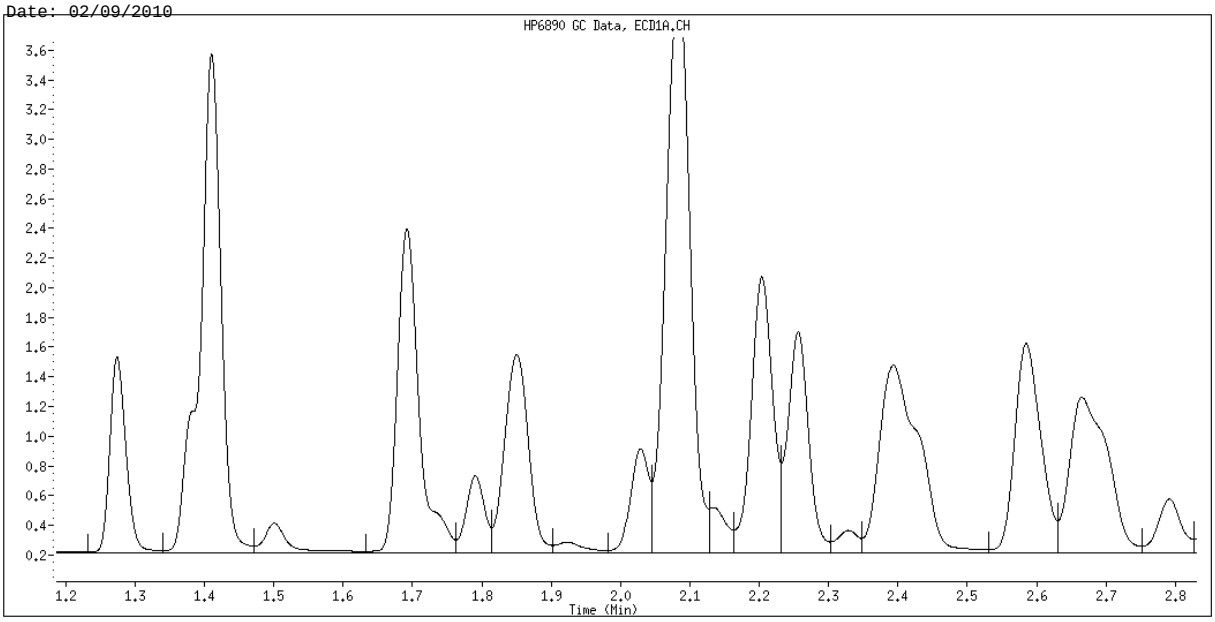
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D
Date : 08-FEB-2010 17:22
Client ID:
Sample Info: 1232,,1,6

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

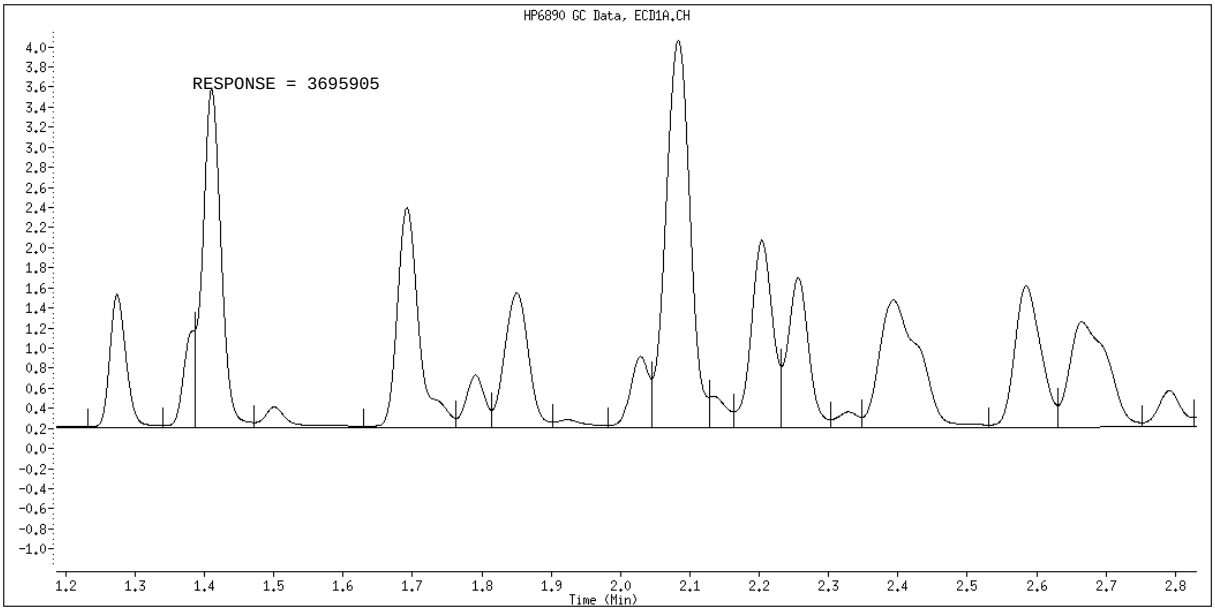
Column phase: restek pest clpI



Data File Name: 007F0701.D
Inj. Date and Time: 08-FEB-2010 17:22
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1232
CAS #: 11141-16-5
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

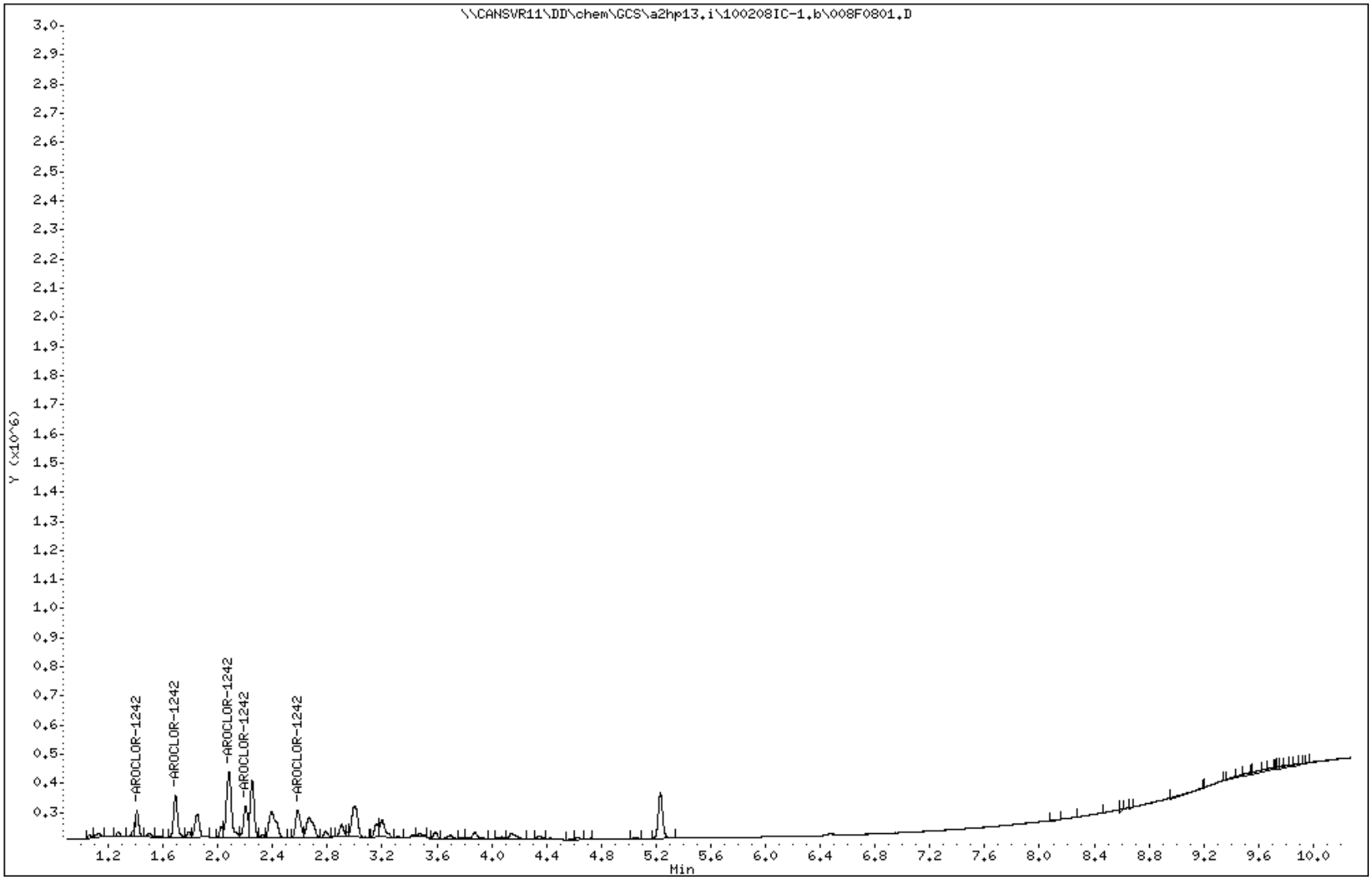
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 17:37
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,1
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	152973	0.05000	0.05535	75.00- 125.00	100.00
1.690	1.691	-0.001	281174	0.05000	0.05714	138.13- 230.21	183.81
2.081	2.082	-0.001	572992	0.05000	0.05820	278.38- 463.97	374.57
2.201	2.202	-0.001	223097	0.05000	0.05406	121.18- 201.97	145.84
2.583	2.584	-0.001	231051	0.05000	0.05564	121.92- 203.20	151.04
		Average of Peak Amounts =			0.05608		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
Date : 08-FEB-2010 17:37
Client ID:
Sample Info: 1242,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

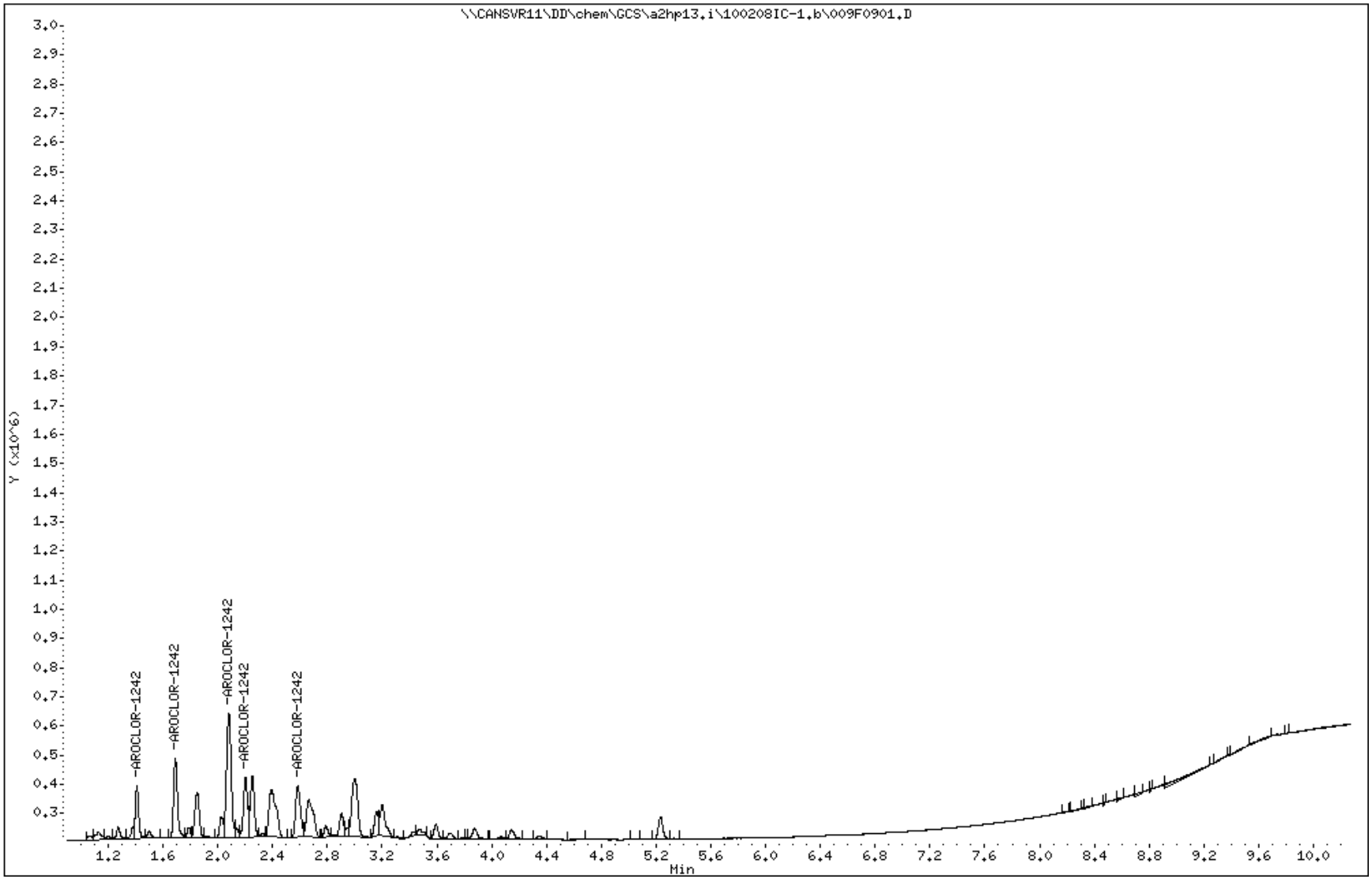
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 17:51
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,2
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	305822	0.10000	0.1106	75.00- 125.00	100.00
1.689	1.691	-0.002	539941	0.10000	0.1097	138.13- 230.21	176.55
2.080	2.082	-0.002	1012750	0.10000	0.1029	278.38- 463.97	331.16
2.201	2.202	-0.001	431219	0.10000	0.1045	121.18- 201.97	141.00
2.583	2.584	-0.001	438498	0.10000	0.1056	121.92- 203.20	143.38
		Average of Peak Amounts =			0.10666		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
Date : 08-FEB-2010 17:51
Client ID:
Sample Info: 1242,,1,2
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

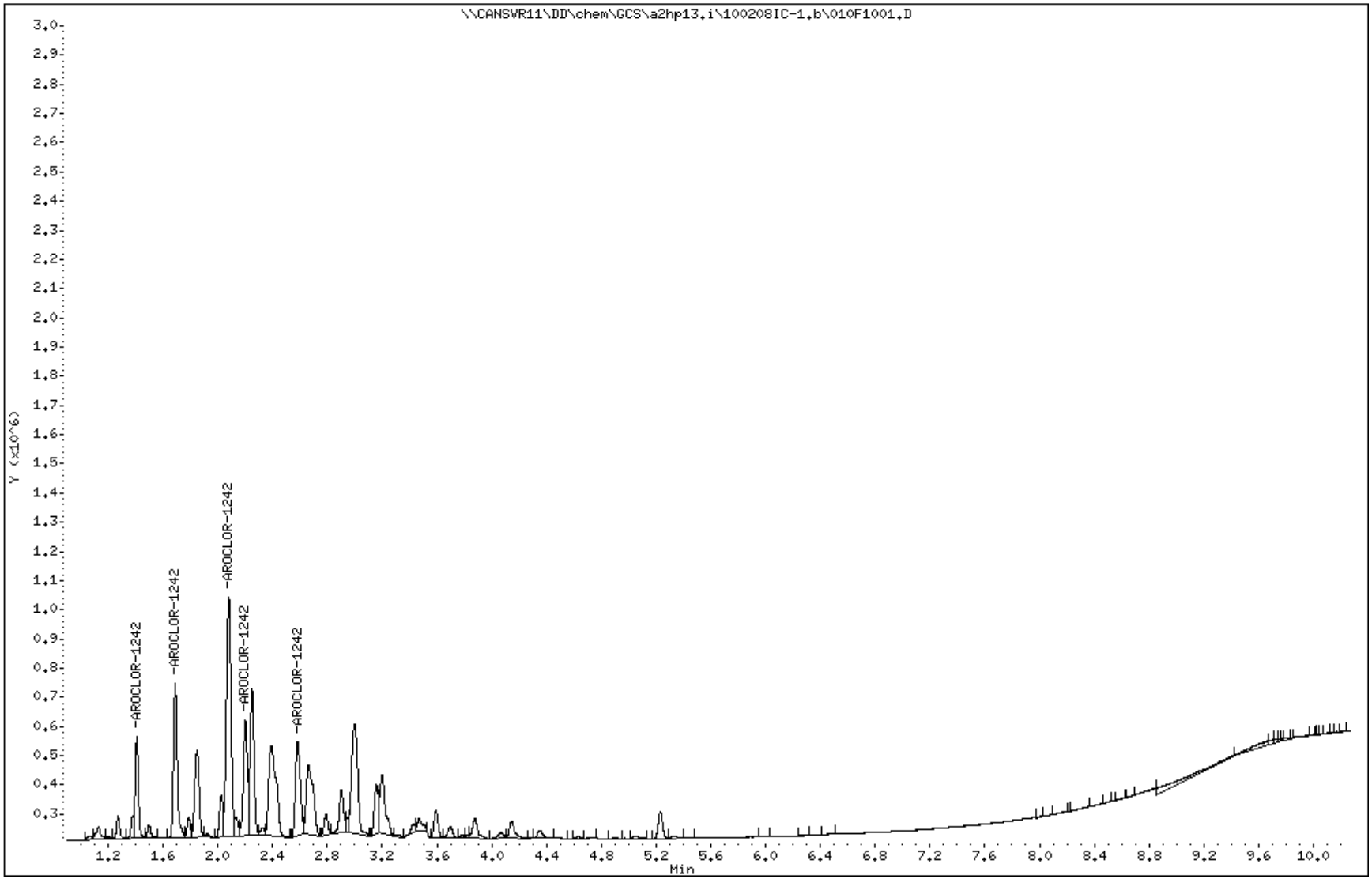
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:06
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,3
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	562612	0.20000	0.2036	75.00- 125.00	100.00
1.689	1.691	-0.002	1025821	0.20000	0.2085	138.13- 230.21	182.33
2.079	2.082	-0.003	1942009	0.20000	0.1972	278.38- 463.97	345.18
2.201	2.202	-0.001	819921	0.20000	0.1987	121.18- 201.97	145.73
2.582	2.584	-0.002	800715	0.20000	0.1928	121.92- 203.20	142.32
		Average of Peak Amounts =			0.20016		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
Date : 08-FEB-2010 18:06
Client ID:
Sample Info: 1242,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

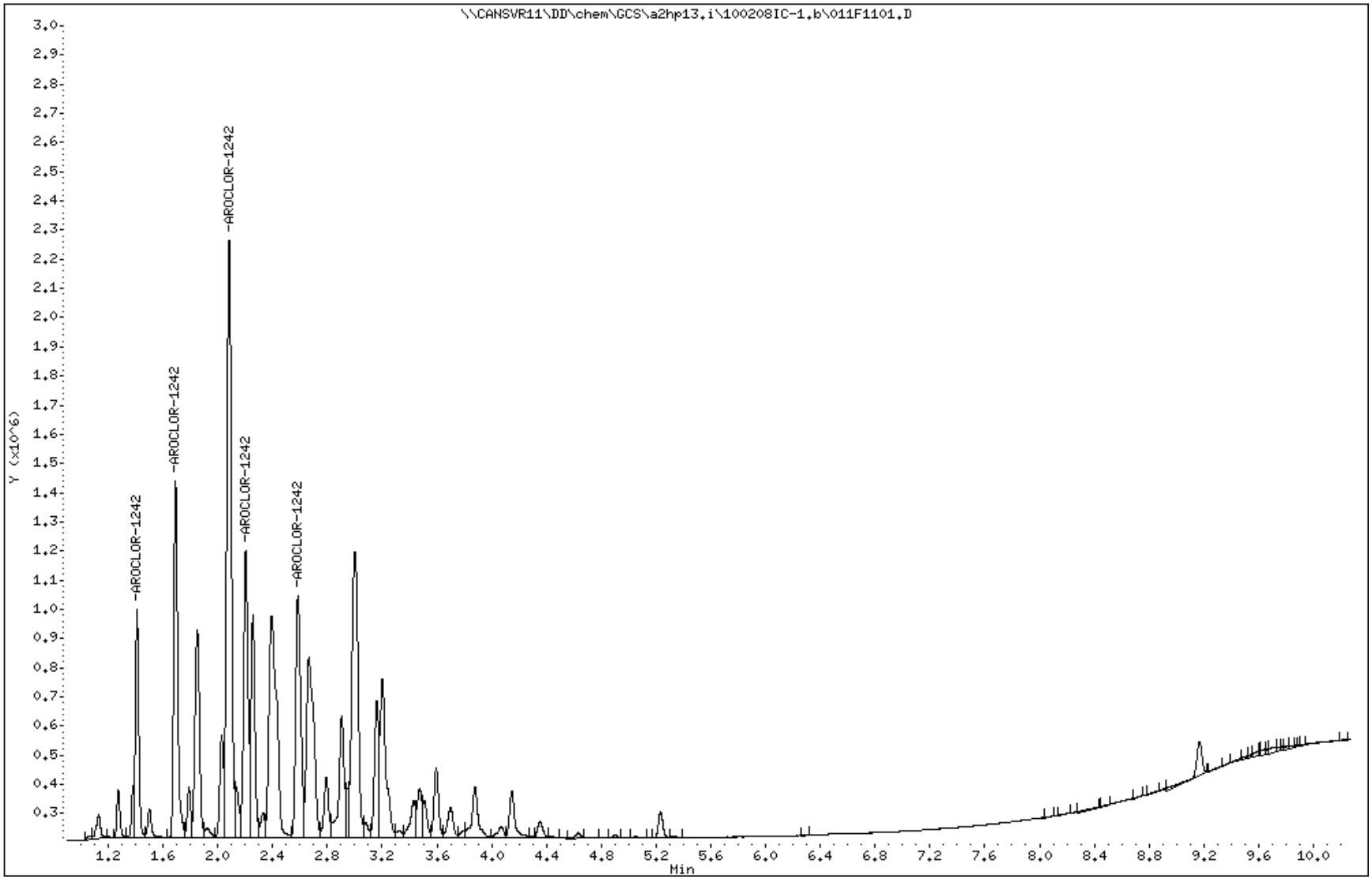
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:22
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,4
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.409	1.410	-0.001	1331718	0.50000	0.4919	75.00- 125.00	100.00
1.691	1.691	0.000	2452648	0.50000	0.4984	138.13- 230.21	184.17
2.083	2.082	0.001	4942983	0.50000	0.5021	278.38- 463.97	371.17
2.204	2.202	0.002	2151688	0.50000	0.5214	121.18- 201.97	161.57
2.584	2.584	0.000	2164834	0.50000	0.5213	121.92- 203.20	162.56
		Average of Peak Amounts =			0.50702		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
Date : 08-FEB-2010 18:22
Client ID:
Sample Info: 1242,,1,4

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

PCB 8082/608

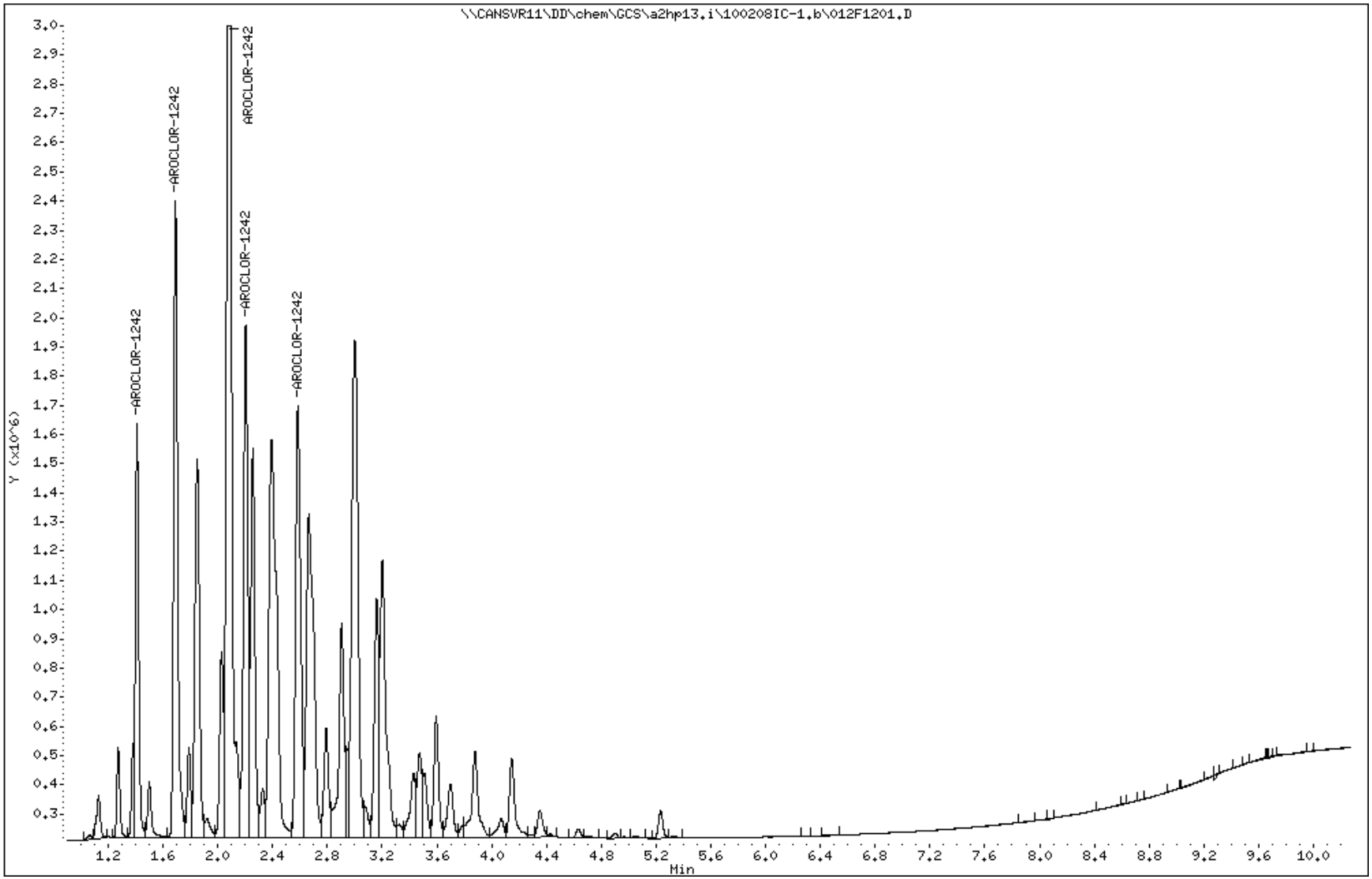
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:37
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,5
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.409	1.410	-0.001	2414223	1.00000	0.8917	75.00- 125.00	100.00
1.690	1.691	-0.001	4430570	1.00000	0.9004	138.13- 230.21	183.52
2.082	2.082	0.000	9438043	1.00000	0.9587	278.38- 463.97	390.94
2.202	2.202	0.000	3887106	1.00000	0.9419	121.18- 201.97	161.01
2.583	2.584	-0.001	3860688	1.00000	0.9297	121.92- 203.20	159.91
Average of Peak Amounts =					0.92448		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
Date : 08-FEB-2010 18:37
Client ID:
Sample Info: 1242,,1,5

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:51
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,6
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

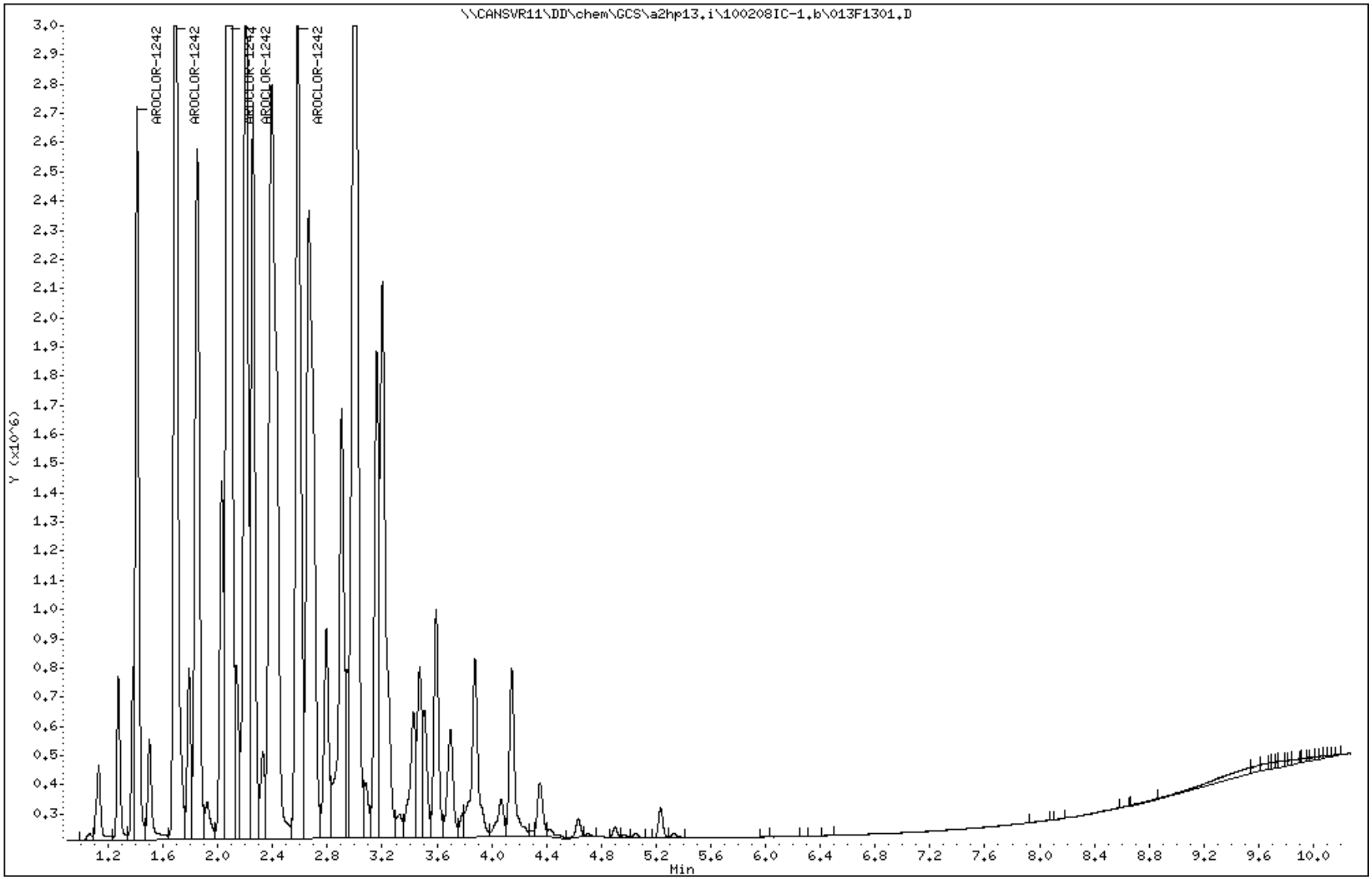
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.410	1.410	0.000	4472965	2.00000	1.652	75.00- 125.00	100.00(M)
1.691	1.691	0.000	8070198	2.00000	1.640	138.13- 230.21	180.42
2.082	2.082	0.000	16897043	2.00000	1.716	278.38- 463.97	377.76
2.202	2.202	0.000	7391668	2.00000	1.791	121.18- 201.97	165.25
2.584	2.584	0.000	7432456	2.00000	1.790	121.92- 203.20	166.16
		Average of Peak Amounts =			1.71780		

QC Flag Legend

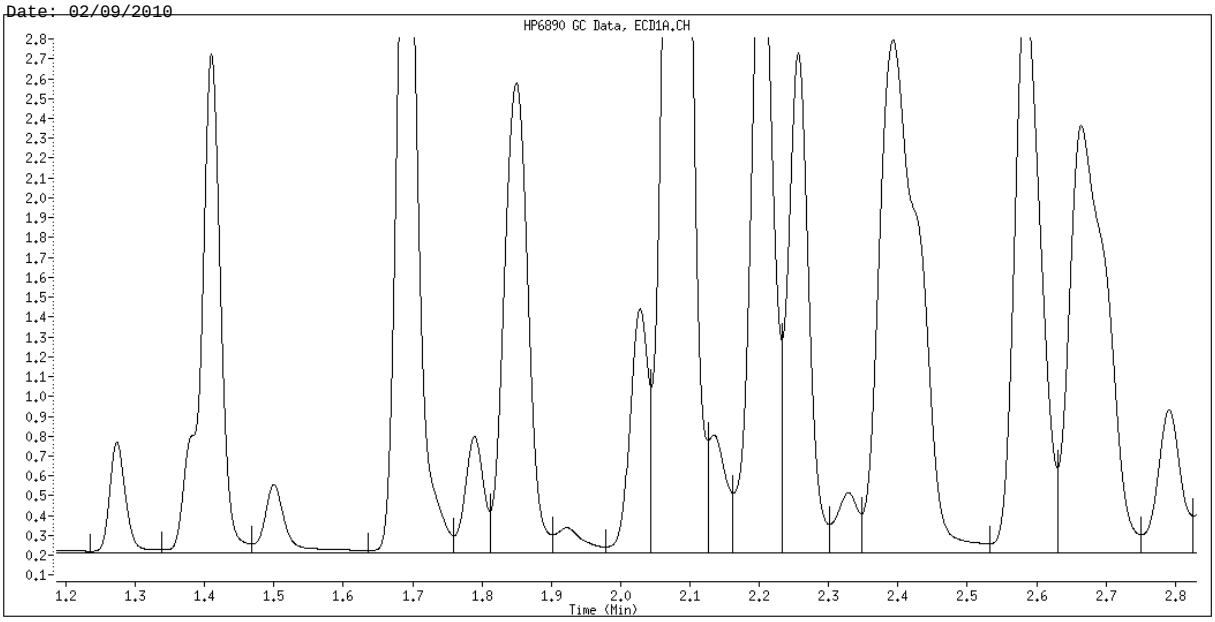
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
Date : 08-FEB-2010 18:51
Client ID:
Sample Info: 1242,,1,6

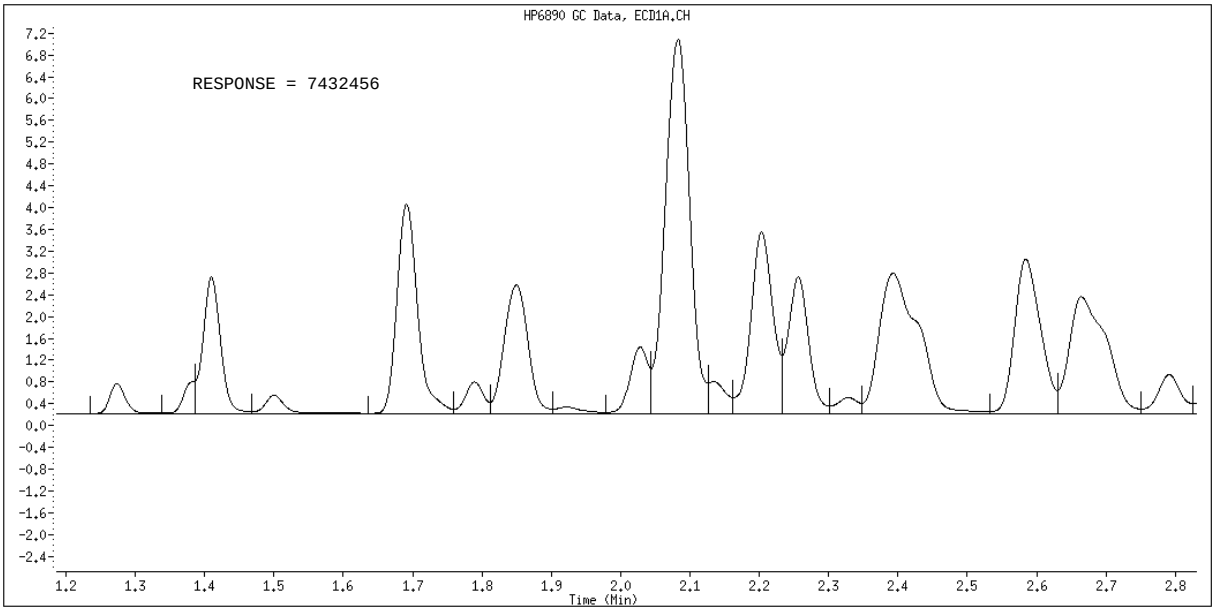
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 013F1301.D
Inj. Date and Time: 08-FEB-2010 18:51
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1242
CAS #: 53469-21-9
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

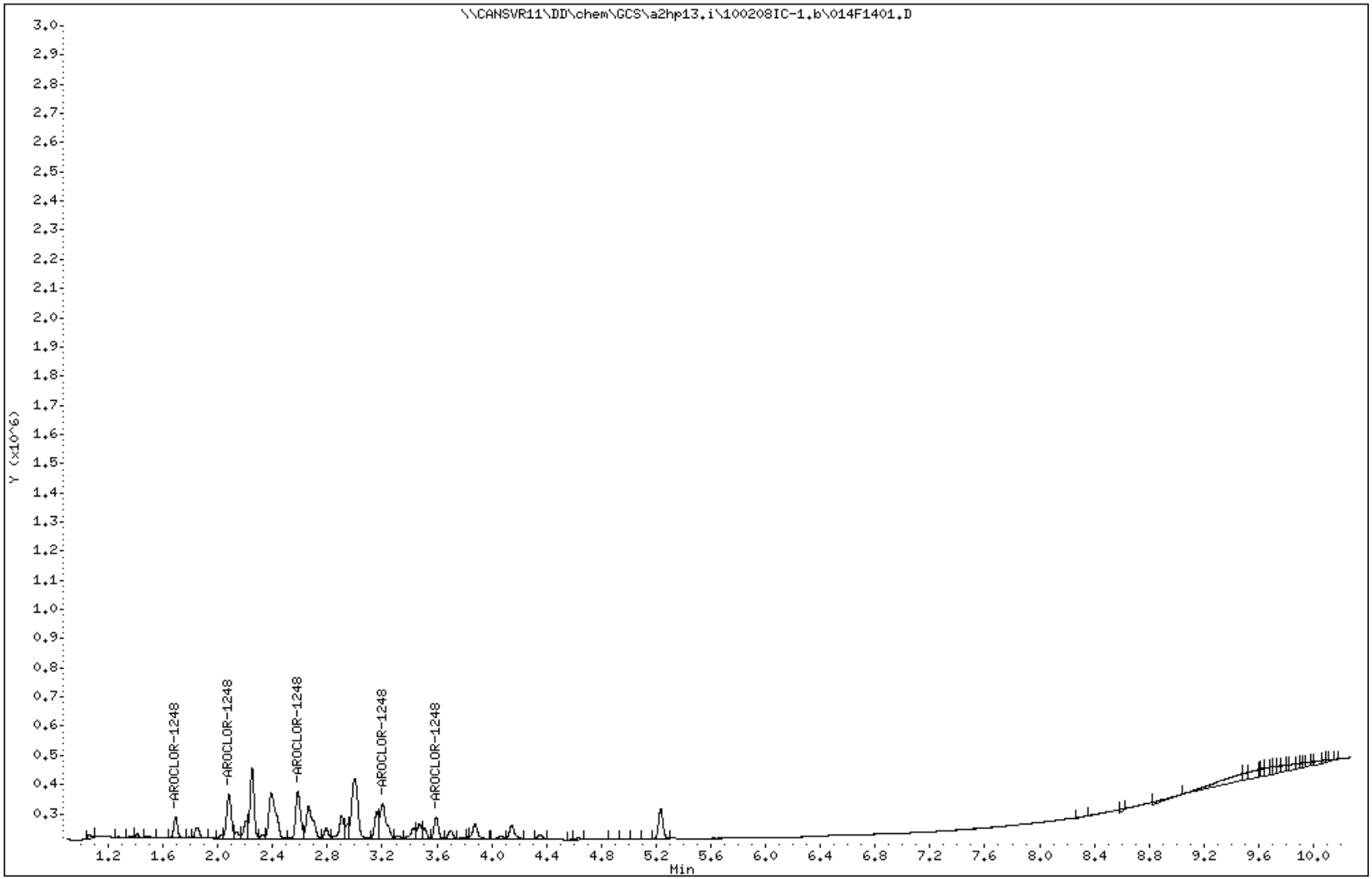
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:06
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,1
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 14 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.690	1.689	0.001	72700	0.05000	0.05611	75.00- 125.00	100.00
2.080	2.081	-0.001	150545	0.05000	0.05569	156.55- 260.91	207.08
2.582	2.583	-0.001	160102	0.05000	0.05714	162.02- 270.04	220.22
3.202	3.202	0.000	120160	0.05000	0.05566	123.26- 205.43	165.28
3.593	3.595	-0.002	74108	0.05000	0.05373	77.67- 129.46	101.94
		Average of Peak Amounts =			0.05567		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
Date : 08-FEB-2010 19:06
Client ID:
Sample Info: 1248,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

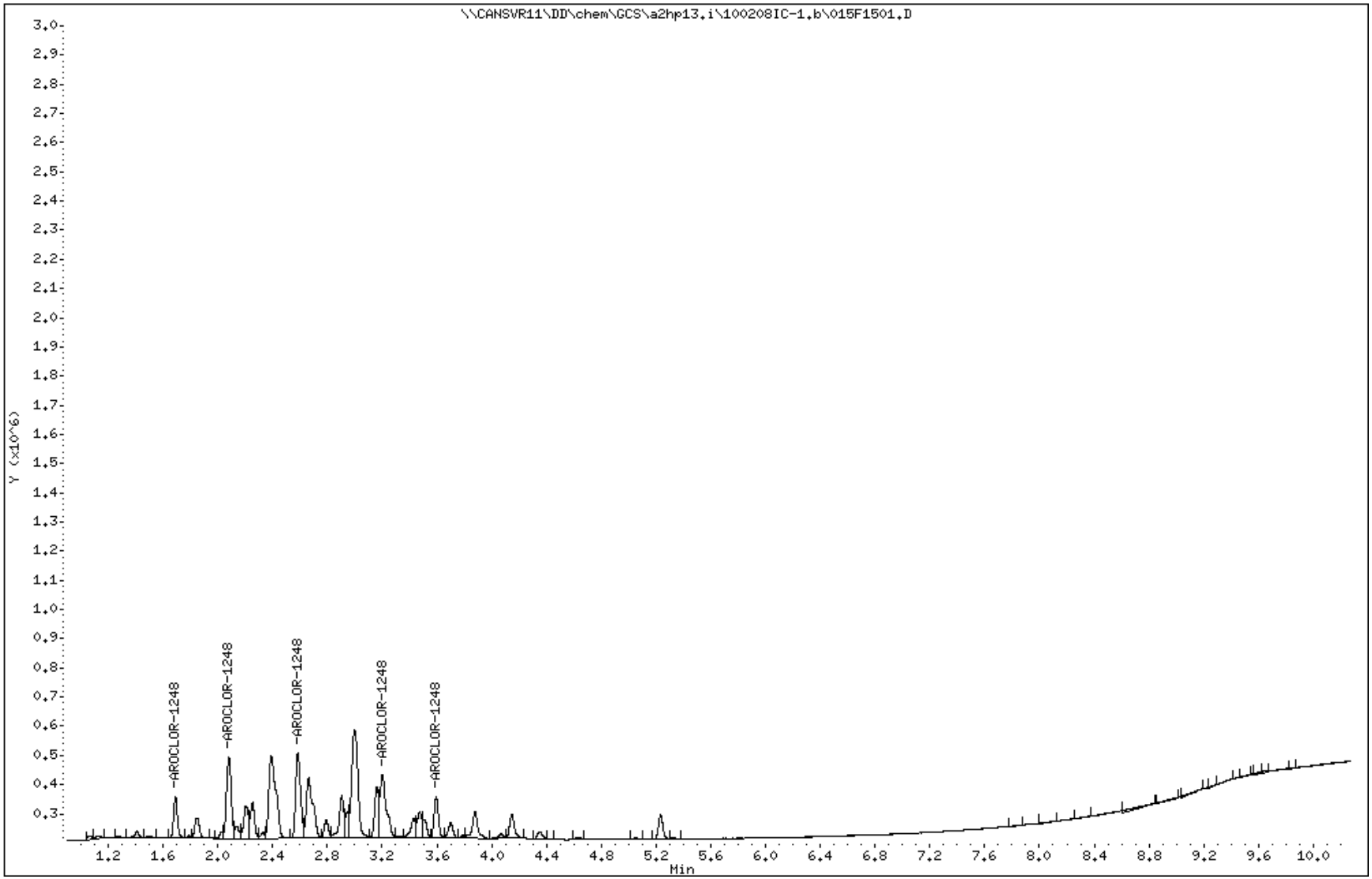
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:21
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,2
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	142026	0.10000	0.1096	75.00- 125.00	100.00
2.081	2.081	0.000	279006	0.10000	0.1032	156.55- 260.91	196.45
2.583	2.583	0.000	293382	0.10000	0.1047	162.02- 270.04	206.57
3.203	3.202	0.001	219773	0.10000	0.1018	123.26- 205.43	154.74
3.594	3.595	-0.001	142460	0.10000	0.1033	77.67- 129.46	100.31
Average of Peak Amounts =					0.10452		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
Date : 08-FEB-2010 19:21
Client ID:
Sample Info: 1248,,1,2
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

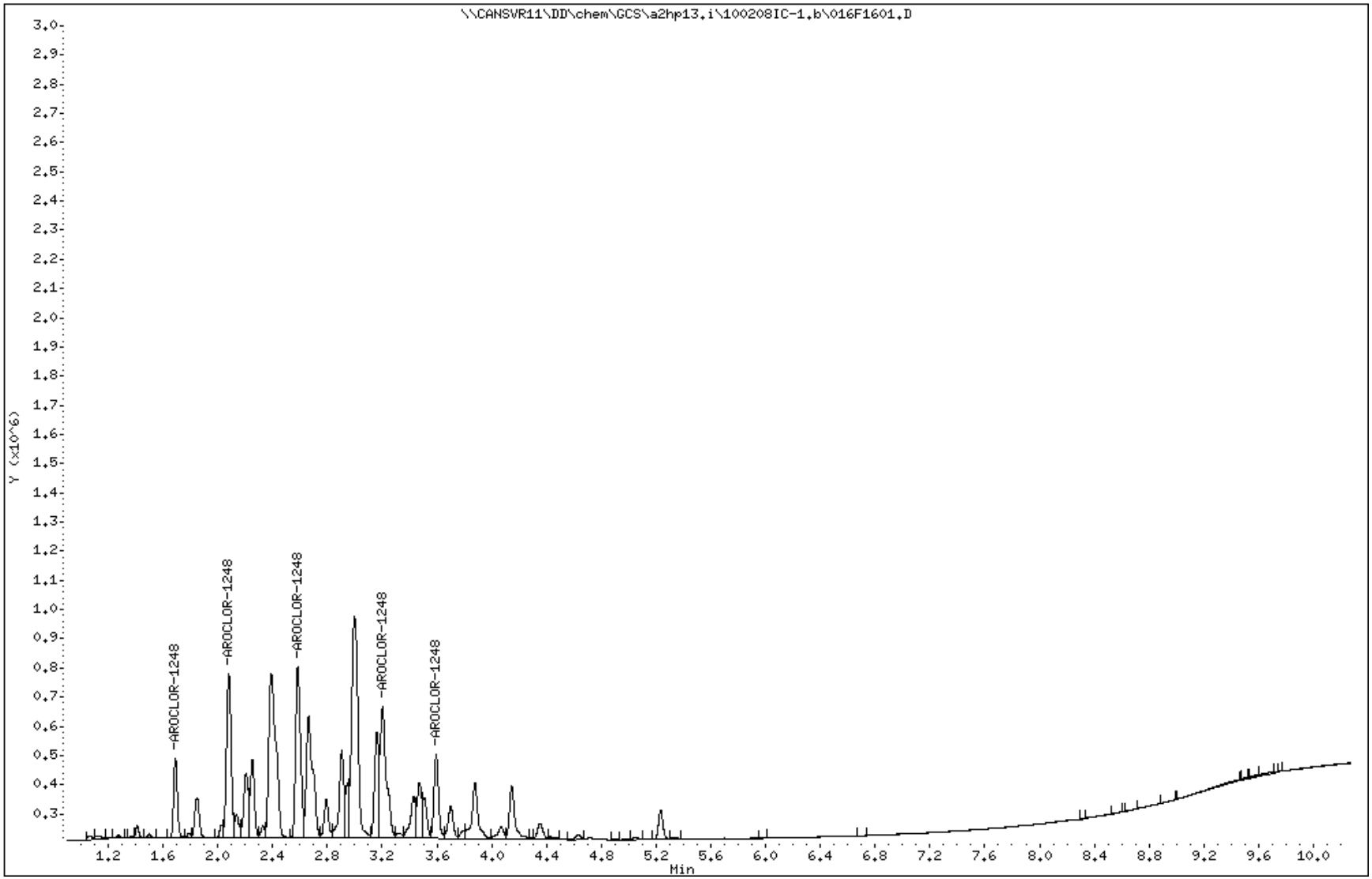
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:36
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,3
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 16 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	274012	0.20000	0.2115	75.00- 125.00	100.00
2.080	2.081	-0.001	564126	0.20000	0.2087	156.55- 260.91	205.88
2.583	2.583	0.000	585739	0.20000	0.2090	162.02- 270.04	213.76
3.203	3.202	0.001	449850	0.20000	0.2084	123.26- 205.43	164.17
3.593	3.595	-0.002	290159	0.20000	0.2104	77.67- 129.46	105.89
		Average of Peak Amounts =			0.20960		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D
Date : 08-FEB-2010 19:36
Client ID:
Sample Info: 1248,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

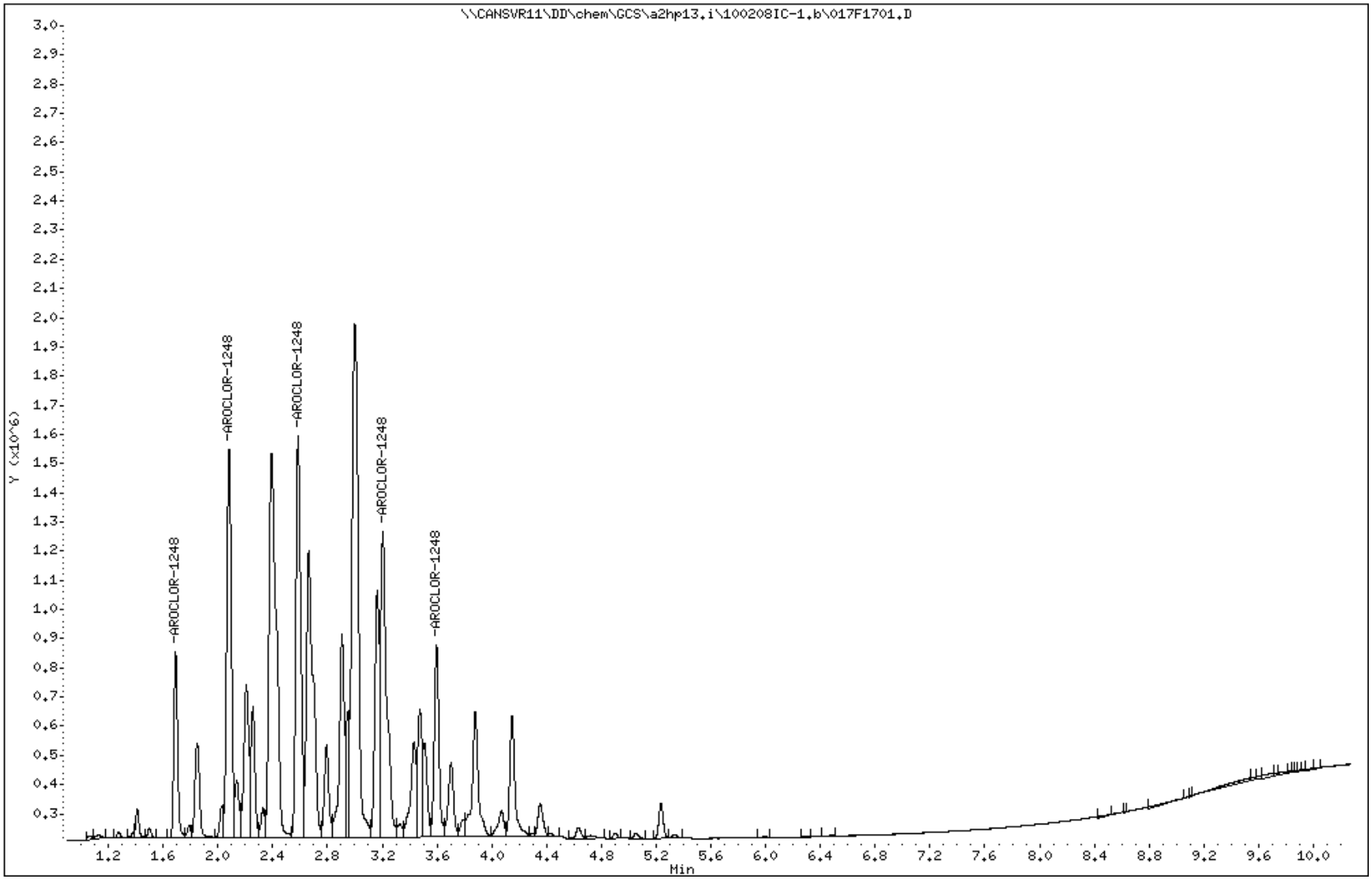
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:51
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,4
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 17 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.690	1.689	0.001	637110	0.50000	0.4917	75.00- 125.00	100.00
2.081	2.081	0.000	1329828	0.50000	0.4919	156.55- 260.91	208.73
2.585	2.583	0.002	1376369	0.50000	0.4912	162.02- 270.04	216.03
3.205	3.202	0.003	1047033	0.50000	0.4850	123.26- 205.43	164.34
3.595	3.595	0.000	659817	0.50000	0.4784	77.67- 129.46	103.56
		Average of Peak Amounts =			0.48764		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
Date : 08-FEB-2010 19:51
Client ID:
Sample Info: 1248,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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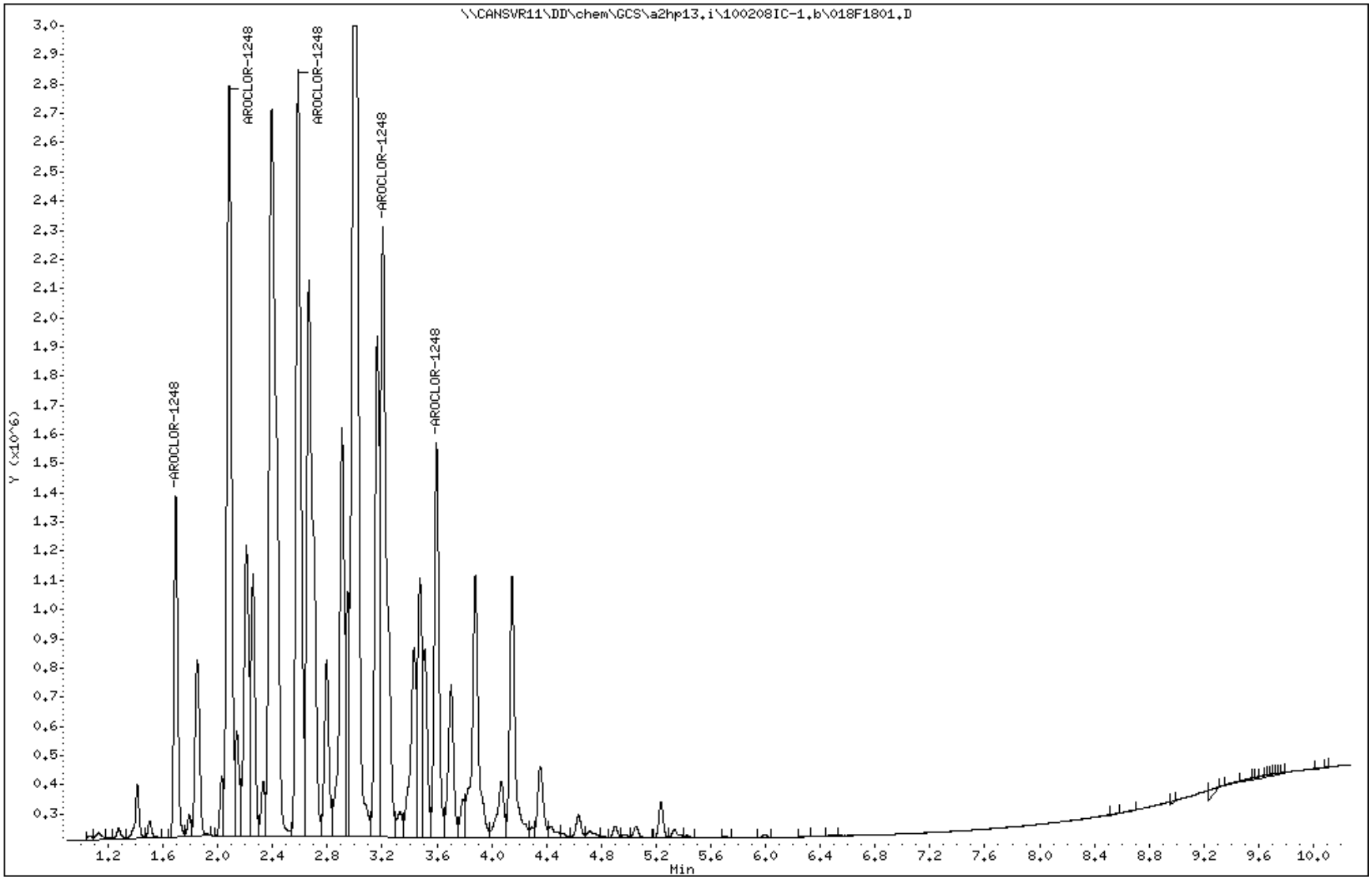
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 20:07
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,5
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.692	1.689	0.003	1169565	1.00000	0.9026	75.00- 125.00	100.00
2.081	2.081	0.000	2569180	1.00000	0.9504	156.55- 260.91	219.67
2.585	2.583	0.002	2628508	1.00000	0.9380	162.02- 270.04	224.74
3.204	3.202	0.002	2089068	1.00000	0.9678	123.26- 205.43	178.62
3.595	3.595	0.000	1353246	1.00000	0.9811	77.67- 129.46	115.71
Average of Peak Amounts =					0.94798		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
Date : 08-FEB-2010 20:07
Client ID:
Sample Info: 1248,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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PCB 8082/608

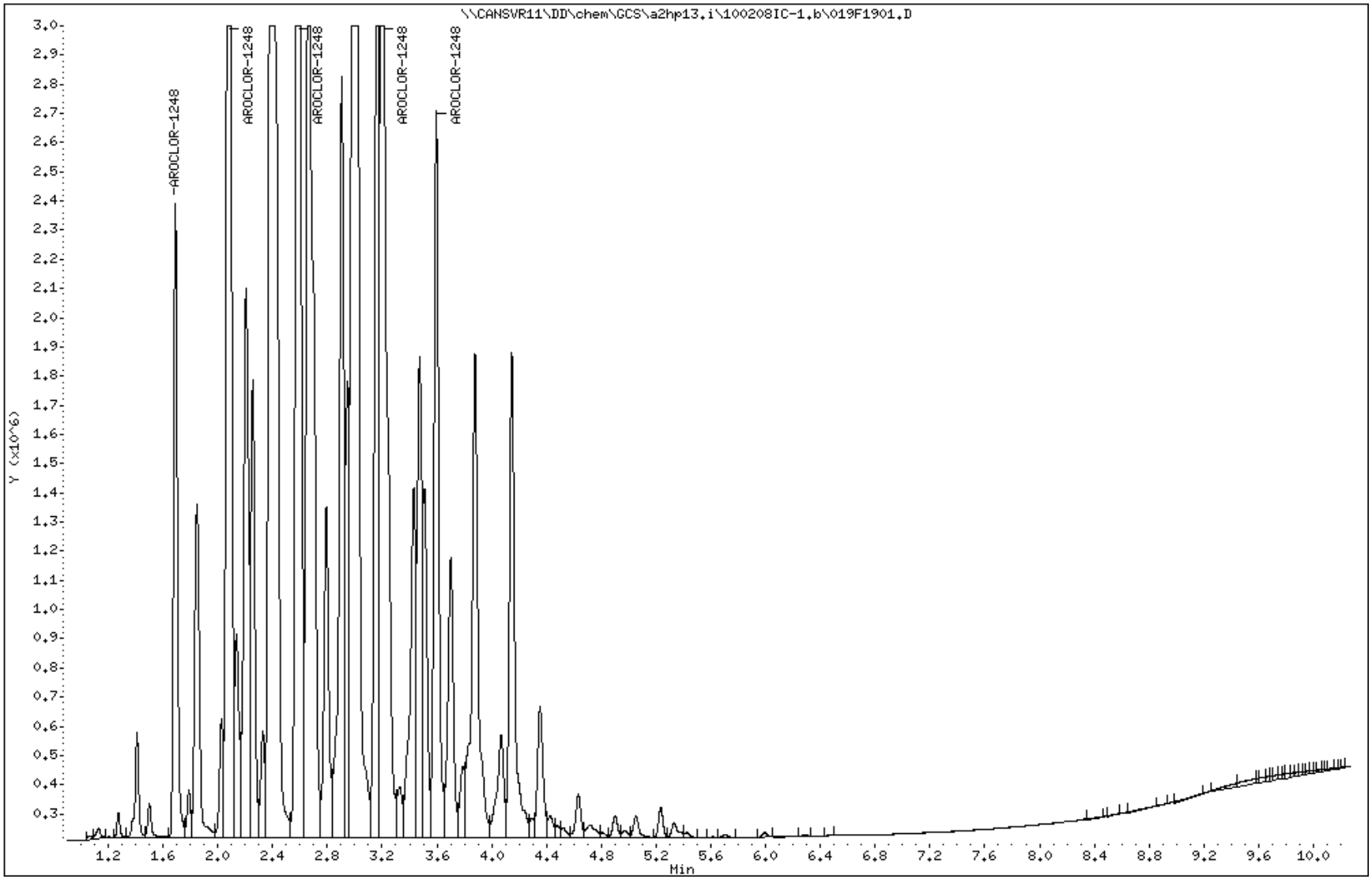
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 20:22
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,6
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 19 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	2172800	2.00000	1.677	75.00- 125.00	100.00
2.081	2.081	0.000	4738942	2.00000	1.753	156.55- 260.91	218.10
2.583	2.583	0.000	4733633	2.00000	1.689	162.02- 270.04	217.86
3.202	3.202	0.000	3836733	2.00000	1.777	123.26- 205.43	176.58
3.595	3.595	0.000	2491009	2.00000	1.806	77.67- 129.46	114.65
Average of Peak Amounts =					1.74040		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
Date : 08-FEB-2010 20:22
Client ID:
Sample Info: 1248,,1,6

Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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North Canton

TestAmerica North Canton

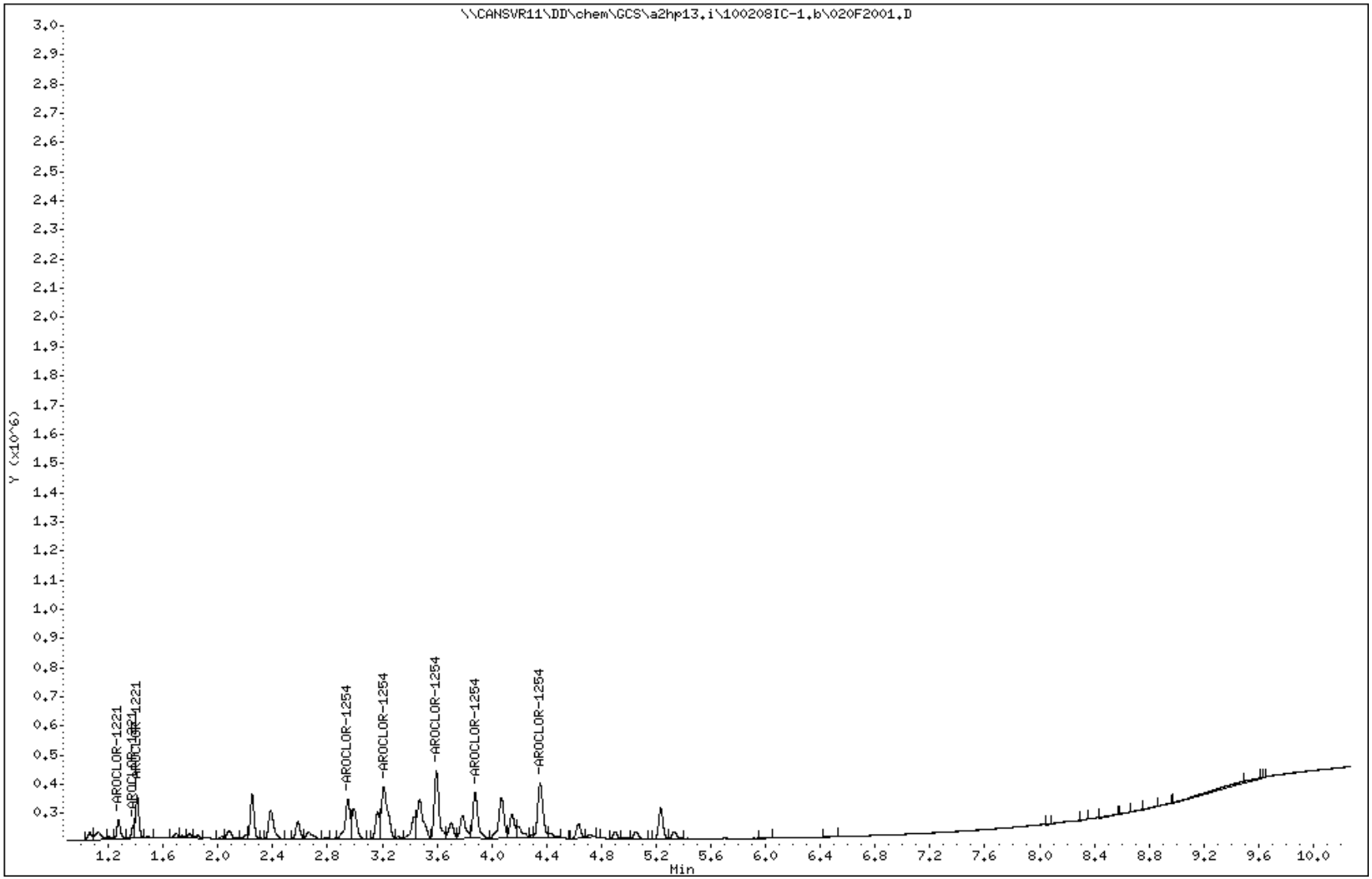
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 20:36
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,1
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 20 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.948	2.951	-0.003	135822	0.05000	0.05856	75.00- 125.00	100.00
3.211	3.213	-0.002	178586	0.05000	0.05870	98.18- 163.63	131.49
3.595	3.597	-0.002	231015	0.05000	0.05659	132.08- 220.13	170.09
3.880	3.881	-0.001	156155	0.05000	0.05541	89.69- 149.48	114.97
4.352	4.354	-0.002	186311	0.05000	0.05506	107.68- 179.46	137.17
		Average of Peak Amounts =			0.05686		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	65347	0.05000	0.05316	75.00- 125.00	100.00
1.380	1.391	-0.011	42412	0.05000	0.05299	49.63- 82.71	64.90
1.410	1.412	-0.002	145084	0.05000	0.05276	164.10- 273.51	222.02
		Average of Peak Amounts =			0.05297		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
Date : 08-FEB-2010 20:36
Client ID:
Sample Info: 1254,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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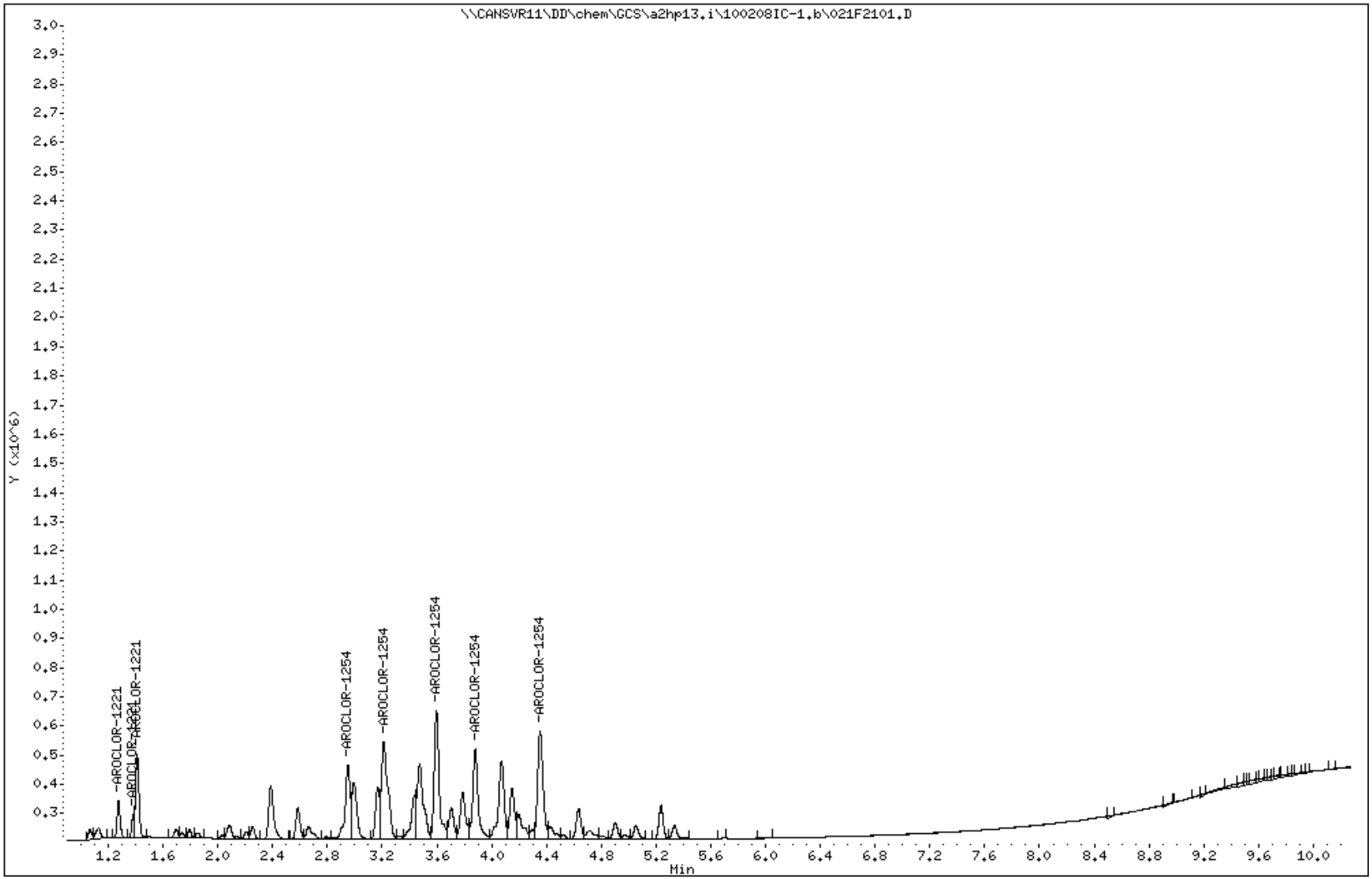
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 20:52
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,2
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 21 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	252847	0.10000	0.1090	75.00- 125.00	100.00
3.211	3.213	-0.002	332623	0.10000	0.1093	98.18- 163.63	131.55
3.596	3.597	-0.001	437608	0.10000	0.1072	132.08- 220.13	173.07
3.880	3.881	-0.001	306740	0.10000	0.1088	89.69- 149.48	121.31
4.353	4.354	-0.001	367484	0.10000	0.1086	107.68- 179.46	145.34
		Average of Peak Amounts =			0.10858		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	126128	0.10000	0.1026	75.00- 125.00	100.00
1.382	1.391	-0.009	79401	0.10000	0.09921	49.63- 82.71	62.95
1.411	1.412	-0.001	286292	0.10000	0.1041	164.10- 273.51	226.99
		Average of Peak Amounts =			0.10197		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
Date : 08-FEB-2010 20:52
Client ID:
Sample Info: 1254,,1,2
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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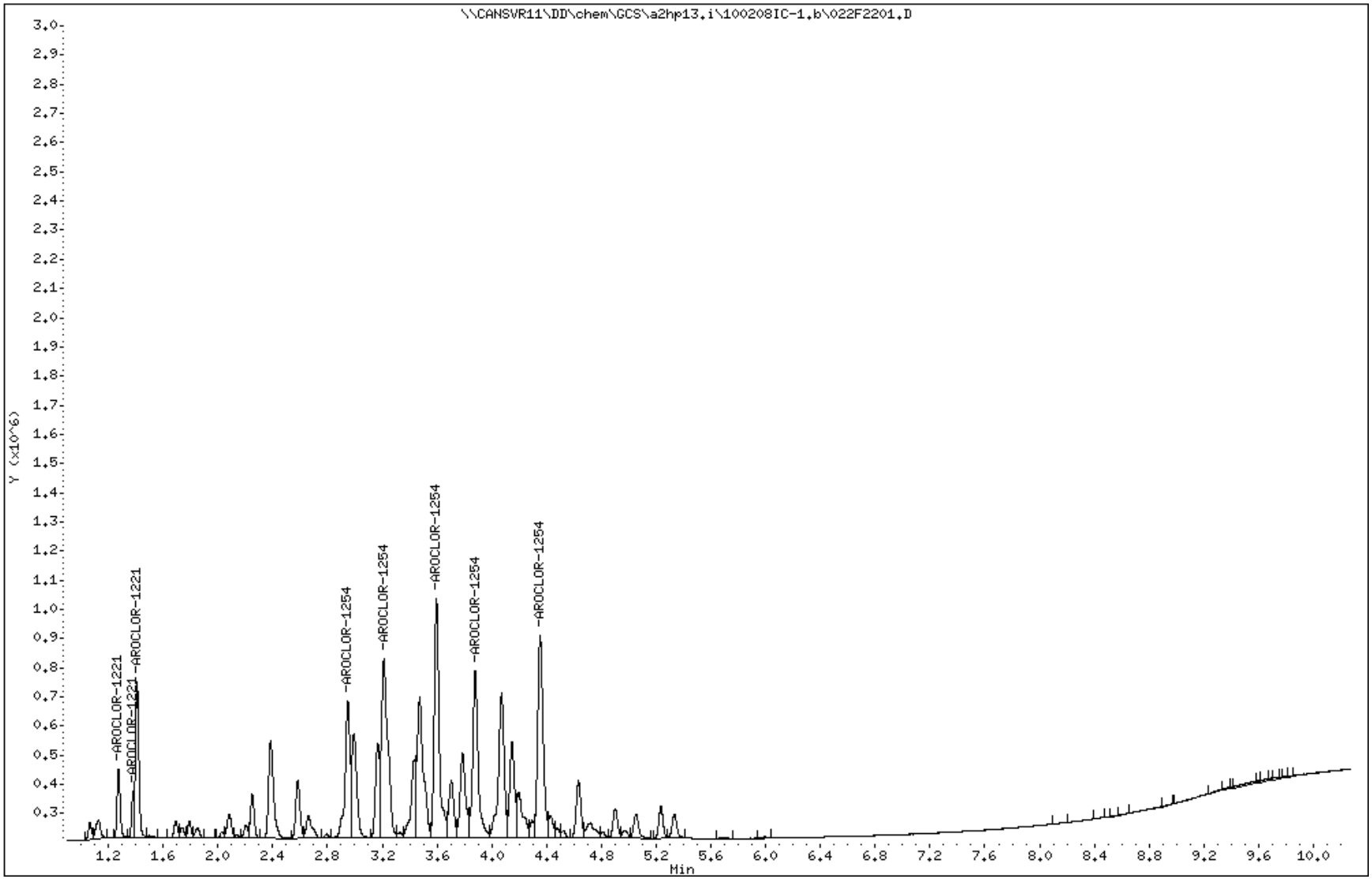
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:07
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,3
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 22 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	466592	0.20000	0.2012	75.00- 125.00	100.00
3.211	3.213	-0.002	612539	0.20000	0.2013	98.18- 163.63	131.28
3.595	3.597	-0.002	819107	0.20000	0.2007	132.08- 220.13	175.55
3.879	3.881	-0.002	570418	0.20000	0.2024	89.69- 149.48	122.25
4.353	4.354	-0.001	694495	0.20000	0.2052	107.68- 179.46	148.84
	Average of Peak Amounts =				0.20216		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	235833	0.20000	0.1918	75.00- 125.00	100.00
1.381	1.391	-0.010	156993	0.20000	0.1962	49.63- 82.71	66.57
1.410	1.412	-0.002	534783	0.20000	0.1945	164.10- 273.51	226.76
	Average of Peak Amounts =				0.19417		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
Date : 08-FEB-2010 21:07
Client ID:
Sample Info: 1254,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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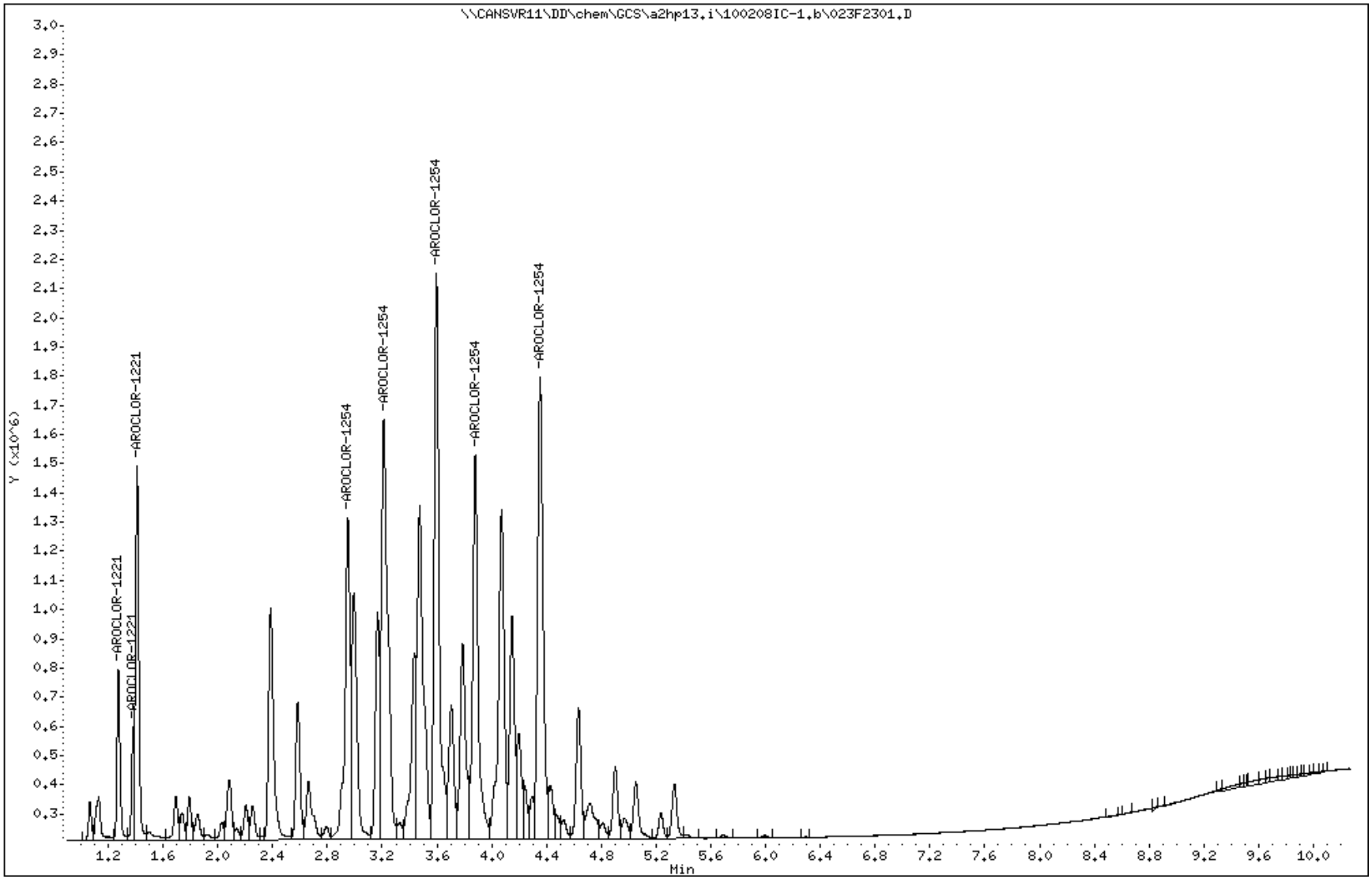
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:21
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,4
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 23 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	1100653	0.50000	0.4746	75.00- 125.00	100.00
3.211	3.213	-0.002	1440822	0.50000	0.4736	98.18- 163.63	130.91
3.596	3.597	-0.001	1938328	0.50000	0.4748	132.08- 220.13	176.11
3.880	3.881	-0.001	1316213	0.50000	0.4671	89.69- 149.48	119.58
4.353	4.354	-0.001	1580187	0.50000	0.4670	107.68- 179.46	143.57
		Average of Peak Amounts =			0.47142		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	584948	0.50000	0.4758	75.00- 125.00	100.00
1.381	1.391	-0.010	387055	0.50000	0.4836	49.63- 82.71	66.17
1.410	1.412	-0.002	1279897	0.50000	0.4655	164.10- 273.51	218.81
		Average of Peak Amounts =			0.47497		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
Date : 08-FEB-2010 21:21
Client ID:
Sample Info: 1254,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:36
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,5
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 24 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

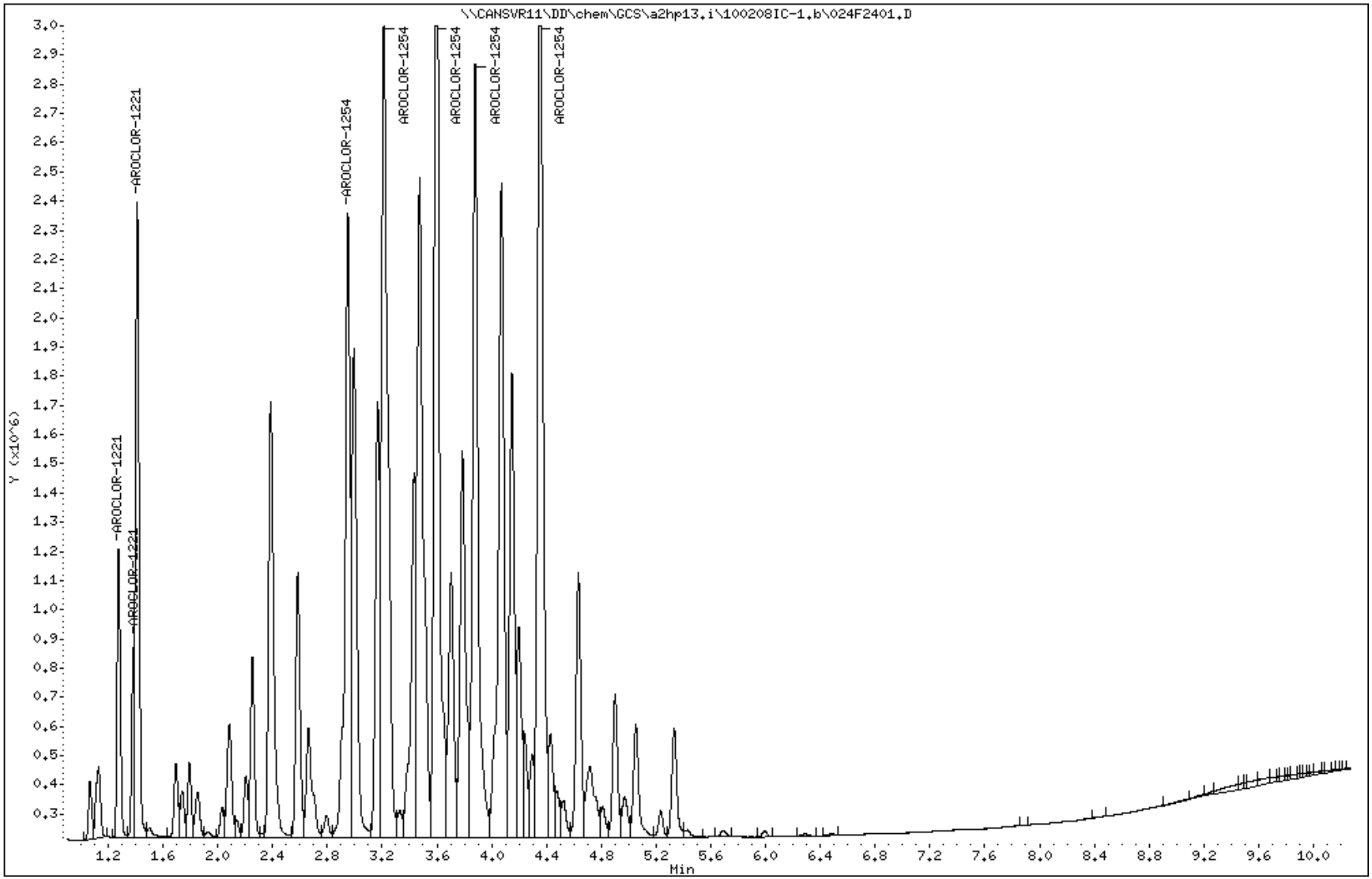
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	2139507	1.00000	0.9225	75.00- 125.00	100.00
3.212	3.213	-0.001	2809567	1.00000	0.9235	98.18- 163.63	131.32
3.596	3.597	-0.001	3849058	1.00000	0.9429	132.08- 220.13	179.90
3.879	3.881	-0.002	2649791	1.00000	0.9403	89.69- 149.48	123.85
4.353	4.354	-0.001	3181404	1.00000	0.9402	107.68- 179.46	148.70
		Average of Peak Amounts =			0.93388		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	989175	1.00000	0.8374	75.00- 125.00	100.00(M)
1.389	1.391	-0.002	668032	1.00000	0.8632	49.63- 82.71	67.53
1.411	1.412	-0.001	2174478	1.00000	0.8254	164.10- 273.51	219.83
		Average of Peak Amounts =			0.84200		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
Date : 08-FEB-2010 21:36
Client ID:
Sample Info: 1254,,1,5
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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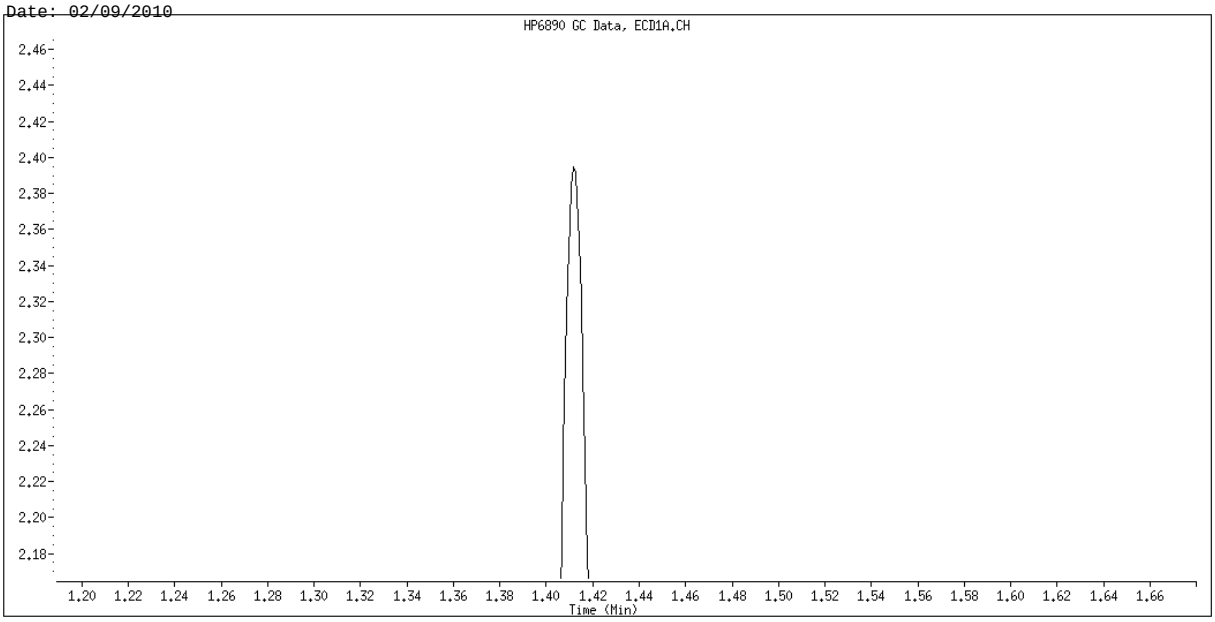
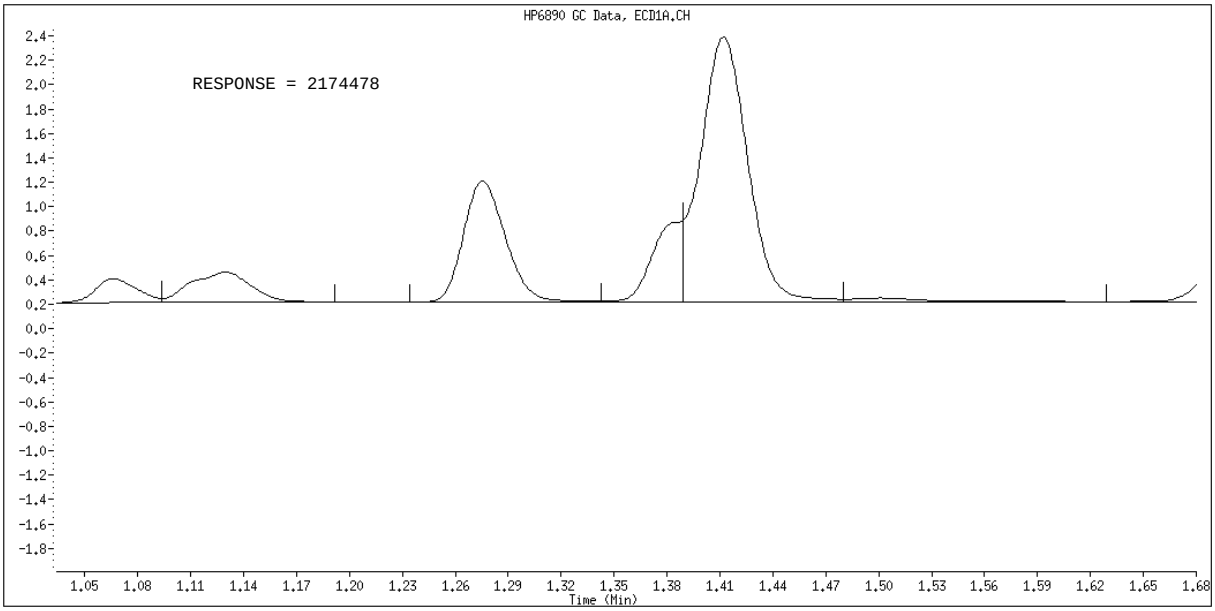
North Canton

Data File Name: 024F2401.D
Inj. Date and Time: 08-FEB-2010 21:36
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:52
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,6
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 25 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

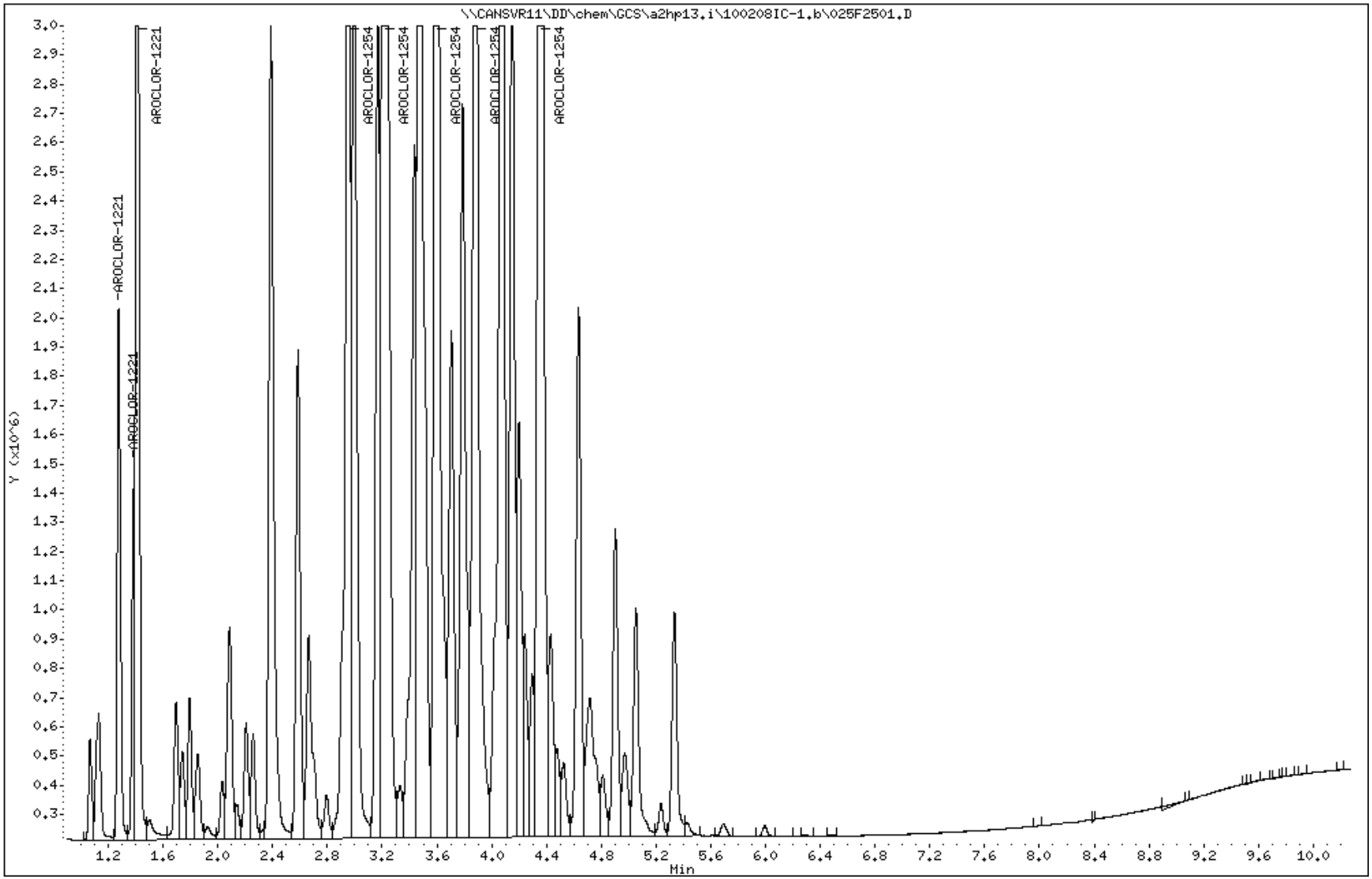
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.951	2.951	0.000	3993114	2.00000	1.722	75.00- 125.00	100.00
3.213	3.213	0.000	5202748	2.00000	1.710	98.18- 163.63	130.29
3.597	3.597	0.000	7349171	2.00000	1.800	132.08- 220.13	184.05
3.881	3.881	0.000	5165624	2.00000	1.833	89.69- 149.48	129.36
4.354	4.354	0.000	6173201	2.00000	1.824	107.68- 179.46	154.60
	Average of Peak Amounts =				1.77780		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.276	1.276	0.000	1819592	2.00000	1.602	75.00- 125.00	100.00(M)
1.391	1.391	0.000	1279813	2.00000	1.703	49.63- 82.71	70.34
1.412	1.412	0.000	3890421	2.00000	1.544	164.10- 273.51	213.81
	Average of Peak Amounts =				1.61633		

QC Flag Legend

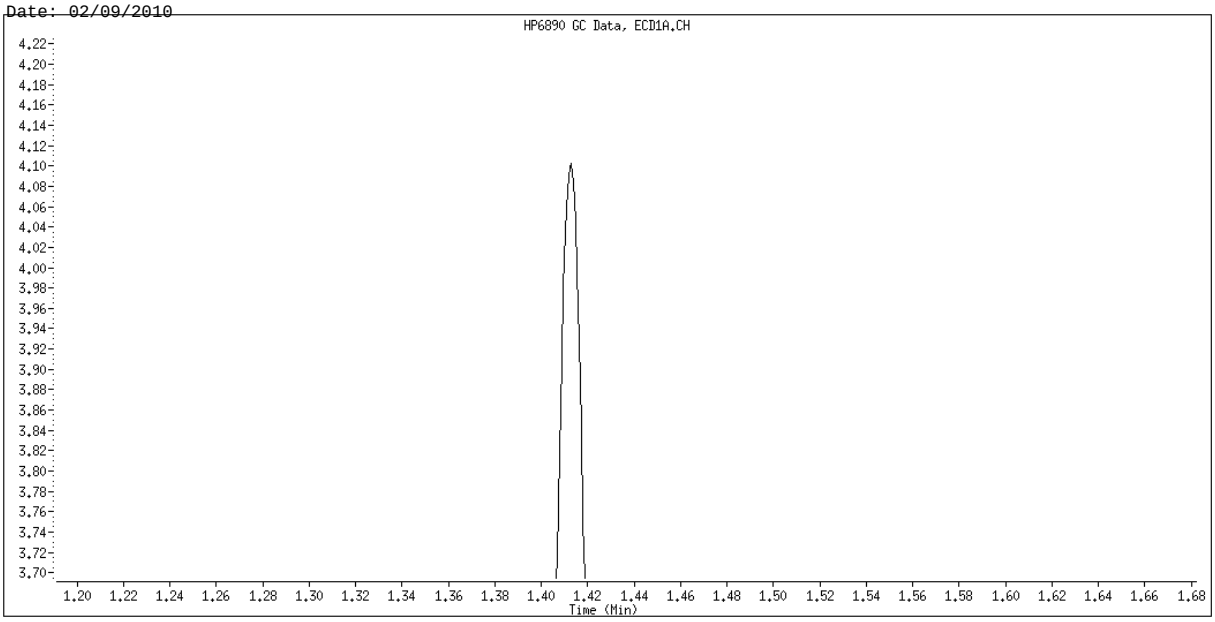
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
Date : 08-FEB-2010 21:52
Client ID:
Sample Info: 1254,,1,6

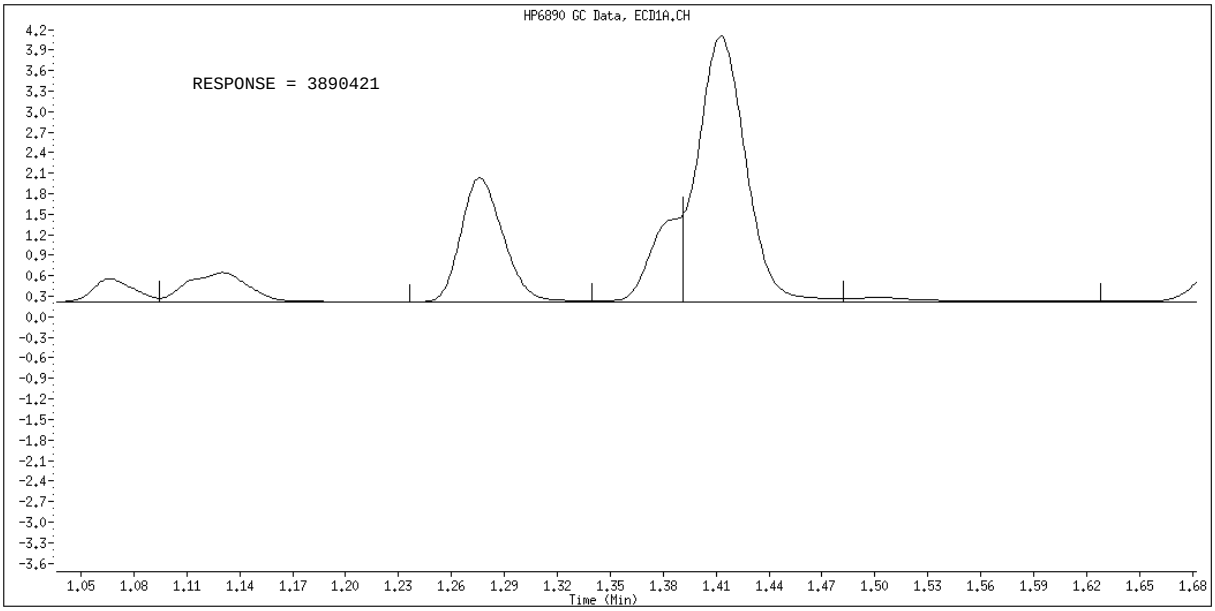
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 025F2501.D
Inj. Date and Time: 08-FEB-2010 21:52
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

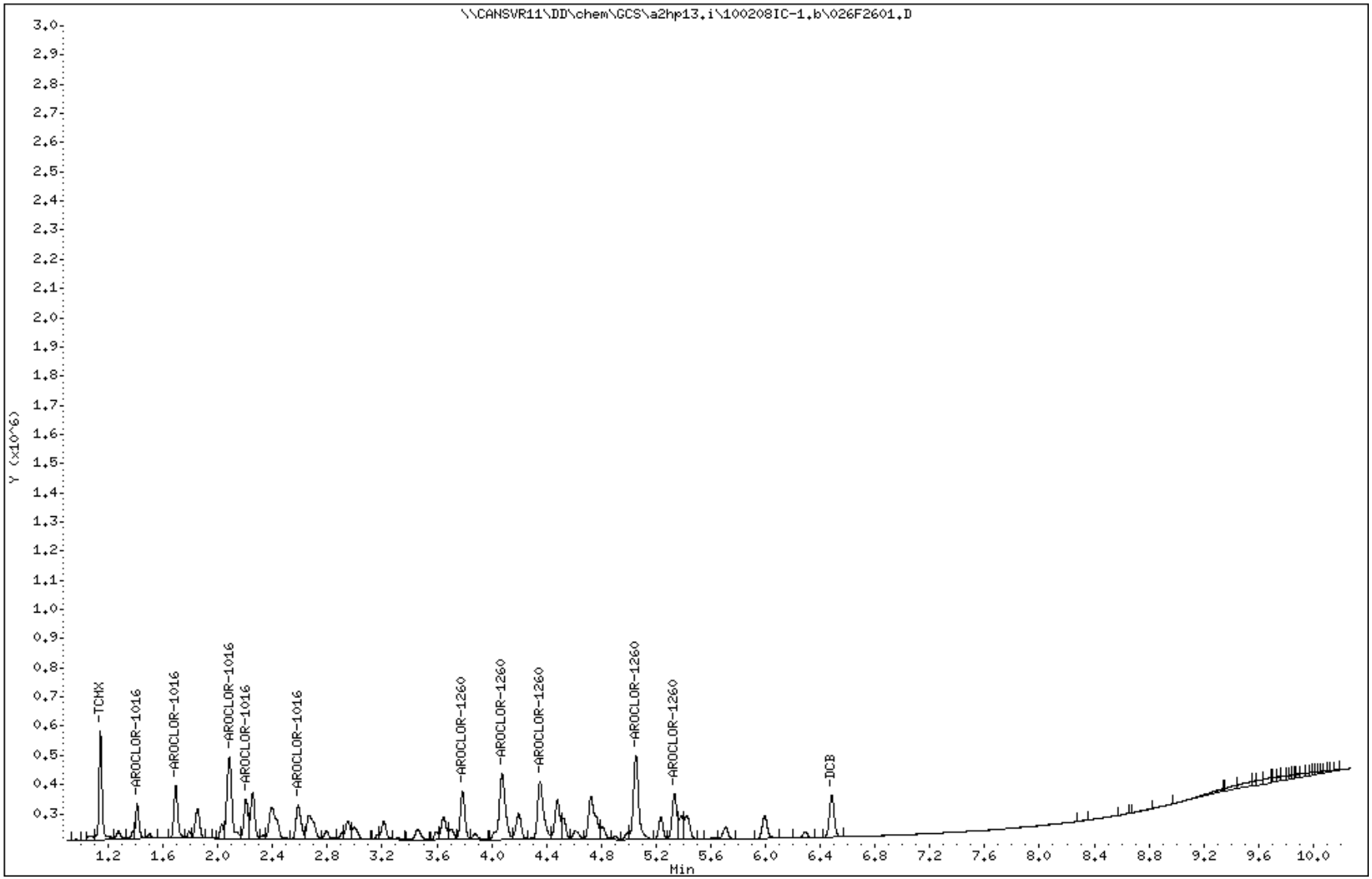
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:07
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,1
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 26 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.142	1.144	-0.002	370534	0.00250	0.002982		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.411	1.419	-0.008	205324	0.05000	0.05773	80.00- 120.00	100.00
1.692	1.703	-0.011	351930	0.05000	0.05718	118.89- 198.15	171.40
2.084	2.095	-0.011	701292	0.05000	0.05403	250.35- 417.24	341.55
2.205	2.217	-0.012	286467	0.05000	0.05379	104.90- 174.84	139.52
2.586	2.599	-0.013	286259	0.05000	0.05398	107.74- 179.57	139.42
	Average of Peak Amounts =				0.05534		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.786	3.800	-0.014	160830	0.05000	0.05328	80.00- 120.00	100.00
4.074	4.088	-0.014	223463	0.05000	0.05287	103.77- 172.95	138.94
4.353	4.366	-0.013	197363	0.05000	0.05125	95.99- 159.98	122.72
5.054	5.066	-0.012	285880	0.05000	0.04966	151.41- 252.34	177.75
5.334	5.346	-0.012	152897	0.05000	0.04986	81.94- 136.57	95.07
	Average of Peak Amounts =				0.05138		
$ 9 DCB					CAS #: 2051-24-3		
6.482	6.483	-0.001	142510	0.00250	0.002569		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
Date : 08-FEB-2010 22:07
Client ID:
Sample Info: 1660,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:21
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,2
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 27 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

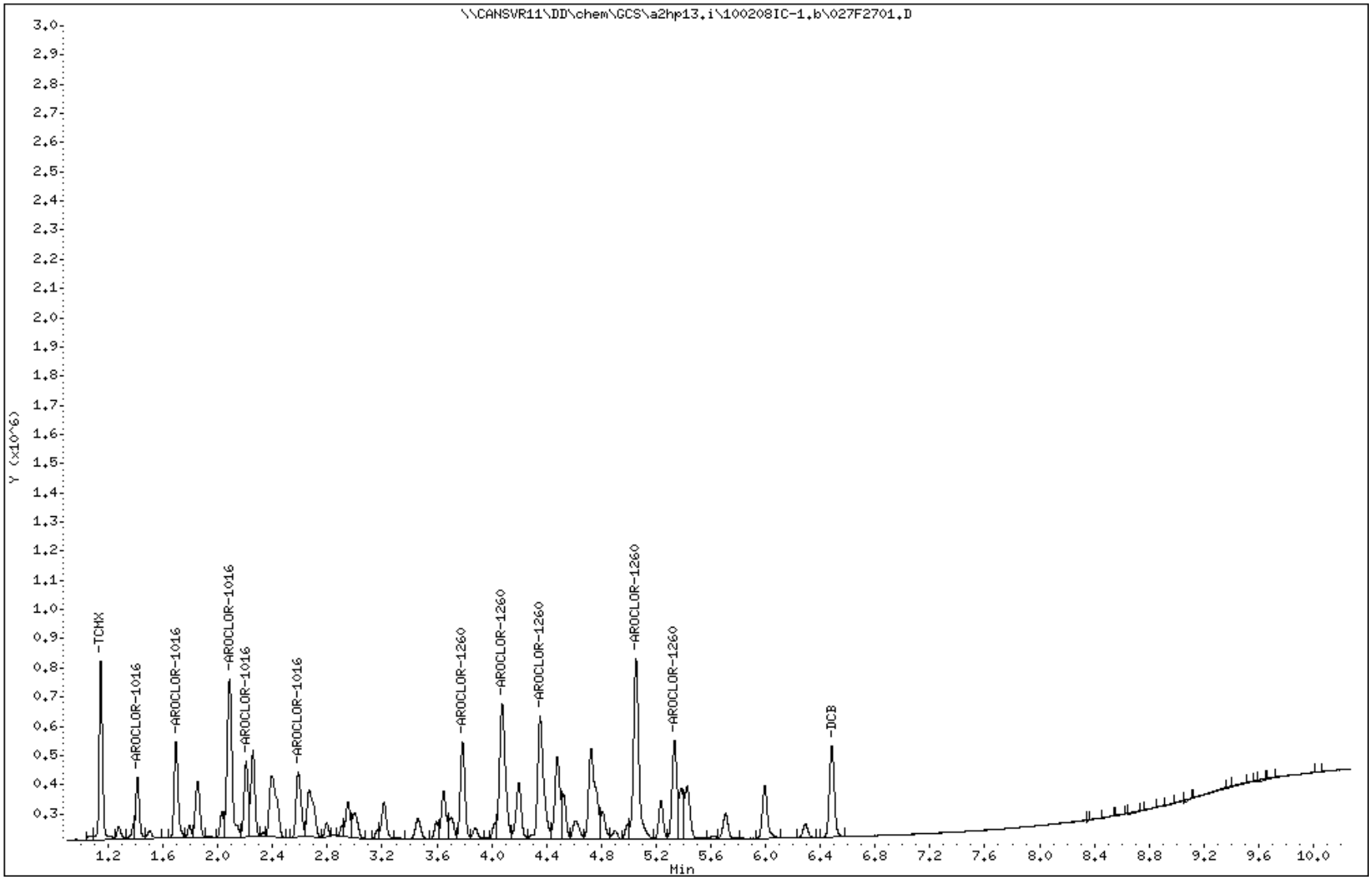
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	613205	0.00500	0.004936		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.419	-0.007	397550	0.10000	0.1118	80.00- 120.00	100.00(M)
1.694	1.703	-0.009	668730	0.10000	0.1086	118.89- 198.15	168.21
2.085	2.095	-0.010	1381552	0.10000	0.1064	250.35- 417.24	347.52
2.206	2.217	-0.011	545991	0.10000	0.1025	104.90- 174.84	137.34
2.586	2.599	-0.013	557809	0.10000	0.1052	107.74- 179.57	140.31
	Average of Peak Amounts =				0.10690		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.800	-0.013	331496	0.10000	0.1098	80.00- 120.00	100.00
4.075	4.088	-0.013	463528	0.10000	0.1097	103.77- 172.95	139.83
4.353	4.366	-0.013	419169	0.10000	0.1088	95.99- 159.98	126.45
5.053	5.066	-0.013	618323	0.10000	0.1074	151.41- 252.34	186.53
5.335	5.346	-0.011	334119	0.10000	0.1090	81.94- 136.57	100.79
	Average of Peak Amounts =				0.10894		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	310216	0.00500	0.005592		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
Date : 08-FEB-2010 22:21
Client ID:
Sample Info: 1660,,1,2
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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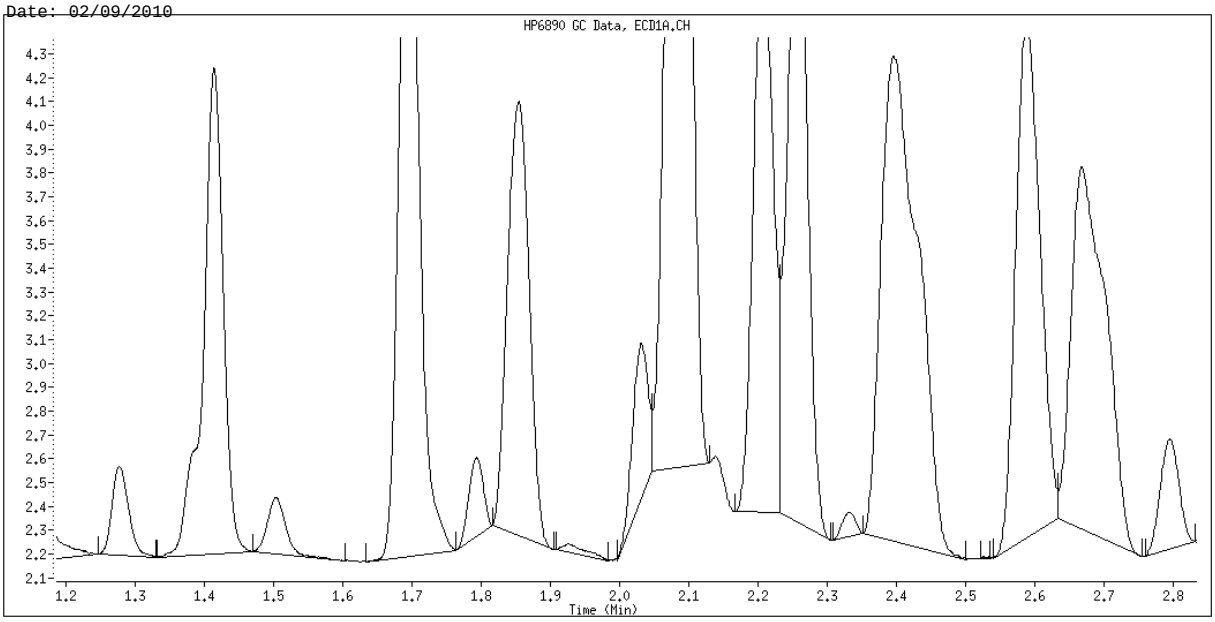
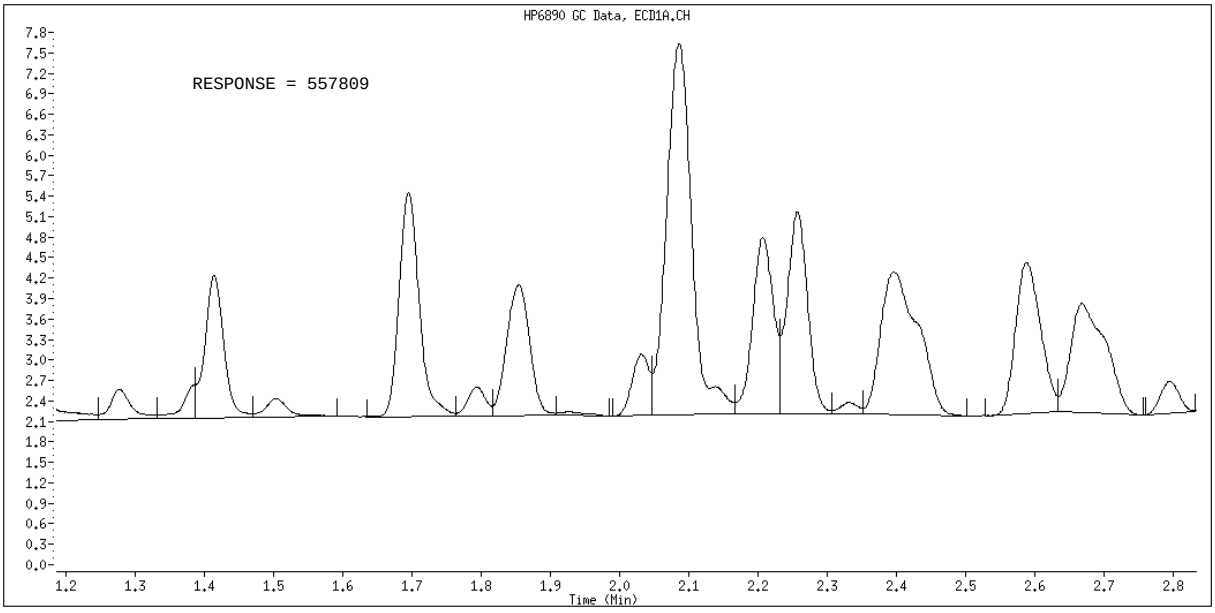
North Canton

Data File Name: 027F2701.D
Inj. Date and Time: 08-FEB-2010 22:21
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:36
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,3
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 28 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

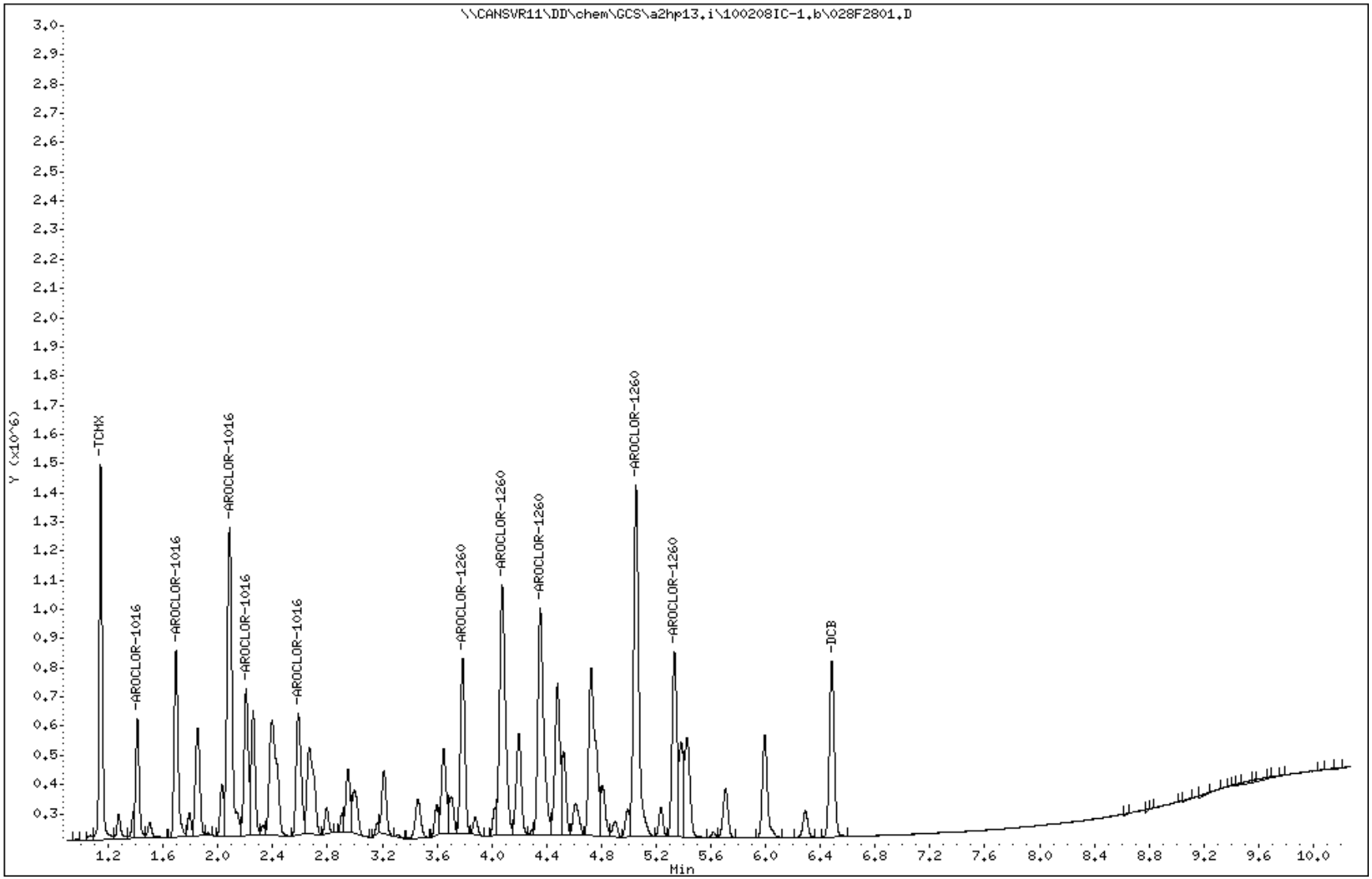
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.143	1.144	-0.001	1286875	0.01000	0.01036		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.413	-0.001	745574	0.20000	0.2006	80.00- 120.00	100.00(M)
1.693	1.694	-0.001	1276893	0.20000	0.2075	143.75- 239.59	171.26
2.085	2.086	-0.001	2694003	0.20000	0.2076	299.95- 499.92	361.33
2.205	2.207	-0.002	1090459	0.20000	0.2047	122.54- 204.23	146.26
2.586	2.588	-0.002	1052194	0.20000	0.1984	130.89- 218.15	141.13
		Average of Peak Amounts =			0.20376		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.789	-0.002	602812	0.20000	0.1997	80.00- 120.00	100.00
4.075	4.077	-0.002	853453	0.20000	0.2019	105.37- 175.62	141.58
4.353	4.355	-0.002	777892	0.20000	0.2020	97.55- 162.58	129.04
5.054	5.054	0.000	1201658	0.20000	0.2087	154.28- 257.13	199.34
5.333	5.336	-0.003	635642	0.20000	0.2073	84.36- 140.61	105.45
		Average of Peak Amounts =			0.20392		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	600816	0.01000	0.01083		

QC Flag Legend

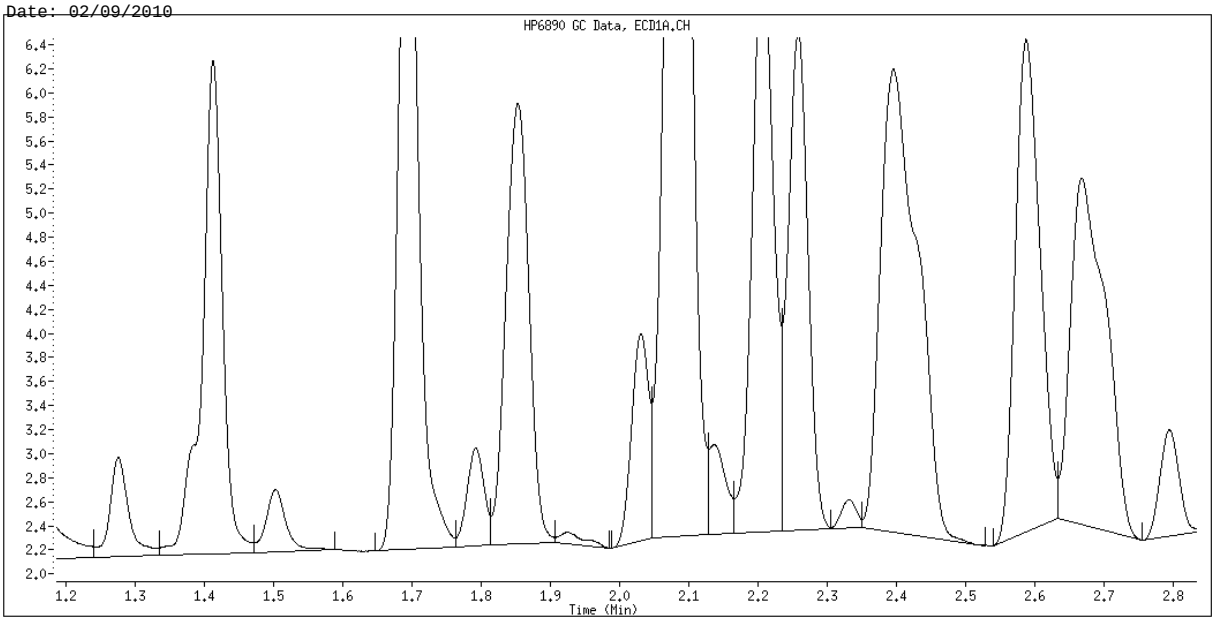
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
Date : 08-FEB-2010 22:36
Client ID:
Sample Info: 1660,,1,3
Column phase: restek pest clpI

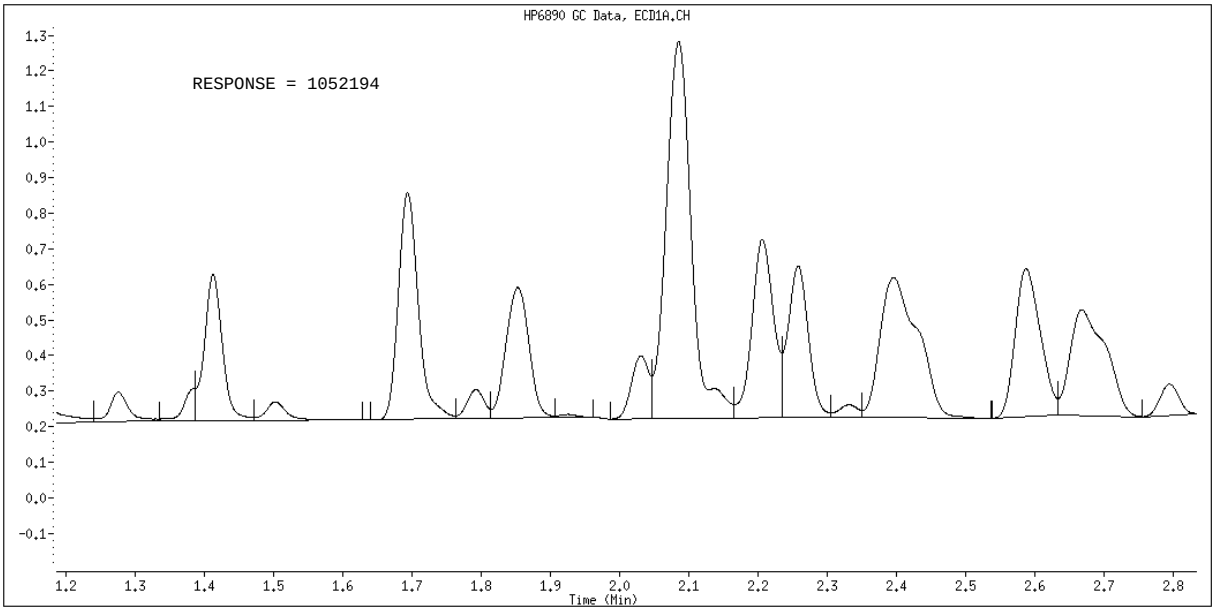
Instrument: a2hp13.i
Operator:
Column diameter: 0.53



Data File Name: 028F2801.D
Inj. Date and Time: 08-FEB-2010 22:36
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:52
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,4
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 29 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

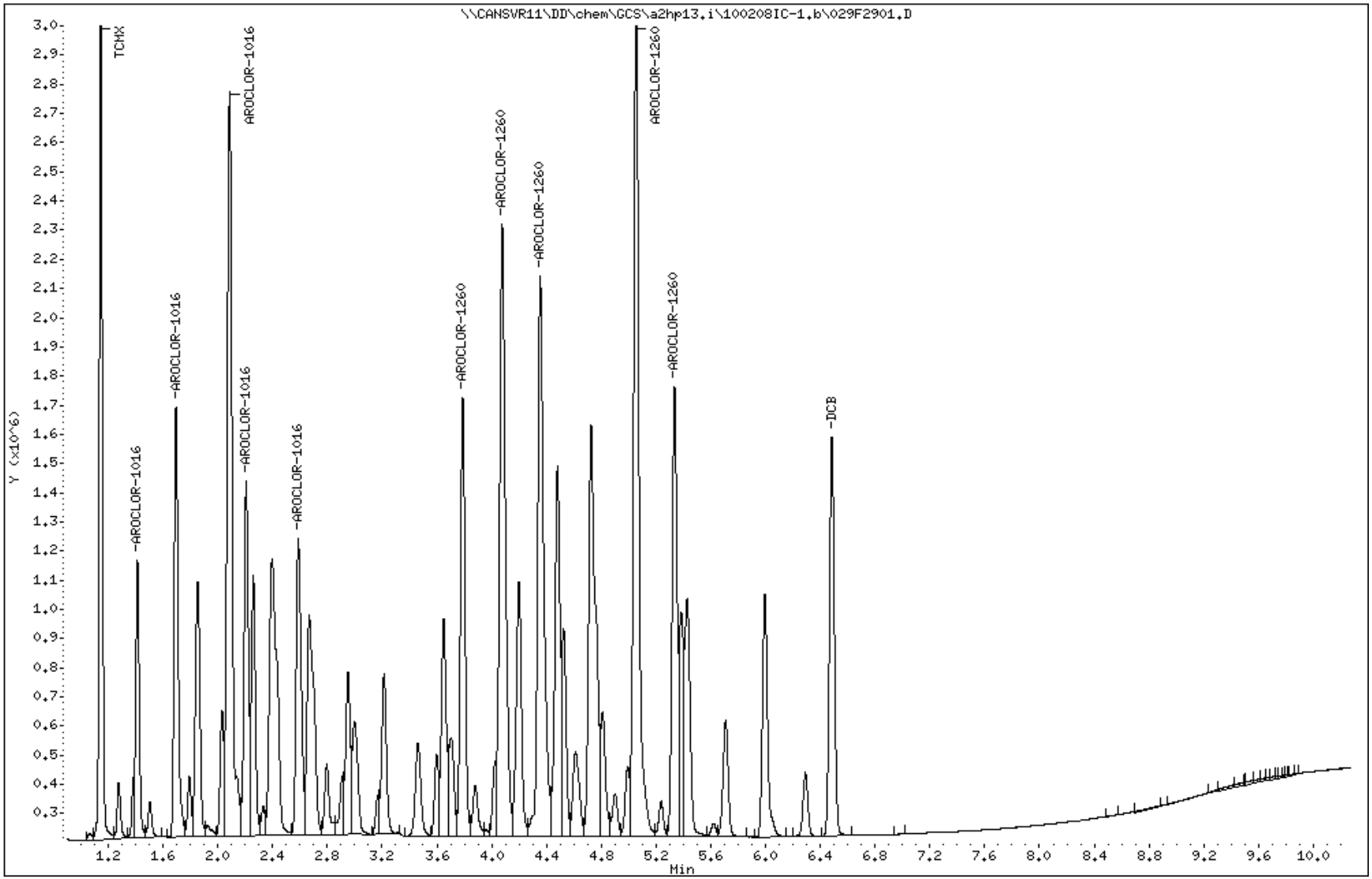
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	2946075	0.02500	0.02371		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.413	1.419	-0.006	1704759	0.50000	0.4793	80.00- 120.00	100.00(M)
1.694	1.703	-0.009	3000570	0.50000	0.4875	118.89- 198.15	176.01
2.085	2.095	-0.010	6536061	0.50000	0.5036	250.35- 417.24	383.40
2.206	2.217	-0.011	2666709	0.50000	0.5007	104.90- 174.84	156.43
2.588	2.599	-0.011	2633951	0.50000	0.4966	107.74- 179.57	154.51
	Average of Peak Amounts =				0.49354		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.789	3.800	-0.011	1504383	0.50000	0.4984	80.00- 120.00	100.00
4.076	4.088	-0.012	2098213	0.50000	0.4964	103.77- 172.95	139.47
4.354	4.366	-0.012	1920999	0.50000	0.4988	95.99- 159.98	127.69
5.054	5.066	-0.012	2920852	0.50000	0.5073	151.41- 252.34	194.16
5.335	5.346	-0.011	1541704	0.50000	0.5028	81.94- 136.57	102.48
	Average of Peak Amounts =				0.50074		
$ 9 DCB					CAS #: 2051-24-3		
6.484	6.483	0.001	1365386	0.02500	0.02461		

QC Flag Legend

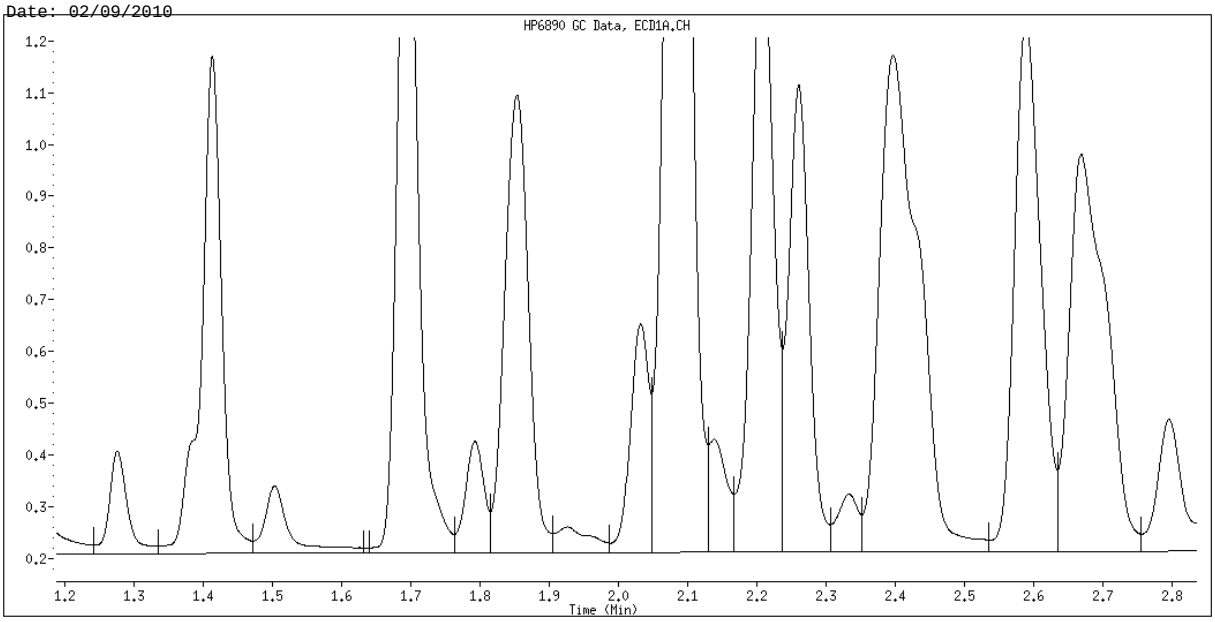
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
Date : 08-FEB-2010 22:52
Client ID:
Sample Info: 1660,,1,4

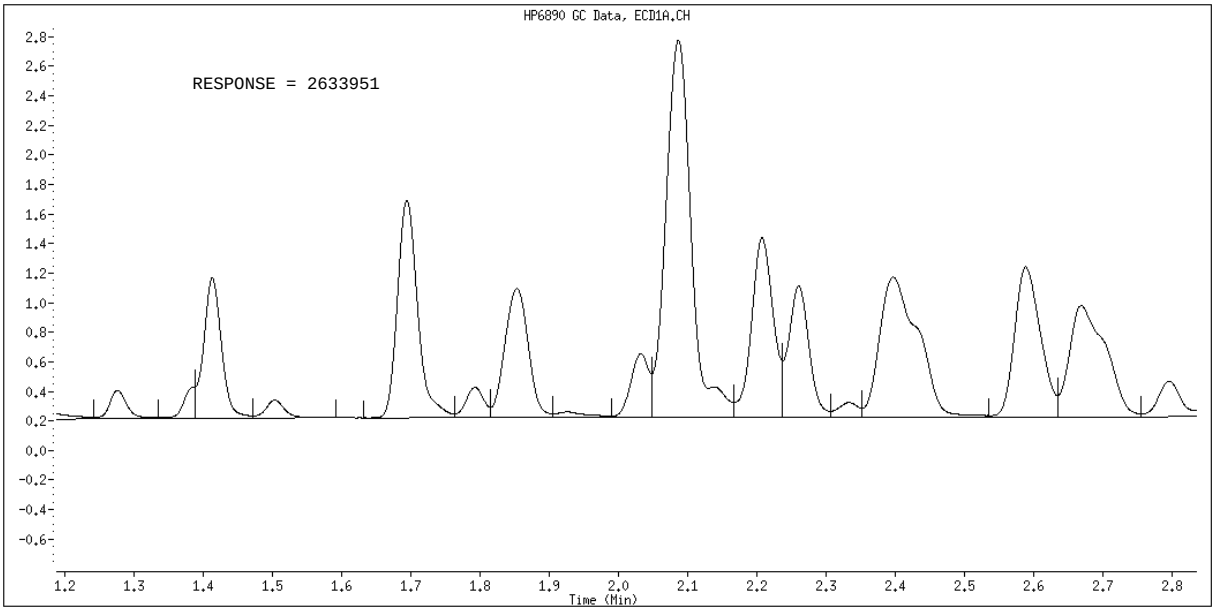
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 029F2901.D
Inj. Date and Time: 08-FEB-2010 22:52
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 23:07
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,5
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 30 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

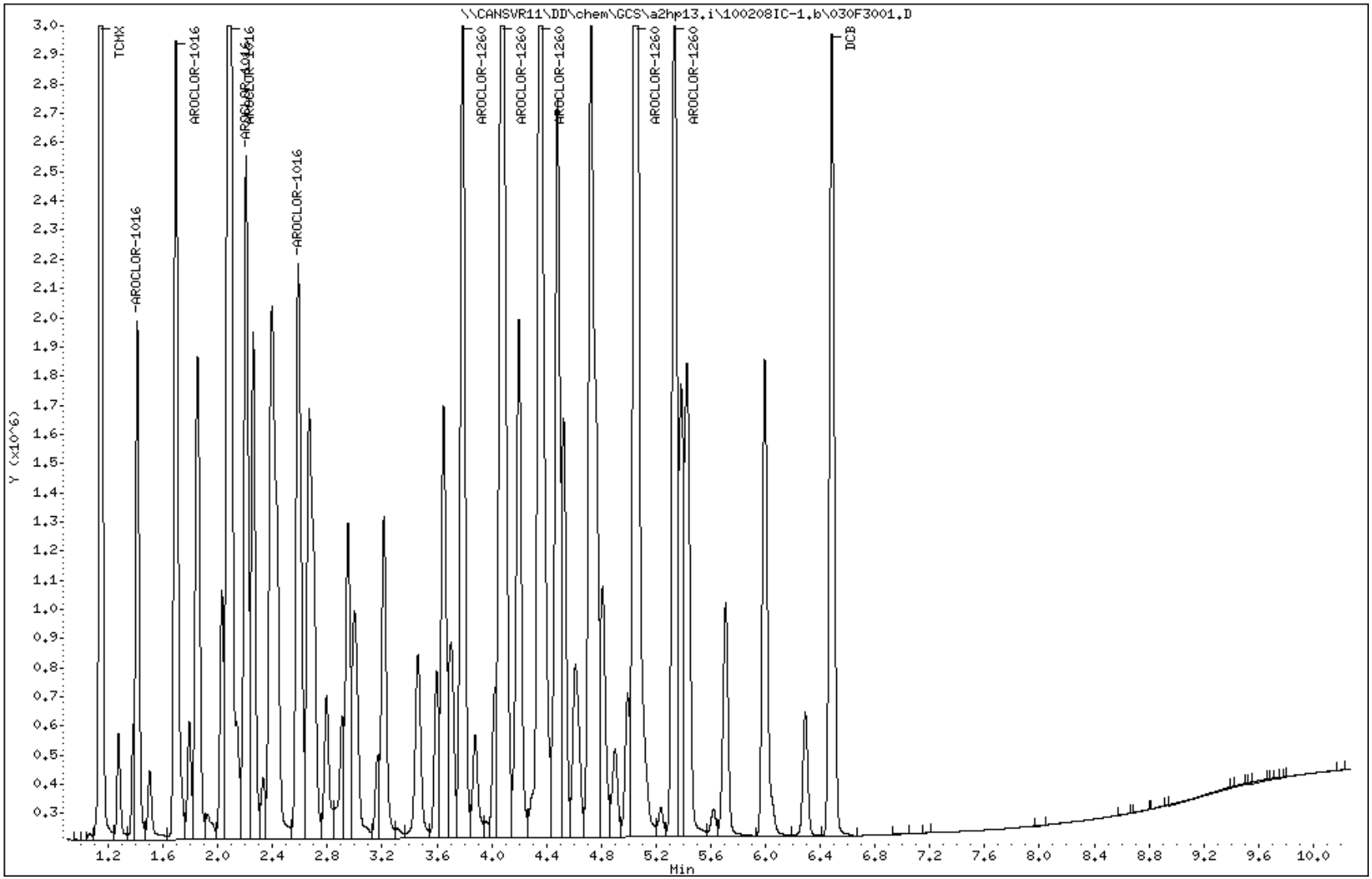
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	5775199	0.05000	0.04649		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.413	-0.001	3191408	1.00000	0.8973	80.00- 120.00	100.00(M)
1.693	1.694	-0.001	5678041	1.00000	0.9226	143.75- 239.59	177.92
2.084	2.086	-0.002	12630703	1.00000	0.9732	299.95- 499.92	395.77
2.206	2.207	-0.001	5176357	1.00000	0.9719	122.54- 204.23	162.20
2.588	2.588	0.000	5179034	1.00000	0.9765	130.89- 218.15	162.28
Average of Peak Amounts =					0.94830		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.788	3.789	-0.001	2930328	1.00000	0.9708	80.00- 120.00	100.00
4.075	4.077	-0.002	4152767	1.00000	0.9826	105.37- 175.62	141.72
4.354	4.355	-0.001	3851293	1.00000	1.000	97.55- 162.58	131.43
5.054	5.054	0.000	5808119	1.00000	1.009	154.28- 257.13	198.21
5.334	5.336	-0.002	3085732	1.00000	1.006	84.36- 140.61	105.30
Average of Peak Amounts =					0.99368		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	2748454	0.05000	0.04955		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
Date : 08-FEB-2010 23:07
Client ID:
Sample Info: 1660,,1,5

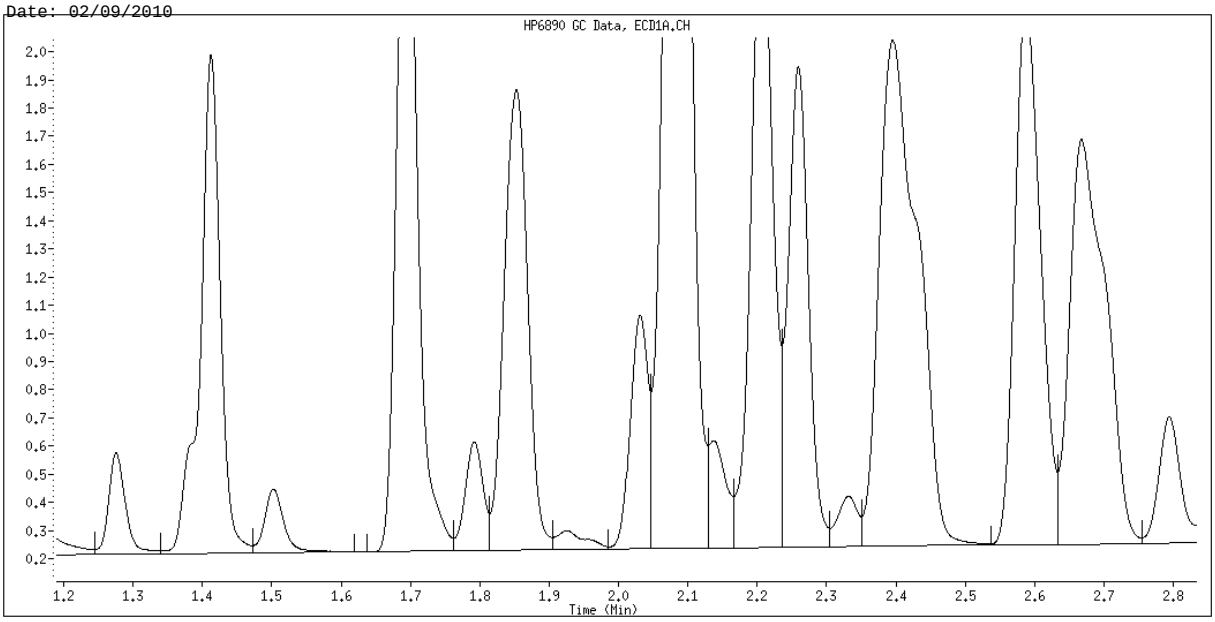
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



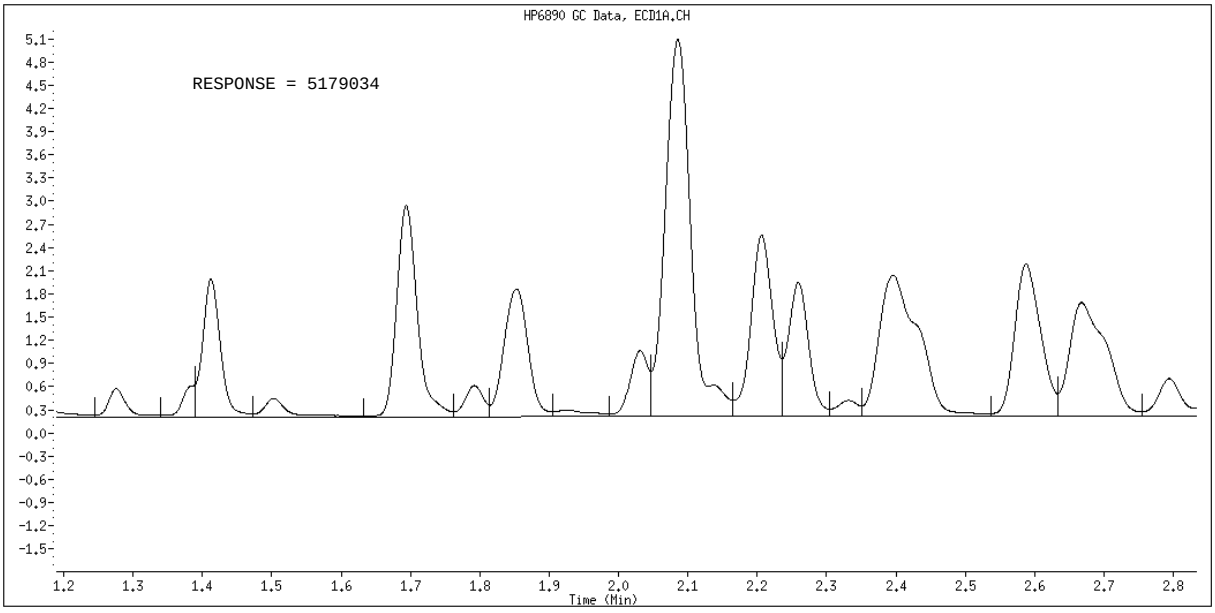
1017

North Canton

Data File Name: 030F3001.D
Inj. Date and Time: 08-FEB-2010 23:07
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

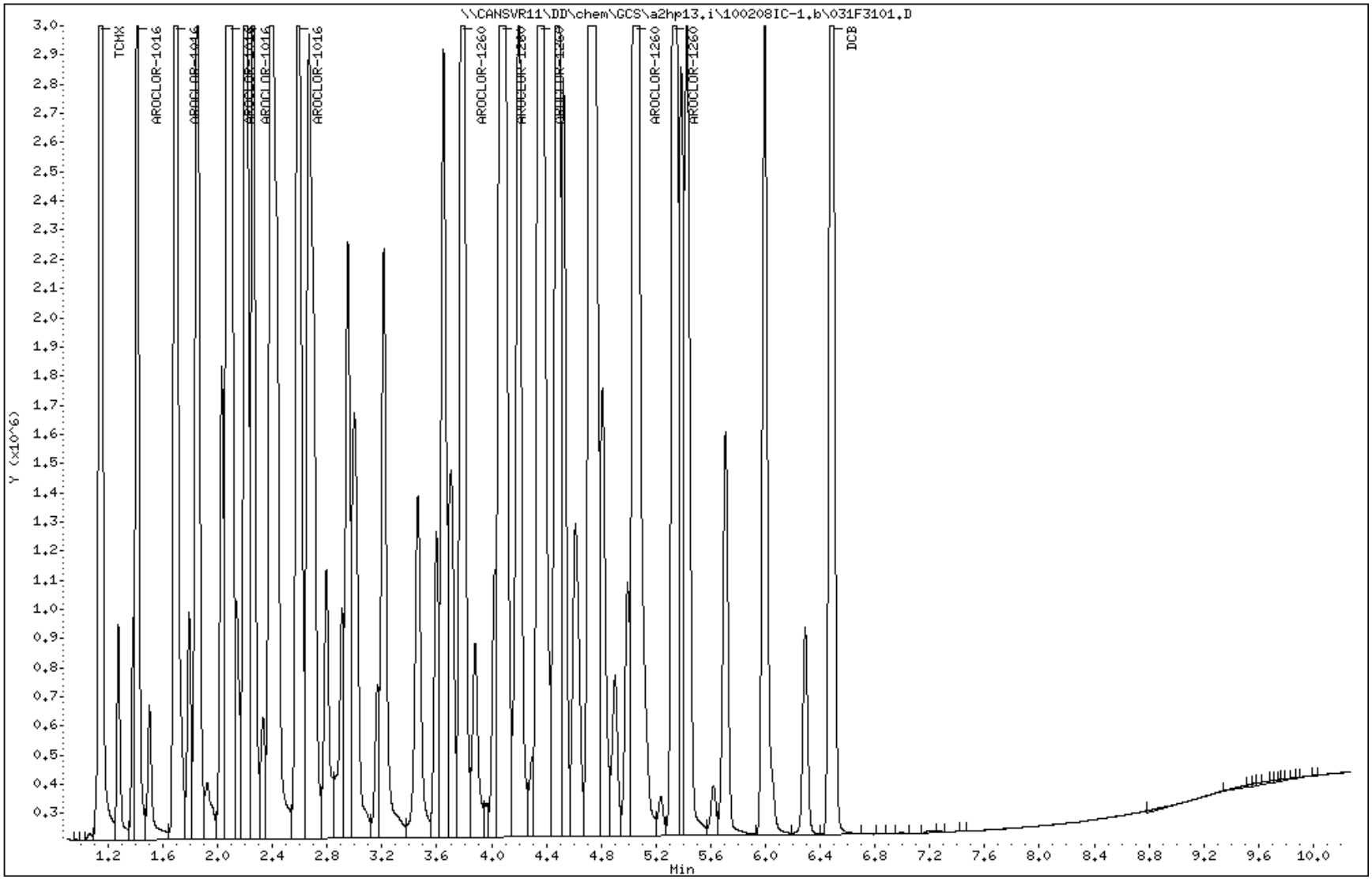
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 23:21
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,6
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 31 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.143	1.144	-0.001	11251198	0.10000	0.09056		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.411	1.419	-0.008	5856334	2.00000	1.647	80.00- 120.00	100.00
1.692	1.703	-0.011	10274046	2.00000	1.669	118.89- 198.15	175.43
2.084	2.095	-0.011	21717964	2.00000	1.673	250.35- 417.24	370.85
2.204	2.217	-0.013	9608926	2.00000	1.804	104.90- 174.84	164.08
2.586	2.599	-0.013	9619560	2.00000	1.814	107.74- 179.57	164.26
	Average of Peak Amounts =				1.72140		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.800	-0.013	5250564	2.00000	1.740	80.00- 120.00	100.00
4.075	4.088	-0.013	7275828	2.00000	1.721	103.77- 172.95	138.57
4.353	4.366	-0.013	6766760	2.00000	1.757	95.99- 159.98	128.88
5.054	5.066	-0.012	9969924	2.00000	1.732	151.41- 252.34	189.88
5.334	5.346	-0.012	5304446	2.00000	1.730	81.94- 136.57	101.03
	Average of Peak Amounts =				1.73600		
$ 9 DCB					CAS #: 2051-24-3		
6.484	6.483	0.001	4411722	0.10000	0.07953		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
Date : 08-FEB-2010 23:21
Client ID:
Sample Info: 1660,,1,6

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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PCB 8082/608

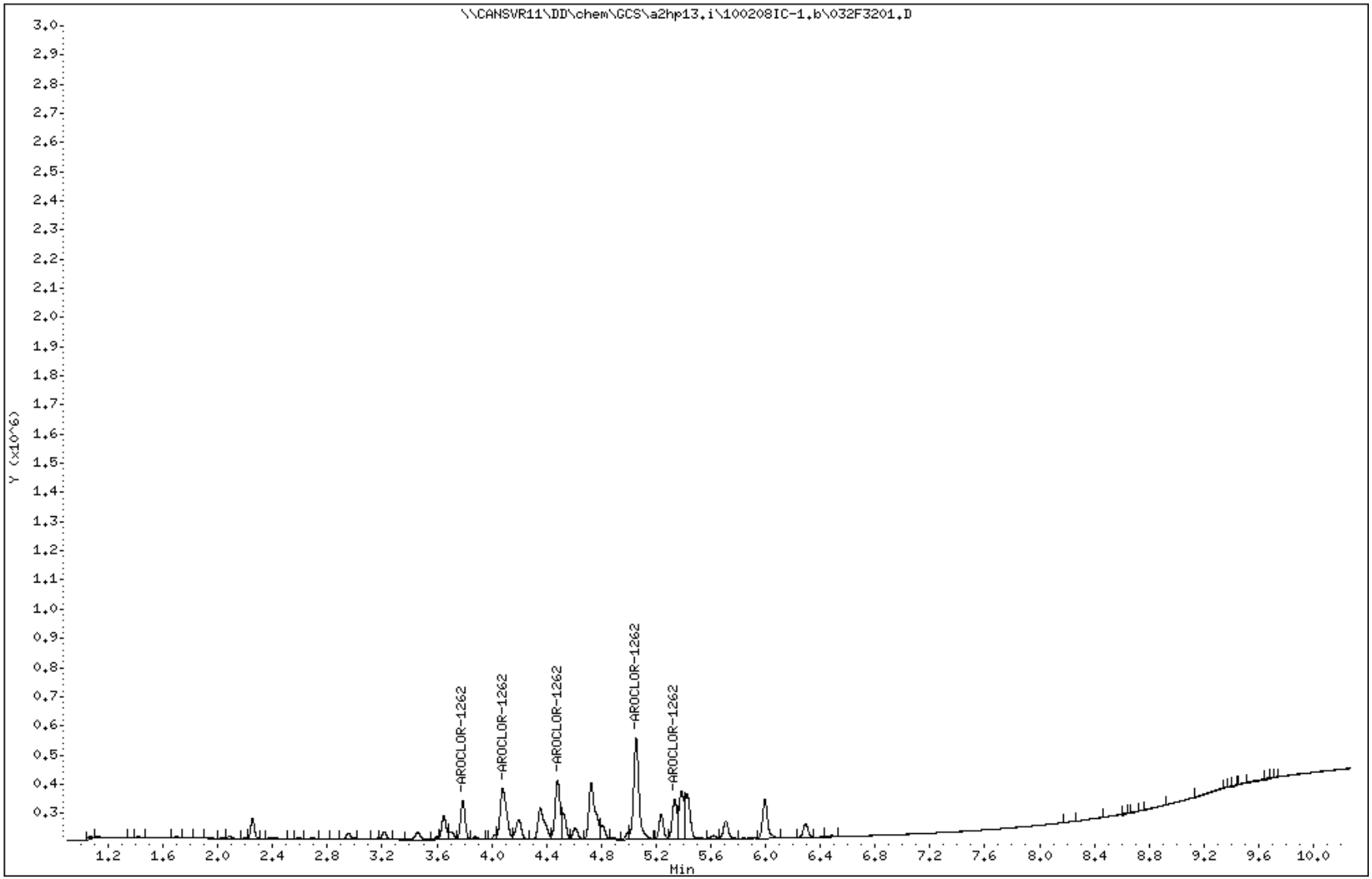
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
Lab Smp Id: 1262
Inj Date : 08-FEB-2010 23:37
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,1
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 32 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	132259	0.05000	0.05626	75.00- 125.00	100.00
4.078	4.079	-0.001	175323	0.05000	0.05636	98.90- 164.83	132.56
4.481	4.481	0.000	203044	0.05000	0.05590	115.68- 192.80	153.52
5.054	5.054	0.000	344431	0.05000	0.05392	208.14- 346.90	260.42
5.335	5.336	-0.001	135634	0.05000	0.05585	78.27- 130.46	102.55
		Average of Peak Amounts =			0.05566		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
Date : 08-FEB-2010 23:37
Client ID:
Sample Info: 1262,,1,1

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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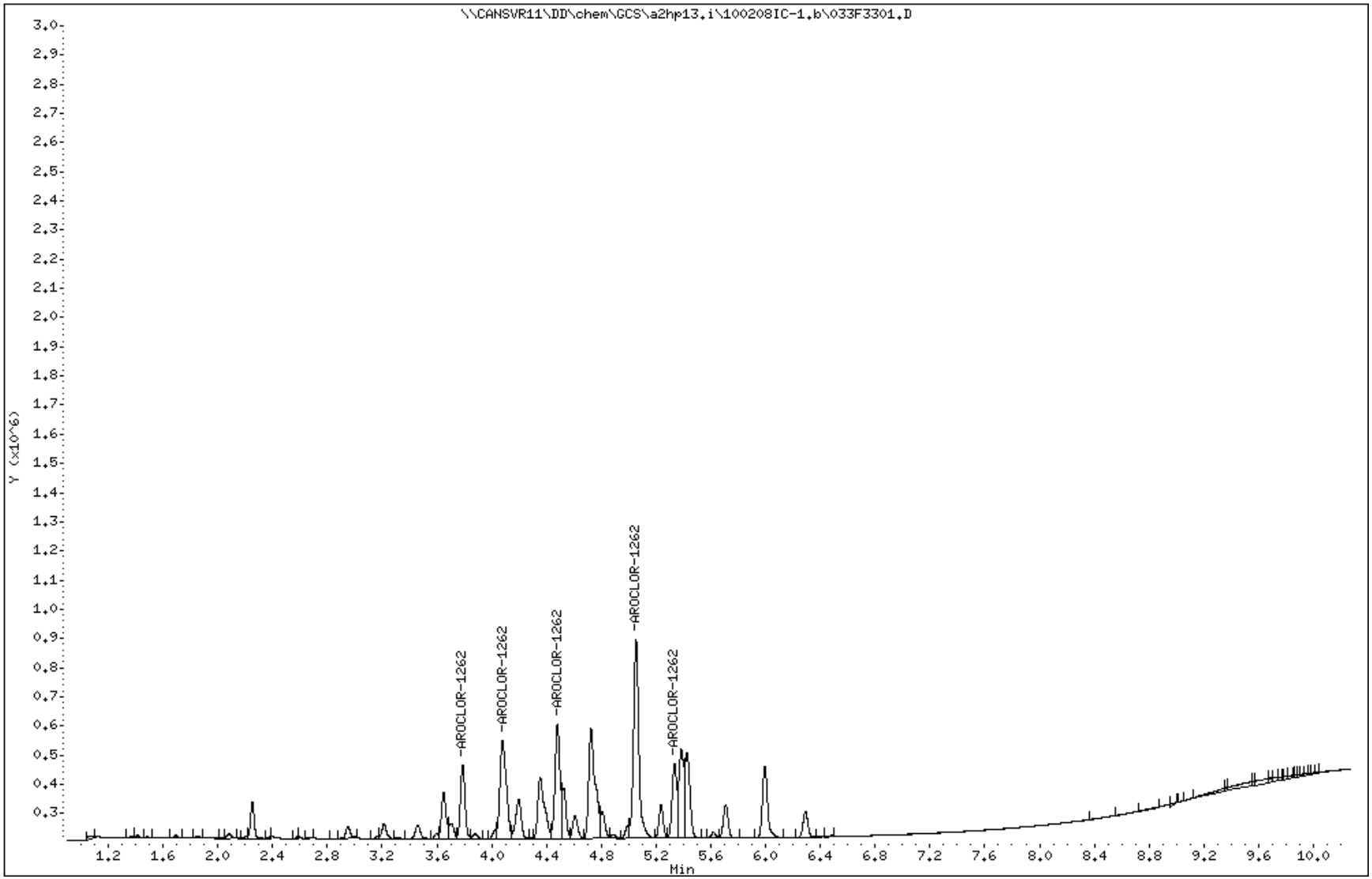
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
Lab Smp Id: 1262
Inj Date : 08-FEB-2010 23:52
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,2
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 33 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.787	3.788	-0.001	254625	0.10000	0.1083	75.00- 125.00	100.00
4.078	4.079	-0.001	336788	0.10000	0.1083	98.90- 164.83	132.27
4.479	4.481	-0.002	391610	0.10000	0.1078	115.68- 192.80	153.80
5.053	5.054	-0.001	680132	0.10000	0.1065	208.14- 346.90	267.11
5.334	5.336	-0.002	253522	0.10000	0.1044	78.27- 130.46	99.57
		Average of Peak Amounts =			0.10706		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
Date : 08-FEB-2010 23:52
Client ID:
Sample Info: 1262,,1,2
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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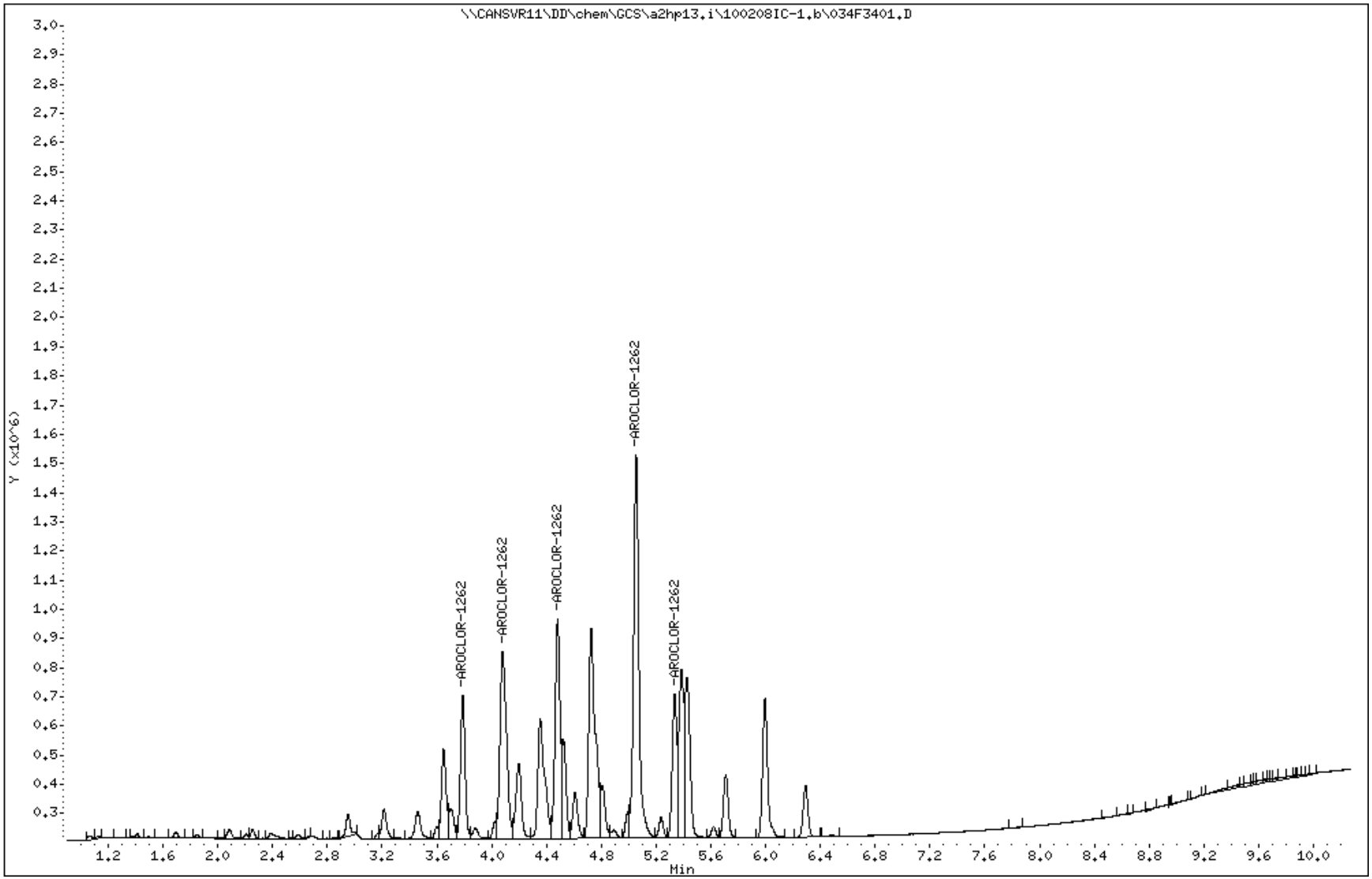
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:06
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,3
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 34 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	491305	0.20000	0.2090	75.00- 125.00	100.00
4.078	4.079	-0.001	639653	0.20000	0.2056	98.90- 164.83	130.19
4.480	4.481	-0.001	750581	0.20000	0.2066	115.68- 192.80	152.77
5.054	5.054	0.000	1313826	0.20000	0.2057	208.14- 346.90	267.42
5.336	5.336	0.000	490755	0.20000	0.2021	78.27- 130.46	99.89
		Average of Peak Amounts =			0.20580		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
Date : 09-FEB-2010 00:06
Client ID:
Sample Info: 1262,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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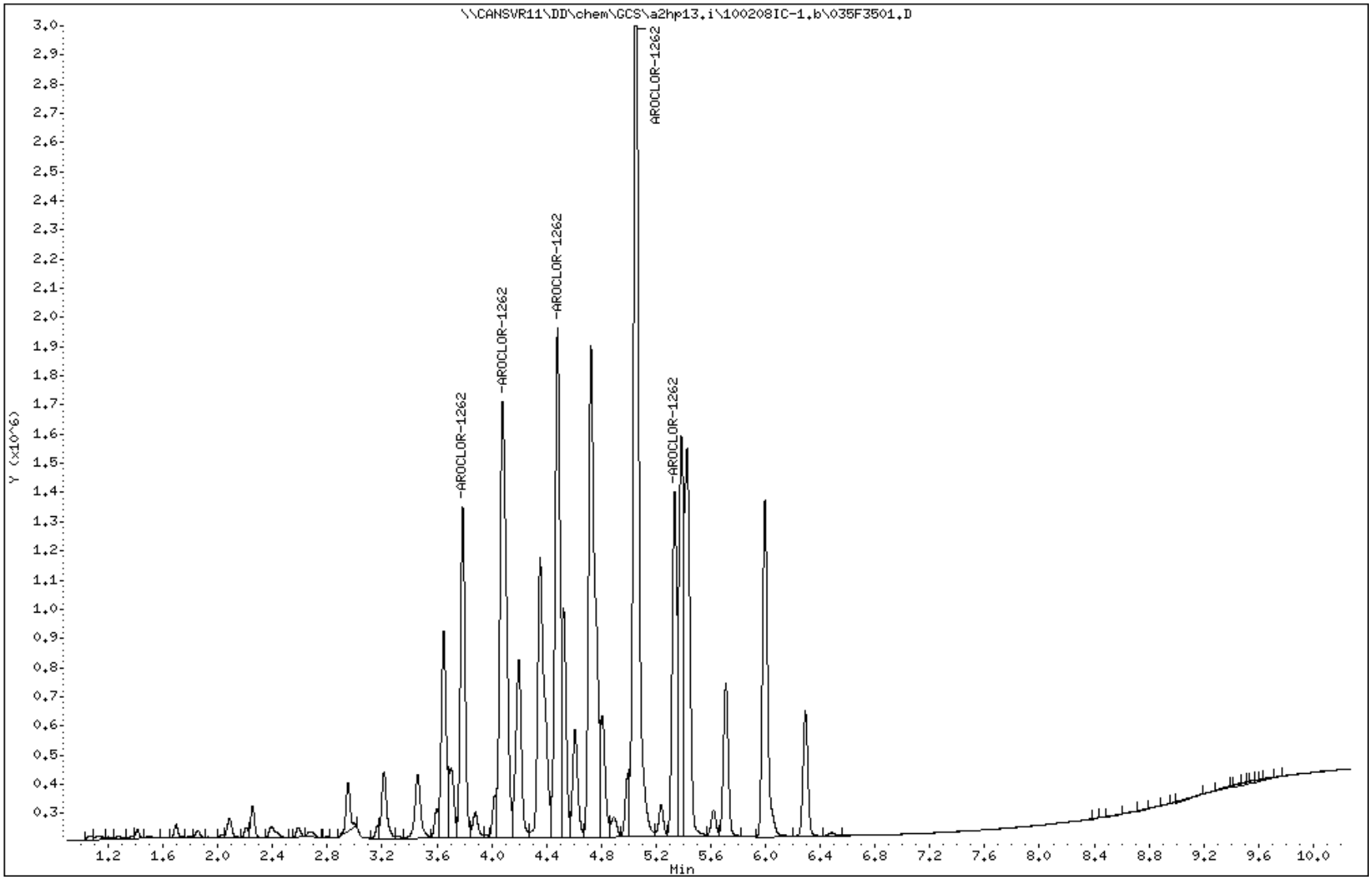
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:21
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,4
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 35 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	1133774	0.50000	0.4823	75.00- 125.00	100.00
4.078	4.079	-0.001	1495007	0.50000	0.4806	98.90- 164.83	131.86
4.480	4.481	-0.001	1748690	0.50000	0.4814	115.68- 192.80	154.24
5.053	5.054	-0.001	3146486	0.50000	0.4926	208.14- 346.90	277.52
5.335	5.336	-0.001	1183261	0.50000	0.4872	78.27- 130.46	104.36
		Average of Peak Amounts =			0.48482		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
Date : 09-FEB-2010 00:21
Client ID:
Sample Info: 1262,,1,4

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:36
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,5
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 36 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	2088075	1.00000	0.8882	75.00- 125.00	100.00
4.079	4.079	0.000	2796289	1.00000	0.8989	98.90- 164.83	133.92
4.481	4.481	0.000	3287716	1.00000	0.9052	115.68- 192.80	157.45
5.054	5.054	0.000	5871569	1.00000	0.9192	208.14- 346.90	281.20
5.335	5.336	-0.001	2235996	1.00000	0.9207	78.27- 130.46	107.08
		Average of Peak Amounts =			0.90644		

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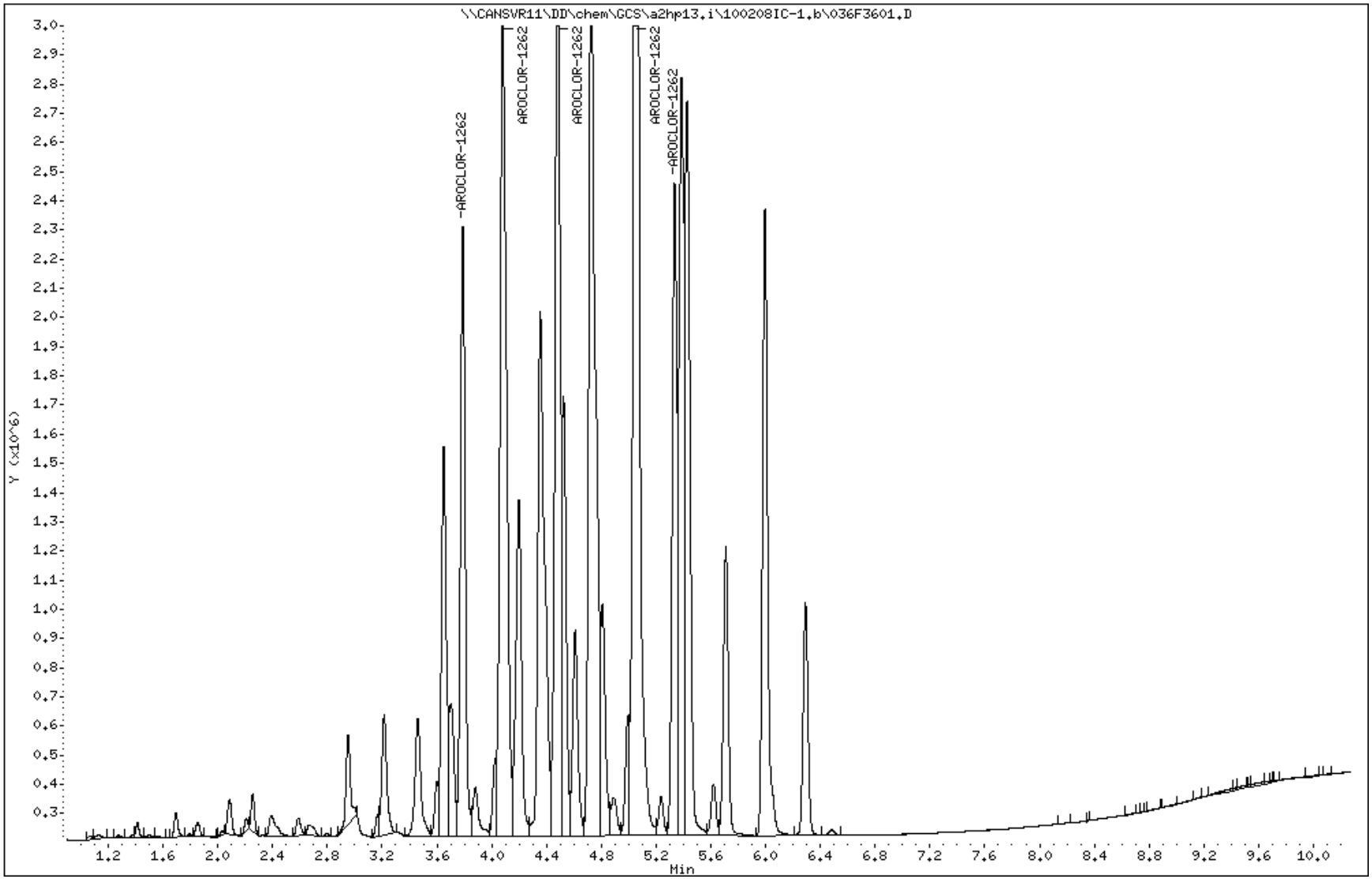
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
Date : 09-FEB-2010 00:36
Client ID:
Sample Info: 1262,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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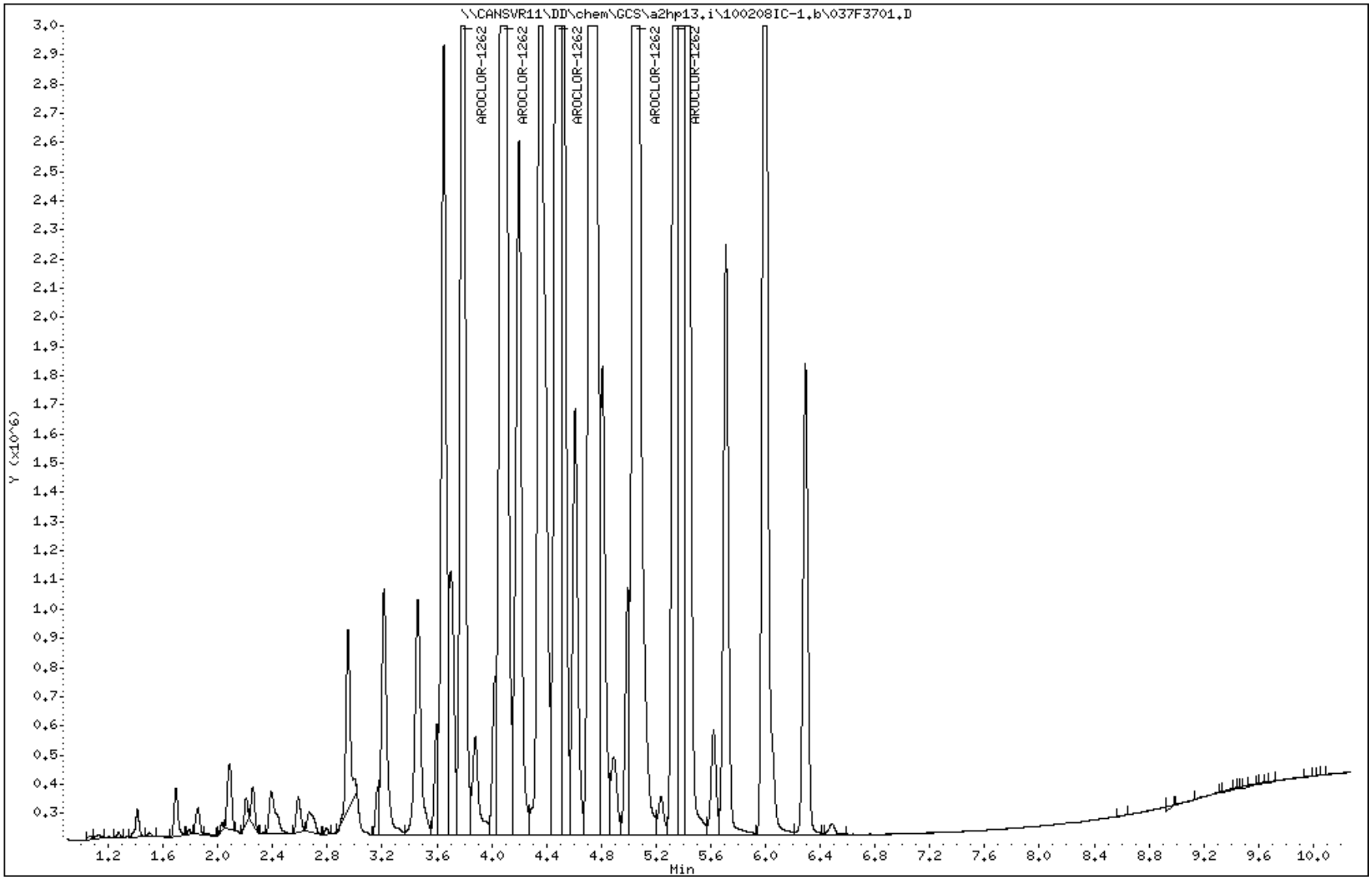
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:51
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,6
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 37 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	4202237	2.00000	1.788	75.00- 125.00	100.00
4.079	4.079	0.000	5609737	2.00000	1.803	98.90- 164.83	133.49
4.481	4.481	0.000	6554882	2.00000	1.805	115.68- 192.80	155.99
5.054	5.054	0.000	11809081	2.00000	1.849	208.14- 346.90	281.02
5.336	5.336	0.000	4533729	2.00000	1.867	78.27- 130.46	107.89
		Average of Peak Amounts =			1.82240		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
Date : 09-FEB-2010 00:51
Client ID:
Sample Info: 1262,,1,6

Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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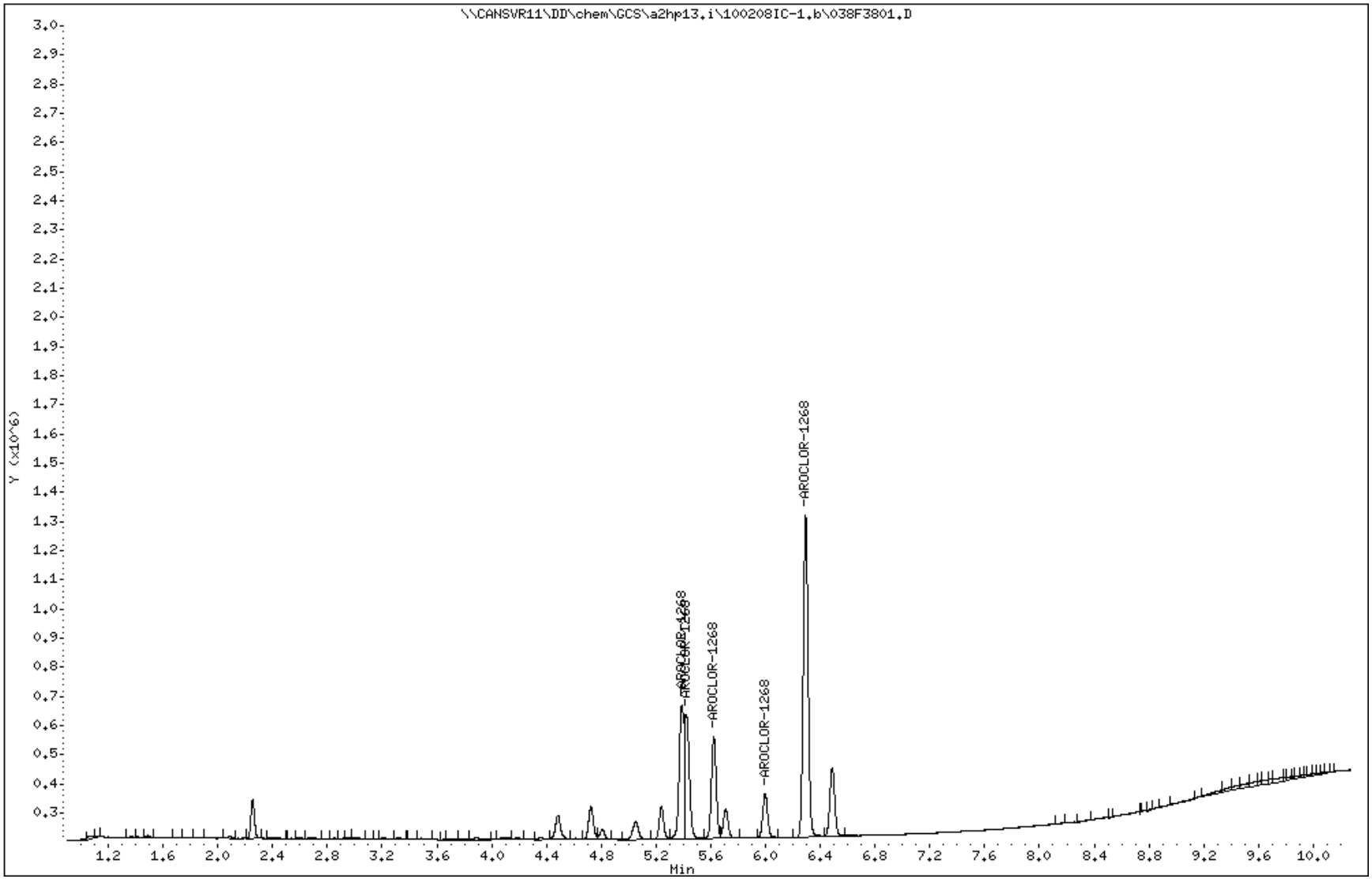
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:06
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,1
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 38 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	460589	0.05000	0.05417	80.00- 120.00	100.00
5.421	5.439	-0.018	426303	0.05000	0.05321	82.56- 137.59	92.56
5.622	5.630	-0.008	350705	0.05000	0.05334	2.72- 4.53	76.14
5.997	6.005	-0.008	151530	0.05000	0.05363	84.36- 140.61	32.90
6.293	6.302	-0.009	1101678	0.05000	0.05482	17.26- 28.76	239.19
		Average of Peak Amounts =			0.05383		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Date : 09-FEB-2010 01:06
Client ID:
Sample Info: 1268,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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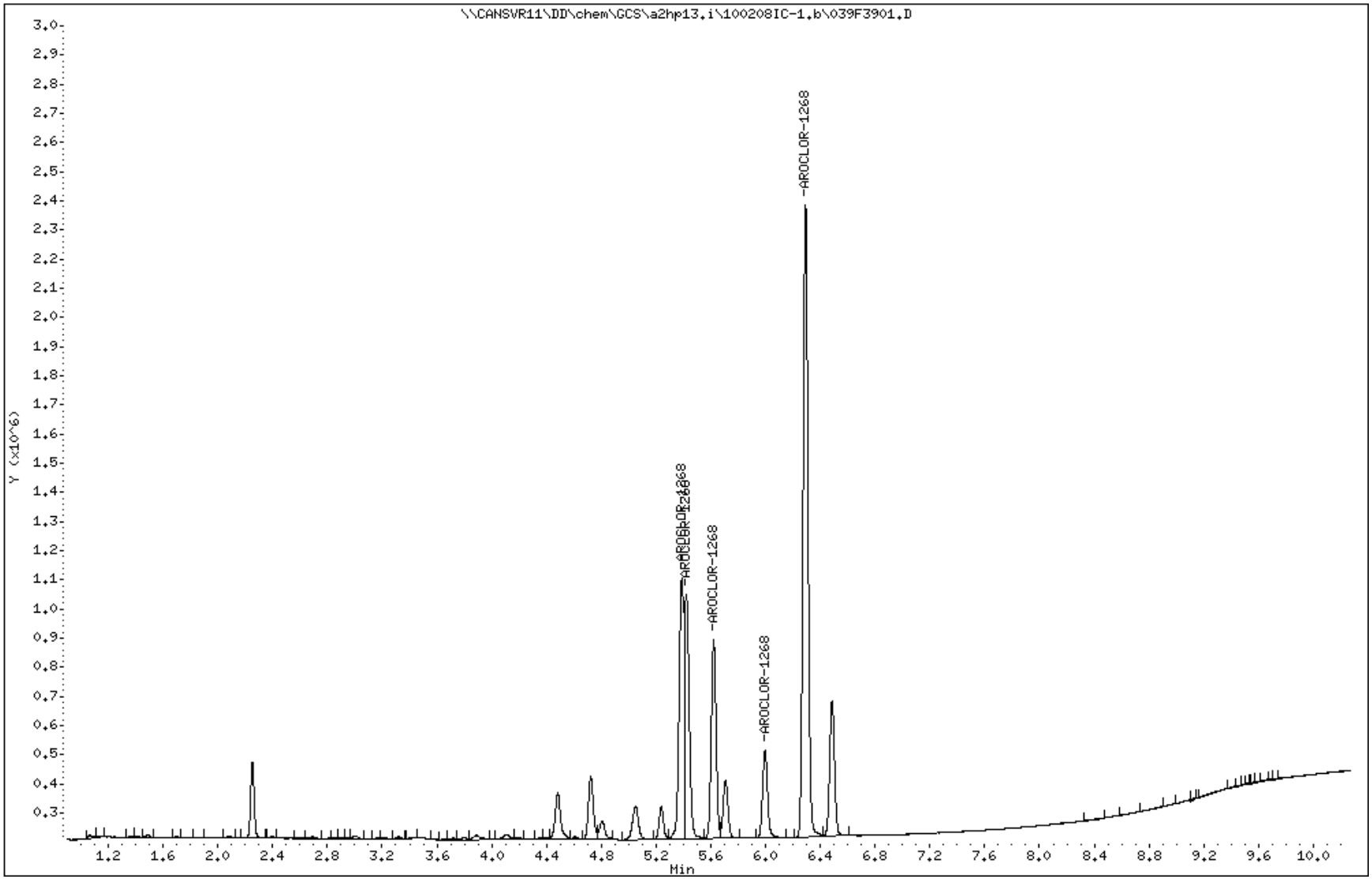
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:21
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,2
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 39 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.387	5.397	-0.010	893898	0.10000	0.1051	80.00- 120.00	100.00
5.421	5.439	-0.018	838830	0.10000	0.1047	82.56- 137.59	93.84
5.620	5.630	-0.010	681804	0.10000	0.1037	2.72- 4.53	76.27
5.996	6.005	-0.009	300089	0.10000	0.1062	84.36- 140.61	33.57
6.291	6.302	-0.011	2170108	0.10000	0.1080	17.26- 28.76	242.77
		Average of Peak Amounts =			0.10554		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Date : 09-FEB-2010 01:21
Client ID:
Sample Info: 1268,,1,2

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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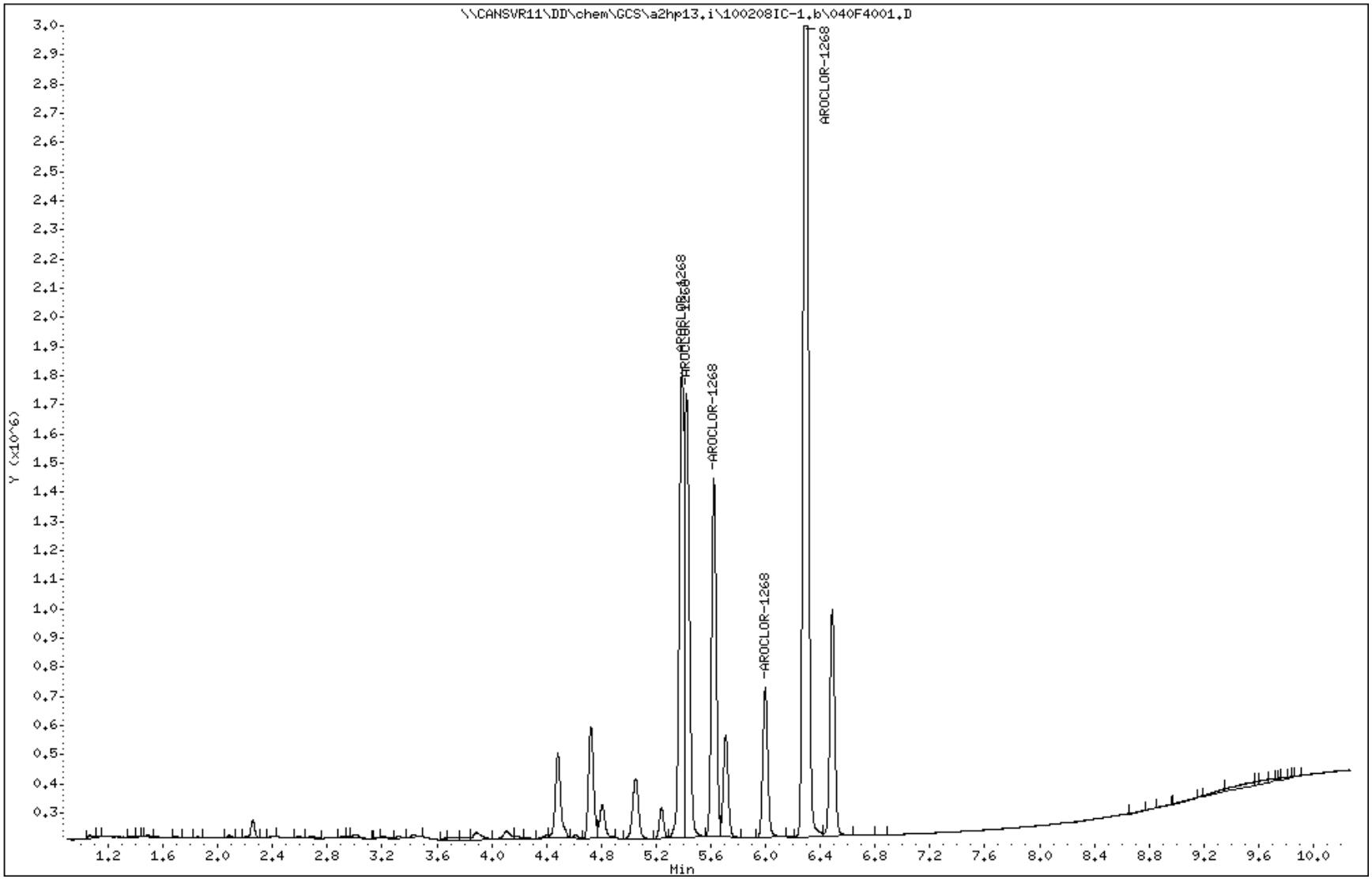
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:37
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,3
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 40 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	1604518	0.20000	0.1887	80.00- 120.00	100.00
5.422	5.439	-0.017	1519826	0.20000	0.1897	82.56- 137.59	94.72
5.621	5.630	-0.009	1230544	0.20000	0.1872	2.72- 4.53	76.69
5.997	6.005	-0.008	515194	0.20000	0.1823	84.36- 140.61	32.11
6.292	6.302	-0.010	3754156	0.20000	0.1868	17.26- 28.76	233.97
		Average of Peak Amounts =			0.18694		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Date : 09-FEB-2010 01:37
Client ID:
Sample Info: 1268,,1,3

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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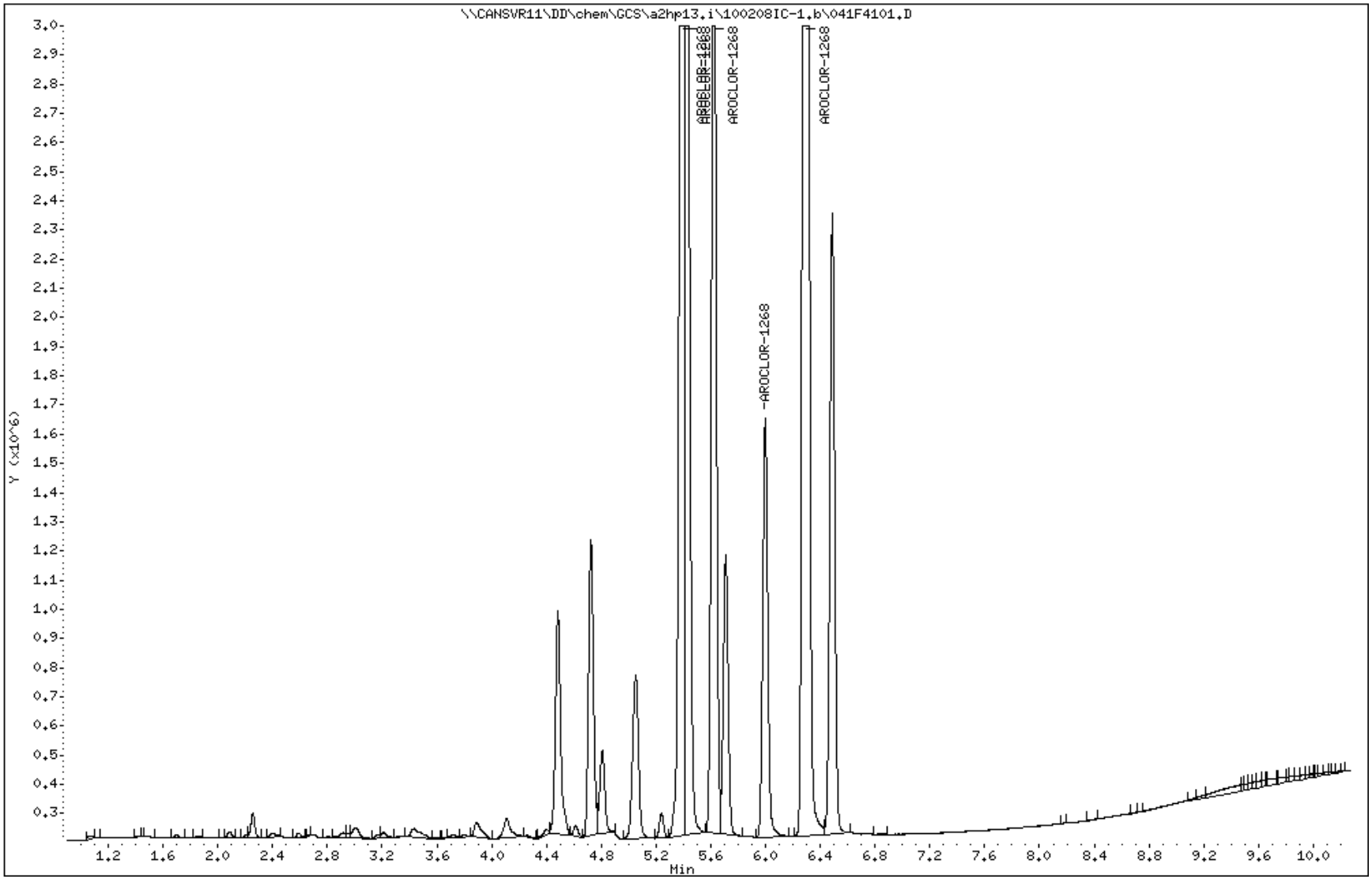
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:52
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,4
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 41 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.389	5.397	-0.008	4361223	0.50000	0.5129	80.00- 120.00	100.00
5.421	5.439	-0.018	4134029	0.50000	0.5160	82.56- 137.59	94.79
5.621	5.630	-0.009	3394525	0.50000	0.5163	2.72- 4.53	77.83
5.996	6.005	-0.009	1433306	0.50000	0.5073	84.36- 140.61	32.86
6.293	6.302	-0.009	10152678	0.50000	0.5052	17.26- 28.76	232.79
		Average of Peak Amounts =			0.51154		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Date : 09-FEB-2010 01:52
Client ID:
Sample Info: 1268,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



1040

North Canton

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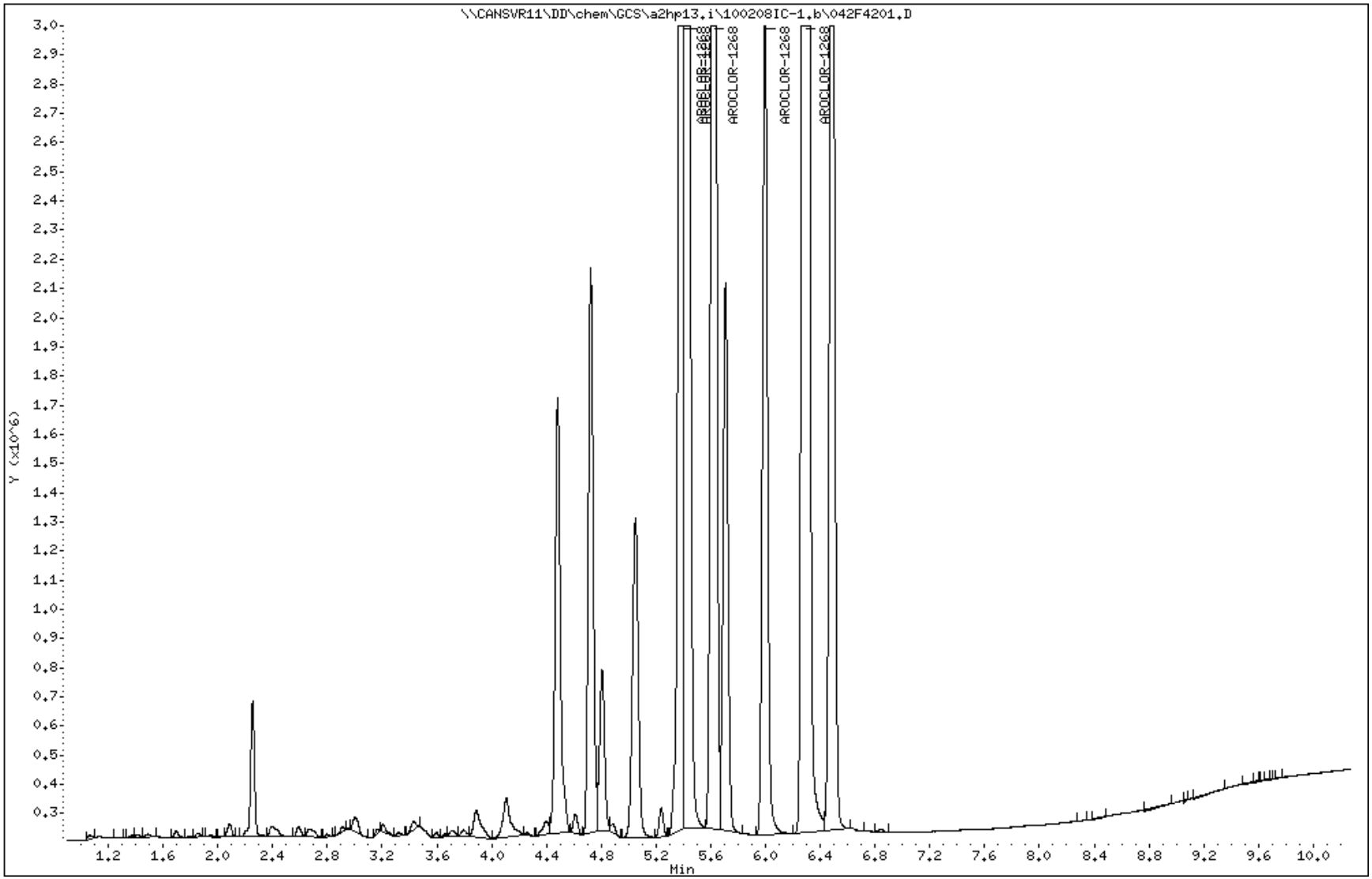
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 02:07
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,5
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 42 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	8455422	1.00000	0.9945	80.00- 120.00	100.00
5.421	5.439	-0.018	8025460	1.00000	1.002	82.56- 137.59	94.91
5.620	5.630	-0.010	6622531	1.00000	1.007	2.72- 4.53	78.32
5.995	6.005	-0.010	2907263	1.00000	1.029	84.36- 140.61	34.38
6.291	6.302	-0.011	20048105	1.00000	0.9977	17.26- 28.76	237.10
		Average of Peak Amounts =			1.00604		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Date : 09-FEB-2010 02:07
Client ID:
Sample Info: 1268,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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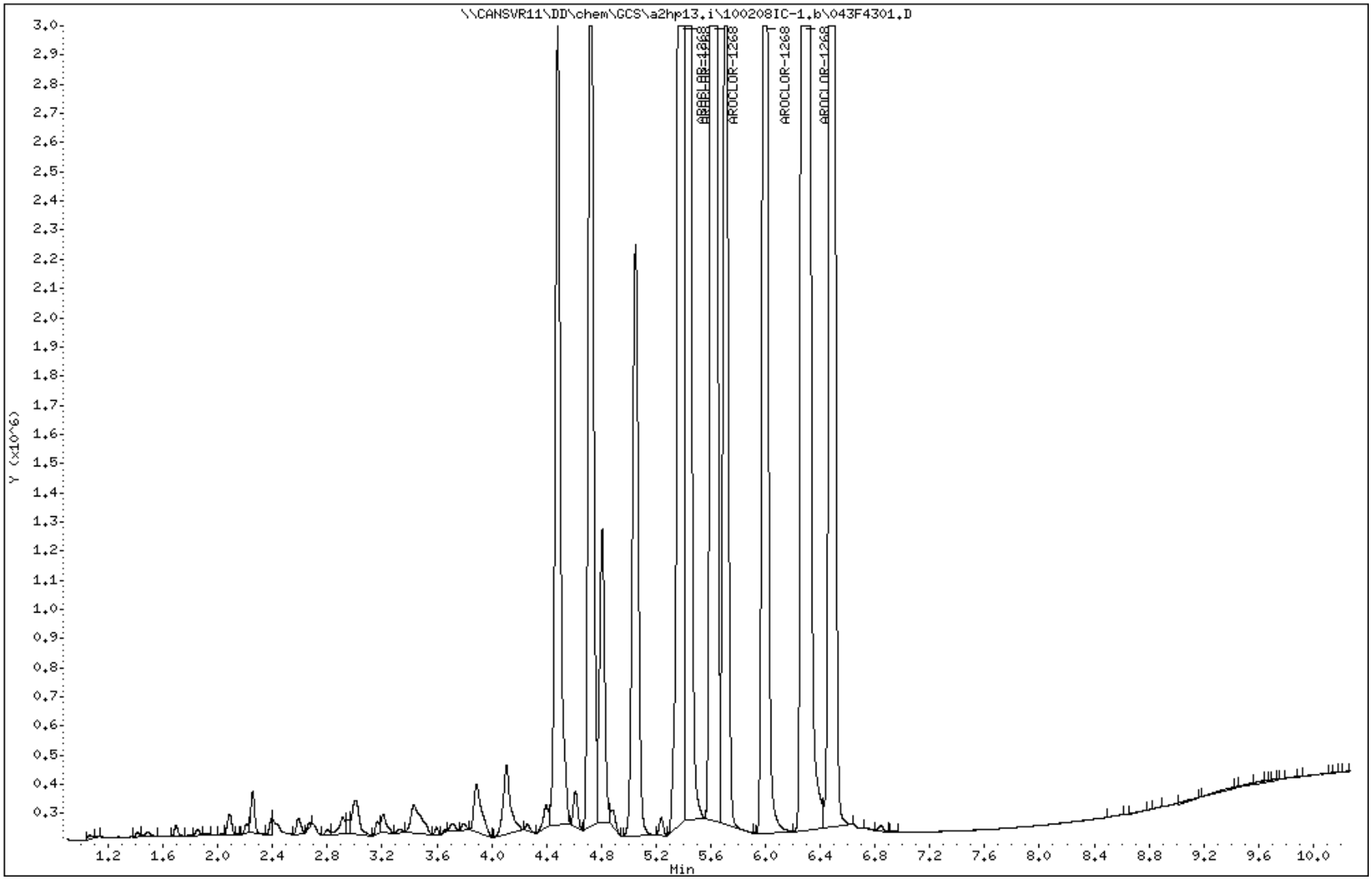
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 02:22
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,6
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 43 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	15327765	2.00000	1.803	80.00- 120.00	100.00
5.422	5.439	-0.017	14527923	2.00000	1.813	82.56- 137.59	94.78
5.620	5.630	-0.010	12097268	2.00000	1.840	2.72- 4.53	78.92
5.996	6.005	-0.009	5143258	2.00000	1.820	84.36- 140.61	33.56
6.292	6.302	-0.010	35423594	2.00000	1.763	17.26- 28.76	231.11
		Average of Peak Amounts =			1.80780		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
Date : 09-FEB-2010 02:22
Client ID:
Sample Info: 1268,,1,6

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Report Date: 09-Feb-2010 09:33

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 09-FEB-2010 08:14
Lab File ID: 046F0101.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: 1CV Quant Type: ESTD
Method: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF1	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 AROCLOR-1016(1)	3556491	3431818	0.010	3.50549	15.00000	Averaged
(2)	6154428	5423225	0.010	11.88093	15.00000	Averaged
(3)	12978864	11295129	0.010	12.97290	15.00000	Averaged
(4)	5325964	4692669	0.010	11.89071	15.00000	Averaged
(5)	5303493	4910283	0.010	7.41416	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2857020	0.010	5.34443	15.00000	Averaged
(2)	4226485	4010594	0.010	5.10806	15.00000	Averaged
(3)	3850847	3675256	0.010	4.55980	15.00000	Averaged
(4)	5757318	5880421	0.010	-2.13821	15.00000	Averaged
(5)	3066451	3179542	0.010	-3.68803	15.00000	Averaged

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Report Date: 09-Feb-2010 09:33

TestAmerica North Canton

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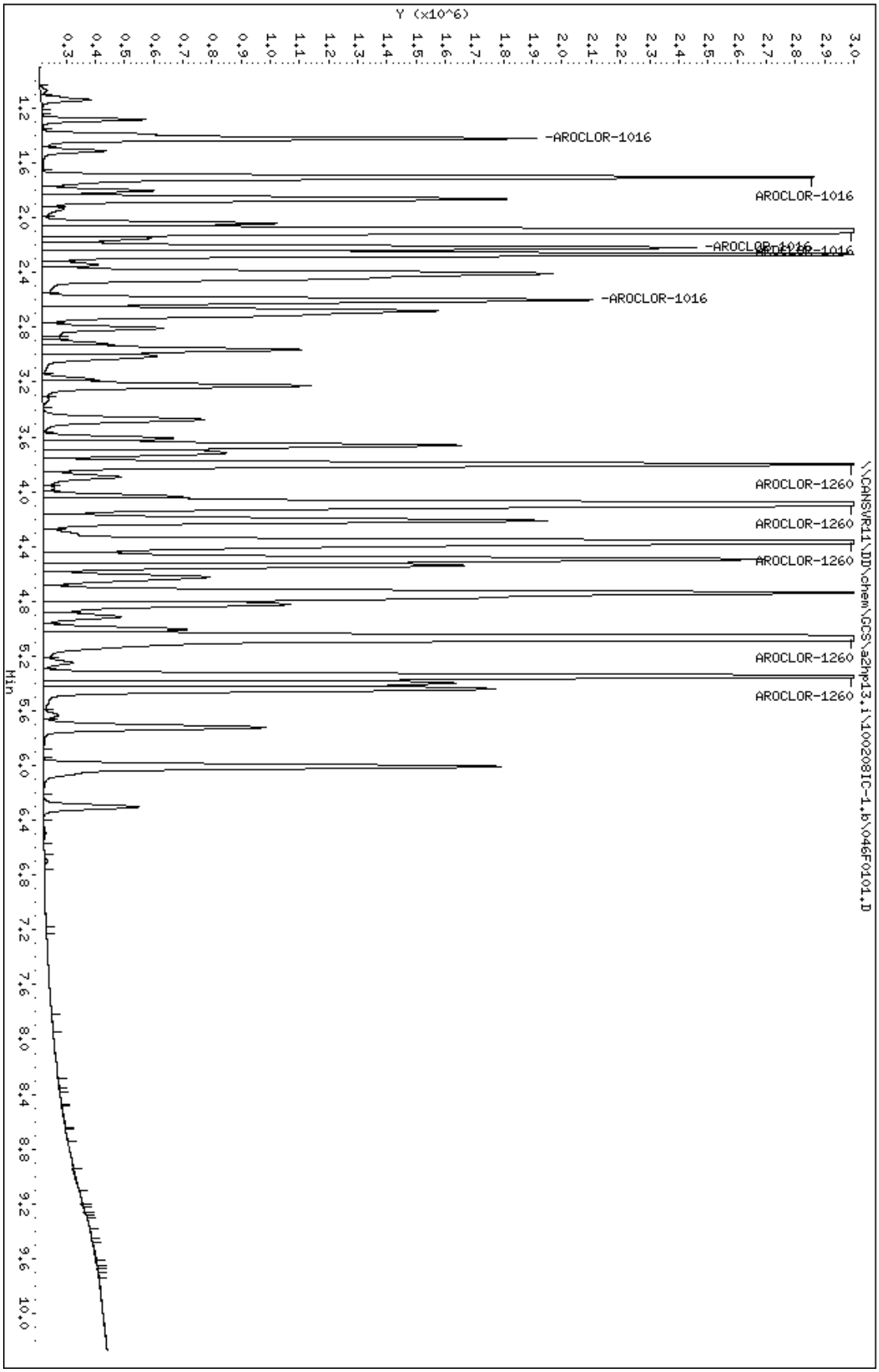
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Lab Smp Id: 1CV
Inj Date : 09-FEB-2010 08:14
Operator : Inst ID: a2hp13.i
Smp Info : 1CV,,2
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 09:33 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 46 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
3 AROCLOR-1016					CAS #: 12674-11-2		
1.420	1.420	0.000	3431818	1.00000	0.9649	80.00- 120.00	100.00
1.702	1.702	0.000	5423225	1.00000	0.8812	118.52- 197.53	158.03
2.096	2.096	0.000	11295129	1.00000	0.8703	246.85- 411.41	329.13
2.217	2.217	0.000	4692669	1.00000	0.8811	102.56- 170.93	136.74
2.599	2.599	0.000	4910283	1.00000	0.9258	107.31- 178.85	143.08
		Average of Peak Amounts =			0.90466		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.801	3.801	0.000	2857020	1.00000	0.9466	80.00- 120.00	100.00
4.089	4.089	0.000	4010594	1.00000	0.9489	105.28- 175.47	140.38
4.366	4.366	0.000	3675256	1.00000	0.9544	96.48- 160.80	128.64
5.066	5.066	0.000	5880421	1.00000	1.021	154.37- 257.28	205.82
5.347	5.347	0.000	3179542	1.00000	1.037	83.47- 139.11	111.29
		Average of Peak Amounts =			0.98158		


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Date : 09-FEB-2010 08:14
Client ID:
Sample Info: 1CV,.2
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
Min
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0C050520

GC Column: RESTEK PEST CLPI ID: 0.53 (mm) Init. Calib. Date(s): 02/08/10 02/09/10

Instrument ID: A2HP13

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 1.16 S2 : 6.52

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		1660	03/11/10	1215	1.16	6.52
02		MRL	03/11/10	1230		
03	LL6SB-069-52	LWCWJ1AF	03/11/10	1424	1.16	6.52
04	LL6SB-069-52	LWCWJ1CG	03/11/10	1439	1.16	6.52
05	LL6SB-069-52	LWCWJ1CH	03/11/10	1454	1.16	6.52
06	LWET8BLK	LWET81AA	03/11/10	1523	1.16	6.52
07	LWET8CHK	LWET81AC	03/11/10	1538	1.16	6.52
08		E009	03/11/10	1553	1.16	6.52
09		MRL	03/11/10	1607		
10						
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31						
32						

QC LIMITS

S1 = TCMX (+/- 0.10 MINUTES)
S2 = DCB (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 12-Mar-2010 15:20

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Start Cal Date: 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
09-FEB-2010 01:06	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
08-FEB-2010 23:37	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
08-FEB-2010 22:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
08-FEB-2010 20:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
08-FEB-2010 19:06	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
08-FEB-2010 17:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
08-FEB-2010 16:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Cal Level: 2 , Cal Amount: 0.10000		
09-FEB-2010 01:21	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
08-FEB-2010 23:52	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
08-FEB-2010 22:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
08-FEB-2010 20:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
08-FEB-2010 19:21	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
08-FEB-2010 17:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
08-FEB-2010 16:21	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Cal Level: 3 , Cal Amount: 0.20000		
09-FEB-2010 01:37	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
09-FEB-2010 00:06	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
08-FEB-2010 22:36	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
08-FEB-2010 21:07	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
08-FEB-2010 19:36	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D

08-FEB-2010 18:06	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
08-FEB-2010 16:36	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D

Cal Level: 4 , Cal Amount: 0.50000		
09-FEB-2010 01:52	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
09-FEB-2010 00:21	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
08-FEB-2010 22:52	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
08-FEB-2010 21:21	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
08-FEB-2010 19:51	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
08-FEB-2010 18:22	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
08-FEB-2010 16:51	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D

Cal Level: 5 , Cal Amount: 1.00000		
09-FEB-2010 02:07	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
09-FEB-2010 00:36	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
08-FEB-2010 23:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
08-FEB-2010 21:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
08-FEB-2010 20:07	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
08-FEB-2010 18:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
08-FEB-2010 17:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D

Cal Level: 6 , Cal Amount: 2.00000		
09-FEB-2010 02:22	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
09-FEB-2010 00:51	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
08-FEB-2010 23:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
08-FEB-2010 21:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
08-FEB-2010 20:22	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
08-FEB-2010 18:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
08-FEB-2010 17:22	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

11-MAR-2010 21:35	12-AR1660TD	\\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\037F3701.D
11-MAR-2010 18:51	12-AR1660TD	\\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\026F2601.D
11-MAR-2010 15:53	12-AR1660TD	\\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\014F1401.D
11-MAR-2010 14:09	all	\\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\007F0701.D
11-MAR-2010 13:14	3-AR1248	\\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\006F0601.D
11-MAR-2010 12:59	2-AR1242	\\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\005F0501.D
11-MAR-2010 12:44	1-AR1232	\\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\004F0401.D
11-MAR-2010 12:15	12-AR1660TD	\\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\002F0201.D

Data File: \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\002F0201.D
Report Date: 11-Mar-2010 12:22

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 11-MAR-2010 12:15
Lab File ID: 002F0201.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: 1660 Quant Type: ESTD
Method: \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 TCMX	124233510	128493880	0.010	-3.42932	15.00000	Averaged
3 AROCLOR-1016(1)	3556491	3128346	0.010	12.03840	15.00000	Averaged
(2)	6154428	5585074	0.010	9.25113	15.00000	Averaged
(3)	12978864	11954756	0.010	7.89058	15.00000	Averaged
(4)	5325964	4859610	0.010	8.75623	15.00000	Averaged
(5)	5303493	4786600	0.010	9.74627	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2650462	0.010	12.18788	15.00000	Averaged
(2)	4226485	3658552	0.010	13.43749	15.00000	Averaged
(3)	3850847	3324816	0.010	13.66013	15.00000	Averaged
(4)	5757318	5113660	0.010	11.17982	15.00000	Averaged
(5)	3066451	2670076	0.010	12.92617	15.00000	Averaged
$ 9 DCB	55471757	54297240	0.010	2.11732	15.00000	Averaged

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PCB 8082/608

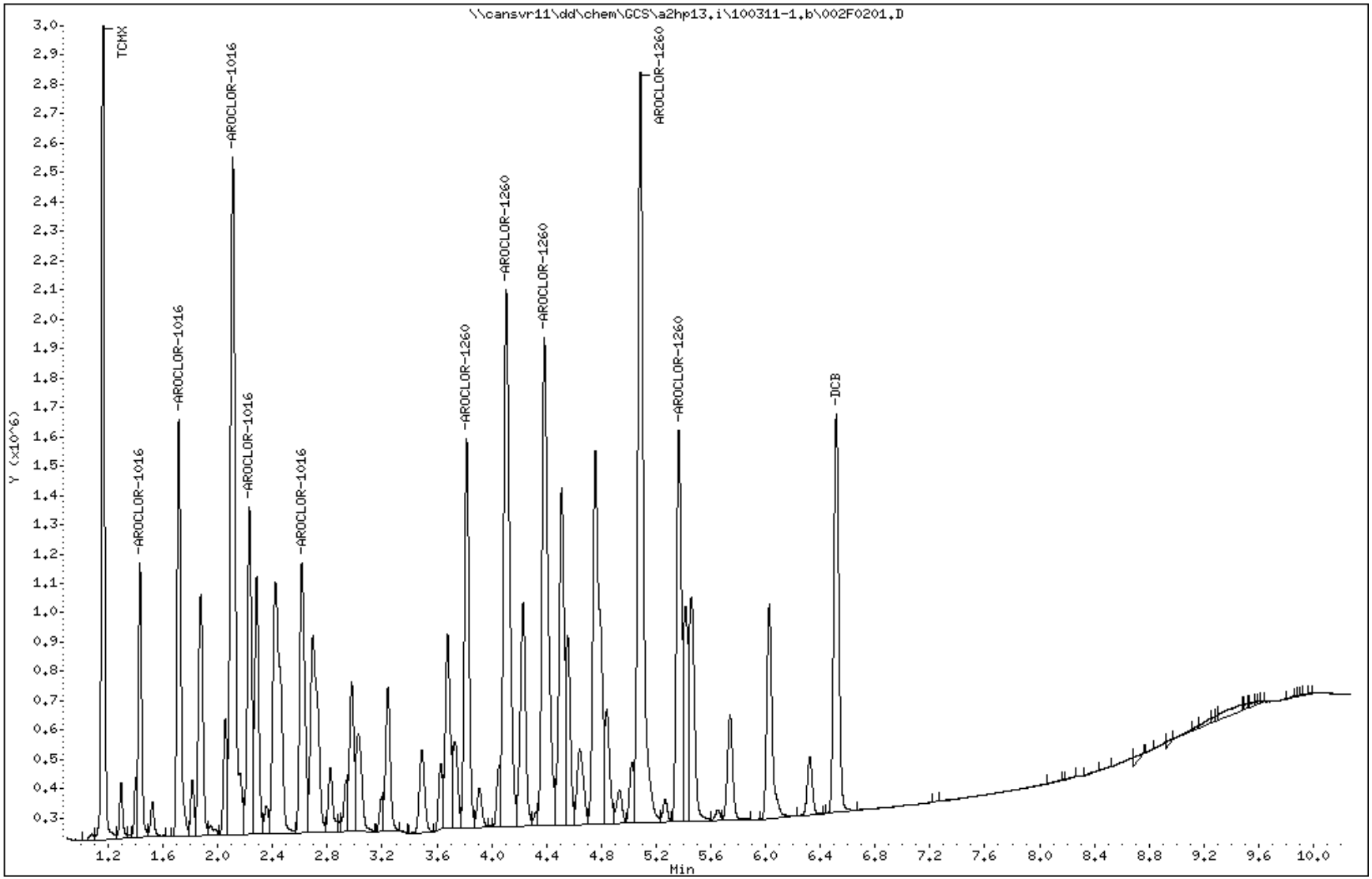
Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\002F0201.D
Lab Smp Id: 1660
Inj Date : 11-MAR-2010 12:15
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,2 E009
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Meth Date : 11-Mar-2010 12:22 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.160	1.160	0.000	3212347	0.02500	0.02586		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.431	1.431	0.000	1564173	0.50000	0.4398	80.00- 120.00	100.00
1.714	1.714	0.000	2792537	0.50000	0.4537	133.90- 223.16	178.53
2.109	2.109	0.000	5977378	0.50000	0.4605	286.61- 477.68	382.14
2.230	2.230	0.000	2429805	0.50000	0.4562	116.51- 194.18	155.34
2.612	2.612	0.000	2393300	0.50000	0.4513	114.76- 191.26	153.01
Average of Peak Amounts =					0.45230		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.816	3.816	0.000	1325231	0.50000	0.4391	80.00- 120.00	100.00
4.106	4.106	0.000	1829276	0.50000	0.4328	103.53- 172.54	138.03
4.384	4.384	0.000	1662408	0.50000	0.4317	94.08- 156.80	125.44
5.085	5.085	0.000	2556830	0.50000	0.4441	144.70- 241.17	192.93
5.366	5.366	0.000	1335038	0.50000	0.4354	75.56- 125.93	100.74
Average of Peak Amounts =					0.43662		
$ 9 DCB					CAS #: 2051-24-3		
6.516	6.516	0.000	1357431	0.02500	0.02447		

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\002F0201.D
Date : 11-MAR-2010 12:15
Client ID:
Sample Info: 1660,,2 E009

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\003F0301.D
Report Date: 11-Mar-2010 14:03

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RECOVERY REPORT

Client Name: Client SDG: SDGa02149
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MRL
Level: LOW Operator:
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: 6-AR1660.sub
Method File: \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
3 AROCLOR-1016	0.05000	0.05308	106.16	70-130
8 AROCLOR-1260	0.05000	0.05126	102.52	70-130

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PCB 8082/608

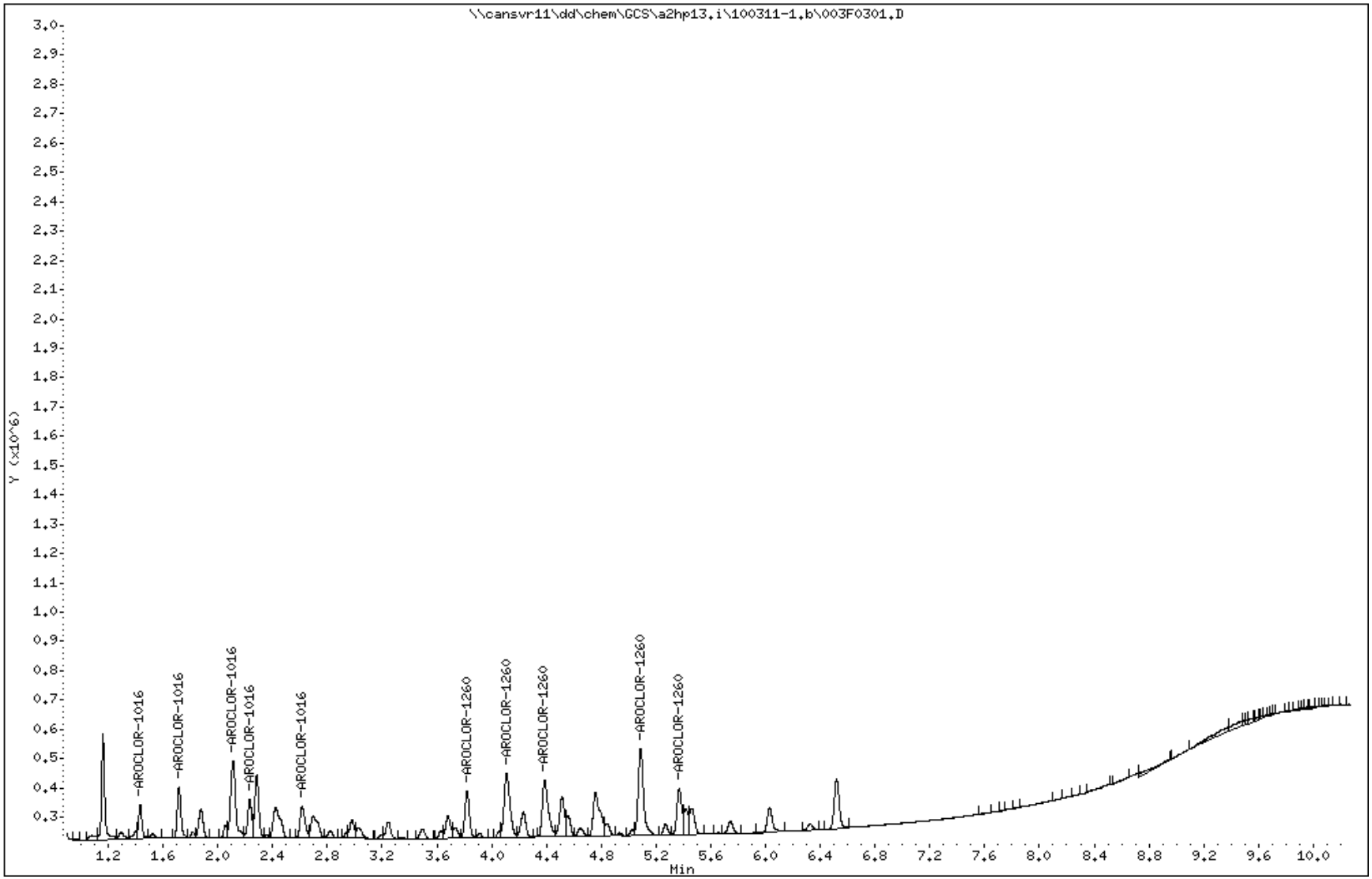
Data file : \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\003F0301.D
Lab Smp Id: MRL
Inj Date : 11-MAR-2010 12:30
Operator : Inst ID: a2hp13.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Meth Date : 11-Mar-2010 13:21 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 3 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	final volume
Vo	1000.000	intitial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
3 AROCLOR-1016					CAS #: 12674-11-2		
1.433	1.431	0.002	198915	0.05593	0.05593	80.00- 120.00	100.00
1.716	1.714	0.002	331165	0.05381	0.05381	133.90- 223.16	166.49
2.110	2.109	0.001	683791	0.05268	0.05268	286.61- 477.68	343.76
2.233	2.230	0.003	274816	0.05160	0.05160	116.51- 194.18	138.16
2.614	2.612	0.002	272490	0.05138	0.05138	114.76- 191.26	136.99
		Average of Peak Concentrations =			0.05308		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.820	3.816	0.004	159968	0.05300	0.05300	80.00- 120.00	100.00
4.108	4.106	0.002	217381	0.05143	0.05143	103.53- 172.54	135.89
4.388	4.384	0.004	192544	0.05000	0.05000	94.08- 156.80	120.36
5.088	5.085	0.003	295678	0.05136	0.05136	144.70- 241.17	184.84
5.369	5.366	0.003	154911	0.05052	0.05052	75.56- 125.93	96.84
		Average of Peak Concentrations =			0.05126		

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\003F0301.D
Date : 11-MAR-2010 12:30
Client ID:
Instrument: a2hp13.i
Sample Info: MRL
Purge Volume: 1000.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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Report Date: 11-Mar-2010 16:01

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 11-MAR-2010 15:53
Lab File ID: 014F1401.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: E009 Quant Type: ESTD
Method: \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 TCMX	124233510	127578400	0.010	-2.69242	15.00000	Averaged
3 AROCLOR-1016(1)	3556491	3324720	0.010	6.51683	15.00000	Averaged
(2)	6154428	5932944	0.010	3.59878	15.00000	Averaged
(3)	12978864	12760334	0.010	1.68373	15.00000	Averaged
(4)	5325964	5233762	0.010	1.73118	15.00000	Averaged
(5)	5303493	5134792	0.010	3.18094	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2824370	0.010	6.42615	15.00000	Averaged
(2)	4226485	3934986	0.010	6.89697	15.00000	Averaged
(3)	3850847	3592846	0.010	6.69985	15.00000	Averaged
(4)	5757318	5641848	0.010	2.00561	15.00000	Averaged
(5)	3066451	2961560	0.010	3.42058	15.00000	Averaged
$ 9 DCB	55471757	59185400	0.010	-6.69466	15.00000	Averaged

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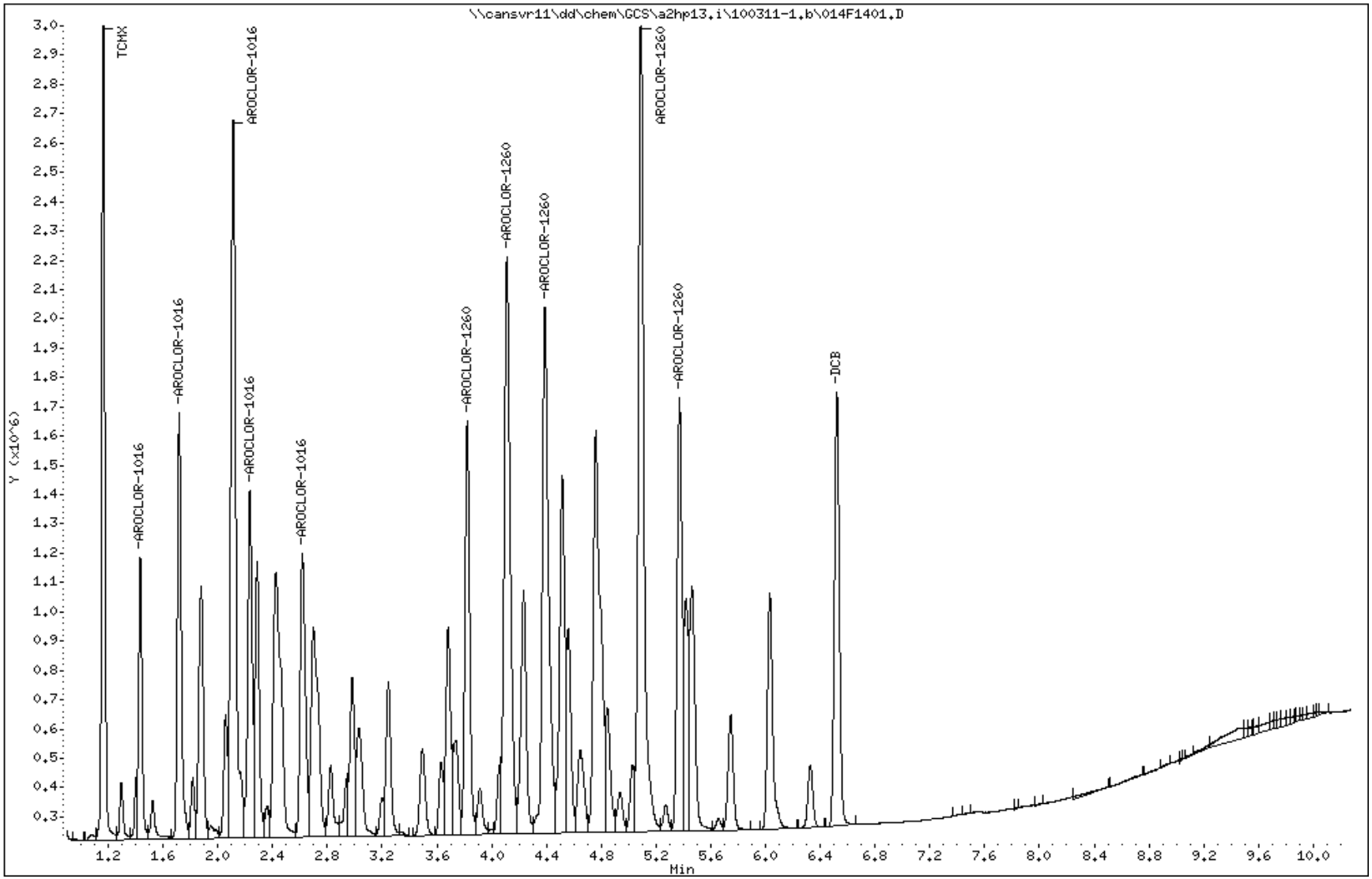
PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\014F1401.D
Lab Smp Id: E009
Inj Date : 11-MAR-2010 15:53
Operator : Inst ID: a2hp13.i
Smp Info : E009,,2
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Meth Date : 11-Mar-2010 16:01 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.162	0.000	3189460	0.02500	0.02567		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.434	1.434	0.000	1662360	0.50000	0.4674	80.00- 120.00	100.00
1.717	1.717	0.000	2966472	0.50000	0.4820	133.84- 223.06	178.45
2.112	2.112	0.000	6380167	0.50000	0.4916	287.85- 479.75	383.80
2.234	2.234	0.000	2616881	0.50000	0.4913	118.06- 196.77	157.42
2.617	2.617	0.000	2567396	0.50000	0.4841	115.83- 193.05	154.44
		Average of Peak Amounts =			0.48328		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.822	3.822	0.000	1412185	0.50000	0.4679	80.00- 120.00	100.00
4.110	4.110	0.000	1967493	0.50000	0.4655	104.49- 174.15	139.32
4.389	4.389	0.000	1796423	0.50000	0.4665	95.41- 159.01	127.21
5.089	5.089	0.000	2820924	0.50000	0.4900	149.82- 249.69	199.76
5.372	5.372	0.000	1480780	0.50000	0.4829	78.64- 131.07	104.86
		Average of Peak Amounts =			0.47456		
$ 9 DCB					CAS #: 2051-24-3		
6.521	6.521	0.000	1479635	0.02500	0.02667		

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\014F1401.D
Date : 11-MAR-2010 15:53
Client ID:
Sample Info: E009,,2

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



1060

North Canton

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\015F1501.D
Report Date: 12-Mar-2010 12:29

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa02149
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MRL
Level: LOW Operator:
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: 6-AR1660.sub
Method File: \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
3 AROCLOR-1016	0.05000	0.05317	106.35	70-130
8 AROCLOR-1260	0.05000	0.05097	101.94	70-130

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\015F1501.D
Report Date: 12-Mar-2010 12:29

TestAmerica North Canton

PCB 8082/608

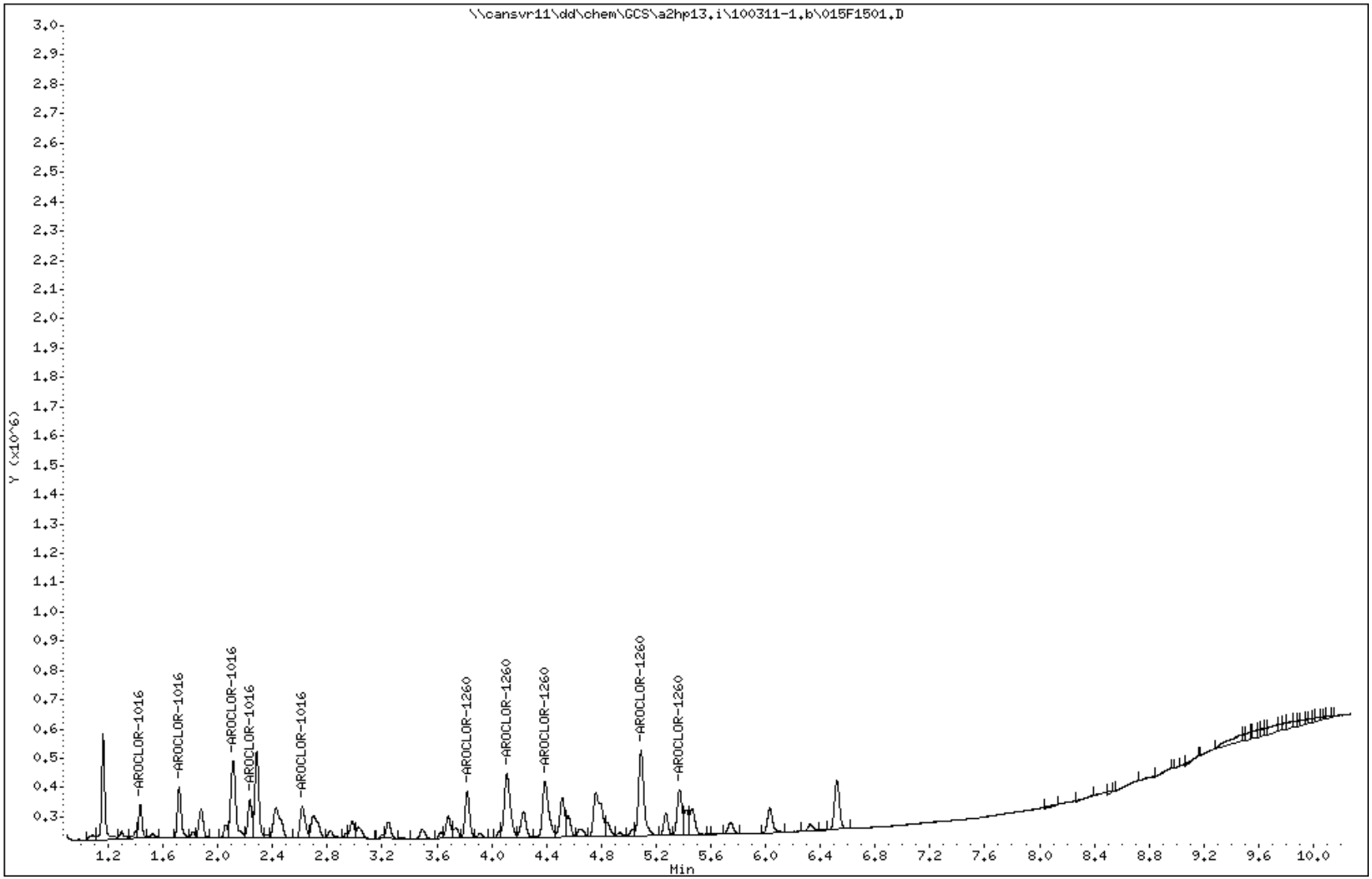
Data file : \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\015F1501.D
Lab Smp Id: MRL
Inj Date : 11-MAR-2010 16:07
Operator : Inst ID: a2hp13.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Meth Date : 11-Mar-2010 21:43 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 15 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	final volume
Vo	1000.000	intitial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
3 AROCLOR-1016					CAS #: 12674-11-2		
1.433	1.433	0.000	196387	0.05522	0.05522	80.00- 120.00	100.00
1.717	1.716	0.001	336659	0.05470	0.05470	133.43- 222.39	171.43
2.112	2.112	0.000	690222	0.05318	0.05318	291.60- 486.00	351.46
2.234	2.233	0.001	268567	0.05043	0.05042	117.70- 196.17	136.75
2.617	2.616	0.001	277595	0.05234	0.05234	115.39- 192.32	141.35
	Average of Peak Concentrations =			0.05317			
8 AROCLOR-1260					CAS #: 11096-82-5		
3.822	3.821	0.001	159213	0.05275	0.05275	80.00- 120.00	100.00
4.110	4.111	-0.001	218321	0.05166	0.05166	105.00- 175.01	137.13
4.389	4.388	0.001	191635	0.04976	0.04976	96.41- 160.68	120.36
5.089	5.089	0.000	291724	0.05067	0.05067	151.57- 252.62	183.23
5.372	5.371	0.001	153327	0.05000	0.05000	79.78- 132.96	96.30
	Average of Peak Concentrations =			0.05097			

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\015F1501.D
Date : 11-MAR-2010 16:07
Client ID:
Instrument: a2hp13.i
Sample Info: MRL
Purge Volume: 1000.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\046F4601.D
Report Date: 15-Jan-2010 10:04

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PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\046F4601.D
Lab Smp Id: 1232 10ML MDL
Inj Date : 08-JAN-2010 19:11
Operator : Inst ID: a2hp13.i
Smp Info : 1232 10ML MDL
Misc Info : 1232 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

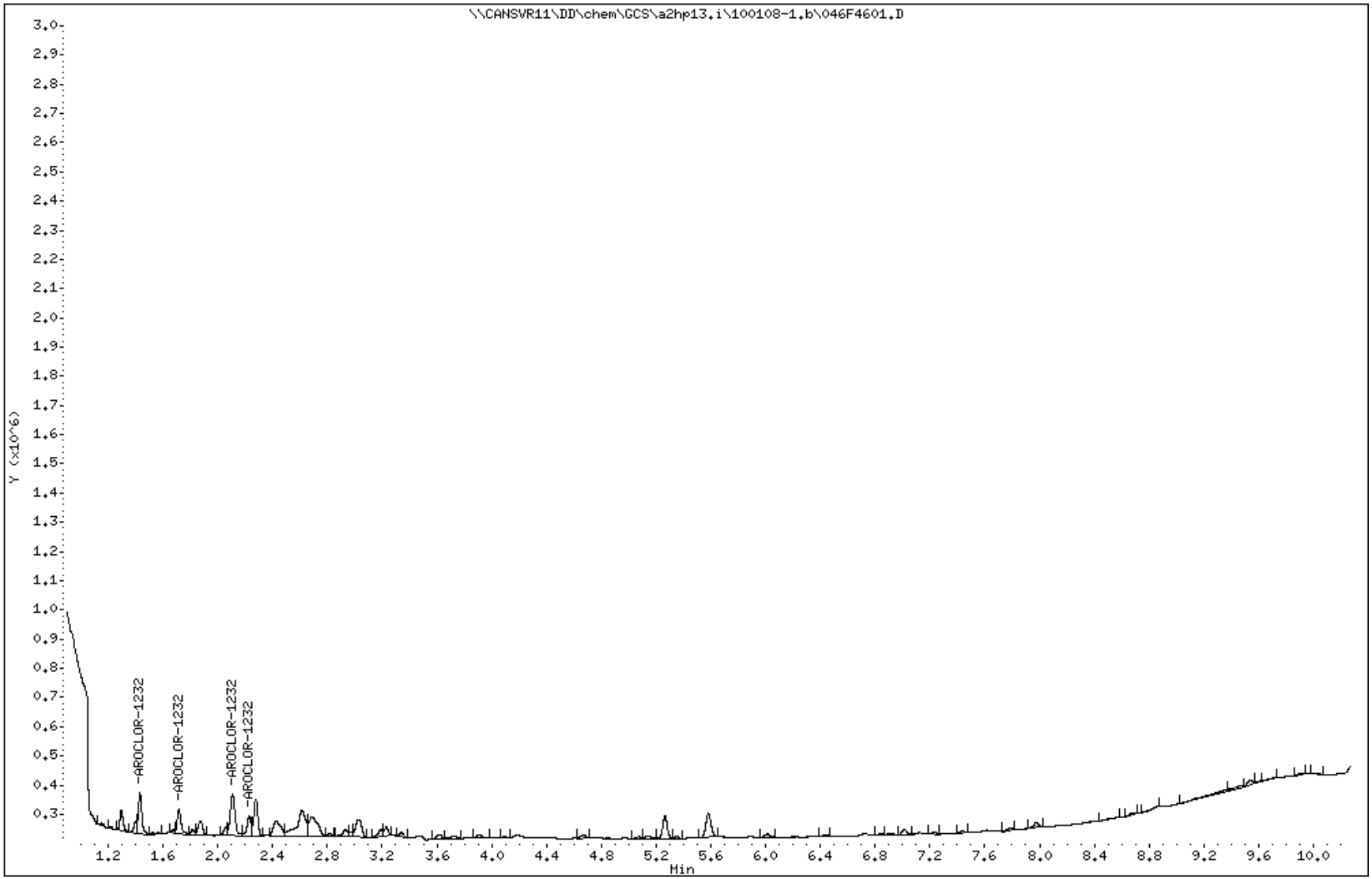
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.431	1.438	-0.007	244458	0.08394	27.98	80.00- 120.00	100.00(M)
1.714	1.723	-0.009	162511	0.07749	25.83	7.36- 12.27	66.48
2.108	2.116	-0.008	346590	0.07904	26.35	15.62- 26.04	141.78
2.228	2.237	-0.009	140699	0.08096	26.99	6.38- 10.64	57.56
2.613	2.618	-0.005	0	0.0000	0.0000	31.19- 51.99	0.00
		Average of Peak Concentrations =			26.78		

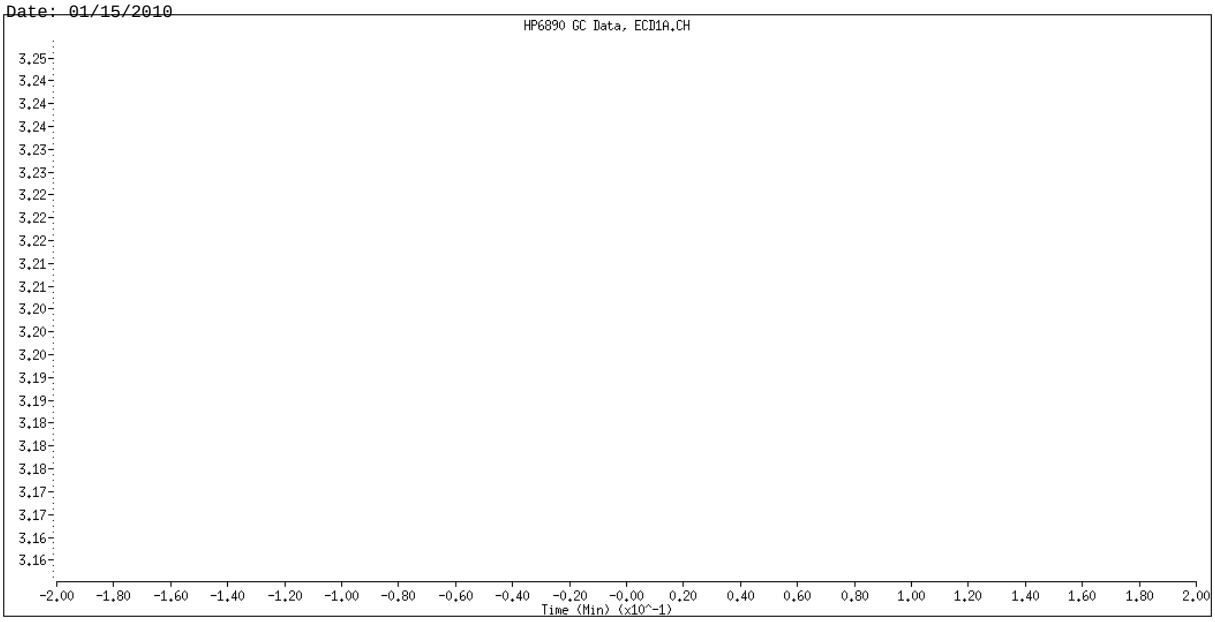
QC Flag Legend

M - Compound response manually integrated.

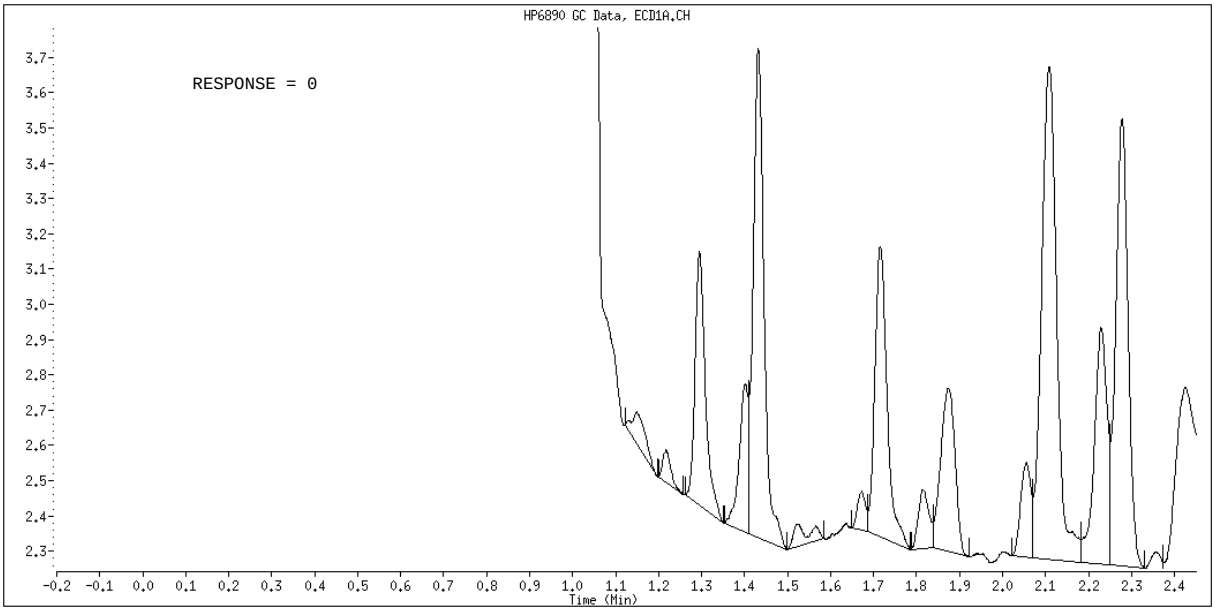
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\046F4601.D
Date : 08-JAN-2010 19:11
Client ID:
Instrument: a2hp13.i
Sample Info: 1232 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 046F4601.D
Inj. Date and Time: 08-JAN-2010 19:11
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1232
CAS #: 11141-16-5
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\047F4701.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\047F4701.D
Lab Smp Id: 1242 10ML MDL
Inj Date : 08-JAN-2010 19:25
Operator : Inst ID: a2hp13.i
Smp Info : 1242 10ML MDL
Misc Info : 1242 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 47
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

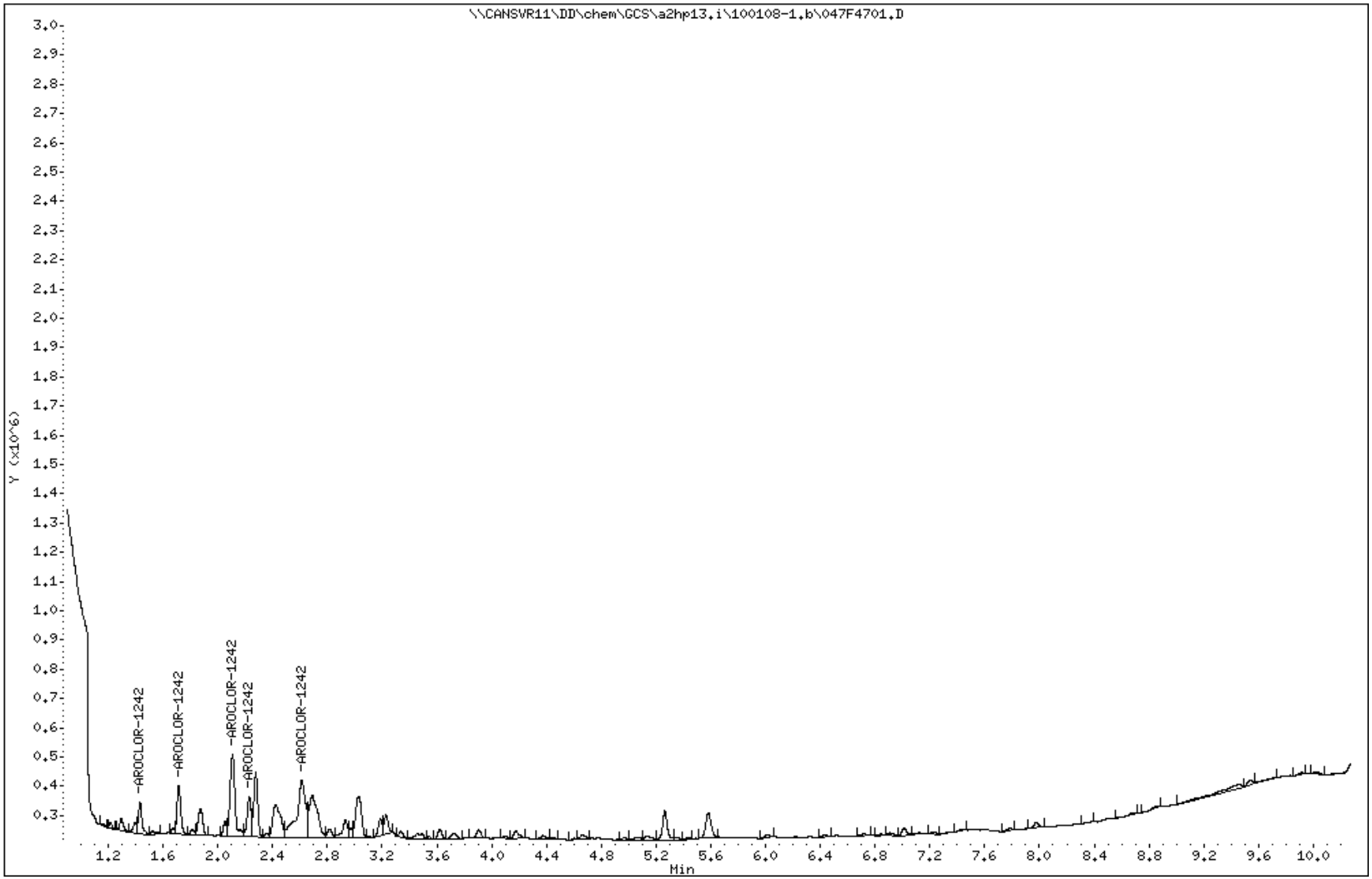
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.431	1.438	-0.007	196523	0.08635	28.78	80.00- 120.00	100.00(M)
1.713	1.723	-0.010	326347	0.07584	25.28	7.36- 12.27	166.06
2.107	2.116	-0.009	714475	0.08008	26.69	15.62- 26.04	363.56
2.228	2.237	-0.009	281932	0.07443	24.81	6.38- 10.64	143.46
2.618	2.618	0.000	0	0.0000	0.0000	31.19- 51.99	0.00
		Average of Peak Concentrations =			26.39		

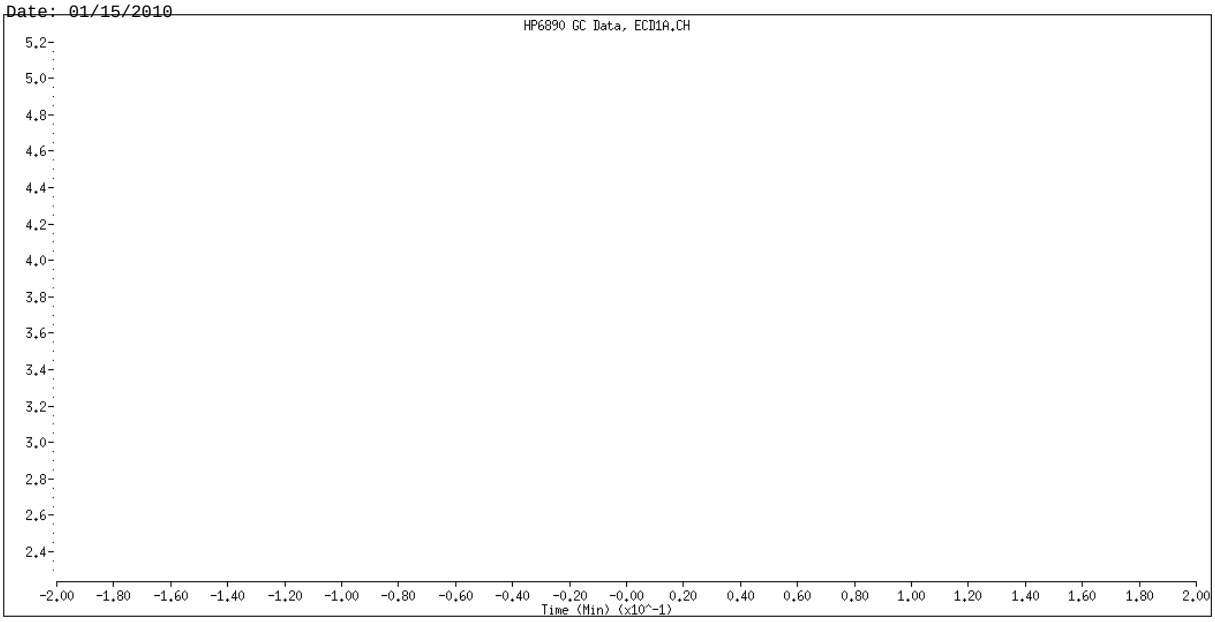
QC Flag Legend

M - Compound response manually integrated.

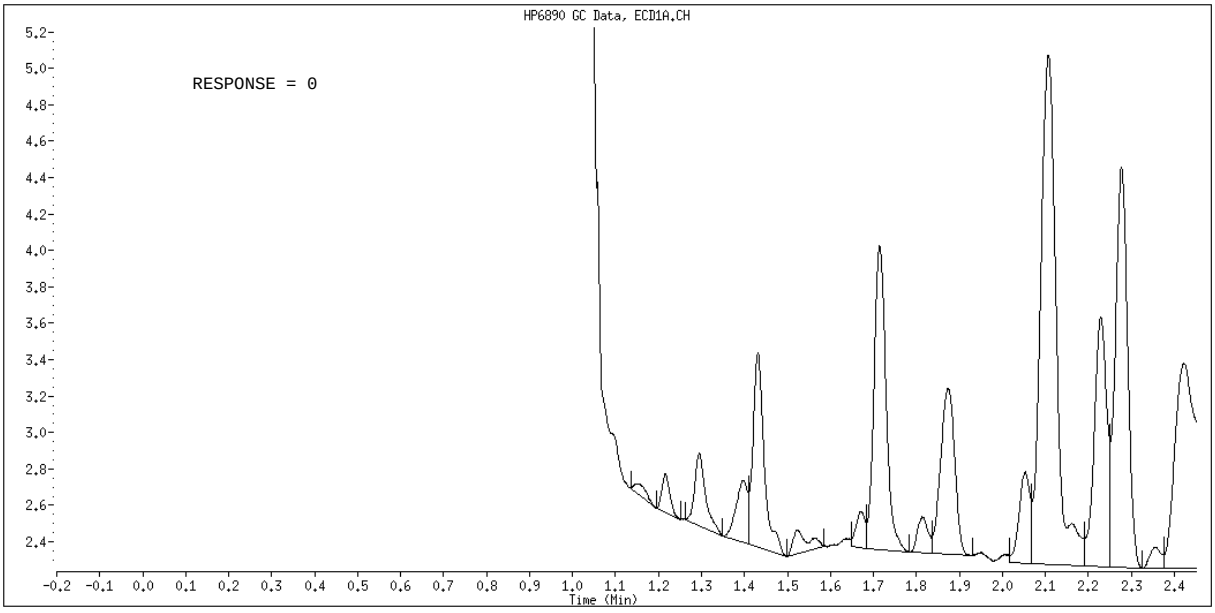
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\047F4701.D
Date : 08-JAN-2010 19:25
Client ID:
Instrument: a2hp13.i
Sample Info: 1242 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 047F4701.D
Inj. Date and Time: 08-JAN-2010 19:25
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1242
CAS #: 53469-21-9
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\049F4901.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\049F4901.D
Lab Smp Id: 2154 10ML MDL
Inj Date : 08-JAN-2010 19:56
Operator : Inst ID: a2hp13.i
Smp Info : 2154 10ML MDL
Misc Info : 2154 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

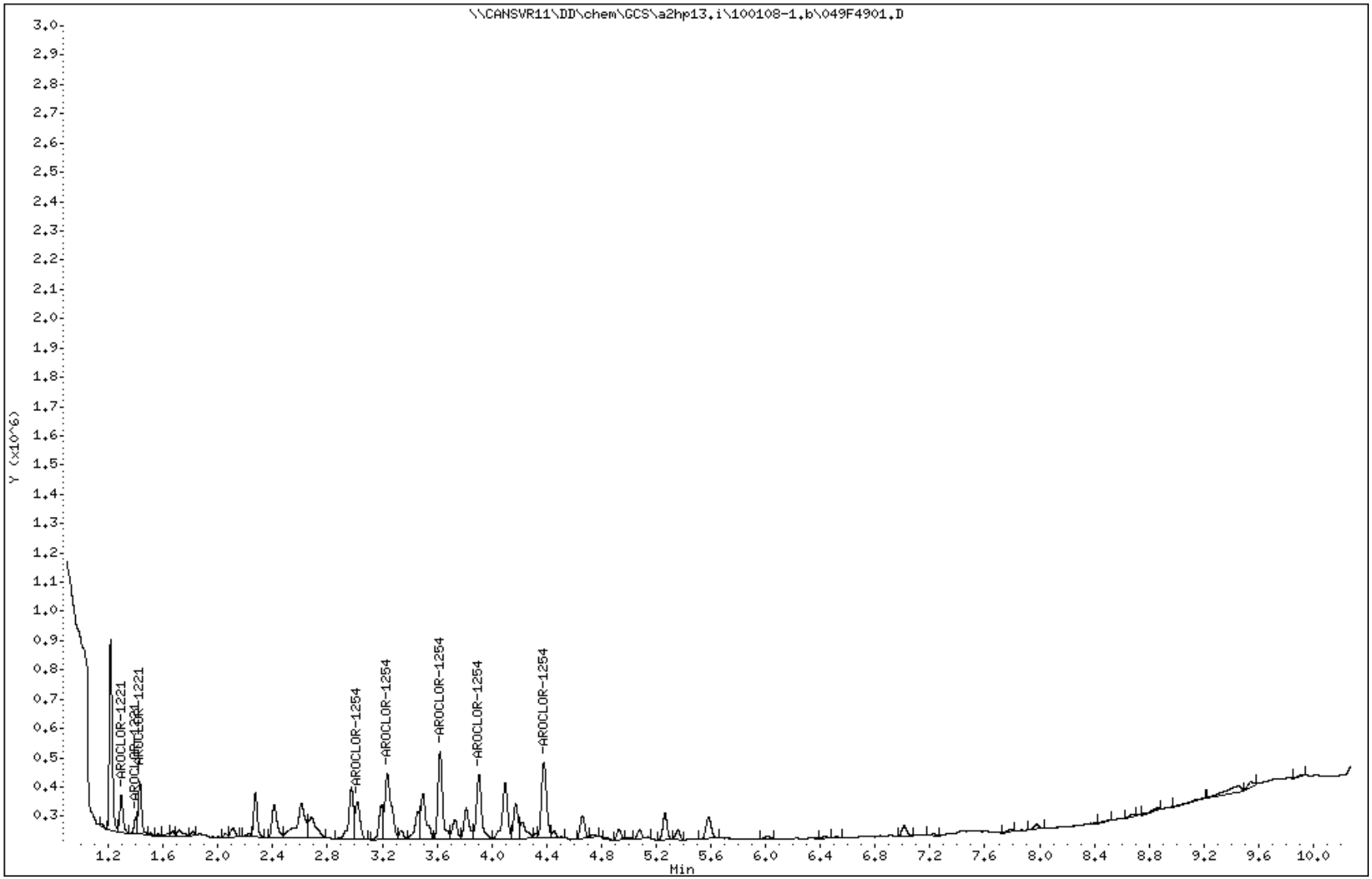
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
3.019	3.029	-0.010	129333	0.07972	26.57	80.00- 120.00	100.00
3.237	3.246	-0.009	226411	0.07944	26.48	130.23- 217.05	175.06
3.622	3.631	-0.009	297654	0.07730	25.77	167.10- 278.51	230.15
3.905	3.916	-0.011	219515	0.08025	26.75	132.69- 221.16	169.73
4.379	4.390	-0.011	256616	0.07721	25.74	160.10- 266.84	198.41
Average of Peak Concentrations =					26.26		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.294	1.289	0.005	126392	0.12293	40.98	80.00- 120.00	100.00(M)
1.400	1.397	0.003	56805	0.08340	27.80	81.56- 135.93	44.94
1.430	1.426	0.004	181395	0.07809	26.03	390.89- 651.48	143.52
Average of Peak Concentrations =					31.60		

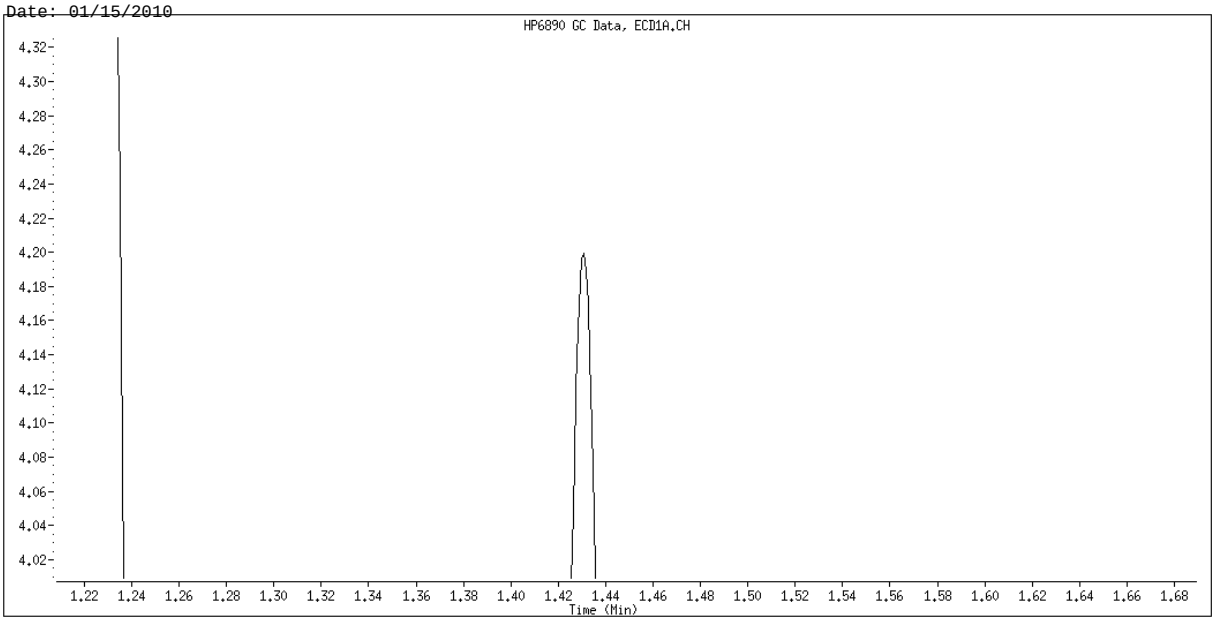
QC Flag Legend

M - Compound response manually integrated.

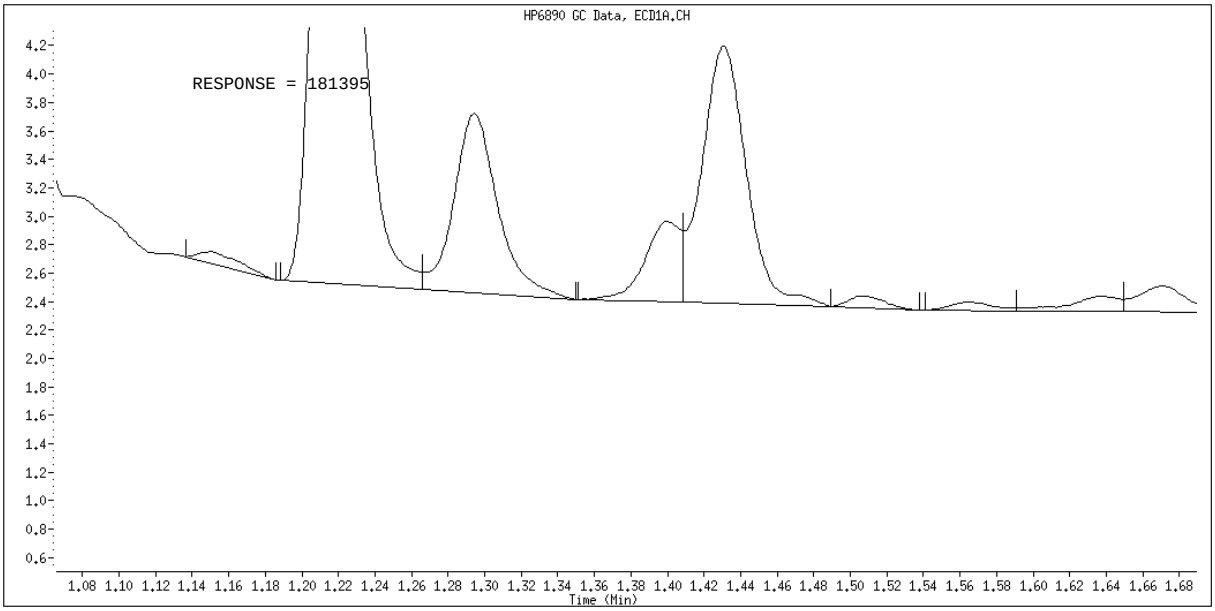
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\049F4901.D
Date : 08-JAN-2010 19:56
Client ID:
Instrument: a2hp13.i
Sample Info: 2154 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 049F4901.D
Inj. Date and Time: 08-JAN-2010 19:56
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Lab Smp Id: 1660 10ML MDL
Inj Date : 08-JAN-2010 20:11
Operator : Inst ID: a2hp13.i
Smp Info : 1660 10ML MDL
Misc Info : 1660 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.159	1.160	-0.001	396530	0.00359	1.198		(R)
3 AROCLOR-1016					CAS #: 12674-11-2		
1.430	1.430	0.000	239419	0.08788	29.29	80.00- 120.00	100.00(M)
1.713	1.712	0.001	392740	0.07903	26.34	136.81- 228.02	164.04
2.105	2.106	-0.001	856027	0.08136	27.12	292.74- 487.91	357.54
2.228	2.227	0.001	348417	0.08327	27.76	123.72- 206.19	145.53
2.612	2.609	0.003	0	0.0000	0.0000	115.22- 192.04	0.00
Average of Peak Concentrations =					27.63		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.813	3.813	0.000	221462	0.08071	26.90	80.00- 120.00	100.00
4.100	4.101	-0.001	322082	0.08228	27.42	109.03- 181.71	145.43
4.378	4.378	0.000	292567	0.08137	27.12	101.07- 168.46	132.11
5.079	5.079	0.000	447461	0.08023	26.74	156.54- 260.90	202.05
5.358	5.361	-0.003	231693	0.07837	26.12	81.79- 136.31	104.62
Average of Peak Concentrations =					26.86		

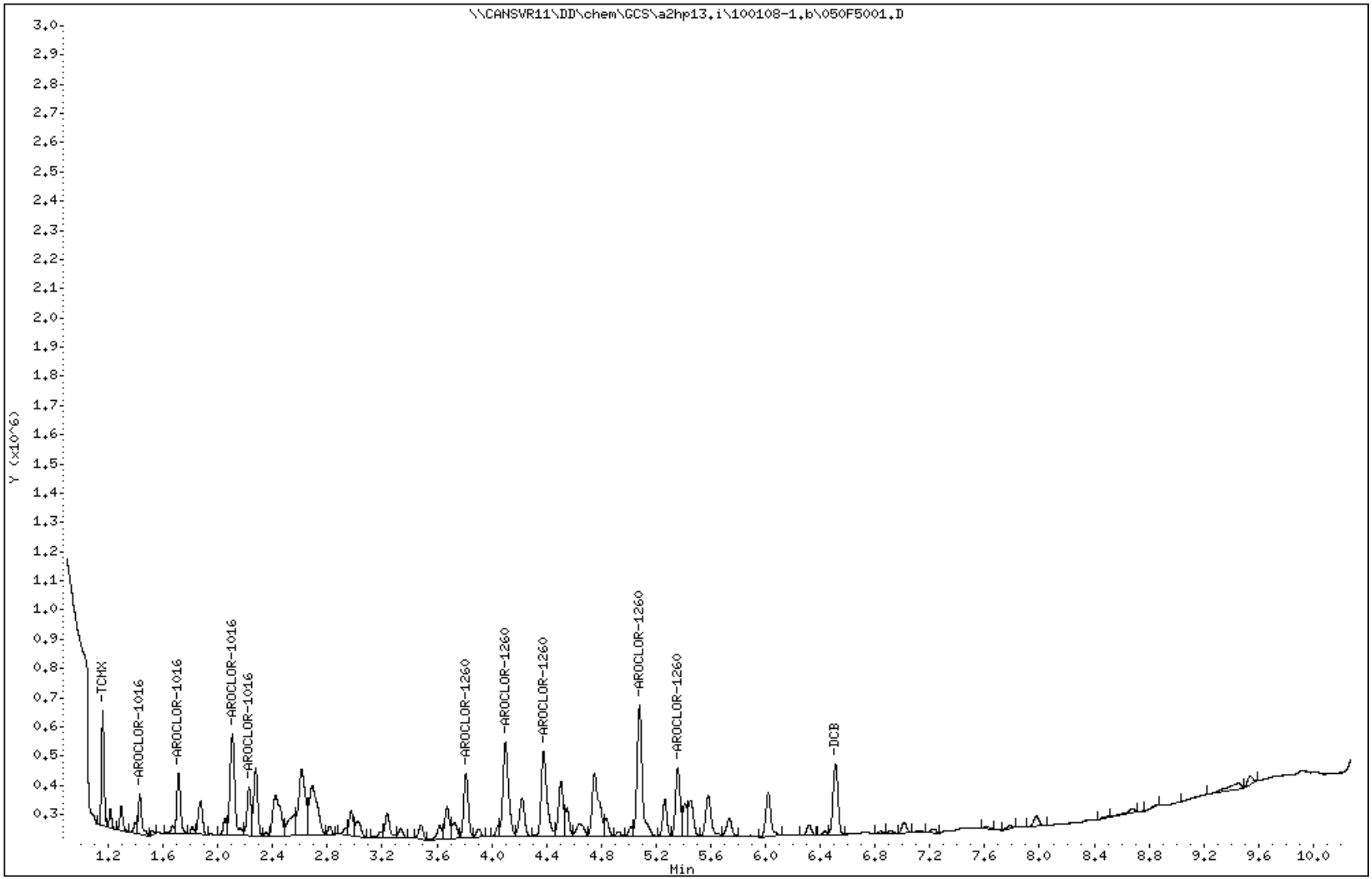
```
$   9 DCB                                       CAS #: 2051-24-3
6.510    6.510    0.000          242613 0.00424    1.413                       (R)
--------------------------------------------------------------------------------
```

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Report Date: 15-Jan-2010 10:04

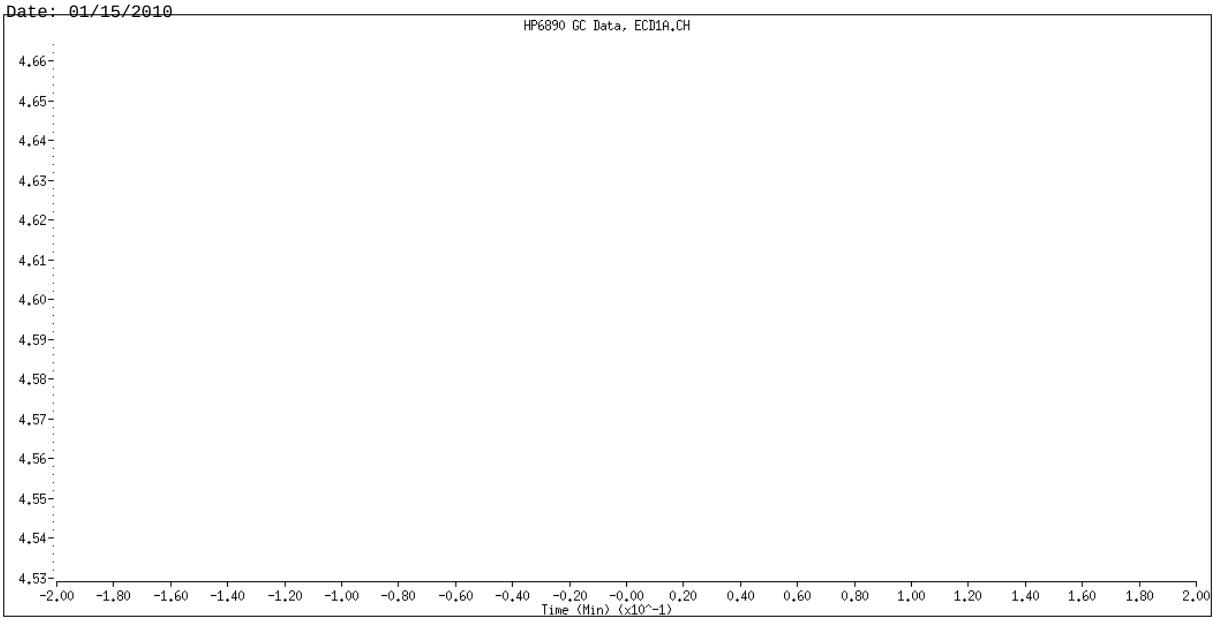
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

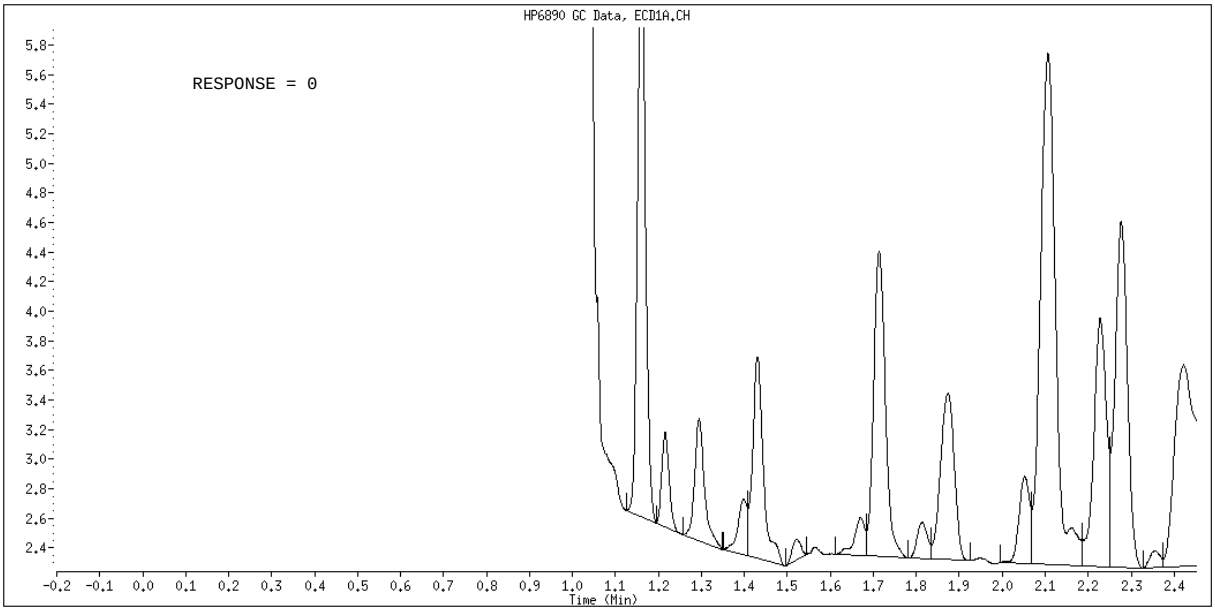
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Date : 08-JAN-2010 20:11
Client ID:
Instrument: a2hp13.i
Sample Info: 1660 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 050F5001.D
Inj. Date and Time: 08-JAN-2010 20:11
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\051F5101.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

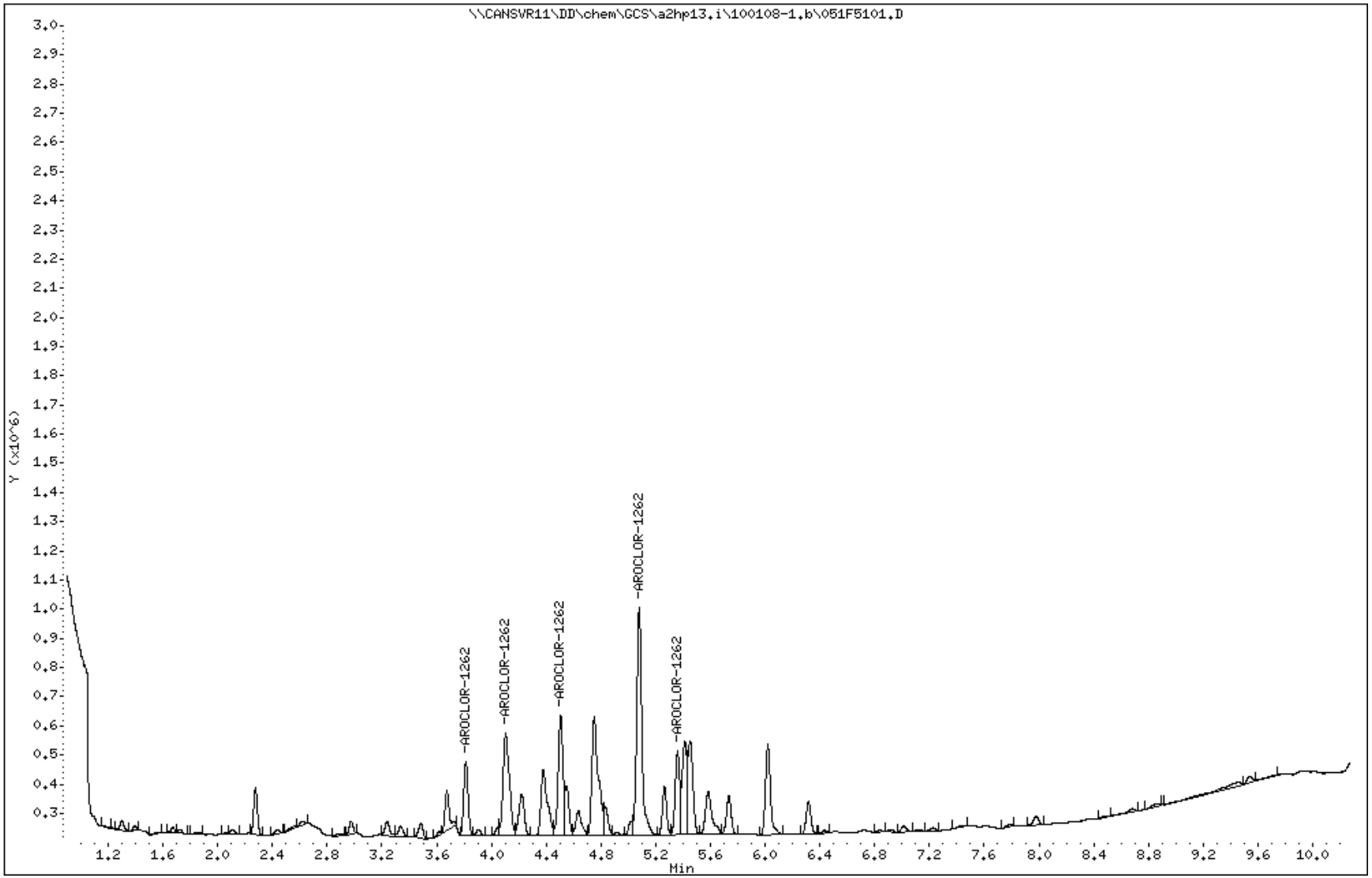
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\051F5101.D
Lab Smp Id: 1262 10ML MDL
Inj Date : 08-JAN-2010 20:25
Operator : Inst ID: a2hp13.i
Smp Info : 1262 10ML MDL
Misc Info : 1262 MDL VERIFICATION 10ML SOLID TV=33UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.812	3.823	-0.011	252831	0.11788	39.29	80.00- 120.00	100.00
4.103	4.108	-0.005	352323	0.12206	40.69	134.73- 224.56	139.35
4.506	4.466	0.040	410964	0.11973	39.91	19.79- 32.98	162.54
5.078	5.090	-0.012	782198	0.12139	40.46	22.34- 37.24	309.38
5.360	5.371	-0.011	285934	0.10442	34.80	22.90- 38.16	113.09
		Average of Peak Concentrations =			39.03		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\051F5101.D
Date : 08-JAN-2010 20:25
Client ID:
Instrument: a2hp13.i
Sample Info: 1262 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\052F5201.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

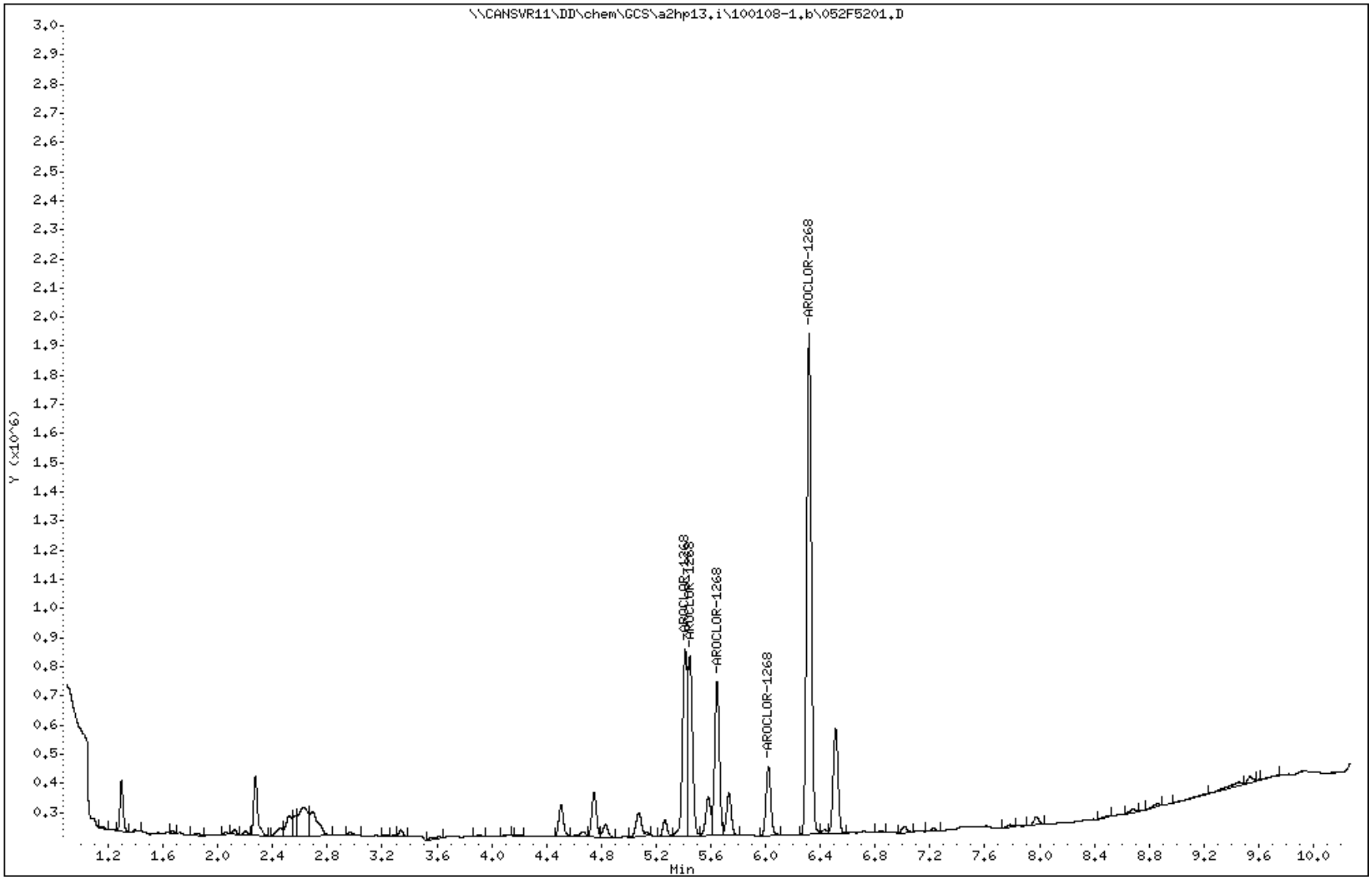
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\052F5201.D
Lab Smp Id: 1268 10ML MDL
Inj Date : 08-JAN-2010 20:40
Operator : Inst ID: a2hp13.i
Smp Info : 1268 10ML MDL
Misc Info : 1268 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 52
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.411	5.404	0.007	640686	0.07523	25.08	80.00- 120.00	100.00
5.446	5.445	0.001	619856	0.07705	25.68	79.82- 133.03	96.75
5.646	5.638	0.008	526758	0.07746	25.82	3.44- 5.74	82.22
6.021	6.014	0.007	238506	0.08326	27.75	80.73- 134.55	37.23
6.316	6.309	0.007	1720021	0.08044	26.81	21.06- 35.09	268.47
		Average of Peak Concentrations =			26.23		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\052F5201.D
Date : 08-JAN-2010 20:40
Client ID:
Instrument: a2hp13.i
Sample Info: 1268 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Report Date: 15-Jan-2010 10:05

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PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Lab Smp Id: BLANK 10ML MDL
Inj Date : 08-JAN-2010 20:56
Operator : Inst ID: a2hp13.i
Smp Info : BLANK 10ML MDL
Misc Info : BLANK MDL VERIFICATION 10ML SOLID
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 53
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.169	1.160	0.009	7327	7e-005	0.02214		(R)
2 AROCLOR-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Report Date: 15-Jan-2010 10:05

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

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6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

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7 AROCLOR-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

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8 AROCLOR-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

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13 AROCLOR-1262 CAS #: 37324-23-5

Peaks not detected for Quant. or Qual. signal(s).

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14 AROCLOR-1268 CAS #: 11100-14-4

Peaks not detected for Quant. or Qual. signal(s).

M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

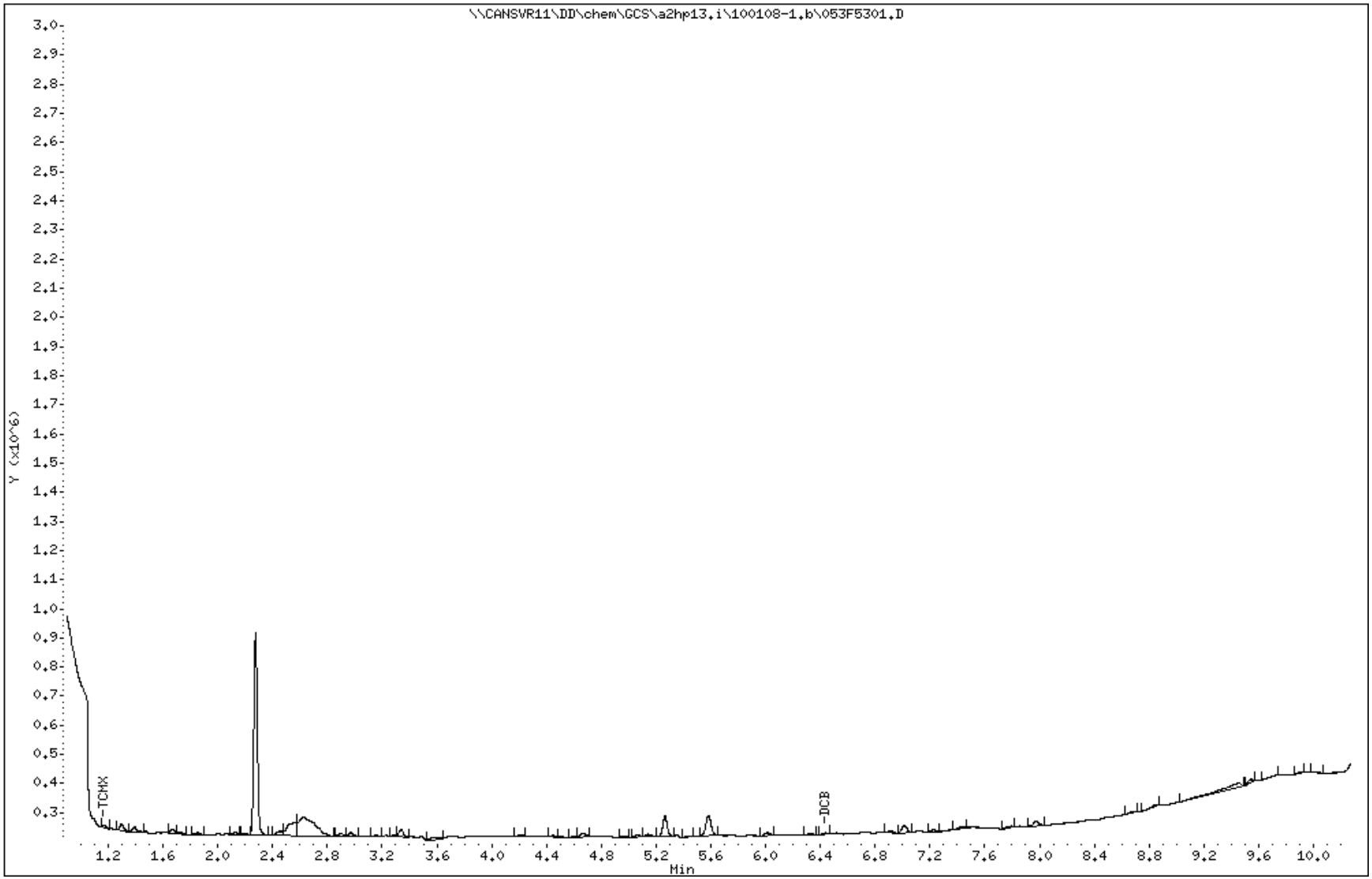
$ 9 DCB CAS #: 2051-24-3

6.436 6.510 -0.074 5218 9e-005 0.03039 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Date : 08-JAN-2010 20:56
Client ID:
Instrument: a2hp13.i
Sample Info: BLANK 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\007F0701.D
Report Date: 18-Jan-2010 08:56

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\007F0701.D
Lab Smp Id: 1248 10ML MDL
Inj Date : 18-JAN-2010 08:23
Operator : Inst ID: a2hp13.i
Smp Info : 1248 10ML MDL
Misc Info : 1248 MDL VERIFICATION 10ML SOLID TV=24.75 UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\PCB13.m
Meth Date : 18-Jan-2010 08:15 Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

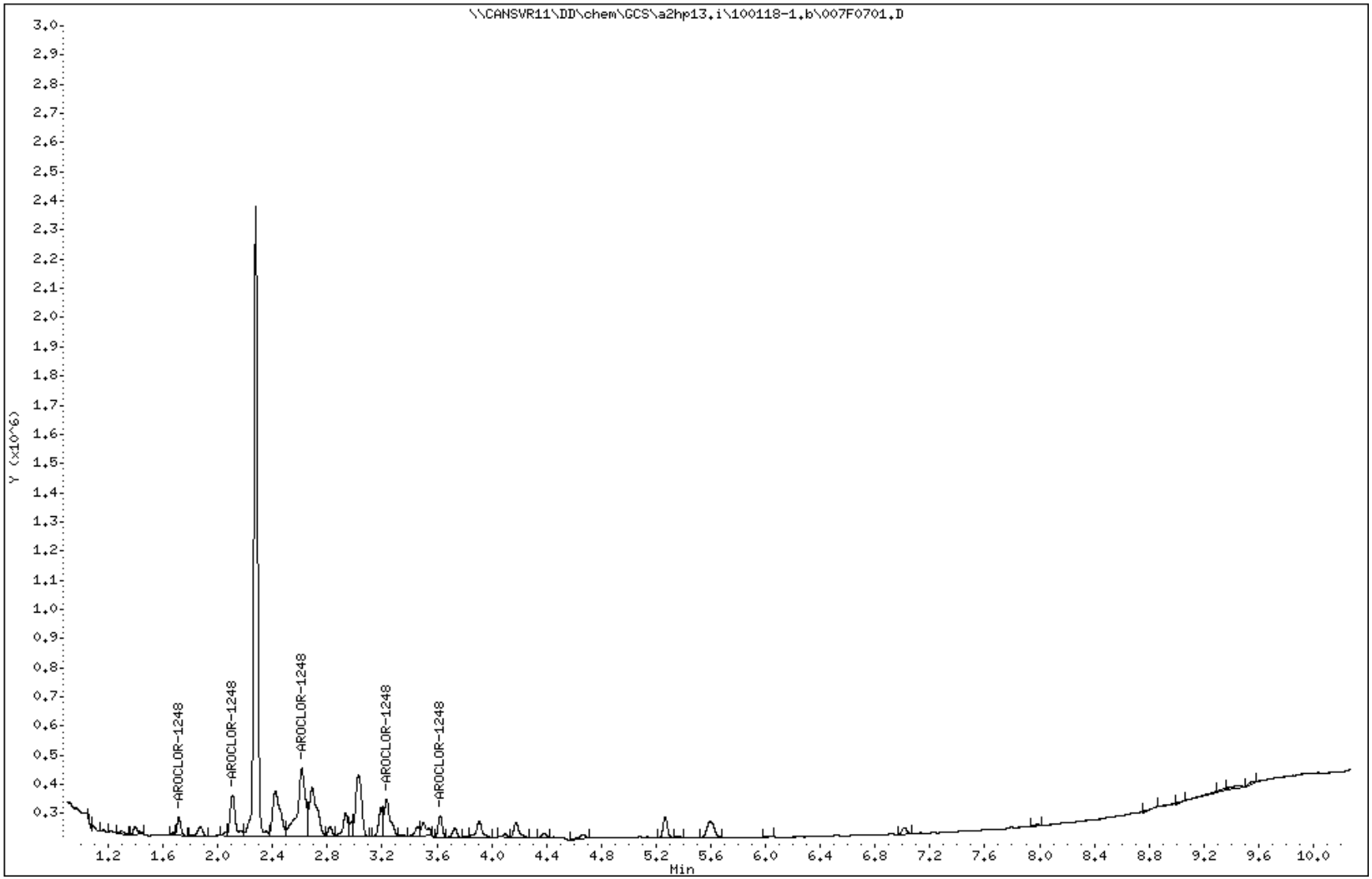
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.714	1.722	-0.008	60906	0.05552	18.51	80.00- 120.00	100.00(M)
2.107	2.116	-0.009	140523	0.06078	20.26	117.36- 195.60	230.72
2.612	2.617	-0.005	230617	0.09679	32.26	289.59- 482.65	378.64
3.232	3.246	-0.014	128809	0.06822	22.74	981.77-1636.28	211.49
3.623	3.631	-0.008	73593	0.06068	20.23	1374.25-2290.42	120.83
Average of Peak Concentrations =					22.80		

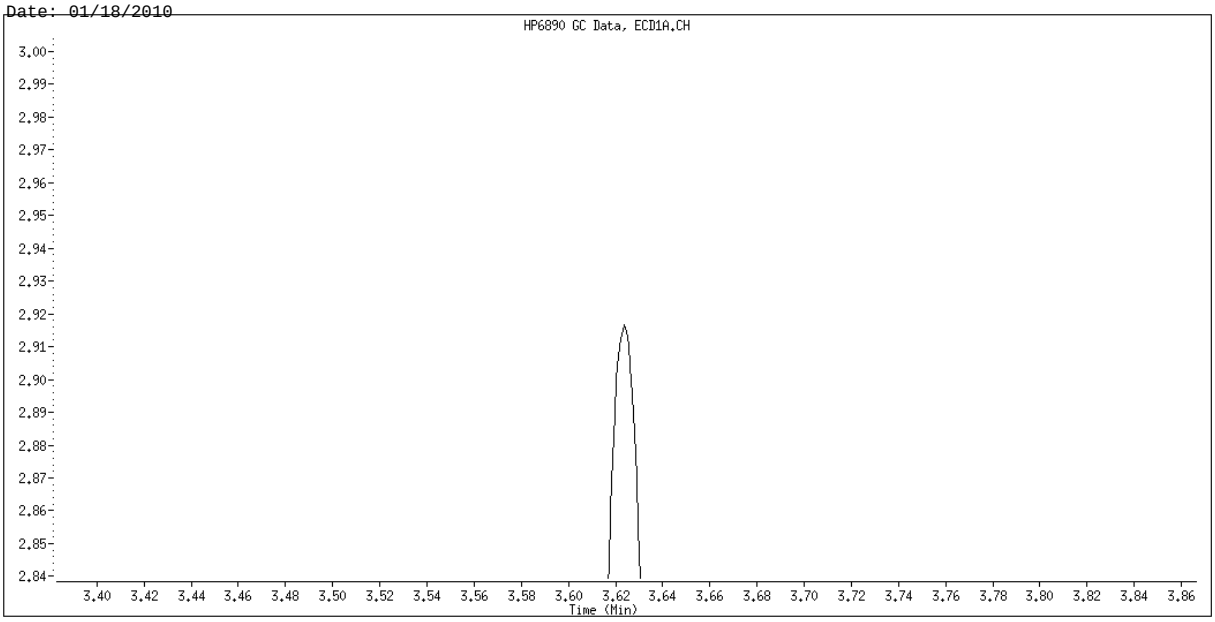
QC Flag Legend

M - Compound response manually integrated.

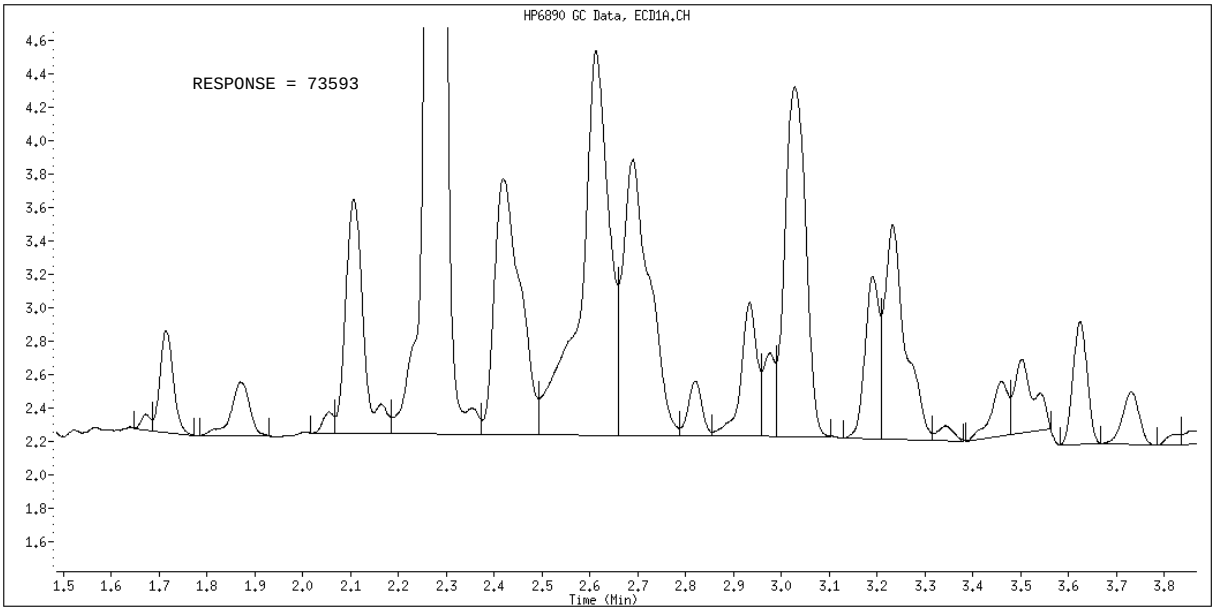
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\007F0701.D
Date : 18-JAN-2010 08:23
Client ID:
Instrument: a2hp13.i
Sample Info: 1248 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 007F0701.D
Inj. Date and Time: 18-JAN-2010 08:23
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1248
CAS #: 12672-29-6
Report Date: 01/18/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Report Date: 18-Jan-2010 08:57

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Lab Smp Id: BLANK 10ML
Inj Date : 18-JAN-2010 08:38
Operator : Inst ID: a2hp13.i
Smp Info : BLANK 10ML
Misc Info : BLANK MDL VERIFICATION 10ML SOLID
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\PCB13.m
Meth Date : 18-Jan-2010 08:15 Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.085	1.151	-0.066	30942	0.00028	0.09350		(R)
2 AROCLOR-1221					CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).							
3 AROCLOR-1016					CAS #: 12674-11-2		
Compound Not Detected							
4 AROCLOR-1232					CAS #: 11141-16-5		
Compound Not Detected							

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Report Date: 18-Jan-2010 08:57

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

---

6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

8 AROCLOR-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

13 AROCLOR-1262 CAS #: 37324-23-5

Peaks not detected for Quant. or Qual. signal(s).

---

14 AROCLOR-1268 CAS #: 11100-14-4

Peaks not detected for Quant. or Qual. signal(s).

M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

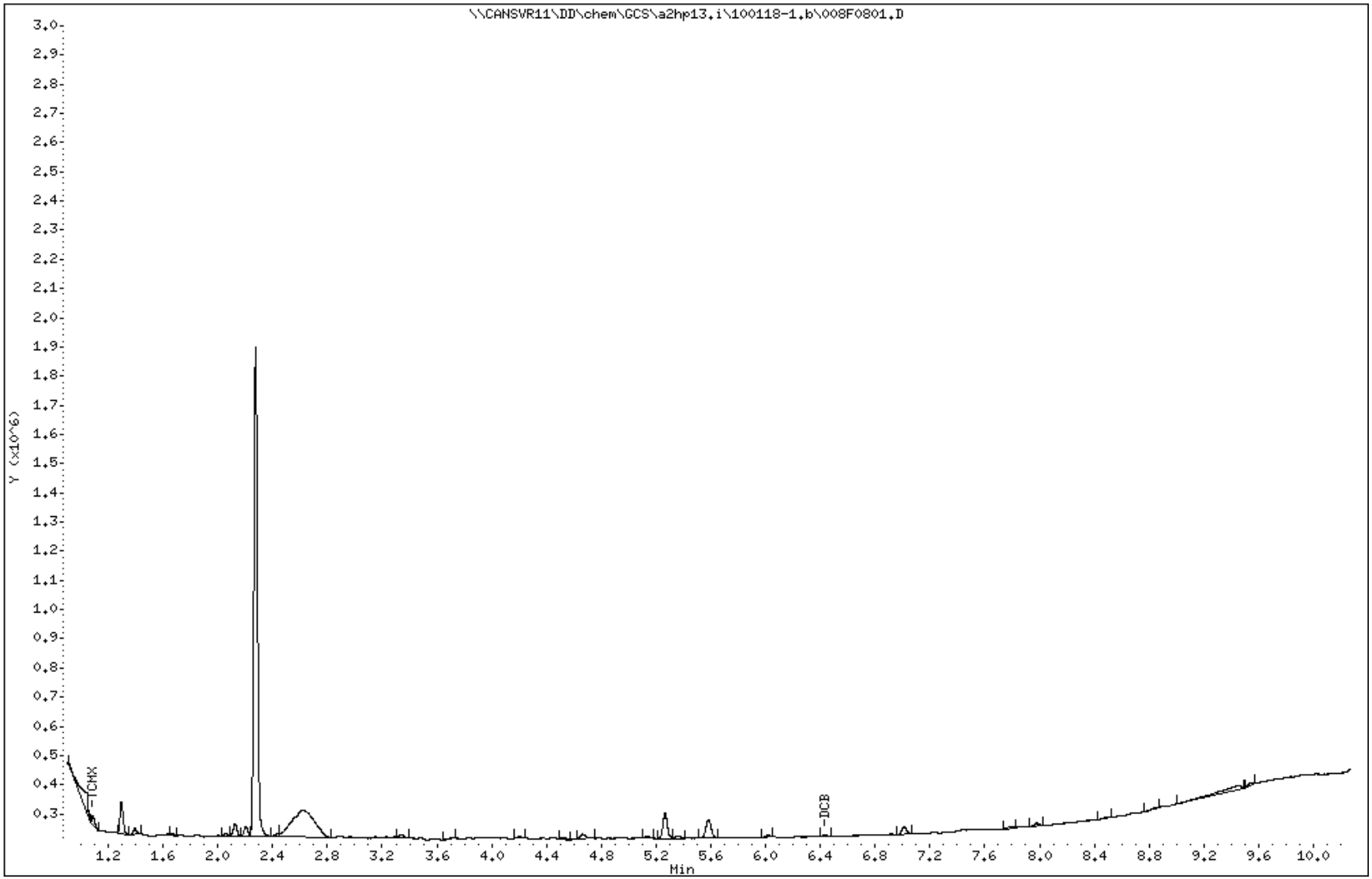
$ 9 DCB CAS #: 2051-24-3

6.439 6.504 -0.065 4429 8e-005 0.02580 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Date : 18-JAN-2010 08:38
Client ID:
Instrument: a2hp13.i
Sample Info: BLANK 10ML
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWET81AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C090000-033
Prep Date.....: 03/09/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0068033
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**79**	**(40 - 140)**	**SW846 8082**
Aroclor 1260	**89**	**(60 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(10 - 196)
Decachlorobiphenyl	101	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWET81AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C090000-033
Prep Date.....: 03/09/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0068033
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**330**	**260**	**ug/kg**	**79**	**SW846 8082**
Aroclor 1260	**330**	**300**	**ug/kg**	**89**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(10 - 196)
Decachlorobiphenyl	101	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\013F1301.D
Lab Smp Id: LWET81AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 11-MAR-2010 15:38
Operator : Inst ID: a2hp13.i
Smp Info : LWET81AC
Misc Info : 12-AR1660TD.SUB,SLCS.SPK
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Meth Date : 11-Mar-2010 21:43 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 13 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

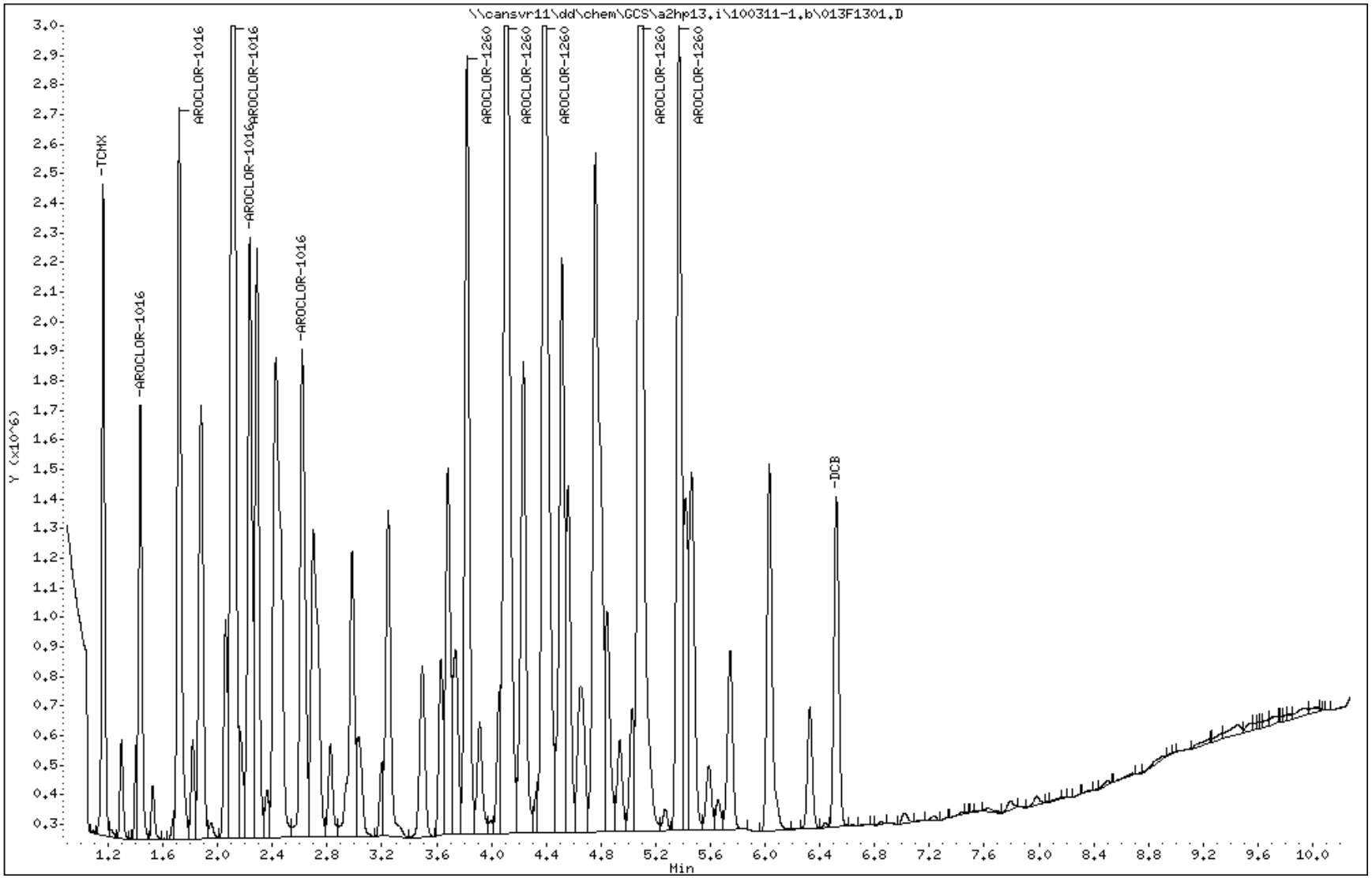
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.161	0.001	2202865	0.01773	5.910		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.434	1.433	0.001	2484304	0.69853	232.8	80.00- 120.00	100.00(M)
1.717	1.716	0.001	5023270	0.81620	272.1	133.43- 222.39	202.20
2.113	2.112	0.001	10386147	0.80024	266.7	291.60- 486.00	418.07
2.234	2.233	0.001	4454878	0.83645	278.8	117.70- 196.17	179.32
2.617	2.616	0.001	4321354	0.81481	271.6	115.39- 192.32	173.95
Average of Peak Concentrations =					264.4		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.821	3.821	0.000	2629796	0.87127	290.4	80.00- 120.00	100.00(M)
4.110	4.111	-0.001	3769113	0.89178	297.3	105.00- 175.01	143.32
4.388	4.388	0.000	3716984	0.96524	321.7	96.41- 160.68	141.34
5.089	5.089	0.000	4707941	0.81773	272.6	151.57- 252.62	179.02
5.370	5.371	-0.001	2735107	0.89195	297.3	79.78- 132.96	104.00
Average of Peak Concentrations =					295.9		

```
$   9 DCB                                       CAS #: 2051-24-3
6.520    6.520    0.000         1116907 0.02013    6.712
--------------------------------------------------------------------------------
```

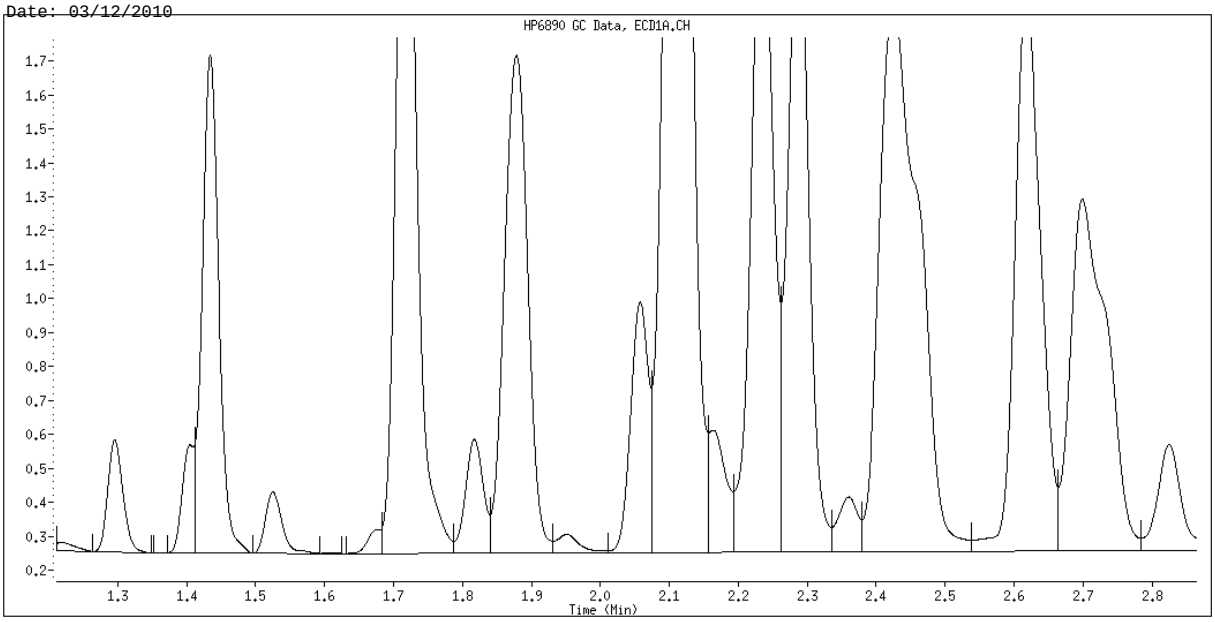
QC Flag Legend

M - Compound response manually integrated.

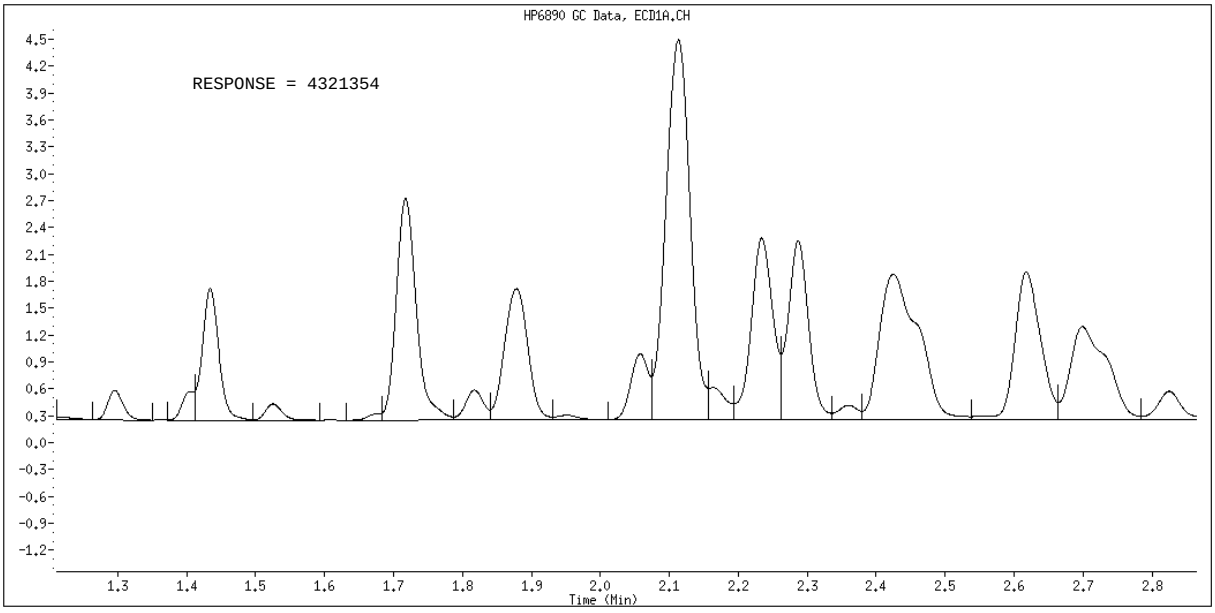
Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\013F1301.D
Date : 11-MAR-2010 15:38
Client ID: INTRA-LAB CHECK
Instrument: a2hp13.i
Sample Info: LWET81AC
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 013F1301.D
Inj. Date and Time: 11-MAR-2010 15:38
Instrument ID: a2hp13.i
Client ID: INTRA-LAB CHECK
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/12/2010



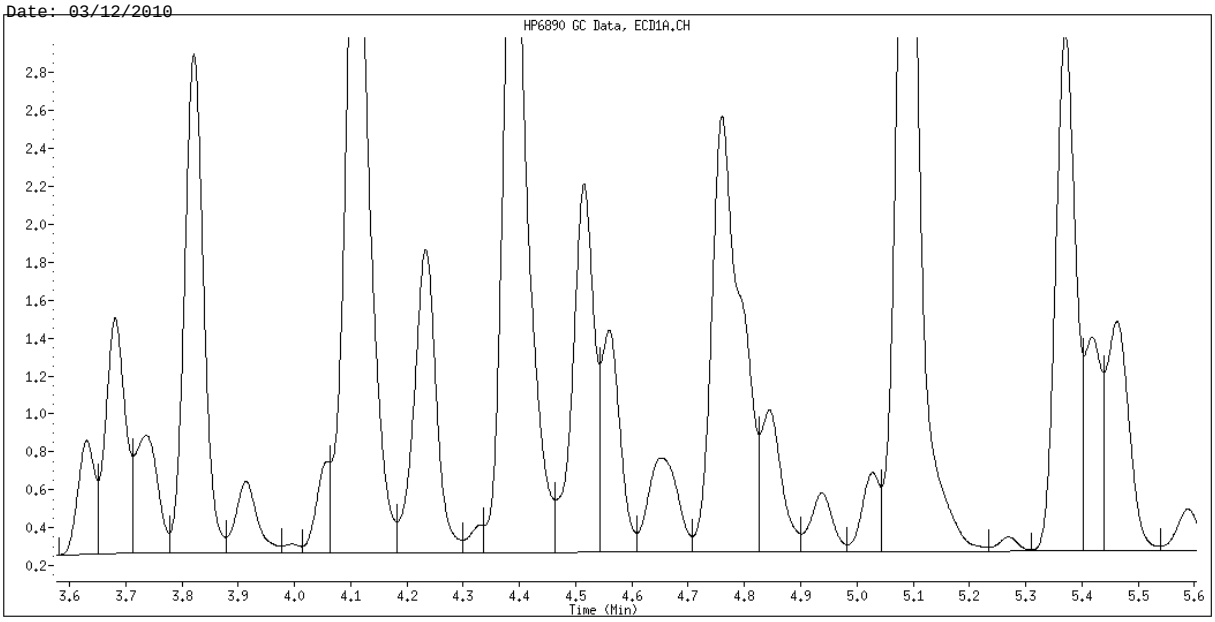
Original Integration



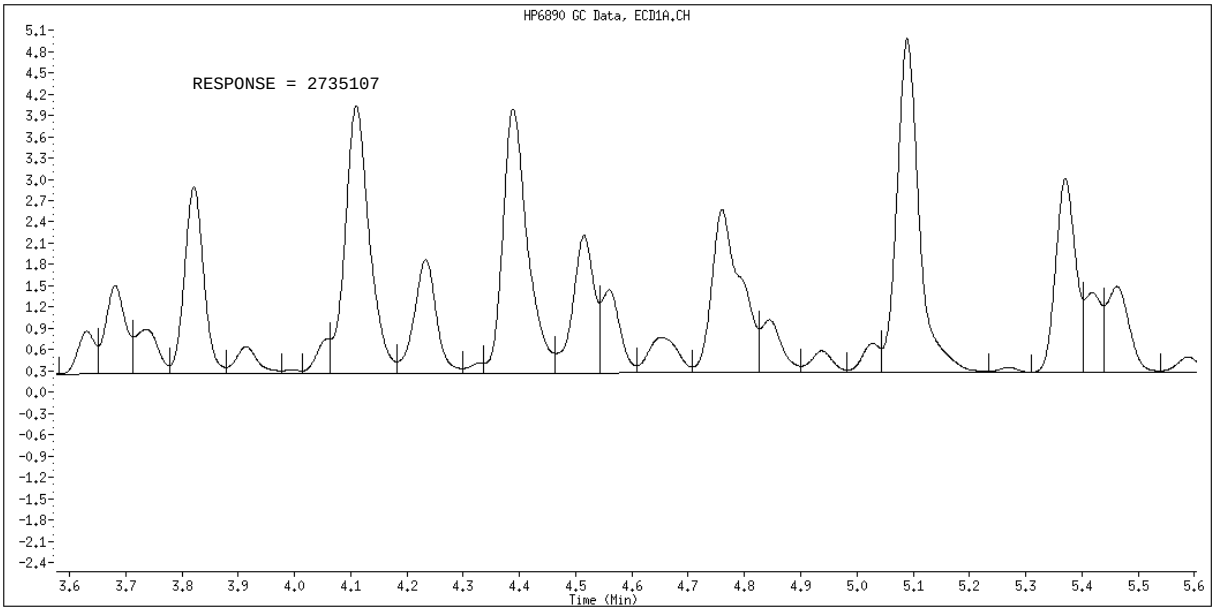
Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

Data File Name: 013F1301.D
Inj. Date and Time: 11-MAR-2010 15:38
Instrument ID: a2hp13.i
Client ID: INTRA-LAB CHECK
Compound Name: AROCLOR-1260
CAS #: 11096-82-5
Report Date: 03/12/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWET81AA **Matrix.....:** SOLID
MB Lot-Sample #: A0C090000-033

Prep Date.....: 03/09/10 **Final Wgt/Vol..:** 10 mL
Analysis Date..: 03/11/10 **Prep Batch #...:** 0068033
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(10 - 196)
Decachlorobiphenyl	88	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\012F1201.D
Lab Smp Id: LWET81AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 11-MAR-2010 15:23
Operator : Inst ID: a2hp13.i
Smp Info : LWET81AA
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Meth Date : 11-Mar-2010 14:16 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 12 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.154	0.008	2068146	0.01665	5.549		

2 AROCLOR-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

---

6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Compound Not Detected

---

8 AROCLOR-1260 CAS #: 11096-82-5

Compound Not Detected

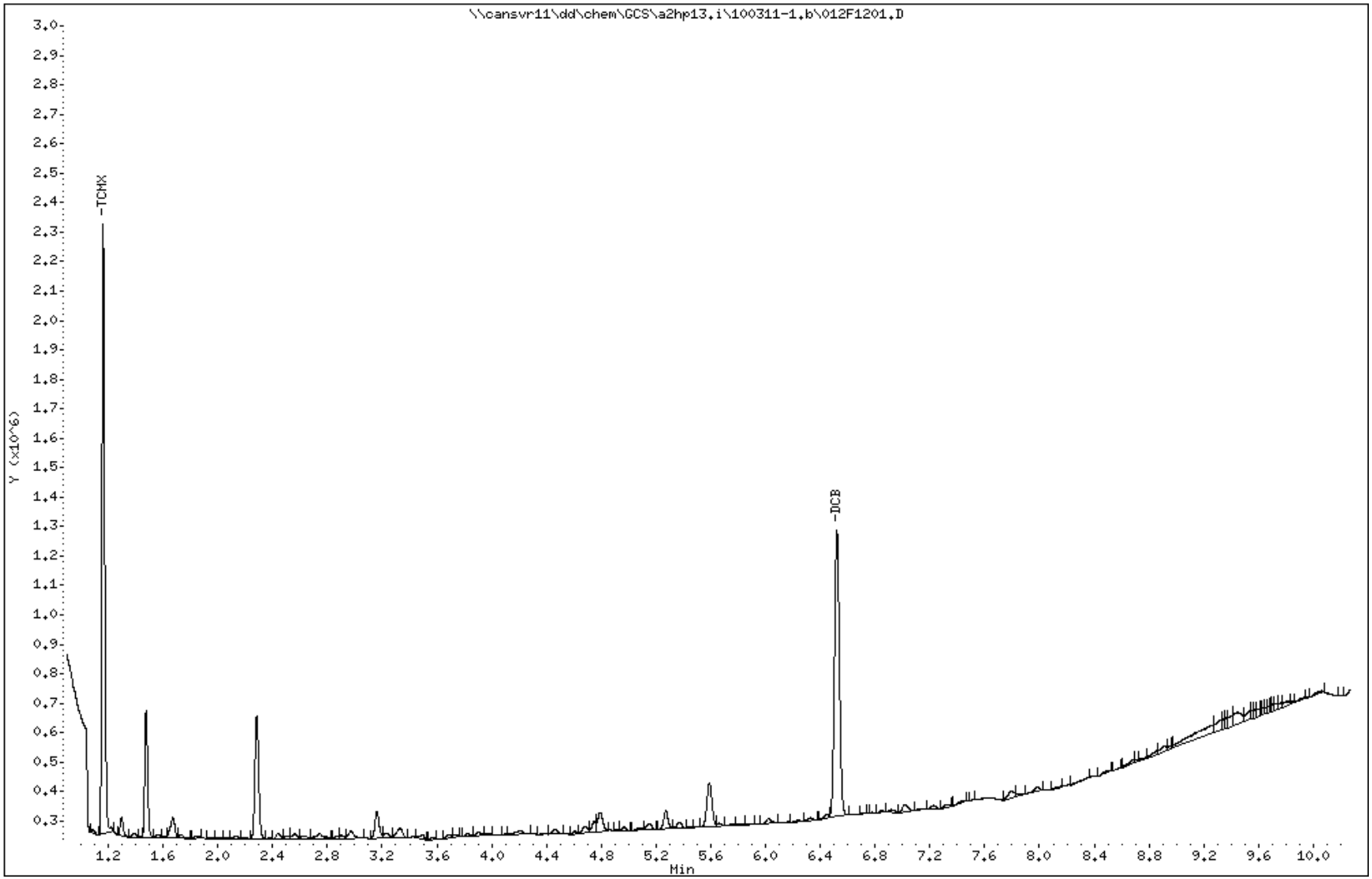
M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

$ 9 DCB CAS #: 2051-24-3

6.521	6.516	0.005	970869	0.01750	5.834		

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\012F1201.D
Date : 11-MAR-2010 15:23
Client ID: INTRA-LAB BLANK
Instrument: a2hp13.i
Sample Info: LWET81AA
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CG-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CH-MSD
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0068033
Dilution Factor: 1 **Initial Wgt/Vol:** 30.07 g **Final Wgt/Vol..:** 10 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**69**	**(40 - 140)**			**SW846 8082**
	69	**(40 - 140)**	**0.30**	**(0-39)**	**SW846 8082**
Aroclor 1260	**74**	**(60 - 130)**			**SW846 8082**
	76	**(60 - 130)**	**1.5**	**(0-33)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	74	(10 - 196)
	79	(10 - 196)
Decachlorobiphenyl	85	(10 - 199)
	85	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CG-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CH-MSD
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0068033
Dilution Factor: 1 **Initial Wgt/Vol:** 30.07 g **Final Wgt/Vol..:** 10 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**410**	**280**	**ug/kg**	**69**		**SW846 8082**
	ND	**410**	**280**	**ug/kg**	**69**	**0.30**	**SW846 8082**
Aroclor 1260	**ND**	**410**	**300**	**ug/kg**	**74**		**SW846 8082**
	ND	**410**	**310**	**ug/kg**	**76**	**1.5**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	74	(10 - 196)
	79	(10 - 196)
Decachlorobiphenyl	85	(10 - 199)
	85	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\009F0901.D
Lab Smp Id: LWCWJ1CG Client Smp ID: LL6SB-069-5222-SO
Inj Date : 11-MAR-2010 14:39
Operator : Inst ID: a2hp13.i
Smp Info : LWCWJ1CG
Misc Info : 12-AR1660TD.SUB,SMS.SPK
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Meth Date : 11-Mar-2010 21:43 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

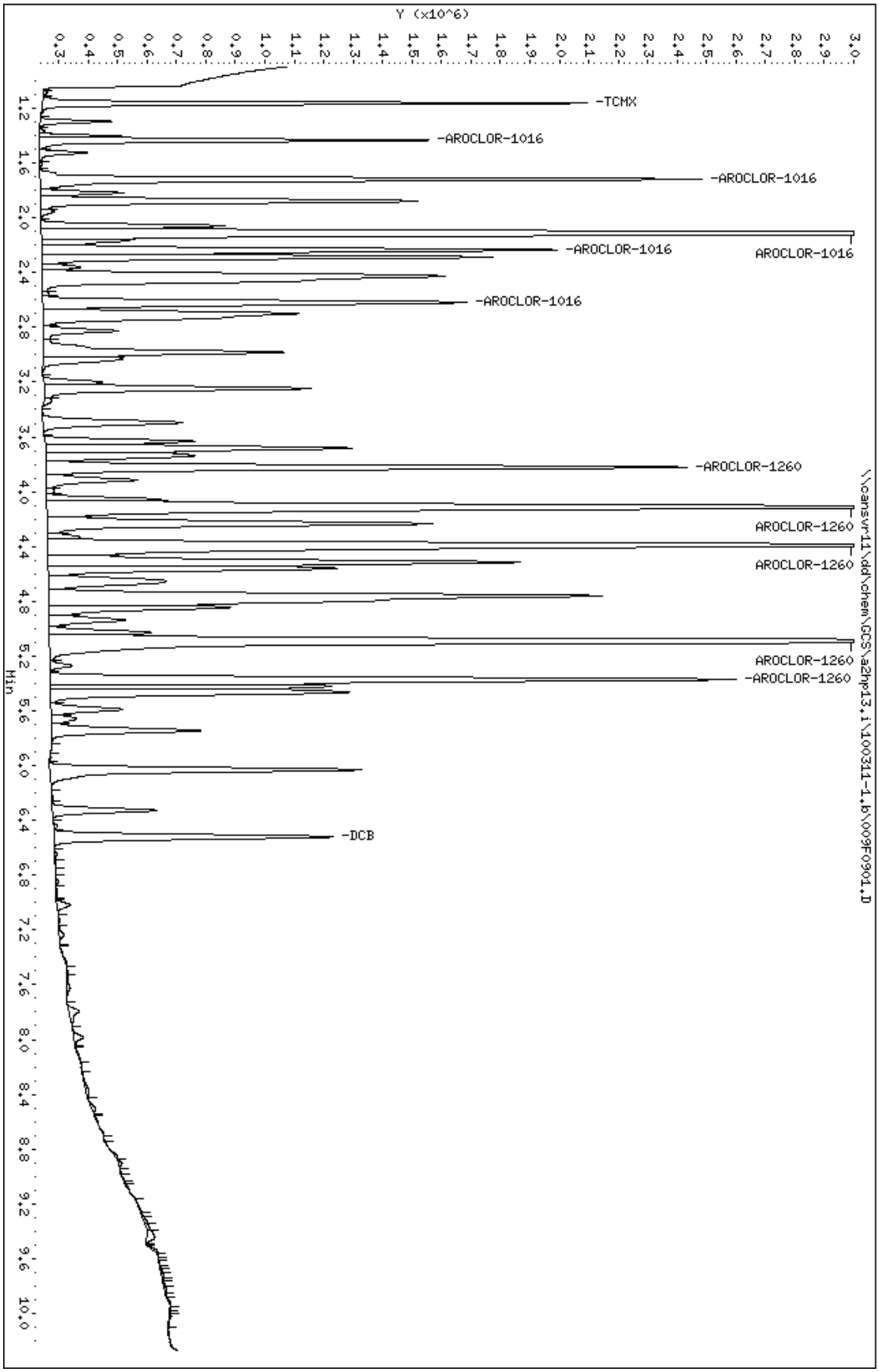
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.070	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.163	1.161	0.002	1849473	0.01489	4.951		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.433	1.433	0.000	2196681	0.61765	205.4	80.00- 120.00	100.00(M)
1.718	1.716	0.002	4495920	0.73052	242.9	133.43- 222.39	204.67
2.113	2.112	0.001	8960818	0.69042	229.6	291.60- 486.00	407.93
2.233	2.233	0.000	3790537	0.71171	236.7	117.70- 196.17	172.56
2.617	2.616	0.001	3647539	0.68776	228.7	115.39- 192.32	166.05
Average of Peak Concentrations =					228.7		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.822	3.821	0.001	2175877	0.72089	239.7	80.00- 120.00	100.00(M)
4.110	4.111	-0.001	3149208	0.74511	247.8	105.00- 175.01	144.73
4.388	4.388	0.000	3133142	0.81362	270.6	96.41- 160.68	143.99
5.089	5.089	0.000	3941517	0.68461	227.7	151.57- 252.62	181.15
5.371	5.371	0.000	2330096	0.75987	252.7	79.78- 132.96	107.09
Average of Peak Concentrations =					247.7		

```
$   9 DCB                                       CAS #: 2051-24-3
6.520    6.520    0.000          947406 0.01708    5.680
--------------------------------------------------------------------------------
```

QC Flag Legend

M - Compound response manually integrated.


Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\009F0901.D
Date : 11-MAR-2010 14:39
Client ID: LL6SB-069-5222-SO
Sample Info: LWCWJ1CC
Volume Injected (uL): 1.0
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
Min
-TCMX
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
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-AROCLOR-1260
-DCB
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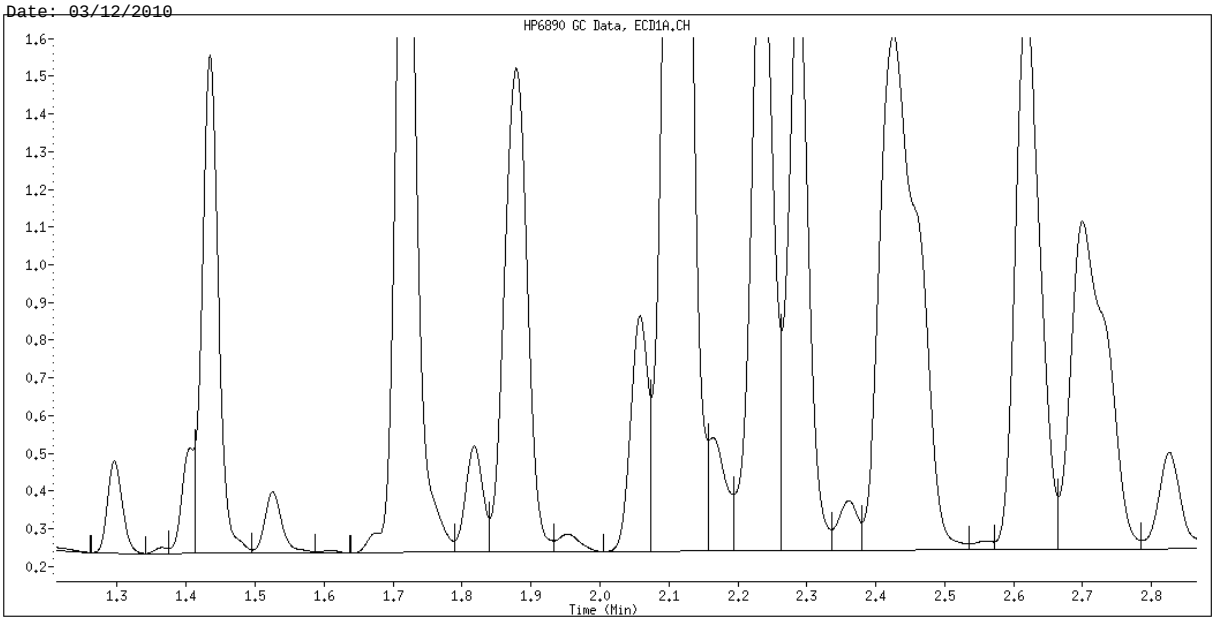
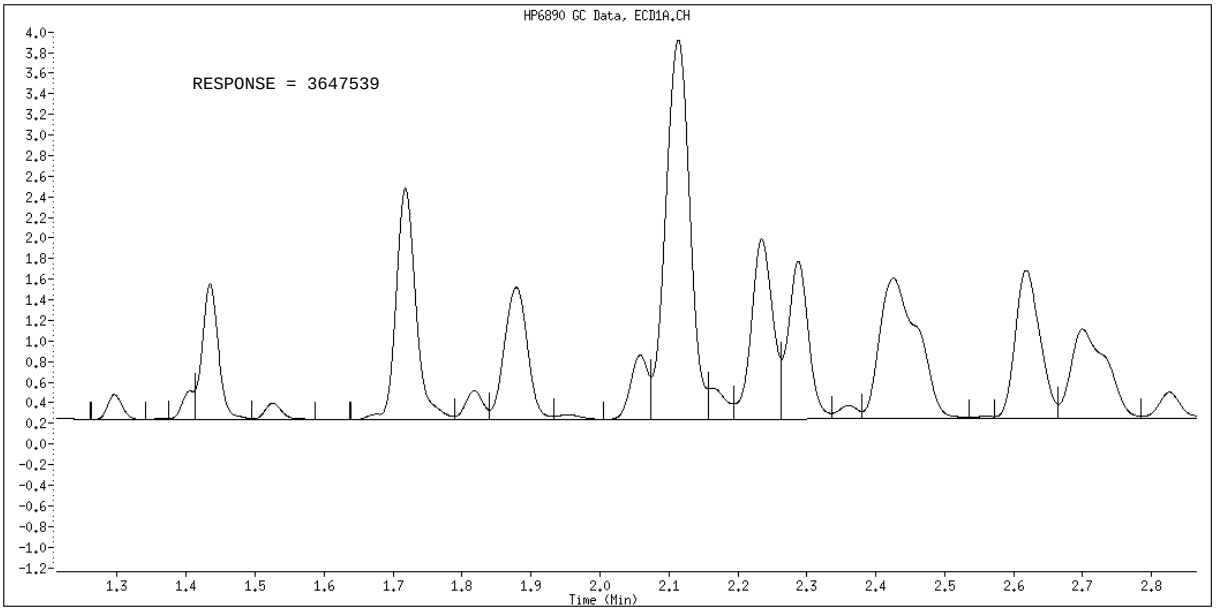
Data File Name: 009F0901.D
Inj. Date and Time: 11-MAR-2010 14:39
Instrument ID: a2hp13.i
Client ID: LL6SB-069-5222-SO
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/12/2010



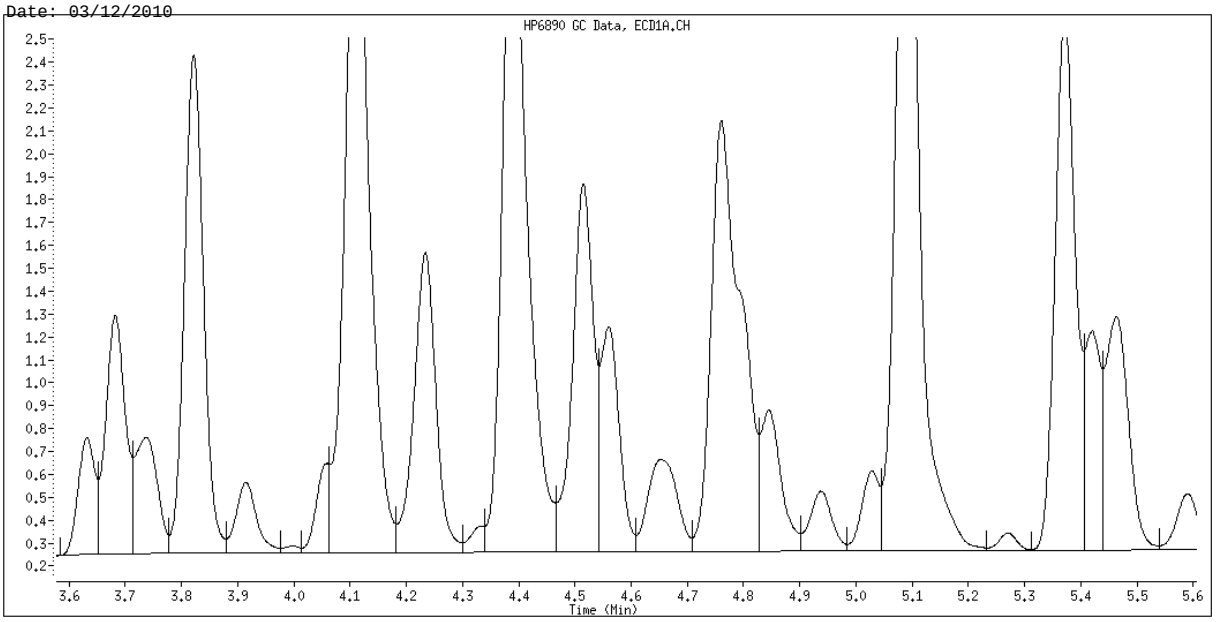
Original Integration



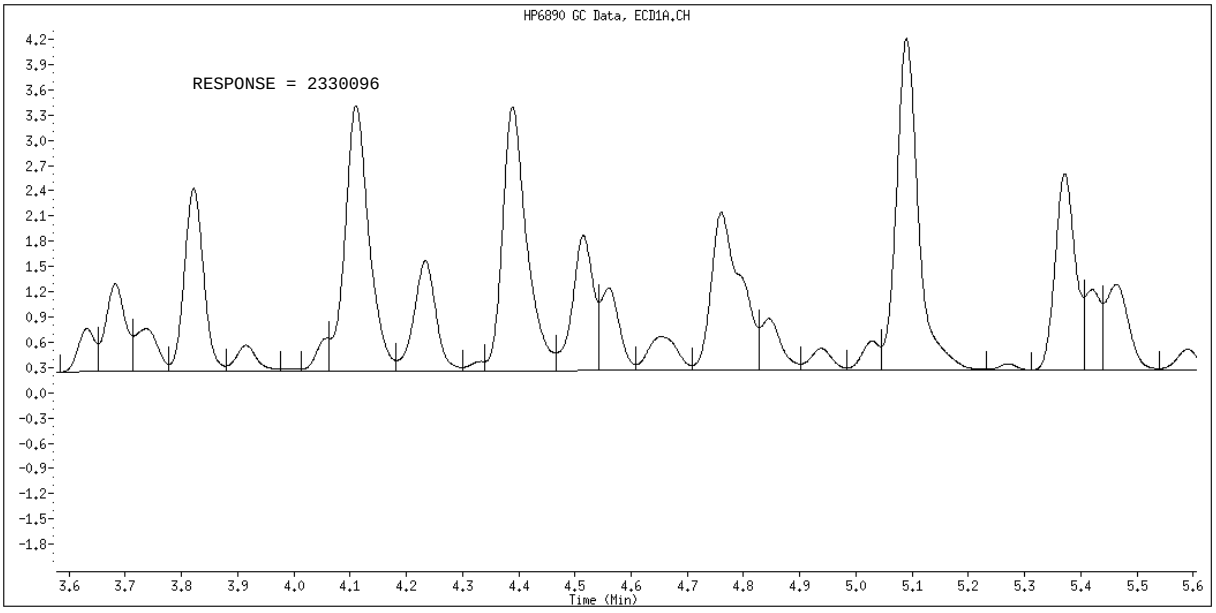
Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

Data File Name: 009F0901.D
Inj. Date and Time: 11-MAR-2010 14:39
Instrument ID: a2hp13.i
Client ID: LL6SB-069-5222-SO
Compound Name: AROCLOR-1260
CAS #: 11096-82-5
Report Date: 03/12/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\010F1001.D
Lab Smp Id: LWCWJ1CH Client Smp ID: LL6SB-069-5222-SO
Inj Date : 11-MAR-2010 14:54
Operator : Inst ID: a2hp13.i
Smp Info : LWCWJ1CH
Misc Info : 12-AR1660TD.SUB,SMS.SPK
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100311-1.b\PCB13.m
Meth Date : 11-Mar-2010 21:43 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

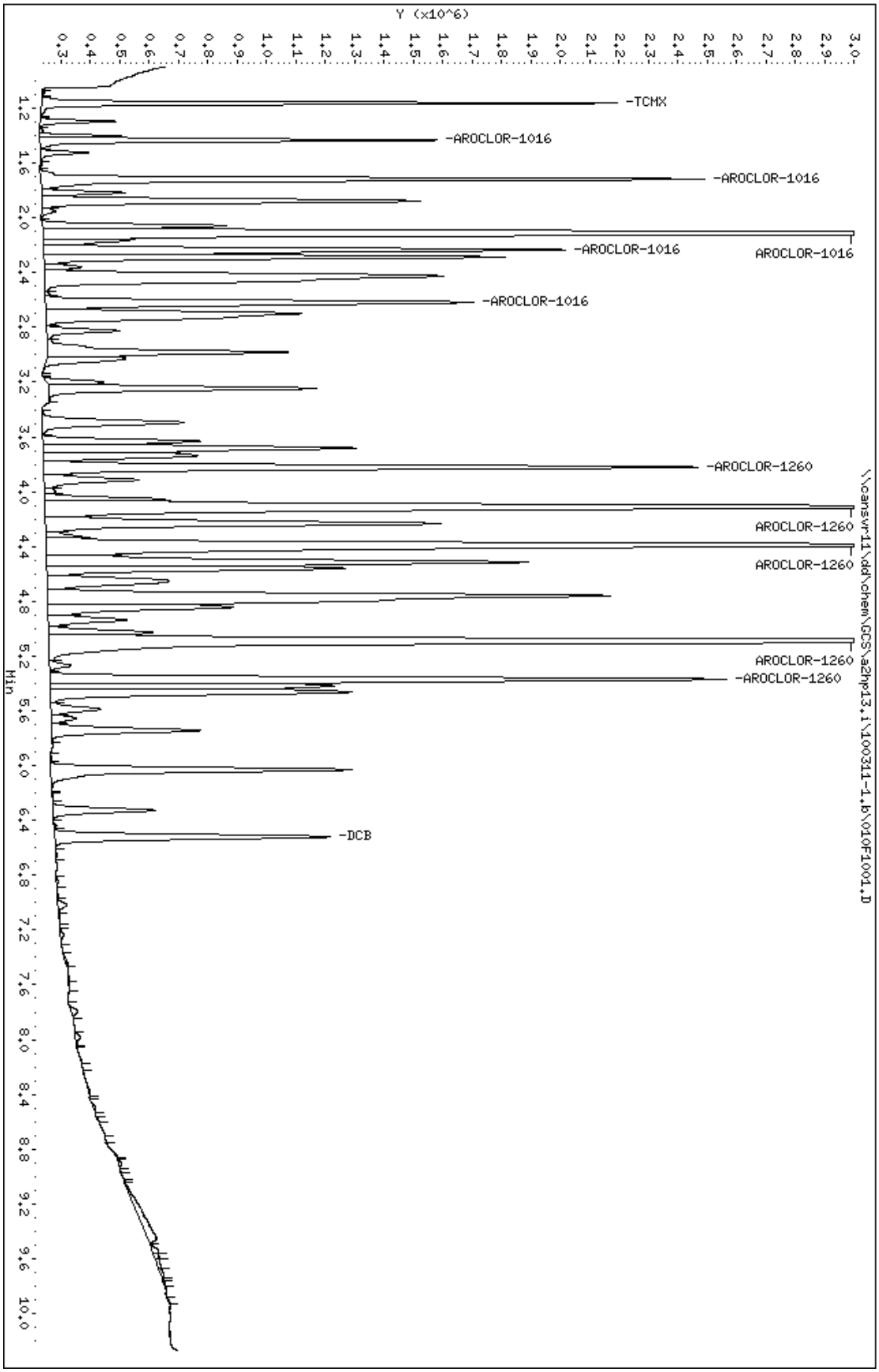
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.050	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.161	0.001	1961013	0.01578	5.253		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.433	1.433	0.000	2201950	0.61914	206.0	80.00- 120.00	100.00(M)
1.716	1.716	0.000	4466158	0.72568	241.5	133.43- 222.39	202.83
2.112	2.112	0.000	8988217	0.69253	230.4	291.60- 486.00	408.19
2.233	2.233	0.000	3821661	0.71755	238.8	117.70- 196.17	173.56
2.616	2.616	0.000	3672655	0.69250	230.4	115.39- 192.32	166.79
Average of Peak Concentrations =					229.4		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.821	3.821	0.000	2228254	0.73824	245.7	80.00- 120.00	100.00(M)
4.109	4.111	-0.002	3218868	0.76159	253.4	105.00- 175.01	144.46
4.388	4.388	0.000	3196470	0.83007	276.2	96.41- 160.68	143.45
5.088	5.089	-0.001	4013030	0.69703	232.0	151.57- 252.62	180.10
5.370	5.371	-0.001	2304031	0.75137	250.0	79.78- 132.96	103.40
Average of Peak Concentrations =					251.5		

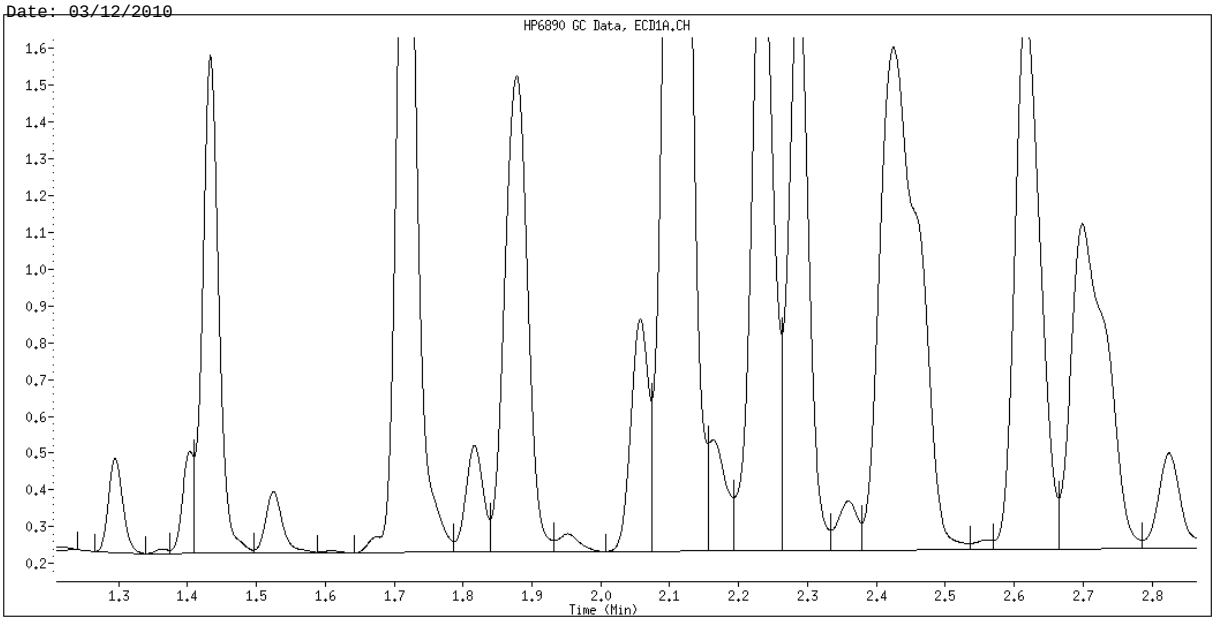
```
$   9 DCB                                       CAS #: 2051-24-3
6.519    6.520   -0.001          938360 0.01692    5.629
--------------------------------------------------------------------------------
```

QC Flag Legend

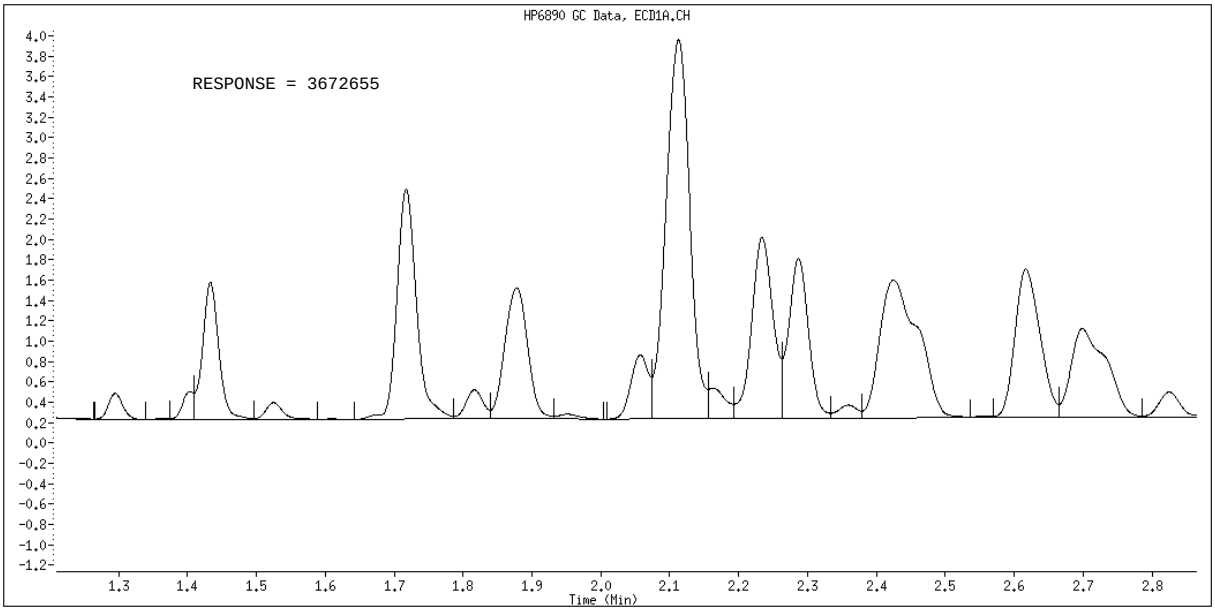
M - Compound response manually integrated.


Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\010F1001.D
Date : 11-MAR-2010 14:54
Client ID: LL6SB-069-5222-SO
Sample Info: LWCWJ1CH
Volume Injected (uL): 1.0
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
-TCMX
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
-AROCLOR-1260
-DCB
Min
\\cansvr11\dd\chem\GCS\a2hp13.i\100311-1.b\010F1001.D

Data File Name: 010F1001.D
Inj. Date and Time: 11-MAR-2010 14:54
Instrument ID: a2hp13.i
Client ID: LL6SB-069-5222-SO
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/12/2010



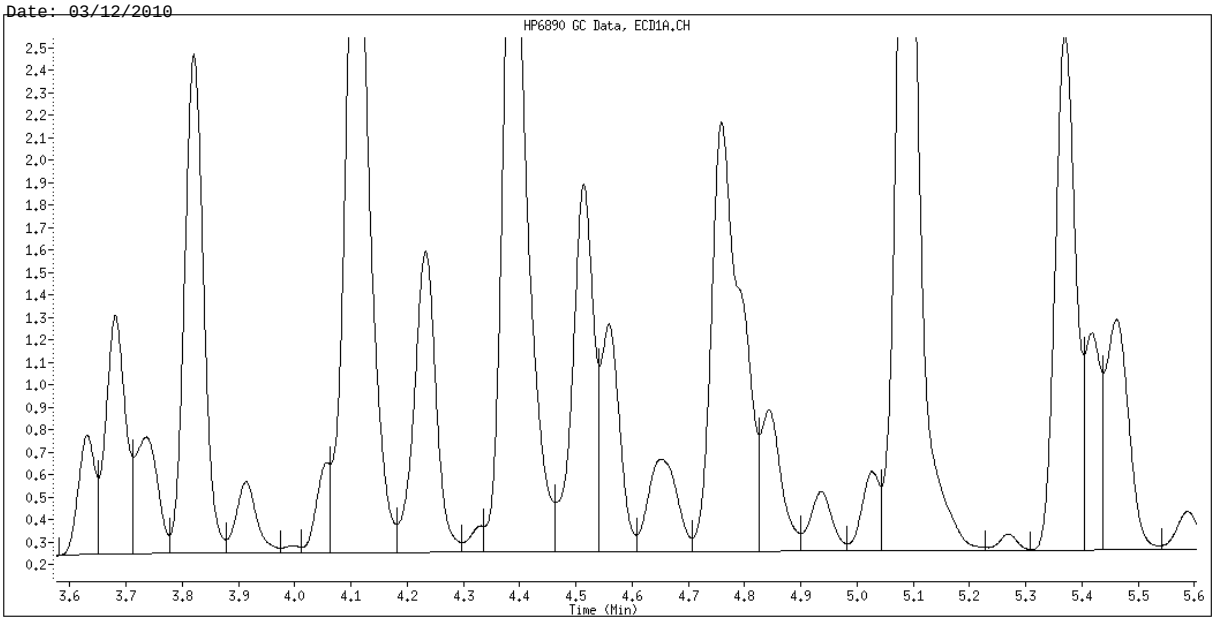
Original Integration



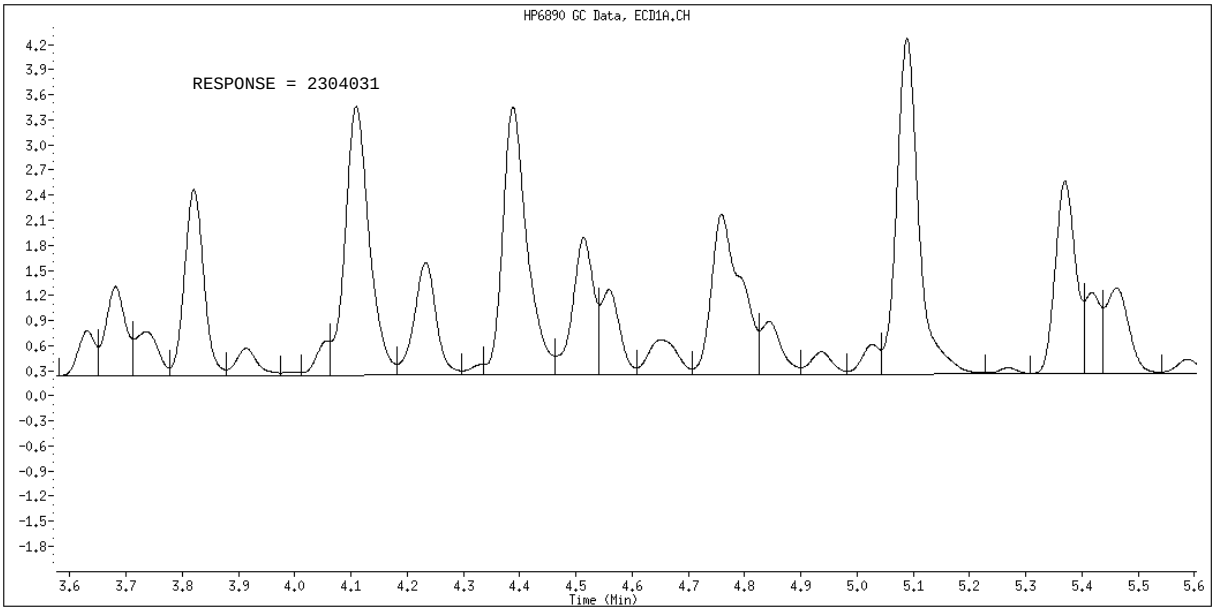
Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

Data File Name: 010F1001.D
Inj. Date and Time: 11-MAR-2010 14:54
Instrument ID: a2hp13.i
Client ID: LL6SB-069-5222-SO
Compound Name: AROCLOR-1260
CAS #: 11096-82-5
Report Date: 03/12/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp13.i

Standards Codes:	Routine Maintenance Performed:	Date: 08-FEB-2010 16:06
	Cut & Cleaned: ( )	QC Batch: 100208IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	CALIB_1	1232	2	1			
003F0301.D	CALIB_2	1232	3	1			
004F0401.D	CALIB_3	1232	4	1			
005F0501.D	CALIB_4	1232	5	1			
006F0601.D	CALIB_5	1232	6	1			
007F0701.D	CALIB_6	1232	7	1			
008F0801.D	CALIB_1	1242	8	1			
009F0901.D	CALIB_2	1242	9	1			
010F1001.D	CALIB_3	1242	10	1			
011F1101.D	CALIB_4	1242	11	1			
012F1201.D	CALIB_5	1242	12	1			
013F1301.D	CALIB_6	1242	13	1			
014F1401.D	CALIB_1	1248	14	1			
015F1501.D	CALIB_2	1248	15	1			
016F1601.D	CALIB_3	1248	16	1			
017F1701.D	CALIB_4	1248	17	1			
018F1801.D	CALIB_5	1248	18	1			
019F1901.D	CALIB_6	1248	19	1			
020F2001.D	CALIB_1	1254	20	1			
021F2101.D	CALIB_2	1254	21	1			
022F2201.D	CALIB_3	1254	22	1			
023F2301.D	CALIB_4	1254	23	1			
024F2401.D	CALIB_5	1254	24	1			
025F2501.D	CALIB_6	1254	25	1			
026F2601.D	CALIB_1	1660	26	1			
027F2701.D	CALIB_2	1660	27	1			

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp13.i

Standards Codes:	Routine Maintenance Performed:	Date: 08-FEB-2010 22:21
	Cut & Cleaned: ( )	QC Batch: 100208IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
028F2801.D	CALIB_3	1660	28	1			
029F2901.D	CALIB_4	1660	29	1			
030F3001.D	CALIB_5	1660	30	1			
031F3101.D	CALIB_6	1660	31	1			
032F3201.D	CALIB_1	1262	32	1			
033F3301.D	CALIB_2	1262	33	1			
034F3401.D	CALIB_3	1262	34	1			
035F3501.D	CALIB_4	1262	35	1			
036F3601.D	CALIB_5	1262	36	1			
037F3701.D	CALIB_6	1262	37	1			
038F3801.D	CALIB_1	1268	38	1			
039F3901.D	CALIB_2	1268	39	1			
040F4001.D	CALIB_3	1268	40	1			
041F4101.D	CALIB_4	1268	41	1			
042F4201.D	CALIB_5	1268	42	1			
043F4301.D	CALIB_6	1268	43	1			
044F4401.D	CCALIB_4	1CV	44	1			
045F0101.D	CCALIB_4	1CV	45	1			
046F0101.D	CCALIB_4	1CV	46	1			

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp13.i

Standards Codes:	Routine Maintenance Performed:	Date: 11-MAR-2010 12:15
	Cut & Cleaned: ( )	QC Batch: 100311-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	CCALIB_4	1660	2	1			
003F0301.D	MRL	MRL	3	1			
008F0801.D	LL6SB-069-5222-SO	LWCWJ1AF	8	1			
009F0901.D	LL6SB-069-5222-SO	LWCWJ1CG	9	1			
010F1001.D	LL6SB-069-5222-SO	LWCWJ1CH	10	1			
012F1201.D	LWET8BLK	LWET81AA	12	1			
013F1301.D	LWET8CHK	LWET81AC	13	1			
014F1401.D	CCALIB_4	E009	14	1			
015F1501.D	MRL	MRL	15	1			

Witnessed By: Date: Page No. _____

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/31/2010
Time: 13:09:20

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
			_	_	computer batch: correct & Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 402608 Eric Mills

Concentrationist: 000123 Leslie Howell

Reviewer/Date: HOWELLL / 3/10/10

QC BATCH: 0068033

PREP DATE: 3/09/10
COMP DATE: 3/10/10

PCBs (8082)
SOXHLET (Na2SO4) w/ACID STRIP (PCB)
SW846 3540C, SW846 3540C/3665A

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-AF**	D	63	QH	SOLID	30.14g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-CG S**	D	63	QH	SOLID	30.07g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 10PPM #4615 1ML 2/.2 #4621
COMMENTS:															
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-CH D**	D	63	QH	SOLID	30.05g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 10PPM #4615 1ML 2/.2 #4621
COMMENTS:															
3/11/10	0/0/0	A0C090000-033 **LWET8-1-AA B**		63	QH	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/11/10	0/0/0	A0C090000-033 **LWET8-1-AC C**		63	QH	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 10PPM #4615 1ML 2/.2 #4621
COMMENTS:															

1122

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0068033

PREP DATE: 3/09/10
COMP DATE: 3/10/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
2/25/10	3/18/10	A0C080403-001 **LWD2H-1-AA**	B	63	QH	SOLID	30.05g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621

COMMENTS:

S/S BY EM
DCM/ACE#J03E07 HEXANE#H46E60 NA2SO4#H35594
ASSOC. SAMPLE/BLANK W/#0068032 BALANCE#B025

NUMBER OF WORK ORDERS IN BATCH: 6

1123

North Canton

Lot/SDG Number: **A0C050520**

Sample Control Chain of Custody - TAL North Canton
GC Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0C050520-002	LWCWJ1AF	PCBs (8082)	03/09/10	Eric Mills	03/10/10	Leslie Howell	03/11/10	Carolyn Van Doren

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METALS DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

FORMS DATA

Science Applications International Corp

Client Sample ID: ATASB-006-5130-SO

TOTAL Metals

Lot-Sample #...: A0C050520-001 **Matrix.....:** SO
Date Sampled...: 02/24/10 11:35 **Date Received..:** 03/05/10
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0064023						
Silver	**0.018 J**	**0.63**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AC**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0033		
Aluminum	**3520**	**12.6**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AD**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.1		
Arsenic	**11.3**	**0.63**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AE**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.066		
Barium	**24.5**	**1.3**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AF**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Beryllium	**0.17**	**0.13**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AG**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0044		
Calcium	**15900**	**253**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AH**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 50.6		
Cadmium	**0.086 J**	**0.25**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AJ**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0039		
Cobalt	**4.9**	**0.63**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AK**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0057		
Chromium	**5.7**	**0.63**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AL**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.20		
Copper	**20.9**	**0.63**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AM**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.14		

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-006-5130-SO

TOTAL Metals

Lot-Sample #...: A0C050520-001 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**16700**	**63.2**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AN**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 13.8		
Mercury	ND	0.13	mg/kg	SW846 7471A	03/10-03/12/10	LWCWH1A3
		Dilution Factor: 1		Analysis Time..: 11:27	Analyst ID.....: 006531	
		Instrument ID..: H1		MDL.....: 0.018		
Potassium	**571**	**126**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AP**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.8		
Magnesium	**3810**	**126**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AQ**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.3		
Manganese	**290**	**1.3**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AR**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.20		
Sodium	**42.7 J**	**126**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AT**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 17.7		
Nickel	**12.4**	**1.3**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AU**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		
Lead	**9.8**	**0.38**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AV**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.089		
Antimony	**0.089 J**	**0.63**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AW**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.078		
Selenium	**0.58 J**	**0.63**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1AX**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.026		

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-006-5130-SO

TOTAL Metals

Lot-Sample #...: A0C050520-001 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.13 J**	**0.25**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1A0**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.071		
Vanadium	**7.2**	**1.3**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1A1**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.055		
Zinc	**61.7**	**5.1**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWH1A2**
		Dilution Factor: 1		Analysis Time..: 17:40	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.3		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

TOTAL Metals

Lot-Sample #...: A0C050520-002 **Matrix.....:** SO
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0064023						
Silver	**0.018 J**	**0.61**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AG**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Aluminum	**6470**	**12.2**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AH**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.0		
Arsenic	**13.5**	**0.61**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AJ**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.064		
Barium	**21.6**	**1.2**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AK**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Beryllium	**0.32**	**0.12**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AL**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0043		
Calcium	**7760**	**245**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AM**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 49.0		
Cadmium	**0.042 J**	**0.24**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AN**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0038		
Cobalt	**8.4**	**0.61**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AP**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0055		
Chromium	**10.4**	**0.61**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AQ**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.20		
Copper	**18.1**	**0.61**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AR**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		

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Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

TOTAL Metals

Lot-Sample #...: A0C050520-002 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**22400**	**61.2**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AT**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 13.4		
Mercury	ND	0.12	mg/kg	SW846 7471A	03/10-03/12/10	LWCWJ1A7
		Dilution Factor: 1		Analysis Time..: 11:34	Analyst ID.....: 006531	
		Instrument ID..: H1		MDL.....: 0.017		
Potassium	**977**	**122**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AU**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.6		
Magnesium	**4420**	**122**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AV**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 10.9		
Manganese	**338**	**1.2**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AW**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.20		
Sodium	**45.7 J**	**122**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1AX**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 17.2		
Nickel	**19.6**	**1.2**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1A0**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		
Lead	**10.1**	**0.37**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1A1**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.086		
Antimony	ND	0.61	mg/kg	SW846 6020	03/10-03/19/10	LWCWJ1A2
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.076		
Selenium	**0.63**	**0.61**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1A3**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.025		

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Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

TOTAL Metals

Lot-Sample #...: A0C050520-002 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.11 J**	**0.24**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1A4**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.069		
Vanadium	**11.1**	**1.2**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1A5**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Zinc	**56.6**	**4.9**	**mg/kg**	**SW846 6020**	**03/10-03/19/10**	**LWCWJ1A6**
		Dilution Factor: 1		Analysis Time..: 17:45	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.2		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0C050000-023 **Prep Batch #...:** 0064023						
Aluminum	ND	10.0	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AG
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Antimony	ND	0.50	mg/kg	SW846 6020	03/10-03/15/10	LWAX61A1
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Arsenic	ND	0.50	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AH
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Barium	ND	1.0	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AJ
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Beryllium	ND	0.10	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AK
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Cadmium	ND	0.20	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AM
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Calcium	ND	200	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AL
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Chromium	ND	0.50	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AP
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Cobalt	ND	0.50	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AN
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Copper	ND	0.50	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AQ
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Iron	ND	50.0	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AR
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	0.30	mg/kg	SW846 6020	03/10-03/15/10	LWAX61A0
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Magnesium	ND	100	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AU
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Manganese	ND	1.0	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AV
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Mercury	ND	0.10	mg/kg	SW846 7471A	03/10-03/12/10	LWAX61AE
		Dilution Factor: 1				
		Analysis Time..: 11:15	Analyst ID.....: 006531	Instrument ID..: H1		
Nickel	ND	1.0	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AX
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Potassium	ND	100	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AT
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Selenium	ND	0.50	mg/kg	SW846 6020	03/10-03/15/10	LWAX61A2
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Silver	ND	0.50	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AF
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Sodium	ND	100	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AW
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Thallium	ND	0.20	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AA
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Vanadium	ND	1.0	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AC
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		
Zinc	ND	4.0	mg/kg	SW846 6020	03/10-03/15/10	LWAX61AD
		Dilution Factor: 1				
		Analysis Time..: 14:53	Analyst ID.....: 001637	Instrument ID..: I8		

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0C050000-023 **Prep Batch #...:** 0064023					
Thallium	94	(71 - 110)	SW846 6020	03/10-03/15/10	LWAX61A3
		Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637	
		Instrument ID..: I8			
Vanadium	93	(72 - 110)	SW846 6020	03/10-03/15/10	LWAX61A4
		Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637	
		Instrument ID..: I8			
Zinc	94	(72 - 113)	SW846 6020	03/10-03/15/10	LWAX61A5
		Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637	
		Instrument ID..: I8			
Mercury	101	(80 - 120)	SW846 7471A	03/10-03/12/10	LWAX61A6
		Dilution Factor: 1	Analysis Time..: 11:16	Analyst ID.....: 006531	
		Instrument ID..: H1			
Silver	102	(60 - 114)	SW846 6020	03/10-03/15/10	LWAX61A7
		Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637	
		Instrument ID..: I8			
Aluminum	95	(80 - 120)	SW846 6020	03/10-03/15/10	LWAX61A8
		Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637	
		Instrument ID..: I8			
Arsenic	82	(73 - 110)	SW846 6020	03/10-03/15/10	LWAX61A9
		Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637	
		Instrument ID..: I8			
Barium	91	(70 - 110)	SW846 6020	03/10-03/15/10	LWAX61CA
		Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637	
		Instrument ID..: I8			
Beryllium	81	(79 - 110)	SW846 6020	03/10-03/15/10	LWAX61CC
		Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637	
		Instrument ID..: I8			
Calcium	87	(80 - 120)	SW846 6020	03/10-03/15/10	LWAX61CD
		Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637	
		Instrument ID..: I8			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	91	(74 - 110)	SW846 6020	03/10-03/15/10	LWAX61CE
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				
Cobalt	98	(74 - 110)	SW846 6020	03/10-03/15/10	LWAX61CF
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				
Chromium	96	(70 - 110)	SW846 6020	03/10-03/15/10	LWAX61CG
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				
Copper	102	(73 - 110)	SW846 6020	03/10-03/15/10	LWAX61CH
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				
Iron	100	(80 - 120)	SW846 6020	03/10-03/15/10	LWAX61CJ
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				
Potassium	96	(80 - 120)	SW846 6020	03/10-03/16/10	LWAX61CK
	Dilution Factor: 1	Analysis Time..: 08:16	Analyst ID.....: 001637		
	Instrument ID..: I8				
Magnesium	102	(80 - 120)	SW846 6020	03/10-03/15/10	LWAX61CL
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				
Manganese	81	(80 - 120)	SW846 6020	03/10-03/15/10	LWAX61CM
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				
Sodium	95	(80 - 120)	SW846 6020	03/10-03/15/10	LWAX61CN
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				
Nickel	100	(75 - 110)	SW846 6020	03/10-03/15/10	LWAX61CP
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				
Lead	94	(75 - 110)	SW846 6020	03/10-03/15/10	LWAX61CQ
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	89	(68 - 113)	SW846 6020	03/10-03/15/10	LWAX61CR
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				
Selenium	74	(65 - 110)	SW846 6020	03/10-03/15/10	LWAX61CT
	Dilution Factor: 1	Analysis Time..: 14:58	Analyst ID.....: 001637		
	Instrument ID..: I8				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0C050000-023 **Prep Batch #...:** 0064023							
Thallium	10.0	9.4	mg/kg	94	SW846 6020	03/10-03/15/10	LWAX61A3
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				
Vanadium	10.0	9.3	mg/kg	93	SW846 6020	03/10-03/15/10	LWAX61A4
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				
Zinc	10.0	9.4	mg/kg	94	SW846 6020	03/10-03/15/10	LWAX61A5
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				
Mercury	0.83	0.84	mg/kg	101	SW846 7471A	03/10-03/12/10	LWAX61A6
			Dilution Factor: 1		Analysis Time..: 11:16	Analyst ID.....: 006531	
			Instrument ID..: H1				
Silver	10.0	10.2	mg/kg	102	SW846 6020	03/10-03/15/10	LWAX61A7
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				
Aluminum	1000	947	mg/kg	95	SW846 6020	03/10-03/15/10	LWAX61A8
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				
Arsenic	10.0	8.2	mg/kg	82	SW846 6020	03/10-03/15/10	LWAX61A9
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				
Barium	10.0	9.1	mg/kg	91	SW846 6020	03/10-03/15/10	LWAX61CA
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				
Beryllium	10.0	8.1	mg/kg	81	SW846 6020	03/10-03/15/10	LWAX61CC
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				
Calcium	1000	866	mg/kg	87	SW846 6020	03/10-03/15/10	LWAX61CD
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	10.0	9.1	mg/kg	91	SW846 6020	03/10-03/15/10	LWAX61CE
		Dilution Factor: 1		Analysis Time..: 14:58		Analyst ID.....: 001637	
		Instrument ID..: I8					
Cobalt	10.0	9.8	mg/kg	98	SW846 6020	03/10-03/15/10	LWAX61CF
		Dilution Factor: 1		Analysis Time..: 14:58		Analyst ID.....: 001637	
		Instrument ID..: I8					
Chromium	10.0	9.6	mg/kg	96	SW846 6020	03/10-03/15/10	LWAX61CG
		Dilution Factor: 1		Analysis Time..: 14:58		Analyst ID.....: 001637	
		Instrument ID..: I8					
Copper	10.0	10.2	mg/kg	102	SW846 6020	03/10-03/15/10	LWAX61CH
		Dilution Factor: 1		Analysis Time..: 14:58		Analyst ID.....: 001637	
		Instrument ID..: I8					
Iron	1000	1000	mg/kg	100	SW846 6020	03/10-03/15/10	LWAX61CJ
		Dilution Factor: 1		Analysis Time..: 14:58		Analyst ID.....: 001637	
		Instrument ID..: I8					
Potassium	1000	957	mg/kg	96	SW846 6020	03/10-03/16/10	LWAX61CK
		Dilution Factor: 1		Analysis Time..: 08:16		Analyst ID.....: 001637	
		Instrument ID..: I8					
Magnesium	1000	1020	mg/kg	102	SW846 6020	03/10-03/15/10	LWAX61CL
		Dilution Factor: 1		Analysis Time..: 14:58		Analyst ID.....: 001637	
		Instrument ID..: I8					
Manganese	10.0	8.1	mg/kg	81	SW846 6020	03/10-03/15/10	LWAX61CM
		Dilution Factor: 1		Analysis Time..: 14:58		Analyst ID.....: 001637	
		Instrument ID..: I8					
Sodium	1000	948	mg/kg	95	SW846 6020	03/10-03/15/10	LWAX61CN
		Dilution Factor: 1		Analysis Time..: 14:58		Analyst ID.....: 001637	
		Instrument ID..: I8					
Nickel	10.0	10.0	mg/kg	100	SW846 6020	03/10-03/15/10	LWAX61CP
		Dilution Factor: 1		Analysis Time..: 14:58		Analyst ID.....: 001637	
		Instrument ID..: I8					
Lead	10.0	9.4	mg/kg	94	SW846 6020	03/10-03/15/10	LWAX61CQ
		Dilution Factor: 1		Analysis Time..: 14:58		Analyst ID.....: 001637	
		Instrument ID..: I8					

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	10.0	8.9	mg/kg	89	SW846 6020	03/10-03/15/10	LWAX61CR
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				
Selenium	10.0	7.4	mg/kg	74	SW846 6020	03/10-03/15/10	LWAX61CT
			Dilution Factor: 1		Analysis Time..: 14:58	Analyst ID.....: 001637	
			Instrument ID..: I8				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/03/10 16:40 **Date Received..:** 03/04/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0C040514-016 **Prep Batch #...:** 0064023							
						% Moisture.....: 1.6	
Aluminum	NC,MSB	(70 - 130)			SW846 6020	03/10-03/19/10	LWAG81AG
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	03/10-03/19/10	LWAG81AH
		Dilution Factor: 10					
		Analysis Time..: 12:32		Instrument ID..: I8		Analyst ID.....: 001637	
Antimony	26 N	(75 - 125)			SW846 6020	03/10-03/19/10	LWAG81C3
	22 N	(75 - 125)	13	(0-20)	SW846 6020	03/10-03/19/10	LWAG81C4
		Dilution Factor: 10					
		Analysis Time..: 12:32		Instrument ID..: I8		Analyst ID.....: 001637	
Arsenic	92	(23 - 131)			SW846 6020	03/10-03/19/10	LWAG81AK
	86	(23 - 131)	3.2	(0-20)	SW846 6020	03/10-03/19/10	LWAG81AL
		Dilution Factor: 10					
		Analysis Time..: 12:32		Instrument ID..: I8		Analyst ID.....: 001637	
Barium	NC,MSB	(10 - 199)			SW846 6020	03/10-03/19/10	LWAG81AN
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	03/10-03/19/10	LWAG81AP
		Dilution Factor: 10					
		Analysis Time..: 12:32		Instrument ID..: I8		Analyst ID.....: 001637	
Beryllium	90	(58 - 112)			SW846 6020	03/10-03/19/10	LWAG81AR
	86	(58 - 112)	4.5	(0-20)	SW846 6020	03/10-03/19/10	LWAG81AT
		Dilution Factor: 10					
		Analysis Time..: 12:32		Instrument ID..: I8		Analyst ID.....: 001637	
Cadmium	91	(58 - 110)			SW846 6020	03/10-03/19/10	LWAG81A0
	88	(58 - 110)	2.8	(0-20)	SW846 6020	03/10-03/19/10	LWAG81A1
		Dilution Factor: 10					
		Analysis Time..: 12:32		Instrument ID..: I8		Analyst ID.....: 001637	
Calcium	NC,MSB	(70 - 130)			SW846 6020	03/10-03/19/10	LWAG81AV
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	03/10-03/19/10	LWAG81AW
		Dilution Factor: 10					
		Analysis Time..: 12:32		Instrument ID..: I8		Analyst ID.....: 001637	
Chromium	93	(10 - 199)			SW846 6020	03/10-03/19/10	LWAG81A6
	97	(10 - 199)	1.1	(0-20)	SW846 6020	03/10-03/19/10	LWAG81A7
		Dilution Factor: 10					
		Analysis Time..: 12:32		Instrument ID..: I8		Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/03/10 16:40 **Date Received..:** 03/04/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	92	(55 - 110)			SW846 6020	03/10-03/19/10	LWAG81A3
	93	(55 - 110)	0.67	(0-20)	SW846 6020	03/10-03/19/10	LWAG81A4
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Copper	102	(10 - 199)			SW846 6020	03/10-03/19/10	LWAG81A9
	98	(10 - 199)	1.8	(0-20)	SW846 6020	03/10-03/19/10	LWAG81CA
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Iron	NC,MSB	(70 - 130)			SW846 6020	03/10-03/19/10	LWAG81CD
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	03/10-03/19/10	LWAG81CE
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Lead	84	(10 - 199)			SW846 6020	03/10-03/19/10	LWAG81C0
	88	(10 - 199)	1.5	(0-20)	SW846 6020	03/10-03/19/10	LWAG81C1
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Magnesium	94	(70 - 130)			SW846 6020	03/10-03/19/10	LWAG81CK
	93	(70 - 130)	0.22	(0-20)	SW846 6020	03/10-03/19/10	LWAG81CL
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Manganese	NC,MSB	(10 - 199)			SW846 6020	03/10-03/19/10	LWAG81CN
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	03/10-03/19/10	LWAG81CP
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Mercury	107	(80 - 120)			SW846 7471A	03/10-03/12/10	LWAG81DK
	99	(80 - 120)	5.5	(0-20)	SW846 7471A	03/10-03/12/10	LWAG81DL
		Dilution Factor: 1					
		Analysis Time..: 11:19			Instrument ID..: H1	Analyst ID.....: 006531	
Nickel	111	(10 - 176)			SW846 6020	03/10-03/19/10	LWAG81CV
	104	(10 - 176)	2.0	(0-20)	SW846 6020	03/10-03/19/10	LWAG81CW
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Potassium	87	(70 - 130)			SW846 6020	03/10-03/19/10	LWAG81CG
	88	(70 - 130)	0.35	(0-20)	SW846 6020	03/10-03/19/10	LWAG81CH
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/03/10 16:40 **Date Received..:** 03/04/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	85	(39 - 116)			SW846 6020	03/10-03/19/10	LWAG81C6
	82	(39 - 116)	3.6	(0-20)	SW846 6020	03/10-03/19/10	LWAG81C7
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Silver	89	(75 - 125)			SW846 6020	03/10-03/19/10	LWAG81AD
	90	(75 - 125)	0.56	(0-20)	SW846 6020	03/10-03/19/10	LWAG81AE
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Sodium	94	(70 - 130)			SW846 6020	03/10-03/19/10	LWAG81CR
	92	(70 - 130)	2.0	(0-20)	SW846 6020	03/10-03/19/10	LWAG81CT
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Thallium	84	(62 - 110)			SW846 6020	03/10-03/19/10	LWAG81C9
	83	(62 - 110)	1.6	(0-20)	SW846 6020	03/10-03/19/10	LWAG81DA
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Vanadium	83	(39 - 129)			SW846 6020	03/10-03/19/10	LWAG81DD
	88	(39 - 129)	1.9	(0-20)	SW846 6020	03/10-03/19/10	LWAG81DE
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	
Zinc	NC,MSB	(10 - 199)			SW846 6020	03/10-03/19/10	LWAG81DG
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	03/10-03/19/10	LWAG81DH
		Dilution Factor: 10					
		Analysis Time..: 12:32			Instrument ID..: I8	Analyst ID.....: 001637	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/03/10 16:40 **Date Received..:** 03/04/10

MS Lot-Sample #: A0C040514-016 **Prep Batch #...:** 0064023
% Moisture.....: 1.6

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum	11400	1020	14000	mg/kg			SW846 6020	03/10-03/19/10	LWAG81AG
			Qualifiers: NC,MSB						
	11400	1020	14200	mg/kg			SW846 6020	03/10-03/19/10	LWAG81AH
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:32	Instrument ID..: I8			Analyst ID.....: 001637		
Antimony	0.13	10.2	2.8 N	mg/kg	26		SW846 6020	03/10-03/19/10	LWAG81C3
	0.13	10.2	2.4 N	mg/kg	22	13	SW846 6020	03/10-03/19/10	LWAG81C4
			Dilution Factor: 10						
			Analysis Time..: 12:32	Instrument ID..: I8			Analyst ID.....: 001637		
Arsenic	11.8	10.2	21.2	mg/kg	92		SW846 6020	03/10-03/19/10	LWAG81AK
	11.8	10.2	20.5	mg/kg	86	3.2	SW846 6020	03/10-03/19/10	LWAG81AL
			Dilution Factor: 10						
			Analysis Time..: 12:32	Instrument ID..: I8			Analyst ID.....: 001637		
Barium	65.4	10.2	70.3	mg/kg			SW846 6020	03/10-03/19/10	LWAG81AN
			Qualifiers: NC,MSB						
	65.4	10.2	70.0	mg/kg			SW846 6020	03/10-03/19/10	LWAG81AP
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:32	Instrument ID..: I8			Analyst ID.....: 001637		
Beryllium	0.66	10.2	9.8	mg/kg	90		SW846 6020	03/10-03/19/10	LWAG81AR
	0.66	10.2	9.4	mg/kg	86	4.5	SW846 6020	03/10-03/19/10	LWAG81AT
			Dilution Factor: 10						
			Analysis Time..: 12:32	Instrument ID..: I8			Analyst ID.....: 001637		
Cadmium	0.21	10.2	9.4	mg/kg	91		SW846 6020	03/10-03/19/10	LWAG81A0
	0.21	10.2	9.2	mg/kg	88	2.8	SW846 6020	03/10-03/19/10	LWAG81A1
			Dilution Factor: 10						
			Analysis Time..: 12:32	Instrument ID..: I8			Analyst ID.....: 001637		

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/03/10 16:40 **Date Received..:** 03/04/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	7560	1020	7540	mg/kg			SW846 6020	03/10-03/19/10	LWAG81AV
			Qualifiers: NC,MSB						
	7560	1020	6550	mg/kg			SW846 6020	03/10-03/19/10	LWAG81AW
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Chromium									
	26.7	10.2	36.2	mg/kg	93		SW846 6020	03/10-03/19/10	LWAG81A6
	26.7	10.2	36.6	mg/kg	97	1.1	SW846 6020	03/10-03/19/10	LWAG81A7
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Cobalt									
	8.8	10.2	18.1	mg/kg	92		SW846 6020	03/10-03/19/10	LWAG81A3
	8.8	10.2	18.3	mg/kg	93	0.67	SW846 6020	03/10-03/19/10	LWAG81A4
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Copper									
	15.4	10.2	25.8	mg/kg	102		SW846 6020	03/10-03/19/10	LWAG81A9
	15.4	10.2	25.3	mg/kg	98	1.8	SW846 6020	03/10-03/19/10	LWAG81CA
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Iron									
	24500	1020	24600	mg/kg			SW846 6020	03/10-03/19/10	LWAG81CD
			Qualifiers: NC,MSB						
	24500	1020	25000	mg/kg			SW846 6020	03/10-03/19/10	LWAG81CE
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Lead									
	21.0	10.2	29.5	mg/kg	84		SW846 6020	03/10-03/19/10	LWAG81C0
	21.0	10.2	29.9	mg/kg	88	1.5	SW846 6020	03/10-03/19/10	LWAG81C1
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Magnesium									
	3120	1020	4080	mg/kg	94		SW846 6020	03/10-03/19/10	LWAG81CK
	3120	1020	4070	mg/kg	93	0.22	SW846 6020	03/10-03/19/10	LWAG81CL
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/03/10 16:40 **Date Received..:** 03/04/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	825	10.2	658	mg/kg			SW846 6020	03/10-03/19/10	LWAG81CN
			Qualifiers: NC,MSB						
	825	10.2	655	mg/kg			SW846 6020	03/10-03/19/10	LWAG81CP
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Mercury									
	0.062	0.17	0.24	mg/kg	107		SW846 7471A	03/10-03/12/10	LWAG81DK
	0.062	0.17	0.23	mg/kg	99	5.5	SW846 7471A	03/10-03/12/10	LWAG81DL
			Dilution Factor: 1						
			Analysis Time..: 11:19		Instrument ID..: H1			Analyst ID.....: 006531	
Nickel									
	21.8	10.2	33.1	mg/kg	111		SW846 6020	03/10-03/19/10	LWAG81CV
	21.8	10.2	32.4	mg/kg	104	2.0	SW846 6020	03/10-03/19/10	LWAG81CW
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Potassium									
	842	1020	1730	mg/kg	87		SW846 6020	03/10-03/19/10	LWAG81CG
	842	1020	1740	mg/kg	88	0.35	SW846 6020	03/10-03/19/10	LWAG81CH
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Selenium									
	0.87	10.2	9.5	mg/kg	85		SW846 6020	03/10-03/19/10	LWAG81C6
	0.87	10.2	9.2	mg/kg	82	3.6	SW846 6020	03/10-03/19/10	LWAG81C7
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Silver									
	0.024	10.2	9.1	mg/kg	89		SW846 6020	03/10-03/19/10	LWAG81AD
	0.024	10.2	9.1	mg/kg	90	0.56	SW846 6020	03/10-03/19/10	LWAG81AE
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Sodium									
	51.1	1020	1000	mg/kg	94		SW846 6020	03/10-03/19/10	LWAG81CR
	51.1	1020	984	mg/kg	92	2.0	SW846 6020	03/10-03/19/10	LWAG81CT
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/03/10 16:40 **Date Received..:** 03/04/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium									
	0.15	10.2	8.7	mg/kg	84		SW846 6020	03/10-03/19/10	LWAG81C9
	0.15	10.2	8.5	mg/kg	83	1.6	SW846 6020	03/10-03/19/10	LWAG81DA
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Vanadium									
	21.7	10.2	30.1	mg/kg	83		SW846 6020	03/10-03/19/10	LWAG81DD
	21.7	10.2	30.7	mg/kg	88	1.9	SW846 6020	03/10-03/19/10	LWAG81DE
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	
Zinc									
	61.9	10.2	80.0	mg/kg			SW846 6020	03/10-03/19/10	LWAG81DG
			Qualifiers: NC,MSB						
	61.9	10.2	80.0	mg/kg			SW846 6020	03/10-03/19/10	LWAG81DH
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:32		Instrument ID..: I8			Analyst ID.....: 001637	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

N Spiked analyte recovery is outside stated control limits.

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10312a.prn **Acceptable Range:** 90% - 110%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck5ICV 3/12/2010 10:51 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.51	**100.3**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80315A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICV 3/15/2010 11:54 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	400.0	404.13	**101.0**								
Antimony	121	80.0	82.45	**103.1**								
Arsenic	75	80.0	80.85	**101.1**								
Barium	137	80.0	79.04	**98.8**								
Beryllium	9	80.0	81.18	**101.5**								
Cadmium	111	80.0	83.69	**104.6**								
Calcium	43	40000.0	39540.00	**98.9**								
Chromium	52	80.0	83.15	**103.9**								
Cobalt	59	80.0	82.89	**103.6**								
Copper	65	80.0	84.64	**105.8**								
Iron	56	20000.0	20400.00	**102.0**								
Lead	208	80.0	80.52	**100.7**								
Magnesium	25	40000.0	41083.33	**102.7**								
Manganese	55	400.0	385.40	**96.4**								
Nickel	60	80.0	83.54	**104.4**								
Potassium	39	40000.0	37930.00	**94.8**								
Selenium	78	80.0	80.18	**100.2**								
Silver	107	80.0	86.10	**107.6**								
Sodium	23	40000.0	41333.33	**103.3**								
Thallium	205	80.0	80.67	**100.8**								
Vanadium	51	80.0	82.11	**102.6**								
Zinc	66	80.0	81.68	**102.1**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80316A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICV 3/16/2010 7:09 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Potassium	39	40000.0	40576.67	**101.4**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80319A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICV 3/19/2010 7:52 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	400.0	404.93	**101.2**								
Antimony	121	80.0	81.17	**101.5**								
Arsenic	75	80.0	79.33	**99.2**								
Barium	137	80.0	78.77	**98.5**								
Beryllium	9	80.0	80.79	**101.0**								
Cadmium	111	80.0	80.73	**100.9**								
Calcium	43	40000.0	41196.67	**103.0**								
Chromium	52	80.0	81.46	**101.8**								
Cobalt	59	80.0	81.50	**101.9**								
Copper	65	80.0	82.03	**102.5**								
Iron	56	20000.0	19803.33	**99.0**								
Lead	208	80.0	77.43	**96.8**								
Magnesium	25	40000.0	41046.67	**102.6**								
Manganese	55	400.0	406.70	**101.7**								
Nickel	60	80.0	82.10	**102.6**								
Potassium	39	40000.0	40316.67	**100.8**								
Selenium	78	80.0	84.73	**105.9**								
Silver	107	80.0	83.23	**104.0**								
Sodium	23	40000.0	41576.67	**103.9**								
Thallium	205	80.0	79.60	**99.5**								
Vanadium	51	80.0	80.15	**100.2**								
Zinc	66	80.0	84.33	**105.4**								

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: hg10312a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck2CCV 3/12/2010 10:54 AM Found	% Rec	Ck2CCV 3/12/2010 11:08 AM Found	% Rec	Ck2CCV 3/12/2010 11:22 AM Found	% Rec	Ck2CCV 3/12/2010 11:36 AM Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.11	**102.3**	5.16	**103.2**	5.15	**103.1**	5.19	**103.7**		

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: I80315A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CCV 3/15/2010 12:26 PM Found	% Rec	CCV 3/15/2010 2:42 PM Found	% Rec	CCV 3 3/15/2010 3:36 PM Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	500.0	499.20	**99.8**	496.87	**99.4**	516.00	**103.2**				
Antimony	121	100.0	100.77	**100.8**	100.68	**100.7**	101.63	**101.6**				
Arsenic	75	100.0	98.82	**98.8**	99.39	**99.4**	99.58	**99.6**				
Barium	137	100.0	96.15	**96.2**	96.09	**96.1**	95.80	**95.8**				
Beryllium	9	100.0	96.40	**96.4**	92.10	**92.1**	96.04	**96.0**				
Cadmium	111	100.0	102.90	**102.9**	104.13	**104.1**	104.80	**104.8**				
Calcium	43	50000.0	47536.67	**95.1**	47153.33	**94.3**	46490.00	**93.0**				
Chromium	52	100.0	99.43	**99.4**	101.87	**101.9**	100.23	**100.2**				
Cobalt	59	100.0	100.45	**100.5**	103.17	**103.2**	101.20	**101.2**				
Copper	65	100.0	103.00	**103.0**	106.77	**106.8**	103.60	**103.6**				
Iron	56	25000.0	24800.00	**99.2**	25693.33	**102.8**	25570.00	**102.3**				
Lead	208	100.0	99.42	**99.4**	99.74	**99.7**	99.50	**99.5**				
Magnesium	25	50000.0	50646.67	**101.3**	52716.67	**105.4**	52716.67	**105.4**				
Manganese	55	500.0	463.53	**92.7**	463.30	**92.7**	452.50	**90.5**				
Nickel	60	100.0	100.73	**100.7**	104.80	**104.8**	102.30	**102.3**				
Potassium	39	50000.0	45670.00	**91.3**	45280.00	**90.6**	45343.33	**90.7**				
Selenium	78	100.0	96.65	**96.7**	96.03	**96.0**	96.46	**96.5**				
Silver	107	100.0	103.30	**103.3**	107.17	**107.2**	104.87	**104.9**				
Sodium	23	50000.0	50096.67	**100.2**	49646.67	**99.3**	53146.67	**106.3**				
Thallium	205	100.0	99.41	**99.4**	99.49	**99.5**	99.10	**99.1**				
Vanadium	51	100.0	98.46	**98.5**	100.08	**100.1**	98.36	**98.4**				
Zinc	66	100.0	104.60	**104.6**	106.23	**106.2**	106.03	**106.0**				

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: I80316A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CCV 3/16/2010 7:41 AM Found	% Rec	CCV 3/16/2010 8:52 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Potassium	39	50000.0	50946.67	**101.9**	50823.33	**101.6**						

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: I80319A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CCV 3/19/2010 8:29 AM Found	% Rec	CCV 8 3/19/2010 4:42 PM Found	% Rec	CCV 3/19/2010 5:05 PM Found	% Rec	CCV 9 3/19/2010 6:04 PM Found	% Rec	Found	% Rec
Aluminum	27	500.0	529.50	**105.9**	592.30	**118.5**	535.27	**107.1**	551.53	**110.3**		
Antimony	121	100.0	99.04	**99.0**	97.76	**97.8**	97.31	**97.3**	98.41	**98.4**		
Arsenic	75	100.0	100.24	**100.2**	96.81	**96.8**	97.57	**97.6**	96.24	**96.2**		
Barium	137	100.0	97.63	**97.6**	97.13	**97.1**	96.38	**96.4**	95.39	**95.4**		
Beryllium	9	100.0	95.58	**95.6**	94.46	**94.5**	96.03	**96.0**	94.00	**94.0**		
Cadmium	111	100.0	99.10	**99.1**	100.69	**100.7**	99.35	**99.4**	101.52	**101.5**		
Calcium	43	50000.0	50626.67	**101.3**	49200.00	**98.4**	49526.67	**99.1**	54213.33	**108.4**		
Chromium	52	100.0	101.00	**101.0**	99.67	**99.7**	100.48	**100.5**	99.32	**99.3**		
Cobalt	59	100.0	100.60	**100.6**	99.35	**99.4**	99.80	**99.8**	99.51	**99.5**		
Copper	65	100.0	101.93	**101.9**	101.16	**101.2**	101.33	**101.3**	100.44	**100.4**		
Iron	56	25000.0	24820.00	**99.3**	25233.33	**100.9**	24833.33	**99.3**	25410.00	**101.6**		
Lead	208	100.0	96.32	**96.3**	95.76	**95.8**	94.74	**94.7**	95.33	**95.3**		
Magnesium	25	50000.0	51433.33	**102.9**	52056.67	**104.1**	51450.00	**102.9**	52156.67	**104.3**		
Manganese	55	500.0	502.83	**100.6**	501.27	**100.3**	495.13	**99.0**	546.30	**109.3**		
Nickel	60	100.0	101.00	**101.0**	101.01	**101.0**	100.63	**100.6**	100.33	**100.3**		
Potassium	39	50000.0	49910.00	**99.8**	49420.00	**98.8**	49606.67	**99.2**	54340.00	**108.7**		
Selenium	78	100.0	102.87	**102.9**	97.06	**97.1**	96.64	**96.6**	97.39	**97.4**		
Silver	107	100.0	101.30	**101.3**	102.00	**102.0**	101.17	**101.2**	102.97	**103.0**		
Sodium	23	50000.0	52543.33	**105.1**	54900.00	**109.8**	53593.33	**107.2**	53783.33	**107.6**		
Thallium	205	100.0	99.15	**99.2**	98.30	**98.3**	97.78	**97.8**	98.65	**98.7**		
Vanadium	51	100.0	100.28	**100.3**	97.19	**97.2**	98.59	**98.6**	97.32	**97.3**		
Zinc	66	100.0	104.93	**104.9**	103.27	**103.3**	102.43	**102.4**	103.87	**103.9**		

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10312a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck3CRA\MRL 3/12/2010 10:53 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	0.2	0.17	**84.1**								

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80315A.csv **Acceptable Range:** 80% - 120%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CRI 3/15/2010 12:10 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	60.0	52.97	**88.3**								
Antimony	121	2.0	2.07	**103.5**								
Arsenic	75	5.0	5.08	**101.5**								
Barium	137	5.0	4.77	**95.4**								
Beryllium	9	1.0	0.99	**99.1**								
Cadmium	111	2.0	2.13	**106.7**								
Calcium	43	2000.0	1828.00	**91.4**								
Chromium	52	2.0	1.97	**98.7**								
Cobalt	59	1.0	1.06	**106.1**								
Copper	65	4.0	4.68	**116.9**								
Iron	56	150.0	160.97	**107.3**								
Lead	208	1.0	0.96	**95.8**								
Magnesium	25	1000.0	1071.00	**107.1**								
Manganese	55	5.0	4.45	**89.1**								
Nickel	60	5.0	5.78	**115.6**								
Potassium	39	1000.0	852.50	**85.3**								
Selenium	78	5.0	5.42	**108.4**								
Silver	107	1.0	1.06	**106.0**								
Sodium	23	1000.0	985.43	**98.5**								
Thallium	205	2.0	1.83	**91.7**								
Vanadium	51	5.0	5.17	**103.3**								
Zinc	66	40.0	39.12	**97.8**								

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80316A.csv **Acceptable Range:** 80% - 120%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CRI 3/16/2010 7:25 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Potassium	39	1000.0	980.93	**98.1**								

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80319A.csv **Acceptable Range:** 80% - 120%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CRI 3/19/2010 8:13 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	60.0	49.77	**82.9**								
Antimony	121	2.0	2.00	**100.2**								
Arsenic	75	5.0	5.16	**103.2**								
Barium	137	5.0	4.57	**91.4**								
Beryllium	9	1.0	0.92	**92.1**								
Cadmium	111	2.0	1.89	**94.3**								
Calcium	43	2000.0	1962.67	**98.1**								
Chromium	52	2.0	1.96	**98.1**								
Cobalt	59	1.0	0.94	**93.6**								
Copper	65	4.0	4.03	**100.6**								
Iron	56	150.0	143.87	**95.9**								
Lead	208	1.0	0.89	**88.6**								
Magnesium	25	1000.0	978.27	**97.8**								
Manganese	55	5.0	4.81	**96.2**								
Nickel	60	5.0	5.20	**103.9**								
Potassium	39	1000.0	950.33	**95.0**								
Selenium	78	5.0	4.93	**98.6**								
Silver	107	1.0	1.01	**100.8**								
Sodium	23	1000.0	965.33	**96.5**								
Thallium	205	2.0	1.89	**94.7**								
Vanadium	51	5.0	5.16	**103.2**								
Zinc	66	40.0	41.87	**104.7**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10312a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck4ICB 3/12/2010 10:52 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	0.2	U								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80315A.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 3/15/2010 12:01 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U								
Antimony	121	5	1.2	U								
Arsenic	75	5	1	U								
Barium	137	10	2.6	U								
Beryllium	9	1	0.07	U								
Cadmium	111	2	0.062	U								
Calcium	43	2000	800	U								
Chromium	52	5	3.2	U								
Cobalt	59	5	0.09	U								
Copper	65	5	2.2	U								
Iron	56	500	218	U								
Lead	208	3	1.4	U								
Magnesium	25	1000	178	U								
Manganese	55	10	3.2	U								
Nickel	60	10	1.7	U								
Potassium	39	1000	76	U								
Selenium	78	5	0.42	U								
Silver	107	5	0.052	U								
Sodium	23	1000	280	U								
Thallium	205	2	1.1	U								
Vanadium	51	10	0.86	U								
Zinc	66	40	20	U								

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80316A.csv

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	ICB 3/16/2010 7:16 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Potassium	39	1000	76	U								

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80319A.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 3/19/2010 7:59 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U								
Antimony	121	5	1.2	U								
Arsenic	75	5	1	U								
Barium	137	10	2.6	U								
Beryllium	9	1	0.07	U								
Cadmium	111	2	0.062	U								
Calcium	43	2000	800	U								
Chromium	52	5	3.2	U								
Cobalt	59	5	0.09	U								
Copper	65	5	2.2	U								
Iron	56	500	218	U								
Lead	208	3	1.4	U								
Magnesium	25	1000	178	U								
Manganese	55	10	3.2	U								
Nickel	60	10	1.7	U								
Potassium	39	1000	76	U								
Selenium	78	5	0.42	U								
Silver	107	5	0.052	U								
Sodium	23	1000	280	U								
Thallium	205	2	1.1	U								
Vanadium	51	10	0.86	U								
Zinc	66	40	20	U								

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10312a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck1CCB 3/12/2010 10:55 AM Found	Q	Ck1CCB 3/12/2010 11:09 AM Found	Q	Ck1CCB 3/12/2010 11:24 AM Found	Q	Ck1CCB 3/12/2010 11:37 AM Found	Q	Found	Q
Mercury	253.7	0.6	0.2	U	0.2	U	0.2	U	0.2	U		

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80315A.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 3/15/2010 12:33 PM Found	Q	CCB 3/15/2010 2:49 PM Found	Q	CCB 3 3/15/2010 3:43 PM Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U	50	U	50	U				
Antimony	121	5	1.2	U	1.2	U	1.2	U				
Arsenic	75	5	1	U	1	U	1	U				
Barium	137	10	2.6	U	2.6	U	2.6	U				
Beryllium	9	1	0.07	U	0.07	U	0.07	U				
Cadmium	111	2	0.062	U	0.062	U	0.062	U				
Calcium	43	2000	800	U	800	U	800	U				
Chromium	52	5	3.2	U	3.2	U	3.2	U				
Cobalt	59	5	0.09	U	0.09	U	0.09	U				
Copper	65	5	2.2	U	2.2	U	2.2	U				
Iron	56	500	218	U	218	U	218	U				
Lead	208	3	1.4	U	1.4	U	1.4	U				
Magnesium	25	1000	178	U	178	U	178	U				
Manganese	55	10	3.2	U	3.2	U	3.2	U				
Nickel	60	10	1.7	U	1.7	U	1.7	U				
Potassium	39	1000	76	U	76	U	76	U				
Selenium	78	5	0.42	U	0.42	U	0.42	U				
Silver	107	5	0.052	U	0.052	U	0.052	U				
Sodium	23	1000	280	U	280	U	280	U				
Thallium	205	2	1.1	U	1.1	U	1.1	U				
Vanadium	51	10	0.86	U	0.86	U	0.86	U				
Zinc	66	40	20	U	20	U	20	U				

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80316A.csv

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB 3/16/2010 7:48 AM Found	Q	CCB 3/16/2010 8:58 AM Found	Q	Found	Q	Found	Q	Found	Q
Potassium	39	1000	76	U	76	U						

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80319A.csv

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB 3/19/2010 8:36 AM Found	Q	CCB 8 3/19/2010 4:49 PM Found	Q	CCB 3/19/2010 5:12 PM Found	Q	CCB 9 3/19/2010 6:11 PM Found	Q	Found	Q
Aluminum	27	100	50	U	**50**	**B**	50	U	50	U		
Antimony	121	5	1.2	U	1.2	U	1.2	U	1.2	U		
Arsenic	75	5	1	U	1	U	1	U	1	U		
Barium	137	10	2.6	U	2.6	U	2.6	U	2.6	U		
Beryllium	9	1	0.07	U	0.07	U	0.07	U	0.07	U		
Cadmium	111	2	0.062	U	**0.11**	**B**	0.062	U	**0.091**	**B**		
Calcium	43	2000	800	U	800	U	800	U	800	U		
Chromium	52	5	3.2	U	3.2	U	3.2	U	3.2	U		
Cobalt	59	5	0.09	U	**0.14**	**B**	0.09	U	**0.18**	**B**		
Copper	65	5	2.2	U	2.2	U	2.2	U	2.2	U		
Iron	56	500	218	U	218	U	218	U	218	U		
Lead	208	3	1.4	U	1.4	U	1.4	U	1.4	U		
Magnesium	25	1000	178	U	178	U	178	U	178	U		
Manganese	55	10	3.2	U	3.2	U	3.2	U	3.2	U		
Nickel	60	10	1.7	U	1.7	U	1.7	U	1.7	U		
Potassium	39	1000	76	U	76	U	76	U	76	U		
Selenium	78	5	0.42	U	0.42	U	0.42	U	0.42	U		
Silver	107	5	0.052	U	**0.098**	**B**	0.052	U	**0.11**	**B**		
Sodium	23	1000	280	U	280	U	280	U	280	U		
Thallium	205	2	1.1	U	1.1	U	1.1	U	1.1	U		
Vanadium	51	10	0.86	U	0.86	U	0.86	U	0.86	U		
Zinc	66	40	20	U	20	U	20	U	20	U		

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPMS **Units:** ug/L

Chart Number: I80315A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/15/2010 12:15 PM Found	Found	Found	Found	Found
Aluminum	27		50000	50700				
Antimony	121	5		0.130				
Arsenic	75	5		0.016				
Barium	137	10		0.640				
Beryllium	9	1		-0.001				
Cadmium	111	2		0.029				
Calcium	43		50000	49800				
Chromium	52	5		0.460				
Cobalt	59	5		0.023				
Copper	65	5		0.170				
Iron	56		50000	51500				
Lead	208	3		0.100				
Magnesium	25		50000	53200				
Manganese	55	10		0.940				
Nickel	60	10		0.360				
Potassium	39	1000		46400				
Selenium	78	5		-0.130				
Silver	107	5		0.016				
Sodium	23	1000		53800				
Thallium	205	2		0.002				
Vanadium	51	10		0.130				
Zinc	66	40		-2.600				

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPMS **Units:** ug/L

Chart Number: I80316A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/16/2010 7:30 AM Found	Found	Found	Found	Found
Potassium	39	1000		50000				

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPMS **Units:** ug/L

Chart Number: I80319A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/19/2010 8:17 AM Found	ICSA 3/19/2010 4:53 PM Found	Found	Found	Found
Aluminum	27		50000	51700	51100			
Antimony	121	5		0.074	0.110			
Arsenic	75	5		0.055	0.046			
Barium	137	10		-0.021	0.160			
Beryllium	9	1		-0.044	-0.032			
Cadmium	111	2		-0.031	-0.003			
Calcium	43		50000	51800	54100			
Chromium	52	5		0.540	0.610			
Cobalt	59	5		0.041	0.087			
Copper	65	5		0.045	0.097			
Iron	56		50000	49200	49800			
Lead	208	3		0.049	0.140			
Magnesium	25		50000	51600	52600			
Manganese	55	10		-0.320	-0.210			
Nickel	60	10		0.350	0.460			
Potassium	39	1000		49800	53000			
Selenium	78	5		0.041	-0.049			
Silver	107	5		0.013	0.043			
Sodium	23	1000		50900	53000			
Thallium	205	2		0.031	0.075			
Vanadium	51	10		-0.047	-0.003			
Zinc	66	40		0.770	1			

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPMS **Units:** ug/L

Chart Number: I80315A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICSAB 3/15/2010 12:20 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	50000	51170.0	**102.3**								
Antimony	121	100	101.2	**101.2**								
Arsenic	75	100	95.4	**95.4**								
Barium	137	100	98.2	**98.2**								
Beryllium	9	100	97.8	**97.8**								
Cadmium	111	100	102.5	**102.5**								
Calcium	43	50000	49526.7	**99.1**								
Chromium	52	100	101.5	**101.5**								
Cobalt	59	100	98.4	**98.4**								
Copper	65	100	98.7	**98.7**								
Iron	56	50000	51470.0	**102.9**								
Lead	208	100	101.3	**101.3**								
Magnesium	25	50000	53143.3	**106.3**								
Manganese	55	100	95.6	**95.6**								
Nickel	60	100	101.1	**101.1**								
Potassium	39	50000	46540.0	**93.1**								
Selenium	78	100	96.3	**96.3**								
Silver	107	100	103.1	**103.1**								
Sodium	23	50000	51670.0	**103.3**								
Thallium	205	100	101.3	**101.3**								
Vanadium	51	100	101.2	**101.2**								
Zinc	66	100	99.7	**99.7**								

N Spike recovery failed
NC Percent recovery was not calculated
U Result is less than the IDL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPMS **Units:** ug/L

Chart Number: I80316A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICSAB 3/16/2010 7:34 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Potassium	39	50000	50486.7	**101.0**								

N Spike recovery failed
NC Percent recovery was not calculated
U Result is less than the IDL

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPMS **Units:** ug/L

Chart Number: I80319A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICSAB 3/19/2010 8:22 AM Found	% Rec	ICSAB 3/19/2010 4:58 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	50000	51906.7	**103.8**	50573.3	**101.1**						
Antimony	121	100	99.1	**99.1**	97.0	**97.0**						
Arsenic	75	100	94.3	**94.3**	92.4	**92.4**						
Barium	137	100	97.3	**97.3**	96.2	**96.2**						
Beryllium	9	100	94.8	**94.8**	92.4	**92.4**						
Cadmium	111	100	98.0	**98.0**	97.9	**97.9**						
Calcium	43	50000	51216.7	**102.4**	50303.3	**100.6**						
Chromium	52	100	100.3	**100.3**	99.3	**99.3**						
Cobalt	59	100	96.8	**96.8**	97.2	**97.2**						
Copper	65	100	97.4	**97.4**	97.3	**97.3**						
Iron	56	50000	50486.7	**101.0**	50423.3	**100.8**						
Lead	208	100	96.6	**96.6**	95.5	**95.5**						
Magnesium	25	50000	52216.7	**104.4**	52523.3	**105.0**						
Manganese	55	100	102.6	**102.6**	101.6	**101.6**						
Nickel	60	100	99.9	**99.9**	98.5	**98.5**						
Potassium	39	50000	50006.7	**100.0**	49973.3	**99.9**						
Selenium	78	100	95.4	**95.4**	95.2	**95.2**						
Silver	107	100	99.8	**99.8**	100.5	**100.5**						
Sodium	23	50000	51140.0	**102.3**	52420.0	**104.8**						
Thallium	205	100	98.6	**98.6**	98.3	**98.3**						
Vanadium	51	100	99.4	**99.4**	98.6	**98.6**						
Zinc	66	100	102.0	**102.0**	101.9	**101.9**						

N Spike recovery failed
NC Percent recovery was not calculated
U Result is less than the IDL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Units: mg/kg

Element	Reporting Limit	Raw Method Detection Limit
Aluminum	10	2.49
Antimony	0.5	0.0620
Arsenic	0.5	0.0522
Barium	1	0.13
Beryllium	0.1	0.0035
Cadmium	0.2	0.0031
Calcium	200	40.05
Chromium	0.5	0.16
Cobalt	0.5	0.0045
Copper	0.5	0.11
Iron	50	10.91
Lead	0.3	0.0705
Magnesium	100	8.90
Manganese	1	0.16
Mercury	0.1	0.014
Nickel	1	0.0864
Potassium	100	3.76
Selenium	0.5	0.0207
Silver	0.5	0.0026
Sodium	100	14.01
Thallium	0.2	0.0562
Vanadium	1	0.0432
Zinc	4	1.00

TestAmerica North Canton

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPMS **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	27.00	500000	09/30/09
Antimony	121.00	1000	09/30/09
Arsenic	75.00	10000	09/29/09
Barium	137.00	10000	09/29/09
Beryllium	9.00	10000	09/29/09
Cadmium	111.00	10000	09/29/09
Calcium	43.00	500000	09/30/09
Chromium	52.00	10000	09/29/09
Cobalt	59.00	10000	09/29/09
Copper	65.00	10000	09/29/09
Iron	56.00	500000	09/30/09
Lead	208.00	10000	09/29/09
Magnesium	25.00	350000	09/30/09
Manganese	55.00	10000	09/29/09
Nickel	60.00	10000	09/29/09
Potassium	39.00	350000	09/30/09
Selenium	78.00	10000	09/29/09
Silver	107.00	10000	09/29/09
Sodium	23.00	500000	09/30/09
Thallium	205.00	10000	09/29/09
Vanadium	51.00	10000	09/29/09
Zinc	66.00	10000	09/29/09

Batch Number: **0064023**

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: Lisa McGall (e-Signature)

Prep Date: 03/10/10
Due Date: 03/16/10

Lot	Work Order			ICP Weight	ICPMS Weight	Hg Weight
A0C050000 Solid	LWAX6	B	Due Date: SDG:		1.00 g	0.60 g
A0C050000 Solid	LWAX6	C	Due Date: SDG:		1.00 g	0.60 g
A0C090496 Solid	LWFVK Total		Due Date: 03/16/10 SDG:		1.00 g	0.60 g
A0C090496 Solid	LWFVM Total		Due Date: 03/16/10 SDG:		1.00 g	0.60 g
A0C090496 Solid	LWFVN Total		Due Date: 03/16/10 SDG:		1.00 g	0.60 g
A0C090496 Solid	LWFVQ Total		Due Date: 03/16/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAG0 Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAG2 Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAG5 Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAG6 Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAG7 Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAG8 Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAG8 Total	S	Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAG8 Total	D	Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAHC Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAHD Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAHE Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAHF Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAHH Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAHK Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAHL Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g
A0C040514 Solid	LWAHM Total		Due Date: 03/25/10 SDG:		1.00 g	0.60 g

Batch Number: **0064023**

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: Lisa McGall (e-Signature)

Prep Date: 03/10/10
Due Date: 03/16/10

Lot	Work Order		ICP Weight	ICPMS Weight	Hg Weight
A0C050520 Solid	LWCWH Total	Due Date: 03/26/10 SDG:		1.00 g	0.60 g
A0C050520 Solid	LWCWJ Total	Due Date: 03/26/10 SDG:		1.00 g	0.60 g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH	X
MS/MSD AND PDS ON BATCH	X
CORRECT SPIKES ADDED	X
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG	X

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

Unless otherwise noted, final volumes are as follows: Soils - 100 mL. Waters - ICP and ICPMS - 50 mL, Hg - 100 mL.

Low Level Hg: final volumes are 40 mL.

ICPMS ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN NA NI PB SB SE TL VX ZN

Matrix Spike Information:

LWAG8	Hg	ICPMS-1	ICPMS-2

Check Sample Information:

LWAX6	Hg	ICPMS-1	ICPMS-2

Prep Method(s): SW846 3050B, SW846 7471A

: Instrument Upload Run Log - Page 1 :
: Started Mon Mar 15 04:08:34 2010 by COUNTSK :
: Data File: UPL$CAN_DATA_ROOT:<LHG>HG10312A.PRN;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument	
1	STD1REP1	1	12-MAR-2010	10:43:43			H1	
2	STD2REP1	1	12-MAR-2010	10:45:00			H1	
3	STD3REP1	1	12-MAR-2010	10:46:06			H1	
4	STD4REP1	1	12-MAR-2010	10:47:11			H1	
5	STD5REP1	1	12-MAR-2010	10:48:16			H1	
6	STD6REP1	1	12-MAR-2010	10:49:24			H1	
7	CK5ICV	1	12-MAR-2010	10:51:05			H1	
8	CK4ICB	1	12-MAR-2010	10:52:20			H1	
9	CK3CRA\MRL	1	12-MAR-2010	10:53:25			H1	
10	CK2CCV	1	12-MAR-2010	10:54:31			H1	
11	CK1CCB	1	12-MAR-2010	10:55:37			H1	
12	LWF9VB	1	12-MAR-2010	10:56:41	0069013	A0C100000	H1	
13	LWF9VC	1	12-MAR-2010	10:57:55	0069013	A0C100000	H1	
14	LWFJD	1	12-MAR-2010	10:59:01	0069013	0C09463	H1	
15	LWFJDS	1	12-MAR-2010	11:00:25	0069013	0C09463	H1	
16	LWFJDD	1	12-MAR-2010	11:01:31	0069013	0C09463	H1	
17	LWFJN	1	12-MAR-2010	11:02:42	0069013	0C09463	H1	
18	LWFJQ	1	12-MAR-2010	11:03:46	0069013	0C09463	H1	
19	LWE30	1	12-MAR-2010	11:05:01	0069013	A0C090412	H1	
20	LWE34	1	12-MAR-2010	11:06:07	0069013	A0C090412	H1	
21	LWFJJ	1	12-MAR-2010	11:07:14	0069013	0C09463	H1	
22	CK2CCV	1	12-MAR-2010	11:08:19			H1	
23	CK1CCB	1	12-MAR-2010	11:09:29			H1	
24	LWE31	1	12-MAR-2010	11:10:38	0069013	A0C090412	H1	
25	LWE3Q	1	12-MAR-2010	11:12:05	0069013	A0C090412	H1	
26	LWE33	1	12-MAR-2010	11:13:10	0069013	A0C090412	H1	
27	LWFJL	1	12-MAR-2010	11:14:28	0069013	0C09463	H1	
28	LWAX6B	1	12-MAR-2010	11:15:32	0064023	A0C050000	H1	
29	LWAX6C	1	12-MAR-2010	11:16:39	0064023	A0C050000	H1	
30	LWAG8	1	12-MAR-2010	11:17:50	0064023	A0C040514	H1	Serial dilutor at 14:59
31	LWAG8S	1	12-MAR-2010	11:19:07	0064023	A0C040514	H1	
32	LWAG8D	1	12-MAR-2010	11:20:12	0064023	A0C040514	H1	
33	LWAG2	1	12-MAR-2010	11:21:18	0064023	A0C040514	H1	
34	CK2CCV	1	12-MAR-2010	11:22:43			H1	
35	CK1CCB	1	12-MAR-2010	11:24:12			H1	
36	LWAG7	1	12-MAR-2010	11:25:17	0064023	A0C040514	H1	
37	LWAHD	1	12-MAR-2010	11:26:23	0064023	A0C040514	H1	
38	LWCWH	1	12-MAR-2010	11:27:30	0064023	A0C050520	H1	
39	LWFVK	1	12-MAR-2010	11:28:34	0064023	A0C090496	H1	
40	LWFVN	1	12-MAR-2010	11:29:39	0064023	A0C090496	H1	
41	LWAG6	1	12-MAR-2010	11:30:44	0064023	A0C040514	H1	
42	LWAHM	1	12-MAR-2010	11:31:50	0064023	A0C040514	H1	
43	LWAHC	1	12-MAR-2010	11:32:55	0064023	A0C040514	H1	
44	LWCWJ	1	12-MAR-2010	11:34:12	0064023	A0C050520	H1	

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument	
45	LWAHE	1	12-MAR-2010	11:35:21	0064023	A0C040514	H1	
46	CK2CCV	1	12-MAR-2010	11:36:27			H1	
47	CK1CCB	1	12-MAR-2010	11:37:33			H1	
48	LWAG5	1	12-MAR-2010	11:38:39	0064023	A0C040514	H1	
49	LWAG0	1	12-MAR-2010	11:39:58	0064023	A0C040514	H1	
50	LWFVM	1	12-MAR-2010	11:41:06	0064023	A0C090496	H1	
51	LWAHF	1	12-MAR-2010	11:42:21	0064023	A0C040514	H1	
52	LWAHL	1	12-MAR-2010	11:43:26	0064023	A0C040514	H1	
53	LWAHH	1	12-MAR-2010	11:44:35	0064023	A0C040514	H1	
54	LWAHK	1	12-MAR-2010	11:45:54	0064023	A0C040514	H1	
55	LWFVQ	1	12-MAR-2010	11:47:10	0064023	A0C090496	H1	
56	LWHT7B	1	12-MAR-2010	11:48:28	0070025	A0C110000	H1	
57	LWHT7C	1	12-MAR-2010	11:49:34	0070025	A0C110000	H1	
58	CK2CCV	1	12-MAR-2010	11:50:39			H1	
59	CK1CCB	1	12-MAR-2010	11:51:46			H1	
60	LWGC9	1	12-MAR-2010	11:52:54	0070025	A0C100403	H1	Actual dilution at 15:01
61	LWGC9S	1	12-MAR-2010	11:54:02	0070025	A0C100403	H1	
62	LWGC9D	1	12-MAR-2010	11:55:08	0070025	A0C100403	H1	
63	LWGDN	1	12-MAR-2010	11:56:14	0070025	A0C100403	H1	
64	LWGDA	1	12-MAR-2010	11:57:20	0070025	A0C100403	H1	
65	LWGDG	1	12-MAR-2010	11:58:28	0070025	A0C100403	H1	
66	LWGDM	1	12-MAR-2010	11:59:35	0070025	A0C100403	H1	
67	LWGC8	1	12-MAR-2010	12:01:00	0070025	A0C100403	H1	
68	LWGDJ	1	12-MAR-2010	12:02:16	0070025	A0C100403	H1	
69	LWGDL	1	12-MAR-2010	12:03:24	0070025	A0C100403	H1	
70	CK2CCV	1	12-MAR-2010	12:04:32			H1	
71	CK1CCB	1	12-MAR-2010	12:05:41			H1	
72	LWHC2	1	12-MAR-2010	12:06:48	0070025	A0C100516	H1	
73	LWGDK	1	12-MAR-2010	12:07:54	0070025	A0C100403	H1	
74	LWGDC	1	12-MAR-2010	12:09:01	0070025	A0C100403	H1	
75	LWGDE	1	12-MAR-2010	12:10:17	0070025	A0C100403	H1	
76	LWHC7	1	12-MAR-2010	12:11:36	0070025	A0C100516	H1	
77	LWGDF	1	12-MAR-2010	12:12:46	0070025	A0C100403	H1	
78	LWGDD	1	12-MAR-2010	12:13:53	0070025	A0C100403	H1	
79	LWGDH	1	12-MAR-2010	12:15:00	0070025	A0C100403	H1	
80	LWHT5B	1	12-MAR-2010	12:16:15	0070024	A0C110000	H1	
81	LWHT5C	1	12-MAR-2010	12:17:25	0070024	A0C110000	H1	
82	CK2CCV	1	12-MAR-2010	12:18:31			H1	
83	CK1CCB	1	12-MAR-2010	12:19:42			H1	
84	LWGM7	1	12-MAR-2010	12:21:13	0070024	0C10438	H1	
85	LWGM7S	1	12-MAR-2010	12:22:24	0070024	0C10438	H1	
86	LWGM7D	1	12-MAR-2010	12:23:41	0070024	0C10438	H1	
87	LWG5C	1	12-MAR-2010	12:24:49	0070024	A0C100479	H1	
88	LWG5P	1	12-MAR-2010	12:25:55	0070024	A0C100479	H1	

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	LWG47	1	12-MAR-2010	12:27:03	0070024	A0C100479	H1
90	LWG5K	1	12-MAR-2010	12:28:11	0070024	A0C100479	H1
91	LWG5G	1	12-MAR-2010	12:29:46	0070024	A0C100479	H1
92	LWG6L	1	12-MAR-2010	12:30:57	0070024	A0C100479	H1
93	LWG6J	1	12-MAR-2010	12:32:08	0070024	A0C100479	H1
94	CK2CCV	1	12-MAR-2010	12:33:14			H1
95	CK1CCB	1	12-MAR-2010	12:34:19			H1
96	LWGNF	1	12-MAR-2010	12:35:30	0070024	0C10438	H1
97	LWG5X	1	12-MAR-2010	12:36:37	0070024	A0C100479	H1
98	LWG52	1	12-MAR-2010	12:37:42	0070024	A0C100479	H1
99	LWG6C	1	12-MAR-2010	12:39:41	0070024	A0C100479	H1
100	LWG6F	1	12-MAR-2010	12:41:01	0070024	A0C100479	H1
101	LWG58	1	12-MAR-2010	12:42:07	0070024	A0C100479	H1
102	LWG5T	1	12-MAR-2010	12:43:16	0070024	A0C100479	H1
103	LWG6N	1	12-MAR-2010	12:44:28	0070024	A0C100479	H1
104	LWG5J	1	12-MAR-2010	12:45:35	0070024	A0C100479	H1
105	LWG56	1	12-MAR-2010	12:46:52	0070024	A0C100479	H1
106	CK2CCV	1	12-MAR-2010	12:48:00			H1
107	CK1CCB	1	12-MAR-2010	12:49:07			H1
108	LWG5M	1	12-MAR-2010	12:50:18	0070024	A0C100479	H1
109	LWG54	1	12-MAR-2010	12:51:26	0070024	A0C100479	H1
110	CK2CCV	1	12-MAR-2010	12:53:24			H1
111	CK1CCB	1	12-MAR-2010	12:54:41			H1
112	CK2CCV	1	12-MAR-2010	14:57:48			H1
113	CK1CCB	1	12-MAR-2010	14:58:54			H1
114	LWAG8L	1	12-MAR-2010	14:59:58			H1
115	LWGC9L	1	12-MAR-2010	15:01:24			H1
116	LWHT1B	1	12-MAR-2010	15:02:29	0070022	A0C110000	H1
117	LWHT1C	1	12-MAR-2010	15:03:43	0070022	A0C110000	H1
118	LWGC0	1	12-MAR-2010	15:05:09	0070022	A0C100403	H1
119	LWGC0L	1	12-MAR-2010	15:06:24			H1
120	LWGC0S	1	12-MAR-2010	15:07:28	0070022	A0C100403	H1
121	LWGC0D	1	12-MAR-2010	15:08:40	0070022	A0C100403	H1
122	LWGC5	1	12-MAR-2010	15:09:46	0070022	A0C100403	H1
123	LWGA9	1	12-MAR-2010	15:11:02	0070022	A0C100403	H1
124	CK2CCV	1	12-MAR-2010	15:13:00			H1
125	CK1CCB	1	12-MAR-2010	15:14:04			H1
126	LWGC7	1	12-MAR-2010	15:15:10	0070022	A0C100403	H1
127	LWGA8	1	12-MAR-2010	15:16:18	0070022	A0C100403	H1
128	LWGC4	1	12-MAR-2010	15:17:22	0070022	A0C100403	H1
129	LWGC6	1	12-MAR-2010	15:18:28	0070022	A0C100403	H1
130	LWGC2	1	12-MAR-2010	15:19:42	0070022	A0C100403	H1
131	LWGCX	1	12-MAR-2010	15:21:13	0070022	A0C100403	H1
132	LWGCF	1	12-MAR-2010	15:22:18	0070022	A0C100403	H1

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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
133	LWGCA	1	12-MAR-2010	15:23:24	0070022	A0C100403	H1
134	LWGC1	1	12-MAR-2010	15:24:35	0070022	A0C100403	H1
135	LWGCG	1	12-MAR-2010	15:25:56	0070022	A0C100403	H1
136	CK2CCV	1	12-MAR-2010	15:27:01			H1
137	CK1CCB	1	12-MAR-2010	15:28:19			H1
138	LWGCD	1	12-MAR-2010	15:29:24	0070022	A0C100403	H1
139	LWGA6	1	12-MAR-2010	15:30:31	0070022	A0C100403	H1
140	LWGC3	1	12-MAR-2010	15:31:41	0070022	A0C100403	H1
141	LWGCC	1	12-MAR-2010	15:32:49	0070022	A0C100403	H1
142	LWHT3B	1	12-MAR-2010	15:33:56	0070023	A0C110000	H1
143	LWHT3C	1	12-MAR-2010	15:35:00	0070023	A0C110000	H1
144	LWHF7	1	12-MAR-2010	15:36:06	0070023	0C09463	H1
145	LWHF7S	1	12-MAR-2010	15:37:12	0070023	0C09463	H1
146	LWHF7D	1	12-MAR-2010	15:38:23	0070023	0C09463	H1
147	LWHGW	1	12-MAR-2010	15:39:33	0070023	0C09463	H1
148	CK2CCV	1	12-MAR-2010	15:40:39			H1
149	CK1CCB	1	12-MAR-2010	15:41:44			H1
150	LWHHM	1	12-MAR-2010	15:42:59	0070023	0C09463	H1
151	LWHHC	1	12-MAR-2010	15:44:08	0070023	0C09463	H1
152	LWHHJ	1	12-MAR-2010	15:45:16	0070023	0C09463	H1
153	LWHHF	1	12-MAR-2010	15:46:24	0070023	0C09463	H1
154	LWHHV	1	12-MAR-2010	15:47:28	0070023	0C09463	H1
155	LWHHD	1	12-MAR-2010	15:48:34	0070023	0C09463	H1
156	LWHG5	1	12-MAR-2010	15:49:42	0070023	0C09463	H1
157	LWHHP	1	12-MAR-2010	15:50:50	0070023	0C09463	H1
158	LWHHX	1	12-MAR-2010	15:51:55	0070023	0C09463	H1
159	LWKE0B	1	12-MAR-2010	15:53:10	0071018	A0C120000	H1
160	CK2CCV	1	12-MAR-2010	15:54:16			H1
161	CK1CCB	1	12-MAR-2010	15:55:25			H1
162	LWKE0C	1	12-MAR-2010	15:56:40	0071018	A0C120000	H1
163	LWJE1	1	12-MAR-2010	15:57:51	0071018	0C09463	H1
164	LWJE1S	1	12-MAR-2010	15:58:57	0071018	0C09463	H1
165	LWJE1D	1	12-MAR-2010	16:00:23	0071018	0C09463	H1
166	LWJF7	1	12-MAR-2010	16:01:29	0071018	A0C110473	H1
167	LWJF7S	1	12-MAR-2010	16:02:34	0071018	A0C110473	H1
168	LWJF7D	1	12-MAR-2010	16:03:43	0071018	A0C110473	H1
169	LWJGW	1	12-MAR-2010	16:04:59	0071018	A0C110473	H1
170	LWJL4	1	12-MAR-2010	16:06:07	0071018	A0C110492	H1
171	LWJG0	1	12-MAR-2010	16:07:13	0071018	A0C110473	H1
172	CK2CCV	1	12-MAR-2010	16:08:19			H1
173	CK1CCB	1	12-MAR-2010	16:09:27			H1
174	LWJG2	1	12-MAR-2010	16:10:52	0071018	A0C110473	H1
175	LWJDF	1	12-MAR-2010	16:12:07	0071018	A0C110460	H1
176	LWJL6	1	12-MAR-2010	16:13:13	0071018	A0C110492	H1

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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
177	LWJGQ	1	12-MAR-2010	16:14:19	0071018	A0C110473	H1
178	LWJC2	1	12-MAR-2010	16:15:46	0071018	A0C110460	H1
179	CK2CCV	1	12-MAR-2010	16:18:28			H1
180	CK1CCB	1	12-MAR-2010	16:19:47			H1
181	LWJEV	1	12-MAR-2010	16:20:52	0071018	0C09463	H1
182	LWJDA	1	12-MAR-2010	16:22:00	0071018	A0C110460	H1
183	LWJDE	1	12-MAR-2010	16:23:05	0071018	A0C110460	H1
184	LWJL0	1	12-MAR-2010	16:24:16	0071018	A0C110492	H1
185	LWKE2B	1	12-MAR-2010	16:25:22	0071020	A0C120000	H1
186	LWKE2C	1	12-MAR-2010	16:26:28	0071020	A0C120000	H1
187	LWHLF	1	12-MAR-2010	16:27:36	0071020	A0C100541	H1
188	LWHLFL	1	12-MAR-2010	16:28:41			H1
189	LWHLFS	1	12-MAR-2010	16:29:48	0071020	A0C100541	H1
190	LWHLFD	1	12-MAR-2010	16:30:58	0071020	A0C100541	H1
191	CK2CCV	1	12-MAR-2010	16:32:07			H1
192	CK1CCB	1	12-MAR-2010	16:33:12			H1
193	LWJ1L	1	12-MAR-2010	16:34:17	0071020	A0C110532	H1
194	LWHLJ	1	12-MAR-2010	16:35:24	0071020	A0C100541	H1
195	LWHK9	1	12-MAR-2010	16:36:32	0071020	A0C100541	H1
196	LWHLD	1	12-MAR-2010	16:37:41	0071020	A0C100541	H1
197	LWHLK	1	12-MAR-2010	16:39:06	0071020	A0C100541	H1
198	LWJ1K	1	12-MAR-2010	16:40:24	0071020	A0C110532	H1
199	LWHLT	1	12-MAR-2010	16:41:32	0071020	A0C100541	H1
200	LWJ1C	1	12-MAR-2010	16:42:40	0071020	A0C110532	H1
201	LWHLH	1	12-MAR-2010	16:44:00	0071020	A0C100541	H1
202	LWHLR	1	12-MAR-2010	16:45:12	0071020	A0C100541	H1
203	CK2CCV	1	12-MAR-2010	16:46:18			H1
204	CK1CCB	1	12-MAR-2010	16:48:23			H1
205	LWHLE	1	12-MAR-2010	16:49:38	0071020	A0C100541	H1
206	LWJ1M	1	12-MAR-2010	16:50:45	0071020	A0C110532	H1
207	LWJ1N	1	12-MAR-2010	16:51:52	0071020	A0C110532	H1
208	LWGDF	5	12-MAR-2010	16:53:08	0070025	A0C100403	H1
209	LWGC7	5	12-MAR-2010	16:54:27	0070022	A0C100403	H1
210	CK2CCV	1	12-MAR-2010	16:55:47			H1
211	CK1CCB	1	12-MAR-2010	16:56:52			H1

End of Report

: Instrument Upload Run Log - Page 1 :
: Started Tue Mar 16 05:22:41 2010 by COUNTSK :
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1	STD1	1	15-MAR-2010	11:32:57			I8
2	STD2	1	15-MAR-2010	11:36:59			I8
3	STD3	1	15-MAR-2010	11:43:39			I8
4	STD4	1	15-MAR-2010	11:50:22			I8
5	ICV	1	15-MAR-2010	11:54:54			I8
6	ICB	1	15-MAR-2010	12:01:40			I8
7	CRI	1	15-MAR-2010	12:06:13			I8
8	CRIQ	1	15-MAR-2010	12:10:50	Qsm CRI		I8
9	ICSA	1	15-MAR-2010	12:15:26			I8
10	ICSAB	1	15-MAR-2010	12:20:03			I8
11	CCV	1	15-MAR-2010	12:26:50			I8
12	CCB	1	15-MAR-2010	12:33:36			I8
13	LWDXGB	1	15-MAR-2010	12:38:05	0067018	A0C080000	I8
14	LWDXGC	1	15-MAR-2010	12:42:19	0067018	A0C080000	I8
15	LWCPP	1	15-MAR-2010	12:49:01	0067018	A0C050492	I8
16	LWCPPS	1	15-MAR-2010	12:53:29	0067018	A0C050492	I8
17	LWCPPD	1	15-MAR-2010	13:00:15	0067018	A0C050492	I8
18	LWCQN	1	15-MAR-2010	13:07:01	0067018	A0C050492	I8
19	LWCQP	1	15-MAR-2010	13:11:46	0067018	A0C050492	I8
20	LWCQQ	1	15-MAR-2010	13:16:19	0067018	A0C050492	I8
21	LWCQT	1	15-MAR-2010	13:20:53	0067018	A0C050492	I8
22	LWCQV	1	15-MAR-2010	13:25:26	0067018	A0C050492	I8
23	CCV	1	15-MAR-2010	13:30:01			I8
24	CCB	1	15-MAR-2010	13:36:49			I8
25	LWCQ7	1	15-MAR-2010	13:41:21	0067018	A0C050506	I8
26	LWCQ9	1	15-MAR-2010	13:45:58	0067018	A0C050506	I8
27	LWCRC	1	15-MAR-2010	13:50:30	0067018	A0C050506	I8
28	LWCRE	1	15-MAR-2010	13:55:00	0067018	A0C050506	I8
29	LWCRF	1	15-MAR-2010	13:59:30	0067018	A0C050506	I8
30	LWCRG	1	15-MAR-2010	14:04:02	0067018	A0C050506	I8
31	LWCRK	1	15-MAR-2010	14:08:32	0067018	A0C050506	I8
32	LWCRM	1	15-MAR-2010	14:13:04	0067018	A0C050506	I8
33	LWCRN	1	15-MAR-2010	14:17:40	0067018	A0C050506	I8
34	LWDLA	1	15-MAR-2010	14:22:13	0067018	A0C060421	I8
35	CCV	1	15-MAR-2010	14:26:44			I8
36	CCB	1	15-MAR-2010	14:33:29			I8
37	LWDLAL	1	15-MAR-2010	14:38:01			I8
38	CCV	1	15-MAR-2010	14:42:33			I8
39	CCB	1	15-MAR-2010	14:49:18			I8
40	LWAX6B	1	15-MAR-2010	14:53:50	0064023	A0C050000	I8
41	LWAX6C	1	15-MAR-2010	14:58:22	0064023	A0C050000	I8
42	LWFVK	1	15-MAR-2010	15:04:41	0064023	A0C090496	I8
43	LWFVM	1	15-MAR-2010	15:09:13	0064023	A0C090496	I8
44	LWFVN	1	15-MAR-2010	15:13:44	0064023	A0C090496	I8

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:       Started Tue Mar 16 05:22:41 2010 by COUNTSK                          :
:       Data File: UPL$CAN_DATA_ROOT:<REP>I80315A.CSV;1                      :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	LWFVQ	1	15-MAR-2010	15:18:21	0064023	A0C090496	I8
46	LWGP2	1	15-MAR-2010	15:22:54	0070017	A0C100442	I8
47	LWGP2F	1	15-MAR-2010	15:27:30	0070017	A0C100442	I8
48	LWKETB	1	15-MAR-2010	15:32:02	0071016	A0C120000	I8
49	CCV	1	15-MAR-2010	15:36:40			I8
50	CCB	1	15-MAR-2010	15:43:25			I8
51	LWCQQ	5	15-MAR-2010	15:47:58	0067018	A0C050492	I8
52	LWCQT	5	15-MAR-2010	15:52:32	0067018	A0C050492	I8

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Instrument Upload Run Log - Page 1

Started Wed Mar 17 05:57:02 2010 by COUNTSK

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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1	1	16-MAR-2010	06:44:45			I8
2	STD2	1	16-MAR-2010	06:49:26			I8
3	STD3	1	16-MAR-2010	06:56:17			I8
4	STD4	1	16-MAR-2010	07:03:07			I8
5	ICV	1	16-MAR-2010	07:09:23			I8
6	ICB	1	16-MAR-2010	07:16:14			I8
7	CRI	1	16-MAR-2010	07:20:55			I8
8	CRIQ	1	16-MAR-2010	07:25:36	QSM CRI		I8
9	ICSA	1	16-MAR-2010	07:30:16			I8
10	ICSAB	1	16-MAR-2010	07:34:55			I8
11	CCV	1	16-MAR-2010	07:41:47			I8
12	CCB	1	16-MAR-2010	07:48:37			I8
13	LWDXGC	1	16-MAR-2010	07:54:38			I8
14	LWCQQ	5	16-MAR-2010	08:01:29			I8
15	LWCQT	5	16-MAR-2010	08:07:23			I8
16	LWCRF	5	16-MAR-2010	08:12:00			I8
17	LWAX6C	1	16-MAR-2010	08:16:36			I8
18	LWKETB	1	16-MAR-2010	08:23:27			I8
19	LWKETC	1	16-MAR-2010	08:28:11			I8
20	LWH48F	10	16-MAR-2010	08:35:03	0071016	A0C110428	I8
21	LWHT7B	1	16-MAR-2010	08:40:35			I8
22	LWHT7C	1	16-MAR-2010	08:45:17			I8
23	CCV	1	16-MAR-2010	08:52:07			I8
24	CCB	1	16-MAR-2010	08:58:58			I8
25	LWHC2	1	16-MAR-2010	09:05:02			I8
26	LWHC7	1	16-MAR-2010	09:09:42			I8
27	LWGLC	1	16-MAR-2010	09:14:18			I8
28	LWGLCS	1	16-MAR-2010	09:18:54			I8
29	LWGLCD	1	16-MAR-2010	09:25:45			I8
30	LWGLM	1	16-MAR-2010	09:32:35			I8
31	LWGLN	1	16-MAR-2010	09:38:58			I8
32	LWGLNL	1	16-MAR-2010	09:43:36			I8
33	LWGLW	1	16-MAR-2010	09:48:13			I8
34	LWH3A	1	16-MAR-2010	09:53:00	0071016	A0C110415	I8
35	CCV	1	16-MAR-2010	09:57:37			I8
36	CCB	1	16-MAR-2010	10:04:27			I8
37	LWH3AS	1	16-MAR-2010	10:11:20	0071016	A0C110415	I8
38	LWH3AD	1	16-MAR-2010	10:18:13	0071016	A0C110415	I8
39	LWH3J	1	16-MAR-2010	10:25:05	0071016	A0C110415	I8
40	LWH3L	1	16-MAR-2010	10:31:58	0071016	A0C110415	I8
41	LWH3M	1	16-MAR-2010	10:36:36	0071016	A0C110415	I8
42	LWH3ML	1	16-MAR-2010	10:41:14			I8
43	LWJDP	1	16-MAR-2010	10:45:51	0071016	0C09463	I8
44	LWJDPF	1	16-MAR-2010	10:50:56	0071016	0C09463	I8

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Instrument Upload — Run Log - Page 1

Started Mon Mar 22 07:33:34 2010 by COUNTSK

Data File: UPL$CAN_DATA_ROOT:<REP>I80319A.CSV;1

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument	
1	STD1	1	19-MAR-2010	07:28:04			I8	
2	STD2	1	19-MAR-2010	07:32:39			I8	
3	STD3	1	19-MAR-2010	07:39:30			I8	
4	STD4	1	19-MAR-2010	07:46:21			I8	
5	ICV	1	19-MAR-2010	07:52:14			I8	
6	ICB	1	19-MAR-2010	07:59:06			I8	
7	CRI	1	19-MAR-2010	08:03:43			I8	
8	CRIQ	1	19-MAR-2010	08:08:26	Rerun		I8	
9	CRIQ	1	19-MAR-2010	08:13:06	QSMCRI		I8	
10	ICSA	1	19-MAR-2010	08:17:56			I8	
11	ICSAB	1	19-MAR-2010	08:22:35			I8	
12	CCV	1	19-MAR-2010	08:29:27			I8	
13	CCB	1	19-MAR-2010	08:36:16			I8	
14	LWKE0B	1	19-MAR-2010	08:42:06	0071018	A0C120000	I8	
15	LWKE0C	1	19-MAR-2010	08:46:43	0071018	A0C120000	I8	
16	LWJL0	1	19-MAR-2010	08:53:32	0071018	A0C110492	I8	
17	LWJL4	1	19-MAR-2010	08:58:13	0071018	A0C110492	I8	
18	LWJL6	1	19-MAR-2010	09:02:56	0071018	A0C110492	I8	
19	LWJF7	1	19-MAR-2010	09:07:42	0071018	A0C110473	I8	
20	LWJF7S	5	19-MAR-2010	09:12:34	0071018	A0C110473	I8	
21	LWJF7D	5	19-MAR-2010	09:18:43	0071018	A0C110473	I8	
22	LWRX8B	1	19-MAR-2010	09:25:01	0077026	A0C180000	I8	
23	LWRX8C	1	19-MAR-2010	09:29:38	0077026	A0C180000	I8	
24	CCV	1	19-MAR-2010	09:36:30			I8	
25	CCB	1	19-MAR-2010	09:43:20			I8	
26	LWQ1E	1	19-MAR-2010	09:48:06	0077026	A0C170527	I8	
27	LWQ1L	1	19-MAR-2010	09:52:47	0077026	A0C170527	I8	
28	LWQ1N	1	19-MAR-2010	09:57:26	0077026	A0C170527	I8	
29	LWQ1Q	1	19-MAR-2010	10:02:10	0077026	A0C170527	I8	
30	LWQ1R	1	19-MAR-2010	10:06:45	0077026	A0C170527	I8	
31	LWQ1T	1	19-MAR-2010	10:11:27	0077026	A0C170527	I8	
32	LWQ1V	1	19-MAR-2010	10:16:04	0077026	A0C170527	I8	
33	LWRLE	1	19-MAR-2010	10:20:42	0077026	A0C170537	I8	
34	LWRLEL	1	19-MAR-2010	10:25:19			I8	
35	LWRLES	10	19-MAR-2010	10:29:57	0077026	A0C170537	I8	
36	CCV	1	19-MAR-2010	10:34:51			I8	
37	CCB	1	19-MAR-2010	10:41:41			I8	
38	LWRLED	10	19-MAR-2010	10:46:18	0077026	A0C170537	I8	
39	LWRLEA	1	19-MAR-2010	10:51:34	0077026	A0C170537	I8	Zn Cd TL Ca Se Ag Na Cr Cu Ts Sb
40	LWJ4G	1	19-MAR-2010	10:58:27	0077026	A0C110539	I8	
41	LWLNN	1	19-MAR-2010	11:03:08	0077026	A0C120576	I8	
42	LWRLD	1	19-MAR-2010	11:07:50	0077026	A0C170537	I8	
43	LWRLH	1	19-MAR-2010	11:12:31	0077026	A0C170537	I8	
44	LWGC9	1	19-MAR-2010	11:17:10	0070025	A0C100403	I8	

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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument	
45	LWGC9L	1	19-MAR-2010	11:21:46			I8	
46	LWGC9S	10	19-MAR-2010	11:26:23	0070025	A0C100403	I8	
47	LWGC9D	10	19-MAR-2010	11:31:20	0070025	A0C100403	I8	
48	CCV	1	19-MAR-2010	11:36:19			I8	
49	CCB	1	19-MAR-2010	11:43:11			I8	
50	LWGC9A	1	19-MAR-2010	11:47:48	0070025	A0C100403	I8	K Zn Cd TL Be Ca Se Ag Na Cr Cu Sb
51	LV9DW	1	19-MAR-2010	11:54:41	0064020	A0C030547	I8	
52	LV9J0B	1	19-MAR-2010	11:59:31	0063027	A0C040000	I8	
53	LV9J0C	1	19-MAR-2010	12:04:19	0063027	A0C040000	I8	
54	LV9D4	1	19-MAR-2010	12:11:13	0063027	A0C030547	I8	
55	LWAG8	1	19-MAR-2010	12:16:08	0064023	A0C040514	I8	
56	LWAG8L	1	19-MAR-2010	12:20:48			I8	
57	LWAG8A	1	19-MAR-2010	12:25:26	0064023	A0C040514	I8	Zn Cd TL Al Ni Se Ag Na Cu Sb
58	LWAG8S	10	19-MAR-2010	12:32:24	0064023	A0C040514	I8	
59	LWAG8D	10	19-MAR-2010	12:37:56	0064023	A0C040514	I8	
60	CCV	1	19-MAR-2010	12:43:00			I8	
61	CCB	1	19-MAR-2010	12:49:52			I8	
62	LV9D5	1	19-MAR-2010	12:54:39	0063027	A0C030547	I8	
63	LV9D6	1	19-MAR-2010	12:59:22	0063027	A0C030547	I8	
64	LV9D7	1	19-MAR-2010	13:04:08	0063027	A0C030547	I8	
65	LV9D8	1	19-MAR-2010	13:08:52	0063027	A0C030547	I8	
66	LV9D9	1	19-MAR-2010	13:13:38	0063027	A0C030547	I8	
67	LV9EM	1	19-MAR-2010	13:18:18	0063027	A0C030547	I8	
68	LV9EML	1	19-MAR-2010	13:23:07			I8	
69	LV9EMA	1	19-MAR-2010	13:27:47	0063027	A0C030547	I8	Zn Cd TL Ca Se Ag Na Cr Cu Sb
70	LV9EMS	10	19-MAR-2010	13:34:40	0063027	A0C030547	I8	
71	LV9EMD	10	19-MAR-2010	13:40:44	0063027	A0C030547	I8	
72	CCV	1	19-MAR-2010	13:46:10			I8	
73	CCB	1	19-MAR-2010	13:53:01			I8	
74	LV9EA	1	19-MAR-2010	13:57:46	0063027	A0C030547	I8	
75	LV9EC	1	19-MAR-2010	14:02:34	0063027	A0C030547	I8	
76	LV9ED	1	19-MAR-2010	14:07:17	0063027	A0C030547	I8	
77	LV9EE	1	19-MAR-2010	14:12:03	0063027	A0C030547	I8	
78	LV9EF	1	19-MAR-2010	14:16:52	0063027	A0C030547	I8	
79	LV9EG	1	19-MAR-2010	14:21:33	0063027	A0C030547	I8	
80	LV9EH	1	19-MAR-2010	14:26:12	0063027	A0C030547	I8	
81	LV9EJ	1	19-MAR-2010	14:30:52	0063027	A0C030547	I8	
82	LV9EK	1	19-MAR-2010	14:35:36	0063027	A0C030547	I8	
83	LV9EL	1	19-MAR-2010	14:40:19	0063027	A0C030547	I8	
84	CCV	1	19-MAR-2010	14:45:00			I8	
85	CCB	1	19-MAR-2010	14:51:51			I8	
86	LV9EN	1	19-MAR-2010	14:56:34	0063027	A0C030547	I8	
87	LV9EP	1	19-MAR-2010	15:01:17	0063027	A0C030547	I8	
88	LV9EQ	1	19-MAR-2010	15:05:54	0063027	A0C030547	I8	

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	LWAGF	1	19-MAR-2010	15:10:32	0064020	A0C040514	I8
90	LWAGJ	1	19-MAR-2010	15:15:13	0064020	A0C040514	I8
91	LWAGL	1	19-MAR-2010	15:19:55	0064020	A0C040514	I8
92	LWAGM	1	19-MAR-2010	15:24:33	0064020	A0C040514	I8
93	LWAGN	1	19-MAR-2010	15:29:21	0064020	A0C040514	I8
94	LWAGP	1	19-MAR-2010	15:34:10	0064020	A0C040514	I8
95	LWAGR	1	19-MAR-2010	15:38:52	0064020	A0C040514	I8
96	CCV	1	19-MAR-2010	15:43:32			I8
97	CCB	1	19-MAR-2010	15:50:24			I8
98	LWAGT	1	19-MAR-2010	15:55:02	0064020	A0C040514	I8
99	LWAG1	1	19-MAR-2010	15:59:43	0064020	A0C040514	I8
100	LWAG0	1	19-MAR-2010	16:04:23	0064023	A0C040514	I8
101	LWAG2	1	19-MAR-2010	16:09:05	0064023	A0C040514	I8
102	LWAG5	1	19-MAR-2010	16:13:51	0064023	A0C040514	I8
103	LWAG6	1	19-MAR-2010	16:18:36	0064023	A0C040514	I8
104	LWAG7	1	19-MAR-2010	16:23:20	0064023	A0C040514	I8
105	LWAHC	1	19-MAR-2010	16:28:02	0064023	A0C040514	I8
106	LWAHD	1	19-MAR-2010	16:32:42	0064023	A0C040514	I8
107	LWAHE	1	19-MAR-2010	16:37:34	0064023	A0C040514	I8
108	CCV	1	19-MAR-2010	16:42:15			I8
109	CCB	1	19-MAR-2010	16:49:07			I8
110	ICSA	1	19-MAR-2010	16:53:49			I8
111	ICSAB	1	19-MAR-2010	16:58:31			I8
112	CCV	1	19-MAR-2010	17:05:26			I8
113	CCB	1	19-MAR-2010	17:12:20			I8
114	LWAHF	1	19-MAR-2010	17:17:00	0064023	A0C040514	I8
115	LWAHH	1	19-MAR-2010	17:21:42	0064023	A0C040514	I8
116	LWAHK	1	19-MAR-2010	17:26:29	0064023	A0C040514	I8
117	LWAHL	1	19-MAR-2010	17:31:30	0064023	A0C040514	I8
118	LWAHM	1	19-MAR-2010	17:36:10	0064023	A0C040514	I8
119	LWCWH	1	19-MAR-2010	17:40:50	0064023	A0C050520	I8
120	LWCWJ	1	19-MAR-2010	17:45:33	0064023	A0C050520	I8
121	LWGC8	1	19-MAR-2010	17:50:21	0070025	A0C100403	I8
122	LWGDA	1	19-MAR-2010	17:55:03	0070025	A0C100403	I8
123	LWGDC	1	19-MAR-2010	17:59:44	0070025	A0C100403	I8
124	CCV	1	19-MAR-2010	18:04:24			I8
125	CCB	1	19-MAR-2010	18:11:18			I8
126	LWGDD	1	19-MAR-2010	18:15:57	0070025	A0C100403	I8
127	LWGDE	1	19-MAR-2010	18:20:38	0070025	A0C100403	I8
128	LWGDF	1	19-MAR-2010	18:25:24	0070025	A0C100403	I8
129	LWGDG	1	19-MAR-2010	18:30:11	0070025	A0C100403	I8
130	LWGDH	1	19-MAR-2010	18:34:51	0070025	A0C100403	I8
131	LWGDJ	1	19-MAR-2010	18:39:34	0070025	A0C100403	I8
132	LWGDK	1	19-MAR-2010	18:44:15	0070025	A0C100403	I8

(continued)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

INSTRUMENT PRINTOUTS

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information

Run Date: 3-12-10 Analyst: BB Instrument: HI
Prep Batches Run: See Run Log

Circle Methods used: 7470A / 245.1: CORP-MT-0005 Rev 1 7471: CORP-MT-0007 Rev 1

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				✓
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?	✓			✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I Analyst: Karen L Monts Date/Time: 3-15-10
Level I Analyst: _____ Date/Time: _____
Comments: _____

2nd Level Reviewer: [signature] Date/Time: 3.15.10
2nd Level Reviewer: _____ Date/Time: _____
Comments: _____

Curve Prepared Date: 3-12-10 Time: 7:55

ICV CPI 09K153 $SnCL_2$ 0MR110

CAL/CCV HPS 0928106 NACL $NH_2OH{\cdot}HCL$ 9MR160

Revised 01/03/2008

```
*** Standard: 1 Rep: 1              Seq:  0       10:43:43 12 Mar 2010 HG

Hg    .0000   ppb      944

*** Standard: 2 Rep: 1              Seq:  1       10:45:00 12 Mar 2010 HG

Hg    .2000   ppb      9183

*** Standard: 3 Rep: 1              Seq:  2       10:46:06 12 Mar 2010 HG

Hg    .5000   ppb      20295

*** Standard: 4 Rep: 1              Seq:  3       10:47:11 12 Mar 2010 HG

Hg    1.000   ppb      39412

*** Standard: 5 Rep: 1              Seq:  4       10:48:16 12 Mar 2010 HG

Hg    5.000   ppb      195054

*** Standard: 6 Rep: 1              Seq:  5       10:49:24 12 Mar 2010 HG

Hg    10.00   ppb      380632
```

RunProt: HGPPB | Err: Analyzer needs maintenance

RunFold: HG10312A Seq: 6 Batch:

Prnt: R/T On Pump: On

Rev: 4.2 Xmit: Off Gas: 1.00 LPM

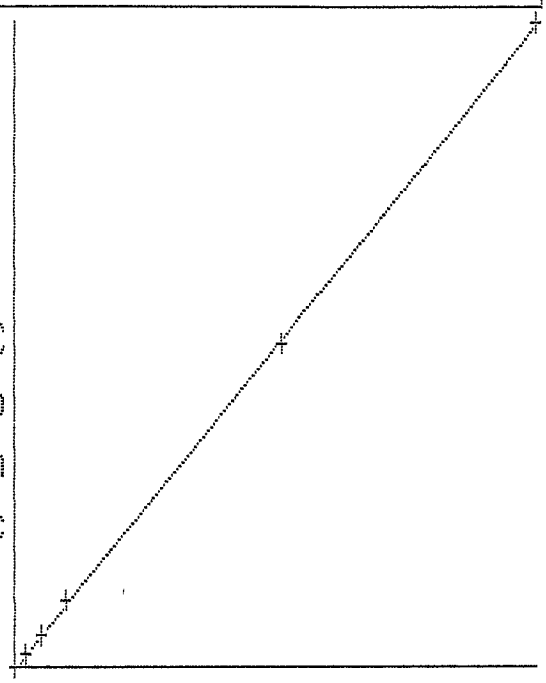
State: Idle Macro HG 59: F3 Print User: SMI A/S: On

CALIBRATION: Line proto: HGPPB

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.0000	-.0194	-.0194	Quadratic
S2	.2000	.1971	-.0029	Wtdlinear
S3	.5000	.4891	-.0109	
S4	1.000	.9916	-.0084	Accept
S5	5.000	5.082	.0821	
S6	10.00	9.959	-.0405	

A .00000000 r .999944

B 2.62819e-5 C -4.42463e-2



	Mean		
S1	944	0 SD	944
S2	9183	0 %RSD	9183
S3	28295	0 %RSD	28295
S4	39412	0 %RSD	39412
S5	195854	0 %RSD	195854
S6	388632	0 %RSD	388632

New cal coefficients stored

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 5 Ck5ICV Seq: 6 10:51:05 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.3	2.507	2.500	ppb	.0000 %

*** Check Standard: 4 Ck4ICB Seq: 7 10:52:20 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		-245100	-.0245	.0000	ppb	.0000 %

*** Check Standard: 3 Ck3CRA\MRL Seq: 8 10:53:25 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		84.08	.1682	.2000	ppb	.0000 %

*** Check Standard: 2 Ck2CCV Seq: 9 10:54:31 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.3	5.114	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 10 10:55:37 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0484	.2000	ppb	.0000 %

*** Sample ID: LWF9VB Seq: 11 10:56:41 12 Mar 2010 HG

0069013

Hg -.0078 ppb .0000 % -.0078

*** Sample ID: LWF9VC Seq: 12 10:57:55 12 Mar 2010 HG

SOLID

Hg 4.945 ppb .0000 % 4.945

*** Sample ID: LWFJD Seq: 13 10:59:01 12 Mar 2010 HG

SOLID

Hg -.0256 ppb .0000 % -.0256

*** Sample ID: LWFJDS Seq: 14 11:00:25 12 Mar 2010 HG

SOLID

Hg 1.069 ppb .0000 % 1.069

*** Sample ID: LWFJDD Seq: 15 11:01:31 12 Mar 2010 HG

SOLID

Hg 1.031 ppb .0000 % 1.031

*** Sample ID: LWFJN Seq: 16 11:02:42 12 Mar 2010 HG

SOLID

Hg .0871 ppb .0000 % .0871

*** Sample ID: LWFJQ Seq: 17 11:03:46 12 Mar 2010 HG

SOLID

Hg .0756 ppb .0000 % .0756

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWE30 Seq: 18 11:05:01 12 Mar 2010 HG
SOLID
Hg .1544 ppb .0000 % .1544

*** Sample ID: LWE34 Seq: 19 11:06:07 12 Mar 2010 HG
SOLID
Hg .1052 ppb .0000 % .1052

*** Sample ID: LWFJJ Seq: 20 11:07:14 12 Mar 2010 HG
SOLID
Hg .4649 ppb .0000 % .4649

*** Check Standard: 2 Ck2CCV Seq: 21 11:08:19 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.2	5.159	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 22 11:09:29 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0293	.2000	ppb	.0000 %

*** Sample ID: LWE31 Seq: 23 11:10:38 12 Mar 2010 HG
SOLID
Hg .1552 ppb .0000 % .1552

*** Sample ID: LWE3Q Seq: 24 11:12:05 12 Mar 2010 HG
SOLID
Hg .1504 ppb .0000 % .1504

*** Sample ID: LWE33 Seq: 25 11:13:10 12 Mar 2010 HG
SOLID
Hg .0815 ppb .0000 % .0815

*** Sample ID: LWFJL Seq: 26 11:14:28 12 Mar 2010 HG
SOLID
Hg .0443 ppb .0000 % .0443

*** Sample ID: LWAX6B Seq: 27 11:15:32 12 Mar 2010 HG
0064023
Hg -.0135 ppb .0000 % -.0135

*** Sample ID: LWAX6C Seq: 28 11:16:39 12 Mar 2010 HG
SOLID
Hg 5.045 ppb .0000 % 5.045

*** Sample ID: LWAG8 Seq: 29 11:17:50 12 Mar 2010 HG
SOLID
Hg .3679 ppb .0000 % .3679 Manual dilution at 14:59

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWAG8S Seq: 30 11:19:07 12 Mar 2010 HG

SOLID

Hg	1.435	ppb	.0000 %	1.435				

*** Sample ID: LWAG8D Seq: 31 11:20:12 12 Mar 2010 HG

SOLID

Hg	1.358	ppb	.0000 %	1.358				

*** Sample ID: LWAG2 Seq: 32 11:21:18 12 Mar 2010 HG

SOLID

Hg	.2107	ppb	.0000 %	.2107				

*** Check Standard: 2 Ck2CCV Seq: 33 11:22:43 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.1	5.153	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 34 11:24:12 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0235	.2000	ppb	.0000 %

*** Sample ID: LWAG7 Seq: 35 11:25:17 12 Mar 2010 HG

SOLID

Hg	.4446	ppb	.0000 %	.4446				

*** Sample ID: LWAHD Seq: 36 11:26:23 12 Mar 2010 HG

SOLID

Hg	.2104	ppb	.0000 %	.2104				

*** Sample ID: LWCWH Seq: 37 11:27:30 12 Mar 2010 HG

SOLID

Hg	.0185	ppb	.0000 %	.0185				

*** Sample ID: LWFVK Seq: 38 11:28:34 12 Mar 2010 HG

SOLID

Hg	.0490	ppb	.0000 %	.0490				

*** Sample ID: LWFVN Seq: 39 11:29:39 12 Mar 2010 HG

SOLID

Hg	.2081	ppb	.0000 %	.2081				

*** Sample ID: LWAG6 Seq: 40 11:30:44 12 Mar 2010 HG

SOLID

Hg	.2229	ppb	.0000 %	.2229				

*** Sample ID: LWAHM Seq: 41 11:31:50 12 Mar 2010 HG

SOLID

Hg	.2515	ppb	.0000 %	.2515				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWAHC Seq: 42 11:32:55 12 Mar 2010 HG

SOLID

Hg	.8546	ppb	.0000 %	.8546				

*** Sample ID: LWCWJ Seq: 43 11:34:12 12 Mar 2010 HG

SOLID

Hg	.0317	ppb	.0000 %	.0317				

*** Sample ID: LWAHE Seq: 44 11:35:21 12 Mar 2010 HG

SOLID

Hg	.2597	ppb	.0000 %	.2597				

*** Check Standard: 2 Ck2CCV Seq: 45 11:36:27 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.7	5.187	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 46 11:37:33 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0447	.2000	ppb	.0000 %

*** Sample ID: LWAG5 Seq: 47 11:38:39 12 Mar 2010 HG

SOLID

Hg	.2009	ppb	.0000 %	.2009				

*** Sample ID: LWAGO Seq: 48 11:39:58 12 Mar 2010 HG

SOLID

Hg	.2789	ppb	.0000 %	.2789				

*** Sample ID: LWFVM Seq: 49 11:41:06 12 Mar 2010 HG

SOLID

Hg	.1810	ppb	.0000 %	.1810				

*** Sample ID: LWAHF Seq: 50 11:42:21 12 Mar 2010 HG

SOLID

Hg	.2267	ppb	.0000 %	.2267				

*** Sample ID: LWAHL Seq: 51 11:43:26 12 Mar 2010 HG

SOLID

Hg	.4218	ppb	.0000 %	.4218				

*** Sample ID: LWAHH Seq: 52 11:44:35 12 Mar 2010 HG

SOLID

Hg	.2154	ppb	.0000 %	.2154				

*** Sample ID: LWAHK Seq: 53 11:45:54 12 Mar 2010 HG

SOLID

Hg	.2661	ppb	.0000 %	.2661				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: LWFVQ				Seq: 54	11:47:10 12 Mar 2010 HG			
				SOLID				
Hg	.0505	ppb	.0000 %	.0505				
*** Sample ID: LWHT7B				Seq: 55	11:48:28 12 Mar 2010 HG			
				0070025				
Hg	-.0240	ppb	.0000 %	-.0240				
*** Sample ID: LWHT7C				Seq: 56	11:49:34 12 Mar 2010 HG			
				SOLID				
Hg	4.931	ppb	.0000 %	4.931				

*** Check Standard: 2 Ck2CCV Seq: 57 11:50:39 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.6	5.128	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 58 11:51:46 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0422	.2000	ppb	.0000 %

*** Sample ID: LWGC9				Seq: 59	11:52:54 12 Mar 2010 HG			
				SOLID				
Hg	.1764	ppb	.0000 %	.1764	Annual dilution at 15:01			
*** Sample ID: LWGC9S				Seq: 60	11:54:02 12 Mar 2010 HG			
				SOLID				
Hg	1.243	ppb	.0000 %	1.243				
*** Sample ID: LWGC9D				Seq: 61	11:55:08 12 Mar 2010 HG			
				SOLID				
Hg	1.140	ppb	.0000 %	1.140				
*** Sample ID: LWGDN				Seq: 62	11:56:14 12 Mar 2010 HG			
				SOLID				
Hg	.2955	ppb	.0000 %	.2955				
*** Sample ID: LWGDA				Seq: 63	11:57:20 12 Mar 2010 HG			
				SOLID				
Hg	.0596	ppb	.0000 %	.0596				
*** Sample ID: LWGDG				Seq: 64	11:58:28 12 Mar 2010 HG			
				SOLID				
Hg	.5906	ppb	.0000 %	.5906				
*** Sample ID: LWGDM				Seq: 65	11:59:35 12 Mar 2010 HG			
				SOLID				
Hg	.0825	ppb	.0000 %	.0825				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWGC8 Seq: 66 12:01:00 12 Mar 2010 HG

SOLID

Hg 4.038 ppb .0000 % 4.038

*** Sample ID: LWGDJ Seq: 67 12:02:16 12 Mar 2010 HG

SOLID

Hg .4107 ppb .0000 % .4107

*** Sample ID: LWGDL Seq: 68 12:03:24 12 Mar 2010 HG

SOLID

Hg .1695 ppb .0000 % .1695

*** Check Standard: 2 Ck2CCV Seq: 69 12:04:32 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.9	5.146	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 70 12:05:41 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0255	.2000	ppb	.0000 %

*** Sample ID: LWHC2 Seq: 71 12:06:48 12 Mar 2010 HG

SOLID

Hg .0866 ppb .0000 % .0866

*** Sample ID: LWGDK Seq: 72 12:07:54 12 Mar 2010 HG

SOLID

Hg .1553 ppb .0000 % .1553

*** Sample ID: LWGDC Seq: 73 12:09:01 12 Mar 2010 HG

SOLID

Hg 8.344 ppb .0000 % 8.344

*** Sample ID: LWGDE Seq: 74 12:10:17 12 Mar 2010 HG

SOLID

Hg .0891 ppb .0000 % .0891

*** Sample ID: LWHC7 Seq: 75 12:11:36 12 Mar 2010 HG

SOLID

Hg .0384 ppb .0000 % .0384

*** Sample ID: LWGDF Seq: 76 12:12:46 12 Mar 2010 HG

SOLID

Hg 11.53 ppb dilute % 11.53

*** Sample ID: LWGDD Seq: 77 12:13:53 12 Mar 2010 HG

SOLID

Hg .0833 ppb .0000 % .0833

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWGDH Seq: 78 12:15:00 12 Mar 2010 HG

SOLID

Hg 1.384 ppb .0000 % 1.384

*** Sample ID: LWHT5B Seq: 79 12:16:15 12 Mar 2010 HG

0070024

Hg -.0328 ppb .0000 % -.0328

*** Sample ID: LWHT5C Seq: 80 12:17:25 12 Mar 2010 HG

SOLID

Hg 4.898 ppb .0000 % 4.898

*** Check Standard: 2 Ck2CCV Seq: 81 12:18:31 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.3	5.117	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 82 12:19:42 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0354	.2000	ppb	.0000 %

*** Sample ID: LWGM7 Seq: 83 12:21:13 12 Mar 2010 HG

SOLID

Hg .2347 ppb .0000 % .2347

*** Sample ID: LWGM7S Seq: 84 12:22:24 12 Mar 2010 HG

SOLID

Hg 1.175 ppb .0000 % 1.175

*** Sample ID: LWGM7D Seq: 85 12:23:41 12 Mar 2010 HG

SOLID

Hg 1.169 ppb .0000 % 1.169

*** Sample ID: LWG5C Seq: 86 12:24:49 12 Mar 2010 HG

SOLID

Hg .1247 ppb .0000 % .1247

*** Sample ID: LWG5P Seq: 87 12:25:55 12 Mar 2010 HG

SOLID

Hg .3021 ppb .0000 % .3021

*** Sample ID: LWG47 Seq: 88 12:27:03 12 Mar 2010 HG

SOLID

Hg .0588 ppb .0000 % .0588

*** Sample ID: LWG5K Seq: 89 12:28:11 12 Mar 2010 HG

SOLID

Hg .2728 ppb .0000 % .2728

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWG5G Seq: 90 12:29:46 12 Mar 2010 HG

SOLID

Hg .2240 ppb .0000 % .2240

*** Sample ID: LWG6L Seq: 91 12:30:57 12 Mar 2010 HG

SOLID

Hg .1533 ppb .0000 % .1533

*** Sample ID: LWG6J Seq: 92 12:32:08 12 Mar 2010 HG

SOLID

Hg .0848 ppb .0000 % .0848

*** Check Standard: 2 Ck2CCV Seq: 93 12:33:14 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.2	5.159	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 94 12:34:19 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0360	.2000	ppb	.0000 %

*** Sample ID: LWGNF Seq: 95 12:35:30 12 Mar 2010 HG

SOLID

Hg .4682 ppb .0000 % .4682

*** Sample ID: LWG5X Seq: 96 12:36:37 12 Mar 2010 HG

SOLID

Hg .1292 ppb .0000 % .1292

*** Sample ID: LWG52 Seq: 97 12:37:42 12 Mar 2010 HG

SOLID

Hg .0240 ppb .0000 % .0240

*** Sample ID: LWG6C Seq: 98 12:39:41 12 Mar 2010 HG

SOLID

Hg .0128 ppb .0000 % .0128

*** Sample ID: LWG6F Seq: 99 12:41:01 12 Mar 2010 HG

SOLID

Hg .2041 ppb .0000 % .2041

*** Sample ID: LWG58 Seq: 100 12:42:07 12 Mar 2010 HG

SOLID

Hg .0345 ppb .0000 % .0345

*** Sample ID: LWG5T Seq: 101 12:43:16 12 Mar 2010 HG

SOLID

Hg .0581 ppb .0000 % .0581

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWG6N Seq: 102 12:44:28 12 Mar 2010 HG

SOLID

Hg .1159 ppb .0000 % .1159

*** Sample ID: LWG5J Seq: 103 12:45:35 12 Mar 2010 HG

SOLID

Hg .1962 ppb .0000 % .1962

*** Sample ID: LWG56 Seq: 104 12:46:52 12 Mar 2010 HG

SOLID

Hg .1385 ppb .0000 % .1385

*** Check Standard: 2 Ck2CCV Seq: 105 12:48:00 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.4	5.169	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 106 12:49:07 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0422	.2000	ppb	.0000 %

*** Sample ID: LWG5M Seq: 107 12:50:18 12 Mar 2010 HG

SOLID

Hg .1600 ppb .0000 % .1600

*** Sample ID: LWG54 Seq: 108 12:51:26 12 Mar 2010 HG

SOLID

Hg .2515 ppb .0000 % .2515

*** Check Standard: 2 Ck2CCV Seq: 109 12:53:24 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.3	5.165	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 110 12:54:41 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0232	.2000	ppb	.0000 %

*** Check Standard: 2 Ck2CCV Seq: 111 14:57:48 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.1	5.154	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 112 14:58:54 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0321	.2000	ppb	.0000 %

*** Sample ID: LWAG8L Seq: 113 14:59:58 12 Mar 2010 HG

SOLID

Hg .0482 ppb .0000 % .0482

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: LWGC9L				Seq: 114	15:01:24 12 Mar 2010 HG			
			SOLID					
Hg	.0181	ppb	.0000 %	.0181				
*** Sample ID: LWHT1B				Seq: 115	15:02:29 12 Mar 2010 HG			
			0070022					
Hg	-.0169	ppb	.0000 %	-.0169				
*** Sample ID: LWHT1C				Seq: 116	15:03:43 12 Mar 2010 HG			
			SOLID					
Hg	4.864	ppb	.0000 %	4.864				
*** Sample ID: LWGC0				Seq: 117	15:05:09 12 Mar 2010 HG			
			SOLID					
Hg	.2223	ppb	.0000 %	.2223				
*** Sample ID: LWGC0L				Seq: 118	15:06:24 12 Mar 2010 HG			
			SOLID					
Hg	.0040	ppb	.0000 %	.0040				
*** Sample ID: LWGC0S				Seq: 119	15:07:28 12 Mar 2010 HG			
			SOLID					
Hg	1.169	ppb	.0000 %	1.169				
*** Sample ID: LWGC0D				Seq: 120	15:08:40 12 Mar 2010 HG			
			SOLID					
Hg	1.152	ppb	.0000 %	1.152				
*** Sample ID: LWGC5				Seq: 121	15:09:46 12 Mar 2010 HG			
			SOLID					
Hg	6.783	ppb	.0000 %	6.783				
*** Sample ID: LWGA9				Seq: 122	15:11:02 12 Mar 2010 HG			
			SOLID					
Hg	.1104	ppb	.0000 %	.1104				

*** Check Standard: 2 Ck2CCV		Seq: 123	15:13:00 12 Mar 2010 HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.5	5.173	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB		Seq: 124	15:14:04 12 Mar 2010 HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0418	.2000	ppb	.0000 %

*** Sample ID: LWGC7			Seq: 125	15:15:10 12 Mar 2010 HG				
			SOLID					
Hg	21.03	ppb	.0000 %	21.03				

dilute

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWGA8 Seq: 126 15:16:18 12 Mar 2010 HG

SOLID

Hg .0308 ppb .0000 % .0308

*** Sample ID: LWGC4 Seq: 127 15:17:22 12 Mar 2010 HG

SOLID

Hg 2.646 ppb .0000 % 2.646

*** Sample ID: LWGC6 Seq: 128 15:18:28 12 Mar 2010 HG

SOLID

Hg .0673 ppb .0000 % .0673

*** Sample ID: LWGC2 Seq: 129 15:19:42 12 Mar 2010 HG

SOLID

Hg .0562 ppb .0000 % .0562

*** Sample ID: LWGCX Seq: 130 15:21:13 12 Mar 2010 HG

SOLID

Hg 2.332 ppb .0000 % 2.332

*** Sample ID: LWGCF Seq: 131 15:22:18 12 Mar 2010 HG

SOLID

Hg .0232 ppb .0000 % .0232

*** Sample ID: LWGCA Seq: 132 15:23:24 12 Mar 2010 HG

SOLID

Hg .1064 ppb .0000 % .1064

*** Sample ID: LWGC1 Seq: 133 15:24:35 12 Mar 2010 HG

SOLID

Hg .1645 ppb .0000 % .1645

*** Sample ID: LWGCG Seq: 134 15:25:56 12 Mar 2010 HG

SOLID

Hg .0521 ppb .0000 % .0521

*** Check Standard: 2 Ck2CCV Seq: 135 15:27:01 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.0	5.150	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 136 15:28:19 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0186	.2000	ppb	.0000 %

*** Sample ID: LWGCD Seq: 137 15:29:24 12 Mar 2010 HG

SOLID

Hg .0459 ppb .0000 % .0459

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWGA6 Seq: 138 15:30:31 12 Mar 2010 HG
SOLID
Hg .1015 ppb .0000 % .1015

*** Sample ID: LWGC3 Seq: 139 15:31:41 12 Mar 2010 HG
SOLID
Hg .0407 ppb .0000 % .0407

*** Sample ID: LWGCC Seq: 140 15:32:49 12 Mar 2010 HG
SOLID
Hg .0801 ppb .0000 % .0801

*** Sample ID: LWHT3B Seq: 141 15:33:56 12 Mar 2010 HG
0070023
Hg -.0113 ppb .0000 % -.0113

*** Sample ID: LWHT3C Seq: 142 15:35:00 12 Mar 2010 HG
SOLID
Hg 4.968 ppb .0000 % 4.968

*** Sample ID: LWHF7 Seq: 143 15:36:06 12 Mar 2010 HG
SOLID
Hg .0886 ppb .0000 % .0886

*** Sample ID: LWHF7S Seq: 144 15:37:12 12 Mar 2010 HG
SOLID
Hg 1.126 ppb .0000 % 1.126

*** Sample ID: LWHF7D Seq: 145 15:38:23 12 Mar 2010 HG
SOLID
Hg 1.132 ppb .0000 % 1.132

*** Sample ID: LWHGW Seq: 146 15:39:33 12 Mar 2010 HG
SOLID
Hg .1030 ppb .0000 % .1030

*** Check Standard: 2 Ck2CCV Seq: 147 15:40:39 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.0	5.152	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 148 15:41:44 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0333	.2000	ppb	.0000 %

*** Sample ID: LWHHM Seq: 149 15:42:59 12 Mar 2010 HG
SOLID
Hg .0755 ppb .0000 % .0755

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWHHC Seq: 150 15:44:08 12 Mar 2010 HG
SOLID
Hg .0517 ppb .0000 % .0517

*** Sample ID: LWHHJ Seq: 151 15:45:16 12 Mar 2010 HG
SOLID
Hg .0564 ppb .0000 % .0564

*** Sample ID: LWHHF Seq: 152 15:46:24 12 Mar 2010 HG
SOLID
Hg .0877 ppb .0000 % .0877

*** Sample ID: LWHHV Seq: 153 15:47:28 12 Mar 2010 HG
SOLID
Hg .0441 ppb .0000 % .0441

*** Sample ID: LWHHD Seq: 154 15:48:34 12 Mar 2010 HG
SOLID
Hg .0369 ppb .0000 % .0369

*** Sample ID: LWHG5 Seq: 155 15:49:42 12 Mar 2010 HG
SOLID
Hg .0617 ppb .0000 % .0617

*** Sample ID: LWHHP Seq: 156 15:50:50 12 Mar 2010 HG
SOLID
Hg 1.973 ppb .0000 % 1.973

*** Sample ID: LWHHX Seq: 157 15:51:55 12 Mar 2010 HG
SOLID
Hg .6920 ppb .0000 % .6920

*** Sample ID: LWKEOB Seq: 158 15:53:10 12 Mar 2010 HG
0071018
Hg -.0262 ppb .0000 % -.0262

*** Check Standard: 2 Ck2CCV Seq: 159 15:54:16 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.0	5.099	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 160 15:55:25 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0314	.2000	ppb	.0000 %

*** Sample ID: LWKEOC Seq: 161 15:56:40 12 Mar 2010 HG
SOLID
Hg 5.061 ppb .0000 % 5.061

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWJE1 Seq: 162 15:57:51 12 Mar 2010 HG

SOLID

Hg .0342 ppb .0000 % .0342

*** Sample ID: LWJE1S Seq: 163 15:58:57 12 Mar 2010 HG

SOLID

Hg 1.102 ppb .0000 % 1.102

*** Sample ID: LWJE1D Seq: 164 16:00:23 12 Mar 2010 HG

SOLID

Hg 1.077 ppb .0000 % 1.077

*** Sample ID: LWJF7 Seq: 165 16:01:29 12 Mar 2010 HG

SOLID

Hg .0518 ppb .0000 % .0518

*** Sample ID: LWJF7S Seq: 166 16:02:34 12 Mar 2010 HG

SOLID

Hg 1.104 ppb .0000 % 1.104

*** Sample ID: LWJF7D Seq: 167 16:03:43 12 Mar 2010 HG

SOLID

Hg 1.095 ppb .0000 % 1.095

*** Sample ID: LWJGW Seq: 168 16:04:59 12 Mar 2010 HG

SOLID

Hg .0699 ppb .0000 % .0699

*** Sample ID: LWJL4 Seq: 169 16:06:07 12 Mar 2010 HG

SOLID

Hg .0752 ppb .0000 % .0752

*** Sample ID: LWJG0 Seq: 170 16:07:13 12 Mar 2010 HG

SOLID

Hg .0397 ppb .0000 % .0397

*** Check Standard: 2 Ck2CCV Seq: 171 16:08:19 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.4	5.120	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 172 16:09:27 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0439	.2000	ppb	.0000 %

*** Sample ID: LWJG2 Seq: 173 16:10:52 12 Mar 2010 HG

SOLID

Hg .0640 ppb .0000 % .0640

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWJDF Seq: 174 16:12:07 12 Mar 2010 HG

SOLID

Hg .1092 ppb .0000 % .1092

*** Sample ID: LWJL6 Seq: 175 16:13:13 12 Mar 2010 HG

SOLID

Hg .1096 ppb .0000 % .1096

*** Sample ID: LWJGQ Seq: 176 16:14:19 12 Mar 2010 HG

SOLID

Hg .1527 ppb .0000 % .1527

*** Sample ID: LWJC2 Seq: 177 16:15:46 12 Mar 2010 HG

SOLID

Hg 1.274 ppb .0000 % 1.274

*** Check Standard: 2 Ck2CCV Seq: 178 16:18:28 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.0	5.101	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 179 16:19:47 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0225	.2000	ppb	.0000 %

*** Sample ID: LWJEV Seq: 180 16:20:52 12 Mar 2010 HG

SOLID

Hg .1077 ppb .0000 % .1077

*** Sample ID: LWJDA Seq: 181 16:22:00 12 Mar 2010 HG

SOLID

Hg 1.819 ppb .0000 % 1.819

*** Sample ID: LWJDE Seq: 182 16:23:05 12 Mar 2010 HG

SOLID

Hg 1.406 ppb .0000 % 1.406

*** Sample ID: LWJL0 Seq: 183 16:24:16 12 Mar 2010 HG

SOLID

Hg .0768 ppb .0000 % .0768

*** Sample ID: LWKE2B Seq: 184 16:25:22 12 Mar 2010 HG

0071020

Hg -.0267 ppb .0000 % -.0267

*** Sample ID: LWKE2C Seq: 185 16:26:28 12 Mar 2010 HG

SOLID

Hg 5.040 ppb .0000 % 5.040

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWHLF Seq: 186 16:27:36 12 Mar 2010 HG

SOLID

Hg .0600 ppb .0000 % .0600

*** Sample ID: LWHLFL Seq: 187 16:28:41 12 Mar 2010 HG

SOLID

Hg -.0243 ppb .0000 % -.0243

*** Sample ID: LWHLFS Seq: 188 16:29:48 12 Mar 2010 HG

SOLID

Hg 1.113 ppb .0000 % 1.113

*** Sample ID: LWHLFD Seq: 189 16:30:58 12 Mar 2010 HG

SOLID

Hg 1.126 ppb .0000 % 1.126

*** Check Standard: 2 Ck2CCV Seq: 190 16:32:07 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.4	5.118	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 191 16:33:12 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0514	.2000	ppb	.0000 %

*** Sample ID: LWJ1L Seq: 192 16:34:17 12 Mar 2010 HG

SOLID

Hg .1469 ppb .0000 % .1469

*** Sample ID: LWHLJ Seq: 193 16:35:24 12 Mar 2010 HG

SOLID

Hg .0305 ppb .0000 % .0305

*** Sample ID: LWHK9 Seq: 194 16:36:32 12 Mar 2010 HG

SOLID

Hg .1298 ppb .0000 % .1298

*** Sample ID: LWHLD Seq: 195 16:37:41 12 Mar 2010 HG

SOLID

Hg .1159 ppb .0000 % .1159

*** Sample ID: LWHLK Seq: 196 16:39:06 12 Mar 2010 HG

SOLID

Hg .1194 ppb .0000 % .1194

*** Sample ID: LWJ1K Seq: 197 16:40:24 12 Mar 2010 HG

SOLID

Hg .0420 ppb .0000 % .0420

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LWHLT Seq: 198 16:41:32 12 Mar 2010 HG

SOLID

Hg .0984 ppb .0000 % .0984

*** Sample ID: LWJ1C Seq: 199 16:42:40 12 Mar 2010 HG

SOLID

Hg .0752 ppb .0000 % .0752

*** Sample ID: LWHLH Seq: 200 16:44:00 12 Mar 2010 HG

SOLID

Hg .0589 ppb .0000 % .0589

*** Sample ID: LWHLR Seq: 201 16:45:12 12 Mar 2010 HG

SOLID

Hg .1354 ppb .0000 % .1354

*** Check Standard: 2 Ck2CCV Seq: 202 16:46:18 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.0	5.150	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 203 16:48:23 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0076	.2000	ppb	.0000 %

*** Sample ID: LWHLE Seq: 204 16:49:38 12 Mar 2010 HG

SOLID

Hg .0317 ppb .0000 % .0317

*** Sample ID: LWJ1M Seq: 205 16:50:45 12 Mar 2010 HG

SOLID

Hg .0257 ppb .0000 % .0257

*** Sample ID: LWJ1N Seq: 206 16:51:52 12 Mar 2010 HG

SOLID

Hg .0822 ppb .0000 % .0822

*** Sample ID: LWGDF/5 Seq: 207 16:53:08 12 Mar 2010 HG

SOLID

Hg 2.300 ppb .0000 % 2.300

*** Sample ID: LWGC7/5 Seq: 208 16:54:27 12 Mar 2010 HG

SOLID

Hg 4.293 ppb .0000 % 4.293

*** Check Standard: 2 Ck2CCV Seq: 209 16:55:47 12 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.5	5.125	5.000	ppb	.0000 %

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 1 Ck1CCB Seq: 210 16:56:52 12 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0489	.2000	ppb	.0000 %

STD2/CCV	STD 0B97	ICSA	STD 0B51	CRI STD 0A30
STD3	STD 0B59	ICSAB	STD 0B99	
STD4	STD 0B160	ICV	STD 0B61	DIL BLK 0MR121

QSMCCI 0A40

Test America North Canton ICP/MS Data Review Checklist

Run/Project Information:

Run Date: 3-15-10 Analyst: kcc Instrument: I8

Prep Batches Run: _____ See Run Log _____

Circle Methods used: 6020/ 200.8: CORP-MT-0001NC

Review Items

	Yes	No	N/A	2nd Level
A. Tune/Daily performance				
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
2. Performance check within recommended specfications? (Be>8000cps) (In >300,000 cps) (Pb >100,000 cps) (Co>100000cps) (Mg>10000cps) (CeO/Ce ≤ 0.03) (Ba++/Ba+ ≤ 0.03)(Background < 30cps @ Mass 220) CCT Performance Check (In>75000cps) (Se<20 cps)	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? Correlation coefficient ≥ .995 ?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? *(ICV: = 90 – 110%) (CCV: 90 – 110%,* 200.8 = 85 -115% *)*	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%)?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed ?	✓			✓
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time ?	✓			✓
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits ?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits ?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits ?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
E. Other				
1. Are all nonconformances documented appropriately ?	✓			✓
2. Current IDL/LR data on file ?	✓			✓
3. Calculations checked for error ?	✓			✓
4. Transcriptions checked for error ?	✓			✓
5. All client/project specific requirements met ?	✓			✓
6. Date/time of analysis verified as correct ?	✓			

Level I Analyst: Karen L Counts Date: 3-16-10 Time: 11:32 - 15:43

Level I Analyst: _____ Date: _____ Time: _____

Level II Reviewer: [signature] Date: 3-16-10 Time: 11:32-15:43

Level II Reviewer: _____ Date: _____ Time: _____

Comments: Lithium used for KCaMn

Performance Report

Sample details
Acquired at : 3/15/2010 08:00:20
Report name : CCT MODE PERF REPORT [5/14/2008 11:21:44]

Tune conditions

Major	
Extraction	-117.6
Lens 1	-1200
Lens 2	-80.0
Focus	0.6
D1	-51.8
D2	-140
Pole Bias	-14.0
Hexapole Bias	-17.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	60
Vertical	400
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	125
High resolution	125
Analogue Detector	1529
PC Detector	3176

Add. Gases	
He_H2	2.31
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	78Se	115In
Dwell (mSecs)		500.0	10.0
Limits	%RSD	-	5.0%
	Countrate	<20	>75000
1	08:00:20	12.267	111451.40
2	08:00:38	12.667	112028.58
3	08:00:55	11.667	111300.40
4	08:01:13	12.800	112874.26
5	08:01:30	10.133	110649.42
x		11.907	111660.81
σ		1.08	837.32
%RSD		9.111	0.750

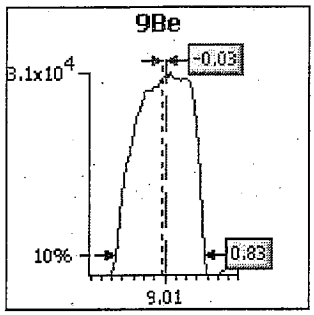
Result : The performance report passed.

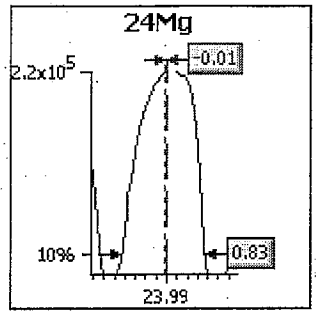
Performance Report

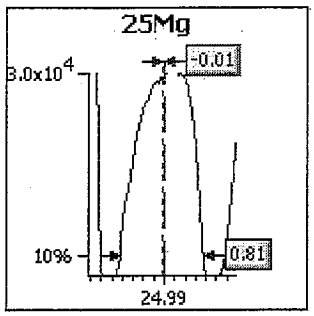
Sample details
Acquired at : 3/15/2010 07:49:48
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

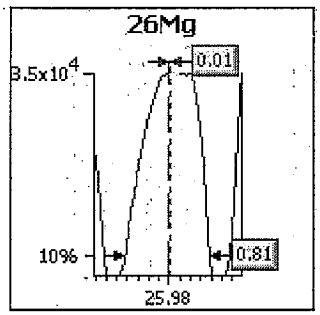
Mass Calibration verification

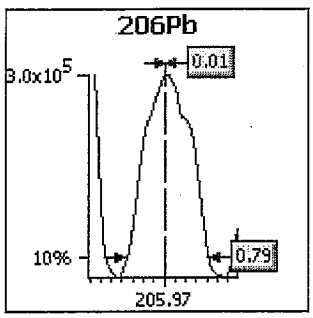
Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 10% of the peak maximum

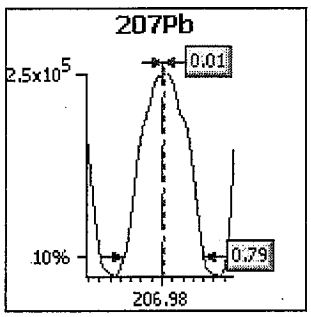


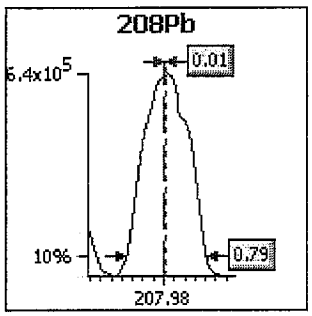












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.83	-0.03
24Mg	0.85	0.65	0.10	0.83	-0.01
25Mg	0.85	0.65	0.10	0.81	-0.01
26Mg	0.85	0.65	0.10	0.81	0.01
206Pb	0.85	0.65	0.10	0.79	0.01
207Pb	0.85	0.65	0.10	0.79	0.01
208Pb	0.85	0.65	0.10	0.79	0.01

Sample details
Acquired at : 3/15/2010 07:49:48
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Tune conditions

Major	
Extraction	-121.6
Lens 1	-1216
Lens 2	-80.0
Focus	12.2
D1	-47.8
D2	-140
Pole Bias	0.1
Hexapole Bias	-4.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	60
Vertical	400
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	125
High resolution	125
Analogue Detector	1529
PC Detector	3176

Add. Gases	
He_H2	0.00
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	137Ba++	101Bkg	115In
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0	10.0
Limits	%RSD	-	5.0%	-	5.0%	-	5.0%	-	-	5.0%
	Countrate	-	>8000	>10000	>10000	>10000	>100000	-	-	≥300000
1	07:50:22	0.000	30791.751	221444.76	29349.152	35464.358	425212.52	2344.609	0.667	1036108.1
2	07:50:40	0.333	30885.257	220988.77	30374.319	36219.312	421093.22	2239.039	4.333	1033507.1
3	07:50:58	0.000	31172.458	222225.04	29946.880	35641.402	419151.86	2186.810	1.000	1031650.6
4	07:51:15	0.333	30290.834	220046.42	30384.338	36219.312	421390.60	2256.819	2.333	1026475.2
5	07:51:33	0.000	30972.085	219229.09	29793.272	35674.807	421742.67	2225.704	2.333	1036274.6
x		0.133	30822.477	220786.81	29969.592	35843.838	421718.17	2250.596	2.133	1032803.1
σ		0.18	328.79	1174.40	433.70	351.97	2196.30	58.52	1.45	4026.17
%RSD		136.931	1.067	0.532	1.447	0.982	0.521	2.600	67.748	0.390

Run	Time	137Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	-	-	-	-	-	5.0%	-
	Countrate	-	-	-	>100000	>100000	>100000	<30
1	07:50:22	116885.10	961246.20	26496.601	313511.20	260858.90	637576.22	0.000
2	07:50:40	116932.09	967750.19	25492.815	313473.84	257053.80	639380.06	0.000
3	07:50:58	114203.27	960332.38	26042.553	313164.78	258969.78	638327.51	0.000
4	07:51:15	116099.64	961793.10	25353.714	312390.45	255554.33	644079.23	0.000
5	07:51:33	116196.98	959743.19	25747.651	310933.59	257290.74	632072.43	0.000
x		116063.42	962173.01	25826.667	312694.77	257945.51	638287.09	0.000
σ		1107.82	3217.15	457.38	1082.68	2029.69	4297.46	0.00
%RSD		0.954	0.334	1.771	0.346	0.787	0.673	0.000

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0300
1	07:50:22	0.020	0.028
2	07:50:40	0.019	0.026
3	07:50:58	0.019	0.027
4	07:51:15	0.019	0.026
5	07:51:33	0.019	0.027
x		0.0194	0.0268
σ		0.00	0.00
%RSD		2.0342	1.9359

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA NORTH CANTON_QSM 3.0.tet
Created By User	martin.nash
Analyte Database	TA NORTH CANTON MULTIMODE.tea
Creation Timestamp	10/10/2007 09:08:48
Last Edited By	Upload
Last Edit Timestamp	3/16/2010 05:17:35
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

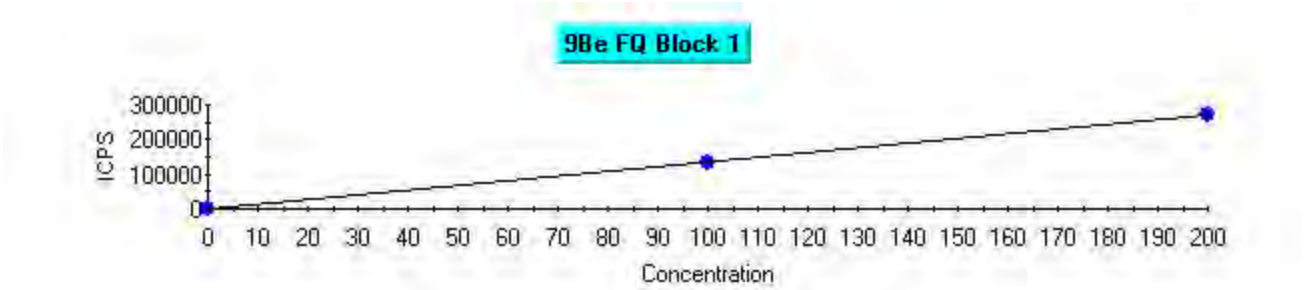
Column headings
- No flag
- Semi Quant
- Standard Addition
- Multi Element

Result cells
- Internal Standard
- Excluded
- QC Warning
- QC Failure

Transient TRA only:
- Peak Not Found
- Manually Edited
- Merged Peak

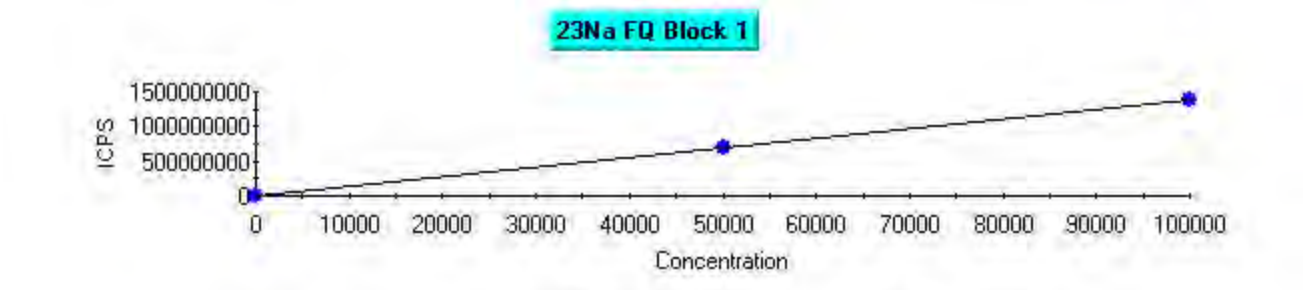
Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Fully Quant Calibration



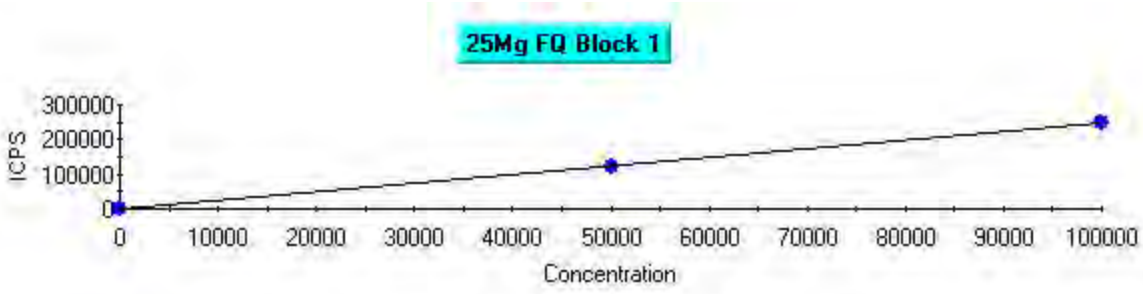
Intercept CPS=51.453749 Intercept Conc=0.038039
Sensitivity=1352.644281 Correlation Coeff=0.999977

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	51.45	0.00
STD2	100.000	99.051	0.949	134031.97	0.95
STD3	200.000	200.475	0.475	271222.27	0.24



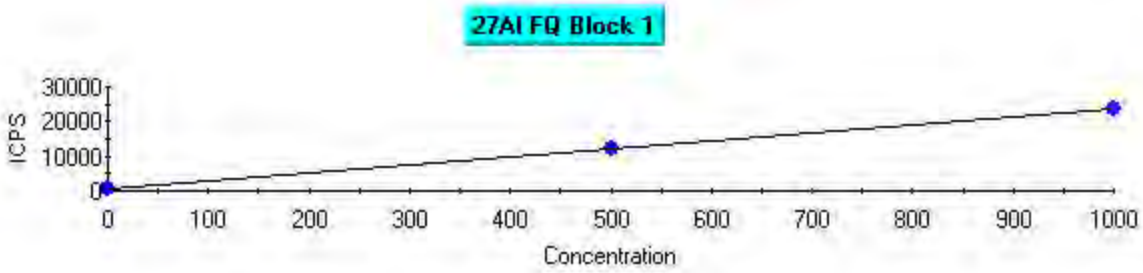
Intercept CPS=239385.039516 Intercept Conc=17.380081
Sensitivity=13773.528757 Correlation Coeff=0.999963

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	239385.04	0.00
STD2	50000.000	49398.215	601.785	680627119.58	1.20
STD3	100000.000	100300.893	300.893	1381736612.42	0.30



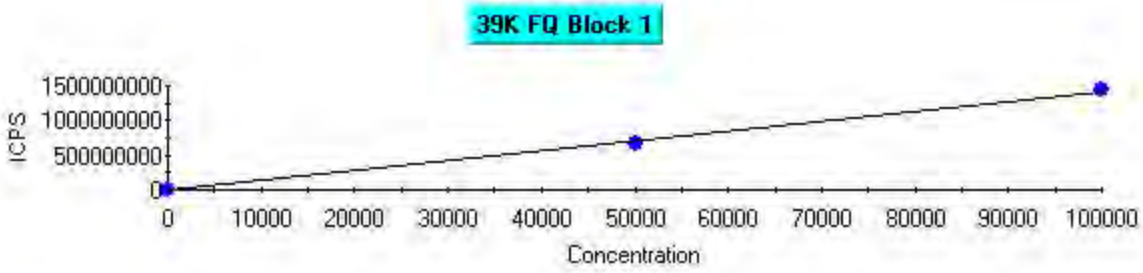
Intercept CPS=21.120944 Intercept Conc=8.597110
Sensitivity=2.456749 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	21.12	0.00
STD2	50000.000	50239.986	239.986	123448.16	0.48
STD3	100000.000	99880.007	119.993	245401.24	0.12



Intercept CPS=341.036573 Intercept Conc=14.452693
Sensitivity=23.596750 Correlation Coeff=0.999945

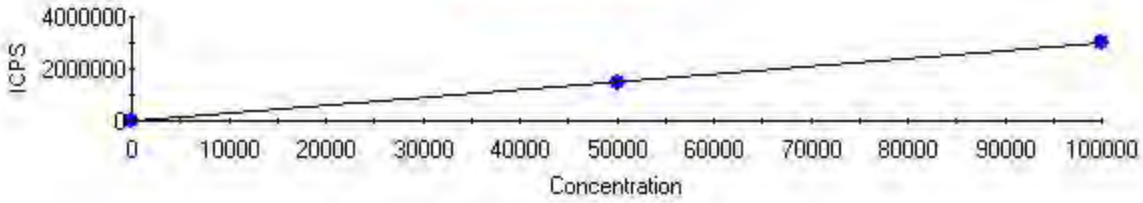
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	341.04	0.00
STD2	500.000	507.218	7.218	12309.73	1.44
STD3	1000.000	996.391	3.609	23852.63	0.36



Intercept CPS=604314.099994 Intercept Conc=42.573391
Sensitivity=14194.643436 Correlation Coeff=0.998620

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	604314.10	0.00
STD2	50000.000	46289.163	3710.837	657662478.98	7.42
STD3	100000.000	101855.418	1855.418	1446405661.16	1.86

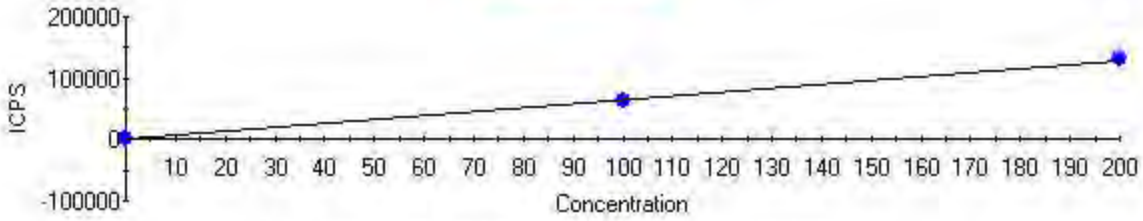
43Ca FQ Block 1



Intercept CPS=1675.763644 Intercept Conc=55.625544
Sensitivity=30.125794 Correlation Coeff=0.999754

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1675.76	0.00
STD2	50000.000	48450.273	1549.727	1461278.68	3.10
STD3	100000.000	100774.864	774.864	3037598.51	0.77

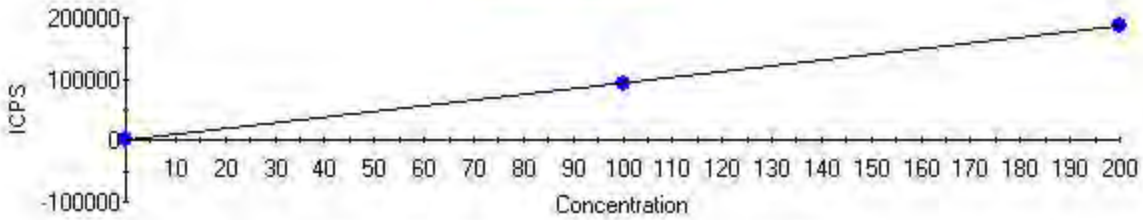
51V FQ Block 1



Intercept CPS=-157.544475 Intercept Conc=-0.242809
Sensitivity=648.842243 Correlation Coeff=0.999964

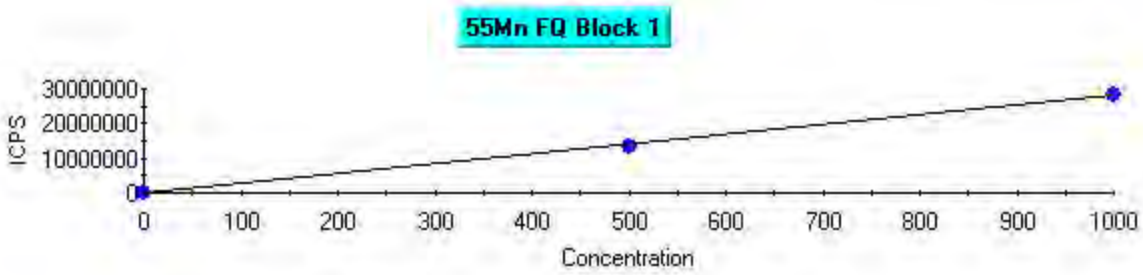
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-157.54	0.00
STD2	100.000	98.827	1.173	63965.86	1.17
STD3	200.000	200.586	0.586	129991.31	0.29

52Cr FQ Block 1



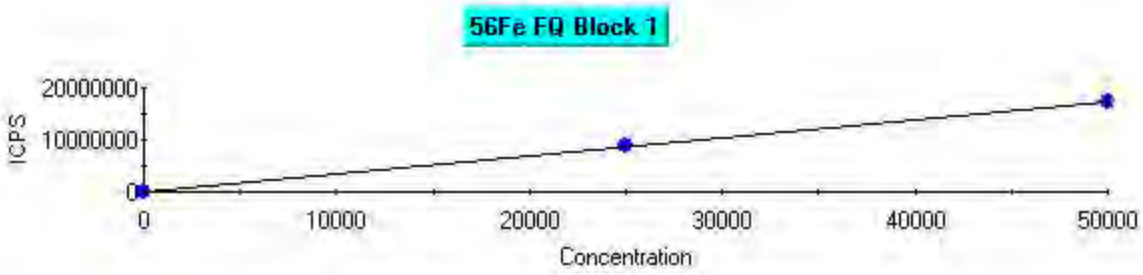
Intercept CPS=-264.368599 Intercept Conc=-0.282320
Sensitivity=936.415934 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	-264.37	0.00
STD2	100.000	99.645	0.355	93045.21	0.35
STD3	200.000	200.177	0.177	187184.83	0.09



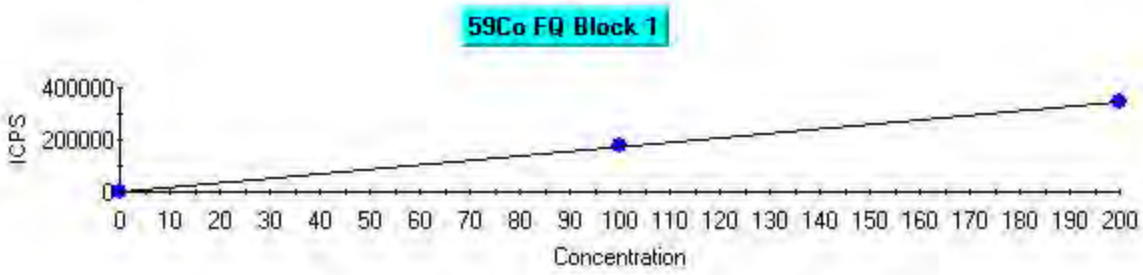
Intercept CPS=4506.592020 Intercept Conc=0.161045
Sensitivity=27983.439203 Correlation Coeff=0.999165

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	4506.59	0.00
STD2	500.000	471.262	28.738	13192042.41	5.75
STD3	1000.000	1014.369	14.369	28390037.69	1.44



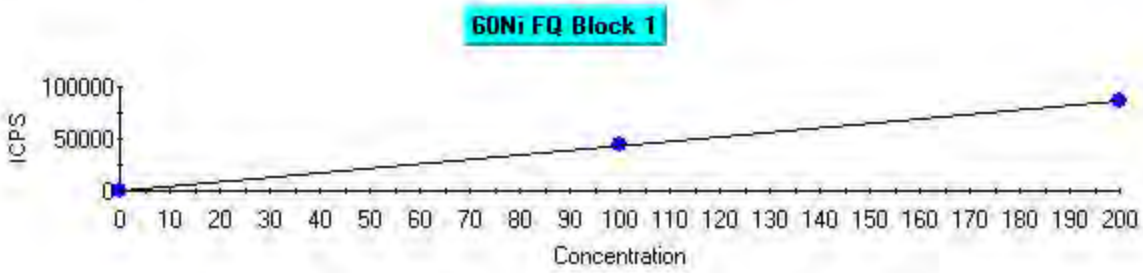
Intercept CPS=2701.972328 Intercept Conc=7.764533
Sensitivity=347.989031 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	2701.97	0.00
STD2	25000.000	24875.736	124.264	8659185.31	0.50
STD3	50000.000	50062.132	62.132	17423774.73	0.12



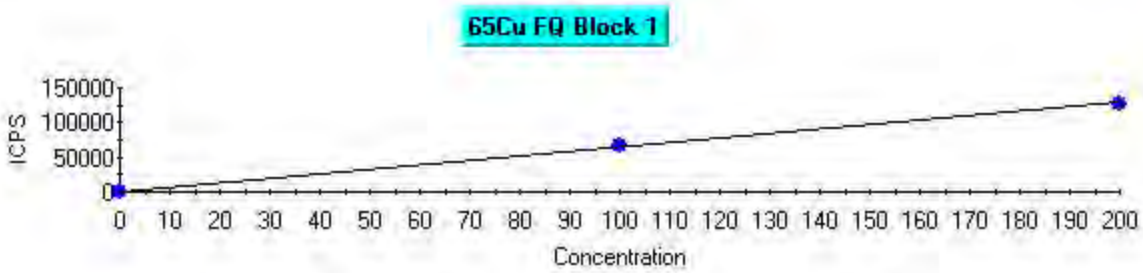
Intercept CPS=62.284803 Intercept Conc=0.036083
Sensitivity=1726.419586 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	62.29	0.00
STD2	100.000	100.361	0.361	173327.95	0.36
STD3	200.000	199.819	0.181	345034.36	0.09



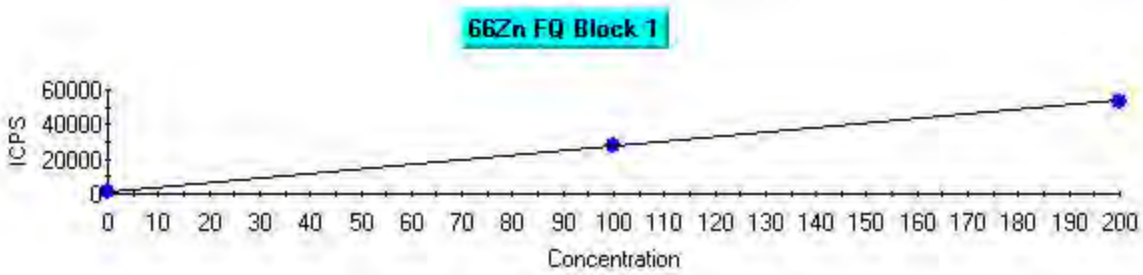
Intercept CPS=58.899498 Intercept Conc=0.136509
Sensitivity=431.470139 Correlation Coeff=0.999975

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	58.90	0.00
STD2	100.000	100.982	0.982	43629.68	0.98
STD3	200.000	199.509	0.491	86141.04	0.25



Intercept CPS=62.155145 Intercept Conc=0.096571
Sensitivity=643.619699 Correlation Coeff=0.999797

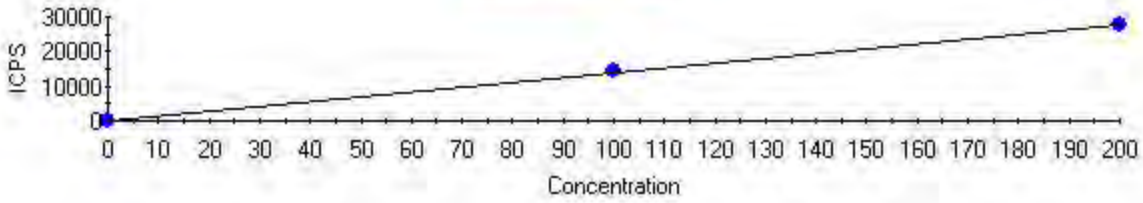
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	62.16	0.00
STD2	100.000	102.772	2.772	66207.94	2.77
STD3	200.000	198.614	1.386	127894.19	0.69



Intercept CPS=1208.894386 Intercept Conc=4.598583
Sensitivity=262.884089 Correlation Coeff=0.999802

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1208.89	0.00
STD2	100.000	102.741	2.741	28217.81	2.74
STD3	200.000	198.630	1.370	53425.46	0.69

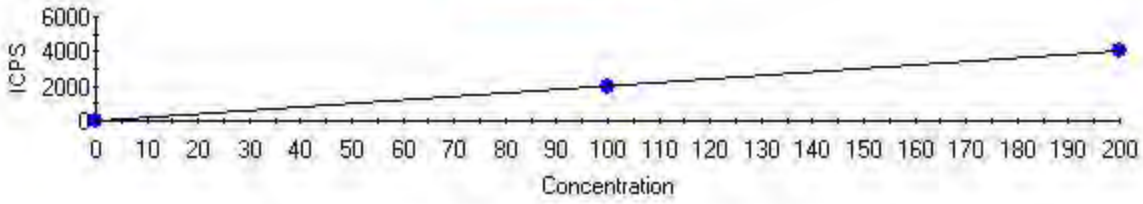
75As FQ Block 1



Intercept CPS=127.534174 Intercept Conc=0.916197
Sensitivity=139.199464 Correlation Coeff=0.999969

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	127.53	0.00
STD2	100.000	101.080	1.080	14197.82	1.08
STD3	200.000	199.460	0.540	27892.26	0.27

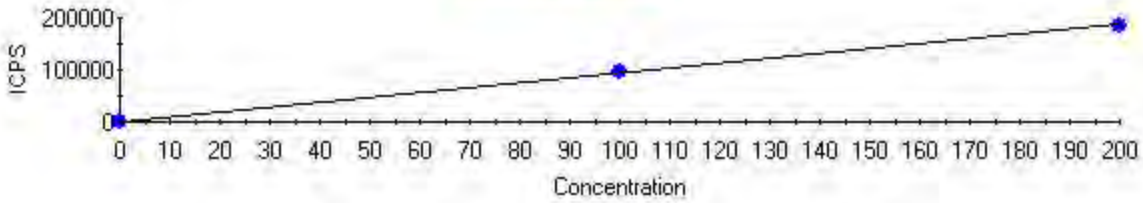
78Se FQ Block 1



Intercept CPS=5.407299 Intercept Conc=0.269680
Sensitivity=20.050812 Correlation Coeff=0.999961

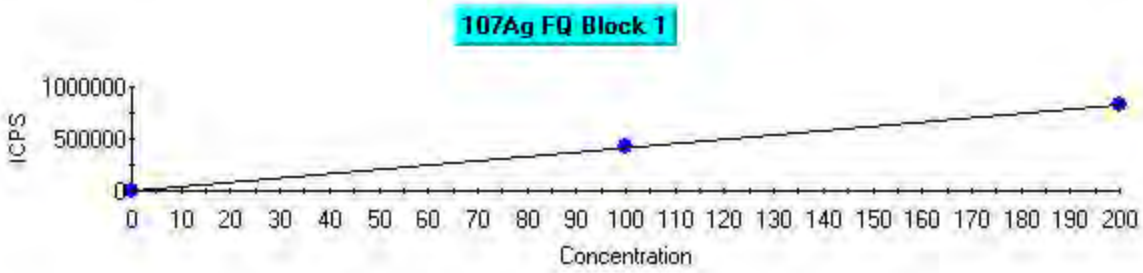
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	5.41	0.00
STD2	100.000	98.767	1.233	1985.77	1.23
STD3	200.000	200.616	0.616	4027.93	0.31

95Mo FQ Block 1



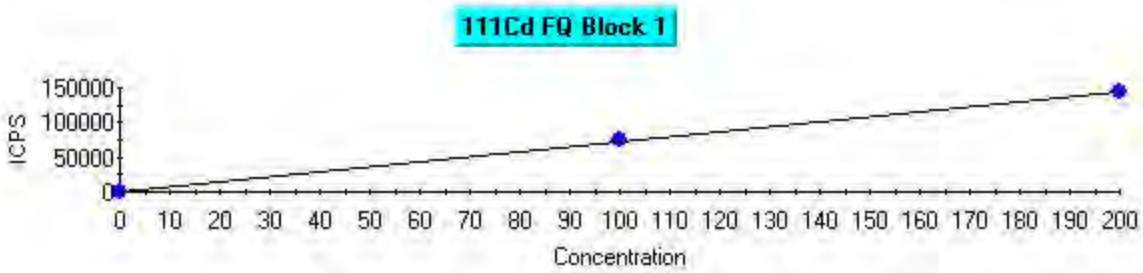
Intercept CPS=74.541604 Intercept Conc=0.079601
Sensitivity=936.436616 Correlation Coeff=0.999536

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	74.54	0.00
STD2	100.000	104.180	4.180	97632.30	4.18
STD4	200.000	197.910	2.090	185404.81	1.04



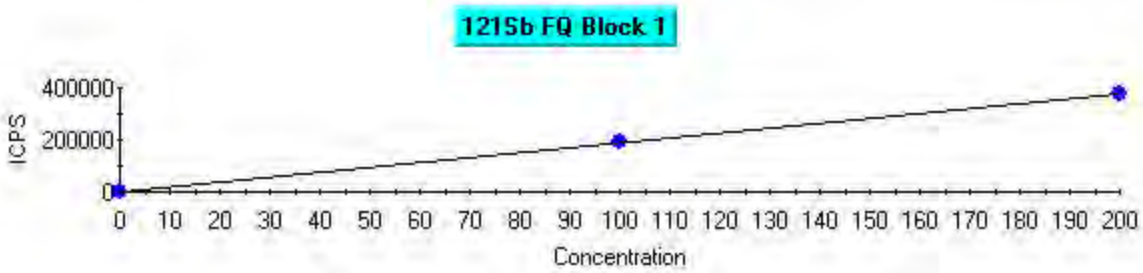
Intercept CPS=76.631624 Intercept Conc=0.018498
Sensitivity=4142.679043 Correlation Coeff=0.999870

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	76.63	0.00
STD2	100.000	102.220	2.220	423540.88	2.22
STD3	200.000	198.890	1.110	824014.27	0.55



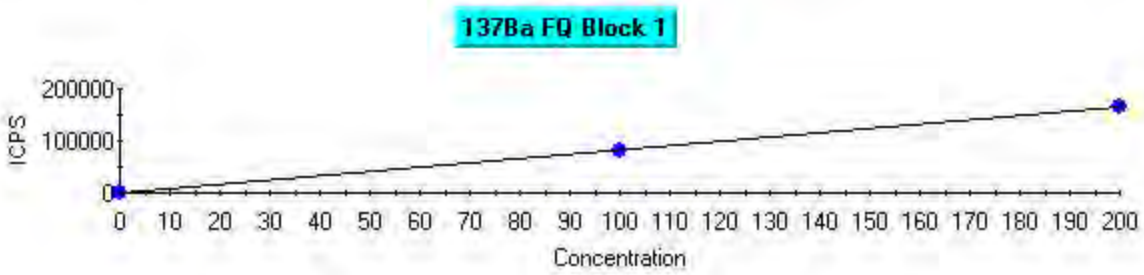
Intercept CPS=15.516601 Intercept Conc=0.021404
Sensitivity=724.929097 Correlation Coeff=0.999912

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	15.52	0.00
STD2	100.000	101.833	1.833	73837.46	1.83
STD3	200.000	199.083	0.917	144336.82	0.46



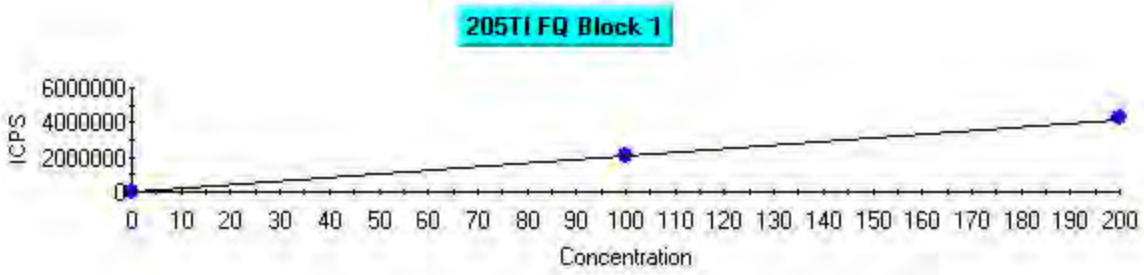
Intercept CPS=146.594171 Intercept Conc=0.077091
Sensitivity=1901.562655 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	146.59	0.00
STD2	100.000	99.709	0.291	189749.06	0.29
STD4	200.000	200.146	0.146	380736.03	0.07



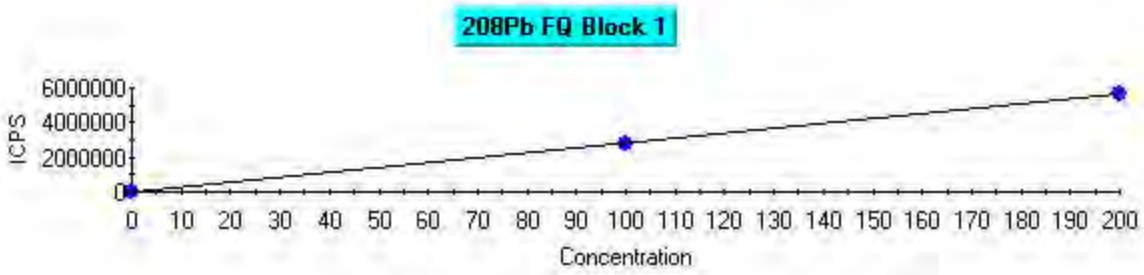
Intercept CPS=96.648117 Intercept Conc=0.116860
Sensitivity=827.039006 Correlation Coeff=0.999931

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	96.65	0.00
STD2	100.000	98.371	1.629	81453.68	1.63
STD3	200.000	200.814	0.814	166177.88	0.41



Intercept CPS=2652.597943 Intercept Conc=0.126544
Sensitivity=20961.925924 Correlation Coeff=0.999912

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	2652.60	0.00
STD2	100.000	98.151	1.849	2060084.12	1.85
STD3	200.000	200.925	0.925	4214418.32	0.46



Intercept CPS=2407.611354 Intercept Conc=0.086015
Sensitivity=27990.480907 Correlation Coeff=0.999971

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	2407.61	0.00
STD2	100.000	98.935	1.065	2771653.63	1.06
STD3	200.000	200.532	0.532	5615404.83	0.27

Dilution Corrected Concentrations

STD1 3/15/2010 11:32:57

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.000%	-0.000	0.000
%RSD		0.528	0.000	0.000
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		0.000	0.000	T 0.000
%RSD		0.000	0.000	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		100.000%	0.000	-0.000
%RSD		0.208	0.000	0.000
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		-0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.000	100.000%	0.000
%RSD		0.000	1.001	0.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.000	0.000	-0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.000	-0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.000	100.000%	-0.000
%RSD		0.000	0.621	0.000
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.000	-0.000	100.000%
%RSD		0.000	0.000	0.326

STD2 3/15/2010 11:36:59

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.176%	99.050	T 49400.000
%RSD		1.825	2.195	T 0.050
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		50240.000	507.200	0.000
%RSD		0.318	2.286	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 46290.000	48450.000	T 0.000
%RSD		T 1.527	1.129	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.816%	98.830	99.650
%RSD		1.045	1.007	1.399
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.738	T 471.300	T 24880.000
%RSD		13.040	T 1.171	T 1.314
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.400	101.000	102.800
%RSD		1.230	1.183	0.473
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.700	97.360%	101.100
%RSD		1.224	0.766	0.905
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.318	98.770	104.200
%RSD		7.047	3.254	0.732
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	102.200	59.730
%RSD		0.000	0.912	66.010
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.800	98.055%	99.710
%RSD		1.778	1.239	1.750
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.370	0.000	0.000
%RSD		1.011	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.150	98.940	90.173%
%RSD		0.328	0.804	0.705

STD3 3/15/2010 11:43:39

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		95.881%	M 200.500	TM 100300.000
%RSD		0.249	M 1.135	TM 0.723
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 99880.000	M 996.400	0.000
%RSD		M 0.780	M 0.753	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		TM 101900.000	M 100800.000	T 0.000
%RSD		TM 0.498	M 0.828	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		103.359%	M 200.600	M 200.200
%RSD		1.118	M 0.502	M 0.577
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.405	TM 1014.000	TM 50060.000
%RSD		8.525	TM 1.265	TM 0.409
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		M 199.800	199.500	M 198.600
%RSD		M 1.136	0.196	M 0.894
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 198.600	100.367%	M 199.500
%RSD		M 0.869	0.817	M 0.811
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.425	M 200.600	0.105
%RSD		2.217	M 2.251	21.010
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	198.900	130.100
%RSD		0.000	0.672	38.240
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		M 199.100	100.439%	0.094
%RSD		M 0.987	0.523	19.750
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 200.800	0.000	0.000
%RSD		M 0.876	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		TM 200.900	M 200.500	87.285%
%RSD		TM 0.520	M 0.610	0.958

STD4 3/15/2010 11:50:22

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		102.762%	0.105	51.840
%RSD		0.816	8.432	0.697
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		43.790	0.454	0.000
%RSD		9.621	243.600	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		49.750	40.860	T 0.000
%RSD		1.768	5.939	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.700%	0.147	0.067
%RSD		1.651	62.420	29.120
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.310	0.512	27.170
%RSD		30.700	0.804	10.140
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.165	0.198	0.446
%RSD		15.050	25.060	8.064
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-2.978	106.249%	0.118
%RSD		2.310	1.586	48.760
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.070	-0.038	M 197.900
%RSD		49.620	349.600	M 1.044
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.107	4.989
%RSD		0.000	12.590	32.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.121	103.486%	M 200.100
%RSD		31.700	0.684	M 1.750
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.069	0.000	0.000
%RSD		53.320	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.307	0.146	102.395%
%RSD		8.078	7.072	0.323

ICV 3/15/2010 11:54:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		98.516%	101.482%	T 103.328%
%RSD		0.906	1.492	T 0.766
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		102.703%	101.033%	0.000
%RSD		0.271	0.653	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 94.831%	98.846%	T 0.000
%RSD		T 0.853	1.474	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		100.023%	102.630%	103.931%
%RSD		0.445	0.828	0.830
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.805	T 96.349%	T 101.994%
%RSD		23.100	T 1.158	T 2.061
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		103.609%	104.427%	105.804%
%RSD		0.409	1.981	2.072
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.103%	98.059%	101.065%
%RSD		1.950	0.873	1.080
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.104	100.226%	103.992%
%RSD		55.750	0.525	0.908
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	107.631%	78.220
%RSD		0.000	0.975	54.840
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		104.608%	98.935%	103.064%
%RSD		1.165	0.896	0.849
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.798%	0.000	0.000
%RSD		0.664	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		100.835%	100.652%	91.594%
%RSD		0.953	0.286	0.630

ICB 3/15/2010 12:01:40 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		101.850%	0.013	7.939
%RSD		2.106	53.800	4.472
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		0.429	-0.121	0.000
%RSD		482.400	1200.000	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		7.403	12.890	T 0.000
%RSD		9.783	31.950	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		100.221%	0.225	0.003
%RSD		0.300	44.010	131.300
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.304	0.063	0.929
%RSD		42.630	13.690	17.070
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.005	-0.021	0.020
%RSD		159.700	124.000	74.880
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.089	101.115%	0.005
%RSD		295.300	1.117	466.800
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.001	-0.074	0.021
%RSD		1321.000	96.490	57.390
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.001	0.632
%RSD		0.000	888.200	69.910
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.003	100.046%	0.013
%RSD		313.400	0.551	66.920
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.012	0.000	0.000
%RSD		91.500	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.137	0.012	100.023%
%RSD		9.790	38.700	1.088

CRI 3/15/2010 12:06:13 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		101.178%	102.596%	T 100.771%
%RSD		1.184	3.482	T 0.393
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.808%	97.178%	0.000
%RSD		0.863	2.508	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 87.400%	92.944%	T 0.000
%RSD		T 1.657	0.298	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		98.153%	104.397%	101.312%
%RSD		0.552	5.037	2.532
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.013	105.224%	125.103%
%RSD		610.400	2.004	1.857
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		108.402%	107.453%	115.392%
%RSD		3.746	3.767	1.136
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		71.770%	96.518%	103.318%
%RSD		6.865	1.029	10.080
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.123	93.962%	106.017%
%RSD		35.910	11.370	2.546
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	112.978%	-0.776
%RSD		0.000	2.810	279.600
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.695%	98.730%	105.537%
%RSD		14.760	0.565	2.001
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		93.361%	0.000	0.000
%RSD		8.675	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		100.577%	100.282%	98.284%
%RSD		1.491	2.832	0.349

CRIQ 3/15/2010 12:10:50 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.822%	99.038%	T 98.544%
%RSD		3.388	1.537	T 1.013
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		107.092%	88.279%	0.000
%RSD		2.288	6.268	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 85.251%	91.408%	T 0.000
%RSD		T 2.276	2.762	T 0.000
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		95.349%	103.327%	98.723%
%RSD		0.860	6.478	2.224
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.121	89.092%	107.287%
%RSD		190.600	2.764	1.077
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		106.096%	115.615%	116.937%
%RSD		1.000	5.168	3.656
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		97.807%	94.319%	101.527%
%RSD		0.799	0.955	3.064
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.130	108.419%	100.553%
%RSD		19.710	9.398	3.126
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	106.053%	1.481
%RSD		0.000	3.160	160.800
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		106.641%	96.258%	103.461%
%RSD		2.044	0.358	1.024
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		95.440%	0.000	0.000
%RSD		2.573	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		91.664%	95.790%	96.559%
%RSD		0.291	1.539	0.290

ICSA 3/15/2010 12:15:26 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.845%	-0.001	T 53770.000
%RSD		1.564	189.300	T 1.672
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		53210.000	M 50670.000	0.000
%RSD		0.579	M 1.236	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 46360.000	49800.000	T 0.000
%RSD		T 2.221	1.136	T 0.000
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		85.040%	0.130	0.458
%RSD		2.255	62.660	2.703
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.410	0.936	TM 51530.000
%RSD		6.093	1.174	TM 0.357
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.023	0.361	0.167
%RSD		51.450	30.950	16.180
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		-2.616	87.031%	0.016
%RSD		4.424	1.663	210.500
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.139	-0.126	M 1041.000
%RSD		22.720	15.780	M 0.959
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.015	33.920
%RSD		0.000	43.700	11.500
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.029	87.318%	0.129
%RSD		69.610	1.588	7.506
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.643	0.000	0.000
%RSD		11.650	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.002	0.102	84.870%
%RSD		113.900	3.314	1.799

ICSAB 3/15/2010 12:20:03 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.935%	97.766%	T 103.343%
%RSD		2.533	2.037	T 0.602
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		106.279%	M 102.336%	0.000
%RSD		0.941	M 0.700	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 93.078%	99.055%	T 0.000
%RSD		T 2.310	1.920	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.868%	101.145%	101.461%
%RSD		0.633	0.414	0.246
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.658	T 95.578%	TM 102.940%
%RSD		21.700	T 2.244	TM 1.453
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.398%	101.129%	98.723%
%RSD		0.678	1.483	0.576
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		99.729%	95.307%	95.398%
%RSD		1.311	0.710	0.767
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.257	96.273%	M 1145.000
%RSD		39.090	0.363	M 0.841
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	103.042%	53.150
%RSD		0.000	0.477	97.110
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		102.483%	94.210%	101.182%
%RSD		0.777	0.872	0.764
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.180%	0.000	0.000
%RSD		0.692	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		101.251%	101.305%	90.351%
%RSD		0.207	0.287	1.043

CCV 3/15/2010 12:26:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		101.105%	96.400%	T 100.193%
%RSD		2.147	2.191	T 1.452
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		101.301%	99.835%	0.000
%RSD		0.955	2.989	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 91.341%	95.077%	T 0.000
%RSD		T 2.495	1.363	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.902%	98.455%	99.422%
%RSD		1.154	1.272	0.746
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.797	T 92.705%	T 99.199%
%RSD		10.170	T 1.910	T 0.676
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.440%	100.744%	102.979%
%RSD		0.850	0.513	1.014
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		104.613%	96.660%	98.816%
%RSD		1.482	2.328	1.007
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.346	96.647%	104.951%
%RSD		13.050	2.600	0.888
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	103.295%	121.200
%RSD		0.000	0.592	31.740
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		102.875%	97.814%	100.734%
%RSD		0.610	1.265	0.818
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		96.154%	0.000	0.000
%RSD		0.633	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.404%	99.425%	93.506%
%RSD		0.315	0.285	0.911

CCB 3/15/2010 12:33:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		103.164%	0.021	15.080
%RSD		1.118	35.870	3.356
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		6.523	0.952	0.000
%RSD		51.450	33.900	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		12.290	17.500	T0.000
%RSD		7.745	11.380	T0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		98.401%	-0.022	0.031
%RSD		2.191	853.300	63.520
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.116	0.105	3.825
%RSD		160.600	10.060	16.420
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.015	-0.020	0.020
%RSD		58.680	192.700	165.600
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.578	99.467%	-0.027
%RSD		20.760	1.298	104.100
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.006	-0.046	0.073
%RSD		201.900	232.700	20.090
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.013	0.377
%RSD		0.000	53.200	0.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.012	99.562%	0.032
%RSD		114.500	0.607	47.020
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.010	0.000	0.000
%RSD		286.100	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.169	0.017	102.399%
%RSD		8.660	20.690	0.125

CCV 3/15/2010 14:42:33 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		103.732%	92.106%	T 99.293%
%RSD		1.572	0.809	T 0.691
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		105.428%	99.378%	0.000
%RSD		0.540	1.609	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 90.560%	94.307%	T 0.000
%RSD		T 0.020	0.325	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		100.872%	100.095%	101.860%
%RSD		1.422	1.150	0.617
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.434	T 92.664%	T 102.769%
%RSD		13.630	T 1.321	T 1.555
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		103.150%	104.801%	106.756%
%RSD		0.810	1.555	1.442
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		106.216%	97.846%	99.392%
%RSD		1.454	1.101	0.501
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.188	96.035%	107.246%
%RSD		46.780	1.690	0.718
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	107.162%	87.230
%RSD		0.000	0.908	67.290
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		104.105%	98.445%	100.672%
%RSD		1.525	0.501	1.735
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		96.094%	0.000	0.000
%RSD		1.586	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.502%	99.736%	97.737%
%RSD		0.861	0.405	1.226

CCB 3/15/2010 14:49:18 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		107.921%	0.010	36.820
%RSD		1.244	19.140	1.318
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		9.856	-0.492	0.000
%RSD		11.720	132.500	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		5.069	16.290	T 0.000
%RSD		8.143	7.943	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.902%	0.133	0.019
%RSD		0.957	37.680	117.900
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.306	0.126	5.151
%RSD		21.890	11.420	14.070
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.006	-0.002	0.011
%RSD		292.500	782.900	113.800
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.218	103.086%	-0.065
%RSD		68.110	0.872	82.030
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.022	-0.039	-0.008
%RSD		127.800	275.100	151.300
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.013	0.377
%RSD		0.000	48.970	0.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.007	101.905%	-0.006
%RSD		35.310	0.984	192.900
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.006	0.000	0.000
%RSD		344.300	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.197	0.005	109.237%
%RSD		13.780	17.670	0.337

LWAX6B 3/15/2010 14:53:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		103.016%	-0.020	38.580
%RSD		0.625	11.260	0.187
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		21.990	7.440	0.000
%RSD		29.390	2.674	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		13.140	104.900	T 0.000
%RSD		6.473	2.632	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		97.651%	-0.101	0.538
%RSD		0.937	109.000	1.817
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.226	0.347	31.180
%RSD		11.700	2.660	3.686
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		-0.024	0.301	0.498
%RSD		8.196	9.932	7.126
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		1.716	97.578%	-0.031
%RSD		14.430	0.918	181.400
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.190	-0.054	0.035
%RSD		12.620	270.700	24.250
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.016	-0.004
%RSD		0.000	5.057	18200.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.002	98.707%	-0.045
%RSD		495.000	0.498	10.430
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.435	0.000	0.000
%RSD		9.105	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.096	0.142	104.378%
%RSD		11.530	9.115	0.056

LWAX6C 3/15/2010 14:58:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		96.386%	80.680	T 9481.000
%RSD		1.592	1.972	T 1.393
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10170.000	M 9471.000	0.000
%RSD		1.144	M 0.900	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 7717.000	8665.000	T 0.000
%RSD		T 1.450	1.424	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.322%	92.750	96.320
%RSD		1.971	0.808	1.338
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.399	T 80.600	10030.000
%RSD		1.787	T 3.010	1.078
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.080	100.200	102.300
%RSD		0.335	1.575	0.396
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		94.470	85.502%	82.090
%RSD		1.908	0.490	0.502
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.030	73.810	98.190
%RSD		361.000	1.605	1.514
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.500	52.570
%RSD		0.000	0.236	23.850
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		91.150	90.990%	88.610
%RSD		0.712	0.253	0.972
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		91.050	0.000	0.000
%RSD		1.180	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		94.360	94.320	95.131%
%RSD		0.121	0.345	0.893

LWFVK 3/15/2010 15:04:41 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		102.013%	3.340	T 248.900
%RSD		1.309	4.856	T 1.421
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		17570.000	M 66020.000	0.000
%RSD		1.405	M 1.140	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 6063.000	4107.000	T 0.000
%RSD		T 1.641	0.983	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		107.325%	113.700	94.350
%RSD		0.578	1.102	1.042
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.320	TM 2033.000	TM 190000.000
%RSD		16.060	TM 2.193	TM 2.316
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		65.330	132.900	153.100
%RSD		1.033	0.496	0.640
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 440.500	104.674%	147.400
%RSD		M 0.866	0.423	0.264
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.493	6.630	9.500
%RSD		10.260	5.404	1.246
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.053	-28.160
%RSD		0.000	7.759	13.680
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.217	103.712%	0.742
%RSD		14.740	0.115	5.014
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 269.600	0.000	0.000
%RSD		M 0.870	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.025	104.100	102.432%
%RSD		3.238	0.903	0.817

LWFVM 3/15/2010 15:09:13 QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.612%	3.220	T 370.200
%RSD		0.508	2.015	T 1.704
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		27950.000	M 60080.000	0.000
%RSD		0.289	M 0.472	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9005.000	32710.000	T 0.000
%RSD		T 1.424	0.599	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		106.223%	106.300	101.200
%RSD		0.537	0.297	1.108
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.793	TM 3903.000	TM 208600.000
%RSD		14.860	TM 1.170	TM 1.571
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		88.440	M 200.600	176.400
%RSD		1.233	M 0.645	0.717
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 540.800	103.234%	143.400
%RSD		M 1.162	0.191	0.213
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.491	8.131	8.268
%RSD		5.467	4.440	2.233
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.125	-31.580
%RSD		0.000	4.030	42.530
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.479	101.502%	0.730
%RSD		16.750	0.537	2.661
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 243.800	0.000	0.000
%RSD		M 0.368	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.086	102.100	100.218%
%RSD		0.824	0.913	0.357

LWFVN 3/15/2010 15:13:44 QC Status: PASS (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.005%	4.492	137.900
%RSD		1.914	2.828	1.230
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		9965.000	M 29500.000	0.000
%RSD		1.445	M 0.779	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 4159.000	3590.000	T 0.000
%RSD		T 3.272	2.055	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		111.546%	89.850	68.030
%RSD		0.218	0.786	0.758
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.816	TM 4947.000	TM 340900.000
%RSD		11.590	TM 2.192	TM 0.965
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		78.900	114.300	67.310
%RSD		0.405	1.445	0.503
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 510.500	106.861%	37.030
%RSD		M 0.972	0.973	1.030
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.567	7.660	5.069
%RSD		15.870	8.699	2.303
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.119	-26.080
%RSD		0.000	5.603	28.690
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.638	105.688%	0.540
%RSD		7.730	0.704	11.340
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		166.900	0.000	0.000
%RSD		0.378	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.886	111.300	96.484%
%RSD		0.526	0.976	0.727

LWFVQ 3/15/2010 15:18:21 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		77.294%	4.985	T 776.700
%RSD		2.478	1.604	T 2.188
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		72940.000	M 93980.000	0.000
%RSD		0.938	M 0.987	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 13610.000	TM 313800.000	T 0.000
%RSD		T 1.713	TM 1.265	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.534%	174.400	158.300
%RSD		2.371	1.154	0.486
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.662	TM 3628.000	TM 241900.000
%RSD		13.090	TM 1.749	TM 0.824
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		103.700	M 261.800	169.500
%RSD		0.831	M 1.065	1.832
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 481.900	78.537%	87.560
%RSD		M 0.660	1.187	1.196
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.508	6.750	16.050
%RSD		12.030	8.942	2.500
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.186	-40.650
%RSD		0.000	7.442	25.760
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.501	82.258%	0.542
%RSD		6.477	1.290	3.223
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 608.100	0.000	0.000
%RSD		M 0.072	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.486	92.850	86.476%
%RSD		1.045	0.608	1.489

LWGP2 3/15/2010 15:22:54 QC Status: PASS (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.415%	-0.007	TM 194100.000
%RSD		1.308	41.890	TM 1.428
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 288300.000	105.900	0.000
%RSD		M 0.468	3.523	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		TM 356000.000	77530.000	T 0.000
%RSD		TM 1.301	1.554	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		107.667%	1.356	94.610
%RSD		2.783	49.550	0.122
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.614	T 147.400	3611.000
%RSD		20.360	T 1.410	1.178
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		1.002	21.100	2.358
%RSD		4.622	1.998	4.273
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		6.535	98.700%	26.520
%RSD		8.124	2.181	2.959
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.156	0.220	2.403
%RSD		16.790	72.720	3.775
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.002	-12.360
%RSD		0.000	261.700	31.230
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.057	95.505%	0.786
%RSD		78.860	1.251	7.155
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		79.840	0.000	0.000
%RSD		0.924	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		-0.043	0.390	81.990%
%RSD		4.166	4.482	0.905

LWGP2F 3/15/2010 15:27:30 QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		93.698%	-0.012	TM 198200.000
%RSD		1.191	21.850	TM 0.229
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 342300.000	38.450	0.000
%RSD		M 0.468	19.020	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		TM 347100.000	68220.000	T 0.000
%RSD		TM 1.198	1.625	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		113.389%	3.215	36.460
%RSD		1.221	12.970	0.979
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.188	86.320	-43.110
%RSD		16.600	1.470	50.900
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.335	6.059	0.202
%RSD		16.410	2.582	7.398
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-1.310	102.732%	11.950
%RSD		18.800	1.693	1.515
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.176	0.451	0.586
%RSD		24.820	19.280	6.863
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.000	-21.480
%RSD		0.000	1140.000	24.540
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.005	99.152%	0.323
%RSD		420.000	1.386	7.741
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		78.500	0.000	0.000
%RSD		0.799	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		-0.054	0.054	83.869%
%RSD		11.680	12.780	0.876

LWKETB 3/15/2010 15:32:02 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		121.409%	-0.020	T 245.300
%RSD		1.983	3.815	T 1.110
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		206.900	6.326	0.000
%RSD		55.780	78.220	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 444.300	223.800	T 0.000
%RSD		T 1.923	2.730	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		114.312%	-0.032	1.893
%RSD		1.858	249.200	3.091
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.172	0.992	50.270
%RSD		9.888	4.560	37.870
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		-0.019	0.591	0.536
%RSD		56.420	11.770	5.254
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		1.371	115.111%	0.134
%RSD		10.480	0.640	32.410
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.218	-0.077	0.167
%RSD		8.792	149.100	7.595
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.016	0.458
%RSD		0.000	5.167	20.880
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.020	110.050%	0.010
%RSD		12.010	0.753	215.200
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.760	0.000	0.000
%RSD		10.650	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		-0.079	0.055	114.005%
%RSD		2.726	12.220	0.536

CCV 3 3/15/2010 15:36:40 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		101.746%	96.042%	T 106.295%
%RSD		1.281	0.690	T 0.387
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		105.436%	103.200%	0.000
%RSD		0.681	1.188	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 90.686%	92.982%	T 0.000
%RSD		T 0.287	0.841	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		93.725%	98.359%	100.233%
%RSD		0.873	0.366	0.746
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.757	T 90.498%	T 102.280%
%RSD		15.170	T 0.735	T 1.554
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		101.232%	102.289%	103.605%
%RSD		0.704	0.416	0.766
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		106.036%	91.262%	99.581%
%RSD		1.400	0.828	0.373
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.265	96.456%	105.230%
%RSD		44.940	2.384	0.519
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	104.865%	99.670
%RSD		0.000	1.460	14.760
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		104.811%	92.198%	101.612%
%RSD		0.382	0.170	0.621
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		95.803%	0.000	0.000
%RSD		0.089	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.094%	99.505%	92.749%
%RSD		0.975	0.938	0.547

CCB 3 3/15/2010 15:43:25 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		105.609%	0.018	44.570
%RSD		0.677	25.660	2.875
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		15.690	0.248	0.000
%RSD		35.100	680.600	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		24.280	17.160	T 0.000
%RSD		10.520	18.470	T 0.000
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		96.750%	-0.032	0.017
%RSD		1.235	476.100	152.600
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.101	0.172	8.790
%RSD		129.900	2.040	9.192
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.023	-0.002	0.030
%RSD		99.640	1021.000	65.710
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.174	98.890%	-0.079
%RSD		20.660	1.100	86.360
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.002	-0.034	0.024
%RSD		2110.000	221.500	99.100
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.015	-0.006
%RSD		0.000	36.300	5421.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.010	97.909%	0.008
%RSD		99.100	0.102	192.200
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.007	0.000	0.000
%RSD		361.800	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.148	0.005	104.772%
%RSD		11.560	63.580	0.222

STD2/CCV STD 0B97 ICSA STD 0C123 CRI STD 0B98
STD3 STD 0B59 ICSAB STD 0B99 DIL BLK 0MR121
STD4 STD 0B60 ICV STD 0B61
QSMCRI 0A40

Test America North Canton ICP/MS Data Review Checklist

Run/Project Information:

Run Date: 3-16-10 Analyst: KLL Instrument: I8
Prep Batches Run: See Run Log

Circle Methods used: 6020/ 200.8: CORP-MT-0001NC

Review Items

A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
2. Performance check within recommended specfications? (Be>8000cps) (In >300,000 cps) (Pb >100,000 cps) (Co>100000cps) (Mg>10000cps) (CeO/Ce ≤ 0.03) (Ba++/Ba+ ≤ 0.03)(Background < 30cps @ Mass 220) CCT Performance Check (In>75000cps) (Se<20 cps)	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? Correlation coefficient ≥ .995 ?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? *(ICV: = 90 – 110%) (CCV: 90 – 110%, 200.8 = 85 -115%)*	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%)?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed ?	✓			✓
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time ?	✓			
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits ?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits ?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits ?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
E. Other				
1. Are all nonconformances documented appropriately ?	✓			✓
2. Current IDL/LR data on file ?	✓			✓
3. Calculations checked for error ?	✓			✓
4. Transcriptions checked for error ?	✓			✓
5. All client/project specific requirements met ?	✓			✓
6. Date/time of analysis verified as correct ?	✓			✓

Level I Analyst: Karen L Counts Date: 3-16-10 Time: 06:44 - 10:04
Level I Analyst: Karen L Counts Date: 3-17-10 Time: 10:11 - 20:08
Level II Reviewer: [signature] Date: 3.16.10 Time: 06:44 - 10:04
Level II Reviewer: [signature] Date: 3.17.10 Time: 10:11 - 10:08

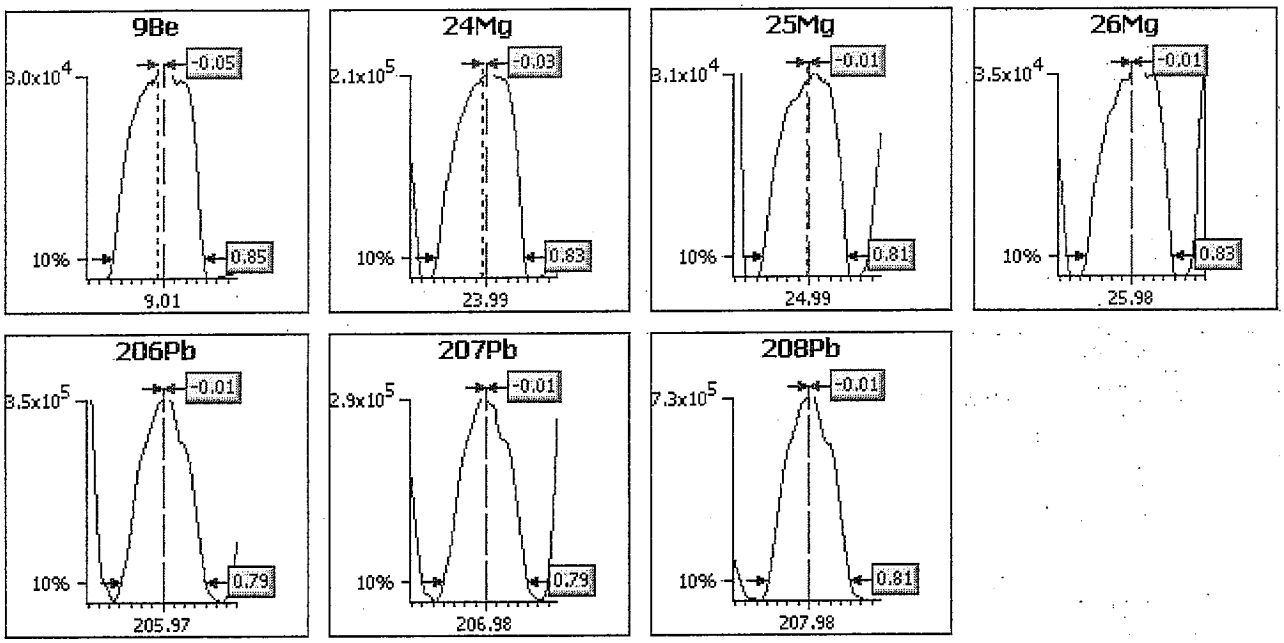
Comments:

Performance Report

Sample details
Acquired at : 3/16/2010 06:25:04
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Mass Calibration verification

Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 10% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.85	-0.05
24Mg	0.85	0.65	0.10	0.83	-0.03
25Mg	0.85	0.65	0.10	0.81	-0.01
26Mg	0.85	0.65	0.10	0.83	-0.01
206Pb	0.85	0.65	0.10	0.79	-0.01
207Pb	0.85	0.65	0.10	0.79	-0.01
208Pb	0.85	0.65	0.10	0.81	-0.01

Sample details
Acquired at : 3/16/2010 06:25:04
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Tune conditions

Major	
Extraction	-125.5
Lens 1	-1216
Lens 2	-80.0
Focus	12.5
D1	-46.3
D2	-140
Pole Bias	0.1
Hexapole Bias	-4.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	69
Vertical	362
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	125
High resolution	125
Analogue Detector	1529
PC Detector	3176

Add. Gases	
He_H2	0.00
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	137Ba++	101Bkg	115In
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0	10.0
Limits	%RSD	-	5.0%	-	5.0%	-	5.0%	-	-	5.0%
	Countrate	-	>8000	>10000	>10000	>10000	>100000	-	-	>300000
1	06:25:39	0.000	30921.992	219533.05	30514.575	36309.508	457168.60	2517.968	9.667	1097247.5
2	06:25:57	0.000	30785.072	220553.05	30431.090	36666.956	459203.40	2474.628	5.667	1086393.3
3	06:26:14	0.333	30684.888	218502.98	29870.076	36252.718	456144.43	2461.293	9.333	1098278.9
4	06:26:32	0.000	30177.295	217935.62	30461.144	36175.885	456058.80	2537.971	7.000	1090882.8
5	06:26:50	0.667	30905.294	219674.90	29789.933	35791.724	456230.06	2460.182	13.000	1094352.9
x		0.200	30694.908	219239.92	30213.364	36239.358	456961.06	2490.408	8.933	1093431.1
σ		0.30	304.95	1030.01	352.37	313.19	1331.02	35.47	2.81	4871.89
%RSD		149.071	0.993	0.470	1.166	0.864	0.291	1.424	31.485	0.446

Run	Time	137Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	-	-	-	-	-	5.0%	-
	Countrate	-	-	-	>100000	>100000	>100000	<30
1	06:25:39	124086.88	1041034.6	26043.666	358927.02	299944.94	739931.61	0.000
2	06:25:57	123374.96	1033578.0	24720.542	359996.38	296555.08	736685.80	0.000
3	06:26:14	124506.66	1043296.3	25597.420	359975.95	297423.69	740154.53	0.000
4	06:26:32	122988.79	1034456.7	24333.306	359373.15	301770.79	736929.57	0.333
5	06:26:50	123183.55	1038340.8	23981.686	357234.57	293698.50	738043.95	0.333
x		123628.17	1038141.3	24935.324	359101.41	297878.60	738349.09	0.133
σ		642.80	4164.89	863.83	1135.25	3116.52	1630.85	0.18
%RSD		0.520	0.401	3.464	0.316	1.046	0.221	136.931

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0300
1	06:25:39	0.020	0.025
2	06:25:57	0.020	0.024
3	06:26:14	0.020	0.025
4	06:26:32	0.021	0.024
5	06:26:50	0.020	0.023
x		0.0201	0.0240
σ		0.00	0.00
%RSD		1.6501	3.2054

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 3/16/2010 06:35:35
Report name : CCT MODE PERF REPORT [5/14/2008 11:21:44]

Tune conditions

Major	
Extraction	-109.8
Lens 1	-1200
Lens 2	-80.0
Focus	1.8
D1	-51.0
D2	-140
Pole Bias	-14.0
Hexapole Bias	-17.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	62
Vertical	362
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	125
High resolution	125
Analogue Detector	1529
PC Detector	3176

Add. Gases	
He_H2	2.31
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	78Se	115In
Dwell (mSecs)		500.0	10.0
Limits	%RSD	-	5.0%
	Countrate	<20	>75000
1	06:35:36	14.267	121202.44
2	06:35:53	14.267	121746.38
3	06:36:11	14.867	121994.85
4	06:36:28	14.267	122008.29
5	06:36:46	14.400	122585.83
x		14.413	121907.56
σ		0.26	500.25
%RSD		1.803	0.410

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA NORTH CANTON_QSM 3.0.tet
Created By User	martin.nash
Analyte Database	TA NORTH CANTON MULTIMODE.tea
Creation Timestamp	10/10/2007 09:08:48
Last Edited By	Upload
Last Edit Timestamp	3/16/2010 06:38:32
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

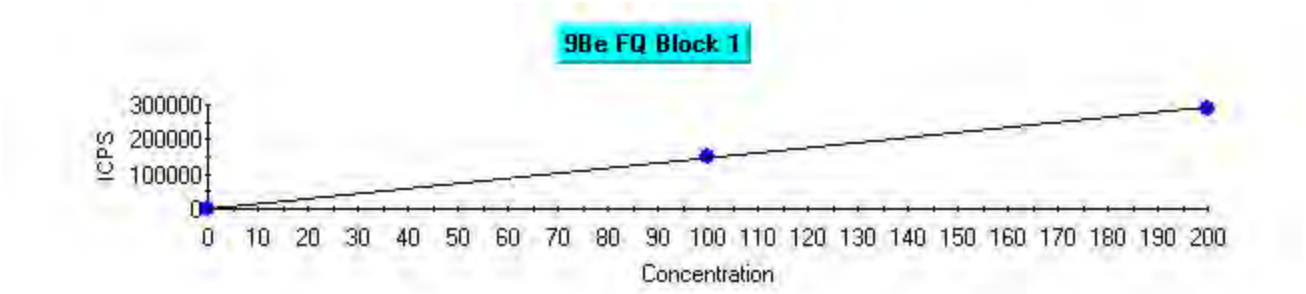
Column headings
- No flag
- Semi Quant
- Standard Addition
- Multi Element

Result cells
- Internal Standard
- Excluded
- QC Warning
- QC Failure

Transient TRA only:
- Peak Not Found
- Manually Edited
- Merged Peak

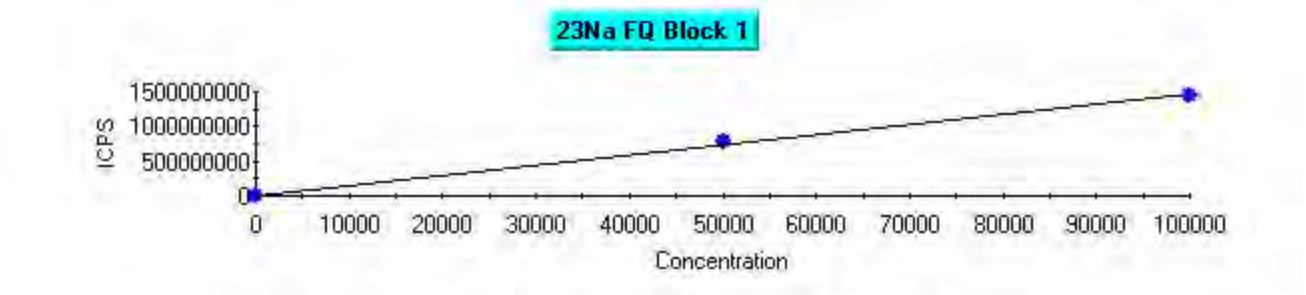
Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Fully Quant Calibration



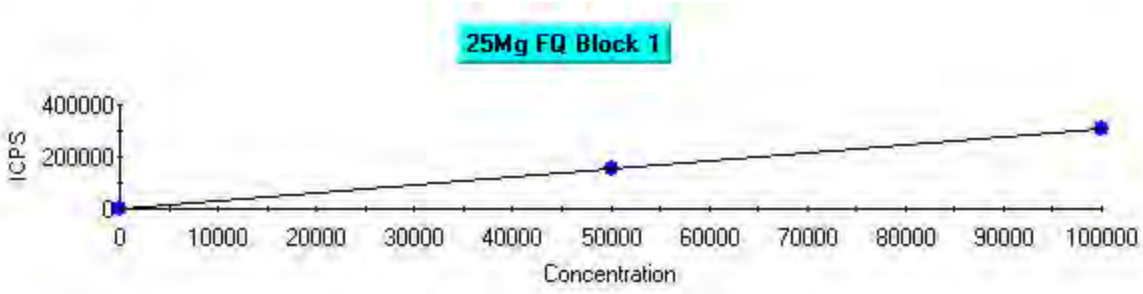
Intercept CPS=79.642154 Intercept Conc=0.054483
Sensitivity=1461.775571 Correlation Coeff=0.999834

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	79.64	0.00
STD2	100.000	102.508	2.508	149923.98	2.51
STD3	200.000	198.746	1.254	290601.37	0.63



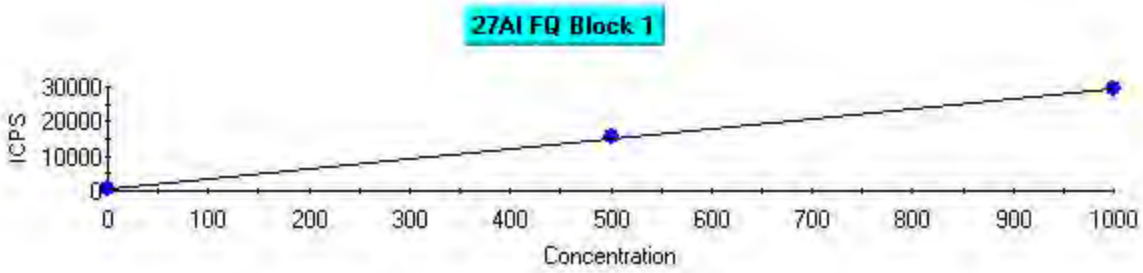
Intercept CPS=811465.046739 Intercept Conc=55.711024
Sensitivity=14565.610058 Correlation Coeff=0.998929

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	811465.05	0.00
STD2	50000.000	53158.404	3158.404	775096053.14	6.32
STD3	100000.000	98420.798	1579.202	1434370428.28	1.58



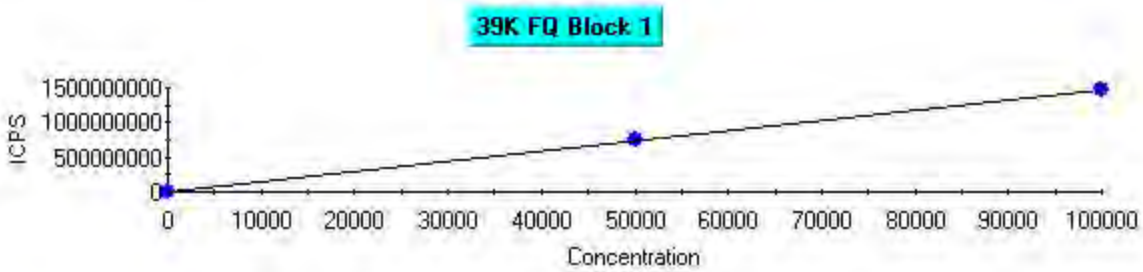
Intercept CPS=91.126668 Intercept Conc=29.664514
Sensitivity=3.071908 Correlation Coeff=0.999850

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	91.13	0.00
STD2	50000.000	51192.366	1192.366	157349.38	2.38
STD3	100000.000	99403.817	596.183	305450.54	0.60



Intercept CPS=422.284934 Intercept Conc=14.544030
Sensitivity=29.034932 Correlation Coeff=0.999665

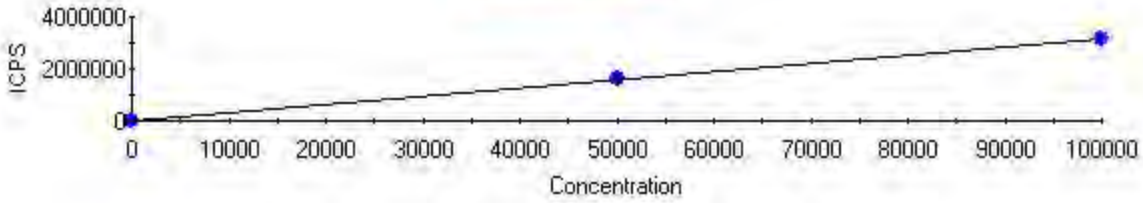
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	422.28	0.00
STD2	500.000	517.774	17.774	15455.83	3.55
STD3	1000.000	991.113	8.887	29199.18	0.89



Intercept CPS=1072803.888678 Intercept Conc=72.815209
Sensitivity=14733.239255 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1072803.89	0.00
STD2	50000.000	50236.476	236.476	741218829.03	0.47
STD3	100000.000	99881.762	118.238	1472654698.21	0.12

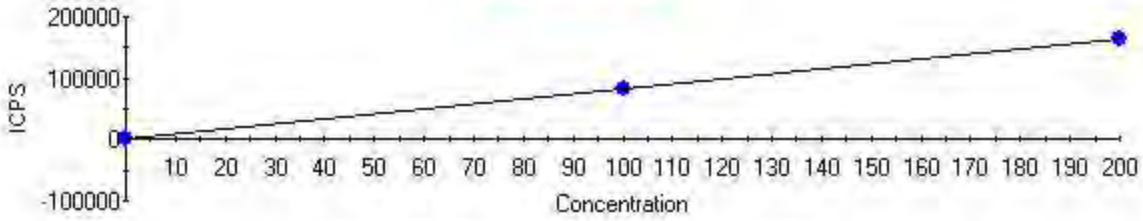
43Ca FQ Block 1



Intercept CPS=2635.407727 Intercept Conc=83.715489
Sensitivity=31.480527 Correlation Coeff=0.999594

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	2635.41	0.00
STD2	50000.000	51954.676	1954.676	1638195.99	3.91
STD3	100000.000	99022.662	977.338	3119921.02	0.98

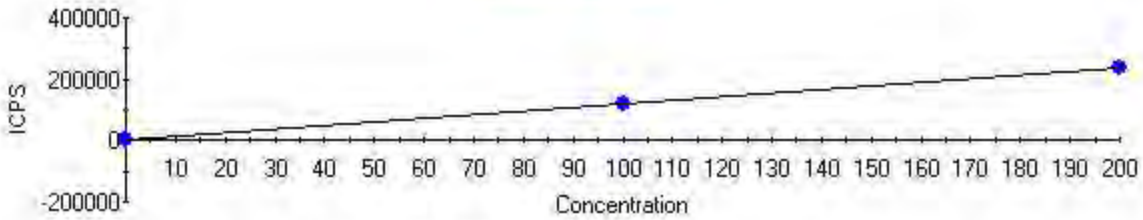
51V FQ Block 1



Intercept CPS=-158.478003 Intercept Conc=-0.192841
Sensitivity=821.805634 Correlation Coeff=0.999953

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	-158.48	0.00
STD2	100.000	101.337	1.337	83120.88	1.34
STD3	200.000	199.331	0.669	163653.25	0.33

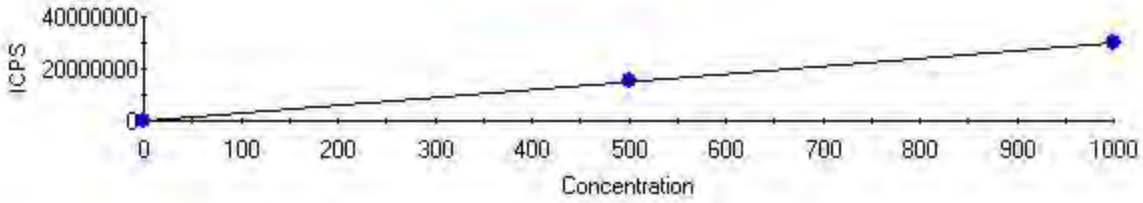
52Cr FQ Block 1



Intercept CPS=-350.615320 Intercept Conc=-0.297821
Sensitivity=1177.266727 Correlation Coeff=0.999910

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-350.62	0.00
STD2	100.000	101.855	1.855	119559.62	1.85
STD3	200.000	199.073	0.927	234010.95	0.46

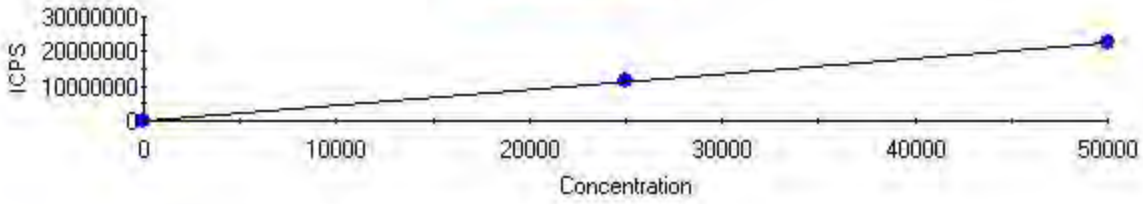
55Mn FQ Block 1



Intercept CPS=11288.843422 Intercept Conc=0.375108
Sensitivity=30094.910106 Correlation Coeff=0.999988

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	11288.84	0.00
STD2	500.000	503.366	3.366	15160033.70	0.67
STD3	1000.000	998.317	1.683	30055554.05	0.17

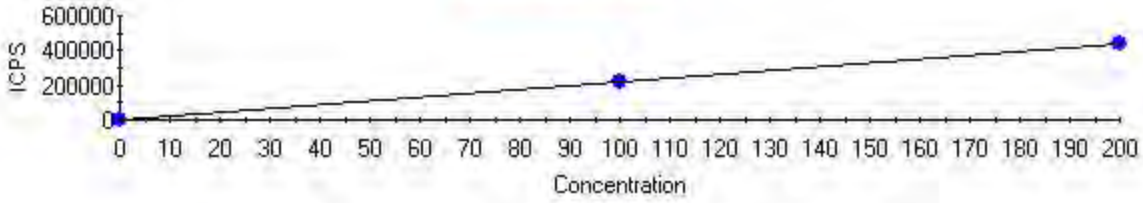
56Fe FQ Block 1



Intercept CPS=7481.051698 Intercept Conc=16.629754
Sensitivity=449.859437 Correlation Coeff=0.999684

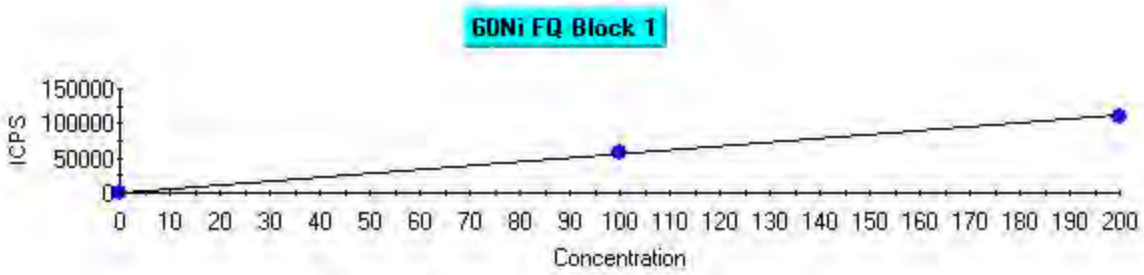
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	7481.05	0.00
STD2	25000.000	25862.917	862.917	11642158.23	3.45
STD3	50000.000	49568.542	431.458	22306357.25	0.86

59Co FQ Block 1



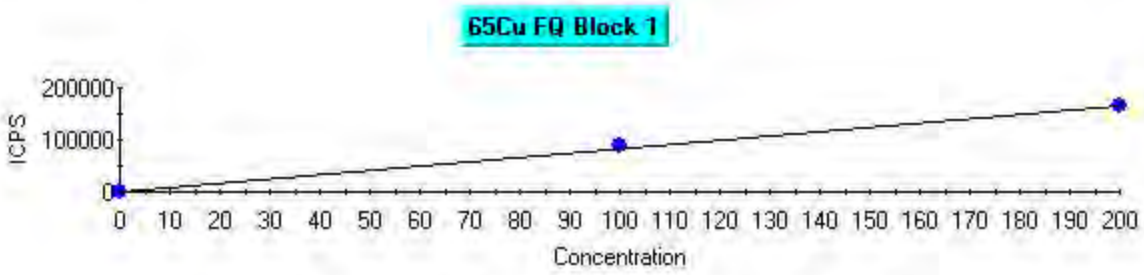
Intercept CPS=113.307212 Intercept Conc=0.051727
Sensitivity=2190.483673 Correlation Coeff=0.999900

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	113.31	0.00
STD2	100.000	101.946	1.946	223423.88	1.95
STD3	200.000	199.027	0.973	436078.94	0.49



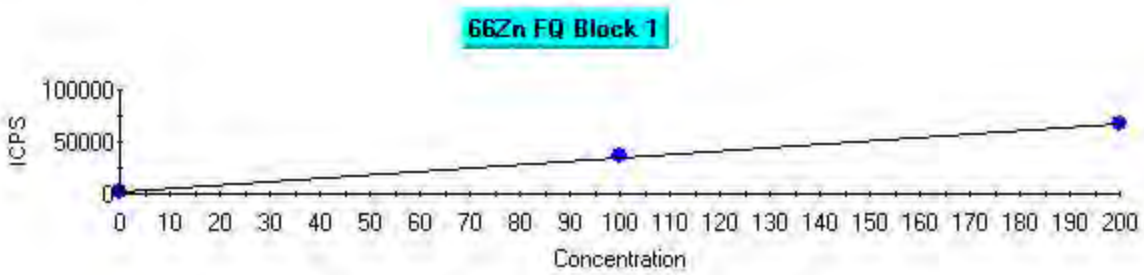
Intercept CPS=72.158153 Intercept Conc=0.129951
Sensitivity=555.273726 Correlation Coeff=0.999808

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	72.16	0.00
STD2	100.000	102.694	2.694	57095.54	2.69
STD3	200.000	198.653	1.347	110378.90	0.67



Intercept CPS=95.560905 Intercept Conc=0.114933
Sensitivity=831.448043 Correlation Coeff=0.999472

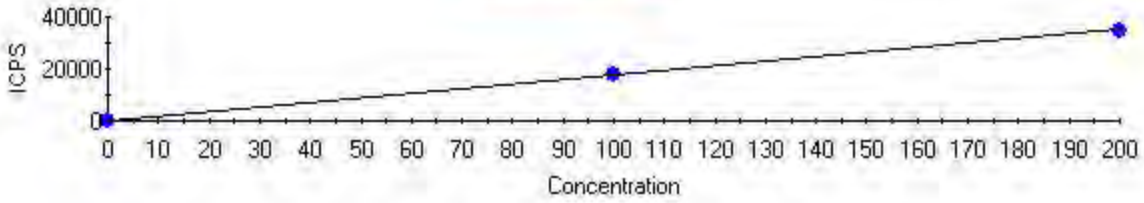
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	95.56	0.00
STD2	100.000	104.456	4.456	86945.69	4.46
STD3	200.000	197.772	2.228	164532.51	1.11



Intercept CPS=1640.744038 Intercept Conc=5.004713
Sensitivity=327.839816 Correlation Coeff=0.999458

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1640.74	0.00
STD2	100.000	104.512	4.512	35904.05	4.51
STD3	200.000	197.744	2.256	66469.04	1.13

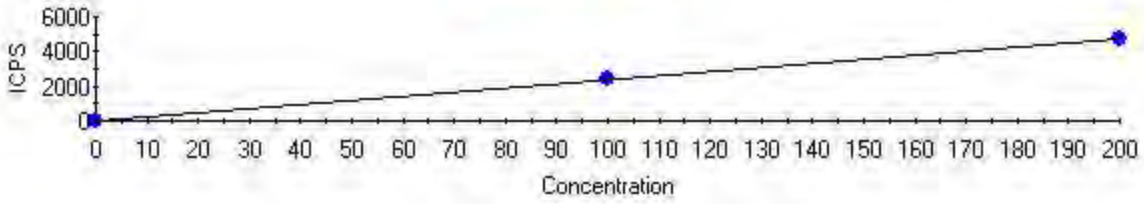
75As FQ Block 1



Intercept CPS=153.514758 Intercept Conc=0.879595
Sensitivity=174.528902 Correlation Coeff=0.999913

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	153.51	0.00
STD2	100.000	101.824	1.824	17924.69	1.82
STD3	200.000	199.088	0.912	34900.15	0.46

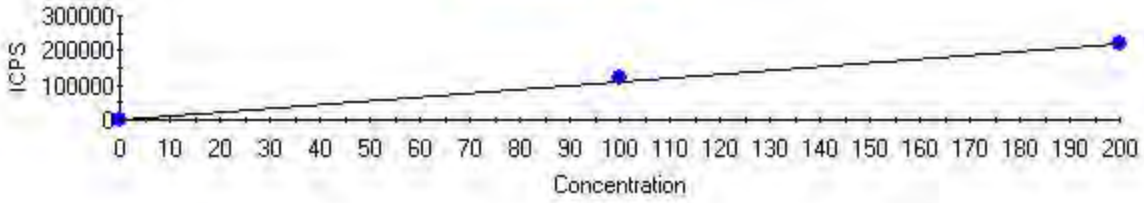
78Se FQ Block 1



Intercept CPS=4.926111 Intercept Conc=0.209430
Sensitivity=23.521477 Correlation Coeff=0.999777

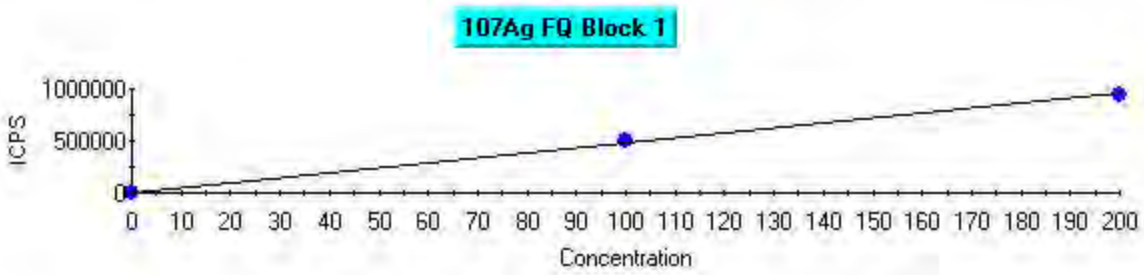
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	4.93	0.00
STD2	100.000	102.908	2.908	2425.47	2.91
STD3	200.000	198.546	1.454	4675.02	0.73

95Mo FQ Block 1



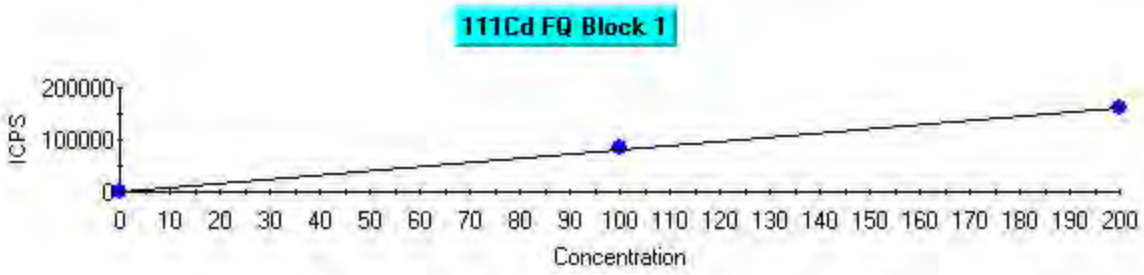
Intercept CPS=68.871946 Intercept Conc=0.062088
Sensitivity=1109.262936 Correlation Coeff=0.998718

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	68.87	0.00
STD2	100.000	106.901	6.901	118650.51	6.90
STD4	200.000	196.549	3.451	218093.79	1.73



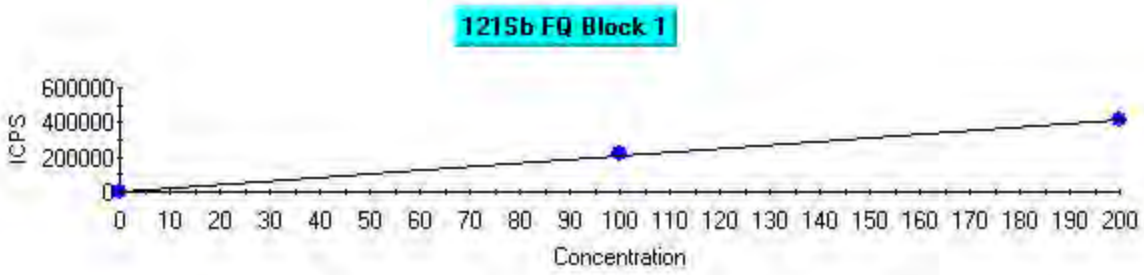
Intercept CPS=195.460366 Intercept Conc=0.040964
Sensitivity=4771.494768 Correlation Coeff=0.999330

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	195.46	0.00
STD2	100.000	105.012	5.012	501258.35	5.01
STD3	200.000	197.494	2.506	942537.71	1.25



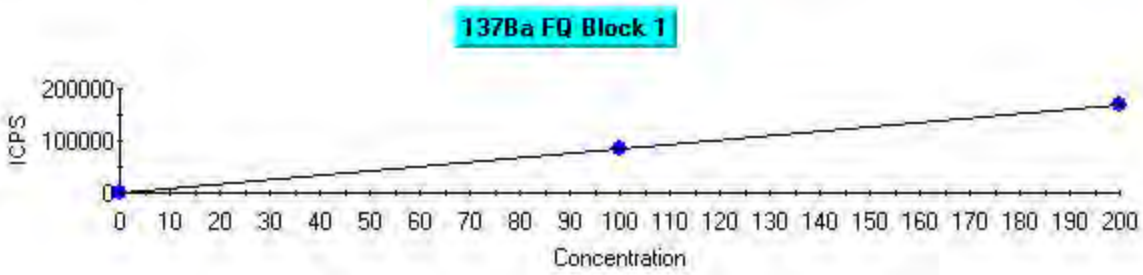
Intercept CPS=31.088716 Intercept Conc=0.038488
Sensitivity=807.756858 Correlation Coeff=0.999705

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	31.09	0.00
STD2	100.000	103.340	3.340	83504.41	3.34
STD3	200.000	198.330	1.670	160233.64	0.83



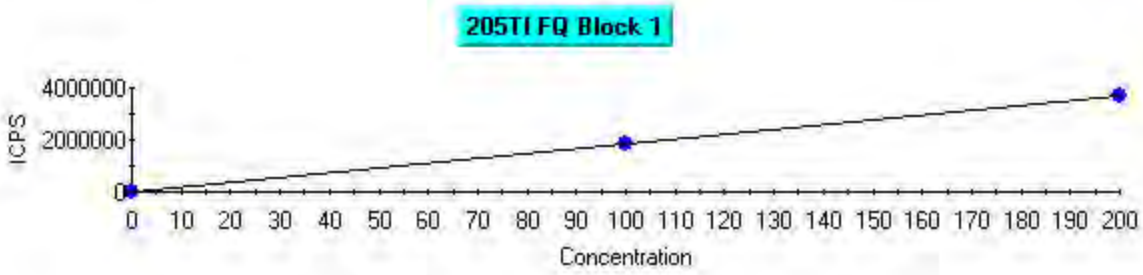
Intercept CPS=132.040889 Intercept Conc=0.063719
Sensitivity=2072.237095 Correlation Coeff=0.999751

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	132.04	0.00
STD2	100.000	103.071	3.071	213719.44	3.07
STD4	200.000	198.465	1.535	411397.62	0.77



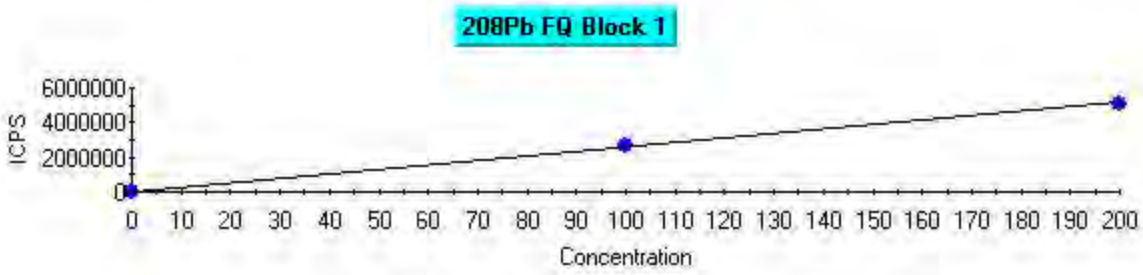
Intercept CPS=110.976957 Intercept Conc=0.131676
Sensitivity=842.803427 Correlation Coeff=0.999988

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	110.98	0.00
STD2	100.000	100.680	0.680	84964.73	0.68
STD3	200.000	199.660	0.340	168384.96	0.17



Intercept CPS=811.527978 Intercept Conc=0.043586
Sensitivity=18619.009707 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	811.53	0.00
STD2	100.000	100.780	0.780	1877241.28	0.78
STD3	200.000	199.610	0.390	3717349.08	0.20



Intercept CPS=2315.685668 Intercept Conc=0.090001
Sensitivity=25729.450070 Correlation Coeff=0.999918

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	2315.69	0.00
STD2	100.000	101.769	1.769	2620775.56	1.77
STD3	200.000	199.116	0.884	5125448.27	0.44

Dilution Corrected Concentrations

STD1 3/16/2010 06:44:45

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.000%	0.000	0.000
%RSD		0.923	0.000	0.000
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		0.000	-0.000	T0.000
%RSD		0.000	0.000	T0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		0.000	-0.000	T100.000%
%RSD		0.000	0.000	T0.956
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		100.000%	-0.000	0.000
%RSD		0.398	0.000	0.000
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		0.000	100.000%	-0.000
%RSD		0.000	0.599	0.000
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		-0.000	100.000%	-0.000
%RSD		0.000	1.404	0.000
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.000	0.000	100.000%
%RSD		0.000	0.000	1.090

STD2 3/16/2010 06:49:26

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.380%	102.500	T 53160.000
%RSD		1.149	0.560	T 0.416
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		51190.000	517.800	T 0.000
%RSD		1.786	0.667	T 0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 50240.000	51950.000	T 93.349%
%RSD		T 0.310	1.049	T 0.489
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		89.589%	101.300	101.900
%RSD		0.605	1.545	0.699
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		4.437	T 503.400	T 25860.000
%RSD		10.520	T 0.568	T 2.072
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		101.900	102.700	104.500
%RSD		0.825	0.763	1.625
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		104.500	87.563%	101.800
%RSD		1.671	1.725	0.987
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.328	102.900	106.900
%RSD		14.410	2.617	0.782
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	105.000	72.980
%RSD		0.000	0.377	11.230
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		103.300	90.999%	103.100
%RSD		1.276	0.361	1.268
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		100.700	0.000	0.000
%RSD		0.602	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		100.800	101.800	90.697%
%RSD		0.726	0.701	0.682

STD3 3/16/2010 06:56:17

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.313%	M 198.700	TM 98420.000
%RSD		2.056	M 1.376	TM 1.845
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 99400.000	991.100	0.000
%RSD		M 1.317	0.315	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		TM 99880.000	99020.000	T 91.550%
%RSD		TM 0.580	0.891	T 1.510
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		93.383%	M 199.300	M 199.100
%RSD		0.975	M 0.702	M 1.019
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		8.177	TM 998.300	T 49570.000
%RSD		4.656	TM 0.492	T 0.692
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		M 199.000	M 198.700	197.800
%RSD		M 1.374	M 1.969	1.071
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 197.700	90.414%	M 199.100
%RSD		M 1.307	1.821	M 0.983
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.384	M 198.500	0.058
%RSD		38.520	M 1.659	18.270
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	197.500	103.400
%RSD		0.000	0.995	12.070
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		198.300	94.292%	0.038
%RSD		0.894	0.443	41.640
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 199.700	0.000	0.000
%RSD		M 1.131	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		TM 199.600	M 199.100	89.973%
%RSD		TM 1.339	M 0.409	1.089

STD4 3/16/2010 07:03:07

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		95.249%	0.063	17.470
%RSD		2.461	11.710	4.452
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		36.590	-0.513	0.000
%RSD		31.010	382.400	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		34.890	31.580	T 86.899%
%RSD		1.588	14.150	T 1.229
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.374%	0.147	0.079
%RSD		0.629	76.100	33.370
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.348	0.423	18.820
%RSD		28.710	3.435	2.304
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.147	0.227	0.363
%RSD		8.898	32.160	5.651
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-3.254	91.798%	0.167
%RSD		4.430	0.889	50.760
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.077	0.197	196.500
%RSD		47.350	86.540	0.310
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.080	6.706
%RSD		0.000	2.347	29.670
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.092	94.589%	198.500
%RSD		30.130	0.186	0.699
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.065	0.000	0.000
%RSD		34.910	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.296	0.118	102.883%
%RSD		7.979	2.626	0.039

ICV 3/16/2010 07:09:23 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.219%	100.080%	T 101.584%
%RSD		0.692	2.027	T 0.776
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		102.506%	103.147%	0.000
%RSD		0.445	2.625	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 101.439%	105.285%	T 85.967%
%RSD		T 0.913	0.723	T 0.729
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		88.427%	100.417%	102.964%
%RSD		1.487	1.071	0.841
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		3.223	T 101.533%	T 100.496%
%RSD		11.690	T 0.358	T 1.288
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		102.481%	103.666%	103.848%
%RSD		0.411	1.269	0.687
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		101.480%	85.895%	100.547%
%RSD		1.241	1.025	1.482
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.057	102.448%	103.149%
%RSD		116.500	1.619	0.518
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	104.687%	39.380
%RSD		0.000	0.212	133.300
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		102.999%	91.873%	102.251%
%RSD		1.563	2.306	1.344
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		98.042%	0.000	0.000
%RSD		0.341	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		100.160%	99.017%	94.529%
%RSD		0.422	1.251	0.406

ICB 3/16/2010 07:16:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		96.506%	0.005	-0.248
%RSD		0.283	141.400	218.000
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		0.509	0.034	0.000
%RSD		1150.000	8060.000	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		3.307	2.528	T 85.836%
%RSD		27.470	64.980	T 0.724
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.732%	0.018	0.038
%RSD		0.356	726.800	45.730
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.181	0.004	-0.652
%RSD		59.730	153.500	135.700
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.004	0.021	0.019
%RSD		101.700	193.900	127.000
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.152	89.126%	0.011
%RSD		99.770	0.878	891.100
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.018	0.004	0.025
%RSD		129.400	479.300	92.850
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.004	0.537
%RSD		0.000	185.100	81.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.002	94.093%	0.024
%RSD		945.500	0.106	26.390
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.008	0.000	0.000
%RSD		349.100	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.186	0.010	101.798%
%RSD		7.411	43.050	0.391

CRI 3/16/2010 07:20:55 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.060%	97.802%	T 99.489%
%RSD		1.435	4.081	T 0.986
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		103.155%	94.938%	0.000
%RSD		2.167	4.688	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 96.369%	104.851%	T 83.423%
%RSD		T 0.773	0.690	T 0.864
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		84.739%	100.111%	99.841%
%RSD		0.443	4.067	1.243
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.225	76.557%	77.751%
%RSD		63.220	2.019	3.106
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		96.633%	108.778%	105.532%
%RSD		4.435	5.425	5.104
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		89.572%	83.916%	95.814%
%RSD		4.326	0.181	12.520
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.016	96.947%	100.513%
%RSD		196.400	26.330	1.584
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	95.036%	1.961
%RSD		0.000	6.756	165.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		102.259%	90.415%	95.290%
%RSD		6.823	0.357	4.078
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		90.858%	0.000	0.000
%RSD		4.432	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		102.107%	94.156%	98.954%
%RSD		1.492	1.538	0.620

CRIQ 3/16/2010 07:25:36 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.874%	96.628%	T 98.017%
%RSD		1.857	7.522	T 0.784
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		99.997%	92.619%	0.000
%RSD		0.535	1.050	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 98.096%	104.467%	T 81.877%
%RSD		T 0.844	1.458	T 0.486
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		84.107%	102.259%	98.146%
%RSD		0.844	2.201	2.378
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.346	96.814%	99.819%
%RSD		20.600	0.343	2.693
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		103.612%	108.907%	110.807%
%RSD		7.957	3.072	2.753
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		96.899%	82.062%	98.210%
%RSD		1.236	0.623	1.545
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.101	108.015%	97.547%
%RSD		24.630	6.928	0.519
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	107.526%	2.752
%RSD		0.000	3.822	34.050
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		103.088%	90.127%	102.691%
%RSD		2.459	0.534	4.972
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		93.461%	0.000	0.000
%RSD		0.932	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		95.272%	92.612%	98.810%
%RSD		1.965	1.243	0.828

ICSA 3/16/2010 07:30:16 QC Status: PASS (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.145%	-0.034	T 50410.000
%RSD		1.221	9.569	T 0.591
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		52270.000	M 50420.000	0.000
%RSD		0.170	M 0.575	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 50000.000	53290.000	T 80.753%
%RSD		T 0.265	0.341	T 1.380
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		82.937%	0.068	0.532
%RSD		1.404	174.300	10.620
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.325	-0.202	TM 49890.000
%RSD		46.150	2.148	TM 1.052
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.026	0.319	0.026
%RSD		11.900	4.841	69.050
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-3.260	86.263%	0.035
%RSD		4.387	1.626	65.860
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.068	-0.025	M 1012.000
%RSD		60.410	329.500	M 0.833
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.023	28.030
%RSD		0.000	46.530	17.070
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.011	88.604%	0.092
%RSD		509.800	1.339	14.270
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.008	0.000	0.000
%RSD		334.900	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.045	0.066	93.951%
%RSD		18.870	9.064	0.719

ICSAB 3/16/2010 07:34:55 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.635%	94.784%	T 101.869%
%RSD		2.318	2.583	T 1.269
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.191%	M 101.335%	0.000
%RSD		1.299	M 1.575	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 100.969%	106.093%	T 85.198%
%RSD		T 0.626	0.585	T 0.533
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		86.106%	98.559%	100.320%
%RSD		1.870	1.747	1.760
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.091	99.022%	TM 100.561%
%RSD		15.900	1.055	TM 0.889
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		96.948%	99.148%	97.669%
%RSD		1.574	2.210	0.614
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		99.633%	89.568%	94.422%
%RSD		1.222	1.383	0.484
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.196	96.826%	M 1112.000
%RSD		103.400	0.301	M 0.293
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	100.262%	46.140
%RSD		0.000	0.386	113.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.074%	92.209%	99.533%
%RSD		0.933	0.908	1.071
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		95.368%	0.000	0.000
%RSD		0.249	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.568%	97.418%	97.444%
%RSD		0.503	0.982	0.629

CCV 3/16/2010 07:41:47 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		93.987%	95.955%	T 105.414%
%RSD		1.325	1.558	T 0.147
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.389%	105.394%	0.000
%RSD		0.318	1.891	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 101.902%	105.006%	T 88.322%
%RSD		T 0.941	0.293	T 0.591
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		85.938%	99.791%	102.047%
%RSD		0.363	0.521	0.646
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.062	T 101.308%	T 102.260%
%RSD		17.400	T 0.265	T 0.136
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		102.088%	102.856%	104.305%
%RSD		0.497	0.856	1.323
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		105.143%	84.312%	100.190%
%RSD		2.779	1.316	0.240
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.242	99.745%	105.627%
%RSD		21.610	2.093	0.451
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	103.099%	88.280
%RSD		0.000	0.856	36.560
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		102.863%	91.081%	100.006%
%RSD		0.564	0.446	0.921
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.027%	0.000	0.000
%RSD		1.347	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		100.033%	98.626%	97.919%
%RSD		0.439	0.438	0.601

CCB 3/16/2010 07:48:37 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		94.602%	0.007	1.723
%RSD		0.690	24.950	49.870
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		0.519	2.064	0.000
%RSD		1921.000	137.300	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		4.791	6.597	T 81.284%
%RSD		26.690	50.290	T 1.163
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		85.078%	-0.070	0.047
%RSD		1.823	116.000	86.310
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.082	0.033	1.472
%RSD		57.830	30.530	57.580
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.002	0.031	0.035
%RSD		864.800	143.500	78.210
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.080	86.616%	0.062
%RSD		629.100	0.567	184.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.018	0.159	0.127
%RSD		204.600	32.710	9.531
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.000	1.013
%RSD		0.000	1328.000	159.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.012	92.557%	0.008
%RSD		126.700	0.807	17.430
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.001	0.000	0.000
%RSD		1737.000	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.236	0.014	105.084%
%RSD		5.048	10.060	0.326

LWDXGC 3/16/2010 07:54:38 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.453%	91.290	T 9768.000
%RSD		0.567	0.943	T 0.861
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10010.000	M 9641.000	0.000
%RSD		0.683	M 1.326	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9383.000	10500.000	T 77.579%
%RSD		T 1.138	0.444	T 0.382
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.213%	92.210	94.140
%RSD		1.382	1.955	1.020
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.375	94.350	T 9751.000
%RSD		8.751	0.659	T 1.492
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		95.000	97.540	100.800
%RSD		1.564	0.608	0.456
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		106.300	78.688%	93.870
%RSD		1.570	1.560	1.239
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.061	95.340	94.280
%RSD		35.010	2.107	0.537
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	98.670	25.860
%RSD		0.000	0.944	199.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		97.530	87.091%	95.480
%RSD		0.989	1.022	0.519
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		89.570	0.000	0.000
%RSD		1.133	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		90.880	89.880	99.475%
%RSD		0.773	0.648	0.589

LWCQQ/5 3/16/2010 08:01:29 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.037%	0.170	T 2244.000
%RSD		0.790	10.520	T 1.201
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1838.000	M 3410.000	0.000
%RSD		3.564	M 1.061	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 331.300	9580.000	T 77.720%
%RSD		T 1.779	1.232	T 0.217
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		82.677%	0.229	1.267
%RSD		1.712	61.420	4.368
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.124	T 739.100	T 15700.000
%RSD		149.700	T 0.411	T 1.250
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		7.678	13.140	1.929
%RSD		1.177	0.591	5.902
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		75.160	86.319%	0.482
%RSD		0.714	1.180	7.458
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.101	0.713	0.050
%RSD		26.400	31.730	45.930
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.011	-1.858
%RSD		0.000	62.810	66.620
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.224	90.460%	0.043
%RSD		13.710	0.454	22.320
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		4.082	0.000	0.000
%RSD		3.786	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.242	0.561	103.419%
%RSD		2.197	2.413	0.712

LWCQT/5 3/16/2010 08:07:23 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.954%	1.005	T 934.100
%RSD		1.153	5.799	T 0.538
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1280.000	M 3503.000	0.000
%RSD		3.061	M 1.158	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		158.600	7287.000	T 83.636%
%RSD		0.458	0.526	T 0.399
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		84.375%	0.220	0.777
%RSD		1.022	74.520	4.038
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.292	T 493.300	T 9693.000
%RSD		45.120	T 0.263	T 0.393
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		5.551	7.665	11.360
%RSD		1.068	2.030	1.416
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		38.070	88.873%	1.086
%RSD		1.309	1.294	7.585
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.120	1.364	-0.005
%RSD		22.950	12.000	33.190
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.028	-1.648
%RSD		0.000	12.080	37.440
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.097	92.434%	0.011
%RSD		18.570	0.742	94.610
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		2.238	0.000	0.000
%RSD		7.377	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.118	0.813	104.221%
%RSD		1.117	0.572	0.685

LWCRF/5 3/16/2010 08:12:00 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		93.873%	1.578	T 8720.000
%RSD		0.797	3.748	T 0.595
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1293.000	M 6179.000	0.000
%RSD		6.004	M 1.614	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 316.900	5037.000	T 82.630%
%RSD		T 1.497	0.739	T 0.686
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		85.031%	0.075	2.541
%RSD		0.289	51.940	2.082
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.321	T 154.400	21.060
%RSD		31.380	T 0.308	9.115
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		8.515	22.460	81.190
%RSD		0.362	2.641	0.331
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.700	90.160%	2.900
%RSD		1.160	1.088	4.214
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.278	5.417	0.001
%RSD		24.480	5.013	2288.000
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.029	-2.819
%RSD		0.000	10.050	73.160
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.232	91.051%	-0.005
%RSD		6.361	1.086	220.000
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		3.506	0.000	0.000
%RSD		7.323	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.311	0.132	103.003%
%RSD		4.109	3.969	0.747

LWAX6C 3/16/2010 08:16:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.491%	84.060	T 10060.000
%RSD		1.873	2.878	T 0.697
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10090.000	M 9677.000	T 0.000
%RSD		2.082	M 0.755	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9569.000	10530.000	T 87.581%
%RSD		T 0.924	0.790	T 1.020
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		87.308%	95.370	97.980
%RSD		0.525	0.447	0.479
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.694	94.720	T 9945.000
%RSD		16.420	1.238	T 1.462
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		99.230	100.900	101.700
%RSD		0.766	0.891	0.569
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		95.520	83.287%	85.280
%RSD		1.637	1.627	1.960
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.016	76.850	97.830
%RSD		289.700	1.317	1.577
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	99.200	62.200
%RSD		0.000	1.111	62.680
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		90.770	93.124%	89.030
%RSD		0.935	1.281	0.977
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		91.910	0.000	0.000
%RSD		0.436	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		95.040	93.570	101.656%
%RSD		0.624	1.032	0.647

LWKETB 3/16/2010 08:23:27 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		99.079%	-0.001	83.910
%RSD		0.480	100.500	0.405
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		146.300	9.211	0.000
%RSD		3.091	9.726	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		121.500	211.700	T 87.419%
%RSD		0.342	1.268	T 0.891
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		90.227%	-0.049	1.849
%RSD		0.646	455.500	6.470
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.008	0.733	43.210
%RSD		3093.000	2.038	2.927
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.012	0.740	0.562
%RSD		128.500	13.050	15.390
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		1.178	92.147%	0.019
%RSD		10.470	0.481	819.200
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.201	0.080	0.263
%RSD		7.770	41.470	11.990
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.018	0.129
%RSD		0.000	10.150	645.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.011	95.852%	0.065
%RSD		62.050	1.308	6.508
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.701	0.000	0.000
%RSD		10.530	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.136	0.079	106.477%
%RSD		7.236	6.850	0.125

LWKETC 3/16/2010 08:28:11 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		94.004%	96.720	T 10200.000
%RSD		1.127	0.876	T 1.185
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10550.000	M 10250.000	0.000
%RSD		2.703	M 0.859	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9958.000	10850.000	T 84.636%
%RSD		T 0.712	0.730	T 0.506
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		85.803%	99.170	100.600
%RSD		1.590	0.767	0.795
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.457	98.440	T 10350.000
%RSD		12.180	0.308	T 0.659
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		102.100	104.400	105.900
%RSD		0.654	1.841	1.415
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		110.700	85.389%	98.730
%RSD		1.043	0.816	1.028
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.134	98.550	100.400
%RSD		23.560	0.359	0.661
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	104.700	31.450
%RSD		0.000	0.533	81.180
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		102.000	92.937%	99.450
%RSD		0.611	0.627	0.772
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		93.010	0.000	0.000
%RSD		1.362	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		94.700	94.680	101.983%
%RSD		0.606	1.149	0.656

LWH48F/10 3/16/2010 08:35:03 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		95.723%	-0.037	T 19640.000
%RSD		1.350	2.360	T 2.511
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		9326.000	8.103	0.000
%RSD		1.737	17.430	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 37530.000	4623.000	T 89.477%
%RSD		T 0.924	1.129	T 0.546
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.224%	0.435	1.368
%RSD		1.687	8.043	2.264
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.037	5.482	-14.090
%RSD		171.100	0.616	5.444
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.030	0.468	0.025
%RSD		36.280	4.522	105.600
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-2.064	92.175%	0.876
%RSD		14.420	0.485	1.971
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.070	-0.045	0.288
%RSD		16.380	346.900	10.000
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.035	-0.021
%RSD		0.000	11.710	3976.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.030	94.708%	0.056
%RSD		14.450	0.700	32.550
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		5.563	0.000	0.000
%RSD		1.406	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.175	0.012	102.819%
%RSD		5.083	30.260	0.081

LWHT7B 3/16/2010 08:40:35 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		105.019%	-0.036	84.430
%RSD		0.802	5.679	0.179
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		26.070	0.784	T 0.000
%RSD		42.010	299.500	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		15.140	164.900	T 89.182%
%RSD		11.750	2.215	T 0.258
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.427%	0.023	0.147
%RSD		0.594	971.900	18.780
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.435	0.331	27.420
%RSD		9.854	1.813	3.279
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		-0.024	0.364	0.954
%RSD		25.510	31.140	5.921
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		2.757	90.781%	0.183
%RSD		4.416	0.832	25.790
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.157	-0.041	0.023
%RSD		26.370	172.600	151.100
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.038	-0.811
%RSD		0.000	2.950	0.036
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.025	95.494%	-0.021
%RSD		17.040	0.203	38.570
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.749	0.000	0.000
%RSD		6.382	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.150	0.107	105.273%
%RSD		8.497	4.334	0.506

LWHT7C 3/16/2010 08:45:17 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.550%	84.920	T 10090.000
%RSD		0.994	1.972	T 0.284
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10270.000	M 9862.000	T 0.000
%RSD		1.804	M 0.120	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9665.000	10600.000	T 86.439%
%RSD		T 1.040	0.576	T 0.330
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		87.433%	95.750	98.250
%RSD		0.534	0.866	0.163
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.832	94.860	T 10300.000
%RSD		2.722	0.233	T 0.225
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.300	102.600	105.000
%RSD		0.283	0.624	0.375
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		101.400	82.573%	86.390
%RSD		1.740	0.171	0.720
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.077	78.570	100.600
%RSD		45.620	0.912	0.236
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	90.500	33.760
%RSD		0.000	0.891	104.600
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		91.570	92.506%	89.780
%RSD		0.921	1.132	0.477
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		92.820	0.000	0.000
%RSD		0.831	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		95.310	95.040	99.960%
%RSD		1.074	0.189	1.465

CCV 3/16/2010 08:52:07 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.239%	97.564%	T 101.964%
%RSD		0.954	2.184	T 0.957
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		103.480%	104.000%	0.000
%RSD		0.760	3.189	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 101.647%	104.348%	T 84.361%
%RSD		T 0.821	0.149	T 0.815
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		85.802%	99.856%	102.046%
%RSD		1.595	0.324	1.043
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.210	T 101.068%	T 103.380%
%RSD		10.240	T 0.206	T 1.183
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		102.297%	103.763%	104.747%
%RSD		0.462	0.616	0.215
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		104.695%	83.603%	101.189%
%RSD		1.276	1.358	1.709
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.193	99.957%	106.017%
%RSD		50.380	2.178	2.311
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	104.484%	38.000
%RSD		0.000	1.047	177.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		103.912%	88.646%	102.576%
%RSD		1.043	0.573	0.381
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.725%	0.000	0.000
%RSD		1.027	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.670%	99.254%	95.073%
%RSD		0.889	1.342	0.463

CCB 3/16/2010 08:58:58 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.274%	0.014	6.331
%RSD		0.711	43.190	16.800
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10.960	2.612	0.000
%RSD		27.930	69.390	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		6.218	11.780	T 81.364%
%RSD		6.167	16.220	T 0.523
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		84.556%	0.120	0.086
%RSD		0.418	102.600	31.120
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.215	0.054	11.470
%RSD		75.480	20.940	7.855
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.063	0.082	0.087
%RSD		38.550	82.920	27.590
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.051	85.615%	0.183
%RSD		258.600	0.273	55.920
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.004	-0.031	0.106
%RSD		513.700	325.200	7.325
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.055	1.025
%RSD		0.000	28.600	117.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.055	90.630%	0.044
%RSD		24.360	0.138	9.647
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.066	0.000	0.000
%RSD		35.540	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.252	0.051	102.955%
%RSD		3.565	10.210	0.468

STD2/CCV STD 0B97 ICSA STD 0C123 CRI STD 0B98
STD3 STD 0B59 ICSAB STD 0B99 DIL BLK 0MR121
STD4 STD 0B60 ICV STD 0B61
QSMURI 0A40

Test America North Canton ICP/MS Data Review Checklist

Run/Project Information:

Run Date: 3-19-10 Analyst: KLL Instrument: I8
Prep Batches Run: See Run Log

Circle Methods used: 6020/ 200.8: CORP-MT-0001NC

Review Items

A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
2. Performance check within recommended specfications? (Be>8000cps) (In >300,000 cps) (Pb >100,000 cps) (Co>100000cps) (Mg>10000cps) (CeO/Ce ≤ 0.03) (Ba++/Ba+ ≤ 0.03)(Background < 30cps @ Mass 220) CCT Performance Check (In>75000cps) (Se<20 cps)	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? Correlation coefficient ≥ .995 ?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? *(ICV: = 90 – 110%) (CCV: 90 – 110%, 200.8 = 85 -115%)*	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%)?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed ?	✓			✓
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time ?	✓			✓
D. Preparation/Matrix QC				✓
1. LCS done per prep batch and within QC limits ?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits ?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits ?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
E. Other				✓
1. Are all nonconformances documented appropriately ?	✓			✓
2. Current IDL/LR data on file ?	✓			✓
3. Calculations checked for error ?	✓			✓
4. Transcriptions checked for error ?	✓			✓
5. All client/project specific requirements met ?	✓			✓
6. Date/time of analysis verified as correct ?	✓			✓

Level I Analyst: Kara R Coutts Date: 3-22-10 Time: 7:28 - 21:41
Level I Analyst: Date: Time:

Level II Reviewer: Date: 3.22.10 Time: 7:28 - 21:41
Level II Reviewer: Date: Time:

Comments:

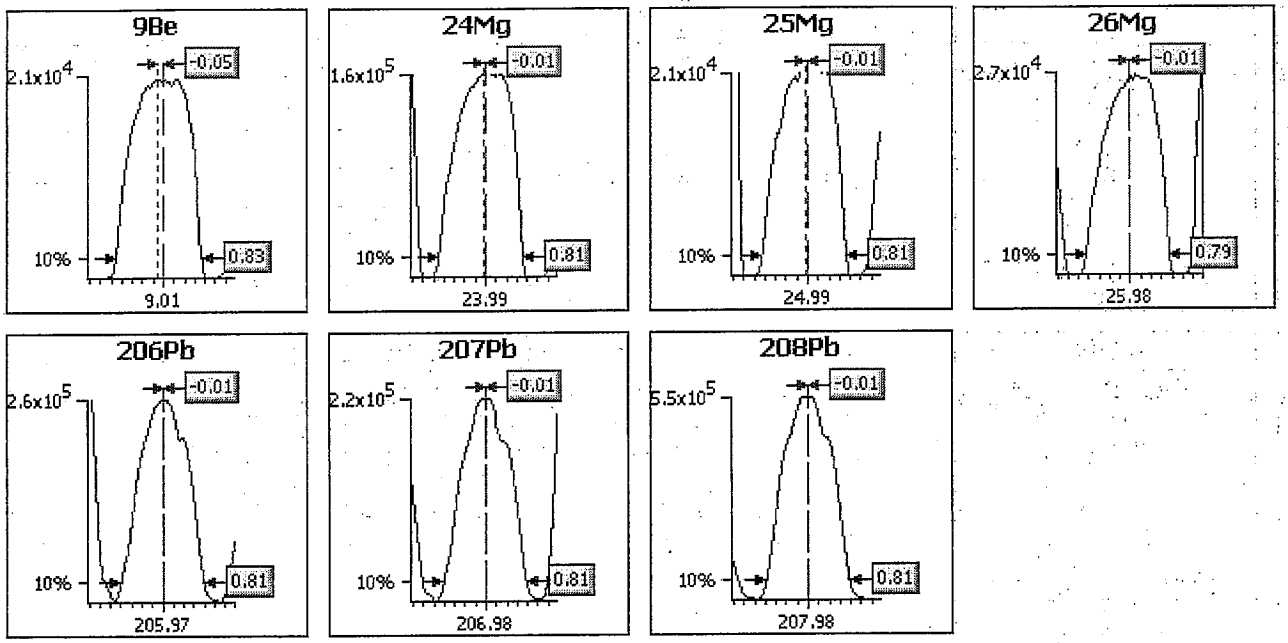
N:/Metals/ICPMS /Data Review Checklist
Rev. 1, 09/21/2007

Performance Report

Sample details
Acquired at : 3/19/2010 07:16:23
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Mass Calibration verification

Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 10% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.83	-0.05
24Mg	0.85	0.65	0.10	0.81	-0.01
25Mg	0.85	0.65	0.10	0.81	-0.01
26Mg	0.85	0.65	0.10	0.79	-0.01
206Pb	0.85	0.65	0.10	0.81	-0.01
207Pb	0.85	0.65	0.10	0.81	-0.01
208Pb	0.85	0.65	0.10	0.81	-0.01

Sample details
Acquired at : 3/19/2010 07:16:23
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Tune conditions

Major	
Extraction	-121.6
Lens 1	-1224
Lens 2	-80.0
Focus	12.5
D1	-46.3
D2	-140
Pole Bias	0.1
Hexapole Bias	-4.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	69
Vertical	362
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1529
PC Detector	3176

Add. Gases	
He_H2	0.00
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	137Ba++	101Bkg	115In
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0	10.0
Limits	%RSD	-	5.0%	-	5.0%	-	5.0%	-	-	5.0%
	Countrate	-	>8000	>10000	>10000	>10000	>100000	-	-	>300000
1	07:16:58	0.000	20913.113	162340.13	22041.232	26597.873	252911.14	1271.160	2.667	717916.11
2	07:17:16	0.000	20809.650	161226.06	21717.474	25830.000	248857.47	1316.719	4.000	715543.97
3	07:17:33	0.000	20839.687	159580.34	21206.817	25813.308	248059.03	1191.154	3.333	716963.04
4	07:17:51	0.000	20512.615	154640.77	21313.619	25005.411	251449.27	1295.606	5.667	720340.77
5	07:18:09	0.000	21046.614	152006.70	20125.477	24270.993	253273.24	1280.049	4.667	723245.95
x		0.000	20824.336	157958.80	21280.924	25503.517	250910.03	1270.937	4.067	718801.97
σ		0.00	196.79	4442.33	726.34	889.86	2356.97	47.84	1.16	3037.18
%RSD		0.000	0.945	2.812	3.413	3.489	0.939	3.764	28.630	0.423

Run	Time	137Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	-	-	-	-	-	5.0%	-
	Countrate	-	-	-	>100000	>100000	>100000	<30
1	07:16:58	85049.785	713231.27	17361.260	272784.22	227174.43	564845.35	0.000
2	07:17:16	84044.706	712414.07	15899.803	271158.00	227539.36	564228.30	0.000
3	07:17:33	84195.464	707476.97	16351.350	273583.83	227042.66	567458.58	0.000
4	07:17:51	84399.827	712660.97	14708.710	272801.16	223596.54	565469.32	0.000
5	07:18:09	84403.177	711263.11	16394.726	272167.59	224400.57	558193.45	0.333
x		84418.592	711409.28	16143.170	272498.96	225950.71	564039.00	0.067
σ		383.59	2311.95	962.71	902.44	1813.75	3485.54	0.15
%RSD		0.454	0.325	5.964	0.331	0.803	0.618	223.607

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0300
1	07:16:58	0.015	0.024
2	07:17:16	0.016	0.022
3	07:17:33	0.014	0.023
4	07:17:51	0.015	0.021
5	07:18:09	0.015	0.023
x		0.0151	0.0227
σ		0.00	0.00
%RSD		3.8006	5.9859

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 3/19/2010 07:21:08
Report name : CCT MODE PERF REPORT [5/14/2008 11:21:44]

Tune conditions

Major	
Extraction	-105.9
Lens 1	-1200
Lens 2	-80.0
Focus	1.8
D1	-51.0
D2	-140
Pole Bias	-14.0
Hexapole Bias	-17.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	62
Vertical	362
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1529
PC Detector	3176

Add. Gases	
He_H2	2.20
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	78Se	115In
Dwell (mSecs)		500.0	10.0
Limits	%RSD	-	5.0%
	Countrate	<20	>75000
1	07:21:09	11.200	93139.524
2	07:21:27	9.000	93752.949
3	07:21:44	13.333	94694.918
4	07:22:02	10.933	95362.039
5	07:22:20	11.600	93729.484
x		11.213	94135.783
σ		1.55	883.25
%RSD		13.831	0.938

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA NORTH CANTON_QSM 3.0.tet
Created By User	martin.nash
Analyte Database	TA NORTH CANTON MULTIMODE.tea
Creation Timestamp	10/10/2007 09:08:48
Last Edited By	Upload
Last Edit Timestamp	3/19/2010 07:26:28
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

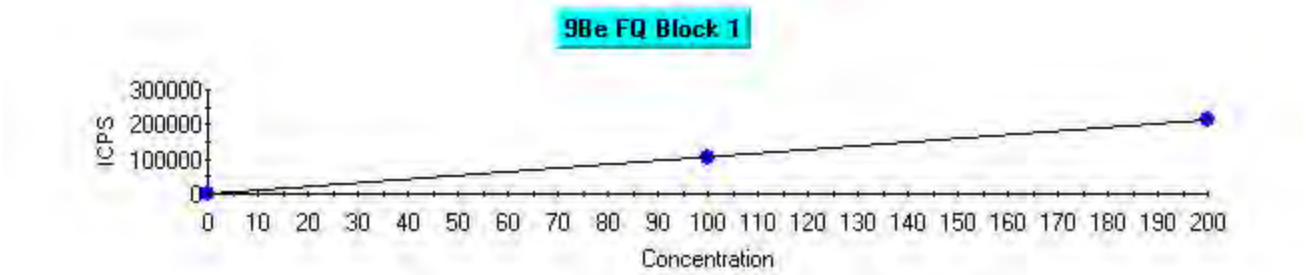
Column headings
- No flag
- Semi Quant
- Standard Addition
- Multi Element

Result cells
- Internal Standard
- Excluded
- QC Warning
- QC Failure

Transient TRA only:
- Peak Not Found
- Manually Edited
- Merged Peak

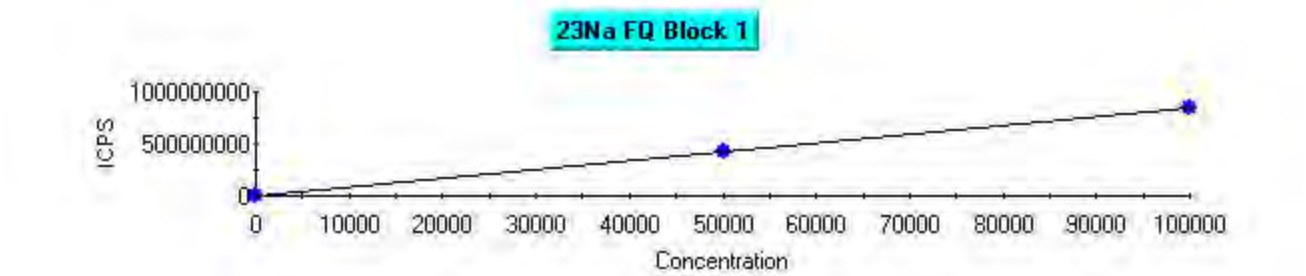
Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Fully Quant Calibration



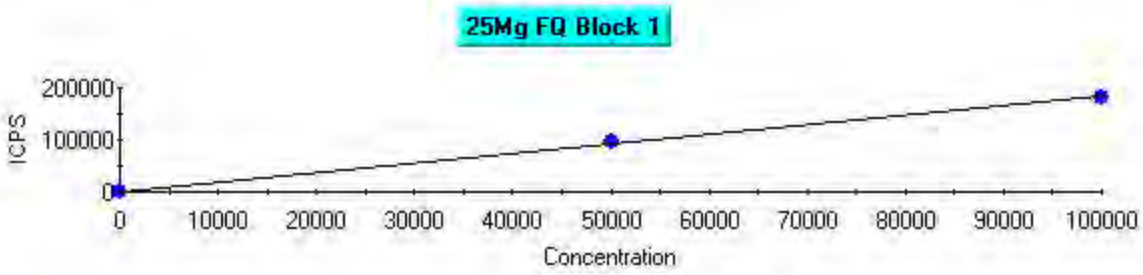
Intercept CPS=65.991331 Intercept Conc=0.061771
Sensitivity=1068.328533 Correlation Coeff=0.999991

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	65.99	0.00
STD2	100.000	99.404	0.596	106262.49	0.60
STD3	200.000	200.298	0.298	214049.88	0.15



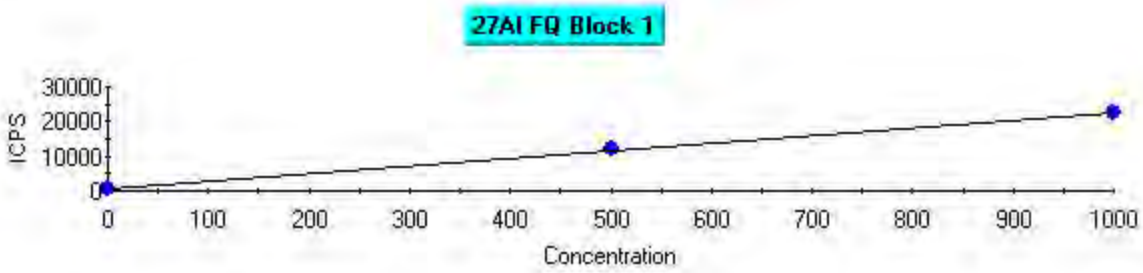
Intercept CPS=420053.087962 Intercept Conc=49.599499
Sensitivity=8468.897751 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	420053.09	0.00
STD2	50000.000	50118.557	118.557	424868984.42	0.24
STD3	100000.000	99940.722	59.278	846807806.27	0.06



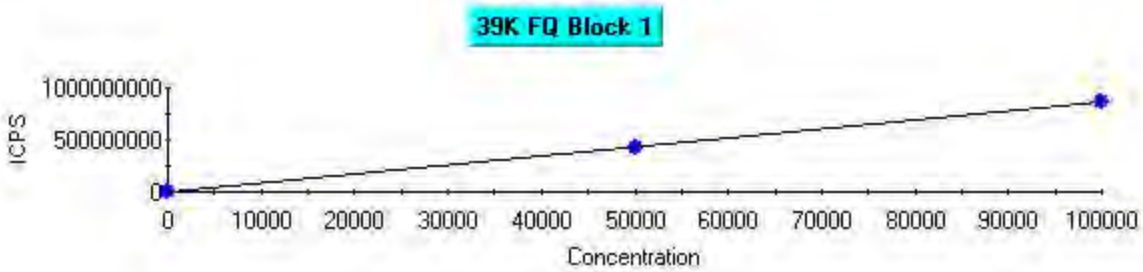
Intercept CPS=52.194338 Intercept Conc=28.407882
Sensitivity=1.837319 Correlation Coeff=0.999750

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	52.19	0.00
STD2	50000.000	51538.013	1538.013	94743.96	3.08
STD3	100000.000	99230.993	769.007	182371.17	0.77



Intercept CPS=420.293526 Intercept Conc=18.802820
Sensitivity=22.352686 Correlation Coeff=0.999662

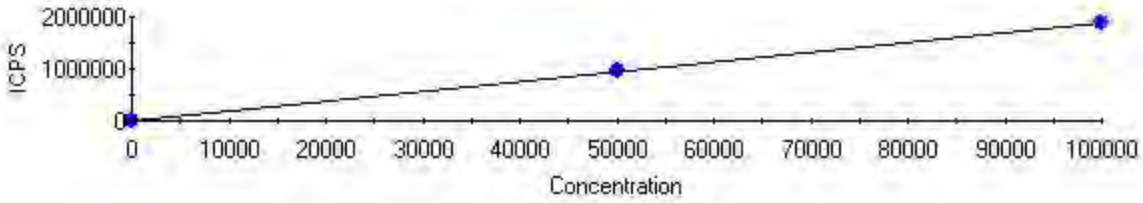
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	420.29	0.00
STD2	500.000	517.852	17.852	11995.67	3.57
STD3	1000.000	991.074	8.926	22573.47	0.89



Intercept CPS=615003.486086 Intercept Conc=71.274511
Sensitivity=8628.659546 Correlation Coeff=0.999963

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	615003.49	0.00
STD2	50000.000	49398.462	601.538	426857510.40	1.20
STD3	100000.000	100300.769	300.769	866076193.29	0.30

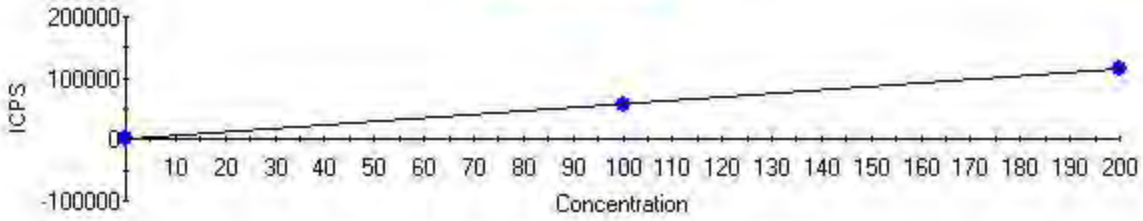
43Ca FQ Block 1



Intercept CPS=2276.772976 Intercept Conc=119.971013
Sensitivity=18.977692 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	2276.77	0.00
STD2	50000.000	49939.610	60.390	950015.32	0.12
STD3	100000.000	100030.195	30.195	1900619.05	0.03

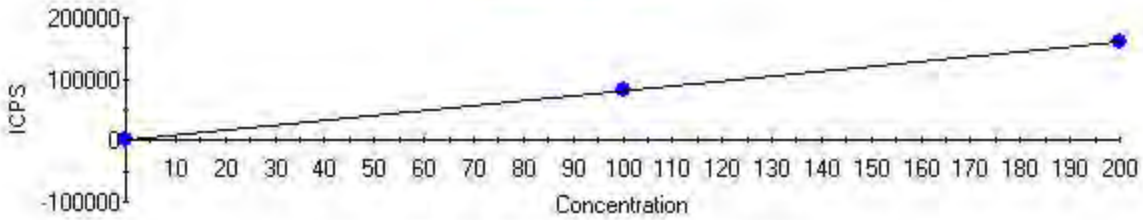
51V FQ Block 1



Intercept CPS=-144.325825 Intercept Conc=-0.248911
Sensitivity=579.829077 Correlation Coeff=1.000000

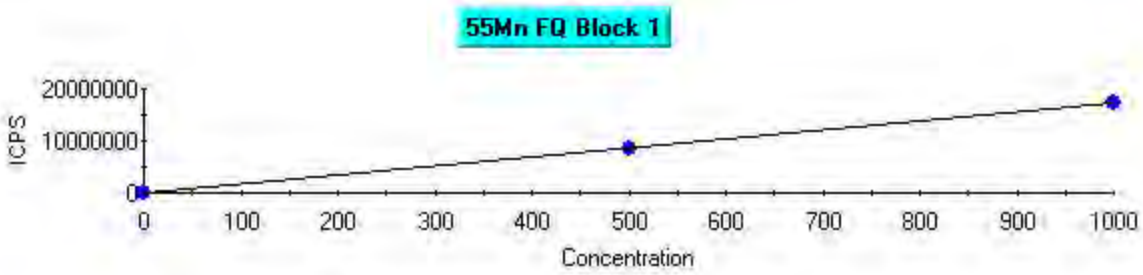
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-144.33	0.00
STD2	100.000	100.102	0.102	57897.78	0.10
STD3	200.000	199.949	0.051	115791.89	0.03

52Cr FQ Block 1



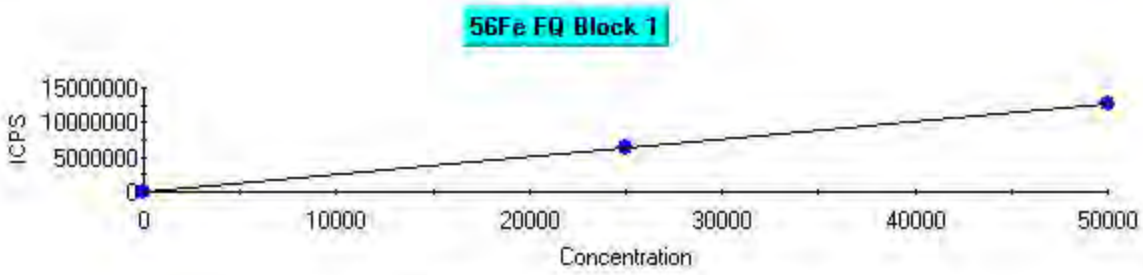
Intercept CPS=-274.301065 Intercept Conc=-0.337118
Sensitivity=813.665803 Correlation Coeff=0.999981

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-274.30	0.00
STD2	100.000	100.844	0.844	81779.06	0.84
STD3	200.000	199.578	0.422	162115.47	0.21



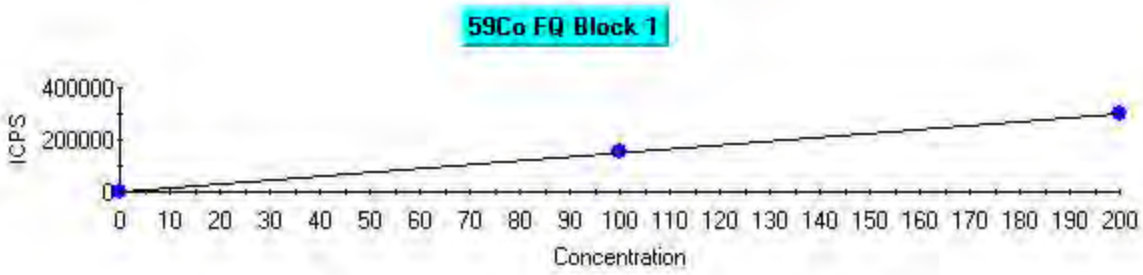
Intercept CPS=9178.259483 Intercept Conc=0.534207
Sensitivity=17181.080726 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	9178.26	0.00
STD2	500.000	501.166	1.166	8619756.51	0.23
STD3	1000.000	999.417	0.583	17180240.04	0.06



Intercept CPS=5611.580507 Intercept Conc=22.100935
Sensitivity=253.906925 Correlation Coeff=0.999961

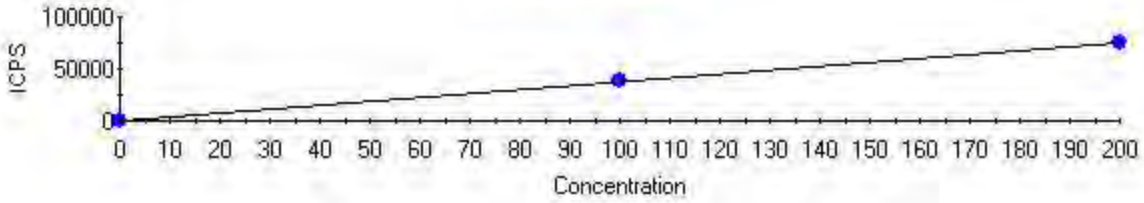
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	5611.58	0.00
STD2	25000.000	25303.595	303.595	6430369.55	1.21
STD3	50000.000	49848.203	151.797	12662415.41	0.30



Intercept CPS=68.885090 Intercept Conc=0.045701
Sensitivity=1507.310177 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	68.89	0.00
STD2	100.000	100.708	0.708	151866.34	0.71
STD3	200.000	199.646	0.354	300997.70	0.18

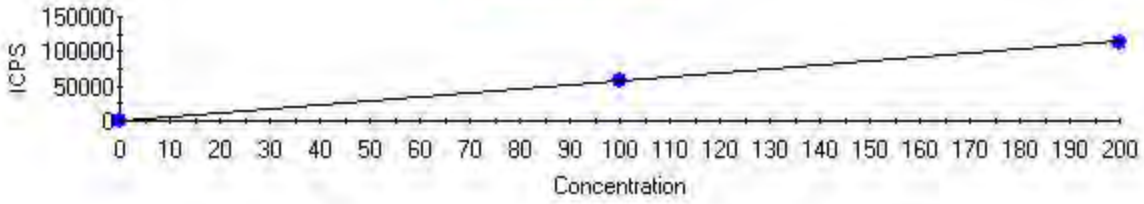
60Ni FQ Block 1



Intercept CPS=57.864567 Intercept Conc=0.153752
Sensitivity=376.349795 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	57.86	0.00
STD2	100.000	100.747	0.747	37974.08	0.75
STD3	200.000	199.626	0.374	75187.20	0.19

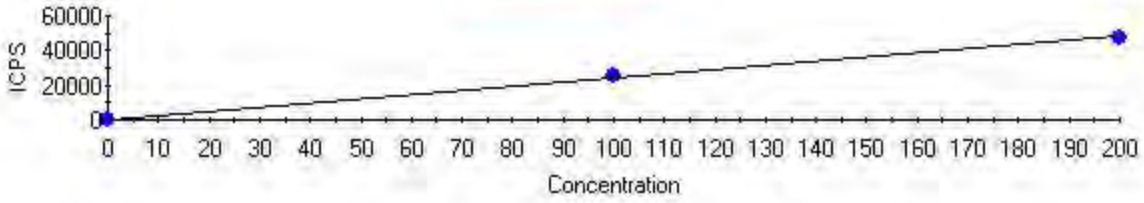
65Cu FQ Block 1



Intercept CPS=142.121631 Intercept Conc=0.248990
Sensitivity=570.791642 Correlation Coeff=0.999817

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	142.12	0.00
STD2	100.000	102.634	2.634	58724.70	2.63
STD3	200.000	198.683	1.317	113548.74	0.66

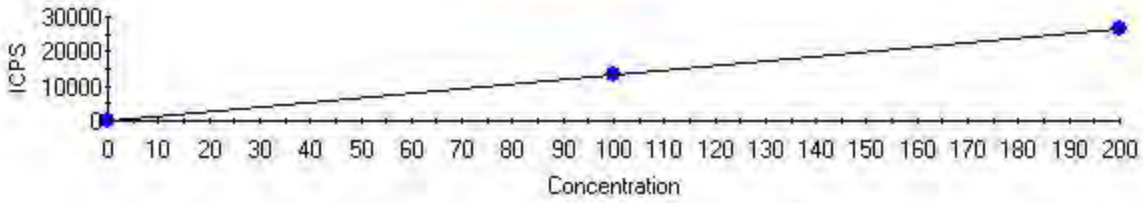
66Zn FQ Block 1



Intercept CPS=514.742708 Intercept Conc=2.169914
Sensitivity=237.217990 Correlation Coeff=0.999796

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	514.74	0.00
STD2	100.000	102.780	2.780	24896.00	2.78
STD3	200.000	198.610	1.390	47628.61	0.69

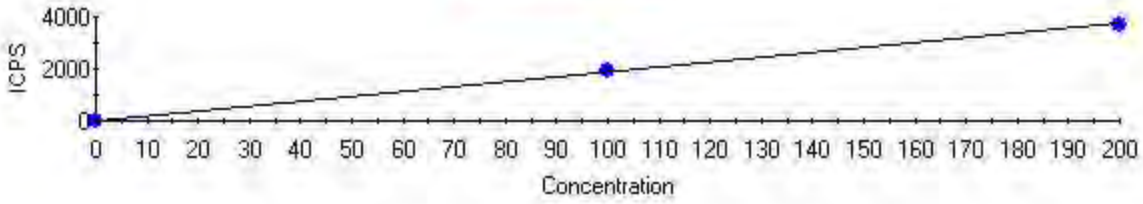
75As FQ Block 1



Intercept CPS=135.589214 Intercept Conc=1.026159
Sensitivity=132.132782 Correlation Coeff=0.999942

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	135.59	0.00
STD2	100.000	101.492	1.492	13545.96	1.49
STD3	200.000	199.254	0.746	26463.60	0.37

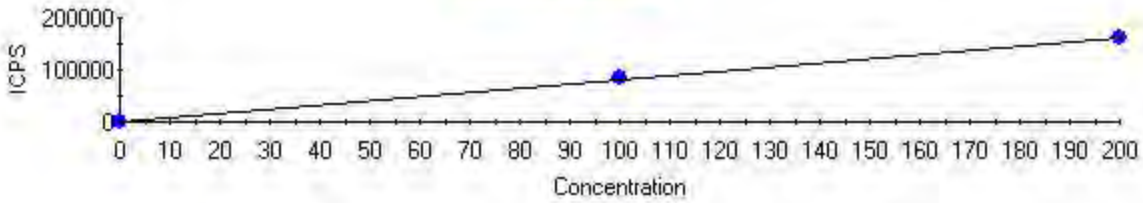
78Se FQ Block 1



Intercept CPS=5.323664 Intercept Conc=0.284638
Sensitivity=18.703272 Correlation Coeff=0.999558

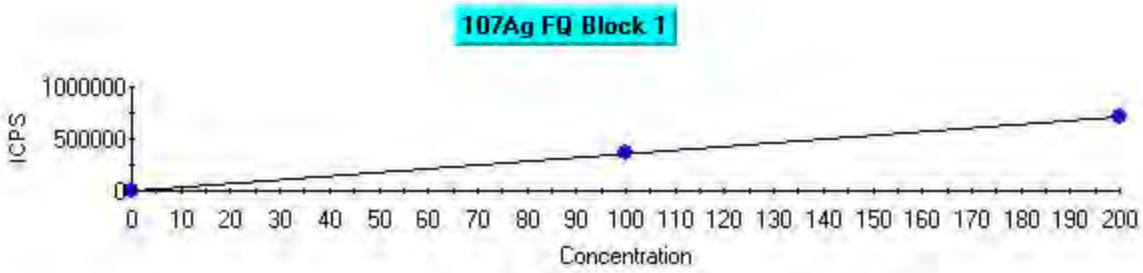
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	5.32	0.00
STD2	100.000	104.079	4.079	1951.94	4.08
STD3	200.000	197.961	2.039	3707.83	1.02

95Mo FQ Block 1



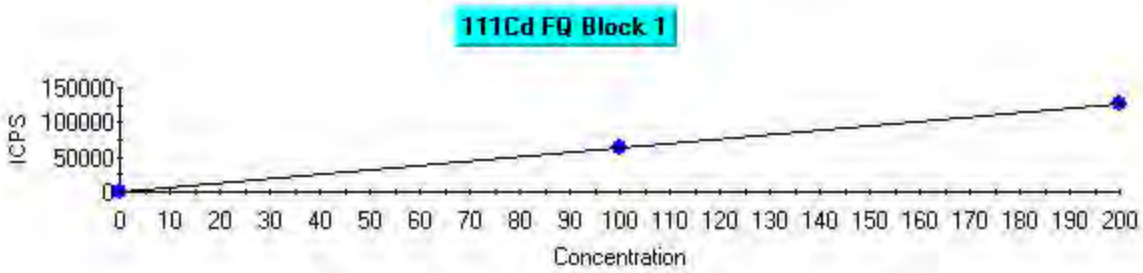
Intercept CPS=66.702676 Intercept Conc=0.082419
Sensitivity=809.310463 Correlation Coeff=0.999339

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	66.70	0.00
STD2	100.000	104.979	4.979	85027.40	4.98
STD4	200.000	197.510	2.490	159913.97	1.24



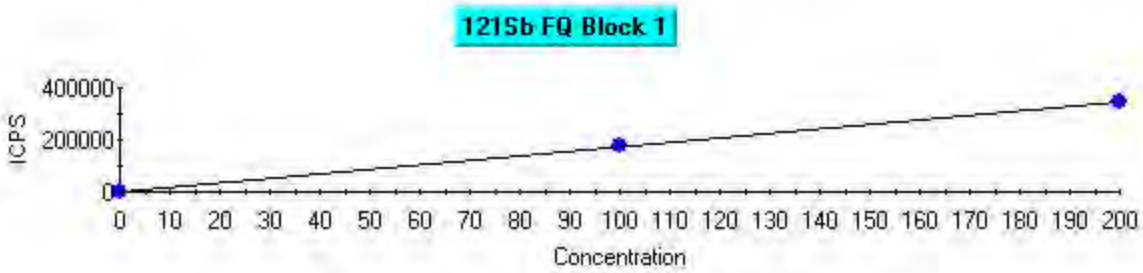
Intercept CPS=193.397499 Intercept Conc=0.054672
Sensitivity=3537.389166 Correlation Coeff=0.999849

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	193.40	0.00
STD2	100.000	102.392	2.392	362393.87	2.39
STD3	200.000	198.804	1.196	703440.45	0.60



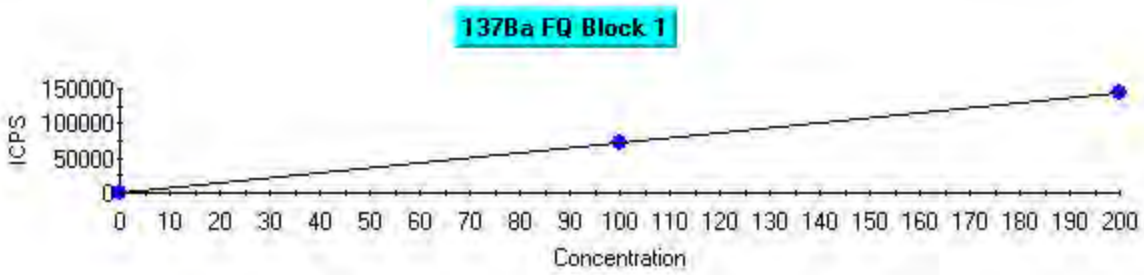
Intercept CPS=31.087249 Intercept Conc=0.049204
Sensitivity=631.804259 Correlation Coeff=0.999902

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	31.09	0.00
STD2	100.000	101.935	1.935	64434.09	1.94
STD3	200.000	199.032	0.968	125780.65	0.48



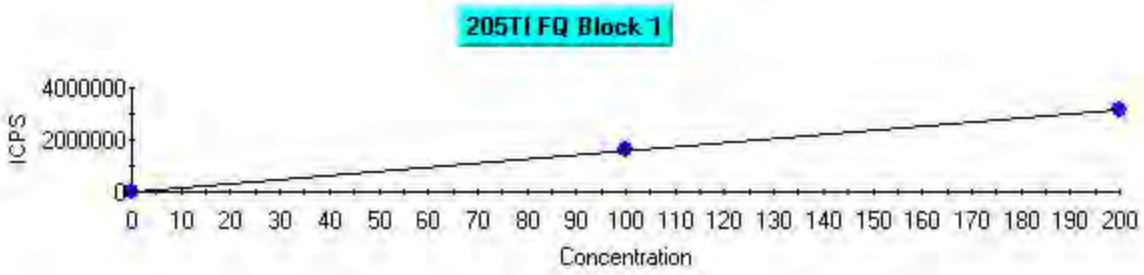
Intercept CPS=97.748462 Intercept Conc=0.056720
Sensitivity=1723.345283 Correlation Coeff=0.999940

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	97.75	0.00
STD2	100.000	101.516	1.516	175045.55	1.52
STD4	200.000	199.242	0.758	343460.17	0.38



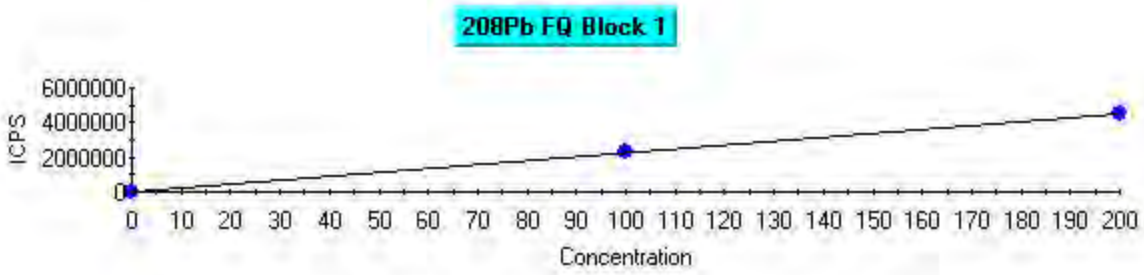
Intercept CPS=131.120443 Intercept Conc=0.180535
Sensitivity=726.287910 Correlation Coeff=0.999995

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	131.12	0.00
STD2	100.000	100.449	0.449	73086.33	0.45
STD3	200.000	199.775	0.225	145225.49	0.11



Intercept CPS=924.480320 Intercept Conc=0.058201
Sensitivity=15884.231145 Correlation Coeff=0.999993

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	924.48	0.00
STD2	100.000	99.487	0.513	1581205.61	0.51
STD3	200.000	200.256	0.256	3181841.70	0.13



Intercept CPS=2125.561009 Intercept Conc=0.093451
Sensitivity=22745.188045 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	2125.56	0.00
STD2	100.000	99.867	0.133	2273622.76	0.13
STD3	200.000	200.066	0.066	4552673.97	0.03

Dilution Corrected Concentrations

STD1 3/19/2010 07:28:04

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.000%	-0.000	0.000
%RSD		2.619	0.000	0.000
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		-0.000	-0.000	T 100.000%
%RSD		0.000	0.000	T 1.721
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		100.000%	0.000	0.000
%RSD		0.705	0.000	0.000
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		-0.000	0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		0.000	100.000%	0.000
%RSD		0.000	1.453	0.000
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.000	100.000%	0.000
%RSD		0.000	0.273	0.000
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		-0.000	0.000	100.000%
%RSD		0.000	0.000	0.187

STD2 3/19/2010 07:32:39

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		95.855%	99.400	T 50120.000
%RSD		1.501	1.383	T 1.933
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		51540.000	517.900	0.000
%RSD		0.485	3.004	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 49400.000	49940.000	T 100.860%
%RSD		T 0.765	0.425	T 0.654
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		100.365%	100.100	100.800
%RSD		1.449	0.397	0.568
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.530	T 501.200	T 25300.000
%RSD		16.830	T 1.336	T 1.498
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.700	100.700	102.600
%RSD		0.447	1.506	0.974
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.800	97.011%	101.500
%RSD		0.398	1.713	0.580
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.390	104.100	105.000
%RSD		46.890	1.284	1.327
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	102.400	59.070
%RSD		0.000	0.674	84.980
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.900	98.723%	101.500
%RSD		0.908	1.726	0.749
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		100.400	0.000	0.000
%RSD		2.446	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.490	99.870	94.526%
%RSD		0.917	0.226	1.870

STD3 3/19/2010 07:39:30

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.484%	M 200.300	TM 99940.000
%RSD		1.064	M 0.643	TM 0.922
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 99230.000	M 991.100	0.000
%RSD		M 0.845	M 1.120	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		TM 100300.000	M 100000.000	T 104.191%
%RSD		TM 1.229	M 1.270	T 2.025
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		104.803%	M 199.900	M 199.600
%RSD		0.108	M 1.448	M 0.703
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		10.090	TM 999.400	TM 49850.000
%RSD		18.040	TM 0.861	TM 1.380
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		M 199.600	M 199.600	M 198.700
%RSD		M 0.598	M 0.716	M 1.205
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 198.600	100.323%	M 199.300
%RSD		M 1.225	1.948	M 0.917
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.511	M 198.000	0.192
%RSD		36.050	M 1.238	9.885
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	M 198.800	72.250
%RSD		0.000	M 1.303	104.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		M 199.000	101.915%	0.077
%RSD		M 0.526	2.277	12.970
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 199.800	0.000	0.000
%RSD		M 0.509	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		M 200.300	M 200.100	93.341%
%RSD		M 0.670	M 0.650	0.759

STD4 3/19/2010 07:46:21

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		101.622%	0.059	27.680
%RSD		1.799	13.000	6.077
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		64.850	-5.628	0.000
%RSD		31.250	31.600	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		37.250	-14.010	T 99.381%
%RSD		5.020	40.850	T 0.600
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		99.157%	0.311	0.132
%RSD		0.875	19.120	12.990
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.305	0.297	30.170
%RSD		21.910	3.535	30.140
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.214	0.258	0.552
%RSD		34.360	12.090	17.290
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		0.193	102.953%	0.068
%RSD		61.760	1.369	125.000
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.054	0.177	197.500
%RSD		40.940	67.470	0.347
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.132	6.468
%RSD		0.000	25.680	34.700
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.126	102.077%	M 199.200
%RSD		9.514	0.824	M 0.623
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.107	0.000	0.000
%RSD		48.300	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.408	0.163	107.613%
%RSD		1.070	22.730	0.865

ICV 3/19/2010 07:52:14 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.610%	100.986%	T 103.947%
%RSD		2.870	3.494	T 1.879
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		102.612%	101.229%	0.000
%RSD		1.311	1.757	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 100.782%	102.990%	T 97.557%
%RSD		T 0.336	0.638	T 0.328
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		97.598%	100.193%	101.820%
%RSD		0.253	1.285	0.754
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.744	T 101.673%	T 99.016%
%RSD		8.174	T 0.475	T 1.184
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		101.878%	102.620%	102.538%
%RSD		1.101	0.623	1.109
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		105.419%	94.154%	99.160%
%RSD		1.582	2.086	1.213
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.176	105.913%	103.557%
%RSD		140.200	1.734	0.729
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	104.043%	26.630
%RSD		0.000	1.299	157.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.910%	98.173%	101.462%
%RSD		0.706	0.693	1.557
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.470%	0.000	0.000
%RSD		1.919	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.497%	96.784%	98.843%
%RSD		1.046	0.851	1.252

ICB 3/19/2010 07:59:06 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		98.985%	-0.006	3.047
%RSD		2.163	2.529	34.710
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		-4.422	-1.202	0.000
%RSD		62.550	107.800	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		3.149	8.510	T 96.525%
%RSD		49.420	24.010	T 0.838
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		95.776%	-0.022	-0.044
%RSD		1.188	348.600	68.170
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.039	0.020	-0.098
%RSD		408.700	30.720	1103.000
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		-0.002	-0.035	0.043
%RSD		346.500	43.700	64.430
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		-0.251	97.223%	0.041
%RSD		34.390	1.323	127.500
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.007	-0.001	0.175
%RSD		380.500	6131.000	19.010
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	-0.011	-0.307
%RSD		0.000	130.900	683.900
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		-0.009	100.020%	0.008
%RSD		187.000	0.359	77.860
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		-0.013	0.000	0.000
%RSD		157.500	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.212	0.012	105.765%
%RSD		10.580	41.350	1.036

CRI 3/19/2010 08:03:43 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		94.232%	100.269%	T 102.409%
%RSD		3.341	1.404	T 0.933
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.686%	84.257%	0.000
%RSD		5.004	5.421	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 98.300%	98.551%	T 95.462%
%RSD		T 1.007	0.921	T 1.318
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		97.191%	102.876%	101.451%
%RSD		1.890	5.377	5.891
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.072	75.332%	78.558%
%RSD		326.300	3.094	1.225
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		104.219%	103.219%	102.358%
%RSD		0.400	9.369	3.166
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		117.775%	95.093%	93.517%
%RSD		1.656	0.568	8.976
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.019	107.289%	101.584%
%RSD		273.300	13.620	1.427
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	94.829%	-4.489
%RSD		0.000	7.037	92.420
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		90.181%	100.353%	101.650%
%RSD		10.200	0.661	7.977
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		90.716%	0.000	0.000
%RSD		6.408	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		104.664%	93.022%	105.599%
%RSD		1.782	2.223	0.823

CRIQ 3/19/2010 08:08:26 QC Status: FAIL (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		98.001%	91.841%	┬ 97.155%
%RSD		3.405	1.807	┬ 1.827
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		101.253%	76.886%	0.000
%RSD		3.444	5.386	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		┬ 96.956%	99.416%	┬ 94.559%
%RSD		┬ 1.496	1.709	┬ 0.424
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		97.380%	100.778%	97.001%
%RSD		0.327	0.913	3.147
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.113	98.025%	97.122%
%RSD		41.210	0.702	4.091
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		96.387%	107.469%	109.514%
%RSD		2.667	3.375	3.221
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		104.842%	94.368%	97.428%
%RSD		0.366	0.875	7.873
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.106	93.472%	98.049%
%RSD		33.770	7.463	5.231
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.065%	1.722
%RSD		0.000	0.741	329.200
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		102.339%	100.503%	95.002%
%RSD		1.414	0.818	1.927
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		93.535%	0.000	0.000
%RSD		3.645	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		93.907%	88.166%	105.343%
%RSD		0.582	1.797	0.623

CRIQ 3/19/2010 08:13:06 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		99.307%	92.110%	T 96.531%
%RSD		0.419	5.587	T 0.496
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		97.820%	82.945%	0.000
%RSD		5.035	8.746	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 95.036%	98.122%	T 95.107%
%RSD		T 0.508	0.737	T 0.283
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		97.664%	103.162%	98.079%
%RSD		1.303	6.267	4.746
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.053	96.235%	95.898%
%RSD		367.400	0.569	5.426
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		93.572%	103.908%	100.629%
%RSD		8.143	3.272	4.407
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		104.671%	94.991%	103.152%
%RSD		0.850	0.988	1.703
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.068	98.601%	99.196%
%RSD		81.320	5.735	6.547
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	100.754%	2.247
%RSD		0.000	7.683	186.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		94.255%	100.422%	100.178%
%RSD		4.071	0.536	2.286
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		91.366%	0.000	0.000
%RSD		5.261	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		94.687%	88.586%	105.164%
%RSD		1.488	1.710	0.702

ICSA 3/19/2010 08:17:56 QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.984%	-0.044	T 50920.000
%RSD		0.704	1.757	T 1.250
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		51590.000	M 51670.000	0.000
%RSD		1.197	M 0.623	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 49830.000	51790.000	T 94.050%
%RSD		T 0.970	0.367	T 0.740
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		96.541%	-0.048	0.536
%RSD		1.747	105.300	7.162
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		0.088	-0.319	T 49190.000
%RSD		201.100	2.375	T 1.287
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.041	0.353	0.045
%RSD		39.430	32.600	77.960
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		0.771	99.405%	0.055
%RSD		6.856	1.334	186.900
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.050	0.041	M 1006.000
%RSD		34.340	424.000	M 0.781
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.013	21.310
%RSD		0.000	76.190	22.450
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		-0.031	100.276%	0.075
%RSD		9.877	0.454	16.670
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		-0.021	0.000	0.000
%RSD		67.270	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.031	0.050	99.060%
%RSD		31.870	9.520	0.614

ICSAB 3/19/2010 08:22:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.002%	94.770%	T 102.282%
%RSD		2.463	1.825	T 0.584
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.427%	M 103.811%	0.000
%RSD		1.075	M 0.478	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 100.010%	102.436%	T 95.885%
%RSD		T 0.474	0.945	T 0.475
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		95.427%	99.419%	100.278%
%RSD		0.438	1.085	0.374
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.446	102.645%	TM 100.973%
%RSD		21.830	0.917	TM 1.220
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		96.816%	99.874%	97.404%
%RSD		1.158	0.981	0.688
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.016%	98.709%	94.269%
%RSD		1.243	0.463	0.954
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.348	95.388%	M 1130.000
%RSD		19.540	0.673	M 1.435
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	99.780%	42.760
%RSD		0.000	1.291	92.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		98.020%	99.830%	99.109%
%RSD		2.189	0.955	1.531
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.324%	0.000	0.000
%RSD		1.088	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.629%	96.593%	101.561%
%RSD		1.051	1.009	0.820

CCV 3/19/2010 08:29:27 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		94.587%	95.579%	T 105.085%
%RSD		2.080	3.247	T 0.961
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		102.867%	105.895%	0.000
%RSD		0.382	0.426	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 99.822%	101.253%	T 97.039%
%RSD		T 1.478	0.904	T 0.235
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.484%	100.275%	100.992%
%RSD		1.209	0.736	0.356
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.540	T 100.565%	T 99.268%
%RSD		33.300	T 0.709	T 0.760
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.605%	101.014%	101.962%
%RSD		0.289	0.857	0.555
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		104.941%	91.574%	100.245%
%RSD		1.162	0.282	1.063
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.418	102.841%	105.399%
%RSD		43.190	1.615	0.696
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.306%	61.380
%RSD		0.000	0.824	53.870
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		99.104%	97.983%	99.049%
%RSD		2.224	0.509	2.051
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.631%	0.000	0.000
%RSD		1.006	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.168%	96.317%	100.360%
%RSD		1.083	1.520	0.097

CCB 3/19/2010 08:36:16 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		94.805%	0.003	5.623
%RSD		1.584	375.200	29.360
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2.130	0.683	0.000
%RSD		302.900	278.000	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		4.645	13.640	T 90.732%
%RSD		36.920	24.250	T 0.576
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		93.179%	0.096	-0.011
%RSD		1.375	169.300	224.600
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.107	0.063	2.768
%RSD		217.600	19.320	12.040
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.006	0.070	0.027
%RSD		119.300	38.550	206.600
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.367	93.866%	-0.074
%RSD		63.920	0.588	49.410
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.023	-0.015	0.538
%RSD		183.900	116.200	14.560
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.002	-0.467
%RSD		0.000	289.900	116.600
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.006	98.556%	0.014
%RSD		176.400	0.588	113.400
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.026	0.000	0.000
%RSD		71.570	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.262	0.015	107.991%
%RSD		7.632	36.200	0.889

CCV 8 3/19/2010 16:42:15 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.926%	94.458%	T 109.799%
%RSD		2.692	2.680	T 2.472
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.113%	118.458%	0.000
%RSD		1.255	2.256	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 98.837%	98.406%	T 80.574%
%RSD		T 1.613	0.429	T 0.854
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.664%	97.185%	99.666%
%RSD		1.232	1.610	0.758
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.024	T 100.257%	T 100.927%
%RSD		22.630	T 1.344	T 0.597
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		99.352%	101.015%	101.162%
%RSD		1.095	1.435	1.578
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.271%	73.866%	96.810%
%RSD		2.076	0.549	0.744
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.427	97.064%	102.347%
%RSD		30.990	2.407	0.595
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	102.012%	119.900
%RSD		0.000	1.211	16.680
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.661%	80.920%	97.761%
%RSD		0.913	1.529	1.237
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.128%	0.000	0.000
%RSD		1.042	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.298%	95.765%	93.261%
%RSD		0.603	0.873	0.577

CCB 8 3/19/2010 16:49:07 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		78.368%	0.035	29.600
%RSD		0.924	4.503	6.382
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		66.100	50.020	0.000
%RSD		25.060	5.565	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		30.490	35.950	T 76.128%
%RSD		12.530	12.230	T 0.695
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		73.086%	0.425	0.188
%RSD		2.045	3.454	13.270
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.423	1.093	133.400
%RSD		18.190	13.000	8.720
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.144	0.259	0.268
%RSD		27.370	9.546	19.870
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.243	74.179%	0.140
%RSD		38.360	1.255	50.420
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.023	0.029	0.228
%RSD		185.600	580.300	28.920
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.099	-1.485
%RSD		0.000	14.390	189.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.113	82.240%	0.128
%RSD		41.780	0.329	14.290
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.322	0.000	0.000
%RSD		2.281	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.275	0.188	100.924%
%RSD		11.350	19.910	0.799

ICSA 3/19/2010 16:53:49 QC Status: FAIL (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		71.938%	-0.032	T 53000.000
%RSD		3.739	16.860	T 1.313
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		52590.000	M 51120.000	0.000
%RSD		1.556	M 1.618	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 52960.000	54150.000	T 67.347%
%RSD		T 4.420	5.765	T 5.196
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		69.851%	-0.003	0.613
%RSD		2.222	4858.000	7.456
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.135	-0.206	TM 49800.000
%RSD		56.190	12.540	TM 0.845
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.088	0.457	0.097
%RSD		21.610	29.540	18.940
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		1.313	72.721%	0.046
%RSD		4.907	2.016	118.700
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.079	-0.049	M 1019.000
%RSD		46.400	111.600	M 0.208
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.043	26.270
%RSD		0.000	1.977	29.610
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.003	78.882%	0.112
%RSD		1217.000	1.442	21.910
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.158	0.000	0.000
%RSD		20.670	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.075	0.141	92.526%
%RSD		7.145	6.647	1.479

ICSAB 3/19/2010 16:58:31 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		74.954%	92.362%	T 104.836%
%RSD		1.348	1.460	T 1.074
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		105.050%	M 101.151%	0.000
%RSD		1.163	M 0.898	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 99.947%	100.613%	T 75.587%
%RSD		T 0.565	0.238	T 0.926
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		73.667%	98.609%	99.271%
%RSD		1.077	1.088	0.368
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.238	101.616%	TM 100.847%
%RSD		29.620	0.332	TM 1.035
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		97.186%	98.456%	97.263%
%RSD		0.982	0.690	1.203
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		101.895%	77.485%	92.360%
%RSD		2.453	1.420	0.671
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.291	95.188%	M 1125.000
%RSD		45.540	3.248	M 0.599
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	100.507%	33.140
%RSD		0.000	1.106	140.100
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		97.934%	83.055%	97.028%
%RSD		2.149	1.651	0.535
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		96.226%	0.000	0.000
%RSD		1.248	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.316%	95.513%	96.291%
%RSD		0.729	1.137	0.842

CCV 3/19/2010 17:05:26 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		75.672%	96.029%	T 107.185%
%RSD		1.951	1.963	T 0.750
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		102.894%	107.058%	0.000
%RSD		1.033	2.160	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 99.216%	99.052%	T 78.622%
%RSD		T 0.298	1.373	T 0.886
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.557%	98.576%	100.484%
%RSD		0.481	3.013	0.892
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.382	T 99.026%	T 99.327%
%RSD		37.480	T 0.366	T 1.570
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		99.784%	100.638%	101.355%
%RSD		0.864	1.077	1.351
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.460%	74.650%	97.566%
%RSD		0.891	1.232	0.645
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.331	96.636%	105.300%
%RSD		46.920	2.071	0.922
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.174%	92.270
%RSD		0.000	0.540	61.770
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		99.333%	83.135%	97.304%
%RSD		0.871	1.539	1.143
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		96.383%	0.000	0.000
%RSD		1.628	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		97.775%	94.735%	96.427%
%RSD		0.613	1.162	0.978

CCB 3/19/2010 17:12:20 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		77.414%	0.041	21.050
%RSD		1.449	35.820	9.118
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		26.000	13.170	0.000
%RSD		74.490	30.260	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		22.970	30.840	T 75.433%
%RSD		9.301	16.390	T 1.707
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		74.263%	0.059	0.055
%RSD		1.216	181.400	51.690
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.238	0.727	35.800
%RSD		44.300	4.732	11.260
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.084	0.073	0.131
%RSD		8.358	42.810	54.110
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		-0.202	76.290%	0.136
%RSD		99.830	2.018	93.170
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.014	0.123	0.497
%RSD		18.040	123.300	20.300
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.044	-0.105
%RSD		0.000	19.370	1947.000
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.049	83.398%	0.060
%RSD		62.570	0.350	13.640
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.075	0.000	0.000
%RSD		27.510	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.280	0.072	102.981%
%RSD		5.741	7.328	0.270

LWAHF 3/19/2010 17:17:00 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		75.503%	4.870	291.000
%RSD		2.611	3.513	1.432
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		22940.000	M 97390.000	0.000
%RSD		0.692	M 0.726	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 6531.000	33650.000	T 80.832%
%RSD		T 0.963	1.459	T 1.364
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.111%	183.900	M 205.700
%RSD		1.078	0.587	M 0.855
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		12.050	TM 5508.000	TM 213400.000
%RSD		1.410	TM 0.745	TM 0.767
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		87.260	185.000	128.300
%RSD		0.560	0.407	0.595
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 487.900	79.979%	89.990
%RSD		M 1.073	1.352	1.530
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.571	7.876	15.940
%RSD		2.059	4.689	1.498
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.278	-10.040
%RSD		0.000	7.363	135.700
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		3.306	85.455%	1.096
%RSD		0.328	1.442	11.080
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 587.800	0.000	0.000
%RSD		M 0.637	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.620	172.300	101.553%
%RSD		0.737	1.345	0.473

LWAHH 3/19/2010 17:21:42 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.630%	5.315	301.500
%RSD		3.389	4.030	4.170
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		21670.000	M 93860.000	0.000
%RSD		2.904	M 1.108	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 6680.000	19000.000	T 85.013%
%RSD		T 1.824	1.334	T 0.844
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.371%	171.300	M 389.800
%RSD		1.534	1.506	M 0.765
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		20.830	TM 8178.000	TM 198800.000
%RSD		3.823	TM 0.780	TM 1.110
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		96.700	M 252.100	135.100
%RSD		0.106	M 0.533	1.276
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 564.000	79.906%	86.480
%RSD		M 1.490	0.946	1.082
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.407	7.849	16.140
%RSD		42.190	9.131	2.001
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.340	-15.780
%RSD		0.000	9.601	130.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		2.511	85.402%	1.114
%RSD		7.053	0.366	2.554
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 642.700	0.000	0.000
%RSD		M 1.364	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.507	171.700	101.769%
%RSD		0.995	1.144	0.365

LWAHK 3/19/2010 17:26:29 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		74.327%	5.877	T 685.700
%RSD		1.218	1.532	T 0.487
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		30530.000	M 107900.000	0.000
%RSD		1.630	M 1.981	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 8099.000	M 120200.000	T 83.419%
%RSD		T 1.041	M 0.654	T 0.262
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		76.461%	M 222.900	M 276.000
%RSD		2.006	M 2.533	M 0.731
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		13.990	TM 8224.000	TM 237100.000
%RSD		15.780	TM 0.189	TM 0.817
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		70.940	171.000	132.800
%RSD		0.944	2.179	1.220
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 530.200	76.068%	98.850
%RSD		M 1.585	1.707	1.717
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.525	7.960	16.010
%RSD		28.590	5.229	0.417
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.325	-12.240
%RSD		0.000	4.837	61.110
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		2.382	83.253%	1.233
%RSD		8.896	0.924	8.389
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 701.500	0.000	0.000
%RSD		M 0.672	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.516	M 206.600	97.750%
%RSD		1.147	M 1.303	0.712

LWAHL 3/19/2010 17:31:30 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		75.866%	4.852	T 552.400
%RSD		2.514	3.290	T 1.575
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		31070.000	M 90750.000	0.000
%RSD		1.097	M 0.198	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 8411.000	91250.000	T 82.452%
%RSD		T 0.991	0.052	T 0.474
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		75.831%	150.800	M 380.100
%RSD		0.807	1.091	M 1.338
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		20.780	TM 4867.000	TM 202200.000
%RSD		8.802	TM 0.997	TM 2.457
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		73.930	M 254.300	183.800
%RSD		1.247	M 1.095	1.115
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 769.800	75.333%	95.620
%RSD		M 1.096	0.309	0.323
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.606	8.739	16.830
%RSD		3.349	9.350	0.457
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.204	-30.340
%RSD		0.000	18.680	23.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		5.213	82.629%	1.396
%RSD		1.045	0.099	4.149
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 593.200	0.000	0.000
%RSD		M 1.230	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.469	TM 645.800	95.294%
%RSD		0.635	TM 1.446	1.428

LWAHM 3/19/2010 17:36:10 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		74.711%	5.423	T 580.300
%RSD		1.182	1.395	T 1.607
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		31620.000	M 96160.000	0.000
%RSD		1.394	M 1.707	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9209.000	70680.000	T 80.979%
%RSD		T 1.200	1.053	T 0.786
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.792%	160.700	M 286.000
%RSD		1.475	0.907	M 0.218
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		15.200	TM 4133.000	TM 242200.000
%RSD		15.440	TM 1.758	TM 0.698
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		93.930	M 271.900	197.400
%RSD		0.512	M 0.621	0.326
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 635.600	73.366%	112.600
%RSD		M 0.319	1.386	0.337
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.543	9.179	15.730
%RSD		17.970	9.047	1.502
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.141	-36.140
%RSD		0.000	5.831	33.450
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		5.115	80.997%	1.099
%RSD		3.706	0.676	5.793
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 586.700	0.000	0.000
%RSD		M 1.429	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.337	TM 361.500	97.554%
%RSD		0.350	TM 1.056	0.762

LWCWH 3/19/2010 17:40:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		74.497%	1.335	337.900
%RSD		2.290	4.679	1.698
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		30150.000	M 27830.000	0.000
%RSD		2.254	M 0.611	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 4520.000	M 125900.000	T 76.014%
%RSD		T 1.342	M 0.488	T 0.368
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		70.024%	56.650	45.190
%RSD		0.365	0.455	1.409
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.361	TM 2297.000	TM 131900.000
%RSD		27.770	TM 0.318	TM 0.759
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		38.970	97.770	165.500
%RSD		1.473	1.106	2.435
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 487.900	69.496%	89.450
%RSD		M 0.838	0.893	1.160
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.428	4.627	8.862
%RSD		25.600	6.317	2.107
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.142	-12.810
%RSD		0.000	11.810	21.590
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.678	79.010%	0.705
%RSD		5.823	1.076	8.117
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		193.600	0.000	0.000
%RSD		1.163	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.061	77.840	95.018%
%RSD		1.093	0.713	0.771

LWCWJ 3/19/2010 17:45:33 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		71.634%	2.577	373.200
%RSD		2.869	3.007	2.252
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		36130.000	M 52870.000	0.000
%RSD		0.870	M 0.492	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 7984.000	63410.000	T 74.034%
%RSD		T 1.966	1.084	T 0.468
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		69.394%	90.900	84.680
%RSD		0.495	1.468	0.500
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.709	TM 2758.000	TM 182700.000
%RSD		37.420	TM 0.609	TM 2.049
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		68.460	160.100	148.000
%RSD		0.844	2.125	1.041
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 462.700	69.055%	110.600
%RSD		M 1.837	0.383	0.371
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.556	5.172	7.335
%RSD		6.065	6.557	2.325
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.145	-26.280
%RSD		0.000	11.430	45.830
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.345	77.368%	0.514
%RSD		10.050	1.046	5.471
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		176.100	0.000	0.000
%RSD		0.352	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.861	82.680	96.207%
%RSD		1.490	0.510	1.084

LWGC8 3/19/2010 17:50:21 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		77.778%	2.791	139.100
%RSD		0.357	2.486	1.346
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10690.000	M 43000.000	0.000
%RSD		2.689	M 0.335	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3589.000	6536.000	T 76.079%
%RSD		T 1.001	0.930	T 1.306
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		73.124%	89.600	66.040
%RSD		0.837	1.636	0.341
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.403	TM 3622.000	TM 158800.000
%RSD		25.570	TM 0.584	TM 1.242
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		46.310	81.560	70.760
%RSD		0.733	1.824	1.059
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 341.900	75.488%	37.580
%RSD		M 1.089	0.156	1.386
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.392	4.417	6.684
%RSD		13.640	8.984	3.078
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.058	-12.600
%RSD		0.000	5.095	42.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.578	81.146%	0.832
%RSD		5.172	0.856	6.044
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 263.800	0.000	0.000
%RSD		M 1.820	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.677	112.000	97.336%
%RSD		2.566	0.726	0.601

LWGDA 3/19/2010 17:55:03 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		78.564%	2.747	117.100
%RSD		3.482	3.177	4.315
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		8790.000	M 33480.000	0.000
%RSD		3.548	M 2.023	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3845.000	3250.000	T 79.563%
%RSD		T 1.216	0.257	T 1.435
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.996%	92.790	61.260
%RSD		1.110	1.549	1.173
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.628	TM 4147.000	TM 183000.000
%RSD		23.200	TM 1.431	TM 1.120
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		43.790	63.880	41.110
%RSD		1.595	2.974	1.355
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 428.600	74.803%	20.820
%RSD		M 0.409	0.952	1.324
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.426	4.267	5.024
%RSD		27.600	17.670	4.580
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.004	-17.950
%RSD		0.000	204.500	15.070
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.450	81.544%	0.402
%RSD		6.691	0.830	10.480
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		135.000	0.000	0.000
%RSD		0.569	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.552	51.270	96.835%
%RSD		1.207	0.941	0.568

LWGDC 3/19/2010 17:59:44 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		76.739%	3.580	154.100
%RSD		1.412	1.265	2.699
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		7741.000	M 27630.000	0.000
%RSD		1.801	M 0.866	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3733.000	3495.000	T 79.297%
%RSD		T 1.635	0.915	T 1.448
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.466%	85.540	54.410
%RSD		0.374	0.544	0.795
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.758	TM 6709.000	TM 255300.000
%RSD		15.030	TM 0.506	TM 1.129
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		46.900	65.450	41.750
%RSD		0.245	1.476	1.871
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 427.800	73.808%	15.850
%RSD		M 1.564	1.291	2.566
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.274	4.215	3.901
%RSD		11.680	9.592	6.792
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.016	-12.660
%RSD		0.000	77.990	20.910
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.537	79.310%	0.349
%RSD		3.579	0.659	1.293
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		155.000	0.000	0.000
%RSD		1.143	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.442	43.030	93.610%
%RSD		5.227	1.931	1.171

CCV 9 3/19/2010 18:04:24 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		72.490%	94.004%	T 107.569%
%RSD		2.724	2.745	T 1.187
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.312%	110.306%	0.000
%RSD		1.568	1.667	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 108.687%	108.427%	62.535%
%RSD		T 0.780	0.925	0.485
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		66.036%	97.313%	99.322%
%RSD		0.451	0.518	1.309
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.830	T 109.259%	T 101.649%
%RSD		8.701	T 1.029	T 0.781
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		99.523%	100.327%	100.436%
%RSD		1.697	1.519	2.080
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.882%	64.727%	96.246%
%RSD		1.689	1.231	0.169
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.266	97.389%	104.076%
%RSD		33.010	2.339	0.302
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	102.949%	98.820
%RSD		0.000	0.944	44.580
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.504%	72.817%	98.405%
%RSD		2.374	0.330	1.547
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		95.395%	0.000	0.000
%RSD		1.459	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.652%	95.331%	88.896%
%RSD		0.647	1.282	0.882

CCB 9 3/19/2010 18:11:18 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		74.178%	0.033	23.630
%RSD		1.950	13.640	6.683
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		55.630	24.930	0.000
%RSD		4.344	6.864	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		33.170	46.180	62.337%
%RSD		5.800	14.070	0.368
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		67.618%	0.185	0.116
%RSD		1.986	113.200	20.330
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.374	1.034	131.400
%RSD		54.130	3.721	1.835
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.175	0.206	0.297
%RSD		29.010	40.800	14.380
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.032	68.693%	0.046
%RSD		1122.000	0.634	51.230
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.013	0.172	0.228
%RSD		243.800	139.600	18.110
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.106	-0.233
%RSD		0.000	17.980	453.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.090	76.425%	0.096
%RSD		21.240	0.569	22.230
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.198	0.000	0.000
%RSD		13.500	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.256	0.162	97.091%
%RSD		7.674	3.742	1.030

TestAmerica
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MISCELLANEOUS DATA

North Canton

Metals Internal Chain of Custody

Date Prepared: 03/10/10 **Prep Analyst:** Lisa Mcgall

Laboratory Sample ID		Lab ID	Method	Analysis Date	Analyst	Instrument
A0C050520	1	LWCWH	SW846 6020	03/19/10	Karen Counts	I8
A0C050520	1	LWCWH	SW846 7471A	03/12/10	Bradley Belding	H1
A0C050520	2	LWCWJ	SW846 6020	03/19/10	Karen Counts	I8
A0C050520	2	LWCWJ	SW846 7471A	03/12/10	Bradley Belding	H1

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

METALS PREPARATION SUMMARY

Preparation Type	Matrix	Amount of Standard added to LCS & MS/MSD		Initial Sample Vol/Wt	Final Sample Volume
		Amount	Standard name		
ICP	water	1 mL 1 mL 1.0 mL	Ag ICP-1 ICP-2A	50 mL	50 mL
ICPMS	water	0.5ml 0.5ml	ICPMS-1 ICPMS-2	50 mL	50 mL
Hg - CVAA	water	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL
Hg - CVAF (low level)	water	0.2 mL (LCS/MS/MSD)	HG ICAL	40 ml	40 ml
ICP	solid	2 mL 2 mL 2 mL	Ag ICP-1 ICP-2A	1.00 +/- .02g	100 mL
ICPMS	solid	1ml 1ml	ICPMS-1 ICPMS-2	1.00 +/- .02g	100ml
Hg - CVAA	solid	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	0.60 +/- .01g	100 mL
ICP	TCLP	1 mL (LCS) 1 mL(LCS)	Ag ICP-1	50 mL	50 mL
ICP	TCLP	0.5 mL(MS/MSD)	TCLP Spike I RCRA	50 mL	50 mL
ICP	TCLP	1 mL(MS/MSD)	TCLP Spike II Non-RCRA	50 mL	50 mL
Hg - CVAA	TCLP	5 mL (LCS) 5 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL

Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.0002 ppm		0.2 mL	HG-2	0.1 ppm
0.0005 ppm		0.5 mL	HG-2	0.1 ppm
0.001 ppm		1 mL	HG-2	0.1 ppm
0.005 ppm		5 mL	HG-2	0.1 ppm
0.010 ppm		10 mL	HG-2	0.1 ppm
ICV Preparation				
0.0025 ppm		2.5 mL	HG-1	0.1 ppm
CCV Preparation:				
0.005 ppm		5 mL	HG-2	0.1 ppm

Low Level Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.5 ppt		20 ul	HG ICAL	1.0 ppb
1.0 ppt		40 ul	HG ICAL	1.0 ppb
2 ppt		80 ul	HG ICAL	1.0 ppb
5 ppt		200 ul	HG ICAL	1.0 ppb
10 ppt		400 ul	HG ICAL	1.0 ppb
25 ppt		1000 ul	HG ICAL	1.0 ppb
ICV Preparation				
5 ppt		200 ul	HG ICV	1.0 ppb
CCV Preparation:				
5 ppt		200 ul	HG ICAL	1.0 ppb

SPIKING STANDARD DEFINITIONS

Elements	Ag	ICP-1	ICP-2A	ICPMS-1	ICPMS-2	HG-1	HG-2	HG ICAL	HG ICV	TCLP Spike I	TCLP Spike II
Ag	2.5 ppm			10ppm						100 ppm	
Al		100 ppm			1000ppm						100 ppm
As		100 ppm		10ppm						500 ppm	
Ba		100 ppm		10ppm						5000 ppm	
Be		2.5 ppm		10ppm							2.5 ppm
Cd		2.5 ppm		10ppm						100 ppm	
Ca			2500 ppm		1000ppm						
Co		25 ppm		10ppm							25 ppm
Cr		10 ppm		10ppm						500 ppm	
Cu		12.5 ppm		10ppm							12.5 ppm
Fe		50 ppm			1000ppm						50 ppm
Hg						0.1 ppm	0.1 ppm	1.0 ppb	1.0 ppb		
K			2500 ppm		1000ppm						
Mg			2500 ppm		1000ppm						
Mn		25 ppm		10ppm							25 ppm
Na			2500 ppm		1000ppm						
Ni		25 ppm		10ppm							25 ppm
Pb		25 ppm		10ppm						500 ppm	
Sb		25 ppm		10ppm							25 ppm
Se		100 ppm		10ppm						100 ppm	
Tl		100 ppm		10ppm							100 ppm
V		25 ppm		10ppm							25 ppm
Zn		25 ppm		10ppm							25 ppm
B		50 ppm		10ppm							50 ppm
Sr		50 ppm		10ppm							
Mo		50 ppm		10ppm							50 ppm
W		50 ppm		10ppm							
Sn		100 ppm		10ppm							100 ppm
Zr		50 ppm		10ppm							
Ti		50 ppm		10ppm							

Test America North Canton
Revised 4/5/02
N:\Metals\Preplog.xls

DATE: 3-10-10

METALS PREPARATION REAGENTS/STANDARDS

Reagents and Standards listed on this form are used for the entire day's prep batches unless otherwise noted on the individual prep log.

REAGENT NAME	REAGENT NUMBER
1:1 HNO_3 (nitric acid)	OMR153
1:1 HCl (hydrochloric acid)	OMR77
HNO_3 (nitric acid)	OMR141
HCl (hydrochloric acid)	OMR142
$KMnO_4$ (potassium permanganate)	OMR94
$K_2S_2O_8$ (potassium persulfate)	OMR97
H_2O_2 (hydrogen peroxide)	QMR782
H_2SO_4 (sulfuric acid)	OMR91
HCl/HNO_3 (aqua regia)	OMR154

STANDARD NAME	STANDARD/LOT NUMBER
ICP-1	OA17
ICP-2A	OA46
RCRA	—
non-RCRA	—
Ag	OB82
Hg	OC119
ICPMS-1	HPS0928714A HPS0928716B
ICPMS-2	HPS0930821

Filter Paper Lot #
K 11592821 A

Waters

Hg time in the water bath (HB1) —

Hg time out of the water bath (HB1) —

Solids

Hg time in the water bath (HB1) 9:20

Hg time out of the water bath (HB1) 9:50

Times listed are for the waters and solids for that day unless otherwise noted.

All solid batches were weighed on balance number B030 unless otherwise noted.

Daily Batch Level II Lisa McGill

Test America North Canton
Revision Date: 4/4/08
N:\Metals/Reagent2.doc

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GENERAL CHEMISTRY DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-006-5130-SO

General Chemistry

Lot-Sample #...: A0C050520-001 **Work Order #...:** LWCWH **Matrix.....:** SO
Date Sampled...: 02/24/10 11:35 **Date Received..:** 03/05/10
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**79.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/08-03/09/10**	**0067099**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

General Chemistry

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ **Matrix.....:** SO
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.1	mg/kg	MCAWW 353.2	03/09-03/11/10	0068158
		Dilution Factor: 1		MDL.....: 0.95		
Percent Solids	**81.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/08-03/09/10**	**0067099**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LWFAJ1AA		MB Lot-Sample #:	G0C090000-158	
	0.82 B	**5.0**	**mg/kg**	**MCAWW 353.2**	**03/09-03/11/10**	**0068158**
		Dilution Factor: 1				
Percent Solids		Work Order #: LWD3L1AA		MB Lot-Sample #:	A0C080000-099	
	ND	10.0	%	MCAWW 160.3 MOD	03/08-03/09/10	0067099
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LWFAJ1AC	LCS Lot-Sample#: G0C090000-158		
	71	(34 - 115)	MCAWW 353.2	03/09-03/11/10	0068158
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	Work Order #: LWFAJ1AC			LCS Lot-Sample#: G0C090000-158			
	50.9	36.2	mg/kg	71	MCAWW 353.2	03/09-03/11/10	0068158
	Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/02/10 10:45 **Date Received..:** 03/03/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 21	
Nitrocellulose		WO#: LV9DA1CJ-MS/LV9DA1CK-MSD				MS Lot-Sample #: A0C030547-001	
	41	(34 - 115)			MCAWW 353.2	03/09-03/11/10	0068158
	28 N	(34 - 115)	36	(0-71)	MCAWW 353.2	03/09-03/11/10	0068158
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/02/10 10:45 **Date Received..:** 03/03/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
							% Moisture.....: 21		
Nitrocellulose			WO#: LV9DA1CJ-MS/LV9DA1CK-MSD				MS Lot-Sample #: A0C030547-001		
	1.0	64.2	27.4	mg/kg	41		MCAWW 353.2	03/09-03/11/10	0068158
	1.0	64.1	19.1 N	mg/kg	28	36	MCAWW 353.2	03/09-03/11/10	0068158
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0C050520 **Work Order #...:** LWCCK-SMP **Matrix.....:** SOLID
LWCCK-DUP
Date Sampled...: 03/04/10 08:20 **Date Received..:** 03/05/10
% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0C050450-002		
	86.1	85.9	%	0.22	(0-20)	MCAWW 160.3 MOD	03/08-03/09/10	0067099

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0C050520 **Work Order #...:** LWCCP-SMP LWCCP-DUP **Matrix.....:** SOLID
Date Sampled...: 03/04/10 08:40 **Date Received..:** 03/05/10
% Moisture.....: 11

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0C050450-004		
	88.8	89.2	%	0.48	(0-20)	MCAWW 160.3 MOD	03/08-03/09/10	0067099

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SUPPORTIVE RAW DATA

			TestAmerica, North Canton			
		Percent Total Solid/Percent Moisture Logsheet				
		Method 160.3, 160.5, D2216-90, D1553-83				
Analysis	TS			Batch		67099
Prep Date	3/8/2010	Time In	10:40	Analyst	6531	WETCHEM
Anal date	3/9/2010	Time Out	7:30	RL	10	
Oven	**2**	Balance	**6**	Due Date:	**3/22/2010**	
Sample	Tare	Wet	Dry	Result TS	Result MS	Time
ID	wt	wt	wt	%	%	
BLANK	4.586	4.5021	4.4925	2.80	ND	11:51
LWCCK1AA	4.586	16.8976	15.1882	86.116	13.884	11:51
LWCCK1AF X	4.586	16.1945	14.5606	85.925	14.075	11:51
LWCCN1AA	4.586	16.8977	15.2528	86.640	13.360	11:52
LWCCP1AA	4.586	12.8381	11.9118	88.775	11.225	11:52
LWCCP1AD X	4.586	12.0823	11.2728	89.201	10.799	11:52
LWCCQ1AA	4.586	16.6931	16.2284	96.162	3.838	11:52
LWCCR1AA	4.586	16.8679	14.8622	83.669	16.331	11:52
LWCCV1AA	4.586	21.2798	18.6493	84.243	15.757	11:53
LWCCW1AA	4.586	16.6919	16.3257	96.975	3.025	11:53
LWCC01AA	4.586	19.2002	16.9523	84.618	15.382	11:53
LWCC11AA	4.586	18.3499	17.0092	90.259	9.741	11:53
LWCC31AA	4.586	12.5959	11.9659	92.135	7.865	11:53
LWDLC1AA	4.586	16.7600	13.7585	75.345	24.655	11:53
LWDLD1AA	4.586	16.6166	14.8635	85.428	14.572	11:54
LWDLE1AA	4.586	20.5808	18.5176	87.101	12.899	11:54
LWCWH1AA	4.586	8.3886	7.5943	79.112	20.888	11:54
LWCWJ1AA	4.586	9.4289	8.5420	81.687	18.313	11:54
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0C050520	1		LWCWH1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/08/10	Bradley Belding	03/09/10	Bradley Belding
A0C050520	2		LWCWJ1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/08/10	Bradley Belding	03/09/10	Bradley Belding

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

WEST SACRAMENTO DATA

Case Narrative

TestAmerica West Sacramento Project Number A0C050520

General Comments

Manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: S-Q-004, including Addendum 1. Detailed information can be found in the Manual Integration Addendum section of this report.

There are no other anomalies associated with this project.

Science Applications International Corp

Client Sample ID: ATASB-006-5130-SO

General Chemistry

Lot-Sample #...: A0C050520-001 **Work Order #...:** LWCWH **Matrix.....:** SO
Date Sampled...: 02/24/10 11:35 **Date Received..:** 03/05/10
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**79.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/08-03/09/10**	**0067099**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-006-5130-SO

HPLC

Lot-Sample #...: A0C050520-001 **Work Order #...:** LWCWH1A4 **Matrix.....:** SO
Date Sampled...: 02/24/10 11:35 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/12/10
Prep Batch #...: 0068272
Dilution Factor: 0.95
% Moisture.....: 21 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.24	mg/kg	0.0095
2-Amino-4,6-dinitrotoluene	ND	0.24	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.24	mg/kg	0.0040
2,4-Dinitrotoluene	ND	0.24	mg/kg	0.0050
2,6-Dinitrotoluene	ND	0.24	mg/kg	0.0069
HMX	ND	0.24	mg/kg	0.011
Nitrobenzene	ND	0.24	mg/kg	0.017
Nitroglycerin	ND	0.48	mg/kg	0.014
2-Nitrotoluene	ND	0.24	mg/kg	0.012
3-Nitrotoluene	ND	0.24	mg/kg	0.015
4-Nitrotoluene	ND	0.48	mg/kg	0.017
PETN	ND	0.48	mg/kg	0.024
RDX	ND	0.24	mg/kg	0.011
Tetryl	ND	0.24	mg/kg	0.0095
1,3,5-Trinitrobenzene	ND	0.24	mg/kg	0.0095
2,4,6-Trinitrotoluene	ND	0.24	mg/kg	0.018

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	109	(81 - 127)

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

HPLC

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ1A9 **Matrix.....:** SO
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/16/10
Prep Batch #...: 0068274
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8330 (Modif

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroguanidine	ND	0.25	mg/kg	0.020

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

HPLC

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ1A8 **Matrix.....:** SO
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/12/10
Prep Batch #...: 0068272
Dilution Factor: 0.93
% Moisture.....: 18 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.23	mg/kg	0.0093
2-Amino-4,6-dinitrotoluene	ND	0.23	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.23	mg/kg	0.0039
2,4-Dinitrotoluene	ND	0.23	mg/kg	0.0049
2,6-Dinitrotoluene	ND	0.23	mg/kg	0.0068
HMX	ND	0.23	mg/kg	0.011
Nitrobenzene	ND	0.23	mg/kg	0.016
Nitroglycerin	ND	0.46	mg/kg	0.014
2-Nitrotoluene	ND	0.23	mg/kg	0.012
3-Nitrotoluene	ND	0.23	mg/kg	0.014
4-Nitrotoluene	ND	0.46	mg/kg	0.017
PETN	ND	0.46	mg/kg	0.023
RDX	ND	0.23	mg/kg	0.011
Tetryl	ND	0.23	mg/kg	0.0093
1,3,5-Trinitrobenzene	ND	0.23	mg/kg	0.0093
2,4,6-Trinitrotoluene	ND	0.23	mg/kg	0.018

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	109	(81 - 127)

Science Applications International Corp

Client Sample ID: LL6SB-069-5222-SO

General Chemistry

Lot-Sample #...: A0C050520-002 **Work Order #...:** LWCWJ **Matrix.....:** SO
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.1	mg/kg	MCAWW 353.2	03/09-03/11/10	0068158
		Dilution Factor: 1		MDL.....: 0.95		
Percent Solids	**81.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/08-03/09/10**	**0067099**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LWFWA1AA **Matrix.....:** SOLID
MB Lot-Sample #: G0C090000-274
Prep Date.....: 03/09/10
Analysis Date..: 03/16/10 **Prep Batch #...:** 0068274
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitroguanidine	ND	0.25	mg/kg	SW846 8330 (Modif

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LWFV51AA **Matrix.....:** SOLID
MB Lot-Sample #: G0C090000-272
Prep Date.....: 03/09/10
Analysis Date..: 03/11/10 **Prep Batch #...:** 0068272
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330B
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
Nitrobenzene	ND	0.25	mg/kg	SW846 8330B
Nitroglycerin	ND	0.50	mg/kg	SW846 8330B
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330B
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330B
HMX	ND	0.25	mg/kg	SW846 8330B
RDX	ND	0.25	mg/kg	SW846 8330B
Tetryl	ND	0.25	mg/kg	SW846 8330B
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330B
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330B
4-Nitrotoluene	ND	0.50	mg/kg	SW846 8330B
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
PETN	ND	0.50	mg/kg	SW846 8330B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	108	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LWFAJ1AA		MB Lot-Sample #:	G0C090000-158	
	0.82 B	**5.0**	**mg/kg**	**MCAWW 353.2**	**03/09-03/11/10**	**0068158**
		Dilution Factor: 1				
Percent Solids		Work Order #: LWD3L1AA		MB Lot-Sample #:	A0C080000-099	
	ND	10.0	%	MCAWW 160.3 MOD	03/08-03/09/10	0067099
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LWFWA1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C090000-274
Prep Date.....: 03/09/10 **Analysis Date..:** 03/16/10
Prep Batch #...: 0068274
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Nitroguanidine	**97**	**(72 - 121)**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LWFWA1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C090000-274
Prep Date.....: 03/09/10 **Analysis Date..:** 03/16/10
Prep Batch #...: 0068274
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Nitroguanidine	**1.0**	**0.97**	**mg/kg**	**97**	**SW846 8330 (Modi**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LWFV51AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C090000-272
Prep Date.....: 03/09/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0068272
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2-Amino-4,6-dinitrotoluene	**97**	**(80 - 125)**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**96**	**(80 - 125)**	**SW846 8330B**
1,3-Dinitrobenzene	**100**	**(80 - 125)**	**SW846 8330B**
2,4-Dinitrotoluene	**96**	**(80 - 125)**	**SW846 8330B**
2,6-Dinitrotoluene	**96**	**(80 - 120)**	**SW846 8330B**
HMX	**101**	**(75 - 125)**	**SW846 8330B**
Nitrobenzene	**97**	**(75 - 125)**	**SW846 8330B**
2-Nitrotoluene	**106**	**(80 - 125)**	**SW846 8330B**
3-Nitrotoluene	**99**	**(75 - 120)**	**SW846 8330B**
4-Nitrotoluene	**99**	**(75 - 125)**	**SW846 8330B**
RDX	**101**	**(70 - 135)**	**SW846 8330B**
Tetryl	**88**	**(10 - 150)**	**SW846 8330B**
1,3,5-Trinitrobenzene	**100**	**(75 - 125)**	**SW846 8330B**
2,4,6-Trinitrotoluene	**91**	**(55 - 140)**	**SW846 8330B**
Nitroglycerin	**101**	**(74 - 112)**	**SW846 8330B**
PETN	**96**	**(75 - 117)**	**SW846 8330B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	102	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LWFV51AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C090000-272
Prep Date.....: 03/09/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0068272
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Amino-4,6-dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**97**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**96**	**SW846 8330B**
1,3-Dinitrobenzene	**0.50**	**0.50**	**mg/kg**	**100**	**SW846 8330B**
2,4-Dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**96**	**SW846 8330B**
2,6-Dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**96**	**SW846 8330B**
HMX	**0.50**	**0.51**	**mg/kg**	**101**	**SW846 8330B**
Nitrobenzene	**0.50**	**0.48**	**mg/kg**	**97**	**SW846 8330B**
2-Nitrotoluene	**0.50**	**0.53**	**mg/kg**	**106**	**SW846 8330B**
3-Nitrotoluene	**0.50**	**0.49**	**mg/kg**	**99**	**SW846 8330B**
4-Nitrotoluene	**0.50**	**0.49**	**mg/kg**	**99**	**SW846 8330B**
RDX	**0.50**	**0.50**	**mg/kg**	**101**	**SW846 8330B**
Tetryl	**0.50**	**0.44**	**mg/kg**	**88**	**SW846 8330B**
1,3,5-Trinitrobenzene	**0.50**	**0.50**	**mg/kg**	**100**	**SW846 8330B**
2,4,6-Trinitrotoluene	**0.50**	**0.45**	**mg/kg**	**91**	**SW846 8330B**
Nitroglycerin	**1.0**	**1.0**	**mg/kg**	**101**	**SW846 8330B**
PETN	**1.0**	**0.96**	**mg/kg**	**96**	**SW846 8330B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	102	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LWFAJ1AC	LCS Lot-Sample#: G0C090000-158		
	71	(34 - 115)	MCAWW 353.2	03/09-03/11/10	0068158
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0C050520 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	Work Order #: LWFAJ1AC LCS Lot-Sample#: G0C090000-158						
	50.9	36.2	mg/kg	71	MCAWW 353.2	03/09-03/11/10	0068158
	Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CJ-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CK-MSD
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/16/10
Prep Batch #...: 0068274
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Nitroguanidine	**99**	**(72 - 121)**			**SW846 8330 (Modified**
	98	**(72 - 121)**	**1.5**	**(0-20)**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LWCWJ1CJ-MS **Matrix.....:** SO
MS Lot-Sample #: A0C050520-002 LWCWJ1CK-MSD
Date Sampled...: 02/25/10 15:09 **Date Received..:** 03/05/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/16/10
Prep Batch #...: 0068274
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Nitroguanidine	**ND**	**0.98**	**0.97**	**mg/kg**	**99**		**SW846 8330 (Modified**
	ND	**1.0**	**0.98**	**mg/kg**	**98**	**1.5**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LV41M1DV-MS **Matrix.....:** SOLID
MS Lot-Sample #: A0B260454-001 LV41M1DW-MSD
Date Sampled...: 02/25/10 14:12 **Date Received..:** 02/26/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0068272
Dilution Factor: 0.99 **% Moisture.....:** 19

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluene	**101**	**(80 - 125)**			**SW846 8330B**
	96	**(80 - 125)**	**3.9**	**(0-30)**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**101**	**(80 - 125)**			**SW846 8330B**
	95	**(80 - 125)**	**4.6**	**(0-30)**	**SW846 8330B**
1,3-Dinitrobenzene	**101**	**(80 - 125)**			**SW846 8330B**
	100	**(80 - 125)**	**0.48**	**(0-30)**	**SW846 8330B**
2,4-Dinitrotoluene	**101**	**(80 - 125)**			**SW846 8330B**
	96	**(80 - 125)**	**3.9**	**(0-30)**	**SW846 8330B**
2,6-Dinitrotoluene	**102**	**(80 - 120)**			**SW846 8330B**
	96	**(80 - 120)**	**5.2**	**(0-30)**	**SW846 8330B**
HMX	**97**	**(75 - 125)**			**SW846 8330B**
	96	**(75 - 125)**	**0.31**	**(0-30)**	**SW846 8330B**
Nitrobenzene	**100**	**(75 - 125)**			**SW846 8330B**
	97	**(75 - 125)**	**2.6**	**(0-30)**	**SW846 8330B**
2-Nitrotoluene	**98**	**(80 - 125)**			**SW846 8330B**
	98	**(80 - 125)**	**0.02**	**(0-30)**	**SW846 8330B**
3-Nitrotoluene	**99**	**(75 - 120)**			**SW846 8330B**
	97	**(75 - 120)**	**1.3**	**(0-30)**	**SW846 8330B**
4-Nitrotoluene	**98**	**(75 - 125)**			**SW846 8330B**
	98	**(75 - 125)**	**0.39**	**(0-30)**	**SW846 8330B**
RDX	**88**	**(70 - 135)**			**SW846 8330B**
	89	**(70 - 135)**	**1.2**	**(0-30)**	**SW846 8330B**
Tetryl	**89**	**(10 - 150)**			**SW846 8330B**
	87	**(10 - 150)**	**1.9**	**(0-30)**	**SW846 8330B**
1,3,5-Trinitrobenzene	**101**	**(75 - 125)**			**SW846 8330B**
	101	**(75 - 125)**	**0.85**	**(0-30)**	**SW846 8330B**
2,4,6-Trinitrotoluene	**94**	**(55 - 140)**			**SW846 8330B**
	91	**(55 - 140)**	**2.1**	**(0-30)**	**SW846 8330B**
Nitroglycerin	**103**	**(74 - 112)**			**SW846 8330B**
	102	**(74 - 112)**	**0.19**	**(0-30)**	**SW846 8330B**
PETN	**99**	**(75 - 117)**			**SW846 8330B**
	102	**(75 - 117)**	**3.8**	**(0-30)**	**SW846 8330B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LV41M1DV-MS **Matrix.....:** SOLID
MS Lot-Sample #: A0B260454-001 LV41M1DW-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	111	(81 - 127)
	102	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LV41M1DV-MS **Matrix.....:** SOLID
MS Lot-Sample #: A0B260454-001 LV41M1DW-MSD
Date Sampled...: 02/25/10 14:12 **Date Received..:** 02/26/10
Prep Date.....: 03/09/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0068272
Dilution Factor: 0.99 **% Moisture.....:** 19

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2-Amino-4,6-dinitrotoluene	**ND**	**0.50**	**0.50**	**mg/kg**	**101**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**3.9**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**ND**	**0.50**	**0.50**	**mg/kg**	**101**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**95**	**4.6**	**SW846 8330B**
1,3-Dinitrobenzene	**ND**	**0.50**	**0.50**	**mg/kg**	**101**		**SW846 8330B**
	ND	**0.50**	**0.50**	**mg/kg**	**100**	**0.48**	**SW846 8330B**
2,4-Dinitrotoluene	**ND**	**0.50**	**0.50**	**mg/kg**	**101**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**3.9**	**SW846 8330B**
2,6-Dinitrotoluene	**ND**	**0.50**	**0.51**	**mg/kg**	**102**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**5.2**	**SW846 8330B**
HMX	**ND**	**0.50**	**0.48**	**mg/kg**	**97**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**0.31**	**SW846 8330B**
Nitrobenzene	**ND**	**0.50**	**0.49**	**mg/kg**	**100**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**97**	**2.6**	**SW846 8330B**
2-Nitrotoluene	**ND**	**0.50**	**0.49**	**mg/kg**	**98**		**SW846 8330B**
	ND	**0.50**	**0.49**	**mg/kg**	**98**	**0.02**	**SW846 8330B**
3-Nitrotoluene	**ND**	**0.50**	**0.49**	**mg/kg**	**99**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**97**	**1.3**	**SW846 8330B**
4-Nitrotoluene	**ND**	**0.50**	**0.49**	**mg/kg**	**98**		**SW846 8330B**
	ND	**0.50**	**0.49**	**mg/kg**	**98**	**0.39**	**SW846 8330B**
RDX	**ND**	**0.50**	**0.44**	**mg/kg**	**88**		**SW846 8330B**
	ND	**0.50**	**0.44**	**mg/kg**	**89**	**1.2**	**SW846 8330B**
Tetryl	**ND**	**0.50**	**0.44**	**mg/kg**	**89**		**SW846 8330B**
	ND	**0.50**	**0.43**	**mg/kg**	**87**	**1.9**	**SW846 8330B**
1,3,5-Trinitrobenzene	**ND**	**0.50**	**0.50**	**mg/kg**	**101**		**SW846 8330B**
	ND	**0.50**	**0.50**	**mg/kg**	**101**	**0.85**	**SW846 8330B**
2,4,6-Trinitrotoluene	**ND**	**0.50**	**0.46**	**mg/kg**	**94**		**SW846 8330B**
	ND	**0.50**	**0.45**	**mg/kg**	**91**	**2.1**	**SW846 8330B**
Nitroglycerin	**ND**	**0.99**	**1.0**	**mg/kg**	**103**		**SW846 8330B**
	ND	**1.0**	**1.0**	**mg/kg**	**102**	**0.19**	**SW846 8330B**
PETN	**ND**	**0.99**	**0.98**	**mg/kg**	**99**		**SW846 8330B**
	ND	**1.0**	**1.0**	**mg/kg**	**102**	**3.8**	**SW846 8330B**

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MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0C050520 **Work Order #...:** LV41M1DV-MS **Matrix.....:** SOLID
MS Lot-Sample #: A0B260454-001 LV41M1DW-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	111	(81 - 127)
	102	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/02/10 10:45 **Date Received..:** 03/03/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 21	
Nitrocellulose		WO#: LV9DA1CJ-MS/LV9DA1CK-MSD				MS Lot-Sample #: A0C030547-001	
	41	(34 - 115)			MCAWW 353.2	03/09-03/11/10	0068158
	28 N	(34 - 115)	36	(0-71)	MCAWW 353.2	03/09-03/11/10	0068158
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0C050520 **Matrix.....:** SOLID
Date Sampled...: 03/02/10 10:45 **Date Received..:** 03/03/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
							% Moisture.....: 21		
Nitrocellulose			WO#: LV9DA1CJ-MS/LV9DA1CK-MSD				MS Lot-Sample #: A0C030547-001		
	1.0	64.2	27.4	mg/kg	41		MCAWW 353.2	03/09-03/11/10	0068158
	1.0	64.1	19.1 N	mg/kg	28	36	MCAWW 353.2	03/09-03/11/10	0068158
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0C050520 **Work Order #...:** LWCCK-SMP **Matrix.....:** SOLID
LWCCK-DUP
Date Sampled...: 03/04/10 08:20 **Date Received..:** 03/05/10
% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0C050450-002		
	86.1	85.9	%	0.22	(0-20)	MCAWW 160.3 MOD	03/08-03/09/10	0067099

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0C050520 **Work Order #...:** LWCCP-SMP **Matrix.....:** SOLID
LWCCP-DUP
Date Sampled...: 03/04/10 08:40 **Date Received..:** 03/05/10
% Moisture.....: 11

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0C050450-004		
	88.8	89.2	%	0.48	(0-20)	MCAWW 160.3 MOD	03/08-03/09/10	0067099

Dilution Factor: 1

Manual Integration Addendum

North Canton

Manual Integration Record

Method ID: __8330-Nitroguanidine__ **Instrument ID:** LC-12 **Lot ID:** A0C050520 soils

Compound Name	Analysis date:										Analysis date: 3/16/10						Analysis date:							
	ICAL										Samples						Samples							
	1	2	3	4	5	6	7	8	ICV	LODV		LCS		2MS	2SD									
Nitroguanidine												X		X	X									

1374

SOLID, 8330B, Explosives

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

initial/continuing calibration standards

interference/performance check standards

initial/continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

Inst ID: LC10 Batch ID: 03102010
Method : Method 8330 Test : SOP SAC-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
10-MAR-2010	15:29	NS	8330 PRIMER	A-000001.	0 g	0 mL	1	
10-MAR-2010	16:29	NS	8330 PRIMER	A-000002.	0 g	0 mL	1	
10-MAR-2010	17:17	NS	STD_06 09GCSV0482 8330 200ng/m	A-000003.	0 g	0 mL	1	
10-MAR-2010	18:05	NS	LWDNG1AA 0065052 G0C060000-MB	A-000004.	10 g	80 mL	1	
10-MAR-2010	18:54	NS	LWDNG1AC 0065052 G0C060000-LCS	A-000005.	10 g	80 mL	1	
10-MAR-2010	19:43	NS	LV3KM1A4 0065052 A0B250463-1	A-000006.	10 g	80 mL	1	
10-MAR-2010	20:31	NS	LV3KM1A5 0065052 A0B250463-1 D	A-000007.	10.09 g	80 mL	1	NOT NEEDED, NOT TO 3/14
10-MAR-2010	21:20	NS	LV3KM1A6 0065052 A0B250463-1TR	A-000008.	10.08 g	80 mL	1	NOT NEEDED, NOT REPORTED
10-MAR-2010	22:08	NS	LV3KN1AF 0065052 A0B250463-2	A-000009.	9.98 g	80 mL	1	
10-MAR-2010	22:57	NS	LV3KP1AF 0065052 A0B250463-3	A-000010.	10.06 g	80 mL	1	
10-MAR-2010	23:45	NS	LV3KQ1A8 0065052 A0B250463-4	A-000011.	10.05 g	80 mL	1	
11-MAR-2010	00:34	NS	LV3KR1AK 0065052 A0B250463-5	A-000012.	10.03 g	80 mL	1	
11-MAR-2010	01:22	NS	LV3KT1AF 0065052 A0B250463-6	A-000013.	10.1 g	80 mL	1	
11-MAR-2010	02:11	NS	STD_05 10GCSV0072 8330 100ng/m	A-000014.	0 g	0 mL	1	
11-MAR-2010	02:59	NS	LV3KW1AF 0065052 A0B250463-7	A-000015.	10.06 g	80 mL	1	
11-MAR-2010	03:48	NS	LV3KX1AF 0065052 A0B250463-8	A-000016.	10.02 g	80 mL	1	
11-MAR-2010	04:36	NS	LV3K11AP 0065052 A0B250463-9	A-000017.	10.01 g	80 mL	1	
11-MAR-2010	05:25	NS	LV3K11AQ 0065052 A0B250463-9S	A-000018.	10.06 g	80 mL	1	
11-MAR-2010	06:13	NS	LV3K11AR 0065052 A0B250463-9D	A-000019.	10.01 g	80 mL	1	
11-MAR-2010	07:02	NS	LV3K31AF 0065052 A0B250463-10	A-000020.	10.03 g	80 mL	1	
11-MAR-2010	07:51	NS	LV3K71AF 0065052 A0B250463-11	A-000021.	10.01 g	80 mL	1	
11-MAR-2010	08:39	NS	LV3K81AF 0065052 A0B250463-12	A-000022.	10.06 g	80 mL	1	
11-MAR-2010	09:27	NS	LV3K91A4 0065052 A0B250463-13	A-000023.	10.05 g	80 mL	1	
11-MAR-2010	10:16	NS	LV3LA1AF 0065052 A0B250463-14	A-000024.	10.06 g	80 mL	1	
11-MAR-2010	11:05	NS	STD_05 10GCSV0072 8330 100ng/m	A-000025.	0 g	0 mL	1	
11-MAR-2010	11:53	NS	LV3LC1AN 0065052 A0B250463-15	A-000026.	10 g	80 mL	1	
11-MAR-2010	12:42	NS	LV3LE1AW 0065052 A0B250463-16	A-000027.	9.99 g	80 mL	1	
11-MAR-2010	13:31	NS	LV3LJ1A7 0065052 A0B250463-18	A-000028.	9.98 g	80 mL	1	
11-MAR-2010	14:19	NS	LV3LM1DM 0065052 A0B250463-20	A-000029.	10.03 g	80 mL	1	
11-MAR-2010	15:08	NS	LV3LM1DM 0065052 A0B250463-20S	A-000030.	10.05 g	80 mL	1	
11-MAR-2010	15:56	NS	LV3LM1DM 0065052 A0B250463-20D	A-000031.	10.05 g	80 mL	1	
11-MAR-2010	16:45	NS	LWFV81AA [illegible]	A-000032.	10 g	80 mL	1	
11-MAR-2010	17:33	NS	LWFV81AC [illegible]	A-000033.	10 g	80 mL	1	
11-MAR-2010	18:22	NS	LV41M1A8 [illegible]	A-000034.	10.01 g	80 mL	1	
11-MAR-2010	19:10	NS	LV41M1DV [illegible]	A-000035.	10.1 g	80 mL	1	
11-MAR-2010	19:59	NS	STD_05 10GCSV0072 8330 100ng/m	A-000036.	0 g	0 mL	1	
11-MAR-2010	20:47	NS	LV41M1DW 0068272 A0B260454-1D	A-000037.	10.03 g	80 mL	1	
11-MAR-2010	21:36	NS	LV41R1AK 0068272 A0B260454-2	A-000038.	10.12 g	80 mL	1	
11-MAR-2010	22:24	NS	LV41V1A4 0068272 A0B260454-3	A-000039.	10.38 g	80 mL	1	
11-MAR-2010	23:13	NS	LV4121AF 0068272 A0B260454-4	A-000040.	10.24 g	80 mL	1	
12-MAR-2010	00:01	NS	LV4141AM 0068272 A0B260454-5	A-000041.	10.09 g	80 mL	1	
12-MAR-2010	00:50	NS	LV4141A6 0068272 A0B260454-5 D	A-000042.	10.17 g	80 mL	1	NOT NEEDED, NOT TO 3/11
12-MAR-2010	01:38	NS	LV4141A7 0068272 A0B260454-5 T	A-000043.	10.1 g	80 mL	1	NOT NEEDED, NOT REPORTED
12-MAR-2010	02:27	NS	LV42P1A8 0068272 A0B260454-8	A-000044.	10.03 g	80 mL	1	
12-MAR-2010	03:15	NS	LV42V1A6 0068272 A0B260454-9	A-000045.	10.24 g	80 mL	1	
12-MAR-2010	04:03	NS	LV42W1A8 0068272 A0B260454-10	A-000046.	10.12 g	80 mL	1	
12-MAR-2010	04:52	NS	STD_05 10GCSV0072 8330 100ng/m	A-000047.	0 g	0 mL	1	
12-MAR-2010	05:40	NS	LV4211AH 0068272 A0B260454-11	A-000048.	10.51 g	80 mL	1	
12-MAR-2010	06:29	NS	LV43E1A8 0068272 A0B260454-16	A-000049.	10.1 g	80 mL	1	
12-MAR-2010	07:17	NS	LWCWH1A4 0068272 A0C050520-1	A-000050.	10.5 g	80 mL	1	

Sequence continued on next page

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GC/LC INSTRUMENT LOG

Page 2 of Batch 03102010 on Instrument LC10
For header information, refer to the first page of this batch's log.

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
12-MAR-2010	08:06	NS	LWQWJ1A2 0062070 A0C050520-2	A-000051.	10.67 g	80 mL	1	
12-MAR-2010	08:54	NS	LWA2A1AA 0064081 G0C050000-MB	A-000052.	1000 mL	20 mL	1	
12-MAR-2010	09:43	NS	LWA2A1AD 0064081 G0C050000-FB	A-000053.	1000 mL	20 mL	1	
12-MAR-2010	10:31	NS	LWA2A1AC 0064081 G0C050000-LCS	A-000054.	1000 mL	20 mL	1	
12-MAR-2010	11:20	NS	LV84V1AA 0064081 C0C030509-1	A-000055.	1011.97 mL	20 mL	1	
12-MAR-2010	12:08	NS	LV84V1AC 0064081 C0C030509-1S	A-000056.	1020.77 mL	20 mL	1	
12-MAR-2010	12:57	NS	LV84V1AD 0064081 C0C030509-1D	A-000057.	1008.53 mL	20 mL	1	
12-MAR-2010	13:45	NS	STD_05 10GCSV0072 8330 100ng/m	A-000058.	0 g	0 mL	1	
12-MAR-2010	14:34	NS	LV8411AE 0064081 C0C030509-3	A-000059.	1001.62 mL	20 mL	1	
12-MAR-2010	15:23	NS	LV8431AE 0064081 C0C030509-4	A-000060.	994.64 mL	20 mL	1	
12-MAR-2010	16:11	NS	LV8441AE 0064081 C0C030509-5	A-000061.	997.42 mL	20 mL	1	
12-MAR-2010	17:00	NS	LV8481AA 0064081 C0C030509-7	A-000062.	996.43 mL	20 mL	1	
12-MAR-2010	17:48	NS	LV85E1AA 0064081 C0C030509-10	A-000063.	1016.81 mL	20 mL	1	
12-MAR-2010	18:37	NS	LV85G1AC 0064081 C0C030509-11	A-000064.	1019.78 mL	20 mL	1	
12-MAR-2010	19:25	NS	LV85H1AD 0064081 C0C030509-12	A-000065.	1012.38 mL	20 mL	1	
12-MAR-2010	20:14	NS	LWA751AA 0064140 G0C050000-MB	A-000066.	1000 mL	20 mL	1	
12-MAR-2010	21:02	NS	LWA751AC 0064140 G0C050000-LCS	A-000067.	1000 mL	20 mL	1	
12-MAR-2010	21:51	NS	LV7MC1A5 0064140 A0C020458-13	A-000068.	1003.86 mL	20 mL	1	
12-MAR-2010	22:39	NS	STD_05 10GCSV0072 8330 100ng/m	A-000069.	0 g	0 mL	1	
12-MAR-2010	23:28	NS	LV7ML1AG 0064140 A0C020458-14	A-000070.	1018.15 mL	20 mL	1	
13-MAR-2010	00:16	NS	LV7MM1AT 0064140 A0C020458-15	A-000071.	984.56 mL	20 mL	1	
13-MAR-2010	01:05	NS	LV7MN1A5 0064140 A0C020458-16	A-000072.	974 mL	20 mL	1	
13-MAR-2010	01:53	NS	LV7MR1A5 0064140 A0C020458-18	A-000073.	1006.24 mL	20 mL	1	
13-MAR-2010	02:41	NS	STD_05 10GCSV0072 8330 100ng/m	A-000074.	0 g	0 mL	1	

TestAmerica West Sacramento

A-000025.D

Chromatography Summary

Injection Date: 3/11/2010 11:05 **Operator:** NS

DataFile: LC10.I\03102010.B\A-000025.D **Vial Num:** 3

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03102010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.45	4767	98.8500<	100	-1%	Acceptable		18.45	9804	100.4000	100	0%	Acceptable		(±15)	
HMX	5.46	13239	99.3800<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
RDX	8.00	9338	103.5000<	100	4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Picric ACID	9.24	18744	213.8000	200	7%	Acceptable		9.24	27653	214.9000<	200	7%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.53	16265	101.1000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
1,3-Dinitrobenzene	13.51	15776	100.5000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
TETRYL	14.93	8198	93.3700<	100	-7%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitrobenzene	15.34	6991	94.4300<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4,6-Trinitrotoluene	17.17	9066	94.8800<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-AM-2,6-DNT	17.91	6955	97.5700<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-AM-4,6-DNT	19.02	7873	97.0000<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,6-Dinitrotoluene	20.70	5441	96.0800<	100	-4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4-Dinitrotoluene	21.47	8880	96.6500<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-Nitrotoluene	24.99	3811	93.5700<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-Nitrotoluene	26.96	4636	95.1700<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
3-Nitrotoluene	29.02	4500	93.7300<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitroglycerin				**100**	**-100%**	**Fails**		16.19	6362	101.5000<	100	2%	Acceptable		(±15)	45
PETN				**100**	**-100%**	**Fails**		32.34	2903	91.8300<	100	-8%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.40	10288	99.9000<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
EGDN				**100**	**-100%**	**Fails**					**100**	**-100%**	**Fails**		(±15)	

m 3/11/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/11/2010 4:39 PM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000025.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 11:05
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

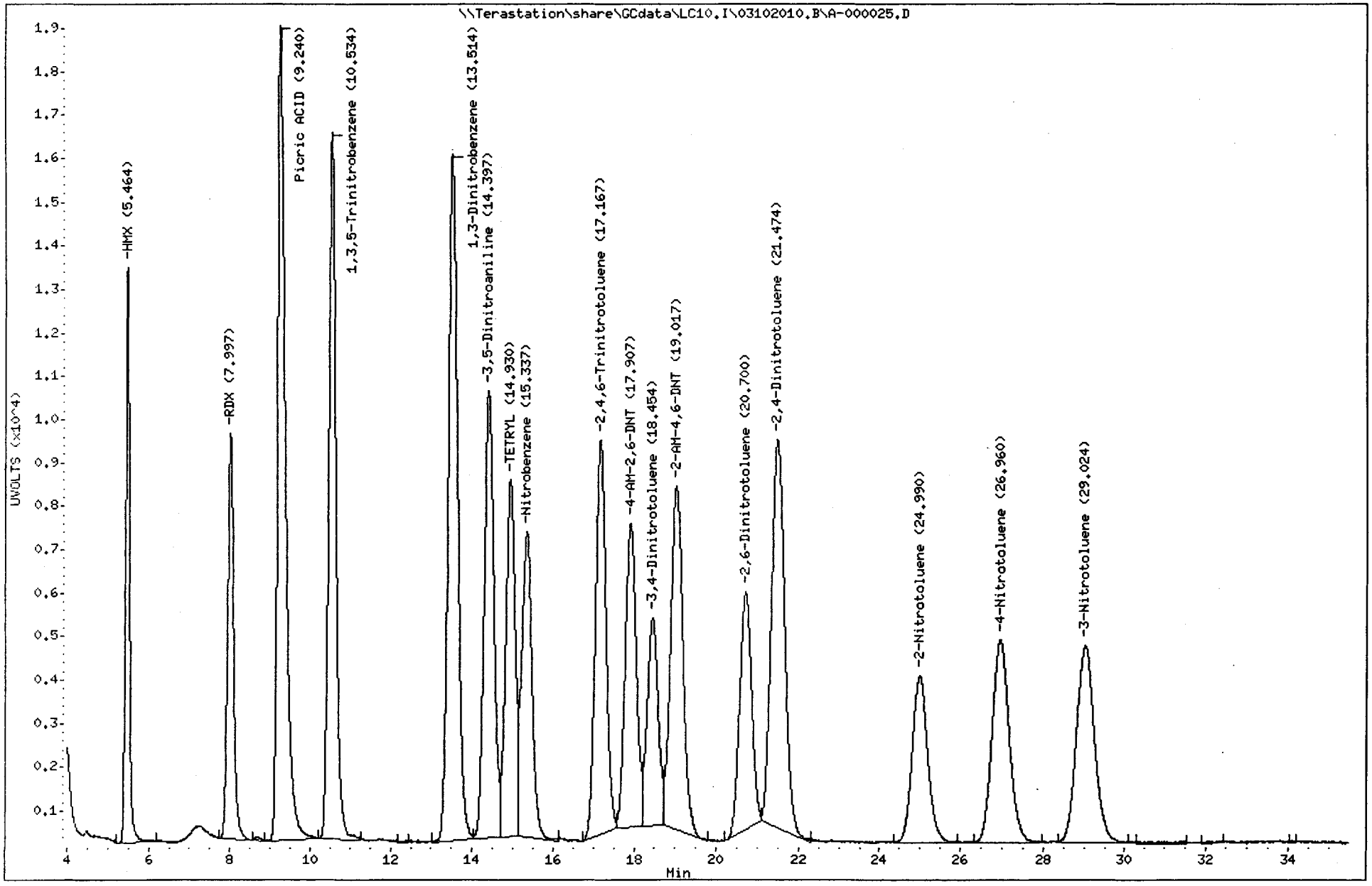
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.464	84809	13239	0.156	8.54		2 HMX
7.997	96633	9338	0.097	6.02		3 RDX
8.710	881	88	0.100	0.05		
9.240	251407	18744	0.075	12.22		5 Picric ACID
10.534	205687	16265	0.079	10.49		6 1,3,5-Trinitrobenze
12.200	351	27	0.077	0.01		
13.514	247006	15776	0.064	10.17		7 1,3-Dinitrobenzene
14.397	168690	10288	0.061	6.63		8 3,5-Dinitroaniline
14.930	132846	8198	0.062	5.28		9 TETRYL
15.337	124250	6991	0.056	4.50		10 Nitrobenzene
17.167	162117	9066	0.056	5.84		12 2,4,6-Trinitrotolue
17.907	131318	6955	0.053	4.48		13 4-AM-2,6-DNT
18.454	88647	4767	0.054	3.07	$	1 3,4-Dinitrotoluene
19.017	163739	7873	0.048	5.07		14 2-AM-4,6-DNT
20.700	110843	5441	0.049	3.51		15 2,6-Dinitrotoluene
21.474	194836	8880	0.046	5.72		16 2,4-Dinitrotoluene
24.990	100033	3811	0.038	2.45		17 2-Nitrotoluene
26.960	131398	4636	0.035	2.99		18 4-Nitrotoluene
29.024	136529	4500	0.033	2.90		19 3-Nitrotoluene
30.364	1996	46	0.023	0.02		
32.097	868	40	0.046	0.02		
34.104	177	44	0.248	0.02		
	2535060	155013		100.000		

Total unknown % height = 0.1200

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000025.D
Date : 11-MAR-2010 11:05
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000025.D\A-000025
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 11:05
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

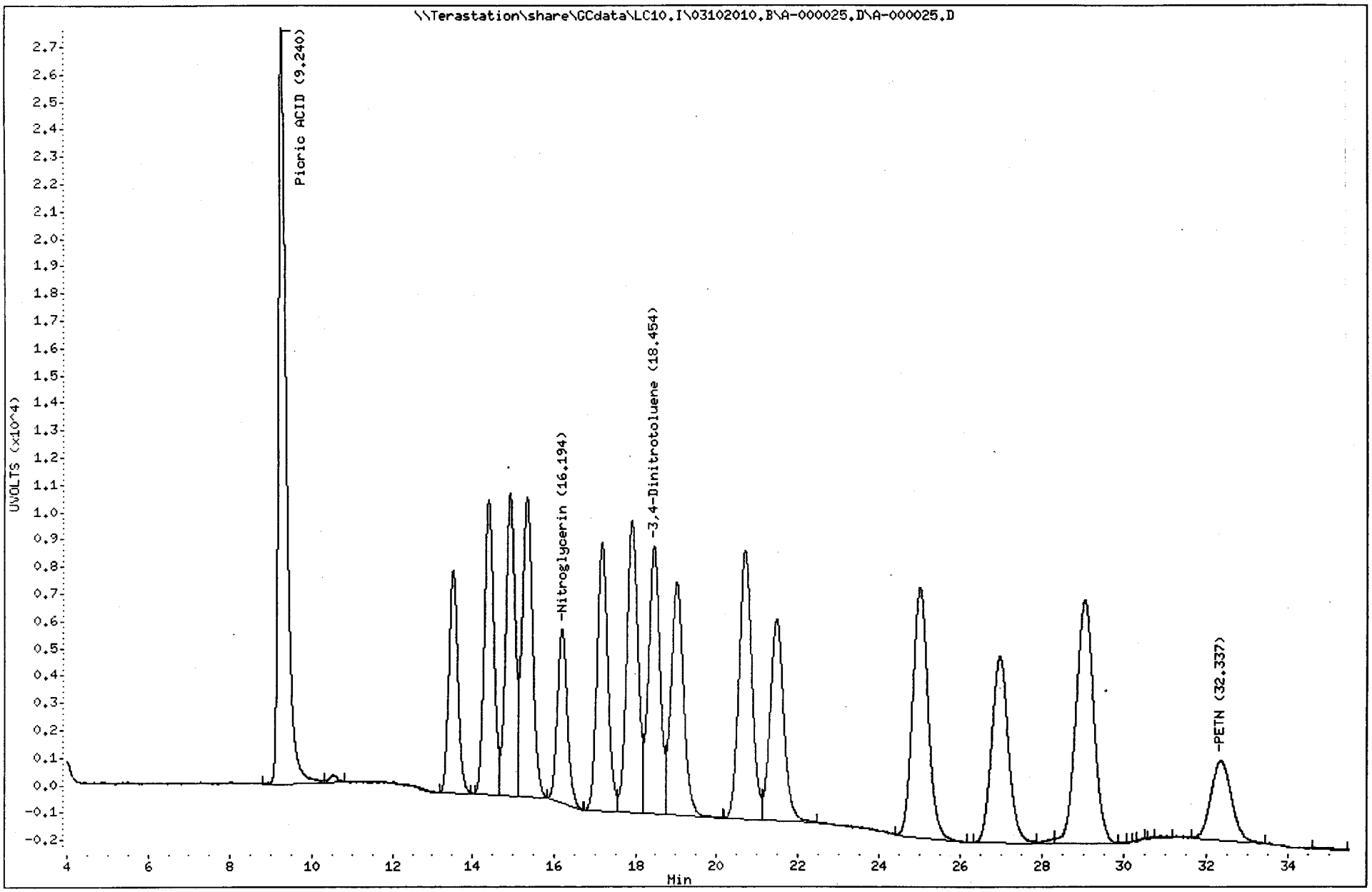
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.240	372517	27653	0.074	17.45		5 Picric ACID
10.517	3942	282	0.072	0.17		
13.517	125971	8162	0.065	5.11		
14.397	176632	10791	0.061	6.76		
14.930	178879	11088	0.062	6.94		
15.337	194801	10971	0.056	6.87		
16.194	108303	6362	0.059	3.98		11 Nitroglycerin
17.167	180980	9845	0.054	6.17		
17.904	211177	10688	0.051	6.69		
18.454	191932	9804	0.051	6.14	$	1 3,4-Dinitrotoluene
19.014	185352	8529	0.046	5.34		
20.704	215506	9838	0.046	6.16		
21.477	172143	7371	0.043	4.61		
24.984	240545	9144	0.038	5.73		
26.960	192669	6788	0.035	4.25		
28.304	2532	175	0.069	0.10		
29.024	267768	8889	0.033	5.57		
30.140	159	17	0.107	0.01		
30.444	370	26	0.070	0.01		
30.674	411	78	0.190	0.04		
30.847	1339	86	0.064	0.05		
32.337	100178	2903	0.029	1.81		20 PETN
34.884	1809	66	0.036	0.04		
	3125916	159556		100.000		

Total unknown % height = 70.62

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000025.D\A-000025.D
Date : 11-MAR-2010 11:05
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

A-000032.D

Chromatography Summary

Injection Date: 3/11/2010 16:45 **Operator:** NS

DataFile: LC10.I\03102010.B\A-000032.D **Vial Num:** 37

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LWFV51AA 0068272 G0C090000-MB**

Method File: LC10.I\03102010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LWFV51AA 0068272 G0C090000-MB;0

Misc. Info: ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.46**	**0.043**	**3244**	**538.2000<**		**18.45**	**0.037**	**6304**	**516.6000**		**0.0000**	**0.00**	
HMX											12.1000	250.00	
RDX											12.0000	250.00	
Picric ACID											100.0000	1000.00	
1,3,5-Trinitrobenzene											10.0000	250.00	
1,3-Dinitrobenzene											4.2000	250.00	
TETRYL											10.0000	250.00	
Nitrobenzene											17.6000	250.00	
2,4,6-Trinitrotoluene											19.4000	250.00	
4-AM-2,6-DNT											10.0000	250.00	
2-AM-4,6-DNT											12.5000	300.00	
2,6-Dinitrotoluene											7.3000	250.00	
2,4-Dinitrotoluene											5.3000	250.00	
2-Nitrotoluene											13.0000	250.00	
4-Nitrotoluene											18.2000	500.00	
3-Nitrotoluene											15.5000	250.00	
Nitroglycerin											15.0000	500.00	
PETN											25.0000	500.00	
3,5-Dinitroaniline											8.8000	1300.00	

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**538.2000**	**108**	**500.0000**	**516.6000**	**103**	**(81-127)**

M 3/12/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/12/2010 11:52 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000032.D
Lab Smp Id: LWFV51AA 0068272 G0
Inj Date : 11-MAR-2010 16:45
Operator : NS Inst ID: LC10.i
Smp Info : LWFV51AA 0068272 G0C090000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 16:39 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 37
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

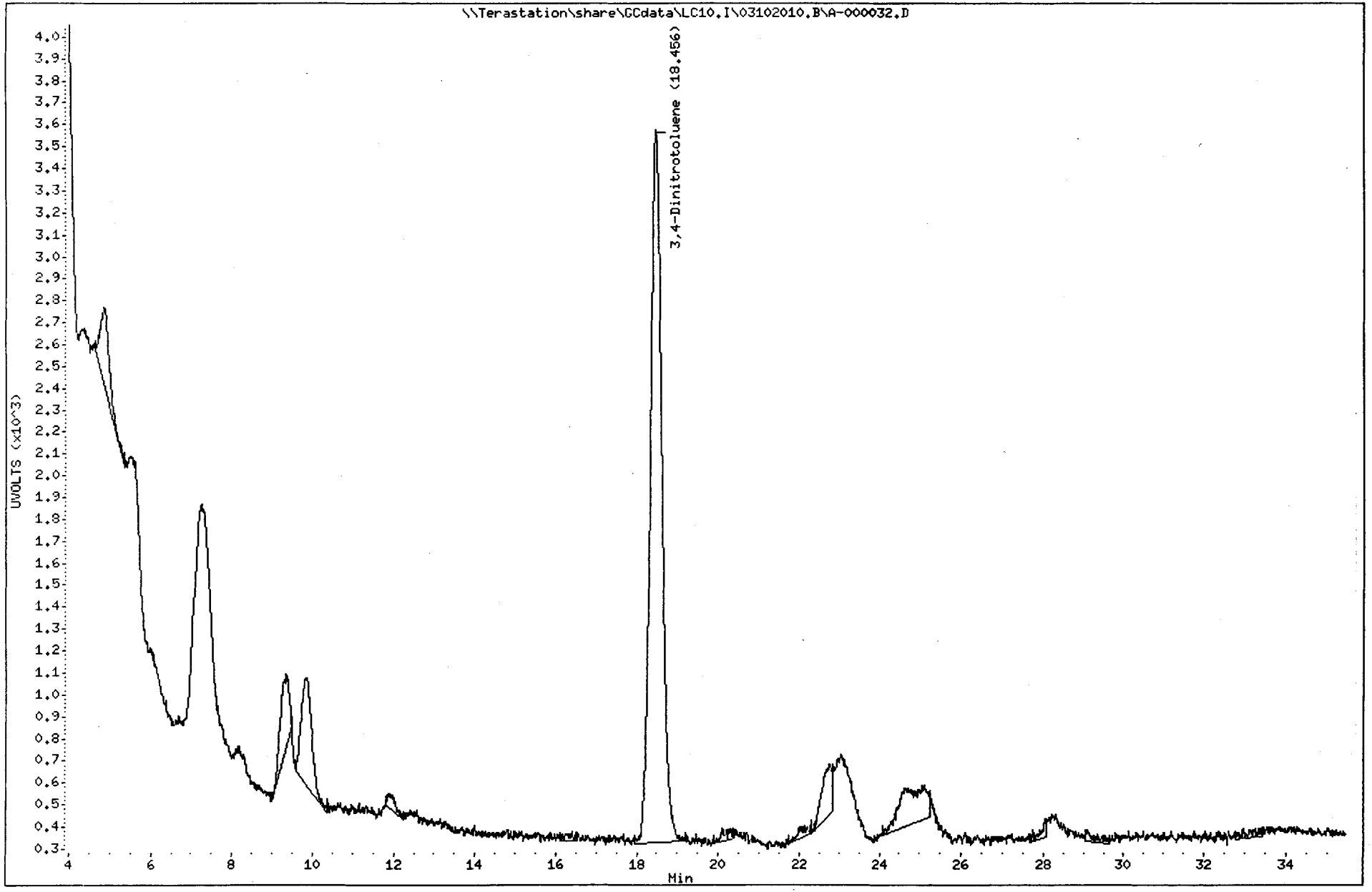
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
4.849	4993	342	0.068	6.45	
9.293	4965	338	0.068	6.37	
9.856	8823	488	0.055	9.20	
11.900	946	67	0.071	1.26	
16.240	569	34	0.060	0.64	
18.456	63812	3244	0.051	61.28	$ 1 3,4-Dinitrotoluene
20.110	803	58	0.072	1.09	
22.093	756	51	0.067	0.96	
22.760	4016	228	0.057	4.30	
24.663	7191	173	0.024	3.26	
27.743	139	51	0.366	0.96	
28.050	603	83	0.138	1.56	
29.116	875	57	0.065	1.07	
32.973	653	44	0.067	0.83	
33.383	203	41	0.202	0.77	
	99348	5299		100.000	

Total unknown % height = 38.72

Data File: \\Terastation\share\GCdata\LC10,I\03102010,B\A-000032.D
Date : 11-MAR-2010 16:45
Client ID:
Sample Info: LWFV51AA 0068272 GOC090000-MB;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000032.D\A-000032
Lab Smp Id: LWFV51AA 0068272 G0
Inj Date : 11-MAR-2010 16:45
Operator : NS Inst ID: LC10.i
Smp Info : LWFV51AA 0068272 G0C090000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 37
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

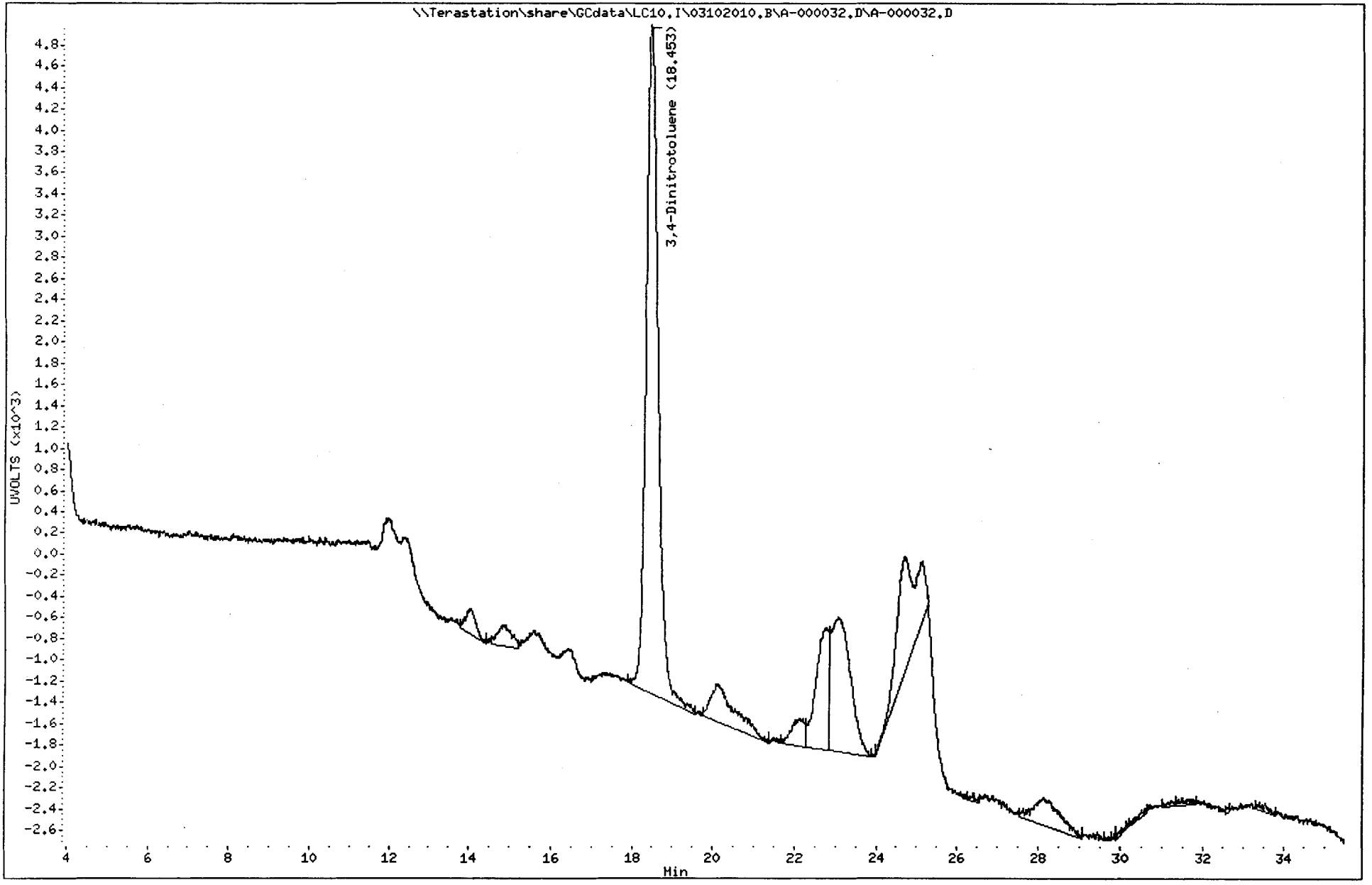
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
14.003	4096	243	0.059	2.08	
14.896	4615	199	0.043	1.70	
18.453	128382	6304	0.049	54.23	$ 1 3,4-Dinitrotoluene
20.113	14813	363	0.025	3.11	
22.113	5739	259	0.045	2.22	
22.760	25203	1149	0.046	9.86	
23.060	40965	1264	0.031	10.85	
24.673	37131	1104	0.030	9.47	
26.416	551	77	0.140	0.66	
28.130	11358	257	0.023	2.20	
29.716	162	39	0.241	0.33	
30.123	566	71	0.125	0.60	
30.576	828	54	0.065	0.46	
31.213	602	58	0.096	0.49	
31.476	1133	76	0.067	0.65	
32.639	251	50	0.199	0.42	
33.406	1125	79	0.070	0.67	
	277519	11646		100.000	

Total unknown % height = 45.77

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000032.D\A-000032.D
Date : 11-MAR-2010 16:45
Client ID:
Instrument: LC10.i
Sample Info: LWFV51AA 0068272 GOC090000-MB;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



TestAmerica West Sacramento

A-000033.D

Chromatography Summary

Injection Date: 3/11/2010 17:33 **Operator:** NS

DataFile: LC10.I\03102010.B\A-000033.D **Vial Num:** 38

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LWFV51AC 0068272 G0C090000-LCS** **Method File:** LC10.I\03102010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:** SOLIDBQSM.sp

Samp. Info: LWFV51AC 0068272 G0C090000-LCS;3

Misc. Info: LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.46	3072	509.6000<	500	102%	Acceptable		18.46	6297	516.0000	500	103%	Acceptable		(81-127)	
HMX	5.46	8426	506.0000<	500	101%	Acceptable					500	0%	Fails		(75-125)	45
RDX	8.00	5693	504.8000<	500	101%	Acceptable					500	0%	Fails		(70-135)	45
Picric ACID				5000	0%	Fails					5000	0%	Fails		(70-130)	
1,3,5-Trinitrobenzene	10.54	10090	501.8000<	500	100%	Acceptable					500	0%	Fails		(75-125)	45
1,3-Dinitrobenzene	13.51	9766	497.6000<	500	100%	Acceptable					500	0%	Fails		(80-125)	45
TETRYL	14.93	4808	438.1000<	500	88%	Acceptable					500	0%	Fails		(10-150)	45
Nitrobenzene	15.34	4485	484.6000<	500	97%	Acceptable					500	0%	Fails		(75-125)	45
2,4,6-Trinitrotoluene	17.17	5428	454.4000<	500	91%	Acceptable					500	0%	Fails		(55-140)	45
4-AM-2,6-DNT	17.92	4284	480.8000<	500	96%	Acceptable					500	0%	Fails		(80-125)	45
2-AM-4,6-DNT	19.03	4897	482.7000<	500	97%	Acceptable					500	0%	Fails		(80-125)	45
2,6-Dinitrotoluene	20.72	3404	480.9000<	500	96%	Acceptable					500	0%	Fails		(80-120)	45
2,4-Dinitrotoluene	21.49	5522	480.8000<	500	96%	Acceptable					500	0%	Fails		(80-125)	45
2-Nitrotoluene	25.01	2703	530.9000<	500	106%	Acceptable					500	0%	Fails		(80-125)	45
4-Nitrotoluene	26.97	3013	494.8000<	500	99%	Acceptable					500	0%	Fails		(75-125)	45
3-Nitrotoluene	29.05	2958	492.9000<	500	99%	Acceptable					500	0%	Fails		(75-120)	45
Nitroglycerin				1000	0%	Fails		16.20	7918	1010.0000<	1000	101%	Acceptable		(74-112)	45
PETN				1000	0%	Fails		32.39	3792	959.6000<	1000	96%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14.40	6293	488.9000<	500	98%	Acceptable					500	0%	Fails		(40-140)	45

m 3/12/10

Surrogates:	Spiked	Recovered	%Rec	Spiked	Recovered	%Rec	Limits
3,4-Dinitrotoluene	500.0000	509.6000	102	500.0000	516.0000	103	(81-127)

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/12/2010 11:53 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000033.D
Lab Smp Id: LWFV51AC 0068272 G0
Inj Date : 11-MAR-2010 17:33
Operator : NS Inst ID: LC10.i
Smp Info : LWFV51AC 0068272 G0C090000-LCS;3
Misc Info : LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 16:39 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 38 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

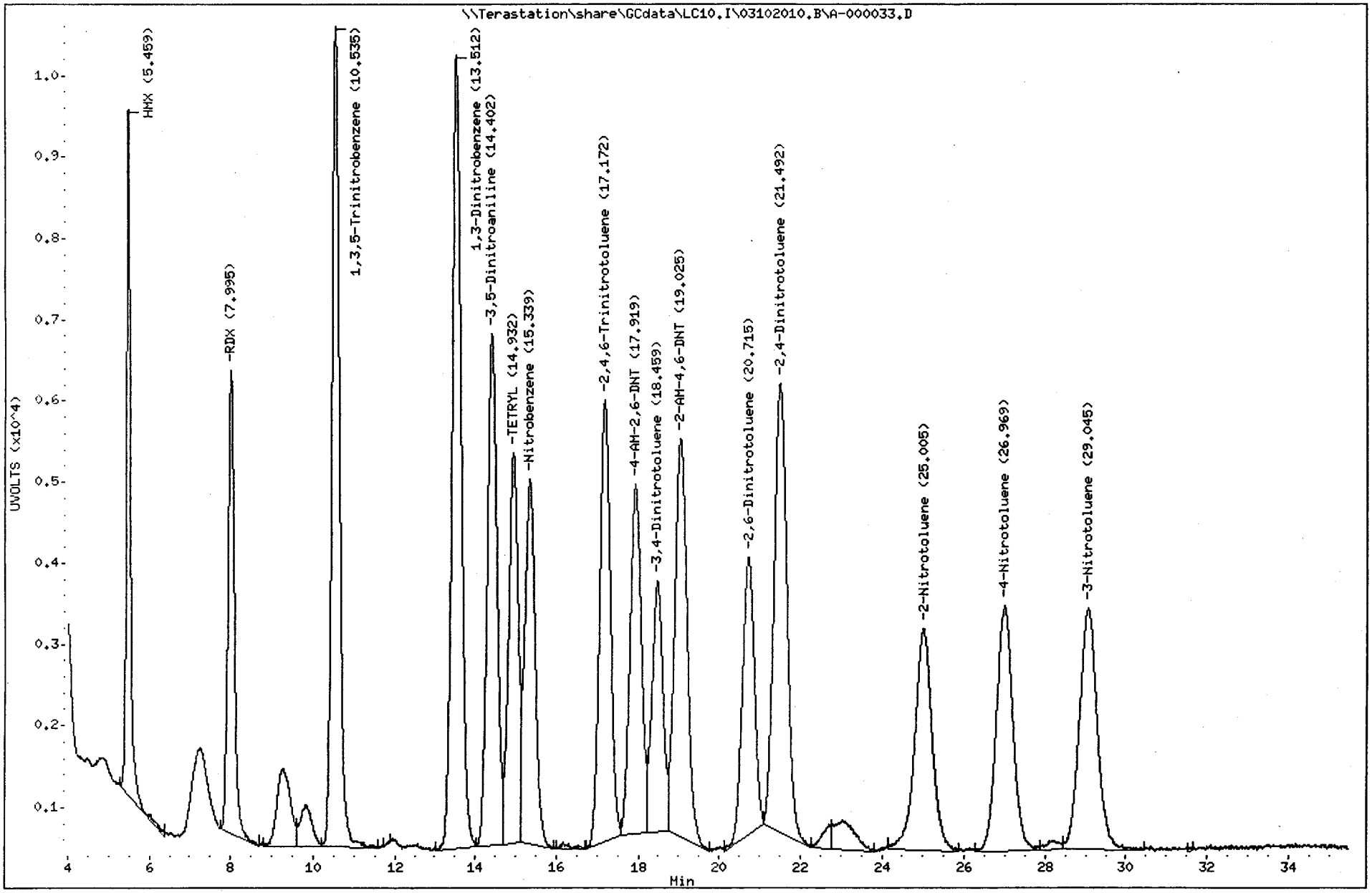
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.459	58106	8426	0.145	9.65		2	HMX
7.995	61113	5693	0.093	6.52		3	RDX
9.265	21650	952	0.044	1.09			
9.825	9966	504	0.051	0.57			
10.535	130093	10090	0.078	11.66		6	1,3,5-Trinitrobenze
11.845	147	30	0.204	0.03			
13.512	155762	9766	0.063	11.19		7	1,3-Dinitrobenzene
14.402	105346	6293	0.060	7.21		8	3,5-Dinitroaniline
14.932	78181	4808	0.061	5.51		9	TETRYL
15.339	80219	4485	0.056	5.14		10	Nitrobenzene
16.172	1404	84	0.060	0.09			
17.172	97581	5428	0.056	6.22		12	2,4,6-Trinitrotolue
17.919	82186	4284	0.052	4.91		13	4-AM-2,6-DNT
18.459	57842	3072	0.053	3.52	$	1	3,4-Dinitrotoluene
19.025	102598	4897	0.048	5.61		14	2-AM-4,6-DNT
20.715	70079	3404	0.049	3.90		15	2,6-Dinitrotoluene
21.492	121618	5522	0.045	6.32		16	2,4-Dinitrotoluene
22.719	4203	297	0.071	0.34			
23.039	13041	364	0.028	0.41			
25.005	79240	2703	0.034	3.09		17	2-Nitrotoluene
26.969	85855	3013	0.035	3.45		18	4-Nitrotoluene
28.172	2638	118	0.045	0.13			
29.045	91019	2958	0.032	3.39		19	3-Nitrotoluene
31.605	260	52	0.200	0.05			

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
	1510146	87243		100.000	

Total unknown % height = 2.710

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000033.D
Date : 11-MAR-2010 17:33
Client ID:
Sample Info: LWFV51AC 0068272 G0C090000-LCS;3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000033.D\A-000033
Lab Smp Id: LWFV51AC 0068272 G0
Inj Date : 11-MAR-2010 17:33
Operator : NS Inst ID: LC10.i
Smp Info : LWFV51AC 0068272 G0C090000-LCS;3
Misc Info : LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 38 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

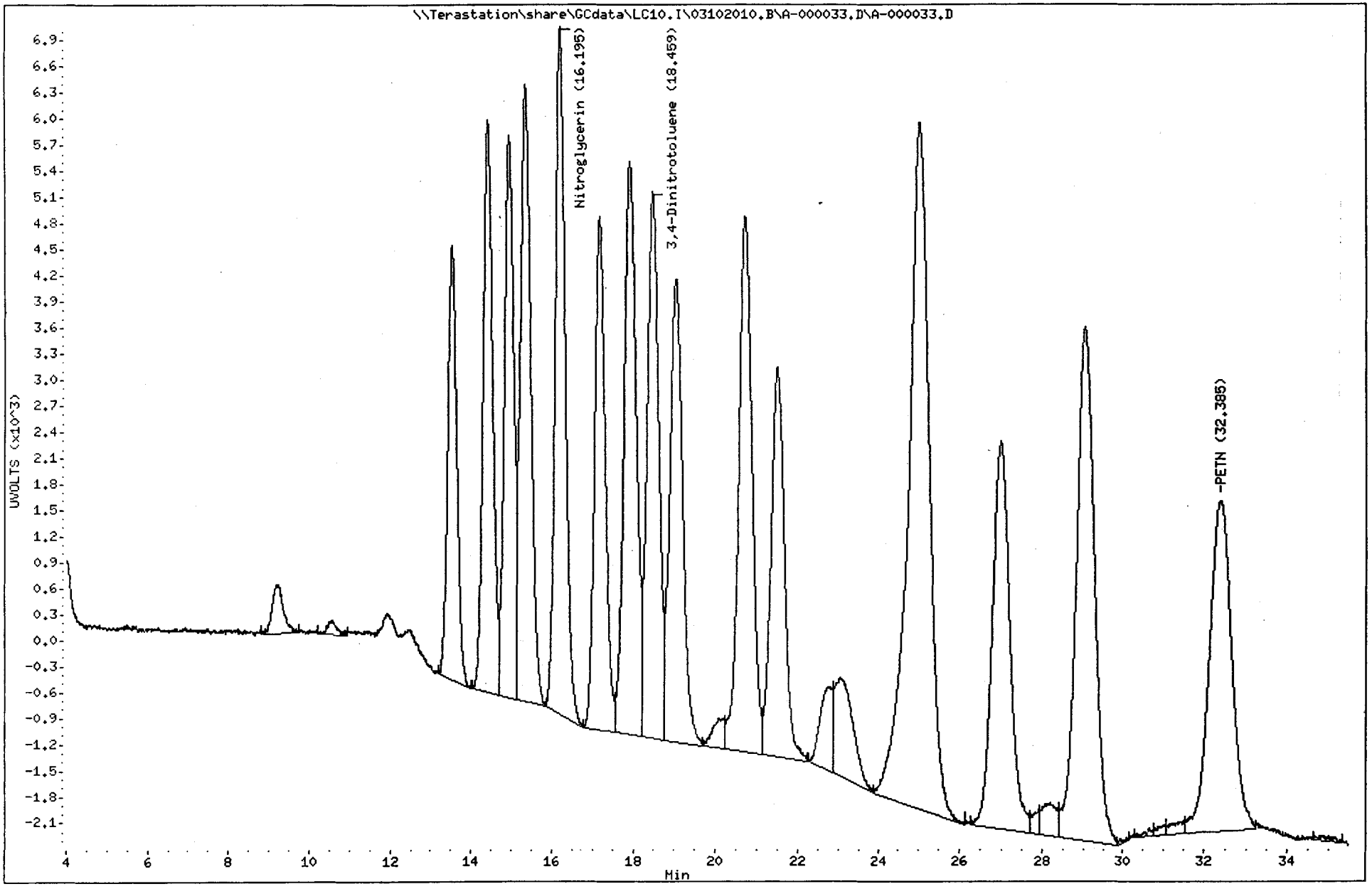
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.225	11191	571	0.051	0.60		
10.549	2724	171	0.063	0.18		
13.512	77502	5005	0.065	5.31		
14.402	109509	6585	0.060	6.99		
14.932	103979	6473	0.062	6.87		
15.342	129062	7102	0.055	7.53		
16.195	136768	7918	0.058	8.55		11 Nitroglycerin
17.172	109383	5916	0.054	6.27		
17.915	131629	6599	0.050	7.00		
18.459	124711	6297	0.050	6.68	$	1 3,4-Dinitrotoluene
19.039	116262	5328	0.046	5.65		
20.095	6707	342	0.051	0.36		
20.709	138195	6160	0.045	6.53		
21.489	101962	4483	0.044	4.75		
22.742	20001	958	0.048	1.01		
23.042	36377	1130	0.031	1.19		
25.005	281110	7893	0.028	8.37		
26.965	131000	4452	0.034	4.72		
27.899	3166	276	0.087	0.29		
28.205	9052	375	0.041	0.39		
29.045	184895	5913	0.032	6.27		
30.082	530	52	0.098	0.05		
30.649	1113	90	0.081	0.09		
31.035	1659	120	0.072	0.12		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
31.442	3367	142	0.042	0.15	
32.385	139203	3792	0.027	4.02	20 PETN
34.835	1610	62	0.039	0.06	
	2112667	94205		100.000	

Total unknown % height = 80.75

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000033.D\A-000033.D
Date : 11-MAR-2010 17:33
Client ID:
Instrument: LC10.i
Sample Info: LWFV51AC 0068272 G0C090000-LCS;3
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



TestAmerica West Sacramento

A-000036.D

Chromatography Summary

Method 8330 Target Analyte Results

Injection Date: 3/11/2010 19:59 **Operator:** NS

DataFile: LC10.I\03102010.B\A-000036.D **Vial Num:** 4

Instrument ID: LC10

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03102010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.46	5116	106.1000<	100	6%	Acceptable		18.46	9793	100.3000	100	0%	Acceptable		(±15)	
HMX	5.46	13221	99.2400<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
RDX	7.99	9254	102.6000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID	9.24	18683	213.1000	200	7%	Acceptable		9.24	27578	214.3000<	200	7%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.53	16190	100.6000<	100	1%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.51	15696	99.9600<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	14.92	8301	94.5400<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	15.33	7343	99.1800<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.17	9179	96.0600<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	17.91	7240	101.6000<	100	2%	Acceptable					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.02	8105	99.8600<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	20.71	5670	100.1000<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.49	9161	99.7100<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	25.00	3954	97.0800<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
4-Nitrotoluene	26.98	4768	97.8800<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
3-Nitrotoluene	29.06	4657	97.0000<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				100	-100%	Fails		16.19	6282	100.2000<	100	0%	Acceptable		(±15)	45
PETN				100	-100%	Fails		32.37	3163	100.0000<	100	0%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.39	10297	99.9900<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				100	-100%	Fails					100	-100%	Fails		(±15)	

MR 3/12/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/12/2010 11:54 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000036.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 19:59
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 20:42 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

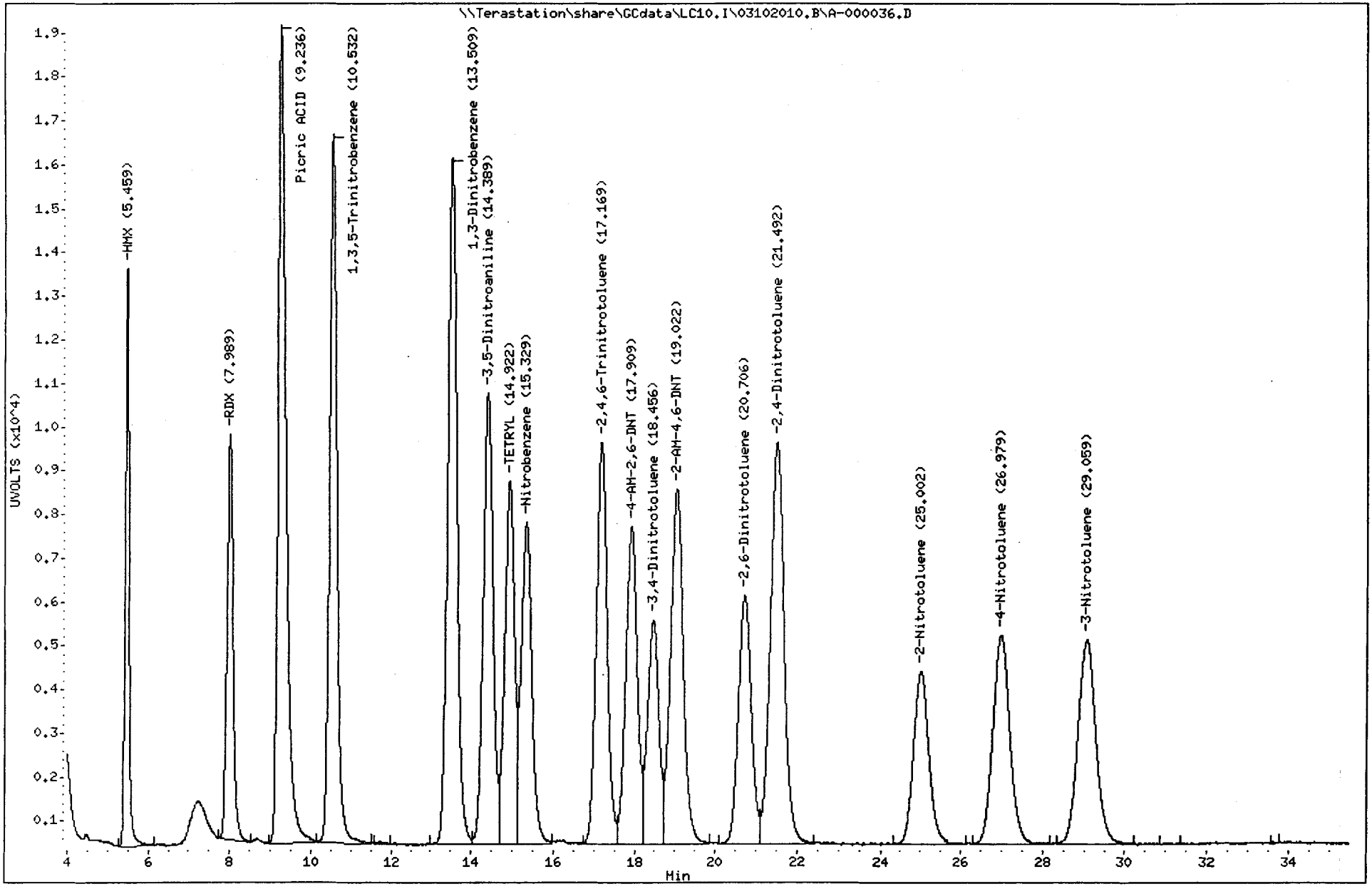
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.459	84663	13221	0.156	8.42		2	HMX
7.989	95259	9254	0.097	5.89		3	RDX
9.236	249956	18683	0.075	12.01		5	Picric ACID
10.532	206695	16190	0.078	10.31		6	1,3,5-Trinitrobenze
11.722	757	60	0.079	0.03			
13.509	247847	15696	0.063	9.99		7	1,3-Dinitrobenzene
14.389	172254	10297	0.060	6.55		8	3,5-Dinitroaniline
14.922	136077	8301	0.061	5.28		9	TETRYL
15.329	132290	7343	0.056	4.67		10	Nitrobenzene
17.169	170338	9179	0.054	5.84		12	2,4,6-Trinitrotolue
17.909	144692	7240	0.050	4.61		13	4-AM-2,6-DNT
18.456	99543	5116	0.051	3.25	$	1	3,4-Dinitrotoluene
19.022	176452	8105	0.046	5.16		14	2-AM-4,6-DNT
20.706	124383	5670	0.046	3.61		15	2,6-Dinitrotoluene
21.492	212533	9161	0.043	5.83		16	2,4-Dinitrotoluene
25.002	104768	3954	0.038	2.51		17	2-Nitrotoluene
26.979	136310	4768	0.035	3.03		18	4-Nitrotoluene
29.059	143047	4657	0.033	2.96		19	3-Nitrotoluene
31.012	575	48	0.083	0.03			
33.599	273	43	0.158	0.02			
	2638715	156986		100.000			

Total unknown % height = 0.08000

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000036.D
Date : 11-MAR-2010 19:59
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000036.D\A-000036
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 19:59
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 20:43 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

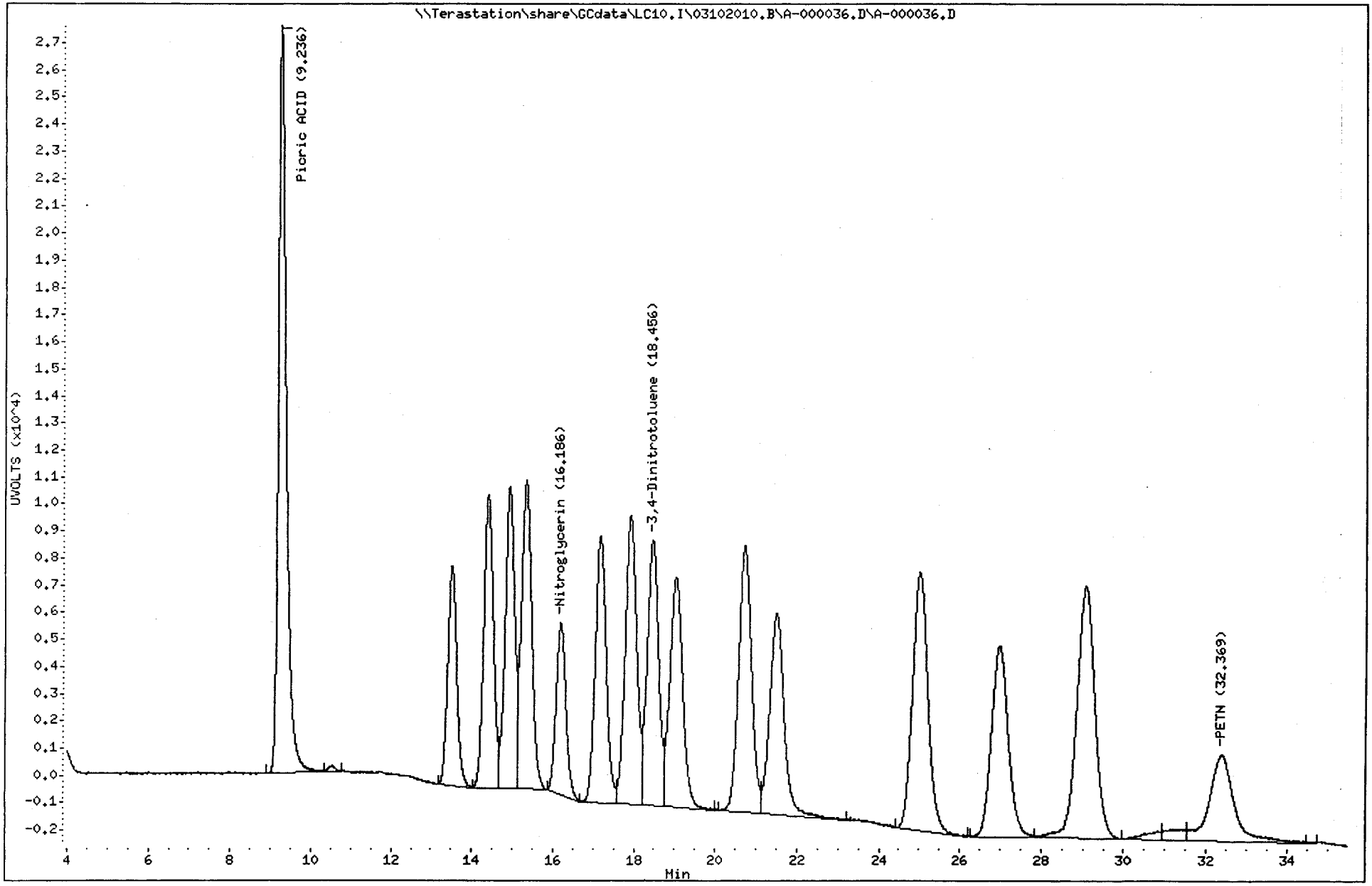
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.236	368672	27578	0.075	17.24		5 Picric ACID
10.542	2775	245	0.088	0.15		
13.506	125610	8082	0.064	5.02		
14.389	178223	10765	0.060	6.68		
14.922	180182	11104	0.062	6.89		
15.332	203089	11371	0.056	7.06		
16.186	106160	6282	0.059	3.90		11 Nitroglycerin
17.169	181853	9821	0.054	6.10		
17.909	210281	10623	0.051	6.60		
18.456	194059	9793	0.050	6.08	$	1 3,4-Dinitrotoluene
19.022	183936	8479	0.046	5.26		
20.709	216748	9784	0.045	6.07		
21.492	178856	7403	0.041	4.59		
24.999	249638	9483	0.038	5.89		
26.979	197710	6970	0.035	4.33		
29.046	285316	9232	0.032	5.73		
30.809	9446	318	0.034	0.19		
31.146	12893	393	0.030	0.24		
32.369	135500	3163	0.023	1.96		20 PETN
34.646	390	46	0.118	0.02		
	3221337	160935		100.000		

Total unknown % height = 70.82

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000036.D\A-000036.D
Date : 11-MAR-2010 19:59
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



1401

North Canton

TestAmerica West Sacramento

A-000047.D

Chromatography Summary

Injection Date: 3/12/2010 4:52 **Operator:** NS

DataFile: LC10.I\03102010.B\A-000047.D **Vial Num:** 4

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03102010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.41	5146	106.7000<	100	7%	Acceptable		18.42	9759	99.9700	100	0%	Acceptable		(±15)	
HMX	5.46	13364	100.3000<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
RDX	7.99	9317	103.3000<	100	3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Picric ACID	9.23	18831	214.8000	200	7%	Acceptable		9.23	27821	216.2000<	200	8%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.52	16295	101.3000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
1,3-Dinitrobenzene	13.49	15830	100.8000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
TETRYL	14.90	8374	95.3700<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitrobenzene	15.31	7223	97.5600<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4,6-Trinitrotoluene	17.14	9283	97.1500<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-AM-2,6-DNT	17.86	7334	102.9000<	100	3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-AM-4,6-DNT	18.97	8190	100.9000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,6-Dinitrotoluene	20.66	5749	101.5000<	100	2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4-Dinitrotoluene	21.44	9245	100.6000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-Nitrotoluene	24.94	3869	95.0000<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-Nitrotoluene	26.89	4716	96.8200<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
3-Nitrotoluene	28.97	4606	95.9400<	100	-4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitroglycerin				**100**	**-100%**	**Fails**		16.16	6362	101.5000<	100	2%	Acceptable		(±15)	45
PETN				**100**	**-100%**	**Fails**		32.26	3146	99.5200<	100	0%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.36	10399	101.0000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
EGDN				**100**	**-100%**	**Fails**					**100**	**-100%**	**Fails**		(±15)	

m 3/12/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/12/2010 11:58 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000047.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 12-MAR-2010 04:52
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 12-Mar-2010 05:36 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

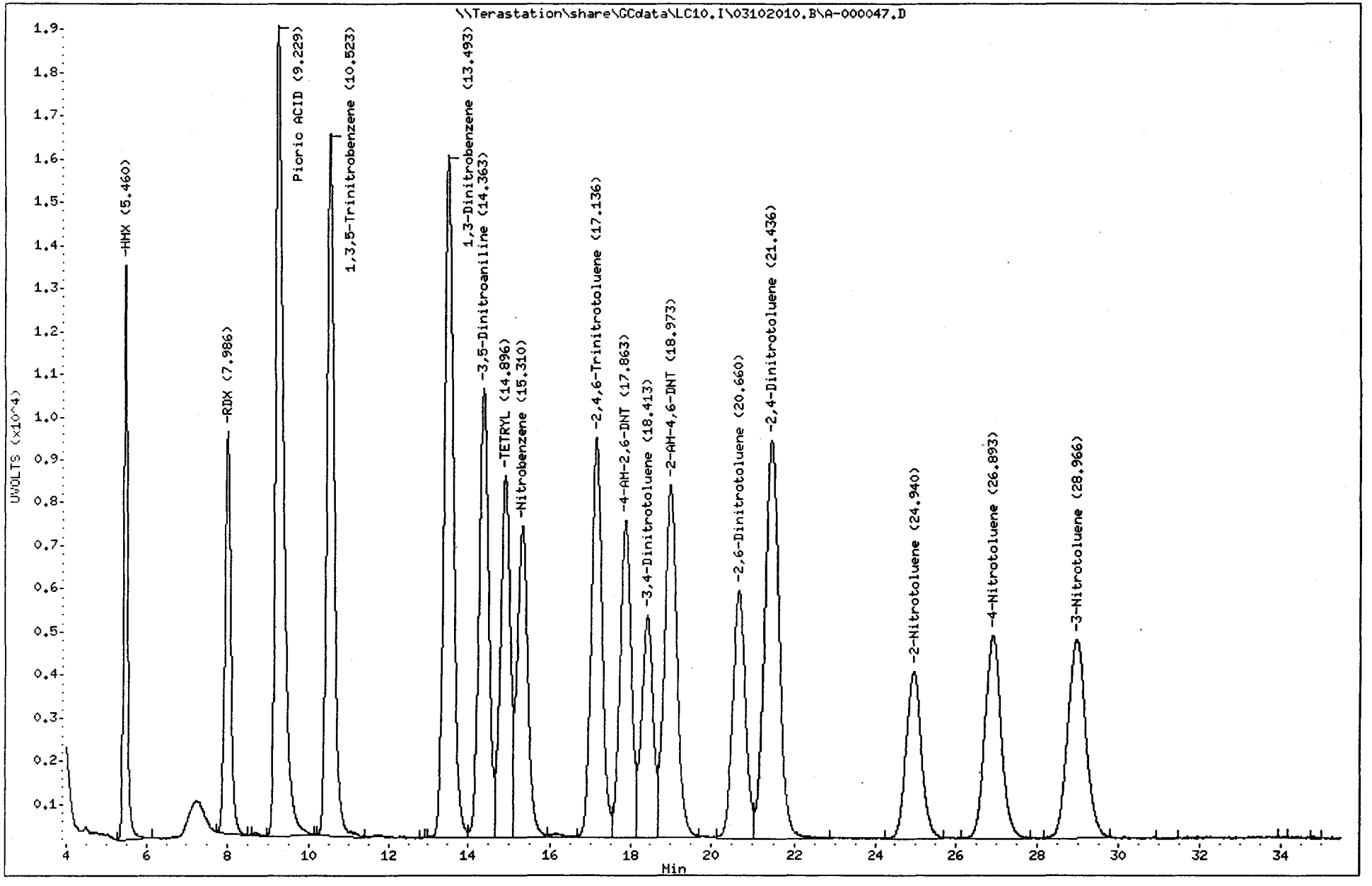
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.460	85268	13364	0.157	8.45		2 HMX
7.986	95438	9317	0.098	5.89		3 RDX
8.703	807	90	0.112	0.05		
9.229	250620	18831	0.075	12.02		5 Picric ACID
10.523	206761	16295	0.079	10.30		6 1,3,5-Trinitrobenze
12.876	96	25	0.261	0.01		
13.493	248217	15830	0.064	10.01		7 1,3-Dinitrobenzene
14.363	172578	10399	0.060	6.57		8 3,5-Dinitroaniline
14.896	136417	8374	0.061	5.29		9 TETRYL
15.310	129618	7223	0.056	4.56		10 Nitrobenzene
16.146	2289	91	0.040	0.05		
17.136	171397	9283	0.054	5.87		12 2,4,6-Trinitrotolue
17.863	144565	7334	0.051	4.63		13 4-AM-2,6-DNT
18.413	99861	5146	0.052	3.25	$	1 3,4-Dinitrotoluene
18.973	176842	8190	0.046	5.18		14 2-AM-4,6-DNT
20.660	124385	5749	0.046	3.63		15 2,6-Dinitrotoluene
21.436	214634	9245	0.043	5.84		16 2,4-Dinitrotoluene
24.940	101083	3869	0.038	2.44		17 2-Nitrotoluene
26.893	133732	4716	0.035	2.98		18 4-Nitrotoluene
28.966	139090	4606	0.033	2.91		19 3-Nitrotoluene
31.116	616	39	0.063	0.02		
34.083	347	42	0.121	0.02		
34.843	451	50	0.111	0.03		
	2635111	158108		100.000		

Total unknown % height = 0.1800

Data File: \\Terastation\share\GCdata\LC10,I\03102010,B\A-000047.D
Date : 12-MAR-2010 04:52
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10,i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000047.D\A-000047
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 12-MAR-2010 04:52
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 12-Mar-2010 05:36 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

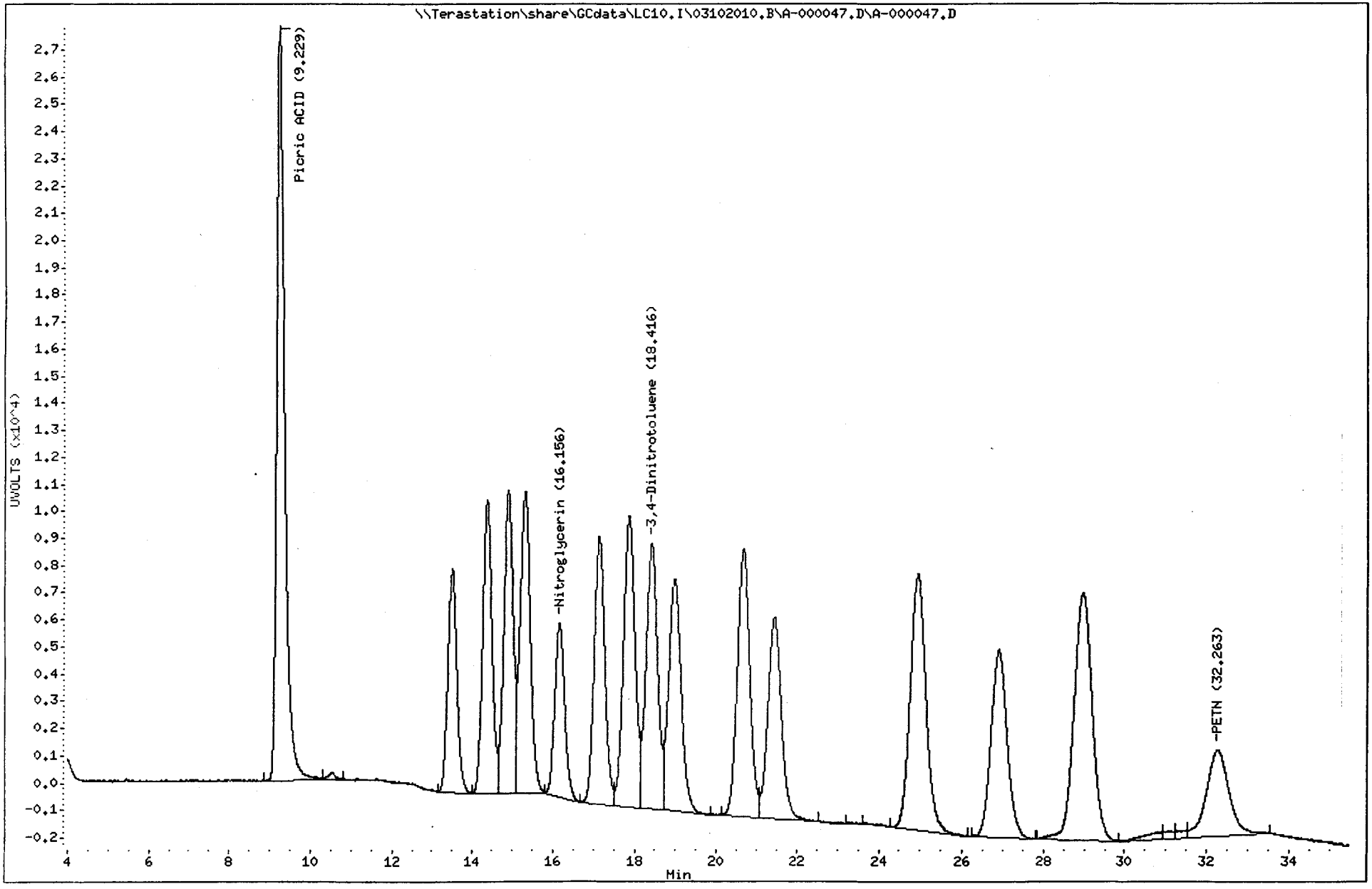
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.229	371387	27821	0.075	17.36		5 Picric ACID
10.530	3232	236	0.073	0.14		
13.493	126748	8207	0.065	5.09		
14.363	177853	10813	0.061	6.71		
14.900	179754	11171	0.062	6.93		
15.310	196717	11097	0.056	6.88		
16.156	108151	6362	0.059	3.94		11 Nitroglycerin
17.136	180139	9855	0.055	6.11		
17.863	209787	10694	0.051	6.63		
18.416	189588	9759	0.051	6.05	$	1 3,4-Dinitrotoluene
18.970	182057	8520	0.047	5.28		
20.660	214244	9828	0.046	6.09		
21.440	172458	7381	0.043	4.58		
23.290	386	36	0.093	0.02		
24.936	249220	9414	0.038	5.84		
26.893	191442	6873	0.036	4.26		
28.966	277071	9097	0.033	5.64		
30.873	8559	252	0.029	0.15		
31.123	4477	282	0.063	0.17		
31.513	5071	294	0.058	0.18		
32.263	120918	3146	0.026	1.95		20 PETN
	3169259	161138		100.000		

Total unknown % height = 70.70

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000047.D\A-000047.D
Date : 12-MAR-2010 04:52
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

A-000050.D

Chromatography Summary

Injection Date: 3/12/2010 7:17 **Operator:** NS

DataFile: LC10.I\03102010.B\A-000050.D **Vial Num:** 53

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LWCWH1A4 0068272 A0C050520-1**

Method File: LC10.I\03102010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.5 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LWCWH1A4 0068272 A0C050520-1;0

Misc. Info: ;;;10.50;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.40**	**-0.010**	**3272**	**517.0000<**		**18.40**	**-0.016**	**6294**	**491.2000**		**0.0000**	**0.00**	
HMX											11.5238	226.76	
RDX											11.4286	226.76	
Picric ACID											95.2381	907.03	
1,3,5-Trinitrobenzene											9.5238	226.76	
1,3-Dinitrobenzene											4.0000	226.76	
TETRYL											9.5238	226.76	
Nitrobenzene											16.7619	226.76	
2,4,6-Trinitrotoluene											18.4762	226.76	
4-AM-2,6-DNT											9.5238	226.76	
2-AM-4,6-DNT											11.9048	272.11	
2,6-Dinitrotoluene											6.9524	226.76	
2,4-Dinitrotoluene											5.0476	226.76	
2-Nitrotoluene											12.3810	226.76	
4-Nitrotoluene											17.3333	453.51	
3-Nitrotoluene											14.7619	226.76	
Nitroglycerin											14.2857	453.51	
PETN											23.8095	453.51	
3,5-Dinitroaniline											8.3810	1179.14	

mr 3/12/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**476.1905**	**517.0000**	**109**	**476.1905**	**491.2000**	**103**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/12/2010 11:59 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000050.D
Lab Smp Id: LWCWH1A4 0068272 A0
Inj Date : 12-MAR-2010 07:17
Operator : NS Inst ID: LC10.i
Smp Info : LWCWH1A4 0068272 A0C050520-1;0
Misc Info : ;;;10.50;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 12-Mar-2010 05:36 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 53
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

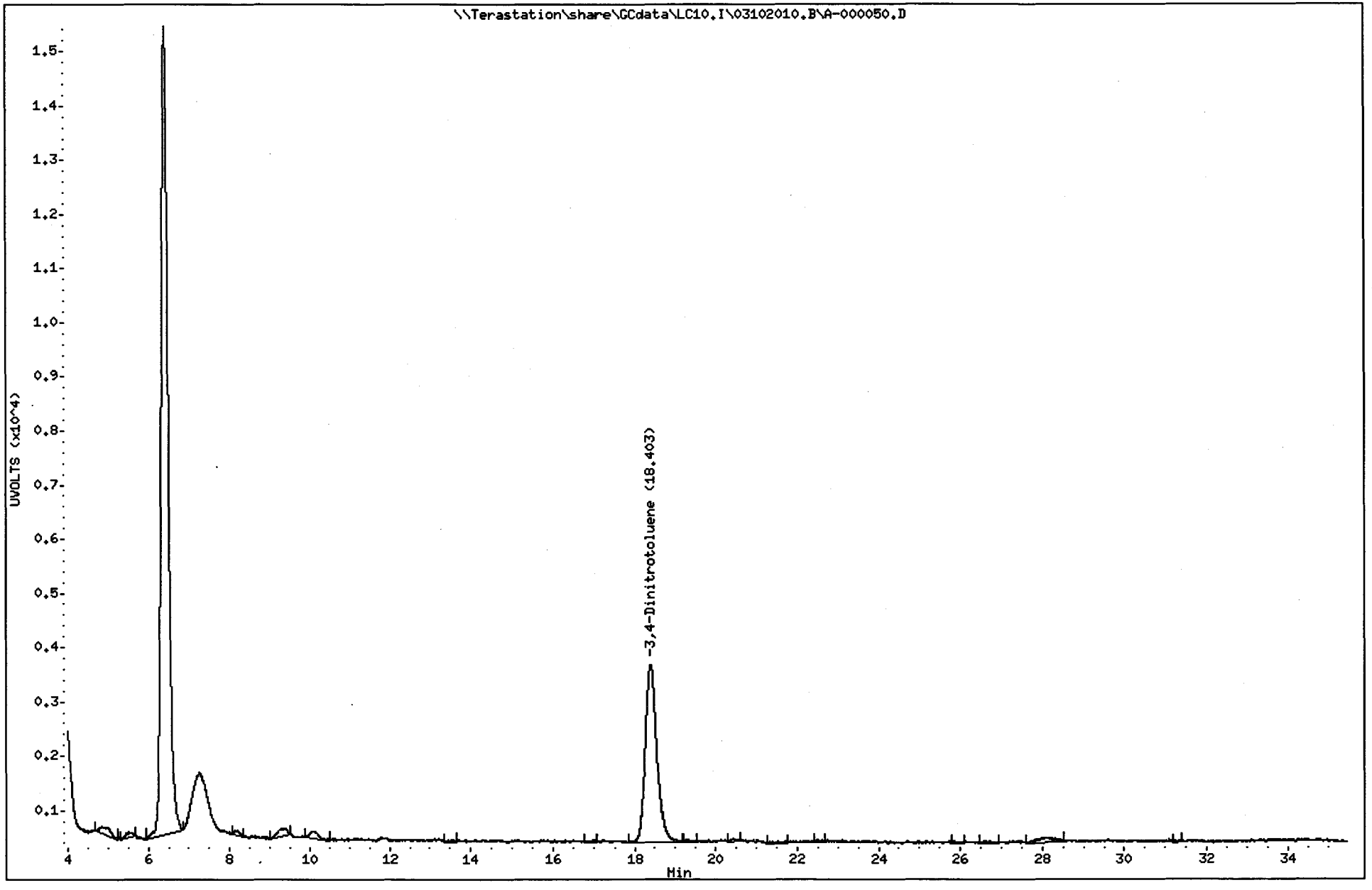
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.500	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
4.827	2602	122	0.047	0.63	
5.470	1083	89	0.082	0.46	
6.413	174875	14897	0.085	77.56	
8.130	735	75	0.102	0.39	
9.280	2152	141	0.066	0.73	
10.063	2176	132	0.061	0.68	
13.450	453	44	0.097	0.22	
16.986	359	41	0.114	0.21	
18.403	64579	3272	0.051	17.02	$ 1 3,4-Dinitrotoluene
19.273	442	49	0.111	0.25	
20.427	413	48	0.116	0.24	
21.326	723	34	0.047	0.17	
22.483	437	51	0.117	0.26	
25.853	377	52	0.138	0.27	
26.580	636	38	0.060	0.19	
27.963	2769	85	0.031	0.44	
31.237	353	54	0.153	0.28	
	255163	19224		100.000	

Total unknown % height = 82.98

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000050.D
Date : 12-MAR-2010 07:17
Client ID:
Sample Info: LWCWH1A4 0068272 A0C050520-1;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000050.D\A-000050
Lab Smp Id: LWCWH1A4 0068272 A0
Inj Date : 12-MAR-2010 07:17
Operator : NS Inst ID: LC10.i
Smp Info : LWCWH1A4 0068272 A0C050520-1;0
Misc Info : ;;;10.50;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 12-Mar-2010 05:36 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 53
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

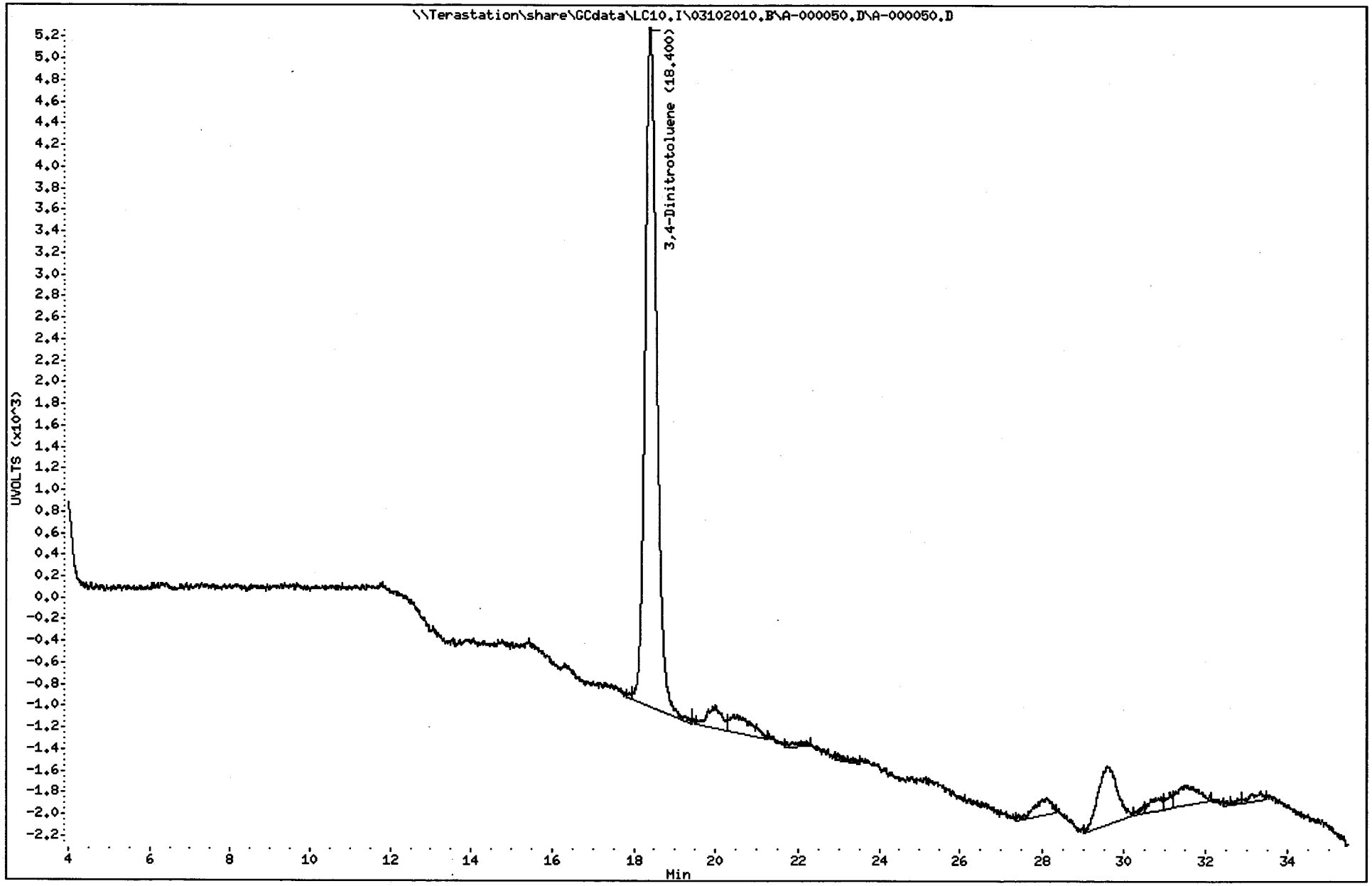
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.500	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.883	361	62	0.172	0.75	
18.400	123793	6294	0.051	76.84	$ 1 3,4-Dinitrotoluene
19.830	4946	161	0.033	1.96	
20.430	5983	163	0.027	1.98	
21.933	940	42	0.045	0.51	
22.970	879	57	0.065	0.69	
27.997	4426	152	0.034	1.85	
29.583	17893	551	0.031	6.72	
30.450	672	87	0.129	1.06	
30.897	2518	120	0.048	1.46	
31.110	1524	144	0.094	1.75	
31.477	6528	189	0.029	2.30	
32.513	242	50	0.207	0.60	
32.767	438	52	0.119	0.63	
33.120	1601	74	0.046	0.90	
	172746	8198		100.000	

Total unknown % height = 23.16

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000050.D\A-000050.D
Date : 12-MAR-2010 07:17
Client ID:
Sample Info: LWCWH1A4 0068272 A0C050520-1;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000051.D

Chromatography Summary

Injection Date: 3/12/2010 8:06 **Operator:** NS

DataFile: LC10.I\03102010.B\A-000051.D **Vial Num:** 54

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LWCWJ1A8 0068272 A0C050520-2**

Method File: LC10.I\03102010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.67 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LWCWJ1A8 0068272 A0C050520-2;0

Misc. Info: ;;;10.67;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.44**	**0.024**	**3277**	**509.5000<**		**18.43**	**0.017**	**6294**	**483.4000**		**0.0000**	**0.00**	
HMX											11.3402	219.59	
RDX											11.2465	219.59	
Picric ACID											93.7207	878.36	
1,3,5-Trinitrobenzene											9.3721	219.59	
1,3-Dinitrobenzene											3.9363	219.59	
TETRYL											9.3721	219.59	
Nitrobenzene											16.4948	219.59	
2,4,6-Trinitrotoluene											18.1818	219.59	
4-AM-2,6-DNT											9.3721	219.59	
2-AM-4,6-DNT											11.7151	263.51	
2,6-Dinitrotoluene											6.8416	219.59	
2,4-Dinitrotoluene											4.9672	219.59	
2-Nitrotoluene											12.1837	219.59	
4-Nitrotoluene											17.0572	439.18	
3-Nitrotoluene											14.5267	219.59	
Nitroglycerin											14.0581	439.18	
PETN											23.4302	439.18	
3,5-Dinitroaniline											8.2474	1141.86	

mr 3/12/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**468.6036**	**509.5000**	**109**	**468.6036**	**483.4000**	**103**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/12/2010 11:59 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000051.D
Lab Smp Id: LWCWJ1A8 0068272 A0
Inj Date : 12-MAR-2010 08:06
Operator : NS Inst ID: LC10.i
Smp Info : LWCWJ1A8 0068272 A0C050520-2;0
Misc Info : ;;;10.67;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 12-Mar-2010 05:36 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 54
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

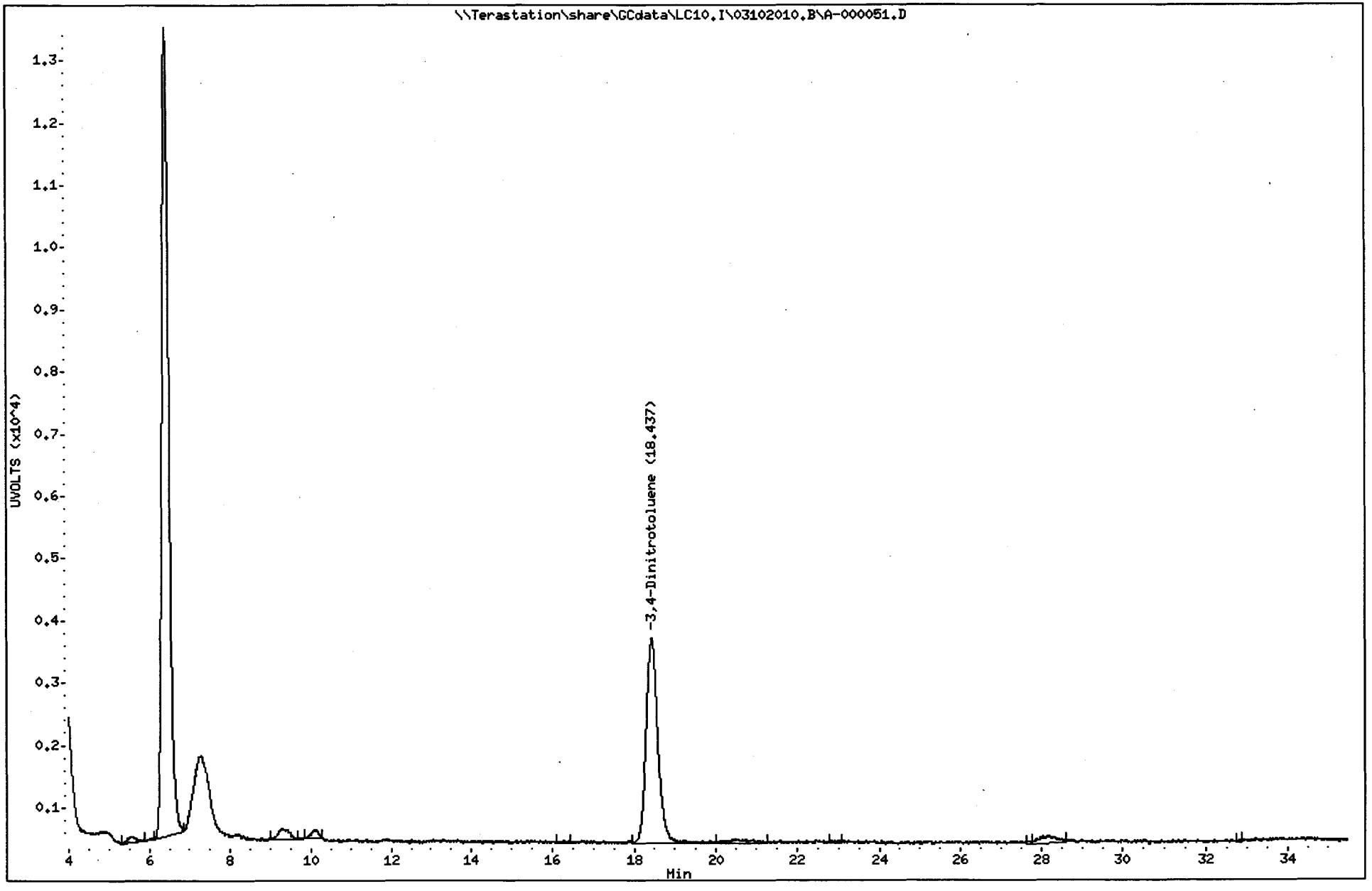
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.670	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.533	1568	106	0.068	0.62	
6.420	154778	12985	0.084	76.27	
9.290	3555	181	0.051	1.06	
10.113	1656	130	0.078	0.76	
16.280	416	42	0.101	0.24	
18.437	66261	3277	0.049	19.23	$ 1 3,4-Dinitrotoluene
20.423	3110	75	0.024	0.44	
22.793	459	41	0.089	0.24	
27.760	259	44	0.170	0.25	
28.053	3490	114	0.033	0.66	
32.810	158	40	0.253	0.23	
	235709	17035		100.000	

Total unknown % height = 80.77

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000051.D
Date : 12-MAR-2010 08:06
Client ID:
Sample Info: LWCWJ1A8 0068272 A0C050520-2:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



North Canton

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000051.D\A-000051
Lab Smp Id: LWCWJ1A8 0068272 A0
Inj Date : 12-MAR-2010 08:06
Operator : NS Inst ID: LC10.i
Smp Info : LWCWJ1A8 0068272 A0C050520-2;0
Misc Info : ;;;10.67;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 12-Mar-2010 05:36 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 54
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

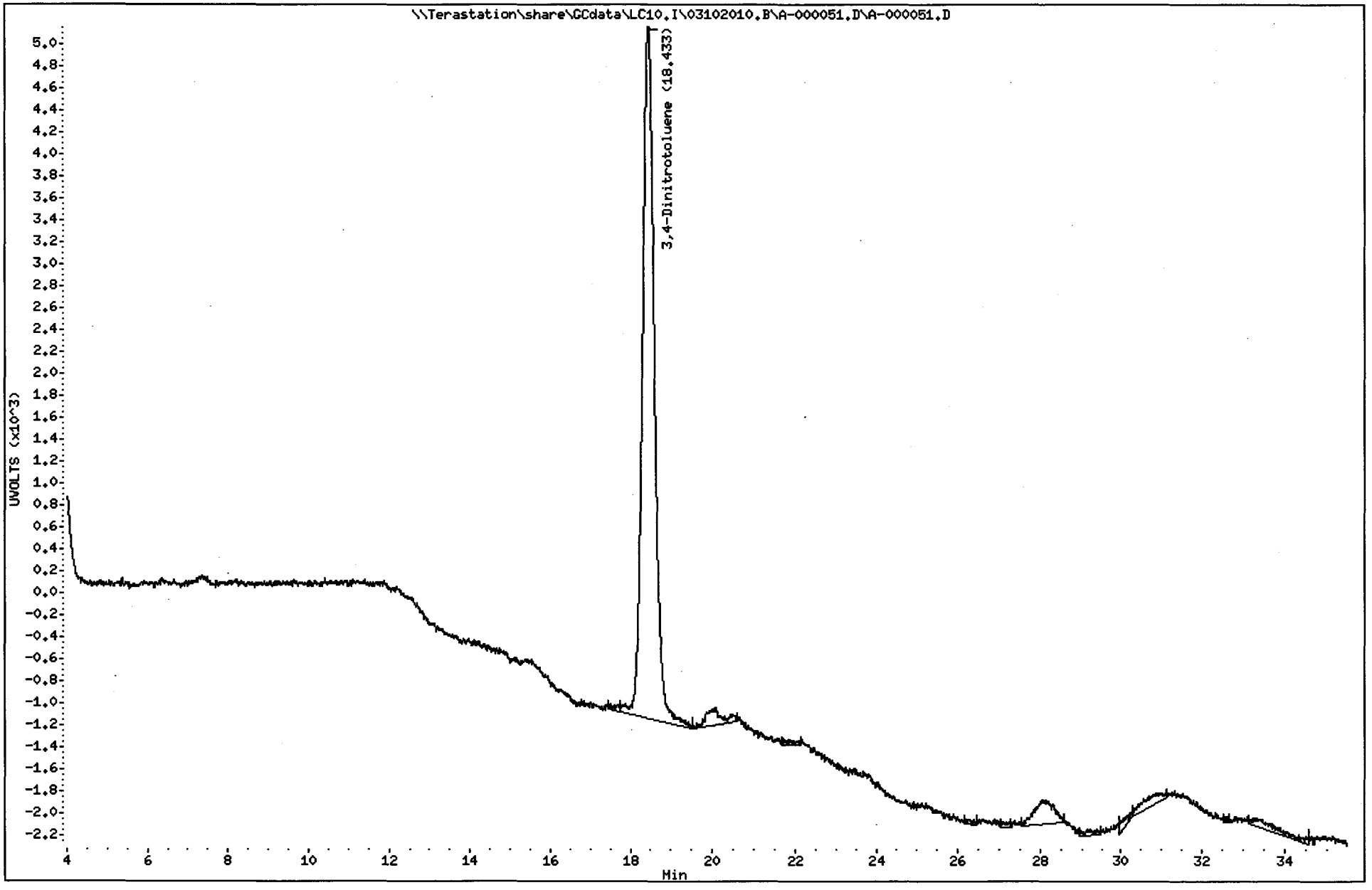
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.670	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.693	677	60	0.089	0.83	
18.433	127255	6294	0.049	87.43	$ 1 3,4-Dinitrotoluene
20.083	4168	156	0.037	2.16	
21.710	845	59	0.070	0.81	
26.250	384	42	0.109	0.58	
27.113	500	50	0.100	0.69	
28.057	7177	219	0.031	3.04	
29.217	954	52	0.054	0.72	
30.230	1206	56	0.046	0.77	
30.920	3608	85	0.024	1.18	
32.610	246	54	0.220	0.74	
33.330	3301	76	0.023	1.05	
	150321	7203		100.000	

Total unknown % height = 12.57

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000051.D\A-000051.D
Date : 12-MAR-2010 08:06
Client ID:
Sample Info: LWCWJ1A8 0068272 A0C050520-2:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



North Canton

Chromatography Summary

Method 8330 Target Analyte Results

Injection Date: 3/12/2010 13:45 Operator: NS

DataFile: LC10.I\03102010.B\A-000058.D Vial Num: 5

Instrument ID: LC10

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03102010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 End Cal Date: 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	18.41	4733	98.1500<	100	-2%	Acceptable		18.41	9713	99.5000	100	-1%	Acceptable		(±15)	
HMX	5.46	13451	101.0000<	100	1%	Acceptable					100	-100%	Fails		(±15)	45
RDX	7.98	9321	103.3000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID	9.22	18947	216.2000	200	8%	Acceptable		9.22	27908	216.8000<	200	8%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.52	16282	101.2000<	100	1%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.48	15774	100.4000<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	14.88	8209	93.4900<	100	-7%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	15.30	7188	97.0900<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.12	9053	94.7400<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	17.85	6943	97.4000<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	18.97	7862	96.8700<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	20.66	5384	95.0700<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.44	8816	95.9500<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	24.95	3938	96.6900<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
4-Nitrotoluene	26.92	4771	97.9400<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
3-Nitrotoluene	28.99	4654	96.9400<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				100	-100%	Fails		16.15	6350	101.3000<	100	1%	Acceptable		(±15)	45
PETN				100	-100%	Fails		32.32	3049	96.4500<	100	-4%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.35	10245	99.4800<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				100	-100%	Fails					100	-100%	Fails		(±15)	

m 3/12/10

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/12/2010 2:56 PM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000058.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 12-MAR-2010 13:45
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 12-Mar-2010 14:29 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

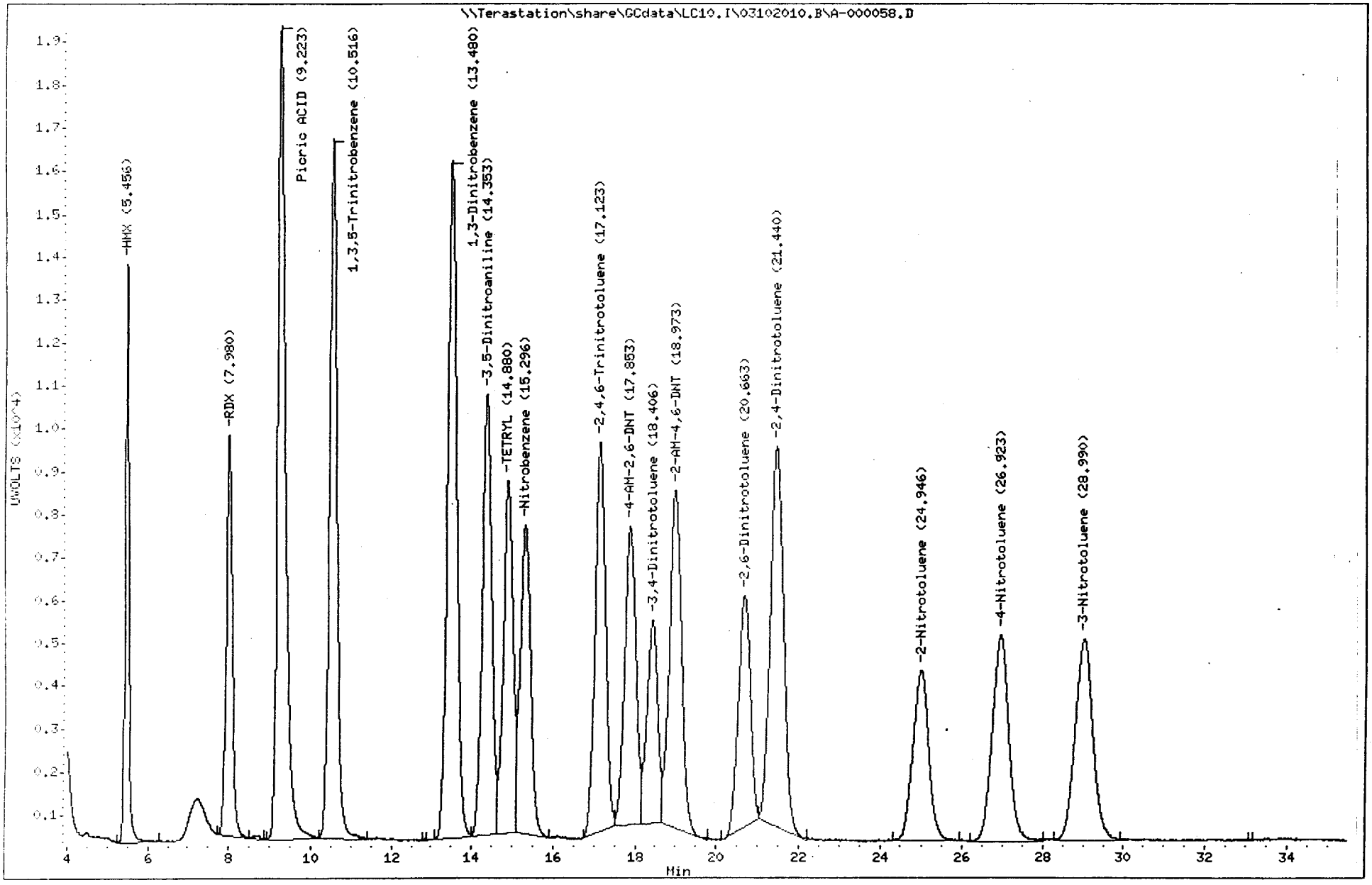
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.456	84889	13451	0.158	8.63		2	HMX
7.980	95199	9321	0.098	5.98		3	RDX
8.640	1020	77	0.075	0.04			
9.223	251302	18947	0.075	12.28		5	Picric ACID
10.516	206465	16282	0.079	10.45		6	1,3,5-Trinitrobenze
12.846	164	52	0.317	0.03			
13.480	245078	15774	0.064	10.12		7	1,3-Dinitrobenzene
14.353	167467	10245	0.061	6.57		8	3,5-Dinitroaniline
14.880	132191	8209	0.062	5.27		9	TETRYL
15.296	127324	7188	0.056	4.61		10	Nitrobenzene
17.123	161584	9053	0.056	5.81		12	2,4,6-Trinitrotolue
17.853	131497	6943	0.053	4.45		13	4-AM-2,6-DNT
18.406	87727	4733	0.054	3.03	$	1	3,4-Dinitrotoluene
18.973	163241	7862	0.048	5.04		14	2-AM-4,6-DNT
20.663	110194	5384	0.049	3.45		15	2,6-Dinitrotoluene
21.440	193512	8816	0.046	5.66		16	2,4-Dinitrotoluene
24.946	103745	3938	0.038	2.52		17	2-Nitrotoluene
26.923	136502	4771	0.035	3.06		18	4-Nitrotoluene
28.990	142330	4654	0.033	2.98		19	3-Nitrotoluene
33.130	162	46	0.284	0.02			
	2541591	155746		100.000			

Total unknown % height = 0.09000

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000058.D
Date : 12-MAR-2010 13:45
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000058.D\A-00005
Lab Smp Id: STD_05 10GCSV0072 8
Inj. Date : 12-MAR-2010 13:45
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 12-Mar-2010 14:29 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

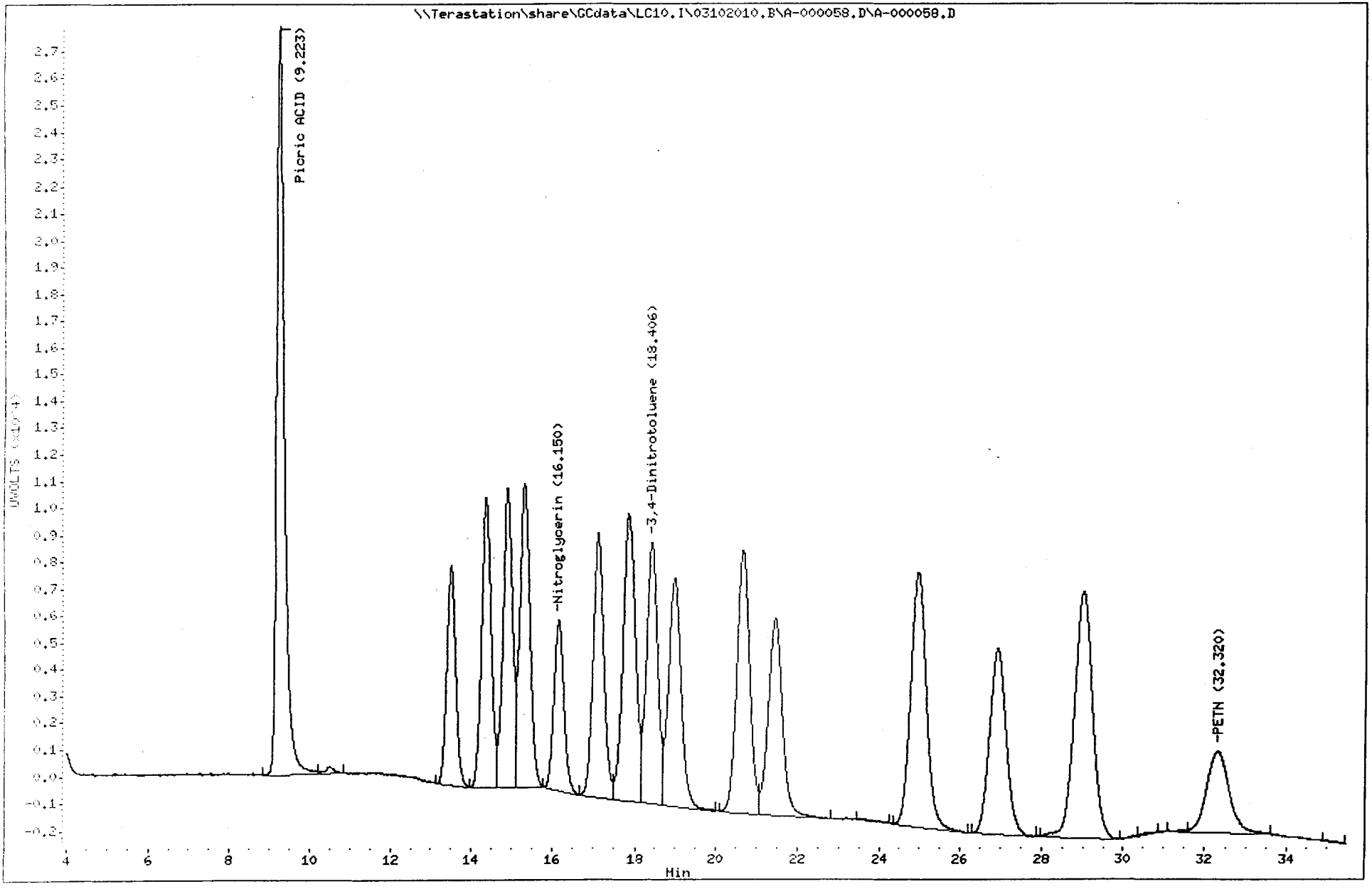
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.223	370599	27908	0.075	17.46		5 Picric ACID
10.510	4386	265	0.060	0.16		
13.483	126815	8203	0.065	5.10		
14.350	177064	10823	0.061	6.72		
14.880	181423	11147	0.061	6.93		
15.296	199972	11323	0.057	7.04		
16.150	107517	6350	0.059	3.94		11 Nitroglycerin
17.123	181869	9847	0.054	6.12		
17.850	210595	10660	0.051	6.62		
18.406	190801	9713	0.051	6.03	$	1 3,4-Dinitrotoluene
18.970	183295	8482	0.046	5.27		
20.656	216605	9795	0.045	6.09		
21.440	174715	7353	0.042	4.57		
23.643	1697	76	0.045	0.04		
24.940	253037	9476	0.037	5.89		
26.920	194117	6930	0.036	4.30		
28.990	281641	9181	0.033	5.70		
30.330	642	43	0.067	0.02		
30.833	1515	44	0.029	0.02		
31.520	1351	90	0.067	0.05		
32.320	112636	3049	0.027	1.89		20 PETN
35.040	1002	69	0.069	0.04		
	3173295	160827		100.000		

Total unknown % height = 70.68

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000058.D\A-000058.D
Date : 12-MAR-2010 13:45
Client ID:
Sample Info: STD_05 10GCSW0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

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West Sacramento

GC/HPLC ICAL Checklist

Instrument ID: LC10-C18 ICAL ID: 03012010 Method: 8330

Analytes Included in curve (with dates): All 8330, PETN, NG, PA, 3,5-DNA

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	✓	✓	
2. ICAL Runlog included.	✓	✓	
3. ICV Included and moved to after summary.	✓	✓	
4. PEM meets requirements and is included for 8081.			✓
5. Alkane Marker included for 8015 TPH.			✓
6. ICAL Raw Data included for all analytes.	✓	✓	
B. ICAL Summary			
1. All analytes meet %RSD or linear regression requirements.	✓	✓	
2. ICAL meets requirements stated in SOP.	✓	✓	
2. Any levels dropped are reviewed and appropriate.			✓
3. All analytes in ICAL are in the ICAL summary.	✓	✓	
4. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			✓
2. All peaks correctly identified.	✓	✓	
3. No analytes have saturated peaks.	✓	✓	
4. RT windows set correctly (8015 TPH).			✓
5. ICV meets requirements and is run after the ICAL.	✓	✓	
6. Standards used in ICAL are current.	✓	✓	
7. ICAL is copied to source method.	✓	✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	✓		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	✓		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

Analyst: [signature] Date: 3/2/10

Reviewer: MKway Date: 3/2/2010

Comments:

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000010.d
Level 2: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000011.d
Level 3: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000012.d
Level 4: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000013.d
Level 5: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000014.d
Level 6: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000015.d
Level 7: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000016.d
Level 8: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000017.d

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
2 HMX	150	144	137	136	130	130		
	125	114					133	8.430
3 RDX	98.40000	96.90000	95.65000	95.78000	91.10000	91.75000		
	83.22800	69.00900					90.22713	10.874
4 EGDN	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++ <-
5 Picric ACID	+++++	+++++	107	91.68000	91.42000	85.79200		
	80.00700	70.21200					87.65517	14.101
6 1,3,5-Trinitrobenzene	170	172	165	167	160	161		
	153	138					161	6.707
7 1,3-Dinitrobenzene	171	170	162	163	156	157		
	147	129					157	8.628
8 3,5-Dinitroaniline	118	110	106	106	101	102		
	96.54200	83.80300					103	9.691
9 TETRYL	94.40000	91.20000	87.95000	88.16000	81.37000	90.93500		
	85.72000	82.69800					87.80413	5.035

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
10 Nitrobenzene	73.00000	79.70000	78.15000	76.92000	73.47000	74.08000		
	71.93800	65.00400					74.03275	6.141
11 Nitroglycerin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
12 2,4,6-Trinitrotoluene	107	99	97.05000	96.38000	89.94000	94.25500		
	92.83000	87.75400					95.55113	6.238
13 4-AM-2,6-DNT	80.80000	76.30000	71.75000	71.44000	68.60000	68.61000		
	69.61400	63.16000					71.28425	7.482
14 2-AM-4,6-DNT	93.20000	87.20000	82.40000	81.42000	78.04000	78.31500		
	78.19200	70.54100					81.16350	8.362
15 2,6-Dinitrotoluene	65.20000	58.90000	57.15000	56.30000	54.15000	54.21000		
	55.58400	51.55900					56.63163	7.244
16 2,4-Dinitrotoluene	103	96.20000	92.70000	92.60000	88.51000	88.75500		
	90.03200	83.62600					91.87788	6.204
17 2-Nitrotoluene	42.40000	43.10000	42.80000	41.98000	39.96000	39.93000		
	39.15400	36.49600					40.72750	5.560
18 4-Nitrotoluene	48.20000	53.20000	51.25000	49.94000	47.60000	48.01000		
	47.15800	44.32700					48.71063	5.581
19 3-Nitrotoluene	50.20000	50.90000	49.30000	49.40000	46.86000	46.97000		
	46.56200	43.90000					48.01150	4.862
20 PETN	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
$ 1 3,4-Dinitrotoluene	+++++	52.30000	46.40000	46.32000	47.22000	46.38000		
	50.47667	48.46000					48.22238	4.871

Report Date: 02-Mar-2010 09:16

Calibration History

Method : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Start Cal Date: 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
01-MAR-2010 17:59	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d
Cal Level: 2 , Cal Amount: 10.00000		
01-MAR-2010 18:47	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d
Cal Level: 3 , Cal Amount: 20.00000		
01-MAR-2010 19:35	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d
Cal Level: 4 , Cal Amount: 50.00000		
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d
Cal Level: 5 , Cal Amount: 100.00000		
01-MAR-2010 21:12	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d
Cal Level: 6 , Cal Amount: 200.00000		
01-MAR-2010 22:01	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d
Cal Level: 7 , Cal Amount: 500.00000		
01-MAR-2010 22:49	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d
Cal Level: 8 , Cal Amount: 1000.00000		

01-MAR-2010 23:38	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d		

Continuing Calibration
Ccal Level Mode: BY SAMPLE

02-MAR-2010 02:03	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d		
02-MAR-2010 01:14	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d		
01-MAR-2010 21:12	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d		

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000010.d\A-00
Level 2: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000011.d\A-00
Level 3: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000012.d\A-00
Level 4: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000013.d\A-00
Level 5: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000014.d\A-00
Level 6: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000015.d\A-00
Level 7: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000016.d\A-00
Level 8: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000017.d\A-00

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
2 HMX	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
3 RDX	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
4 EGDN	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
5 Picric ACID	+++++	+++++	154	135	134	127			
	118	104					129	13.252	
6 1,3,5-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
7 1,3-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
8 3,5-Dinitroaniline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
9 TETRYL	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
10 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
11 Nitroglycerin	+++++	+++++	63.55000	63.44000	62.94000	63.83500		
	63.78800	58.64100					62.69900	3.212
12 2,4,6-Trinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
13 4-AM-2,6-DNT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
14 2-AM-4,6-DNT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
15 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
16 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
17 2-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
18 4-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
19 3-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
20 PETN	+++++ ✓	+++++ ✓	38.05000	30.62000	30.28000	30.55500	✓	✓
	30.73000	29.44300					31.61300	10.083

3/2/2010 MW

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
$ 1 3,4-Dinitrotoluene	+++++	114	97.05000	94.88000	96.43000	95.07500		
	95.19000	90.92400					97.62129	7.577

Report Date: 02-Mar-2010 09:17

Calibration History

Method : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.M
Start Cal Date: 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
01-MAR-2010 17:59	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d\A-000010.d
Cal Level: 2 , Cal Amount: 10.00000		
01-MAR-2010 18:47	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011.d
Cal Level: 3 , Cal Amount: 20.00000		
01-MAR-2010 19:35	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012.d
Cal Level: 4 , Cal Amount: 50.00000		
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d
Cal Level: 5 , Cal Amount: 100.00000		
01-MAR-2010 21:12	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014.d
Cal Level: 6 , Cal Amount: 200.00000		
01-MAR-2010 22:01	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015.d
Cal Level: 7 , Cal Amount: 500.00000		
01-MAR-2010 22:49	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d\A-000016.d
Cal Level: 8 , Cal Amount: 1000.00000		

01-MAR-2010 23:38	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017.d

Continuing Calibration
Ccal Level Mode: BY SAMPLE

02-MAR-2010 02:03	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020.d
02-MAR-2010 01:14	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019.d
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d

Calibration Standard Level Reference Sheet

8330, 8330A, 8330B

	Concentration (ppb)							
Analyte	Level 1	2	3	4	5	6	7	8
3,4-Dinitrotoluene (surr)		10	20	50	100	200	300	500
HMX	5	10	20	50	100	200	500	1000
MNX	5	10	20	50	100	200	500	1000
DNX	5	10	20	50	100	200	500	1000
TNX	5	10	20	50	100	200	500	1000
RDX	5	10	20	50	100	200	500	1000
1,3,5-Trinitrobenzene	5	10	20	50	100	200	500	1000
1,3-Dinitrotoluene	5	10	20	50	100	200	500	1000
3.5-Dinitroaniline	5	10	20	50	100	200	500	1000
TETRYL	5	10	20	50	100	200	500	1000
Nitrobenzene	5	10	20	50	100	200	500	1000
2,4,6-Trinitrotoluene	5	10	20	50	100	200	500	1000
4-Amino-2,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2-Amino-4,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2,6-Dinitrotoluene	5	10	20	50	100	200	500	1000
2,4-Dinitrotoluene	5	10	20	50	100	200	500	1000
2-Nitrotoluene	5	10	20	50	100	200	500	1000
4-Nitrotoluene	5	10	20	50	100	200	500	1000
3-Nitrotoluene	5	10	20	50	100	200	500	1000
Picric Acid			50	100	200	500	1000	2000
Nitroglycerin			20	50	100	200	500	1000
PETN			20	50	100	200	500	1000
EGDN			20	50	100	200	500	1000

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC10 Batch ID: 03012010
Method : Method 8330 Test : SOP SAC-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
01-MAR-2010	10:34	NS	8330 PRIMER	A-000001.	0 g	0 mL	1	
01-MAR-2010	11:23	NS	8330 PRIMER	A-000002.	0 g	0 mL	1	
01-MAR-2010	12:11	NS	8330 PRIMER	A-000003.	0 g	0 mL	1	
01-MAR-2010	12:59	NS	8330 PRIMER	A-000004.	0 g	0 mL	1	
01-MAR-2010	13:48	NS	8330 PRIMER	A-000005.	0 g	0 mL	1	
01-MAR-2010	14:36	NS	8330 PRIMER	A-000006.	0 g	0 mL	1	
01-MAR-2010	15:25	NS	8330 PRIMER	A-000007.	0 g	0 mL	1	
01-MAR-2010	16:13	NS	8330 PRIMER	A-000008.	0 g	0 mL	1	
01-MAR-2010	17:10	NS	BLANK	A-000009.	0 g	0 mL	1	
01-MAR-2010	17:59	NS	CS_01 10GCSV0046 8330 ICAL L1	A-000010.	0 g	0 mL	1	
01-MAR-2010	18:47	NS	CS_02 10GCSV0047 8330 ICAL L2	A-000011.	0 g	0 mL	1	
01-MAR-2010	19:35	NS	CS_03 10GCSV0048 8330 ICAL L3	A-000012.	0 g	0 mL	1	
01-MAR-2010	20:24	NS	CS_04 10GCSV0049 8330 ICAL L4	A-000013.	0 g	0 mL	1	
01-MAR-2010	21:12	NS	CS_05 10GCSV0072 8330 ICAL L5	A-000014.	0 g	0 mL	1	
01-MAR-2010	22:01	NS	CS_06 09GCSV0482 8330 ICAL L6	A-000015.	0 g	0 mL	1	
01-MAR-2010	22:49	NS	CS_07 10GCSV0050 8330 ICAL L7	A-000016.	0 g	0 mL	1	
01-MAR-2010	23:38	NS	CS_8 10GCSV0051 8330 ICAL L8 1	A-000017.	0 g	0 mL	1	
02-MAR-2010	00:26	NS	BLANK	A-000018.	0 g	0 mL	1	
02-MAR-2010	01:14	NS	ICV 10GCSV0058 8330 200ng/mL	A-000019.	0 g	0 mL	1	
02-MAR-2010	02:03	NS	MRL 10GCSV0074 8330 5-50ng/mL	A-000020.	0 g	0 mL	1	

TestAmerica West Sacramento

A-000019.D

Chromatography Summary

Injection Date: 3/2/2010 1:14 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000019.D **Vial Num:** 69

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **ICV 10GCSV0058 8330 200ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: ICV 10GCSV0058 8330 200ng/mL;2

Misc. Info: ;6; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene				200	-100%	Fails	Not SPIKED				200	-100%	Fails		(±15)	
HMX	5.46	27851	209.1000<	200	5%	Acceptable					200	-100%	Fails		(±15)	45
RDX	8.04	18379	203.7000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
Picric ACID	9.24	41098	468.8000	500	-6%	Acceptable		9.24	60778	472.3000<	500	-6%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.62	32359	201.1000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.66	31650	201.6000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
TETRYL	15.16	18076	205.9000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
Nitrobenzene	15.52	15283	206.4000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.41	19055	199.4000<	200	0%	Acceptable					200	-100%	Fails		(±15)	45
4-AM-2,6-DNT	18.18	14153	198.5000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.31	16434	202.5000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	21.05	11129	196.5000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.82	18425	200.5000<	200	0%	Acceptable					200	-100%	Fails		(±15)	45
2-Nitrotoluene	25.40	8259	202.8000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
4-Nitrotoluene	27.41	9936	204.0000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
3-Nitrotoluene	29.54	9806	204.2000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
Nitroglycerin				200	-100%	Fails		16.44	13921	222.0000<	200	11%	Acceptable		(±15)	45
PETN				200	-100%	Fails		33.13	6995	221.3000<	200	11%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.56	20727	201.3000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
EGDN				200	-100%	Fails	NA				200	-100%	Fails		(±15)	

MR 3/2/10

ICV passes ± 15%

MR 3/2/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:15 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d
Lab Smp Id: ICV 10GCSV0058 8330
Inj Date : 02-MAR-2010 01:14
Operator : NS Inst ID: LC10.i
Smp Info : ICV 10GCSV0058 8330 200ng/mL;2
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:14 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

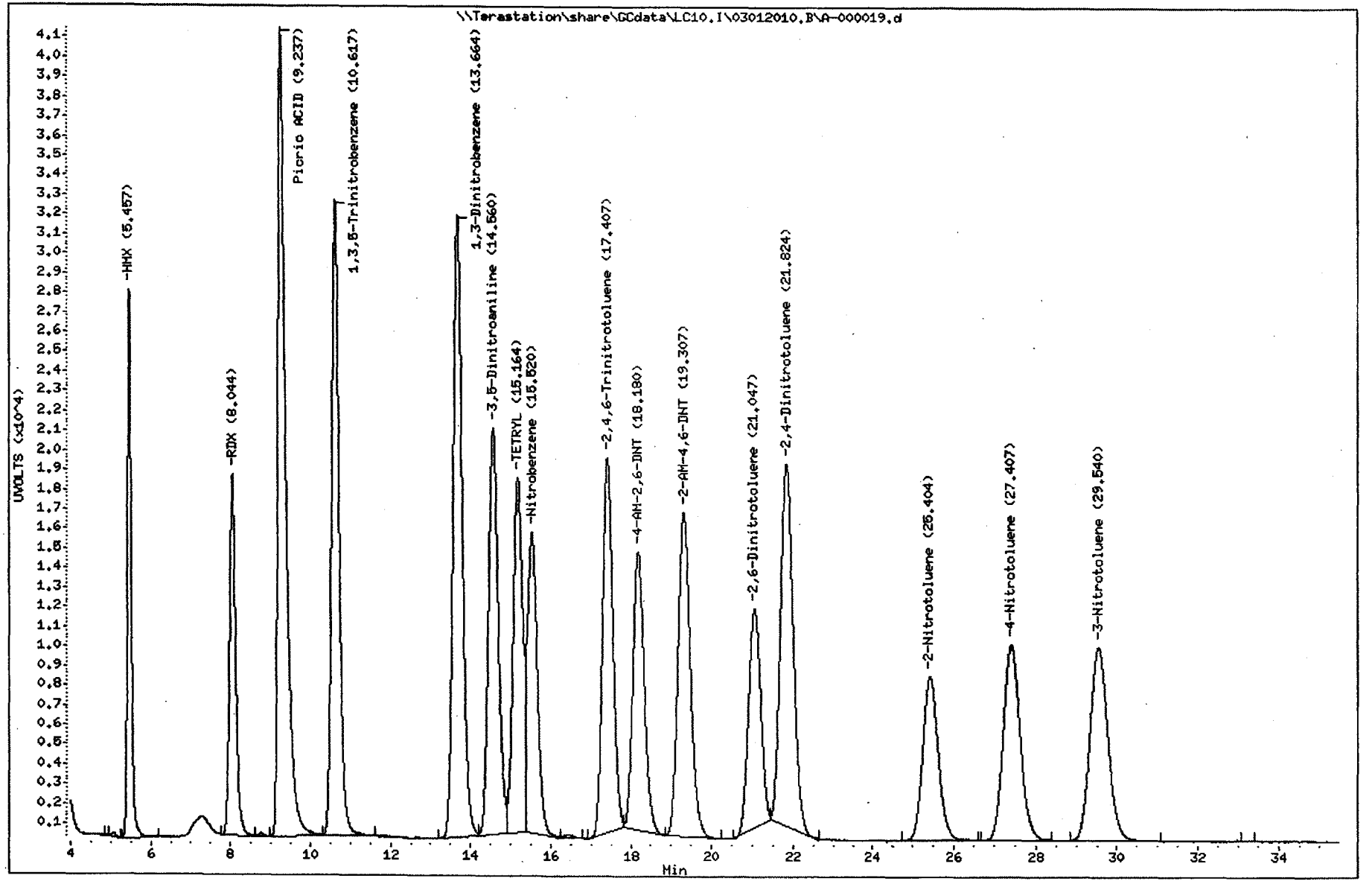
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
4.897	101	40	0.394	0.01	
5.057	1419	213	0.150	0.06	
5.457	180264	27851	0.155	8.89	2 HMX
8.044	192820	18379	0.095	5.86	3 RDX
8.740	1385	166	0.120	0.05	
9.237	570439	41098	0.072	13.21	5 Picric ACID
10.617	413294	32359	0.078	10.33	6 1,3,5-Trinitrobenze
13.664	499482	31650	0.063	10.10	7 1,3-Dinitrobenzene
14.560	345098	20727	0.060	6.61	8 3,5-Dinitroaniline
15.164	289510	18076	0.062	5.77	9 TETRYL
15.520	268810	15283	0.057	4.87	10 Nitrobenzene
16.450	2076	138	0.066	0.04	
17.407	342027	19055	0.056	6.08	12 2,4,6-Trinitrotolue
18.180	275681	14153	0.051	4.51	13 4-AM-2,6-DNT
19.307	347563	16434	0.047	5.24	14 2-AM-4,6-DNT
21.047	227359	11129	0.049	3.55	15 2,6-Dinitrotoluene
21.824	403652	18425	0.046	5.88	16 2,4-Dinitrotoluene
25.404	217983	8259	0.038	2.63	17 2-Nitrotoluene
27.407	279772	9936	0.036	3.17	18 4-Nitrotoluene
29.540	298361	9806	0.033	3.13	19 3-Nitrotoluene
33.177	525	49	0.093	0.01	
	5157621	313226		100.000	

Total unknown % height = 0.1700

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d
Date : 02-MAR-2010 01:14
Client ID:
Sample Info: ICV 10GCSV0058 8330 200ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019
Lab Smp Id: ICV 10GCSV0058 8330
Inj Date : 02-MAR-2010 01:14
Operator : NS Inst ID: LC10.i
Smp Info : ICV 10GCSV0058 8330 200ng/mL;2
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:14 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.237	849293	60778	0.072	19.26	5 Picric ACID
10.614	7363	517	0.070	0.16	
13.664	258452	16422	0.064	5.18	
14.560	363697	21789	0.060	6.87	
15.167	388762	24491	0.063	7.72	
15.520	427771	23907	0.056	7.54	
16.444	238096	13921	0.058	4.39	11 Nitroglycerin
17.407	376128	20557	0.055	6.48	
18.177	424782	21215	0.050	6.69	
19.307	356880	16998	0.048	5.36	
21.047	440087	20006	0.045	6.31	
21.824	364079	15487	0.043	4.88	
25.407	516355	19787	0.038	6.24	
27.410	405262	14502	0.036	4.57	
29.537	592682	19506	0.033	6.15	
33.127	252854	6995	0.028	2.20	20 PETN
	6262544	316878		100.000	

Total unknown % height = 74.15

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019.d

Date : 02-MAR-2010 01:14

Client ID:

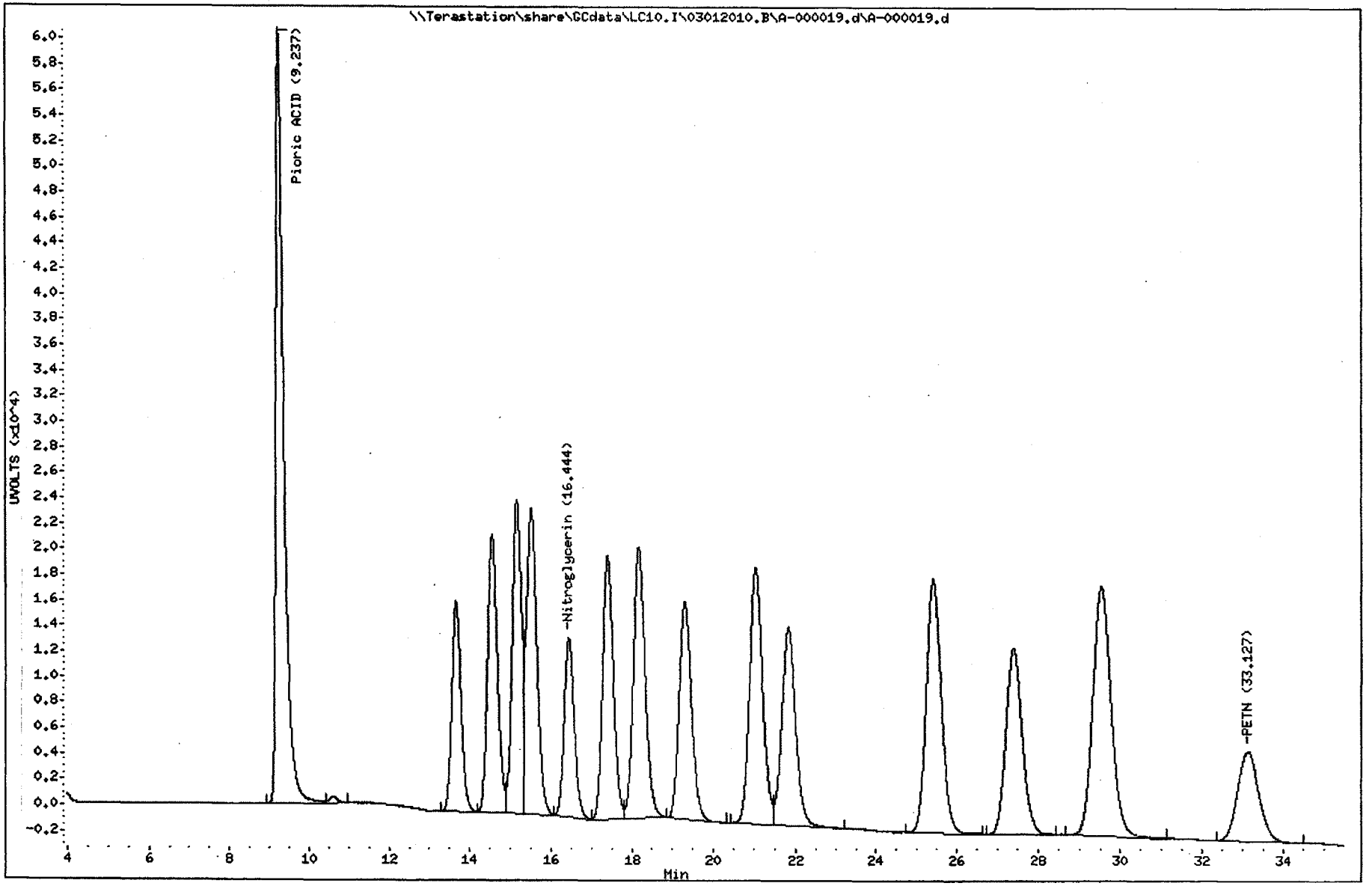
Instrument: LC10.i

Sample Info: ICV 10GCSV0058 8330 200ng/mL:2

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000020.D

Chromatography Summary

Injection Date: 3/2/2010 2:03 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000020.D **Vial Num:** 70

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **MRL 10GCSV0074 8330 5-50ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: MRL 10GCSV0074 8330 5-50ng/mL;2

Misc. Info: ;9; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.73	957	19.8400<	20	-1%	Acceptable		18.73	1737	17.7900	20	-11%	Acceptable		(±15)	
HMX	5.45	699	5.2470<	5	5%	Acceptable					5	-100%	Fails		(±15)	45
RDX	8.02	409	4.5330<	5	-9%	Acceptable					5	-100%	Fails		(±15)	45
Picric ACID	9.30	4130	47.1200	50	-6%	Acceptable		9.30	5993	46.5700<	50	-7%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.60	787	4.8920<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.65	754	4.8020<	5	-4%	Acceptable					5	-100%	Fails		(±15)	45
TETRYL	15.15	436	4.9660<	5	-1%	Acceptable					5	-100%	Fails		(±15)	45
Nitrobenzene	15.46	384	5.1870<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.35	476	4.9820<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
4-AM-2,6-DNT	18.16	356	4.9940<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.25	407	5.0140<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	21.02	271	4.7850<	5	-4%	Acceptable					5	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.80	452	4.9200<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
2-Nitrotoluene	25.36	219	5.3770<	5	8%	Acceptable					5	-100%	Fails		(±15)	45
4-Nitrotoluene	27.34	250	5.1320<	5	3%	Acceptable					5	-100%	Fails		(±15)	45
3-Nitrotoluene	29.44	249	5.1860<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
Nitroglycerin				**20**	**-100%**	**Fails**		16.41	1265	20.1800< ✓	20	1%	Acceptable		(±15)	45
PETN				**20**	**-100%**	**Fails**		33.09	682	21.5700<	20	8%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.52	504	4.8940<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
EGDN				**20**	**-100%**	**Fails**					**20**	**-100%**	**Fails**		(±15)	

3/2/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:15 AM

Report Date: 02-Mar-2010 09:15

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d
Lab Smp Id: MRL 10GCSV0074 8330
Inj Date : 02-MAR-2010 02:03
Operator : NS Inst ID: LC10.i
Smp Info : MRL 10GCSV0074 8330 5-50ng/mL;2
Misc Info : ;9; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:15 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 70 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.445	6713	699	0.104	5.88		2 HMX
8.015	4795	409	0.085	3.44		3 RDX
9.295	64014	4130	0.065	34.88		5 Picric ACID
10.599	11499	787	0.068	6.62		6 1,3,5-Trinitrobenze
13.645	13919	754	0.054	6.35		7 1,3-Dinitrobenzene
14.519	9427	504	0.053	4.24		8 3,5-Dinitroaniline
15.152	7127	436	0.061	3.67		9 TETRYL
15.462	6871	384	0.056	3.23		10 Nitrobenzene
17.345	9391	476	0.051	4.00		12 2,4,6-Trinitrotolue
18.155	6614	356	0.054	2.99		13 4-AM-2,6-DNT
18.732	19615	957	0.049	8.06	$	1 3,4-Dinitrotoluene
19.252	8993	407	0.045	3.42		14 2-AM-4,6-DNT
21.019	5412	271	0.050	2.28		15 2,6-Dinitrotoluene
21.802	10692	452	0.042	3.80		16 2,4-Dinitrotoluene
25.355	6266	219	0.035	1.84		17 2-Nitrotoluene
26.492	205	45	0.220	0.37		
26.945	125	38	0.304	0.32		
27.335	6353	250	0.039	2.10		18 4-Nitrotoluene
28.685	360	50	0.139	0.42		
29.442	8160	249	0.031	2.09		19 3-Nitrotoluene
	206549	11873		100.000		

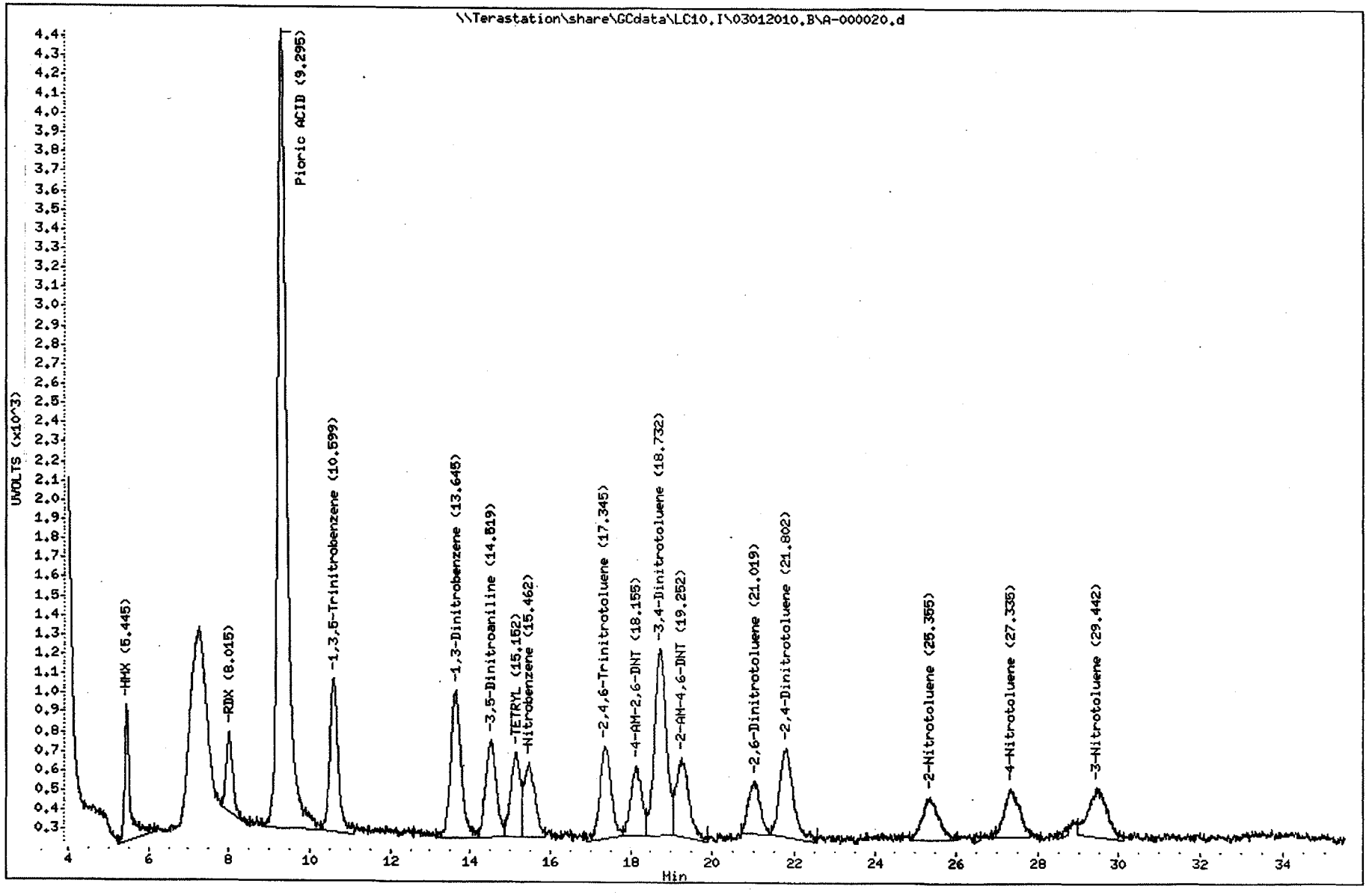
Total unknown % height = 1.110

Data File: \\Terastation\share\GCdata\LC10,I\03012010,B\A-000020.d
Date : 02-MAR-2010 02:03
Client ID:
Sample Info: MRL 10GCSV0074 8330 5-50ng/mL;2

Column phase: SYNERGI HYDRORP C18

Instrument: LC10,i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020
Lab Smp Id: MRL 10GCSV0074 8330
Inj Date : 02-MAR-2010 02:03
Operator : NS Inst ID: LC10.i
Smp Info : MRL 10GCSV0074 8330 5-50ng/mL;2
Misc Info : ;9; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:15 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 70 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.295	88667	5993	0.068	37.36		5 Picric ACID
13.599	7435	396	0.053	2.46		
14.522	11000	559	0.051	3.47		
15.135	11345	643	0.057	3.99		
15.462	14564	648	0.044	4.02		
16.409	22586	1265	0.056	7.86		11 Nitroglycerin
17.369	9305	496	0.053	3.08		
18.152	8484	478	0.056	2.97		
18.725	35776	1737	0.049	10.80	$	1 3,4-Dinitrotoluene
20.985	11046	489	0.044	3.04		
21.815	11755	405	0.034	2.51		
23.589	2146	82	0.038	0.50		
25.362	14657	519	0.035	3.22		
26.512	759	62	0.082	0.38		
27.339	9306	345	0.037	2.14		
28.929	54402	1174	0.022	7.30		
30.669	570	48	0.084	0.29		
31.932	681	60	0.088	0.37		
33.092	24525	682	0.028	4.24		20 PETN
	339007	16081		100.000		

Total unknown % height = 39.74

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020.d

Date : 02-MAR-2010 02:03

Client ID:

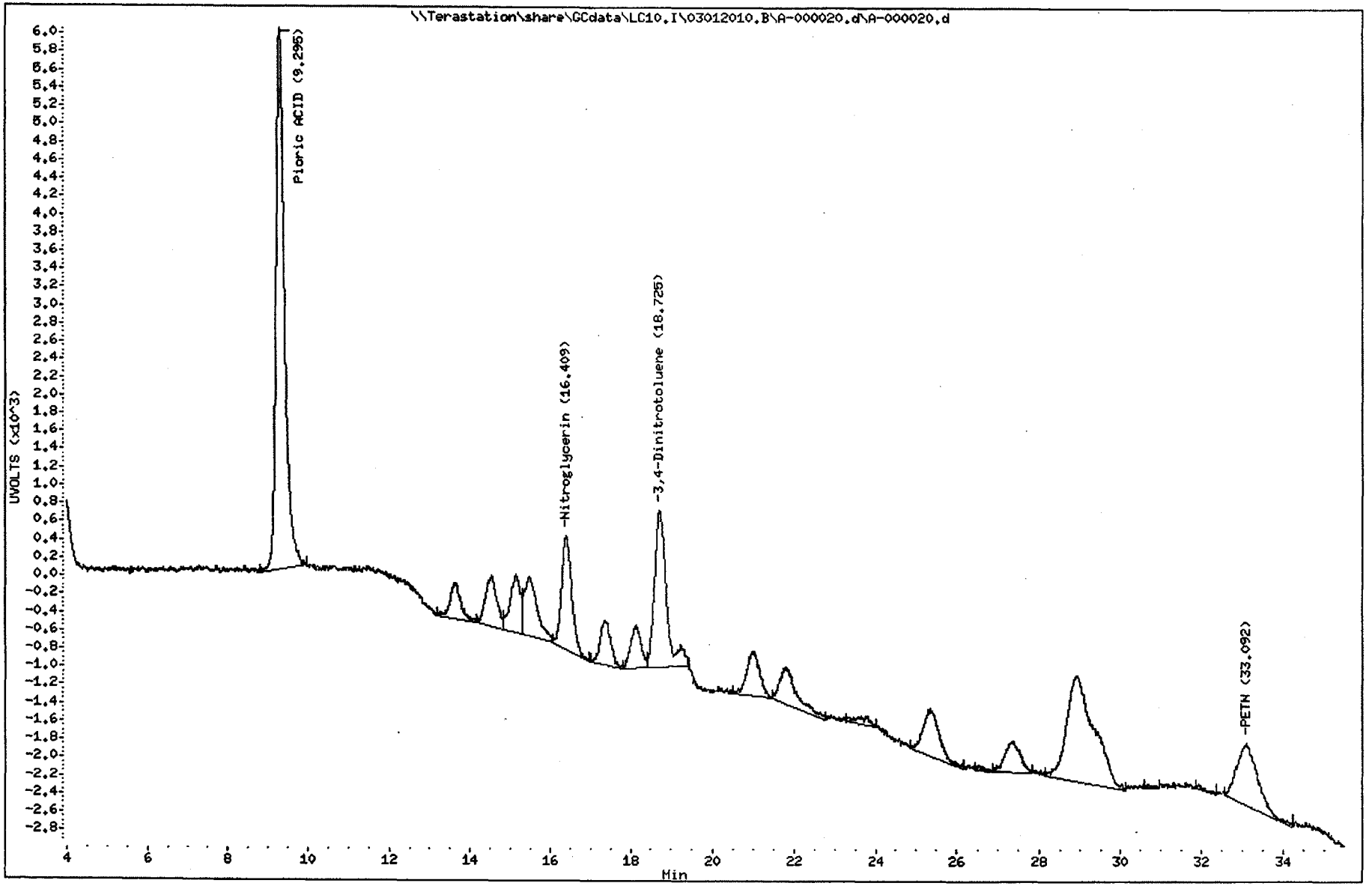
Instrument: LC10.i

Sample Info: MRL 10GCSV0074 8330 5-50ng/mL;2

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000010.D

Chromatography Summary

Injection Date: 3/1/2010 17:59 **Operator:** NS
DataFile: LC10.I\03012010.B\A-000010.D **Vial Num:** 61
Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : CS_01 10GCSV0046 8330 ICAL L1 5ng/mL

Method File: LC10.I\03012010.B\8330AB.M
Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 17:59

Matrix: NONE **SubList:** CAL.sub **SpikeList:**
Samp. Info: CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1
Misc. Info: ;1; ; ; ;3;CAL.sub; ;0;1

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene			5		0			5		0
HMX	5.46	751	5		150.2 ✓			5		0
RDX	8.05	492	5		98.4			5		0
Picric ACID	9.22	27	10		2.7			10		0
1,3,5-Trinitrobenzene	10.62	848	5		169.6			5		0
1,3-Dinitrobenzene	13.69	854	5		170.8			5		0
TETRYL	15.18	472	5		94.4			5		0
Nitrobenzene	15.54	365	5		73			5		0
2,4,6-Trinitrotoluene	17.42	535	5		107			5		0
4-AM-2,6-DNT	18.21	404	5		80.8			5		0
2-AM-4,6-DNT	19.33	466	5		93.2			5		0
2,6-Dinitrotoluene	21.04	326	5		65.2			5		0
2,4-Dinitrotoluene	21.87	513	5		102.6			5		0
2-Nitrotoluene	25.50	212	5		42.4			5		0
4-Nitrotoluene	27.50	241	5		48.2			5		0
3-Nitrotoluene	29.57	251	5		50.2			5		0
Nitroglycerin			5		0			5		0
PETN			5		0	33.08	68	5		13.6
3,5-Dinitroaniline	14.57	588	5		117.6			5		0
EGDN			5		0			5		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:04 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d
Lab Smp Id: CS_01 10GCSV0046 83
Inj Date : 01-MAR-2010 17:59
Operator : NS Inst ID: LC10.i
Smp Info : CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1
Misc Info : ;1; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:03 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 17:59 Cal File: A-000010.d
Als bottle: 61 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.456	5457	751	0.138	9.92	2 HMX
8.053	5137	492	0.096	6.49	3 RDX
8.996	140	39	0.279	0.51	
9.223	180	27	0.150	0.35	5 Picric ACID
9.960	937	58	0.062	0.76	
10.623	10912	848	0.078	11.20	6 1,3,5-Trinitrobenze
12.533	190	36	0.190	0.47	
13.690	14125	854	0.060	11.38	7 1,3-Dinitrobenzene
14.566	10139	588	0.058	7.76	8 3,5-Dinitroaniline
15.180	7903	472	0.060	6.23	9 TETRYL
15.540	6816	365	0.054	4.82	10 Nitrobenzene
17.423	10563	535	0.051	7.06	12 2,4,6-Trinitrotolue
18.206	8964	404	0.045	5.33	13 4-AM-2,6-DNT
19.326	11396	466	0.041	6.15	14 2-AM-4,6-DNT
21.036	7610	326	0.043	4.30	15 2,6-Dinitrotoluene
21.870	13045	513	0.039	6.77	16 2,4-Dinitrotoluene
24.976	228	44	0.193	0.58	
25.503	5737	212	0.037	2.80	17 2-Nitrotoluene
27.503	6734	241	0.036	3.18	18 4-Nitrotoluene
29.573	7409	251	0.034	3.31	19 3-Nitrotoluene
33.523	183	48	0.262	0.63	
	133806	7570		100.000	

Total unknown % height = 2.950

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d

Date : 01-MAR-2010 17:59

Client ID:

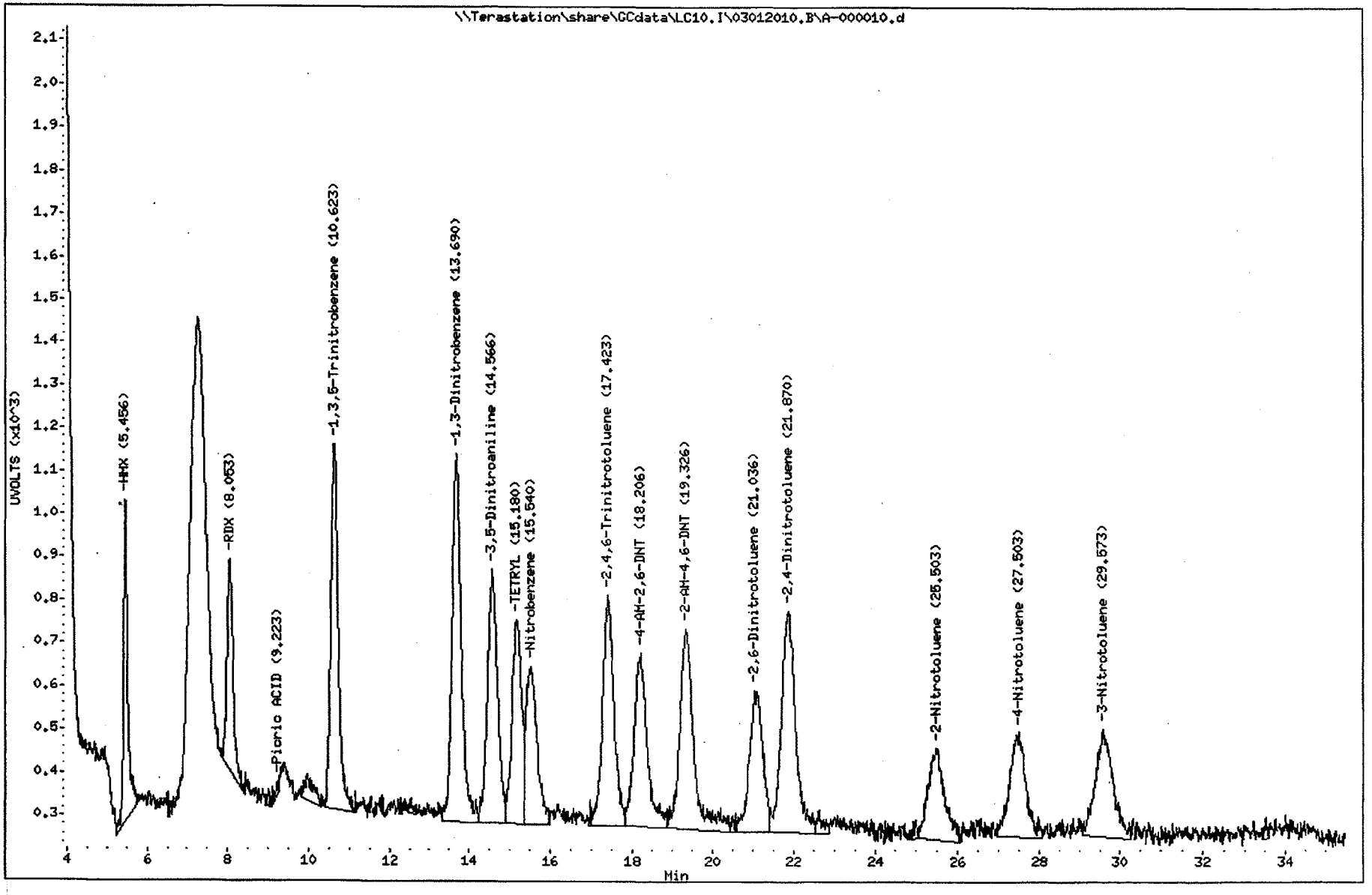
Instrument: LC10.i

Sample Info: CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d\A-000010
Lab Smp Id: CS_01 10GCSV0046 83
Inj Date : 01-MAR-2010 17:59
Operator : NS Inst ID: LC10.i
Smp Info : CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1
Misc Info : ;1; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:03 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 17:59 Cal File: A-000010.d
Als bottle: 61 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
13.670	7343	439	0.060	6.64	
14.560	9544	585	0.061	8.85	
15.183	10124	632	0.062	9.65	
15.533	12585	614	0.049	9.29	
17.423	10853	577	0.053	8.73	
18.203	11799	569	0.048	8.60	
19.333	8847	450	0.051	6.80	
20.086	419	38	0.091	0.57	
20.406	889	65	0.073	0.98	
20.700	742	93	0.125	1.40	
21.033	12222	550	0.045	8.32	
21.863	11441	405	0.035	6.12	
24.806	197	42	0.213	0.63	
25.456	13632	509	0.037	7.70	
26.550	6374	256	0.040	3.87	
27.426	5888	268	0.046	4.05	
28.156	1132	57	0.050	0.86	
29.536	8569	331	0.039	5.00	
31.440	1543	61	0.040	0.92	
33.083	1197	68	0.057	1.02	20 PETN
	135338	6609		100.000	

Total unknown % height = 98.98

TestAmerica West Sacramento

A-000011.D

Chromatography Summary

Injection Date: 3/1/2010 18:47 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000011.D **Vial Num:** 62

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_02 10GCSV0047 8330 ICAL L2 10ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1

Misc. Info: ;2; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.79	523	10		52.3	18.80	1138	10		113.8
HMX	5.46	1440	10		144 ✓			10		0
RDX	8.05	969	10		96.9			10		0
Picric ACID	9.33	1858	20		92.9	9.33	2684	20		134.2
1,3,5-Trinitrobenzene	10.63	1716	10		171.6			10		0
1,3-Dinitrobenzene	13.68	1704	10		170.4			10		0
TETRYL	15.18	912	10		91.2			10		0
Nitrobenzene	15.53	797	10		79.7			10		0
2,4,6-Trinitrotoluene	17.42	992	10		99.2			10		0
4-AM-2,6-DNT	18.21	763	10		76.3			10		0
2-AM-4,6-DNT	19.33	872	10		87.2			10		0
2,6-Dinitrotoluene	21.05	589	10		58.9			10		0
2,4-Dinitrotoluene	21.86	962	10		96.2			10		0
2-Nitrotoluene	25.44	431	10		43.1			10		0
4-Nitrotoluene	27.43	532	10		53.2			10		0
3-Nitrotoluene	29.57	509	10		50.9			10		0
Nitroglycerin			10		0	16.46	661	10		66.1
PETN			10		0	33.25	432	10		43.2
3,5-Dinitroaniline	14.56	1099	10		109.9			10		0
EGDN			10		0			10		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:13 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d
Lab Smp Id: CS_02 10GCSV0047 83
Inj Date : 01-MAR-2010 18:47
Operator : NS Inst ID: LC10.i
Smp Info : CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1
Misc Info : ;2; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 18:47 Cal File: A-000011.d
Als bottle: 62 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
4.944	608	59	0.097	0.35			
5.457	10495	1440	0.137	8.56		2	HMX
8.050	10070	969	0.096	5.76		3	RDX
9.327	25790	1858	0.072	11.15		5	Picric ACID
10.630	21523	1716	0.080	10.21		6	1,3,5-Trinitrobenze
13.677	26558	1704	0.064	10.13		7	1,3-Dinitrobenzene
14.564	18348	1099	0.060	6.53		8	3,5-Dinitroaniline
15.177	14506	912	0.063	5.42		9	TETRYL
15.530	13691	797	0.058	4.74		10	Nitrobenzene
17.417	18239	992	0.054	5.90		12	2,4,6-Trinitrotolue
18.207	14143	763	0.054	4.53		13	4-AM-2,6-DNT
18.794	9834	523	0.053	3.11	$	1	3,4-Dinitrotoluene
19.330	18370	872	0.047	5.18		14	2-AM-4,6-DNT
21.054	12247	589	0.048	3.50		15	2,6-Dinitrotoluene
21.857	20496	962	0.047	5.72		16	2,4-Dinitrotoluene
25.440	11741	431	0.037	2.56		17	2-Nitrotoluene
26.990	214	34	0.159	0.20			
27.427	14666	532	0.036	3.16		18	4-Nitrotoluene
28.664	239	46	0.192	0.27			
29.574	15884	509	0.032	3.02		19	3-Nitrotoluene
	277664	16807		100.000			

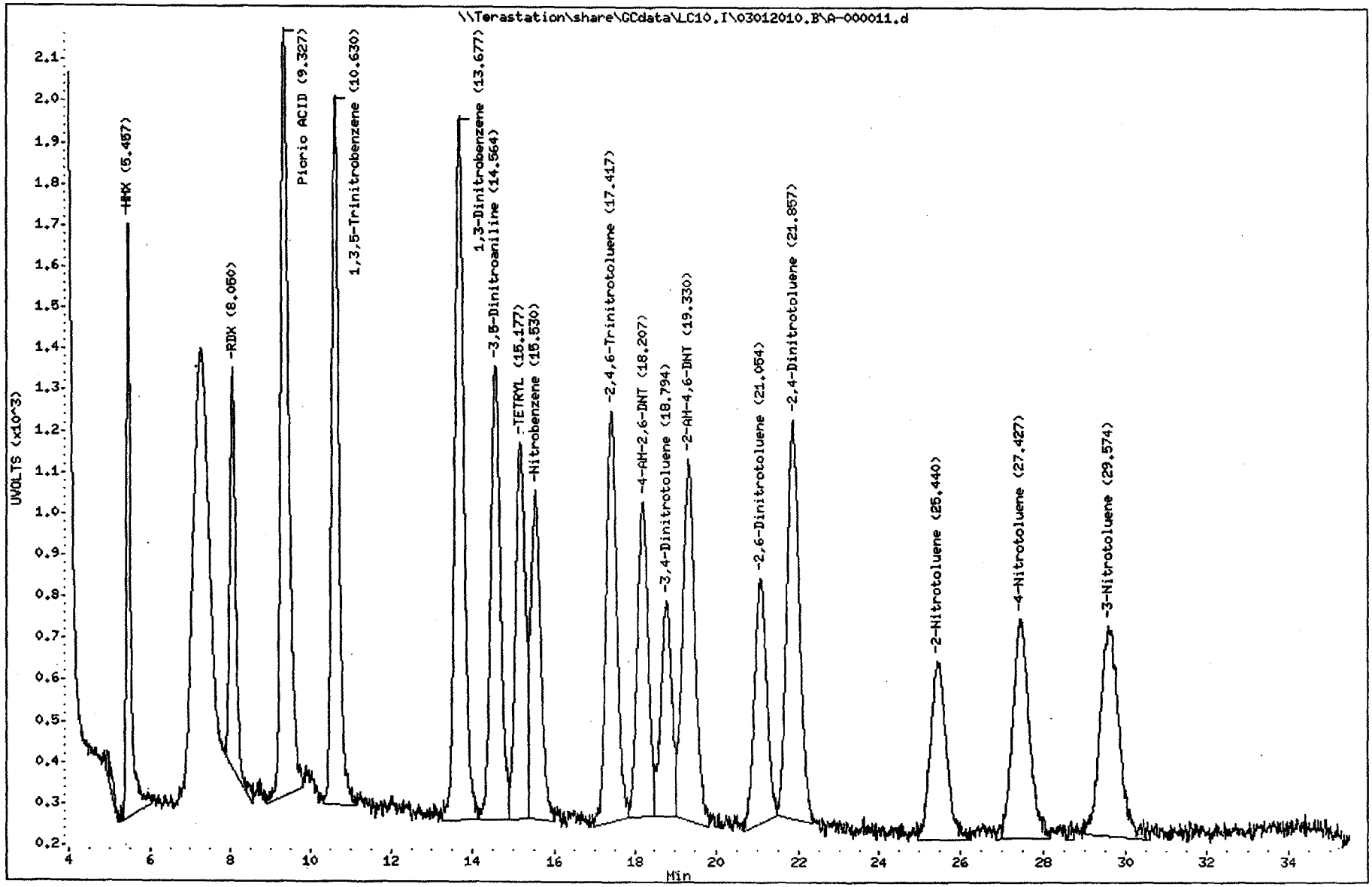
Total unknown % height = 0.8200

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d
Date : 01-MAR-2010 18:47
Client ID:
Sample Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1

Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011
Lab Smp Id: CS_02 10GCSV0047 83
Inj Date : 01-MAR-2010 18:47
Operator : NS Inst ID: LC10.i
Smp Info : CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1
Misc Info : ;2; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 18:47 Cal File: A-000011.d
Als bottle: 62 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.327	37712	2684	0.071	15.09		5 Picric ACID
13.674	13032	870	0.067	4.86		
14.567	20808	1200	0.058	6.70		
15.174	21432	1293	0.060	7.22		
15.537	26114	1346	0.052	7.52		
16.464	11110	661	0.059	3.69		11 Nitroglycerin
17.430	22032	1115	0.051	6.23		
18.217	25604	1202	0.047	6.71		
18.797	23362	1138	0.049	6.36	$	1 3,4-Dinitrotoluene
19.330	23643	993	0.042	5.54		
21.064	20706	1004	0.048	5.61		
21.867	18868	825	0.044	4.61		
24.830	407	61	0.150	0.34		
25.474	27528	1053	0.038	5.88		
26.580	5360	199	0.037	1.11		
27.424	19997	729	0.036	4.07		
28.537	2688	109	0.041	0.60		
29.567	24556	859	0.035	4.80		
31.097	265	60	0.227	0.33		
31.334	437	59	0.135	0.32		
33.247	18911	432	0.023	2.41		20 PETN
	364571	17892		100.000		

Total unknown % height = 72.45

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011.d

Date : 01-MAR-2010 18:47

Client ID:

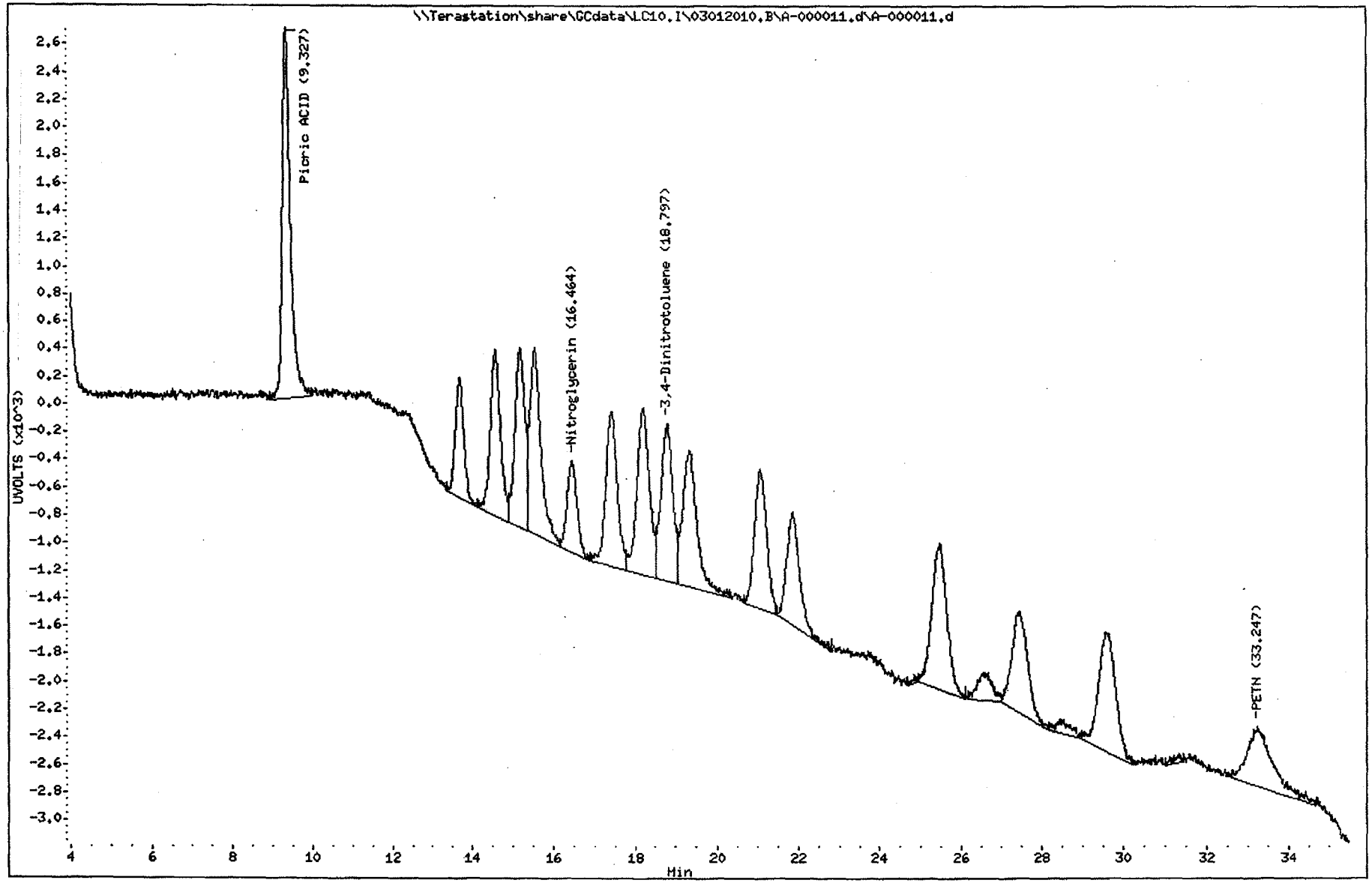
Instrument: LC10.i

Sample Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012
Lab Smp Id: CS_03 10GCSV0048 83
Inj Date : 01-MAR-2010 19:35
Operator : NS Inst ID: LC10.i
Smp Info : CS_03 10GCSV0048 8330 ICAL L3 20ng/mL;1
Misc Info : ;3; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 19:35 Cal File: A-000012.d
Als bottle: 63 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

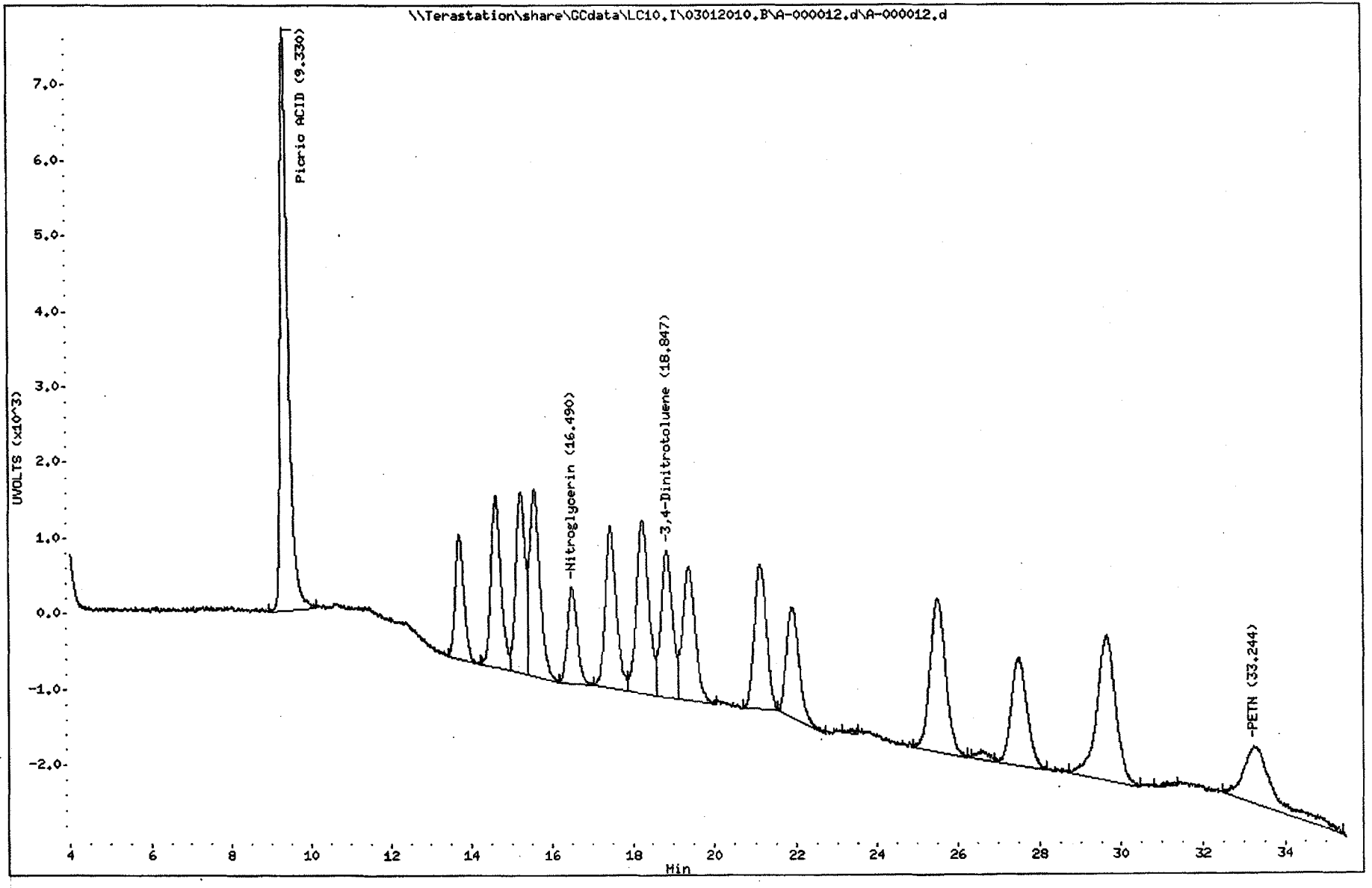
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.330	106240	7713	0.073	21.69		5 Picric ACID
13.697	25413	1657	0.065	4.63		
14.607	38842	2279	0.059	6.38		
15.227	38286	2408	0.063	6.74		
15.574	45833	2483	0.054	6.95		
16.490	21629	1271	0.059	3.55		11 Nitroglycerin
17.467	41361	2155	0.052	6.03		
18.257	47481	2291	0.048	6.41		
18.847	38195	1941	0.051	5.43	$	1 3,4-Dinitrotoluene
19.394	38016	1764	0.046	4.93		
21.124	39485	1910	0.048	5.34		
21.907	32676	1467	0.045	4.10		
23.324	684	57	0.083	0.15		
25.500	54484	2025	0.037	5.67		
26.567	2486	122	0.049	0.34		
27.527	38479	1421	0.037	3.97		
29.640	61616	1922	0.031	5.38		
31.030	938	66	0.070	0.18		
33.244	39826	761	0.019	2.13		20 PETN
	711969	35713		100.000		

Total unknown % height = 67.20

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012.d
Date : 01-MAR-2010 19:35
Client ID:
Sample Info: CS_03 10GCSV0048 8330 ICAL L3 20ng/mL;1

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



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A-000013.D

Chromatography Summary

Injection Date: 3/1/2010 20:24 **Operator:** NS

DataFile: LC10,N03012010.B\A-000013.D **Vial Num:** 64

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_04 10GCSV0049 8330 ICAL L4 50ng/mL**

Method File: LC10.N03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 20:24

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1

Misc. Info: ;4; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.81	2316	50		46.32	18.81	4744	50		94.88
HMX	5.46	6811	50		136.22✓			50		0
RDX	8.05	4789	50		95.78			50		0
Picric ACID	9.30	9168	100		91.68	9.30	13461	100		134.61
1,3,5-Trinitrobenzene	10.63	8360	50		167.2			50		0
1,3-Dinitrobenzene	13.68	8162	50		163.24			50		0
TETRYL	15.18	4408	50		88.16			50		0
Nitrobenzene	15.54	3846	50		76.92			50		0
2,4,6-Trinitrotoluene	17.44	4819	50		96.38			50		0
4-AM-2,6-DNT	18.21	3572	50		71.44			50		0
2-AM-4,6-DNT	19.36	4071	50		81.42			50		0
2,6-Dinitrotoluene	21.09	2815	50		56.3			50		0
2,4-Dinitrotoluene	21.89	4630	50		92.6			50		0
2-Nitrotoluene	25.50	2099	50		41.98			50		0
4-Nitrotoluene	27.49	2497	50		49.94			50		0
3-Nitrotoluene	29.65	2470	50		49.4			50		0
Nitroglycerin			50		0	16.47	3172	50		63.44
PETN			50		0	33.29	1531	50		30.62
3,5-Dinitroaniline	14.58	5320	50		106.4			50		0
EGDN			50		0			50		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:05 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d
Lab Smp Id: CS_04 10GCSV0049 83
Inj Date : 01-MAR-2010 20:24
Operator : NS Inst ID: LC10.i
Smp Info : CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1
Misc Info : ;4; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 20:24 Cal File: A-000013.d
Als bottle: 64 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.458	45436	6811	0.150	8.48		2 HMX
8.048	49685	4789	0.096	5.96		3 RDX
9.304	126738	9168	0.072	11.49		5 Picric ACID
10.628	104984	8360	0.080	10.41		6 1,3,5-Trinitrobenze
13.684	127399	8162	0.064	10.16		7 1,3-Dinitrobenzene
14.578	87627	5320	0.061	6.62		8 3,5-Dinitroaniline
15.184	70751	4408	0.062	5.49		9 TETRYL
15.538	66616	3846	0.058	4.79		10 Nitrobenzene
16.414	794	49	0.062	0.06		
17.438	86851	4819	0.055	6.00		12 2,4,6-Trinitrotolue
18.214	68102	3572	0.052	4.44		13 4-AM-2,6-DNT
18.808	42245	2316	0.055	2.88	$	1 3,4-Dinitrotoluene
19.361	85824	4071	0.047	5.07		14 2-AM-4,6-DNT
21.091	57775	2815	0.049	3.50		15 2,6-Dinitrotoluene
21.891	100836	4630	0.046	5.76		16 2,4-Dinitrotoluene
25.498	55654	2099	0.038	2.61		17 2-Nitrotoluene
27.491	71148	2497	0.035	3.11		18 4-Nitrotoluene
29.651	75929	2470	0.033	3.07		19 3-Nitrotoluene
31.271	501	33	0.066	0.04		
33.598	774	52	0.067	0.06		
	1325667	80287		100.000		

Total unknown % height = 0.1600

Data File: \\Terastation\share\GCdata\LC10,I\03012010.B\A-000013.d

Date : 01-MAR-2010 20:24

Client ID:

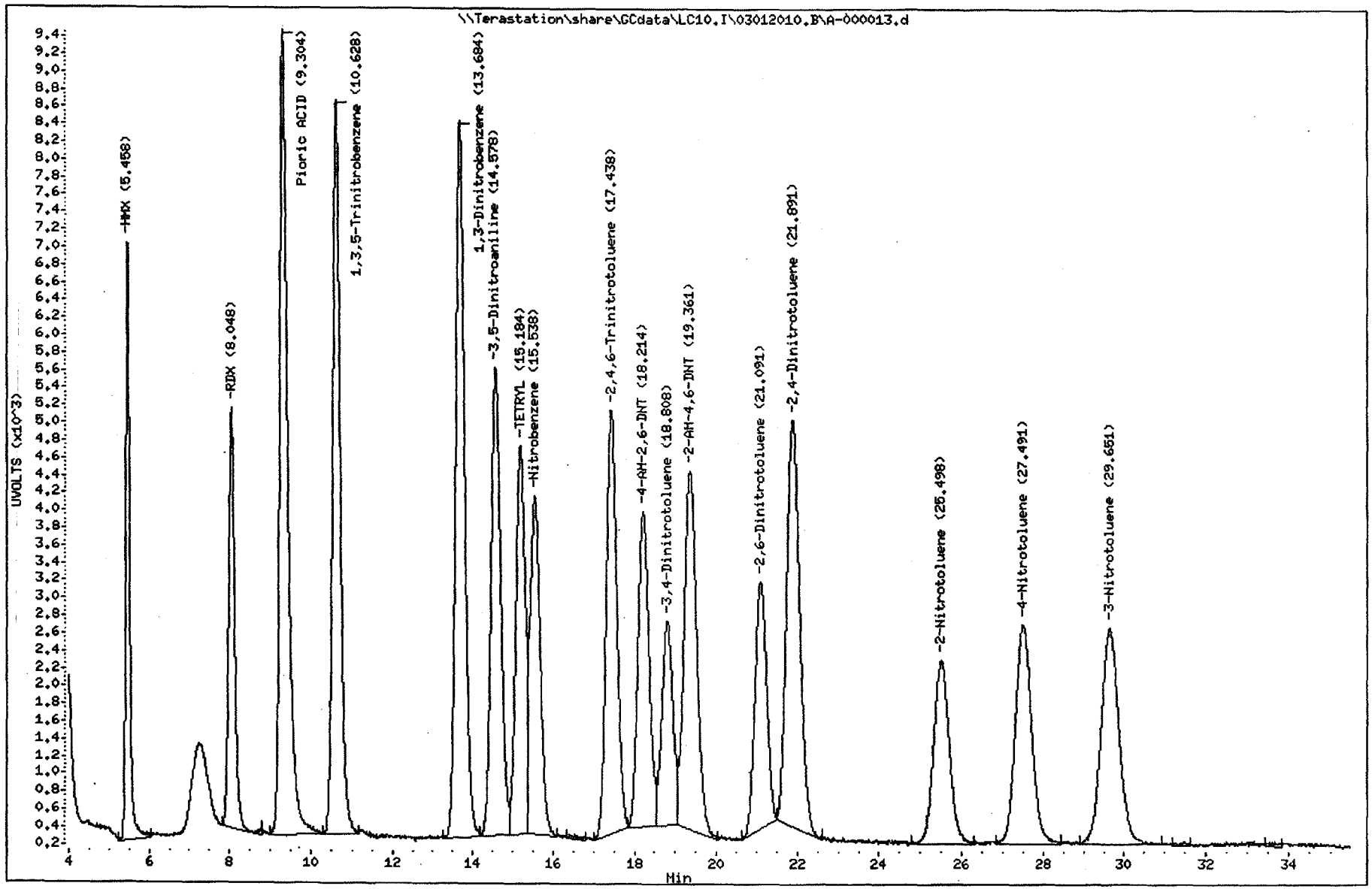
Sample Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1

Column phase: SYNERGI HYDRORP C18

Instrument: LC10,i

Operator: NS

Column diameter: 4.60



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Method 8330

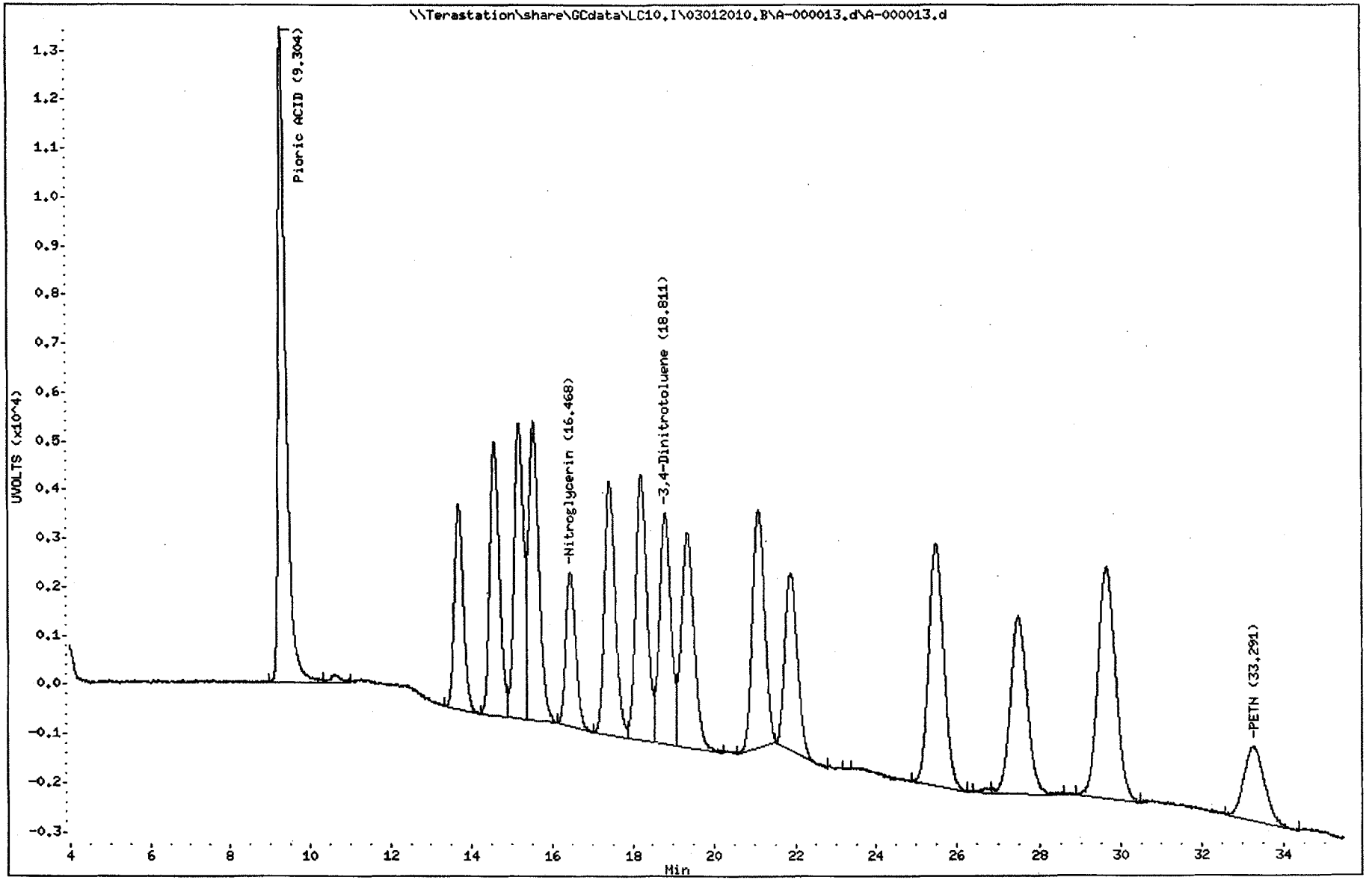
Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013
Lab Smp Id: CS_04 10GCSV0049 83
Inj Date : 01-MAR-2010 20:24
Operator : NS Inst ID: LC10.i
Smp Info : CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1
Misc Info : ;4; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 20:24 Cal File: A-000013.d
Als bottle: 64 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.304	185295	13461	0.073	16.49		5 Picric ACID
10.614	3096	161	0.052	0.19		
13.678	65133	4218	0.065	5.13		
14.584	93353	5620	0.060	6.84		
15.184	96571	6042	0.063	7.36		
15.544	110731	6137	0.055	7.47		
16.468	53997	3172	0.059	3.86		11 Nitroglycerin
17.434	96161	5220	0.054	6.35		
18.227	107414	5450	0.051	6.63		
18.811	91472	4744	0.052	5.77	$	1 3,4-Dinitrotoluene
19.344	96900	4395	0.045	5.35		
21.094	100166	4846	0.048	5.90		
21.874	78671	3597	0.046	4.38		
23.294	251	35	0.139	0.04		
25.498	129596	4969	0.038	6.05		
26.711	1501	100	0.067	0.12		
27.504	102174	3635	0.036	4.42		
29.648	141933	4757	0.034	5.79		
33.291	54975	1531	0.028	1.86		20 PETN
	1609390	82090		100.000		

Total unknown % height = 72.02

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d
Date : 01-MAR-2010 20:24
Client ID:
Sample Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL:1

Instrument: LC10.i
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



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A-000014.D

Chromatography Summary

Injection Date: 3/1/2010 21:12 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000014.D **Vial Num:** 65

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_05 10GCSV0072 8330 ICAL L5 100ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 21:12

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.81	4722	100		47.22	18.81	9643	100		96.43
HMX	5.47	12992	100		129.92			100		0
RDX	8.06	9110	100		91.1			100		0
Picric ACID	9.29	18284	200		91.42	9.29	26894	200		134.47
1,3,5-Trinitrobenzene	10.63	16047	100		160.47			100		0
1,3-Dinitrobenzene	13.68	15623	100		156.23			100		0
TETRYL	15.19	8137	100		81.37			100		0
Nitrobenzene	15.54	7347	100		73.47			100		0
2,4,6-Trinitrotoluene	17.44	8994	100		89.94			100		0
4-AM-2,6-DNT	18.23	6860	100		68.6			100		0
2-AM-4,6-DNT	19.35	7804	100		78.04			100		0
2,6-Dinitrotoluene	21.10	5415	100		54.15			100		0
2,4-Dinitrotoluene	21.88	8851	100		88.51			100		0
2-Nitrotoluene	25.49	3996	100		39.96			100		0
4-Nitrotoluene	27.49	4760	100		47.6			100		0
3-Nitrotoluene	29.63	4686	100		46.86			100		0
Nitroglycerin			100		0	16.47	6294	100		62.94
PETN			100		0	33.25	3028	100		30.28
3,5-Dinitroaniline	14.59	10143	100		101.43			100		0
EGDN			100		0			100		0

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/2/2010 9:05 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d
Lab Smp Id: CS_05 10GCSV0072 83
Inj Date : 01-MAR-2010 21:12
Operator : NS Inst ID: LC10.i
Smp Info : CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 21:12 Cal File: A-000014.d
Als bottle: 65 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
4.899	891	54	0.061	0.03			
5.465	84795	12992	0.153	8.43		2	HMX
8.059	94702	9110	0.096	5.91		3	RDX
8.752	1023	89	0.087	0.05			
9.292	250834	18284	0.073	11.98		5	Picric ACID
10.632	202288	16047	0.079	10.42		6	1,3,5-Trinitrobenze
13.149	154	48	0.313	0.03			
13.682	245159	15623	0.064	10.14		7	1,3-Dinitrobenzene
14.585	167761	10143	0.060	6.58		8	3,5-Dinitroaniline
15.192	128683	8137	0.063	5.28		9	TETRYL
15.542	129697	7347	0.057	4.77		10	Nitrobenzene
17.435	161386	8994	0.056	5.84		12	2,4,6-Trinitrotolue
18.225	130131	6860	0.053	4.45		13	4-AM-2,6-DNT
18.812	87264	4722	0.054	3.06	$	1	3,4-Dinitrotoluene
19.352	162723	7804	0.048	5.06		14	2-AM-4,6-DNT
21.099	110606	5415	0.049	3.51		15	2,6-Dinitrotoluene
21.879	193383	8851	0.046	5.74		16	2,4-Dinitrotoluene
25.489	104870	3996	0.038	2.59		17	2-Nitrotoluene
27.492	133962	4760	0.036	3.09		18	4-Nitrotoluene
29.625	143046	4686	0.033	3.04		19	3-Nitrotoluene
	2533356	153962		100.000			

Total unknown % height = 0.1100

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d

Date : 01-MAR-2010 21:12

Client ID:

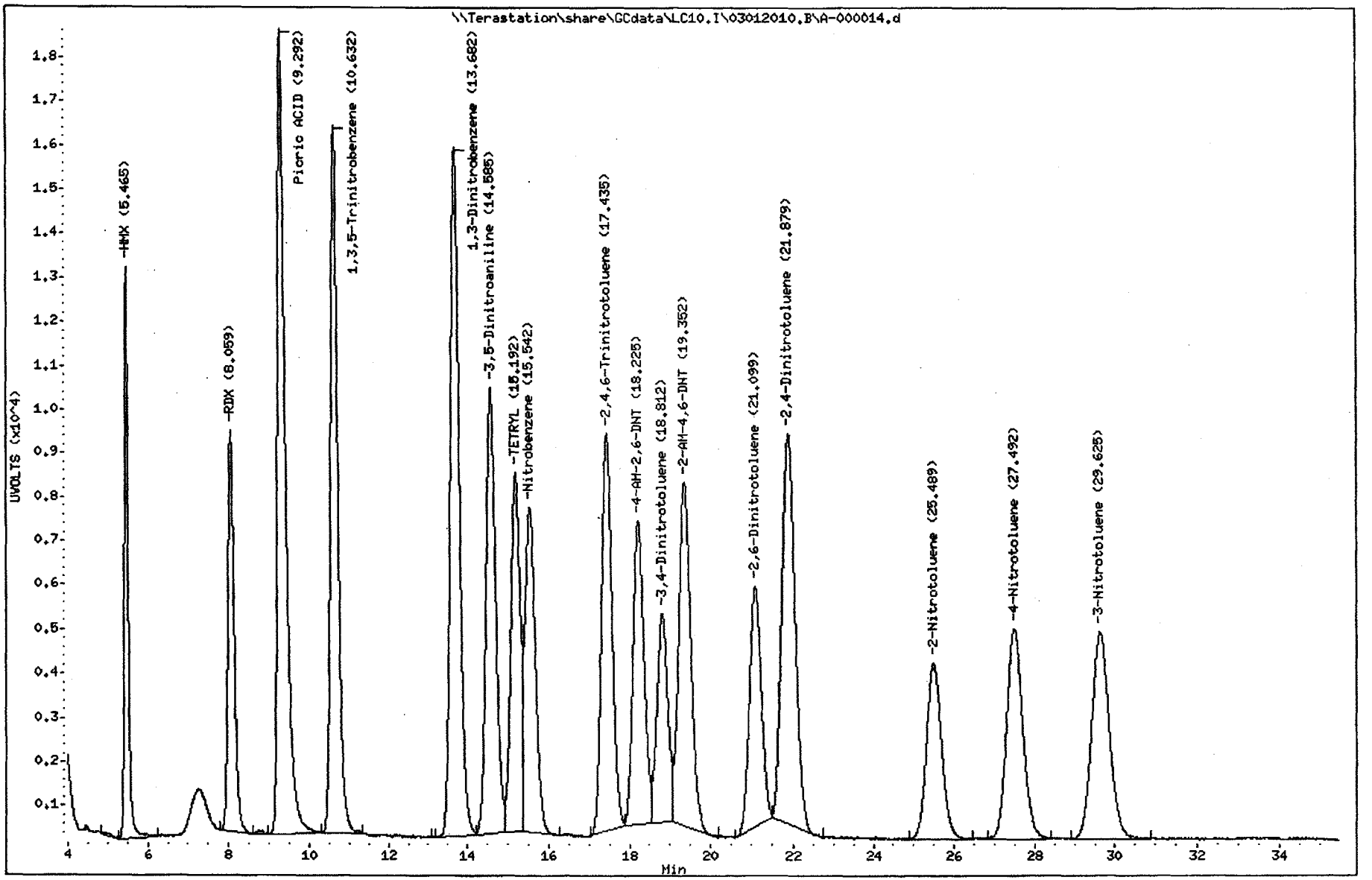
Instrument: LC10.i

Sample Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014
Lab Smp Id: CS_05 10GCSV0072 83
Inj Date : 01-MAR-2010 21:12
Operator : NS Inst ID: LC10.i
Smp Info : CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 21:12 Cal File: A-000014.d
Als bottle: 65 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.292	368801	26894	0.073	16.99		5 Picric ACID
10.642	3652	274	0.075	0.17		
13.685	126129	8084	0.064	5.08		
14.582	178328	10700	0.060	6.72		
15.192	176375	11068	0.063	6.95		
15.542	207658	11615	0.056	7.30		
16.472	107558	6294	0.059	3.95		11 Nitroglycerin
17.435	177451	9680	0.055	6.08		
18.222	206978	10475	0.051	6.58		
18.812	188383	9643	0.051	6.06	$	1 3,4-Dinitrotoluene
19.349	180809	8403	0.046	5.28		
21.095	210800	9689	0.046	6.09		
21.882	170677	7368	0.043	4.63		
25.492	247837	9554	0.039	6.00		
27.495	197576	6973	0.035	4.38		
29.625	284762	9302	0.033	5.84		
33.245	115468	3028	0.026	1.90		20 PETN
	3149242	159044		100.000		

Total unknown % height = 71.10

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014.d

Date : 01-MAR-2010 21:12

Client ID:

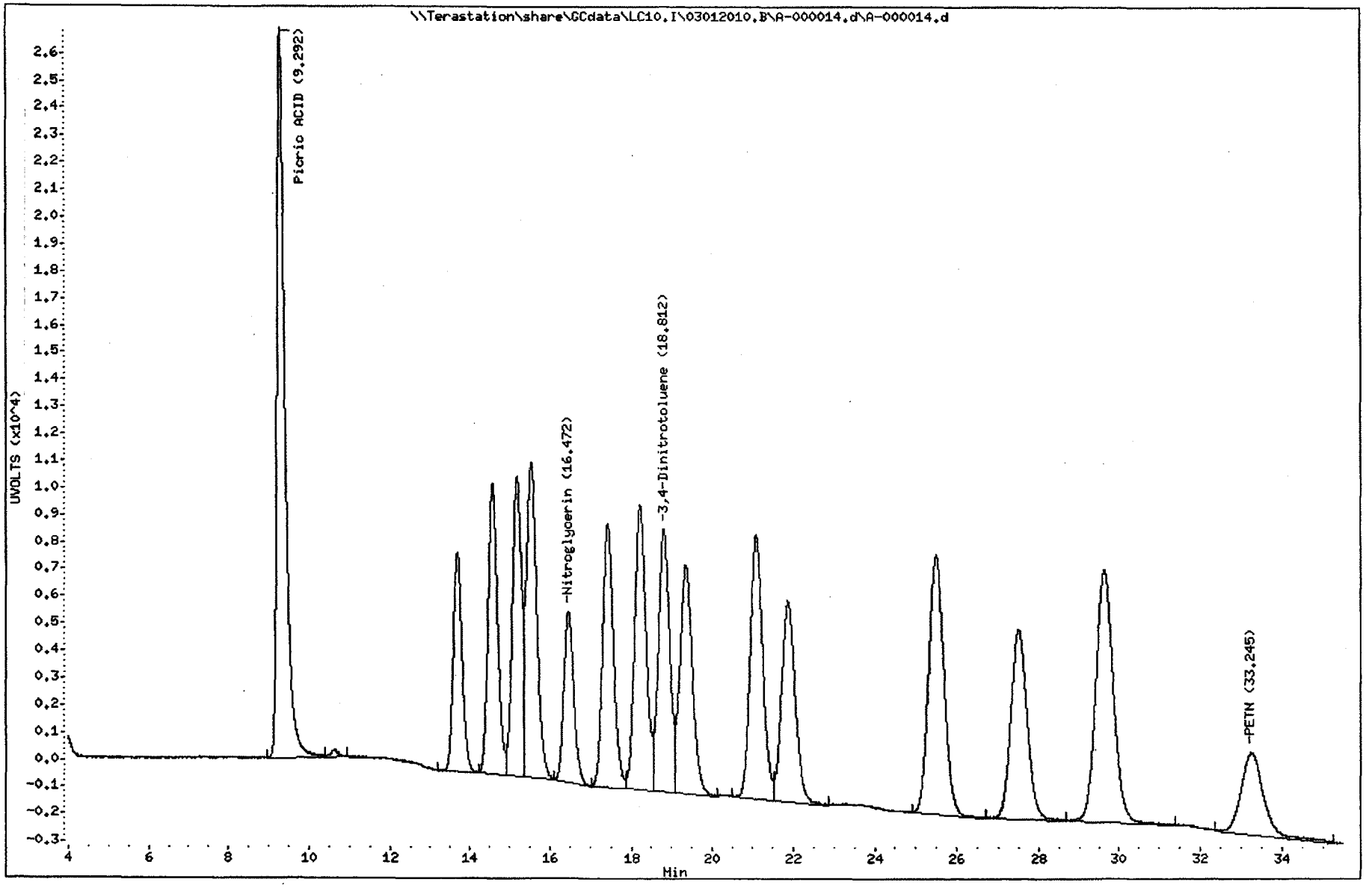
Instrument: LC10.i

Sample Info: CS_05 10CCSV0072 8330 ICAL L5 100ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000015.D

Chromatography Summary

Injection Date: 3/1/2010 22:01 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000015.D **Vial Num:** 66

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : CS_06 09GCSV0482 8330 ICAL L6 200ng/mL

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 22:01

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1

Misc. Info: ;6; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.78	9276	200		46.38	18.78	19015	200		95.075
HMX	5.46	25936	200		129.68 ✓			200		0
RDX	8.05	18350	200		91.75			200		0
Picric ACID	9.23	42896	500		85.792	9.23	63395	500		126.79
1,3,5-Trinitrobenzene	10.62	32235	200		161.175			200		0
1,3-Dinitrobenzene	13.67	31365	200		156.825			200		0
TETRYL	15.17	18187	200		90.935			200		0
Nitrobenzene	15.53	14816	200		74.08			200		0
2,4,6-Trinitrotoluene	17.42	18851	200		94.255			200		0
4-AM-2,6-DNT	18.19	13722	200		68.61			200		0
2-AM-4,6-DNT	19.33	15663	200		78.315			200		0
2,6-Dinitrotoluene	21.07	10842	200		54.21			200		0
2,4-Dinitrotoluene	21.85	17751	200		88.755			200		0
2-Nitrotoluene	25.44	7986	200		39.93			200		0
4-Nitrotoluene	27.44	9602	200		48.01			200		0
3-Nitrotoluene	29.58	9394	200		46.97			200		0
Nitroglycerin			200		0	16.45	12767	200		63.835
PETN			200		0	33.19	6111	200		30.555
3,5-Dinitroaniline	14.56	20374	200		101.87			200		0
EGDN			200		0			200		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:05 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d
Lab Smp Id: CS_06 09GCSV0482 83
Inj Date : 01-MAR-2010 22:01
Operator : NS Inst ID: LC10.i
Smp Info : CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:01 Cal File: A-000015.d
Als bottle: 66 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.457	166216	25936	0.156	8.16		2	HMX
8.047	189677	18350	0.097	5.77		3	RDX
8.730	1631	159	0.098	0.05			
9.234	591132	42896	0.073	13.61		5	Picric ACID
10.624	407448	32235	0.079	10.15		6	1,3,5-Trinitrobenze
11.860	1644	86	0.052	0.02			
13.670	488611	31365	0.064	9.87		7	1,3-Dinitrobenzene
14.560	335467	20374	0.061	6.41		8	3,5-Dinitroaniline
15.170	289540	18187	0.063	5.72		9	TETRYL
15.527	259183	14816	0.057	4.66		10	Nitrobenzene
17.417	336323	18851	0.056	5.93		12	2,4,6-Trinitrotolue
18.194	257823	13722	0.053	4.32		13	4-AM-2,6-DNT
18.784	169956	9276	0.055	2.92	$	1	3,4-Dinitrotoluene
19.327	325914	15663	0.048	4.93		14	2-AM-4,6-DNT
21.070	220190	10842	0.049	3.41		15	2,6-Dinitrotoluene
21.850	386688	17751	0.046	5.59		16	2,4-Dinitrotoluene
25.444	208911	7986	0.038	2.51		17	2-Nitrotoluene
27.440	270259	9602	0.036	3.02		18	4-Nitrotoluene
29.584	284175	9394	0.033	2.95		19	3-Nitrotoluene
	5190789	317491		100.000			

Total unknown % height = 0.07000

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d

Page 2

Date : 01-MAR-2010 22:01

Client ID:

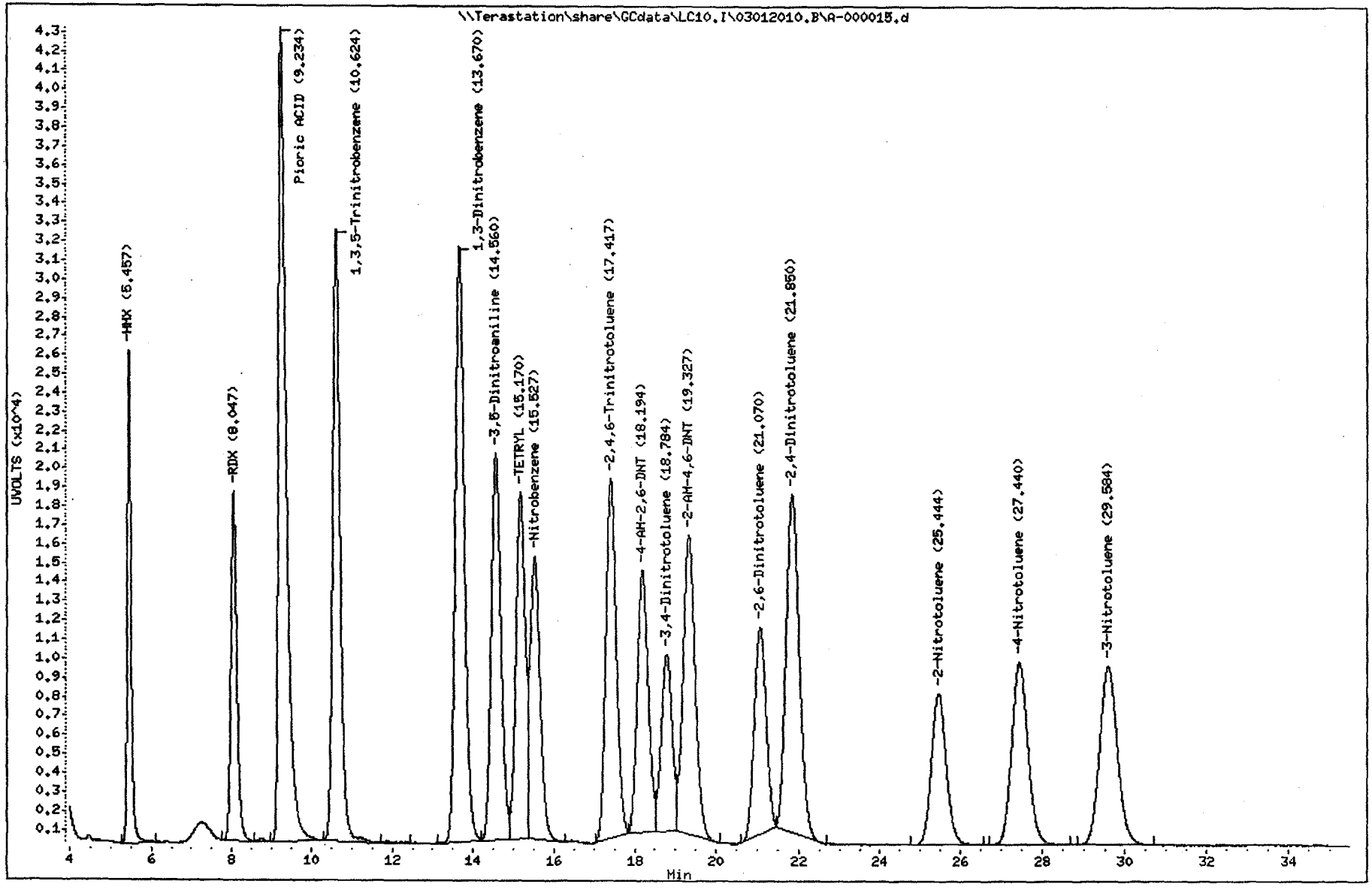
Instrument: LC10.i

Sample Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015
Lab Smp Id: CS_06 09GCSV0482 83
Inj Date : 01-MAR-2010 22:01
Operator : NS Inst ID: LC10.i
Smp Info : CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:01 Cal File: A-000015.d
Als bottle: 66 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.234	877907	63395	0.072	19.19		5 Picric ACID
10.604	7563	502	0.066	0.15		
13.670	251870	16263	0.065	4.90		
14.560	352985	21428	0.061	6.46		
15.170	390872	24641	0.063	7.42		
15.530	411489	23218	0.056	7.00		
16.454	217083	12767	0.059	3.84		11 Nitroglycerin
17.417	374262	20442	0.055	6.16		
18.194	411896	21054	0.051	6.34		
18.780	370374	19015	0.051	5.73	$	1 3,4-Dinitrotoluene
19.324	363092	16897	0.047	5.09		
21.070	421536	19456	0.046	5.86		
21.850	338306	14649	0.043	4.41		
25.447	503563	19242	0.038	5.80		
27.447	392412	13998	0.036	4.22		
29.580	556077	18569	0.033	5.59		
33.194	224921	6111	0.027	1.84		20 PETN
	6466209	331647		100.000		

Total unknown % height = 69.40

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015.d

Page 2

Date : 01-MAR-2010 22:01

Client ID:

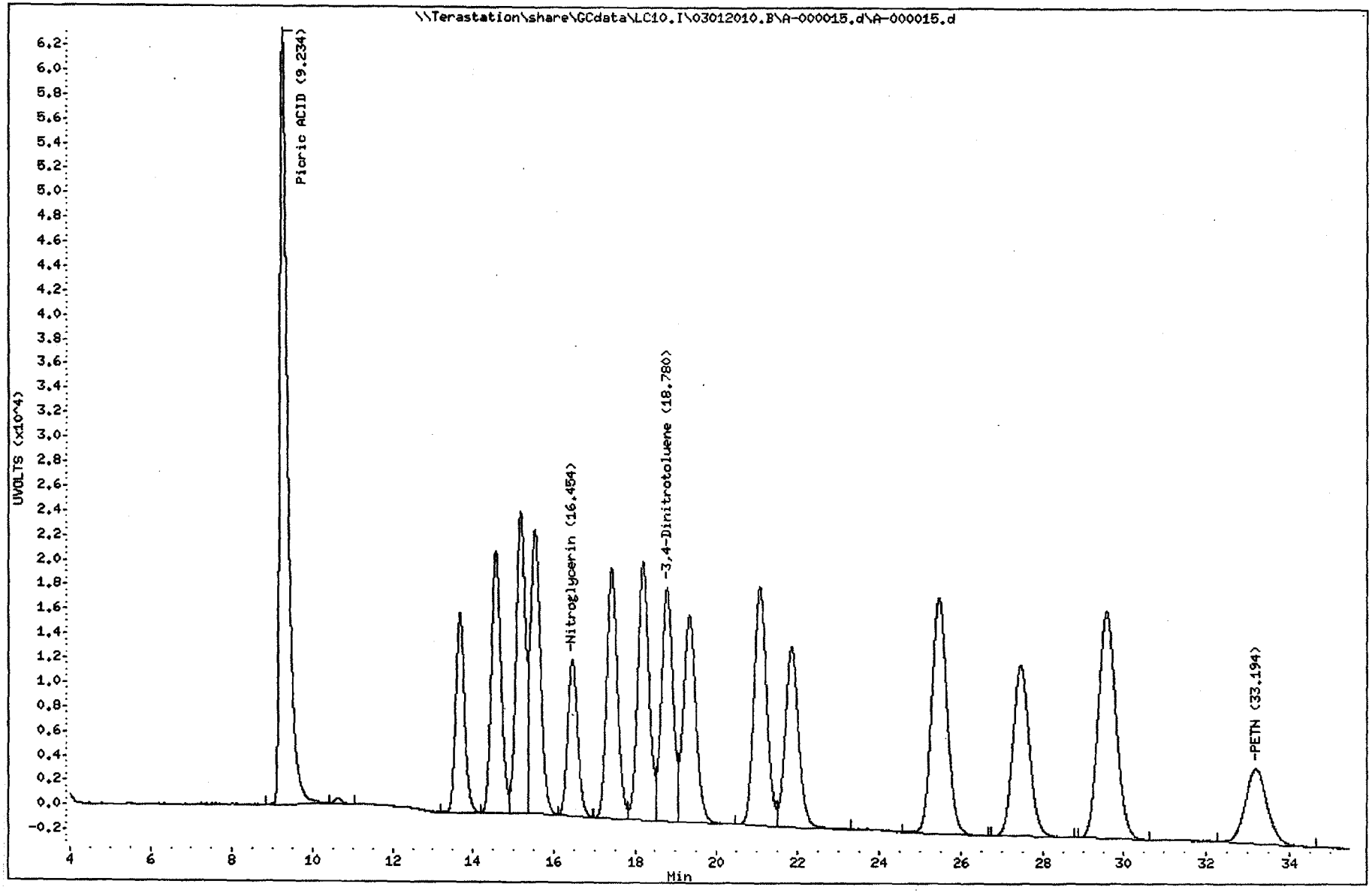
Instrument: LC10.i

Sample Info: CS_06 09CCSV0482 8330 ICAL L6 200ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000016.D

Chromatography Summary

Injection Date: 3/1/2010 22:49 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000016.D **Vial Num:** 67

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_07 10GCSV0050 8330 ICAL L7 500ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Misc. Info: ;7; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	**RT**	**Response**	**Spike Level**	**Flag**	**Response Factor**	**RT**	**Response**	**Spike Level**	**Flag**	**Response Factor**
3,4-Dinitrotoluene	18.77	15143	300		50.47666667	18.77	28557	300		95.19
HMX	5.45	62615	500		125.23			500		0
RDX	8.02	41614	500		83.228			500		0
Picric ACID	9.16	80007	1000		80.007	9.16	118234	1000		118.234
1,3,5-Trinitrobenzene	10.60	76711	500		153.422			500		0
1,3-Dinitrobenzene	13.65	73699	500		147.398			500		0
TETRYL	15.17	42860	500		85.72			500		0
Nitrobenzene	15.51	35969	500		71.938			500		0
2,4,6-Trinitrotoluene	17.41	46415	500		92.83			500		0
4-AM-2,6-DNT	18.18	34807	500		69.614			500		0
2-AM-4,6-DNT	19.31	39096	500		78.192			500		0
2,6-Dinitrotoluene	21.06	27792	500		55.584			500		0
2,4-Dinitrotoluene	21.83	45016	500		90.032			500		0
2-Nitrotoluene	25.43	19577	500		39.154			500		0
4-Nitrotoluene	27.43	23579	500		47.158			500		0
3-Nitrotoluene	29.56	23281	500		46.562			500		0
Nitroglycerin			500		0	16.45	31894	500		63.788
PETN			500		0	33.18	15365	500		30.73
3,5-Dinitroaniline	14.55	48271	500		96.542			500		0
EGDN			500		0			500		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:13 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d
Lab Smp Id: CS_07 10GCSV0050 83
Inj Date : 01-MAR-2010 22:49
Operator : NS Inst ID: LC10.i
Smp Info : CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1
Misc Info : ;7; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:49 Cal File: A-000016.d
Als bottle: 67 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.451	416901	62615	0.150	8.49		2 HMX
8.024	480570	41614	0.087	5.64		3 RDX
8.731	3125	314	0.100	0.04		
9.165	1211667	80007	0.066	10.94		5 Picric ACID
10.605	1035221	76711	0.074	10.40		6 1,3,5-Trinitrobenze
11.848	1527	100	0.066	0.01		
13.655	1252608	73699	0.059	9.99		7 1,3-Dinitrobenzene
14.548	871282	48271	0.055	6.54		8 3,5-Dinitroaniline
15.168	708842	42860	0.060	5.81		9 TETRYL
15.508	678947	35969	0.053	4.87		10 Nitrobenzene
16.441	12261	474	0.039	0.06		
17.408	880489	46415	0.053	6.29		12 2,4,6-Trinitrotolue
18.181	728730	34807	0.048	4.72		13 4-AM-2,6-DNT
18.771	295106	15143	0.051	2.05	$	1 3,4-Dinitrotoluene
19.308	895530	39096	0.044	5.30		14 2-AM-4,6-DNT
21.058	624449	27792	0.045	3.76		15 2,6-Dinitrotoluene
21.835	1077151	45016	0.042	6.10		16 2,4-Dinitrotoluene
25.435	527736	19577	0.037	2.65		17 2-Nitrotoluene
27.435	681957	23579	0.035	3.19		18 4-Nitrotoluene
29.565	724652	23281	0.032	3.15		19 3-Nitrotoluene
33.008	394	56	0.142	0.00		
	13109141	737396		100.000		

Total unknown % height = 0.1100

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d

Date : 01-MAR-2010 22:49

Client ID:

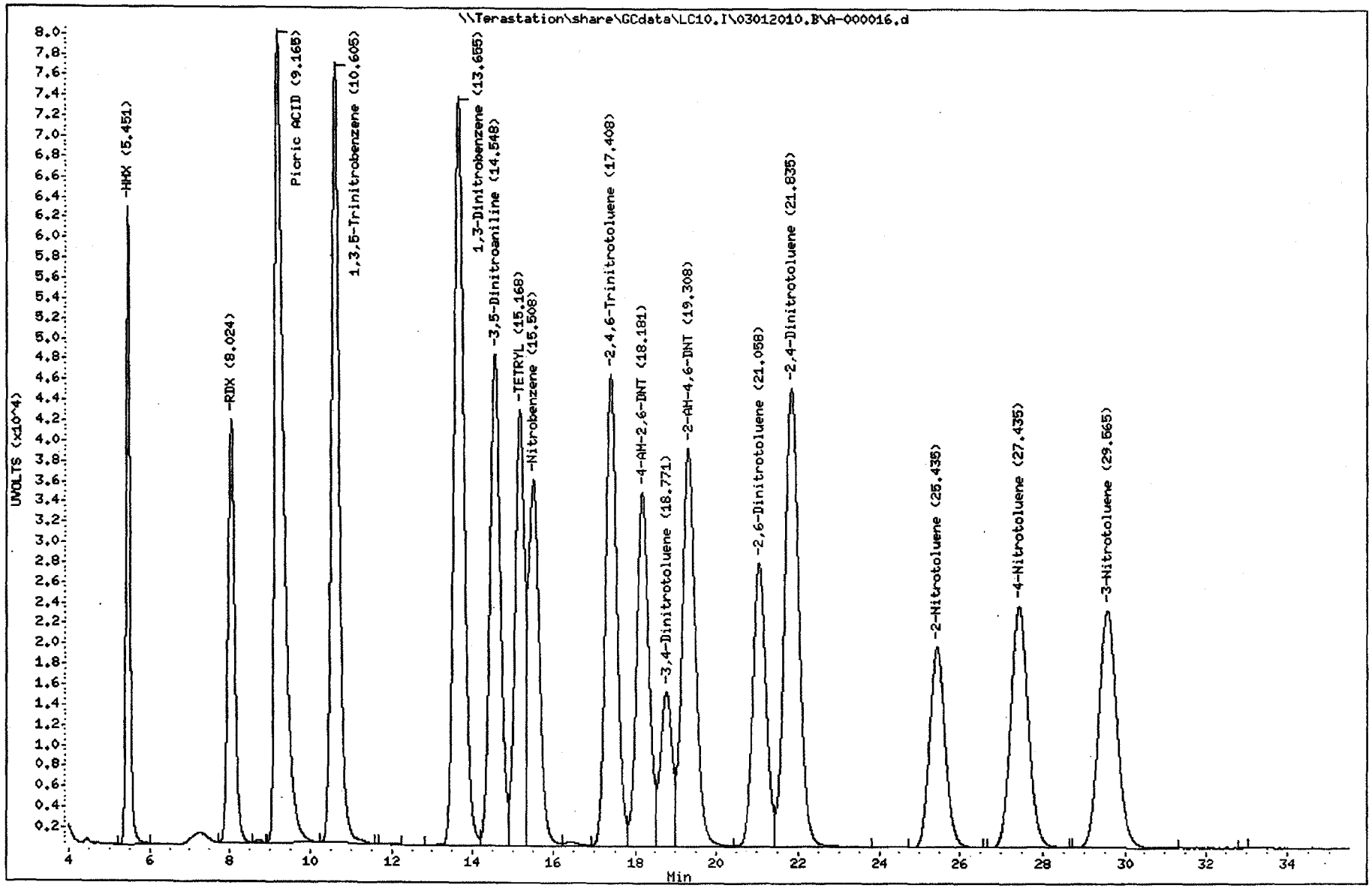
Sample Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i

Operator: NS

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d\A-000016
Lab Smp Id: CS_07 10GCSV0050 83
Inj Date : 01-MAR-2010 22:49
Operator : NS Inst ID: LC10.i
Smp Info : CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1
Misc Info : ;7; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:49 Cal File: A-000016.d
Als bottle: 67 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

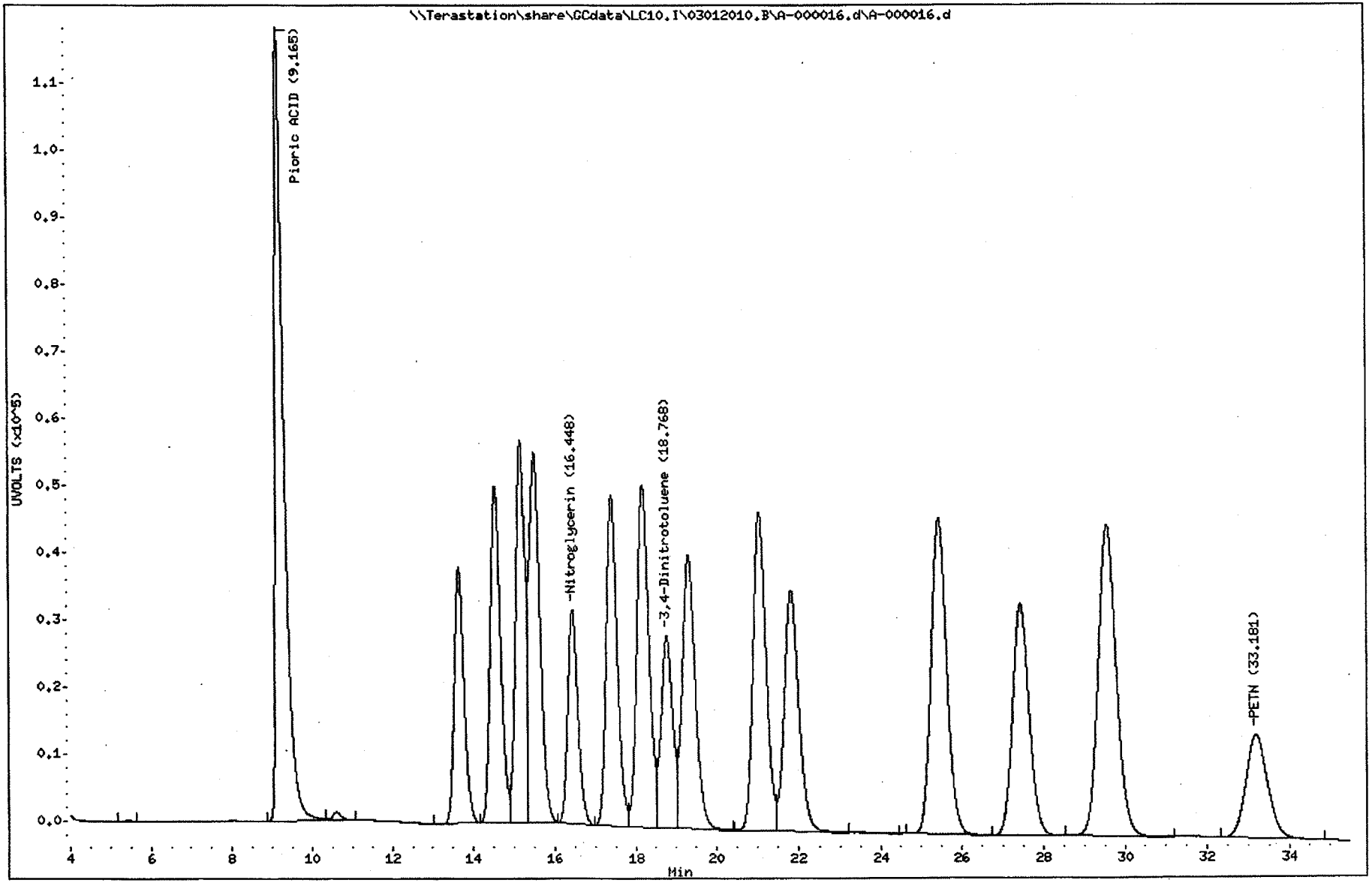
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.485	1226	134	0.109	0.01		
9.165	1801880	118234	0.066	15.92		5 Picric ACID
10.601	18148	1185	0.065	0.15		
13.655	634901	38065	0.060	5.09		
14.548	888354	50040	0.056	6.69		
15.168	920443	56978	0.062	7.62		
15.508	1035218	55007	0.053	7.36		
16.448	556361	31894	0.057	4.26		11 Nitroglycerin
17.408	925782	49266	0.053	6.59		
18.181	1051955	50896	0.048	6.81		
18.768	569495	28557	0.050	3.82	$	1 3,4-Dinitrotoluene
19.308	920348	40623	0.044	5.43		
21.058	1064633	47412	0.045	6.34		
21.835	858571	35861	0.042	4.79		
24.598	268	47	0.175	0.00		
25.431	1265176	46976	0.037	6.28		
27.435	989216	34437	0.035	4.60		
29.568	1436953	46330	0.032	6.19		
33.181	561924	15365	0.027	2.05		20 PETN
	15500852	747307		100.000		

Total unknown % height = 73.95

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d\A-000016.d
Date : 01-MAR-2010 22:49
Client ID:
Sample Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL:1

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

A-000017.D

Chromatography Summary

Injection Date: 3/1/2010 23:38 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000017.D **Vial Num:** 68

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample: **CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1

Misc. Info: ;8; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.72	24230	500	O	48.46	18.72	45462	500		90.924
HMX	5.43	113959	1000		113.959			1000		0
RDX	7.98	69009	1000		69.009			1000		0
Picric ACID	9.05	140424	2000		70.212	9.05	207615	2000		103.8075
1,3,5-Trinitrobenzene	10.57	138309	1000		138.309			1000		0
1,3-Dinitrobenzene	13.60	129439	1000		129.439			1000		0
TETRYL	15.13	82698	1000		82.698			1000		0
Nitrobenzene	15.44	65004	1000		65.004			1000		0
2,4,6-Trinitrotoluene	17.37	87754	1000		87.754			1000		0
4-AM-2,6-DNT	18.12	63160	1000		63.16			1000		0
2-AM-4,6-DNT	19.24	70541	1000		70.541			1000		0
2,6-Dinitrotoluene	21.00	51559	1000		51.559			1000		0
2,4-Dinitrotoluene	21.78	83626	1000		83.626			1000		0
2-Nitrotoluene	25.38	36496	1000		36.496			1000		0
4-Nitrotoluene	27.38	44327	1000		44.327			1000		0
3-Nitrotoluene	29.52	43900	1000		43.9			1000		0
Nitroglycerin			1000		0	16.40	58641	1000		58.641
PETN			1000		0	33.18	29443	1000		29.443
3,5-Dinitroaniline	14.48	83803	1000		83.803			1000		0
EGDN			1000		0			1000		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:13 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d
Lab Smp Id: CS_8 10GCSV0051 833
Inj Date : 01-MAR-2010 23:38
Operator : NS Inst ID: LC10.i
Smp Info : CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1
Misc Info : ;8; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 68 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

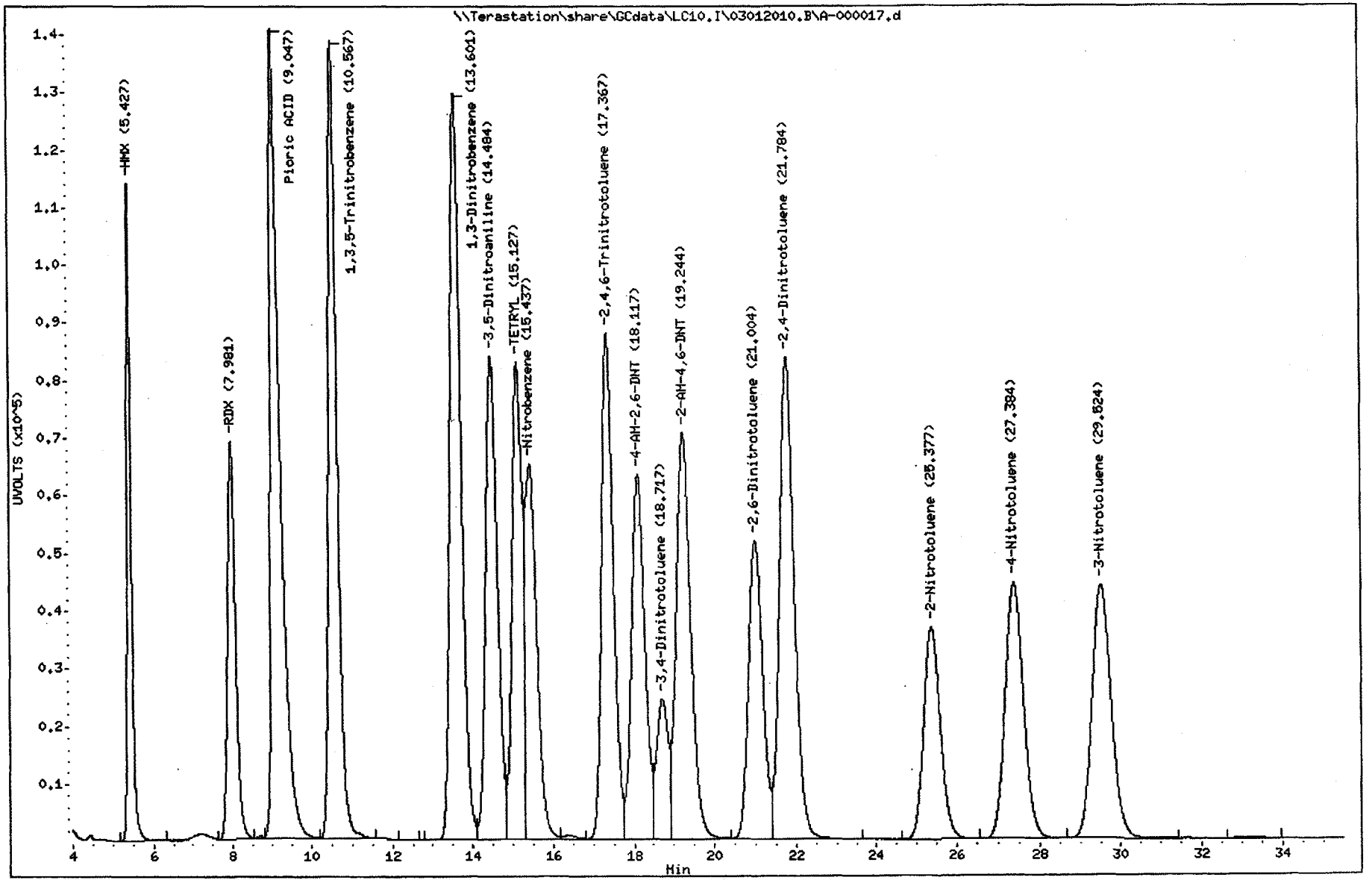
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.427	827431	113959	0.138	8.56		2 HMX
7.981	952597	69009	0.072	5.18		3 RDX
8.691	5167	488	0.094	0.03		
9.047	2441773	140424	0.058	10.67		5 Picric ACID
10.567	2048475	138309	0.068	10.40		6 1,3,5-Trinitrobenze
11.704	2378	130	0.055	0.00		
12.737	105	32	0.305	0.00		
13.601	2473570	129439	0.052	9.73		7 1,3-Dinitrobenzene
14.484	1724514	83803	0.049	6.30		8 3,5-Dinitroaniline
15.127	1459896	82698	0.057	6.21		9 TETRYL
15.437	1289673	65004	0.050	4.88		10 Nitrobenzene
16.384	20053	821	0.041	0.06		
17.367	1740145	87754	0.050	6.59		12 2,4,6-Trinitrotolue
18.117	1447688	63160	0.044	4.74		13 4-AM-2,6-DNT
18.717	479754	24230	0.051	1.82	$	1 3,4-Dinitrotoluene
19.244	1783414	70541	0.040	5.30		14 2-AM-4,6-DNT
21.004	1228917	51559	0.042	3.87		15 2,6-Dinitrotoluene
21.784	2134514	83626	0.039	6.28		16 2,4-Dinitrotoluene
25.377	1045252	36496	0.035	2.74		17 2-Nitrotoluene
27.384	1350743	44327	0.033	3.33		18 4-Nitrotoluene
29.524	1430938	43900	0.031	3.30		19 3-Nitrotoluene
33.121	6765	174	0.026	0.01		
	25893762	1329883		100.000		

Total unknown % height = 0.1000

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d
Date : 01-MAR-2010 23:38
Client ID:
Sample Info: CS_8 10CCSV0051 8330 ICAL L8 1000ng/mL;1

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



North Canton

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017
Lab Smp Id: CS_8 10GCSV0051 833
Inj Date : 01-MAR-2010 23:38
Operator : NS Inst ID: LC10.i
Smp Info : CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1
Misc Info : ;8; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 68 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.447	1758	206	0.117	0.01		
9.047	3637561	207615	0.057	15.38		5 Picric ACID
10.571	37430	2140	0.057	0.15		
13.601	1240595	66569	0.054	4.90		
14.484	1731770	86220	0.050	6.35		
15.127	1874057	109833	0.059	8.09		
15.444	1974943	98419	0.050	7.25		
16.401	1064874	58641	0.055	4.32		11 Nitroglycerin
17.367	1824539	93001	0.051	6.85		
18.117	2091139	92202	0.044	6.79		
18.717	934453	45462	0.049	3.34	$	1 3,4-Dinitrotoluene
19.241	1843762	73481	0.040	5.41		
21.004	2100182	87867	0.042	6.47		
21.784	1707651	66631	0.039	4.90		
24.551	1208	115	0.095	0.00		
25.377	2506382	87542	0.035	6.44		
27.384	1957874	64603	0.033	4.75		
29.524	2846434	87440	0.031	6.44		
33.177	1095804	29443	0.027	2.16		20 PETN
	30472416	1357430		100.000		

Total unknown % height = 74.80

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017.d

Date : 01-MAR-2010 23:38

Client ID:

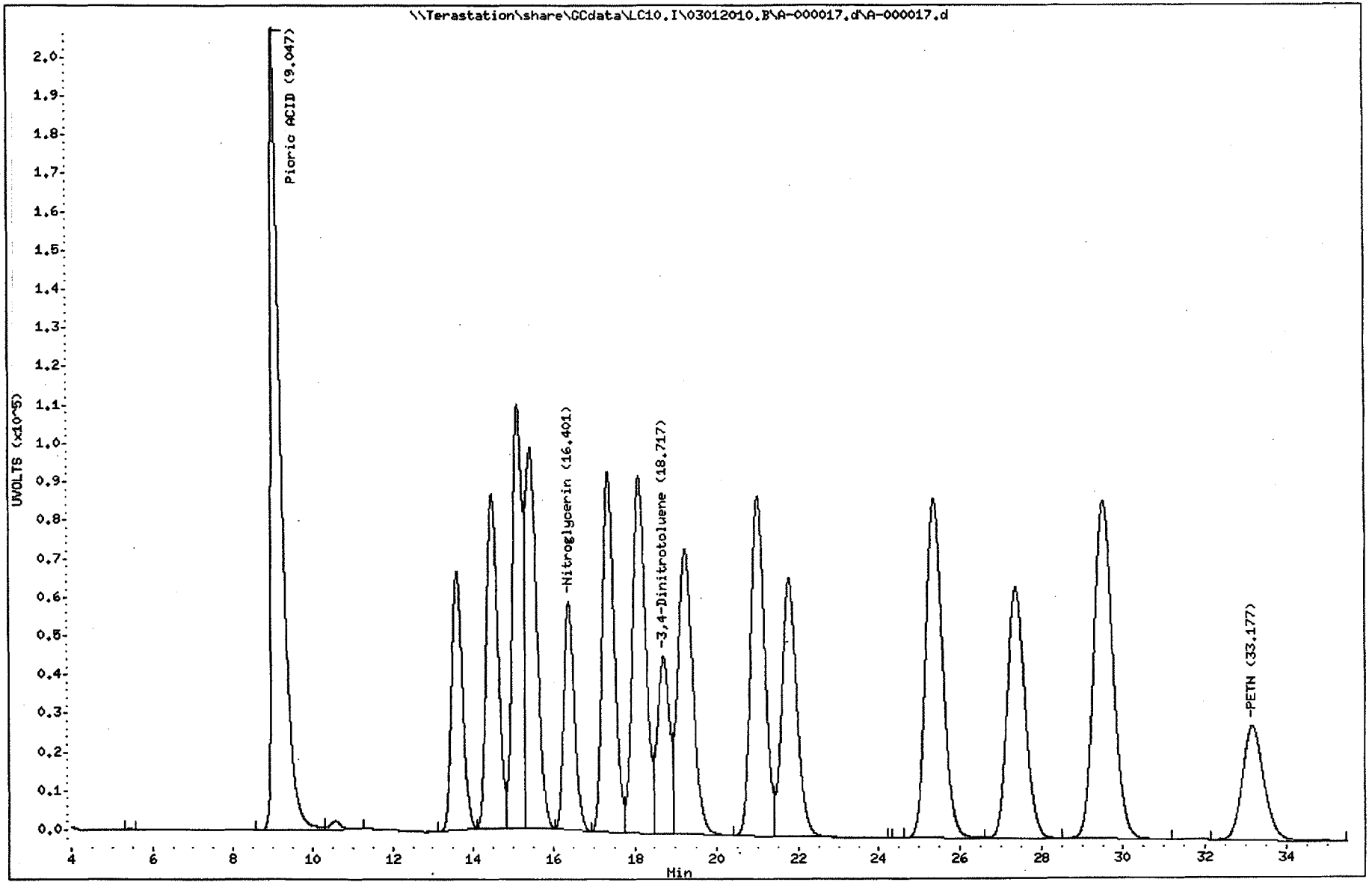
Instrument: LC10.i

Sample Info: CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL:1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



Sample Extraction/Preparation Log Copies

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

GC/HPLC Data Review Checklist

Lot ID: AQC050520 **Test:** 8330B **PM:** MJL

Prep Batch(es) 0068272 **Due Date:** 3/26/10 **NCM:** Y (N)

A.			
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV Criteria met.	✓	✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria	✓	✓	
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.			✓
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
B. QA/QC			
1. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
2. LCS/LCSD and MB data is included.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	✓	✓	
4. MS/MSD data complete.	✓	✓	
5. Holding Times were met.	✓	✓	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	✓	✓	
2. Logbooks/prep sheets properly filled out.	✓	✓	
3. Manual Integrations reviewed and appropriate.			✓
4. All raw data for samples is included (applies to unused data as well)	✓	✓	
5. All analytes correctly reported.	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: _____ Date: 3/26/10

2nd Level Reviewer: _____ Date: 3/26/10

Comments:

_____

_____

_____

_____

1484

TestAmerica West Sacramento
ESC-Extraction Master Sheet

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Holding Time Due: 3/10/10 | Project Due: 3/19/10 | Date: 3/9/10
BATCH #: 0068272 | Initiated By: TP | Date: 3-10-10
Test #: 8330B-S | Extn Comp'd By: HA

QC Code	Lot ID	Sample #	Sample Size / Initial Mass	Final Volume mL / Final Mass	Chlorine checked
	MB		10.00	80.00	3-10-10 ND
	LCS		10.00	80.00	
	AOB260454	01	10.01	80.00	
		01MS	10.10	80.00	
		01MSD	10.03	80.00	
		02	10.12	80.00	
		03	10.38	80.00	
		04	10.24	80.00	
		05	10.09	80.00	
		~~SDUP~~	~~10.17~~	80.00	
		~~STRI~~	~~10.20~~	80.00	
		08	10.03	80.00	
		09	10.24	80.00	
		11	10.51	80.00	
		16	10.10	80.00	
	ACC050520	01	10.50	80.00	
		02	10.67	80.00	
	AOB260454	10	10.12	80.00	
				3-10-10 ND	

SOP No.: WS-LC-0009

EXTRACTION COMMENTS:
Multi-incremental Sampling/Date: 3/9/10

Dried/Date 3/4/10 Ground//Date 3/9/10
Sonicated - Start: 3/9/10 @ 14:00 End: 8:00 Date: 3/10/10 3/10 3/9/10 TP

Cleanup by/Date ND 3/10/10 Dilution by/Date HA 3/10/10

Final Vialling /Date ND 3/10/10

Millipore Water Dispensed / Date N/A

SPE Cartridge: Waters Lot # N/A

NOT NEEDED. NOT REPORTED. m 3/9/10

Standard Information

QC Codes	Volume	STD ID	Exp. Date	STD Name/Conc.	ppm/ppb
All	100uL	09GCSV0476	6/2/10	3,4-DNT 50ug/mL	0.50
C,S,D	100uL	09GCSV0472	6/2/10	8330+DNA 50ug/mL	0.50
C,S,D	200uL	09GCSV0481	6/2/10	NG/PETN 50ug/mL	1.0

Spiked By / Date: TP 3/9/10 Witnessed By / Date: NS 3/9/10

QC Codes: B = MB, C = LCS, ~~L = LCSD, S = MS, D = SD~~, FB = Filter Blank

North Canton

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/10/10
Time: 14:16:20

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets
					computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 002448 Tuan Q. Phan

Concentrationist: 000915 Horacio J. Arauz

****
* *
* QC BATCH: 0068272 *
* *
****

PREP DATE: 3/09/10 13:00
COMP DATE: 3/10/10 13:00

Reviewer/Date: PHANT / 3/09/10

Nitroaromatics & Nitramines: Explosives (8330B)
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/11/10	3/19/10	A0B260454-001 **LV41M-1-A8**	0068156 D	13	88	SOLID	**10.01g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/11/10	3/19/10	A0B260454-001 **LV41M-1-DVS**	0068156 D	13	88	SOLID	**10.10g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															
3/11/10	3/19/10	A0B260454-001 **LV41M-1-DWD**	0068156 D	13	88	SOLID	**10.03g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															
3/11/10	3/19/10	A0B260454-002 **LV41R-1-AK**	0068156 D	13	88	SOLID	**10.12g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/11/10	3/19/10	A0B260454-003 **LV41V-1-A4**	0068156 D	13	88	SOLID	**10.38g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/11/10	3/19/10	A0B260454-004 **LV412-1-AF**	0068156 D	13	88	SOLID	**10.24g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/11/10	3/19/10	A0B260454-005 **LV414-1-AM**	0068156 D	13	88	SOLID	**10.09g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/10/10
Time: 14:16:20

QC BATCH: 0068272

PREP DATE: 3/09/10 13:00
COMP DATE: 3/10/10 13:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
* ~~3/11/10~~	~~3/19/10~~	A0B260454-005 ~~LV414-1-A6X~~	0068156 D	13	88	SOLID	~~10.17g~~ ~~80.00mL~~	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS: DUPLICATE															
* ~~3/11/10~~	~~3/19/10~~	A0B260454-005 ~~LV414-1-A7X~~	0068156 D	13	88	SOLID	~~10.10g~~ 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS: TRIPLICATE															
3/11/10	3/19/10	A0B260454-008 **LV42P-1-A8**	0068156 D	13	88	SOLID	**10.03g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/19/10	A0B260454-009 **LV42V-1-A6**	0068156 D	13	88	SOLID	**10.24g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/11/10	3/19/10	A0B260454-010 **LV42W-1-A8**	0068156 D	13	88	SOLID	**10.12g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/11/10	3/19/10	A0B260454-011 **LV421-1-AH**	0068156 D	13	88	SOLID	**10.51g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/11/10	3/19/10	A0B260454-016 **LV43E-1-A8**	0068156 D	13	88	SOLID	**10.10g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/26/10	A0C050520-001 **LWCWH-1-A4**	0068156 D	13	88	SOLID	**10.50g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-A8**	0068156 D	13	88	SOLID	**10.67g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/11/10	0/00/00	G0C090000-272 **LWFV5-1-AAB**		13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															

* NOT NEEDED. NOT REPORTED m 3/19/10

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/10/10
Time: 14:16:20

QC BATCH: 0068272

PREP DATE: 3/09/10 13:00
COMP DATE: 3/10/10 13:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
		G0C090000-272													
3/11/10	0/00/00	**LWFV5-1-ACC**		13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476

COMMENTS:

0.1% HOAC/ACN 3844-009H; 1.3G/L CACL2 3844-009E;.45 FILTER MILLIPORE R9HN15546

LCS,MS/MSD 100UL-09GCSV0472,200UL-09GCSV0481

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 18

Incremental Sub-Sampling

Sample ID	Analyst Initials	Date/Time Sample Drying Started	Date/Time Sample Drying Ended	Particle size needed (circle one)	Project Specific Data (Method and Required Sample Mass in Header) Record Final Mass of Each Requested Test: 8330 B, 10 g
NCP-2166454-01	HA	3/4/10 09:30	3/9/10 9:00	Course Fine	165.45
02	"	"	"	Course Fine	137.45
03	"	"	"	Course Fine	154.70
04	"	"	"	Course Fine	170.36
05	"	"	"	Course Fine	161.40
08	"	"	"	Course Fine	144.23
09	"	"	"	Course Fine	87.98
10	"	"	"	Course Fine	107.15
11	"	"	"	Course Fine	89.81
16	"	"	"	Course Fine	96.18
NCP-2166520-01	TP	3/8/10 11:30	3/9/10 10:00	Course Fine	166.78
NCP-2166520-02	TP	"	"	Course Fine	118.29
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	

particle size:
Course=10 mesh (2mm)
Fine = 30 mesh (600um)

Prep Batch/Test: 0068272 Test: 8330B-S

Prep Date: 3/9/10 Holding Times: 3/10/10 NCM: Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	✓
5. Spiking volumes are correctly documented	✓	✓
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	✓
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: Walter Sedlacek Date: 3/9/10

2nd Level Reviewer: [signature] Date: 3/10/10

Comments:

SOLID, 8330M, Nitroguanidine

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

initial/continuing calibration standards

interference/performance check standards

initial/continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC12 Batch ID: 03152010
Method : Method 8330 Nitroguanidine Test : SOP WS-LC-0010
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
15-MAR-2010	14:42	DG	Primer 1000	A-000001.	0 g	0 mL	1	
15-MAR-2010	15:00	DG	Primer 1000	A-000002.	0 g	0 mL	1	
15-MAR-2010	15:17	DG	Primer 1000	A-000003.	0 g	0 mL	1	
15-MAR-2010	15:35	DG	Primer 1000	A-000004.	0 g	0 mL	1	
15-MAR-2010	15:53	DG	Water blank	A-000005.	0 g	0 mL	1	
15-MAR-2010	16:11	DG	CCV4 09GCSV0430 NQ 200ng/mL	A-000006.	0 g	0 mL	1	
15-MAR-2010	16:29	DG	G0C040000-MB, 0063249, 10mL/10	A-000007.	10 mL	10 mL	1	
15-MAR-2010	16:46	DG	G0C040000-LCS, 0063249, 10mL/1	A-000008.	10 mL	10 mL	1	
15-MAR-2010	17:04	DG	LV42G1A7 A0B260454-7 0063249 1	A-000009.	10 mL	10 mL	1	
15-MAR-2010	17:22	DG	LV4241A7 A0B260454-12 0063249	A-000010.	10 mL	10 mL	1	
15-MAR-2010	17:40	DG	LV4281A1 A0B260454-13 0063249	A-000011.	10 mL	10 mL	1	
15-MAR-2010	17:58	DG	LV4281A2S A0B260454-13MS 00632	A-000012.	10 mL	10 mL	1	
15-MAR-2010	18:15	DG	LV4281A3D A0B260454-13SD 00632	A-000013.	10 mL	10 mL	1	
15-MAR-2010	18:33	DG	LV43C1AA A0B260454-14 0063249	A-000014.	10 mL	10 mL	1	
15-MAR-2010	18:51	DG	LV43H1A7 A0B260454-17 0063249	A-000015.	10 mL	10 mL	1	
15-MAR-2010	19:09	DG	CCV3 09GCSV0429 NQ 100ng/mL	A-000016.	0 g	0 mL	1	
15-MAR-2010	19:27	DG	LV7MC1A7 A0C020458-13 0063249	A-000017.	10 mL	10 mL	1	
15-MAR-2010	19:44	DG	LV7ML1AJ A0C020458-14 0063249	A-000018.	10 mL	10 mL	1	
15-MAR-2010	20:02	DG	LV7MM1AV A0C020458-15 0063249	A-000019.	10 mL	10 mL	1	
15-MAR-2010	20:20	DG	LLV7MN1A7 A0C020458-16 0063249	A-000020.	10 mL	10 mL	1	
15-MAR-2010	20:38	DG	LV7MR1A7 A0C020458-18 0063249	A-000021.	10 mL	10 mL	1	
15-MAR-2010	20:56	DG	LWCKF1AAB G0C050000-MB 0064232	A-000022.	2 g	10 mL	1	
15-MAR-2010	21:13	DG	LWCKF1ACC G0C050000-LCS 006423	A-000023.	2 g	10 mL	1	
15-MAR-2010	21:31	DG	LV3KQ1A9 A0B250463-4 0064232	A-000024.	2 g	10 mL	1	
15-MAR-2010	21:49	DG	LV3KQ1CGS A0B250463-4MS 006423	A-000025.	2.04 g	10 mL	1	
15-MAR-2010	22:07	DG	LV3KQ1CHD A0B250463-4SD 006423	A-000026.	2.01 g	10 mL	1	
15-MAR-2010	22:25	DG	CCV3 09GCSV0429 NQ 100ng/mL	A-000027.	0 g	0 mL	1	
15-MAR-2010	22:43	DG	LV3KR1AL A0B250463-5 0064232	A-000028.	2.03 g	10 mL	1	
15-MAR-2010	23:01	DG	LV3LJ1A8 A0B250463-18 0064232	A-000029.	2 g	10 mL	1	
15-MAR-2010	23:19	DG	LV41M1A9 A0B260454-1 0064232	A-000030.	2.01 g	10 mL	1	
15-MAR-2010	23:37	DG	LV41R1AL A0B260454-2 0064232	A-000031.	2 g	10 mL	1	
15-MAR-2010	23:55	DG	LV42P1A9 A0B260454-8 0064232	A-000032.	2.02 g	10 mL	1	
16-MAR-2010	00:13	DG	LV42W1A9 A0B260454-10 0064232	A-000033.	1.99 g	10 mL	1	
16-MAR-2010	00:31	DG	LV43E1A9 A0B260454-16 0064232	A-000034.	2.02 g	10 mL	1	
16-MAR-2010	00:48	DG	LV7L01A9 A0C020458-11 0064232	A-000035.	2.01 g	10 mL	1	
16-MAR-2010	01:06	DG	LV7L11A9 A0C020458-12 0064232	A-000036.	1.99 g	10 mL	1	
16-MAR-2010	01:24	DG	LV8911AD A0C030537-1 0064232	A-000037.	2.01 g	10 mL	1	
16-MAR-2010	01:42	DG	CCV3 09GCSV0429 NQ 100ng/mL	A-000038.	0 g	0 mL	1	
16-MAR-2010	02:00	DG	LW8N31AAB G0C080000-MB 0067351	A-000039.	2 g	10 mL	1	
16-MAR-2010	02:18	DG	LW8N31ACC G0C080000-LCS 006735	A-000040.	2 g	10 mL	1	
16-MAR-2010	02:36	DG	LWAE61AD A0C040510-2 0067351	A-000041.	1.99 g	10 mL	1	
16-MAR-2010	02:53	DG	LWAE61AFS A0C040510-2MS 006735	A-000042.	2.02 g	10 mL	1	
16-MAR-2010	03:11	DG	LWAE61AGD A0C040510-2SD 006735	A-000043.	1.98 g	10 mL	1	
16-MAR-2010	03:29	DG	LWFWA1AAB G0C090000-MB 0068274	A-000044.	2 g	10 mL	1	
16-MAR-2010	03:47	DG	LWFWA1ACC G0C090000-LCS 006827	A-000045.	2 g	10 mL	1	
16-MAR-2010	04:05	DG	LWCWJ1A9 A0C050520-2 0068274	A-000046.	2 g	10 mL	1	
16-MAR-2010	04:23	DG	LWCWJ1CJS A0C050520-2MS 006827	A-000047.	2.04 g	10 mL	1	Wrong location
16-MAR-2010	04:41	DG	LWCWJ1CKD A0C050520-2SD 006827	A-000048.	2 g	10 mL	1	Wrong location
16-MAR-2010	04:59	DG	CCV3 09GCSV0429 NQ 100ng/mL	A-000049.	0 g	0 mL	1	
16-MAR-2010	05:17	DG	Water blank	A-000050.	0 g	0 mL	1	

~~Sequence continued on next page~~ DEL 3-16-10
END of run.

TestAmerica West Sacramento

A-000038.D

Chromatography Summary

Injection Date: 3/16/2010 1:42 **Operator:** DG

DataFile: LC12.I\03152010.B\A-000038.D **Vial Num:** 13

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CCV3 09GCSV0429 NQ 100ng/mL**

Method File: LC12.I\03152010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CCV3 09GCSV0429 NQ 100ng/mL;2

Misc. Info: ;3;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250,265~~ 263 Signal 2 ~~UV 358,205~~ NA

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.38	38366	98.2000<	100	-2%	Acceptable					~~100~~	~~-100%~~	~~Fails~~ NA		(±15)	45

DEG 3-16-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

CCV in control.

Printed: 3/16/2010 15:39

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000038.D
Lab Smp Id: CCV3 09GCSV0429 NQ
Inj Date : 16-MAR-2010 01:42
Operator : DG Inst ID: LC12.i
Smp Info : CCV3 09GCSV0429 NQ 100ng/mL;2
Misc Info : ;3;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 16-Mar-2010 02:00 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

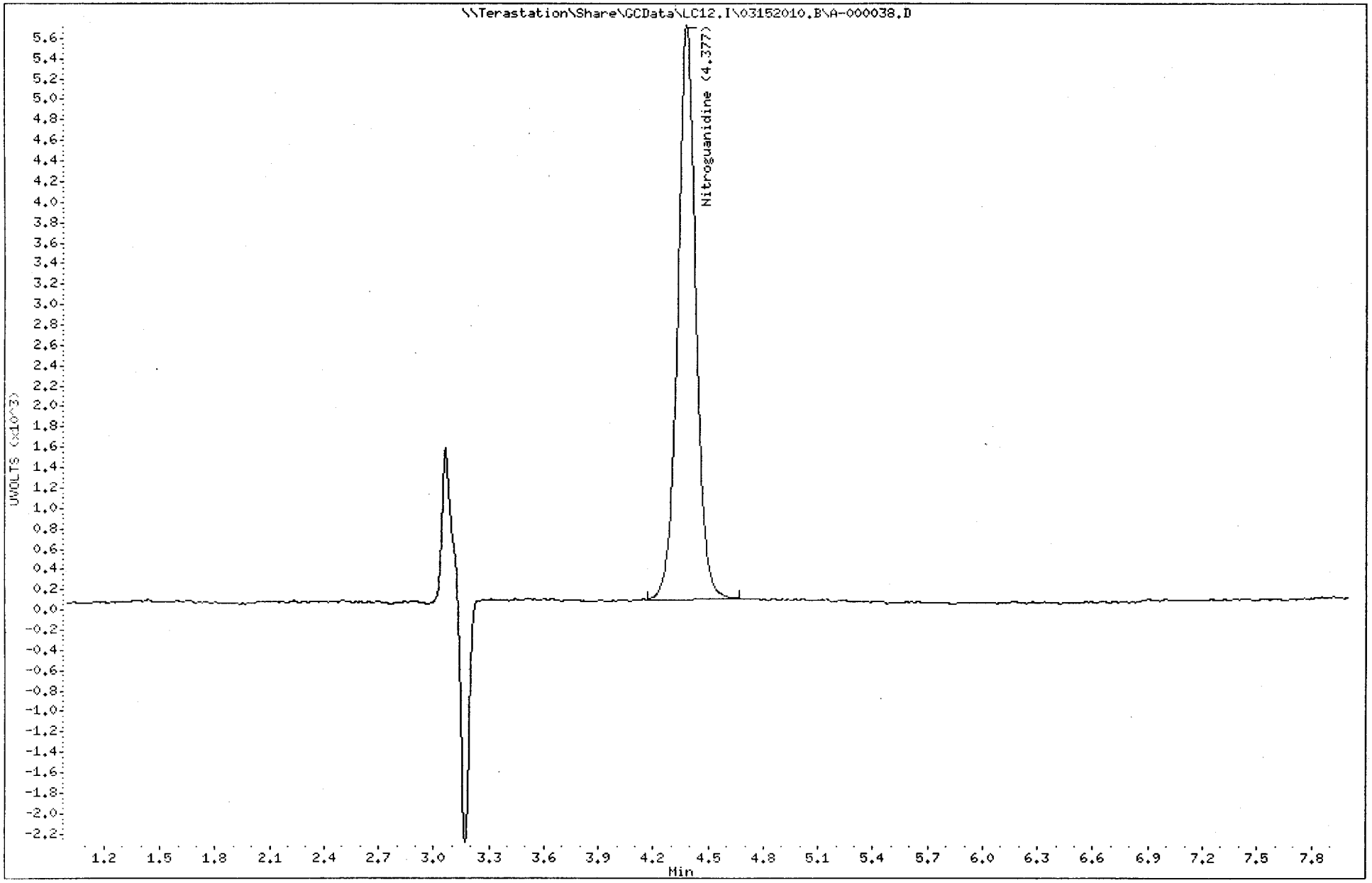
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.061	464	111	0.239	1.195	
4.377	38366	5628	0.147	98.805	20 Nitroguanidine
	38830	5739		100.000	

Total unknown % area = 1.195

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000038.D
Date : 16-MAR-2010 01:42
Client ID:
Sample Info: CCV3 09GCSV0429 NQ 100ng/mL;2

Instrument: LC12.i
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



TestAmerica West Sacramento

A-000044.D

Chromatography Summary

Injection Date: 3/16/2010 3:29 **Operator:** DG

DataFile: LC12.I\03152010.B\A-000044.D **Vial Num:** 75

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LWFWA1AAB G0C090000-MB 0068274**

Method File: LC12.I\03152010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ.sub **SpikeList:**

Samp. Info: LWFWA1AAB G0C090000-MB 0068274;0

Misc. Info: ;;;2.00;10;2;NQ.sub;;0;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-265~~ NA

Compound Name	RT	Diff	Response	Conc (ug/Kg)	Flag	RT	Diff	Response	Conc (ug/Kg)	Flag	MDL	RL	Flag
Nitroguanidine				ND							7.5000	250.00	

VH 3-16-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

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TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000044.D
Lab Smp Id: LWFWA1AAB G0C090000
Inj Date : 16-MAR-2010 03:29
Operator : DG Inst ID: LC12.i
Smp Info : LWFWA1AAB G0C090000-MB 0068274;0
Misc Info : ;;;2.00;10;2;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 16-Mar-2010 02:00 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 75
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.067	410	98	0.239	60.928	
3.717	263	35	0.133	39.072	
	673	133		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000044.D

Date : 16-MAR-2010 03:29

Client ID:

Instrument: LC12.i

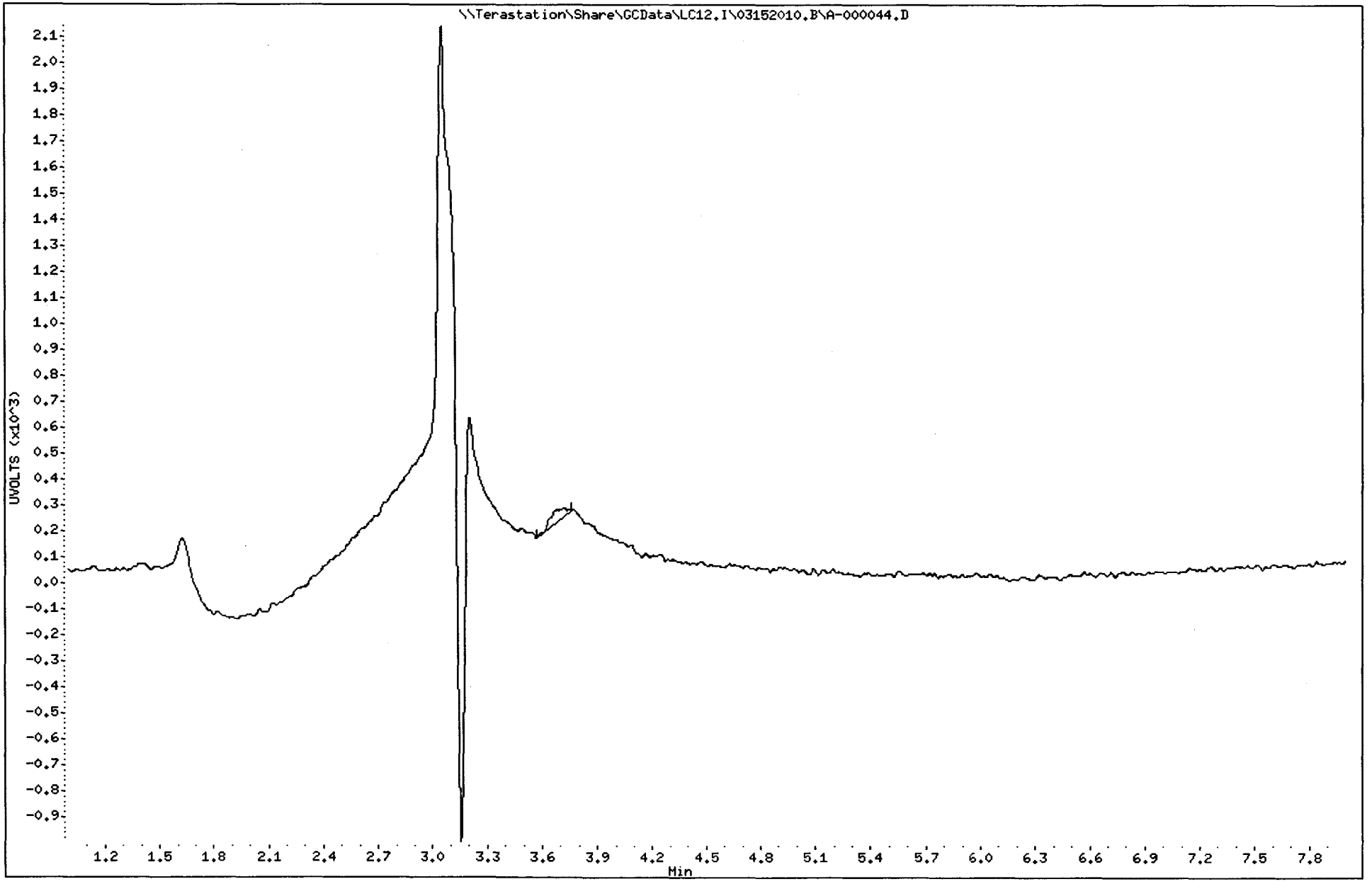
Sample Info: LWFWA1AAB G0C090000-MB 0068274;0

Volume Injected (uL): 50.0

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000045.D

Chromatography Summary

Injection Date: 3/16/2010 3:47 **Operator:** DG

DataFile: LC12.I\03152010.B\A-000045.D **Vial Num:** 76

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LWFWA1ACC G0C090000-LCS 0068274**

Method File: LC12.I\03152010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ.sub **SpikeList:** SOLIDNQ.spk

Samp. Info: LWFWA1ACC G0C090000-LCS 0068274;3

Misc. Info: LCS;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.35	75616	967.7000<	1000	97%	Fails OK	M				~~1000~~	~~0%~~	~~Fails~~	NA	(0-0)	45

= 0.09677 ppm

0.9677 ppm 3/18/2010 new

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50% Signals Differ by More Than 40%
- Signals Differ by More Than 50%

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

Pk not identified

DL 3-16-10

Printed: 3/16/2010 16:54

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03152010.B\A-000045.d
Lab Smp Id: LWFWA1ACC G0C090000
Inj Date : 16-MAR-2010 03:47
Operator : DG Inst ID: LC12.i
Smp Info : LWFWA1ACC G0C090000-LCS 0068274;3
Misc Info : LCS;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03152010.B\8330NQAB.M
Meth Date : 16-Mar-2010 16:17 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 76 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

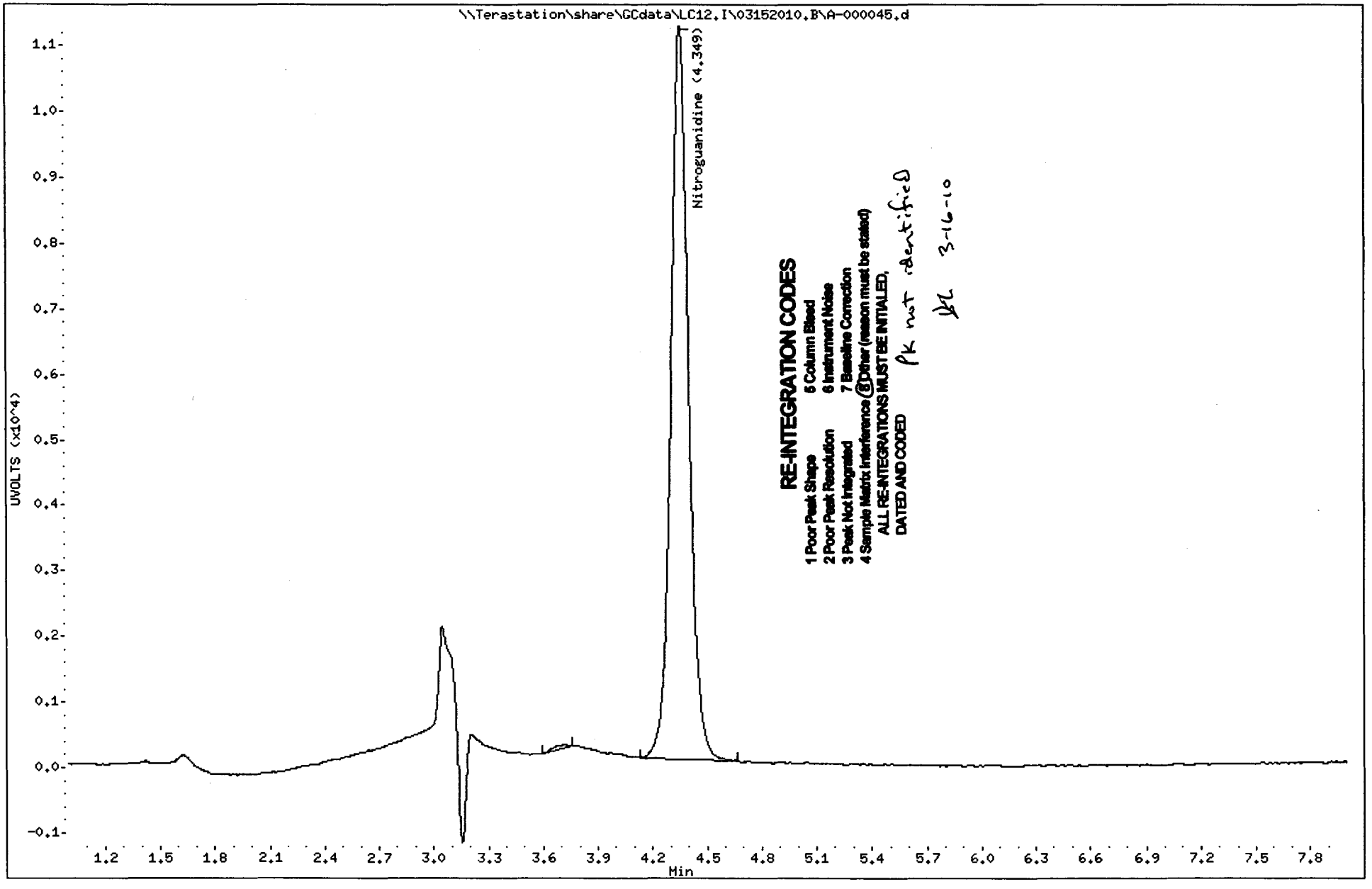
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.069	228	69	0.302	0.299	
3.716	339	50	0.148	0.444	
4.349	75616	11156	0.148	99.257	20 Nitroguanidine
	76183	11275		100.000	

Total unknown % area = 0.7430

Data File: \\Terastation\share\GCdata\LC12.I\03152010.B\A-000045.d
Date : 16-MAR-2010 03:47
Client ID:
Sample Info: LWFWA1ACC G0C090000-LCS 0068274;3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.i
Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000045.D

Chromatography Summary

Injection Date: 3/16/2010 3:47 **Operator:** DG

DataFile: LC12.I\03152010.B\A-000045.D **Vial Num:** 76

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LWFWA1ACC G0C090000-LCS 0068274**

Method File: LC12.I\03152010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ.sub **SpikeList:** SOLIDNQ.spk

Samp. Info: LWFWA1ACC G0C090000-LCS 0068274;3

Misc. Info: LCS;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1

Signal 1 UV ~~250-265~~ 263

Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine				**1000**	**0%**	**Fails**					**1000**	**0%**	**Fails**		**(0-0)**	

Notes:

M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

See reintegration.

DEG 3-16-10

Printed: 3/16/2010 15:40

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000045.D
Lab Smp Id: LWFWA1ACC G0C090000
Inj Date : 16-MAR-2010 03:47
Operator : DG Inst ID: LC12.i
Smp Info : LWFWA1ACC G0C090000-LCS 0068274;3
Misc Info : LCS;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 16-Mar-2010 02:00 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 76 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

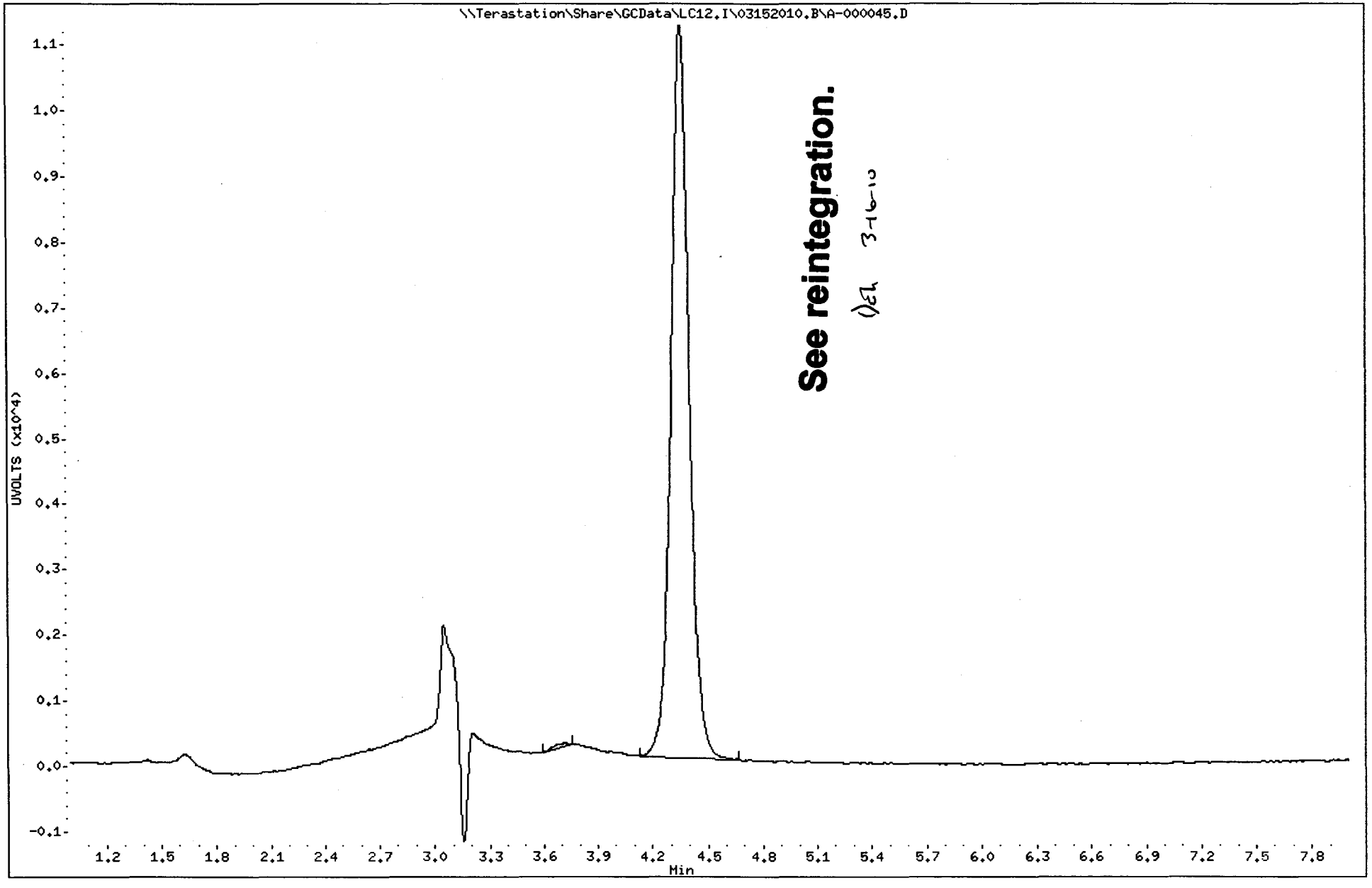
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.069	228	69	0.302	0.299	
3.716	339	50	0.148	0.444	
4.349	75616	11156	0.148	99.257	
	76183	11275		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000045.D
Date : 16-MAR-2010 03:47
Client ID:
Instrument: LC12.i
Sample Info: LWFWA1ACC GOC090000-LCS 0068274;3
Volume Injected (uL): 50.0
Operator: DG
Column phase: Luna 5u Amino
Column diameter: 4.60



See reintegration.
DEL 3-16-10

1505

North Canton

TestAmerica West Sacramento

A-000046.D

Chromatography Summary

Injection Date: 3/16/2010 4:05 **Operator:** DG

DataFile: LC12.I\03152010.B\A-000046.D **Vial Num:** 77

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **LWCWJ1A9 A0C050520-2 0068274**

Method File: LC12.I\03152010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ.sub **SpikeList:**

Samp. Info: LWCWJ1A9 A0C050520-2 0068274;0

Misc. Info: ;;;2.00;10;2;NQ.sub;;0;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 350-265~~ NA

Compound Name	RT	Diff	Response	Conc (ug/Kg)	Flag	RT	Diff	Response	Conc (ug/Kg)	Flag	MDL	RL	Flag
Nitroguanidine				ND ✓							7.5000	250.00	

DL 3-16-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40% Signals Differ by More Than 40%
- 5 = Columns Differ by More Than 50% Signals Differ by More Than 50%

Printed: 3/16/2010 15:40

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000046.D
Lab Smp Id: LWCWJ1A9 A0C050520-
Inj Date : 16-MAR-2010 04:05
Operator : DG Inst ID: LC12.i
Smp Info : LWCWJ1A9 A0C050520-2 0068274;0
Misc Info : ;;;2.00;10;2;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 16-Mar-2010 02:00 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 77
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

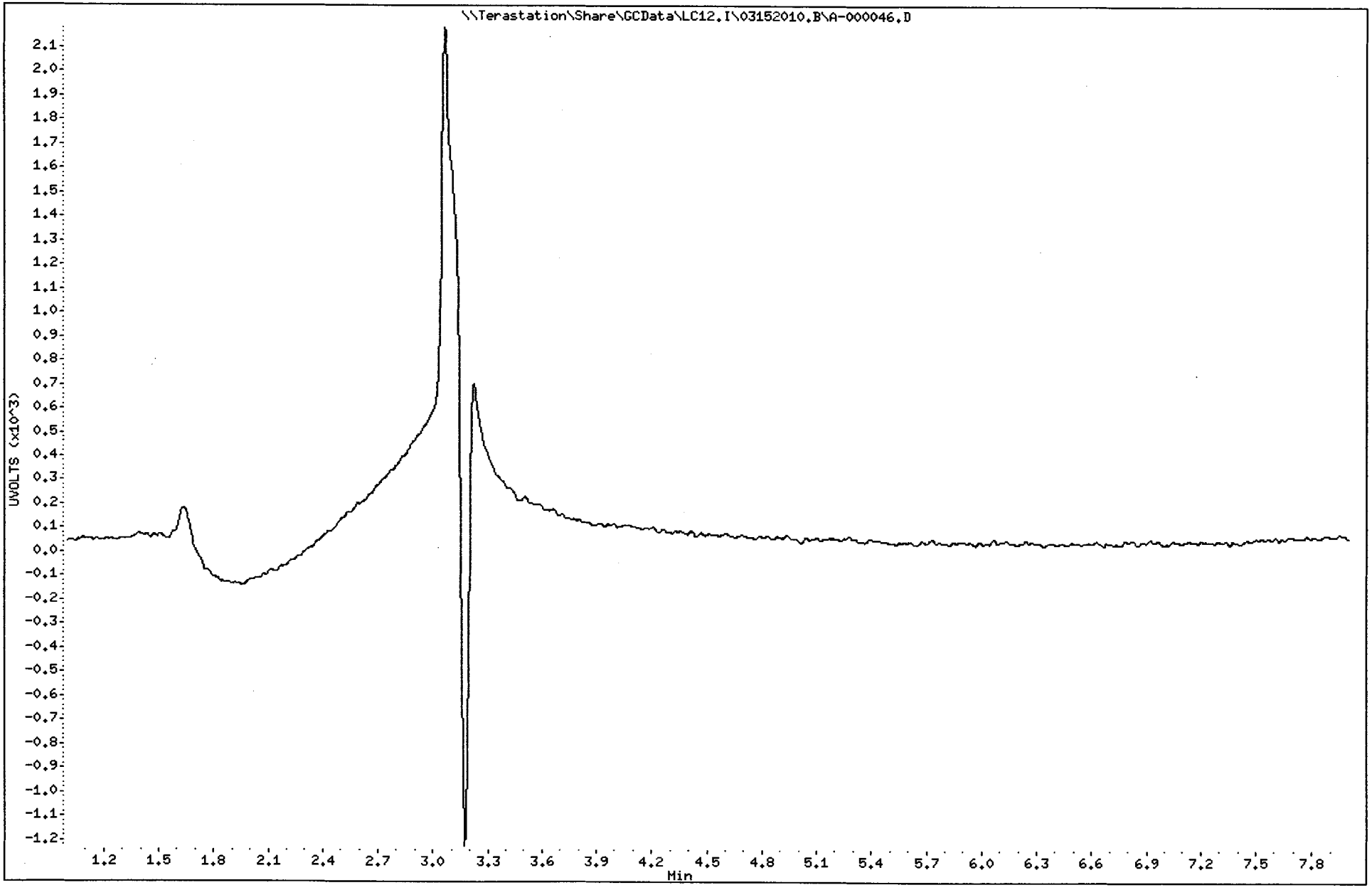
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.066	292	91	0.312	100.000	
	292	91		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000046.D
Date : 16-MAR-2010 04:05
Client ID:
Sample Info: LWCWJ1A9 A0C050520-2 0068274;0
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.i
Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000047.D

Chromatography Summary

Injection Date: 3/16/2010 4:23 **Operator:** DG

DataFile: LC12.I\03152010.B\A-000047.D **Vial Num:** 77

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **LWCWJ1CJS A0C050520-2MS 0068274**

Method File: LC12.I\03152010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ.sub **SpikeList:** SOLIDNQ.spk

Samp. Info: LWCWJ1CJS A0C050520-2MS 0068274;3

Misc. Info: MS;;;2.04;10;2;NQ.sub;SOLIDNQ.spk;1;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine				980.392157	0%	Fails ✓					980.392157	0%	Fails		(0-0)	

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40% Signals Differ by More Than 40%
- 5 = Columns Differ by More Than 50% Signals Differ by More Than 50%

Wrong vial location
Dam not used
See Reanalysis
JK 3-16-10

Printed: 3/16/2010 15:40

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000047.D
Lab Smp Id: LWCWJ1CJS A0C050520
Inj Date : 16-MAR-2010 04:23
Operator : DG Inst ID: LC12.i
Smp Info : LWCWJ1CJS A0C050520-2MS 0068274;3
Misc Info : MS;;;2.04;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 16-Mar-2010 02:00 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 77 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

wrong location DL 3-16-10

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

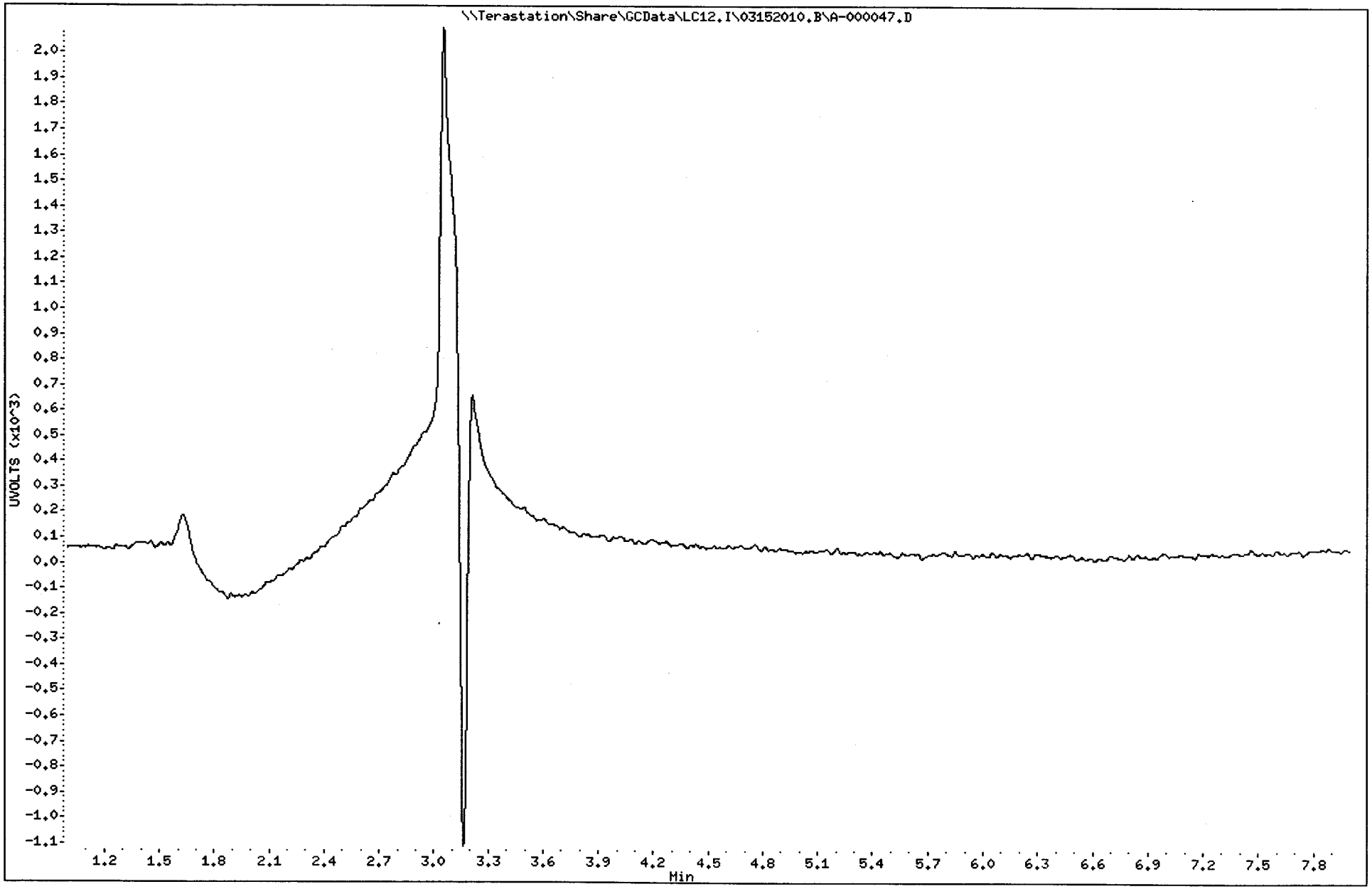
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.040	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.060	234	85	0.364	100.000	
	234	85		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000047.D
Date : 16-MAR-2010 04:23
Client ID:
Sample Info: LWCWJ1CJS A0C050520-2MS 0068274;3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.i
Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000048.D

Chromatography Summary

Injection Date: 3/16/2010 4:41 **Operator:** DG

DataFile: LC12.I\03152010.B\A-000048.D **Vial Num:** 77

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **LWCWJ1CKD A0C050520-2SD 0068274**

Method File: LC12.I\03152010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ.sub **SpikeList:** SOLIDNQ.spk

Samp. Info: LWCWJ1CKD A0C050520-2SD 0068274;3

Misc. Info: MSD;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-265~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine				**1000**	**0%**	**Fails** ✓					**1000**	**0%**	**Fails**		(0-0)	

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Wrong vial location
Data not used
See Reanalysis
DH 3-16-10

Printed: 3/16/2010 15:41

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000048.D
Lab Smp Id: LWCWJ1CKD A0C050520
Inj Date : 16-MAR-2010 04:41
Operator : DG Inst ID: LC12.i
Smp Info : LWCWJ1CKD A0C050520-2SD 0068274;3
Misc Info : MSD;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 16-Mar-2010 02:00 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 77 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Wrong Location 3-16-10 DH

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

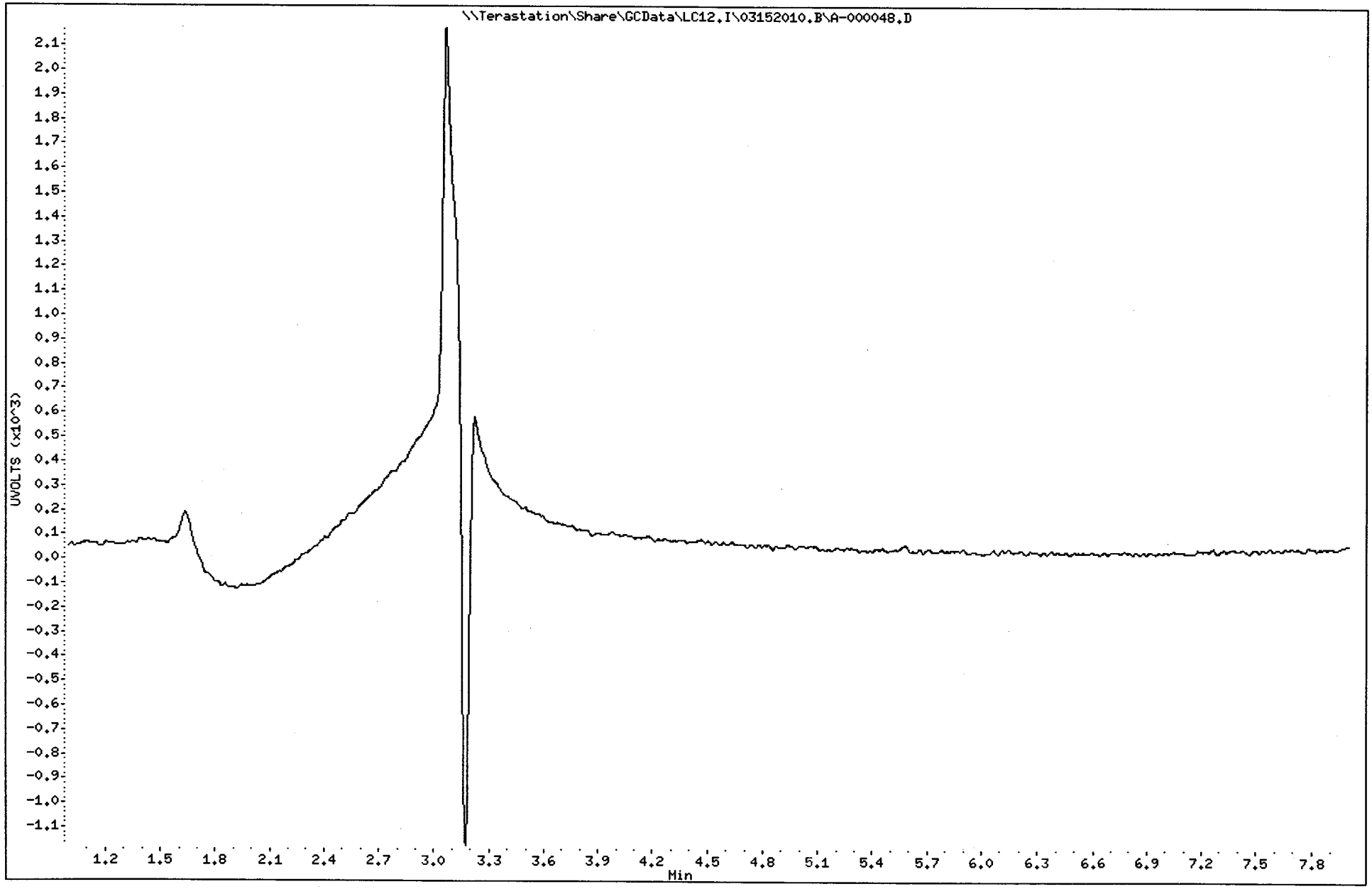
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.067	587	118	0.201	100.000	
	587	118		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000048.D
Date : 16-MAR-2010 04:41
Client ID:
Sample Info: LWCWJ1CKD A0C050520-2SD 0068274;3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.i
Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000049.D

Chromatography Summary

Injection Date: 3/16/2010 4:59 **Operator:** DG

DataFile: LC12.I\03152010.B\A-000049.D **Vial Num:** 13

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **CCV3 09GCSV0429 NQ 100ng/mL**

Method File: LC12.I\03152010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CCV3 09GCSV0429 NQ 100ng/mL;2

Misc. Info: ;3;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250 265~~ 263 Signal 2 ~~UV 358 205~~ NA

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.37	38480	98.4900<	100	-2%	Acceptable					~~100~~	~~100%~~	~~Fails~~ NA		(±15)	45

Notes:

M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

CCV in cntnl
3-16-10

Printed: 3/16/2010 15:41

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000049.D
Lab Smp Id: CCV3 09GCSV0429 NQ
Inj Date : 16-MAR-2010 04:59
Operator : DG Inst ID: LC12.i
Smp Info : CCV3 09GCSV0429 NQ 100ng/mL;2
Misc Info : ;3;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 16-Mar-2010 05:16 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

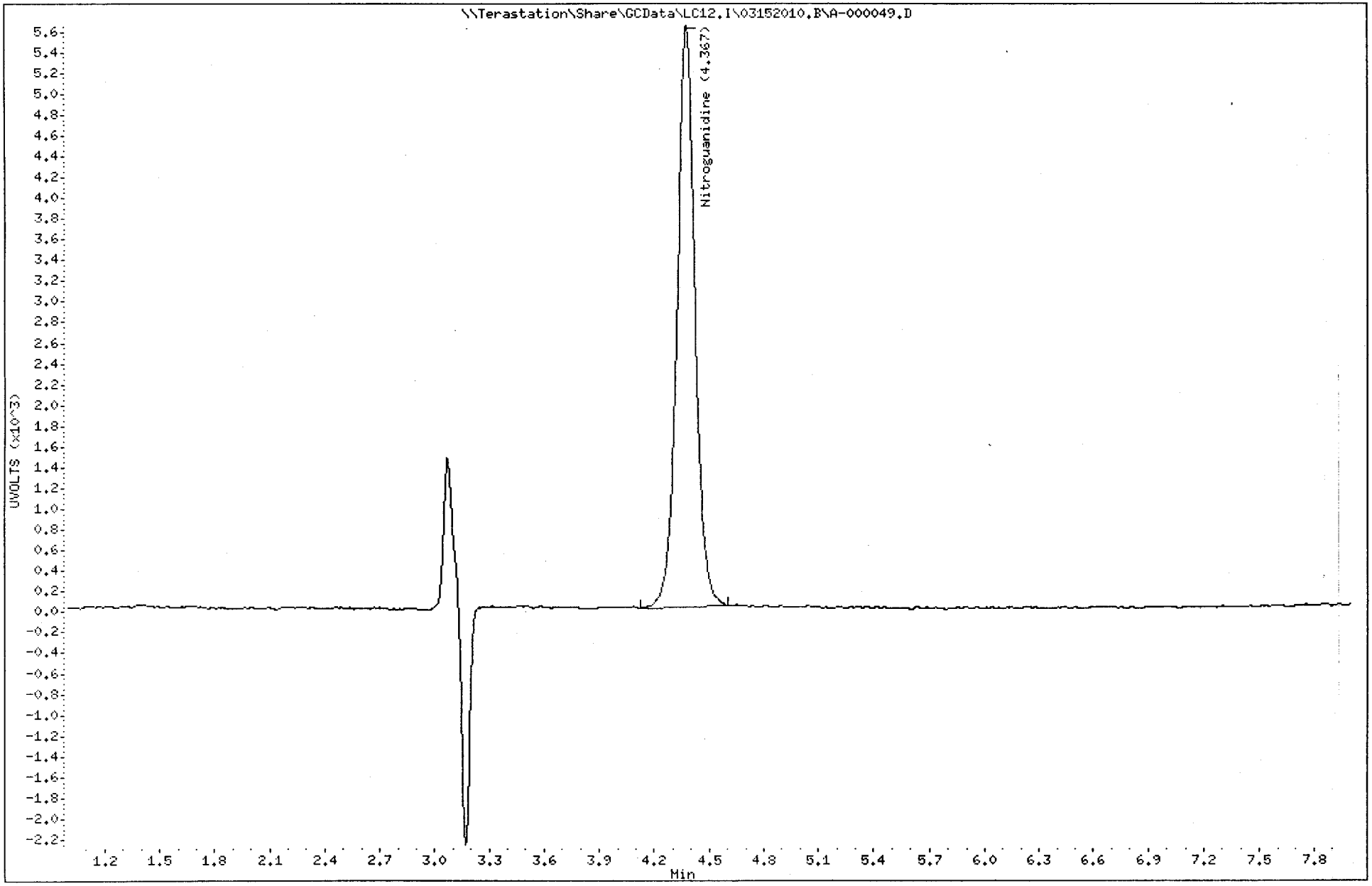
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.074	499	116	0.232	1.280	
4.367	38481	5614	0.146	98.720	20 Nitroguanidine
	38980	5730		100.000	

Total unknown % area = 1.280

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000049.D
Date : 16-MAR-2010 04:59
Client ID:
Sample Info: CCV3 09GCSV0429 NQ 100ng/mL;2

Instrument: LC12.i
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



TestAmerica West Sacramento

A-000050.D

Chromatography Summary

Injection Date: 3/16/2010 5:17 **Operator:** DG

DataFile: LC12.I\03152010.B\A-000050.D **Vial Num:** 1

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **Water blank**

Method File: LC12.I\03152010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: Water blank;0

Misc. Info: ;;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ UV NA

Compound Name	RT	Diff	Response	PPB	Flag	RT	Diff	Response	PPB	Flag	MDL	RL	Flag
Nitroguanidine				ND							0.0000	0.00	

DEL 3-16-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed: 3/16/2010 15:41

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000050.D
Lab Smp Id: Water blank
Inj Date : 16-MAR-2010 05:17
Operator : DG Inst ID: LC12.i
Smp Info : Water blank;0
Misc Info : ;;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 16-Mar-2010 05:16 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

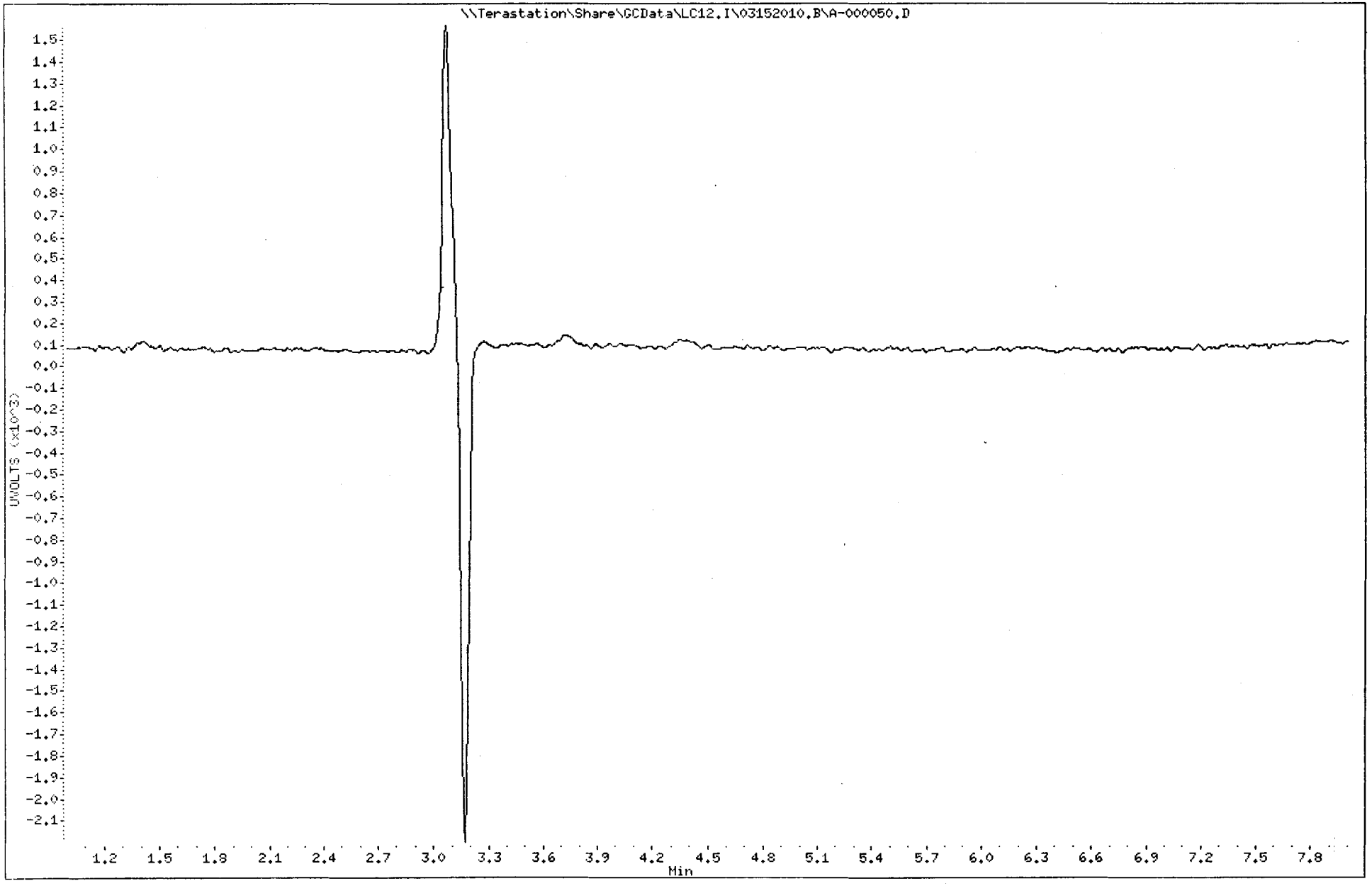
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.069	524	119	0.227	100.000	
	524	119		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000050.D
Date : 16-MAR-2010 05:17
Client ID:
Sample Info: Water blank;0

Instrument: LC12.i
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# 44

Inst ID: LC12 Batch ID: 03162010
Method : Method 8330 Nitroguanidine Test : SOP WS-LC-0010
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
16-MAR-2010	13:19	DG	Primer 1000	A-000001.	0 g	0 mL	1	
16-MAR-2010	13:37	DG	Primer 1000	A-000002.	0 g	0 mL	1	
16-MAR-2010	13:55	DG	Primer 1000	A-000003.	0 g	0 mL	1	
16-MAR-2010	14:12	DG	Primer 1000	A-000004.	0 g	0 mL	1	
16-MAR-2010	14:30	DG	Water blank	A-000005.	0 g	0 mL	1	
16-MAR-2010	14:48	DG	CCV4 09GCSV0430 NQ 200ng/mL	A-000006.	0 g	0 mL	1	NOT USED
16-MAR-2010	15:06	DG	LWCWJ1CJS A0C050520-2MS 006827	A-000007.	2.04 g	10 mL	1	Column overpressurized
16-MAR-2010	15:24	DG	LWCWJ1CKD A0C050520-2SD 006827	A-000008.	2 g	10 mL	1	Replace guard. Restart sequence DEL 3-17-10
16-MAR-2010	19:28	DG	Primer 1000	A-000011.	0 g	0 mL	1	
16-MAR-2010	19:46	DG	Primer 1000	A-000012.	0 g	0 mL	1	
16-MAR-2010	20:03	DG	Primer 1000	A-000013.	0 g	0 mL	1	
16-MAR-2010	20:21	DG	Primer 1000	A-000014.	0 g	0 mL	1	
16-MAR-2010	20:39	DG	[illegible]	A-000015.	0 g	0 mL	1	
16-MAR-2010	20:57	DG	[illegible]	A-000016.	0 g	0 mL	1	
16-MAR-2010	21:15	DG	[illegible]	A-000017.	2.04 g	10 mL	1	
16-MAR-2010	21:33	DG	[illegible]	A-000018.	2 g	10 mL	1	
16-MAR-2010	21:50	DG	LWM7T1AAB G0C150000-MB 0074327	A-000019.	2 g	10 mL	1	
16-MAR-2010	22:08	DG	LWM7T1ACC G0C150000-LCS 007432	A-000020.	2 g	10 mL	1	
16-MAR-2010	22:26	DG	LWAGP1A9 A0C040514-6 0074327	A-000021.	2.01 g	10 mL	1	
16-MAR-2010	22:44	DG	LWAGR1AL A0C040514-7 0074327	A-000022.	2.03 g	10 mL	1	
16-MAR-2010	23:02	DG	LWAHF1A8 A0C040514-20 007432	A-000023.	2.02 g	10 mL	1	
16-MAR-2010	23:20	DG	LWAHM1AK A0C040514-25 007432	A-000024.	2 g	10 mL	1	
16-MAR-2010	23:38	DG	[illegible]	A-000025.	0 g	0 mL	1	
16-MAR-2010	23:56	DG	LWHDN1AD A0C100520-1 0074327	A-000026.	2.03 g	10 mL	1	
17-MAR-2010	00:13	DG	LWHDN1AHS A0C100520-1MS 00743	A-000027.	2 g	10 mL	1	
17-MAR-2010	00:31	DG	LWHDN1AJD A0C100520-1SD 0074	A-000028.	2 g	10 mL	1	
17-MAR-2010	00:49	DG	LWJ2F1AD A0C120537-3 0074327	A-000029.	2.01 g	10 mL	1	
17-MAR-2010	01:07	DG	LWLNN1AD A0C120576-1 0074327	A-000030.	1.99 g	10 mL	1	
17-MAR-2010	01:25	DG	CCV3 09GCSV0429 NQ 100ng/mL	A-000031.	0 g	0 mL	1	
17-MAR-2010	01:43	DG	LWLD41AAB G0C120000-MB 0071234	A-000032.	2 g	10 mL	1	
17-MAR-2010	02:01	DG	LWLD41ACC G0C120000-LCS 007123	A-000033.	2 g	10 mL	1	
17-MAR-2010	02:19	DG	LV9DA1A9 A0C030547-1 0071234	A-000034.	2.01 g	10 mL	1	
17-MAR-2010	02:37	DG	LV9DA1CNS A0C030547-1MS 00712	A-000035.	2 g	10 mL	1	Recovery Low.
17-MAR-2010	02:54	DG	LV9DA1CPD A0C030547-1SD 007123	A-000036.	2.02 g	10 mL	1	Recovery Low.
17-MAR-2010	03:12	DG	LV9DF1AL A0C030547-2 0071234	A-000037.	1.99 g	10 mL	1	
17-MAR-2010	03:30	DG	LV9EA1AL A0C030547-17 0071234	A-000038.	2.02 g	10 mL	1	
17-MAR-2010	03:48	DG	LV9EH1AL A0C030547-23 0071234	A-000039.	2.03 g	10 mL	1	
17-MAR-2010	04:06	DG	LV9EJ1AL A0C030547-24 0071234	A-000040.	2 g	10 mL	1	
17-MAR-2010	04:24	DG	CCV4 09GCSV0430 NQ 200ng/mL	A-000041.	0 g	0 mL	1	
17-MAR-2010	04:42	DG	Water blank	A-000042.	0 g	0 mL	1	

TestAmerica West Sacramento

A-000015.D

Chromatography Summary

Injection Date: 3/16/2010 20:39 **Operator:** DG

DataFile: LC12.I\03162010.B\A-000015.D **Vial Num:** 1

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **Water blank**

Method File: LC12.I\03162010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: Water blank;0

Misc. Info: ;;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 258-205~~ NA

Compound Name	RT	Diff	Response	PPB	Flag	RT	Diff	Response	PPB	Flag	MDL	RL	Flag
Nitroguanidine			ND								0.0000	0.00	

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

DEL 3-16-10

Printed: 3/16/2010 21:35

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03162010.B\A-000015.D
Lab Smp Id: Water blank
Inj Date : 16-MAR-2010 20:39
Operator : DG Inst ID: LC12.i
Smp Info : Water blank;0
Misc Info : ;;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03162010.B\8330NQAB.m
Meth Date : 16-Mar-2010 17:14 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

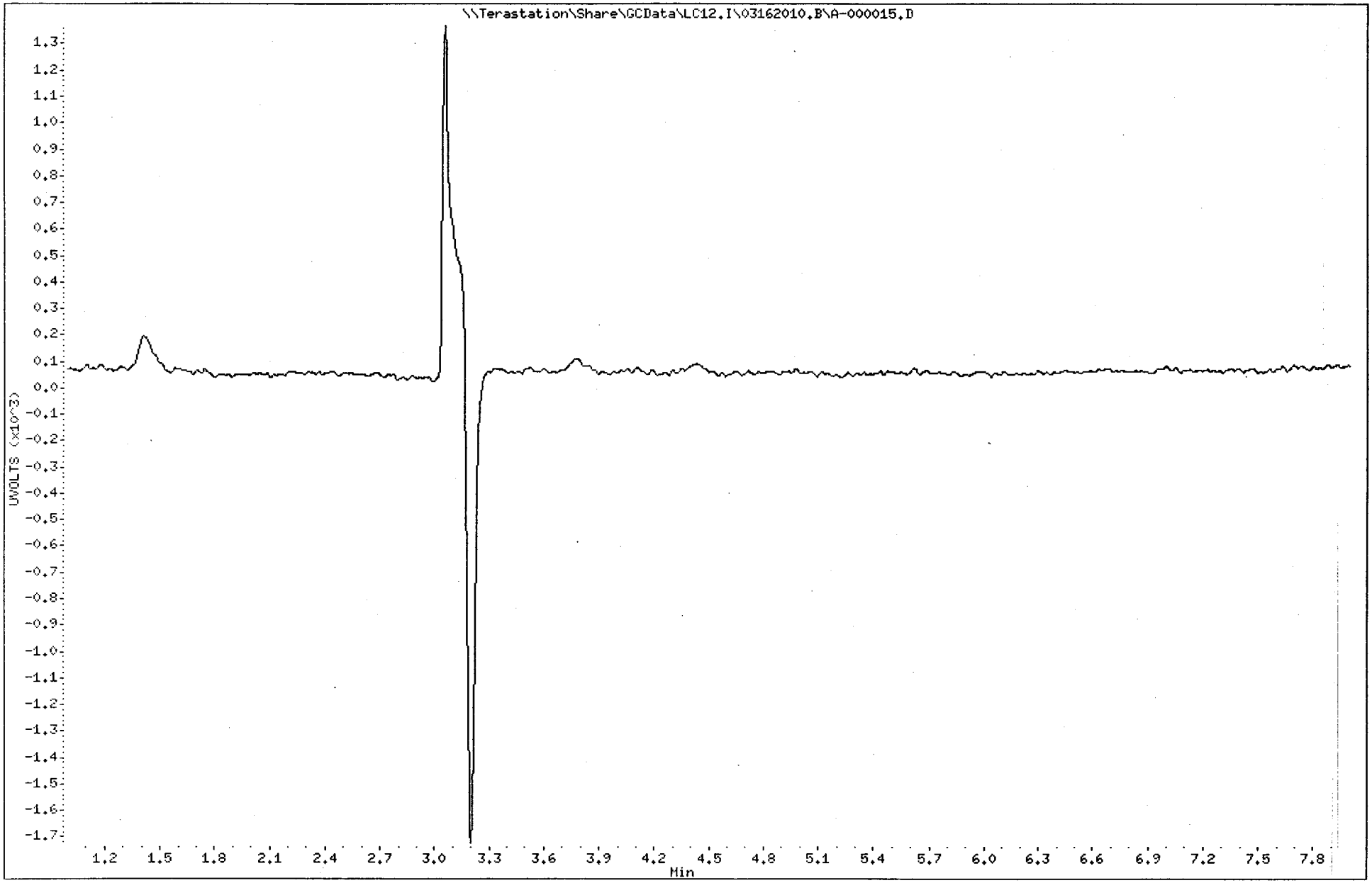
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.058	335	83	0.248	100.000	
	335	83		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03162010.B\A-000015.D
Date : 16-MAR-2010 20:39
Client ID:
Sample Info: Water blank;0

Instrument: LC12.i
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



TestAmerica West Sacramento

A-000016.D

Chromatography Summary

Injection Date: 3/16/2010 20:57 **Operator:** DG

DataFile: LC12.I\03162010.B\A-000016.D **Vial Num:** 14

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **CCV4 09GCSV0430 NQ 200ng/mL**

Method File: LC12.I\03162010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CCV4 09GCSV0430 NQ 200ng/mL;2

Misc. Info: ;4;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250-265~~ 263

Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.41	77250	197.7000<	200	-1%	Acceptable ✓					~~200~~	~~-100%~~	~~Fails~~ NA		(±15)	45

CCV in control

DEL 3-16-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03162010.B\A-000016.D
Lab Smp Id: CCV4 09GCSV0430 NQ
Inj Date : 16-MAR-2010 20:57
Operator : DG Inst ID: LC12.i
Smp Info : CCV4 09GCSV0430 NQ 200ng/mL;2
Misc Info : ;4;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03162010.B\8330NQAB.m
Meth Date : 16-Mar-2010 21:14 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

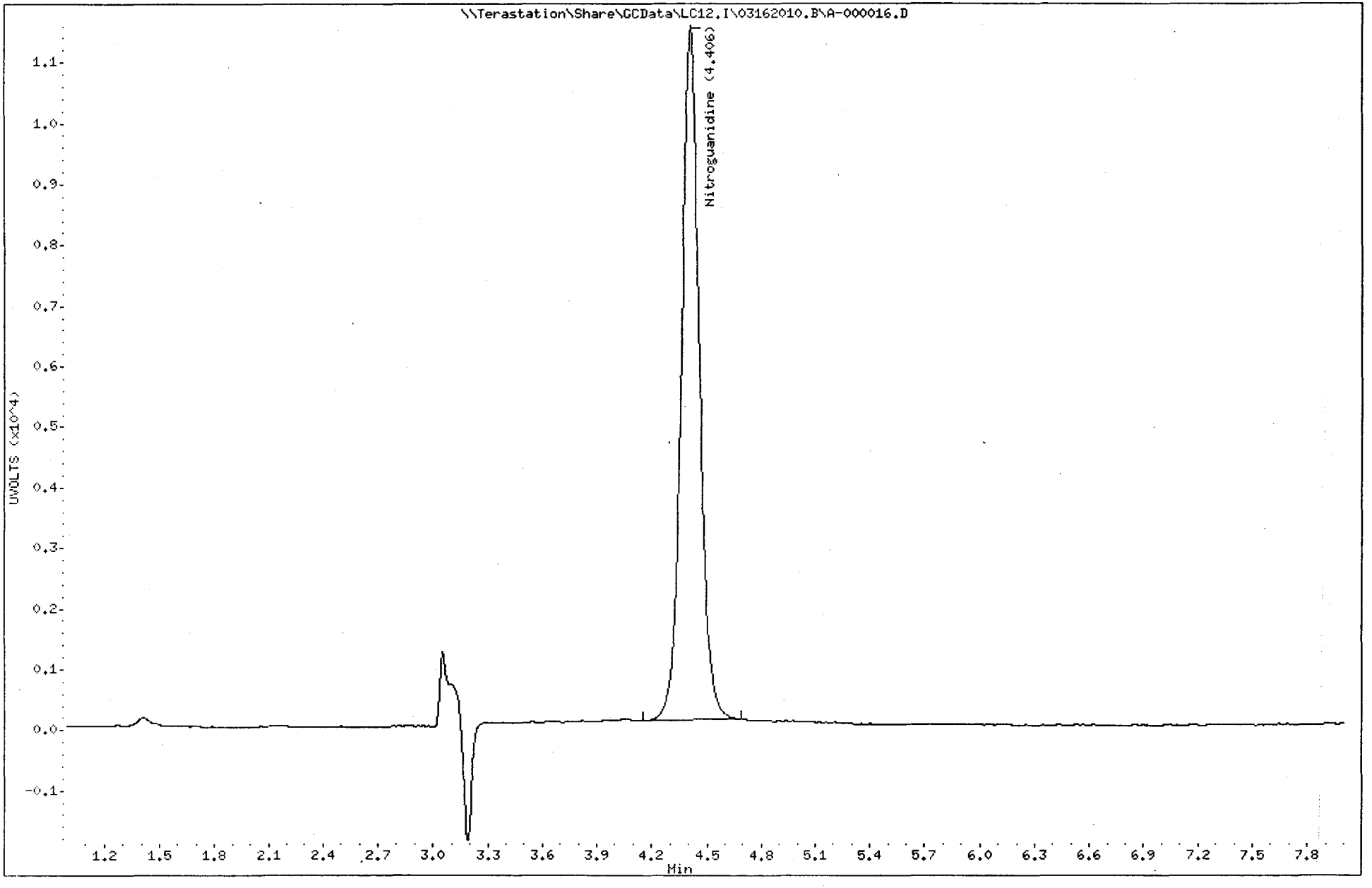
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.056	271	76	0.281	0.349	
4.406	77250	11441	0.148	99.651	20 Nitroguanidine
	77521	11517		100.000	

Total unknown % area = 0.3490

Data File: \\Terastation\Share\GCData\LC12.I\03162010.B\A-000016.D
Date : 16-MAR-2010 20:57
Client ID:
Sample Info: CCV4 09GCSV0430 NQ 200ng/mL;2

Instrument: LC12.i
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



TestAmerica West Sacramento

A-000017.D

Chromatography Summary

Injection Date: 3/16/2010 21:15 **Operator:** DG

DataFile: LC12.I\03162010.B\A-000017.D **Vial Num:** 78

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LWCWJ1CJS A0C050520-2MS 0068274**

Method File: LC12.I\03162010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ.sub **SpikeList:** SOLIDNQ.spk

Samp. Info: LWCWJ1CJS A0C050520-2MS 0068274;3

Misc. Info: MS;;;2.04;10;2;NQ.sub;SOLIDNQ.spk;1;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.41	77289 ✓	969.7000< ✓	980.392157	99%	~~Fails~~ OK	M				~~980.392157~~	0%	~~Fails~~ NA		(0-0)	45

= 0.96970 ppm

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50% Signals Differ by More Than 40%
- Signals Differ by More Than 50%

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

Peak not identified

DL 3-16-10

Printed: 3/16/2010 21:38

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03162010.B\A-000017.d
Lab Smp Id: LWCWJ1CJS A0C050520
Inj Date : 16-MAR-2010 21:15
Operator : DG Inst ID: LC12.i
Smp Info : LWCWJ1CJS A0C050520-2MS 0068274;3
Misc Info : MS;;;2.04;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03162010.B\8330NQAB.M
Meth Date : 16-Mar-2010 21:35 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 78 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

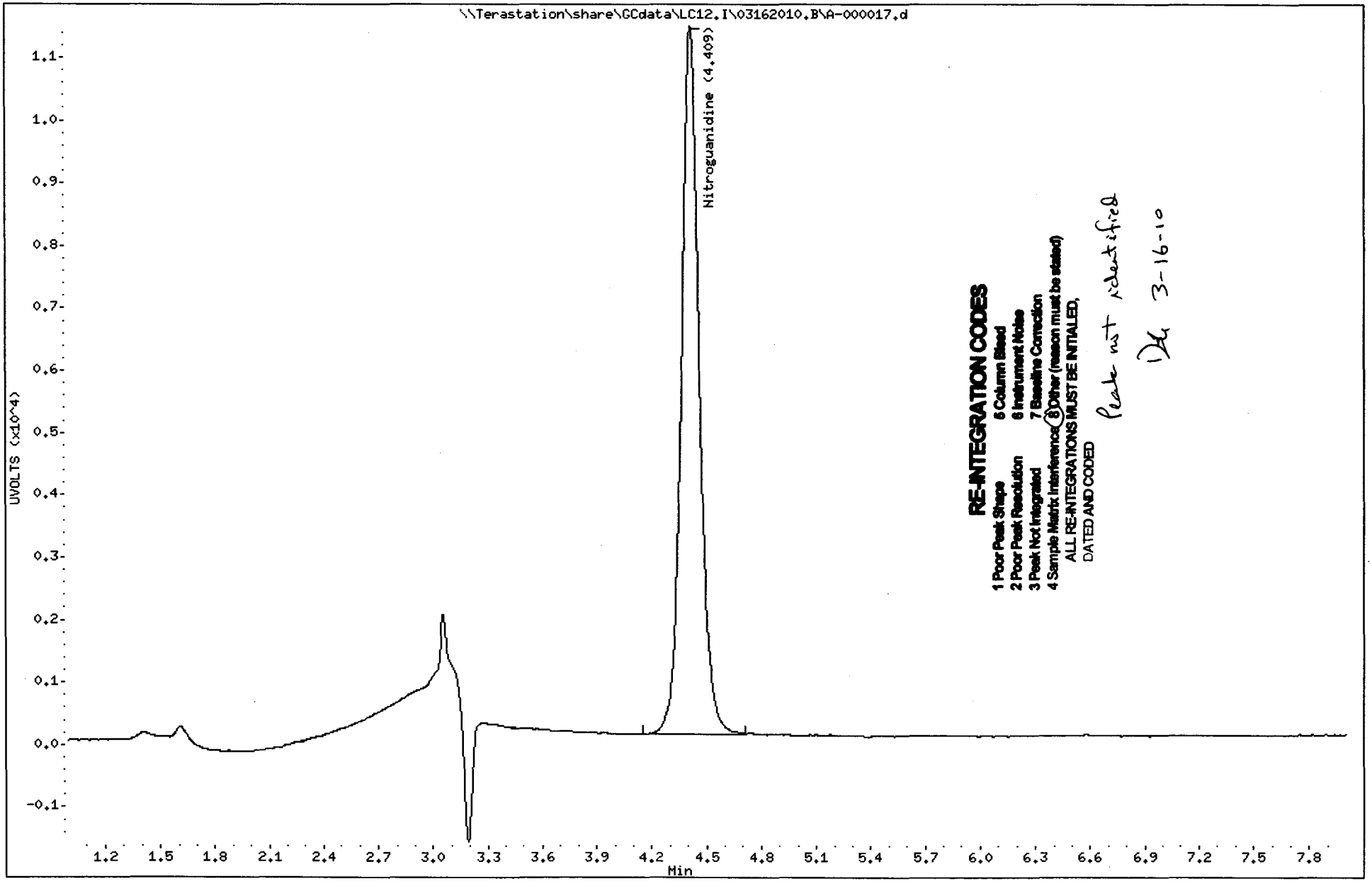
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.040	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.079	426	76	0.178	0.548	
4.409	77290	11331	0.147	99.452	20 Nitroguanidine
	77716	11407		100.000	

Total unknown % area = 0.5480

Data File: \\Terastation\share\GCdata\LC12.I\03162010.B\A-000017.d
Date : 16-MAR-2010 21:15
Client ID:
Sample Info: LWCWJ1CJS A0C050520-2MS 0068274;3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.i
Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000017.D

Chromatography Summary

Injection Date: 3/16/2010 21:15 **Operator:** DG

DataFile: LC12.I\03162010.B\A-000017.D **Vial Num:** 78

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LWCWJ1CJS A0C050520-2MS 0068274**

Method File: LC12.I\03162010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ.sub **SpikeList:** SOLIDNQ.spk

Samp. Info: LWCWJ1CJS A0C050520-2MS 0068274;3

Misc. Info: MS;;;2.04;10;2;NQ.sub;SOLIDNQ.spk;1;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-265~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine				980.392157	0%	Fails					~~980.392157~~	~~0%~~	~~Fails~~ NA		(0-0)	

See reintegration. DL 3-16-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed: 3/16/2010 21:36

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03162010.B\A-000017.D
Lab Smp Id: LWCWJ1CJS A0C050520
Inj Date : 16-MAR-2010 21:15
Operator : DG Inst ID: LC12.i
Smp Info : LWCWJ1CJS A0C050520-2MS 0068274;3
Misc Info : MS;;;2.04;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03162010.B\8330NQAB.m
Meth Date : 16-Mar-2010 21:14 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 78 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

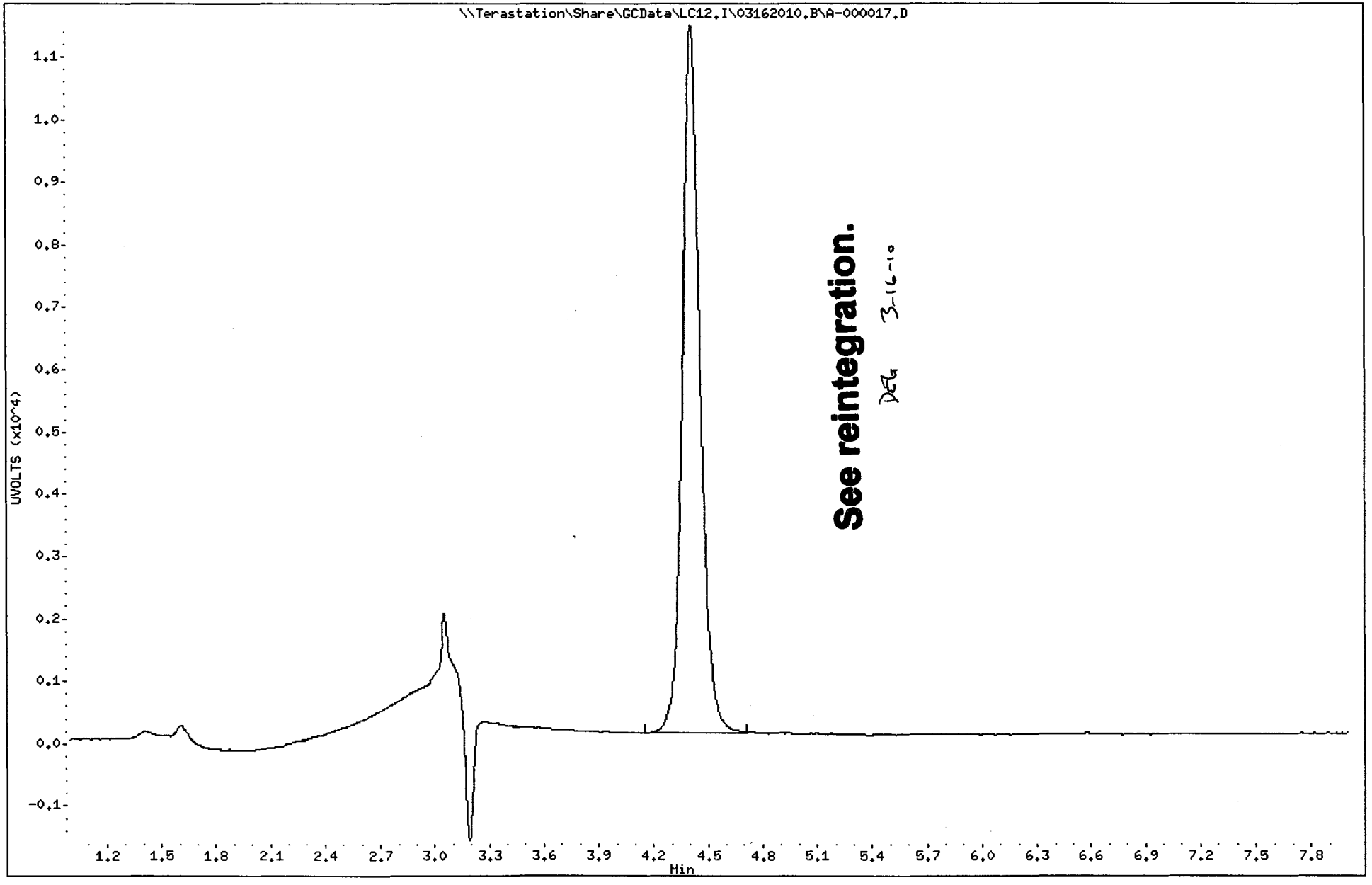
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.040	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.079	426	76	0.178	0.548	
4.409	77290	11331	0.147	99.452	
	77716	11407		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03162010.B\A-000017.D
Date : 16-MAR-2010 21:15
Client ID:
Sample Info: LWCWJ1CJS A0C050520-2MS 0068274;3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.i
Operator: DG
Column diameter: 4.60



1533

North Canton

TestAmerica West Sacramento

A-000018.D

Chromatography Summary

Injection Date: 3/16/2010 21:33 **Operator:** DG

DataFile: LC12.I\03162010.B\A-000018.D **Vial Num:** 79

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LWCWJ1CKD A0C050520-2SD 0068274**

Method File: LC12.I\03162010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ.sub **SpikeList:** SOLIDNQ.spk

Samp. Info: LWCWJ1CKD A0C050520-2SD 0068274;3

Misc. Info: MSD;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1

Signal 1 UV ~~250,265~~ 263 Signal 2 ~~UV 258,205~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.42	76898 ✓	984.1000< ✓	1000	98%	~~Fails~~ OK	M				~~1000~~	~~0%~~	~~Fails~~	NA	(0-0)	45

= 0.98410 ppm DL 3-17-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40% Signals Differ by More Than 40%
- 5 = Columns Differ by More Than 50% Signals Differ by More Than 50%

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

Peak not identified

DL 3-17-10

Printed: 3/17/2010 14:12

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03162010.B\A-000018.d
Lab Smp Id: LWCWJ1CKD A0C050520
Inj Date : 16-MAR-2010 21:33
Operator : DG Inst ID: LC12.i
Smp Info : LWCWJ1CKD A0C050520-2SD 0068274;3
Misc Info : MSD;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03162010.B\8330NQAB.M
Meth Date : 17-Mar-2010 14:10 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 79 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.059	354	86	0.243	0.458	
4.416	76898	11324	0.147	99.542	20 Nitroguanidine
	77253	11410		100.000	

Total unknown % area = 0.4580

Data File: \\Terastation\share\GCdata\LC12.I\03162010.B\A-000018.d

Page 2

Date : 16-MAR-2010 21:33

Client ID:

Instrument: LC12.i

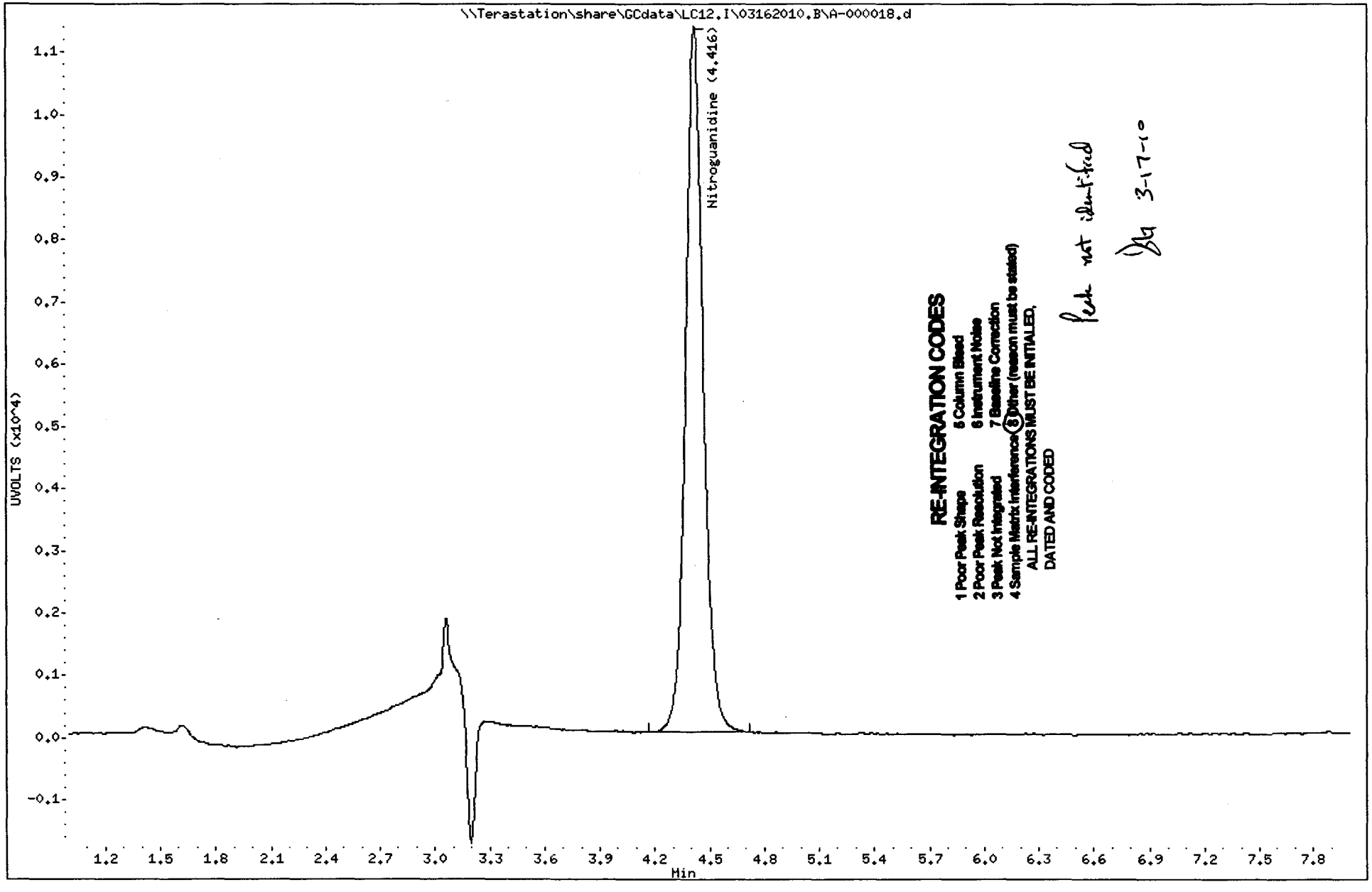
Sample Info: LWCWJ1CKD A0C050520-2SD 0068274;3

Volume Injected (uL): 50.0

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000018.D

Chromatography Summary

Injection Date: 3/16/2010 21:33 **Operator:** DG

DataFile: LC12.I\03162010.B\A-000018.D **Vial Num:** 79

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LWCWJ1CKD A0C050520-2SD 0068274**

Method File: LC12.I\03162010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ.sub **SpikeList:** SOLIDNQ.spk

Samp. Info: LWCWJ1CKD A0C050520-2SD 0068274;3

Misc. Info: MSD;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1

	Signal 1 UV 250-265							Signal 2 UV 358-205								
Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine				1000	0%	Fails					1000	0%	Fails		(0-0)	

See reintegration.

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50% Signals Differ by More Than 40%
- Signals Differ by More Than 50%

3-17-10

Printed: 3/17/2010 14:09

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03162010.B\A-000018.D
Lab Smp Id: LWCWJ1CKD A0C050520
Inj Date : 16-MAR-2010 21:33
Operator : DG Inst ID: LC12.i
Smp Info : LWCWJ1CKD A0C050520-2SD 0068274;3
Misc Info : MSD;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03162010.B\8330NQAB.m
Meth Date : 16-Mar-2010 21:44 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 79 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

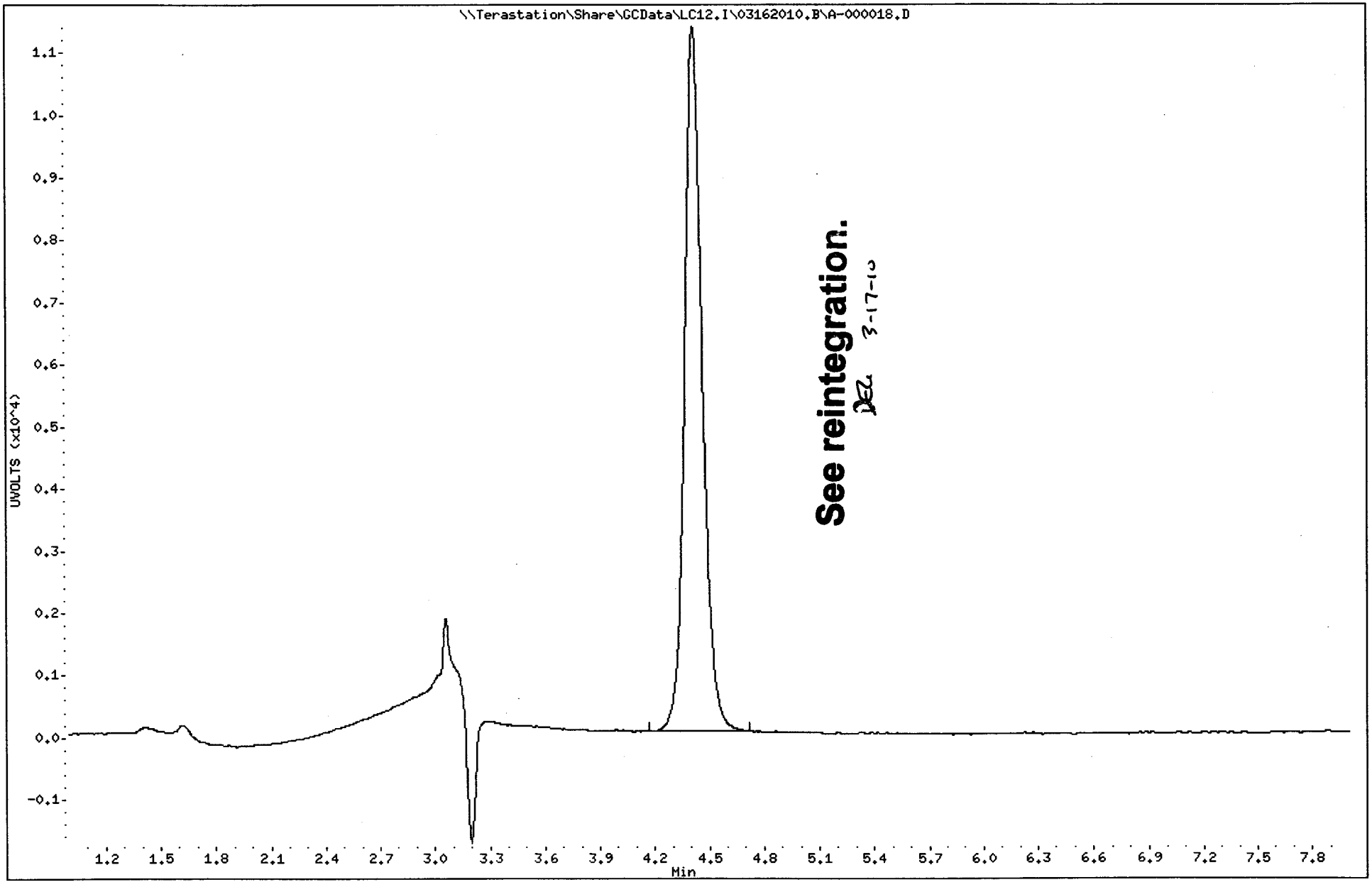
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.059	354	86	0.243	0.458	
4.416	76898	11324	0.147	99.542	
	77253	11410		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03162010.B\A-000018.D
Date : 16-MAR-2010 21:33
Client ID:
Sample Info: LWCWJ1CKD A0C050520-2SD 0068274;3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.i
Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000025.D

Chromatography Summary

Injection Date: 3/16/2010 23:38 **Operator:** DG

DataFile: LC12.I\03162010.B\A-000025.D **Vial Num:** 13

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **CCV3 09GCSV0429 NQ 100ng/mL**

Method File: LC12.I\03162010.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CCV3 09GCSV0429 NQ 100ng/mL;2

Misc. Info: ;3;;;;3;NQ.sub;;0;1

✓

	Signal 1 UV 250-265							Signal 2 UV 358-205								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.42	38892	99.5500<	100	0%	Acceptable					100	-100%	Fails		(±15)	45

✓ ✓

CCV in control

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

3-17-10

Printed: 3/17/2010 14:10

TestAmerica

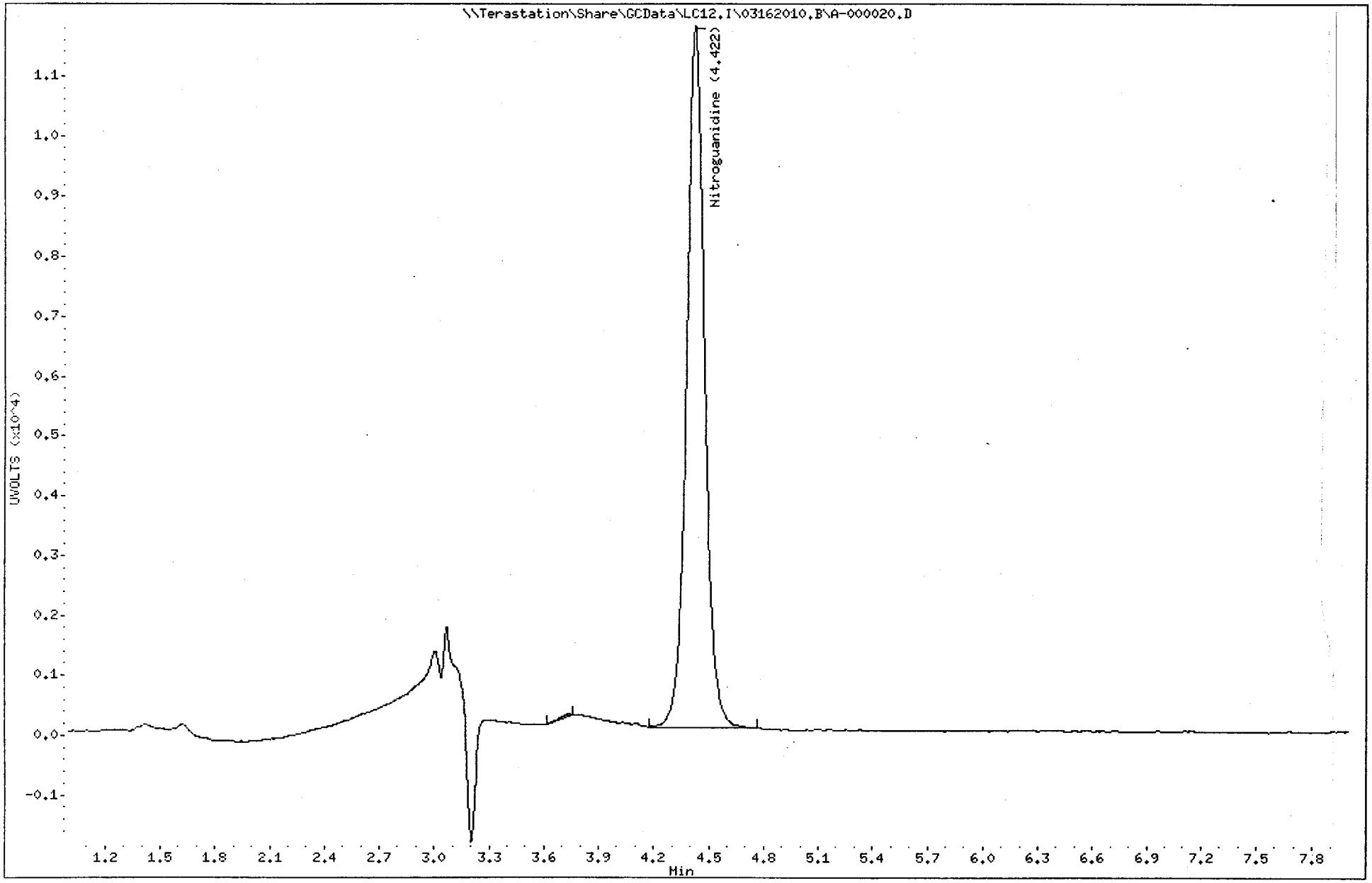
Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03162010.B\A-000025.D
Lab Smp Id: CCV3 09GCSV0429 NQ
Inj Date : 16-MAR-2010 23:38
Operator : DG Inst ID: LC12.i
Smp Info : CCV3 09GCSV0429 NQ 100ng/mL;2
Misc Info : ;3;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03162010.B\8330NQAB.m
Meth Date : 16-Mar-2010 23:55 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.055	191	75	0.392	0.489	
4.415	38892	5745	0.148	99.511	20 Nitroguanidine
	39084	5820		100.000	

Total unknown % area = 0.4890

Data File: \\Terastation\Share\GCData\LC12.I\03162010.B\A-000020.D
Date : 16-MAR-2010 22:08
Client ID:
Instrument: LC12.i
Sample Info: LWM7T1ACC G0C150000-LCS 0074327 S;3
Volume Injected (uL): 50.0
Operator: DG
Column phase: Luna 5u Amino
Column diameter: 4.60



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

GC/HPLC ICAL Checklist

Instrument ID: LC-12 ICAL ID: NQ-031220108 Method: 8330 NQ

Analytes Included in curve (with dates): Nitroguanidine

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	✓	✓	
2. ICAL Runlog included.	✓	✓	
3. ICV Included and moved to after summary.	✓	✓	
4. PEM meets requirements and is included for 8081.			✓
5. Alkane Marker included for 8015 TPH.			✓
6. ICAL Raw Data included for all analytes.	✓	✓	
B. ICAL Summary			
1. All analytes meet %RSD or linear regression requirements. = 2.3%	✓	✓	
2. ICAL meets requirements stated in SOP.	✓	✓	
2. Any levels dropped are reviewed and appropriate.			✓
3. All analytes in ICAL are in the ICAL summary.	✓	✓	
4. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			✓
2. All peaks correctly identified.	✓	✓	
3. No analytes have saturated peaks.	✓	✓	
4. RT windows set correctly (8015 TPH).			✓
5. ICV meets requirements and is run after the ICAL.	✓	✓	
6. Standards used in ICAL are current.	✓	✓	
7. ICAL is copied to source method.	✓	✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	✓		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	✓		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

Analyst: DEGail Date: 3-12-2010

Reviewer: Mkelly Date: 3/15/2010

Comments:

TestAmerica West Sacramento

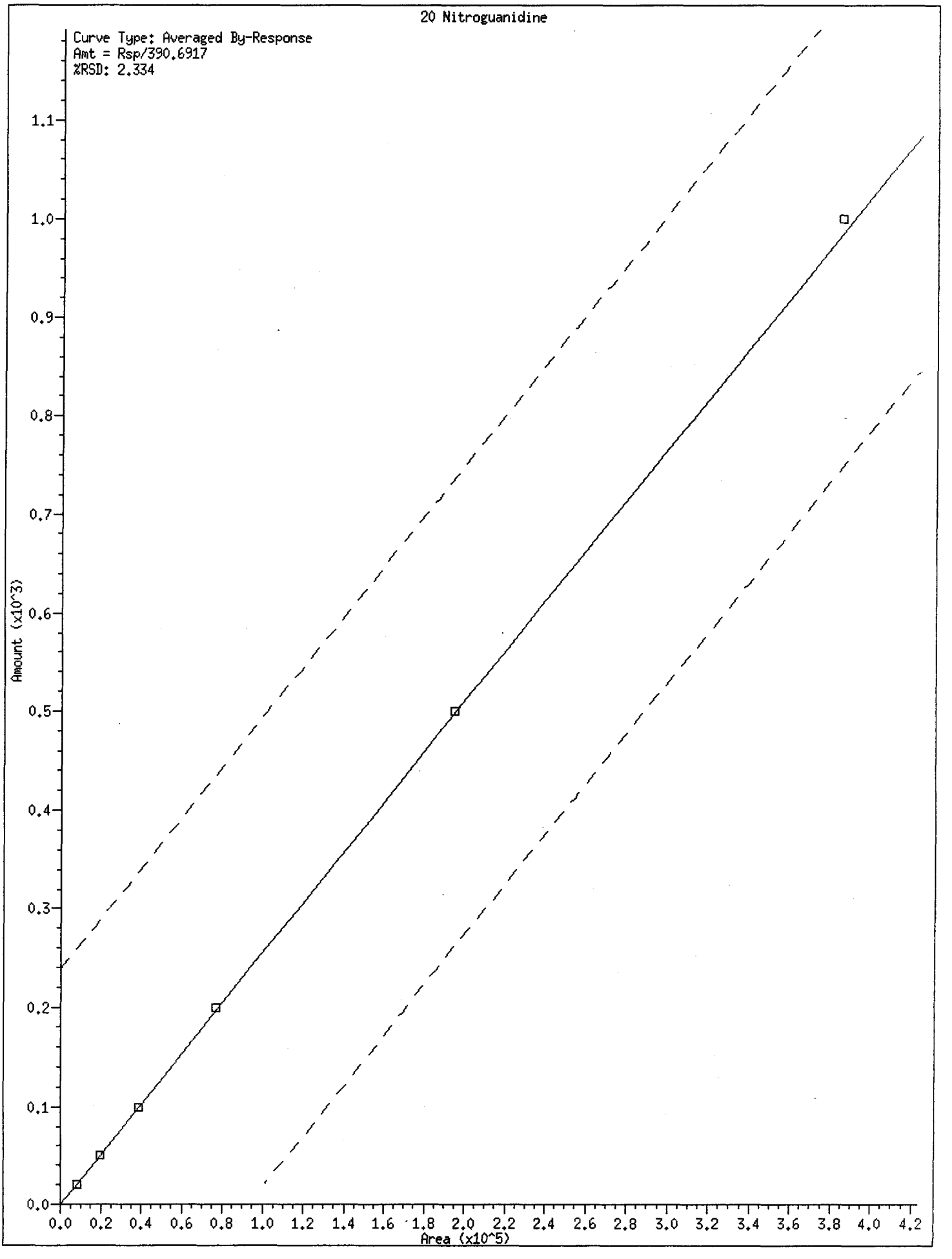
INITIAL CALIBRATION DATA

Start Cal Date : 30-JUN-2009 16:49
End Cal Date : 12-MAR-2010 19:22
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.M
Last Edit : 12-Mar-2010 20:47 galld
Curve Type : Average

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000004.d
Level 2: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000005.d
Level 3: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000006.d
Level 4: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000007.d
Level 5: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000008.d
Level 6: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000009.d

3/15/2010 mcw

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	200.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
20 Nitroguanidine	409	390	387	386	388	385	391	2.334


20 Nitroguanidine
Curve Type: Averaged By-Response
Amt = Rsp/390.6917
%RSD: 2.334
Amount (x10^3)
Area (x10^5)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2

Compound Listing For: 20 Nitroguanidine

Compound Type: Target
ISTD Group #: 1
ESTD Group #: 1
Lab ID: CAS #: 556-88-7
RT Window: 0.20
Quant By: Area

Signal: 1
ID Method: Hit Closest to RT
Expected RT: 4.416 RT Window: 4.216 - 4.616

Calibration table parameters

Curve Type: Averaged Curve Origin: Disabled
Calibration Curve: Amt = Rsp/3.90691667e+002
%RSD: 2.334
Continuing Cal RF: 1.13200e+001
% Difference: -97.1026

Levl	Active	Reps	Amount	Response	RTReps	RT
1	Enabled	1	20.00000	8179	1	4.404367
2	Enabled	1	50.00000	19478	1	4.401033
3	Enabled	1	100.00000	38685	1	4.402283
4	Enabled	1	200.00000	77102	1	4.412700
5	Enabled	1	500.00000	194244	1	4.415617
6	Enabled	1	1000.00000	384792	1	4.401867

Compound Report Parameters

Graphic Display Time Range: 0.50
Graphic Overlay Time Range: 0.50
Sample Form Report Order: 19
CpndVariable: 1.00
Gas Samples: 10.00000
Liquid Samples: 20.00000
Solid Samples(Low Conc): 250.00000
Solid Samples(Med Conc): 0.00000
Max Compound Amt Limit: 1000.00000
Minimum r^2: 0.99
Minimum RF: 0.00
Maximum %RSD: 20.00
Maximum %D: 15.00
Maximum %Drift: 0.00

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# _____

Inst ID: LC12 Batch ID: 03122010B
Method : Method 8330 Nitroguanidine Test : SOP WS-LC-0010
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
12-MAR-2010	17:17	DG	Primer 1000	A-000002.	0 g	0 mL	1	
12-MAR-2010	17:35	DG	Water blank	A-000003.	0 g	0 mL	1	
12-MAR-2010	17:53	DG	CS01 09GCSV0427 NQ 20ng/mL	A-000004.	0 g	0 mL	1	
12-MAR-2010	18:11	DG	CS02 09GCSV0428 NQ 50ng/mL	A-000005.	0 g	0 mL	1	
12-MAR-2010	18:29	DG	CS03 09GCSV0429 NQ 100ng/mL	A-000006.	0 g	0 mL	1	
12-MAR-2010	18:47	DG	CS04 09GCSV0430 NQ 200ng/mL	A-000007.	0 g	0 mL	1	
12-MAR-2010	19:04	DG	CS05 09GCSV0431 NQ 500ng/mL	A-000008.	0 g	0 mL	1	
12-MAR-2010	19:22	DG	CS06 09GCSV0432 NQ 1000ng/mL	A-000009.	0 g	0 mL	1	
12-MAR-2010	19:40	DG	Water blank	A-000010.	0 g	0 mL	1	
12-MAR-2010	19:58	DG	ICV 10GCSV0109 NQ 200ng/mL	A-000011.	0 g	0 mL	1	
12-MAR-2010	20:16	DG	LODV 09GCSV0426 NQ 15ng/mL	A-000012.	0 g	0 mL	1	

Run in progress.
DG 3-12-2010

TestAmerica West Sacramento

A-000011.D

Chromatography Summary

Injection Date: 3/12/2010 19:58 **Operator:** DG

DataFile: LC12.I\03122010B.B\A-000011.D **Vial Num:** 17

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **ICV 10GCSV0109 NQ 200ng/mL**

Method File: LC12.I\03122010B.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: ICV 10GCSV0109 NQ 200ng/mL;2

Misc. Info: ;4;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 338-205~~ NA

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.41	/ 80046	204.9000<	200	2%	Acceptable	✓				~~200~~	~~100%~~	~~Fails~~	NA	(±15)	45

ICV in control

DL 3-12-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000011.d
Lab Smp Id: ICV 10GCSV0109 NQ 2
Inj Date : 12-MAR-2010 19:58
Operator : DG Inst ID: LC12.i
Smp Info : ICV 10GCSV0109 NQ 200ng/mL;2
Misc Info : ;4;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 21:22 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

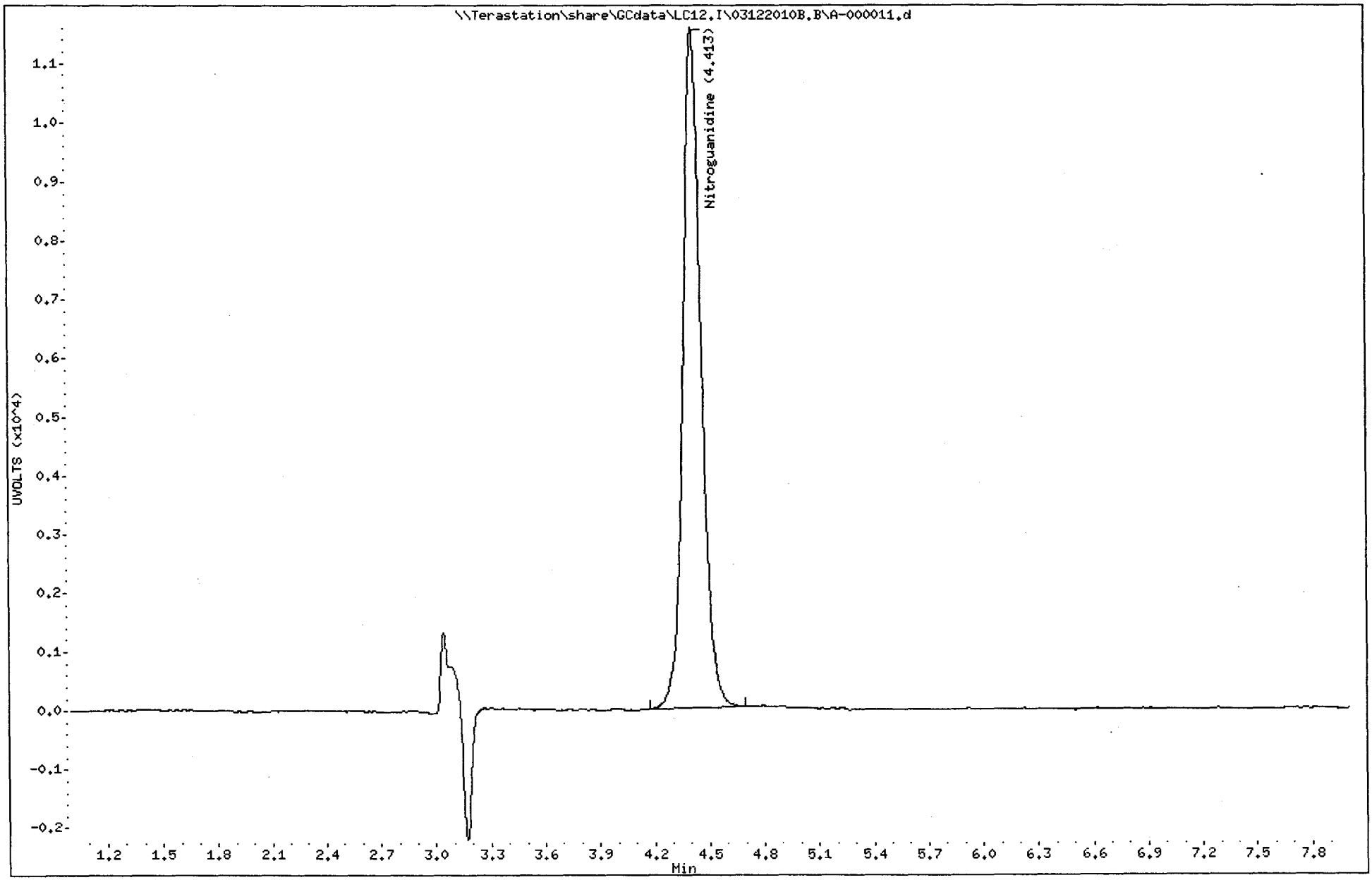
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.053	374	82	0.219	0.465	
4.413	80046	11577	0.145	99.535	20 Nitroguanidine
	80421	11659		100.000	

Total unknown % area = 0.4650

Data File: \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000011.d
Date : 12-MAR-2010 19:58
Client ID:
Sample Info: ICV 10GCSV0109 NQ 200ng/mL;2

Instrument: LC12.i
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



TestAmerica West Sacramento

A-000004.D

Chromatography Summary

Injection Date: 3/12/2010 17:53 **Operator:** DG

DataFile: LC12.I\03122010B.B\A-000004.D **Vial Num:** 11

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **CS01 09GCSV0427 NQ 20ng/mL**

Method File: LC12.I\03122010B.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CS01 09GCSV0427 NQ 20ng/mL;1

Misc. Info: ;1;;;3;NQ.sub;;0;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	8179	20		408.95			20		0

DEL 3-12-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

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Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000004.d
Lab Smp Id: CS01 09GCSV0427 NQ
Inj Date : 12-MAR-2010 17:53
Operator : DG Inst ID: LC12.i
Smp Info : CS01 09GCSV0427 NQ 20ng/mL;1
Misc Info : ;1;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:32 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 11 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.061	230	74	0.322	2.732	
4.404	8179	1162	0.142	97.268	20 Nitroguanidine
	8409	1236		100.000	

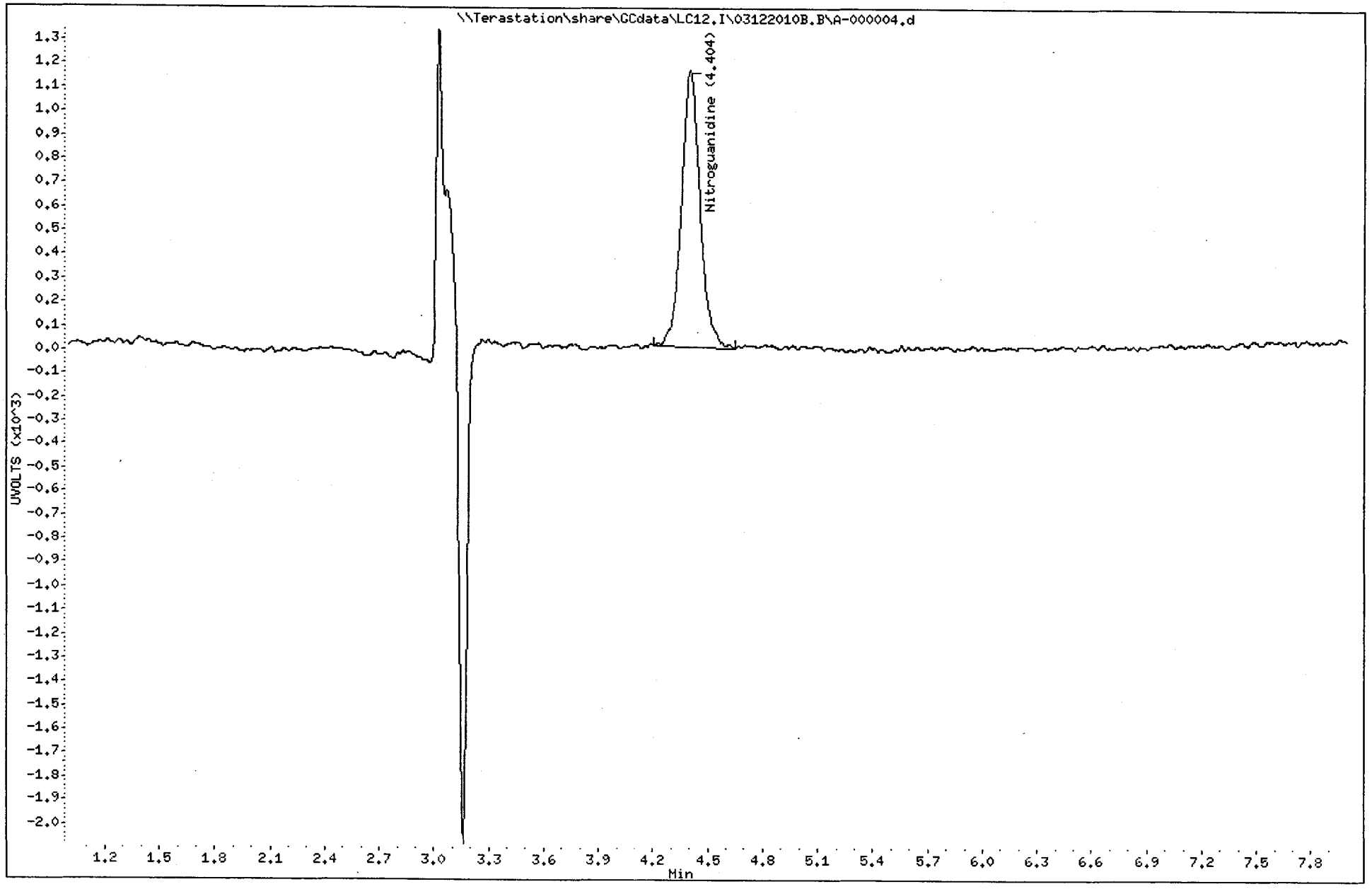
Total unknown % area = 2.732

Data File: \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000004.d
Date : 12-MAR-2010 17:53
Client ID:
Sample Info: CS01 09GCSV0427 NQ 20ng/mL;1

Column phase: Luna 5u Amino

Instrument: LC12.i

Operator: DC
Column diameter: 4.60



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A-000005.D

Chromatography Summary

Injection Date: 3/12/2010 18:11 **Operator:** DG

DataFile: LC12.I\03122010B.B\A-000005.D **Vial Num:** 12

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CS02 09GCSV0428 NQ 50ng/mL**

Method File: LC12.I\03122010B.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CS02 09GCSV0428 NQ 50ng/mL;1

Misc. Info: ;2;;;;3;NQ.sub;;0;I

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	19478	50		389.56			50		0

DEL 3-12-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000005.d
Lab Smp Id: CS02 09GCSV0428 NQ
Inj Date : 12-MAR-2010 18:11
Operator : DG Inst ID: LC12.i
Smp Info : CS02 09GCSV0428 NQ 50ng/mL;1
Misc Info : ;2;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:32 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 12 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.054	207	71	0.343	1.050	
4.401	19479	2816	0.145	98.950	20 Nitroguanidine
	19685	2887		100.000	

Total unknown % area = 1.050

Data File: \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000005.d

Date : 12-MAR-2010 18:11

Client ID:

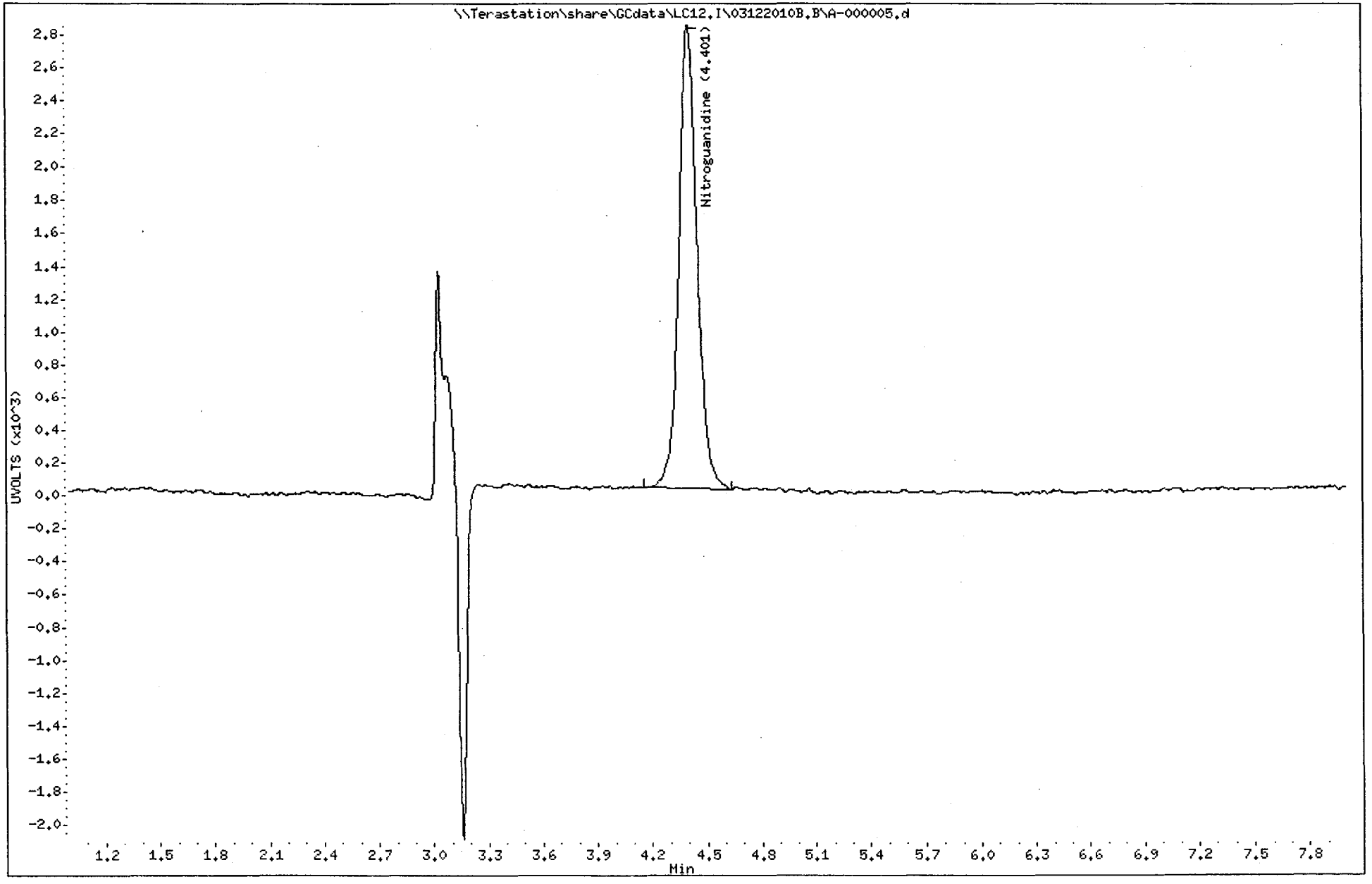
Instrument: LC12.i

Sample Info: CS02 09GCSV0428 NQ 50ng/mL;1

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000006.D

Chromatography Summary

Injection Date: 3/12/2010 18:29 **Operator:** DG

DataFile: LC12.I\03122010B.B\A-000006.D **Vial Num:** 13

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **CS03 09GCSV0429 NQ 100ng/mL**

Method File: LC12.I\03122010B.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CS03 09GCSV0429 NQ 100ng/mL;1

Misc. Info: ;3;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	38685	100		386.85			100		0

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

DEL 3-12-10

Printed: 3/12/2010 20:32

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000006.d
Lab Smp Id: CS03 09GCSV0429 NQ
Inj Date : 12-MAR-2010 18:29
Operator : DG Inst ID: LC12.i
Smp Info : CS03 09GCSV0429 NQ 100ng/mL;1
Misc Info : ;3;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:32 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 13 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

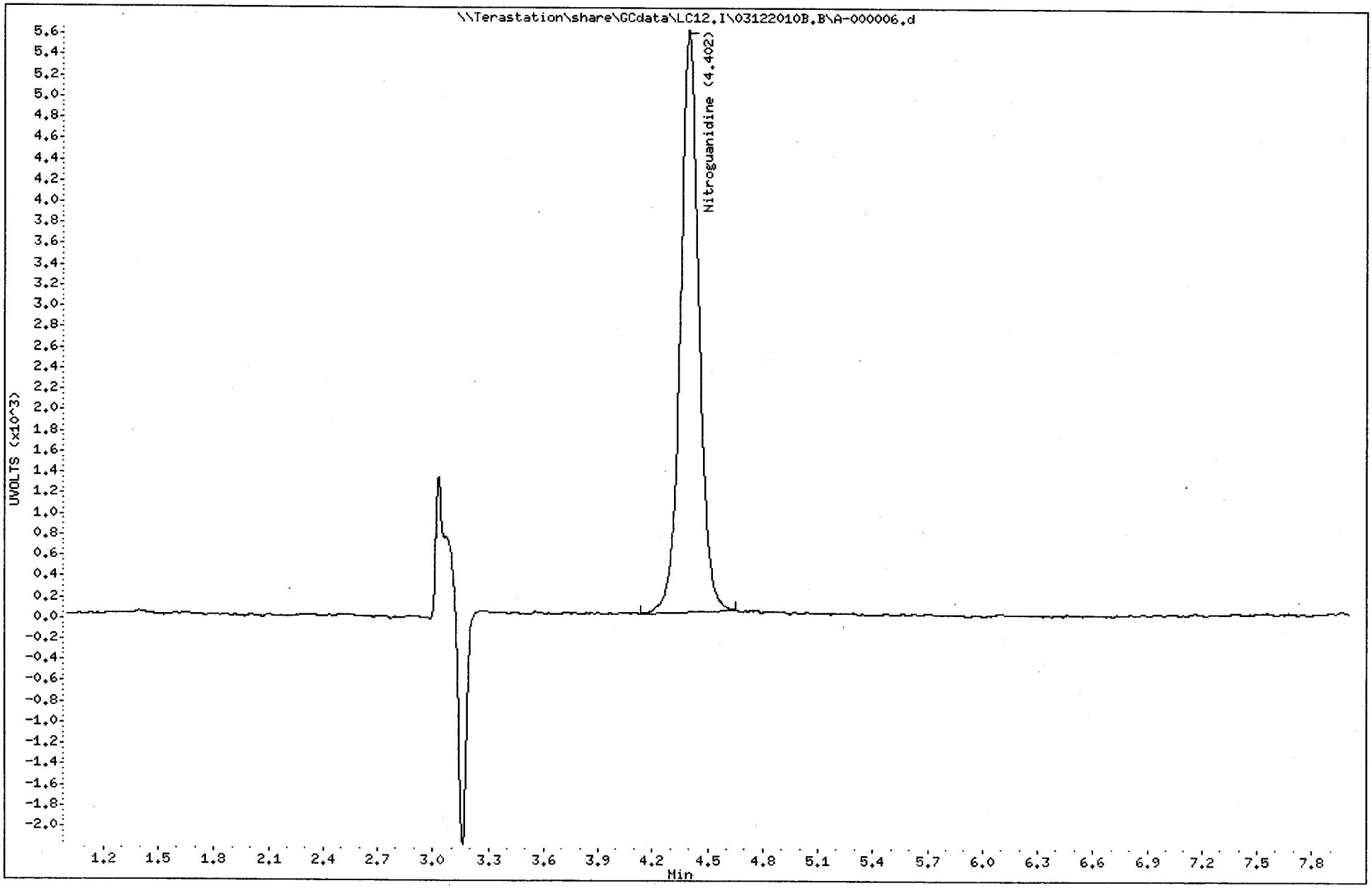
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.052	335	80	0.239	0.858	
4.402	38686	5580	0.144	99.142	20 Nitroguanidine
	39021	5660		100.000	

Total unknown % area = 0.8580

Data File: \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000006.d
Date : 12-MAR-2010 18:29
Client ID:
Sample Info: CS03 09GCSV0429 NQ 100ng/mL;1

Instrument: LC12.i
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



TestAmerica West Sacramento

A-000007.D

Chromatography Summary

Injection Date: 3/12/2010 18:47 **Operator:** DG

DataFile: LC12.I\03122010B.B\A-000007.D **Vial Num:** 14

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **CS04 09GCSV0430 NQ 200ng/mL**

Method File: LC12.I\03122010B.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CS04 09GCSV0430 NQ 200ng/mL;1

Misc. Info: ;4;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	77102	200		385.51			200		0

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

$$\text{Response} = \frac{77102 \text{ cts}}{200 \text{ ng/mL}} = 385.51$$

DG 3-12-2010

Printed: 3/12/2010 20:33

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000007.d
Lab Smp Id: CS04 09GCSV0430 NQ
Inj Date : 12-MAR-2010 18:47
Operator : DG Inst ID: LC12.i
Smp Info : CS04 09GCSV0430 NQ 200ng/mL;1
Misc Info : ;4;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:32 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.055	531	87	0.164	0.684	
4.405	77103	11165	0.145	99.316	20 Nitroguanidine
	77634	11252		100.000	

Total unknown % area = 0.6840

Data File: \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000007.d

Date : 12-MAR-2010 18:47

Client ID:

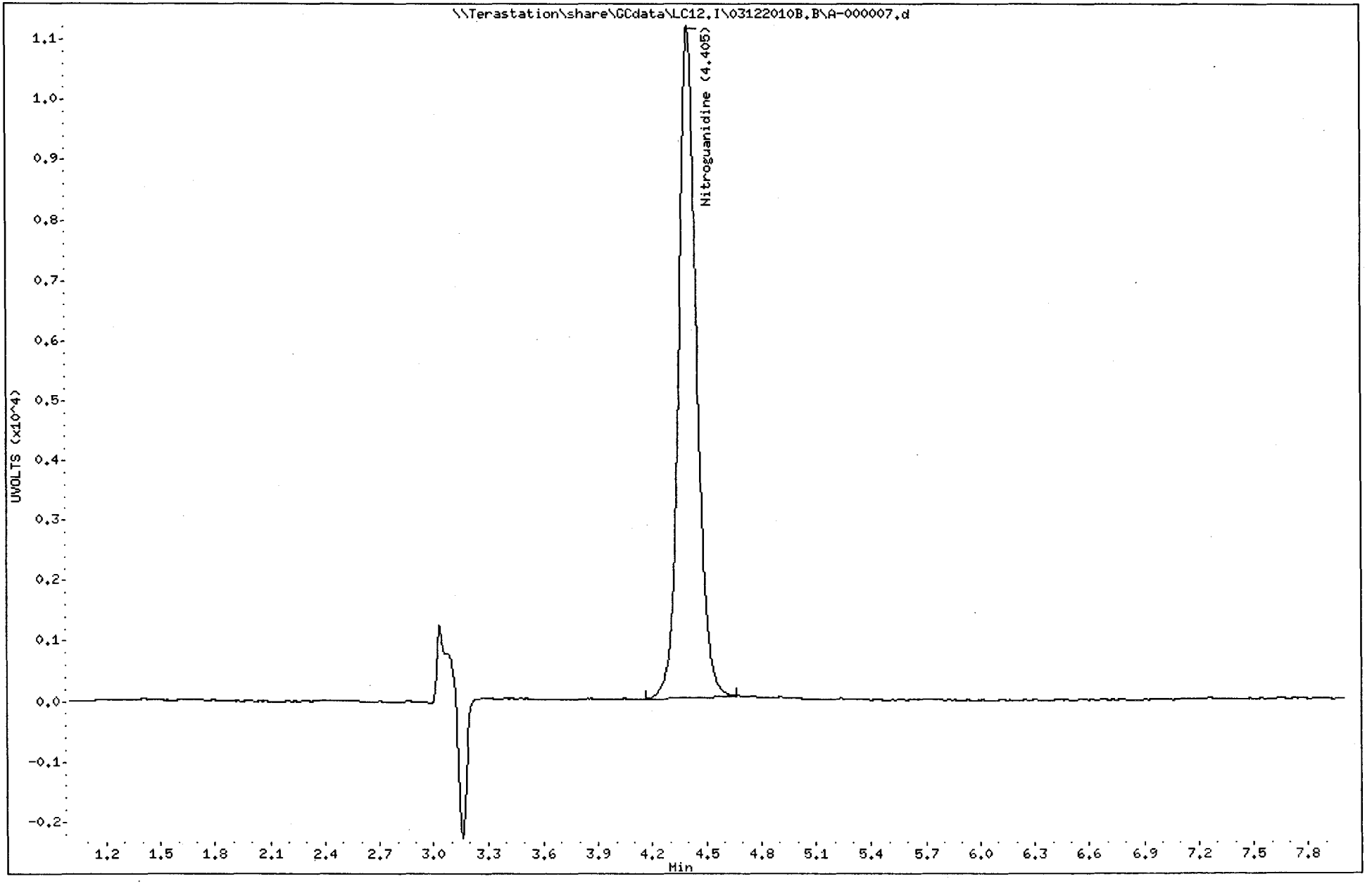
Instrument: LC12.i

Sample Info: CS04 09GCSV0430 NQ 200ng/mL;1

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000008.D

Chromatography Summary

Injection Date: 3/12/2010 19:04 **Operator:** DG

DataFile: LC12.I\03122010B.B\A-000008.D **Vial Num:** 15

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CS05 09GCSV0431 NQ 500ng/mL**

Method File: LC12.I\03122010B.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CS05 09GCSV0431 NQ 500ng/mL;1

Misc. Info: ;5;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250 265~~ 263 Signal 2 ~~UV 358 205~~ NA

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	194244	500		388.488			500		0

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50% Signals Differ by More Than 40%
- Signals Differ by More Than 50%

DEL 3-12-10

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000008.d
Lab Smp Id: CS05 09GCSV0431 NQ
Inj Date : 12-MAR-2010 19:04
Operator : DG Inst ID: LC12.i
Smp Info : CS05 09GCSV0431 NQ 500ng/mL;1
Misc Info : ;5;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:33 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

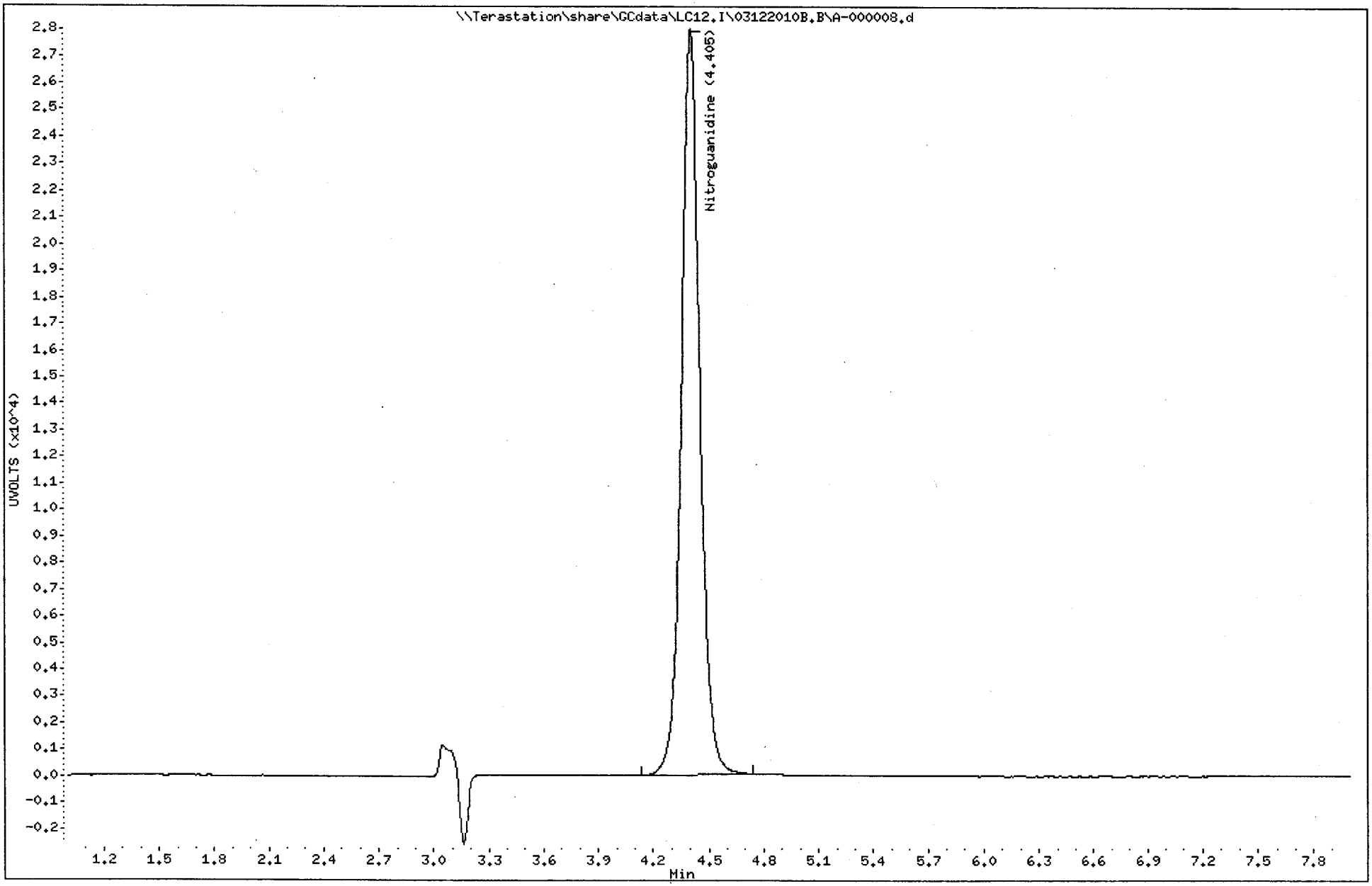
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.061	170	53	0.312	0.087	
4.405	194245	27999	0.144	99.913	20 Nitroguanidine
	194415	28052		100.000	

Total unknown % area = 0.08700

Data File: \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000008.d
Date : 12-MAR-2010 19:04
Client ID:
Sample Info: CS05 09GCSV0431 NQ 500ng/mL;1

Instrument: LC12.i
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



TestAmerica West Sacramento

A-000009.D

Chromatography Summary

Injection Date: 3/12/2010 19:22 **Operator:** DG

DataFile: LC12.I\03122010B.B\A-000009.D **Vial Num:** 16

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CS06 09GCSV0432 NQ 1000ng/mL**

Method File: LC12.I\03122010B.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CS06 09GCSV0432 NQ 1000ng/mL;1

Misc. Info: :6;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250,265~~ 263 Signal 2 ~~UV 258,205~~ NA

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	384792	1000		384.792			1000		0

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

DL 3-12-10

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000009.d
Lab Smp Id: CS06 09GCSV0432 NQ
Inj Date : 12-MAR-2010 19:22
Operator : DG Inst ID: LC12.i
Smp Info : CS06 09GCSV0432 NQ 1000ng/mL;1
Misc Info : ;6;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:33 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 16 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

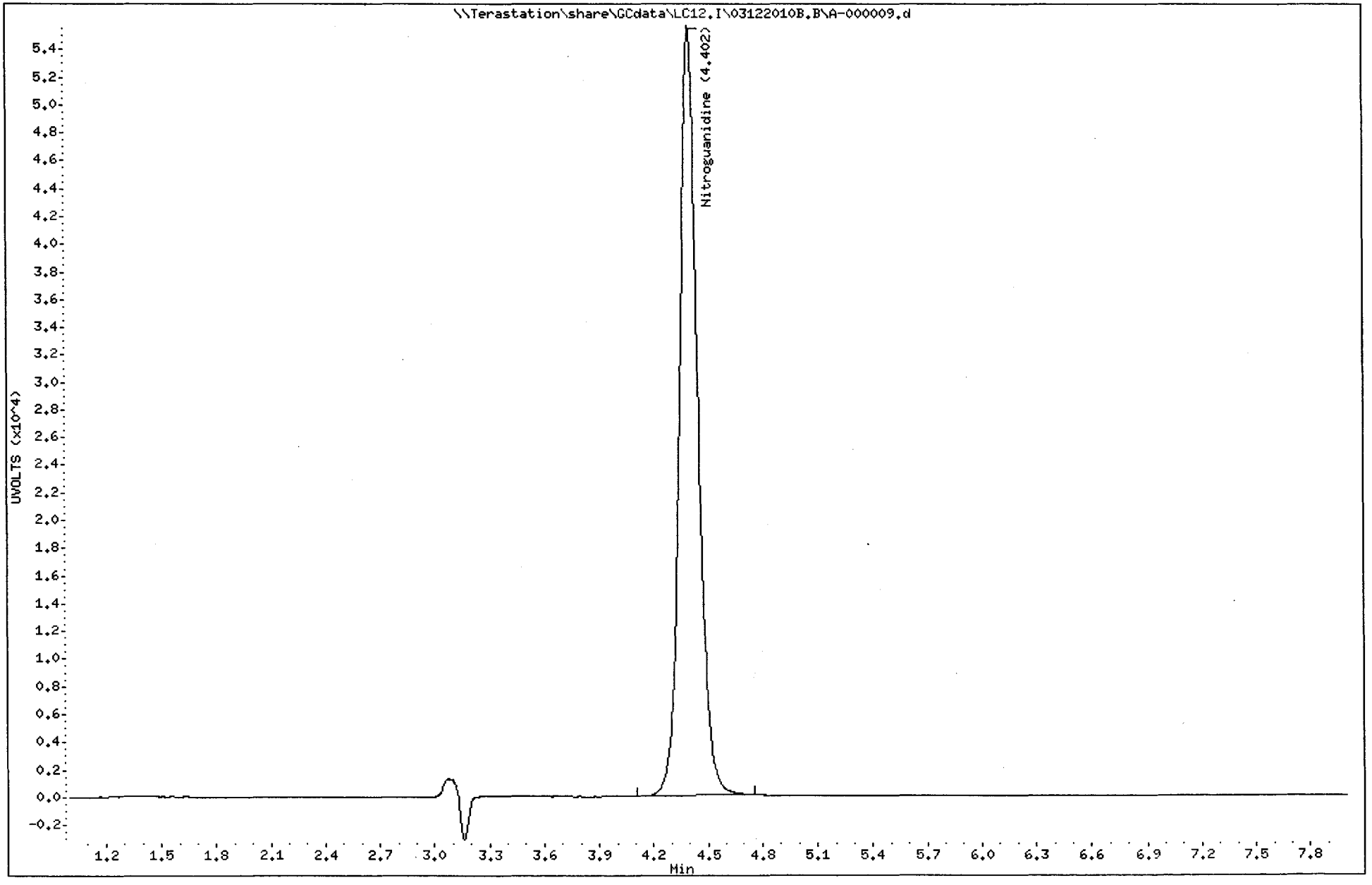
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.079	325	69	0.212	0.084	
4.402	384792	55614	0.145	99.916	20 Nitroguanidine
	385118	55683		100.000	

Total unknown % area = 0.08400

Data File: \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000009.d
Date : 12-MAR-2010 19:22
Client ID:
Sample Info: CS06 09GCSV0432 NQ 1000ng/mL;1

Instrument: LC12.i
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



TestAmerica West Sacramento

A-000010.D

Chromatography Summary

Injection Date: 3/12/2010 19:40 **Operator:** DG

DataFile: LC12.I\03122010B.B\A-000010.D **Vial Num:** 1

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **Water blank**

Method File: LC12.I\03122010B.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: Water blank;0

Misc. Info: ;;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Diff	Response	PPB	Flag	RT	Diff	Response	PPB	Flag	MDL	RL	Flag
Nitroguanidine				ND							0.0000	0.00	

Del 3-12-10

Notes:

M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000010.d
Lab Smp Id: Water blank
Inj Date : 12-MAR-2010 19:40
Operator : DG Inst ID: LC12.i
Smp Info : Water blank;0
Misc Info : ;;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 21:19 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.077	326	61	0.187	100.000	
	326	61		100.000	

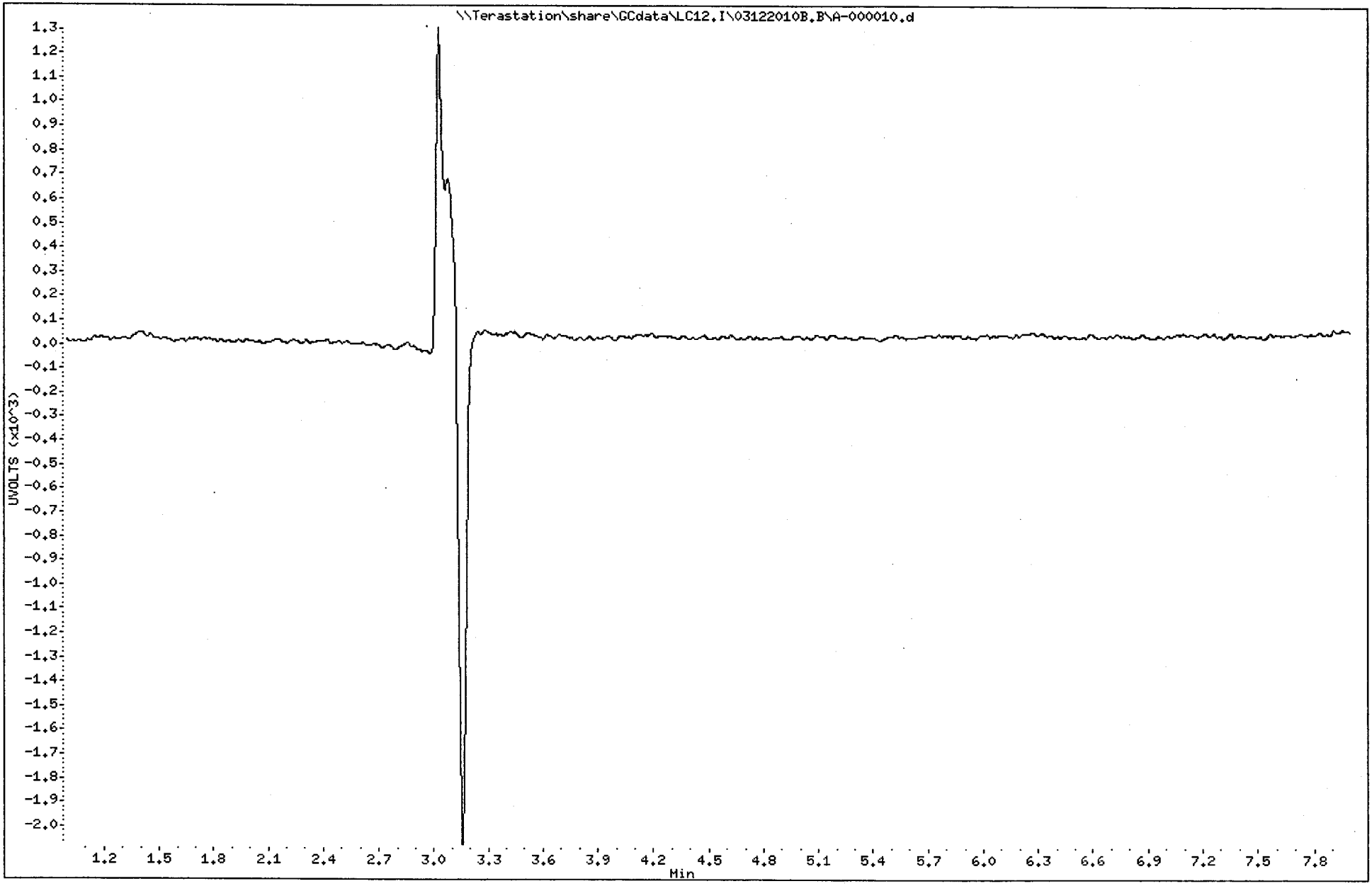
Total unknown % area = 100.0

Data File: \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000010.d
Date : 12-MAR-2010 19:40
Client ID:
Sample Info: Water blank;0

Column phase: Luna 5u Amino

Instrument: LC12.i

Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000012.D

Chromatography Summary

Injection Date: 3/12/2010 20:16 **Operator:** DG

DataFile: LC12.I\03122010B.B\A-000012.D **Vial Num:** 18

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LODV 09GCSV0426 NQ 15ng/mL**

Method File: LC12.I\03122010B.B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: LODV 09GCSV0426 NQ 15ng/mL;0

Misc. Info: ;7;;;;3;NQ.sub;;0;1

Signal 1 UV ~~250,265~~ 263 Signal 2 ~~UV 258,205~~ NA

Compound Name	RT	Diff	Response	PPB	Flag	RT	Diff	Response	PPB	Flag	MDL	RL	Flag
Nitroguanidine	4.42	0.003	5660	14.4900<	-3.4% Dev						0.0000	0.00	45

Expected value 15ng/mL.

LODV in control

DG 3-12-10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000012.d
Lab Smp Id: LODV 09GCSV0426 NQ
Inj Date : 12-MAR-2010 20:16
Operator : DG Inst ID: LC12.i
Smp Info : LODV 09GCSV0426 NQ 15ng/mL;0
Misc Info : ;7;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 21:22 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

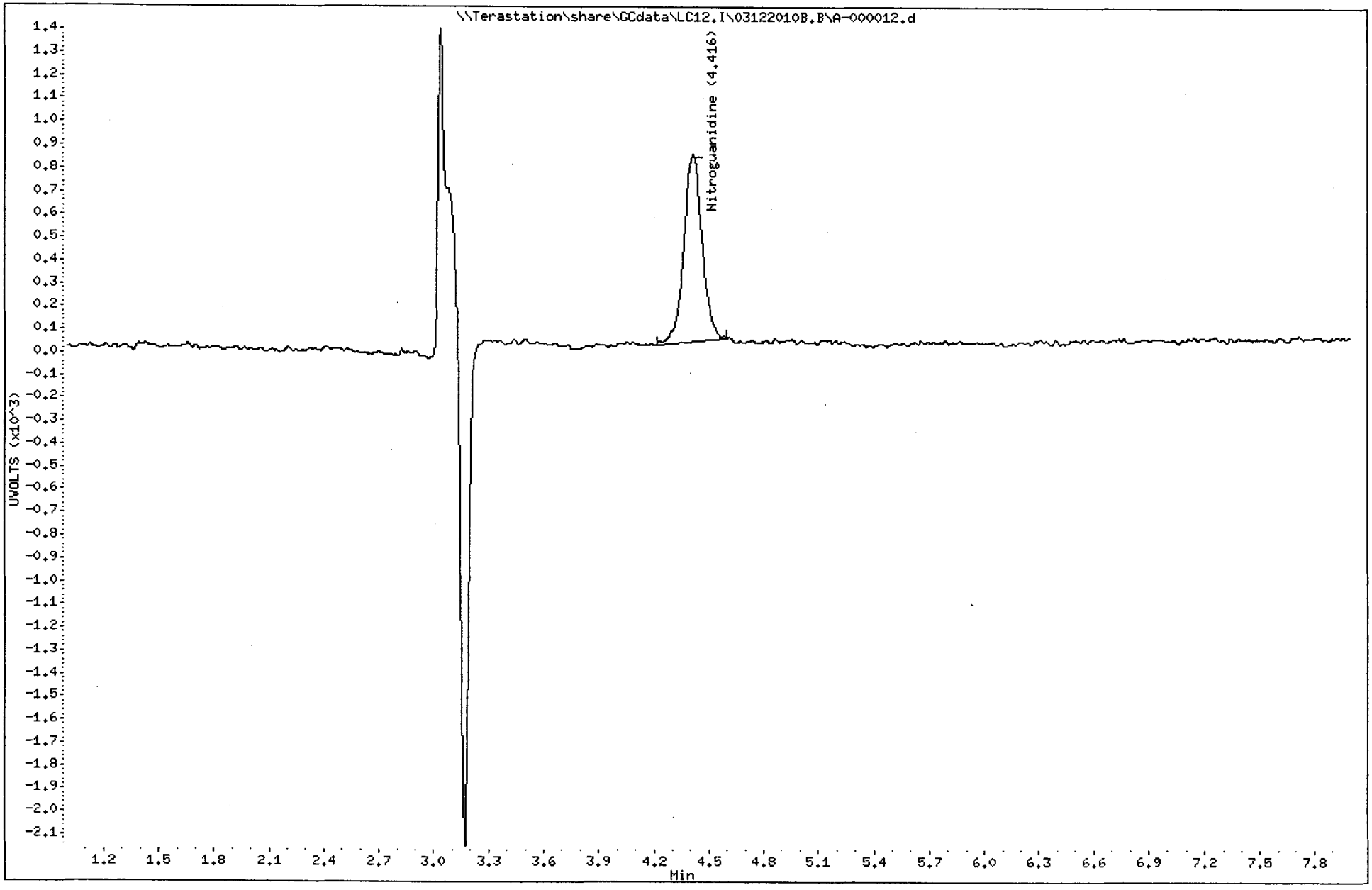
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.066	247	61	0.247	4.187	
4.416	5660	813	0.144	95.813	20 Nitroguanidine
	5908	874		100.000	

Total unknown % area = 4.187

Data File: \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000012.d
Date : 12-MAR-2010 20:16
Client ID:
Sample Info: LODV 09GCSV0426 NQ 15ng/mL;0

Instrument: LC12.i
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



Sample Extraction/Preparation Log Copies and Checklists

North Canton AZ

TestAmerica West Sacramento
ESC-Extraction Master Sheet

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Holding Time Due: 3/10/10 Project Due: 3/26/10
BATCH #: 0068274 Initiated By: TP Date: 3/9/10
Test #: NQ-S Extn Comp'd By: NA Date: 3-10-10

QC Code	Lot ID	Sample #	Sample Size / Initial Mass (g)	Final Volume / Final Mass (mL)	Chlorine checked
	MB		2.00	10.00	3-10-10 HD
	LCS		2.00	10.00	
	ACC050520	02	2.00	10.00	
S	↓	02MS	2.04	10.00	
D		02MSD	2.00	10.00	
	3-10-10 MD				

SOP No.: WS-LC-0009

EXTRACTION COMMENTS:
Multi-incremental Sampling/Date: N/A

Dried/Date 3/8/10 Ground//Date 3/9/10
Sonicated - Start: 3/9/10 @ 14:00 End: 8:00 Date: 3/10/10

Cleanup by/Date HD 3/10/10 Dilution by/Date N/D

Final Vialling /Date NA 3/10/10

Millipore Water Dispensed / Date N/A

SPE Cartridge: Waters Lot # N/A

QC Codes	Standard Information				
	Volume	STD ID	Exp. Date	STD Name/Conc.	ppm/ppb
C, S, D	40uL	09GCSV0425	4/16/10	NQ-Spike 50ug/mL	

Spiked By / Date: TP 3/9/10 Witnessed By / Date: HD 3/9/10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD, FB = Filter Blank

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/10/10
Time: 13:44:11

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets
				_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 002448 Tuan Q. Phan

Concentrationist: 000915 Horacio J. Arauz

Reviewer/Date: ARAUZH / 3/10/10

QC BATCH: 0068274

PREP DATE: 3/09/10 13:00
COMP DATE: 3/10/10 10:30

Organic Compounds by UV/HPLC
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-A9**	0068158 D	13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	N/A
COMMENTS:															
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-CJS**	0068158 D	13	V9	SOLID	**2.04g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 N/A
COMMENTS:															
3/11/10	3/26/10	A0C050520-002 **LWCWJ-1-CKD**	0068158 D	13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 N/A
COMMENTS:															
3/11/10	0/00/00	G0C090000-274 **LWFWA-1-AAB**		13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	N/A
COMMENTS:															
3/11/10	0/00/00	G0C090000-274 **LWFWA-1-ACC**		13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 N/A
COMMENTS:															

1.3G/L CACL2 3844-009E; .45 FILTER MILLIPORE R9HN15546.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 5

THE LEADER IN ENVIRONMENTAL TESTING

Preparation Data Review Checklist

Prep Batch(es) 0068274 Test: NO-5

Prep Date: 3/9/10 Holding Times: 3/10/10 NCM: Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate		
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)		
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.		NA
4. Worksheets have been checked for required spiking compounds		
5. Spiking volumes are correctly documented		
6. Std ID numbers on spike labels match numbers on bench sheet		NA
7. Expiration dates have been checked		
8. Calibration expiration dates on pipettors have been checked		NA
9. Spiker and spike witness have signed and dated bench sheet		
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: HD Date: 3/9/10

2nd Level Reviewer: [signature] Date: 3/10/10

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

GC/HPLC Data Review Checklist

Lot ID: AQC050520 **Test:** NQ-5 **PM:** MJL

Prep Batch(es) 0068274 **Due Date:** 3/26/10 **NCM:** (Y) N

A. Calibration/Instrument Run QC	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV Criteria met.	✓	✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria			✓
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.			✓
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
B. QA/QC			
1. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
2. LCS/LCSD and MB data is included.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	✓	✓	
4. MS/MSD data complete.	✓	✓	
5. Holding Times were met.	✓	✓	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	✓	✓	
2. Logbooks/prep sheets properly filled out.	✓	✓	
3. Manual Integrations reviewed and appropriate.	✓	✓	
4. All raw data for samples is included (applies to unused data as well)	✓	✓	
5. All analytes correctly reported.	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: DEGall Date: 3-18-2010

2nd Level Reviewer: MWay Date: 3/18/2010

Comments:

SOLID, 353.2, Nitrocellulose

Nitrocellulose

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Level 1 & 2 Review Checklist
General Chemistry

Lots: GOC020446, GOC020486, GOC030439, GOC040516, GOC050497, AOC030547, AOC040510, AOC050520

Analysis: NO2+NO3 (EPA 353.2), NCHL **Date(s):** 3.11.10 **Analyst:** CCH

Level 1 Review:	YES	NO	N/A
1. Samples properly preserved/verified	✓		
2. Run setup meets std criteria (Curve,ICV,ICB,CCV,etc)	✓		
3. Calibration criteria met (R=0.995, R^2=0.990)	✓		
4. Second source std in control	✓		
5. Batch QC in control (LCS,MB,MS/MSD,DCS-if necessary)	✓		
6. Calculations checked	✓		
7. QAS/QAPP consulted for client specific requirements	✓		
8. Standard tracking #'s recorded on runlog/benchsheet	✓		
9. Manual integration performed, documented & approved	✓		✓
10. Copy of run log included with data package	✓		✓
11. Copy of conductivity screen logbook (314.0 only)			

Level 1 Data Review:			
1. Benchsheet complete	✓		
2. QAS/QAPP consulted for client specific data entry	✓		
3. Copy of prep sheet/checklist submitted			
4. NCM(s) submitted			

Completed by and Date: JOR 3.12.10

Level 2 Review:			
1. Level 1 checklist complete & verified	X		
2. Deviations, NCM(s), holding times checked & approved	X		
3. Reprep/Reanalysis documented and chemist notified			X
4. Client specific criteria met	X		
5. Data entry checked and released in LIMS	X		
6. Indication on benchsheet of review (dated and initialed)	X		
7. Manual integration reviewed, approved (dated and initialed)			X
8. Copy of run log included with data package	X		
9. Copy of conductivity screen logbook (314.0 only)			X

Completed by and Date: BEV 3/12/10

Comments:

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0068158**

Date 3/12/2010
Time 12:38:24

Method Code:**WA Nitrocellulose as N by 353.2**
Analyst:**Chris Hebert**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Output Result	LDL	Dil.
LV9DA-1-CA	0.8	mg/kg	5.0	03/09-03/11/10	79.23	N		1.0 B,J	6.3	1.00
LV9DF-1-CA	1.07	mg/kg	5	03/09-03/11/10	80.40	N		1.3 B,J	6.2	1.00
LV9EA-1-CA	0.79	mg/kg	5	03/09-03/11/10	89.94	N		0.88 B,J	5.6	1.00
LV9EH-1-CA	ND	mg/kg	5	03/09-03/11/10	87.32	N		ND	5.7	1.00
LV9EJ-1-CA	ND	mg/kg	5	03/09-03/11/10	89.71	N		ND	5.6	1.00
LWAE6-1-AE	ND	mg/kg	5.0	03/09-03/11/10	83.37	N		ND	6.0	1.00
LWCWJ-1-CA	ND	mg/kg	5.0	03/09-03/11/10	81.68	N		ND	6.1	1.00
LWFAJ-1-AA	0.82	mg/kg	5.0	03/09-03/11/10	.00			0.82 B	5.0	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.
B Estimated result. Result is less than RL.
J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
LWFAJ-1-AC		50.9	36.2	71.11	03/09-03/11/10	(34-115)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil.
LV9DA-1-CJ		0.8	50.9	21.7	15.1	41.06	28.17	35.87	03/09-03/11/10	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

RQC050 TestAmerica Laboratories, Inc. Run Date: 3/12/10
WET CHEM BATCHSHEET Time: 13:06:37

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: CM Nitrate-Nitrite (353.2, Automated)
Nitrate-Nitrite
QC BATCH #: **0071211** INITIALS: DATA ENTRY:
PREP DATE: 3/11/10 15:34 PREP _____ INITIALS _____
COMP DATE: 3/11/10 15:34 ANAL _____ DATE _____
USER: ROGERSJ

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
LV7HM-1-AA	G-0C020446-003	XX I 23 CM 01	Y-D	_____	F-888-EFF
LV7HM-1-AE	G-0C020446-003-D	XX I 23 CM 01	Y-D	_____	F-888-EFF
LV7HM-1-AD	G-0C020446-003-S	XX I 23 CM 01	Y-D	_____	F-888-EFF
LV7W3-1-AG	G-0C020486-001	XX I 23 CM 01	Y-D	_____	ST21-B91
LV8K9-1-AG	G-0C030439-002	XX I 23 CM 01	Y-D	_____	ST13-MW93
LV8LH-1-AG	G-0C030439-003	XX I 23 CM 01	Y-D	_____	ST13-EB01-030110
LWAHA-1-AG	G-0C040516-002	XX I 23 CM 01	Y-D	_____	VP30-B22
LWCPM-1-AG	G-0C050497-002	XX I 23 CM 01	Y-D	_____	ST13-B14
LWCPQ-1-AG	G-0C050497-003	XX I 23 CM 01	Y-D	_____	ST13-B64
LWK8H-1-AA	G-0C120000-211-B	XX I 23 CM 01		_____	INTRA-LAB BLANK
LWK8H-1-AC	G-0C120000-211-C	XX I 23 CM 01		_____	INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

(90-110)

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0071211**

Date 3/12/2010
Time 12:19:23

Method Code: **Nitrate-Nitrite**
Analyst: **Jeffery Rogers**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
LV7HM-1-AA	0.8727	mg/L	0.05	03/11/10	.00	N		0.87	0.050	1.00
LV7W3-1-AG	0.687	mg/L	0.05	03/11/10	.00	N		0.69	0.050	1.00
LV8K9-1-AG	1.376	mg/L	0.05	03/11/10	.00	N		1.4	0.050	1.00
LV8LH-1-AG	0.0308	mg/L	0.05	03/11/10	.00	N		0.031 B	0.050	1.00
LWAHA-1-AG	0.0429	mg/L	0.05	03/11/10	.00	N		0.043 B	0.050	1.00
LWCPM-1-AG	0.0138	mg/L	0.05	03/11/10	.00	N		0.014 B	0.050	1.00
LWCPQ-1-AG	0.1254	mg/L	0.05	03/11/10	.00	N		0.13	0.050	1.00
LWK8H-1-AA	ND	mg/L	0.05	03/11/10	.00			ND	0.05	1.00

Notes:
B Estimated result. Result is less than RL.

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
LWK8H-1-AC		1.0	0.9871	98.71	03/11/10	(90-110)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil.
LV7HM-1-AD		0.8727	1.0	1.844	1.784	97.13	91.13	3.30	03/11/10	1.00

Notes:

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

North Canton

TestAmerica West Sacramento

NITROCELLULOSE

(SOP # WS-WC-0050, Rev 3.0)

ANALYST CLH
CHECKED BY
BATCH NO. 0068158

DATE 03/11/10 16:45
DATE 3/12/10
INST - FS4

METHOD NO. EPA 353.2
PROJECT NO.
SOLIDS MDL - 0.78 mg/kg RL - 5.0 mg/kg
AQUEOUS MDL - 0.12 mg/L RL - 0.5 mg/L

FILE 031110A

	Lab ID	Time	Standard Conc. mg/L	Cup #	Sample Aliquot gram	Sample Aliquot mL	Extract Volume mL	Dilution	Height	$NO_3 + NO_2$ Raw Result	Nitrocellulose mg/L	Nitrocellulose ug/g	Nitrocellulose Recovery	Nitrocellulose Check
											Slope = 1.1704E+05			
											Intercept = -1.0462E+03			
											Correlation = 0.999693			
											%Nitrocellulose Assay = 0.118			
1	Cal 0	15:20	0	0					-125	0.008000				
2	Cal 1	15:22	0.05	102					5589	0.057000				
3	Cal 2	15:24	0.2	103					23360	0.209000				
4	Cal 3	15:26	0.4	104					45182	0.395000				
5	Cal 4	15:28	1	105					111778	0.964000				
6	Cal 5	15:30	2	106					235152	2.018000				
7	Blank	15:32		0				1	-18	0.009000				
8	ICV	15:34	1	107				1	114485	0.987000			98.7%	
9	MRL 0.05PPM	15:36	0.05	102				1	5409	0.055000			110.3%	
10	NO2 1PPM	15:38	1	108				1	106847	0.922000			92.2%	
11	NO3 1PPM	15:40	1	109				1	123496	1.064000			106.4%	
12	Blank	15:42		0				1	-85	0.008000				
13	Baseline	15:44		0				1	0	0.009000				
14	MB 0068158	15:46		201	10		40	1	1768	0.024000		0.82		
15	LCS 0068158	15:48	50.9	202	10		40	1	123888	1.067000		36.20	71.1%	
16	A0C030547-1	15:50		203	10.04		40	1	1721	0.024000		0.80		
17	A0C030547-1S	15:52	50.9	204	10		40	1	73911	0.640000		21.70	42.6%	
18	A0C030547-1D	15:54	50.75	205	10.03		40	1	51275	0.447000		15.10	29.8%	
19	A0C030547-2	15:56		206	10		40	1	2643	0.032000		1.07		
20	A0C030547-17	15:58		207	10.04		40	1	1700	0.023000		0.79		
21	A0C030547-23	16:00		208	10.12		40	1	1480	0.022000		0.72		
22	A0C030547-24	16:02		209	10.07		40	1	1247	0.020000		0.66		
23	A0C040510-2	16:04		210	10		40	1	1303	0.020000		0.68		
24	MRL 0.05PPM	16:06	0.05	102				1	6000	0.060000			120.4%	
25	CCV Cal 4	16:08	1	105				1	118956	1.025000			102.5%	
26	Blank	16:10		0				1	-155	0.008000				
27	Baseline	16:12		0				1	0	0.009000				
28	A0C050520-2	16:14		211	10.02		40	1	1208	0.019000		0.65		
29	G0C020446-3	16:16		212				1	101103	0.873000				
30	G0C020446-3S	16:18		213				1	214818	1.844000				
31	G0C020446-3D	16:20		214				1	207708	1.784000				
32	G0C020486-1	16:22		215				1	79384	0.687000				
33	G0C030439-2	16:24		216				1	160041	1.376000				
34	G0C030439-3	16:26		217				1	2553	0.031000				
35	G0C040516-2	16:28		218				1	3974	0.043000				
36	G0C050497-2	16:30		219				1	573	0.014000				

Nitrocellulose = (NO3 + NO2) * Prep Factor / 0.111

1587

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

General Chemistry Standards and Reagent Usage Log

Test: Nitrate+Nitrite Analysis
Method: EPA 353.2

SOP ID: SAC-WC-0036 (Nitrate+Nitrite)
WS-WC-0050 (Nitrocellulose)

Batch ID: 0068158, 0071211
File ID: 031110A

Instrument ID: FS4 Alpkem

Standards

Source Standards	Tracking ID	Exp Date
Calibration		
NO3 (1000 mg/L, as N)	3745-WC-2-7	6.9.10
NO2 (1000 mg/L, as N)	3745-WC-2-2	6.4.10
Reference		
NO3 (1000 mg/L, as N)	3745-WC-29-1	9.30.10
NO2 (1000 mg/L, as N)	3745-WC-34-10	10.12.10

Monthly Intermediate Calibration Standard

	Conc (mg/L, as N)	Tracking ID	Exp Date
NO3+NO2	100	3872-WC-15-1	4.11.10

Monthly Working Standards

	Conc (mg/L, as N)	Tracking ID	Exp Date
S1	0.05	3872-WC-15-2	4.11.10
S2	0.2	3872-WC-15-3	
S3	0.4	3872-WC-15-4	
S4	1	3872-WC-15-5	
S5	2	3872-WC-15-6	
ICV	1	3872-WC-15-7	
NO2	1	3872-WC-15-8	
NO3	1	3872-WC-15-9	

Reagents

Reagent	Tracking ID	Exp Date
Color Reagent	3755-WC-21-5	4.25.10
Buffer	3755-WC-29-2	3.10.11

All tracking numbers and expiration dates were checked as accurate prior to reagent or standard use:

Chemist: JDR Date: 3.12.10

Peak Table:Nitrate/Nitrite

Inst - FS4
Reporting NCell + NO2L
JOR 3.12.10

File name: V:\ALPKE~_-\2010\NITRO~K%\031110A.RST
Date: 11-Mar-10
Operator: CLH

Analyst - CLH

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	105	Sync	1	SYNC	1	1	118113	1.018068	
2	0	Carryover	1	CO	1	1	306	0.011551	
B	0	Baseline	1	RB	1	1	0	0.008936	BL
4	0	Cal 0	1	C	1	1	-125	0.007869	
5	102	Cal 1	1	C	1	1	5589	0.056690	
6	103	Cal 2	1	C	1	1	23360	0.208521	
7	104	Cal 3	1	C	1	1	45182	0.394960	
8	105	Cal 4	1	C	1	1	111778	0.963943	
9	106	Cal 5	1	C	1	1	235152	2.018017	HI
10	0	Blank	1	BLNK	1	1	-18	0.008779	
11	107	ICV	1	U	1	1	114485	0.987071	99%
12	102	MRL 0.05PPM	1	U	1	1	5409	0.055150	
13	108	NO2 1PPM	1	U	1	1	106847	0.921812	
14	109	NO3 1PPM	1	U	1	1	123496	1.064056	
15	0	Blank	1	BLNK	1	1	-85	0.008213	(ND)
B	0	Baseline	1	RB	1	1	0	0.008936	BL
17	201	MB 0068158	1	U	1	1	1768	0.024041	
18	202	LCS 0068158	1	U	1	1	123888	1.067407	
19	203	A0C030547-1	1	U	1	1	1721	0.023644	
20	204	A0C030547-1S	1	U	1	1	73911	0.640413	
21	205	A0C030547-1D	1	U	1	1	51275	0.447014	
22	206	A0C030547-2	1	U	1	1	2643	0.031519	
23	207	A0C030547-17	1	U	1	1	1700	0.023463	
24	208	A0C030547-23	1	U	1	1	1480	0.021578	
25	209	A0C030547-24	1	U	1	1	1247	0.019588	
26	210	A0C040510-2	1	U	1	1	1303	0.020065	
27	102	MRL 0.05PPM	1	U	1	1	6000	0.060200	
28	105	CCV Cal 4	1	CCV	1	1	118956	1.025264	102%
29	0	Blank	1	BLNK	1	1	-155	0.007616	(ND)
B	0	Baseline	1	RB	1	1	0	0.008936	BL
31	211	A0C050520-2	1	U	1	1	1208	0.019260	
32	212	G0C020446-3	1	U	1	1	101103	0.872734	
33	213	G0C020446-3S	1	U	1	1	214818	1.844292	97%
34	214	G0C020446-3D	1	U	1	1	207708	1.783540	91%
35	215	G0C020486-1	1	U	1	1	79384	0.687171	
36	216	G0C030439-2	1	U	1	1	160041	1.376292	
37	217	G0C030439-3	1	U	1	1	2553	0.030751	
38	218	G0C040516-2	1	U	1	1	3974	0.042893	
39	219	G0C050497-2	1	U	1	1	573	0.013833	
40	220	G0C050497-3	1	U	1	1	13627	0.125359	
41	102	MRL 0.05PPM	1	U	1	1	6004	0.060230	
42	105	CCV Cal 4	1	CCV	1	1	118836	1.024240	102%
43	0	Blank	1	BLNK	1	1	-120	0.007910	(ND)
B	0	Baseline	1	RB	1	1	0	0.008936	BL

Cup	Name	S	1:Time	1:Value	1:S
0	Carryover	C	15:16:06	0.01	[C]
0	Baseline	C	15:18:06	0.01	[C]
0	Cal 0	C	15:20:06	0.01	[C]
102	Cal 1	C	15:22:06	0.06	[C]
103	Cal 2	C	15:24:07	0.21	[C]
104	Cal 3	C	15:26:07	0.39	[C]
105	Cal 4	C	15:28:07	0.96	[C]
106	Cal 5	C	15:30:07	2.02	[C]
0	Blank	C	15:32:07	0.01	[C]
107	ICV	-	15:34:08	0.99	[-]
102	MRL 0.05PPM	-	15:36:08	0.06	[-]
108	NO2 1PPM	-	15:38:08	0.92	[-]
109	NO3 1PPM	-	15:40:08	1.06	[-]
0	Blank	C	15:42:08	0.01	[C]
0	Baseline	C	15:44:09	0.01	[C]
201	MB 0068158	-	15:46:09	0.02	[-]
202	LCS 0068158	-	15:48:09	1.07	[-]
203	A0C030547-1	-	15:50:09	0.02	[-]
204	A0C030547-1S	-	15:52:09	0.64	[-]
205	A0C030547-1D	-	15:54:09	0.45	[-]
206	A0C030547-2	-	15:56:10	0.03	[-]
207	A0C030547-17	-	15:58:10	0.02	[-]
208	A0C030547-23	-	16:00:10	0.02	[-]
209	A0C030547-24	-	16:02:10	0.02	[-]
210	A0C040510-2	-	16:04:10	0.02	[-]
102	MRL 0.05PPM	-	16:06:11	0.06	[-]
105	CCV Cal 4	C	16:08:11	1.03	[C]
0	Blank	C	16:10:11	0.01	[C]
0	Baseline	C	16:12:11	0.01	[C]
211	A0C050520-2	-	16:14:11	0.02	[-]
212	G0C020446-3	-	16:16:11	0.87	[-]
213	G0C020446-3S	-	16:18:12	1.84	[-]
214	G0C020446-3D	-	16:20:12	1.78	[-]
215	G0C020486-1	-	16:22:12	0.69	[-]
216	G0C030439-2	-	16:24:12	1.38	[-]
217	G0C030439-3	-	16:26:12	0.03	[-]
218	G0C040516-2	-	16:28:13	0.04	[-]
219	G0C050497-2	-	16:30:13	0.01	[-]
220	G0C050497-3	-	16:32:13	0.13	[-]
102	MRL 0.05PPM	-	16:34:13	0.06	[-]
105	CCV Cal 4	C	16:36:13	1.02	[C]
0	Blank	C	16:38:13	0.01	[C]
0	Baseline	C	16:40:14	0.01	[C]

Nitrate/Nitrite:Calibration 1: Peak 4-44

File name: V:\ALPKE~_-\2010\NITRO~K%\031110A.RST
Date: 11-Mar-10
Operator: CLH

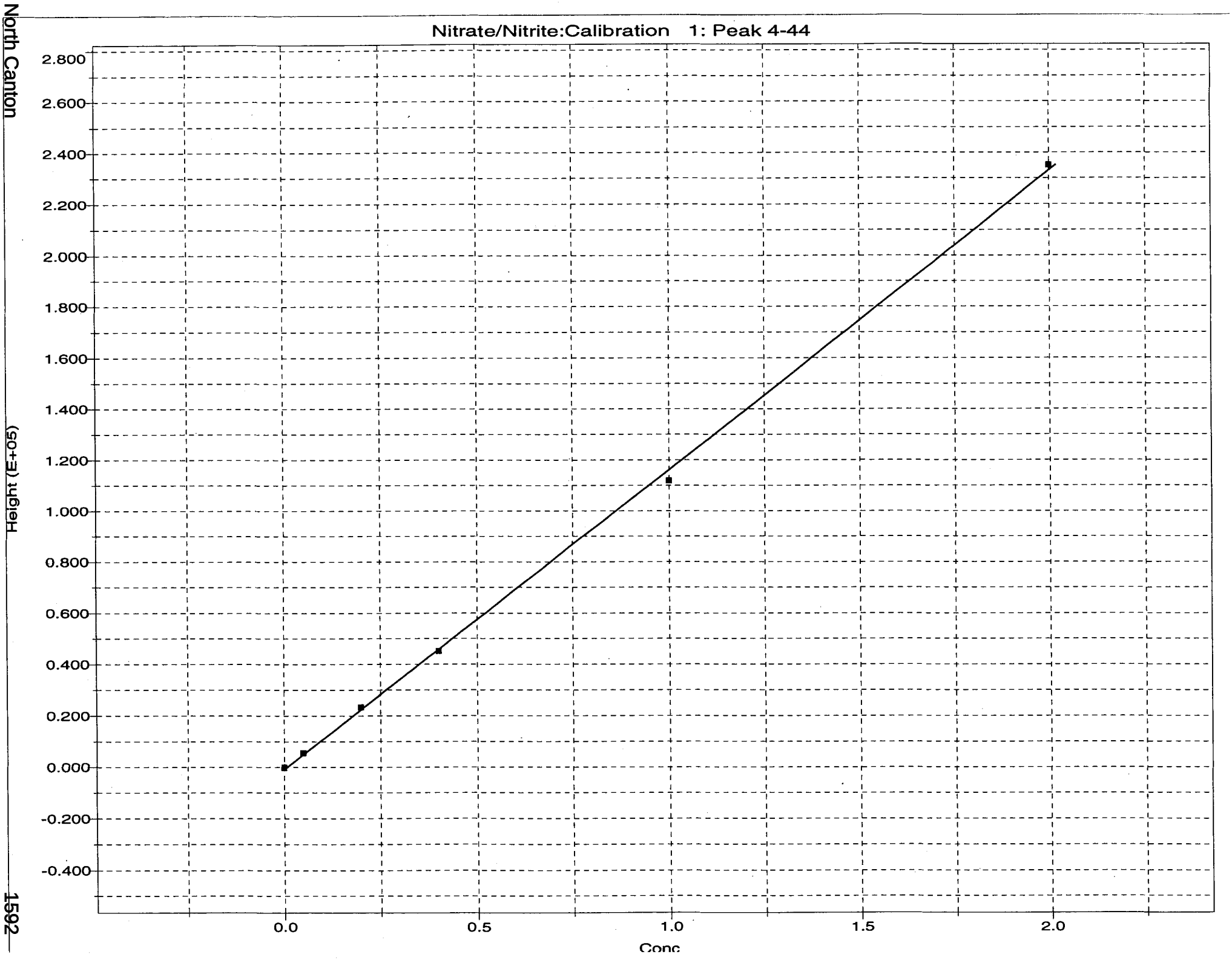
*	Name	Conc	Height
*	Cal 0	0.000000	-124.902649
*	Cal 1	0.050000	5589.354492
*	Cal 2	0.200000	23360.337891
*	Cal 3	0.400000	45182.031250
*	Cal 4	1.000000	111778.367188
*	Cal 5	2.000000	235151.921875

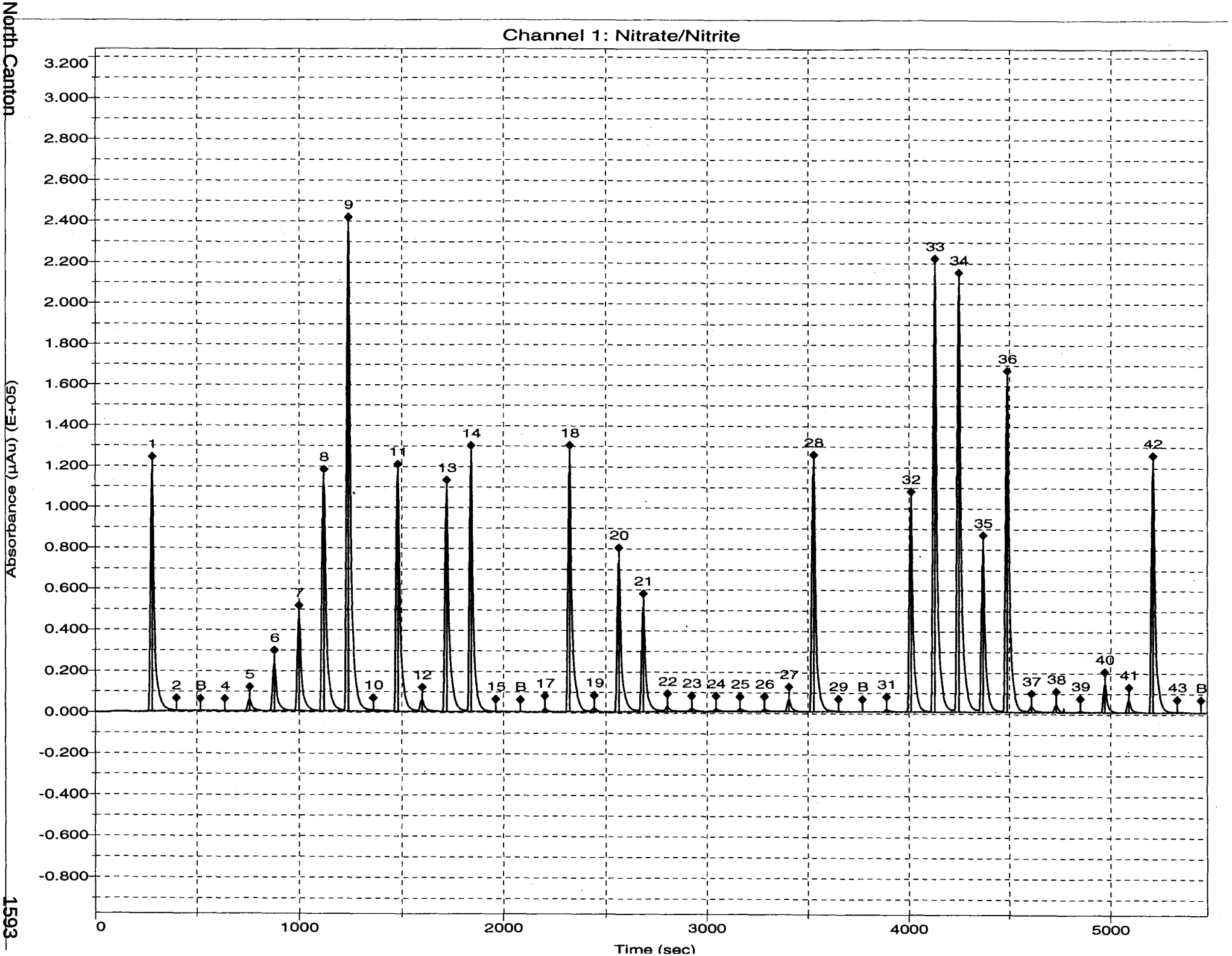
Calib Coef:
y=bx+a
a: (intercept) -1.0459e+03
b: 1.1704e+05

Corr Coef: 0.999693

Carryover: 0.259%

No Drift Peaks


Nitrate/Nitrite:Calibration 1: Peak 4-44
North Canton
Height (E+05)
2.800
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
0.0
0.5
1.0
1.5
2.0
Conc
1592


Channel 1: Nitrate/Nitrite
North Canton
1593
Absorbance (µAu) (E+05)
Time (sec)
3.200
3.000
2.800
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
-0.600
-0.800
0
1000
2000
3000
4000
5000
1
2
B
4
5
6
7
8
9
10
11
12
13
14
15
B
17
18
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24
25
26
27
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29
B
31
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34
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37
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39
40
41
42
43
B

Sample Preparation Logs

North Canton

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento
Nitrocellulose Extraction Sheet

Holding Time Due: 3-23-10/3-29-10/3-30-10 | Project Due: 3-12-10 | Analysis Date: _____

BATCH #: 0068158 | Initiated By: HD | Date: 3-9-10

MATRIX: (SOLID) / AQ / OTHER: _____ | Hydrolyzed By: HD | Date/Time: 3/10/10 started: 07:30 – Finished 09:00

QC Code	Lot #	Sample #	Sample Size (g or mL)	Final Volume (mL)	pH Adjusted to 6-8
B	MB		10.00	40	(Y) / N
C	LCS		10.00	40	(Y) / N
	AOC030547	01	10.04	40	(Y) / N
S	↓	1MS	10.00	40	(Y) / N
D		1MSD	10.03	40	(Y) / N
		02	10.00	40	(Y) / N
		17	10.04	40	(Y) / N
		23	10.12	40	(Y) / N
	▽	24	10.07	40	(Y) / N
	AOC040510	02	10.00	40	(Y) / N
	AOC050520	02	10.02	40	(Y) / N
					Y / N
					Y / N
	3/10/10 HA				Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N

SOP No.: WS-WC-0050

EXTRACTION COMMENTS:

* millipore water dispensed 3/9/10

QC Codes	Standard Information			
	Volume	STD ID	Conc'n (µg/mL)	Exp. Date
C,S,D	1.0ml	E091016A	509	4-16-10

Spiked By: HD 3/9/10 Witnessed By: 3.9.10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/10/10
Time: 10:15:56

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets
					computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 000915 Horacio J. Arauz

Concentrationist: 000915 Horacio J. Arauz

QC BATCH: 0068158

PREP DATE: 3/09/10 9:32
COMP DATE: 3/10/10 9:10

Reviewer/Date: ARAUZH / 3/09/10

Nitrocellulose as N by 353.2
EXTRACTION, SOLID/SOLVENT (Manual)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/28/10	3/24/10	A0C030547-001 0068096 **LV9DA-1-CA**	D	76	WA	SOLID	**10.04g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/28/10	3/24/10	A0C030547-001 0068096 **LV9DA-1-CJS**	D	76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	1.0ML-E091016A NA
COMMENTS:															
3/28/10	3/24/10	A0C030547-001 0068096 **LV9DA-1-CKD**	D	76	WA	SOLID	**10.03g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	1.0ML-E091016A NA
COMMENTS:															
3/28/10	3/24/10	A0C030547-002 0068096 **LV9DF-1-CA**	D	76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/27/10	3/24/10	A0C030547-017 0068096 **LV9KA-1-CA**	D	76	WA	SOLID	**10.04g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/28/10	3/24/10	A0C030547-023 0068096 **LV9KH-1-CA**	D	76	WA	SOLID	**10.12g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/28/10	3/24/10	A0C030547-024 0068096 **LV9KJ-1-CA**	D	76	WA	SOLID	**10.07g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/10/10
Time: 10:15:56

QC BATCH: 0068158

PREP DATE: 3/09/10 9:32
COMP DATE: 3/10/10 9:10

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/29/10	3/12/10	A0C040510-002 0068096 **LWAE6-1-AE**	DR	76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/23/10	3/26/10	A0C050520-002 0068096 **LWCWJ-1-CA**	D	76	WA	SOLID	**10.02g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/28/10	0/00/00	G0C090000-158 **LWFAJ-1-AAB**		76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/28/10	0/00/00	G0C090000-158 **LWFAJ-1-ACC**		76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	1.0ML-E091016A NA
COMMENTS:															

MEOH/H2O 3844-005C; J.T.BAKER ACETONE H29E40; 50ML-CENTRIFUGE TUBE MG-SCIENTIF 9190362; SODIUM HYDROXIDE (1N)RICCA 1808597;SULFURIC ACID (2N)RICCA 1904287 .45 FILTER MILLIPORE R9HN15546.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Test Batch Record

Preparation Data Review Checklist

Prep Batch(es) 0068155 Test: NCell_S

Prep Date: 3-9-10 Holding Times: 3-23-10 / 3-24-10 / 3-30-10 NCM: Y N

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate		
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)		
3. Amount of samples in hood match amount of samples on bench sheet Sample IDS match.		NA
4. Worksheets have been checked for required spiking compounds		
5. Spiking volumes are correctly documented		
6. Std ID numbers on spike labels match numbers on bench sheet		NA
7. Expiration dates have been checked		
8. Calibration expiration dates on pipettors have been checked		NA
9. Spiker and spike witness have signed and dated bench sheet		
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: _____ Date: 3-9-10

2nd Level Reviewer: _____ Date: 3/10/10

Comments:

North Canton

TestAmerica Laboratories, Inc.

SAMPLE ANALYSIS REQUISTION

Laboratory **TestAmerica West Sacramento**
880 Riverside Parkway
West Sacramento, CA 95605

Lab Request SR118190

Report Package: **Expanded Deliverables**
Need Analytical Report 2010-03-26

Client Code: 366660

Project Manager: MARK LOEB

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0C050520-1	LWCWH	ATASB-006-5130-SO 1x100	2010-02-24 11:35	SOLID, 8330B, Explosives (/W 8330B prep)
A0C050520-2	LWCWJ	LL6SB-069-5222-SO	2010-02-24 15:09	SOLID, 8330B, Explosives (/W 8330B prep)
A0C050520-2	LWCWJ	LL6SB-069-5222-SO 1x100 1x60	2010-02-24 15:09	SOLID, 8330M, Nitroguanidine Propellant
A0C050520-2	LWCWJ	LL6SB-069-5222-SO	2010-02-24 15:09	SOLID, 353.2, Nitrocellulose Propellant

* Please watch hold times.

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 3/5/10 1600

Relinquished by: _____ Date/Time: _____

Received for lab by: _____ Date/Time: 3-6-10 1200

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

1599

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT TAC - North Canton PM KD LOG # 67602

LOT# (QUANTIMS ID) A0C050520 QUOTE# NA LOCATION W13B

Checked (✓)

DATE RECEIVED 3-6-10 TIME RECEIVED 920 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT

☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER

☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) Seal

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☑

COC #(S) NA ☑

TEMPERATURE BLANK Observed: 3 Corrected: 4

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 2.2.2 Average 2 Corrected Average 2

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☐ #5 ☑ ☐ OTHER _____ ☑

Initials: CN Date: 3-6-10

==========

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY..... ☑

LABELS CHECKED BY..... ☑

PEER REVIEW _____ ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A ☑

☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Initials: CN Date: 3-6-10

Notes _____

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 172819.00.09456.00.9200.02.200

RVAAP PBA2008 17 AOCs RI

Lot #: A0B250493

CONTRACT NO: W912QR-04-D-0028

DELIVERY ORDER: 0001

Marie Simpson

SAIC
151 LaFayette Drive
PO Box 2502
Oak Ridge, TN 37831

TESTAMERICA LABORATORIES, INC.

Unless noted otherwise, the test results reported herein meet all requirements of NELAC and the current version of the DoD QSM.

Approved for release.
Mark J. Loeb
Project Manager II
3/12/2010 9:58 AM

Mark J. Loeb
Project Manager
mark.loeb@testamericainc.com

March 11, 2010

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0B250493

The following report contains the analytical results for five solid samples submitted to TestAmerica North Canton by SAIC from the RVAAP PBA2008 17 AOCS RI Site, project number 172819.00.09456.00.9200.02.200. The samples were received February 25, 2010, according to documented sample acceptance procedures.

The Explosives and Propellant analysis were performed at the TestAmerica West Sacramento Laboratory. Refer to the narrative provided in the West Sacramento package.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Jenny Vance, Richard Sprinzl, Heather Miller, and Marie Simpson on March 05, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Mark J. Loeb, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 0.8 and 1.2°C.

NITROAROMATICS AND NITRAMINES-8330

The analytical results met the requirements of the laboratory's QA/QC program.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0B250493

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-006-5129-SO 02/24/10 11:20 001				
Percent Solids	94.4	10.0	%	MCAWW 160.3 MOD
ATASB-008-5135-SO 02/24/10 12:50 002				
Percent Solids	94.1	10.0	%	MCAWW 160.3 MOD
ATASB-009-5139-SO 02/24/10 13:55 003				
Percent Solids	90.2	10.0	%	MCAWW 160.3 MOD
ATASB-010-5143-SO 02/24/10 09:23 004				
Percent Solids	85.5	10.0	%	MCAWW 160.3 MOD
ATASB-011-5147-SO 02/24/10 10:45 005				
Percent Solids	85.6	10.0	%	MCAWW 160.3 MOD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0B250493

PARAMETER	ANALYTICAL METHOD
Nitroaromatics and Nitramines by HPLC	SW846 8330B
Nitrocellulose as N, 353.2	MCAWW 353.2
Organics by UV/HPLC	SW846 8330 (Modified)
Total Residue as Percent Solids	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE SUMMARY

SAMPLE SUMMARY

A0B250493

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LV3RP	001	ATASB-006-5129-SO	02/24/10	11:20
LV3R5	002	ATASB-008-5135-SO	02/24/10	12:50
LV3R7	003	ATASB-009-5139-SO	02/24/10	13:55
LV3R9	004	ATASB-010-5143-SO	02/24/10	09:23
LV3TC	005	ATASB-011-5147-SO	02/24/10	10:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SHIPPING AND RECEIVING DOCUMENTS

SAIC
From Science to Solutions
151 Lafayette Drive, Oak Ridge, TN 37831
(865) 481-4600

Chain of Custody Record

Science Applications International Corporation

COC NO.: RVAAP-PBA08RI-017
Date: 2/25/2010

PROJECT NAME: RVAAP PBA2008 17 AOCs RI
PO NUMBER: PO10025302
PROJECT NUMBER: 172819.00.09456.00.9200.02.200
PROJECT MANAGER: Kevin Jago
AOC: Anchor Test Area (Subsurface Soil)

Sampler (Signature): RSprinzl (Printed Name): RichSprinzl

Laboratory Name: TestAmerica
Address: 4101 Shuffel Street NW, North Canton, Ohio 44720
Attn: Mark Loeb
Phone: 330-966-9387

Sample ID	Station ID	Depth (ft)	Date Collected	Time Collected	Matrix	Requested Parameters: TAL Metals + Hg 1	Explosives 2	SVOCs 3	Propellants 4	VOCs 5	Pesticides 6	PCBs 7	PAHs 8	Asbestos 9	Porosity 10	Bulk Density 11	Moisture content 12	Total organic carbon 13	grain size fraction analysis 14	permeability, K (undisturbed) 15	No. of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
ATASB-006-5127-SO	ATAsb-006	0-1	2/24/2010	1053	SO	X	X														2	
ATASB-006-6080-FD	ATAsb-006	0-1	2/24/2010	1053	SO	X	X														2	
ATASB-006-5128-SO	ATAsb-006	1-4	2/24/2010	1115	SO	X	X														2	
ATASB-006-5129-SO	ATAsb-006	4-7	2/24/2010	1120	SO	X	X														2	**RUSH 5 day TAT**
ATASB-008-5133-SO	ATAsb-008	0-1	2/24/2010	1230	SO	X	X	X	X	X	X	X									4	
ATASB-008-5134-SO	ATAsb-008	1-4	2/24/2010	1245	SO	X	X	X	X	X	X	X									4	
ATASB-008-5135-SO	ATAsb-008	4-7	2/24/2010	1250	SO	X	X	X	X	X	X	X									4	**RUSH 5 day TAT**
ATASB-009-5137-SO	ATAsb-009	0-1	2/24/2010	1325	SO	X	X														2	
ATASB-009-5138-SO	ATAsb-009	1-4	2/24/2010	1350	SO	X	X														2	
ATASB-009-5139-SO	ATAsb-009	4-7	2/24/2010	1355	SO	X	X														2	**RUSH 5 day TAT**
ATASB-009-6081-FD	ATAsb-009	4-7	2/24/2010	1355	SO	X	X														2	
ATASB-010-5141-SO	ATAsb-010	0-1	2/24/2010	0822	SO	X	X														4	**MS/MSD**
ATASB-010-5142-SO	ATAsb-010	1-4	2/24/2010	0900	SO	X	X														2	
ATASB-010-5143-SO	ATAsb-010	4-7	2/24/2010	0923	SO	X	X														2	**RUSH 5 day TAT**
ATASB-011-5145-SO	ATAsb-011	0-1	2/24/2010	1000	SO	X	X														2	
ATASB-011-5146-SO	ATAsb-011	1-4	2/24/2010	1024	SO	X	X														2	
ATASB-011-5147-SO	ATAsb-011	4-7	2/24/2010	1045	SO	X	X														2	**RUSH 5 day TAT**

Total Number of Containers: 42
Cooler Temperature:
Cooler ID: 1 COOLER +2 BOXES
FEDEX NUMBER: NA

Signature: RSprinzl	Date: 2/25/10	Received by: Lance Hushman	Date: 2-25-10
Printed Name: RichSprinzl	Time: 0930	Signature: LANCE HERSHMAN	Time: 10:20
Company: SAIC		Printed Name: TAN CANTON	
Relinquished by: Lance Hushman	Date: 2/25/10	Company	Date: 25 FEB 2010
Signature: LANCE HERSHMAN	Time: 11:15	Received by: Matthew-Jones MA FERREL	Time: 1115
Printed Name: TAN CANTON		Printed Name: TEST AMERICA	
Company		Company	

1 6020/7471A
2 8330B
3 3540C/3541/8270C
4 Nitroguanidine:8330 Mod/8332 Mod; Nitrocellulose:9056 Mod/353.2
5 8260B/5021
6 3540C/3541C/8081A
7 3540C/3541C/8082
8 8270C (low level PAHs)
9 600/R-93/116
10 USACE EM1110-2-1906 App II
11 ASTM D5057
12 ASTM D2216
13 EPA 415.1 Mod or SW-846, 9060A Mod or Walkley-Black
14 ASTM D422
15 ASTM D5084/2434

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 440B250493
North Canton Facility

Client SAIC Project RVAAP By: Matthew Jerrel
Cooler Received on 25 FEB 2010 Opened on 25 FEB 2010 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # BACK Multiple Coolers ☒ Foam Box ☐ Client Cooler ☒ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 4 Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other PLASTIC BAG
6. Cooler temperature upon receipt BACK °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 121709-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
177	1.2	IR	WET ICE
184	0.8		

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GENERAL CHEMISTRY DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-006-5129-SO

General Chemistry

Lot-Sample #...: A0B250493-001 **Work Order #...:** LV3RP **Matrix.....:** SO
Date Sampled...: 02/24/10 11:20 **Date Received..:** 02/25/10
% Moisture.....: 5.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**94.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0061054**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

General Chemistry

Lot-Sample #...: A0B250493-002 **Work Order #...:** LV3R5 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
% Moisture.....: 5.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.3	mg/kg	MCAWW 353.2	02/26-03/01/10	0057293
		Dilution Factor: 1		MDL.....: 0.83		
Percent Solids	**94.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0061054**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASB-009-5139-SO

General Chemistry

Lot-Sample #...: A0B250493-003 **Work Order #...:** LV3R7 **Matrix.....:** SO
Date Sampled...: 02/24/10 13:55 **Date Received..:** 02/25/10
% Moisture.....: 9.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**90.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0061054**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-010-5143-SO

General Chemistry

Lot-Sample #...: A0B250493-004 **Work Order #...:** LV3R9 **Matrix.....:** SO
Date Sampled...: 02/24/10 09:23 **Date Received..:** 02/25/10
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0061054**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-011-5147-SO

General Chemistry

Lot-Sample #...: A0B250493-005 **Work Order #...:** LV3TC **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0061054**

Dilution Factor: 1 MDL.....: 10.0

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0B250493 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LV5R91AA		MB Lot-Sample #:	G0B260000-293	
	ND	5.0	mg/kg	MCAWW 353.2	02/26-03/01/10	0057293
		Dilution Factor: 1				
Percent Solids		Work Order #: LV6421AA		MB Lot-Sample #:	A0C020000-054	
	ND	10.0	%	MCAWW 160.3 MOD	02/25-02/26/10	0061054
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250493 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LV5R91AC	LCS Lot-Sample#: G0B260000-293		
	68	(34 - 115)	MCAWW 353.2	02/26-03/01/10	0057293
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B250493 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	Work Order #: LV5R91AC LCS Lot-Sample#: G0B260000-293						
	50.9	34.7	mg/kg	68	MCAWW 353.2	02/26-03/01/10	0057293
	Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250493 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#: LV3R51AF-MS/LV3R51AG-MSD				MS Lot-Sample #: A0B250493-002	
	43	(34 - 115)			MCAWW 353.2	02/26-03/01/10	0057293
	45	(34 - 115)	5.2	(0-71)	MCAWW 353.2	02/26-03/01/10	0057293

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B250493 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LV3R51AF-MS/LV3R51AG-MSD				MS Lot-Sample #: A0B250493-002		
	ND	53.9	23.7	mg/kg	43		MCAWW 353.2	02/26-03/01/10	0057293
	ND	53.5	25.0	mg/kg	45	5.2	MCAWW 353.2	02/26-03/01/10	0057293

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250493 **Work Order #...:** LV030-SMP **Matrix.....:** SOLID
LV030-DUP
Date Sampled...: 02/22/10 13:35 **Date Received..:** 02/23/10
% Moisture.....: 24

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B230467-002		
	75.7	74.8	%	1.3	(0-20)	MCAWW 160.3 MOD	02/25-02/26/10	0056243

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250493 **Work Order #...:** LV3J1-SMP **Matrix.....:** SOLID
LV3J1-DUP
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250453-005		
	85.6	86.8	%	1.4	(0-20)	MCAWW 160.3 MOD	02/25-02/26/10	0056243

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SUPPORTIVE RAW DATA

			TestAmerica, North Canton					
		Percent Total Solid/Percent Moisture Logsheet						
		Method 160.3, 160.5, D2216-90, D1553-83						
Analysis	TS			Batch		56243		
						61054		
Prep Date	2/25/2010	Time In	15:04	Analyst	TH	WETCHEMNC		
					SS			
Anal date	2/26/2010	Time Out	7:00	RL	10			
Oven	**2**	Balance	**6**	Due Date:	**3/4/2010**			
Sample	Tare	Wet	Dry	Result TS	Result MS	Time	comments	
ID	wt	wt	wt	%	%			
BLANK	4.586	4.5059	4.4970	2.67	ND	9:50		
LV3H61AA	**4.586**	**15.8376**	**15.2052**	**94.379**	**5.621**	**9:50**	**LV3RP--REF**	
LV3JM1AA	**4.586**	**17.1091**	**16.3725**	**94.118**	**5.882**	**9:51**	**LV3R5--REF**	
LV3JV1AG	**4.586**	**9.3202**	**8.8567**	**90.210**	**9.790**	**9:51**	**LV3R7--REF**	
LV3JW1AG	**4.586**	**10.8337**	**9.9252**	**85.459**	**14.541**	**9:51**	**LV3R9--REF**	
LV3J11AG	**4.586**	**7.6799**	**7.2329**	**85.552**	**14.448**	**9:51**	**LV3TC--REF**	
LV3J11A5 X	4.586	7.8795	7.4443	86.786	13.214	9:52		
LVWX01AA	4.586	13.2990	8.7601	47.907	52.093	9:52		
LVWX11AA	4.586	13.4617	11.9084	82.499	17.501	9:52		
LVWX81AA	4.586	15.9455	12.0438	65.653	34.347	9:52		
LV03V1AA	4.586	15.8041	13.7711	81.878	18.122	9:52		
LV0301DU X	4.586	10.2427	8.8156	74.772	25.228	9:53		
LV0301AA	4.586	10.2511	8.8765	75.736	24.264	9:53		
LV0311AE	4.586	10.1422	8.9864	79.198	20.802	9:53		
LV0341AL	4.586	11.4292	10.0678	80.106	19.894	9:53		
LV0351AT	4.586	9.6701	8.6076	79.102	20.898	9:53		
LV0361AT	4.586	11.7362	10.6425	84.704	15.296	9:54		
LV0381AA	4.586	11.2699	9.6085	75.143	24.857	9:54		
LV04A1AA	4.586	12.0791	10.5527	79.629	20.371	9:54		
	4.586			100.000	0.000			
	4.586			100.000	0.000			
	4.586			100.000	0.000			
	4.586			100.000	0.000			
	4.5499			100.000	0.000			
	4.5499			100.000	0.000			
	4.5499			100.000	0.000			
	4.5499			100.000	0.000			

						LV3WA1AA	

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0B250493	1		LV3RP1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Jill Burns	02/26/10	Samantha Scott
A0B250493	2		LV3R51AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Jill Burns	02/26/10	Samantha Scott
A0B250493	3		LV3R71AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Jill Burns	02/26/10	Samantha Scott
A0B250493	4		LV3R91AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Jill Burns	02/26/10	Samantha Scott
A0B250493	5		LV3TC1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	02/25/10	Jill Burns	02/26/10	Samantha Scott

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

WEST SACRAMENTO DATA

Case Narrative

TestAmerica West Sacramento Project Number A0B250493

General Comments

Manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: S-Q-004, including Addendum 1. Many samples required manual integration. Detailed information can be found in the Manual Integration Addendum section of this report.

There were no other anomalies associated with this project.

Science Applications International Corp

Client Sample ID: ATASB-006-5129-SO

HPLC

Lot-Sample #...: A0B250493-001 **Work Order #...:** LV3RP1AC **Matrix.....:** SO
Date Sampled...: 02/24/10 11:20 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 0.98
% Moisture.....: 5.6 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.24	mg/kg	0.0098
2-Amino-4,6-dinitrotoluene	ND	0.24	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.24	mg/kg	0.0041
2,4-Dinitrotoluene	ND	0.24	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.24	mg/kg	0.0072
HMX	ND	0.24	mg/kg	0.012
Nitrobenzene	ND	0.24	mg/kg	0.017
Nitroglycerin	ND	0.49	mg/kg	0.015
2-Nitrotoluene	ND	0.24	mg/kg	0.013
3-Nitrotoluene	ND	0.24	mg/kg	0.015
4-Nitrotoluene	ND	0.49	mg/kg	0.018
PETN	ND	0.49	mg/kg	0.024
RDX	ND	0.24	mg/kg	0.012
Tetryl	ND	0.24	mg/kg	0.0098
1,3,5-Trinitrobenzene	ND	0.24	mg/kg	0.0098
2,4,6-Trinitrotoluene	ND	0.24	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	104	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-006-5129-SO

General Chemistry

Lot-Sample #...: A0B250493-001 **Work Order #...:** LV3RP **Matrix.....:** SO
Date Sampled...: 02/24/10 11:20 **Date Received..:** 02/25/10
% Moisture.....: 5.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**94.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0061054**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

HPLC

Lot-Sample #...: A0B250493-002 **Work Order #...:** LV3R51AD **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060207
Dilution Factor: 1
% Moisture.....: 5.9 **Method.....:** SW846 8330 (Modif

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroguanidine	ND	0.25	mg/kg	0.020

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

HPLC

Lot-Sample #...: A0B250493-002 **Work Order #...:** LV3R51AC **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 1
% Moisture.....: 5.9 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.010
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0053
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0073
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.018
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.016
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.010
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.010
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	104	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-008-5135-SO

General Chemistry

Lot-Sample #...: A0B250493-002 **Work Order #...:** LV3R5 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
% Moisture.....: 5.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.3	mg/kg	MCAWW 353.2	02/26-03/01/10	0057293
		Dilution Factor: 1		MDL.....: 0.83		
Percent Solids	**94.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0061054**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASB-009-5139-SO

HPLC

Lot-Sample #...: A0B250493-003 **Work Order #...:** LV3R71AC **Matrix.....:** SO
Date Sampled...: 02/24/10 13:55 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 0.98
% Moisture.....: 9.8 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.24	mg/kg	0.0098
2-Amino-4,6-dinitrotoluene	ND	0.24	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.24	mg/kg	0.0041
2,4-Dinitrotoluene	ND	0.24	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.24	mg/kg	0.0072
HMX	ND	0.24	mg/kg	0.012
Nitrobenzene	ND	0.24	mg/kg	0.017
Nitroglycerin	ND	0.49	mg/kg	0.015
2-Nitrotoluene	ND	0.24	mg/kg	0.013
3-Nitrotoluene	ND	0.24	mg/kg	0.015
4-Nitrotoluene	ND	0.49	mg/kg	0.018
PETN	ND	0.49	mg/kg	0.024
RDX	ND	0.24	mg/kg	0.012
Tetryl	ND	0.24	mg/kg	0.0098
1,3,5-Trinitrobenzene	ND	0.24	mg/kg	0.0098
2,4,6-Trinitrotoluene	ND	0.24	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	105	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-009-5139-SO

General Chemistry

Lot-Sample #...: A0B250493-003 **Work Order #...:** LV3R7 **Matrix.....:** SO
Date Sampled...: 02/24/10 13:55 **Date Received..:** 02/25/10
% Moisture.....: 9.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**90.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0061054**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-010-5143-SO

HPLC

Lot-Sample #...: A0B250493-004 **Work Order #...:** LV3R91AC **Matrix.....:** SO
Date Sampled...: 02/24/10 09:23 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 0.99
% Moisture.....: 15 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-010-5143-SO

General Chemistry

Lot-Sample #...: A0B250493-004 **Work Order #...:** LV3R9 **Matrix.....:** SO
Date Sampled...: 02/24/10 09:23 **Date Received..:** 02/25/10
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0061054**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-011-5147-SO

HPLC

Lot-Sample #...: A0B250493-005 **Work Order #...:** LV3TC1AC **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 0.99
% Moisture.....: 14 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	105	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-011-5147-SO DUP

HPLC

Lot-Sample #...: A0B250493-005 **Work Order #...:** LV3TC1AD **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 0.98
% Moisture.....: 14 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.24	mg/kg	0.0098
2-Amino-4,6-dinitrotoluene	ND	0.24	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.24	mg/kg	0.0041
2,4-Dinitrotoluene	ND	0.24	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.24	mg/kg	0.0072
HMX	ND	0.24	mg/kg	0.012
Nitrobenzene	ND	0.24	mg/kg	0.017
Nitroglycerin	ND	0.49	mg/kg	0.015
2-Nitrotoluene	ND	0.24	mg/kg	0.013
3-Nitrotoluene	ND	0.24	mg/kg	0.015
4-Nitrotoluene	ND	0.49	mg/kg	0.018
PETN	ND	0.49	mg/kg	0.024
RDX	ND	0.24	mg/kg	0.012
Tetryl	ND	0.24	mg/kg	0.0098
1,3,5-Trinitrobenzene	ND	0.24	mg/kg	0.0098
2,4,6-Trinitrotoluene	ND	0.24	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	105	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-011-5147-SO DUP

HPLC

Lot-Sample #...: A0B250493-005 **Work Order #...:** LV3TC1AE **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 0.97
% Moisture.....: 14 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.24	mg/kg	0.0097
2-Amino-4,6-dinitrotoluene	ND	0.24	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.24	mg/kg	0.0041
2,4-Dinitrotoluene	ND	0.24	mg/kg	0.0051
2,6-Dinitrotoluene	ND	0.24	mg/kg	0.0071
HMX	ND	0.24	mg/kg	0.012
Nitrobenzene	ND	0.24	mg/kg	0.017
Nitroglycerin	ND	0.48	mg/kg	0.015
2-Nitrotoluene	ND	0.24	mg/kg	0.013
3-Nitrotoluene	ND	0.24	mg/kg	0.015
4-Nitrotoluene	ND	0.48	mg/kg	0.018
PETN	ND	0.48	mg/kg	0.024
RDX	ND	0.24	mg/kg	0.012
Tetryl	ND	0.24	mg/kg	0.0097
1,3,5-Trinitrobenzene	ND	0.24	mg/kg	0.0097
2,4,6-Trinitrotoluene	ND	0.24	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-011-5147-SO

General Chemistry

Lot-Sample #...: A0B250493-005 **Work Order #...:** LV3TC **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**02/25-02/26/10**	**0061054**

Dilution Factor: 1 MDL.....: 10.0

METHOD BLANK REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV6RG1AA **Matrix.....:** SOLID
MB Lot-Sample #: G0C010000-207
Prep Date.....: 03/01/10
Analysis Date..: 03/03/10 **Prep Batch #...:** 0060207
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitroguanidine	ND	0.25	mg/kg	SW846 8330 (Modif

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV6Q81AA **Matrix.....:** SOLID
MB Lot-Sample #: G0C010000-203

Prep Date.....: 03/01/10
Analysis Date..: 03/03/10 **Prep Batch #...:** 0060203
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330B
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
Nitrobenzene	ND	0.25	mg/kg	SW846 8330B
Nitroglycerin	ND	0.50	mg/kg	SW846 8330B
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330B
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330B
HMX	ND	0.25	mg/kg	SW846 8330B
RDX	ND	0.25	mg/kg	SW846 8330B
Tetryl	ND	0.25	mg/kg	SW846 8330B
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330B
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330B
4-Nitrotoluene	ND	0.50	mg/kg	SW846 8330B
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
PETN	ND	0.50	mg/kg	SW846 8330B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	105	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0B250493 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LV5R91AA		MB Lot-Sample #:	G0B260000-293	
	ND	5.0	mg/kg	MCAWW 353.2	02/26-03/01/10	0057293
		Dilution Factor: 1				
Percent Solids		Work Order #: LV6421AA		MB Lot-Sample #:	A0C020000-054	
	ND	10.0	%	MCAWW 160.3 MOD	02/25-02/26/10	0061054
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV6RG1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C010000-207
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060207
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Nitroguanidine	**92**	**(72 - 121)**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV6RG1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C010000-207
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060207
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Nitroguanidine	**1.0**	**0.92**	**mg/kg**	**92**	**SW846 8330 (Modi**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV6Q81AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C010000-203
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2-Amino-4,6-dinitrotoluene	**95**	**(80 - 125)**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**94**	**(80 - 125)**	**SW846 8330B**
1,3-Dinitrobenzene	**98**	**(80 - 125)**	**SW846 8330B**
2,4-Dinitrotoluene	**95**	**(80 - 125)**	**SW846 8330B**
2,6-Dinitrotoluene	**94**	**(80 - 120)**	**SW846 8330B**
HMX	**97**	**(75 - 125)**	**SW846 8330B**
Nitrobenzene	**97**	**(75 - 125)**	**SW846 8330B**
2-Nitrotoluene	**106**	**(80 - 125)**	**SW846 8330B**
3-Nitrotoluene	**97**	**(75 - 120)**	**SW846 8330B**
4-Nitrotoluene	**97**	**(75 - 125)**	**SW846 8330B**
RDX	**100**	**(70 - 135)**	**SW846 8330B**
Tetryl	**89**	**(10 - 150)**	**SW846 8330B**
1,3,5-Trinitrobenzene	**99**	**(75 - 125)**	**SW846 8330B**
2,4,6-Trinitrotoluene	**90**	**(55 - 140)**	**SW846 8330B**
Nitroglycerin	**106**	**(74 - 112)**	**SW846 8330B**
PETN	**97**	**(75 - 117)**	**SW846 8330B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	97	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV6Q81AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C010000-203
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Amino-4,6-dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**95**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**0.50**	**0.47**	**mg/kg**	**94**	**SW846 8330B**
1,3-Dinitrobenzene	**0.50**	**0.49**	**mg/kg**	**98**	**SW846 8330B**
2,4-Dinitrotoluene	**0.50**	**0.47**	**mg/kg**	**95**	**SW846 8330B**
2,6-Dinitrotoluene	**0.50**	**0.47**	**mg/kg**	**94**	**SW846 8330B**
HMX	**0.50**	**0.49**	**mg/kg**	**97**	**SW846 8330B**
Nitrobenzene	**0.50**	**0.49**	**mg/kg**	**97**	**SW846 8330B**
2-Nitrotoluene	**0.50**	**0.53**	**mg/kg**	**106**	**SW846 8330B**
3-Nitrotoluene	**0.50**	**0.48**	**mg/kg**	**97**	**SW846 8330B**
4-Nitrotoluene	**0.50**	**0.49**	**mg/kg**	**97**	**SW846 8330B**
RDX	**0.50**	**0.50**	**mg/kg**	**100**	**SW846 8330B**
Tetryl	**0.50**	**0.45**	**mg/kg**	**89**	**SW846 8330B**
1,3,5-Trinitrobenzene	**0.50**	**0.50**	**mg/kg**	**99**	**SW846 8330B**
2,4,6-Trinitrotoluene	**0.50**	**0.45**	**mg/kg**	**90**	**SW846 8330B**
Nitroglycerin	**1.0**	**1.1**	**mg/kg**	**106**	**SW846 8330B**
PETN	**1.0**	**0.97**	**mg/kg**	**97**	**SW846 8330B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	97	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250493 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LV5R91AC	LCS Lot-Sample#: G0B260000-293		
	68	(34 - 115)	MCAWW 353.2	02/26-03/01/10	0057293
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B250493 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LV5R91AC		LCS Lot-Sample#: G0B260000-293			
	50.9	34.7	mg/kg	68	MCAWW 353.2	02/26-03/01/10	0057293
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV3R51AH-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250493-002 LV3R51AJ-MSD
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060207
Dilution Factor: 0.99

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Nitroguanidine	**88**	**(72 - 121)**			**SW846 8330 (Modified**
	91	**(72 - 121)**	**2.7**	**(0-20)**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV3R51AH-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250493-002 LV3R51AJ-MSD
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060207
Dilution Factor: 0.99

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Nitroguanidine	**ND**	**1.0**	**0.88**	**mg/kg**	**88**		**SW846 8330 (Modified**
	ND	**1.0**	**0.91**	**mg/kg**	**91**	**2.7**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV3RP1AD-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250493-001 LV3RP1AE-MSD
Date Sampled...: 02/24/10 11:20 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 0.98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluene	**95**	**(80 - 125)**			**SW846 8330B**
	99	**(80 - 125)**	**4.7**	**(0-30)**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**95**	**(80 - 125)**			**SW846 8330B**
	119	**(80 - 125)**	**24**	**(0-30)**	**SW846 8330B**
1,3-Dinitrobenzene	**99**	**(80 - 125)**			**SW846 8330B**
	102	**(80 - 125)**	**4.1**	**(0-30)**	**SW846 8330B**
2,4-Dinitrotoluene	**96**	**(80 - 125)**			**SW846 8330B**
	99	**(80 - 125)**	**5.0**	**(0-30)**	**SW846 8330B**
2,6-Dinitrotoluene	**95**	**(80 - 120)**			**SW846 8330B**
	108	**(80 - 120)**	**14**	**(0-30)**	**SW846 8330B**
HMX	**99**	**(75 - 125)**			**SW846 8330B**
	98	**(75 - 125)**	**0.10**	**(0-30)**	**SW846 8330B**
Nitrobenzene	**97**	**(75 - 125)**			**SW846 8330B**
	101	**(75 - 125)**	**5.2**	**(0-30)**	**SW846 8330B**
2-Nitrotoluene	**98**	**(80 - 125)**			**SW846 8330B**
	95	**(80 - 125)**	**1.1**	**(0-30)**	**SW846 8330B**
3-Nitrotoluene	**97**	**(75 - 120)**			**SW846 8330B**
	96	**(75 - 120)**	**0.27**	**(0-30)**	**SW846 8330B**
4-Nitrotoluene	**97**	**(75 - 125)**			**SW846 8330B**
	96	**(75 - 125)**	**0.35**	**(0-30)**	**SW846 8330B**
RDX	**100**	**(70 - 135)**			**SW846 8330B**
	95	**(70 - 135)**	**3.7**	**(0-30)**	**SW846 8330B**
Tetryl	**88**	**(10 - 150)**			**SW846 8330B**
	94	**(10 - 150)**	**7.7**	**(0-30)**	**SW846 8330B**
1,3,5-Trinitrobenzene	**100**	**(75 - 125)**			**SW846 8330B**
	99	**(75 - 125)**	**0.0**	**(0-30)**	**SW846 8330B**
2,4,6-Trinitrotoluene	**91**	**(55 - 140)**			**SW846 8330B**
	93	**(55 - 140)**	**2.9**	**(0-30)**	**SW846 8330B**
Nitroglycerin	**101**	**(74 - 112)**			**SW846 8330B**
	101	**(74 - 112)**	**0.70**	**(0-30)**	**SW846 8330B**
PETN	**97**	**(75 - 117)**			**SW846 8330B**
	98	**(75 - 117)**	**3.1**	**(0-30)**	**SW846 8330B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV3RP1AD-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250493-001 LV3RP1AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	97	(81 - 127)
	106	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV3RP1AD-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250493-001 LV3RP1AE-MSD
Date Sampled...: 02/24/10 11:20 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 0.98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2-Amino-4,6-dinitrotoluene	**ND**	**0.49**	**0.47**	**mg/kg**	**95**		**SW846 8330B**
	ND	**0.50**	**0.49**	**mg/kg**	**99**	**4.7**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**ND**	**0.49**	**0.47**	**mg/kg**	**95**		**SW846 8330B**
	ND	**0.50**	**0.60**	**mg/kg**	**119**	**24**	**SW846 8330B**
1,3-Dinitrobenzene	**ND**	**0.49**	**0.49**	**mg/kg**	**99**		**SW846 8330B**
	ND	**0.50**	**0.51**	**mg/kg**	**102**	**4.1**	**SW846 8330B**
2,4-Dinitrotoluene	**ND**	**0.49**	**0.47**	**mg/kg**	**96**		**SW846 8330B**
	ND	**0.50**	**0.50**	**mg/kg**	**99**	**5.0**	**SW846 8330B**
2,6-Dinitrotoluene	**ND**	**0.49**	**0.47**	**mg/kg**	**95**		**SW846 8330B**
	ND	**0.50**	**0.54**	**mg/kg**	**108**	**14**	**SW846 8330B**
HMX	**ND**	**0.49**	**0.49**	**mg/kg**	**99**		**SW846 8330B**
	ND	**0.50**	**0.49**	**mg/kg**	**98**	**0.10**	**SW846 8330B**
Nitrobenzene	**ND**	**0.49**	**0.48**	**mg/kg**	**97**		**SW846 8330B**
	ND	**0.50**	**0.51**	**mg/kg**	**101**	**5.2**	**SW846 8330B**
2-Nitrotoluene	**ND**	**0.49**	**0.48**	**mg/kg**	**98**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**95**	**1.1**	**SW846 8330B**
3-Nitrotoluene	**ND**	**0.49**	**0.48**	**mg/kg**	**97**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**0.27**	**SW846 8330B**
4-Nitrotoluene	**ND**	**0.49**	**0.48**	**mg/kg**	**97**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**0.35**	**SW846 8330B**
RDX	**ND**	**0.49**	**0.49**	**mg/kg**	**100**		**SW846 8330B**
	ND	**0.50**	**0.47**	**mg/kg**	**95**	**3.7**	**SW846 8330B**
Tetryl	**ND**	**0.49**	**0.43**	**mg/kg**	**88**		**SW846 8330B**
	ND	**0.50**	**0.47**	**mg/kg**	**94**	**7.7**	**SW846 8330B**
1,3,5-Trinitrobenzene	**ND**	**0.49**	**0.49**	**mg/kg**	**100**		**SW846 8330B**
	ND	**0.50**	**0.49**	**mg/kg**	**99**	**0.0**	**SW846 8330B**
2,4,6-Trinitrotoluene	**ND**	**0.49**	**0.45**	**mg/kg**	**91**		**SW846 8330B**
	ND	**0.50**	**0.46**	**mg/kg**	**93**	**2.9**	**SW846 8330B**
Nitroglycerin	**ND**	**0.99**	**1.0**	**mg/kg**	**101**		**SW846 8330B**
	ND	**1.0**	**1.0**	**mg/kg**	**101**	**0.70**	**SW846 8330B**
PETN	**ND**	**0.99**	**0.95**	**mg/kg**	**97**		**SW846 8330B**
	ND	**1.0**	**0.98**	**mg/kg**	**98**	**3.1**	**SW846 8330B**

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MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV3RP1AD-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250493-001 LV3RP1AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	97	(81 - 127)
	106	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250493 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#: LV3R51AF-MS/LV3R51AG-MSD				MS Lot-Sample #: A0B250493-002	
	43	(34 - 115)			MCAWW 353.2	02/26-03/01/10	0057293
	45	(34 - 115)	5.2	(0-71)	MCAWW 353.2	02/26-03/01/10	0057293

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B250493 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:50 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LV3R51AF-MS/LV3R51AG-MSD				MS Lot-Sample #: A0B250493-002		
	ND	53.9	23.7	mg/kg	43		MCAWW 353.2	02/26-03/01/10	0057293
	ND	53.5	25.0	mg/kg	45	5.2	MCAWW 353.2	02/26-03/01/10	0057293

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV3TC1AC -SMP **Matrix.....:** SO
SD Lot-Sample #: A0B250493-005 LV3TC1AD -DUP
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 0.98
% Moisture.....: 14

PARAMETER	SAMPLE RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD
4-Amino-2,6-dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2-Amino-4,6-dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
1,3-Dinitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,4-Dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,6-Dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
HMX	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Nitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Nitroglycerin	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
3-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
4-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
PETN	ND	ND	mg/kg	0	(0-30)	SW846 8330B
RDX	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Tetryl	ND	ND	mg/kg	0	(0-30)	SW846 8330B
1,3,5-Trinitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,4,6-Trinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B

SURROGATE RECOVERY	SAMPLE % RECOVERY	DUPLICATE % RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	105	105	(81 - 127)

SAMPLE DUPLICATE EVALUATION REPORT

HPLC

Client Lot #...: A0B250493 **Work Order #...:** LV3TC1AC -SMP **Matrix.....:** SO
SD Lot-Sample #: A0B250493-005 LV3TC1AE -DUP
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/03/10
Prep Batch #...: 0060203
Dilution Factor: 0.97
% Moisture.....: 14

PARAMETER	SAMPLE RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD
4-Amino-2,6-dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2-Amino-4,6-dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
1,3-Dinitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,4-Dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,6-Dinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
HMX	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Nitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Nitroglycerin	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
3-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
4-Nitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
PETN	ND	ND	mg/kg	0	(0-30)	SW846 8330B
RDX	ND	ND	mg/kg	0	(0-30)	SW846 8330B
Tetryl	ND	ND	mg/kg	0	(0-30)	SW846 8330B
1,3,5-Trinitrobenzene	ND	ND	mg/kg	0	(0-30)	SW846 8330B
2,4,6-Trinitrotoluene	ND	ND	mg/kg	0	(0-30)	SW846 8330B

SURROGATE RECOVERY	SAMPLE % RECOVERY	DUPLICATE % RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	105	106	(81 - 127)

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250493 **Work Order #...:** LV030-SMP **Matrix.....:** SOLID
LV030-DUP
Date Sampled...: 02/22/10 13:35 **Date Received..:** 02/23/10
% Moisture.....: 24

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B230467-002		
	75.7	74.8	%	1.3	(0-20)	MCAWW 160.3 MOD	02/25-02/26/10	0056243

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250493 **Work Order #...:** LV3J1-SMP **Matrix.....:** SOLID
LV3J1-DUP
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250453-005		
	85.6	86.8	%	1.4	(0-20)	MCAWW 160.3 MOD	02/25-02/26/10	0056243

Dilution Factor: 1

Manual Integration Addendum

Manual Integration Record

Instrument : PDA-1 Lot# AOB250493

8330

Compound Name	Analysis date: ICAL									Analysis date:3-3-10								Analysis date:									
	1	2	3	4	5	6	7	8	ICV	LCS	2MS	2SD	LCSD														
Nitroguanidine										X	X	X															

yes

SOLID, 8330B, Explosives

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC10 Batch ID: 03022010
Method : Method 8330 Test : SOP SAC-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
02-MAR-2010	10:51	NS	8330 PRIMER	A-000001.	0 g	0 mL	1	
02-MAR-2010	11:40	NS	8330 PRIMER	A-000002.	0 g	0 mL	1	
02-MAR-2010	12:28	NS	STD_06 09GCSV0482 8330 200ng/m	A-000003.	0 g	0 mL	1	
02-MAR-2010	13:17	NS	LV5AW1AA 0057225 G0B260000-MB	A-000004.	1000 mL	20 mL	1	
02-MAR-2010	14:05	NS	LV5AW1AC 0057225 G0B260000-LCS	A-000005.	1000 mL	20 mL	1	
02-MAR-2010	14:54	NS	LVQVT1EJ 0057225 A0B160474-9	A-000006.	898.16 mL	20 mL	1	
02-MAR-2010	15:42	NS	LVQVT1EK 0057225 A0B160474-9S	A-000007.	889.34 mL	20 mL	1	
02-MAR-2010	16:31	NS	LVQVT2AT 0057225 A0B160474-9D	A-000008.	906.55 mL	20 mL	1	
02-MAR-2010	17:19	NS	LVQVV2AT 0057225 A0B160474-10	A-000009.	1019.05 mL	20 mL	1	
02-MAR-2010	18:07	NS	LV49G1AA 0057220 G0B260000-MB	A-000010.	10 g	80 mL	1	
02-MAR-2010	18:56	NS	LV49G1AC 0057220G0B260000-LCS	A-000011.	10 g	80 mL	1	
02-MAR-2010	19:44	NS	LVQVF2CP 0057220 A0B160474-1	A-000012.	10.05 g	80 mL	1	
02-MAR-2010	20:33	NS	LVQVH1A8 0057220 A0B160474-2	A-000013.	10.01 g	80 mL	1	
02-MAR-2010	21:21	NS	STD_05 10GCSV0072 8330 100ng/m	A-000014.	0 g	0 mL	1	
02-MAR-2010	22:10	NS	LVQVH1A9 0057220 A0B160474-2S	A-000015.	10.02 g	80 mL	1	
02-MAR-2010	22:58	NS	LVQVH2AH 0057220 A0B160474-2D	A-000016.	10.21 g	80 mL	1	
02-MAR-2010	23:47	NS	LVQVL2AK 0057220 A0B160474-5	A-000017.	10.11 g	80 mL	1	
03-MAR-2010	00:35	NS	LVQVL1CH 0057220 A0B160474-5 D	A-000018.	10.09 g	80 mL	1	
03-MAR-2010	01:24	NS	LVQVL1CJ 0057220 A0B160474-5 T	A-000019.	10.14 g	80 mL	1	
03-MAR-2010	02:12	NS	LV6Q11AA 0060199 G0C010000-MB	A-000020.	10 g	80 mL	1	
03-MAR-2010	03:01	NS	LV6Q11AC 0060199 G0C010000-LCS	A-000021.	10 g	80 mL	1	
03-MAR-2010	03:49	NS	LVQVJ2AV 0060199 A0B160474-3	A-000022.	10.04 g	80 mL	1	
03-MAR-2010	04:38	NS	LVQVK2A8 0060199 A0B160474-4	A-000023.	10.24 g	80 mL	1	
03-MAR-2010	05:26	NS	LVQVK2CL 0060199 A0B160474-4S	A-000024.	9.98 g	80 mL	1	
03-MAR-2010	06:15	NS	STD_05 10GCSV0072 8330 100ng/m	A-000025.	0 g	0 mL	1	
03-MAR-2010	07:03	NS	LVQVK2CM 0060199 A0B160474-4D	A-000026.	10.09 g	80 mL	1	
03-MAR-2010	07:51	NS	LV6Q81AA 0060203 G0C010000-MB	A-000027.	10 g	80 mL	1	
03-MAR-2010	08:40	NS	LV6Q81AC 0060203 G0C010000-LCS	A-000028.	10 g	80 mL	1	
03-MAR-2010	09:28	NS	LV3RP1AC 0060203 A0B250493-1	A-000029.	10.18 g	80 mL	1	
03-MAR-2010	10:17	NS	LV3RP1AD 0060203 A0B250493-1S	A-000030.	10.12 g	80 mL	1	
03-MAR-2010	11:05	NS	LVQVV2AT 0057225 A0B160474-10	A-000031.	1019.05 mL	20 mL	1	
03-MAR-2010	11:54	NS	LV3RP1AE 0060203 A0B250493-1D	A-000032.	10 g	80 mL	1	
03-MAR-2010	12:43	NS	LV3R51AC 0060203 A0B250493-2	A-000033.	9.97 g	80 mL	1	
03-MAR-2010	13:31	NS	LV3R71AC 0060203 A0B250493-3	A-000034.	10.14 g	80 mL	1	
03-MAR-2010	14:20	NS	LV3R91AC 0060203 A0B250493-4	A-000035.	10.03 g	80 mL	1	
03-MAR-2010	15:08	NS	LV3TC1AC 0060203 A0B250493-5	A-000036.	10.1 g	80 mL	1	
03-MAR-2010	15:57	NS	STD_05 10GCSV0072 8330 100ng/m	A-000037.	0 g	0 mL	1	
03-MAR-2010	16:45	NS	LV3TC1AD 0060203 A0B250493-5 D	A-000038.	10.16 g	80 mL	1	
03-MAR-2010	17:34	NS	LV3TC1AE 0060203 A0B250493-5 T	A-000039.	10.21 g	80 mL	1	
03-MAR-2010	18:22	NS	LV7NF1AA 0061228 G0C020000-MB	A-000040.	10 g	80 mL	1	
03-MAR-2010	19:11	NS	LV7NF1AC 0061228 G0C020000-LCS	A-000041.	10 g	80 mL	1	
03-MAR-2010	19:59	NS	LV402AC 0061228 A0B260449-1	A-000042.	10.03 g	80 mL	1	
03-MAR-2010	20:48	NS	LV03V1A8 0061228 A0B230467-1	A-000043.	10.05 g	80 mL	1	
03-MAR-2010	21:37	NS	LV0301DM 0061228 A0B230467-2	A-000044.	10.06 g	80 mL	1	
03-MAR-2010	22:25	NS	LV0301DN 0061228 A0B230467-2S	A-000045.	10.01 g	80 mL	1	
03-MAR-2010	23:14	NS	LV0301DP 0061228 A0B230467-2D	A-000046.	10.06 g	80 mL	1	
04-MAR-2010	00:02	NS	LV0311A4 0061228 A0B230467-3	A-000047.	10 g	80 mL	1	
04-MAR-2010	00:51	NS	STD_05 10GCSV0072 8330 100ng/m	A-000048.	0 g	0 mL	1	
04-MAR-2010	01:39	NS	LV0341AF 0061228 A0B230467-4	A-000049.	10 g	80 mL	1	
04-MAR-2010	02:28	NS	LV0351AM 0061228 A0B230467-5	A-000050.	10.08 g	80 mL	1	

Sequence continued on next page

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page 2 of Batch 03022010 on Instrument LC10
For header information, refer to the first page of this batch's log.

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
04-MAR-2010	03:16	NS	LV0361AM 0061228 A0B230467-6	A-000051.	10.08 g	80 mL	1	
04-MAR-2010	04:05	NS	LV0361A6 0061228 A0B230467-6 D	A-000052.	10.06 g	80 mL	1	
04-MAR-2010	04:53	NS	LV0361A7 0061228 A0B230467-6 T	A-000053.	10.08 g	80 mL	1	
04-MAR-2010	05:42	NS	LV3R01AA 0056227 G0B250000-MB	A-000054.	10 g	80 mL	1	
04-MAR-2010	06:30	NS	LV3R01AC 0056227 G0B250000-LCS	A-000055.	10 g	80 mL	1	
04-MAR-2010	07:19	NS	LVTQQ1A4 0056227 A0B180429-1	A-000056.	10.01 g	80 mL	1	
04-MAR-2010	08:07	NS	LVTQ11AF 0056227 A0B180429-2	A-000057.	10.03 g	80 mL	1	
04-MAR-2010	08:56	NS	LVTQ21AF 0056227 A0B180429-3	A-000058.	10.02 g	80 mL	1	
04-MAR-2010	09:44	NS	STD_05 10GCSV0072 8330 100ng/m	A-000059.	0 g	0 mL	1	
04-MAR-2010	10:33	NS	LVTQ31AF 0056227 A0B180429-4	A-000060.	10.01 g	80 mL	1	
04-MAR-2010	11:22	NS	LVTT01A7 0056227 A0B180429-12	A-000061.	10.02 g	80 mL	1	
04-MAR-2010	12:10	NS	LVTT91A4 0056227 A0B180429-14	A-000062.	10.06 g	80 mL	1	
04-MAR-2010	12:59	NS	LVTVA1AF 0056227 A0B180429-15	A-000063.	10.05 g	80 mL	1	
04-MAR-2010	13:47	NS	LVVFK1A8 0056227 A0B180524-1	A-000064.	10.05 g	80 mL	1	
04-MAR-2010	14:36	NS	LVVFK1CC 0056227 A0B180524-1 D	A-000065.	10.18 g	80 mL	2	

TestAmerica West Sacramento

A-000025.D

Chromatography Summary

Method 8330 Target Analyte Results

Injection Date: 3/3/2010 6:15 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000025.D **Vial Num:** 3

Instrument ID: LC10

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-205nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.68	5061	105.0000<	100	5%	Acceptable		18.68	9666	99.0200	100	-1%	Acceptable		(±15)	
HMX	5.45	13098	98.3200<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
RDX	8.01	9219	102.2000<	100	2%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID	9.25	18477	210.8000	200	5%	Acceptable		9.25	27275	211.9000<	200	6%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.58	16115	100.2000<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.61	15680	99.8600<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	15.09	8280	94.3000<	100	-6%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	15.46	7119	96.1600<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.34	9193	96.2100<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	18.10	7185	100.8000<	100	1%	Acceptable					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.23	8066	99.3800<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	20.97	5679	100.3000<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.75	9180	99.9200<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	25.33	3780	92.8100<	100	-7%	Acceptable					100	-100%	Fails		(±15)	45
4-Nitrotoluene	27.33	4592	94.2700<	100	-6%	Acceptable					100	-100%	Fails		(±15)	45
3-Nitrotoluene	29.46	4458	92.8500<	100	-7%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				100	-100%	Fails		16.38	8321	100.8000<	100	1%	Acceptable		(±15)	45
PETN				100	-100%	Fails		33.02	3085	97.5900<	100	-2%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.49	10277	99.8000<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				100	-100%	Fails					100	-100%	Fails		(±15)	

mr 3/2/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/3/2010 9:56 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000025.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 03-MAR-2010 06:15
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 03-Mar-2010 06:59 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

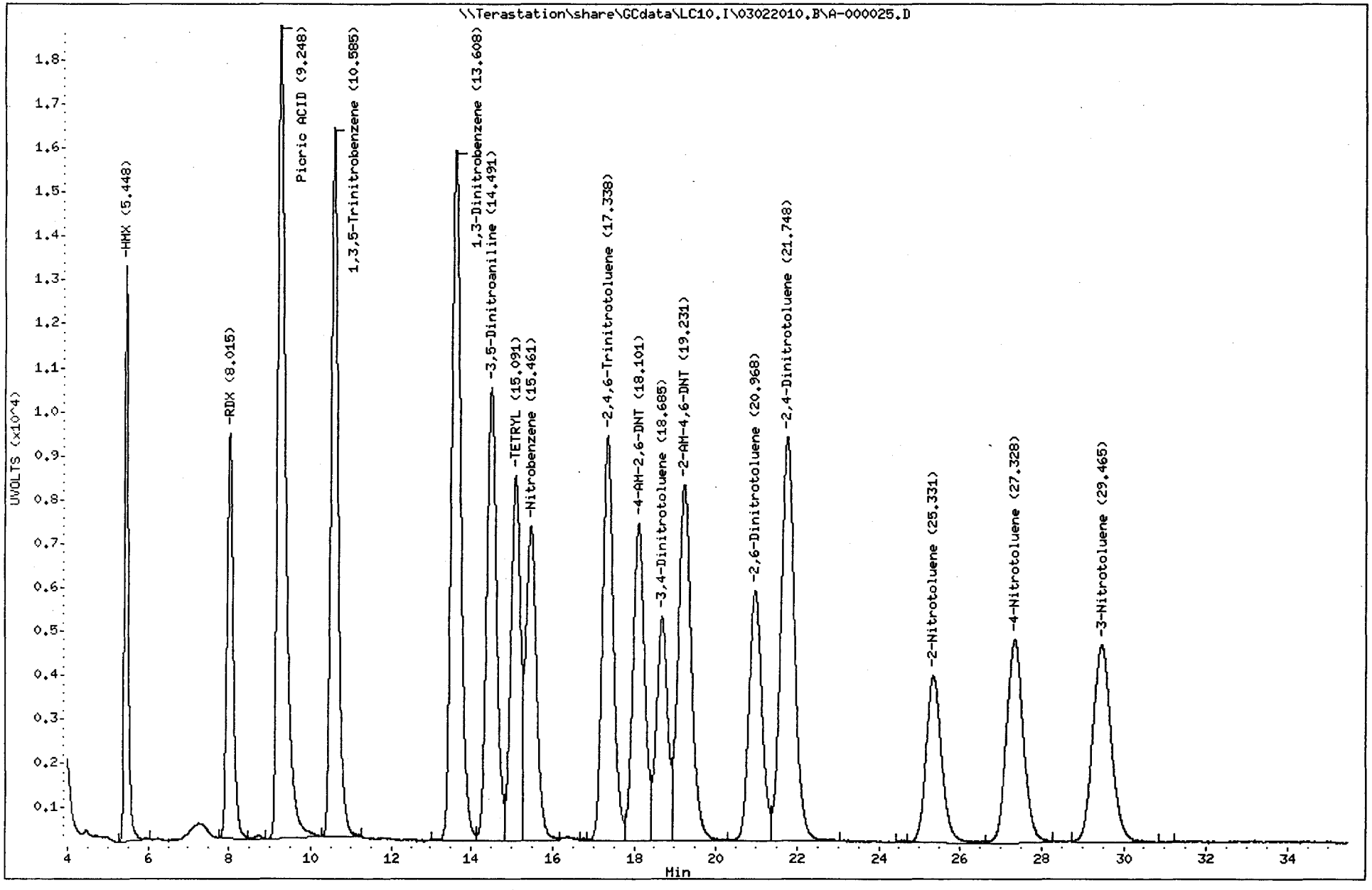
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.448	84320	13098	0.155	8.41		2	HMX
8.015	96002	9219	0.096	5.92		3	RDX
8.701	1114	100	0.090	0.06			
9.248	251817	18477	0.073	11.96		5	Picric ACID
10.585	204032	16115	0.079	10.34		6	1,3,5-Trinitrobenze
13.608	248128	15680	0.063	10.07		7	1,3-Dinitrobenzene
14.491	172839	10277	0.059	6.60		8	3,5-Dinitroaniline
15.091	133514	8280	0.062	5.31		9	TETRYL
15.461	128240	7119	0.056	4.57		10	Nitrobenzene
16.758	210	46	0.219	0.02			
17.338	170439	9193	0.054	5.90		12	2,4,6-Trinitrotolue
18.101	143419	7185	0.050	4.61		13	4-AM-2,6-DNT
18.685	98218	5061	0.052	3.25	$	1	3,4-Dinitrotoluene
19.231	177050	8066	0.046	5.18		14	2-AM-4,6-DNT
20.968	124572	5679	0.046	3.64		15	2,6-Dinitrotoluene
21.748	212710	9180	0.043	5.89		16	2,4-Dinitrotoluene
24.558	589	62	0.105	0.03			
25.331	101330	3780	0.037	2.42		17	2-Nitrotoluene
27.328	131292	4592	0.035	2.94		18	4-Nitrotoluene
29.465	137342	4458	0.032	2.86		19	3-Nitrotoluene
30.975	450	38	0.084	0.02			
	2617626	155705		100.000			

Total unknown % height = 0.1300

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000025.D
Date : 03-MAR-2010 06:15
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



North Canton

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000025.D\A-000025
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 03-MAR-2010 06:15
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 03-Mar-2010 06:59 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.248	371456	27275	0.073	17.34	5	Picric ACID
10.578	3884	258	0.066	0.16		
13.611	125821	8089	0.064	5.11		
14.491	177939	10703	0.060	6.77		
15.091	175827	11065	0.063	7.00		
15.458	198489	11045	0.056	6.98		
16.378	108078	6321	0.058	3.99	11	Nitroglycerin
17.338	181214	9811	0.054	6.20		
18.101	209494	10542	0.050	6.67		
18.685	187744	9666	0.051	6.11	$ 1	3,4-Dinitrotoluene
19.228	182243	8427	0.046	5.33		
20.971	215050	9739	0.045	6.16		
21.748	175959	7382	0.042	4.67		
24.478	856	76	0.089	0.04		
25.335	239875	9050	0.038	5.72		
27.328	190490	6698	0.035	4.23		
29.455	269569	8814	0.033	5.57		
33.021	119984	3085	0.026	1.95	20	PETN
	3133972	158046		100.000		

Total unknown % height = 70.61

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000025.D\A-000025.D

Date : 03-MAR-2010 06:15

Client ID:

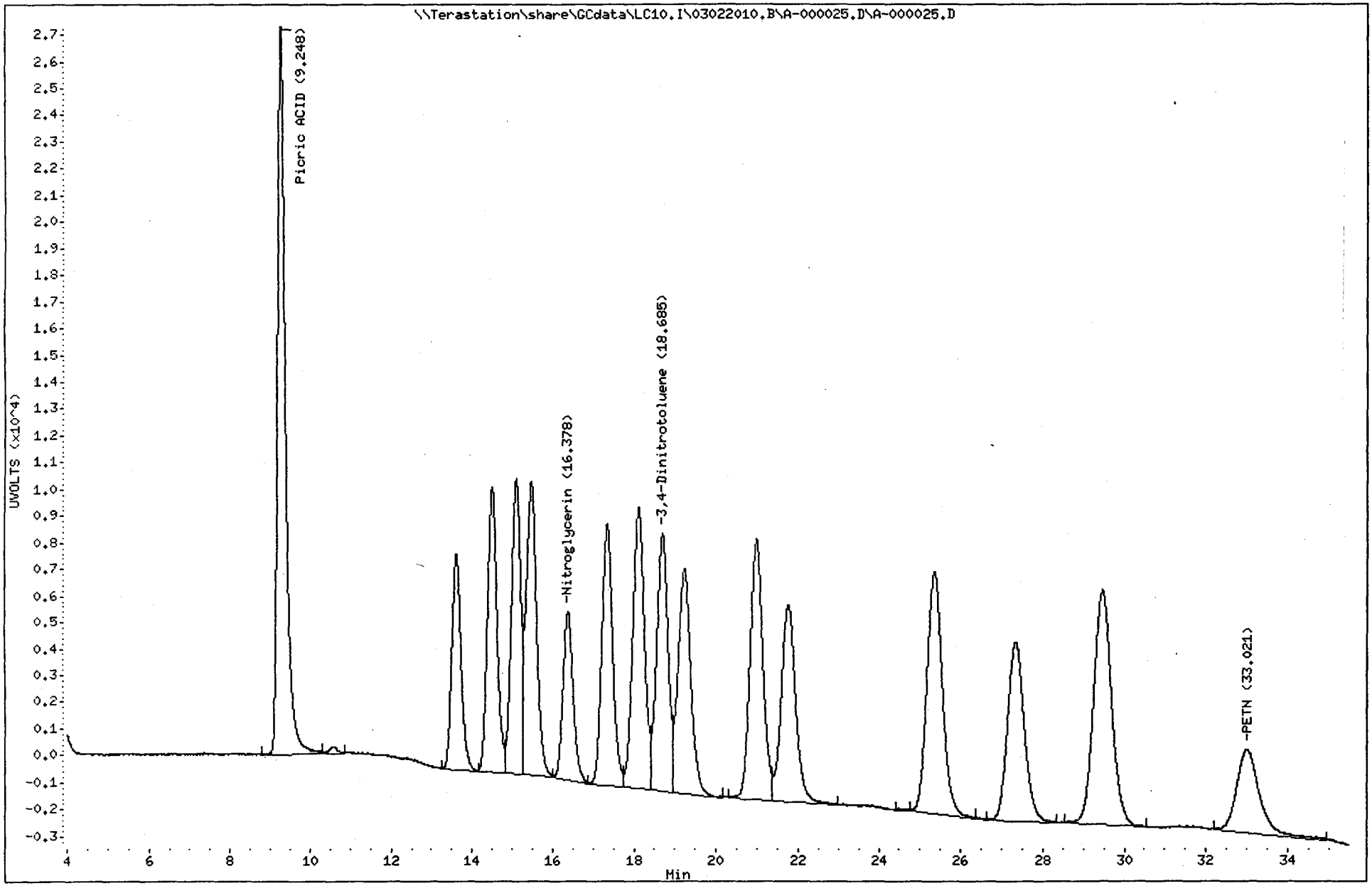
Instrument: LC10.i

Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000027.D

Chromatography Summary

Injection Date: 3/3/2010 7:51 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000027.D **Vial Num:** 32

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV6Q81AA 0060203 G0C010000-MB**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV6Q81AA 0060203 G0C010000-MB;0

Misc. Info: ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.67**	**-0.013**	**3162**	**524.6000<**		**18.67**	**-0.013**	**6081**	**498.3000**		**0.0000**	**0.00**	
HMX											12.0000	250.00	
RDX											16.0000	250.00	
Picric ACID											100.0000	1000.00	
1,3,5-Trinitrobenzene											8.0000	250.00	
1,3-Dinitrobenzene											20.0000	250.00	
TETRYL											20.0000	250.00	
Nitrobenzene											20.0000	250.00	
2,4,6-Trinitrotoluene											8.0000	250.00	
4-AM-2,6-DNT											8.0000	250.00	
2-AM-4,6-DNT											40.0000	300.00	
2,6-Dinitrotoluene											12.0000	250.00	
2,4-Dinitrotoluene											8.0000	250.00	
2-Nitrotoluene											32.0000	250.00	
4-Nitrotoluene											32.0000	500.00	
3-Nitrotoluene											28.0000	250.00	
Nitroglycerin											52.0000	500.00	
PETN											64.0000	500.00	
3,5-Dinitroaniline											10.0000	1300.00	

m 3/2/10

✓

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**524.6000**	**105**	**500.0000**	**498.3000**	**100**	**(81-127)**

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed: 3/3/2010 9:58 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000027.d
Lab Smp Id: LV6Q81AA 0060203 G0
Inj Date : 03-MAR-2010 07:51
Operator : NS Inst ID: LC10.i
Smp Info : LV6Q81AA 0060203 G0C010000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 03-Mar-2010 09:56 kenneyf Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.438	166	52	0.314	0.90	
8.211	1924	113	0.059	1.96	
9.408	13204	631	0.048	10.98	
9.915	11212	527	0.047	9.17	
15.221	2426	143	0.059	2.48	
18.671	62945	3162	0.050	55.11	$ 1 3,4-Dinitrotoluene
22.375	1074	78	0.073	1.35	
23.061	5110	324	0.063	5.64	
23.355	14010	378	0.027	6.58	
25.055	8522	214	0.025	3.72	
28.348	263	24	0.091	0.41	
28.488	758	98	0.129	1.70	
	121614	5744		100.000	

Total unknown % height = 44.89

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000027.d

Date : 03-MAR-2010 07:51

Client ID:

Instrument: LC10.i

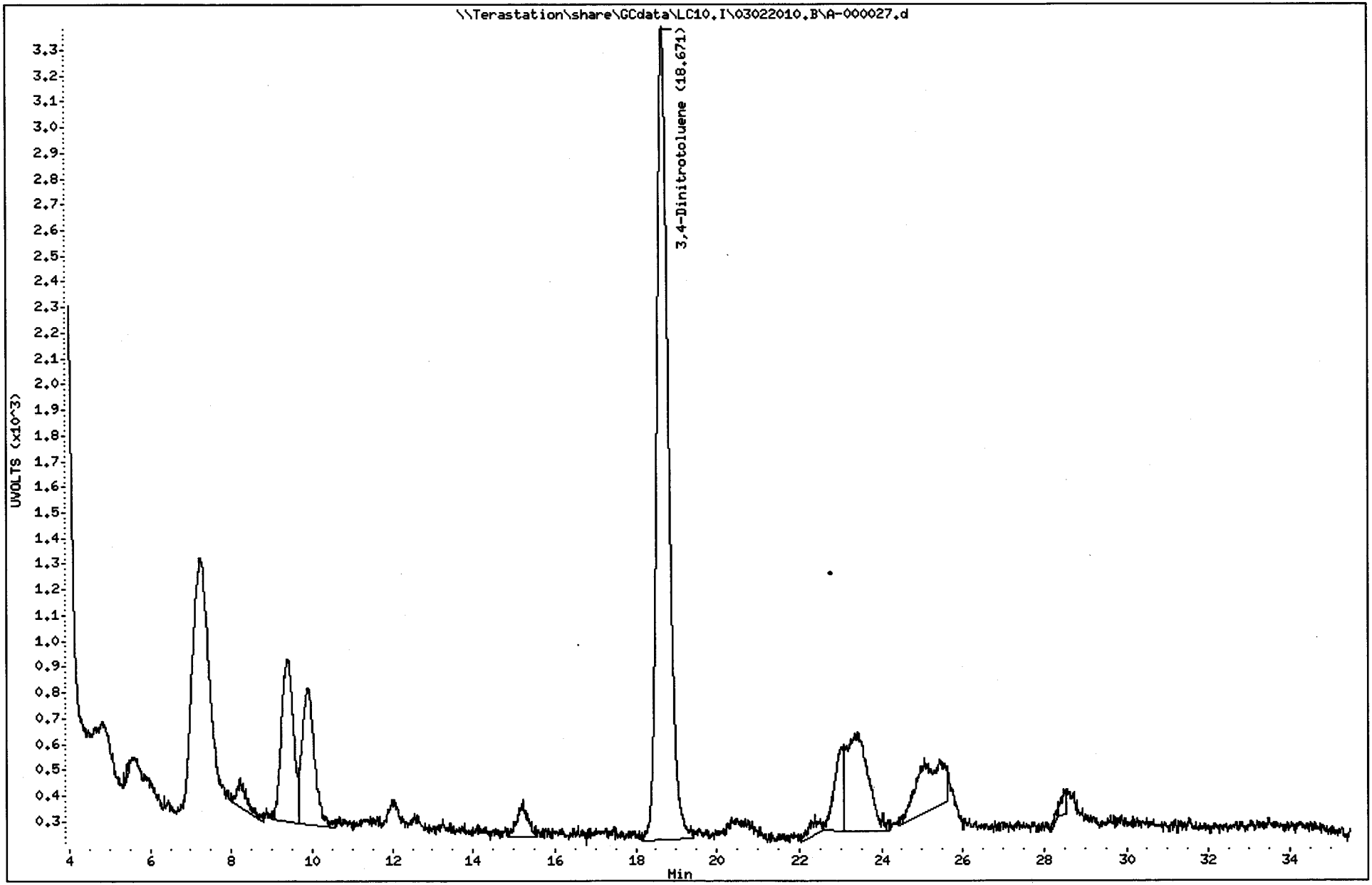
Sample Info: LV6Q81AA 0060203 G0C010000-MB:0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000027.d\A-000027
Lab Smp Id: LV6Q81AA 0060203 G0
Inj Date : 03-MAR-2010 07:51
Operator : NS Inst ID: LC10.i
Smp Info : LV6Q81AA 0060203 G0C010000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 03-Mar-2010 06:59 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.851	436	51	0.117	0.35	
18.671	122042	6081	0.050	42.09	$ 1 3,4-Dinitrotoluene
20.365	21550	555	0.026	3.83	
22.381	3941	223	0.057	1.54	
23.061	26269	1166	0.044	8.05	
23.371	46351	1375	0.030	9.50	
25.051	67830	2217	0.033	15.32	
25.471	66055	2268	0.034	15.67	
27.948	168	68	0.406	0.46	
28.481	10801	257	0.024	1.77	
30.368	384	40	0.104	0.27	
32.785	235	43	0.183	0.29	
33.065	1300	74	0.057	0.51	
34.031	393	51	0.130	0.35	
	367754	14469		100.000	

Total unknown % height = 57.91

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000027.d\A-000027.d

Date : 03-MAR-2010 07:51

Client ID:

Instrument: LC10.i

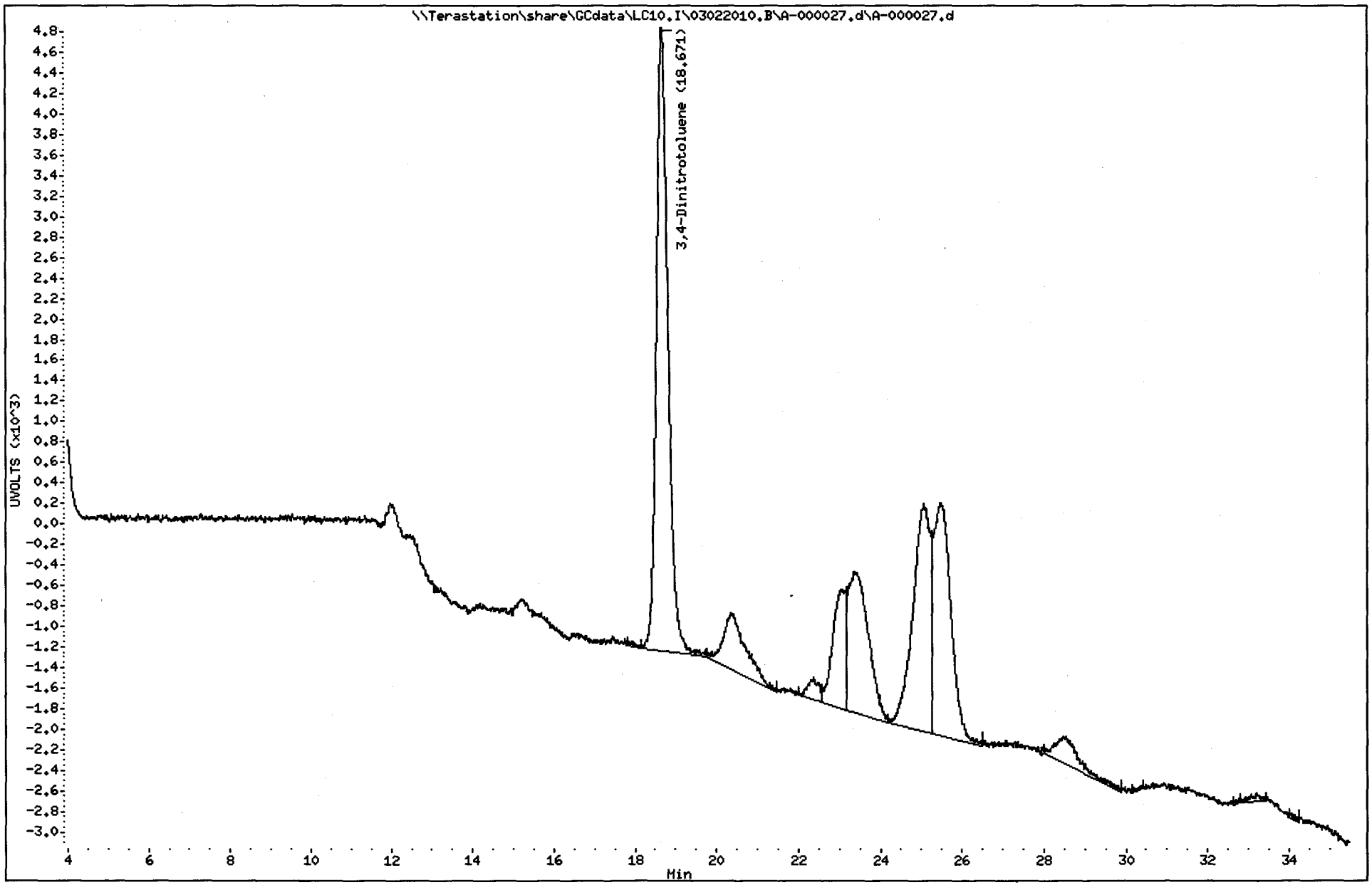
Sample Info: LV6Q81AA 0060203 G0C010000-MB;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000028.D

Chromatography Summary

Injection Date: 3/3/2010 8:40 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000028.D **Vial Num:** 33

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV6Q81AC 0060203 G0C010000-LCS**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:** SOLIDBQSM.sp

Samp. Info: LV6Q81AC 0060203 G0C010000-LCS;3

Misc. Info: LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.69	2930	486.1000<	500	97%	Acceptable		18.70	6309	517.0000	500	103%	Acceptable		(81-127)	
HMX	5.45	8087	485.6000<	500	97%	Acceptable					**500**	**0%**	**Fails**		(75-125)	45
RDX	8.02	5617	498.0000<	500	100%	Acceptable					**500**	**0%**	**Fails**		(70-135)	45
Picric ACID				**5000**	**0%**	**Fails**					**5000**	**0%**	**Fails**		(70-130)	
1,3,5-Trinitrobenzene	10.59	9986	496.6000<	500	99%	Acceptable					**500**	**0%**	**Fails**		(75-125)	45
1,3-Dinitrobenzene	13.61	9654	491.8000<	500	98%	Acceptable					**500**	**0%**	**Fails**		(80-125)	45
TETRYL	15.09	4887	445.3000<	500	89%	Acceptable					**500**	**0%**	**Fails**		(10-150)	45
Nitrobenzene	15.46	4500	486.3000<	500	97%	Acceptable					**500**	**0%**	**Fails**		(75-125)	45
2,4,6-Trinitrotoluene	17.34	5403	452.4000<	500	90%	Acceptable					**500**	**0%**	**Fails**		(55-140)	45
4-AM-2,6-DNT	18.10	4205	471.9000<	500	94%	Acceptable					**500**	**0%**	**Fails**		(80-125)	45
2-AM-4,6-DNT	19.22	4825	475.6000<	500	95%	Acceptable					**500**	**0%**	**Fails**		(80-125)	45
2,6-Dinitrotoluene	20.96	3322	469.3000<	500	94%	Acceptable					**500**	**0%**	**Fails**		(80-120)	45
2,4-Dinitrotoluene	21.73	5449	474.4000<	500	95%	Acceptable					**500**	**0%**	**Fails**		(80-125)	45
2-Nitrotoluene	25.32	2699	530.2000<	500	106%	Acceptable					**500**	**0%**	**Fails**		(80-125)	45
4-Nitrotoluene	27.30	2961	486.3000<	500	97%	Acceptable					**500**	**0%**	**Fails**		(75-125)	45
3-Nitrotoluene	29.44	2898	482.9000<	500	97%	Acceptable					**500**	**0%**	**Fails**		(75-120)	45
Nitroglycerin				**1000**	**0%**	**Fails**		16.38	8316	1061.0000<	1000	106%	Acceptable		(74-112)	45
PETN				**1000**	**0%**	**Fails**		33.02	3841	972.0000<	1000	97%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14.49	6253	485.8000<	500	97%	Acceptable					**500**	**0%**	**Fails**		(40-140)	45

Surrogates:	Spiked	Recovered	%Rec	Spiked	Recovered	%Rec	Limits
3,4-Dinitrotoluene	**500.0000**	**486.1000**	**97**	**500.0000**	**517.0000**	**103**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/3/2010 9:59 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000028.D
Lab Smp Id: LV6Q81AC 0060203 G0
Inj Date : 03-MAR-2010 08:40
Operator : NS Inst ID: LC10.i
Smp Info : LV6Q81AC 0060203 G0C010000-LCS;3
Misc Info : LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 03-Mar-2010 06:59 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 33 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

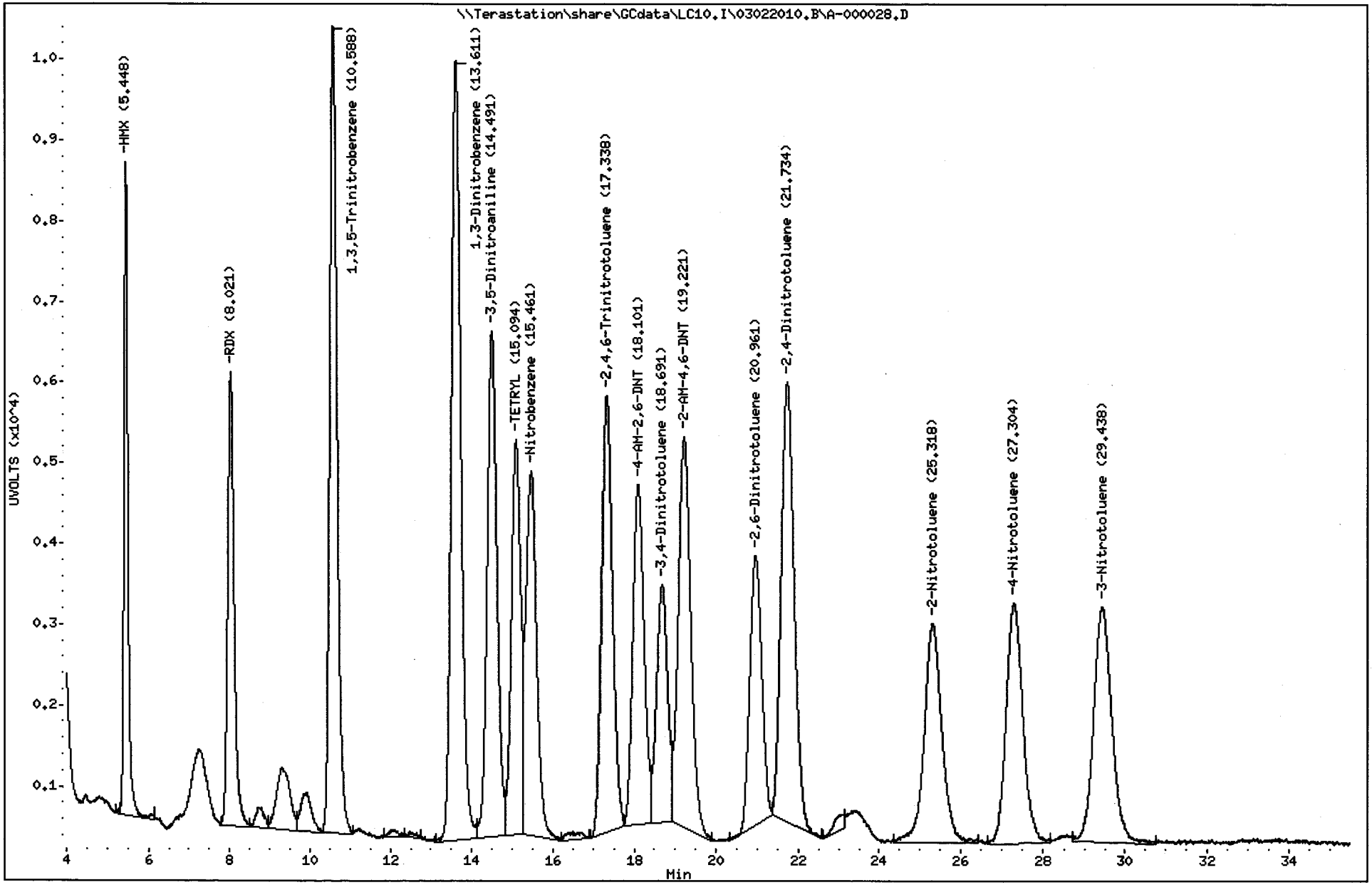
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.268	119	53	0.445	0.06		
5.448	53593	8087	0.151	9.44	2	HMX
8.021	61561	5617	0.091	6.55	3	RDX
8.714	3798	248	0.065	0.28		
9.304	17681	767	0.043	0.89		
9.918	9369	480	0.051	0.56		
10.588	126657	9986	0.079	11.77	6	1,3,5-Trinitrobenze
12.064	1144	87	0.076	0.10		
12.478	807	64	0.079	0.07		
13.611	155556	9654	0.062	11.27	7	1,3-Dinitrobenzene
14.491	106549	6253	0.059	7.30	8	3,5-Dinitroaniline
15.094	77716	4887	0.063	5.70	9	TETRYL
15.461	82479	4500	0.055	5.25	10	Nitrobenzene
16.388	2448	85	0.035	0.09		
17.338	97074	5403	0.056	6.30	12	2,4,6-Trinitrotolue
18.101	80356	4205	0.052	4.91	13	4-AM-2,6-DNT
18.691	53805	2930	0.054	3.42	$ 1	3,4-Dinitrotoluene
19.221	102531	4825	0.047	5.63	14	2-AM-4,6-DNT
20.961	68020	3322	0.049	3.87	15	2,6-Dinitrotoluene
21.734	118702	5449	0.046	6.36	16	2,4-Dinitrotoluene
23.118	3251	173	0.053	0.20		
25.318	82067	2699	0.033	3.15	17	2-Nitrotoluene
27.304	84343	2961	0.035	3.45	18	4-Nitrotoluene
29.438	90951	2898	0.032	3.38	19	3-Nitrotoluene

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
	1480577	85633		100.000	

Total unknown % height = 2.250

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000028.D
Date : 03-MAR-2010 08:40
Client ID:
Sample Info: LV6Q81AC 0060203 G0C010000-LCS:3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



North Canton

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000028.D\A-000028
Lab Smp Id: LV6Q81AC 0060203 G0
Inj Date : 03-MAR-2010 08:40
Operator : NS Inst ID: LC10.i
Smp Info : LV6Q81AC 0060203 G0C010000-LCS;3
Misc Info : LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 03-Mar-2010 06:59 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 33 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.224	9310	520	0.056	0.51	
10.548	2501	176	0.070	0.17	
12.508	10693	534	0.050	0.52	
13.614	94003	5626	0.060	5.54	
14.168	74617	4597	0.062	4.53	
14.481	122334	6860	0.056	6.76	
15.094	142752	8293	0.058	8.17	
15.461	149348	7106	0.048	7.00	
16.384	204089	8316	0.041	8.19	11 Nitroglycerin
17.334	98120	5639	0.057	5.55	
18.101	118297	6191	0.052	6.10	
18.698	128734	6309	0.049	6.21	$ 1 3,4-Dinitrotoluene
19.211	115249	5204	0.045	5.12	
20.454	9383	467	0.050	0.46	
20.968	143505	6151	0.043	6.06	
21.731	102425	4396	0.043	4.33	
23.068	19690	1024	0.052	1.00	
23.404	45318	1271	0.028	1.25	
25.304	314388	8473	0.027	8.46	
27.308	125298	4378	0.035	4.31	
28.318	445	55	0.124	0.05	
29.441	178260	5908	0.033	5.82	
30.584	1154	76	0.066	0.07	
31.374	875	48	0.055	0.04	

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
33.021	152706	3841	0.025	3.78	20 PETN
	2363495	101459		100.000	

Total unknown % height = 81.82

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000028.D\A-000028.D

Date : 03-MAR-2010 08:40

Client ID:

Instrument: LC10.i

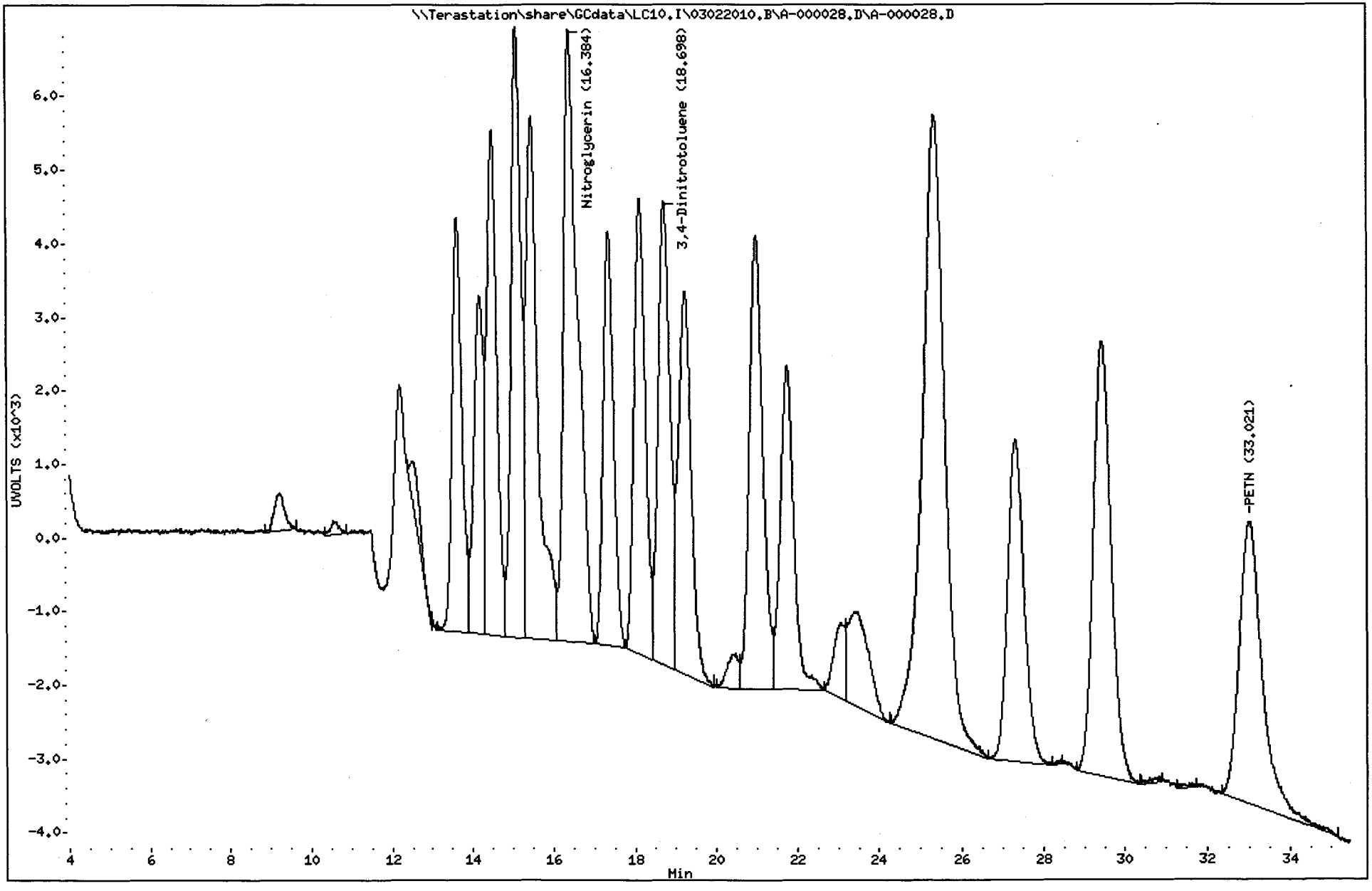
Sample Info: LV6Q81AC 0060203 G0C010000-LCS:3

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000029.D

Chromatography Summary

Injection Date: 3/3/2010 9:28 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000029.D **Vial Num:** 34

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3RP1AC 0060203 A0B250493-1**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.18 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3RP1AC 0060203 A0B250493-1;0

Misc. Info: ;;;10.18;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.69**	**0.001**	**3148**	**513.0000<**		**18.69**	**0.007**	**6134**	**493.8000**		**0.0000**	**0.00**	
HMX											11.7878	241.24	
RDX											15.7171	241.24	
Picric ACID											98.2318	964.95	
1,3,5-Trinitrobenzene											7.8585	241.24	
1,3-Dinitrobenzene											19.6464	241.24	
TETRYL											19.6464	241.24	
Nitrobenzene											19.6464	241.24	
2,4,6-Trinitrotoluene											7.8585	241.24	
4-AM-2,6-DNT											7.8585	241.24	
2-AM-4,6-DNT											39.2927	289.48	
2,6-Dinitrotoluene											11.7878	241.24	
2,4-Dinitrotoluene											7.8585	241.24	
2-Nitrotoluene											31.4342	241.24	
4-Nitrotoluene											31.4342	482.47	
3-Nitrotoluene											27.5049	241.24	
Nitroglycerin											51.0806	482.47	
PETN											62.8684	482.47	
3,5-Dinitroaniline											9.8232	1254.43	

nr 3/2/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**491.1591**	**513.0000**	**104**	**491.1591**	**493.8000**	**101**	**(81-127)**

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed: 3/3/2010 10:34 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000029.d
Lab Smp Id: LV3RP1AC 0060203 A0
Inj Date : 03-MAR-2010 09:28
Operator : NS Inst ID: LC10.i
Smp Info : LV3RP1AC 0060203 A0B250493-1;0
Misc Info : ;;;10.18;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 03-Mar-2010 09:56 kenneyf Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 34
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.180	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.415	3610	187	0.052	4.55	
6.122	2512	113	0.045	2.75	
9.432	4951	220	0.044	5.36	
10.069	598	58	0.097	1.41	
12.082	188	50	0.266	1.21	
12.639	577	42	0.073	1.02	
18.685	62533	3148	0.050	76.83	$ 1 3,4-Dinitrotoluene
24.362	753	50	0.066	1.21	
25.539	347	38	0.109	0.92	
26.335	1279	47	0.037	1.14	
28.495	2114	100	0.047	2.43	
30.272	460	48	0.104	1.17	
	79923	4101		100.000	

Total unknown % height = 23.17

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000029.d

Date : 03-MAR-2010 09:28

Client ID:

Instrument: LC10.i

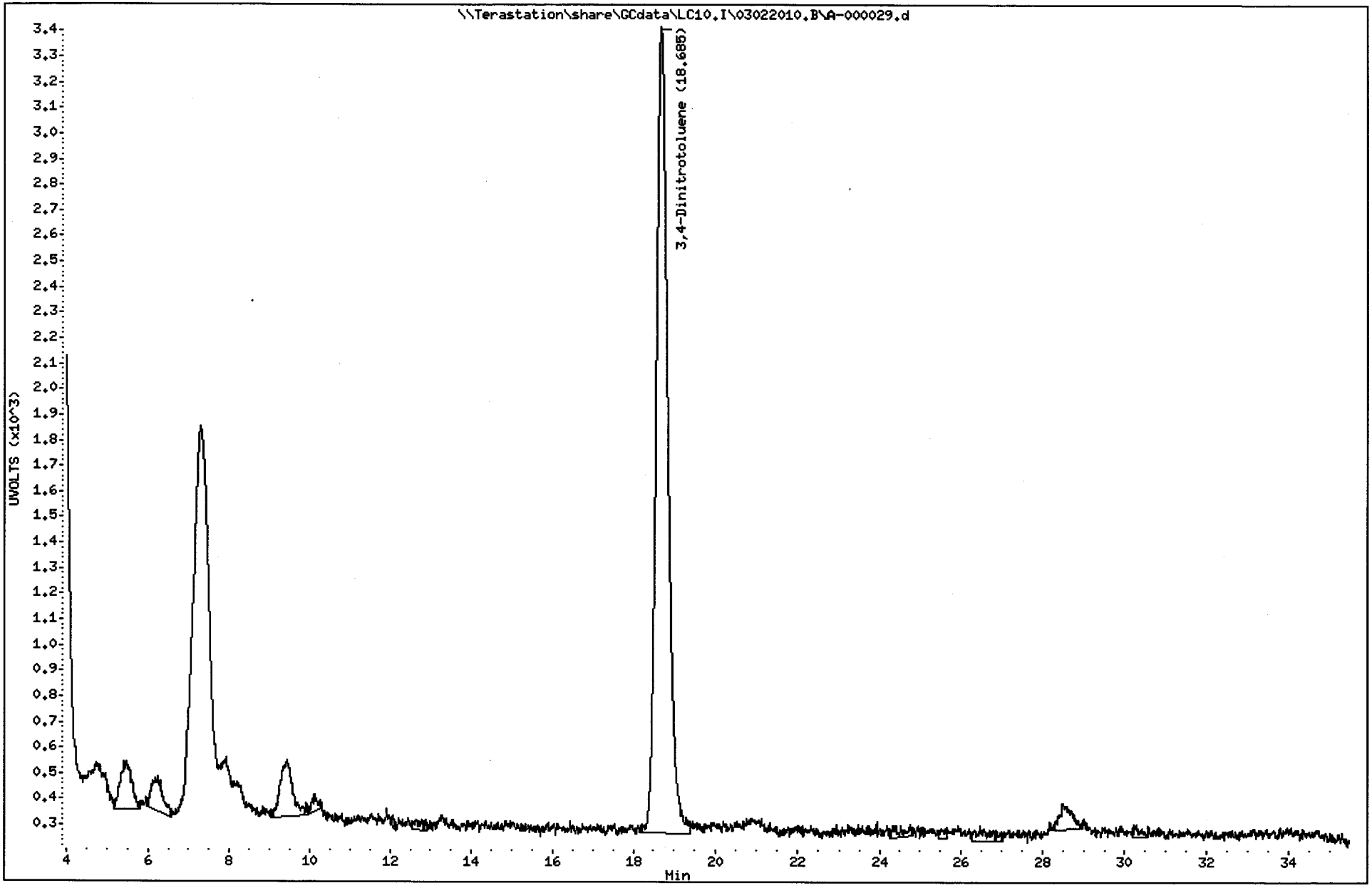
Sample Info: LV3RP1AC 0060203 A0B250493-1;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000029.d\A-000029
Lab Smp Id: LV3RP1AC 0060203 A0
Inj Date : 03-MAR-2010 09:28
Operator : NS Inst ID: LC10.i
Smp Info : LV3RP1AC 0060203 A0B250493-1;0
Misc Info : ;;;10.18;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 03-Mar-2010 06:59 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 34
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.180	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.105	3362	144	0.043	2.00	
18.692	126739	6134	0.048	85.62	$ 1 3,4-Dinitrotoluene
20.349	5563	242	0.044	3.37	
24.829	753	53	0.070	0.73	
27.132	562	44	0.078	0.61	
27.852	425	63	0.148	0.87	
28.249	1281	142	0.111	1.98	
28.552	12041	280	0.023	3.90	
30.385	779	66	0.085	0.92	
	151506	7168		100.000	

Total unknown % height = 14.38

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000029.d\A-000029.d

Date : 03-MAR-2010 09:28

Client ID:

Instrument: LC10.i

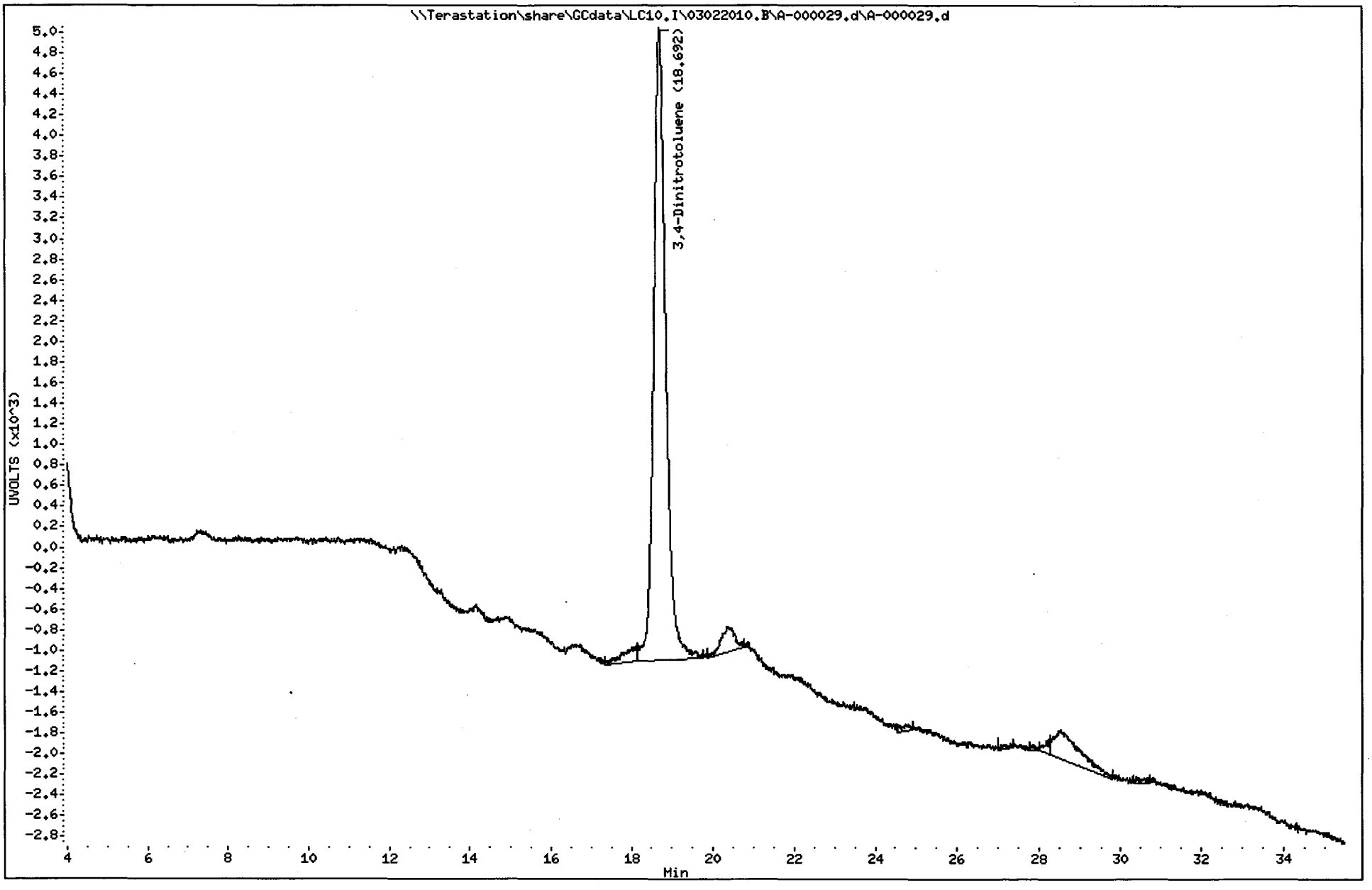
Sample Info: LV3RP1AC 0060203 A0B250493-1:0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000030.D

Chromatography Summary

Injection Date: 3/3/2010 10:17 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000030.D **Vial Num:** 35

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3RP1AD 0060203 A0B250493-1S**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.12 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:** SOLIDBQSM.sp

Samp. Info: LV3RP1AD 0060203 A0B250493-1S;3

Misc. Info: MS;;;10.12;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.67	2933	480.8000<	494.071146	97%	Acceptable		18.68	6029	488.2000	494.071146	99%	Acceptable		(81-127)	
HMX	5.44	8223	487.9000<	494.071146	99%	Acceptable					494.071146	0%	Fails		(75-125)	45
RDX	8.01	5626	492.9000<	494.071146	100%	Acceptable					494.071146	0%	Fails		(70-135)	45
Picric ACID				4940.711462	0%	Fails					4940.711462	0%	Fails		(70-130)	
1,3,5-Trinitrobenzene	10.57	10044	493.6000<	494.071146	100%	Acceptable					494.071146	0%	Fails		(75-125)	45
1,3-Dinitrobenzene	13.60	9731	489.9000<	494.071146	99%	Acceptable					494.071146	0%	Fails		(80-125)	45
TETRYL	15.08	4807	432.8000<	494.071146	88%	Acceptable					494.071146	0%	Fails		(10-150)	45
Nitrobenzene	15.45	4502	480.7000<	494.071146	97%	Acceptable					494.071146	0%	Fails		(75-125)	45
2,4,6-Trinitrotoluene	17.32	5433	449.5000<	494.071146	91%	Acceptable					494.071146	0%	Fails		(55-140)	45
4-AM-2,6-DNT	18.10	4214	467.3000<	494.071146	95%	Acceptable					494.071146	0%	Fails		(80-125)	45
2-AM-4,6-DNT	19.21	4841	471.5000<	494.071146	95%	Acceptable					494.071146	0%	Fails		(80-125)	45
2,6-Dinitrotoluene	20.96	3374	471.0000<	494.071146	95%	Acceptable					494.071146	0%	Fails		(80-120)	45
2,4-Dinitrotoluene	21.72	5496	472.9000<	494.071146	96%	Acceptable					494.071146	0%	Fails		(80-125)	45
2-Nitrotoluene	25.29	2484	482.1000<	494.071146	98%	Acceptable					494.071146	0%	Fails		(80-125)	45
4-Nitrotoluene	27.30	2959	480.2000<	494.071146	97%	Acceptable					494.071146	0%	Fails		(75-125)	45
3-Nitrotoluene	29.41	2916	480.1000<	494.071146	97%	Acceptable					494.071146	0%	Fails		(75-120)	45
Nitroglycerin				988.142292	0%	Fails		16.37	7931	999.9000<	988.142292	101%	Acceptable		(74-112)	45
PETN				988.142292	0%	Fails		32.96	3817	954.5000<	988.142292	97%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14.49	6264	480.8000<	494.071146	97%	Acceptable					494.071146	0%	Fails		(40-140)	45

mr 3/2/10

Surrogates:	Spiked	Recovered	%Rec	Spiked	Recovered	%Rec	Limits
3,4-Dinitrotoluene	**494.0711**	**480.8000**	**97**	**494.0711**	**488.2000**	**99**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/3/2010 11:58 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000030.d
Lab Smp Id: LV3RP1AD 0060203 A0
Inj Date : 03-MAR-2010 10:17
Operator : NS Inst ID: LC10.i
Smp Info : LV3RP1AD 0060203 A0B250493-1S;3
Misc Info : MS;;;10.12;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 03-Mar-2010 09:56 kenneyf Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 35 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.120	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.441	55143	8223	0.149	9.71		2 HMX
6.160	3599	153	0.043	0.18		
8.007	60307	5626	0.093	6.64		3 RDX
9.234	7678	332	0.043	0.39		
10.574	126625	10044	0.079	11.98		6 1,3,5-Trinitrobenze
13.597	154493	9731	0.063	11.49		7 1,3-Dinitrobenzene
14.487	104566	6264	0.060	7.40		8 3,5-Dinitroaniline
15.081	77996	4807	0.062	5.67		9 TETRYL
15.447	79467	4502	0.057	5.31		10 Nitrobenzene
16.294	706	65	0.092	0.07		
17.324	97990	5433	0.055	6.41		12 2,4,6-Trinitrotolue
18.097	80172	4214	0.053	4.97		13 4-AM-2,6-DNT
18.671	54462	2933	0.054	3.46	$	1 3,4-Dinitrotoluene
19.214	102283	4841	0.047	5.71		14 2-AM-4,6-DNT
20.957	68875	3374	0.049	3.98		15 2,6-Dinitrotoluene
21.721	121290	5496	0.045	6.49		16 2,4-Dinitrotoluene
25.294	65814	2484	0.038	2.93		17 2-Nitrotoluene
26.374	375	45	0.120	0.05		
27.297	84711	2959	0.035	3.49		18 4-Nitrotoluene
28.587	4712	158	0.034	0.18		
29.407	92789	2916	0.031	3.44		19 3-Nitrotoluene
32.627	139	43	0.309	0.05		
	1444191	84643		100.000		

Total unknown % height = 0.9200

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000030.d

Date : 03-MAR-2010 10:17

Client ID:

Instrument: LC10.i

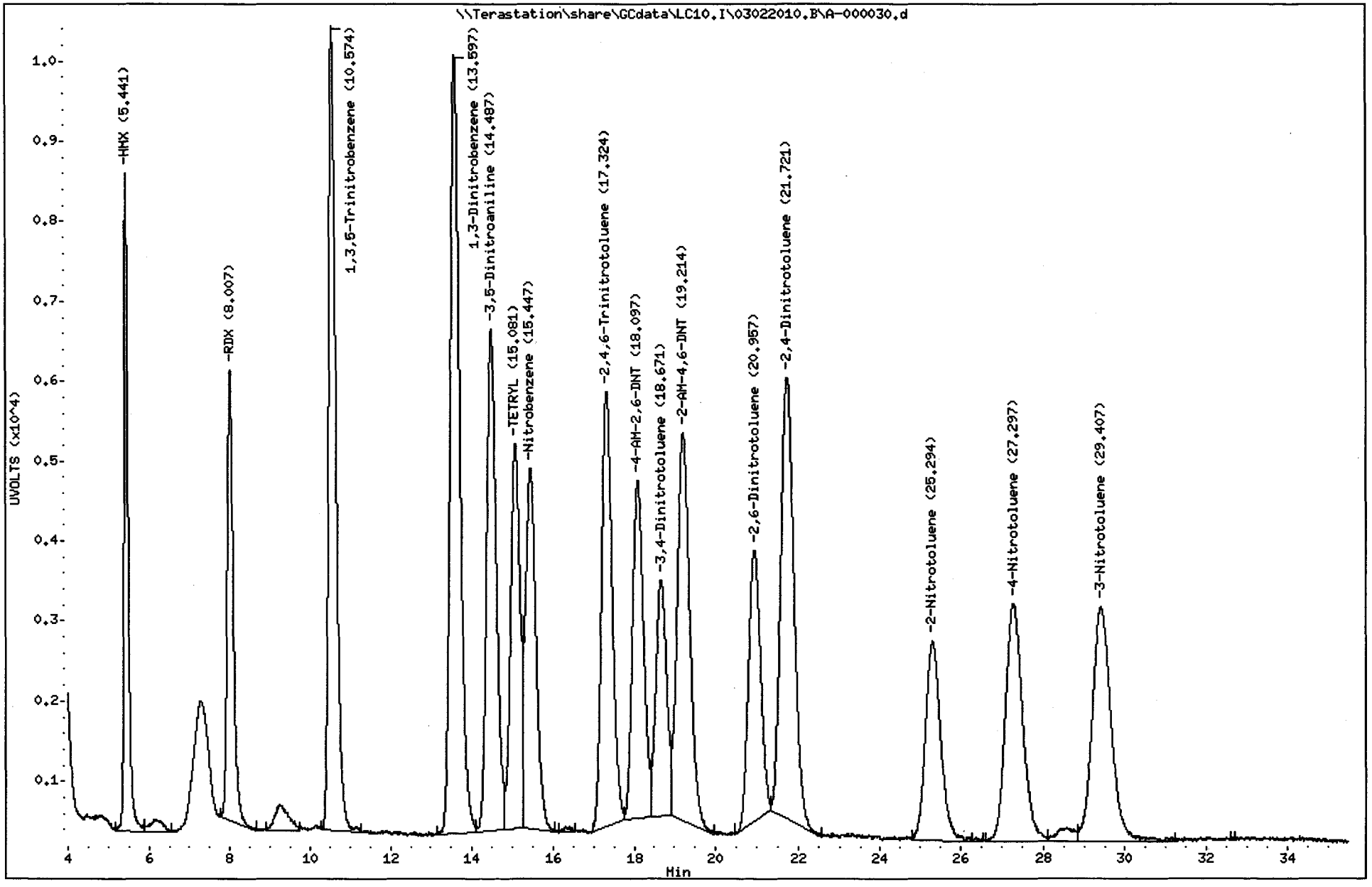
Sample Info: LV3RP1AD 0060203 A0B250493-1S;3

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000030.d\A-000030
Lab Smp Id: LV3RP1AD 0060203 A0
Inj Date : 03-MAR-2010 10:17
Operator : NS Inst ID: LC10.i
Smp Info : LV3RP1AD 0060203 A0B250493-1S;3
Misc Info : MS;;;10.12;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 03-Mar-2010 06:59 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 35 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

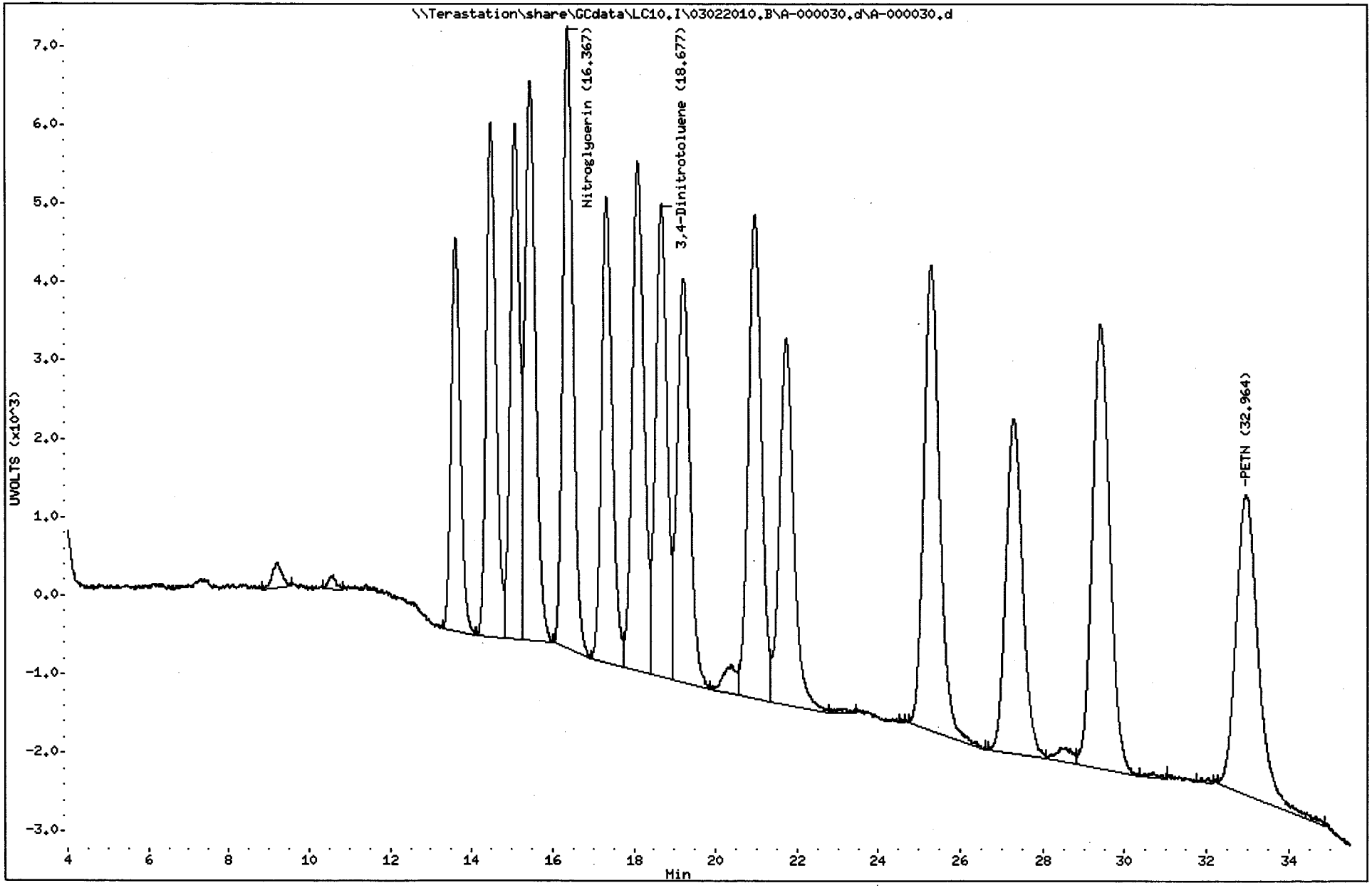
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.120	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.204	5669	327	0.058	0.36	
10.597	2319	178	0.077	0.20	
13.597	78212	5019	0.064	5.66	
14.487	109751	6558	0.060	7.40	
15.084	104157	6562	0.063	7.40	
15.454	130981	7129	0.054	8.04	
16.367	136451	7931	0.058	9.08	11 Nitroglycerin
17.324	110594	5943	0.054	6.70	
18.091	129958	6494	0.050	7.32	
18.677	117935	6029	0.051	6.80	$ 1 3,4-Dinitrotoluene
19.214	111144	5144	0.046	5.80	
20.374	7916	362	0.046	0.40	
20.957	135822	6158	0.045	6.95	
21.731	113390	4665	0.041	5.26	
23.037	1271	59	0.046	0.06	
24.544	230	44	0.192	0.04	
25.304	158257	5932	0.037	6.69	
27.307	120449	4269	0.035	4.81	
28.424	5235	185	0.035	0.20	
29.401	170060	5668	0.033	6.39	
30.691	1371	72	0.053	0.08	
31.884	680	57	0.084	0.06	
32.964	144783	3817	0.026	4.30	20 PETN
	1896635	88602		100.000	

Total unknown % height = 79.82

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000030.d\A-000030.d
Date : 03-MAR-2010 10:17
Client ID:
Instrument: LC10.i
Sample Info: LV3RP1AD 0060203 A0B250493-1S:3
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



North Canton

TestAmerica West Sacramento

A-000032.D

Chromatography Summary

Injection Date: 3/3/2010 11:54 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000032.D **Vial Num:** 36

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3RP1AE 0060203 A0B250493-1D**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:** SOLIDBQSM.sp

Samp. Info: LV3RP1AE 0060203 A0B250493-1D;3

Misc. Info: MSD;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.72	3180	527.6000<	500	106%	Acceptable		18.72	6058	496.4000	500	99%	Acceptable		(81-127)	
HMX	5.45	8134	488.4000<	500	98%	Acceptable					500	0%	Fails		(75-125)	45
RDX	8.02	5356	474.9000<	500	95%	Acceptable					500	0%	Fails		(70-135)	45
Picric ACID				5000	0%	Fails					5000	0%	Fails		(70-130)	
1,3,5-Trinitrobenzene	10.59	9926	493.6000<	500	99%	Acceptable					500	0%	Fails		(75-125)	45
1,3-Dinitrobenzene	13.63	10016	510.3000<	500	102%	Acceptable					500	0%	Fails		(80-125)	45
TETRYL	15.13	5132	467.6000<	500	94%	Acceptable					500	0%	Fails		(10-150)	45
Nitrobenzene	15.49	4686	506.4000<	500	101%	Acceptable					500	0%	Fails		(75-125)	45
2,4,6-Trinitrotoluene	17.37	5527	462.7000<	500	93%	Acceptable					500	0%	Fails		(55-140)	45
4-AM-2,6-DNT	18.15	5309	595.8000<	500	119%	Acceptable					500	0%	Fails		(80-125)	45
2-AM-4,6-DNT	19.27	5012	494.0000<	500	99%	Acceptable					500	0%	Fails		(80-125)	45
2,6-Dinitrotoluene	21.00	3821	539.8000<	500	108%	Acceptable					500	0%	Fails		(80-120)	45
2,4-Dinitrotoluene	21.77	5708	497.0000<	500	99%	Acceptable					500	0%	Fails		(80-125)	45
2-Nitrotoluene	25.35	2428	476.9000<	500	95%	Acceptable					500	0%	Fails		(80-125)	45
4-Nitrotoluene	27.36	2934	481.9000<	500	96%	Acceptable					500	0%	Fails		(75-125)	45
3-Nitrotoluene	29.49	2889	481.4000<	500	96%	Acceptable					500	0%	Fails		(75-120)	45
Nitroglycerin				1000	0%	Fails		16.41	7890	1007.0000<	1000	101%	Acceptable		(74-112)	45
PETN				1000	0%	Fails		33.05	3891	984.6000<	1000	98%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14.53	6401	497.2000<	500	99%	Acceptable					500	0%	Fails		(40-140)	45

Surrogates:	Spiked	Recovered	%Rec	Spiked	Recovered	%Rec	Limits
3,4-Dinitrotoluene	500.0000	527.6000	106	500.0000	496.4000	99	(81-127)

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/4/2010 3:25 PM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000032.d
Lab Smp Id: LV3RP1AE 0060203 A0
Inj Date : 03-MAR-2010 11:54
Operator : NS Inst ID: LC10.i
Smp Info : LV3RP1AE 0060203 A0B250493-1D;3
Misc Info : MSD;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 15:08 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 36 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
0.111	766	65	0.085	0.07			
5.451	53822	8134	0.151	9.24		2	HMX
6.131	770	66	0.086	0.07			
7.748	817	111	0.136	0.12			
8.024	55357	5356	0.097	6.09		3	RDX
8.901	1163	119	0.102	0.13			
9.278	10906	434	0.040	0.49			
10.594	128206	9926	0.077	11.28		6	1,3,5-Trinitrobenze
13.631	165003	10016	0.061	11.51		7	1,3-Dinitrobenzene
14.528	113658	6401	0.056	7.27		8	3,5-Dinitroaniline
15.128	85729	5132	0.060	5.83		9	TETRYL
15.488	88357	4686	0.053	5.32		10	Nitrobenzene
17.371	103930	5527	0.053	6.28		12	2,4,6-Trinitrotolue
18.151	107652	5309	0.049	6.03		13	4-AM-2,6-DNT
18.724	62548	3180	0.051	3.61	$	1	3,4-Dinitrotoluene
19.271	109838	5012	0.046	5.69		14	2-AM-4,6-DNT
20.514	9061	520	0.057	0.59			
21.004	88753	3821	0.043	4.34		15	2,6-Dinitrotoluene
21.774	133777	5708	0.043	6.49		16	2,4-Dinitrotoluene
25.351	65623	2428	0.037	2.76		17	2-Nitrotoluene
27.361	84581	2934	0.035	3.33		18	4-Nitrotoluene
28.538	3407	140	0.041	0.15			
29.494	91047	2889	0.032	3.28		19	3-Nitrotoluene
31.414	562	31	0.055	0.03			

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
	1565332	87945		100.000	

Total unknown % height = 1.650

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000032.d

Page 3

Date : 03-MAR-2010 11:54

Client ID:

Instrument: LC10.i

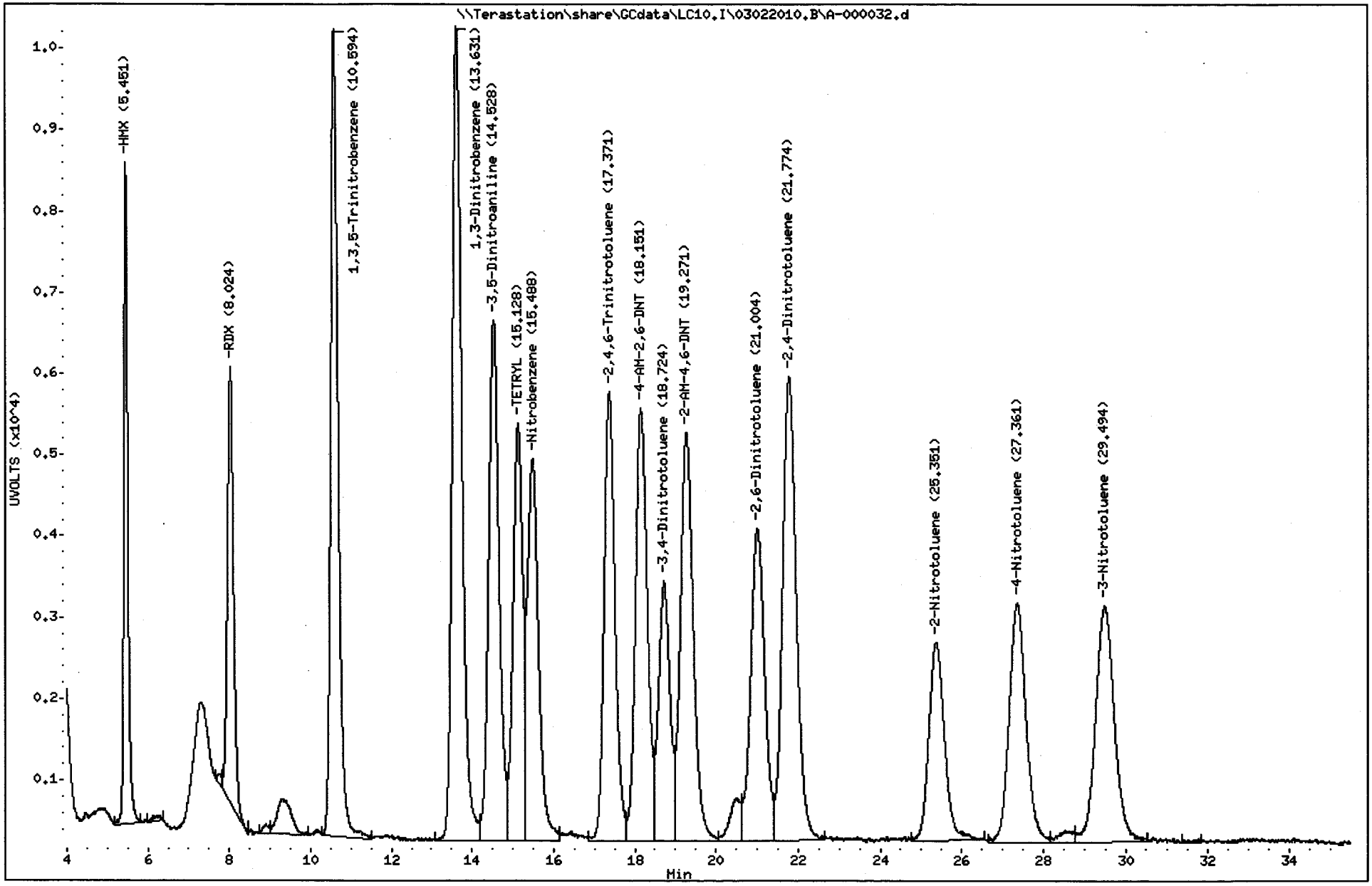
Sample Info: LV3RP1AE 0060203 A0B250493-1D;3

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000032.d\A-000032
Lab Smp Id: LV3RP1AE 0060203 A0
Inj Date : 03-MAR-2010 11:54
Operator : NS Inst ID: LC10.i
Smp Info : LV3RP1AE 0060203 A0B250493-1D;3
Misc Info : MSD;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 36 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

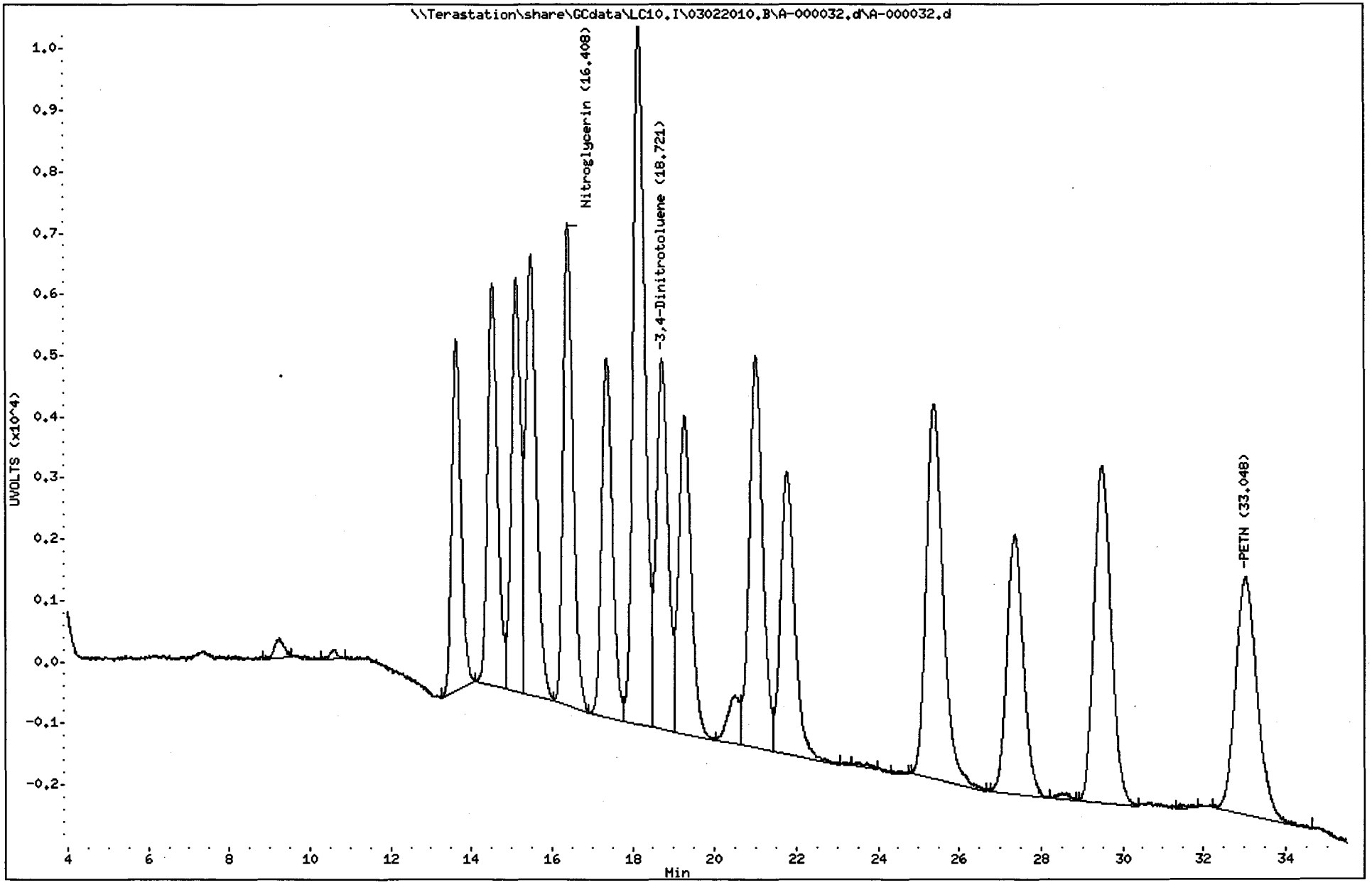
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.234	5413	327	0.060	0.34		
10.614	1997	151	0.076	0.15		
13.624	91052	5736	0.063	6.04		
14.528	113140	6570	0.058	6.91		
15.128	112166	6757	0.060	7.11		
15.494	132684	7188	0.054	7.57		
16.408	135769	7890	0.058	8.30		11 Nitroglycerin
17.368	109331	5869	0.054	6.18		
18.168	232311	11389	0.049	12.08		
18.721	119265	6058	0.051	6.38	$	1 3,4-Dinitrotoluene
19.268	111746	5189	0.046	5.46		
20.488	15966	798	0.050	0.84		
21.001	147558	6397	0.043	6.73		
21.771	110870	4613	0.042	4.85		
23.444	1449	53	0.037	0.05		
24.598	589	50	0.085	0.05		
25.368	176617	6118	0.035	6.44		
27.368	118541	4235	0.036	4.46		
28.498	2085	105	0.050	0.11		
29.498	163186	5499	0.034	5.79		
31.418	1011	68	0.067	0.07		
33.048	142584	3891	0.027	4.09		20 PETN
	2045330	94951		100.000		

Total unknown % height = 81.23

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000032.d\A-000032.d
Date : 03-MAR-2010 11:54
Client ID:
Instrument: LC10.i
Sample Info: LV3RP1AE 0060203 A0B250493-1D;3
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



North Canton

TestAmerica West Sacramento

A-000033.D

Chromatography Summary

Injection Date: 3/3/2010 12:43 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000033.D **Vial Num:** 37

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3R51AC 0060203 A0B250493-2**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	9.97 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3R51AC 0060203 A0B250493-2;0

Misc. Info: ;;;9.97;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.72**	**0.032**	**3127**	**520.3000<**		**18.71**	**0.029**	**6009**	**493.9000**		**0.0000**	**0.00**	
HMX											12.0361	251.51	
RDX											16.0481	251.51	
Picric ACID											100.3009	1006.03	
1,3,5-Trinitrobenzene											8.0241	251.51	
1,3-Dinitrobenzene											20.0602	251.51	
TETRYL											20.0602	251.51	
Nitrobenzene											20.0602	251.51	
2,4,6-Trinitrotoluene											8.0241	251.51	
4-AM-2,6-DNT											8.0241	251.51	
2-AM-4,6-DNT											40.1204	301.81	
2,6-Dinitrotoluene											12.0361	251.51	
2,4-Dinitrotoluene											8.0241	251.51	
2-Nitrotoluene											32.0963	251.51	
4-Nitrotoluene											32.0963	503.01	
3-Nitrotoluene											28.0843	251.51	
Nitroglycerin											52.1565	503.01	
PETN											64.1926	503.01	
3,5-Dinitroaniline											10.0301	1307.84	

MR 3/2/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**501.5045**	**520.3000**	**104**	**501.5045**	**493.9000**	**98**	**(81-127)**

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/3/2010 1:29 PM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000033.d
Lab Smp Id: LV3R51AC 0060203 A0
Inj Date : 03-MAR-2010 12:43
Operator : NS Inst ID: LC10.i
Smp Info : LV3R51AC 0060203 A0B250493-2;0
Misc Info : ;;;9.97;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 03-Mar-2010 09:56 kenneyf Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 37
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

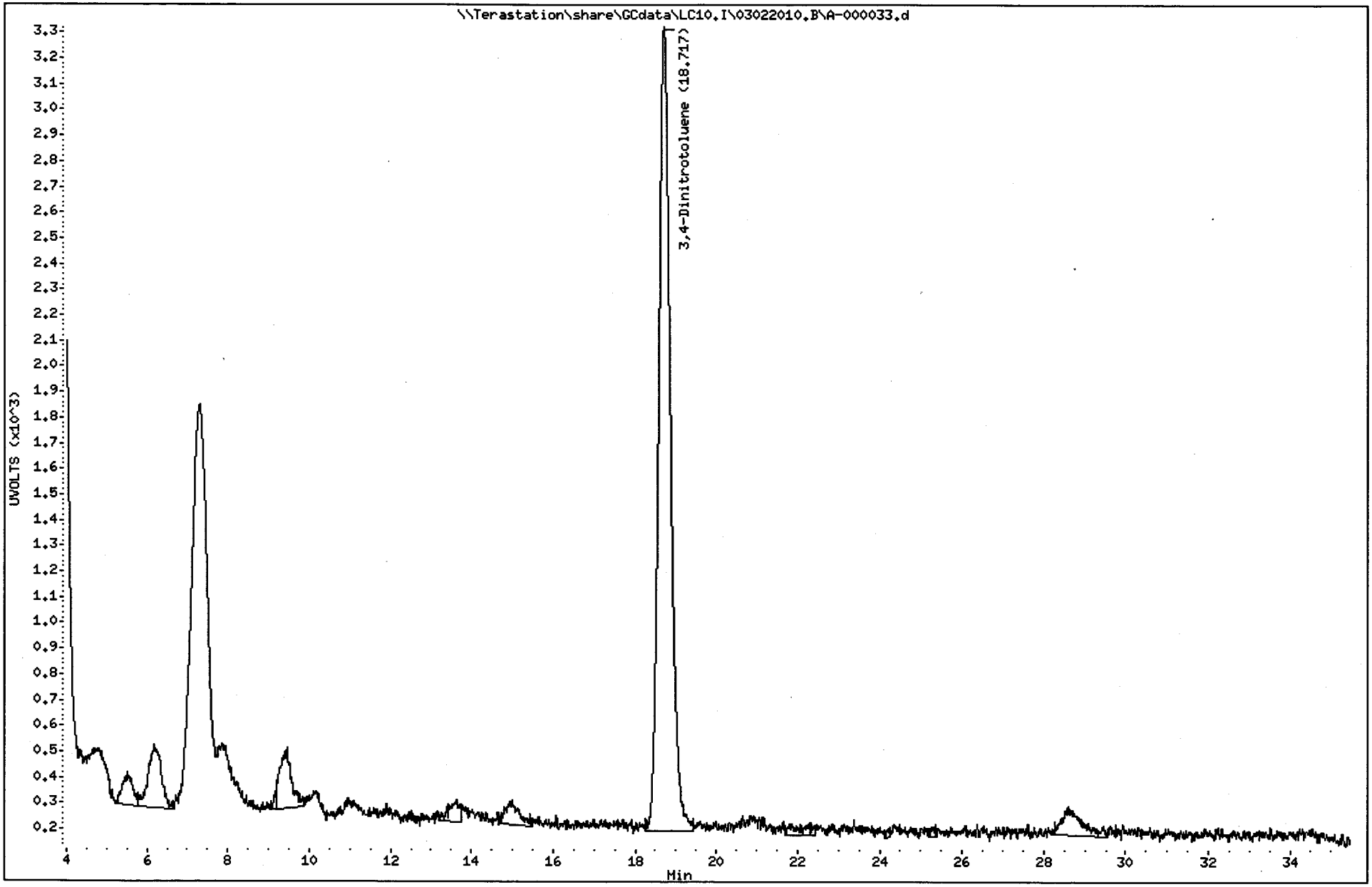
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.970	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.500	2117	130	0.061	3.09	
6.184	5599	247	0.044	5.88	
9.207	327	80	0.245	1.90	
9.394	4431	221	0.050	5.26	
13.437	1510	67	0.044	1.59	
14.947	2080	90	0.043	2.14	
18.717	62304	3127	0.050	74.58	$ 1 3,4-Dinitrotoluene
21.857	1178	45	0.038	1.07	
24.240	178	32	0.180	0.76	
25.350	260	49	0.188	1.16	
28.597	3495	108	0.031	2.57	
	83480	4196		100.000	

Total unknown % height = 25.42

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000033.d
Date : 03-MAR-2010 12:43
Client ID:
Sample Info: LV3R51AC 0060203 A0B250493-2;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



North Canton

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000033.d\A-000033
Lab Smp Id: LV3R51AC 0060203 A0
Inj Date : 03-MAR-2010 12:43
Operator : NS Inst ID: LC10.i
Smp Info : LV3R51AC 0060203 A0B250493-2;0
Misc Info : ;;;9.97;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 03-Mar-2010 06:59 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 37
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

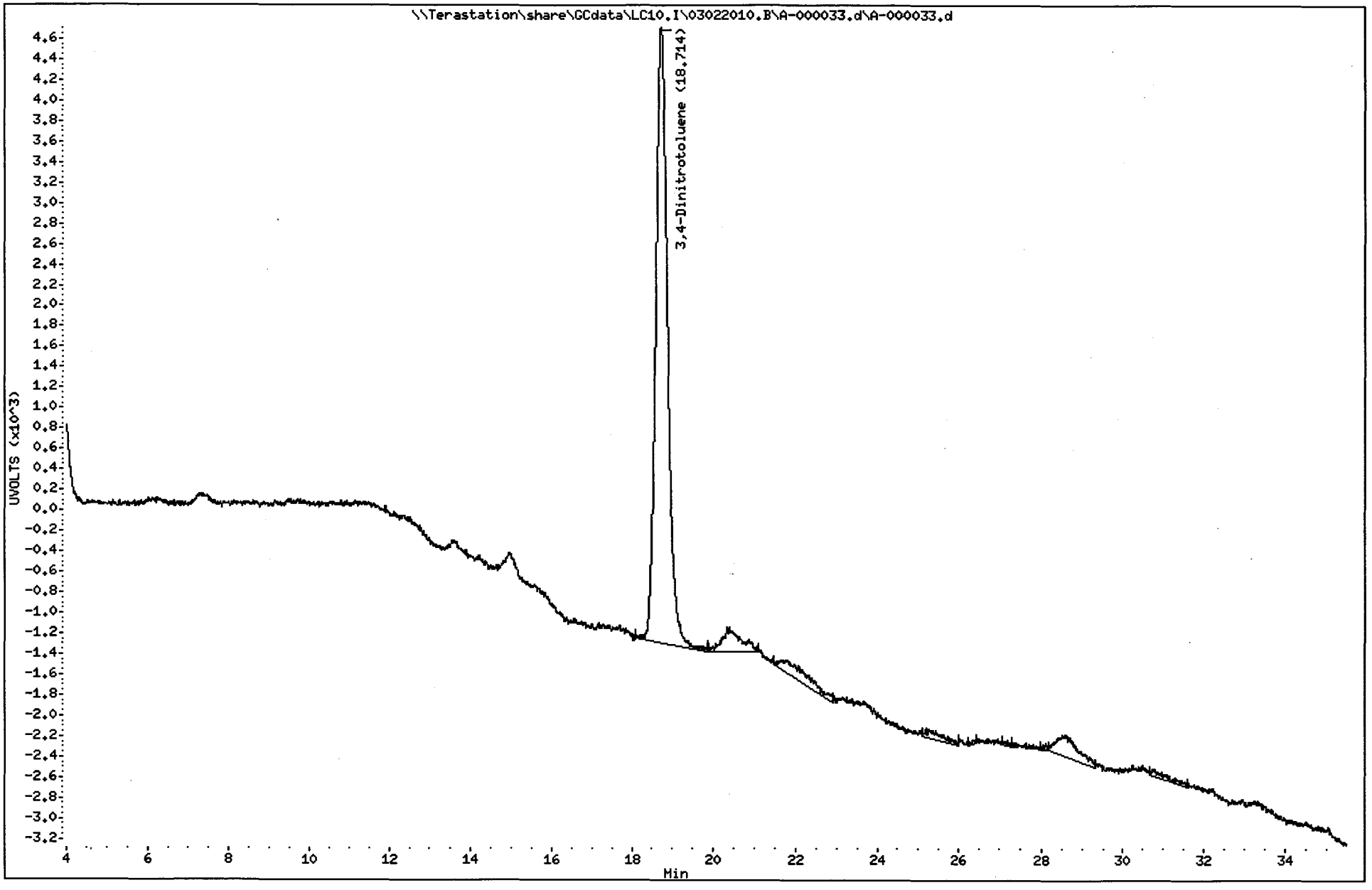
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.970	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.714	121487	6009	0.049	87.74	$ 1 3,4-Dinitrotoluene
20.387	7605	234	0.031	3.41	
21.664	6830	95	0.014	1.38	
25.174	2272	84	0.037	1.22	
26.400	251	33	0.131	0.48	
27.190	380	52	0.137	0.75	
28.104	357	64	0.179	0.93	
28.587	8054	210	0.026	3.06	
30.730	2172	71	0.033	1.03	
	149409	6852		100.000	

Total unknown % height = 12.26

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000033.d\A-000033.d
Date : 03-MAR-2010 12:43
Client ID:
Sample Info: LV3R51AC 0060203 A0B250493-2;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



North Canton

TestAmerica West Sacramento

A-000034.D

Chromatography Summary

Injection Date: 3/3/2010 13:31 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000034.D **Vial Num:** 38

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3R71AC 0060203 A0B250493-3**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.14 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3R71AC 0060203 A0B250493-3;0

Misc. Info: ;;;10.14;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.66**	**0.028**	**3166**	**518.0000<**		**18.66**	**0.024**	**6029**	**487.2000**		**0.0000**	**0.00**	
HMX											11.9329	243.14	
RDX											11.8343	243.14	
Picric ACID											98.6193	972.58	
1,3,5-Trinitrobenzene											9.8619	243.14	
1,3-Dinitrobenzene											4.1420	243.14	
TETRYL											9.8619	243.14	
Nitrobenzene											17.3570	243.14	
2,4,6-Trinitrotoluene											19.1322	243.14	
4-AM-2,6-DNT											9.8619	243.14	
2-AM-4,6-DNT											12.3274	291.77	
2,6-Dinitrotoluene											7.1992	243.14	
2,4-Dinitrotoluene											5.2268	243.14	
2-Nitrotoluene											12.8205	243.14	
4-Nitrotoluene											17.9487	486.29	
3-Nitrotoluene											15.2860	243.14	
Nitroglycerin											14.7929	486.29	
PETN											24.6548	486.29	
3,5-Dinitroaniline											8.6785	1264.35	

m 3/4/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**493.0966**	**518.0000**	**105**	**493.0966**	**487.2000**	**99**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 11:57 AM

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000034.d

Date : 03-MAR-2010 13:31

Client ID:

Instrument: LC10.i

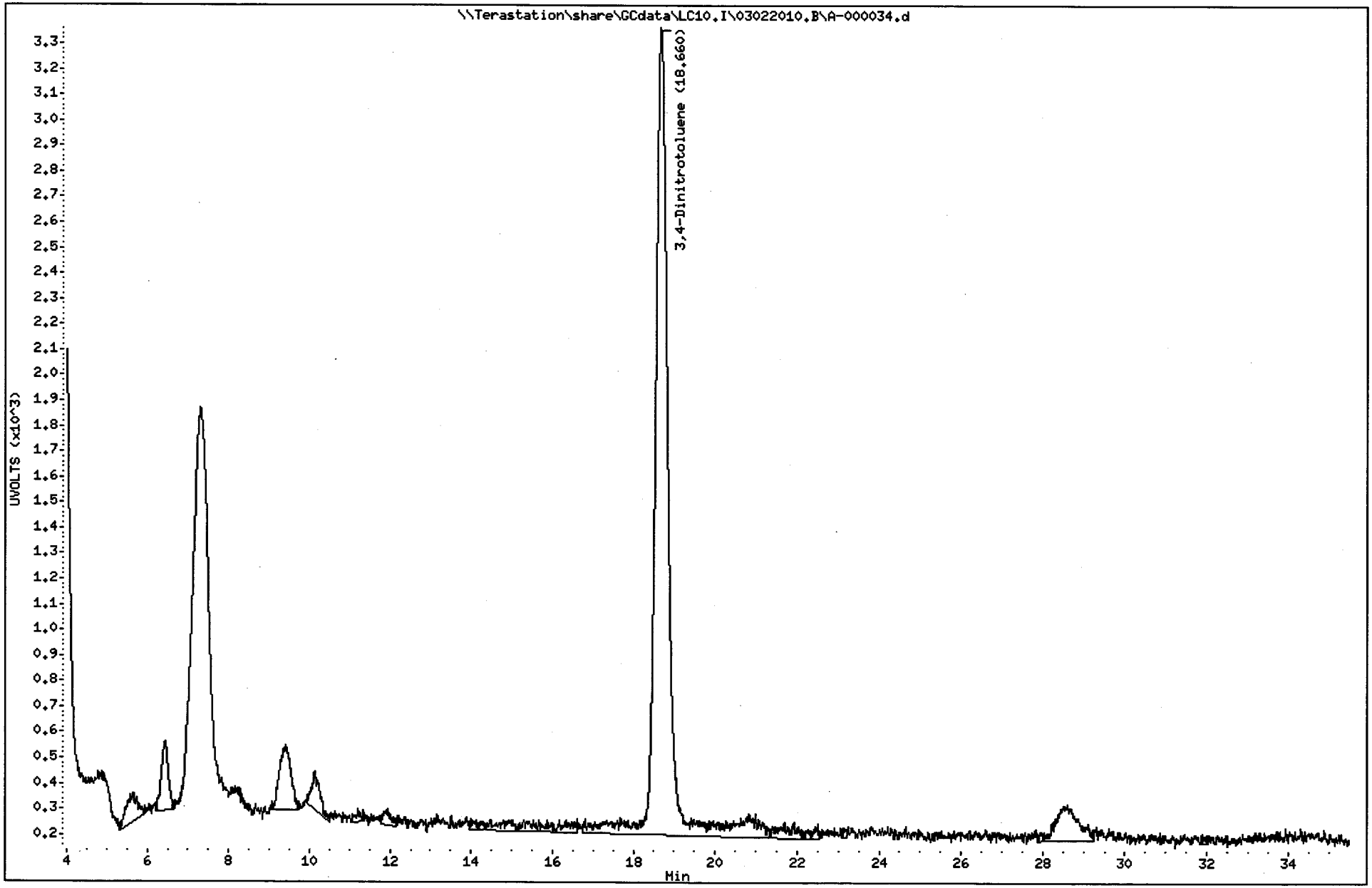
Sample Info: LV3R71AC 0060203 A0B250493-3:0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



North Canton

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000034.d
Lab Smp Id: LV3R71AC 0060203 A0
Inj Date : 03-MAR-2010 13:31
Operator : NS Inst ID: LC10.i
Smp Info : LV3R71AC 0060203 A0B250493-3;0
Misc Info : ;;;10.14;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 38
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.140	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.664	2161	109	0.050	2.48	
6.450	3231	276	0.085	6.28	
9.404	4921	254	0.052	5.78	
10.124	2039	149	0.073	3.39	
11.080	449	33	0.074	0.75	
11.897	752	52	0.069	1.18	
13.997	3817	42	0.011	0.95	
18.660	74766	3166	0.042	72.11	$ 1 3,4-Dinitrotoluene
22.500	572	59	0.103	1.34	
23.127	168	40	0.239	0.91	
27.977	202	36	0.179	0.81	
28.520	5073	137	0.027	3.11	
31.900	160	40	0.250	0.91	
	98310	4393		100.000	

Total unknown % height = 27.89

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000034.d\A-000034
Lab Smp Id: LV3R71AC 0060203 A0
Inj Date : 03-MAR-2010 13:31
Operator : NS Inst ID: LC10.i
Smp Info : LV3R71AC 0060203 A0B250493-3;0
Misc Info : ;;;10.14;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 38
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

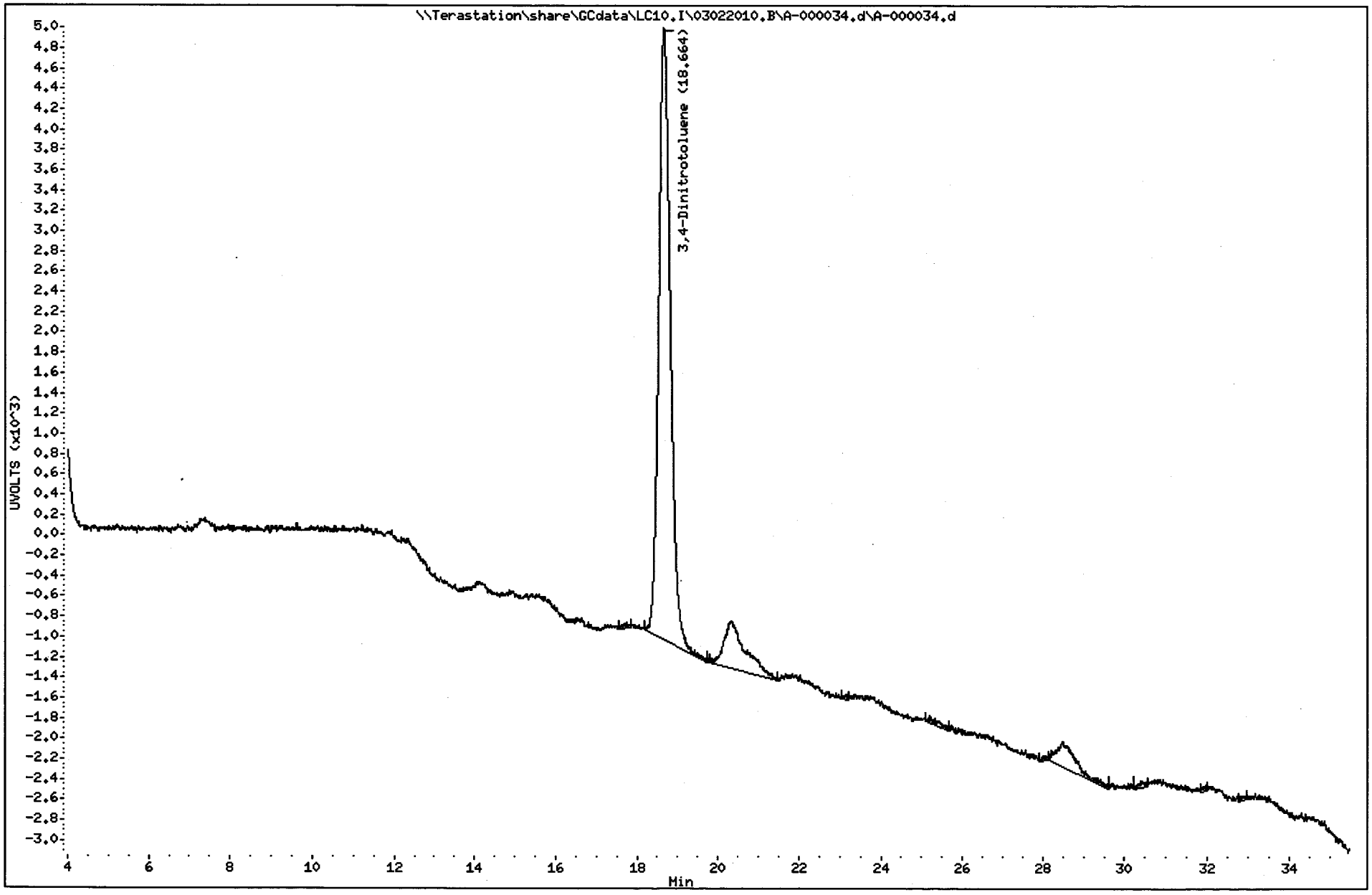
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.140	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.754	497	59	0.119	0.82	
18.664	119793	6029	0.050	84.63	$ 1 3,4-Dinitrotoluene
20.323	17111	457	0.027	6.41	
23.160	274	50	0.182	0.70	
25.200	1098	78	0.071	1.09	
28.067	382	46	0.120	0.64	
28.504	8303	246	0.030	3.45	
30.407	568	58	0.102	0.81	
31.980	344	55	0.160	0.77	
32.867	387	49	0.126	0.68	
	148757	7127		100.000	

Total unknown % height = 15.37

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000034.d\A-000034.d
Date : 03-MAR-2010 13:31
Client ID:
Instrument: LC10.i
Sample Info: LV3R71AC 0060203 A0B250493-3:0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



North Canton

TestAmerica West Sacramento

A-000035.D

Chromatography Summary

Injection Date: 3/3/2010 14:20 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000035.D **Vial Num:** 39

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3R91AC 0060203 A0B250493-4**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.03 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3R91AC 0060203 A0B250493-4;0

Misc. Info: ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.68**	**0.048**	**3198**	**529.0000<**		**18.68**	**0.038**	**6127**	**500.6000**		**0.0000**	**0.00**	
HMX											12.0638	248.51	
RDX											11.9641	248.51	
Picric ACID											99.7009	994.03	
1,3,5-Trinitrobenzene											9.9701	248.51	
1,3-Dinitrobenzene											4.1874	248.51	
TETRYL											9.9701	248.51	
Nitrobenzene											17.5474	248.51	
2,4,6-Trinitrotoluene											19.3420	248.51	
4-AM-2,6-DNT											9.9701	248.51	
2-AM-4,6-DNT											12.4626	298.21	
2,6-Dinitrotoluene											7.2782	248.51	
2,4-Dinitrotoluene											5.2841	248.51	
2-Nitrotoluene											12.9611	248.51	
4-Nitrotoluene											18.1456	497.01	
3-Nitrotoluene											15.4536	248.51	
Nitroglycerin											14.9551	497.01	
PETN											24.9252	497.01	
3,5-Dinitroaniline											8.7737	1292.23	

mr 3/4/10

✓

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**498.5045**	**529.0000**	**106**	**498.5045**	**500.6000**	**100**	**(81-127)**

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed: 3/4/2010 11:57 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000035.d
Lab Smp Id: LV3R91AC 0060203 A0
Inj Date : 03-MAR-2010 14:20
Operator : NS Inst ID: LC10.i
Smp Info : LV3R91AC 0060203 A0B250493-4;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 39
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.501	157	0	0.000	0.00		2 HMX
6.457	822	86	0.105	2.06		
9.424	5893	252	0.043	6.05		
10.177	2742	164	0.060	3.94		
13.641	718	41	0.057	0.98		
14.927	2119	58	0.027	1.39		
15.584	3813	52	0.014	1.25		
18.681	75975	3198	0.042	76.94	$	1 3,4-Dinitrotoluene
25.351	810	47	0.058	1.13		
28.587	4647	158	0.034	3.79		
31.114	288	55	0.191	1.32		
31.587	831	48	0.058	1.15		
	98814	4159		100.000		

Total unknown % height = 23.06

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000035.d

Date : 03-MAR-2010 14:20

Client ID:

Instrument: LC10.i

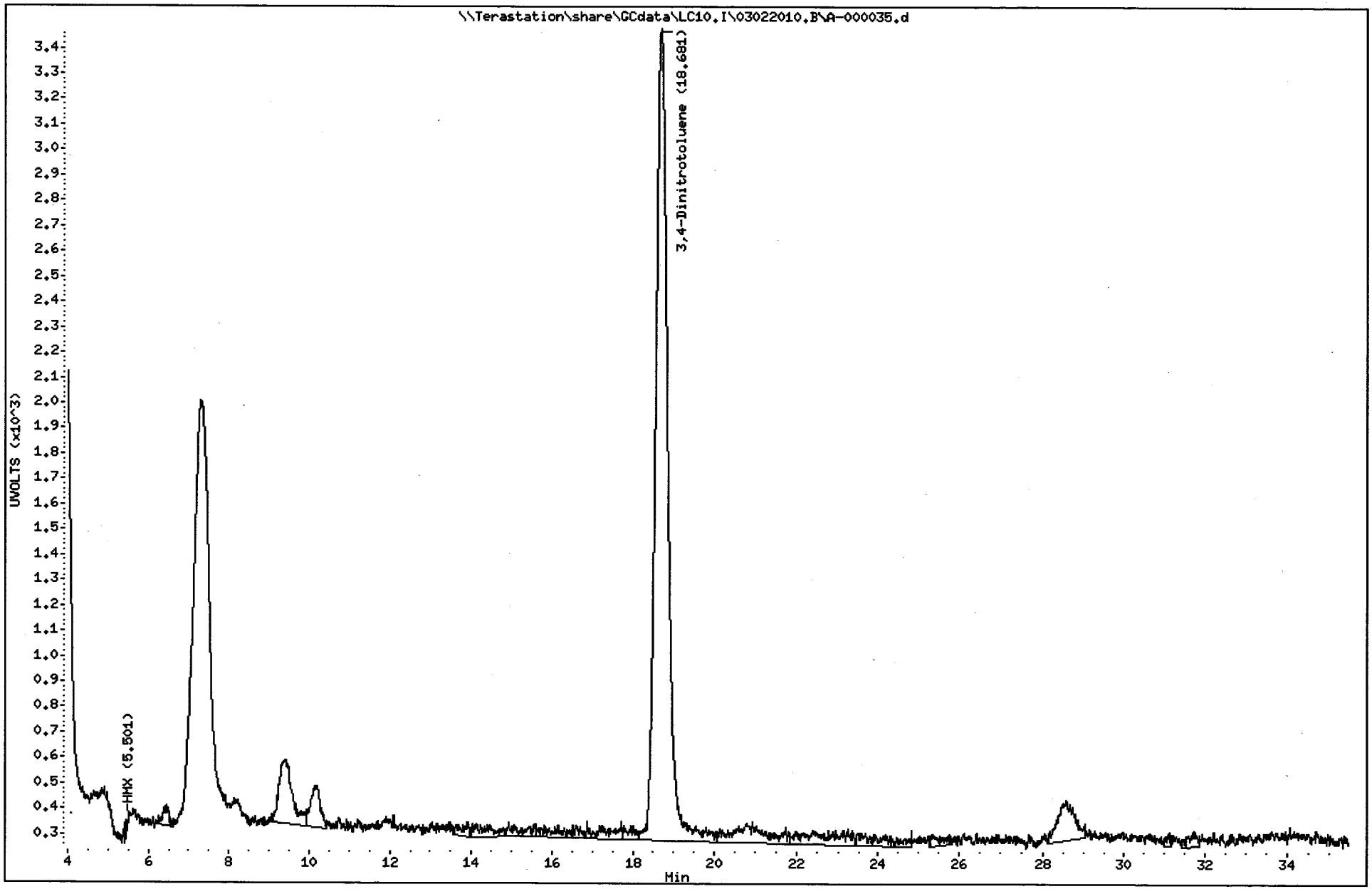
Sample Info: LV3R91AC 0060203 A0B250493-4;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000035.d\A-000035
Lab Smp Id: LV3R91AC 0060203 A0
Inj Date : 03-MAR-2010 14:20
Operator : NS Inst ID: LC10.i
Smp Info : LV3R91AC 0060203 A0B250493-4;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 39
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.717	1808	76	0.042	1.02	
18.677	121678	6127	0.050	82.32	$ 1 3,4-Dinitrotoluene
20.344	15256	358	0.023	4.80	
26.897	1113	52	0.047	0.69	
27.771	1812	93	0.051	1.24	
28.051	1348	126	0.093	1.69	
28.514	12353	328	0.027	4.40	
29.691	405	62	0.153	0.83	
30.297	4427	116	0.026	1.55	
32.904	495	53	0.107	0.71	
34.547	1097	56	0.051	0.75	
	161793	7447		100.000	

Total unknown % height = 17.68

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000035.d\A-000035.d

Date : 03-MAR-2010 14:20

Client ID:

Instrument: LC10.i

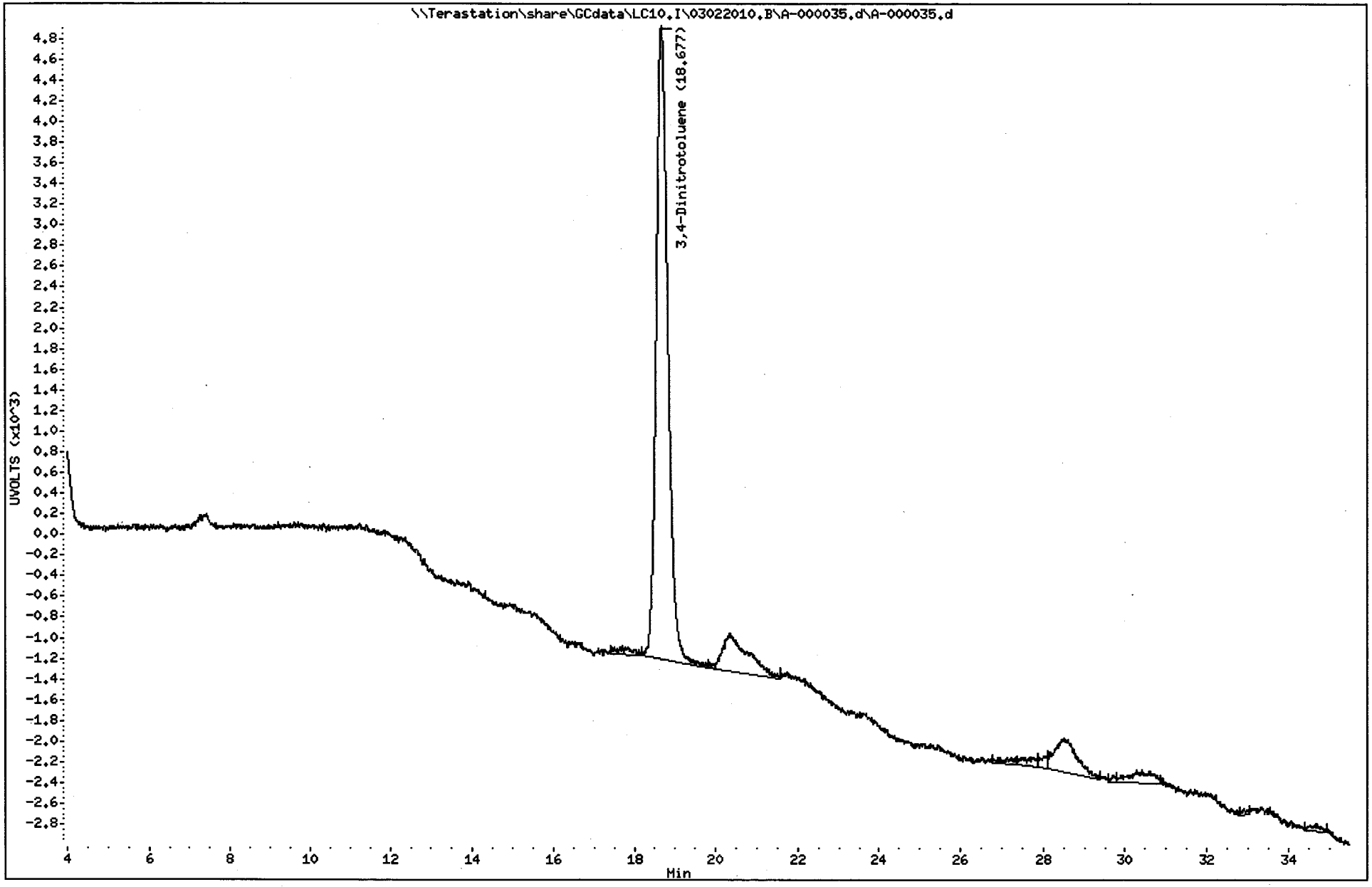
Sample Info: LV3R91AC 0060203 A0B250493-4;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000036.D

Chromatography Summary

Injection Date: 3/3/2010 15:08 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000036.D **Vial Num:** 40

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3TC1AC 0060203 A0B250493-5**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.1 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3TC1AC 0060203 A0B250493-5;0

Misc. Info: ;;;10.10;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.70**	**0.063**	**3170**	**520.7000<**		**18.70**	**0.057**	**6044**	**490.4000**		**0.0000**	**0.00**	
HMX											11.9802	245.07	
RDX											11.8812	245.07	
Picric ACID											99.0099	980.30	
1,3,5-Trinitrobenzene											9.9010	245.07	
1,3-Dinitrobenzene											4.1584	245.07	
TETRYL											9.9010	245.07	
Nitrobenzene											17.4257	245.07	
2,4,6-Trinitrotoluene											19.2079	245.07	
4-AM-2,6-DNT											9.9010	245.07	
2-AM-4,6-DNT											12.3762	294.09	
2,6-Dinitrotoluene											7.2277	245.07	
2,4-Dinitrotoluene											5.2475	245.07	
2-Nitrotoluene											12.8713	245.07	
4-Nitrotoluene											18.0198	490.15	
3-Nitrotoluene											15.3465	245.07	
Nitroglycerin											14.8515	490.15	
PETN											24.7525	490.15	
3,5-Dinitroaniline											8.7129	1274.38	

mr 3/4/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**495.0495**	**520.7000**	**105**	**495.0495**	**490.4000**	**99**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 11:58 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000036.d
Lab Smp Id: LV3TC1AC 0060203 A0
Inj Date : 03-MAR-2010 15:08
Operator : NS Inst ID: LC10.i
Smp Info : LV3TC1AC 0060203 A0B250493-5;0
Misc Info : ;;;10.10;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 40
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.100	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.589	1490	89	0.060	2.19	
8.863	238	37	0.156	0.91	
9.393	5425	214	0.039	5.27	
10.159	3248	185	0.057	4.56	
11.283	325	37	0.114	0.91	
12.943	499	40	0.080	0.98	
13.366	1255	44	0.035	1.08	
14.103	348	47	0.135	1.15	
17.699	689	44	0.064	1.08	
18.696	64826	3170	0.049	78.26	$ 1 3,4-Dinitrotoluene
23.369	2181	57	0.026	1.40	
28.429	681	56	0.082	1.38	
33.532	195	34	0.174	0.83	
	81401	4054		100.000	

Total unknown % height = 21.74

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000036.d

Date : 03-MAR-2010 15:08

Client ID:

Instrument: LC10.i

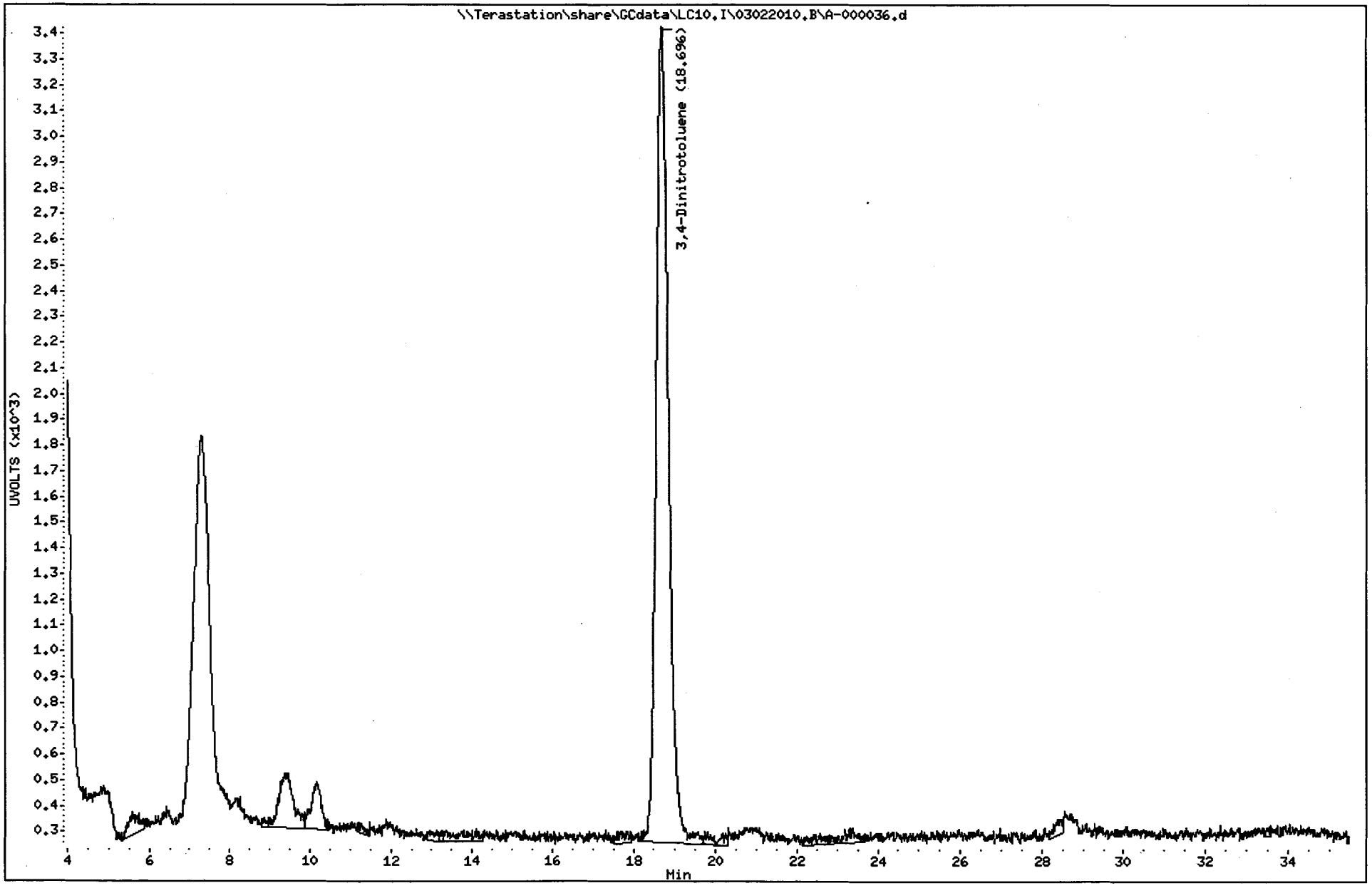
Sample Info: LV3TC1AC 0060203 A0B250493-5;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



North Canton

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000036.d\A-000036
Lab Smp Id: LV3TC1AC 0060203 A0
Inj Date : 03-MAR-2010 15:08
Operator : NS Inst ID: LC10.i
Smp Info : LV3TC1AC 0060203 A0B250493-5;0
Misc Info : ;;;10.10;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 40
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

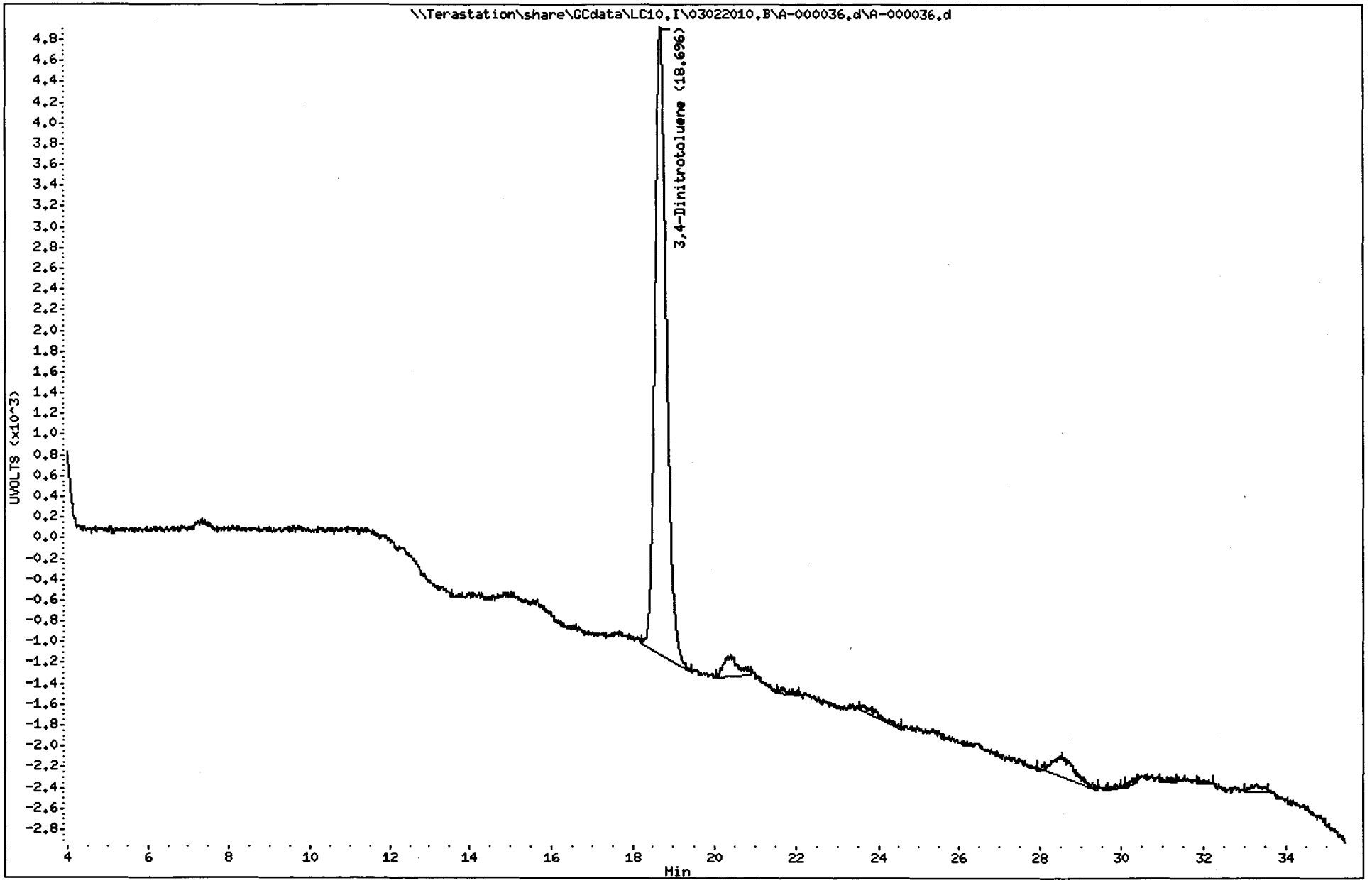
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.100	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.696	118409	6044	0.051	87.14	$ 1 3,4-Dinitrotoluene
20.399	5485	210	0.038	3.02	
21.573	1045	54	0.052	0.77	
23.653	2439	65	0.027	0.93	
28.079	234	52	0.222	0.74	
28.539	7370	231	0.031	3.32	
29.846	513	52	0.101	0.74	
30.339	534	46	0.086	0.66	
31.099	587	51	0.087	0.73	
31.869	525	67	0.128	0.96	
33.196	1499	69	0.046	0.99	
	138639	6941		100.000	

Total unknown % height = 12.86

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000036.d\A-000036.d
Date : 03-MAR-2010 15:08
Client ID:
Sample Info: LV3TC1AC 0060203 A0B250493-5:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



North Canton

TestAmerica West Sacramento

A-000037.D

Chromatography Summary

Injection Date: 3/3/2010 15:57 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000037.D **Vial Num:** 4

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.69	4674	96.9200<	100	-3%	Acceptable		18.69	9646	98.8100	100	-1%	Acceptable		(±15)	
HMX	5.45	13071	98.1200<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
RDX	8.02	9153	101.4000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Picric ACID	9.26	18445	210.4000	200	5%	Acceptable		9.26	27231	211.6000<	200	6%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.59	16105	100.1000<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
1,3-Dinitrobenzene	13.61	15614	99.4400<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
TETRYL	15.10	8097	92.2200<	100	-8%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitrobenzene	15.47	7300	98.6000<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4,6-Trinitrotoluene	17.34	8996	94.1500<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-AM-2,6-DNT	18.11	6840	95.9500<	100	-4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-AM-4,6-DNT	19.24	7775	95.7900<	100	-4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,6-Dinitrotoluene	20.97	5400	95.3500<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4-Dinitrotoluene	21.75	8817	95.9600<	100	-4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-Nitrotoluene	25.33	3974	97.5800<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-Nitrotoluene	27.31	4764	97.8000<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
3-Nitrotoluene	29.43	4658	97.0200<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitroglycerin				**100**	**-100%**	**Fails**		16.38	6276	100.1000<	100	0%	Acceptable		(±15)	45
PETN				**100**	**-100%**	**Fails**		32.95	3021	95.5600<	100	-4%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.51	10160	98.6600<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
EGDN				**100**	**-100%**	**Fails**					**100**	**-100%**	**Fails**		(±15)	

MR 3/4/10

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/4/2010 10:26 AM

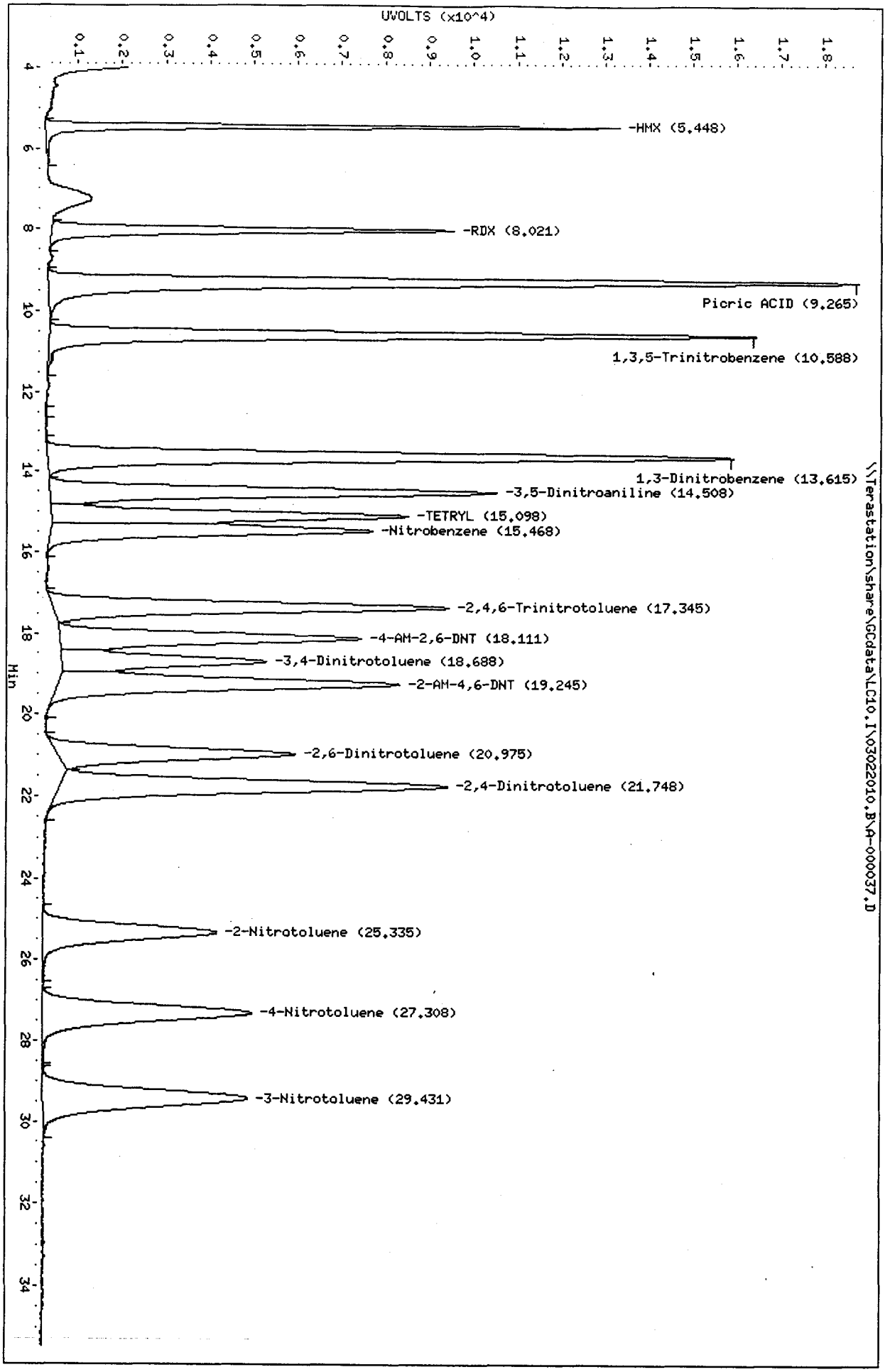
Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000037.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 03-MAR-2010 15:57
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 03-Mar-2010 16:41 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.448	85724	13071	0.152	8.49		2	HMX
8.021	94861	9153	0.096	5.94		3	RDX
9.265	249842	18445	0.074	12.08		5	Picric ACID
10.588	205018	16105	0.079	10.46		6	1,3,5-Trinitrobenze
12.461	361	43	0.119	0.02			
13.615	244480	15614	0.064	10.14		7	1,3-Dinitrobenzene
14.508	167358	10160	0.061	6.60		8	3,5-Dinitroaniline
15.098	128829	8097	0.063	5.26		9	TETRYL
15.468	128623	7300	0.057	4.74		10	Nitrobenzene
17.345	160484	8996	0.056	5.84		12	2,4,6-Trinitrotolue
18.111	128603	6840	0.053	4.44		13	4-AM-2,6-DNT
18.688	86682	4674	0.054	3.03	$	1	3,4-Dinitrotoluene
19.245	162229	7775	0.048	5.05		14	2-AM-4,6-DNT
20.975	109731	5400	0.049	3.50		15	2,6-Dinitrotoluene
21.748	192619	8817	0.046	5.72		16	2,4-Dinitrotoluene
25.335	105697	3974	0.038	2.58		17	2-Nitrotoluene
27.308	135434	4764	0.035	3.09		18	4-Nitrotoluene
29.431	141622	4658	0.033	3.02		19	3-Nitrotoluene
	2528196	153886		100.000			

Total unknown % height = 0.02000



Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000037.D
Date : 03-MAR-2010 15:57
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i

Column phase: SYNERGI HYDRORP C18

Operator: NS
Column diameter: 4.60

Test America West Sacramento

Method 8330

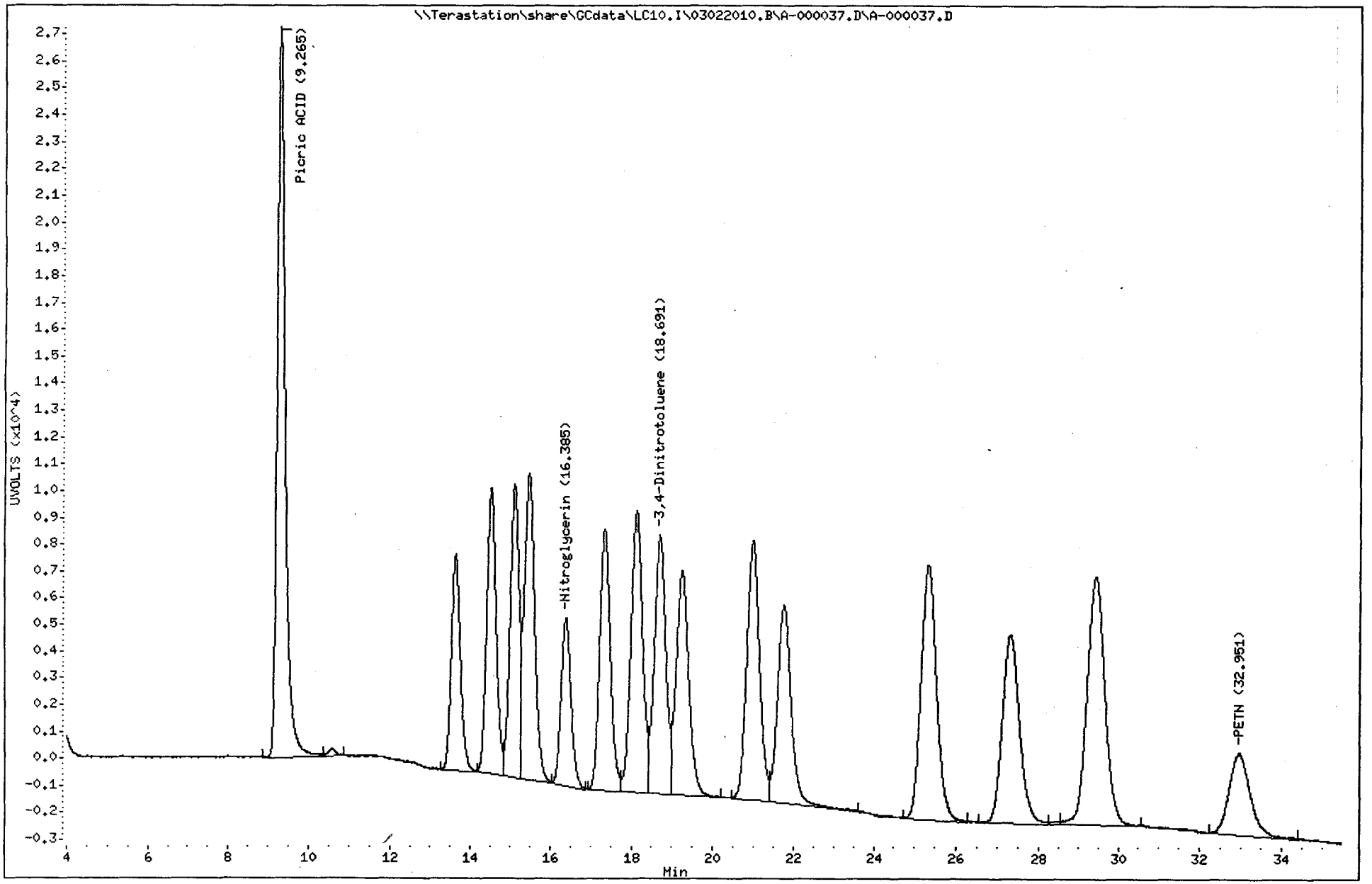
Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000037.D\A-000037
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 03-MAR-2010 15:57
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 03-Mar-2010 16:41 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.265	369661	27231	0.074	17.18		5 Picric ACID
10.591	3501	281	0.080	0.17		
13.618	126041	8103	0.064	5.08		
14.508	175754	10663	0.061	6.69		
15.098	173922	10947	0.063	6.87		
15.468	204044	11441	0.056	7.18		
16.385	106344	6276	0.059	3.94		11 Nitroglycerin
17.348	179808	9772	0.054	6.13		
18.111	209254	10542	0.050	6.62		
18.691	188643	9646	0.051	6.05	$	1 3,4-Dinitrotoluene
19.241	181724	8400	0.046	5.27		
20.971	212746	9711	0.046	6.09		
21.741	178842	7390	0.041	4.64		
25.331	247793	9484	0.038	5.95		
27.308	199525	6999	0.035	4.39		
28.481	1635	114	0.070	0.07		
29.428	282524	9223	0.033	5.79		
32.951	109570	3021	0.028	1.89		20 PETN
	3151329	159244		100.000		

Total unknown % height = 70.94

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000037.D\A-000037.D
Date : 03-MAR-2010 15:57
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



North Canton

TestAmerica West Sacramento

A-000038.D

Chromatography Summary

Injection Date: 3/3/2010 16:45 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000038.D **Vial Num:** 41

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3TC1AD 0060203 A0B250493-5 DUP**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.16 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3TC1AD 0060203 A0B250493-5 DUP;0

Misc. Info: ;;;10.16;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.68**	**0.046**	**3159**	**515.8000<**		**18.69**	**0.046**	**6134**	**494.8000**		**0.0000**	**0.00**	
HMX											11.9094	242.19	
RDX											11.8110	242.19	
Picric ACID											98.4252	968.75	
1,3,5-Trinitrobenzene											9.8425	242.19	
1,3-Dinitrobenzene											4.1339	242.19	
TETRYL											9.8425	242.19	
Nitrobenzene											17.3228	242.19	
2,4,6-Trinitrotoluene											19.0945	242.19	
4-AM-2,6-DNT											9.8425	242.19	
2-AM-4,6-DNT											12.3032	290.63	
2,6-Dinitrotoluene											7.1850	242.19	
2,4-Dinitrotoluene											5.2165	242.19	
2-Nitrotoluene											12.7953	242.19	
4-Nitrotoluene											17.9134	484.38	
3-Nitrotoluene											15.2559	242.19	
Nitroglycerin											14.7638	484.38	
PETN											24.6063	484.38	
3,5-Dinitroaniline											8.6614	1259.38	

PR 3/4/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**492.1260**	**515.8000**	**105**	**492.1260**	**494.8000**	**101**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 11:59 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000038.d
Lab Smp Id: LV3TC1AD 0060203 A0
Inj Date : 03-MAR-2010 16:45
Operator : NS Inst ID: LC10.i
Smp Info : LV3TC1AD 0060203 A0B250493-5 DUP;0
Misc Info : ;;;10.16;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 41
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.160	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
0.056	116	39	0.336	0.94	
5.552	1109	78	0.070	1.89	
9.346	3916	184	0.047	4.47	
9.896	543	76	0.140	1.84	
10.149	3794	193	0.051	4.69	
11.076	920	43	0.047	1.04	
13.819	210	52	0.248	1.26	
14.876	2721	57	0.021	1.38	
15.742	2153	46	0.021	1.11	
18.679	70574	3159	0.045	76.91	$ 1 3,4-Dinitrotoluene
25.966	2802	51	0.018	1.24	
28.532	3864	133	0.034	3.23	
	92720	4111		100.000	

Total unknown % height = 23.09

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000038.d

Date : 03-MAR-2010 16:45

Client ID:

Instrument: LC10.i

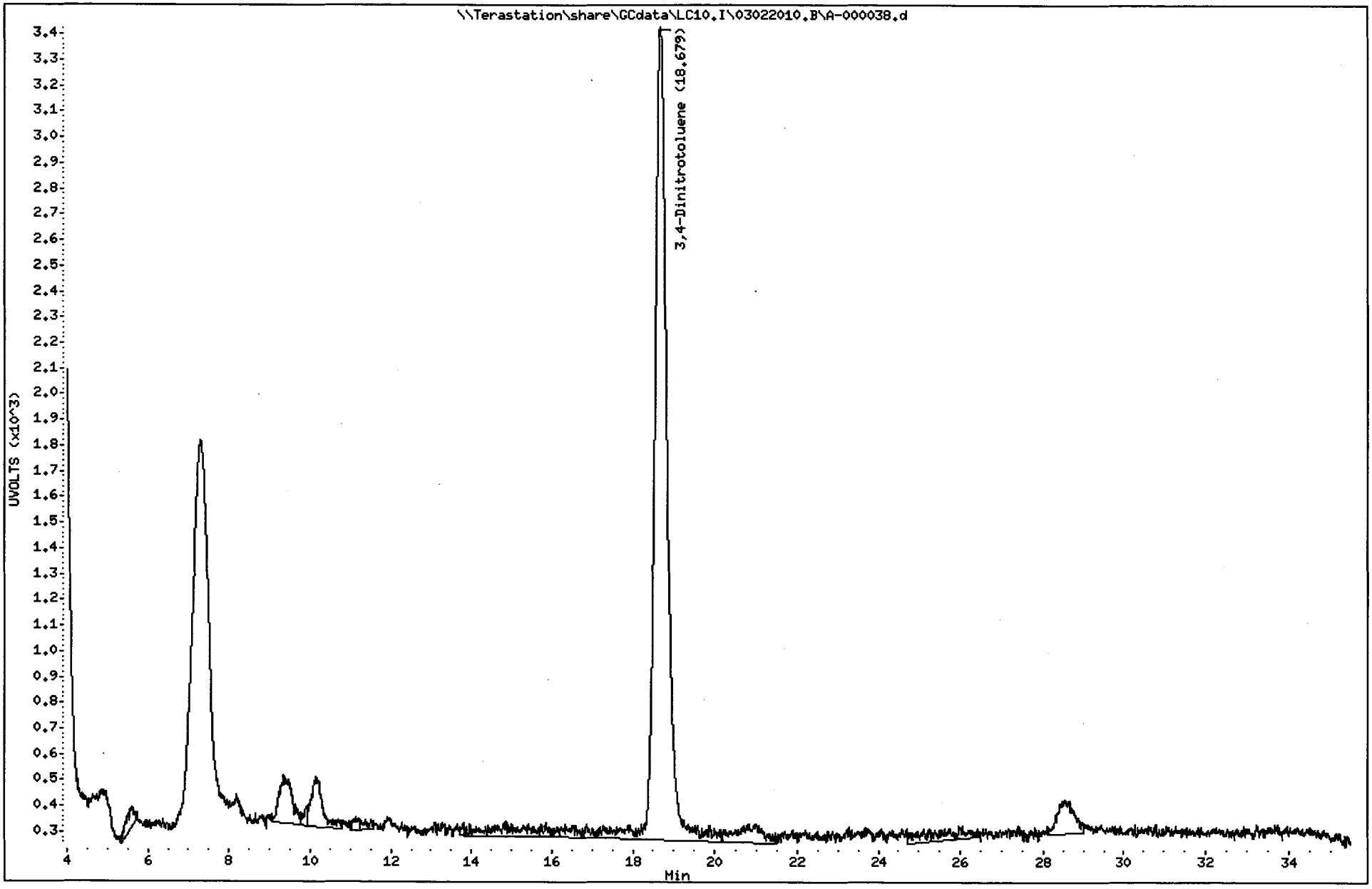
Sample Info: LV3TC1AD 0060203 A0B250493-5 DUP;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000038.d\A-000038
Lab Smp Id: LV3TC1AD 0060203 A0
Inj Date : 03-MAR-2010 16:45
Operator : NS Inst ID: LC10.i
Smp Info : LV3TC1AD 0060203 A0B250493-5 DUP;0
Misc Info : ;;;10.16;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 41
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

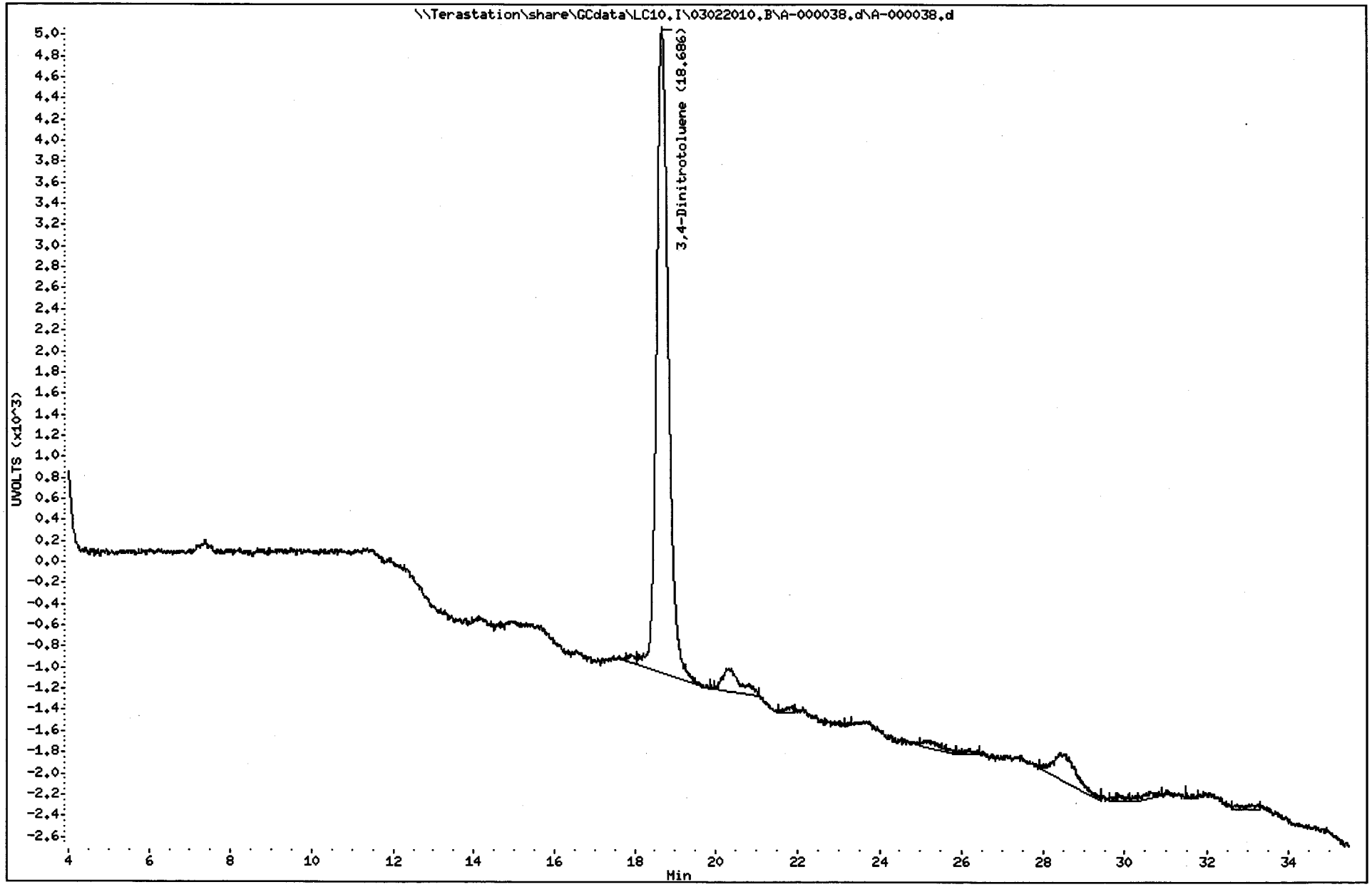
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.160	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.902	882	80	0.091	1.12	
18.686	125553	6134	0.049	85.99	$ 1 3,4-Dinitrotoluene
20.332	6821	215	0.032	3.01	
21.765	732	57	0.078	0.79	
23.256	165	30	0.182	0.42	
25.126	2127	59	0.028	0.82	
25.992	800	49	0.061	0.68	
28.422	10749	256	0.024	3.58	
29.802	1076	72	0.067	1.00	
30.282	349	48	0.138	0.67	
30.526	1172	52	0.044	0.72	
31.619	412	40	0.097	0.56	
32.749	1379	46	0.033	0.64	
	152218	7138		100.000	

Total unknown % height = 14.01

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000038.d\A-000038.d
Date : 03-MAR-2010 16:45
Client ID:
Instrument: LC10.i
Sample Info: LV3TC1AD 0060203 A0B250493-5 DUP:0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



North Canton

TestAmerica West Sacramento

A-000039.D

Chromatography Summary

Injection Date: 3/3/2010 17:34 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000039.D **Vial Num:** 42

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3TC1AE 0060203 A0B250493-5 TRI**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.21 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3TC1AE 0060203 A0B250493-5 TRI;0

Misc. Info: ;;;10.21;80;2;SOLIDBQSM.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.64**	**0.009**	**3196**	**519.3000<**		**18.64**	**0.003**	**6125**	**491.6000**		**0.0000**	**0.00**	
HMX											11.8511	239.82	
RDX											11.7532	239.82	
Picric ACID											97.9432	959.29	
1,3,5-Trinitrobenzene											9.7943	239.82	
1,3-Dinitrobenzene											4.1136	239.82	
TETRYL											9.7943	239.82	
Nitrobenzene											17.2380	239.82	
2,4,6-Trinitrotoluene											19.0010	239.82	
4-AM-2,6-DNT											9.7943	239.82	
2-AM-4,6-DNT											12.2429	287.79	
2,6-Dinitrotoluene	20.71	-0.197 RT 380	76	10.5200< ND							7.1499	239.82	45
2,4-Dinitrotoluene											5.1910	239.82	
2-Nitrotoluene											12.7326	239.82	
4-Nitrotoluene											17.8257	479.64	
3-Nitrotoluene											15.1812	239.82	
Nitroglycerin											14.6915	479.64	
PETN											24.4858	479.64	
3,5-Dinitroaniline											8.6190	1247.07	

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**489.7160**	**519.3000**	**106**	**489.7160**	**491.6000**	**100**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000039.d
Lab Smp Id: LV3TC1AE 0060203 A0
Inj Date : 03-MAR-2010 17:34
Operator : NS Inst ID: LC10.i
Smp Info : LV3TC1AE 0060203 A0B250493-5 TRI;0
Misc Info : ;;;10.21;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 10:41 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 42
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.210	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.458	142	32	0.226	0.78		
8.889	211	36	0.171	0.88		
9.302	2796	191	0.068	4.69		
10.119	2717	177	0.065	4.34		
11.872	816	59	0.072	1.44		
16.832	418	37	0.089	0.90		
17.335	623	47	0.076	1.15		
18.642	64872	3196	0.049	78.62	$ 1	3,4-Dinitrotoluene
20.705	2538	76	0.030	1.86	15	2,6-Dinitrotoluene
25.859	594	37	0.062	0.90		
28.459	3138	148	0.047	3.63		
33.689	229	33	0.144	0.81		
	79092	4069		100.000		

Total unknown % height = 19.52

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000039.d

Date : 03-MAR-2010 17:34

Client ID:

Instrument: LC10.i

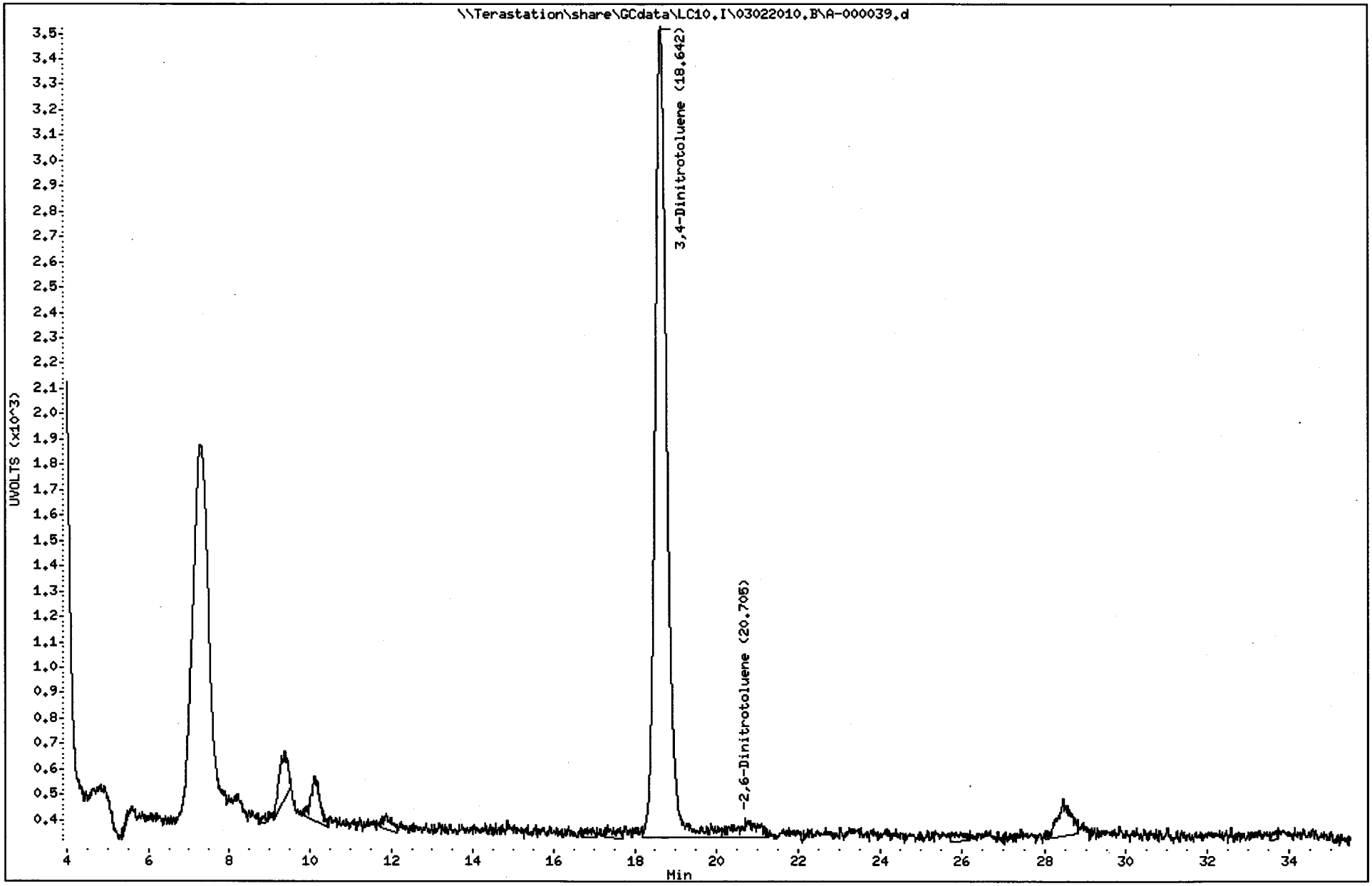
Sample Info: LV3TC1AE 0060203 A0B250493-5 TRI;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000039.d\A-000039
Lab Smp Id: LV3TC1AE 0060203 A0
Inj Date : 03-MAR-2010 17:34
Operator : NS Inst ID: LC10.i
Smp Info : LV3TC1AE 0060203 A0B250493-5 TRI;0
Misc Info : ;;;10.21;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 10:44 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 42
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.210	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.112	478	57	0.119	0.78	
18.642	120882	6125	0.051	84.07	$ 1 3,4-Dinitrotoluene
20.305	8282	291	0.035	3.99	
21.669	1400	63	0.045	0.86	
23.239	571	45	0.079	0.61	
26.495	894	41	0.046	0.56	
27.169	721	52	0.072	0.71	
27.905	333	52	0.156	0.71	
28.452	9208	261	0.028	3.58	
29.859	344	66	0.192	0.90	
30.355	418	36	0.086	0.49	
30.712	1596	96	0.060	1.31	
31.252	213	53	0.249	0.72	
32.715	328	52	0.159	0.71	
	145668	7290		100.000	

Total unknown % height = 15.93

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000039.d\A-000039.d

Date : 03-MAR-2010 17:34

Client ID:

Instrument: LC10.i

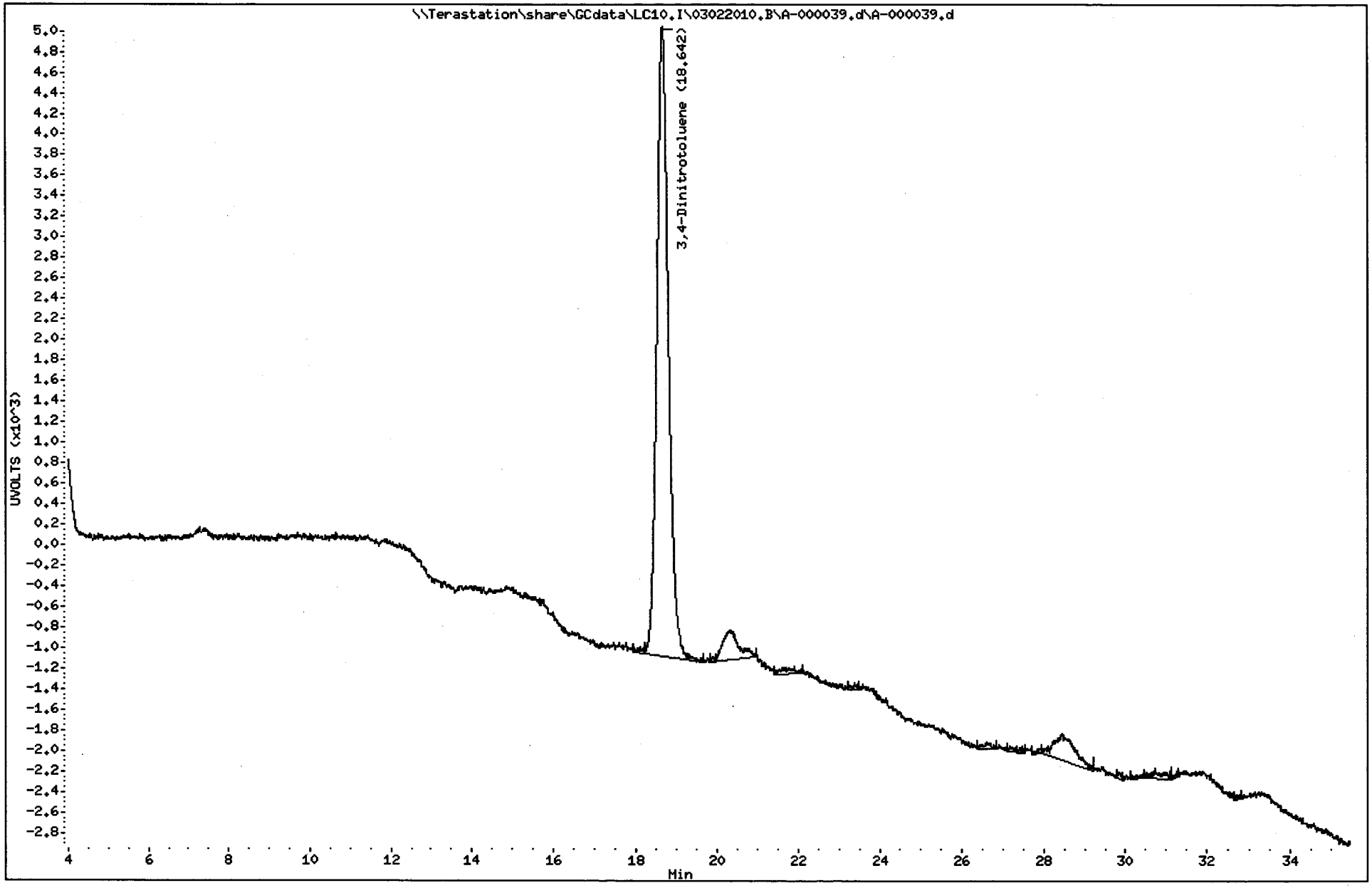
Sample Info: LV3TC1AE 0060203 A0B250493-5 TRI;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000048.D

Chromatography Summary

Injection Date: 3/4/2010 0:51 **Operator:** NS

DataFile: LC10.I\03022010.B\A-000048.D **Vial Num:** 4

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10.I\03022010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.66	4759	98.6900<	100	-1%	Acceptable		18.66	9753	99.9100	100	0%	Acceptable		(±15)	
HMX	5.45	13116	98.4500<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
RDX	8.02	9254	102.6000<	100	3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Picric ACID	9.27	18543	211.5000	200	6%	Acceptable		9.27	27359	212.6000<	200	6%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.58	16194	100.7000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
1,3-Dinitrobenzene	13.60	15749	100.3000<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
TETRYL	15.08	8162	92.9600<	100	-7%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitrobenzene	15.45	7052	95.2600<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4,6-Trinitrotoluene	17.32	9097	95.2000<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-AM-2,6-DNT	18.08	6936	97.3000<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-AM-4,6-DNT	19.20	7882	97.1100<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,6-Dinitrotoluene	20.94	5446	96.1600<	100	-4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4-Dinitrotoluene	21.71	8871	96.5500<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-Nitrotoluene	25.29	3809	93.5200<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-Nitrotoluene	27.27	4610	94.6400<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
3-Nitrotoluene	29.38	4500	93.7300<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitroglycerin				**100**	**-100%**	**Fails**		16.36	6348	101.2000<	100	1%	Acceptable		(±15)	45
PETN				**100**	**-100%**	**Fails**		32.91	3178	100.5000<	100	1%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.49	10275	99.7800<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
EGDN				**100**	**-100%**	**Fails**					**100**	**-100%**	**Fails**		(±15)	

m 3/4/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 3:09 PM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000048.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 04-MAR-2010 00:51
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.m
Meth Date : 04-Mar-2010 01:35 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

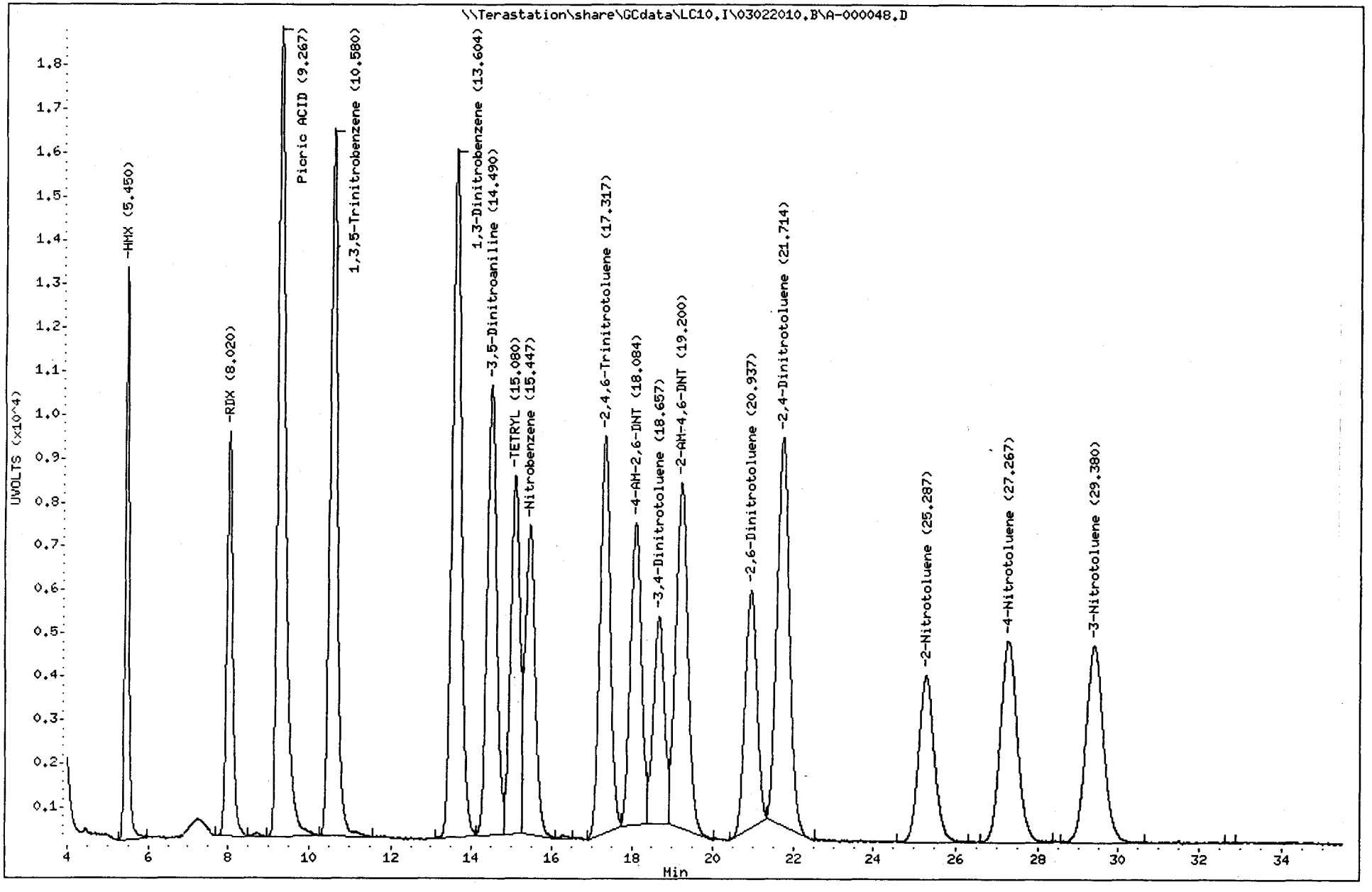
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.450	83898	13116	0.156	8.49		2	HMX
8.020	95945	9254	0.096	5.99		3	RDX
8.724	978	93	0.095	0.06			
9.267	250364	18543	0.074	12.08		5	Picric ACID
10.580	205563	16194	0.079	10.48		6	1,3,5-Trinitrobenze
13.604	244900	15749	0.064	10.19		7	1,3-Dinitrobenzene
14.490	167928	10275	0.061	6.65		8	3,5-Dinitroaniline
15.080	129316	8162	0.063	5.28		9	TETRYL
15.447	124328	7052	0.057	4.56		10	Nitrobenzene
16.290	1063	75	0.071	0.04			
17.317	162432	9097	0.056	5.88		12	2,4,6-Trinitrotolue
18.084	130268	6936	0.053	4.49		13	4-AM-2,6-DNT
18.657	87466	4759	0.054	3.08	$	1	3,4-Dinitrotoluene
19.200	163303	7882	0.048	5.10		14	2-AM-4,6-DNT
20.937	109860	5446	0.050	3.52		15	2,6-Dinitrotoluene
21.714	193123	8871	0.046	5.74		16	2,4-Dinitrotoluene
25.287	100056	3809	0.038	2.46		17	2-Nitrotoluene
27.267	130636	4610	0.035	2.98		18	4-Nitrotoluene
29.380	136424	4500	0.033	2.91		19	3-Nitrotoluene
32.824	432	44	0.102	0.02			
	2518283	154467		100.000			

Total unknown % height = 0.1200

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000048.D
Date : 04-MAR-2010 00:51
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



North Canton

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03022010.B\A-000048.D\A-000048
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 04-MAR-2010 00:51
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03022010.B\8330AB.M\83302.m
Meth Date : 04-Mar-2010 01:35 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

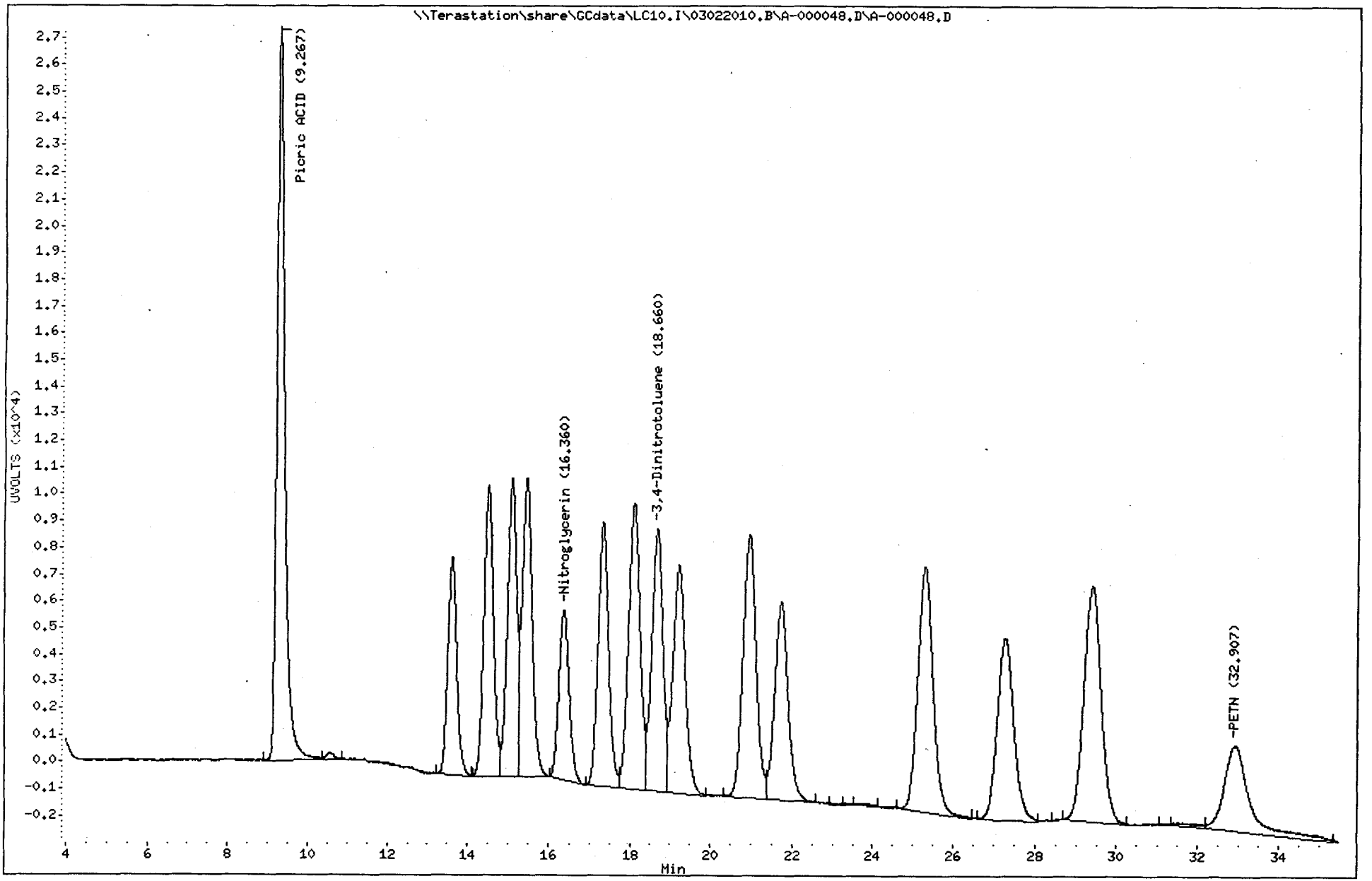
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.267	370762	27359	0.074	17.28		5 Picric ACID
10.567	3597	265	0.074	0.16		
13.604	124996	8122	0.065	5.09		
14.490	178210	10837	0.061	6.79		
15.077	177075	11146	0.063	6.99		
15.450	198709	11130	0.056	6.98		
16.360	107560	6348	0.059	3.98		11 Nitroglycerin
17.317	180380	9830	0.054	6.16		
18.084	209140	10659	0.051	6.68		
18.660	188930	9753	0.052	6.11	$	1 3,4-Dinitrotoluene
19.200	181788	8512	0.047	5.33		
20.937	214151	9819	0.046	6.15		
21.704	169656	7371	0.043	4.62		
22.950	691	84	0.122	0.05		
23.304	680	78	0.115	0.04		
23.554	1796	75	0.042	0.04		
25.284	240836	9157	0.038	5.74		
27.280	189317	6729	0.036	4.22		
28.627	282	41	0.145	0.02		
29.387	260990	8772	0.034	5.50		
31.034	526	52	0.099	0.03		
31.517	4387	93	0.021	0.05		
32.907	139839	3178	0.023	1.99		20 PETN
	3144298	159410		100.000		

Total unknown % height = 70.64

Data File: \\Terastation\share\GCdata\LC10.I\03022010.B\A-000048.D\A-000048.D
Date : 04-MAR-2010 00:51
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



North Canton

Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

TestAmerica
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West Sacramento

GC/HPLC ICAL Checklist

Instrument ID: LC10-C18 ICAL ID: 03012010 Method: 8330

Analytes Included in curve (with dates): All 8330, PETN, NG, PA, 3,5-DNA

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	✓	✓	
2. ICAL Runlog included.	✓	✓	
3. ICV Included and moved to after summary.	✓	✓	
4. PEM meets requirements and is included for 8081.			✓
5. Alkane Marker included for 8015 TPH.			✓
6. ICAL Raw Data included for all analytes.	✓	✓	
B. ICAL Summary			
1. All analytes meet %RSD or linear regression requirements.	✓	✓	
2. ICAL meets requirements stated in SOP.	✓	✓	
2. Any levels dropped are reviewed and appropriate.			✓
3. All analytes in ICAL are in the ICAL summary.	✓	✓	
4. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			✓
2. All peaks correctly identified.	✓	✓	
3. No analytes have saturated peaks.	✓	✓	
4. RT windows set correctly (8015 TPH).			✓
5. ICV meets requirements and is run after the ICAL.	✓	✓	
6. Standards used in ICAL are current.	✓	✓	
7. ICAL is copied to source method.	✓	✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	✓		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	✓		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

Analyst: [signature] Date: 3/2/10

Reviewer: MKway Date: 3/2/2010

Comments:

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000010.d
Level 2: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000011.d
Level 3: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000012.d
Level 4: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000013.d
Level 5: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000014.d
Level 6: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000015.d
Level 7: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000016.d
Level 8: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000017.d

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
2 HMX	150	144	137	136	130	130		
	125	114					133	8.430
3 RDX	98.40000	96.90000	95.65000	95.78000	91.10000	91.75000		
	83.22800	69.00900					90.22713	10.874
4 EGDN	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++ <-
5 Picric ACID	+++++	+++++	107	91.68000	91.42000	85.79200		
	80.00700	70.21200					87.65517	14.101
6 1,3,5-Trinitrobenzene	170	172	165	167	160	161		
	153	138					161	6.707
7 1,3-Dinitrobenzene	171	170	162	163	156	157		
	147	129					157	8.628
8 3,5-Dinitroaniline	118	110	106	106	101	102		
	96.54200	83.80300					103	9.691
9 TETRYL	94.40000	91.20000	87.95000	88.16000	81.37000	90.93500		
	85.72000	82.69800					87.80413	5.035

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
10 Nitrobenzene	73.00000	79.70000	78.15000	76.92000	73.47000	74.08000		
	71.93800	65.00400					74.03275	6.141
11 Nitroglycerin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
12 2,4,6-Trinitrotoluene	107	99	97.05000	96.38000	89.94000	94.25500		
	92.83000	87.75400					95.55113	6.238
13 4-AM-2,6-DNT	80.80000	76.30000	71.75000	71.44000	68.60000	68.61000		
	69.61400	63.16000					71.28425	7.482
14 2-AM-4,6-DNT	93.20000	87.20000	82.40000	81.42000	78.04000	78.31500		
	78.19200	70.54100					81.16350	8.362
15 2,6-Dinitrotoluene	65.20000	58.90000	57.15000	56.30000	54.15000	54.21000		
	55.58400	51.55900					56.63163	7.244
16 2,4-Dinitrotoluene	103	96.20000	92.70000	92.60000	88.51000	88.75500		
	90.03200	83.62600					91.87788	6.204
17 2-Nitrotoluene	42.40000	43.10000	42.80000	41.98000	39.96000	39.93000		
	39.15400	36.49600					40.72750	5.560
18 4-Nitrotoluene	48.20000	53.20000	51.25000	49.94000	47.60000	48.01000		
	47.15800	44.32700					48.71063	5.581
19 3-Nitrotoluene	50.20000	50.90000	49.30000	49.40000	46.86000	46.97000		
	46.56200	43.90000					48.01150	4.862
20 PETN	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
$ 1 3,4-Dinitrotoluene	+++++	52.30000	46.40000	46.32000	47.22000	46.38000		
	50.47667	48.46000					48.22238	4.871

Report Date: 02-Mar-2010 09:16

Calibration History

Method : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Start Cal Date: 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
01-MAR-2010 17:59	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d
Cal Level: 2 , Cal Amount: 10.00000		
01-MAR-2010 18:47	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d
Cal Level: 3 , Cal Amount: 20.00000		
01-MAR-2010 19:35	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d
Cal Level: 4 , Cal Amount: 50.00000		
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d
Cal Level: 5 , Cal Amount: 100.00000		
01-MAR-2010 21:12	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d
Cal Level: 6 , Cal Amount: 200.00000		
01-MAR-2010 22:01	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d
Cal Level: 7 , Cal Amount: 500.00000		
01-MAR-2010 22:49	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d
Cal Level: 8 , Cal Amount: 1000.00000		

01-MAR-2010 23:38	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d		

Continuing Calibration
Ccal Level Mode: BY SAMPLE

02-MAR-2010 02:03	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d		
02-MAR-2010 01:14	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d		
01-MAR-2010 21:12	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d		

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000010.d\A-00
Level 2: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000011.d\A-00
Level 3: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000012.d\A-00
Level 4: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000013.d\A-00
Level 5: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000014.d\A-00
Level 6: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000015.d\A-00
Level 7: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000016.d\A-00
Level 8: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000017.d\A-00

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
2 HMX	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
3 RDX	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
4 EGDN	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
5 Picric ACID	+++++	+++++	154	135	134	127			
	118	104					129	13.252	
6 1,3,5-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
7 1,3-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
8 3,5-Dinitroaniline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
9 TETRYL	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
10 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
11 Nitroglycerin	+++++	+++++	63.55000	63.44000	62.94000	63.83500		
	63.78800	58.64100					62.69900	3.212
12 2,4,6-Trinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
13 4-AM-2,6-DNT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
14 2-AM-4,6-DNT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
15 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
16 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
17 2-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
18 4-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
19 3-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
20 PETN	+++++	+++++	38.05000	30.62000	30.28000	30.55500	✓	✓
	30.73000	29.44300					31.61300	10.083

3/2/2010 MM

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
$ 1 3,4-Dinitrotoluene	+++++	114	97.05000	94.88000	96.43000	95.07500		
	95.19000	90.92400					97.62129	7.577

Report Date: 02-Mar-2010 09:17

Calibration History

Method : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.M
Start Cal Date: 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
01-MAR-2010 17:59	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d\A-000010.d
Cal Level: 2 , Cal Amount: 10.00000		
01-MAR-2010 18:47	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011.d
Cal Level: 3 , Cal Amount: 20.00000		
01-MAR-2010 19:35	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012.d
Cal Level: 4 , Cal Amount: 50.00000		
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d
Cal Level: 5 , Cal Amount: 100.00000		
01-MAR-2010 21:12	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014.d
Cal Level: 6 , Cal Amount: 200.00000		
01-MAR-2010 22:01	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015.d
Cal Level: 7 , Cal Amount: 500.00000		
01-MAR-2010 22:49	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d\A-000016.d
Cal Level: 8 , Cal Amount: 1000.00000		

01-MAR-2010 23:38	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017.d		

Continuing Calibration
Ccal Level Mode: BY SAMPLE

02-MAR-2010 02:03	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020.d		
02-MAR-2010 01:14	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019.d		
01-MAR-2010 20:24	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d		

Calibration Standard Level Reference Sheet

8330, 8330A, 8330B

	Concentration (ppb)							
Analyte	Level 1	2	3	4	5	6	7	8
3,4-Dinitrotoluene (surr)		10	20	50	100	200	300	500
HMX	5	10	20	50	100	200	500	1000
MNX	5	10	20	50	100	200	500	1000
DNX	5	10	20	50	100	200	500	1000
TNX	5	10	20	50	100	200	500	1000
RDX	5	10	20	50	100	200	500	1000
1,3,5-Trinitrobenzene	5	10	20	50	100	200	500	1000
1,3-Dinitrotoluene	5	10	20	50	100	200	500	1000
3.5-Dinitroaniline	5	10	20	50	100	200	500	1000
TETRYL	5	10	20	50	100	200	500	1000
Nitrobenzene	5	10	20	50	100	200	500	1000
2,4,6-Trinitrotoluene	5	10	20	50	100	200	500	1000
4-Amino-2,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2-Amino-4,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2,6-Dinitrotoluene	5	10	20	50	100	200	500	1000
2,4-Dinitrotoluene	5	10	20	50	100	200	500	1000
2-Nitrotoluene	5	10	20	50	100	200	500	1000
4-Nitrotoluene	5	10	20	50	100	200	500	1000
3-Nitrotoluene	5	10	20	50	100	200	500	1000
Picric Acid			50	100	200	500	1000	2000
Nitroglycerin			20	50	100	200	500	1000
PETN			20	50	100	200	500	1000
EGDN			20	50	100	200	500	1000

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GC/LC INSTRUMENT LOG

Inst ID: LC10 Batch ID: 03012010
Method : Method 8330 Test : SOP SAC-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
01-MAR-2010	10:34	NS	8330 PRIMER	A-000001.	0 g	0 mL	1	
01-MAR-2010	11:23	NS	8330 PRIMER	A-000002.	0 g	0 mL	1	
01-MAR-2010	12:11	NS	8330 PRIMER	A-000003.	0 g	0 mL	1	
01-MAR-2010	12:59	NS	8330 PRIMER	A-000004.	0 g	0 mL	1	
01-MAR-2010	13:48	NS	8330 PRIMER	A-000005.	0 g	0 mL	1	
01-MAR-2010	14:36	NS	8330 PRIMER	A-000006.	0 g	0 mL	1	
01-MAR-2010	15:25	NS	8330 PRIMER	A-000007.	0 g	0 mL	1	
01-MAR-2010	16:13	NS	8330 PRIMER	A-000008.	0 g	0 mL	1	
01-MAR-2010	17:10	NS	BLANK	A-000009.	0 g	0 mL	1	
01-MAR-2010	17:59	NS	CS_01 10GCSV0046 8330 ICAL L1	A-000010.	0 g	0 mL	1	
01-MAR-2010	18:47	NS	CS_02 10GCSV0047 8330 ICAL L2	A-000011.	0 g	0 mL	1	
01-MAR-2010	19:35	NS	CS_03 10GCSV0048 8330 ICAL L3	A-000012.	0 g	0 mL	1	
01-MAR-2010	20:24	NS	CS_04 10GCSV0049 8330 ICAL L4	A-000013.	0 g	0 mL	1	
01-MAR-2010	21:12	NS	CS_05 10GCSV0072 8330 ICAL L5	A-000014.	0 g	0 mL	1	
01-MAR-2010	22:01	NS	CS_06 09GCSV0482 8330 ICAL L6	A-000015.	0 g	0 mL	1	
01-MAR-2010	22:49	NS	CS_07 10GCSV0050 8330 ICAL L7	A-000016.	0 g	0 mL	1	
01-MAR-2010	23:38	NS	CS_8 10GCSV0051 8330 ICAL L8 1	A-000017.	0 g	0 mL	1	
02-MAR-2010	00:26	NS	BLANK	A-000018.	0 g	0 mL	1	
02-MAR-2010	01:14	NS	ICV 10GCSV0058 8330 200ng/mL	A-000019.	0 g	0 mL	1	
02-MAR-2010	02:03	NS	MRL 10GCSV0074 8330 5-50ng/mL	A-000020.	0 g	0 mL	1	

TestAmerica West Sacramento

A-000019.D

Chromatography Summary

Injection Date: 3/2/2010 1:14 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000019.D **Vial Num:** 69

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **ICV 10GCSV0058 8330 200ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: ICV 10GCSV0058 8330 200ng/mL;2

Misc. Info: ;6; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene				200	-100%	Fails	Not SPIKED				200	-100%	Fails		(±15)	
HMX	5.46	27851	209.1000<	200	5%	Acceptable					200	-100%	Fails		(±15)	45
RDX	8.04	18379	203.7000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
Picric ACID	9.24	41098	468.8000	500	-6%	Acceptable		9.24	60778	472.3000<	500	-6%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.62	32359	201.1000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.66	31650	201.6000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
TETRYL	15.16	18076	205.9000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
Nitrobenzene	15.52	15283	206.4000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.41	19055	199.4000<	200	0%	Acceptable					200	-100%	Fails		(±15)	45
4-AM-2,6-DNT	18.18	14153	198.5000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.31	16434	202.5000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	21.05	11129	196.5000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.82	18425	200.5000<	200	0%	Acceptable					200	-100%	Fails		(±15)	45
2-Nitrotoluene	25.40	8259	202.8000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
4-Nitrotoluene	27.41	9936	204.0000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
3-Nitrotoluene	29.54	9806	204.2000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
Nitroglycerin				200	-100%	Fails		16.44	13921	222.0000<	200	11%	Acceptable		(±15)	45
PETN				200	-100%	Fails		33.13	6995	221.3000<	200	11%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.56	20727	201.3000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
EGDN				200	-100%	Fails	MA				200	-100%	Fails		(±15)	

MR 3/2/10

ICV passes ± 15%

MR 3/2/10

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d
Lab Smp Id: ICV 10GCSV0058 8330
Inj Date : 02-MAR-2010 01:14
Operator : NS Inst ID: LC10.i
Smp Info : ICV 10GCSV0058 8330 200ng/mL;2
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:14 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
4.897	101	40	0.394	0.01		
5.057	1419	213	0.150	0.06		
5.457	180264	27851	0.155	8.89	2	HMX
8.044	192820	18379	0.095	5.86	3	RDX
8.740	1385	166	0.120	0.05		
9.237	570439	41098	0.072	13.21	5	Picric ACID
10.617	413294	32359	0.078	10.33	6	1,3,5-Trinitrobenze
13.664	499482	31650	0.063	10.10	7	1,3-Dinitrobenzene
14.560	345098	20727	0.060	6.61	8	3,5-Dinitroaniline
15.164	289510	18076	0.062	5.77	9	TETRYL
15.520	268810	15283	0.057	4.87	10	Nitrobenzene
16.450	2076	138	0.066	0.04		
17.407	342027	19055	0.056	6.08	12	2,4,6-Trinitrotolue
18.180	275681	14153	0.051	4.51	13	4-AM-2,6-DNT
19.307	347563	16434	0.047	5.24	14	2-AM-4,6-DNT
21.047	227359	11129	0.049	3.55	15	2,6-Dinitrotoluene
21.824	403652	18425	0.046	5.88	16	2,4-Dinitrotoluene
25.404	217983	8259	0.038	2.63	17	2-Nitrotoluene
27.407	279772	9936	0.036	3.17	18	4-Nitrotoluene
29.540	298361	9806	0.033	3.13	19	3-Nitrotoluene
33.177	525	49	0.093	0.01		
	5157621	313226		100.000		

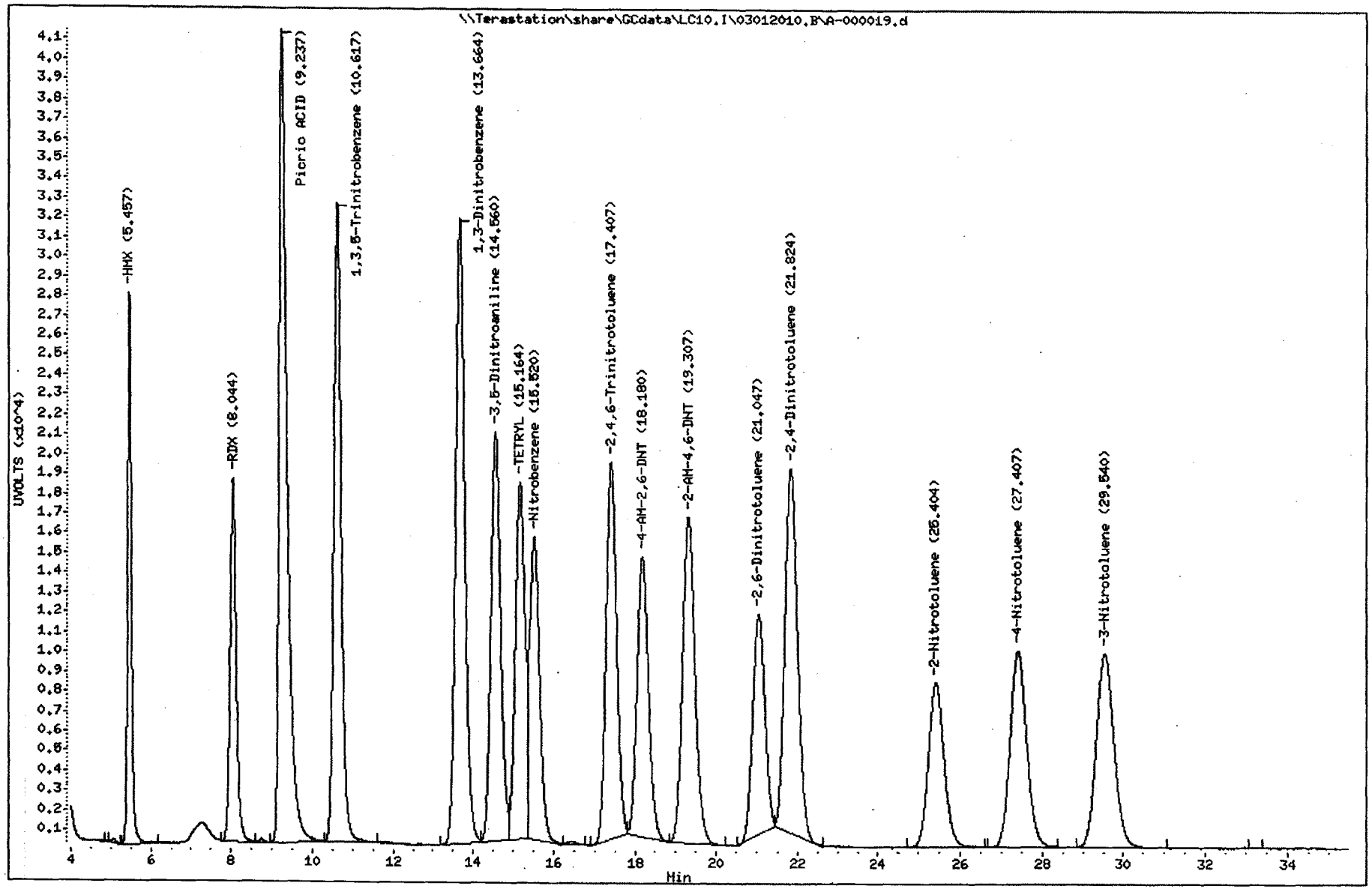
Total unknown % height = 0.1700

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d
Date : 02-MAR-2010 01:14
Client ID:
Sample Info: ICV 10GCSV0058 8330 200ng/mL;2

Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i

Operator: NS
Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019
Lab Smp Id: ICV 10GCSV0058 8330
Inj Date : 02-MAR-2010 01:14
Operator : NS Inst ID: LC10.i
Smp Info : ICV 10GCSV0058 8330 200ng/mL;2
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:14 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.237	849293	60778	0.072	19.26	5 Picric ACID
10.614	7363	517	0.070	0.16	
13.664	258452	16422	0.064	5.18	
14.560	363697	21789	0.060	6.87	
15.167	388762	24491	0.063	7.72	
15.520	427771	23907	0.056	7.54	
16.444	238096	13921	0.058	4.39	11 Nitroglycerin
17.407	376128	20557	0.055	6.48	
18.177	424782	21215	0.050	6.69	
19.307	356880	16998	0.048	5.36	
21.047	440087	20006	0.045	6.31	
21.824	364079	15487	0.043	4.88	
25.407	516355	19787	0.038	6.24	
27.410	405262	14502	0.036	4.57	
29.537	592682	19506	0.033	6.15	
33.127	252854	6995	0.028	2.20	20 PETN
	6262544	316878		100.000	

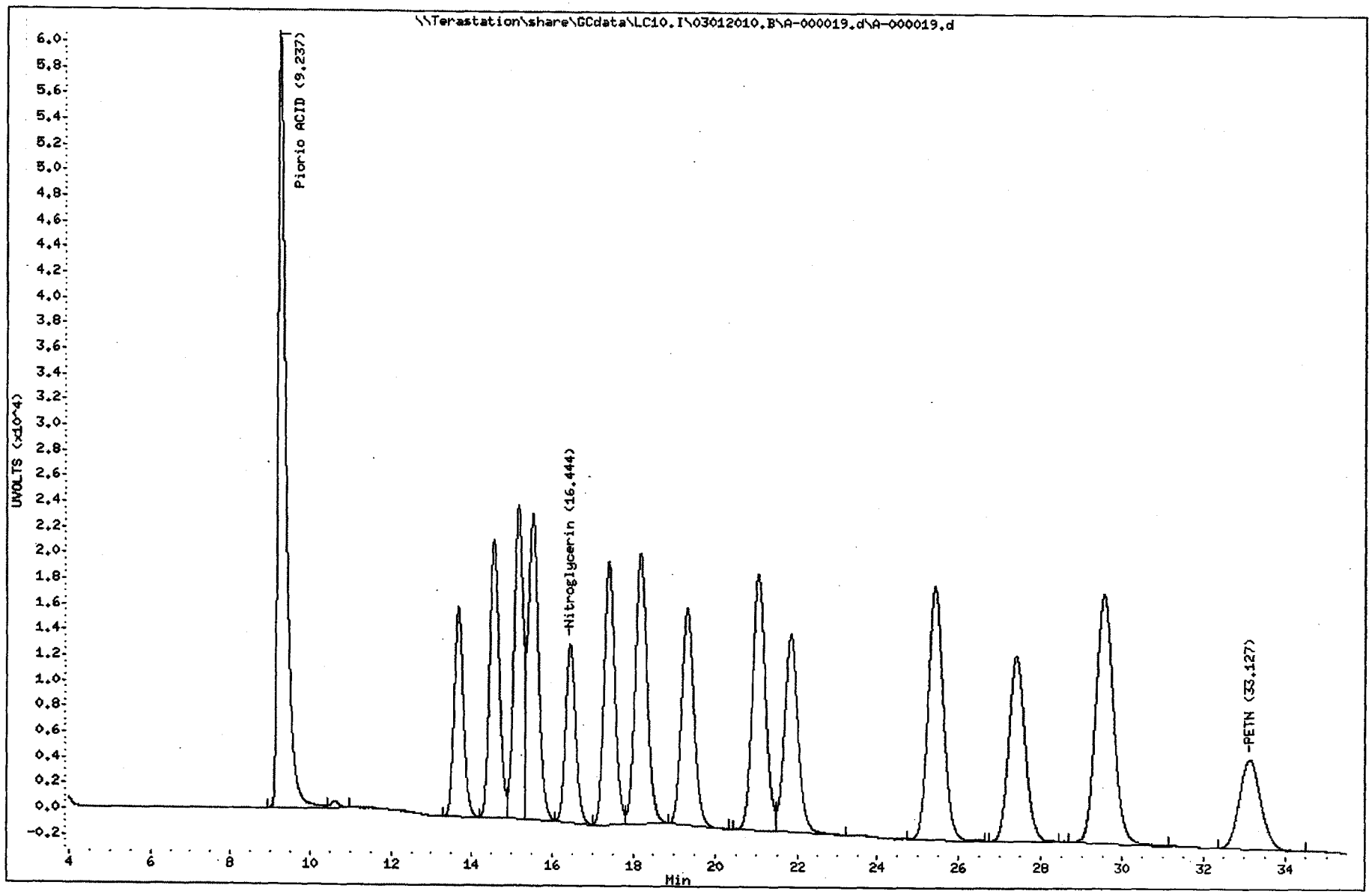
Total unknown % height = 74.15

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019.d
Date : 02-MAR-2010 01:14
Client ID:
Sample Info: ICV 10GCSV0058 8330 200ng/mL:2

Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i

Operator: NS
Column diameter: 4.60



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A-000020.D

Chromatography Summary

Injection Date: 3/2/2010 2:03 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000020.D **Vial Num:** 70

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **MRL 10GCSV0074 8330 5-50ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: MRL 10GCSV0074 8330 5-50ng/mL;2

Misc. Info: ;9; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	18.73	957	19.8400<	20	-1%	Acceptable		18.73	1737	17.7900	20	-11%	Acceptable		(±15)	
HMX	5.45	699	5.2470<	5	5%	Acceptable					5	-100%	Fails		(±15)	45
RDX	8.02	409	4.5330<	5	-9%	Acceptable					5	-100%	Fails		(±15)	45
Picric ACID	9.30	4130	47.1200	50	-6%	Acceptable		9.30	5993	46.5700<	50	-7%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.60	787	4.8920<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.65	754	4.8020<	5	-4%	Acceptable					5	-100%	Fails		(±15)	45
TETRYL	15.15	436	4.9660<	5	-1%	Acceptable					5	-100%	Fails		(±15)	45
Nitrobenzene	15.46	384	5.1870<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.35	476	4.9820<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
4-AM-2,6-DNT	18.16	356	4.9940<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.25	407	5.0140<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	21.02	271	4.7850<	5	-4%	Acceptable					5	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.80	452	4.9200<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
2-Nitrotoluene	25.36	219	5.3770<	5	8%	Acceptable					5	-100%	Fails		(±15)	45
4-Nitrotoluene	27.34	250	5.1320<	5	3%	Acceptable					5	-100%	Fails		(±15)	45
3-Nitrotoluene	29.44	249	5.1860<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
Nitroglycerin				20	-100%	Fails		16.41	1265	20.1800< ✓	20	1%	Acceptable		(±15)	45
PETN				20	-100%	Fails		33.09	682	21.5700<	20	8%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.52	504	4.8940<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
EGDN				20	-100%	Fails					20	-100%	Fails		(±15)	

3/2/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:15 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d
Lab Smp Id: MRL 10GCSV0074 8330
Inj Date : 02-MAR-2010 02:03
Operator : NS Inst ID: LC10.i
Smp Info : MRL 10GCSV0074 8330 5-50ng/mL;2
Misc Info : ;9; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:15 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 70 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.445	6713	699	0.104	5.88		2	HMX
8.015	4795	409	0.085	3.44		3	RDX
9.295	64014	4130	0.065	34.88		5	Picric ACID
10.599	11499	787	0.068	6.62		6	1,3,5-Trinitrobenze
13.645	13919	754	0.054	6.35		7	1,3-Dinitrobenzene
14.519	9427	504	0.053	4.24		8	3,5-Dinitroaniline
15.152	7127	436	0.061	3.67		9	TETRYL
15.462	6871	384	0.056	3.23		10	Nitrobenzene
17.345	9391	476	0.051	4.00		12	2,4,6-Trinitrotolue
18.155	6614	356	0.054	2.99		13	4-AM-2,6-DNT
18.732	19615	957	0.049	8.06	$	1	3,4-Dinitrotoluene
19.252	8993	407	0.045	3.42		14	2-AM-4,6-DNT
21.019	5412	271	0.050	2.28		15	2,6-Dinitrotoluene
21.802	10692	452	0.042	3.80		16	2,4-Dinitrotoluene
25.355	6266	219	0.035	1.84		17	2-Nitrotoluene
26.492	205	45	0.220	0.37			
26.945	125	38	0.304	0.32			
27.335	6353	250	0.039	2.10		18	4-Nitrotoluene
28.685	360	50	0.139	0.42			
29.442	8160	249	0.031	2.09		19	3-Nitrotoluene
	206549	11873		100.000			

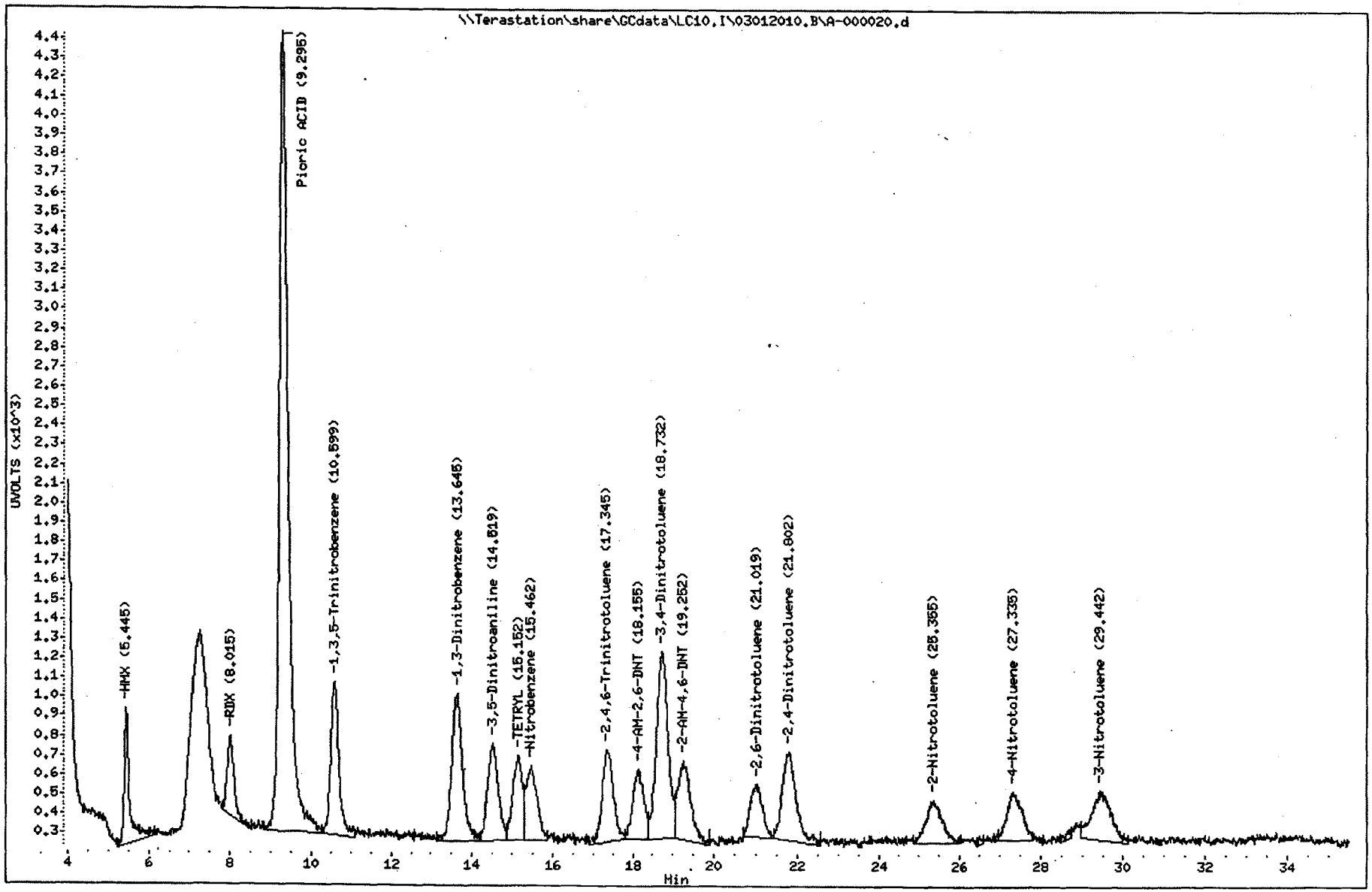
Total unknown % height = 1.110

Data File: \\Terastation\share\GCdata\LC10,I\03012010,B\A-000020,d
Date : 02-MAR-2010 02:03
Client ID:
Sample Info: MRL 10GCSV0074 8330 5-50ng/mL;2

Column phase: SYNERGI HYDRORP C18

Instrument: LC10,i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020
Lab Smp Id: MRL 10GCSV0074 8330
Inj Date : 02-MAR-2010 02:03
Operator : NS Inst ID: LC10.i
Smp Info : MRL 10GCSV0074 8330 5-50ng/mL;2
Misc Info : ;9; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:15 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 70 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.295	88667	5993	0.068	37.36		5 Picric ACID
13.599	7435	396	0.053	2.46		
14.522	11000	559	0.051	3.47		
15.135	11345	643	0.057	3.99		
15.462	14564	648	0.044	4.02		
16.409	22586	1265	0.056	7.86		11 Nitroglycerin
17.369	9305	496	0.053	3.08		
18.152	8484	478	0.056	2.97		
18.725	35776	1737	0.049	10.80	$	1 3,4-Dinitrotoluene
20.985	11046	489	0.044	3.04		
21.815	11755	405	0.034	2.51		
23.589	2146	82	0.038	0.50		
25.362	14657	519	0.035	3.22		
26.512	759	62	0.082	0.38		
27.339	9306	345	0.037	2.14		
28.929	54402	1174	0.022	7.30		
30.669	570	48	0.084	0.29		
31.932	681	60	0.088	0.37		
33.092	24525	682	0.028	4.24		20 PETN
	339007	16081		100.000		

Total unknown % height = 39.74

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020.d

Date : 02-MAR-2010 02:03

Client ID:

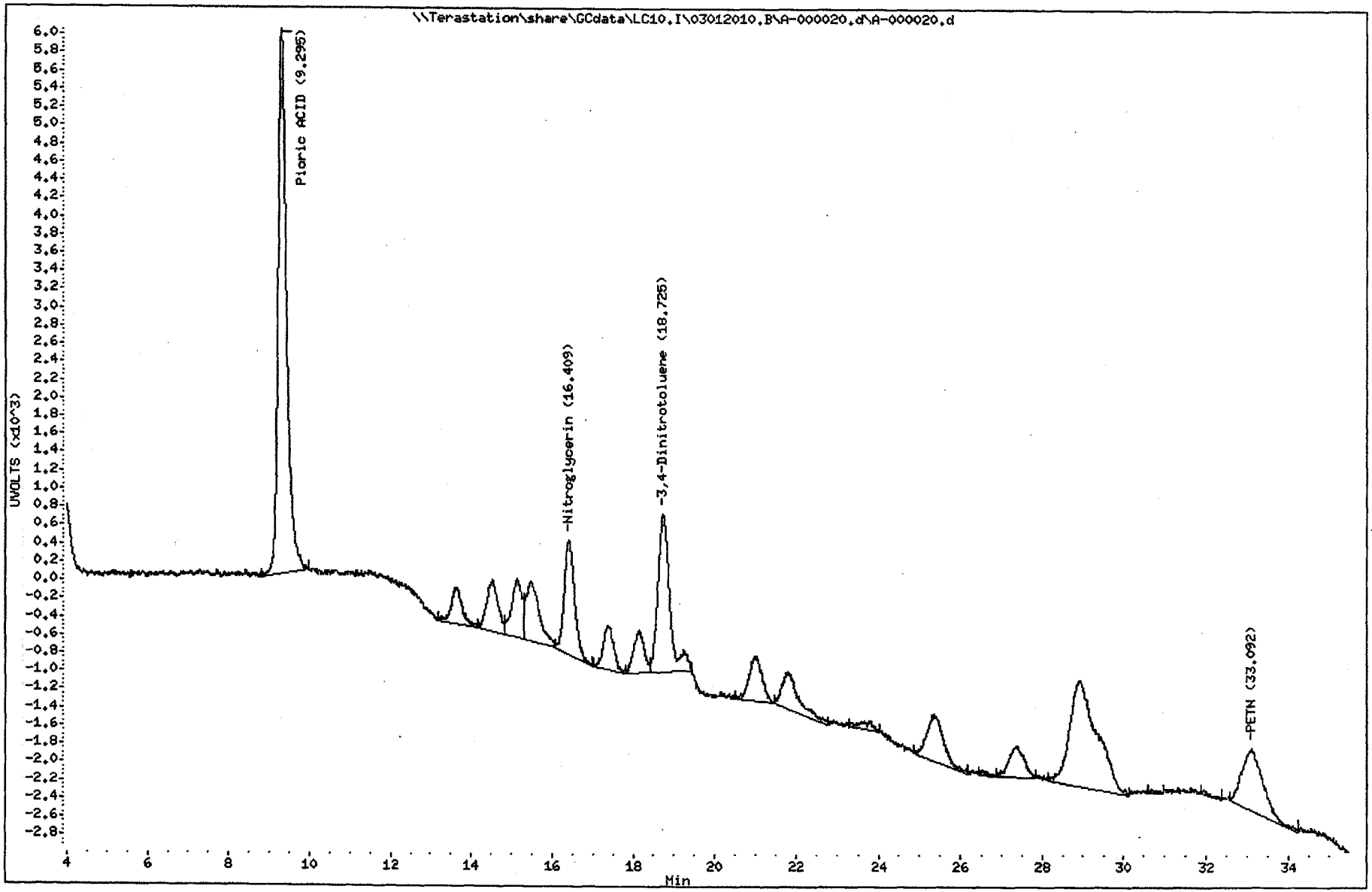
Instrument: LC10.i

Sample Info: MRL 10GCSV0074 8330 5-50ng/mL;2

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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A-000010.D

Chromatography Summary

Injection Date: 3/1/2010 17:59 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000010.D **Vial Num:** 61

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_01 10GCSV0046 8330 ICAL L1 5ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 17:59

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1

Misc. Info: ;1;;;;3;CAL.sub;;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene			5		0			5		0
HMX	5.46	751	5		150.2 ✓			5		0
RDX	8.05	492	5		98.4			5		0
Picric ACID	9.22	27	10		2.7			10		0
1,3,5-Trinitrobenzene	10.62	848	5		169.6			5		0
1,3-Dinitrobenzene	13.69	854	5		170.8			5		0
TETRYL	15.18	472	5		94.4			5		0
Nitrobenzene	15.54	365	5		73			5		0
2,4,6-Trinitrotoluene	17.42	535	5		107			5		0
4-AM-2,6-DNT	18.21	404	5		80.8			5		0
2-AM-4,6-DNT	19.33	466	5		93.2			5		0
2,6-Dinitrotoluene	21.04	326	5		65.2			5		0
2,4-Dinitrotoluene	21.87	513	5		102.6			5		0
2-Nitrotoluene	25.50	212	5		42.4			5		0
4-Nitrotoluene	27.50	241	5		48.2			5		0
3-Nitrotoluene	29.57	251	5		50.2			5		0
Nitroglycerin			5		0			5		0
PETN			5		0	33.08	68	5		13.6
3,5-Dinitroaniline	14.57	588	5		117.6			5		0
EGDN			5		0			5		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:04 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d
Lab Smp Id: CS_01 10GCSV0046 83
Inj Date : 01-MAR-2010 17:59
Operator : NS Inst ID: LC10.i
Smp Info : CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1
Misc Info : ;1; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:03 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 17:59 Cal File: A-000010.d
Als bottle: 61 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.456	5457	751	0.138	9.92	2 HMX
8.053	5137	492	0.096	6.49	3 RDX
8.996	140	39	0.279	0.51	
9.223	180	27	0.150	0.35	5 Picric ACID
9.960	937	58	0.062	0.76	
10.623	10912	848	0.078	11.20	6 1,3,5-Trinitrobenze
12.533	190	36	0.190	0.47	
13.690	14125	854	0.060	11.38	7 1,3-Dinitrobenzene
14.566	10139	588	0.058	7.76	8 3,5-Dinitroaniline
15.180	7903	472	0.060	6.23	9 TETRYL
15.540	6816	365	0.054	4.82	10 Nitrobenzene
17.423	10563	535	0.051	7.06	12 2,4,6-Trinitrotolue
18.206	8964	404	0.045	5.33	13 4-AM-2,6-DNT
19.326	11396	466	0.041	6.15	14 2-AM-4,6-DNT
21.036	7610	326	0.043	4.30	15 2,6-Dinitrotoluene
21.870	13045	513	0.039	6.77	16 2,4-Dinitrotoluene
24.976	228	44	0.193	0.58	
25.503	5737	212	0.037	2.80	17 2-Nitrotoluene
27.503	6734	241	0.036	3.18	18 4-Nitrotoluene
29.573	7409	251	0.034	3.31	19 3-Nitrotoluene
33.523	183	48	0.262	0.63	
	133806	7570		100.000	

Total unknown % height = 2.950

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d

Page 2

Date : 01-MAR-2010 17:59

Client ID:

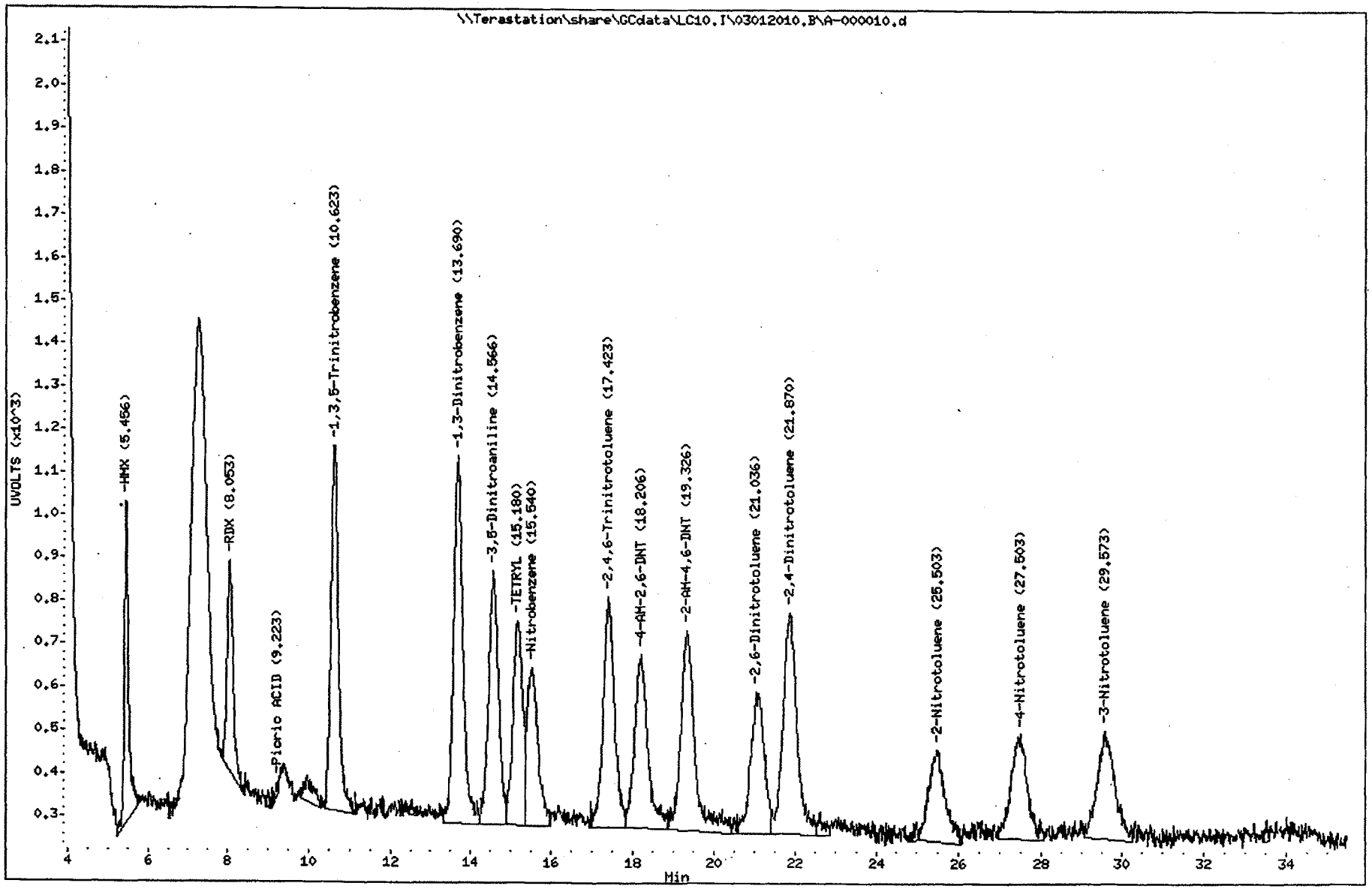
Instrument: LC10.i

Sample Info: CS_01 10GCSV0046 8330 ICAL L1 5ng/mL:1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d\A-000010
Lab Smp Id: CS_01 10GCSV0046 83
Inj Date : 01-MAR-2010 17:59
Operator : NS Inst ID: LC10.i
Smp Info : CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1
Misc Info : ;1; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:03 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 17:59 Cal File: A-000010.d
Als bottle: 61 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
13.670	7343	439	0.060	6.64	
14.560	9544	585	0.061	8.85	
15.183	10124	632	0.062	9.65	
15.533	12585	614	0.049	9.29	
17.423	10853	577	0.053	8.73	
18.203	11799	569	0.048	8.60	
19.333	8847	450	0.051	6.80	
20.086	419	38	0.091	0.57	
20.406	889	65	0.073	0.98	
20.700	742	93	0.125	1.40	
21.033	12222	550	0.045	8.32	
21.863	11441	405	0.035	6.12	
24.806	197	42	0.213	0.63	
25.456	13632	509	0.037	7.70	
26.550	6374	256	0.040	3.87	
27.426	5888	268	0.046	4.05	
28.156	1132	57	0.050	0.86	
29.536	8569	331	0.039	5.00	
31.440	1543	61	0.040	0.92	
33.083	1197	68	0.057	1.02	20 PETN
	135338	6609		100.000	

Total unknown % height = 98.98

TestAmerica West Sacramento

A-000011.D

Chromatography Summary

Injection Date: 3/1/2010 18:47 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000011.D **Vial Num:** 62

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : CS_02 10GCSV0047 8330 ICAL L2 10ng/mL

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1

Misc. Info: ;2; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.79	523	10		52.3	18.80	1138	10		113.8
HMX	5.46	1440	10		144 ✓			10		0
RDX	8.05	969	10		96.9			10		0
Picric ACID	9.33	1858	20		92.9	9.33	2684	20		134.2
1,3,5-Trinitrobenzene	10.63	1716	10		171.6			10		0
1,3-Dinitrobenzene	13.68	1704	10		170.4			10		0
TETRYL	15.18	912	10		91.2			10		0
Nitrobenzene	15.53	797	10		79.7			10		0
2,4,6-Trinitrotoluene	17.42	992	10		99.2			10		0
4-AM-2,6-DNT	18.21	763	10		76.3			10		0
2-AM-4,6-DNT	19.33	872	10		87.2			10		0
2,6-Dinitrotoluene	21.05	589	10		58.9			10		0
2,4-Dinitrotoluene	21.86	962	10		96.2			10		0
2-Nitrotoluene	25.44	431	10		43.1			10		0
4-Nitrotoluene	27.43	532	10		53.2			10		0
3-Nitrotoluene	29.57	509	10		50.9			10		0
Nitroglycerin			10		0	16.46	661	10		66.1
PETN			10		0	33.25	432	10		43.2
3,5-Dinitroaniline	14.56	1099	10		109.9			10		0
EGDN			10		0			10		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d
Lab Smp Id: CS_02 10GCSV0047 83
Inj Date : 01-MAR-2010 18:47
Operator : NS Inst ID: LC10.i
Smp Info : CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1
Misc Info : ;2; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 18:47 Cal File: A-000011.d
Als bottle: 62 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

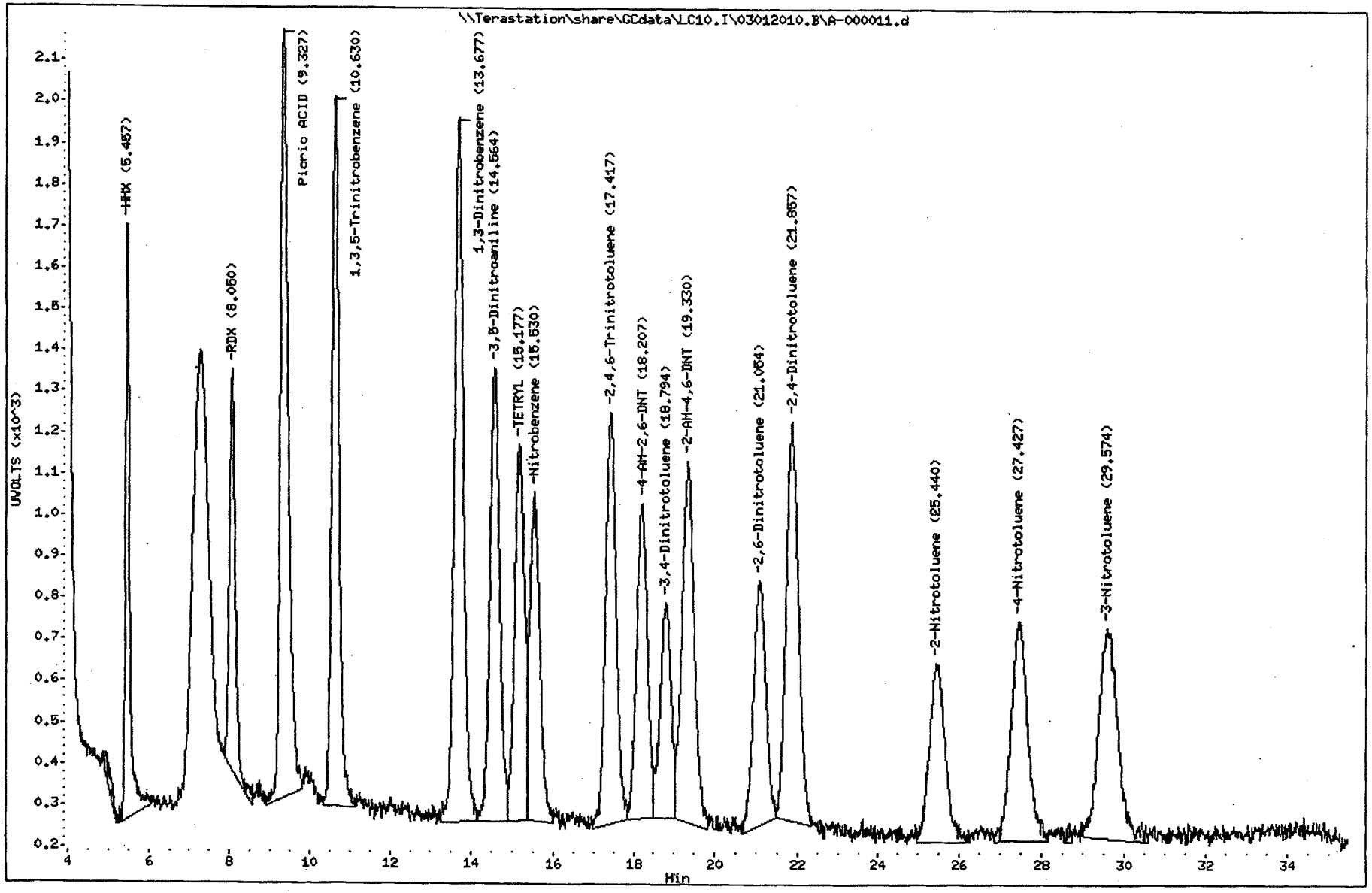
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
4.944	608	59	0.097	0.35			
5.457	10495	1440	0.137	8.56		2	HMX
8.050	10070	969	0.096	5.76		3	RDX
9.327	25790	1858	0.072	11.15		5	Picric ACID
10.630	21523	1716	0.080	10.21		6	1,3,5-Trinitrobenze
13.677	26558	1704	0.064	10.13		7	1,3-Dinitrobenzene
14.564	18348	1099	0.060	6.53		8	3,5-Dinitroaniline
15.177	14506	912	0.063	5.42		9	TETRYL
15.530	13691	797	0.058	4.74		10	Nitrobenzene
17.417	18239	992	0.054	5.90		12	2,4,6-Trinitrotolue
18.207	14143	763	0.054	4.53		13	4-AM-2,6-DNT
18.794	9834	523	0.053	3.11	$	1	3,4-Dinitrotoluene
19.330	18370	872	0.047	5.18		14	2-AM-4,6-DNT
21.054	12247	589	0.048	3.50		15	2,6-Dinitrotoluene
21.857	20496	962	0.047	5.72		16	2,4-Dinitrotoluene
25.440	11741	431	0.037	2.56		17	2-Nitrotoluene
26.990	214	34	0.159	0.20			
27.427	14666	532	0.036	3.16		18	4-Nitrotoluene
28.664	239	46	0.192	0.27			
29.574	15884	509	0.032	3.02		19	3-Nitrotoluene
	277664	16807		100.000			

Total unknown % height = 0.8200

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d
Date : 01-MAR-2010 18:47
Client ID:
Sample Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL:1

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011
Lab Smp Id: CS_02 10GCSV0047 83
Inj Date : 01-MAR-2010 18:47
Operator : NS Inst ID: LC10.i
Smp Info : CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1
Misc Info : ;2; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 18:47 Cal File: A-000011.d
Als bottle: 62 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.327	37712	2684	0.071	15.09		5 Picric ACID
13.674	13032	870	0.067	4.86		
14.567	20808	1200	0.058	6.70		
15.174	21432	1293	0.060	7.22		
15.537	26114	1346	0.052	7.52		
16.464	11110	661	0.059	3.69		11 Nitroglycerin
17.430	22032	1115	0.051	6.23		
18.217	25604	1202	0.047	6.71		
18.797	23362	1138	0.049	6.36	$	1 3,4-Dinitrotoluene
19.330	23643	993	0.042	5.54		
21.064	20706	1004	0.048	5.61		
21.867	18868	825	0.044	4.61		
24.830	407	61	0.150	0.34		
25.474	27528	1053	0.038	5.88		
26.580	5360	199	0.037	1.11		
27.424	19997	729	0.036	4.07		
28.537	2688	109	0.041	0.60		
29.567	24556	859	0.035	4.80		
31.097	265	60	0.227	0.33		
31.334	437	59	0.135	0.32		
33.247	18911	432	0.023	2.41		20 PETN
	364571	17892		100.000		

Total unknown % height = 72.45

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011.d

Date : 01-MAR-2010 18:47

Client ID:

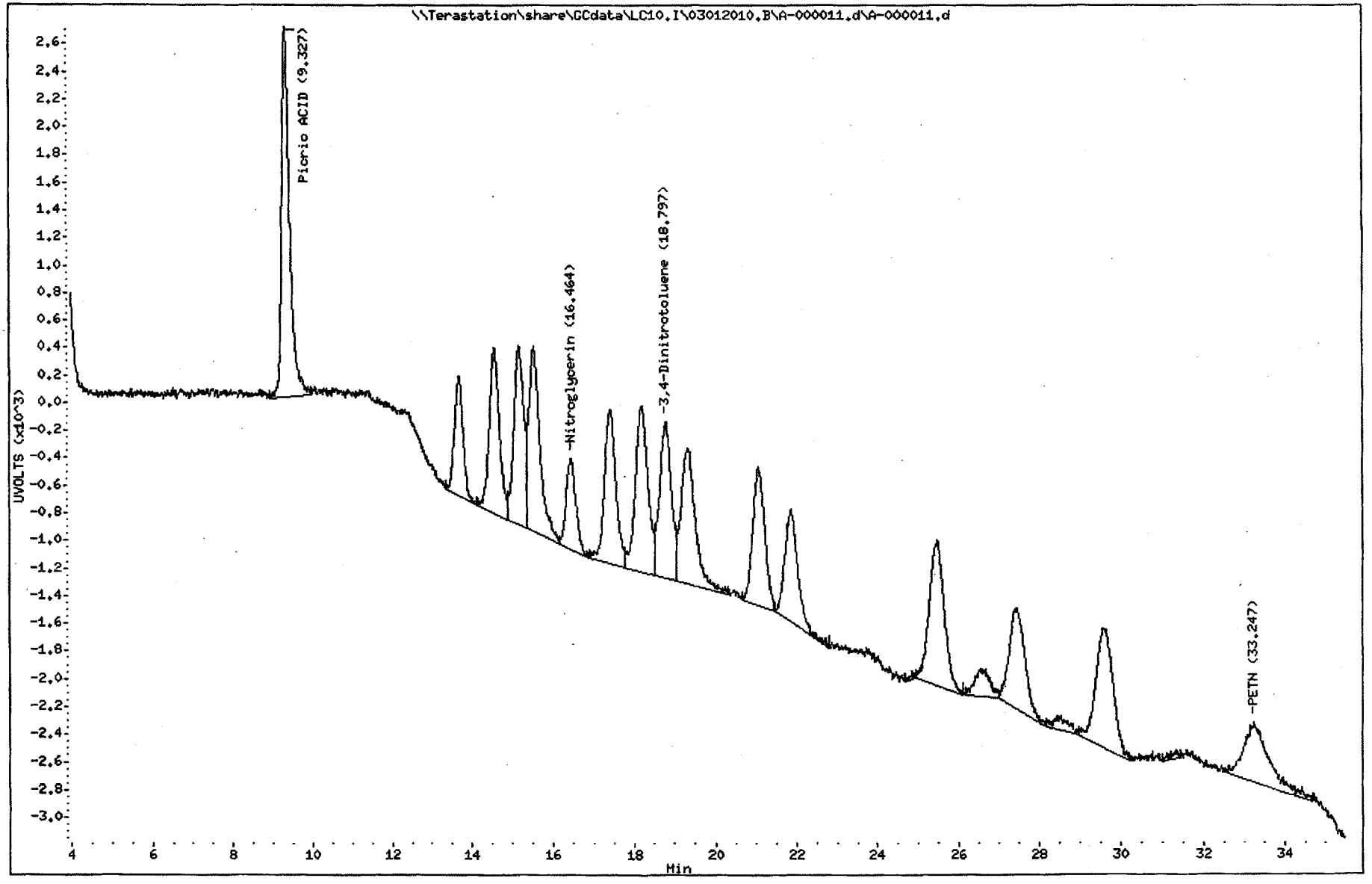
Instrument: LC10.i

Sample Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL:1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012
Lab Smp Id: CS_03 10GCSV0048 83
Inj Date : 01-MAR-2010 19:35
Operator : NS Inst ID: LC10.i
Smp Info : CS_03 10GCSV0048 8330 ICAL L3 20ng/mL;1
Misc Info : ;3; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 19:35 Cal File: A-000012.d
Als bottle: 63 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.330	106240	7713	0.073	21.69		5 Picric ACID
13.697	25413	1657	0.065	4.63		
14.607	38842	2279	0.059	6.38		
15.227	38286	2408	0.063	6.74		
15.574	45833	2483	0.054	6.95		
16.490	21629	1271	0.059	3.55		11 Nitroglycerin
17.467	41361	2155	0.052	6.03		
18.257	47481	2291	0.048	6.41		
18.847	38195	1941	0.051	5.43	$	1 3,4-Dinitrotoluene
19.394	38016	1764	0.046	4.93		
21.124	39485	1910	0.048	5.34		
21.907	32676	1467	0.045	4.10		
23.324	684	57	0.083	0.15		
25.500	54484	2025	0.037	5.67		
26.567	2486	122	0.049	0.34		
27.527	38479	1421	0.037	3.97		
29.640	61616	1922	0.031	5.38		
31.030	938	66	0.070	0.18		
33.244	39826	761	0.019	2.13		20 PETN
	711969	35713		100.000		

Total unknown % height = 67.20

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012.d

Date : 01-MAR-2010 19:35

Client ID:

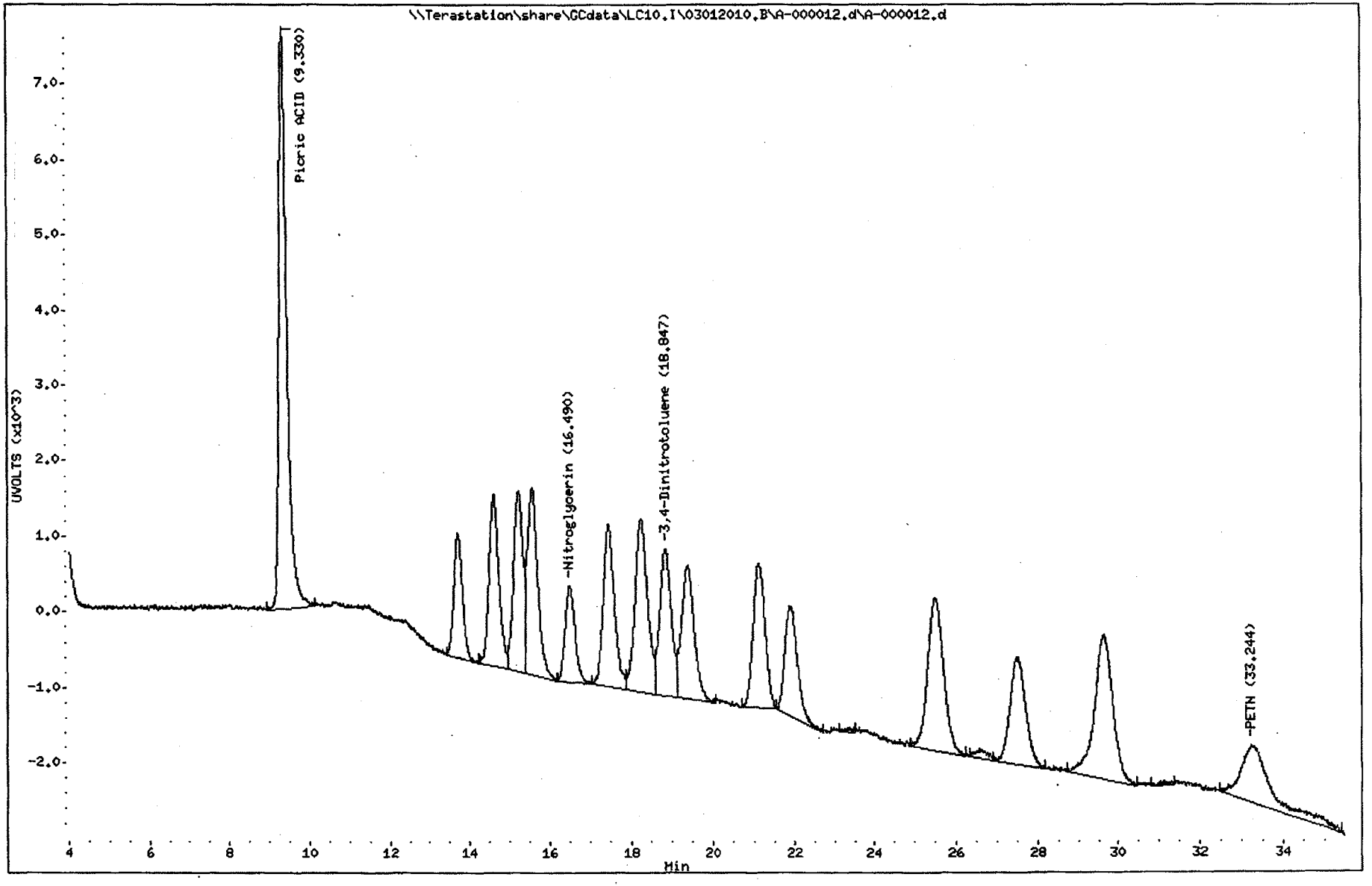
Instrument: LC10.i

Sample Info: CS_03 10GCSV0048 8330 ICAL L3 20ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000013.D

Chromatography Summary

Method 8330 Target Analyte Results

Injection Date: 3/1/2010 20:24 Operator: NS

DataFile: LC10.I\03012010.B\A-000013.D Vial Num: 64

Instrument ID: LC10

Sample : **CS_04 10GCSV0049 8330 ICAL L4 50ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 End Cal Date: 3/1/2010 20:24

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1

Misc. Info: ;4; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.81	2316	50		46.32	18.81	4744	50		94.88
HMX	5.46	6811	50		136.22 ✓			50		0
RDX	8.05	4789	50		95.78			50		0
Picric ACID	9.30	9168	100		91.68	9.30	13461	100		134.61
1,3,5-Trinitrobenzene	10.63	8360	50		167.2			50		0
1,3-Dinitrobenzene	13.68	8162	50		163.24			50		0
TETRYL	15.18	4408	50		88.16			50		0
Nitrobenzene	15.54	3846	50		76.92			50		0
2,4,6-Trinitrotoluene	17.44	4819	50		96.38			50		0
4-AM-2,6-DNT	18.21	3572	50		71.44			50		0
2-AM-4,6-DNT	19.36	4071	50		81.42			50		0
2,6-Dinitrotoluene	21.09	2815	50		56.3			50		0
2,4-Dinitrotoluene	21.89	4630	50		92.6			50		0
2-Nitrotoluene	25.50	2099	50		41.98			50		0
4-Nitrotoluene	27.49	2497	50		49.94			50		0
3-Nitrotoluene	29.65	2470	50		49.4			50		0
Nitroglycerin			50		0	16.47	3172	50		63.44
PETN			50		0	33.29	1531	50		30.62
3,5-Dinitroaniline	14.58	5320	50		106.4			50		0
EGDN			50		0			50		0

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/2/2010 9:05 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d
Lab Smp Id: CS_04 10GCSV0049 83
Inj Date : 01-MAR-2010 20:24
Operator : NS Inst ID: LC10.i
Smp Info : CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1
Misc Info : ;4; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 20:24 Cal File: A-000013.d
Als bottle: 64 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.458	45436	6811	0.150	8.48		2 HMX
8.048	49685	4789	0.096	5.96		3 RDX
9.304	126738	9168	0.072	11.49		5 Picric ACID
10.628	104984	8360	0.080	10.41		6 1,3,5-Trinitrobenze
13.684	127399	8162	0.064	10.16		7 1,3-Dinitrobenzene
14.578	87627	5320	0.061	6.62		8 3,5-Dinitroaniline
15.184	70751	4408	0.062	5.49		9 TETRYL
15.538	66616	3846	0.058	4.79		10 Nitrobenzene
16.414	794	49	0.062	0.06		
17.438	86851	4819	0.055	6.00		12 2,4,6-Trinitrotolue
18.214	68102	3572	0.052	4.44		13 4-AM-2,6-DNT
18.808	42245	2316	0.055	2.88	$	1 3,4-Dinitrotoluene
19.361	85824	4071	0.047	5.07		14 2-AM-4,6-DNT
21.091	57775	2815	0.049	3.50		15 2,6-Dinitrotoluene
21.891	100836	4630	0.046	5.76		16 2,4-Dinitrotoluene
25.498	55654	2099	0.038	2.61		17 2-Nitrotoluene
27.491	71148	2497	0.035	3.11		18 4-Nitrotoluene
29.651	75929	2470	0.033	3.07		19 3-Nitrotoluene
31.271	501	33	0.066	0.04		
33.598	774	52	0.067	0.06		
	1325667	80287		100.000		

Total unknown % height = 0.1600

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d

Date : 01-MAR-2010 20:24

Client ID:

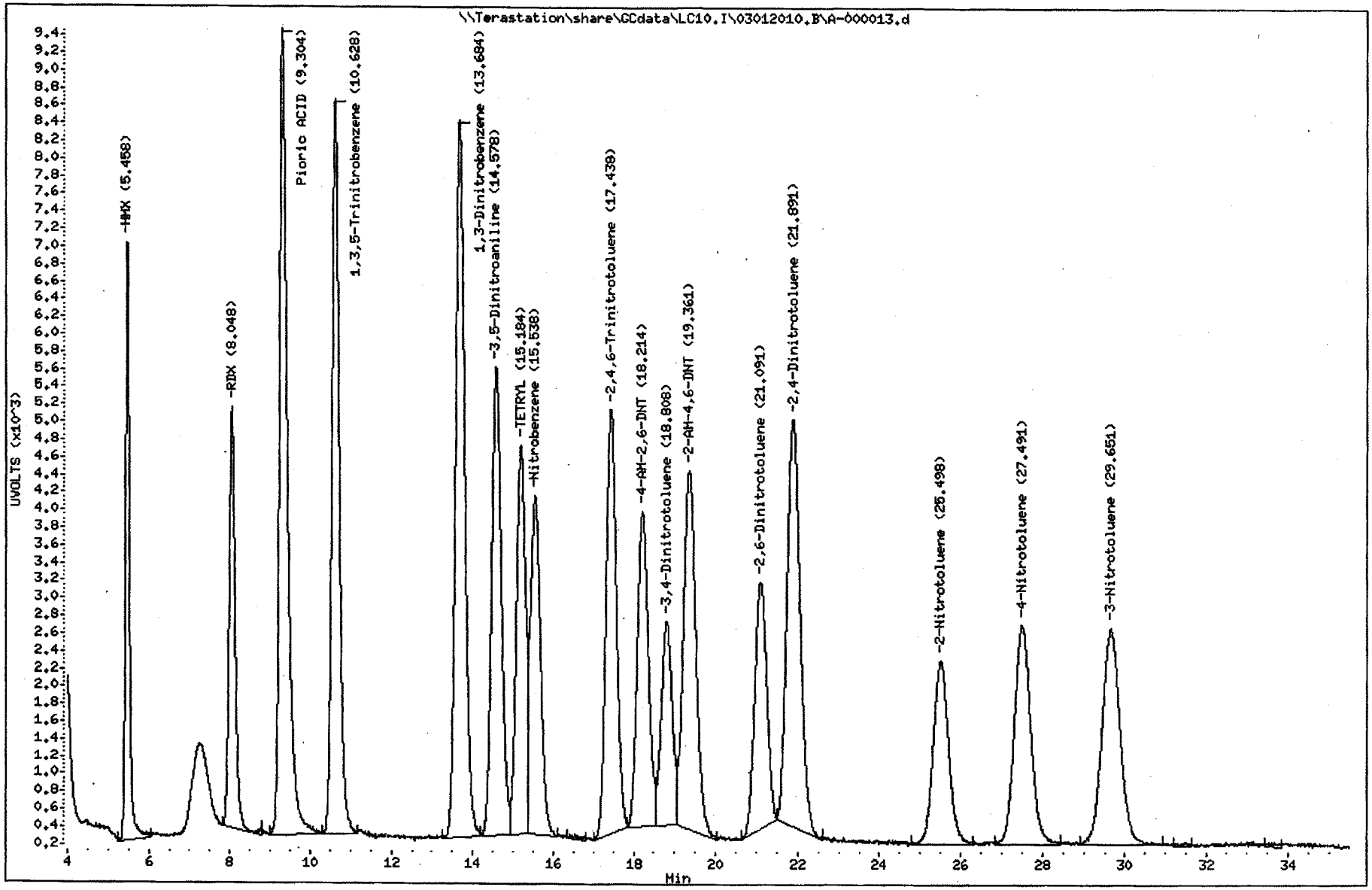
Sample Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1

Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i

Operator: NS

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013
Lab Smp Id: CS_04 10GCSV0049 83
Inj Date : 01-MAR-2010 20:24
Operator : NS Inst ID: LC10.i
Smp Info : CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1
Misc Info : ;4; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 20:24 Cal File: A-000013.d
Als bottle: 64 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.304	185295	13461	0.073	16.49		5 Picric ACID
10.614	3096	161	0.052	0.19		
13.678	65133	4218	0.065	5.13		
14.584	93353	5620	0.060	6.84		
15.184	96571	6042	0.063	7.36		
15.544	110731	6137	0.055	7.47		
16.468	53997	3172	0.059	3.86		11 Nitroglycerin
17.434	96161	5220	0.054	6.35		
18.227	107414	5450	0.051	6.63		
18.811	91472	4744	0.052	5.77	$	1 3,4-Dinitrotoluene
19.344	96900	4395	0.045	5.35		
21.094	100166	4846	0.048	5.90		
21.874	78671	3597	0.046	4.38		
23.294	251	35	0.139	0.04		
25.498	129596	4969	0.038	6.05		
26.711	1501	100	0.067	0.12		
27.504	102174	3635	0.036	4.42		
29.648	141933	4757	0.034	5.79		
33.291	54975	1531	0.028	1.86		20 PETN
	1609390	82090		100.000		

Total unknown % height = 72.02

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d

Date : 01-MAR-2010 20:24

Client ID:

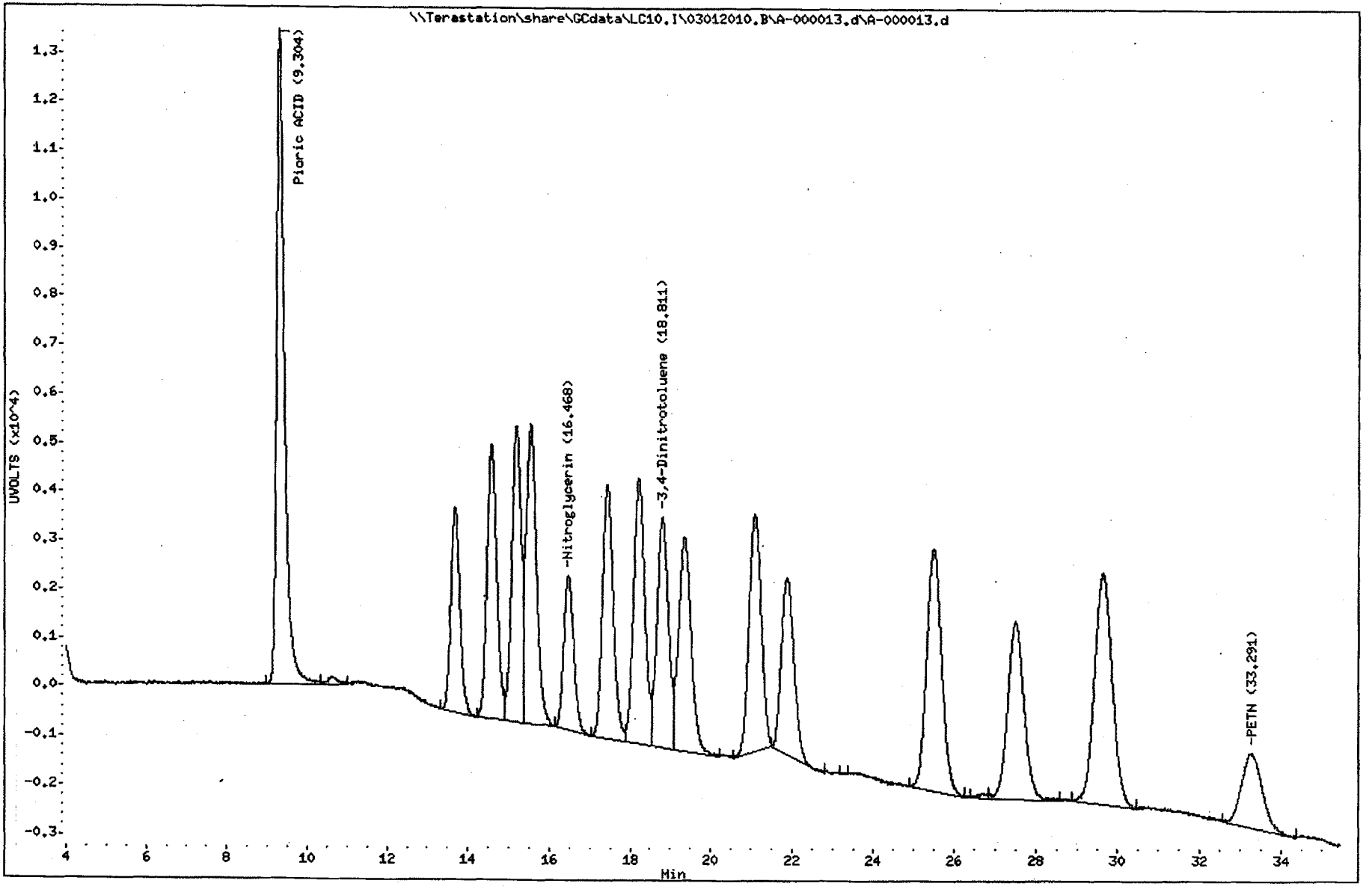
Instrument: LC10.i

Sample Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL:1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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A-000014.D

Chromatography Summary

Injection Date: 3/1/2010 21:12 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000014.D **Vial Num:** 65

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_05 10GCSV0072 8330 ICAL L5 100ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 21:12

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
IX	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Misc. Info: ;5; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.81	4722	100		47.22	18.81	9643	100		96.43
HMX	5.47	12992	100		129.92			100		0
RDX	8.06	9110	100		91.1			100		0
Picric ACID	9.29	18284	200		91.42	9.29	26894	200		134.47
1,3,5-Trinitrobenzene	10.63	16047	100		160.47			100		0
1,3-Dinitrobenzene	13.68	15623	100		156.23			100		0
TETRYL	15.19	8137	100		81.37			100		0
Nitrobenzene	15.54	7347	100		73.47			100		0
2,4,6-Trinitrotoluene	17.44	8994	100		89.94			100		0
4-AM-2,6-DNT	18.23	6860	100		68.6			100		0
2-AM-4,6-DNT	19.35	7804	100		78.04			100		0
2,6-Dinitrotoluene	21.10	5415	100		54.15			100		0
2,4-Dinitrotoluene	21.88	8851	100		88.51			100		0
2-Nitrotoluene	25.49	3996	100		39.96			100		0
4-Nitrotoluene	27.49	4760	100		47.6			100		0
3-Nitrotoluene	29.63	4686	100		46.86			100		0
Nitroglycerin			100		0	16.47	6294	100		62.94
PETN			100		0	33.25	3028	100		30.28
3,5-Dinitroaniline	14.59	10143	100		101.43			100		0
EGDN			100		0			100		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:05 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d
Lab Smp Id: CS_05 10GCSV0072 83
Inj Date : 01-MAR-2010 21:12
Operator : NS Inst ID: LC10.i
Smp Info : CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 21:12 Cal File: A-000014.d
Als bottle: 65 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
4.899	891	54	0.061	0.03		
5.465	84795	12992	0.153	8.43	2	HMX
8.059	94702	9110	0.096	5.91	3	RDX
8.752	1023	89	0.087	0.05		
9.292	250834	18284	0.073	11.98	5	Picric ACID
10.632	202288	16047	0.079	10.42	6	1,3,5-Trinitrobenze
13.149	154	48	0.313	0.03		
13.682	245159	15623	0.064	10.14	7	1,3-Dinitrobenzene
14.585	167761	10143	0.060	6.58	8	3,5-Dinitroaniline
15.192	128683	8137	0.063	5.28	9	TETRYL
15.542	129697	7347	0.057	4.77	10	Nitrobenzene
17.435	161386	8994	0.056	5.84	12	2,4,6-Trinitrotolue
18.225	130131	6860	0.053	4.45	13	4-AM-2,6-DNT
18.812	87264	4722	0.054	3.06	$ 1	3,4-Dinitrotoluene
19.352	162723	7804	0.048	5.06	14	2-AM-4,6-DNT
21.099	110606	5415	0.049	3.51	15	2,6-Dinitrotoluene
21.879	193383	8851	0.046	5.74	16	2,4-Dinitrotoluene
25.489	104870	3996	0.038	2.59	17	2-Nitrotoluene
27.492	133962	4760	0.036	3.09	18	4-Nitrotoluene
29.625	143046	4686	0.033	3.04	19	3-Nitrotoluene
	2533356	153962		100.000		

Total unknown % height = 0.1100

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d

Page 2

Date : 01-MAR-2010 21:12

Client ID:

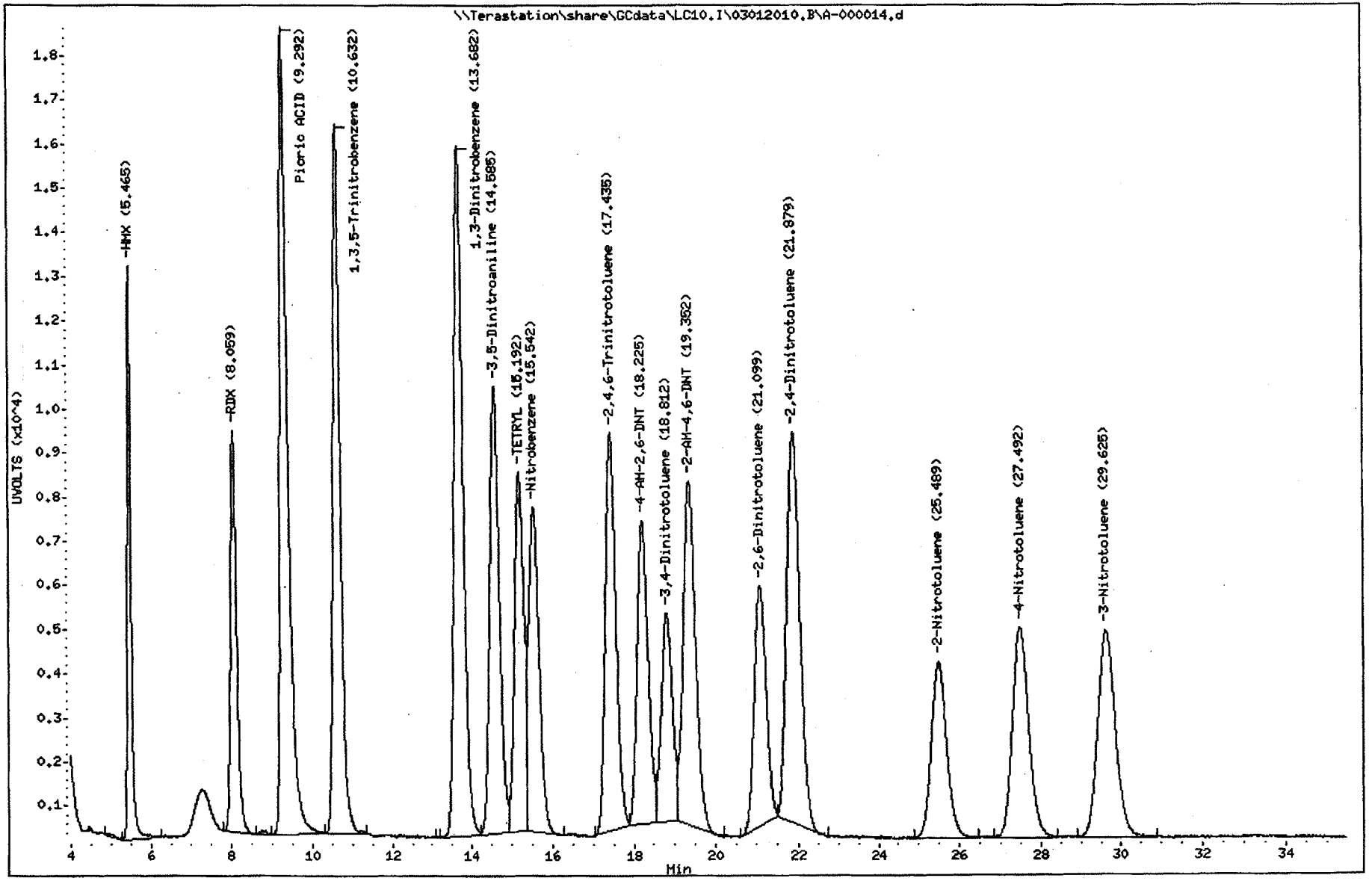
Instrument: LC10.i

Sample Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014
Lab Smp Id: CS_05 10GCSV0072 83
Inj Date : 01-MAR-2010 21:12
Operator : NS Inst ID: LC10.i
Smp Info : CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 21:12 Cal File: A-000014.d
Als bottle: 65 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.292	368801	26894	0.073	16.99		5 Picric ACID
10.642	3652	274	0.075	0.17		
13.685	126129	8084	0.064	5.08		
14.582	178328	10700	0.060	6.72		
15.192	176375	11068	0.063	6.95		
15.542	207658	11615	0.056	7.30		
16.472	107558	6294	0.059	3.95		11 Nitroglycerin
17.435	177451	9680	0.055	6.08		
18.222	206978	10475	0.051	6.58		
18.812	188383	9643	0.051	6.06	$	1 3,4-Dinitrotoluene
19.349	180809	8403	0.046	5.28		
21.095	210800	9689	0.046	6.09		
21.882	170677	7368	0.043	4.63		
25.492	247837	9554	0.039	6.00		
27.495	197576	6973	0.035	4.38		
29.625	284762	9302	0.033	5.84		
33.245	115468	3028	0.026	1.90		20 PETN
	3149242	159044		100.000		

Total unknown % height = 71.10

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014.d

Page 2

Date : 01-MAR-2010 21:12

Client ID:

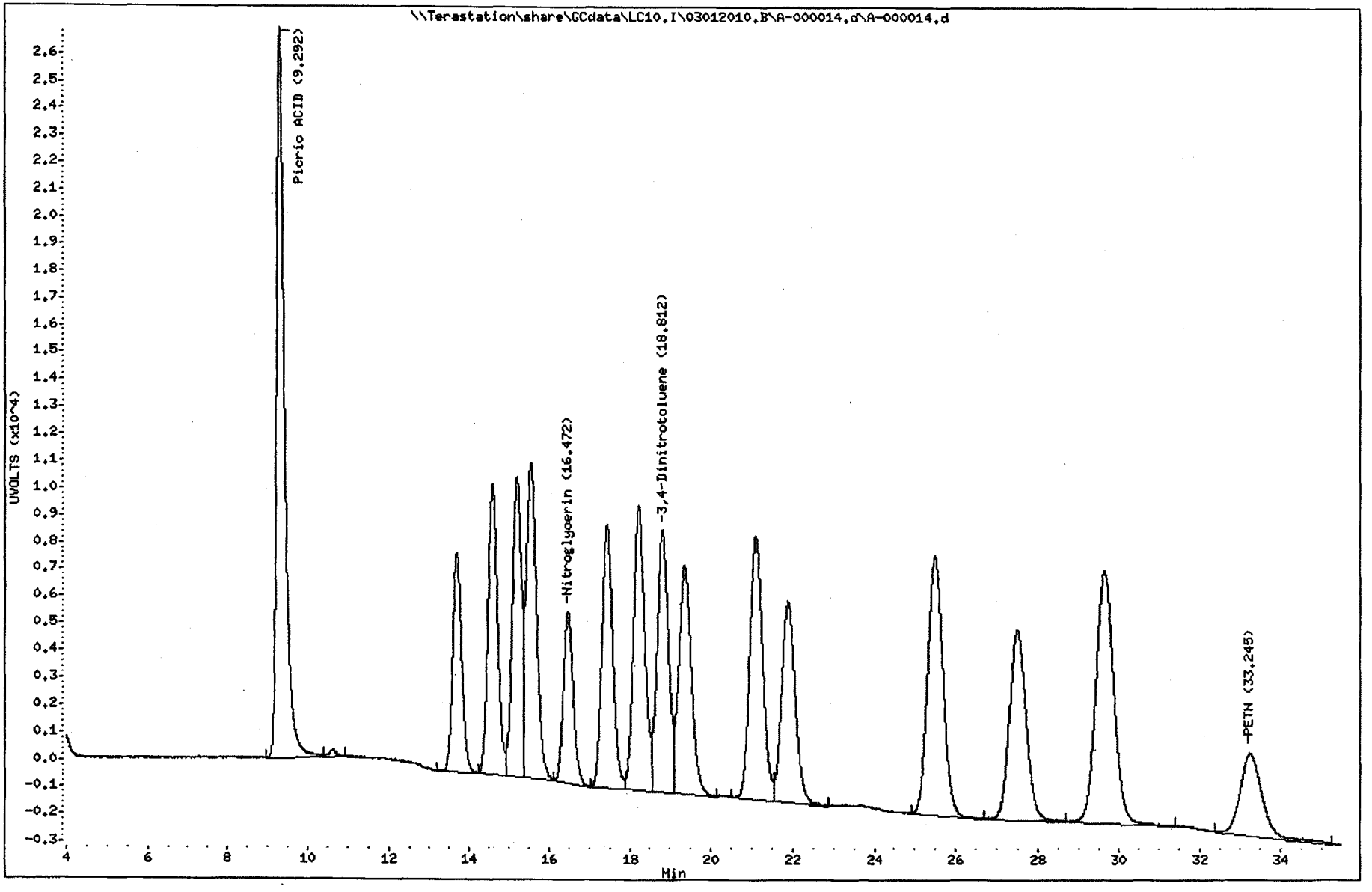
Instrument: LC10.i

Sample Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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A-000015.D

Chromatography Summary

Injection Date: 3/1/2010 22:01 Operator: NS

DataFile: LC10.I\03012010.B\A-000015.D Vial Num: 66

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_06 09GCSV0482 8330 ICAL L6 200ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 End Cal Date: 3/1/2010 22:01

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1

Misc. Info: ;6; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.78	9276	200		46.38	18.78	19015	200		95.075
HMX	5.46	25936	200		129.68✓			200		0
RDX	8.05	18350	200		91.75			200		0
Picric ACID	9.23	42896	500		85.792	9.23	63395	500		126.79
1,3,5-Trinitrobenzene	10.62	32235	200		161.175			200		0
1,3-Dinitrobenzene	13.67	31365	200		156.825			200		0
TETRYL	15.17	18187	200		90.935			200		0
Nitrobenzene	15.53	14816	200		74.08			200		0
2,4,6-Trinitrotoluene	17.42	18851	200		94.255			200		0
4-AM-2,6-DNT	18.19	13722	200		68.61			200		0
2-AM-4,6-DNT	19.33	15663	200		78.315			200		0
2,6-Dinitrotoluene	21.07	10842	200		54.21			200		0
2,4-Dinitrotoluene	21.85	17751	200		88.755			200		0
2-Nitrotoluene	25.44	7986	200		39.93			200		0
4-Nitrotoluene	27.44	9602	200		48.01			200		0
3-Nitrotoluene	29.58	9394	200		46.97			200		0
Nitroglycerin			200		0	16.45	12767	200		63.835
PETN			200		0	33.19	6111	200		30.555
3,5-Dinitroaniline	14.56	20374	200		101.87			200		0
EGDN			200		0			200		0

Notes: M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/2/2010 9:05 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d
Lab Smp Id: CS_06 09GCSV0482 83
Inj Date : 01-MAR-2010 22:01
Operator : NS Inst ID: LC10.i
Smp Info : CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:01 Cal File: A-000015.d
Als bottle: 66 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.457	166216	25936	0.156	8.16		2	HMX
8.047	189677	18350	0.097	5.77		3	RDX
8.730	1631	159	0.098	0.05			
9.234	591132	42896	0.073	13.61		5	Picric ACID
10.624	407448	32235	0.079	10.15		6	1,3,5-Trinitrobenze
11.860	1644	86	0.052	0.02			
13.670	488611	31365	0.064	9.87		7	1,3-Dinitrobenzene
14.560	335467	20374	0.061	6.41		8	3,5-Dinitroaniline
15.170	289540	18187	0.063	5.72		9	TETRYL
15.527	259183	14816	0.057	4.66		10	Nitrobenzene
17.417	336323	18851	0.056	5.93		12	2,4,6-Trinitrotolue
18.194	257823	13722	0.053	4.32		13	4-AM-2,6-DNT
18.784	169956	9276	0.055	2.92	$	1	3,4-Dinitrotoluene
19.327	325914	15663	0.048	4.93		14	2-AM-4,6-DNT
21.070	220190	10842	0.049	3.41		15	2,6-Dinitrotoluene
21.850	386688	17751	0.046	5.59		16	2,4-Dinitrotoluene
25.444	208911	7986	0.038	2.51		17	2-Nitrotoluene
27.440	270259	9602	0.036	3.02		18	4-Nitrotoluene
29.584	284175	9394	0.033	2.95		19	3-Nitrotoluene
	5190789	317491		100.000			

Total unknown % height = 0.07000

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d

Date : 01-MAR-2010 22:01

Client ID:

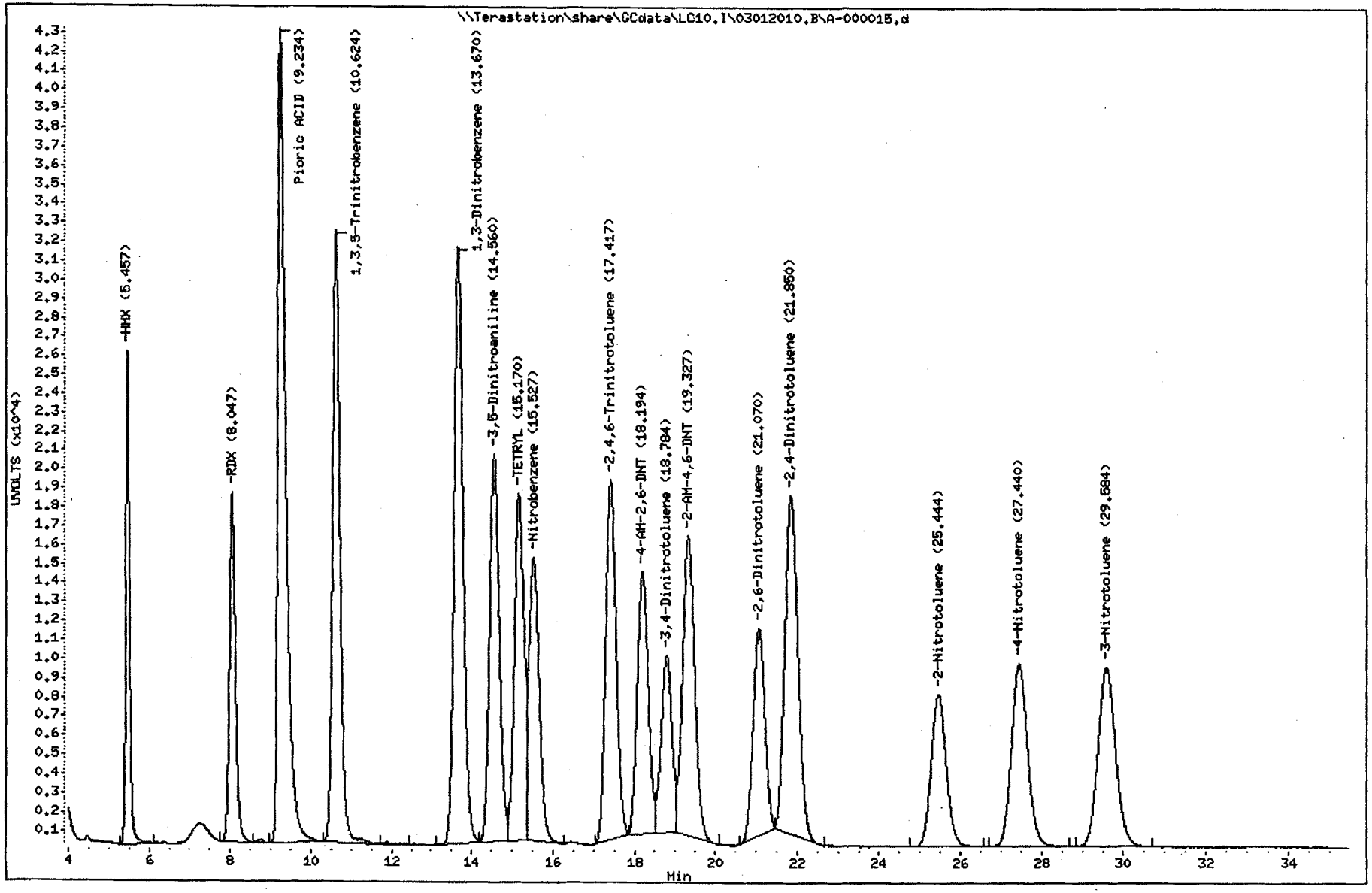
Sample Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1

Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i

Operator: NS

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015
Lab Smp Id: CS_06 09GCSV0482 83
Inj Date : 01-MAR-2010 22:01
Operator : NS Inst ID: LC10.i
Smp Info : CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:01 Cal File: A-000015.d
Als bottle: 66 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

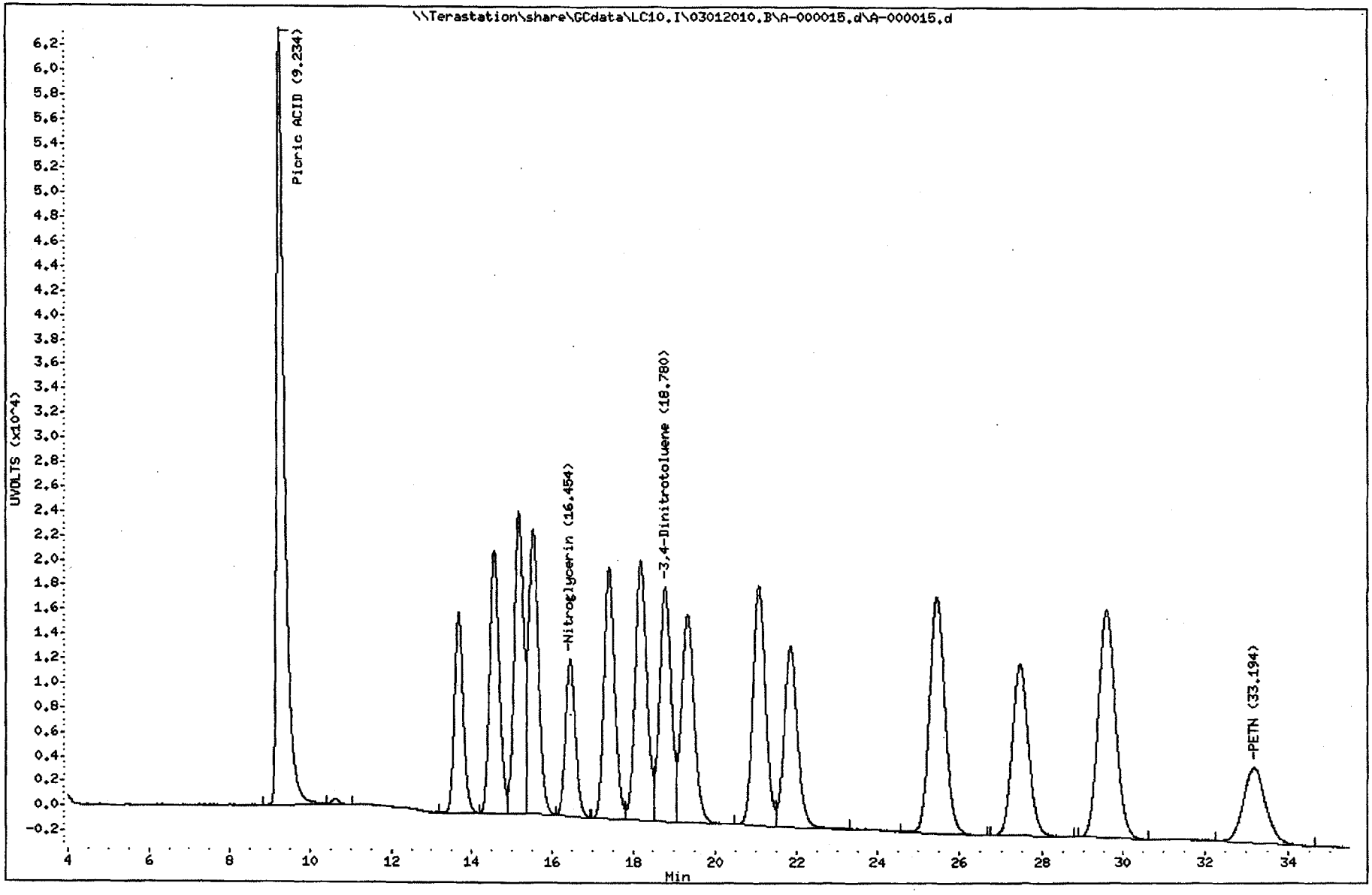
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.234	877907	63395	0.072	19.19		5 Picric ACID
10.604	7563	502	0.066	0.15		
13.670	251870	16263	0.065	4.90		
14.560	352985	21428	0.061	6.46		
15.170	390872	24641	0.063	7.42		
15.530	411489	23218	0.056	7.00		
16.454	217083	12767	0.059	3.84		11 Nitroglycerin
17.417	374262	20442	0.055	6.16		
18.194	411896	21054	0.051	6.34		
18.780	370374	19015	0.051	5.73	$	1 3,4-Dinitrotoluene
19.324	363092	16897	0.047	5.09		
21.070	421536	19456	0.046	5.86		
21.850	338306	14649	0.043	4.41		
25.447	503563	19242	0.038	5.80		
27.447	392412	13998	0.036	4.22		
29.580	556077	18569	0.033	5.59		
33.194	224921	6111	0.027	1.84		20 PETN
	6466209	331647		100.000		

Total unknown % height = 69.40

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015.d
Date : 01-MAR-2010 22:01
Client ID:
Sample Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

A-000016.D

Chromatography Summary

Injection Date: 3/1/2010 22:49 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000016.D **Vial Num:** 67

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_07 10GCSV0050 8330 ICAL L7 500ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Misc. Info: ;7;;;;3;CAL.sub;;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.77	15143	300		50.47666667	18.77	28557	300		95.19
HMX	5.45	62615	500		125.23			500		0
RDX	8.02	41614	500		83.228			500		0
Picric ACID	9.16	80007	1000		80.007	9.16	118234	1000		118.234
1,3,5-Trinitrobenzene	10.60	76711	500		153.422			500		0
1,3-Dinitrobenzene	13.65	73699	500		147.398			500		0
TETRYL	15.17	42860	500		85.72			500		0
Nitrobenzene	15.51	35969	500		71.938			500		0
2,4,6-Trinitrotoluene	17.41	46415	500		92.83			500		0
4-AM-2,6-DNT	18.18	34807	500		69.614			500		0
2-AM-4,6-DNT	19.31	39096	500		78.192			500		0
2,6-Dinitrotoluene	21.06	27792	500		55.584			500		0
2,4-Dinitrotoluene	21.83	45016	500		90.032			500		0
2-Nitrotoluene	25.43	19577	500		39.154			500		0
4-Nitrotoluene	27.43	23579	500		47.158			500		0
3-Nitrotoluene	29.56	23281	500		46.562			500		0
Nitroglycerin			500		0	16.45	31894	500		63.788
PETN			500		0	33.18	15365	500		30.73
3,5-Dinitroaniline	14.55	48271	500		96.542			500		0
EGDN			500		0			500		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:13 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d
Lab Smp Id: CS_07 10GCSV0050 83
Inj Date : 01-MAR-2010 22:49
Operator : NS Inst ID: LC10.i
Smp Info : CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1
Misc Info : ;7; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:49 Cal File: A-000016.d
Als bottle: 67 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.451	416901	62615	0.150	8.49		2 HMX
8.024	480570	41614	0.087	5.64		3 RDX
8.731	3125	314	0.100	0.04		
9.165	1211667	80007	0.066	10.94		5 Picric ACID
10.605	1035221	76711	0.074	10.40		6 1,3,5-Trinitrobenze
11.848	1527	100	0.066	0.01		
13.655	1252608	73699	0.059	9.99		7 1,3-Dinitrobenzene
14.548	871282	48271	0.055	6.54		8 3,5-Dinitroaniline
15.168	708842	42860	0.060	5.81		9 TETRYL
15.508	678947	35969	0.053	4.87		10 Nitrobenzene
16.441	12261	474	0.039	0.06		
17.408	880489	46415	0.053	6.29		12 2,4,6-Trinitrotolue
18.181	728730	34807	0.048	4.72		13 4-AM-2,6-DNT
18.771	295106	15143	0.051	2.05	$	1 3,4-Dinitrotoluene
19.308	895530	39096	0.044	5.30		14 2-AM-4,6-DNT
21.058	624449	27792	0.045	3.76		15 2,6-Dinitrotoluene
21.835	1077151	45016	0.042	6.10		16 2,4-Dinitrotoluene
25.435	527736	19577	0.037	2.65		17 2-Nitrotoluene
27.435	681957	23579	0.035	3.19		18 4-Nitrotoluene
29.565	724652	23281	0.032	3.15		19 3-Nitrotoluene
33.008	394	56	0.142	0.00		
	13109141	737396		100.000		

Total unknown % height = 0.1100

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d

Page 2

Date : 01-MAR-2010 22:49

Client ID:

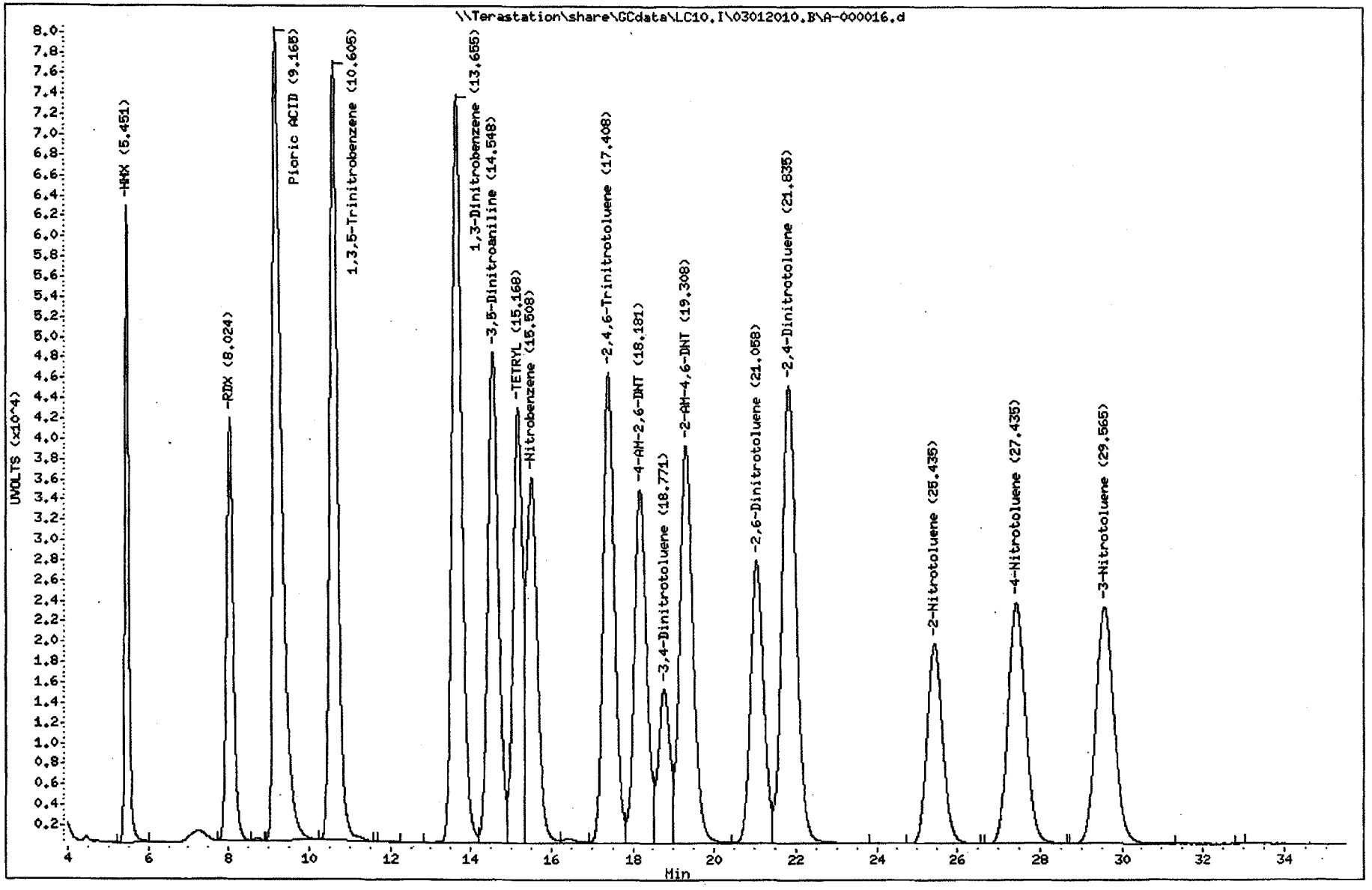
Instrument: LC10.i

Sample Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d\A-000016
Lab Smp Id: CS_07 10GCSV0050 83
Inj Date : 01-MAR-2010 22:49
Operator : NS Inst ID: LC10.i
Smp Info : CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1
Misc Info : ;7; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:49 Cal File: A-000016.d
Als bottle: 67 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.485	1226	134	0.109	0.01		
9.165	1801880	118234	0.066	15.92		5 Picric ACID
10.601	18148	1185	0.065	0.15		
13.655	634901	38065	0.060	5.09		
14.548	888354	50040	0.056	6.69		
15.168	920443	56978	0.062	7.62		
15.508	1035218	55007	0.053	7.36		
16.448	556361	31894	0.057	4.26		11 Nitroglycerin
17.408	925782	49266	0.053	6.59		
18.181	1051955	50896	0.048	6.81		
18.768	569495	28557	0.050	3.82	$	1 3,4-Dinitrotoluene
19.308	920348	40623	0.044	5.43		
21.058	1064633	47412	0.045	6.34		
21.835	858571	35861	0.042	4.79		
24.598	268	47	0.175	0.00		
25.431	1265176	46976	0.037	6.28		
27.435	989216	34437	0.035	4.60		
29.568	1436953	46330	0.032	6.19		
33.181	561924	15365	0.027	2.05		20 PETN
	15500852	747307		100.000		

Total unknown % height = 73.95

Data File: \\Terastation\share\GCdata\LC10,I\03012010,B\A-000016.d\A-000016.d

Date : 01-MAR-2010 22:49

Client ID:

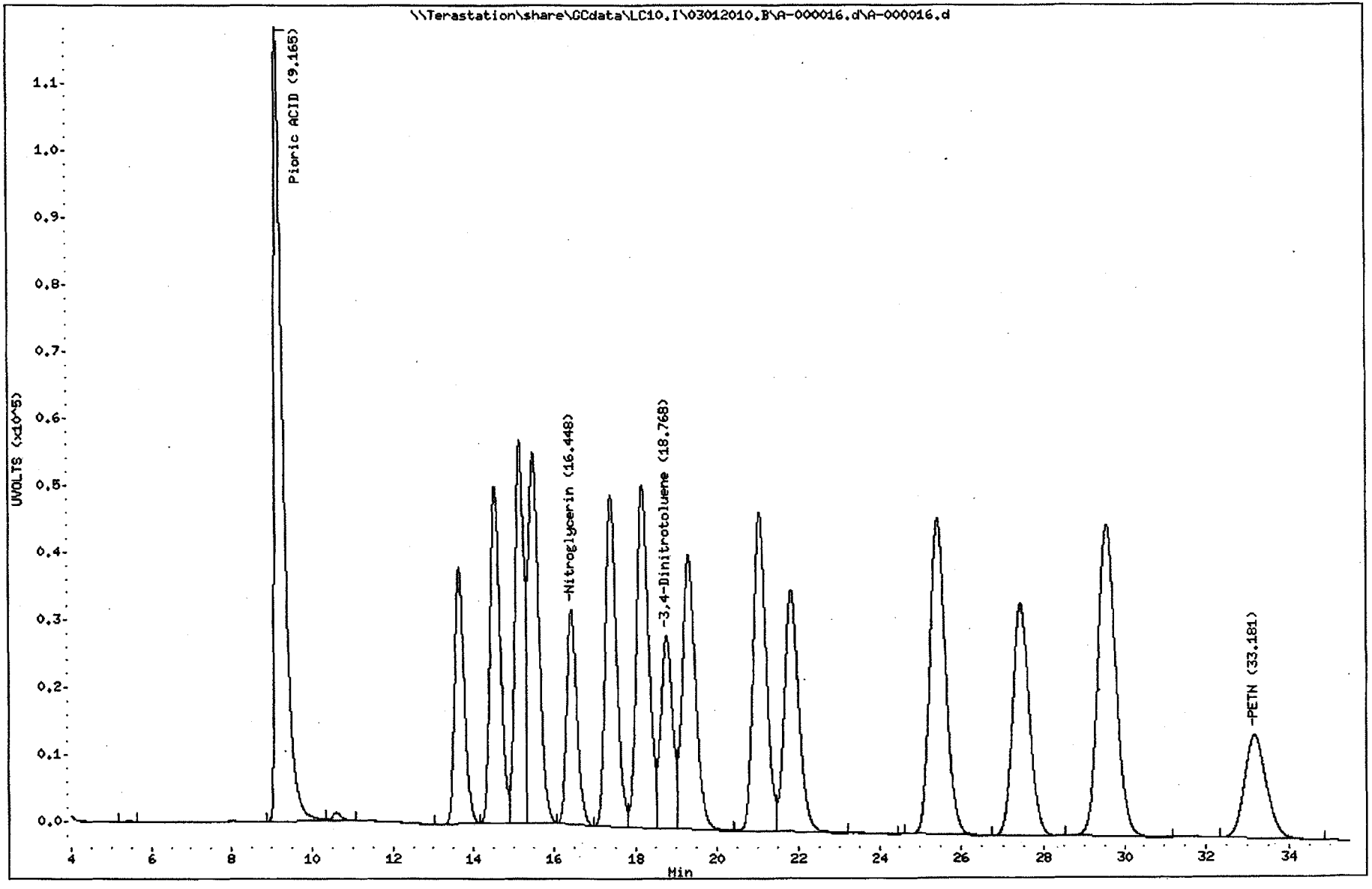
Instrument: LC10,i

Sample Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000017.D

Chromatography Summary

Injection Date: 3/1/2010 23:38 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000017.D **Vial Num:** 68

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1

Misc. Info: ;8; ; ; ;3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.72	24230	500	O	48.46	18.72	45462	500		90.924
HMX	5.43	113959	1000		113.959			1000		0
RDX	7.98	69009	1000		69.009			1000		0
Picric ACID	9.05	140424	2000		70.212	9.05	207615	2000		103.8075
1,3,5-Trinitrobenzene	10.57	138309	1000		138.309			1000		0
1,3-Dinitrobenzene	13.60	129439	1000		129.439			1000		0
TETRYL	15.13	82698	1000		82.698			1000		0
Nitrobenzene	15.44	65004	1000		65.004			1000		0
2,4,6-Trinitrotoluene	17.37	87754	1000		87.754			1000		0
4-AM-2,6-DNT	18.12	63160	1000		63.16			1000		0
2-AM-4,6-DNT	19.24	70541	1000		70.541			1000		0
2,6-Dinitrotoluene	21.00	51559	1000		51.559			1000		0
2,4-Dinitrotoluene	21.78	83626	1000		83.626			1000		0
2-Nitrotoluene	25.38	36496	1000		36.496			1000		0
4-Nitrotoluene	27.38	44327	1000		44.327			1000		0
3-Nitrotoluene	29.52	43900	1000		43.9			1000		0
Nitroglycerin			1000		0	16.40	58641	1000		58.641
PETN			1000		0	33.18	29443	1000		29.443
3,5-Dinitroaniline	14.48	83803	1000		83.803			1000		0
EGDN			1000		0			1000		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:13 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d
Lab Smp Id: CS_8 10GCSV0051 833
Inj Date : 01-MAR-2010 23:38
Operator : NS Inst ID: LC10.i
Smp Info : CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1
Misc Info : ;8; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 68 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.427	827431	113959	0.138	8.56		2	HMX
7.981	952597	69009	0.072	5.18		3	RDX
8.691	5167	488	0.094	0.03			
9.047	2441773	140424	0.058	10.67		5	Picric ACID
10.567	2048475	138309	0.068	10.40		6	1,3,5-Trinitrobenze
11.704	2378	130	0.055	0.00			
12.737	105	32	0.305	0.00			
13.601	2473570	129439	0.052	9.73		7	1,3-Dinitrobenzene
14.484	1724514	83803	0.049	6.30		8	3,5-Dinitroaniline
15.127	1459896	82698	0.057	6.21		9	TETRYL
15.437	1289673	65004	0.050	4.88		10	Nitrobenzene
16.384	20053	821	0.041	0.06			
17.367	1740145	87754	0.050	6.59		12	2,4,6-Trinitrotolue
18.117	1447688	63160	0.044	4.74		13	4-AM-2,6-DNT
18.717	479754	24230	0.051	1.82	$	1	3,4-Dinitrotoluene
19.244	1783414	70541	0.040	5.30		14	2-AM-4,6-DNT
21.004	1228917	51559	0.042	3.87		15	2,6-Dinitrotoluene
21.784	2134514	83626	0.039	6.28		16	2,4-Dinitrotoluene
25.377	1045252	36496	0.035	2.74		17	2-Nitrotoluene
27.384	1350743	44327	0.033	3.33		18	4-Nitrotoluene
29.524	1430938	43900	0.031	3.30		19	3-Nitrotoluene
33.121	6765	174	0.026	0.01			
	25893762	1329883		100.000			

Total unknown % height = 0.1000

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d

Date : 01-MAR-2010 23:38

Client ID:

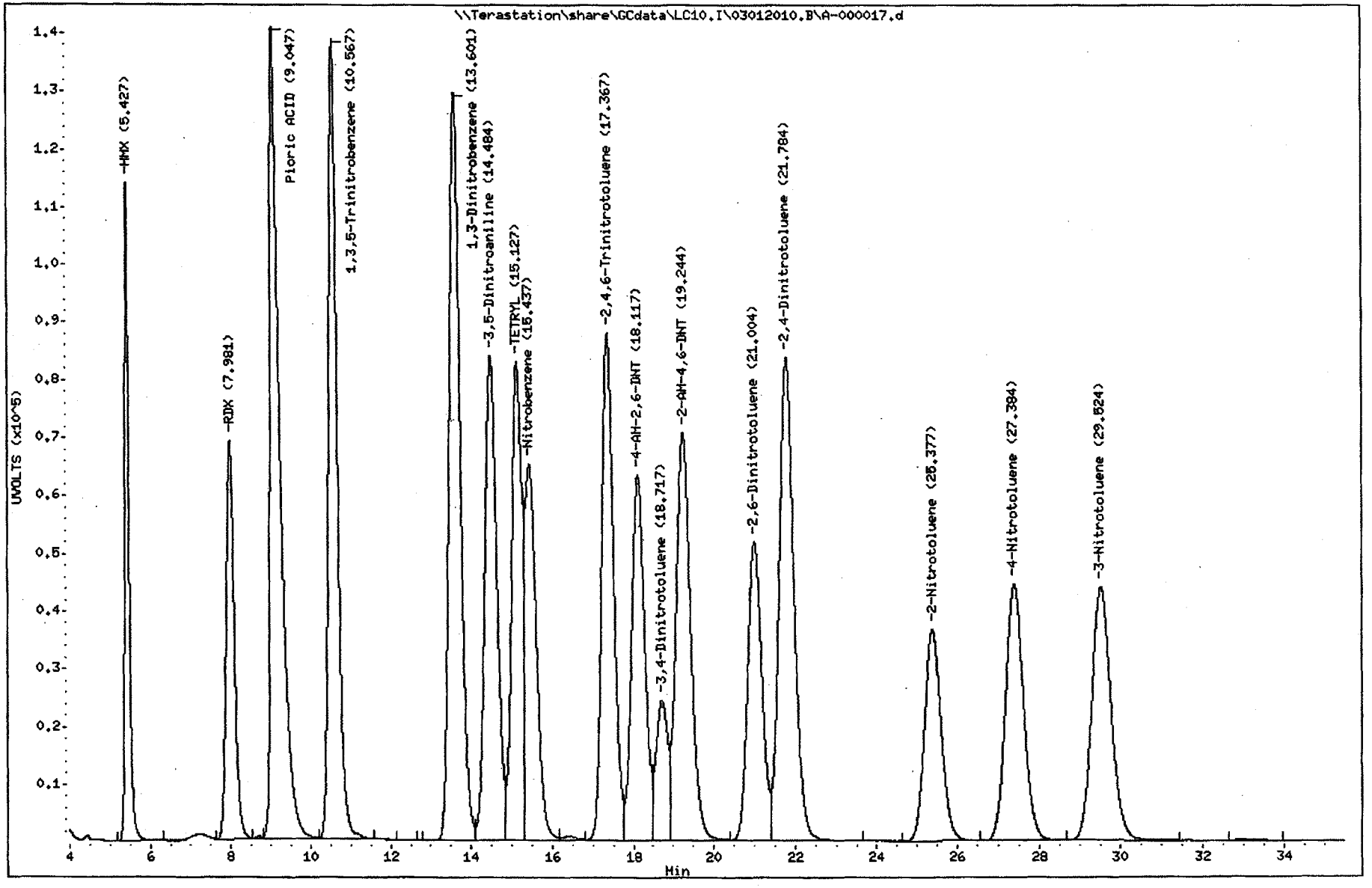
Instrument: LC10.i

Sample Info: CS_8 10CCSV0051 8330 ICAL L8 1000ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017
Lab Smp Id: CS_8 10GCSV0051 833
Inj Date : 01-MAR-2010 23:38
Operator : NS Inst ID: LC10.i
Smp Info : CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1
Misc Info : ;8; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 68 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.447	1758	206	0.117	0.01		
9.047	3637561	207615	0.057	15.38		5 Picric ACID
10.571	37430	2140	0.057	0.15		
13.601	1240595	66569	0.054	4.90		
14.484	1731770	86220	0.050	6.35		
15.127	1874057	109833	0.059	8.09		
15.444	1974943	98419	0.050	7.25		
16.401	1064874	58641	0.055	4.32		11 Nitroglycerin
17.367	1824539	93001	0.051	6.85		
18.117	2091139	92202	0.044	6.79		
18.717	934453	45462	0.049	3.34	$	1 3,4-Dinitrotoluene
19.241	1843762	73481	0.040	5.41		
21.004	2100182	87867	0.042	6.47		
21.784	1707651	66631	0.039	4.90		
24.551	1208	115	0.095	0.00		
25.377	2506382	87542	0.035	6.44		
27.384	1957874	64603	0.033	4.75		
29.524	2846434	87440	0.031	6.44		
33.177	1095804	29443	0.027	2.16		20 PETN
	30472416	1357430		100.000		

Total unknown % height = 74.80

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017.d

Date : 01-MAR-2010 23:38

Client ID:

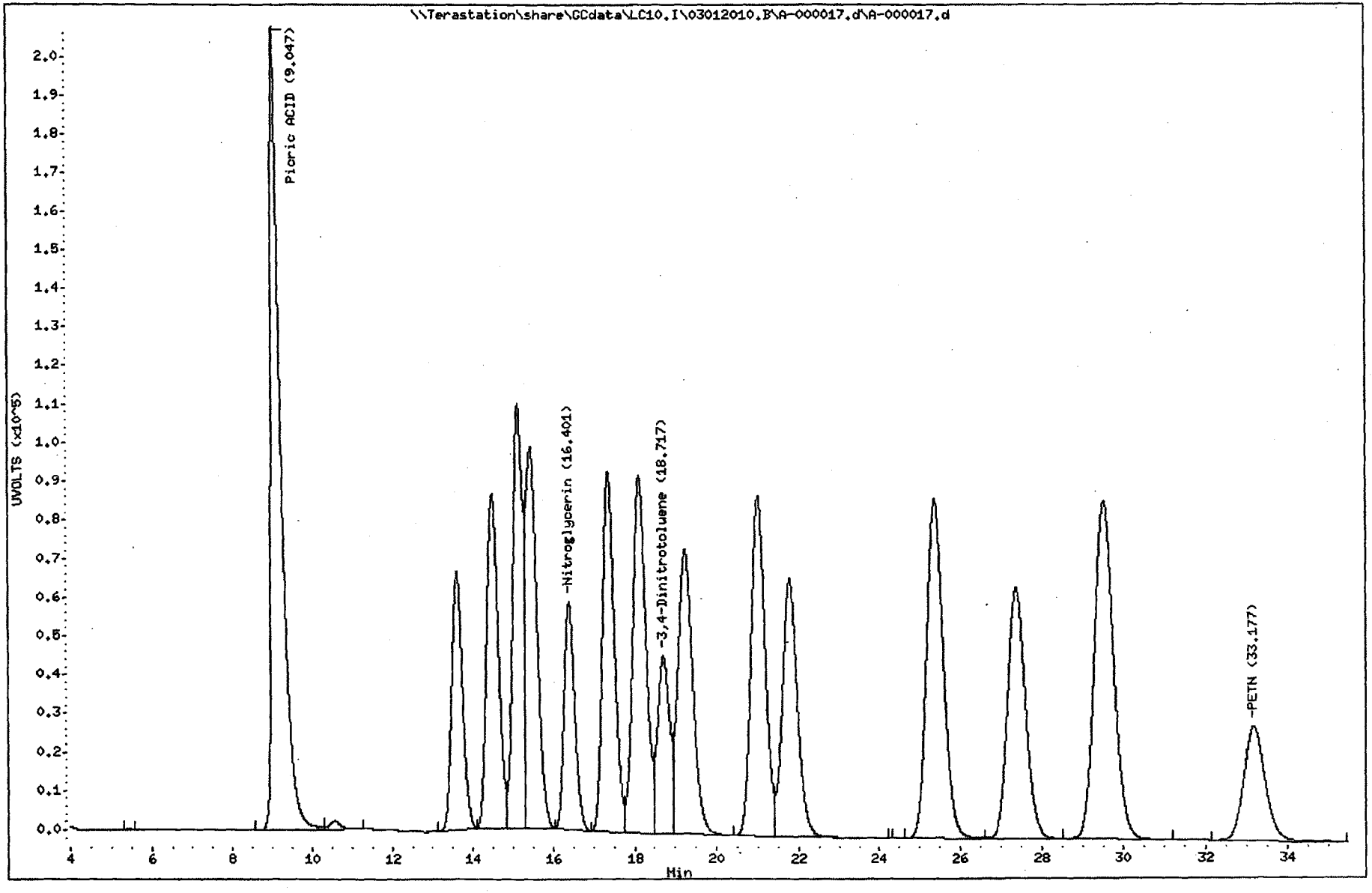
Instrument: LC10.i

Sample Info: CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



Sample Extraction/Preparation Log Copies and Checklists

BW

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TestAmerica West Sacramento
ESC-Extraction Master Sheet

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Holding Time Due: 3/10/10 Project Due: 3/5/10

BATCH #: 0060203 Initiated By: TP Date: 3/1/10

Test #: 8330B-S Extn Comp'd By: TP Date: 3/2/10

QC Code	Lot ID	Sample #	Sample Size / Initial Mass (g)	Final Volume / Final Mass (mL)	Chlorine checked
	MB		10.00	80.00	TP 3/1/10
C	LCS		10.00	80.00	
	A0B250493	01	10.18	80.00	
S		01MS	10.12	80.00	
D		01MSD	10.00	80.00	
		02	9.97	80.00	
		03	10.14	80.00	
		04	10.03	80.00	
		05	10.10	80.00	
		05D4P	10.16	80.00	
	↓	05TRI	10.21	80.00	
	TP~~2~~ 3/1/10				

SOP No.: WS-LC-0009

EXTRACTION COMMENTS:

Multi-incremental Sampling/Date: TP 3/1/10

Dried/Date 2/26/10 Ground//Date 3/1/10

Sonicated - Start: 3/1/10 @ 11:00 End: 5:00 Date: 3/2/10

Cleanup by/Date TP 3/2/10 Dilution by/Date TP 3/2/10

Final Vialling /Date TP 3/2/10

Millipore Water Dispensed / Date N/A

SPE Cartridge: Waters Lot # N/A

QC Codes	Standard Information				
	Volume	STD ID	Exp. Date	STD Name/Conc.	(ppm)/ppb
All	100uL	09GCSV0476	6/2/10	3,4-DNT 50ug/mL	0.5
C,S,D	100uL	09GCSV0472	6/2/10	8330+DNA 50ug/mL	0.5
C,S,D	200uL	09GCSV0481	6/2/10	NG/PETN 50ug/mL	1.0

Spiked By / Date: TP 3/1/10 Witnessed By / Date: HD 3-1-10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD, FB = Filter Blank

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/02/10
Time: 8:30:08

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
					computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 002448 Tuan Q. Phan

Concentrationist: 002448 Tuan Q. Phan

QC BATCH: 0060203

PREP DATE: 3/01/10 11:00
COMP DATE: 3/02/10 7:00

Reviewer/Date: PHANT / 3/01/10

Nitroaromatics & Nitramines: Explosives (8330B)
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/05/10	A0B250493-001 0060136 **LV3RP-1-AC**	DR	13	88	SOLID	**10.18g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/05/10	A0B250493-001 0060136 **LV3RP-1-ADS**	DR	13	88	SOLID	**10.12g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															
3/10/10	3/05/10	A0B250493-001 0060136 **LV3RP-1-AED**	DR	13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															
3/10/10	3/05/10	A0B250493-002 0060136 **LV3R5-1-AC**	DR	13	88	SOLID	**9.97g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/05/10	A0B250493-003 0060136 **LV3R7-1-AC**	DR	13	88	SOLID	**10.14g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/05/10	A0B250493-004 0060136 **LV3R9-1-AC**	DR	13	88	SOLID	**10.03g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/05/10	A0B250493-005 0060136 **LV3TC-1-AC**	DR	13	88	SOLID	**10.10g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/02/10
Time: 8:30:08

QC BATCH: 0060203

PREP DATE: 3/01/10 11:00
COMP DATE: 3/02/10 7:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/05/10	A0B250493-005 0060136 **LV3TC-1-ADX**	DR	13	88	SOLID	**10.16g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:	DUPLICATED														
3/10/10	3/05/10	A0B250493-005 0060136 **LV3TC-1-AEX**	DR	13	88	SOLID	**10.21g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:	TRIP														
3/10/10	0/00/00	G0C010000-203 **LV6Q8-1-AAB**		13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	0/00/00	G0C010000-203 **LV6Q8-1-ACC**		13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															

.1% HOAC/ACN 3844-007E, 1.3G/L CACL2 3844-001B
.45 FILTER MILLIPORE LOT R9EN05392
LCS,MS/MSD 100UL-09GCSV0472,200UL-09GCSV0481

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 11

‡

TestAmerica West Sacramento

Incremental Sub-Sampling

Sample ID	Analyst Initials	Date/Time Sample Drying Started	Date/Time Sample Drying Ended	Particle size needed (circle one)	Project Specific Data (Method and Required Sample Mass in Header) Record Final Mass of Each Requested Test							
					8330 B							
					10 g							
A0B250493-1	TP	2/26/10 12:30	3/1/10 6:00	[✓ Course] Fine	154.68							
A0B250493-2	✓	✓	✓	[✓ Course] Fine	67.54							
A0B250493-3	✓	✓	✓	[✓ Course] Fine	143.55							
A0B250493-4	✓	✓	✓	[✓ Course] Fine	130.84							
A0B250493-5	✓	✓	✓	[✓ Course] Fine	125.37							
				Course Fine								
				Course Fine								
				Course Fine								
				Course Fine								
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				Course Fine								

particle size:
Course=10 mesh (2mm)
Fine = 30 mesh (600um)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Preparation Data Review Checklist

Prep Batch(es): 0060203 Test: 8330B-S

Prep Date: 3/1/10 Holding Times: 3/10/10 NCM: Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate		
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)		
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.		NA
4. Worksheets have been checked for required spiking compounds		
5. Spiking volumes are correctly documented		
6. Std ID numbers on spike labels match numbers on bench sheet		NA
7. Expiration dates have been checked		
8. Calibration expiration dates on pipettors have been checked		NA
9. Spiker and spike witness have signed and dated bench sheet		
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: ~~3-1-10~~ ND 2/1/10 MD Date: 3-1-10

2nd Level Reviewer: [signature] Date: 3/2/10

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

GC/HPLC Data Review Checklist

Lot ID: A0B250493 **Test:** 8330 **PM:** MJL

Prep Batch(es) 0060203 **Due Date:** 3/5/10 **NCM:** Y (N)

A. Calibration/Instrument Run QC	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV Criteria met.	✓	✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria	✓	✓	
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.			✓
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
B. QA/QC			
1. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
2. LCS/LCSD and MB data is included.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	✓	✓	
4. MS/MSD data complete.	✓	✓	
5. Holding Times were met. 3/10/2010	✓	✓	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	✓	✓	
2. Logbooks/prep sheets properly filled out.	✓	✓	
3. Manual Integrations reviewed and appropriate.			✓
4. All raw data for samples is included (applies to unused data as well)	✓	✓	
5. All analytes correctly reported.	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: _____ Date: 3/4/10

2nd Level Reviewer: _____ Date: _____

Comments:

SOLID, 8330M, Nitroguanidine

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

Varian Star Workstation - RecalcList Thu Mar 04 16:00:30 2010

RecalcList: C:\Star\Sample list\NQ-03.03.2010.RCL

Created: Wed Mar 03 13:02:52 2010
Modified: Wed Mar 03 22:58:11 2010

Pg 37

NQ analysis 3-3-10

WS-LC-0010

Line	Sample Type	Sample Name	Data F
1	Verification	Primer WS-LC-0010	3-3-2010=13;12;56-nq-primer ws-lc-0010.
2	Verification	Primer WS-LC-0010	3-3-2010=13;28;55-nq-primer ws-lc-0010.
3	Verification	09GCSV0431	3-3-2010=13;44;58-nq-09gcsv0431.
4	Analysis	G0C010000-207 MB	3-3-2010=14;00;57-nq-g0c010000-207 mb.
5	Analysis	G0C010000-207 LCS	3-3-2010=14;16;56-nq-g0c010000-207 lcs.
6	Analysis	A0B250493-2	3-3-2010=14;32;55-nq-a0b250493-2.
7	Analysis	A0B250493-2MS	3-3-2010=14;48;54-nq-a0b250493-2ms.
8	Analysis	A0B250493-2SD	3-3-2010=15;04;52-nq-a0b250493-2sd.
9	Analysis	G0C020000-232 MB	3-3-2010=15;20;51-nq-g0c020000-232 mb.
10	Analysis	G0C020000-232 LCS	3-3-2010=15;36;50-nq-g0c020000-232 lcs.
11	Analysis	A0B260449-1	3-3-2010=15;52;50-nq-a0b260449-1.
12	Analysis	A0B260449-1MS	3-3-2010=16;08;48-nq-a0b260449-1ms.
13	Analysis	A0B260449-1SD	3-3-2010=16;24;47-nq-a0b260449-1sd.
14	Analysis	A0B230467-1	3-3-2010=16;40;51-nq-a0b230467-1.
15	Analysis	A0B240490-3	3-3-2010=16;56;54-nq-a0b240490-3.
16	Analysis	A0B240490-4	3-3-2010=17;12;56-nq-a0b240490-4.
17	Analysis	A0B240490-16	3-3-2010=17;28;52-nq-a0b240490-16.
18	Verification	09GCSV0430	3-3-2010=17;44;54-nq-09gcsv0430.
19	Analysis	G0B250000-283 MB	3-3-2010=18;00;56-nq-g0b250000-283 mb.
20	Analysis	G0B250000-283 LCS	3-3-2010=18;16;53-nq-g0b250000-283 lcs.
21	Analysis	A0B160474-4	3-3-2010=18;32;50-nq-a0b160474-4.
22	Analysis	A0B160474-4MS	3-3-2010=18;48;51-nq-a0b160474-4ms.
23	Analysis	A0B160474-4SD	3-3-2010=19;04;48-nq-a0b160474-4sd.
24	Analysis	A0B160474-5	3-3-2010=19;20;47-nq-a0b160474-5.
25	Analysis	A0B180429-4	3-3-2010=19;36;46-nq-a0b180429-4.
26	Analysis	A0B180429-12	3-3-2010=19;52;45-nq-a0b180429-12.
27	Analysis	A0B180524-1	3-3-2010=20;08;44-nq-a0b180524-1.
28	Analysis	A0B180524-4	3-3-2010=20;24;43-nq-a0b180524-4.
29	Analysis	A0B180524-5	3-3-2010=20;40;40-nq-a0b180524-5.
30	Verification	09GCSV0430	3-3-2010=20;56;40-nq-09gcsv0430.
31	Analysis	A0B190524-2	3-3-2010=21;12;42-nq-a0b190524-2.
32	Analysis	A0B190524-3	3-3-2010=21;28;41-nq-a0b190524-3.
33	Analysis	A0B190524-10	3-3-2010=21;44;40-nq-a0b190524-10.
34	Analysis	A0B190524-13	3-3-2010=22;00;40-nq-a0b190524-13.

35	Verification	[illegible]	3-3-2010-22;3;41-[illegible]
36	Analysis	BLANK	3-3-2010=22;47;59-mq-blank.

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Title : Destruction Test Document, Nitroguanidine Analysis by HPLC
Run File : c:\star\data\03-2010\3-3-2010=13;44;58-nq-09gcsv0431.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : 09GCSV0431

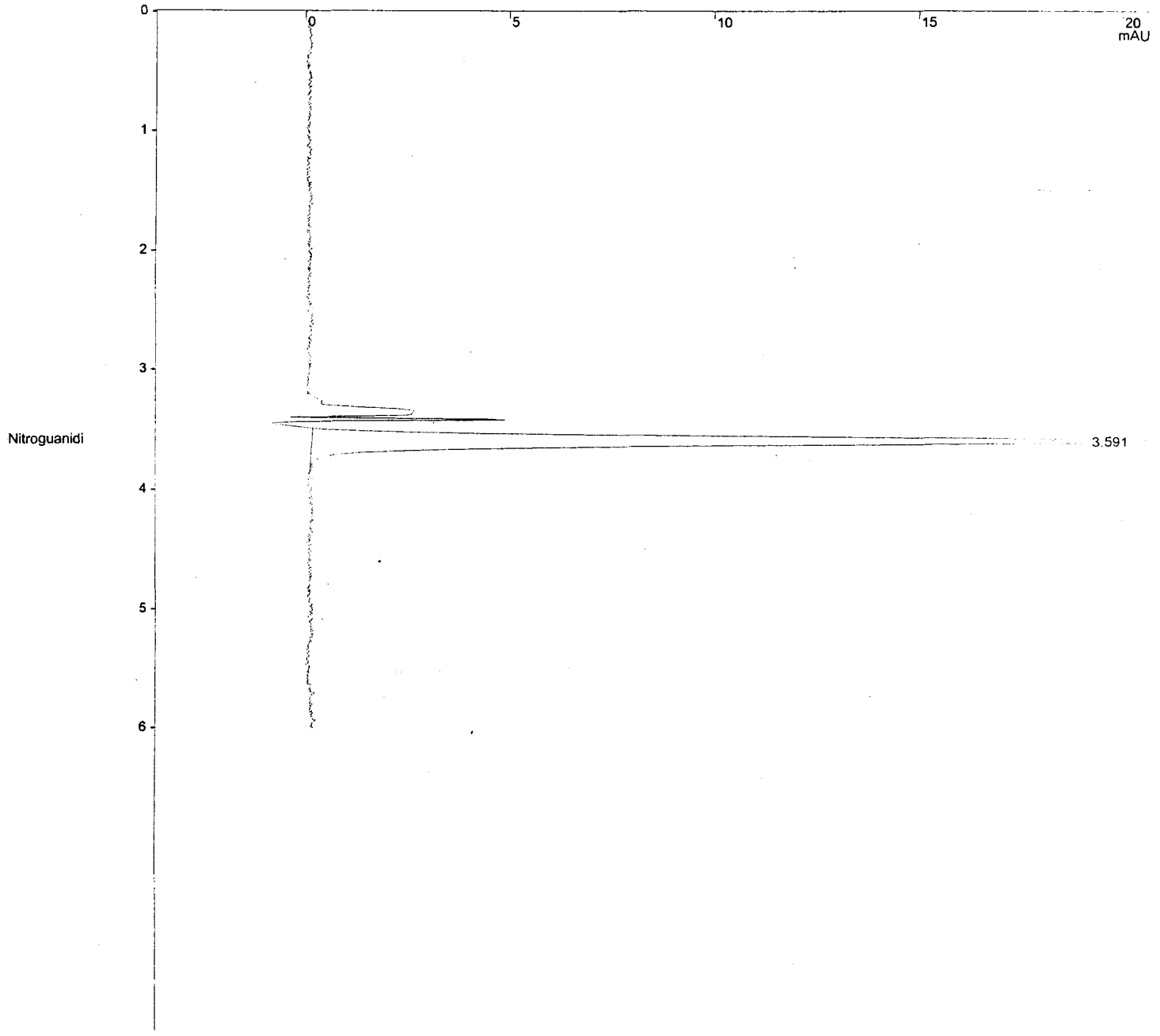
Injection Date: 3/3/2010 13:44 Calculation Date: 3/3/2010 13:53

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Verification Report

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=13;44;58-nq-09gcsv0431.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : 09GCSV0431

Injection Date: 3/3/2010 13:44 Calculation Date: 3/3/2010 13:53

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 5
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	✓ Dev. %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
1	Nitroguanidi	500.0000	486.9466	2.6	3.591	-0.001	2957	
	Totals:		486.9466			-0.001	2957	

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 31 microAU

Noise (used): 167 microAU - monitored before this run

Vial: 16 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

NQ STD 500 ng/mL
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=14;00;57-nq-g0c010000-207 mb.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : G0C010000-207 MB

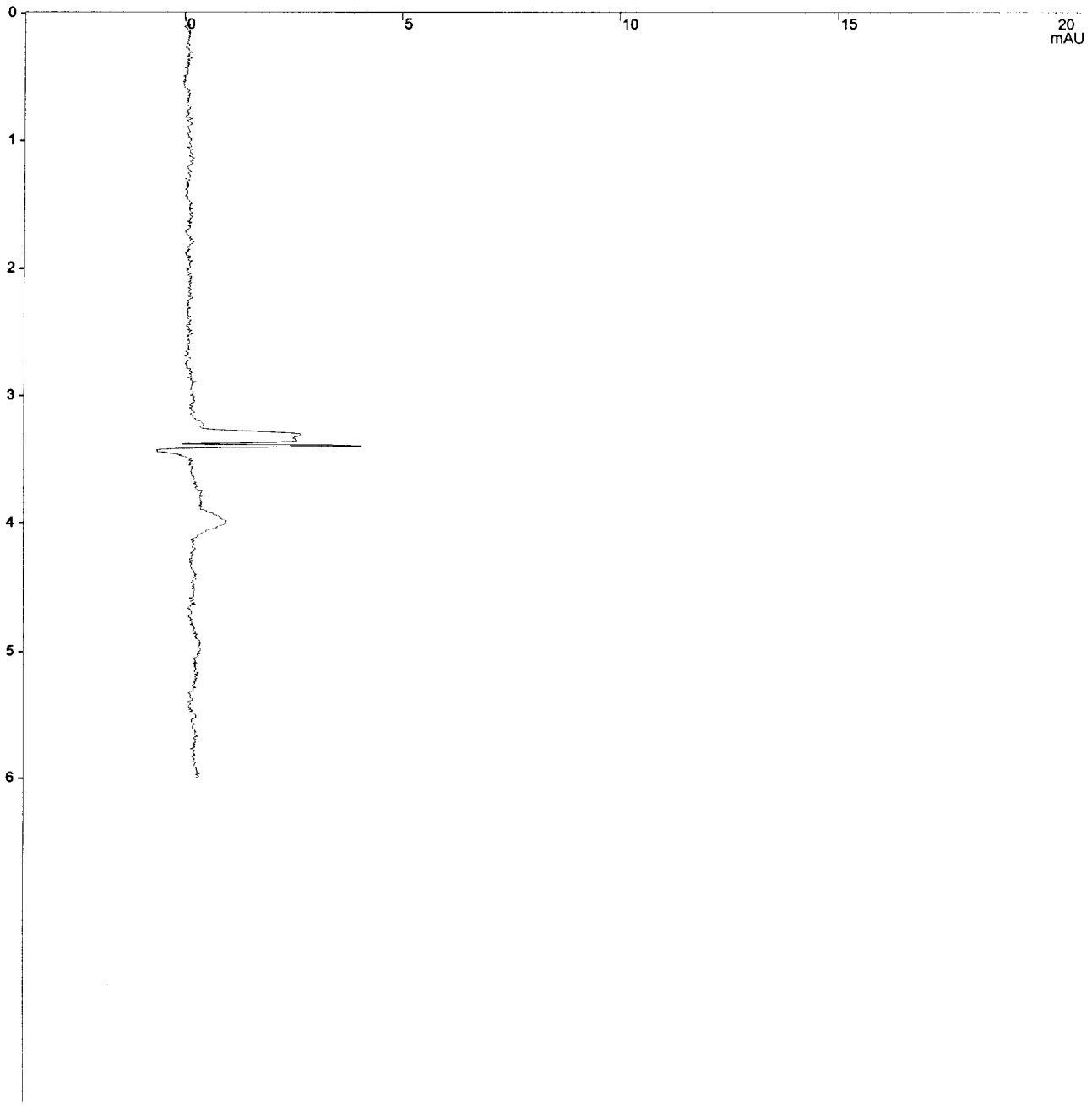
Injection Date: 3/3/2010 14:00 Calculation Date: 3/3/2010 14:09

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=14;00;57-nq-g0c010000-207 mb.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : G0C010000-207 MB

Injection Date: 3/3/2010 14:00 Calculation Date: 3/3/2010 14:09

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
Totals:		0.0000		0.000	0			

Total Unidentified Counts : 0 counts

Detected Peaks: 0 Rejected Peaks: 0 Identified Peaks: 0

Multiplier: 10 Divisor: 2 Unidentified Peak Factor: 0

Baseline Offset: -7 microAU

Noise (used): 251 microAU - monitored before this run

Vial: 35 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Data Handling: No peaks

Original Notes:

0060207 MB, 2G/10ML
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : C:\Star\data\03-2010\3-3-2010=14;16;56-nq-g0c010000-207 lcs.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : G0C010000-207 LCS

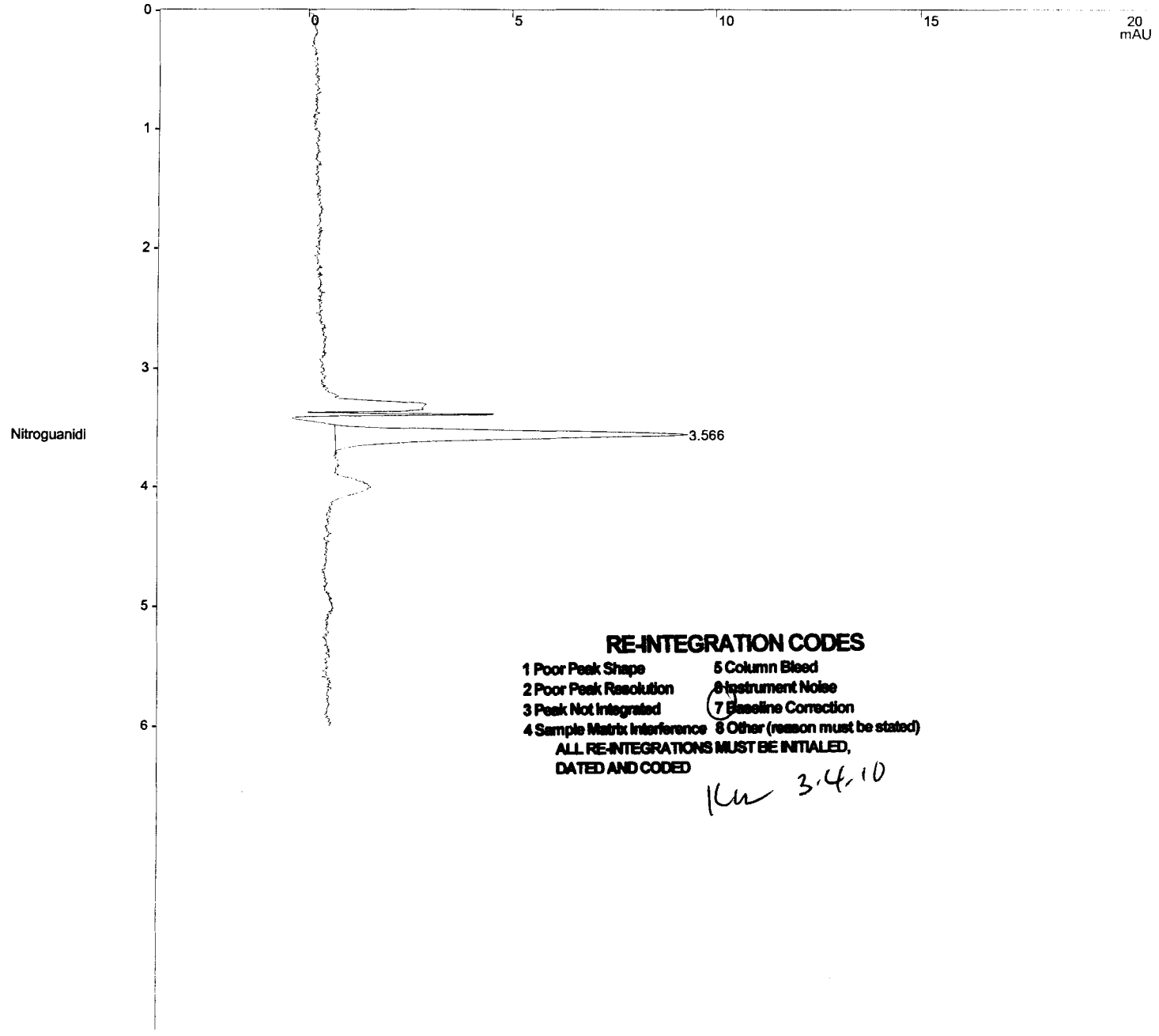
Injection Date: 3/3/2010 14:16 Calculation Date: 3/4/2010 16:03

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

KM 3.4.10

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : C:\Star\data\03-2010\3-3-2010=14;16;56-nq-g0c010000-207 lcs.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : G0C010000-207 LCS

Injection Date: 3/3/2010 14:16 Calculation Date: 3/4/2010 16:03

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	919.7727	3.566	-0.026	1117	BB	4.5	U
	Totals:	919.7727		-0.026	1117			

Status Codes:
U - User-defined peak endpoint(s)

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 10 Divisor: 2 Unidentified Peak Factor: 0

Baseline Offset: 198 microAU

Noise (used): 190 microAU - monitored before this run

Vial: 37 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

RE-INTEGRATION CODES

1 Poor Peak Shape	5 Column Bleed
2 Poor Peak Resolution	6 Instrument Noise
3 Peak Not Integrated	7 Baseline Correction
4 Sample Matrix Interference	8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

Original Notes:

0060207 LCS, 2G/10ML

Appended Notes:

0060207 LCS, 2G/10ML

3-4-10

****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=14;16;56-nq-g0c010000-207 lcs.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : G0C010000-207 LCS

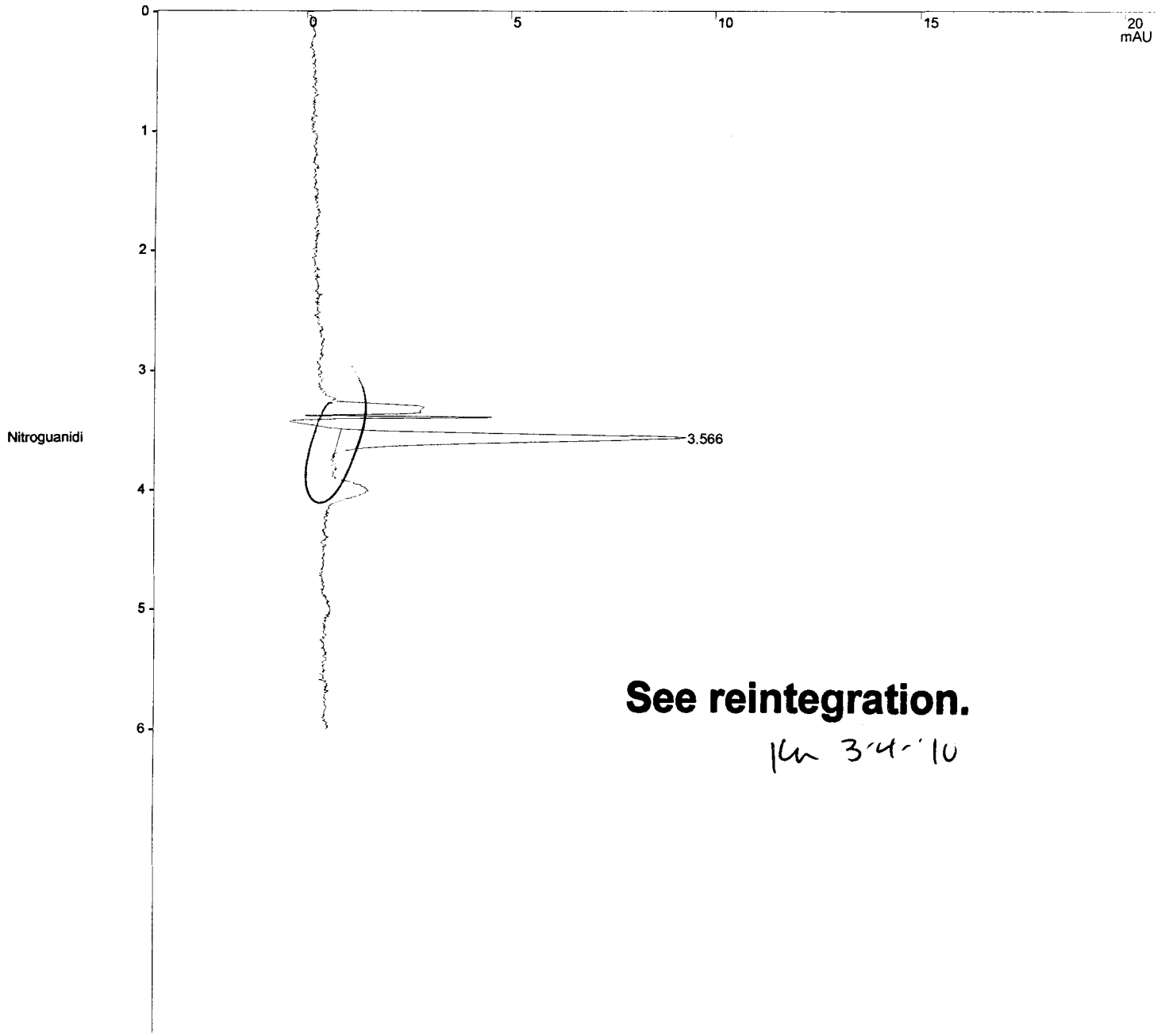
Injection Date: 3/3/2010 14:16 Calculation Date: 3/3/2010 14:25

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



See reintegration.

lm 3-4-10

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=14;16;56-nq-g0c010000-207 lcs.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : G0C010000-207 LCS

Injection Date: 3/3/2010 14:16 Calculation Date: 3/3/2010 14:25

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	903.0169	3.566	-0.026	1097	BB	4.5	
	Totals:	903.0169		-0.026	1097			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 10 Divisor: 2 Unidentified Peak Factor: 0

Baseline Offset: 198 microAU

Noise (used): 190 microAU - monitored before this run

Vial: 37 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

See reintegration.

0060207 LCS, 2G/10ML

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lm 3/4/10

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=14;32;55-nq-a0b250493-2.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B250493-2

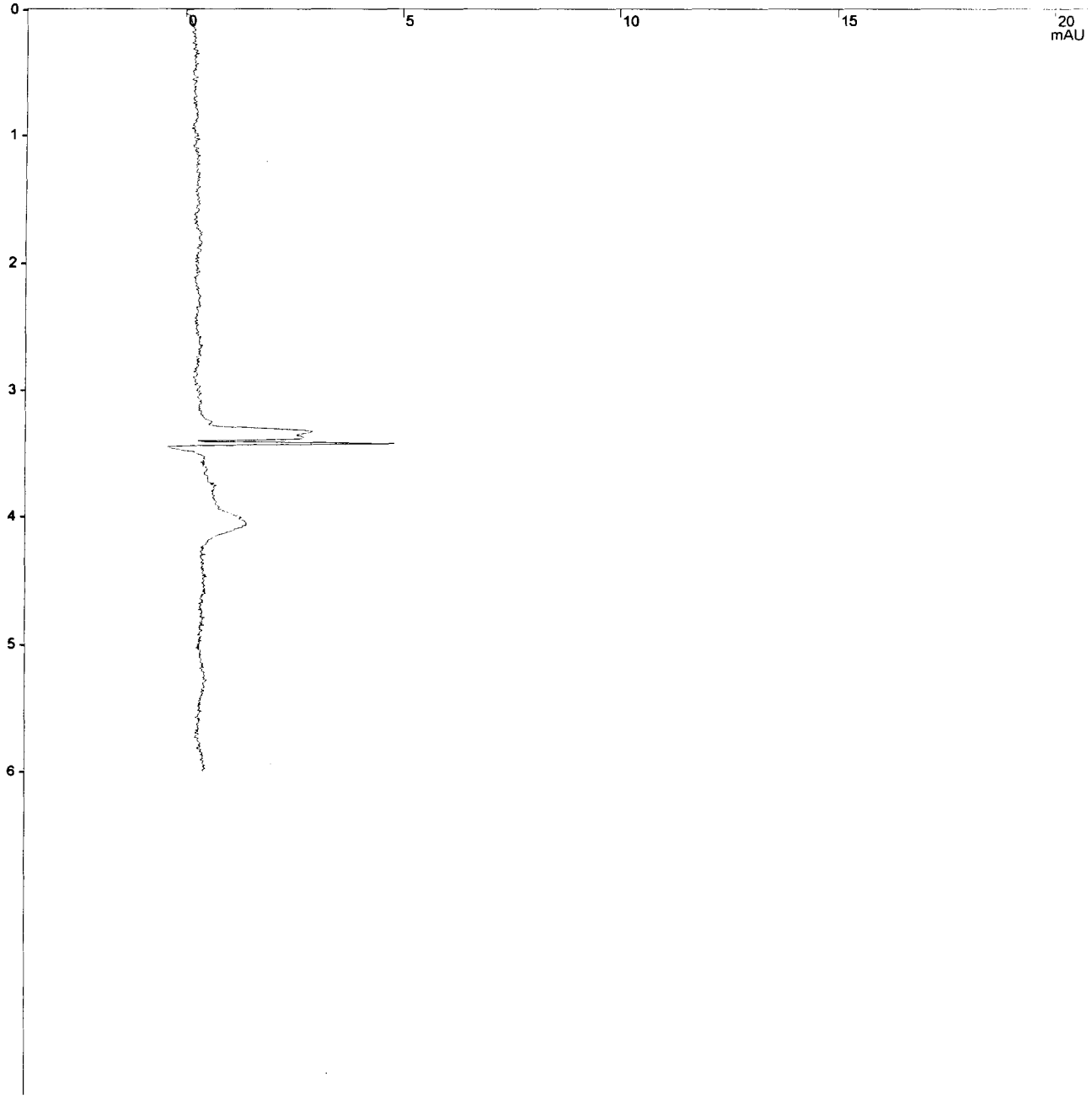
Injection Date: 3/3/2010 14:32 Calculation Date: 3/3/2010 14:41

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=14;32;55-nq-a0b250493-2.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B250493-2

Injection Date: 3/3/2010 14:32 Calculation Date: 3/3/2010 14:41

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb) ✓	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
Totals:		0.0000		0.000	0			

Total Unidentified Counts : 0 counts

Detected Peaks: 0 Rejected Peaks: 0 Identified Peaks: 0

Multiplier: 10 Divisor: 1.99 Unidentified Peak Factor: 0

Baseline Offset: 175 microAU

Noise (used): 244 microAU - monitored before this run

Vial: 39 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Data Handling: No peaks

Original Notes:

LV3R51AD, 0060207, 1.99G/10ML
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : C:\Star\data\03-2010\3-3-2010=14;48;54-nq-a0b250493-2ms.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B250493-2MS

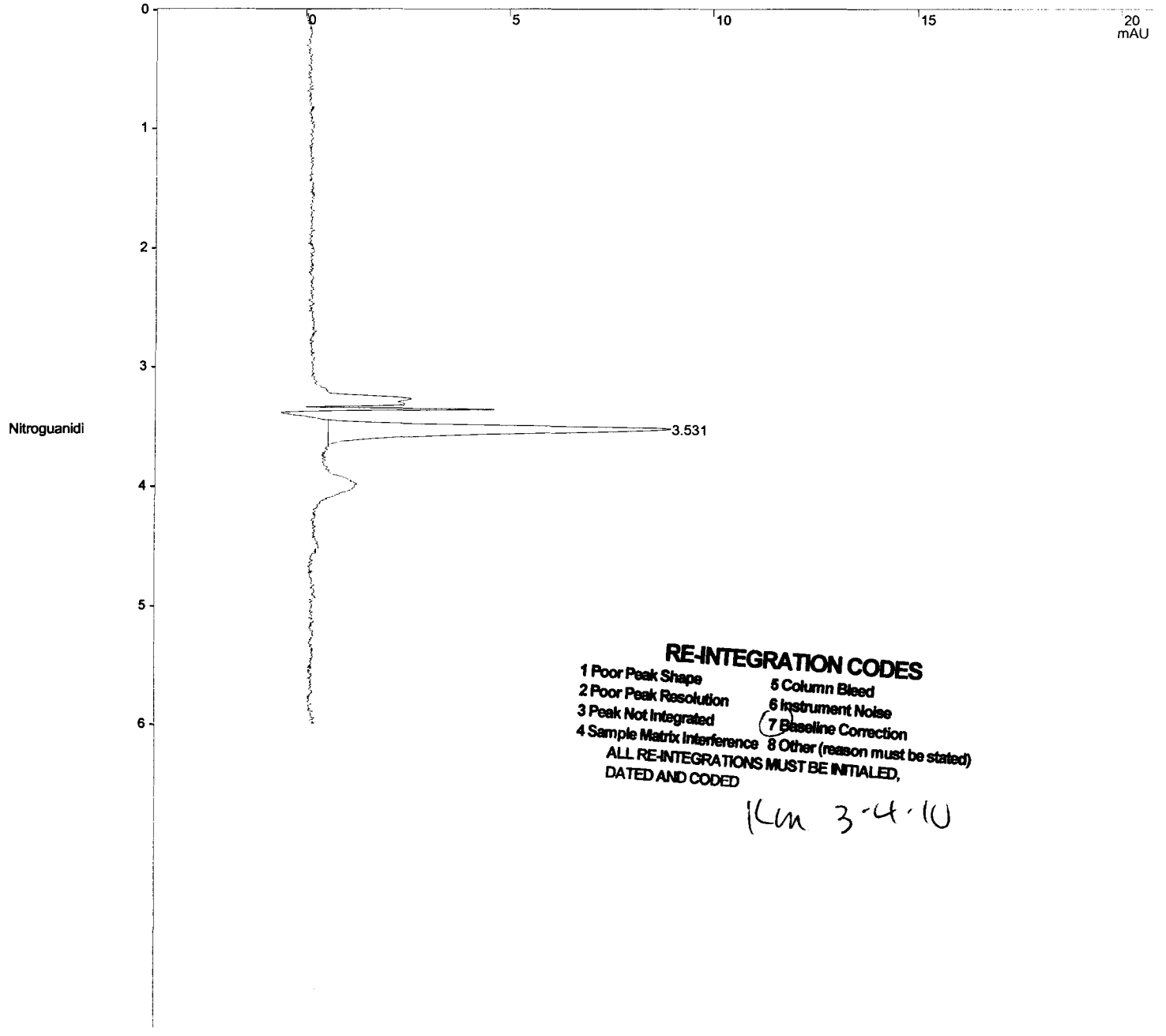
Injection Date: 3/3/2010 14:48 Calculation Date: 3/4/2010 16:05

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

ICm 3-4-10

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : C:\Star\data\03-2010\3-3-2010=14;48;54-nq-a0b250493-2ms.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B250493-2MS

Injection Date: 3/3/2010 14:48 Calculation Date: 3/4/2010 16:05

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	882.4916	3.531	-0.061	1082	BB	3.0	U
	Totals:	882.4916		-0.061	1082			

Status Codes:
U - User-defined peak endpoint(s)

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 10 Divisor: 2.02 Unidentified Peak Factor: 0

Baseline Offset: 114 microAU

Noise (used): 167 microAU - monitored before this run

Vial: 41 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

KM 3-4-10

Original Notes:

LV3R51HS, 0060207, .2.02G/10ML

Appended Notes:

LV3R51HS, 0060207, .2.02G/10ML

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Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=14;48;54-nq-a0b250493-2ms.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B250493-2MS

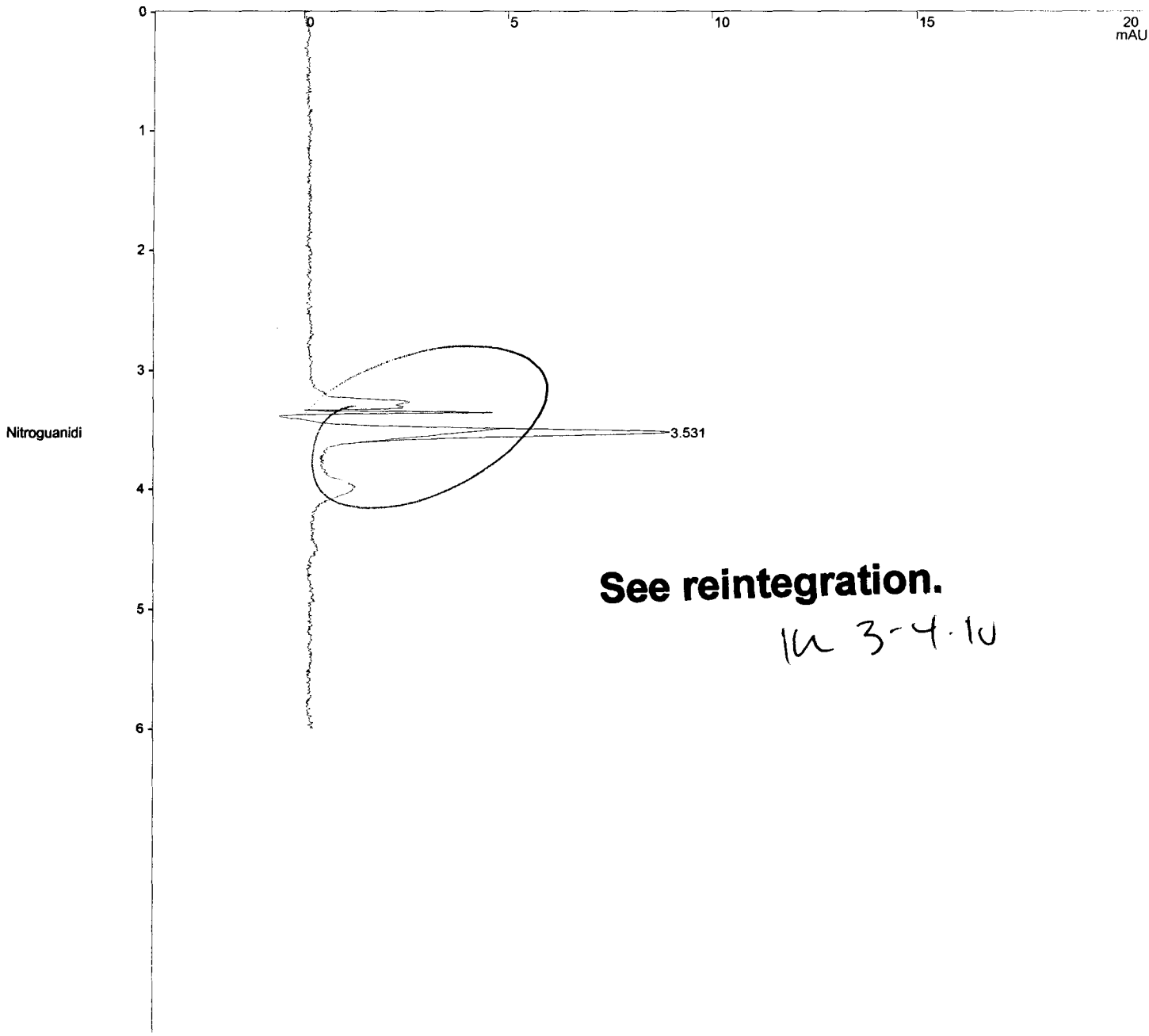
Injection Date: 3/3/2010 14:48 Calculation Date: 3/3/2010 14:57

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



See reintegration.

lm 3-4-10

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=14;48;54-nq-a0b250493-2ms.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B250493-2MS

Injection Date: 3/3/2010 14:48 Calculation Date: 3/3/2010 14:57

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	518.5127	3.531	-0.061	636	BB	3.0	
	Totals:	518.5127		-0.061	636			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 10 Divisor: 2.02 Unidentified Peak Factor: 0

Baseline Offset: 114 microAU

Noise (used): 167 microAU - monitored before this run

Vial: 41 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

See reintegration.

Original Notes:

LV3R51HS, 0060207, .2.02G/10ML
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lm 3-4-10

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : C:\Star\data\03-2010\3-3-2010=15;04;52-nq-a0b250493-2sd.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B250493-2SD

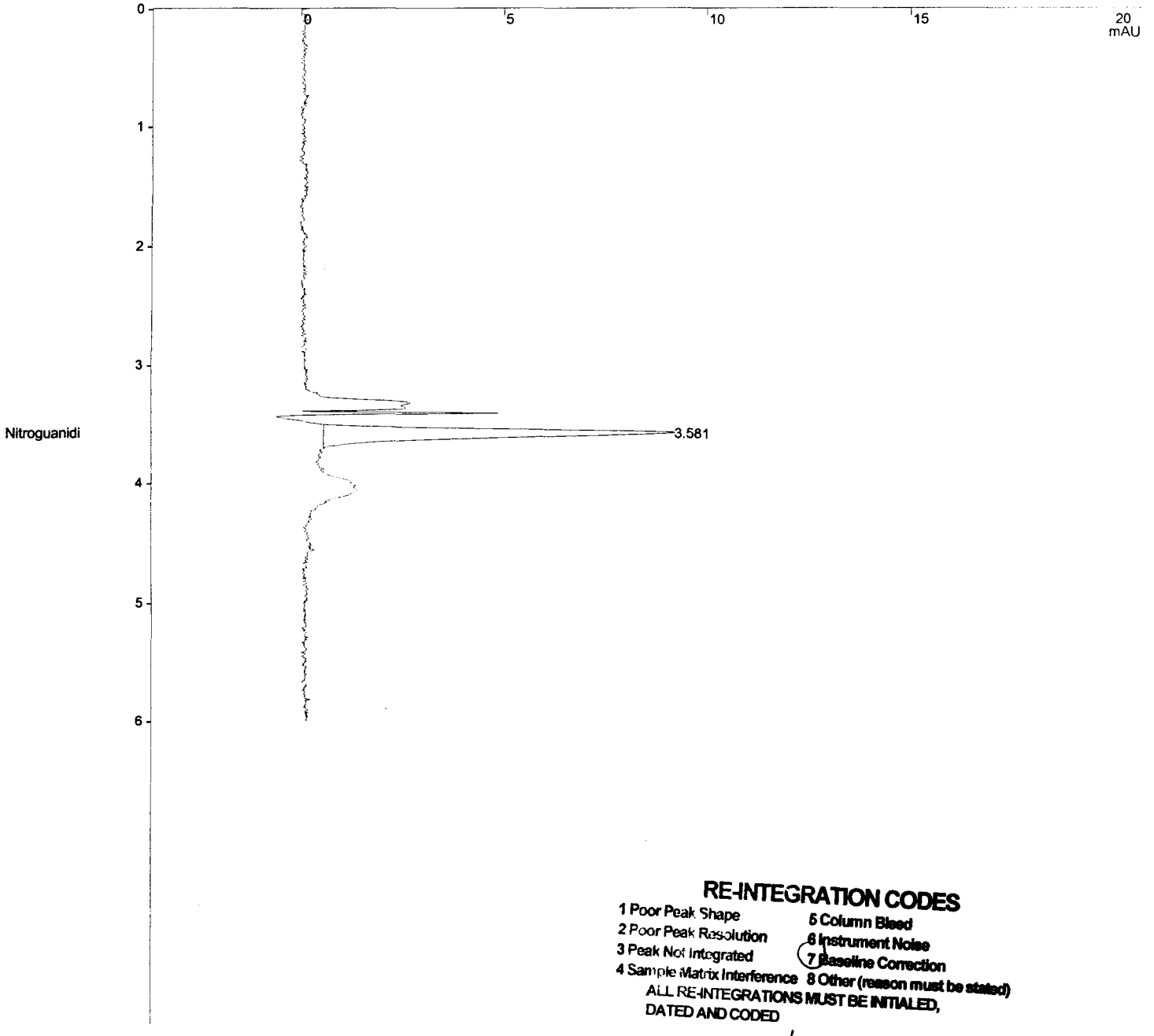
Injection Date: 3/3/2010 15:04 Calculation Date: 3/4/2010 16:08

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

lk 3.4.10

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : C:\Star\data\03-2010\3-3-2010=15;04;52-nq-a0b250493-2sd.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B250493-2SD

Injection Date: 3/3/2010 15:04 Calculation Date: 3/4/2010 16:08

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	906.5450	3.581	-0.011	1117	BB	4.7	U
	Totals:	906.5450		-0.011	1117			

Status Codes:
U - User-defined peak endpoint(s)

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 10 Divisor: 2.03 Unidentified Peak Factor: 0

Baseline Offset: 183 microAU

Noise (used): 213 microAU - monitored before this run

Vial: 43 Injection Number: 1 Full Loop Volume: 50 ul

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Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED lk 3.4.10

Original Notes:

LV3R51AJD, 0060207, .2.03G/10ML

Appended Notes:

LV3R51AJD, 0060207, .2.03G/10ML
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=15;04;52-nq-a0b250493-2sd.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B250493-2SD

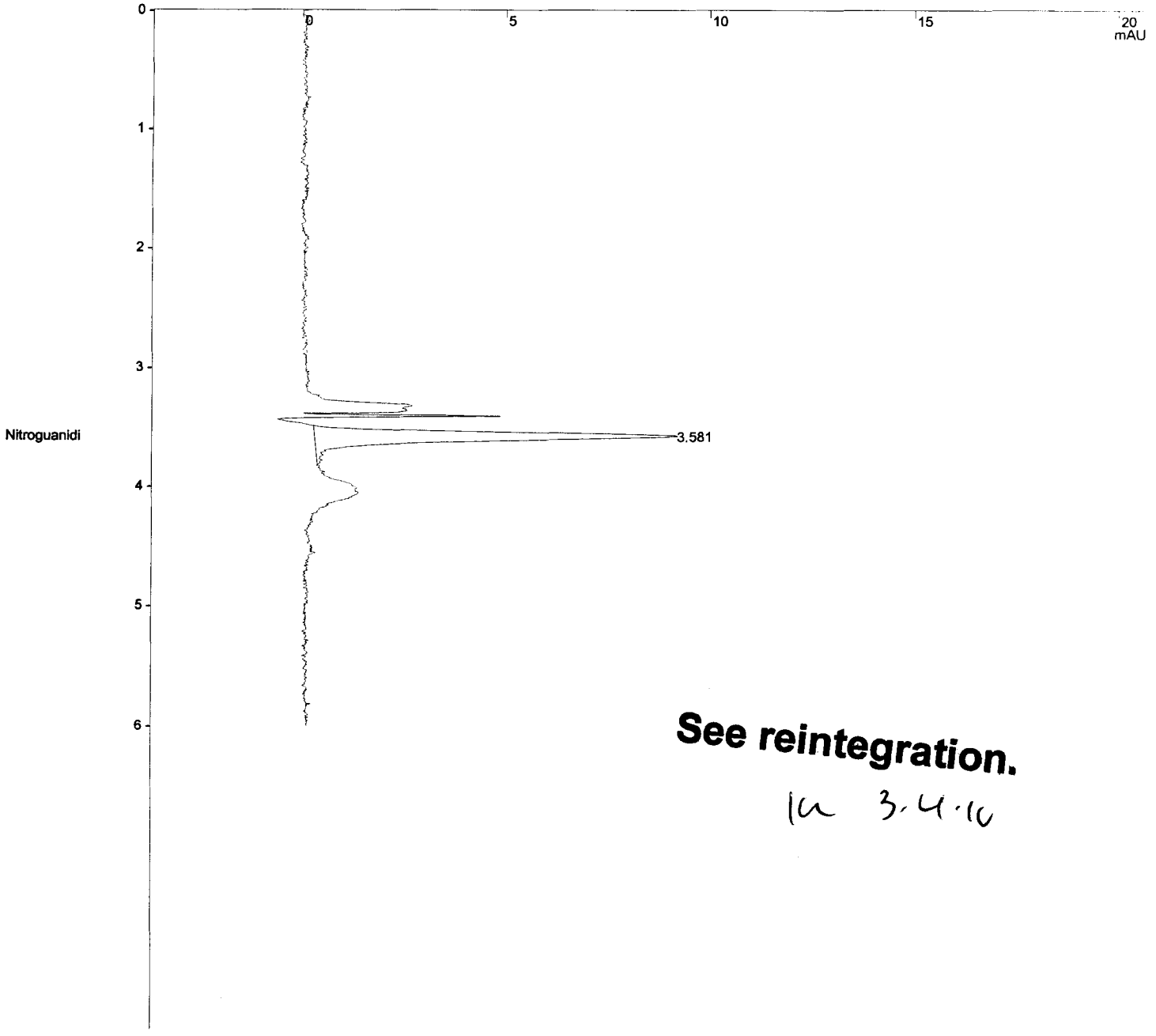
Injection Date: 3/3/2010 15:04 Calculation Date: 3/3/2010 15:13

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



See reintegration.
lm 3.4.10

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=15;04;52-nq-a0b250493-2sd.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : A0B250493-2SD

Injection Date: 3/3/2010 15:04 Calculation Date: 3/3/2010 15:13

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	933.6136	3.581	-0.011	1151	BB	4.7	
	Totals:	933.6136		-0.011	1151			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 10 Divisor: 2.03 Unidentified Peak Factor: 0

Baseline Offset: 183 microAU

Noise (used): 213 microAU - monitored before this run

Vial: 43 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

See reintegration.

LV3R51AJD, 0060207, .2.03G/10ML

LN 3-4-16

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Title : TestAmerica West Sacramento, Nitroguanidine analysis on FSA
Run File : c:\star\data\03-2010\3-3-2010=17;44;54-nq-09gcsv0430.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : 09GCSV0430

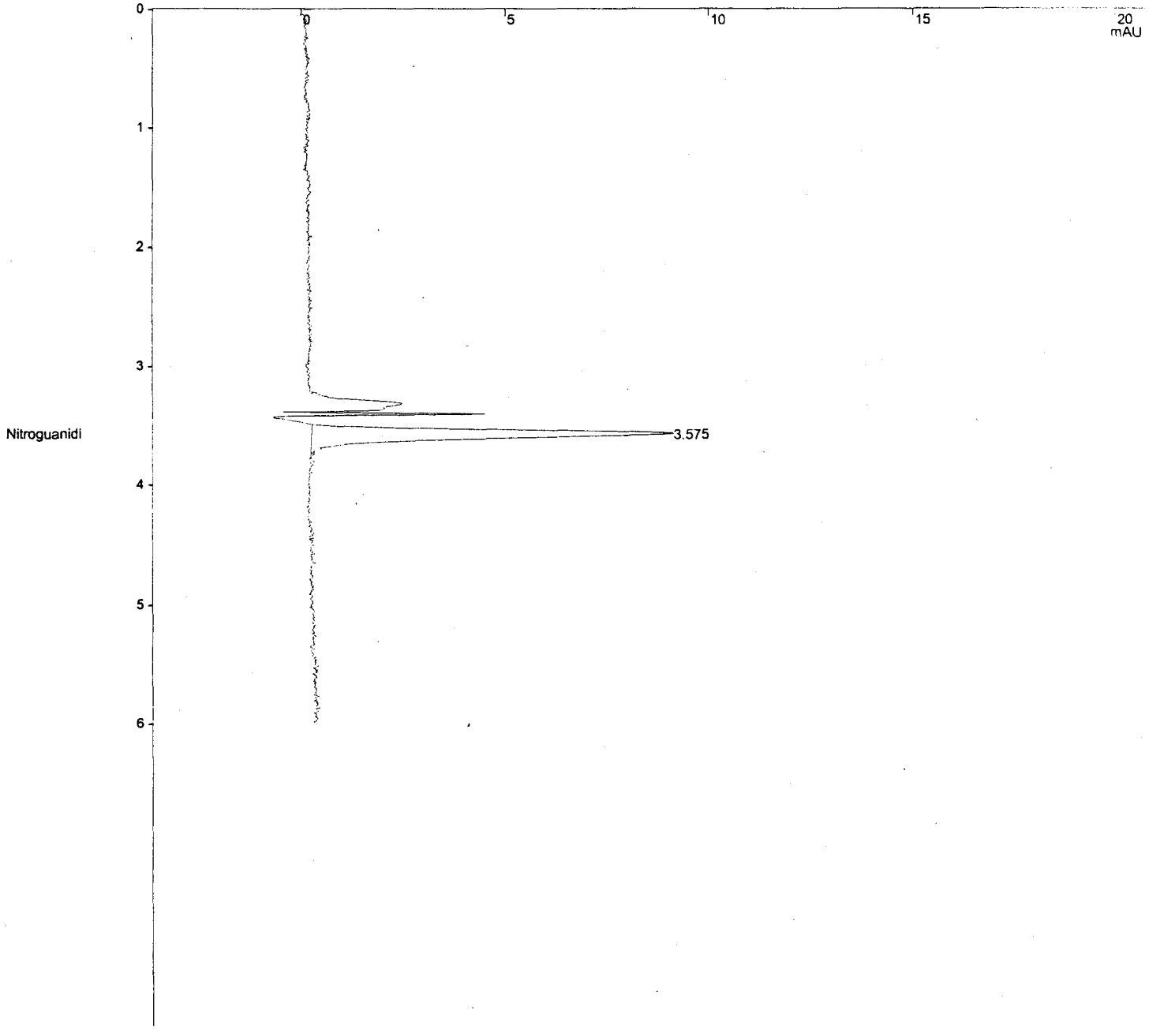
Injection Date: 3/3/2010 17:44 Calculation Date: 3/3/2010 17:53

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Verification Report

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\03-2010\3-3-2010=17;44;54-nq-09gcsv0430.run
Method File : c:\star\methods\nq_amino_10139_10032009.mth
Sample ID : 09GCSV0430

Injection Date: 3/3/2010 17:44 Calculation Date: 3/3/2010 17:53

Operator : KM
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	Dev. %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
1	Nitroguanidi	200.0000	191.2280	4.4	3.575	-0.017	1161	
	Totals:		191.2280			-0.017	1161	

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 313 microAU

Noise (used): 137 microAU - monitored before this run

Vial: 14 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

NQ STD 200 ng/mL
****

Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

10/24 0910139 ~~3648-5~~

GC/HPLC ICAL Checklist

Instrument ID: PDA-1 ICAL ID: 10032009 Method: NQ-NH2

Analytes included in curve (with dates): Nitroguanidine

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	—	✓	
2. ICAL Runlog included.	—	✓	
3. ICV included and moved to after summary.	—	✓	
4. PEM meets requirements and is included for 8081.			—
5. Alkane Marker included for 8015 TPH.			—
6. ICAL Raw Data included for all analytes.	—	✓	
B. ICAL Summary:			
1. All analytes meet %RSD or linear regression requirements.	—	✓	
2. ICAL meets requirements stated in SOP.	—	✓	
2. Any levels dropped are reviewed and appropriate.			—
3. All analytes in ICAL are in the ICAL summary.	—	✓	
4. RFs are calculated correctly. Perform Manual calculation.	—	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			—
2. All peaks correctly identified.	—	✓	
3. No analytes have saturated peaks.	—	✓	
4. RT windows set correctly (8015 TPH).		✓ 10/14/09 MW	—
5. ICV meets requirements and is run after the ICAL.	—	✓	
6. Standards used in ICAL are current.	—	✓	
7. ICAL is copied to source method.			—

Curve Valid for:	Yes	No	Criteria
Standard SOP	—		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	—		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	—		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	—		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

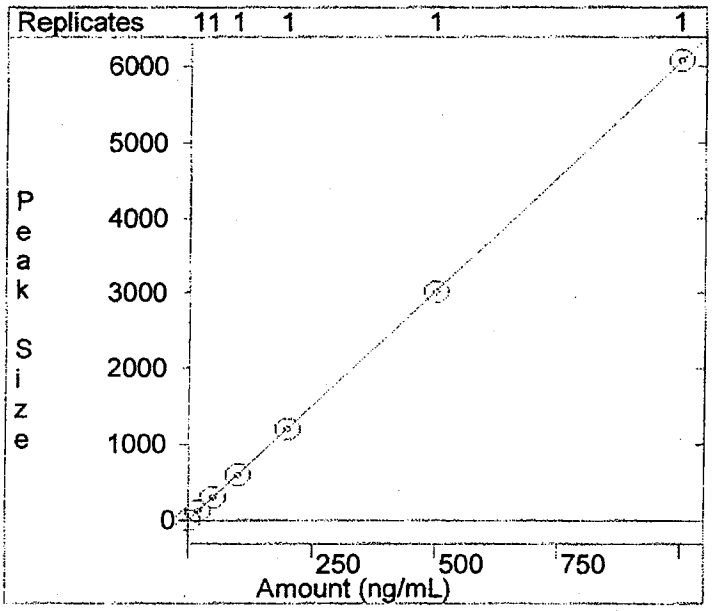
Analyst: [signature] Date: 10/14/09

Reviewer: MWay Date: 10/14/2009

Comments:

Print Date: 04 Oct 2009 01:04:05
Calibration Curves Report
File: c:\star\methods\nq_amino_10139_10032009.mth
Detector: 9065 Polychrom, Address: 4, Channel ID: 16

Nitroguanidine
External Standard Analysis
Resp. Fact. RSD: 1.704%
Curve Type: Linear
Origin: Force
Coeff. Det.(r^2): 0.999984
y = +6.0717e+000x



247

Title	:	Calibration Block Report			
Method File	:	c:\star\methods\nq_amino_10139_10032009.mth			
Data Method Time	:	10/4/2009 00:53			
Requested Curve Type	:	linear	Method Detector Type	:	9065 Polychrom
Requested Origin	:	force	Method Bus Address	:	4
Calibration Type	:	External Standard Analysis	Method Channel	:	16
Calibration Dates					
Last Injection Date	:	10/4/2009 00:45	Last Recalculation Date	:	10/4/2009 00:53

**********Star Chromatography Workstation**********Version 5.52**********

Retention Time (min)	Peak Name	Curve\ Origin	X³	X²	X	C	r²	Cal. Range	No. of Points	Edit Codes
3.688	Nitroguanidine	1 F			+6.0717e+000	+0.0000e+000	+9.9998e-001	1-6	6	

Curve Codes		Origin Codes		Edit Codes
1	linear	I	include	1 curve
2	quadratic	IG	ignore	2 origin
3	cubic	F	force	3 coefficient

Ret. Time: 3.688 min.
Peak Name: Nitroguanidine
Peak Measurement: Height
Curve\Origin: 1 F

Level	Amount	Replicate No.	Response	Avg. Response	Std. Dev.
1	20.000000	1	126	126.0	#
2	50.000000	1	305	304.9	#
3	100.000000	1	604	603.6	#
4	200.000000	1	1205	1204.8	#
5	500.000000	1	3019	3018.8	#
6	1000.000000	1	6082	6082.3	#

$\frac{604}{100} = 6.04$

= Too few points to calculate.

Peak Name	Level	Rep.	Injection Date Time	Run Files
Nitroguanidine	1	1	10/3/2009 23:08	c:\star\data\10.2009\nq-10-3-2009=23;08;05-09gcsv0~~100~~.run 427
	2	1	10/3/2009 23:27	c:\star\data\10.2009\nq-10-3-2009=23;27;33-09gcsv0~~110~~.run 428
	3	1	10/3/2009 23:47	c:\star\data\10.2009\nq-10-3-2009=23;47;03-09gcsv0~~111~~.run 429
	4	1	10/4/2009 00:06	c:\star\data\10.2009\nq-10-4-2009=00;06;31-09gcsv0~~112~~.run 430
	5	1	10/4/2009 00:26	c:\star\data\10.2009\nq-10-4-2009=00;26;01-09gcsv0~~113~~.run 431
	6	1	10/4/2009 00:45	c:\star\data\10.2009\nq-10-4-2009=00;45;32-09gcsv0~~114~~.run 432

10/23/09

North Canton

****

Varian Star Workstation - RecalcList Tue Oct 06 13:19:13 2009

RecalcList: C:\Star\Sample list\NQ-10.03.2009B.RCL

Created: Sat Oct 03 19:41:38 2009
Modified: Sun Oct 04 02:48:41 2009

****

NQ Analysis 3 October 2009
WS-LC-0010

Line	Sample Type	Sample Name	Data File	In
1	Verification	Primer WS-LC-0010	nq-10-3-2009=19;53;16-primer ws-lc-0010.run	
2	Verification	Primer WS-LC-0010	nq-10-3-2009=20;12;44-primer ws-lc-0010.run	
3	Verification	Primer WS-LC-0010	nq-10-3-2009=20;32;11-primer ws-lc-0010.run	
4	Verification	Primer WS-LC-0010	nq-10-3-2009=20;51;40-primer ws-lc-0010.run	
5	Verification	Primer WS-LC-0010	nq-10-3-2009=21;11;10-primer ws-lc-0010.run	
6	Verification	Primer WS-LC-0010	nq-10-3-2009=21;30;38-primer ws-lc-0010.run	
7	Verification	Primer WS-LC-0010	nq-10-3-2009=21;50;06-primer ws-lc-0010.run	
8	Verification	Primer WS-LC-0010	nq-10-3-2009=22;09;32-primer ws-lc-0010.run	
9	Verification	Primer WS-LC-0010	nq-10-3-2009=22;29;03-primer ws-lc-0010.run	
10	Analysis	Blank	nq-10-3-2009=22;48;34-blank.run	
11	New Calib Block	(A) 10/22/09		
12	Calibration	09GCSV0~~109~~ 427 (A)	nq-10-3-2009=23;08;05-09gcsv0109.run	
13	Calibration	09GCSV0~~110~~ 428 (A)	nq-10-3-2009=23;27;33-09gcsv0110.run	
14	Calibration	09GCSV0~~111~~ 429 (A)	nq-10-3-2009=23;47;03-09gcsv0111.run	
15	Calibration	09GCSV0~~112~~ 430 (A)	nq-10-4-2009=00;06;31-09gcsv0112.run	
16	Calibration	09GCSV0~~113~~ 431 (A)	nq-10-4-2009=00;26;01-09gcsv0113.run	
17	Calibration	09GCSV0~~114~~ 432 (A)	nq-10-4-2009=00;45;32-09gcsv0114.run	
18	Print Calib			
19	Verification	09GCSV0380 ICV	nq-10-4-2009=01;05;10-09gcsv0380 icv.run	
20	Analysis	09GCSV0~~108~~ 426 2XMDL (A)	nq-10-4-2009=01;24;38-09gcsv0108 2xmdl.run	
21	Analysis	Blank	nq-10-4-2009=01;44;11-blank.run	
22	Verification	08GCSV0~~112~~ 430 (A)	nq-10-4-2009=02;03;41-08gcsv0112.run	
23	Analysis	BLANK	nq-10-4-2009=02;38;29-blank.run	

page 6

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=01;05;10-09gcsv0380 icv.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0380 ICV

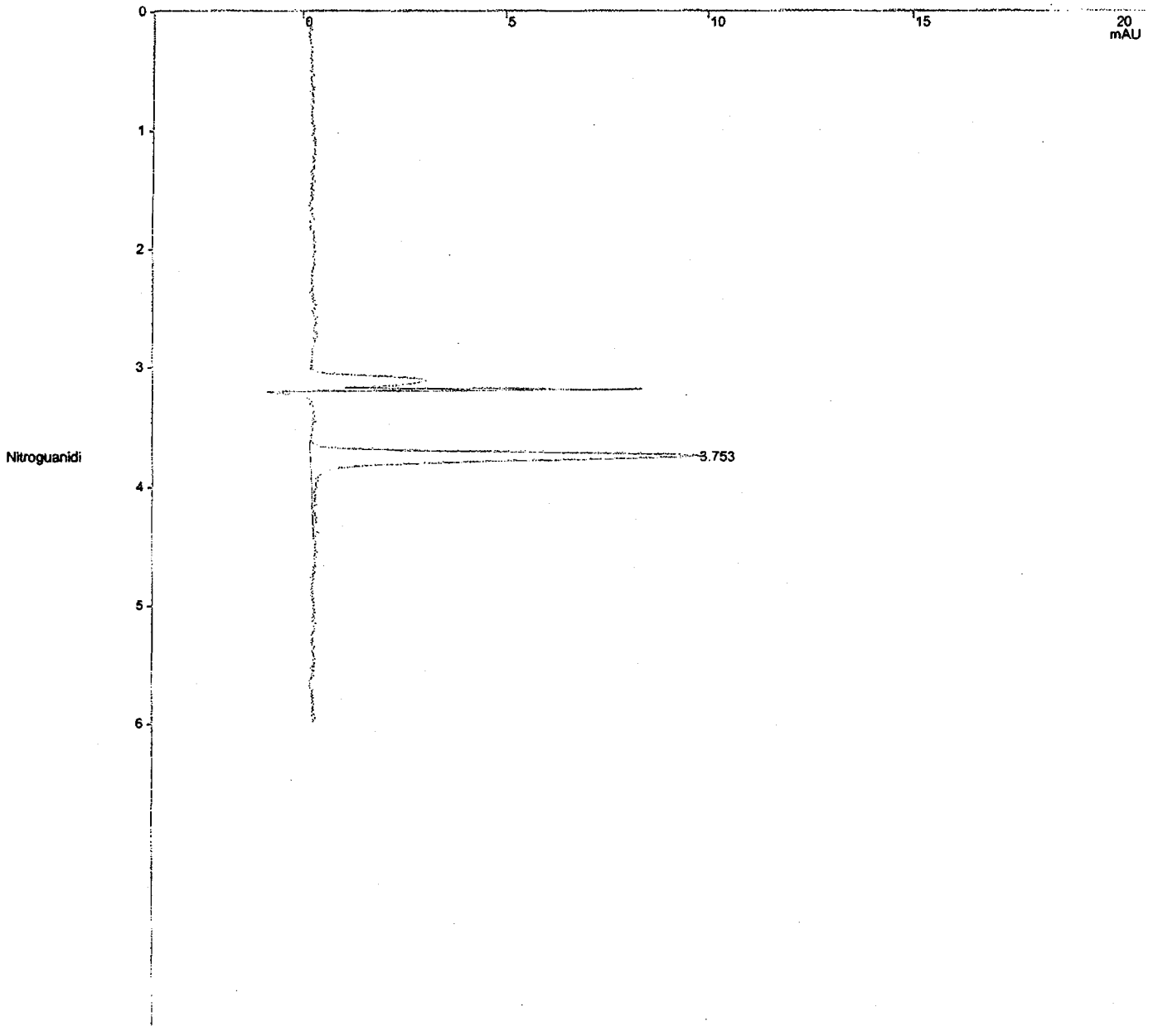
Injection Date: 10/4/2009 01:05 Calculation Date: 10/4/2009 01:13

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Verification Report

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=01;05;10-09gcsv0380 icv.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0380 ICV

Injection Date: 10/4/2009 01:05 Calculation Date: 10/4/2009 01:13

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Verification
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4
Tolerance : 15.0%

Peak No.	Peak Name	Expected Result (ppb)	Calculated Result (ppb)	Dev. %	Ret. Time (min)	Time Offset (min)	Height (counts)	Status Codes
1	Nitroguanidi	200.0000	206.5399	3.3	3.753	0.065	1254	
	Totals:		206.5399			0.065	1254	

Total Unidentified Counts : 0 counts

Detected Peaks: 2 Rejected Peaks: 1 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 84 microAU

Noise (used): 167 microAU - monitored before this run

Vial: 4 Injection Number: 1 Full Loop Volume: 50 ul

ICV passes criteria ± 15%
fhk 10/4/09

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA , absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250 x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an d 09GCSV0380 (ICV).

Original Notes:

09GCSV0380, NQ Std at 200ng/mL; Second Source Standard.

****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=22;48;34-blank.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : Blank

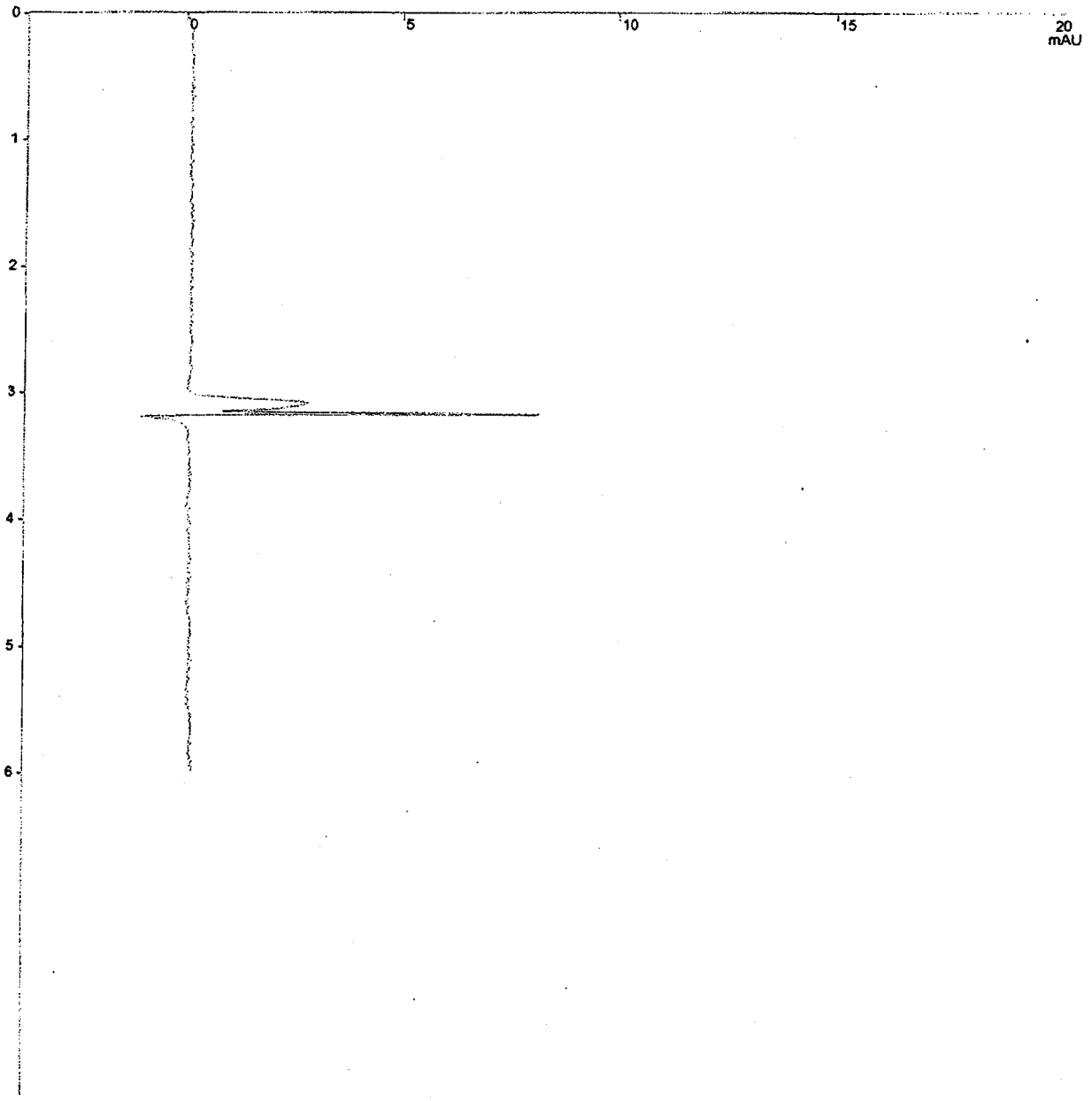
Injection Date: 10/3/2009 22:48 Calculation Date: 10/3/2009 22:56

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Print Date: Sat Oct 03 22:56:50 2009 Page 1 of 1

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=22;48;34-blank.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : Blank

Injection Date: 10/3/2009 22:48 Calculation Date: 10/3/2009 22:56

Operator : fhk Detector Type: 9065
Workstation: Bus Address : 4
Instrument : Varian Star #1 Sample Rate : 2.71 Hz
Channel : 16 = 263 nm Run Time : 7.999 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
Totals:		0.0000		0.000	0			

Total Unidentified Counts : 0 counts

Detected Peaks: 0 Rejected Peaks: 0 Identified Peaks: 0

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 31 microAU

Noise (used): 144 microAU - monitored before this run

Vial: 1 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Data Handling: No peaks

Original Notes:

Blank
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;08;05-09gcsv0109.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~109~~427 10/22/09

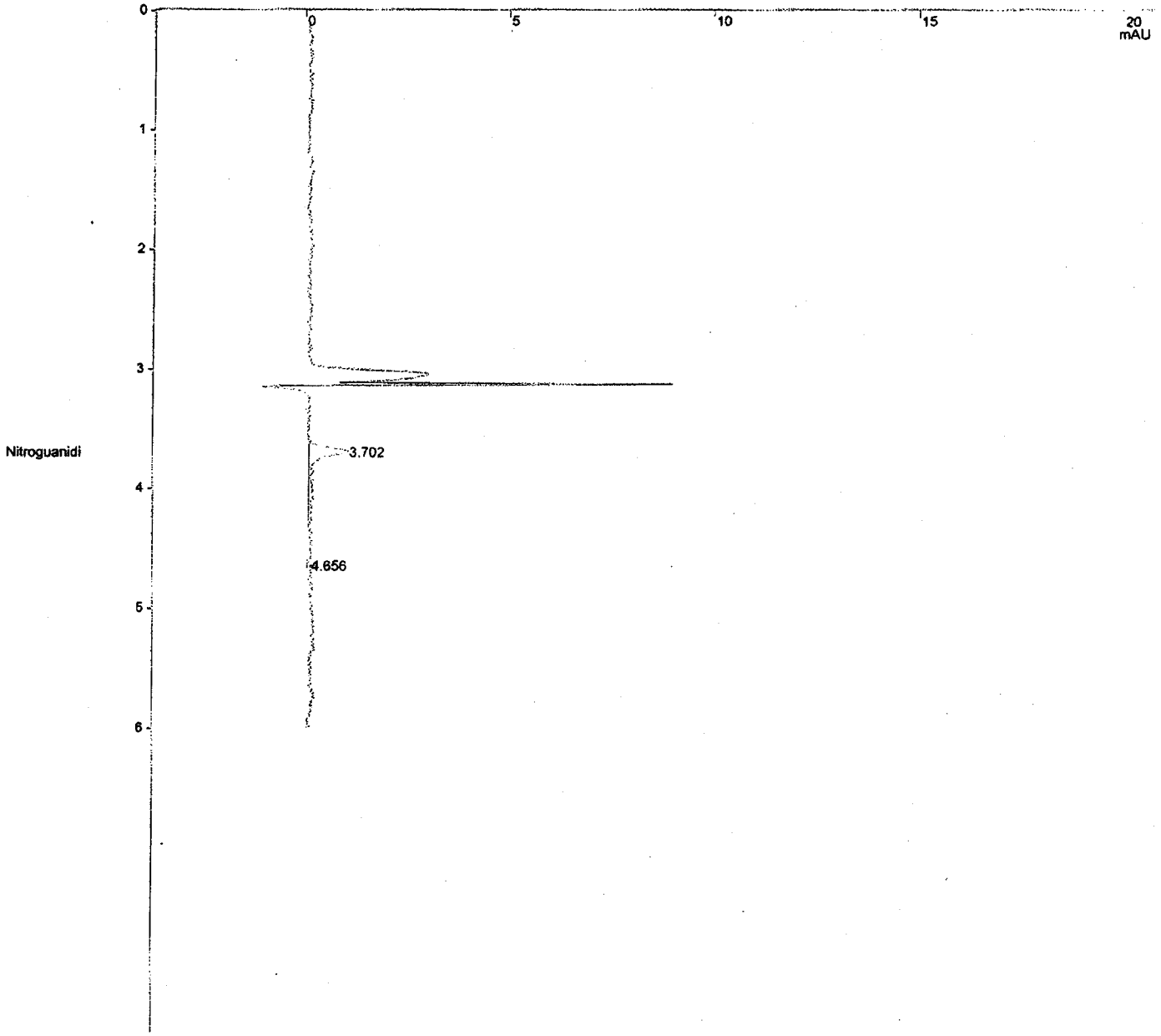
Injection Date: 10/3/2009 23:08 Calculation Date: 10/3/2009 23:16

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Print Date: Sat Oct 03 23:16:21 2009 Page 1 of 1

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;08;05-09gcsv0109.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~109~~27 10/22/09

Injection Date: 10/3/2009 23:08 Calculation Date: 10/3/2009 23:16

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 1

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.702	-0.065	126	BB	4.6	
2		4.656	0.000	17	BB	1.6	
	Totals:		-0.065	143			

Total Unidentified Counts : 17 counts

Detected Peaks: 2 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 130 microAU

Noise (used): 152 microAU - monitored before this run

Vial: 8 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0109, NQ Std at 20ng/mL.
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;27;33-09gcsv0110.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~110~~428 10/22/09

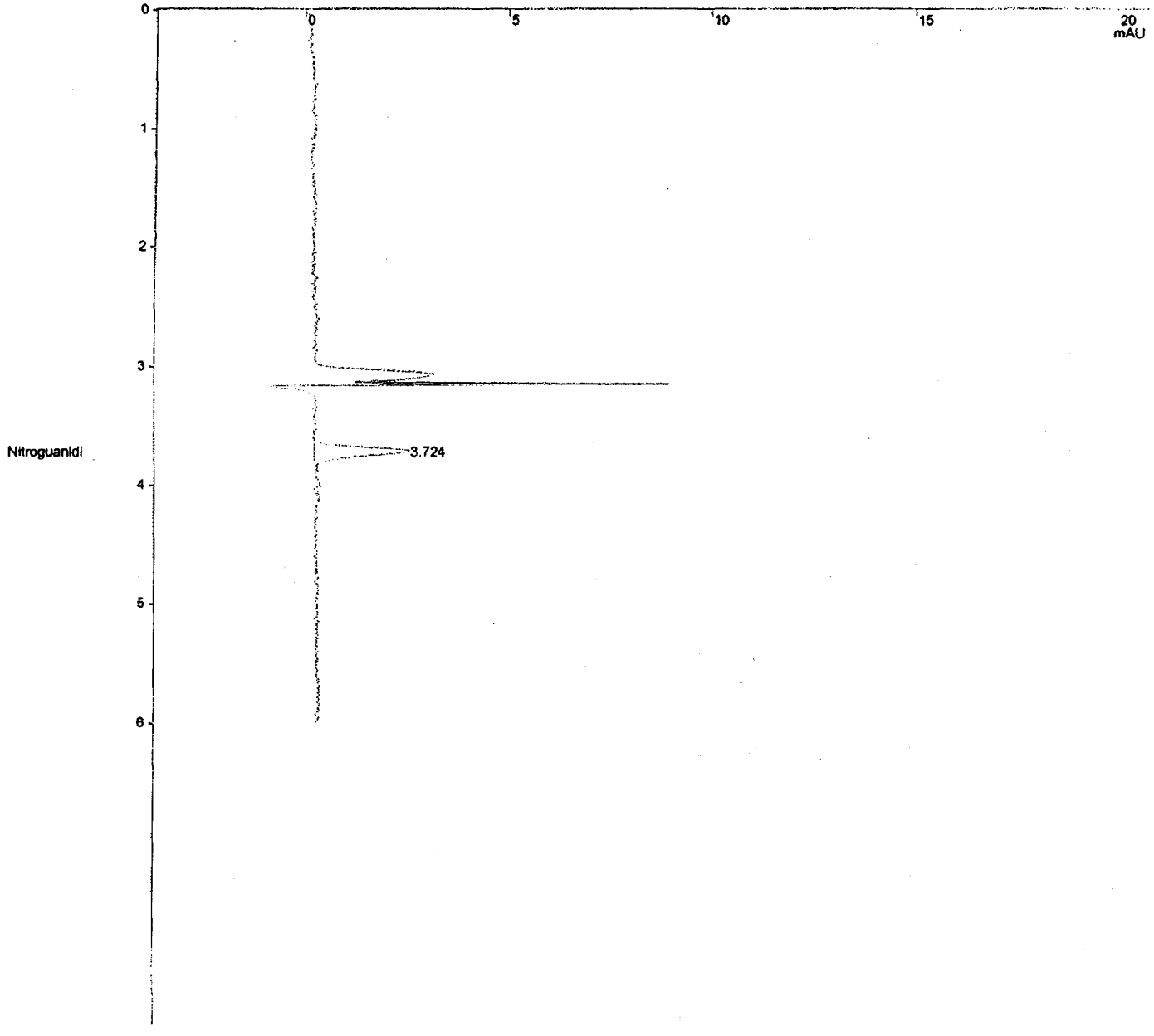
Injection Date: 10/3/2009 23:27 Calculation Date: 10/3/2009 23:35

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;27;33-09gcsv0110.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~110~~ 4-8 gmt 10/12/09

Injection Date: 10/3/2009 23:27 Calculation Date: 10/3/2009 23:35

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 2

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.724	0.022	305	BB	4.7	
	Totals:		0.022	305			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 38 microAU

Noise (used): 152 microAU - monitored before this run

Vial: 10 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0110, NQ Std at 50ng/mL.
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;47;03-09gcsv0111.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~111~~ 2/29 2nd 10/22/09

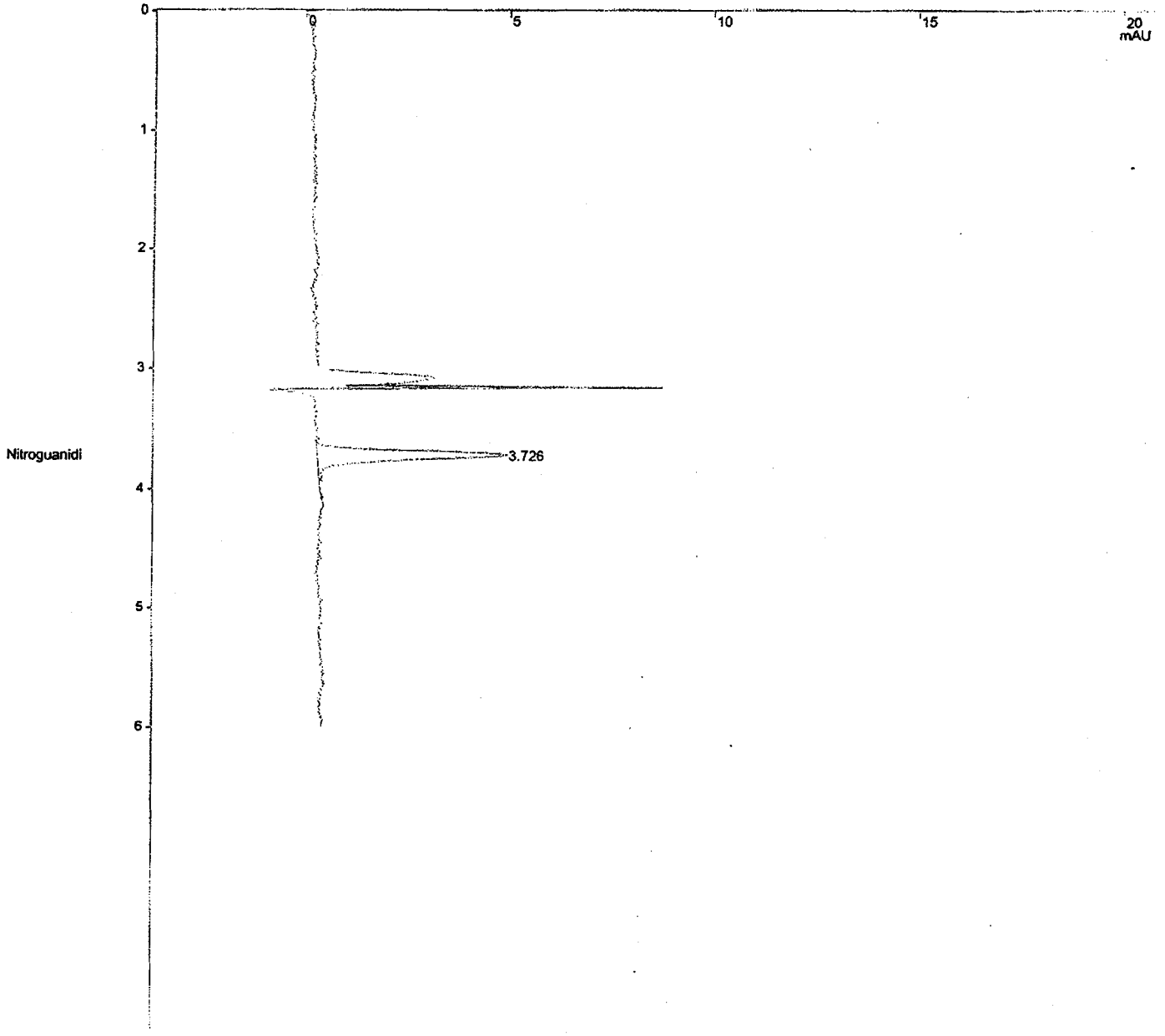
Injection Date: 10/3/2009 23:47 Calculation Date: 10/3/2009 23:55

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-3-2009=23;47;03-09gcsv0111.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~111~~429 10/22/09

Injection Date: 10/3/2009 23:47 Calculation Date: 10/3/2009 23:55

Operator : fhk Detector Type: 9065
Workstation: Bus Address : 4
Instrument : Varian Star #1 Sample Rate : 2.71 Hz
Channel : 16 = 263 nm Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 3

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.726	0.003	604	BB	4.6	
	Totals:		0.003	604			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 267 microAU

Noise (used): 144 microAU - monitored before this run

Vial: 12 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0111, NQ Std at 100ng/mL.
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=00;06;31-09gcsv0112.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~112~~430 fhk 10/22/09

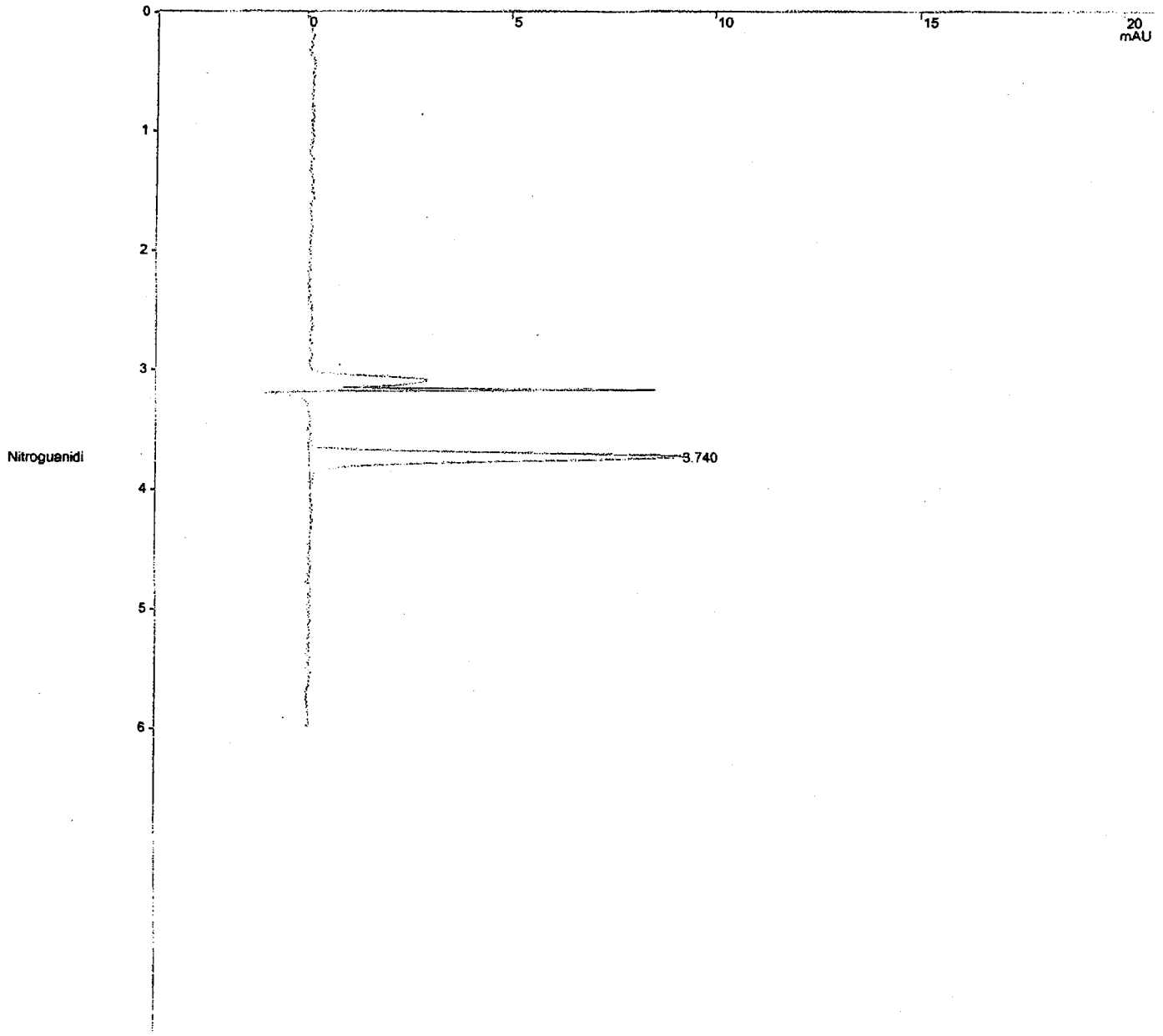
Injection Date: 10/4/2009 00:06 Calculation Date: 10/4/2009 00:14

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=00;06;31-09gcsv0112.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~112~~430 fhk 10/22/09

Injection Date: 10/4/2009 00:06 Calculation Date: 10/4/2009 00:14

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 4

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.740	0.014	1205	BB	4.6	
	Totals:		0.014	1205			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 160 microAU

Noise (used): 129 microAU - monitored before this run

Vial: 14 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
****

TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0112, NQ Std at 200ng/mL.
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=00;26;01-09gcsv0113.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~113~~43 | 10/22/09

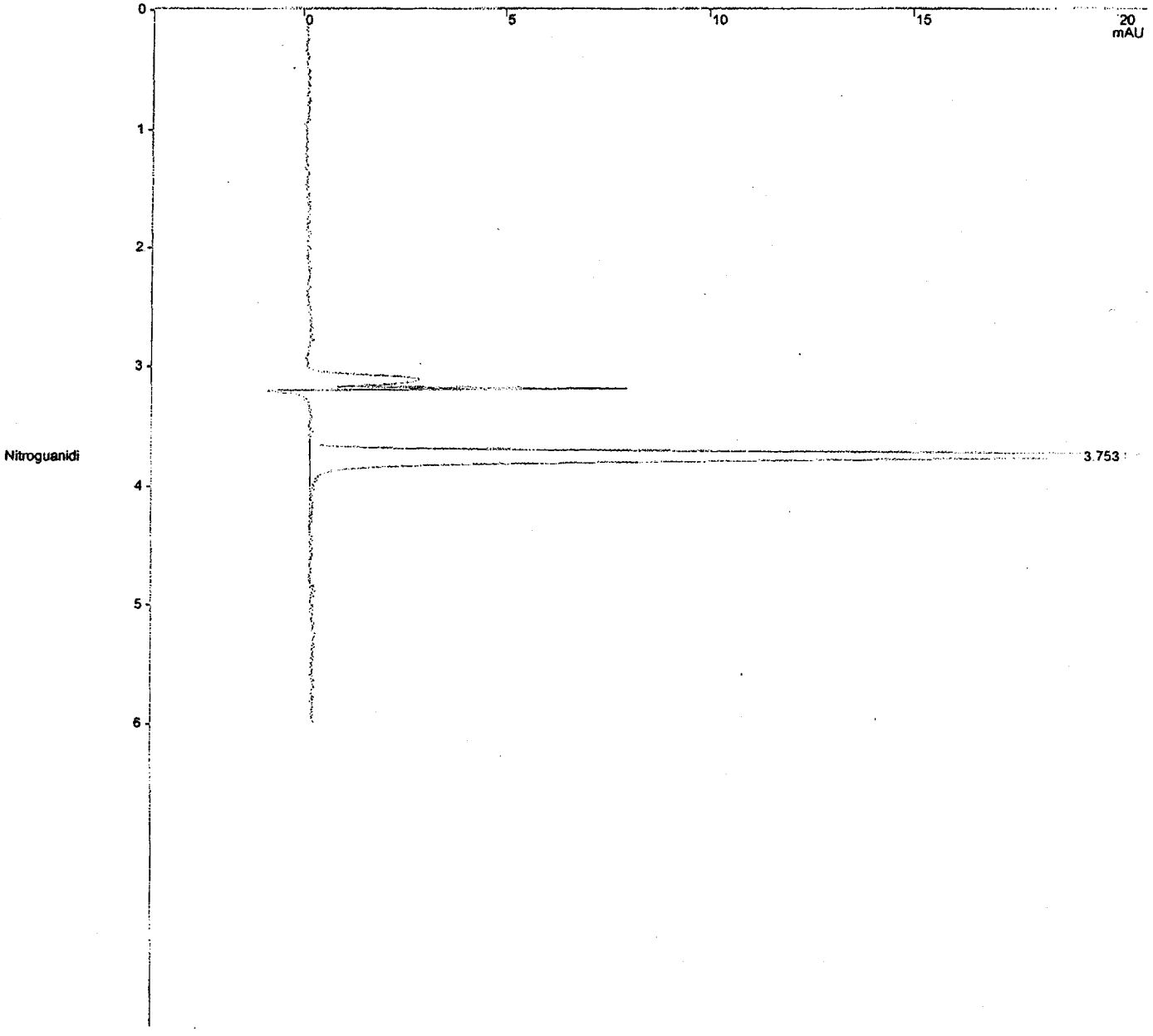
Injection Date: 10/4/2009 00:26 Calculation Date: 10/4/2009 00:34

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Print Date: Sun Oct 04 00:34:12 2009 Page 1 of 1

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009-00;26;01-09gcsv0113.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~113~~ 431 JMC 10/22/09

Injection Date: 10/4/2009 00:26 Calculation Date: 10/4/2009 00:34

Operator : fhk Detector Type: 9065
Workstation: Bus Address : 4
Instrument : Varian Star #1 Sample Rate : 2.71 Hz
Channel : 16 = 263 nm Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 5

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.753	0.013	3019	BB	4.6	
	Totals:		0.013	3019			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 137 microAU

Noise (used): 183 microAU - monitored before this run

Vial: 16 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0113, NQ Std at 500ng/mL.
****

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=00;45;32-09gcsv0114.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~114~~32 FHK 10/22/09

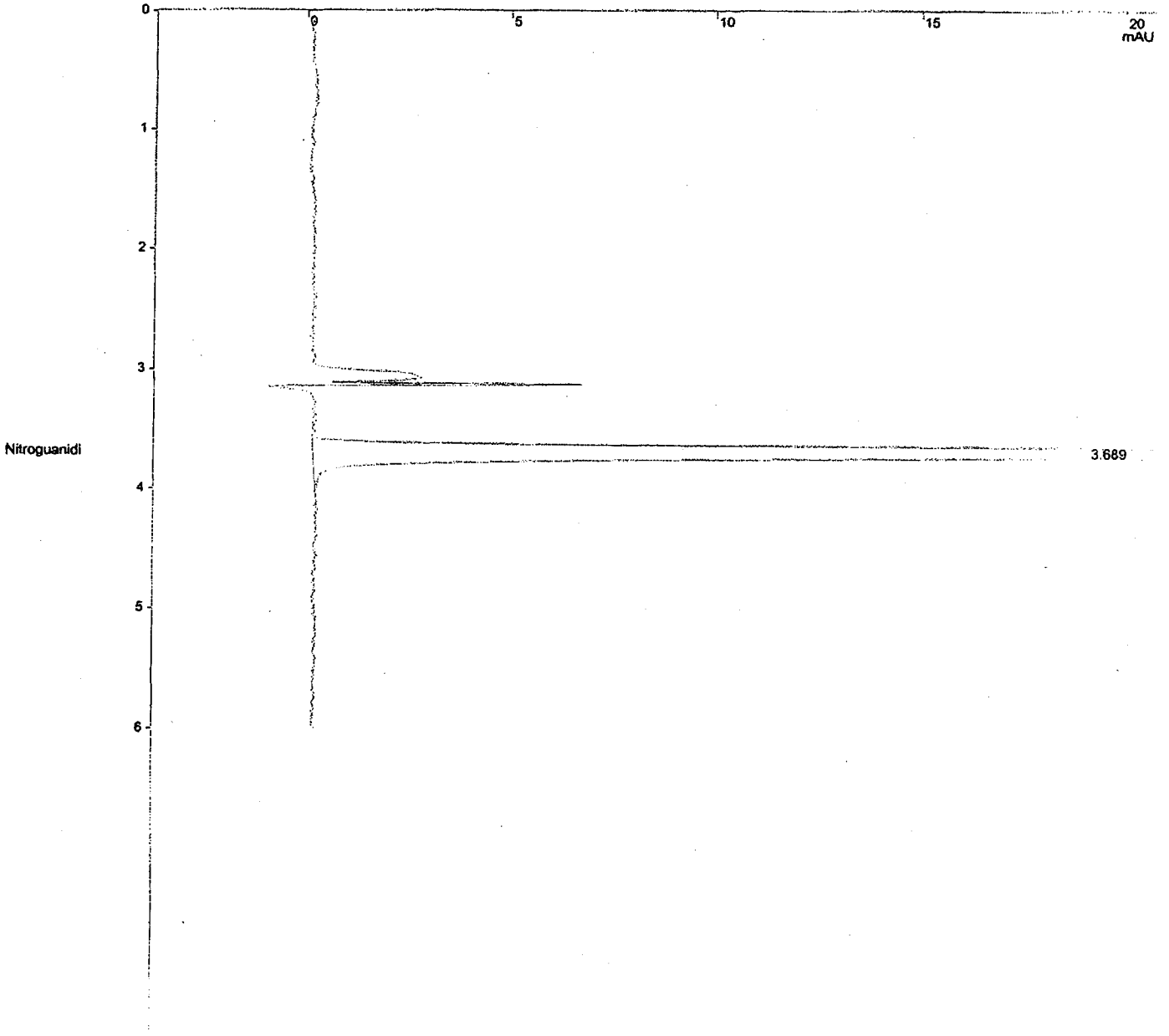
Injection Date: 10/4/2009 00:45 Calculation Date: 10/4/2009 00:53

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm

Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=00;45;32-09gcsv0114.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~114~~432 fhk 10/22/09

Injection Date: 10/4/2009 00:45 Calculation Date: 10/4/2009 00:53

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.987 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Calibration
Peak Measurement: Peak Height
Calculation Type: External Standard
Level : 6

Peak No.	Peak Name	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	3.689	-0.063	6082	BB	4.7	
	Totals:		-0.063	6082			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 122 microAU

Noise (used): 190 microAU - monitored before this run

Vial: 18 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA , absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, installed 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250 x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 and 09GCSV0380 (ICV).

Original Notes:

09GCSV0114, NQ Std at 1000ng/mL.
****

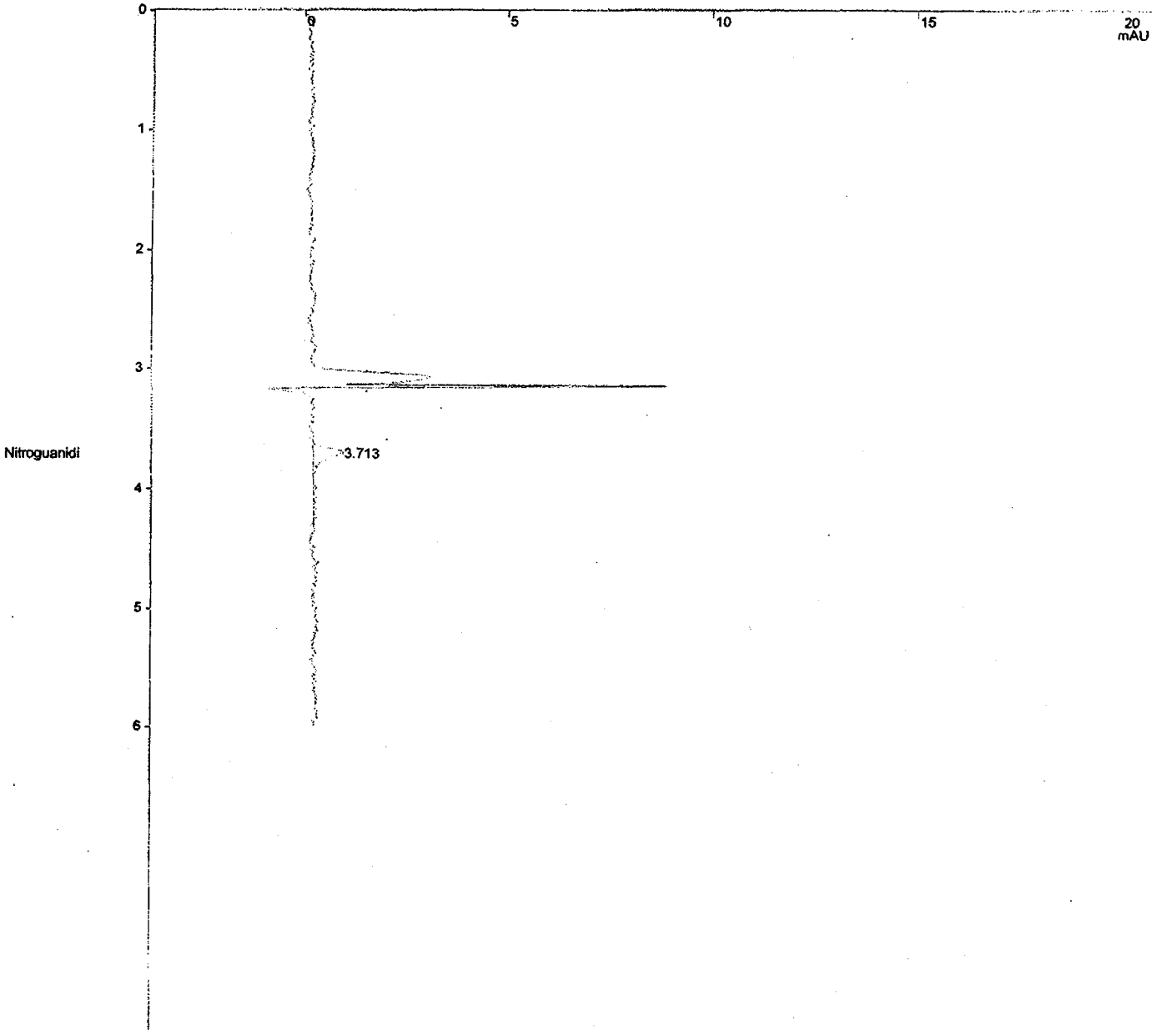
Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009=01;24;38-09gcsv0108 2xmdl.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0~~108~~ 426 2XMDL fhk 10/22/09

Injection Date: 10/4/2009 01:24 Calculation Date: 10/4/2009 01:32

Operator : fhk
Workstation:
Instrument : Varian Star #1
Channel : 16 = 263 nm
Detector Type: 9065
Bus Address : 4
Sample Rate : 2.71 Hz
Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Chart Speed = 2.00 cm/min Attenuation = 20 Zero Offset = 15%
Start Time = 0.000 min End Time = 6.000 min Min / Tick = 1.00



Print Date: Sun Oct 04 01:32:49 2009 Page 1 of 1

Title : TestAmerica West Sacramento, Nitroguanidine Analysis on PDA
Run File : c:\star\data\10.2009\nq-10-4-2009-01;24;38-09gcsv0108 2xmdl.run
Method File : C:\Star\Methods\NQ_Amino_10139_10032009.mth
Sample ID : 09GCSV0108 2XMDL 426 10/2/09

Injection Date: 10/4/2009 01:24 Calculation Date: 10/4/2009 01:32

Operator : fhk Detector Type: 9065
Workstation: Bus Address : 4
Instrument : Varian Star #1 Sample Rate : 2.71 Hz
Channel : 16 = 263 nm Run Time : 7.993 min

** Star Chromatography Workstation Version 5.52 ** 00123-5E00-E5E-03F9 **

Run Mode : Analysis
Peak Measurement: Peak Height
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppb)	Ret. Time (min)	Time Offset (min)	Height (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Nitroguanidi	16.2289	3.713	0.025	99	BB	5.3	
	Totals:	16.2289		0.025	99			

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 1

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 92 microAU

Noise (used): 221 microAU - monitored before this run

Vial: 6 Injection Number: 1 Full Loop Volume: 50 ul

****
Notes
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TestAmerica West Sacramento, SAC-LC-0010, Nitroguanidine Analysis on PDA
, absorbance at 263nm.

O2N-NH-C(=NH)-NH2

Primary column = Phenomenex Luna Amino s/n=411655-2, 250x4.6mm, 5um, ins
talled 01/18/08 with Security NH2 Guard.
Column Temperature = 15 degrees C.
Injection volume = 50 uL.

New Syringe Valve 1/10/2008
Solvent Program updated 1/10/2008; Isocratic at 90:10 Water:Acetonitrile
and wash with 100% AcCN.
New column installed 11/21/2008; Phenomenex Luna Amino s/n=453648-5, 250
x4.6mm, 5 um.
New Calibration Curve run on 11/21/2008 using standards 08GCSV0336-341.
New Lamp installed 1/29/2009.
New Calibration Curve run on 1/29/2009 using standards 08GCSV336-241.
New Column installed ZORBAX NH2 s/n=UST0010139 4.6 x 250 mm, 5um
New Calibration Curve rn on 10/3/2009 using standards 09GCSC0108-0114 an
d 09GCSV0380 (ICV).

Original Notes:

09GCSV0108, NQ Std at 15ng/mL; 2 times MDL.
****

Sample Extraction/Preparation Log Copies and Checklists

BW

TestAmerica West Sacramento
ESC-Extraction Master Sheet

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Holding Time Due: 3/10/10 Project Due: 3/5/10
BATCH #: 00060207 Initiated By: TP Date: 3/1/10
Test #: NQ-5 Extn Comp'd By: TP Date: 3/2/10

QC Code	Lot ID	Sample #	Sample Size g / Initial Mass	Final Volume mL / Final Mass	Chlorine checked
	MB		2.00	10.00	TP 3/1/10
C	LCS		2.00	10.00	
	AOB250493	02	1.99	10.00	
S	↓	02MS	2.02	10.00	
D	↓	02MSD	2.03	10.00	
	TP ~~2~~ 3/1/10				

SOP No.: WS-LC-0010

EXTRACTION COMMENTS:
Multi-incremental Sampling/Date: N/A

Dried/Date 2/26/10 Ground//Date 3/1/10
Sonicated - Start: 3/1/10 @ 11:00 End: 5:00 Date: 3/2/10

Cleanup by/Date TP 3/2/10 Dilution by/Date N/A

Final Vialling /Date TP 3/2/10

Millipore Water Dispensed / Date N/A

SPE Cartridge: Waters Lot # N/A

QC Codes	Standard Information				
	Volume	STD ID	Exp. Date	STD Name/Conc.	(ppm)/ppb
C,S,D	40uL	09GCSV0425	4/16/10	NQ-Spike 50ug/mL	1.0

Spiked By / Date: TP 3/1/10 Witnessed By / Date: HO 3-1-10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD, FB = Filter Blank

C:\DOCUMENTS AND SETTINGS\BAYNESJ\LOCAL SETTINGS\TEMPORARY INTERNET FILES\OLK227\QA-413 ESC EXTRACTION (2).DOCQA-413 NE

North Canton

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/02/10
Time: 8:24:59

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 002448 Tuan Q. Phan

Concentrationist: 002448 Tuan Q. Phan

QC BATCH: 0060207

PREP DATE: 3/01/10 11:00
COMP DATE: 3/02/10 7:30

Reviewer/Date: PHANT / 3/02/10

Organic Compounds by UV/HPLC
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/05/10	A0B250493-002 0060138 **LV3R5-1-AD**	DR	13	V9	SOLID	**1.99g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	N/A
COMMENTS:															
3/10/10	3/05/10	A0B250493-002 0060138 **LV3R5-1-AHS**	DR	13	V9	SOLID	**2.02g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 N/A
COMMENTS:															
3/10/10	3/05/10	A0B250493-002 0060138 **LV3R5-1-AJD**	DR	13	V9	SOLID	**2.03g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 N/A
COMMENTS:															
3/10/10	0/00/00	G0C010000-207 **LV6RG-1-AAB**		13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	N/A
COMMENTS:															
3/10/10	0/00/00	G0C010000-207 **LV6RG-1-ACC**		13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 N/A
COMMENTS:															

1.3G/L CACL2 3844-001B
.45 FILTER MILLIPORE LOT R9EN05392

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 5

TestAmerica
THE LEADER in ENVIRONMENTAL TESTING

Preparation Data Review Checklist

Prep Batch(es): 0060207 Test: NQ - 5

Prep Date: 3/1/10 Holding Times: 3/10/10 NCM: Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate		
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)		
3. Amount of samples in hood match amount of samples on bench sheet Sample IDS match.		NA
4. Worksheets have been checked for required spiking compounds		
5. Spiking volumes are correctly documented		
6. Std ID numbers on spike labels match numbers on bench sheet		NA
7. Expiration dates have been checked		
8. Calibration expiration dates on pipettors have been checked		NA
9. Spiker and spike witness have signed and dated bench sheet		
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: HD Date: 3/1/10

2nd Level Reviewer: [signature] Date: 3/2/10

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

GC/HPLC Data Review Checklist

Lot ID: A0B250493 **Test:** NQ-S **PM:** MJL

Prep Batch(es) 0060207 **Due Date:** 3/5/10 **NCM:** Y (N)

A. Calibration/Instrument Run QC	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV Criteria met.	✓	✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria			✓
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.			✓
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
B. QA/QC			
1. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
2. LCS/LCSD and MB data is included.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	✓	✓	
4. MS/MSD data complete.	✓	✓	
5. Holding Times were met. 3/10/2010	✓	✓	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	✓	✓	
2. Logbooks/prep sheets properly filled out.	✓	✓	
3. Manual Integrations reviewed and appropriate.			✓
4. All raw data for samples is included (applies to unused data as well)	✓	✓	
5. All analytes correctly reported.	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: K Mason Date: 3/5/10

2nd Level Reviewer: Mway Date: 3/5/2010

Comments:

SOLID, 353.2, Nitrocellulose

Nitrocellulose

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Level 1 & 2 Review Checklist
General Chemistry

Lots: AOB160474 AOB180429, AOB180524, AOB230467, AOB250493, AOB240490

Analysis: Nitrocellulose Date(s): 3·1·10 Analyst: CLH

Level 1 Review:	YES	NO	N/A
1. Samples properly preserved/verified			✓
2. Run setup meets std criteria (Curve,ICV,ICB,CCV,etc)	✓		
3. Calibration criteria met (R=0.995, R^2=0.990)	✓		
4. Second source std in control	✓		
5. Batch QC in control (LCS,MB,MS/MSD,DCS-if necessary)	✓		
6. Calculations checked	✓		
7. QAS/QAPP consulted for client specific requirements	✓		
8. Standard tracking #'s recorded on runlog/benchsheet	✓		
9. Manual integration performed, documented & approved			✓
10. Copy of run log included with data package	✓		
11. Copy of conductivity screen logbook (314.0 only)			✓

Level 1 Data Review:			
1. Benchsheet complete	✓		
2. QAS/QAPP consulted for client specific data entry	✓		
3. Copy of prep sheet/checklist submitted	✓		
4. NCM(s) submitted	✓		✓ CLH 3·2·10

Completed by and Date: CLH 3·2·10

Level 2 Review:			
1. Level 1 checklist complete & verified	X		
2. Deviations, NCM(s), holding times checked & approved	X		
3. Reprep/Reanalysis documented and chemist notified			X
4. Client specific criteria met	X		
5. Data entry checked and released in LIMS	X		
6. Indication on benchsheet of review (dated and initialed)	X		
7. Manual integration reviewed, approved (dated and initialed)			X
8. Copy of run log included with data package	X		
9. Copy of conductivity screen logbook (314.0 only)			X

Completed by and Date: BEV 3/4/10

Comments:

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0056149**

Date 3/02/2010
Time 11:19:32

Method Code:**WA Nitrocellulose as N by 353.2**
Analyst:**Chris Hebert**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Output Result	LDL	Dil.
LVQVK-1-CA	.83	mg/kg	5.0	02/25-03/01/10	69.33	N		1.2 B,J	7.2	1.00
LVQVL-1-CA	.7	mg/kg	5	02/25-03/01/10	71.12	N		0.98 B,J	7.0	1.00
LVTQ3-1-CC	.85	mg/kg	5.0	02/25-03/01/10	98.12	N		0.87 B,J	5.1	1.00
LVTT0-1-A9	2.4	mg/kg	5.0	02/25-03/01/10	98.11	N		2.4 B,J	5.1	1.00
LVVFK-1-CA	.85	mg/kg	5.0	02/25-03/01/10	64.71	N		1.3 B,J	7.7	1.00
LVVF1-1-CA	.93	mg/kg	5	02/25-03/01/10	71.34	N		1.3 B,J	7.0	1.00
LVVF6-1-CA	.44	mg/kg	5	02/25-03/01/10	60.95	N		ND	8.2	1.00
LVWW9-1-CA	.76	mg/kg	5.0	02/25-03/01/10	62.31	N		1.2 B,J	8.0	1.00
LVWXC-1-CA	.85	mg/kg	5	02/25-03/01/10	59.87	N		1.4 B,J	8.4	1.00
LVWX1-1-CA	.36	mg/kg	5.0	02/25-03/01/10	82.49	N		ND	6.1	1.00
LVWX8-1-CA	.48	mg/kg	5.0	02/25-03/01/10	65.65	N		ND	7.6	1.00
LV03V-1-CA	.52	mg/kg	5.0	02/25-03/01/10	81.87	N		ND	6.1	1.00
LV3EQ-1-AA	.8	mg/kg	5.0	02/25-03/01/10	.00			0.80 B	5.0	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.
B Estimated result. Result is less than RL.
J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
LV3EQ-1-AC		50.9	34.2	67.19	02/25-03/01/10	(34-115)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil.
LVQVK-1-CF		.83	50.647	17.80	16.9	33.50	31.57	5.18	02/25-03/01/10	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0057293**

Date 3/02/2010
Time 11:26:07

Method Code: **WA Nitrocellulose as N by 353.2**
Analyst: **Chris Hebert**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
LV2D2-1-CA	1.56	mg/kg	5.0	02/26-03/01/10	77.95	N		2.0 B	6.4	1.00
LV2D5-1-CA	.85	mg/kg	5	02/26-03/01/10	82.28	N		1.0 B	6.1	1.00
LV2FH-1-CA	.94	mg/kg	5.0	02/26-03/01/10	79.59	N		1.2 B	6.3	1.00
LV3R5-1-AE	.72	mg/kg	5.0	02/26-03/01/10	94.11	N		ND	5.3	1.00
LV5R9-1-AA	.61	mg/kg	5.0	02/26-03/01/10	.00			ND	5.0	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.
B Estimated result. Result is less than RL.

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
LV5R9-1-AC		50.9	34.7	68.17	02/26-03/01/10	(34-115)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	DUP	RPD	Prep. - Anal.	Dil.
LV3R5-1-AF		.72	50.697	22.3	23.5	42.56	45.24	5.24	02/26-03/01/10	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

General Chemistry Standards and Reagent Usage Log

Test: Nitrate+Nitrite Analysis
Method: EPA 353.2

SOP ID: ~~SAG-WC-0030 (Nitrate+Nitrite)~~
WS-WC-0050 (Nitrocellulose)

Batch ID: 0056149, 0057293
File ID: 030110A

Instrument ID: FS4 Alpkem

Standards

Source Standards	Tracking ID	Exp Date
Calibration		
NO3 (1000 mg/L, as N)	3745-WC-2-7	6-9-10
NO2 (1000 mg/L, as N)	3745-WC-2-2	6-9-10
Reference		
NO3 (1000 mg/L, as N)	3745-WC-29-1	10-12-10
NO2 (1000 mg/L, as N)	3745-WC-29-10	9-30-10

Monthly Intermediate Calibration Standard

	Conc (mg/L, as N)	Tracking ID	Exp Date
NO3+NO2	100	3872-WC-5-1	3-10-10

Monthly Working Standards

	Conc (mg/L, as N)	Tracking ID	Exp Date
S1	0.05	3872-WC-5-2	3-10-10
S2	0.2	3872-WC-5-3	
S3	0.4	3872-WC-5-4	
S4	1	3872-WC-5-5	
S5	2	3872-WC-5-6	
ICV	1	3872-WC-5-7	
NO2	1	3872-WC-5-8	
NO3	1	3872-WC-5-9	

Reagents

Reagent	Tracking ID	Exp Date
Color Reagent	3755-WC-21-5	4-25-10
Buffer	3755-WC-26-4	3-1-11

All tracking numbers and expiration dates were checked as accurate prior to reagent or standard use:

Chemist: CLH Date: 3-1-10

Q:\FORMS\QA-584 NO2-NO3 RS.xls QA-584 JDR 11/1/08

NITROCELLULOSE

(SOP # WS-WC-0050, Rev 3.0)

ANALYST CLH
CHECKED BY [redacted]
BATCH NO. 0056149 0057293

DATE 03/01/10 18:24
DATE 3/4/10
INST - FS4

METHOD NO. 353.2
PROJECT NO.
SOLIDS MDL - 0.78 mg/kg RL - 5.0 mg/kg
AQUEOUS MDL - 0.12 mg/L RL - 0.5 mg/L

FILE 030110A

	Lab ID	Time	Standard Conc. mg/L	Cup #	Sample Aliquot gram	Sample Aliquot mL	Extract Volume mL	Dilution	Height	$NO_3 + NO_2$ Raw Result	Nitrocellulose mg/L	Nitrocellulose ug/g	Nitrocellulose Recovery	Nitrocellulose Check
											Slope = 1.2268E+05			
											Intercept = 4.2416E+02			
											Correlation = 0.999972			
											%Nitrocellulose Assay = 0.111			
1	Cal 0	16:42	0	0	[redacted]				25	-0.003000				
2	Cal 1	16:44	0.05	102					7644	0.059000				
3	Cal 2	16:46	0.2	103					24238	0.194000				
4	Cal 3	16:48	0.4	104					49899	0.403000				
5	Cal 4	16:50	1	105					122433	0.995000				
6	Cal 5	16:52	2	106					246075	2.002000				
7	Blank	16:54		0				1	-48	-0.004000				
8	ICV	16:56	1	107				1	124044	1.008000			100.8%	
9	MRL 0.05PPM	16:59	0.05	102				1	7182	0.055000			110.2%	
10	NO2 1PPM	17:01	1	108				1	123347	1.002000			100.2%	
11	NO3 1PPM	17:03	1	109				1	121362	0.986000			98.6%	
12	Blank	17:05		0				1	-66	-0.004000				
13	Baseline	17:07		0				1	0	-0.003000				
14	MB 0056149	17:09		201	10		40	1	3159	0.022000		0.80		
15	LCS 0046149	17:11	50.9	202	10		40	1	116913	0.950000		34.20	67.2%	
16	A0B160474-4	17:13		203	10		40	1	3251	0.023000		0.83		
17	A0B160474-4S	17:15	50.647	204	10.05		40	1	61469	0.498000		17.80	~~85.1%~~	33.5%
18	A0B160474-4D	17:17	50.9	205	10		40	1	57939	0.469000		16.90	~~80.2%~~	31.5%
19	A0B160474-5	17:19		206	10.02		40	1	2827	0.020000		0.70		
20	A0B180429-4	17:21		207	10		40	1	3319	0.024000		0.85		
21	A0B180429-12	17:23		208	10.06		40	1	8648	0.067000		2.40		
22	A0B180524-1	17:25		209	10.01		40	1	3326	0.024000		0.85		
23	A0B180524-4	17:27		210	10.07		40	1	3617	0.026000		0.93		
24	MRL 0.05PPM	17:29	0.05	102				1	6450	0.049000			98.2%	
25	CCV Cal 4	17:31	1	105				1	123069	1.000000			100.0%	
26	Blank	17:33		0				1	-32	-0.004000				
27	Baseline	17:35		0				1	0	-0.003000				
28	A0B180524-5	17:37		211	10.04		40	1	1927	0.012000		0.44		
29	A0B190524-2	17:39		212	10.05		40	1	3013	0.021000		0.76		
30	A0B190524-3	17:41		213	10		40	1	3325	0.024000		0.85		
31	A0B190524-10	17:43		214	10.05		40	1	1669	0.010000		0.36		
32	A0B190524-13	17:45		215	10.03		40	1	2051	0.013000		0.48		
33	A0B230467-1	17:47		216	10.02		40	1	2186	0.014000		0.52		
34	MB 0057293	17:49		217	10		40	1	2513	0.017000		0.61		
35	LCS 0057293	17:51	50.9	218	10		40	1	118605	0.963000		34.70	68.2%	
36	MRL 0.05PPM	17:53	0.05	102				1	6605	0.050000			100.8%	

CLH 3/2/10

Nitrocellulose = (NO3 + NO2) * Prep Factor / 0.111

Nitrocelluose Ver 11-30-00
10-23-2009 ERS

NITROCELLULOSE

(SOP # WS-WC-0050, Rev 3.0)

ANALYST CLH DATE 03/01/10 18:24 METHOD NO. 353.2 FILE 030110A

CHECKED BY [illegible] DATE 3/4/10 PROJECT NO.

BATCH NO. 0056149 0057293 INST - FS4

SOLIDS MDL - 0.78 mg/kg RL - 5.0 mg/kg

AQUEOUS MDL - 0.12 mg/L RL - 0.5 mg/L

	Lab ID	Time	Standard Conc. mg/L	Cup #	Sample Aliquot gram	Sample Aliquot mL	Extract Volume mL	Dilution	Height	$NO_3 + NO_2$ Raw Result	Nitrocellulose			
37	CCV Cal 4	17:55	1	105				1	124520	1.012000			101.2%	
38	Blank	17:57		0				1	33	-0.003000				
39	Baseline	17:59		0				1	0	-0.003000				
40	A0B250493-2	18:01		219	10.21		40	1	2940	0.021000		0.72		
41	A0B250493-2S	18:03	50.697	220	10.04		40	1	76663	0.621000		22.30	~~44.0%~~	22.3%
42	A0B250493-2D	18:05	50.346	221	10.11		40	1	81337	0.660000		23.50	~~46.7%~~	23.5%
43	A0B240490-3	18:07		222	10.23		40	1	5842	0.044000		1.56		
44	A0B240490-4	18:09		223	10.04		40	1	3330	0.024000		0.85		
45	A0B240490-16	18:11		224	10.05		40	1	3646	0.026000		0.94		
46	MRL 0.05PPM	18:13	0.05	102				1	6865	0.053000			105.0%	
47	CCV Cal 4	18:15	1	105				1	124117	1.008000			100.8%	
48	Blank	18:17		0				1	-42	-0.004000				
49	Baseline	18:19		0				1	0	-0.003000				

CLH 3-2-10

Nitrocellulose = (NO3 + NO2) * Prep Factor / 0.111

Nitrocelluose Ver 11-30-00
10-23-2009 ERS

Peak Table:Nitrate/Nitrite

File name: V:\GENCH~%3\ALPKE~_-\2010\NITRO~K%\030110A.RST
Date: 01-Mar-10
Operator: CLH

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	105	Sync	1	SYNC	1	1	119824	0.973291	
2	0	Carryover	1	CO	1	1	108	-0.002582	LO
B	0	Baseline	1	RB	1	1	0	-0.003459	BL
4	0	Cal 0	1	C	1	1	25	-0.003253	LO
5	102	Cal 1	1	C	1	1	7644	0.058852	
6	103	Cal 2	1	C	1	1	24238	0.194118	
7	104	Cal 3	1	C	1	1	49899	0.403296	
8	105	Cal 4	1	C	1	1	122433	0.994558	
9	106	Cal 5	1	C	1	1	246075	2.002429	HI
10	0	Blank	1	BLNK	1	1	-48	-0.003847	LO
11	107	ICV	1	U	1	1	124044	1.007691	
12	102	MRL 0.05PPM	1	U	1	1	7182	0.055087	
13	108	NO2 1PPM	1	U	1	1	123347	1.002014	
14	109	NO3 1PPM	1	U	1	1	121362	0.985831	
15	0	Blank	1	BLNK	1	1	-66	-0.003993	LO
B	0	Baseline	1	RB	1	1	0	-0.003459	BL
17	201	MB 0056149	1	U	1	1	3159	0.022294	
18	202	LCS 0046149	1	U	1	1	116913	0.949565	
19	203	A0B160474-4	1	U	1	1	3251	0.023039	
20	204	A0B160474-4S	1	U	1	1	61469	0.497606	
21	205	A0B160474-4D	1	U	1	1	57939	0.468836	
22	206	A0B160474-5	1	U	1	1	2827	0.019588	
23	207	A0B180429-4	1	U	1	1	3319	0.023597	
24	208	A0B180429-12	1	U	1	1	8648	0.067035	
25	209	A0B180524-1	1	U	1	1	3326	0.023657	
26	210	A0B180524-4	1	U	1	1	3617	0.026027	
27	102	MRL 0.05PPM	1	U	1	1	6450	0.049117	
28	105	CCV Cal 4	1	CCV	1	1	123069	0.999744	
29	0	Blank	1	BLNK	1	1	-32	-0.003721	LO
B	0	Baseline	1	RB	1	1	0	-0.003459	BL
31	211	A0B180524-5	1	U	1	1	1927	0.012250	
32	212	A0B190524-2	1	U	1	1	3013	0.021098	
33	213	A0B190524-3	1	U	1	1	3325	0.023645	
34	214	A0B190524-10	1	U	1	1	1669	0.010145	
35	215	A0B190524-13	1	U	1	1	2051	0.013257	
36	216	A0B230467-1	1	U	1	1	2186	0.014357	
37	217	MB 0057293	1	U	1	1	2513	0.017028	
38	218	LCS 0057293	1	U	1	1	118605	0.963356	
39	102	MRL 0.05PPM	1	U	1	1	6605	0.050379	
40	105	CCV Cal 4	1	CCV	1	1	124520	1.011570	
41	0	Blank	1	BLNK	1	1	33	-0.003190	LO
B	0	Baseline	1	RB	1	1	0	-0.003459	BL
43	219	A0B250493-2	1	U	1	1	2940	0.020503	
44	220	A0B250493-2S	1	U	1	1	76663	0.621466	
45	221	A0B250493-2D	1	U	1	1	81337	0.659561	
46	222	A0B240490-3	1	U	1	1	5842	0.044166	
47	223	A0B240490-4	1	U	1	1	3330	0.023688	
48	224	A0B240490-16	1	U	1	1	3646	0.026259	
49	102	MRL 0.05PPM	1	U	1	1	6865	0.052503	
50	105	CCV Cal 4	1	CCV	1	1	124117	1.008289	
51	0	Blank	1	BLNK	1	1	-42	-0.003805	LO
B	0	Baseline	1	RB	1	1	0	-0.003459	BL

Nitrate/Nitrite:Calibration 1: Peak 4-52

File name: V:\GENCH~%3\ALPKE~_-\2010\NITRO~K%\030110A.RST
Date: 01-Mar-10
Operator: CLH

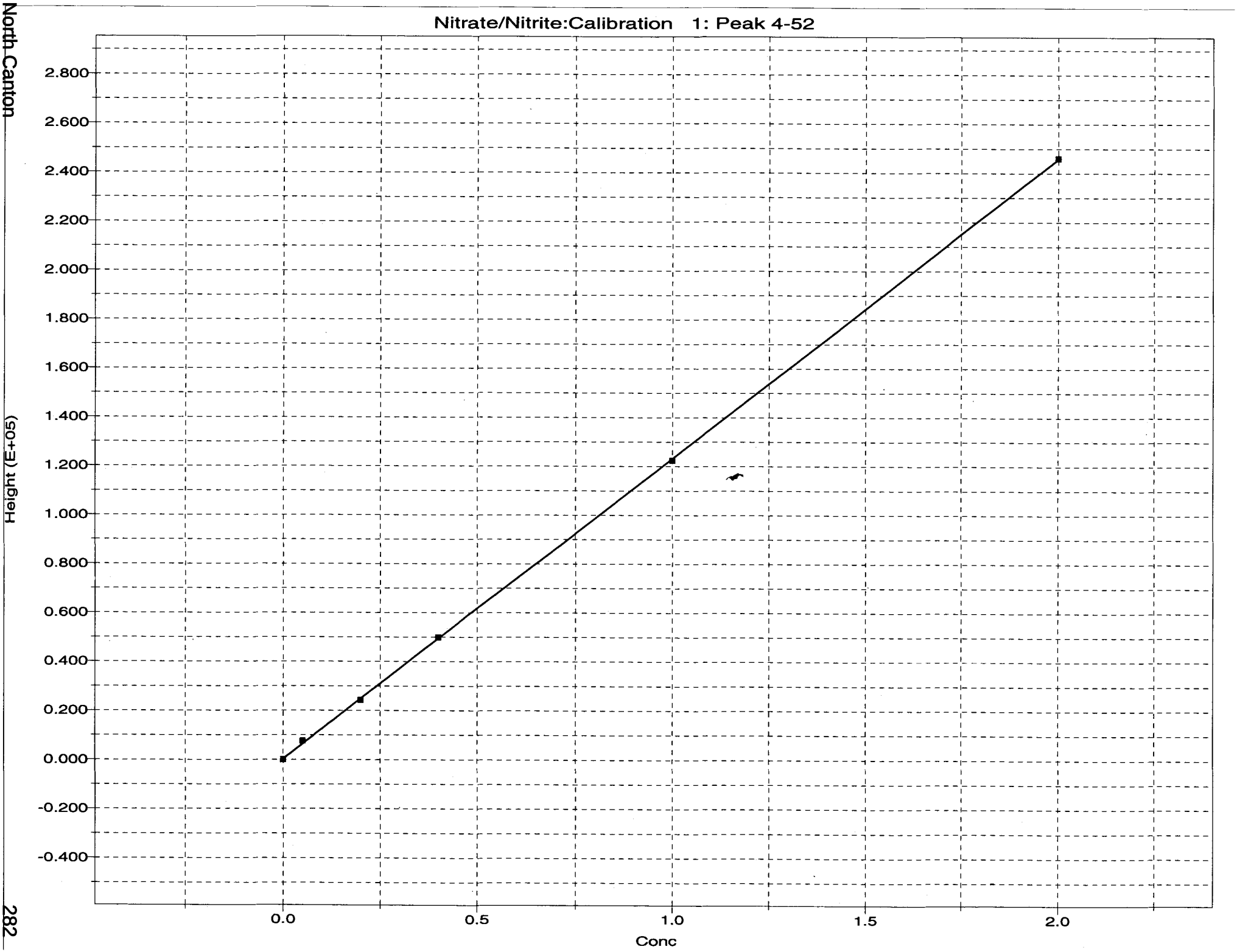
*	Name	Conc	Height
*	Cal 0	0.000000	25.261566
*	Cal 1	0.050000	7644.069824
*	Cal 2	0.200000	24237.955078
*	Cal 3	0.400000	49899.136719
*	Cal 4	1.000000	122432.835938
*	Cal 5	2.000000	246074.546875

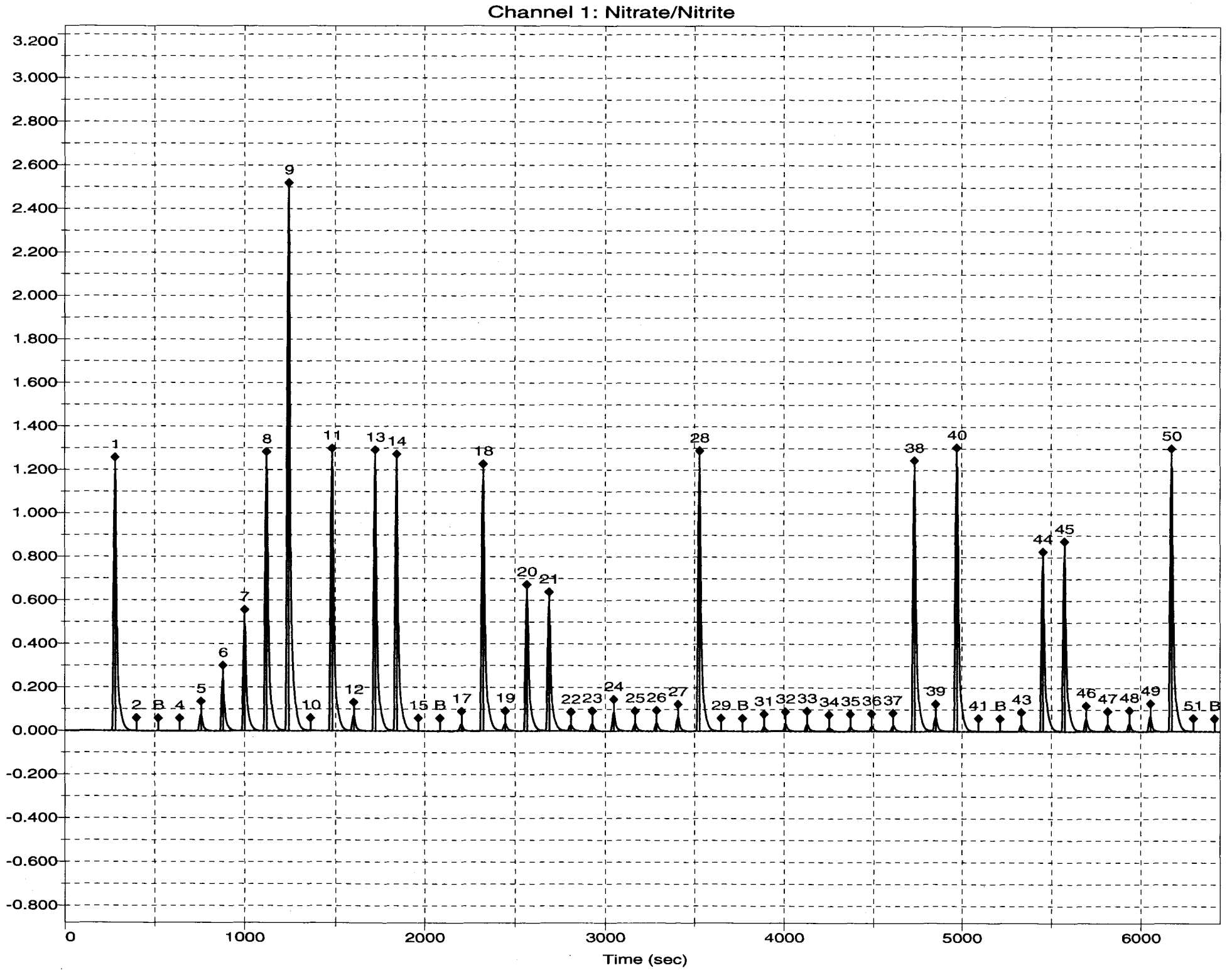
Calib Coef:
y=bx+a
a: (intercept) 4.2432e+02
b: 1.2268e+05

Corr Coef: 0.999971

Carryover: 0.0898%

No Drift Peaks


Nitrate/Nitrite:Calibration 1: Peak 4-52
North Canton
Height (E+05)
2.800
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
0.0
0.5
1.0
1.5
2.0
Conc
282


Channel 1: Nitrate/Nitrite
Absorbance (µAu) (E+05)
Time (sec)
3.200
3.000
2.800
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
-0.600
-0.800
0
1000
2000
3000
4000
5000
6000
1 2 B 4 5 6 7 8 9 10 11 12 13 14 15 B 17 18 19 20 21 22 23 24 25 26 27 28 29 B 31 32 33 34 35 36 37 38 39 40 41 B 43 44 45 46 47 48 49 50 51 B

Report Results by Sample
Result path: V:\GENCH~%3\ALPKE~ -\2010\NITRO~K%\030110A.RST
Sample table path: V:\GENCH~%3\ALPKE~_-\2010\NITRO~K%\030110a.tbl
Method path: C:\FLOW 4\no3_no2.mth
Date acquired: 01-Mar-10
Time acquired: 18:24

Facility Name:
Facility Location:
Department:

Operator Name: CLH
Operator ID: CLH

Platform: FS III/IV
Software Rev Code: 210
Data system ID: 57

Channel: 1
Analysis: Nitrate/Nitrite
CAS Number:
Methodology:

	Temp	Warmup	Run time	Reps
rack 1	Off	303:00:09	617:48:31	-18535
rack 2	Off	303:00:09	617:48:31	-18535
rack 3	Off	303:00:09	617:48:31	-18535

Notes

Cup	Name	S	1:Time	1:Value	1:S
0	Carryover	C	16:38:58	0.00	[C]
0	Baseline	C	16:40:58	0.00	[C]
0	Cal 0	C	16:42:58	0.00	[C]
102	Cal 1	C	16:44:58	0.06	[C]
103	Cal 2	C	16:46:59	0.19	[C]
104	Cal 3	C	16:48:59	0.40	[C]
105	Cal 4	C	16:50:59	0.99	[C]
106	Cal 5	C	16:52:59	2.00	[C]
0	Blank	C	16:54:59	0.00	[C]
107	ICV	-	16:56:59	1.01	[-]
102	MRL 0.05PPM	-	16:59:00	0.06	[-]
108	NO2 1PPM	-	17:01:00	1.00	[-]
109	NO3 1PPM	-	17:03:00	0.99	[-]
0	Blank	C	17:05:00	0.00	[C]
0	Baseline	C	17:07:00	0.00	[C]
201	MB 0056149	-	17:09:00	0.02	[-]
202	LCS 0046149	-	17:11:01	0.95	[-]
203	A0B160474-4	-	17:13:01	0.02	[-]
204	A0B160474-4S	-	17:15:01	0.50	[-]
205	A0B160474-4D	-	17:17:01	0.47	[-]
206	A0B160474-5	-	17:19:01	0.02	[-]
207	A0B180429-4	-	17:21:01	0.02	[-]
208	A0B180429-12	-	17:23:02	0.07	[-]
209	A0B180524-1	-	17:25:02	0.02	[-]
210	A0B180524-4	-	17:27:02	0.03	[-]
102	MRL 0.05PPM	-	17:29:02	0.05	[-]
105	CCV Cal 4	C	17:31:02	1.00	[C]
0	Blank	C	17:33:02	0.00	[C]
0	Baseline	C	17:35:03	0.00	[C]
211	A0B180524-5	-	17:37:03	0.01	[-]
212	A0B190524-2	-	17:39:03	0.02	[-]
213	A0B190524-3	-	17:41:03	0.02	[-]
214	A0B190524-10	-	17:43:03	0.01	[-]
215	A0B190524-13	-	17:45:04	0.01	[-]
216	A0B230467-1	-	17:47:04	0.01	[-]
217	MB 0057293	-	17:49:04	0.02	[-]
218	LCS 0057293	-	17:51:04	0.96	[-]
102	MRL 0.05PPM	-	17:53:04	0.05	[-]
105	CCV Cal 4	C	17:55:05	1.01	[C]
0	Blank	C	17:57:05	0.00	[C]
0	Baseline	C	17:59:05	0.00	[C]
219	A0B250493-2	-	18:01:05	0.02	[-]
220	A0B250493-2S	-	18:03:05	0.62	[-]
221	A0B250493-2D	-	18:05:05	0.66	[-]
222	A0B240490-3	-	18:07:06	0.04	[-]
223	A0B240490-4	-	18:09:06	0.02	[-]
224	A0B240490-16	-	18:11:06	0.03	[-]
102	MRL 0.05PPM	-	18:13:06	0.05	[-]
105	CCV Cal 4	C	18:15:07	1.01	[C]
0	Blank	C	18:17:07	0.00	[C]
0	Baseline	C	18:19:07	0.00	[C]

Sample Preparation Logs

North Canton

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento
Nitrocellulose Extraction Sheet

CLH 3.2.10

3.1.10

Holding Time Due: 3/05/10 | Project Due: 3/05/10 | Analysis Date: CLH 3.2.10

BATCH #: 0057293 | Initiated By: [signature] | Date: 2/26/10

MATRIX: (SOLID) / AQ / OTHER: _____ | Hydrolyzed By: H.A | Date/Time: 3.1.10 started 9:05 – Finished: 10:50

QC Code	Lot #	Sample #	Sample Size (g or mL)	Final Volume (mL)	pH Adjusted to 6-8
-B		-MB	10.00g	40.00mL	(Y) / N
-C		-LCS	10.00g	40.00mL	(Y) / N
	A0B250493	-2	10.21g	40.00mL	(Y) / N
-S	↓	-2MS	10.04g	40.00mL	(Y) / N
-D	↓	-2MSD	10.11g	40.00mL	(Y) / N
	A0B240490	-3	10.23g	40.00mL	(Y) / N
	↓	-4	10.04g	40.00mL	(Y) / N
	↓	-16	10.05g	40.00mL	(Y) / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N

SOP No.: WS-WC-0050

EXTRACTION COMMENTS:

Extracted as per SOP 2/26/10 CH

QC Codes	Standard Information			
	Volume	STD ID	Conc'n (µg/mL)	Exp. Date
C, S, D	1.0mL	E091016A	509 µg/mL	4/16/10

Spiked By: [signature] 2/26/10 Witnessed By: HD 2/26/10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD.

2/26/10

Q:\FORMS\QA-415_NCell_Extraction.doc

QA-415 RE 10/28/09

287

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/01/10
Time: 12:48:56

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets
					computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 002531 Jonathan Reed

Concentrationist: 000915 Horacio J. Arauz

QC BATCH: 0057293

PREP DATE: 2/26/10 16:13
COMP DATE: 3/01/10 11:30

Reviewer/Date: ARAUZH / 3/01/10

Nitrocellulose as N by 353.2
EXTRACTION, SOLID/SOLVENT (Manual)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/21/10	3/17/10	A0B240490-003 0057153 **LV2D2-1-CA**	D	76	WA	SOLID	**10.23g** 40.00mL	NA	NA	NA	ACETONE	45.0	H2O	40.0	
COMMENTS:															
3/21/10	3/17/10	A0B240490-004 0057153 **LV2D5-1-CA**	D	76	WA	SOLID	**10.04g** 40.00mL	NA	NA	NA	ACETONE	45.0	H2O	40.0	
COMMENTS:															
3/21/10	3/17/10	A0B240490-016 0057153 **LV2FH-1-CA**	D	76	WA	SOLID	**10.05g** 40.00mL	NA	NA	NA	ACETONE	45.0	H2O	40.0	
COMMENTS:															
3/22/10	3/05/10	A0B250493-002 0057153 **LV3R5-1-AE**	DR	76	WA	SOLID	**10.21g** 40.00mL	NA	NA	NA	ACETONE	45.0	H2O	40.0	
COMMENTS:															
3/22/10	3/05/10	A0B250493-002 0057153 **LV3R5-1-AFS**	DR	76	WA	SOLID	**10.04g** 40.00mL	NA	NA	NA	ACETONE	45.0	H2O	40.0	E091016A-1.0ML
COMMENTS:															
3/22/10	3/05/10	A0B250493-002 0057153 **LV3R5-1-AG**D	DR	76	WA	SOLID	**10.11g** 40.00mL	NA	NA	NA	ACETONE	45.0	H2O	40.0	E091016A-1.0ML
COMMENTS:															
3/22/10	0/00/00	G0B260000-293 **LV5R9-1-AAB**		76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	ACETONE	45.0	H2O	40.0	
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/01/10
Time: 12:48:56

QC BATCH: 0057293

PREP DATE: 2/26/10 16:13
COMP DATE: 3/01/10 11:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
		G0B260000-293													
3/22/10	0/00/00	**LV5R9-1-ACC**		76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	ACETONE	45.0	H2O	40.0	E091016A-1.0ML

COMMENTS:

MEOH/H2O 3844-005C; J.T.BAKER ACETONE H29E40; .45 FILTER MILLIPORE R9EN05392 50ML CENTRIFUGE TUBE MG-SCIENTIFIC 9190362; SODIUM HYDROXIDE (1N) RICCA 1808597; SULFURIC ACID (2N) RICCA 1904287.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 8

PSL246 TestAmerica West Sacramento
WET CHEM ANALYSIS WORKSHEET LCS

Run Date: 03/01/2010
Time: 12:48
User Id.: ARAUZH
Review Date/By: _______
____
Work Order: LV5R9

Lab Number: G0B260000-293-C
Storage Loc:

Sample Id: INTRA-LAB CHECK

QC Program: STANDARD TEST SET

QC BATCH: 0057293

Matrix: SOLID

* *

ANALYSIS	True Spike Amt.	Meas. Spike Amt.	Spike % Rec	Control Limits	PREP/ Analysis Date	INIT/ QCB#
XX-A-76-WA (NCEL_S) LV5R9-1-AC	________	________	________	(34-115)	_____/ _____	_____/ _____

PSL246 TestAmerica Laboratories, Inc. Run Date: 03/01/2010
WET CHEM ANALYSIS WORKSHEET MS Time: 12:48
User Id.: ARAUZH
Review Date/By: _____

Work Order: LV3R5
Client Code: 366660 Quote #: 84137
Project Manager: Mark J. Loeb Lab Number: A0B250493-002-S
Site: RVAAP PBA2008 17 AOCs RI Storage Loc: SACRAMENTO
Amt. Rec"d: 1X100 1X60
Sample Id: ATASB-008-5135-SO
QC Package: Expanded Deliverables Sampling Date: 2/24/10
QC Program: STANDARD TEST SET Receiving Date: 2/25/10
QC BATCH: 0057293

Sample Comments:
EXP DEL,DOD QSM W/ LCG QCMRLS & MDL CHECKS,REF TS FROM LOT A0B240453-002.
Matrix: SOLID Analytical Due Date: 0/00/00N

ANALYSIS	True Spike Amt.	Meas. Spike Amt.	Spike % Rec	Control Limits	PREP/ Analysis Date	INIT/ QCB#
XX-A-76-WA (NCEL_S) LV3R5-1-AF				(34-115)-71	/	/

RQC050 TestAmerica Laboratories, Inc. Run Date: 3/01/10
Wet Chem Batch Worksheet Time: 12:48:53

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

QC BATCH #: **0057293** INITIALS: DATA ENTRY:
PREP DATE: 2/26/10 16:13 PREP _____ INITIALS _____
COMP DATE: 3/01/10 11:30 ANAL _____ DATE _____
USER: ARAUZH
METHOD: WA Nitrocellulose as N by 353.2

WORK ORD	RESULT	UNITS	LDL/DIL	PREP/ ANL DATE	LAB NUMBER/CLIENT
LV2D2-1-CA	_____	mg/kg	5.0	/____ _____/_____	A-0B240490-003
SAMPLE ID: B12SB-028-5087-SO					
SAMPLE COMMENTS: EMS REQ CLT SPEC,EXP DEL,DOD QSM V3.0 W/ LCG QCMRLS & MDL CHECKS.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LV2D5-1-CA	_____	mg/kg	5	/____ _____/_____	A-0B240490-004
SAMPLE ID: B12SB-028-5088-SO					
SAMPLE COMMENTS: EMS REQ CLT SPEC,EXP DEL,DOD QSM V3.0 W/ LCG QCMRLS & MDL CHECKS.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LV2FH-1-CA	_____	mg/kg	5.0	/____ _____/_____	A-0B240490-016
SAMPLE ID: CPCSS-039-5017-SO					
SAMPLE COMMENTS: EMS REQ CLT SPEC,EXP DEL,DOD QSM V3.0 W/ LCG QCMRLS & MDL CHECKS.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LV3R5-1-AE	_____	mg/kg	5.0	/____ _____/_____	A-0B250493-002
SAMPLE ID: ATASB-008-5135-SO					
SAMPLE COMMENTS: EXP DEL,DOD QSM W/ LCG QCMRLS & MDL CHECKS,REF TS FROM LOT A0B240453-002.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LV3R5-1-AG	_____	mg/kg	5.0	/____ _____/_____	A-0B250493-002-D
SAMPLE ID: ATASB-008-5135-SO					
SAMPLE COMMENTS: EXP DEL,DOD QSM W/ LCG QCMRLS & MDL CHECKS,REF TS FROM LOT A0B240453-002.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LV3R5-1-AF	_____	mg/kg	5.0	/____ _____/_____	A-0B250493-002-S
SAMPLE ID: ATASB-008-5135-SO					
SAMPLE COMMENTS: EXP DEL,DOD QSM W/ LCG QCMRLS & MDL CHECKS,REF TS FROM LOT A0B240453-002.					
ANALYSIS COMMENTS:					
COMMENTS:					366660
LV5R9-1-AA	_____	mg/kg	5.0	/____ _____/_____	G-0B260000-293-B
SAMPLE ID: INTRA-LAB BLANK					
SAMPLE COMMENTS:					

RQC050 TestAmerica Laboratories, Inc. Run Date: 3/01/10
Wet Chem Batch Worksheet Time: 12:48:53

TestAmerica West Sacramen

QC BATCH #: **0057293** INITIALS: DATA ENTRY:
PREP DATE: 2/26/10 16:13 PREP _____ INITIALS _____
COMP DATE: 3/01/10 11:30 ANAL _____ DATE _____
USER: ARAUZH

WORK ORD	RESULT	UNITS	LDL/DIL	PREP/ ANL DATE	LAB NUMBER/CLIENT
LV5R9-1-AC	_____	mg/kg	5.0	/____ _____/_____	G-0B260000-293-C

SAMPLE ID: INTRA-LAB CHECK
SAMPLE COMMENTS:
ANALYSIS COMMENTS:
COMMENTS: 0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0057293 **Test:** NCell-S

Prep Date: 2-26-10 **Holding Times:** 3-5-10 **NCM:** Y N

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. **Holding times checked?** NCMs filed as appropriate		
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)		
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.		NA
4. Worksheets have been checked for required spiking compounds	N/D	
5. Spiking volumes are correctly documented		
6. Std ID numbers on spike labels match numbers on bench sheet		NA
7. Expiration dates have been checked		
8. Calibration expiration dates on pipettors have been checked		NA
9. Spiker and spike witness have signed and dated bench sheet		
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: MD Date: 2/26/10

2nd Level Reviewer: [signature] Date: 3/1/10

Comments:

North Canton

TestAmerica Laboratories, Inc.

Laboratory **TestAmerica West Sacramento**
880 Riverside Parkway
West Sacramento, CA 95605

SAMPLE ANALYSIS REQUISTION

Lab Request SR118066

Report Package: **Expanded Deliverables**

Need Analytical Report 2010-03-05

Client Code: 366660

Project Manager: MARK LOEB

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0B250493-1	LV3RP	ATASB-006-5129-SO	2010-02-24 11:20	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250493-2	LV3R5	ATASB-008-5135-SO	2010-02-24 12:50	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250493-2	LV3R5	ATASB-008-5135-SO	2010-02-24 12:50	SOLID, 8330M, Nitroguanidine Propellant
A0B250493-2	LV3R5	ATASB-008-5135-SO	2010-02-24 12:50	SOLID, 353.2, Nitrocellulose Propellant
A0B250493-3	LV3R7	ATASB-009-5139-SO	2010-02-24 13:55	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250493-4	LV3R9	ATASB-010-5143-SO	2010-02-24 9:23	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250493-5	LV3TC	ATASB-011-5147-SO	2010-02-24 10:45	SOLID, 8330B, Explosives (/W 8330B prep)

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 2/25/10 1430

Relinquished by: _____ Date/Time: _____

Received for lab by: Cheng Vue Date/Time: 2/26/10 - 0955

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT TAL - N. Canton PM KD LOG # 63452

LOT# (QUANTIMS ID) AOB250493 QUOTE# NA LOCATION W19D

Checked (✓)

DATE RECEIVED 2/26/10 TIME RECEIVED 0855 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT

☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER

☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) Seal

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☑

COC #(S) NA ☑

TEMPERATURE BLANK Observed: 1 Corrected: 2

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 2, 4, 1 Average 2 Corrected Average 2

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☐ #5 ☑ ☐ OTHER _____ ☑

CV 2/26/10
Initials Date

==========

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY..... ☑

LABELS CHECKED BY..... ☑

PEER REVIEW _____ ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A ☑

☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

CV 2/26/10
Initials Date

Notes _____

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 172819.00.09456.00.9200.02.200

RVAAP PBA2008 17 AOCs RI

Lot #: A0B250463

CONTRACT NO: W912QR-04-D-0028

DELIVERY ORDER: 0001

Marie Simpson

SAIC
151 LaFayette Drive
PO Box 2502
Oak Ridge, TN 37831

TESTAMERICA LABORATORIES, INC.

Unless noted otherwise, the test results reported herein meet all requirements of NELAC and the current version of the DoD QSM.

Approved for release.
Mark J. Loeb
Project Manager II
3/26/2010 1:03 PM

Mark J. Loeb
Project Manager
mark.loeb@testamericainc.com

March 25, 2010

ACCREDITED IN ACCORDANCE WITH nelac

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0B250463

The following report contains the analytical results for twenty-four solid samples submitted to TestAmerica North Canton by SAIC from the RVAAP PBA2008 17 AOCS RI Site, project number 172819.00.09456.00.9200.02.200. The samples were received February 25, 2010, according to documented sample acceptance procedures.

The 8330B Explosives, 8330M Nitroguanidine Propellant, and 353.2 Nitrocellulose Propellant analyses were performed at the TestAmerica West Sacramento laboratory. Refer to TestAmerica West Sacramento narrative included in their data package for additional information.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Heather Miller, Jenny Vance, Marie Simpson, and Richard Sprinzl on March 22, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Mark J. Loeb, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 0.8 and 1.2°C.

GC/MS VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The samples effected are ATASB-008-5133-SO, ATASB-008-5134-SO, and F16SS-026M-5431-SO(VOCS). The QCMRL opener had three compounds above 130 percent. The compounds are Bromomethane at 133.06 percent, Carbon Tetrachloride at 135.24 percent, and Toluene at 134.03 percent. All three compounds had no reportable results in any of the samples. The QCMRL closer had 1 out of the 3 compounds above 130 percent which is Carbon Tetrachloride at 134.43 percent. The QCMDL detected Carbon Tetrachloride and all the other compounds as well.

GC/MS SEMIVOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

CASE NARRATIVE (continued)

GC/MS SEMIVOLATILES (continued)

The matrix spike/matrix spike duplicate(s) for F16SS-027M-5432-SO had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The client specific or regulatory program requirements stated that corrective action must be performed for surrogate recoveries outside criteria. The repreparation and reanalysis also had surrogate recoveries outside criteria confirming probable matrix interference; therefore, the original data are contained in the report for sample(s) F16SS-028M-5433-SO.

Sample(s) F15SS-036M-5427-SO, F15SS-35M-5428-SO, F15SS-35M-6121-FD, F15SS-038M-5430-SO, F16SS-026M-5431-SO, and F16SS-027M-5432-SO had elevated reporting limits due to matrix interferences.

The blank associated with batch(es) 0060040 is good for all PAH only sample(s) F15SS-036M-5427-SO, F15SS-035M-5428-SO, F15SS-035M-6121-FD, F15SS-037M-5429-SO, F15SS-038M-5430-SO, F16SS-027M-5432-SO, and F16SS-028M-5433-SO.

The QCMRL closer for analyte batch(es) 00312a.b on HP7 failed Hexachlorocyclopentadiene, Benzoic acid, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, and Pentachlorophenol. All compounds were detected in the MDLL3, except Benzoic acid.

As per client request, report results of original analysis for sample(s) ATASB-008-5133-SO, ATASB-008-5134-SO, and F16SS-026M-5431-SO due to reextracts being outside of hold time. All reextract results were good with the exception of sample(s) F16SS-026M-5431-SO, which had one low surrogate recovery (2-Fluorobiphenyl at 44.79%).

PESTICIDES-8081

Sample(s) ATASB-008-5133-SO and F16SS-026M-5431-SO had elevated reporting limits due to color of the extract.

The closing MRL on sequence 100315 IC passed average, but failed Endrin Ketone biased high on the confirmation column. Since sample(s) ATASB-008-5134-SO and F16SS-026M-5431-SO were non-detect for Endrin Ketone, no corrective action was needed.

CASE NARRATIVE (continued)

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

NITROAROMATICS AND NITRAMINES-8330

The matrix spike/matrix spike duplicate(s) for ATASB-010-5141-SO and F16SS-027M-5432-SO had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes flagged with "E".

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for ATASB-010-5141-SO and F16SS-027M-5432-SO due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

The matrix spike/matrix spike duplicate(s) for ATASB-010-5141-SO and F16SS-027M-5432-SO had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Some reporting limits are lower than our standard reporting limit (SRL) but are supported by the laboratory's MDL and/or IDLs; however, there are no standards in the calibration curve low enough to support these values(s). The continuing calibration blanks and method blanks may not support the lower RL.

CASE NARRATIVE (continued)

METALS (continiued)

Per client approval, it is acceptable to use the criteria for method blanks (<1/2 the RL or <1/10 the lowest concentration in the associated samples) for CCBs for metals analysis.

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analytes(s).

MANUAL INTEGRATION SUMMARY

Manual integrations were performed on samples(s) reported herein. A list of samples and analytes for which manual integration was necessary is provided following this Case Narrative.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

MANUAL INTEGRATION SUMMARY

Lot A0B250463

Client ID: F15SS-036M-5427-SO
Compound Name: Benzo(k)fluoranthene
Instrument ID: a4hp7.i
File Name: LV3K91A5.D
Inj. Date and Time: 08-MAR-2010 15:04
Manual Integration Reason: Poor Chromatography

Client ID: ATASB-008-5133-SO
Compound Name: Decachlorobiphenyl
Instrument ID: a2hp9.i
File Name: 020F2001.D
Inj. Date and Time: 15-MAR-2010 15:54
Manual Integration Reason: Baseline Event

Client ID: ATASB-008-5134-SO
Compound Name: AROCLOR-1016
Instrument ID: a2hp13.i
File Name: 029F2901.D
Inj. Date and Time: 05-MAR-2010 13:56
Manual Integration Reason: Analyte not Identified by the Data System

Client ID: ATASB-008-5134-SO
Compound Name: AROCLOR-1016
Instrument ID: a2hp13.i
File Name: 030F3001.D
Inj. Date and Time: 05-MAR-2010 14:11
Manual Integration Reason: Analyte not Identified by the Data System

Client ID: F16SS-027M-5432-SO
Compound Name: N-Nitroso-di-n-propylamine
Instrument ID: a4hp7.i
File Name: LV3LM1DX.D
Inj. Date and Time: 08-MAR-2010 13:28
Manual Integration Reason: Peak not found

Client ID: F16SS-028M-5433-SO
Compound Name: 2,4,6-Tribromophenol
Instrument ID: a4ag2.i
File Name: LV3LR2AC.D
Inj. Date and Time: 12-MAR-2010 19:22
Manual Integration Reason: Poor Chromatography

Client ID: F16SS-028M-5433-SO
Compound Name: Benzo(b)fluoranthene
Instrument ID: a4ag2.i
File Name: LV3LR2AC.D
Inj. Date and Time: 12-MAR-2010 19:22
Manual Integration Reason: Unknown

MANUAL INTEGRATION SUMMARY

Lot A0B250463 (Continued)

Client ID: F16SS-026M-5431-SO
Compound Name: Benzo(b)fluoranthene
Instrument ID: a4ag2.i
File Name: LV3LJ2AC.D
Inj. Date and Time: 19-MAR-2010 10:25
Manual Integration Reason: Poor Chromatography

Client ID: F15SS-036M-5427-SO
Compound Name: Benzo(k)fluoranthene
Instrument ID: a4hp7.i
File Name: LV3K91A5.D
Inj. Date and Time: 08-MAR-2010 15:04
Manual Integration Reason: Poor Chromatography

Client ID: ATASB-008-5134-SO
Compound Name: Decachlorobiphenyl
Instrument ID: a2hp9.i
File Name: 019F1901.D
Inj. Date and Time: 15-MAR-2010 15:30
Manual Integration Reason: Baseline Event

Client ID: F15SS-035M-5428-SO
Compound Name: Benzo(b)fluoranthene
Instrument ID: a4hp7.i
File Name: LV3LA1AG.D
Inj. Date and Time: 08-MAR-2010 14:07
Manual Integration Reason: Poor Chromatography

Client ID: F15SS-035M-5428-SO
Compound Name: Benzo(k)fluoranthene
Instrument ID: a4hp7.i
File Name: LV3LA1AG.D
Inj. Date and Time: 08-MAR-2010 14:07
Manual Integration Reason: Poor Chromatography

Client ID: F15SS-035M-6121-FD
Compound Name: Benzo(k)fluoranthene
Instrument ID: a4hp7.i
File Name: LV3LC1AP.D
Inj. Date and Time: 08-MAR-2010 14:26
Manual Integration Reason: Poor Chromatography

Client ID: F15SS-037M-5429-SO
Compound Name: Benzo(k)fluoranthene
Instrument ID: a4hp7.i
File Name: LV3LE1AX.D
Inj. Date and Time: 08-MAR-2010 15:43
Manual Integration Reason: Poor Chromatography

MANUAL INTEGRATION SUMMARY

Lot A0B250463 (Continued)

Client ID: F15SS-037M-5429-SO
Compound Name: Benzo(g,h,i)perylene
Instrument ID: a4hp7.i
File Name: LV3LE1AX.D
Inj. Date and Time: 08-MAR-2010 15:43
Manual Integration Reason: Peak not found

Client ID: F16SS-026M-5431-SO
Compound Name: Benzo(b)fluoranthene
Instrument ID: a4hp7.i
File Name: LV3LJ1AC.D
Inj. Date and Time: 12-MAR-2010 11:28
Manual Integration Reason: Poor Chromatography

Client ID: F16SS-027M-5432-SO
Compound Name: Benzo(k)fluoranthene
Instrument ID: a4hp7.i
File Name: LV3LM1DQ.D
Inj. Date and Time: 08-MAR-2010 13:09
Manual Integration Reason: Poor Chromatography

Client ID: ATASB-008-5133-SO
Compound Name: Decachlorobiphenyl
Instrument ID: a2hp9.i
File Name: 038F3801.D
Inj. Date and Time: 11-MAR-2010 16:28
Manual Integration Reason: Poor Chromatography

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0B250463

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-006-5127-SO 02/24/10 10:53 001				
Silver	0.021 J	0.56	mg/kg	SW846 6020
Aluminum	2490 B	112	mg/kg	SW846 6020
Arsenic	7.4	0.56	mg/kg	SW846 6020
Barium	16.5	1.1	mg/kg	SW846 6020
Beryllium	0.15	0.11	mg/kg	SW846 6020
Calcium	17600	224	mg/kg	SW846 6020
Cadmium	0.095 J	0.22	mg/kg	SW846 6020
Cobalt	3.8 B	0.56	mg/kg	SW846 6020
Chromium	5.1	0.56	mg/kg	SW846 6020
Copper	13.3	0.56	mg/kg	SW846 6020
Iron	12400 B	56.1	mg/kg	SW846 6020
Potassium	289	112	mg/kg	SW846 6020
Magnesium	4580	112	mg/kg	SW846 6020
Manganese	243	1.1	mg/kg	SW846 6020
Sodium	35.2 J	112	mg/kg	SW846 6020
Nickel	8.4	1.1	mg/kg	SW846 6020
Lead	7.7	0.34	mg/kg	SW846 6020
Antimony	0.12 J	0.56	mg/kg	SW846 6020
Selenium	0.51 J	0.56	mg/kg	SW846 6020
Thallium	0.068 J	0.22	mg/kg	SW846 6020
Vanadium	5.7	1.1	mg/kg	SW846 6020
Zinc	49.3 B	4.5	mg/kg	SW846 6020
Mercury	0.061 J	0.11	mg/kg	SW846 7471A
Percent Solids	89.2	10.0	%	MCAWW 160.3 MOD
ATASB-006-6080-FD 02/24/10 10:53 002				
Silver	0.028 J	0.55	mg/kg	SW846 6020
Aluminum	2400 B	111	mg/kg	SW846 6020
Arsenic	8.0	0.55	mg/kg	SW846 6020
Barium	15.4	1.1	mg/kg	SW846 6020
Beryllium	0.15	0.11	mg/kg	SW846 6020
Calcium	26400	222	mg/kg	SW846 6020
Cadmium	0.19 J	0.22	mg/kg	SW846 6020
Cobalt	3.2 B	0.55	mg/kg	SW846 6020
Chromium	4.9	0.55	mg/kg	SW846 6020
Copper	11.3	0.55	mg/kg	SW846 6020
Iron	12100 B	55.5	mg/kg	SW846 6020
Potassium	309	111	mg/kg	SW846 6020
Magnesium	2600	111	mg/kg	SW846 6020
Manganese	289	1.1	mg/kg	SW846 6020
Sodium	37.7 J	111	mg/kg	SW846 6020
Nickel	8.6	1.1	mg/kg	SW846 6020

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EXECUTIVE SUMMARY - Detection Highlights

A0B250463

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-006-6080-FD 02/24/10 10:53 002				
Lead	7.6	0.33	mg/kg	SW846 6020
Antimony	0.10 J	0.55	mg/kg	SW846 6020
Selenium	0.48 J	0.55	mg/kg	SW846 6020
Thallium	0.075 J	0.22	mg/kg	SW846 6020
Vanadium	5.6	1.1	mg/kg	SW846 6020
Zinc	44.1 B	4.4	mg/kg	SW846 6020
Mercury	0.017 J	0.11	mg/kg	SW846 7471A
Percent Solids	90.1	10.0	%	MCAWW 160.3 MOD
ATASB-006-5128-SO 02/24/10 11:15 003				
Silver	0.017 J	0.53	mg/kg	SW846 6020
Aluminum	2100 B	106	mg/kg	SW846 6020
Arsenic	6.8	0.53	mg/kg	SW846 6020
Barium	12.9	1.1	mg/kg	SW846 6020
Beryllium	0.15	0.11	mg/kg	SW846 6020
Calcium	52100	211	mg/kg	SW846 6020
Cadmium	0.063 J	0.21	mg/kg	SW846 6020
Cobalt	2.9 B	0.53	mg/kg	SW846 6020
Chromium	3.6	0.53	mg/kg	SW846 6020
Copper	9.7	0.53	mg/kg	SW846 6020
Iron	12000 B	52.9	mg/kg	SW846 6020
Potassium	287	106	mg/kg	SW846 6020
Magnesium	2670	106	mg/kg	SW846 6020
Manganese	420	1.1	mg/kg	SW846 6020
Sodium	48.9 J	106	mg/kg	SW846 6020
Nickel	7.5	1.1	mg/kg	SW846 6020
Lead	6.3	0.32	mg/kg	SW846 6020
Antimony	0.085 J	0.53	mg/kg	SW846 6020
Selenium	0.69	0.53	mg/kg	SW846 6020
Vanadium	4.6	1.1	mg/kg	SW846 6020
Zinc	32.1 B	4.2	mg/kg	SW846 6020
Percent Solids	94.6	10.0	%	MCAWW 160.3 MOD
ATASB-008-5133-SO 02/24/10 12:30 004				
Silver	0.014 J	0.56	mg/kg	SW846 6020
Aluminum	2680 B	113	mg/kg	SW846 6020
Arsenic	5.8	0.56	mg/kg	SW846 6020
Barium	13.4	1.1	mg/kg	SW846 6020
Beryllium	0.14	0.11	mg/kg	SW846 6020
Calcium	15800	226	mg/kg	SW846 6020
Cadmium	0.069 J	0.23	mg/kg	SW846 6020

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EXECUTIVE SUMMARY - Detection Highlights

A0B250463

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-008-5133-SO 02/24/10 12:30 004				
Cobalt	3.4 B	0.56	mg/kg	SW846 6020
Chromium	4.9	0.56	mg/kg	SW846 6020
Copper	13.4	0.56	mg/kg	SW846 6020
Iron	12000 B	56.4	mg/kg	SW846 6020
Potassium	331	113	mg/kg	SW846 6020
Magnesium	2850	113	mg/kg	SW846 6020
Manganese	247	1.1	mg/kg	SW846 6020
Sodium	31.7 J	113	mg/kg	SW846 6020
Nickel	8.5	1.1	mg/kg	SW846 6020
Lead	8.1	0.34	mg/kg	SW846 6020
Antimony	0.10 J	0.56	mg/kg	SW846 6020
Selenium	0.74	0.56	mg/kg	SW846 6020
Vanadium	5.0	1.1	mg/kg	SW846 6020
Zinc	38.1 B	4.5	mg/kg	SW846 6020
bis(2-Ethylhexyl) phthalate	26 J,B	370	ug/kg	SW846 8270C
Toluene	0.34 J	5.6	ug/kg	SW846 8260B
Percent Solids	88.6	10.0	%	MCAWW 160.3 MOD
Nitrocellulose	0.97 B	5.6	mg/kg	MCAWW 353.2
ATASB-008-5134-SO 02/24/10 12:45 005				
Silver	0.017 J	0.53	mg/kg	SW846 6020
Aluminum	2370 B	105	mg/kg	SW846 6020
Arsenic	6.3	0.53	mg/kg	SW846 6020
Barium	16.3	1.1	mg/kg	SW846 6020
Beryllium	0.14	0.11	mg/kg	SW846 6020
Calcium	25600	210	mg/kg	SW846 6020
Cadmium	0.063 J	0.21	mg/kg	SW846 6020
Cobalt	3.0 B	0.53	mg/kg	SW846 6020
Chromium	4.2	0.53	mg/kg	SW846 6020
Copper	11.2	0.53	mg/kg	SW846 6020
Iron	12700 B	52.5	mg/kg	SW846 6020
Potassium	336	105	mg/kg	SW846 6020
Magnesium	3010	105	mg/kg	SW846 6020
Manganese	230	1.1	mg/kg	SW846 6020
Sodium	40.0 J	105	mg/kg	SW846 6020
Nickel	8.5	1.1	mg/kg	SW846 6020
Lead	5.5	0.32	mg/kg	SW846 6020
Antimony	0.11 J	0.53	mg/kg	SW846 6020
Selenium	0.57	0.53	mg/kg	SW846 6020
Vanadium	5.0	1.1	mg/kg	SW846 6020
Zinc	45.3 B	4.2	mg/kg	SW846 6020

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-008-5134-SO 02/24/10 12:45 005				
bis(2-Ethylhexyl) phthalate	20 J,B	350	ug/kg	SW846 8270C
Toluene	0.43 J	5.3	ug/kg	SW846 8260B
Percent Solids	95.2	10.0	%	MCAWW 160.3 MOD
ATASB-009-5137-SO 02/24/10 13:25 006				
Silver	0.021 J	0.64	mg/kg	SW846 6020
Aluminum	16400 B	127	mg/kg	SW846 6020
Arsenic	12.7	0.64	mg/kg	SW846 6020
Barium	49.2	1.3	mg/kg	SW846 6020
Beryllium	0.64	0.13	mg/kg	SW846 6020
Calcium	2270	254	mg/kg	SW846 6020
Cadmium	0.042 J	0.25	mg/kg	SW846 6020
Cobalt	8.8 B	0.64	mg/kg	SW846 6020
Chromium	20.9	0.64	mg/kg	SW846 6020
Copper	20.9	0.64	mg/kg	SW846 6020
Iron	30200 B	63.5	mg/kg	SW846 6020
Potassium	1450	127	mg/kg	SW846 6020
Magnesium	3810	127	mg/kg	SW846 6020
Manganese	204	1.3	mg/kg	SW846 6020
Sodium	43.8 J	127	mg/kg	SW846 6020
Nickel	25.1	1.3	mg/kg	SW846 6020
Lead	13.3	0.38	mg/kg	SW846 6020
Antimony	0.11 J	0.64	mg/kg	SW846 6020
Selenium	0.86	0.64	mg/kg	SW846 6020
Thallium	0.17 J	0.25	mg/kg	SW846 6020
Vanadium	24.3	1.3	mg/kg	SW846 6020
Zinc	60.9 B	5.1	mg/kg	SW846 6020
Mercury	0.049 J	0.13	mg/kg	SW846 7471A
Percent Solids	78.7	10.0	%	MCAWW 160.3 MOD
ATASB-009-5138-SO 02/24/10 13:50 007				
Silver	0.020 J	0.61	mg/kg	SW846 6020
Aluminum	14900 B	121	mg/kg	SW846 6020
Arsenic	10.7	0.61	mg/kg	SW846 6020
Barium	96.1	1.2	mg/kg	SW846 6020
Beryllium	0.81	0.12	mg/kg	SW846 6020
Calcium	26000	242	mg/kg	SW846 6020
Cadmium	0.082 J	0.24	mg/kg	SW846 6020
Cobalt	13.8 B	0.61	mg/kg	SW846 6020
Chromium	22.2	0.61	mg/kg	SW846 6020

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-009-5138-SO 02/24/10 13:50 007				
Copper	20.1	0.61	mg/kg	SW846 6020
Iron	28600 B	60.5	mg/kg	SW846 6020
Potassium	2460	121	mg/kg	SW846 6020
Magnesium	7690	121	mg/kg	SW846 6020
Manganese	437	1.2	mg/kg	SW846 6020
Sodium	96.4 J	121	mg/kg	SW846 6020
Nickel	32.5	1.2	mg/kg	SW846 6020
Lead	11.9	0.36	mg/kg	SW846 6020
Antimony	0.084 J	0.61	mg/kg	SW846 6020
Selenium	1.0	0.61	mg/kg	SW846 6020
Thallium	0.20 J	0.24	mg/kg	SW846 6020
Vanadium	25.2	1.2	mg/kg	SW846 6020
Zinc	60.4 B	4.8	mg/kg	SW846 6020
Mercury	0.033 J	0.12	mg/kg	SW846 7471A
Percent Solids	82.6	10.0	%	MCAWW 160.3 MOD
ATASB-009-6081-FD 02/24/10 13:55 008				
Silver	0.019 J	0.58	mg/kg	SW846 6020
Aluminum	4370 B	115	mg/kg	SW846 6020
Arsenic	9.8	0.58	mg/kg	SW846 6020
Barium	26.0	1.2	mg/kg	SW846 6020
Beryllium	0.24	0.12	mg/kg	SW846 6020
Calcium	12900	230	mg/kg	SW846 6020
Cadmium	0.080 J	0.23	mg/kg	SW846 6020
Cobalt	4.9 B	0.58	mg/kg	SW846 6020
Chromium	7.2	0.58	mg/kg	SW846 6020
Copper	16.1	0.58	mg/kg	SW846 6020
Iron	14400 B	57.6	mg/kg	SW846 6020
Potassium	827	115	mg/kg	SW846 6020
Magnesium	3660	115	mg/kg	SW846 6020
Manganese	246	1.2	mg/kg	SW846 6020
Sodium	61.3 J	115	mg/kg	SW846 6020
Nickel	12.1	1.2	mg/kg	SW846 6020
Lead	8.6	0.35	mg/kg	SW846 6020
Antimony	0.076 J	0.58	mg/kg	SW846 6020
Selenium	0.67	0.58	mg/kg	SW846 6020
Thallium	0.089 J	0.23	mg/kg	SW846 6020
Vanadium	9.5	1.2	mg/kg	SW846 6020
Zinc	52.0 B	4.6	mg/kg	SW846 6020
Percent Solids	86.8	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-010-5141-SO 02/24/10 08:22 009				
Silver	0.024 J	0.66	mg/kg	SW846 6020
Aluminum	15400	13.2	mg/kg	SW846 6020
Arsenic	11.6 E	0.66	mg/kg	SW846 6020
Barium	47.9	1.3	mg/kg	SW846 6020
Beryllium	0.40	0.13	mg/kg	SW846 6020
Calcium	542	263	mg/kg	SW846 6020
Cadmium	0.028 J	0.26	mg/kg	SW846 6020
Cobalt	5.7	0.66	mg/kg	SW846 6020
Chromium	18.0	0.66	mg/kg	SW846 6020
Copper	11.1	0.66	mg/kg	SW846 6020
Iron	25200	65.8	mg/kg	SW846 6020
Potassium	923 B	132	mg/kg	SW846 6020
Magnesium	2660	132	mg/kg	SW846 6020
Manganese	184	1.3	mg/kg	SW846 6020
Sodium	103 J	132	mg/kg	SW846 6020
Nickel	12.5	1.3	mg/kg	SW846 6020
Lead	12.2	0.39	mg/kg	SW846 6020
Antimony	0.15 J	0.66	mg/kg	SW846 6020
Selenium	0.87	0.66	mg/kg	SW846 6020
Thallium	0.20 J	0.26	mg/kg	SW846 6020
Vanadium	30.1	1.3	mg/kg	SW846 6020
Zinc	41.9	5.3	mg/kg	SW846 6020
Mercury	0.048 J	0.13	mg/kg	SW846 7471A
Percent Solids	76.0	10.0	%	MCAWW 160.3 MOD
ATASB-010-5142-SO 02/24/10 09:00 010				
Silver	0.013 J	0.60	mg/kg	SW846 6020
Aluminum	12600 B	119	mg/kg	SW846 6020
Arsenic	13.3	0.60	mg/kg	SW846 6020
Barium	104	1.2	mg/kg	SW846 6020
Beryllium	0.72	0.12	mg/kg	SW846 6020
Calcium	1780	239	mg/kg	SW846 6020
Cadmium	0.085 J	0.24	mg/kg	SW846 6020
Cobalt	13.5 B	0.60	mg/kg	SW846 6020
Chromium	18.2	0.60	mg/kg	SW846 6020
Copper	23.1	0.60	mg/kg	SW846 6020
Iron	28600 B	59.6	mg/kg	SW846 6020
Potassium	1530	119	mg/kg	SW846 6020
Magnesium	4560	119	mg/kg	SW846 6020
Manganese	426	1.2	mg/kg	SW846 6020
Sodium	66.3 J	119	mg/kg	SW846 6020
Nickel	38.6	1.2	mg/kg	SW846 6020

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-010-5142-SO 02/24/10 09:00 010				
Lead	13.0	0.36	mg/kg	SW846 6020
Antimony	0.10 J	0.60	mg/kg	SW846 6020
Selenium	1.1	0.60	mg/kg	SW846 6020
Thallium	0.18 J	0.24	mg/kg	SW846 6020
Vanadium	20.2	1.2	mg/kg	SW846 6020
Zinc	68.8 B	4.8	mg/kg	SW846 6020
Percent Solids	83.8	10.0	%	MCAWW 160.3 MOD
ATASB-011-5145-SO 02/24/10 10:00 011				
Silver	0.040 J	0.71	mg/kg	SW846 6020
Aluminum	13100 B	141	mg/kg	SW846 6020
Arsenic	11.6	0.71	mg/kg	SW846 6020
Barium	65.1	1.4	mg/kg	SW846 6020
Beryllium	0.57	0.14	mg/kg	SW846 6020
Calcium	961	282	mg/kg	SW846 6020
Cadmium	0.12 J	0.28	mg/kg	SW846 6020
Cobalt	12.0 B	0.71	mg/kg	SW846 6020
Chromium	16.9	0.71	mg/kg	SW846 6020
Copper	8.5	0.71	mg/kg	SW846 6020
Iron	25900 B	70.6	mg/kg	SW846 6020
Potassium	890	141	mg/kg	SW846 6020
Magnesium	2300	141	mg/kg	SW846 6020
Manganese	1180	1.4	mg/kg	SW846 6020
Sodium	36.9 J	141	mg/kg	SW846 6020
Nickel	12.5	1.4	mg/kg	SW846 6020
Lead	19.7	0.42	mg/kg	SW846 6020
Antimony	0.13 J	0.71	mg/kg	SW846 6020
Selenium	1.1	0.71	mg/kg	SW846 6020
Thallium	0.17 J	0.28	mg/kg	SW846 6020
Vanadium	27.4	1.4	mg/kg	SW846 6020
Zinc	57.1 B	5.6	mg/kg	SW846 6020
Mercury	0.077 J	0.14	mg/kg	SW846 7471A
Percent Solids	70.8	10.0	%	MCAWW 160.3 MOD
ATASB-011-5146-SO 02/24/10 10:24 012				
Silver	0.021 J	0.64	mg/kg	SW846 6020
Aluminum	15800 B	128	mg/kg	SW846 6020
Arsenic	12.2	0.64	mg/kg	SW846 6020
Barium	80.6	1.3	mg/kg	SW846 6020
Beryllium	0.60	0.13	mg/kg	SW846 6020
Calcium	1280	255	mg/kg	SW846 6020

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ATASB-011-5146-SO 02/24/10 10:24 012				
Cadmium	0.042 J	0.26	mg/kg	SW846 6020
Cobalt	9.1 B	0.64	mg/kg	SW846 6020
Chromium	20.9	0.64	mg/kg	SW846 6020
Copper	20.0	0.64	mg/kg	SW846 6020
Iron	29700 B	63.8	mg/kg	SW846 6020
Potassium	1110	128	mg/kg	SW846 6020
Magnesium	3920	128	mg/kg	SW846 6020
Manganese	167	1.3	mg/kg	SW846 6020
Sodium	45.5 J	128	mg/kg	SW846 6020
Nickel	25.2	1.3	mg/kg	SW846 6020
Lead	12.8	0.38	mg/kg	SW846 6020
Antimony	0.090 J	0.64	mg/kg	SW846 6020
Selenium	0.91	0.64	mg/kg	SW846 6020
Thallium	0.18 J	0.26	mg/kg	SW846 6020
Vanadium	23.8	1.3	mg/kg	SW846 6020
Zinc	52.5 B	5.1	mg/kg	SW846 6020
Mercury	0.040 J	0.13	mg/kg	SW846 7471A
Percent Solids	78.4	10.0	%	MCAWW 160.3 MOD
F15SS-036M-5427-SO 02/24/10 14:00 013				
Silver	0.043 J	0.51	mg/kg	SW846 6020
Aluminum	9950 B	102	mg/kg	SW846 6020
Arsenic	10.4	0.51	mg/kg	SW846 6020
Barium	87.3	1.0	mg/kg	SW846 6020
Beryllium	0.78	0.10	mg/kg	SW846 6020
Calcium	6740	204	mg/kg	SW846 6020
Cadmium	0.23	0.20	mg/kg	SW846 6020
Cobalt	9.3 B	0.51	mg/kg	SW846 6020
Chromium	86.2	0.51	mg/kg	SW846 6020
Copper	38.4	0.51	mg/kg	SW846 6020
Iron	24500 B	51.0	mg/kg	SW846 6020
Potassium	767	102	mg/kg	SW846 6020
Magnesium	2790	102	mg/kg	SW846 6020
Manganese	830	1.0	mg/kg	SW846 6020
Sodium	77.3 J	102	mg/kg	SW846 6020
Nickel	47.3	1.0	mg/kg	SW846 6020
Lead	19.6	0.31	mg/kg	SW846 6020
Antimony	0.16 J	0.51	mg/kg	SW846 6020
Selenium	1.2	0.51	mg/kg	SW846 6020
Thallium	0.14 J	0.20	mg/kg	SW846 6020
Vanadium	16.9	1.0	mg/kg	SW846 6020
Zinc	74.3 B	4.1	mg/kg	SW846 6020

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
F15SS-036M-5427-SO 02/24/10 14:00 013				
Mercury	0.072 J	0.10	mg/kg	SW846 7471A
Acenaphthene	80	14	ug/kg	SW846 8270C
Acenaphthylene	22	14	ug/kg	SW846 8270C
Anthracene	130	14	ug/kg	SW846 8270C
Benzo(a)anthracene	490	14	ug/kg	SW846 8270C
Benzo(b)fluoranthene	690	14	ug/kg	SW846 8270C
Benzo(k)fluoranthene	260	14	ug/kg	SW846 8270C
Benzo(ghi)perylene	330	14	ug/kg	SW846 8270C
Benzo(a)pyrene	480	14	ug/kg	SW846 8270C
Chrysene	540	14	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	89	14	ug/kg	SW846 8270C
Fluoranthene	1200	14	ug/kg	SW846 8270C
Fluorene	62	14	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	300	14	ug/kg	SW846 8270C
Naphthalene	95	14	ug/kg	SW846 8270C
Phenanthrene	710	14	ug/kg	SW846 8270C
Pyrene	850	14	ug/kg	SW846 8270C
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
F15SS-035M-5428-SO 02/24/10 12:00 014				
Silver	0.037 J	0.51	mg/kg	SW846 6020
Aluminum	14000 B	102	mg/kg	SW846 6020
Arsenic	10	0.51	mg/kg	SW846 6020
Barium	99.3	1.0	mg/kg	SW846 6020
Beryllium	0.97	0.10	mg/kg	SW846 6020
Calcium	12200	204	mg/kg	SW846 6020
Cadmium	0.17 J	0.20	mg/kg	SW846 6020
Cobalt	9.9 B	0.51	mg/kg	SW846 6020
Chromium	101	0.51	mg/kg	SW846 6020
Copper	21.1	0.51	mg/kg	SW846 6020
Iron	24100 B	51.0	mg/kg	SW846 6020
Potassium	1150	102	mg/kg	SW846 6020
Magnesium	4270	102	mg/kg	SW846 6020
Manganese	591	1.0	mg/kg	SW846 6020
Sodium	125	102	mg/kg	SW846 6020
Nickel	55.0	1.0	mg/kg	SW846 6020
Lead	31.1	0.31	mg/kg	SW846 6020
Antimony	0.16 J	0.51	mg/kg	SW846 6020
Selenium	1.3	0.51	mg/kg	SW846 6020
Thallium	0.17 J	0.20	mg/kg	SW846 6020
Vanadium	18.3	1.0	mg/kg	SW846 6020
Zinc	67.9 B	4.1	mg/kg	SW846 6020

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
F15SS-035M-5428-SO 02/24/10 12:00 014				
Mercury	0.059 J	0.10	mg/kg	SW846 7471A
Anthracene	29	27	ug/kg	SW846 8270C
Benzo(a)anthracene	120	27	ug/kg	SW846 8270C
Benzo(b)fluoranthene	210	27	ug/kg	SW846 8270C
Benzo(k)fluoranthene	72	27	ug/kg	SW846 8270C
Benzo(ghi)perylene	100	27	ug/kg	SW846 8270C
Benzo(a)pyrene	130	27	ug/kg	SW846 8270C
Chrysene	150	27	ug/kg	SW846 8270C
Fluoranthene	250	27	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	85	27	ug/kg	SW846 8270C
Naphthalene	130	27	ug/kg	SW846 8270C
Phenanthrene	190	27	ug/kg	SW846 8270C
Pyrene	190	27	ug/kg	SW846 8270C
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
F15SS-035M-6121-FD 02/24/10 12:00 015				
Silver	0.034 J	0.51	mg/kg	SW846 6020
Aluminum	12200 B	102	mg/kg	SW846 6020
Arsenic	10.1	0.51	mg/kg	SW846 6020
Barium	91.2	1.0	mg/kg	SW846 6020
Beryllium	0.87	0.10	mg/kg	SW846 6020
Calcium	10600	205	mg/kg	SW846 6020
Cadmium	0.16 J	0.20	mg/kg	SW846 6020
Cobalt	9.4 B	0.51	mg/kg	SW846 6020
Chromium	68.5	0.51	mg/kg	SW846 6020
Copper	24.0	0.51	mg/kg	SW846 6020
Iron	23500 B	51.1	mg/kg	SW846 6020
Potassium	922	102	mg/kg	SW846 6020
Magnesium	4280	102	mg/kg	SW846 6020
Manganese	485	1.0	mg/kg	SW846 6020
Sodium	96.5 J	102	mg/kg	SW846 6020
Nickel	42.4	1.0	mg/kg	SW846 6020
Lead	21.1	0.31	mg/kg	SW846 6020
Antimony	0.18 J	0.51	mg/kg	SW846 6020
Selenium	1.1	0.51	mg/kg	SW846 6020
Thallium	0.17 J	0.20	mg/kg	SW846 6020
Vanadium	18.3	1.0	mg/kg	SW846 6020
Zinc	57.2 B	4.1	mg/kg	SW846 6020
Mercury	0.044 J	0.10	mg/kg	SW846 7471A
Anthracene	48	27	ug/kg	SW846 8270C
Benzo(a)anthracene	140	27	ug/kg	SW846 8270C
Benzo(b)fluoranthene	220	27	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
F15SS-035M-6121-FD 02/24/10 12:00 015				
Benzo(k)fluoranthene	70	27	ug/kg	SW846 8270C
Benzo(ghi)perylene	110	27	ug/kg	SW846 8270C
Benzo(a)pyrene	140	27	ug/kg	SW846 8270C
Chrysene	180	27	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	29	27	ug/kg	SW846 8270C
Fluoranthene	320	27	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	94	27	ug/kg	SW846 8270C
Naphthalene	180	27	ug/kg	SW846 8270C
Phenanthrene	250	27	ug/kg	SW846 8270C
Pyrene	230	27	ug/kg	SW846 8270C
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD
F15SS-037M-5429-SO 02/24/10 13:30 016				
Silver	0.043 J	0.51	mg/kg	SW846 6020
Aluminum	11000 B	103	mg/kg	SW846 6020
Arsenic	10.1	0.51	mg/kg	SW846 6020
Barium	78.3	1.0	mg/kg	SW846 6020
Beryllium	0.58	0.10	mg/kg	SW846 6020
Calcium	3620	205	mg/kg	SW846 6020
Cadmium	0.41	0.21	mg/kg	SW846 6020
Cobalt	9.5 B	0.51	mg/kg	SW846 6020
Chromium	96.8	0.51	mg/kg	SW846 6020
Copper	14.4	0.51	mg/kg	SW846 6020
Iron	24800 B	51.3	mg/kg	SW846 6020
Potassium	907	103	mg/kg	SW846 6020
Magnesium	2520	103	mg/kg	SW846 6020
Manganese	646	1.0	mg/kg	SW846 6020
Sodium	47.9 J	103	mg/kg	SW846 6020
Nickel	54.4	1.0	mg/kg	SW846 6020
Lead	18.0	0.31	mg/kg	SW846 6020
Antimony	0.30 J	0.51	mg/kg	SW846 6020
Selenium	0.88	0.51	mg/kg	SW846 6020
Thallium	0.18 J	0.21	mg/kg	SW846 6020
Vanadium	18.6	1.0	mg/kg	SW846 6020
Zinc	49.0 B	4.1	mg/kg	SW846 6020
Mercury	0.050 J	0.10	mg/kg	SW846 7471A
Benzo(a)anthracene	13	6.8	ug/kg	SW846 8270C
Benzo(b)fluoranthene	26	6.8	ug/kg	SW846 8270C
Benzo(k)fluoranthene	10	6.8	ug/kg	SW846 8270C
Benzo(ghi)perylene	12	6.8	ug/kg	SW846 8270C
Benzo(a)pyrene	14	6.8	ug/kg	SW846 8270C
Chrysene	19	6.8	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
F15SS-037M-5429-SO 02/24/10 13:30 016				
Fluoranthene	28	6.8	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	11	6.8	ug/kg	SW846 8270C
Naphthalene	43	6.8	ug/kg	SW846 8270C
Phenanthrene	29	6.8	ug/kg	SW846 8270C
Pyrene	20	6.8	ug/kg	SW846 8270C
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD
F15SS-038M-5430-SO 02/24/10 12:30 017				
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
F16SS-026M-5431-SO 02/24/10 14:30 018				
Silver	0.034 J	0.51	mg/kg	SW846 6020
Aluminum	13700 B	102	mg/kg	SW846 6020
Arsenic	13.4	0.51	mg/kg	SW846 6020
Barium	106	1.0	mg/kg	SW846 6020
Beryllium	0.78	0.10	mg/kg	SW846 6020
Calcium	5760	204	mg/kg	SW846 6020
Cadmium	0.17 J	0.20	mg/kg	SW846 6020
Cobalt	11.5 B	0.51	mg/kg	SW846 6020
Chromium	58.5	0.51	mg/kg	SW846 6020
Copper	20.8	0.51	mg/kg	SW846 6020
Iron	26800 B	51.0	mg/kg	SW846 6020
Potassium	1310	102	mg/kg	SW846 6020
Magnesium	3620	102	mg/kg	SW846 6020
Manganese	686	1.0	mg/kg	SW846 6020
Sodium	67.5 J	102	mg/kg	SW846 6020
Nickel	39.6	1.0	mg/kg	SW846 6020
Lead	16.7	0.31	mg/kg	SW846 6020
Antimony	0.18 J	0.51	mg/kg	SW846 6020
Selenium	1.2	0.51	mg/kg	SW846 6020
Thallium	0.18 J	0.20	mg/kg	SW846 6020
Vanadium	20.8	1.0	mg/kg	SW846 6020
Zinc	68.7 B	4.1	mg/kg	SW846 6020
Mercury	0.048 J	0.10	mg/kg	SW846 7471A
Benzo(b)fluoranthene	31 J	200	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	93 J,B	1300	ug/kg	SW846 8270C
Fluoranthene	40 J	200	ug/kg	SW846 8270C
2-Methylnaphthalene	140 J	1300	ug/kg	SW846 8270C
Naphthalene	69 J	200	ug/kg	SW846 8270C
Phenanthrene	57 J	200	ug/kg	SW846 8270C

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0B250463

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
F16SS-026M-5431-SO 02/24/10 14:30 018				
Pyrene	34 J	200	ug/kg	SW846 8270C
Chrysene	31 J	200	ug/kg	SW846 8270C
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
Nitrocellulose	1.1 B	5.1	mg/kg	MCAWW 353.2
F16SS-026M-5431-SO(VOCS) 02/24/10 14:30 019				
Chloroform	0.68 J	6.7	ug/kg	SW846 8260B
Percent Solids	74.5	10.0	%	MCAWW 160.3 MOD
F16SS-027M-5432-SO 02/24/10 10:45 020				
Silver	0.048 J	0.51	mg/kg	SW846 6020
Aluminum	12900 B,E	10.2	mg/kg	SW846 6020
Arsenic	9.8	0.51	mg/kg	SW846 6020
Barium	71.4	1.0	mg/kg	SW846 6020
Beryllium	0.84	0.10	mg/kg	SW846 6020
Calcium	7690	204	mg/kg	SW846 6020
Cadmium	0.23	0.20	mg/kg	SW846 6020
Cobalt	8.6 B	0.51	mg/kg	SW846 6020
Chromium	65.3	0.51	mg/kg	SW846 6020
Copper	18.2	0.51	mg/kg	SW846 6020
Iron	29100 B	51.0	mg/kg	SW846 6020
Potassium	1140	102	mg/kg	SW846 6020
Magnesium	3310 E	102	mg/kg	SW846 6020
Manganese	642	1.0	mg/kg	SW846 6020
Sodium	92.3 J	102	mg/kg	SW846 6020
Nickel	37.3	1.0	mg/kg	SW846 6020
Lead	17.8	0.31	mg/kg	SW846 6020
Antimony	0.17 J	0.51	mg/kg	SW846 6020
Selenium	1.1	0.51	mg/kg	SW846 6020
Thallium	0.19 J	0.20	mg/kg	SW846 6020
Vanadium	20.9	1.0	mg/kg	SW846 6020
Zinc	67.0 B	4.1	mg/kg	SW846 6020
Mercury	0.045 J	0.10	mg/kg	SW846 7471A
Benzo(a)anthracene	75	27	ug/kg	SW846 8270C
Benzo(b)fluoranthene	120	27	ug/kg	SW846 8270C
Benzo(k)fluoranthene	39	27	ug/kg	SW846 8270C
Benzo(ghi)perylene	54	27	ug/kg	SW846 8270C
Benzo(a)pyrene	70	27	ug/kg	SW846 8270C
Chrysene	86	27	ug/kg	SW846 8270C
Fluoranthene	190	27	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	43	27	ug/kg	SW846 8270C

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0B250463

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
F16SS-027M-5432-SO 02/24/10 10:45 020				
Naphthalene	88	27	ug/kg	SW846 8270C
Phenanthrene	140	27	ug/kg	SW846 8270C
Pyrene	140	27	ug/kg	SW846 8270C
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
F16SS-028M-5433-SO 02/24/10 10:00 021				
Benzo(a)anthracene	7.0	6.8	ug/kg	SW846 8270C
Benzo(b)fluoranthene	9.3	6.8	ug/kg	SW846 8270C
Benzo(a)pyrene	7.1	6.8	ug/kg	SW846 8270C
Chrysene	7.9	6.8	ug/kg	SW846 8270C
Fluoranthene	12	6.8	ug/kg	SW846 8270C
Pyrene	9.6	6.8	ug/kg	SW846 8270C
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD
F16SS-024-5434-SO 02/24/10 08:50 022				
Chromium	21.0	0.66	mg/kg	SW846 6020
Hexavalent Chromium	2.2	1.1	mg/kg	SW846 7196A
Percent Solids	76.1	10.0	%	MCAWW 160.3 MOD
F16SS-025-5435-SO 02/24/10 09:15 023				
Chromium	21.4	0.68	mg/kg	SW846 6020
Hexavalent Chromium	0.40 J	1.1	mg/kg	SW846 7196A
Percent Solids	74.1	10.0	%	MCAWW 160.3 MOD
F15SS-034-5436-SO 02/24/10 14:10 024				
Chromium	18.4	0.76	mg/kg	SW846 6020
Percent Solids	66.2	10.0	%	MCAWW 160.3 MOD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0B250463

PARAMETER	ANALYTICAL METHOD
Hexavalent Chromium	SW846 7196A
ICP-MS (6020)	SW846 6020
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitroaromatics and Nitramines by HPLC	SW846 8330B
Nitrocellulose as N, 353.2	MCAWW 353.2
Organics by UV/HPLC	SW846 8330 (Modified)
Organochlorine Pesticides	SW846 8081A
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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SAMPLE SUMMARY

SAMPLE SUMMARY

A0B250463

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LV3KM	001	ATASB-006-5127-SO	02/24/10	10:53
LV3KN	002	ATASB-006-6080-FD	02/24/10	10:53
LV3KP	003	ATASB-006-5128-SO	02/24/10	11:15
LV3KQ	004	ATASB-008-5133-SO	02/24/10	12:30
LV3KR	005	ATASB-008-5134-SO	02/24/10	12:45
LV3KT	006	ATASB-009-5137-SO	02/24/10	13:25
LV3KW	007	ATASB-009-5138-SO	02/24/10	13:50
LV3KX	008	ATASB-009-6081-FD	02/24/10	13:55
LV3K1	009	ATASB-010-5141-SO	02/24/10	08:22
LV3K3	010	ATASB-010-5142-SO	02/24/10	09:00
LV3K7	011	ATASB-011-5145-SO	02/24/10	10:00
LV3K8	012	ATASB-011-5146-SO	02/24/10	10:24
LV3K9	013	F15SS-036M-5427-SO	02/24/10	14:00
LV3LA	014	F15SS-035M-5428-SO	02/24/10	12:00
LV3LC	015	F15SS-035M-6121-FD	02/24/10	12:00
LV3LE	016	F15SS-037M-5429-SO	02/24/10	13:30
LV3LH	017	F15SS-038M-5430-SO	02/24/10	12:30
LV3LJ	018	F16SS-026M-5431-SO	02/24/10	14:30
LV3LL	019	F16SS-026M-5431-SO(VOCS)	02/24/10	14:30
LV3LM	020	F16SS-027M-5432-SO	02/24/10	10:45
LV3LR	021	F16SS-028M-5433-SO	02/24/10	10:00
LV3LT	022	F16SS-024-5434-SO	02/24/10	08:50
LV3LW	023	F16SS-025-5435-SO	02/24/10	09:15
LV3LX	024	F15SS-034-5436-SO	02/24/10	14:10

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SHIPPING AND RECEIVING DOCUMENTS

SAIC
From Science to Solutions
151 Lafayette Drive, Oak Ridge, TN 37831
(865) 481-4600

Chain of Custody Record

Science Applications International Corporation

COC NO.: RVAAP-PBA08RI-017
Date: 2/25/2010

PROJECT NAME: RVAAP PBA2008 17 AOCs RI
PO NUMBER: PO10025302
PROJECT NUMBER: 172819.00.09456.00.9200.02.200
PROJECT MANAGER: Kevin Jago
AOC: Anchor Test Area (Subsurface Soil)

Sampler (Signature) RSmd (Printed Name): RichSprinzl

Laboratory Name: TestAmerica
Address: 4101 Shuffel Street NW, North Canton, Ohio 44720
Attn: Mark Loeb
Phone: 330-966-9387

Sample ID	Station ID	Depth (ft)	Date Collected	Time Collected	Matrix	Requested Parameters: TAL Metals + Hg (1)	Explosives (2)	SVOCs (3)	Propellants (4)	VOCs (5)	Pesticides (6)	PCBs (7)	PAHs (8)	Asbestos (9)	Porosity (10)	Bulk Density (11)	Moisture content (12)	Total organic carbon (13)	grain size fraction analysis (14)	permeability, K (undisturbed) (15)	No. of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
ATASB-006-5127-SO	ATAsb-006	0-1	2/24/2010	1053	SO	X	X														2	
ATASB-006-6080-FD	ATAsb-006	0-1	2/24/2010	1053	SO	X	X														2	
ATASB-006-5128-SO	ATAsb-006	1-4	2/24/2010	1115	SO	X	X														2	
ATASB-006-5129-SO	ATAsb-006	4-7	2/24/2010	1120	SO	X	X														2	**RUSH 5 day TAT**
ATASB-008-5133-SO	ATAsb-008	0-1	2/24/2010	1230	SO	X	X	X	X	X	X	X									4	
ATASB-008-5134-SO	ATAsb-008	1-4	2/24/2010	1245	SO	X	X	X	X	X	X	X									4	
ATASB-008-5135-SO	ATAsb-008	4-7	2/24/2010	1250	SO	X	X	X	X	X	X	X									4	**RUSH 5 day TAT**
ATASB-009-5137-SO	ATAsb-009	0-1	2/24/2010	1325	SO	X	X														2	
ATASB-009-5138-SO	ATAsb-009	1-4	2/24/2010	1350	SO	X	X														2	
ATASB-009-5139-SO	ATAsb-009	4-7	2/24/2010	1355	SO	X	X														2	**RUSH 5 day TAT**
ATASB-009-6081-FD	ATAsb-009	4-7	2/24/2010	1355	SO	X	X														2	
ATASB-010-5141-SO	ATAsb-010	0-1	2/24/2010	0822	SO	X	X														4	**MS/MSD**
ATASB-010-5142-SO	ATAsb-010	1-4	2/24/2010	0900	SO	X	X														2	
ATASB-010-5143-SO	ATAsb-010	4-7	2/24/2010	0923	SO	X	X														2	**RUSH 5 day TAT**
ATASB-011-5145-SO	ATAsb-011	0-1	2/24/2010	1000	SO	X	X														2	
ATASB-011-5146-SO	ATAsb-011	1-4	2/24/2010	1024	SO	X	X														2	
ATASB-011-5147-SO	ATAsb-011	4-7	2/24/2010	1045	SO	X	X														2	**RUSH 5 day TAT**

Total Number of Containers: 42
Cooler Temperature:
Cooler ID: 1 COOLER +2 BOXES
FEDEX NUMBER: NA

Signature: RSmd	Date: 2/25/10	Received by: Lance Hush	Date: 2-25-10
Printed Name: RichSprinzl	Time: 0930	Signature: LANCE HERSHMAN	Time: 10:20
Company: SAIC		Printed Name: TAN CANTON	
		Company:	
Relinquished by: Lance Hershman	Date: 2/25/10	Received by: Matthew Farrell	Date: 25 FEB 2010
Signature: LANCE HERSHMAN	Time: 11:15	Signature: MAFERREL	Time: 1115
Printed Name: TAN CANTON		Printed Name: TEST AMERICA	
Company:		Company:	

1 6020/7471A
2 8330B
3 3540C/3541/8270C
4 Nitroguanidine:8330 Mod/8332 Mod; Nitrocellulose:9056 Mod/353.2
5 8260B/5021
6 3540C/3541C/8081A
7 3540C/3541C/8082
8 8270C (low level PAHs)
9 600/R-93/116
10 USACE EM1110-2-1906 App II
11 ASTM D5057
12 ASTM D2216
13 EPA 415.1 Mod or SW-846, 9060A Mod or Walkley-Black
14 ASTM D422
15 ASTM D5084/2434

Chain of Custody Record

SAIC
From Science to Solutions
151 Lafayette Drive, Oak Ridge, TN 37831
(865) 481-4600

Science Applications
International Corporation

COC NO.: RVAAP-PBA08RI-016
Date: 2/25/2010

PROJECT NAME: RVAAP PBA2008 17 AOCs RI
PO NUMBER: PO10025302
PROJECT NUMBER: 172819.00.09456.00.9200.02.200
PROJECT MANAGER: Kevin Jago
AOC: Buildings F15 and F16 (Surface Soil)
Sampler (Signature) (Printed Name): Rich Sprinzl

Laboratory Name: TestAmerica
Address: 4101 Shuffel Street NW, North Canton, Ohio 44720
Attn: Mark Loeb
Phone: 330-966-9387

Sample ID	Station ID	Depth (ft)	Date Collected	Time Collected	Matrix	Requested Parameters: TAL Metals + Hg (1)	Explosives (2)	SVOCs (3)	Propellants (4)	VOCs (5)	Pesticides (6)	PCBs (7)	PAHs (8)	Hexavalent Chromium (SO) (9)	Total Chromium (10)	No. of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
F15SS-036M-5427-SO	F15ss-036M	0-1	2/24/2010	1400	SO	X	X						X			1	MI
F15SS-035M-5428-SO	F15ss-035M	0-1	2/24/2010	1200	SO	X	X						X			1	MI
F15SS-035M-6121-FD	F15ss-035M	0-1	2/24/2010	1200	SO	X	X						X			1	MI
F15SS-037M-5429-SO	F15ss-037M	0-1	2/24/2010	1330	SO	X	X						X			2	MI
F15SS-038M-5430-SO	F15ss-038M	0-1	2/24/2010	1230	SO								X			2	MI
F16SS-026M-5431-SO	F16ss-026M	0-1	2/24/2010	1430	SO	X	X	X	X	X	X	X				3	MI
F16SS-027M-5432-SO	F16ss-027M	0-1	2/24/2010	1045	SO	X	X						X			2	MI; MS/MSD
F16SS-028M-5433-SO	F16ss-028M	0-1	2/24/2010	1000	SO								X			1	MI
F16SS-024-5434-SO	F16ss-024	0-1	2/24/2010	0850	SO									X	X	1	
F16SS-025-5435-SO	F16ss-025	0-1	2/24/2010	0915	SO									X	X	1	
F15SS-034-5436-SO	F15ss-034	0-1	2/24/2010	1410	SO									X	X	1	

Total Number of Containers: 16
Cooler ID: 1 COOLER
Cooler Temperature:
FEDEX NUMBER: NA

Signature: Rich Sprinzl	Date: 2/25/10	Received by: Lance Hershman	Date: 2-25-10	
Printed Name: Rich Sprinzl	Time: 0930	Signature: LANCE HERSHMAN	Time: 10:20	
Company: SAIC		Printed Name: TANCANTON		
Relinquished by: Lance Hershman	Date: 2/25/10	Company	Date: 25 FEB 2010	
Signature: LANCE HERSHMAN	Time: 11:15	Received by: Matthew Farrell	Time: 0915 MAF 2/25	
Printed Name: TANCANTON		Signature: MA FERRELL		
Company		Printed Name: TESTAMERICA		
		Company		

1 6020/7471A
2 8330B
3 3540C/3541/8270C
4 Nitroguanidine:8330 Mod/8332 Mod; Nitrocellulose:9056 Mod/EPA 3
5 8260B/5021
6 3540C/3541C/8081A
7 3540C/3541C/8082
8 8270C (low level PAHs)
9 7196
10 6020 (Total Chromium only)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 440250463
North Canton Facility

Client SAIC Project RVAAP By: Matthew Jerry
Cooler Received on 25 FEB 2010 Opened on 25 FEB 2010 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # BACK Multiple Coolers ☒ Foam Box ☐ Client Cooler ☒ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 4 Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other PLASTIC BAG
6. Cooler temperature upon receipt BACK °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 121709-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
177	1.2	IR	WET ICE
184	0.8		

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMS VOLATILE DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B250463

Extraction: XXA15QKWA

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	ATASB-008-5133-SO	102	99	106	99	00
02	ATASB-008-5134-SO	102	99	103	103	00
03	F16SS-026M-5431-SO(VOCS)	108	97	102	99	00
04	METHOD BLK. LV6FR1AA	95	94	99	94	00
05	LCS LV6FR1AC	96	101	101	97	00
06	LCSD LV6FR1AD	90	101	104	94	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(61-130)
SRG02	= Toluene-d8	(85-115)
SRG03	= 4-Bromofluorobenzene	(85-120)
SRG04	= Dibromofluoromethane	(59-138)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AC
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	57	113	65- 135	
Trichloroethene	50	51	102	75- 125	
Benzene	50	51	102	75- 125	
Toluene	50	52	105	70- 125	
Chlorobenzene	50	51	101	75- 125	
Acetone	50	62	125	20- 160	
Bromodichloromethane	50	53	106	70- 130	
Bromoform	50	55	110	55- 135	
Bromomethane	50	51	102	30- 160	
2-Butanone	50	47	93	30- 160	
Bromochloromethane	50	52	104	70- 125	
Carbon disulfide	50	55	109	45- 160	
Carbon tetrachloride	50	67	134	65- 135	
Chloroethane	50	47	94	40- 155	
Chloroform	50	52	104	70- 125	
Chloromethane	50	41	81	50- 130	
1,2-Dibromo-3-chloropropa	50	57	114	40- 135	
1,2-Dibromoethane	50	52	103	70- 125	
1,3-Dichlorobenzene	50	51	103	70- 125	
1,4-Dichlorobenzene	50	49	98	70- 125	
1,2-Dichlorobenzene	50	51	102	75- 120	
Dichlorodifluoromethane	50	35	69	35- 135	
1,1-Dichloroethane	50	54	108	75- 125	
1,2-Dichloroethane	50	51	103	70- 135	
trans-1,2-Dichloroethene	50	56	111	65- 135	
cis-1,2-Dichloroethene	50	53	106	65- 125	
1,2-Dichloropropane	50	50	100	70- 120	
cis-1,3-Dichloropropene	50	50	99	70- 125	
trans-1,3-Dichloropropene	50	50	101	65- 125	
Ethylbenzene	50	55	110	75- 125	
2-Hexanone	50	52	104	45- 145	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AC
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Methylene chloride	50	52	105	55- 140	
4-Methyl-2-pentanone	50	51	101	45- 145	
Naphthalene	50	54	109	40- 125	
Styrene	50	56	111	75- 125	
1,1,1,2-Tetrachloroethane	50	53	107	75- 125	
1,1,2,2-Tetrachloroethane	50	52	103	55- 130	
Tetrachloroethene	50	52	104	65- 140	
1,1,2-Trichloroethane	50	50	101	60- 125	
1,1,1-Trichloroethane	50	58	115	70- 135	
Trichlorofluoromethane	50	61	121	25- 185	
Xylenes (total)	150	170	113	75- 125	
o-Xylene	50	57	115	75- 125	
m-Xylene & p-Xylene	100	110	113	80- 125	
Vinyl chloride	50	47	93	60- 125	
Isopropylbenzene	50	57	114	75- 130	
1,1-Dichloropropene	50	55	110	70- 135	
1,2,3-Trichlorobenzene	50	52	103	60- 135	
1,2,3-Trichloropropane	50	55	111	65- 130	
1,2,4-Trichlorobenzene	50	53	106	65- 130	
2,2-Dichloropropane	50	55	110	65- 135	
2-Chlorotoluene	50	56	112	70- 130	
4-Chlorotoluene	50	55	109	75- 125	
Bromobenzene	50	51	103	65- 120	
Dibromomethane	50	51	102	75- 130	
Hexachlorobutadiene	50	50	100	55- 140	
n-Butylbenzene	50	55	110	65- 140	
n-Propylbenzene	50	55	109	65- 135	
p-Isopropyltoluene	50	55	110	75- 135	
sec-Butylbenzene	50	55	110	65- 130	
tert-Butylbenzene	50	55	111	65- 130	
1,2,4-Trimethylbenzene	50	56	113	65- 135	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AC
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,3,5-Trimethylbenzene	50	55	111	65- 135	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AD
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	56	111	65- 135	
Trichloroethene	50	50	101	75- 125	
Benzene	50	50	100	75- 125	
Toluene	50	53	107	70- 125	
Chlorobenzene	50	51	102	75- 125	
Acetone	50	61	121	20- 160	
Bromodichloromethane	50	51	102	70- 130	
Bromoform	50	52	105	55- 135	
Bromomethane	50	51	102	30- 160	
2-Butanone	50	43	87	30- 160	
Bromochloromethane	50	50	100	70- 125	
Carbon disulfide	50	55	109	45- 160	
Carbon tetrachloride	50	65	131	65- 135	
Chloroethane	50	47	94	40- 155	
Chloroform	50	50	101	70- 125	
Chloromethane	50	41	83	50- 130	
1,2-Dibromo-3-chloropropa	50	52	103	40- 135	
1,2-Dibromoethane	50	51	102	70- 125	
1,3-Dichlorobenzene	50	53	105	70- 125	
1,4-Dichlorobenzene	50	50	99	70- 125	
1,2-Dichlorobenzene	50	52	103	75- 120	
Dichlorodifluoromethane	50	34	67	35- 135	
1,1-Dichloroethane	50	53	107	75- 125	
1,2-Dichloroethane	50	50	99	70- 135	
trans-1,2-Dichloroethene	50	55	109	65- 135	
cis-1,2-Dichloroethene	50	52	104	65- 125	
1,2-Dichloropropane	50	49	99	70- 120	
cis-1,3-Dichloropropene	50	48	95	70- 125	
trans-1,3-Dichloropropene	50	50	100	65- 125	
Ethylbenzene	50	55	110	75- 125	
2-Hexanone	50	48	95	45- 145	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AD
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Methylene chloride	50	52	104	55- 140	
4-Methyl-2-pentanone	50	46	92	45- 145	
Naphthalene	50	52	103	40- 125	
Styrene	50	55	110	75- 125	
1,1,1,2-Tetrachloroethane	50	54	108	75- 125	
1,1,2,2-Tetrachloroethane	50	50	99	55- 130	
Tetrachloroethene	50	52	105	65- 140	
1,1,2-Trichloroethane	50	49	98	60- 125	
1,1,1-Trichloroethane	50	57	114	70- 135	
Trichlorofluoromethane	50	61	122	25- 185	
Xylenes (total)	150	170	114	75- 125	
o-Xylene	50	58	115	75- 125	
m-Xylene & p-Xylene	100	110	113	80- 125	
Vinyl chloride	50	47	94	60- 125	
Isopropylbenzene	50	57	115	75- 130	
1,1-Dichloropropene	50	54	107	70- 135	
1,2,3-Trichlorobenzene	50	52	104	60- 135	
1,2,3-Trichloropropane	50	55	110	65- 130	
1,2,4-Trichlorobenzene	50	56	111	65- 130	
2,2-Dichloropropane	50	54	108	65- 135	
2-Chlorotoluene	50	58	116	70- 130	
4-Chlorotoluene	50	56	113	75- 125	
Bromobenzene	50	53	105	65- 120	
Dibromomethane	50	49	97	75- 130	
Hexachlorobutadiene	50	52	104	55- 140	
n-Butylbenzene	50	57	114	65- 140	
n-Propylbenzene	50	57	115	65- 135	
p-Isopropyltoluene	50	57	114	75- 135	
sec-Butylbenzene	50	57	113	65- 130	
tert-Butylbenzene	50	58	115	65- 130	
1,2,4-Trimethylbenzene	50	58	117	65- 135	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6FR1AD
BATCH: 0060098

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,3,5-Trimethylbenzene	50	57	114	65- 135	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV6FR1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN — SDG Number:

Lab File ID: LV6FR1AA. — Lot Number: A0B250463

Date Analyzed: 02/26/10 — Time Analyzed: 13:41

Matrix: SOLID — Date Extracted:02/26/10

GC Column: DB624 ID: .18 — Extraction Method: 5030B

Instrument ID: UX14 — Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ATASB-008-5133-SO	LV3KQ1AC	148230.D	02/26/10	17:40
02	ATASB-008-5134-SO	LV3KR1AN	148231.D	02/26/10	18:02
03	F16SS-026M-5431-SO(VOCS)	LV3LL1AC	148232.D	02/26/10	18:24
04	CHECK SAMPLE	LV6FR1AC C	LV6FR1AC.	02/26/10	12:36
05	DUPLICATE CHECK	LV6FR1AD L	LV6FR1AD.	02/26/10	12:57
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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25					
26					
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28					
29					
30					

COMMENTS:

FORM IV

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID: BFB14310 BFB Injection Date: 01/14/10

Instrument ID: A3UX14 BFB Injection Time: 1000

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	44.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	84.8
175	5.0 - 9.0% of mass 174	6.0 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	81.7 (96.4)1
177	5.0 - 9.0% of mass 176	5.4 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	147352	01/14/10	1045
02	VSTD100	500NG-IC	147353	01/14/10	1107
03	VSTD050	250NG-IC	147354	01/14/10	1129
04	VSTD020	100NG-IC	147355	01/14/10	1151
05	VSTD010	50NG-IC	147356	01/14/10	1214
06	VSTD005	25NG-IC	147357	01/14/10	1236
07	VSTD002	10NG-IC	147358	01/14/10	1259
08	VSTD001	5NG-IC	147359	01/14/10	1321
09	VSTD200	1000NG-BMIC	147362	01/14/10	1430
10	VSTD100	500NG-BMIC	147363	01/14/10	1453
11	VSTD050	250NG-BMIC	147364	01/14/10	1516
12	VSTD020	100NG-BMIC	147365	01/14/10	1539
13	VSTD010	50NG-BMIC	147366	01/14/10	1603
14	VSTD005	25NG-BMIC	147367	01/14/10	1627
15	VSTD002	10NG-BMIC	147368	01/14/10	1650
16	VSTD001	5NG-BMIC	147369	01/14/10	1714
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID: BFB14339 BFB Injection Date: 02/26/10

Instrument ID: A3UX14 BFB Injection Time: 1048

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	43.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.4 (0.4)1
174	50.0 - 120.0% of mass 95	85.9
175	5.0 - 9.0% of mass 174	6.0 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.1 (96.7)1
177	5.0 - 9.0% of mass 176	5.4 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	148213	02/26/10	1130
02	LV6FRCHK	LV6FR1AC	LV6FR1AC	02/26/10	1236
03	LV6FRCKDUP	LV6FR1AD	LV6FR1AD	02/26/10	1257
04	LV6FRBLK	LV6FR1AA	LV6FR1AA	02/26/10	1341
05	ATASB-008-51	LV3KQ1AC	148230	02/26/10	1740
06	ATASB-008-51	LV3KR1AN	148231	02/26/10	1802
07	F16SS-026M-5	LV3LL1AC	148232	02/26/10	1824
08					
09					
10					
11					
12					
13					
14					
15					
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17					
18					
19					
20					
21					
22					

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID (Standard): 148213 Date Analyzed: 02/26/10

Instrument ID: A3UX14 Time Analyzed: 1130

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

	IS1(CBZ) AREA	#	IS1(CBZ) RT	IS2(DCB) AREA	#	IS2(DCB) RT	IS3 AREA	#	IS3 RT
12 HOUR STD	965181		9.33	531218		11.31	1312011		6.60
UPPER LIMIT	1930362		9.83	1062436		11.81	2624022		7.10
LOWER LIMIT	482591		8.83	265609		10.81	656006		6.10
EPA SAMPLE NO.									
01 LV6FRCHK	949703		9.33	535712		11.31	1286060		6.60
02 LV6FRCKDUP	961680		9.33	524167		11.31	1347350		6.60
03 LV6FRBLK	933757		9.33	498117		11.31	1293874		6.60
04 ATASB-008-51	818941		9.33	382275		11.31	1134746		6.60
05 ATASB-008-51	799475		9.33	391577		11.31	1111936		6.60
06 F16SS-026M-5	671635		9.33	319191		11.31	894279		6.60
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

GC/MS Volatiles

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ1AC **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL
% Moisture.....: 11 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	ND	5.6	ug/kg	0.42
Chlorobenzene	ND	5.6	ug/kg	0.37
Acetone	ND	23	ug/kg	7.1
Benzene	ND	5.6	ug/kg	0.26
Bromochloromethane	ND	5.6	ug/kg	0.80
Bromodichloromethane	ND	5.6	ug/kg	0.32
Bromoform	ND	5.6	ug/kg	0.37
Bromomethane	ND	5.6	ug/kg	0.61
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	ND	5.6	ug/kg	0.50
Dibromochloromethane	ND	5.6	ug/kg	0.62
Chloroethane	ND	5.6	ug/kg	0.97
Chloroform	ND	5.6	ug/kg	0.33
Chloromethane	ND	5.6	ug/kg	0.46
1,2-Dibromoethane	ND	5.6	ug/kg	0.56
1,1-Dichloroethane	ND	5.6	ug/kg	0.41
1,2-Dichloroethane	ND	5.6	ug/kg	0.38
1,1-Dichloroethene	ND	5.6	ug/kg	0.59
1,2-Dichloroethene (total)	ND	5.6	ug/kg	0.87
1,2-Dichloropropane	ND	5.6	ug/kg	0.78
cis-1,3-Dichloropropene	ND	5.6	ug/kg	0.38
trans-1,3-Dichloropropene	ND	5.6	ug/kg	0.61
Ethylbenzene	ND	5.6	ug/kg	0.29
2-Hexanone	ND	23	ug/kg	0.71
Methylene chloride	ND	5.6	ug/kg	0.76
4-Methyl-2-pentanone	ND	23	ug/kg	0.61
Styrene	ND	5.6	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	0.38
Tetrachloroethene	ND	5.6	ug/kg	0.59
Toluene	**0.34 J**	**5.6**	**ug/kg**	**0.30**
1,1,1-Trichloroethane	ND	5.6	ug/kg	0.63
1,1,2-Trichloroethane	ND	5.6	ug/kg	0.44
Trichloroethene	ND	5.6	ug/kg	0.47
Vinyl chloride	ND	5.6	ug/kg	0.44
Xylenes (total)	ND	11	ug/kg	0.76

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

GC/MS Volatiles

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ1AC **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 130)
Toluene-d8	99	(85 - 115)
4-Bromofluorobenzene	106	(85 - 120)
Dibromofluoromethane	99	(59 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148230.D
Report Date: 01-Mar-2010 09:23

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148230.D
Lab Smp Id: LV3KQ1AC Client Smp ID: ATASB-008-5133-SO
Inj Date : 26-FEB-2010 17:40
Operator : 2807 Inst ID: a3ux14.i
Smp Info : LV3KQ1AC,5G/5ML
Misc Info : R00226A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1134746	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.333	(1.000)	818941	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	382275	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	310197	248.126	49.625
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	326065	254.391	50.878
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1094290	246.484	49.297
$ 7 Bromofluorobenzene	95	10.326	10.327	(0.913)	375064	264.606	52.921
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148230.D
Report Date: 01-Mar-2010 09:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	8.149	8.138	(0.873)	7187	1.48584	0.2972
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148230.D
Report Date: 01-Mar-2010 09:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	3040	1.14110	0.2282
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148230.D
Report Date: 01-Mar-2010 09:23

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 148230.D
Lab Smp Id: LV3KQ1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807

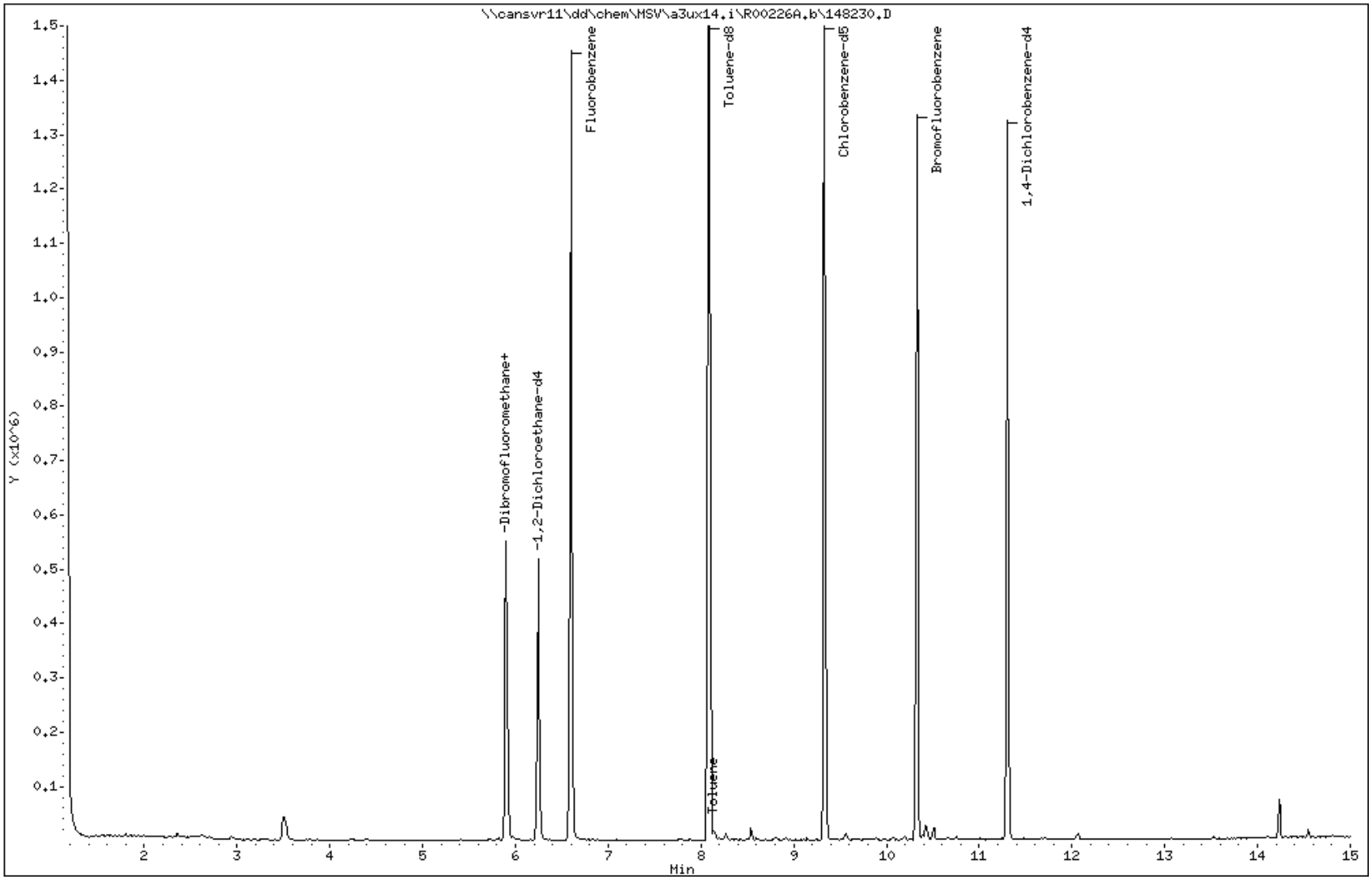
Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Client Smp ID: ATASB-008-5133-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1134746	-13.51
2 Chlorobenzene-d5	965181	482591	1930362	818941	-15.15
3 1,4-Dichlorobenze	531218	265609	1062436	382275	-28.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148230.D
Date : 26-FEB-2010 17:40
Client ID: ATASB-008-5133-SO
Instrument: a3ux14.i
Sample Info: LV3KQ1AC,5G/5ML
Purge Volume: 5.0
Operator: 2807
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148230.D

Date : 26-FEB-2010 17:40

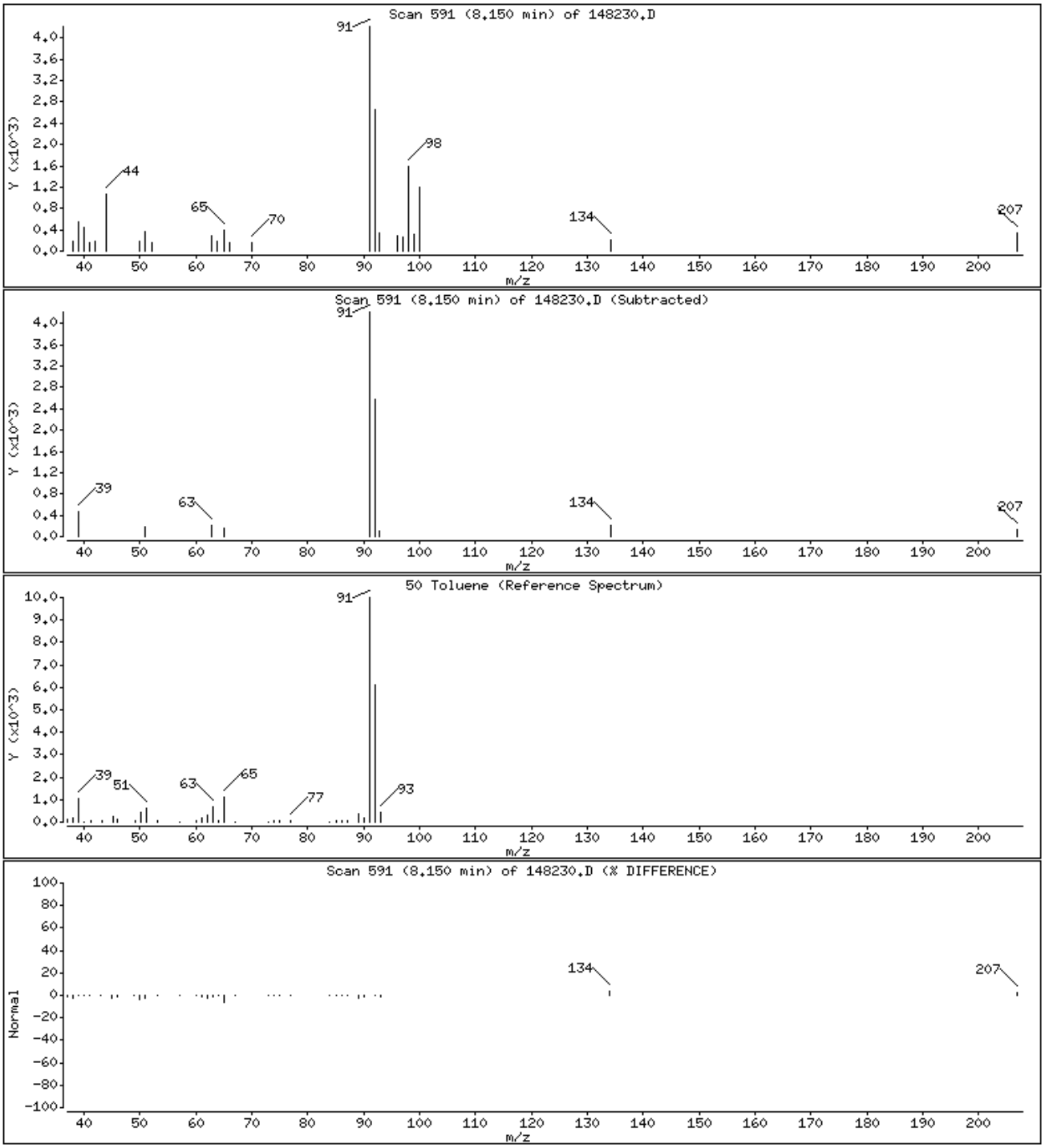
Client ID: ATASB-008-5133-SO | Instrument: a3ux14.i

Sample Info: LV3KQ1AC,5G/5ML

Purge Volume: 5.0 | Operator: 2807

Column phase: DB624 | Column diameter: 0.18

50 Toluene | Concentration: 0.2972 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148230.D

Date : 26-FEB-2010 17:40

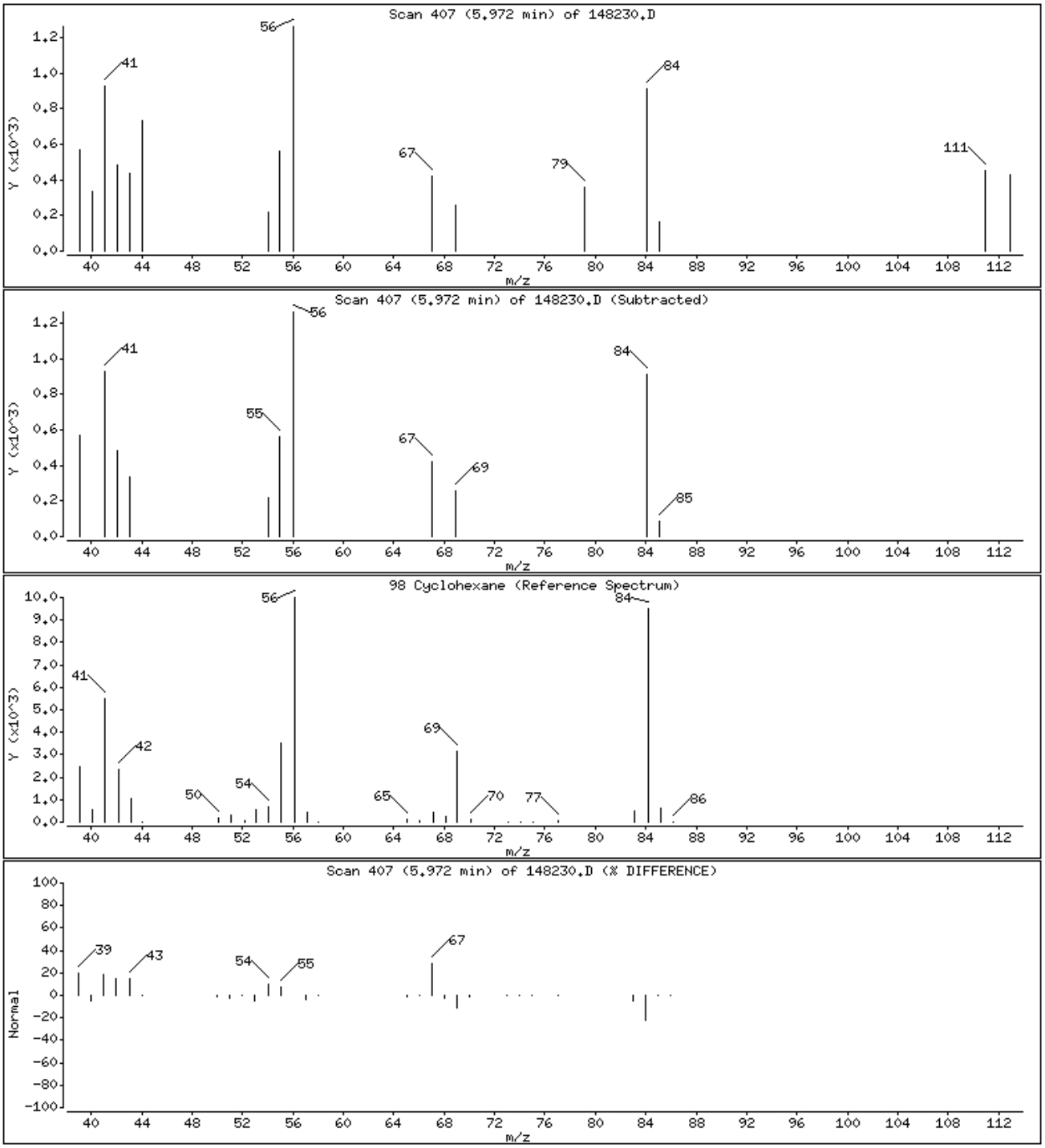
Client ID: ATASB-008-5133-SO Instrument: a3ux14.i

Sample Info: LV3KQ1AC,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

98 Cyclohexane Concentration: 0.2282 UG/KG



Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

GC/MS Volatiles

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR1AN **Matrix.....:** SO
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL
% Moisture.....: 4.8 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	ND	5.3	ug/kg	0.39
Chlorobenzene	ND	5.3	ug/kg	0.35
Acetone	ND	21	ug/kg	6.6
Benzene	ND	5.3	ug/kg	0.24
Bromochloromethane	ND	5.3	ug/kg	0.75
Bromodichloromethane	ND	5.3	ug/kg	0.29
Bromoform	ND	5.3	ug/kg	0.35
Bromomethane	ND	5.3	ug/kg	0.57
2-Butanone	ND	21	ug/kg	1.5
Carbon disulfide	ND	5.3	ug/kg	0.46
Dibromochloromethane	ND	5.3	ug/kg	0.58
Chloroethane	ND	5.3	ug/kg	0.90
Chloroform	ND	5.3	ug/kg	0.30
Chloromethane	ND	5.3	ug/kg	0.43
1,2-Dibromoethane	ND	5.3	ug/kg	0.53
1,1-Dichloroethane	ND	5.3	ug/kg	0.38
1,2-Dichloroethane	ND	5.3	ug/kg	0.36
1,1-Dichloroethene	ND	5.3	ug/kg	0.55
1,2-Dichloroethene (total)	ND	5.3	ug/kg	0.81
1,2-Dichloropropane	ND	5.3	ug/kg	0.73
cis-1,3-Dichloropropene	ND	5.3	ug/kg	0.36
trans-1,3-Dichloropropene	ND	5.3	ug/kg	0.57
Ethylbenzene	ND	5.3	ug/kg	0.27
2-Hexanone	ND	21	ug/kg	0.66
Methylene chloride	ND	5.3	ug/kg	0.70
4-Methyl-2-pentanone	ND	21	ug/kg	0.57
Styrene	ND	5.3	ug/kg	0.16
1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	0.36
Tetrachloroethene	ND	5.3	ug/kg	0.55
Toluene	**0.43 J**	**5.3**	**ug/kg**	**0.28**
1,1,1-Trichloroethane	ND	5.3	ug/kg	0.59
1,1,2-Trichloroethane	ND	5.3	ug/kg	0.41
Trichloroethene	ND	5.3	ug/kg	0.44
Vinyl chloride	ND	5.3	ug/kg	0.41
Xylenes (total)	ND	11	ug/kg	0.70

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

GC/MS Volatiles

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR1AN **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(61 - 130)
Toluene-d8	99	(85 - 115)
4-Bromofluorobenzene	103	(85 - 120)
Dibromofluoromethane	103	(59 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148231.D
Report Date: 01-Mar-2010 09:24

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148231.D
Lab Smp Id: LV3KR1AN Client Smp ID: ATASB-008-5134-SO
Inj Date : 26-FEB-2010 18:02
Operator : 2807 Inst ID: a3ux14.i
Smp Info : LV3KR1AN,5G/5ML
Misc Info : R00226A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1111936	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.333	(1.000)	799475	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	391577	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	314571	256.786	51.357
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	321133	255.683	51.137
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1074304	247.874	49.575
$ 7 Bromofluorobenzene	95	10.326	10.327	(0.913)	374144	257.686	51.537
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148231.D
Report Date: 01-Mar-2010 09:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	8.137	8.138	(0.872)	9680	2.04997	0.4100
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	9.557	9.557	(1.024)	3261	1.61126	0.3222
M	63 Xylenes (total)	106				3261	1.61126	0.3222
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148231.D
Report Date: 01-Mar-2010 09:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.960	5.960	(0.903)	4114	1.57592	0.3152
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148231.D
Report Date: 01-Mar-2010 09:24

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

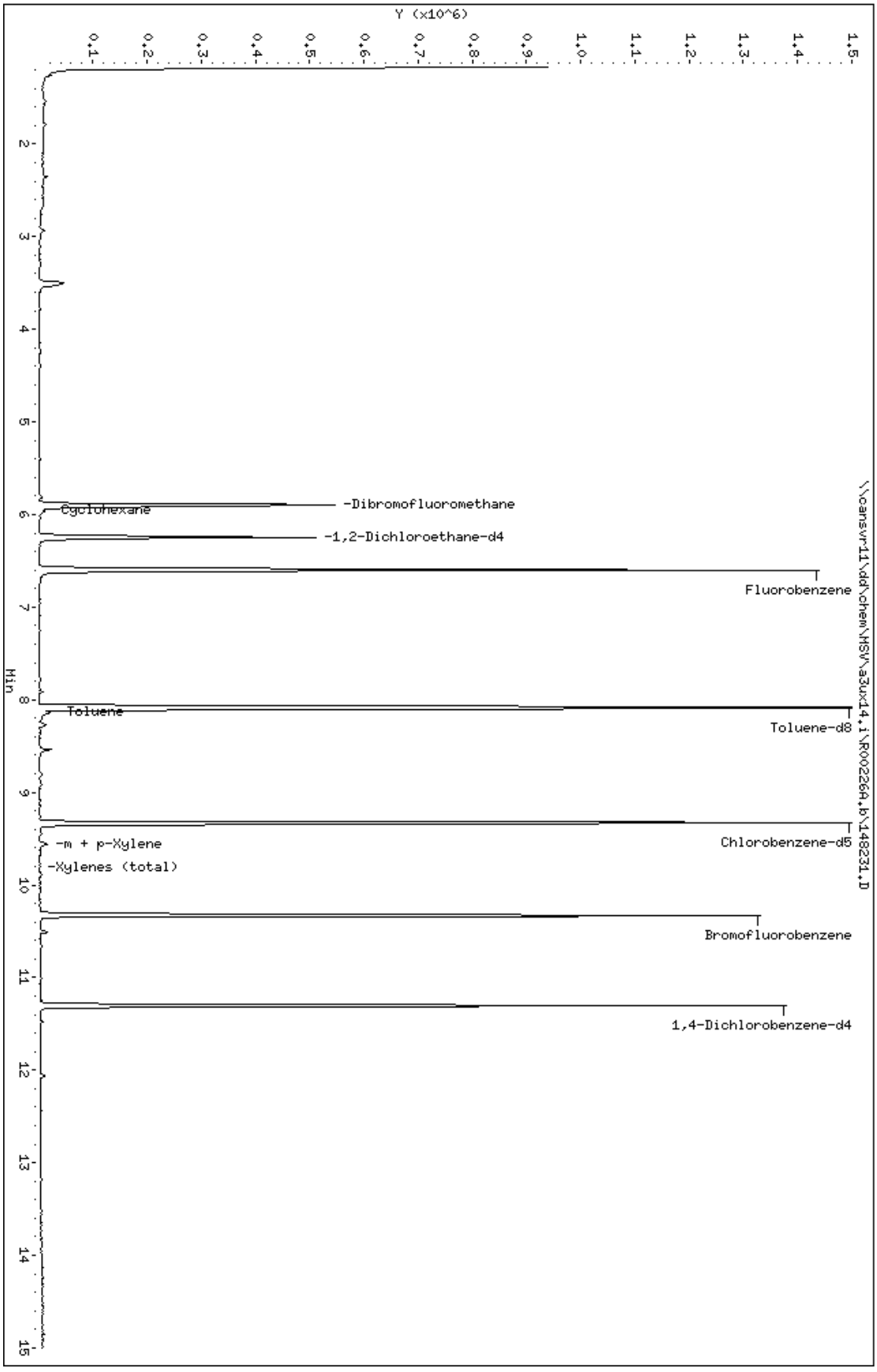
Instrument ID: a3ux14.i
Lab File ID: 148231.D
Lab Smp Id: LV3KR1AN
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Client Smp ID: ATASB-008-5134-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1111936	-15.25
2 Chlorobenzene-d5	965181	482591	1930362	799475	-17.17
3 1,4-Dichlorobenze	531218	265609	1062436	391577	-26.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148231.D
Date : 26-FEB-2010 18:02
Client ID: ATASB-008-5134-SO
Sample Info: LV3KR1AN,5G/5ML
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane
Cyclohexane
-1,2-Dichloroethane-d4
Fluorobenzene
Toluene
Toluene-d8
-m + p-Xylene
-Xylenes (total)
Chlorobenzene-d5
Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148231.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148231.D

Date : 26-FEB-2010 18:02

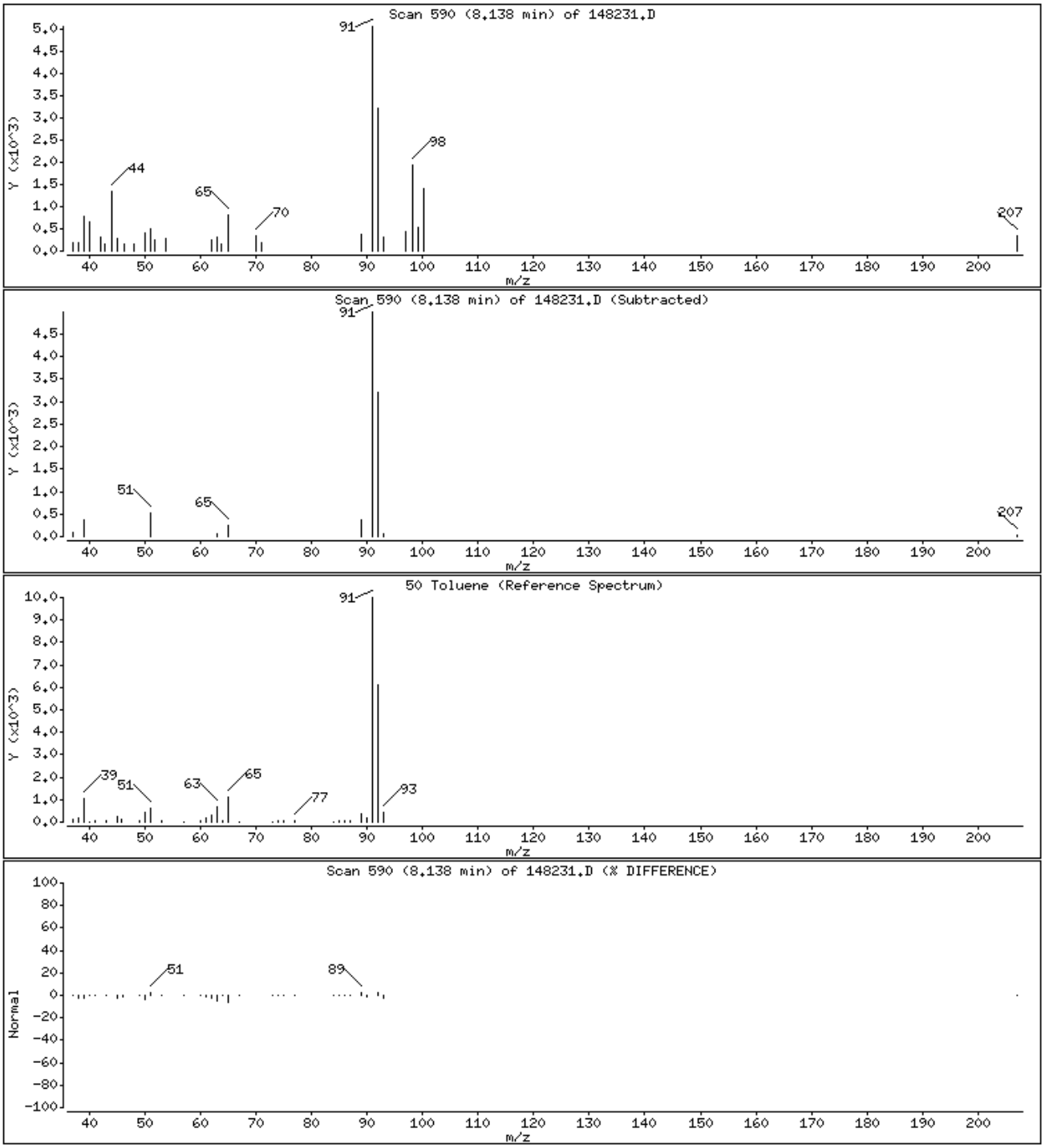
Client ID: ATASB-008-5134-SO | Instrument: a3ux14.i

Sample Info: LV3KR1AN,5G/5ML

Purge Volume: 5.0 | Operator: 2807

Column phase: DB624 | Column diameter: 0.18

50 Toluene | Concentration: 0.4100 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148231.D

Date : 26-FEB-2010 18:02

Client ID: ATASB-008-5134-SO

Instrument: a3ux14.i

Sample Info: LV3KR1AN,5G/5ML

Purge Volume: 5.0

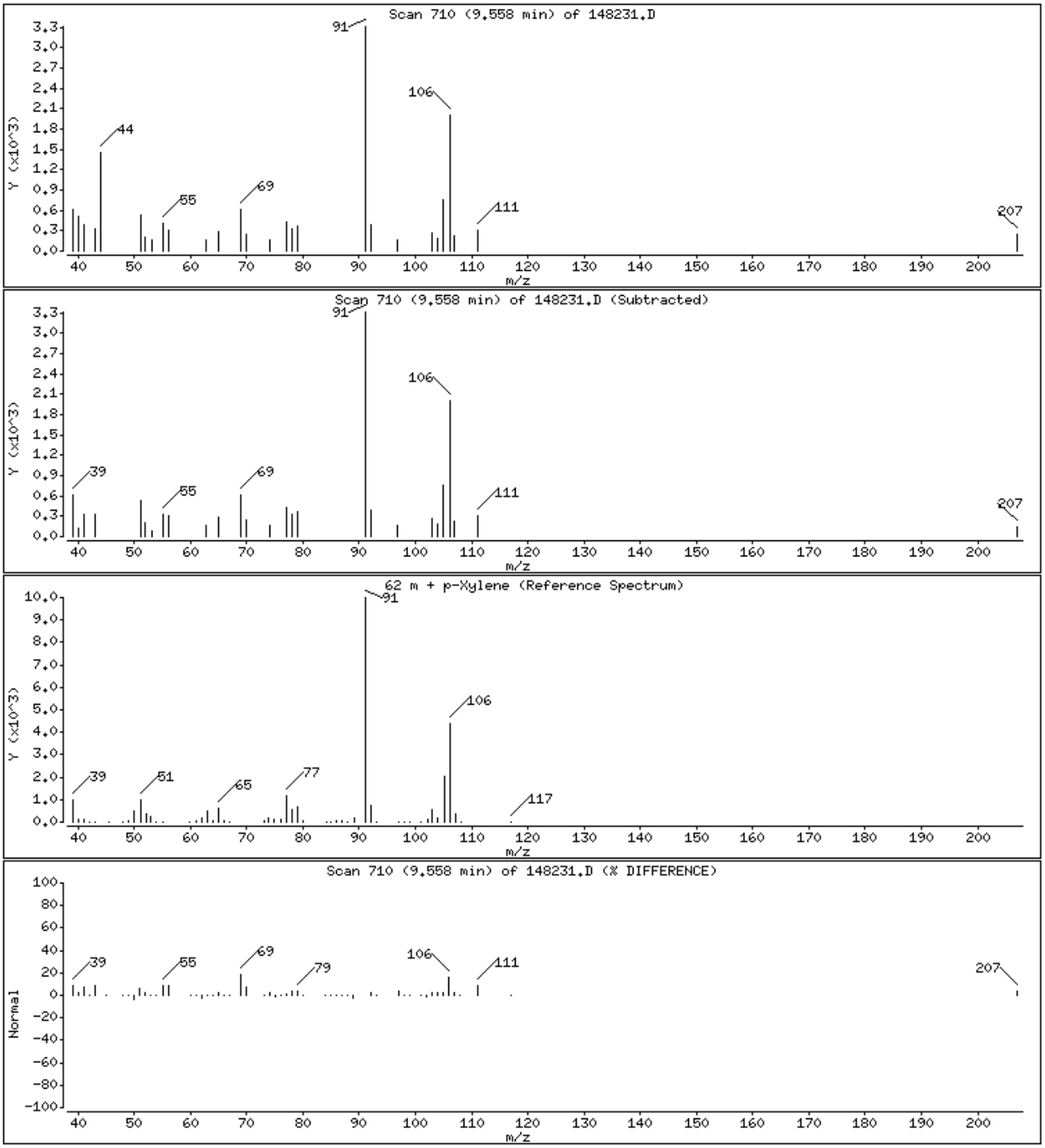
Operator: 2807

Column phase: DB624

Column diameter: 0.18

62 m + p-Xylene

Concentration: 0.3222 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148231.D

Date : 26-FEB-2010 18:02

Client ID: ATASB-008-5134-SO

Instrument: a3ux14.i

Sample Info: LV3KR1AN,5G/5ML

Purge Volume: 5.0

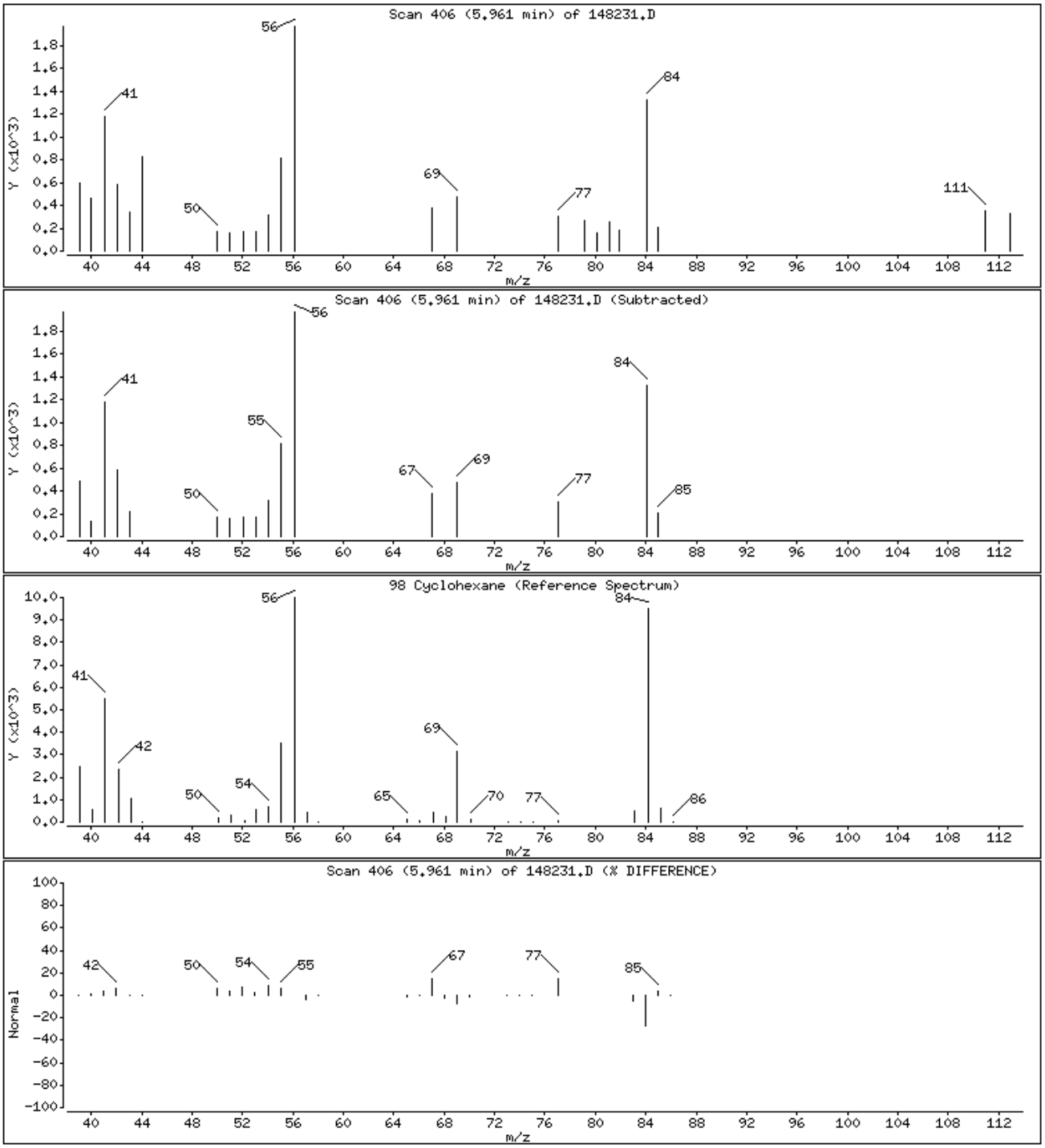
Operator: 2807

Column phase: DB624

Column diameter: 0.18

98 Cyclohexane

Concentration: 0.3152 UG/KG



Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO(VOCS)

GC/MS Volatiles

Lot-Sample #...: A0B250463-019 **Work Order #...:** LV3LL1AC **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL
% Moisture.....: 26 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	ND	6.7	ug/kg	0.50
Chlorobenzene	ND	6.7	ug/kg	0.44
Acetone	ND	27	ug/kg	8.5
Benzene	ND	6.7	ug/kg	0.31
Bromochloromethane	ND	6.7	ug/kg	0.95
Bromodichloromethane	ND	6.7	ug/kg	0.38
Bromoform	ND	6.7	ug/kg	0.44
Bromomethane	ND	6.7	ug/kg	0.73
2-Butanone	ND	27	ug/kg	1.9
Carbon disulfide	ND	6.7	ug/kg	0.59
Dibromochloromethane	ND	6.7	ug/kg	0.74
Chloroethane	ND	6.7	ug/kg	1.2
Chloroform	**0.68 J**	**6.7**	**ug/kg**	**0.39**
Chloromethane	ND	6.7	ug/kg	0.55
1,2-Dibromoethane	ND	6.7	ug/kg	0.67
1,1-Dichloroethane	ND	6.7	ug/kg	0.48
1,2-Dichloroethane	ND	6.7	ug/kg	0.46
1,1-Dichloroethene	ND	6.7	ug/kg	0.70
1,2-Dichloroethene (total)	ND	6.7	ug/kg	1.0
1,2-Dichloropropane	ND	6.7	ug/kg	0.93
cis-1,3-Dichloropropene	ND	6.7	ug/kg	0.46
trans-1,3-Dichloropropene	ND	6.7	ug/kg	0.73
Ethylbenzene	ND	6.7	ug/kg	0.35
2-Hexanone	ND	27	ug/kg	0.85
Methylene chloride	ND	6.7	ug/kg	0.90
4-Methyl-2-pentanone	ND	27	ug/kg	0.73
Styrene	ND	6.7	ug/kg	0.20
1,1,2,2-Tetrachloroethane	ND	6.7	ug/kg	0.46
Tetrachloroethene	ND	6.7	ug/kg	0.70
Toluene	ND	6.7	ug/kg	0.36
1,1,1-Trichloroethane	ND	6.7	ug/kg	0.75
1,1,2-Trichloroethane	ND	6.7	ug/kg	0.52
Trichloroethene	ND	6.7	ug/kg	0.56
Vinyl chloride	ND	6.7	ug/kg	0.52
Xylenes (total)	ND	13	ug/kg	0.90

(Continued on next page)

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO(VOCS)

GC/MS Volatiles

Lot-Sample #...: A0B250463-019 **Work Order #...:** LV3LL1AC **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(61 - 130)
Toluene-d8	97	(85 - 115)
4-Bromofluorobenzene	102	(85 - 120)
Dibromofluoromethane	99	(59 - 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148232.D
Report Date: 01-Mar-2010 09:24

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148232.D
Lab Smp Id: LV3LL1AC Client Smp ID: F16SS-026M-5431-SO(
Inj Date : 26-FEB-2010 18:24
Operator : 2807 Inst ID: a3ux14.i
Smp Info : LV3LL1AC,5G/5ML
Misc Info : R00226A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1	Fluorobenzene	96	6.599	6.599	(1.000)	894279	250.000	
* 2	Chlorobenzene-d5	117	9.333	9.333	(1.000)	671635	250.000	
* 3	1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	319191	250.000	
$ 4	Dibromofluoromethane	113	5.901	5.901	(0.894)	244952	248.623	49.724
$ 5	1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	273641	270.898	54.180
$ 6	Toluene-d8	98	8.090	8.090	(0.867)	881379	242.068	48.414
$ 7	Bromofluorobenzene	95	10.327	10.327	(0.913)	301228	254.516	50.903
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	Compound Not Detected.					
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Freon-113	151	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148232.D
Report Date: 01-Mar-2010 09:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	5.724	5.724	(0.867)	4139	2.54324	0.5086
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	8.138	8.138	(0.872)	5040	1.27050	0.2541
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148232.D
Report Date: 01-Mar-2010 09:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.960	5.960	(0.903)	1870	0.89067	0.1781
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148232.D
Report Date: 01-Mar-2010 09:24

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 148232.D
Lab Smp Id: LV3LL1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Client Smp ID: F16SS-026M-5431-SO(
Level: LOW
Sample Type: SOIL

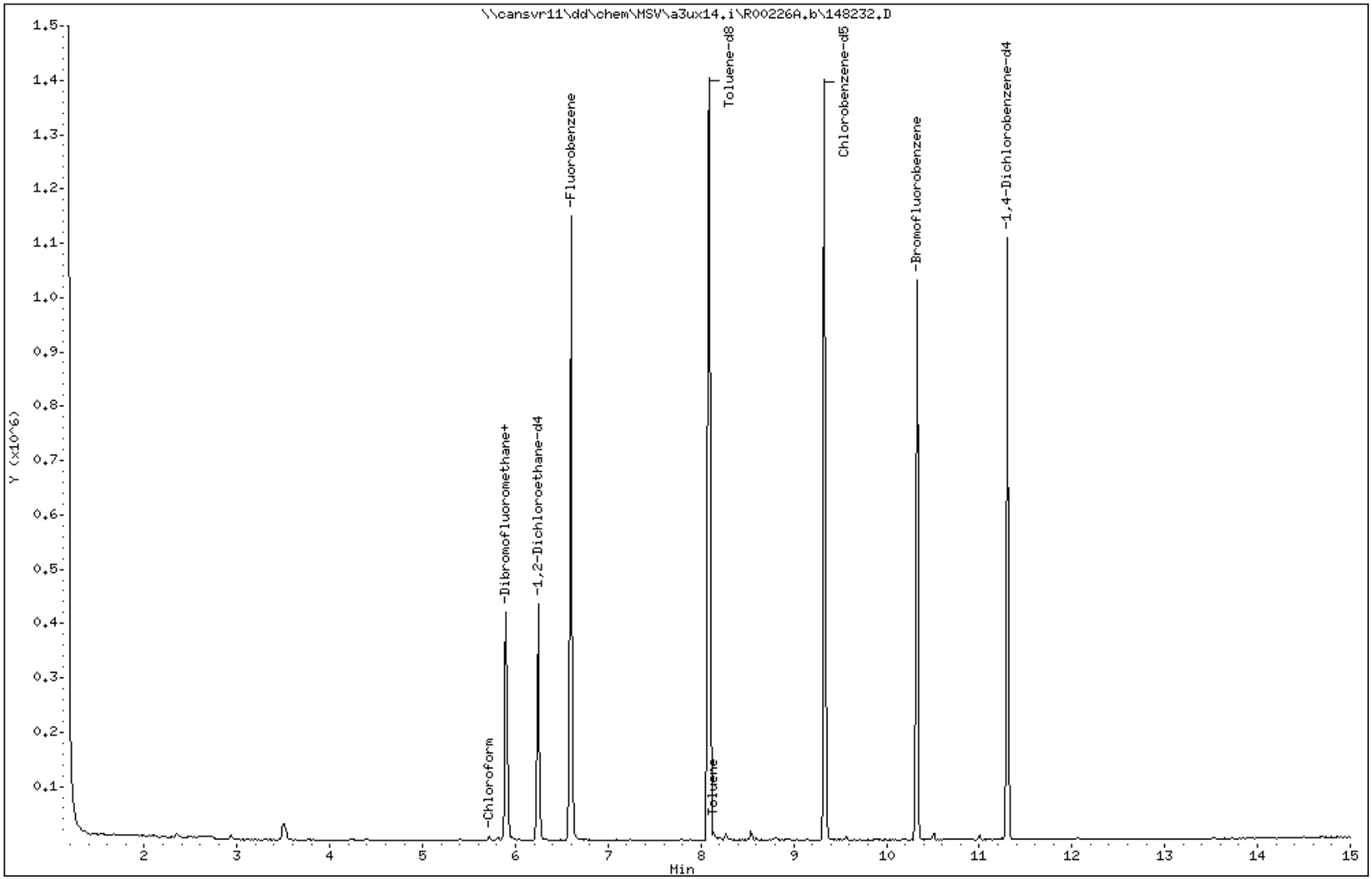
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	894279	-31.84
2 Chlorobenzene-d5	965181	482591	1930362	671635	-30.41
3 1,4-Dichlorobenze	531218	265609	1062436	319191	-39.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148232.D
Date : 26-FEB-2010 18:24
Client ID: F16SS-026M-5431-SO(
Sample Info: LV3LL1AC,5G/5ML
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148232.D

Date : 26-FEB-2010 18:24

Client ID: F16SS-026M-5431-SO(

Instrument: a3ux14.i

Sample Info: LV3LL1AC,5G/5ML

Purge Volume: 5.0

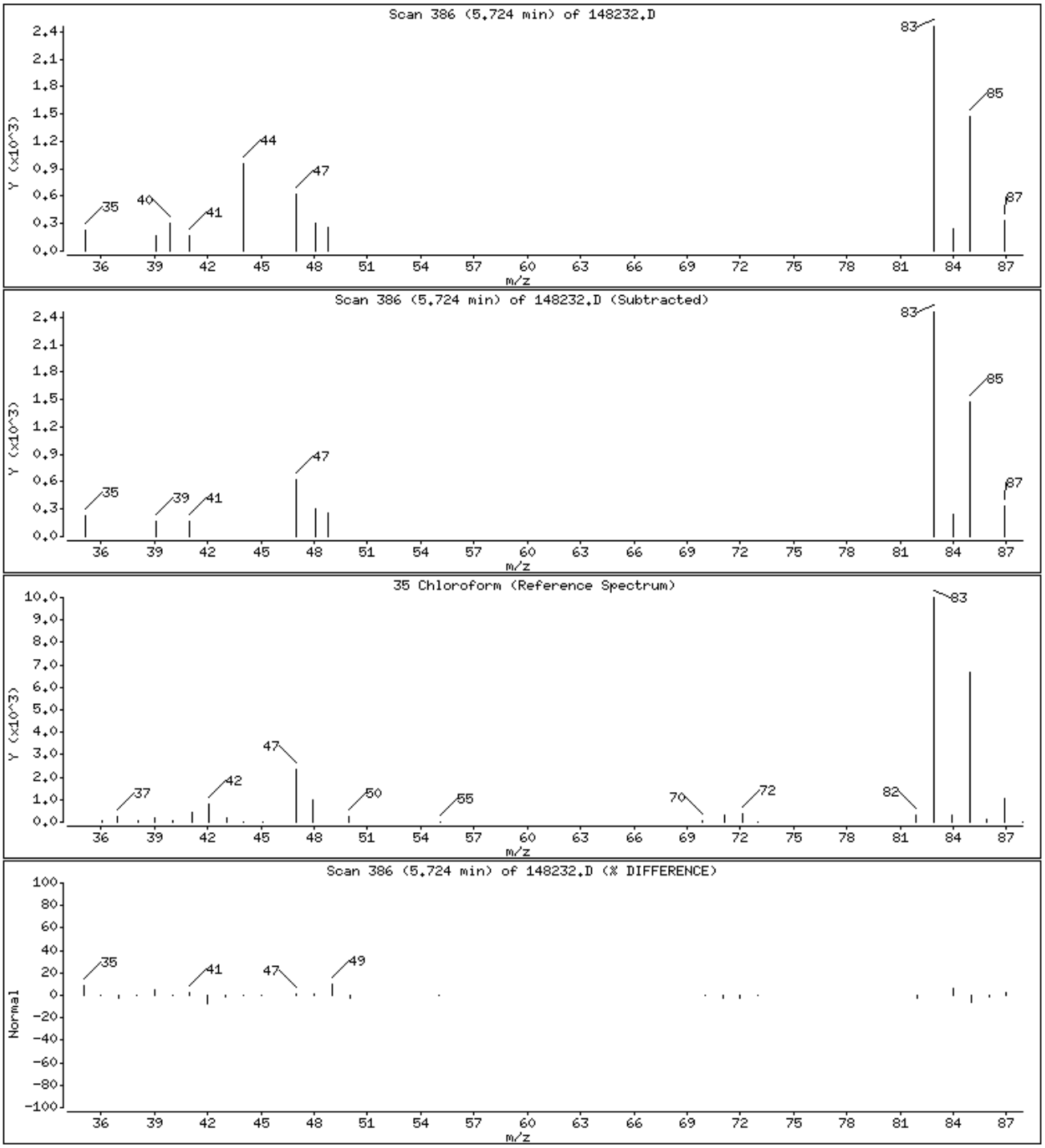
Operator: 2807

Column phase: DB624

Column diameter: 0.18

35 Chloroform

Concentration: 0.5086 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148232.D

Date : 26-FEB-2010 18:24

Client ID: F16SS-026M-5431-SO(

Instrument: a3ux14.i

Sample Info: LV3LL1AC,5G/5ML

Purge Volume: 5.0

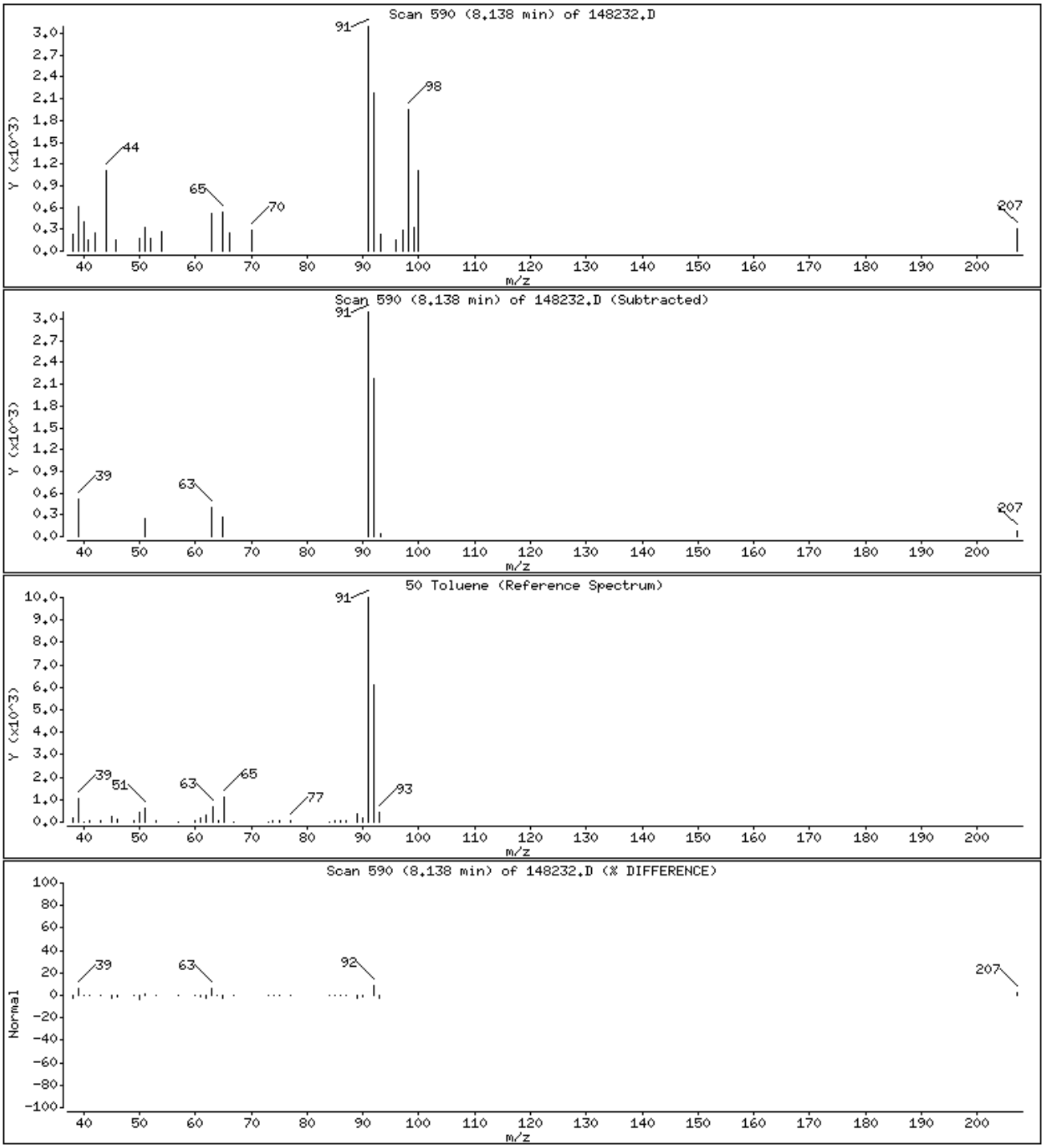
Operator: 2807

Column phase: DB624

Column diameter: 0.18

50 Toluene

Concentration: 0.2541 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148232.D

Date : 26-FEB-2010 18:24

Client ID: F16SS-026M-5431-SO(

Instrument: a3ux14.i

Sample Info: LV3LL1AC,5G/5ML

Purge Volume: 5.0

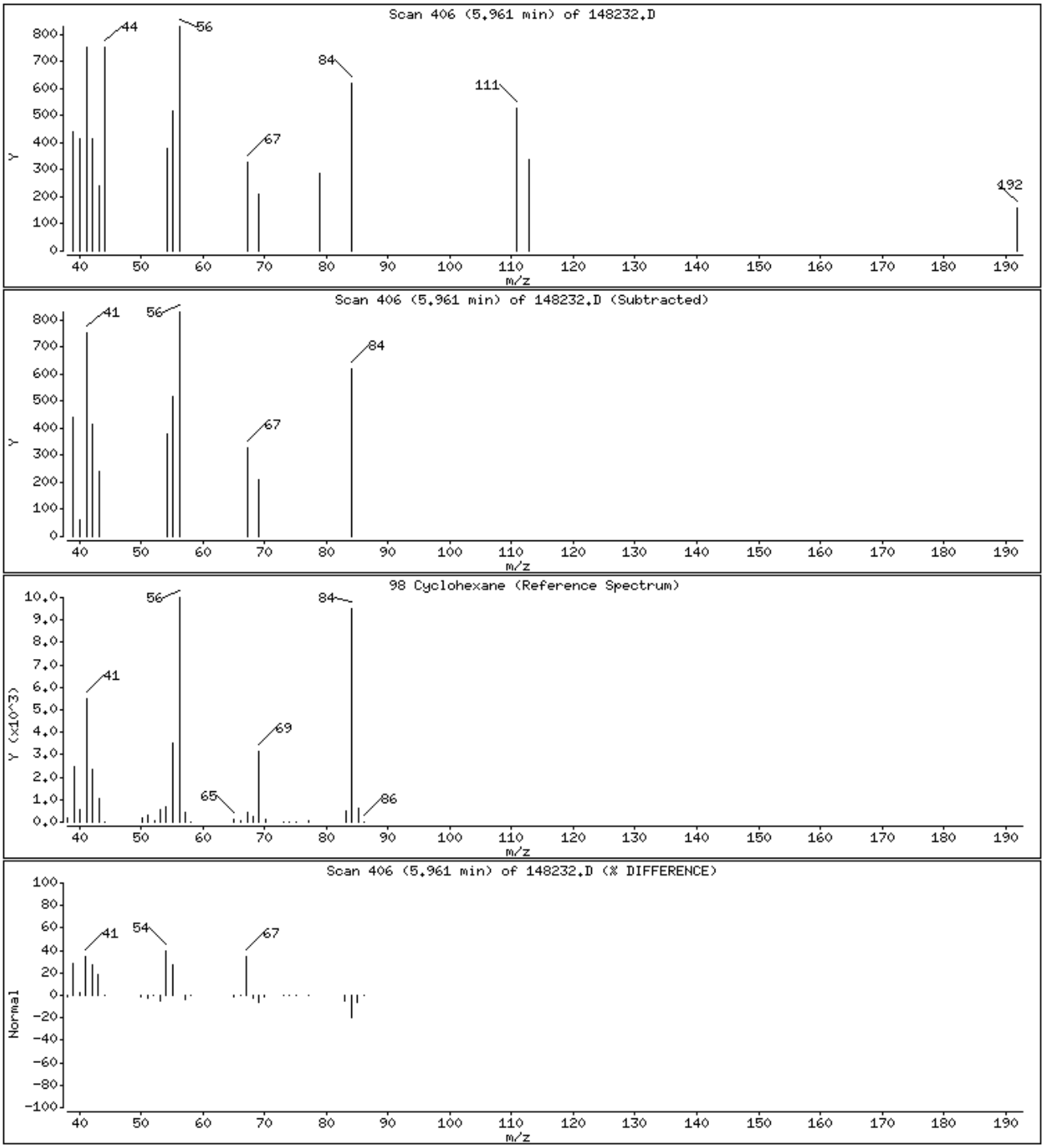
Operator: 2807

Column phase: DB624

Column diameter: 0.18

98 Cyclohexane

Concentration: 0.1781 UG/KG



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 15-Jan-2010 11:27

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Start Cal Date: 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
14-JAN-2010 17:14	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
08-JAN-2010 18:18	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147289.D
14-JAN-2010 13:21	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Cal Level: 2 , Cal Amount: 10.00000		
14-JAN-2010 16:50	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
08-JAN-2010 17:55	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147288.D
14-JAN-2010 12:59	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Cal Level: 3 , Cal Amount: 25.00000		
14-JAN-2010 16:27	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
08-JAN-2010 17:33	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147287.D
14-JAN-2010 12:36	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Cal Level: 4 , Cal Amount: 50.00000		
14-JAN-2010 16:03	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
08-JAN-2010 17:11	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147286.D
14-JAN-2010 12:14	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Cal Level: 5 , Cal Amount: 100.00000		
14-JAN-2010 15:39	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
08-JAN-2010 16:49	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147285.D

14-JAN-2010 11:51	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D		

Cal Level: 6 , Cal Amount: 250.00000		
14-JAN-2010 15:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D		
08-JAN-2010 16:27	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147284.D		
14-JAN-2010 11:29	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D		

Cal Level: 7 , Cal Amount: 500.00000		
14-JAN-2010 14:53	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D		
08-JAN-2010 16:06	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147283.D		
14-JAN-2010 11:07	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D		

Cal Level: 8 , Cal Amount: 1000.00000		
14-JAN-2010 14:30	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D		
08-JAN-2010 15:44	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147282.D		
14-JAN-2010 10:45	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

14-JAN-2010 11:29	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D		
14-JAN-2010 14:07	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147361.D		
14-JAN-2010 15:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D		
~~14-JAN-2010 14:07~~	~~3-IX~~	
~~\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147361.D~~		

2-15-10

Report Date : 15-Jan-2010 11:21

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Level 8: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
8 Dichlorodifluoromethane	0.24512	0.22637	0.29312	0.26584	0.25836	0.22478		
	0.25377	0.25550					0.25286	8.687
9 Chloromethane	0.42760	0.36493	0.38632	0.37473	0.35555	0.33446		
	0.34515	0.33569					0.36556	8.489
10 Vinyl Chloride	0.26549	0.28334	0.29549	0.28345	0.28191	0.26248		
	0.26455	0.26910					0.27573	4.325
11 Bromomethane	0.16671	0.14740	0.14735	0.11780	0.13810	0.12513		
	0.12079	0.11372					0.13462	13.663
12 Chloroethane	0.19677	0.17979	0.17143	0.16587	0.15197	0.14043		
	0.13197	+++++					0.16260	13.966
13 Trichlorofluoromethane	0.23047	0.24528	0.27583	0.28521	0.27605	0.25898		
	0.27441	0.27809					0.26554	7.149
14 Dichlorofluoromethane	0.29538	0.25019	0.29271	0.24864	0.26333	0.25614		
	0.21871	0.22084					0.25574	11.125
15 Acrolein	0.03500	0.03646	0.03273	0.03061	0.03485	0.02713		
	0.03125	0.02333					0.03142	14.040

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Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
16 Acetone	+++++	+++++	0.15676	0.12459	0.10681	0.08897		
	0.08404	0.07046					0.10527	29.902
17 1,1-Dichloroethene	0.25543	0.22821	0.24875	0.24244	0.24031	0.22889		
	0.23230	0.23451					0.23886	4.072
18 Freon-113	0.15989	0.18326	0.19650	0.20474	0.19956	0.19157		
	0.19670	0.20241					0.19183	7.574
19 Iodomethane	0.41190	0.41853	0.41379	0.41730	0.39941	0.39424		
	0.39593	0.40575					0.40711	2.373
20 Carbon Disulfide	0.61213	0.67218	0.68222	0.69759	0.67790	0.68612		
	0.70728	0.73775					0.68415	5.231
21 Methylene Chloride	+++++	+++++	0.45689	0.37446	0.31259	0.26822		
	0.25845	0.25237					0.32050	25.272
22 Acetonitrile	+++++	0.04002	0.03499	0.03418	0.03425	0.03141		
	0.03048	0.02681					0.03316	12.507
23 Acrylonitrile	0.09873	0.10132	0.09529	0.10049	0.10769	0.09823		
	0.09751	0.08789					0.09839	5.703
24 Methyl tert-butyl ether	0.53105	0.56003	0.58859	0.63771	0.65588	0.66764		
	0.67729	0.64640					0.62058	8.687
25 trans-1,2-Dichloroethene	0.30298	0.27861	0.28146	0.28115	0.27412	0.26566		
	0.26968	0.26535					0.27738	4.394
26 Hexane	0.06818	0.05919	0.06347	0.06206	0.06340	0.06360		
	0.06492	0.06727					0.06401	4.446

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Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	500.000 Level 7	1000.000 Level 8	RRF	% RSD
27 Vinyl acetate	0.27857	0.26576	0.27708	0.30336	0.33467	0.36377	0.36959	0.36730	0.32001	13.777
154 Vinyl Acetate**2nd**	+++++	+++++	0.02226	0.02595	0.02824	0.03177	0.03104	0.03181	0.02851	13.450
28 1,1-Dichloroethane	0.47614	0.50016	0.51634	0.50469	0.49915	0.48570	0.49304	0.49547	0.49634	2.438
29 tert-Butyl Alcohol	0.02185	0.02007	0.02067	0.02240	0.02417	0.02556	0.02534	0.02084	0.02261	9.533
30 2-Butanone	0.15894	0.13321	0.11448	0.12355	0.12907	0.12850	0.12419	0.11292	0.12811	11.158
M 31 1,2-Dichloroethene (total)	0.28719	0.27849	0.28402	0.28809	0.28260	0.27376	0.27838	0.27381	0.28079	1.983
32 cis-1,2-dichloroethene	0.27139	0.27837	0.28658	0.29502	0.29109	0.28186	0.28707	0.28227	0.28421	2.612
33 2,2-Dichloropropane	0.18179	0.17671	0.18243	0.19872	0.19625	0.20171	0.20572	0.21025	0.19420	6.366
34 Bromochloromethane	0.15515	0.13795	0.13821	0.13906	0.13595	0.13450	0.13437	0.12992	0.13814	5.405
35 Chloroform	0.47045	0.44710	0.45697	0.46723	0.45483	0.44638	0.44744	0.44930	0.45496	2.066
36 Tetrahydrofuran	+++++	0.09325	0.08510	0.08056	0.08038	0.08218	0.08397	0.07542	0.08298	6.626

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Curve Type : Average

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	500.000 Level 7	1000.000 Level 8							
37 1,1,1-Trichloroethane	0.29588	0.31020	0.31886	0.35046	0.32864	0.34089			
	0.33660	0.35024					0.32897	5.930	
38 1,1-Dichloropropene	0.28692	0.30509	0.35013	0.35883	0.35804	0.35895			
	0.36427	0.37757					0.34497	9.154	
39 Carbon Tetrachloride	0.22410	0.27735	0.28113	0.30513	0.29106	0.29754			
	0.30178	0.30933					0.28593	9.577	
40 1,2-Dichloroethane	0.35141	0.32766	0.35354	0.33131	0.34294	0.33764			
	0.32608	0.32325					0.33673	3.450	
41 Benzene	1.08331	1.12270	1.09023	1.09541	1.05254	1.05927			
	1.06113	1.08007					1.08058	2.132	
42 Trichloroethene	0.29034	0.30732	0.29234	0.30670	0.29195	0.29551			
	0.29506	0.30332					0.29782	2.315	
43 1,2-Dichloropropane	0.25237	0.26526	0.26978	0.27227	0.27169	0.28057			
	0.27194	0.28181					0.27071	3.398	
44 1,4-Dioxane	0.00189	0.00177	0.00208	0.00233	0.00255	0.00261			
	0.00244	0.00220					0.00223	13.733	<-
45 Dibromomethane	0.15115	0.12624	0.14050	0.13878	0.13553	0.14251			
	0.13416	0.13402					0.13786	5.307	
46 Bromodichloromethane	0.24738	0.25905	0.26074	0.28159	0.28408	0.29465			
	0.29899	0.30915					0.27945	7.788	
47 2-Chloroethyl vinyl ether	0.06646	0.07261	0.08107	0.09513	0.11034	0.13041			
	0.12583	0.13323					0.10188	26.316	

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Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
48 cis-1,3-Dichloropropene	+++++	+++++	0.27586	0.31639	0.33554	0.37475		
	0.36803	0.39164					0.34370	12.528
49 4-Methyl-2-pentanone	+++++	0.23984	0.25432	0.28947	0.33068	0.34275		
	0.34389	0.31238					0.30190	13.949
50 Toluene	1.38045	1.38434	1.45659	1.46607	1.47019	1.53313		
	1.52477	1.59727					1.47660	5.015
51 trans-1,3-Dichloropropene	+++++	+++++	0.31461	0.34297	0.36832	0.42993		
	0.42615	0.44640					0.38806	13.841
52 Ethyl Methacrylate	0.21587	0.21635	0.25597	0.28150	0.32668	0.38676		
	0.38948	0.38737					0.30750	24.518
53 1,1,2-Trichloroethane	0.27652	0.24754	0.27102	0.24977	0.26690	0.27474		
	0.25968	0.26111					0.26341	4.127
54 1,3-Dichloropropane	0.41224	0.41925	0.43850	0.43824	0.44711	0.47052		
	0.45056	0.45409					0.44131	4.269
55 Tetrachloroethene	0.29512	0.30909	0.32584	0.31806	0.30660	0.30873		
	0.31207	0.31840					0.31174	2.975
56 2-Hexanone	+++++	0.16511	0.17438	0.19153	0.22577	0.24702		
	0.23340	0.21874					0.20799	15.000
57 Dibromochloromethane	0.22968	0.23431	0.24259	0.27396	0.28218	0.30742		
	0.30938	0.32011					0.27496	13.099
58 1,2-Dibromoethane	0.26779	0.22456	0.23888	0.24547	0.26368	0.26991		
	0.26339	0.26091					0.25432	6.376

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Curve Type : Average

	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
		500.000 Level 7	1000.000 Level 8						
	59 Chlorobenzene	1.07406	1.02899	1.00247	1.00614	0.99359	1.00884		
		0.98994	1.01551					1.01494	2.645
	60 1,1,1,2-Tetrachloroethane	0.28131	0.31373	0.30846	0.32857	0.33095	0.33565		
		0.33775	0.33875					0.32190	6.153
	61 Ethylbenzene	0.43458	0.49215	0.49804	0.53582	0.53723	0.56295		
		0.55878	0.56543					0.52312	8.681
	62 m + p-Xylene	0.51104	0.56573	0.62070	0.66725	0.66450	0.68289		
		0.67052	0.68039					0.63288	9.968
M	63 Xylenes (total)	0.51222	0.55693	0.60257	0.65173	0.65226	0.67007		
		0.65695	0.66280					0.62069	9.364
	64 Xylene-o	0.51458	0.53931	0.56631	0.62069	0.62779	0.64442		
		0.62980	0.62764					0.59632	8.223
	65 Styrene	+++++	0.71838	0.83322	0.92205	0.99485	1.05417		
		1.05543	1.05710					0.94789	13.855
	66 Bromoform	0.13896	0.14466	0.14074	0.16038	0.16891	0.18971		
		0.19284	0.19554					0.16647	14.392
	67 Isopropylbenzene	+++++	1.23184	1.49697	1.62185	1.67385	1.68068		
		1.73640	1.76109					1.60039	11.498
	68 1,1,2,2-Tetrachloroethane	0.57457	0.61928	0.57194	0.60385	0.62132	0.66412		
		0.63399	0.61696					0.61326	4.940
	69 1,4-Dichloro-2-butene	0.17621	0.16924	0.15831	0.18452	0.19355	0.21511		
		0.21145	0.21377					0.19027	11.451

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Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
70 1,2,3-Trichloropropane	0.17170	0.18316	0.17169	0.17403	0.17560	0.19019		
	0.17989	0.17552					0.17772	3.593
71 Bromobenzene	0.70970	0.71617	0.70245	0.71703	0.73838	0.77342		
	0.75106	0.78042					0.73608	4.036
72 n-Propylbenzene	+++++	+++++	0.72777	0.79541	0.85317	0.90389		
	0.89536	0.95944					0.85584	9.729
73 2-Chlorotoluene	0.55746	0.60105	0.67157	0.70880	0.74867	0.75615		
	0.74480	0.78166					0.69627	11.526
74 1,3,5-Trimethylbenzene	+++++	1.71952	2.11358	2.35330	2.50416	2.56582		
	2.57516	2.76084					2.37034	14.819
75 4-Chlorotoluene	0.63259	0.65758	0.73077	0.75635	0.76530	0.78784		
	0.75676	0.79422					0.73518	8.071
76 tert-Butylbenzene	+++++	1.65508	1.96567	2.13250	2.25770	2.39270		
	2.40302	2.55722					2.19484	13.987
77 1,2,4-Trimethylbenzene	+++++	1.73397	2.21612	2.42169	2.52345	2.60369		
	2.61878	2.81885					2.41951	14.664
78 sec-Butylbenzene	+++++	2.27366	2.94181	3.10114	3.21818	3.36225		
	3.48658	3.71171					3.15647	14.701
79 4-Isopropyltoluene	+++++	+++++	2.29990	2.48976	2.64117	2.77039		
	2.84030	3.05466					2.68270	9.952
80 1,3-Dichlorobenzene	1.39760	1.39536	1.36910	1.36814	1.38576	1.39827		
	1.39966	1.46646					1.39754	2.193

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	500.000 Level 7	1000.000 Level 8							
81 1,4-Dichlorobenzene	1.74236	1.47939	1.48759	1.42762	1.43281	1.41997			
	1.39725	1.47392					1.48261	7.402	
82 n-Butylbenzene	+++++	+++++	1.99169	2.14846	2.23892	2.41147			
	2.49525	2.68071					2.32775	10.742	
83 1,2-Dichlorobenzene	1.33193	1.33879	1.32606	1.29282	1.30517	1.28114			
	1.28168	1.31017					1.30847	1.709	
84 1,2-Dibromo-3-chloropropane	+++++	0.09136	0.09272	0.10001	0.10606	0.11309			
	0.11941	0.11819					0.10583	10.943	
85 1,2,4-Trichlorobenzene	0.73556	0.75799	0.76530	0.83332	0.85618	0.90598			
	0.94965	0.97001					0.84675	10.604	
86 Hexachlorobutadiene	0.51656	0.52155	0.51347	0.51454	0.54954	0.54564			
	0.58146	0.59957					0.54279	6.058	
87 Naphthalene	+++++	+++++	1.45699	1.76735	2.01575	2.11579			
	2.19283	2.14381					1.94875	14.600	
88 1,2,3-Trichlorobenzene	0.79204	0.77832	0.75896	0.81610	0.88582	0.87696			
	0.87713	0.88742					0.83409	6.417	
89 Ethyl Ether	0.22485	0.20658	0.21102	0.21793	0.21062	0.20849			
	0.20188	0.19532					0.20958	4.339	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
91 3-Chloropropene	0.12004	0.11312	0.13322	0.12820	0.13044	0.13849			
	0.13535	0.14033					0.12990	7.160	

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	500.000 Level 7	1000.000 Level 8							
92 Isopropyl Ether	0.18891	0.18586	0.22686	0.24347	0.23727	0.23925			
	0.23203	0.22237					0.22200	10.097	
93 2-Chloro-1,3-butadiene	0.27829	0.25023	0.31281	0.33396	0.33597	0.36927			
	0.37475	0.39179					0.33088	14.780	
94 Propionitrile	0.04323	0.03827	0.03760	0.04128	0.04063	0.03981			
	0.03976	0.03448					0.03938	6.701	
95 Ethyl Acetate	0.22895	0.24226	0.24941	0.26510	0.26947	0.27468			
	0.29210	0.25422					0.25952	7.685	
96 Methacrylonitrile	0.09735	0.07350	0.08675	0.09490	0.09528	0.09838			
	0.10169	0.09061					0.09231	9.631	
97 Isobutanol	+++++	0.00664	0.00629	0.00721	0.00778	0.00876			
	0.00950	0.00782					0.00771	14.721	<-
98 Cyclohexane	+++++	0.47139	0.53141	0.58953	0.61395	0.61732			
	0.63420	0.65074					0.58694	10.865	
99 n-Butanol	0.00680	0.00616	0.00584	0.00609	0.00724	0.00849			
	0.00931	0.00777					0.00721	17.189	<-
100 Methyl Methacrylate	+++++	+++++	0.17278	0.18856	0.20508	0.21616			
	0.24767	0.22328					0.20892	12.656	
101 2-Nitropropane	0.07165	0.05857	0.05550	0.05574	0.05968	0.06445			
	0.07296	0.06735					0.06324	10.927	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

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INITIAL CALIBRATION DATA

Start Cal Date : 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
25 Cyclohexanone	0.07872	0.08126	0.07739	0.12717	0.14524	0.16260			
	0.16603	0.14858					0.12337	31.195	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
141 1,3,5-Trichlorobenzene	0.89321	0.94269	0.96907	0.96371	0.99798	1.05040			
	1.05840	1.11212					0.99845	7.129	

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Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
143 Methyl Acetate	0.28099	0.25819	0.23630	0.23788	0.24808	0.23702			
	0.23392	0.21139					0.24297	8.361	
144 Methylcyclohexane	+++++	0.37722	0.46680	0.50751	0.51883	0.53127			
	0.55226	0.55891					0.50183	12.536	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
146 2-Methylnaphthalene	0.57760	0.51775	0.58935	0.74195	0.99907	1.26056			
	1.30874	1.20391					0.89987	36.876	
147 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
148 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
149 1,2:3,4-Diepoxybutane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
150 Bromoacetone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
151 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
152 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
153 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

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Last Edit : 15-Jan-2010 11:15 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	500.000 Level 7	1000.000 Level 8	RRF	% RSD	
155 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
156 tert-Butyl Ethyl ether	0.61614	0.61413	0.69838	0.73851	0.75170	0.79729	0.80616	0.81847	0.73010	11.114	
157 tert-Amyl Methyl ether	0.47295	0.44926	0.50746	0.57647	0.57895	0.62059	0.63683	0.63635	0.55986	13.270	
158 1,2,3-Trimethylbenzene	2.11844	1.94724	2.23055	2.47833	2.45175	2.55140	2.50282	2.63169	2.36403	10.094	
$ 4 Dibromofluoromethane	0.35258	0.29956	0.27622	0.26223	0.26209	0.25557	0.25080	0.24436	0.27543	12.912	
$ 5 1,2-Dichloroethane-d4	+++++	0.34034	0.30565	0.28206	0.28017	0.25995	0.25688	0.25166	0.28239	11.201	
$ 6 Toluene-d8	1.60296	1.28060	1.32050	1.30140	1.32373	1.36730	1.31365	1.33218	1.35529	7.609	
$ 7 Bromofluorobenzene	+++++	1.00528	0.92713	0.89738	0.89467	0.96270	0.88903	0.91268	0.92698	4.613	

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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Level 8: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
8 Dichlorodifluoromethane	0.24512	0.22637	0.29312	0.26584	0.25836	0.22478					
	0.25377	0.25550					AVRG		0.25286		8.68705
9 Chloromethane	0.42760	0.36493	0.38632	0.37473	0.35555	0.33446					
	0.34515	0.33569					AVRG		0.36556		8.48878
10 Vinyl Chloride	0.26549	0.28334	0.29549	0.28345	0.28191	0.26248					
	0.26455	0.26910					AVRG		0.27573		4.32516

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Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
11 Bromomethane	0.16671	0.14740	0.14735	0.11780	0.13810	0.12513					
	0.12079	0.11372					AVRG		0.13462		13.66298
12 Chloroethane	0.19677	0.17979	0.17143	0.16587	0.15197	0.14043					
	0.13197	+++++					AVRG		0.16260		13.96621
13 Trichlorofluoromethane	0.23047	0.24528	0.27583	0.28521	0.27605	0.25898					
	0.27441	0.27809					AVRG		0.26554		7.14904
14 Dichlorofluoromethane	0.29538	0.25019	0.29271	0.24864	0.26333	0.25614					
	0.21871	0.22084					AVRG		0.25574		11.12468
15 Acrolein	0.03500	0.03646	0.03273	0.03061	0.03485	0.02713					
	0.03125	0.02333					AVRG		0.03142		14.04042
16 Acetone	+++++	+++++	45722	72936	130272	288152					
	541674	894409					WLINR	-0.26836	0.07359		0.99144
17 1,1-Dichloroethene	0.25543	0.22821	0.24875	0.24244	0.24031	0.22889					
	0.23230	0.23451					AVRG		0.23886		4.07186

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Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
18 Freon-113	0.15989	0.18326	0.19650	0.20474	0.19956	0.19157	0.19670	0.20241	AVRG		0.19183		7.57382
19 Iodomethane	0.41190	0.41853	0.41379	0.41730	0.39941	0.39424	0.39593	0.40575	AVRG		0.40711		2.37346
20 Carbon Disulfide	0.61213	0.67218	0.68222	0.69759	0.67790	0.68612	0.70728	0.73775	AVRG		0.68415		5.23131
21 Methylene Chloride	+++++	+++++	66631	109609	190625	434370	832867	1601722	WLINR	-0.09238	0.24722		0.99972
22 Acetonitrile	+++++	0.04002	0.03499	0.03418	0.03425	0.03141	0.03048	0.02681	AVRG		0.03316		12.50651
23 Acrylonitrile	0.09873	0.10132	0.09529	0.10049	0.10769	0.09823	0.09751	0.08789	AVRG		0.09839		5.70290
24 Methyl tert-butyl ether	0.53105	0.56003	0.58859	0.63771	0.65588	0.66764	0.67729	0.64640	AVRG		0.62058		8.68677

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Last Edit : 15-Jan-2010 11:15 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
25 trans-1,2-Dichloroethene	0.30298	0.27861	0.28146	0.28115	0.27412	0.26566					
	0.26968	0.26535					AVRG		0.27738		4.39407
26 Hexane	0.06818	0.05919	0.06347	0.06206	0.06340	0.06360					
	0.06492	0.06727					AVRG		0.06401		4.44604
27 Vinyl acetate	0.27857	0.26576	0.27708	0.30336	0.33467	0.36377					
	0.36959	0.36730					AVRG		0.32001		13.77658
154 Vinyl Acetate**2nd**	+++++	+++++	0.02226	0.02595	0.02824	0.03177					
	0.03104	0.03181					AVRG		0.02851		13.45027
28 1,1-Dichloroethane	0.47614	0.50016	0.51634	0.50469	0.49915	0.48570					
	0.49304	0.49547					AVRG		0.49634		2.43834
29 tert-Butyl Alcohol	0.02185	0.02007	0.02067	0.02240	0.02417	0.02556					
	0.02534	0.02084					AVRG		0.02261		9.53291
30 2-Butanone	0.15894	0.13321	0.11448	0.12355	0.12907	0.12850					
	0.12419	0.11292					AVRG		0.12811		11.15850

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
M 31 1,2-Dichloroethene (total)	0.28719	0.27849	0.28402	0.28809	0.28260	0.27376	0.27838	0.27381	AVRG		0.28079		1.98343
32 cis-1,2-dichloroethene	0.27139	0.27837	0.28658	0.29502	0.29109	0.28186	0.28707	0.28227	AVRG		0.28421		2.61223
33 2,2-Dichloropropane	0.18179	0.17671	0.18243	0.19872	0.19625	0.20171	0.20572	0.21025	AVRG		0.19420		6.36588
34 Bromochloromethane	0.15515	0.13795	0.13821	0.13906	0.13595	0.13450	0.13437	0.12992	AVRG		0.13814		5.40535
35 Chloroform	0.47045	0.44710	0.45697	0.46723	0.45483	0.44638	0.44744	0.44930	AVRG		0.45496		2.06635
36 Tetrahydrofuran	+++++	0.09325	0.08510	0.08056	0.08038	0.08218	0.08397	0.07542	AVRG		0.08298		6.62614
37 1,1,1-Trichloroethane	0.29588	0.31020	0.31886	0.35046	0.32864	0.34089	0.33660	0.35024	AVRG		0.32897		5.93039

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
38 1,1-Dichloropropene	0.28692	0.30509	0.35013	0.35883	0.35804	0.35895						
	0.36427	0.37757					AVRG		0.34497		9.15384	
39 Carbon Tetrachloride	0.22410	0.27735	0.28113	0.30513	0.29106	0.29754						
	0.30178	0.30933					AVRG		0.28593		9.57695	
40 1,2-Dichloroethane	0.35141	0.32766	0.35354	0.33131	0.34294	0.33764						
	0.32608	0.32325					AVRG		0.33673		3.44971	
41 Benzene	1.08331	1.12270	1.09023	1.09541	1.05254	1.05927						
	1.06113	1.08007					AVRG		1.08058		2.13152	
42 Trichloroethene	0.29034	0.30732	0.29234	0.30670	0.29195	0.29551						
	0.29506	0.30332					AVRG		0.29782		2.31538	
43 1,2-Dichloropropane	0.25237	0.26526	0.26978	0.27227	0.27169	0.28057						
	0.27194	0.28181					AVRG		0.27071		3.39788	
44 1,4-Dioxane	0.00189	0.00177	0.00208	0.00233	0.00255	0.00261						
	0.00244	0.00220					AVRG		0.00223		13.73325	<-

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Compound	5.0000 Level 1 / 500.0000 Level 7	10.0000 Level 2 / 1000.0000 Level 8	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
45 Dibromomethane	0.15115	0.12624	0.14050	0.13878	0.13553	0.14251					
	0.13416	0.13402					AVRG		0.13786		5.30742
46 Bromodichloromethane	0.24738	0.25905	0.26074	0.28159	0.28408	0.29465					
	0.29899	0.30915					AVRG		0.27945		7.78821
47 2-Chloroethyl vinyl ether	3648	7878	23645	55693	134569	422388					
	810988	1691171					WLINR	0.03726	0.13054		0.99676
48 cis-1,3-Dichloropropene	+++++	+++++	0.27586	0.31639	0.33554	0.37475					
	0.36803	0.39164					AVRG		0.34370		12.52759
49 4-Methyl-2-pentanone	+++++	0.23984	0.25432	0.28947	0.33068	0.34275					
	0.34389	0.31238					AVRG		0.30190		13.94881
50 Toluene	1.38045	1.38434	1.45659	1.46607	1.47019	1.53313					
	1.52477	1.59727					AVRG		1.47660		5.01494
51 trans-1,3-Dichloropropene	+++++	+++++	0.31461	0.34297	0.36832	0.42993					
	0.42615	0.44640					AVRG		0.38806		13.84071

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
52 Ethyl Methacrylate	4328	8671	27032	60861	145998	473697					
	922275	1845847					WLINR	0.01741	0.38686		0.99729
53 1,1,2-Trichloroethane	0.27652	0.24754	0.27102	0.24977	0.26690	0.27474					
	0.25968	0.26111					AVRG		0.26341		4.12726
54 1,3-Dichloropropane	0.41224	0.41925	0.43850	0.43824	0.44711	0.47052					
	0.45056	0.45409					AVRG		0.44131		4.26941
55 Tetrachloroethene	0.29512	0.30909	0.32584	0.31806	0.30660	0.30873					
	0.31207	0.31840					AVRG		0.31174		2.97454
56 2-Hexanone	+++++	0.16511	0.17438	0.19153	0.22577	0.24702					
	0.23340	0.21874					AVRG		0.20799		14.99964
57 Dibromochloromethane	0.22968	0.23431	0.24259	0.27396	0.28218	0.30742					
	0.30938	0.32011					AVRG		0.27496		13.09878
58 1,2-Dibromoethane	0.26779	0.22456	0.23888	0.24547	0.26368	0.26991					
	0.26339	0.26091					AVRG		0.25432		6.37590

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Start Cal Date : 08-JAN-2010 12:27
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Last Edit : 15-Jan-2010 11:15 a3ux14.i

	5.0000	10.0000	25.0000	50.0000	100.0000	250.0000		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	500.0000	1000.0000									
	Level 7	Level 8									
59 Chlorobenzene	1.07406	1.02899	1.00247	1.00614	0.99359	1.00884					
	0.98994	1.01551					AVRG		1.01494		2.64481
60 1,1,1,2-Tetrachloroethane	0.28131	0.31373	0.30846	0.32857	0.33095	0.33565					
	0.33775	0.33875					AVRG		0.32190		6.15282
61 Ethylbenzene	0.43458	0.49215	0.49804	0.53582	0.53723	0.56295					
	0.55878	0.56543					AVRG		0.52312		8.68099
62 m + p-Xylene	0.51104	0.56573	0.62070	0.66725	0.66450	0.68289					
	0.67052	0.68039					AVRG		0.63288		9.96787
M 63 Xylenes (total)	0.51222	0.55693	0.60257	0.65173	0.65226	0.67007					
	0.65695	0.66280					AVRG		0.62069		9.36388
64 Xylene-o	0.51458	0.53931	0.56631	0.62069	0.62779	0.64442					
	0.62980	0.62764					AVRG		0.59632		8.22302
65 Styrene	+++++	0.71838	0.83322	0.92205	0.99485	1.05417					
	1.05543	1.05710					AVRG		0.94789		13.85478

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
66 Bromoform	0.13896	0.14466	0.14074	0.16038	0.16891	0.18971	0.19284	0.19554	AVRG		0.16647		14.39246
67 Isopropylbenzene	+++++	1.23184	1.49697	1.62185	1.67385	1.68068	1.73640	1.76109	AVRG		1.60039		11.49763
68 1,1,2,2-Tetrachloroethane	0.57457	0.61928	0.57194	0.60385	0.62132	0.66412	0.63399	0.61696	AVRG		0.61326		4.94005
69 1,4-Dichloro-2-butene	0.17621	0.16924	0.15831	0.18452	0.19355	0.21511	0.21145	0.21377	AVRG		0.19027		11.45111
70 1,2,3-Trichloropropane	0.17170	0.18316	0.17169	0.17403	0.17560	0.19019	0.17989	0.17552	AVRG		0.17772		3.59279
71 Bromobenzene	0.70970	0.71617	0.70245	0.71703	0.73838	0.77342	0.75106	0.78042	AVRG		0.73608		4.03551
72 n-Propylbenzene	+++++	+++++	0.72777	0.79541	0.85317	0.90389	0.89536	0.95944	AVRG		0.85584		9.72869

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
73 2-Chlorotoluene	0.55746	0.60105	0.67157	0.70880	0.74867	0.75615					
	0.74480	0.78166					AVRG		0.69627		11.52577
74 1,3,5-Trimethylbenzene	+++++	1.71952	2.11358	2.35330	2.50416	2.56582					
	2.57516	2.76084					AVRG		2.37034		14.81939
75 4-Chlorotoluene	0.63259	0.65758	0.73077	0.75635	0.76530	0.78784					
	0.75676	0.79422					AVRG		0.73518		8.07128
76 tert-Butylbenzene	+++++	1.65508	1.96567	2.13250	2.25770	2.39270					
	2.40302	2.55722					AVRG		2.19484		13.98744
77 1,2,4-Trimethylbenzene	+++++	1.73397	2.21612	2.42169	2.52345	2.60369					
	2.61878	2.81885					AVRG		2.41951		14.66359
78 sec-Butylbenzene	+++++	2.27366	2.94181	3.10114	3.21818	3.36225					
	3.48658	3.71171					AVRG		3.15647		14.70069
79 4-Isopropyltoluene	+++++	+++++	2.29990	2.48976	2.64117	2.77039					
	2.84030	3.05466					AVRG		2.68270		9.95162

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
80 1,3-Dichlorobenzene	1.39760	1.39536	1.36910	1.36814	1.38576	1.39827					
	1.39966	1.46646					AVRG		1.39754		2.19253
81 1,4-Dichlorobenzene	1.74236	1.47939	1.48759	1.42762	1.43281	1.41997					
	1.39725	1.47392					AVRG		1.48261		7.40164
82 n-Butylbenzene	+++++	+++++	1.99169	2.14846	2.23892	2.41147					
	2.49525	2.68071					AVRG		2.32775		10.74207
83 1,2-Dichlorobenzene	1.33193	1.33879	1.32606	1.29282	1.30517	1.28114					
	1.28168	1.31017					AVRG		1.30847		1.70934
84 1,2-Dibromo-3-chloropropane	+++++	0.09136	0.09272	0.10001	0.10606	0.11309					
	0.11941	0.11819					AVRG		0.10583		10.94328
85 1,2,4-Trichlorobenzene	0.73556	0.75799	0.76530	0.83332	0.85618	0.90598					
	0.94965	0.97001					AVRG		0.84675		10.60401
86 Hexachlorobutadiene	0.51656	0.52155	0.51347	0.51454	0.54954	0.54564					
	0.58146	0.59957					AVRG		0.54279		6.05828

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
87 Naphthalene	+++++	+++++	1.45699	1.76735	2.01575	2.11579	2.19283	2.14381	AVRG		1.94875		14.60005	
88 1,2,3-Trichlorobenzene	0.79204	0.77832	0.75896	0.81610	0.88582	0.87696	0.87713	0.88742	AVRG		0.83409		6.41740	
89 Ethyl Ether	0.22485	0.20658	0.21102	0.21793	0.21062	0.20849	0.20188	0.19532	AVRG		0.20958		4.33876	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
91 3-Chloropropene	0.12004	0.11312	0.13322	0.12820	0.13044	0.13849	0.13535	0.14033	AVRG		0.12990		7.15953	
92 Isopropyl Ether	0.18891	0.18586	0.22686	0.24347	0.23727	0.23925	0.23203	0.22237	AVRG		0.22200		10.09720	
93 2-Chloro-1,3-butadiene	0.27829	0.25023	0.31281	0.33396	0.33597	0.36927	0.37475	0.39179	AVRG		0.33088		14.77999	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
94 Propionitrile	0.04323	0.03827	0.03760	0.04128	0.04063	0.03981						
	0.03976	0.03448					AVRG		0.03938		6.70058	
95 Ethyl Acetate	0.22895	0.24226	0.24941	0.26510	0.26947	0.27468						
	0.29210	0.25422					AVRG		0.25952		7.68511	
96 Methacrylonitrile	0.09735	0.07350	0.08675	0.09490	0.09528	0.09838						
	0.10169	0.09061					AVRG		0.09231		9.63078	
97 Isobutanol	+++++	0.00664	0.00629	0.00721	0.00778	0.00876						
	0.00950	0.00782					AVRG		0.00771		14.72087	<-
98 Cyclohexane	+++++	0.47139	0.53141	0.58953	0.61395	0.61732						
	0.63420	0.65074					AVRG		0.58694		10.86460	
99 n-Butanol	4084	7525	18683	39595	97046	275820						
	634435	1047397					WLINR	0.22641	0.00832		0.99047	<-
100 Methyl Methacrylate	+++++	+++++	0.17278	0.18856	0.20508	0.21616						
	0.24767	0.22328					AVRG		0.20892		12.65583	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
101 2-Nitropropane	0.07165	0.05857	0.05550	0.05574	0.05968	0.06445						
	0.07296	0.06735					AVRG		0.06324		10.92691	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
25 Cyclohexanone	8103	16991	42148	143207	338140	939927						
	2071142	3547057					WLINR	0.17907	0.15636		0.99469	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
141 1,3,5-Trichlorobenzene	0.89321	0.94269	0.96907	0.96371	0.99798	1.05040	1.05840	1.11212	AVRG		0.99845		7.12939	
143 Methyl Acetate	0.28099	0.25819	0.23630	0.23788	0.24808	0.23702	0.23392	0.21139	AVRG		0.24297		8.36108	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
144 Methylcyclohexane	+++++	0.37722	0.46680	0.50751	0.51883	0.53127						
	0.55226	0.55891					AVRG		0.50183		12.53567	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
146 2-Methylnaphthalene	11891	21653	64191	167109	465200	1457360						
	3265074	5748365					WLINR	0.04667	1.24100		0.99253	
147 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
148 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
149 1,2:3,4-Diepoxybutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
150 Bromoacetone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
151 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
152 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
153 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
155 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
156 tert-Butyl Ethyl ether	0.61614	0.61413	0.69838	0.73851	0.75170	0.79729						
	0.80616	0.81847					AVRG		0.73010		11.11396	
157 tert-Amyl Methyl ether	0.47295	0.44926	0.50746	0.57647	0.57895	0.62059						
	0.63683	0.63635					AVRG		0.55986		13.26984	
158 1,2,3-Trimethylbenzene	2.11844	1.94724	2.23055	2.47833	2.45175	2.55140						
	2.50282	2.63169					AVRG		2.36403		10.09434	

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	500.0000 Level 7	1000.0000 Level 8									
$ 4 Dibromofluoromethane	0.35258	0.29956	0.27622	0.26223	0.26209	0.25557					
	0.25080	0.24436					AVRG		0.27543		12.91202
$ 5 1,2-Dichloroethane-d4	+++++	0.34034	0.30565	0.28206	0.28017	0.25995					
	0.25688	0.25166					AVRG		0.28239		11.20112
$ 6 Toluene-d8	1.60296	1.28060	1.32050	1.30140	1.32373	1.36730					
	1.31365	1.33218					AVRG		1.35529		7.60888
$ 7 Bromofluorobenzene	+++++	1.00528	0.92713	0.89738	0.89467	0.96270					
	0.88903	0.91268					AVRG		0.92698		4.61306

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Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response

Data review checklist: 8260 A/8260B/624 Initial Calibration

Method (check the applicable box): ☐ 8260A ☒ 8260B ☐ 624

Analysis Date: _____ **Run batch ID:** R001144-IC

Curve ID: R001144/R001144-BR **(curve ID must include instrument designation and date reference)**

Acceptance criteria is found in the applicable laboratory SOP. If item is N/A, mark as such in Notes column

Item for review	Level I Yes	Level I No	Level II Yes	Level II No
Tune:				
BFB passes, all points within 12 hr clock (24 hr for 624)	Yes		Yes	
All calibration points ID'd on Calibration Summary Form	Yes		Yes	
Documentation: Raw data and run logs present for all points	Yes		Yes	
Run log and Raw data clearly indicate method by version	Yes		Yes	
RLs: Minimum of 5 points, lowest standards at or below RL	Yes		Yes	
Linearity: 8260 CCCs ≤ 30% RSD	Yes		Yes	
Linear Regression curve fit for all >15% RSD (35% 624) r2>0.980 (r>0.990)	Yes		Yes	
Plots for all Linear Regressions printed	Yes		Yes	
Response: SPCCs all pass minimum response factors	Yes		Yes	
ICV- Second source standard Analytes 60-140% recovery, problem compounds may be allowed outside these limits, but must be evaluated (acrolein, acrylonitrile, 2-ceve, propionitrile, trans 1,4-dichloro-2-butene) Internal Standards 50-200% of recent curve	Yes		Yes	
Manual integrations: necessary, correct & documented	NA		NA	
Other: Verify Avg RF on Cal Summary matches Avg RF on Con Cal form	NA		NA	

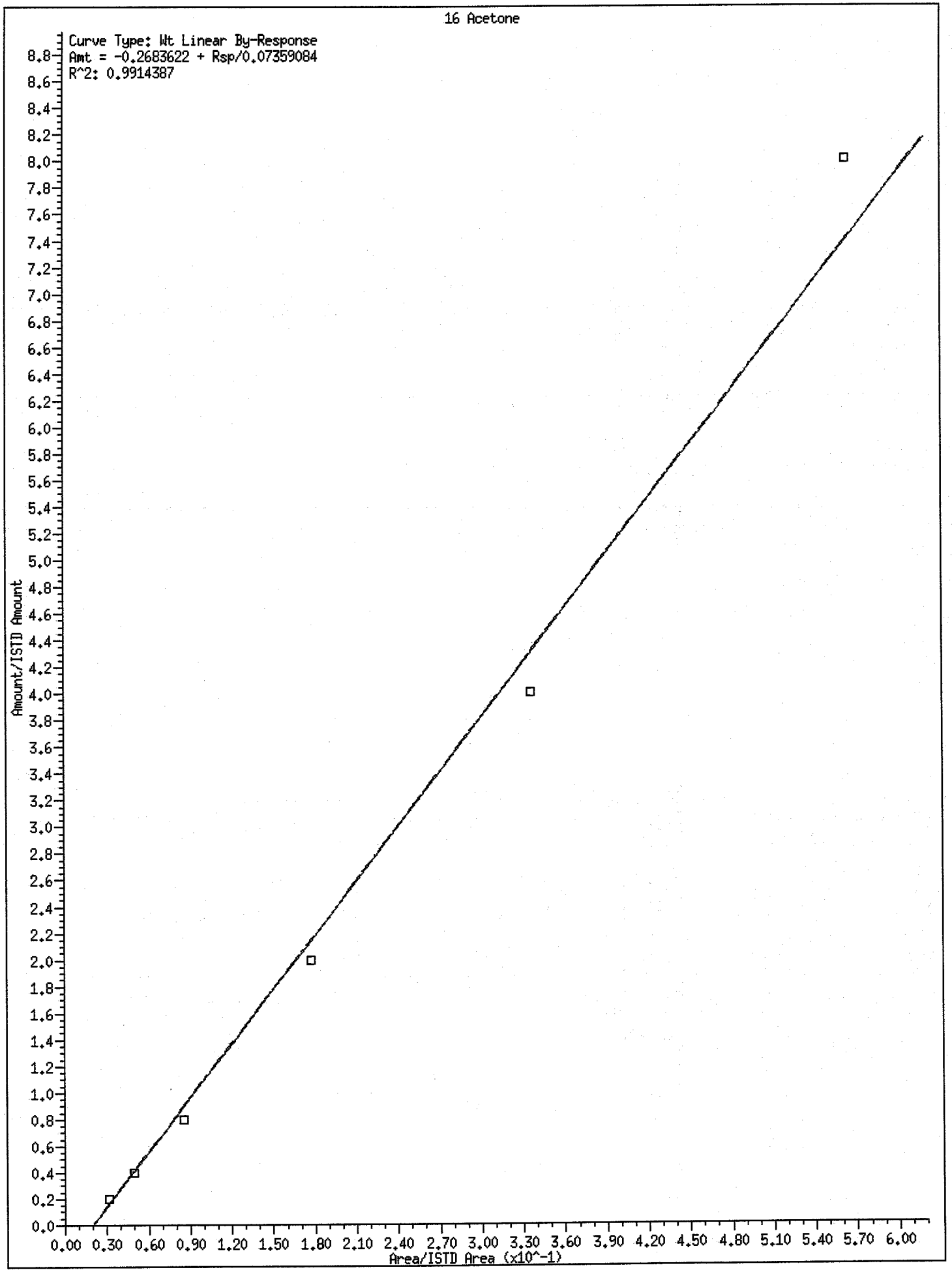
Reviewed by Analyst/ Level I: _____ Date: 1-19-10

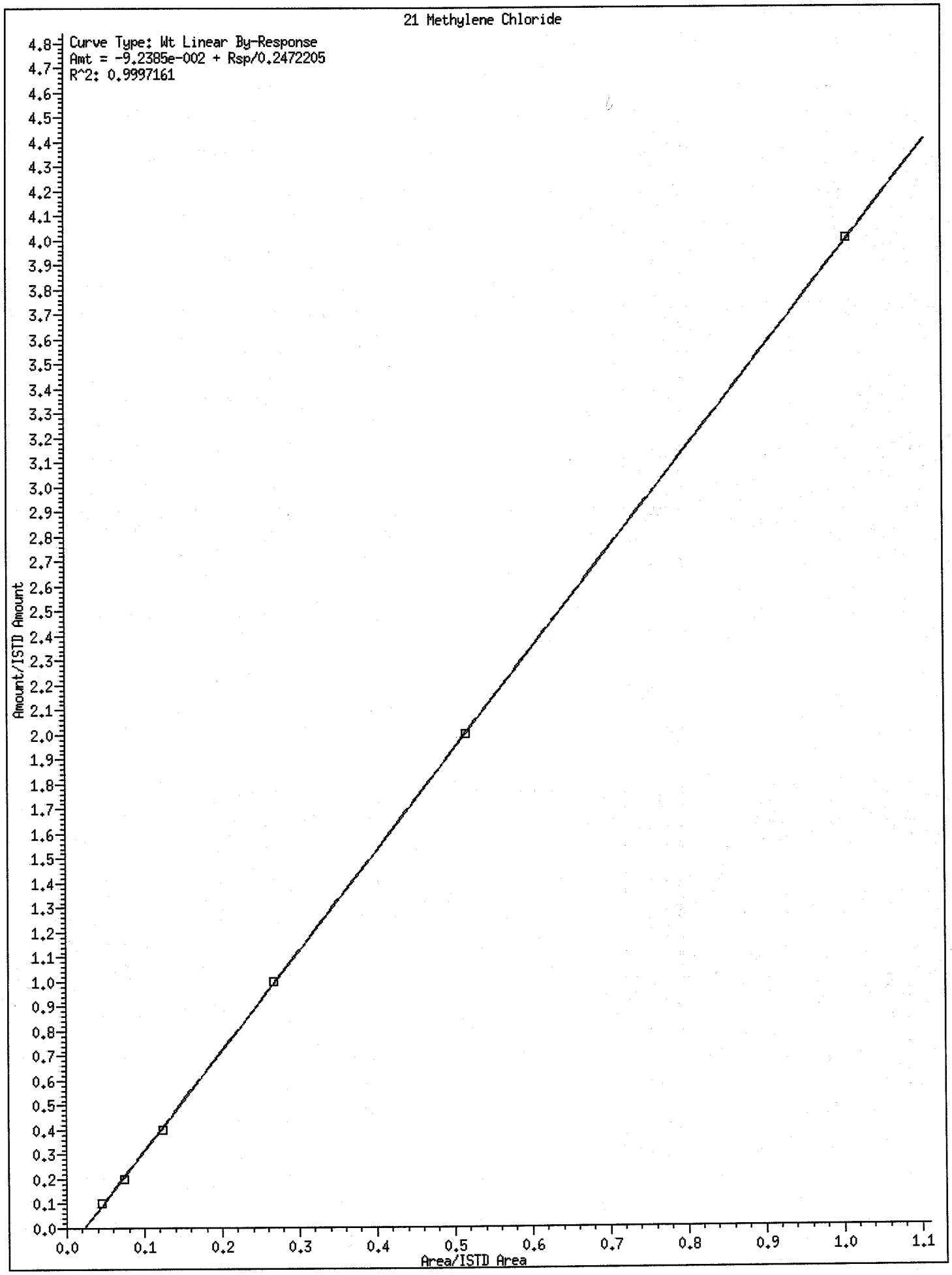
Reviewed by Peer/Sup/ Level II: _____ Date: 1-18-10

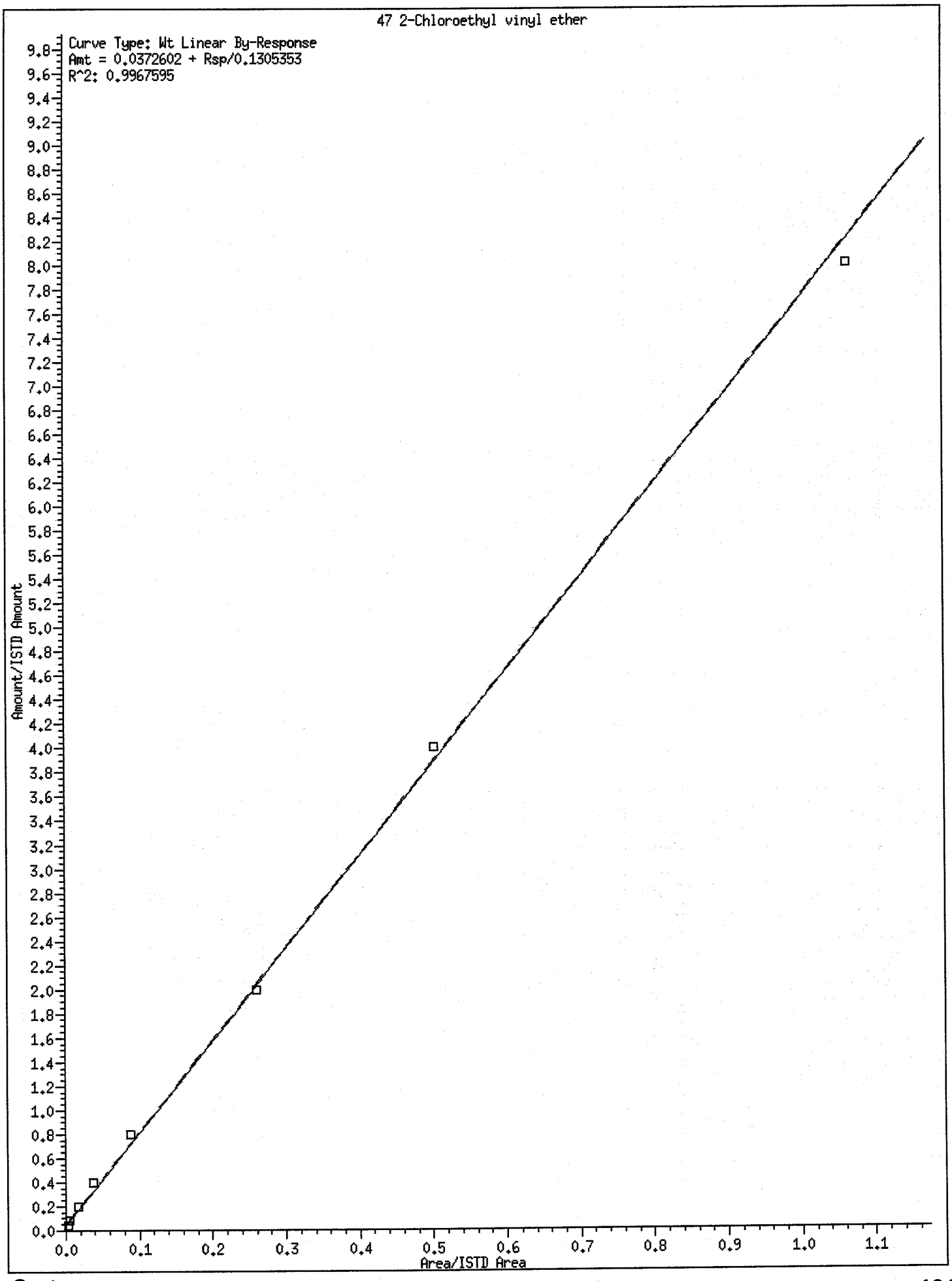
By signing in "Reviewed by" above I agree that I have reviewed the data as indicated on this checklist.

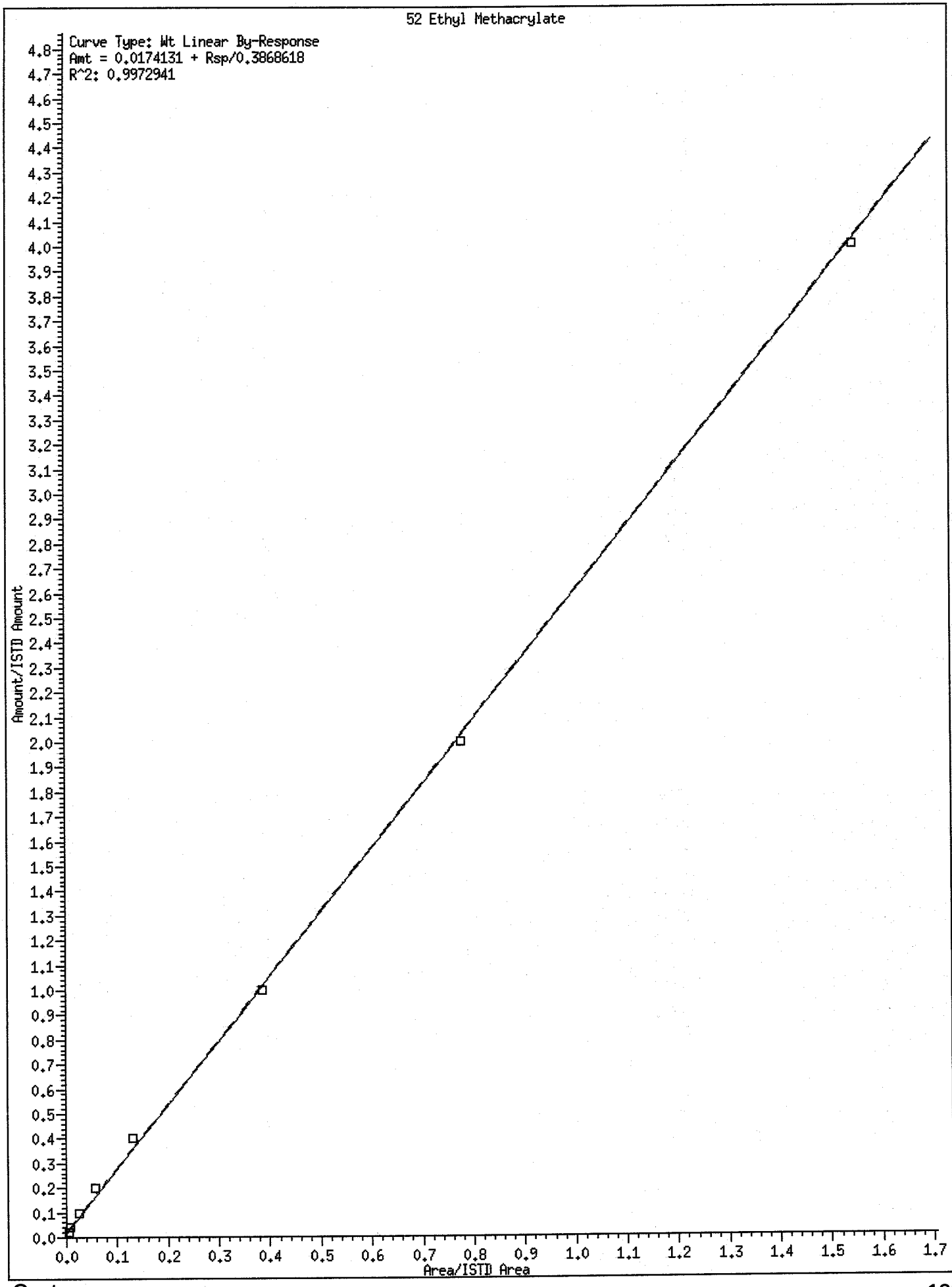
*Peer/Sup only: In addition to the items above, all manual integrations in this package have been reviewed and found acceptable.

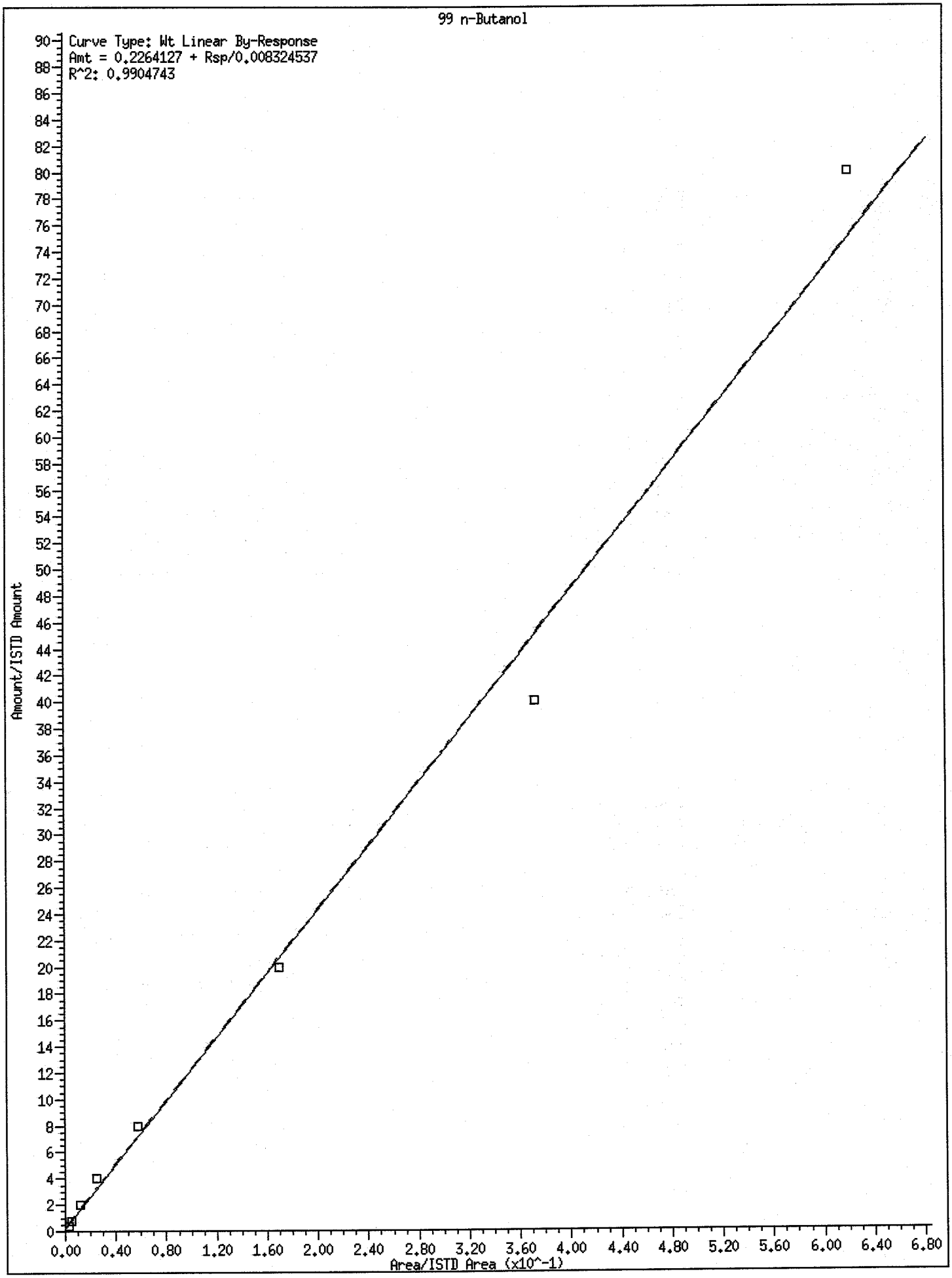
Reviewed by Peer/Sup: _____ Date: _____

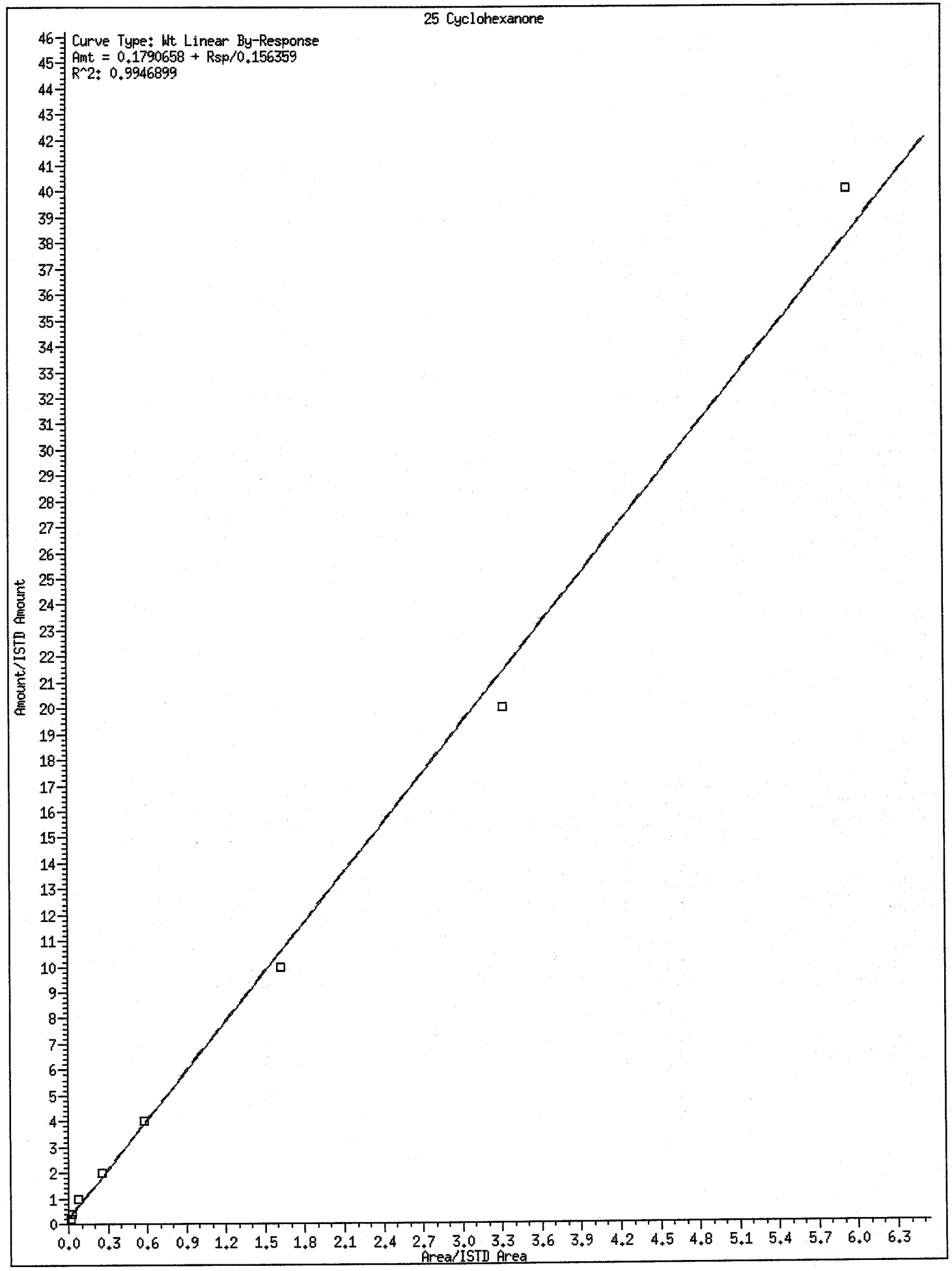

16 Acetone
Curve Type: Wt Linear By-Response
Amt = -0.2683622 + Rsp/0.07359084
R^2: 0.9914387
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8 7.0 7.2 7.4 7.6 7.8 8.0 8.2 8.4 8.6 8.8
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00

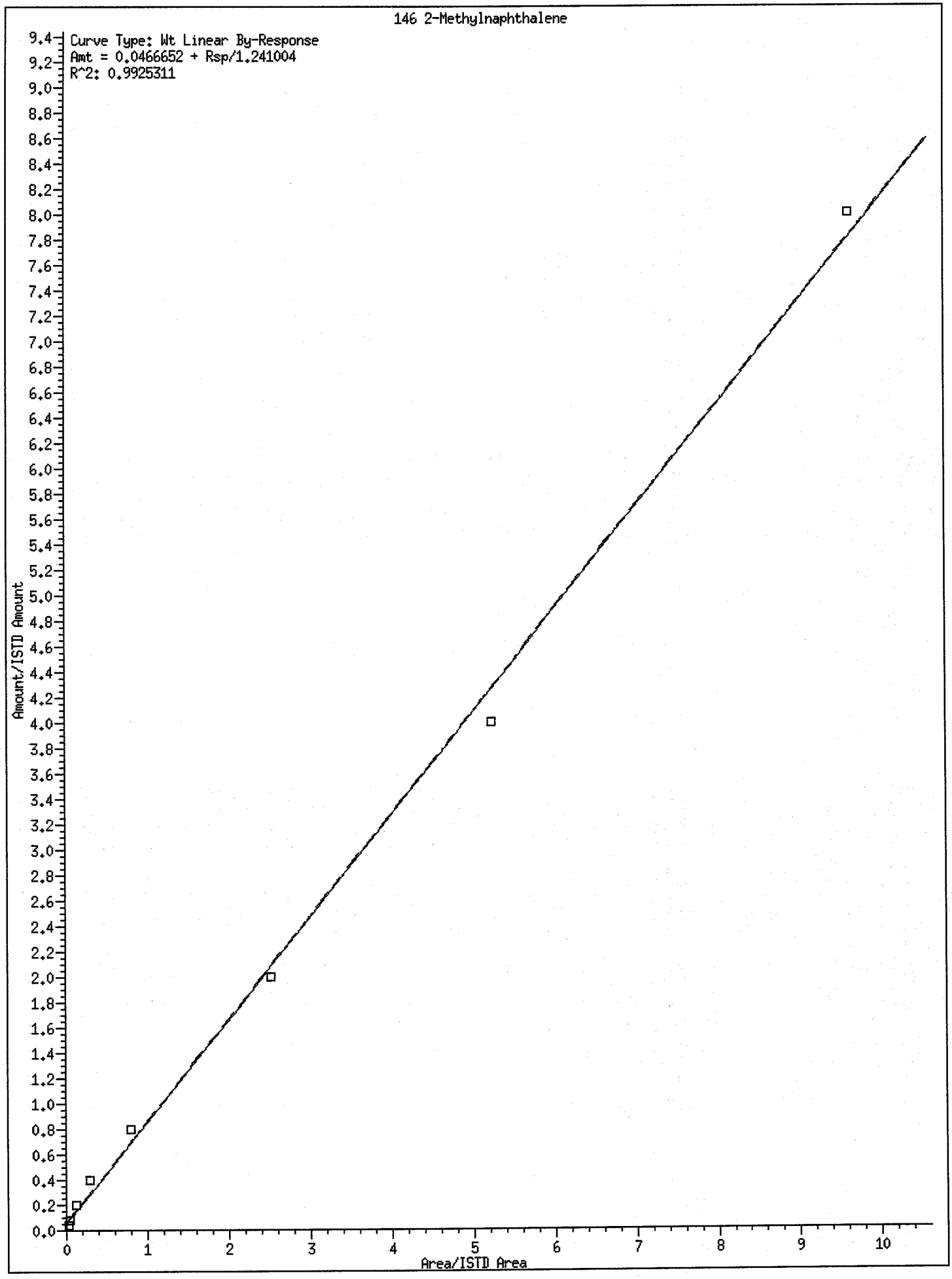

21 Methylene Chloride
Curve Type: Wt Linear By-Response
Amt = -9.2385e-002 + Rsp/0.2472205
R^2: 0.9997161
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0


47 2-Chloroethyl vinyl ether
Curve Type: Wt Linear By-Response
Amt = 0.0372602 + Rsp/0.1305353
R^2: 0.9967595
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1


52 Ethyl Methacrylate
Curve Type: Wt Linear By-Response
Amt = 0.0174131 + Rsp/0.3868618
R^2: 0.9972941
Amount/ISTD Amount
Area/ISTD Area


99 n-Butanol
Curve Type: Wt Linear By-Response
Amt = 0.2264127 + Rsp/0.008324537
R^2: 0.9904743
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
3.20
3.60
4.00
4.40
4.80
5.20
5.60
6.00
6.40
6.80


25 Cyclohexanone
Curve Type: Wt Linear By-Response
Amt = 0.1790658 + Rsp/0.156359
R^2: 0.9946899
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0 6.3


146 2-Methylnaphthalene
Curve Type: Wt Linear By-Response
Amt = 0.0466652 + Rsp/1.241004
R^2: 0.9925311
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8
9.0
9.2
9.4
0
1
2
3
4
5
6
7
8
9
10

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Lab Smp Id: 1000NG-IC
Inj Date : 14-JAN-2010 10:45
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 1000NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,8
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 17:14 Cal File: 147369.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1586660	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1191268	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	599657	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	1550872	1000.00	887.21
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	1597211	1000.00	891.20
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	6347919	1000.00	982.95
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	2189170	1000.00	984.57
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	1621536	1000.00	1010.4(A)
9 Chloromethane	50	1.452	1.452	(0.220)	2130506	1000.00	918.30
10 Vinyl Chloride	62	1.570	1.570	(0.238)	1707911	1000.00	975.98
12 Chloroethane	64	1.973	1.973	(0.299)	705117	1000.00	683.26
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	1764921	1000.00	1047.2(A)
15 Acrolein	56	2.730	2.730	(0.414)	1480430	10000.0	7423.8
16 Acetone	43	2.943	2.943	(0.446)	894409	2000.00	1338.7
17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	1488368	1000.00	981.82
18 Freon-113	151	2.884	2.884	(0.437)	1284629	1000.00	1055.2(A)
19 Iodomethane	142	3.014	3.014	(0.457)	2575142	1000.00	996.67
20 Carbon Disulfide	76	3.097	3.097	(0.469)	4682251	1000.00	1078.4(A)
21 Methylene Chloride	84	3.499	3.499	(0.530)	1601722	1000.00	787.44
22 Acetonitrile	41	3.286	3.286	(0.498)	1701843	10000.0	8085.7
23 Acrylonitrile	53	3.890	3.890	(0.589)	1115549	2000.00	1786.4
24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	4102482	1000.00	1041.6(A)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	1684085	1000.00	956.64
26	Hexane	86	4.387	4.387	(0.665)	426926	1000.00	1050.9(A)
27	Vinyl acetate	43	4.694	4.694	(0.711)	2331140	1000.00	1147.8(A)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	201884	1000.00	1115.6(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	3144585	1000.00	998.26
29	tert-Butyl Alcohol	59	3.795	3.795	(0.575)	2645703	20000.0	18434
30	2-Butanone	43	5.380	5.380	(0.815)	1433284	2000.00	1762.8
M 31	1,2-Dichloroethene (total)	96				3475574	2000.00	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	1791489	1000.00	993.19
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	1334401	1000.00	1082.7(A)
34	Bromochloromethane	128	5.605	5.605	(0.849)	824533	1000.00	940.48
35	Chloroform	83	5.724	5.724	(0.867)	2851538	1000.00	987.55
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	478646	1000.00	908.86
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	2222868	1000.00	1064.7(A)
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	2396279	1000.00	1094.5(A)
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	1963226	1000.00	1081.8(A)
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	2051530	1000.00	959.96
41	Benzene	78	6.303	6.303	(0.955)	6854817	1000.00	999.52
42	Trichloroethene	130	6.966	6.966	(1.056)	1925055	1000.00	1018.5(A)
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	1788554	1000.00	1041.0(A)
44	1,4-Dioxane	88	7.309	7.309	(1.108)	697021	50000.0	49168
45	Dibromomethane	93	7.274	7.274	(1.102)	850550	1000.00	972.11
46	Bromodichloromethane	83	7.439	7.439	(1.127)	1962059	1000.00	1106.3(A)
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	1691171	2000.00	2615.4(A)
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	2485625	1000.00	1139.5(A)
49	4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	2976998	2000.00	2069.4(A)
50	Toluene	91	8.149	8.149	(0.873)	7611084	1000.00	1081.7(A)
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	2127124	1000.00	1150.3(A)
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	1845847	1000.00	1259.8(A)
53	1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	1244203	1000.00	991.27
54	1,3-Dichloropropane	76	8.635	8.635	(0.925)	2163749	1000.00	1028.9(A)
55	Tetrachloroethene	164	8.623	8.623	(0.924)	1517192	1000.00	1021.4(A)
56	2-Hexanone	43	8.717	8.717	(0.934)	2084655	2000.00	2103.4(A)
57	Dibromochloromethane	129	8.836	8.836	(0.947)	1525332	1000.00	1164.2(A)
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	1243278	1000.00	1025.9(A)
59	Chlorobenzene	112	9.356	9.356	(1.003)	4838972	1000.00	1000.6(A)
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	1614150	1000.00	1052.3(A)
61	Ethylbenzene	106	9.451	9.451	(1.013)	2694319	1000.00	1080.9(A)
62	m + p-Xylene	106	9.558	9.558	(1.024)	6484192	2000.00	2150.1(A)
64	Xylene-o	106	9.889	9.889	(1.060)	2990740	1000.00	1052.5(A)
65	Styrene	104	9.901	9.901	(1.061)	5037155	1000.00	1115.2(A)
66	Bromoform	173	10.054	10.054	(1.077)	931775	1000.00	1174.6(A)
67	Isopropylbenzene	105	10.208	10.208	(1.094)	8391727	1000.00	1100.4(A)
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	1479864	1000.00	1006.0(A)
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	512747	1000.00	1123.5(A)
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	421003	1000.00	987.60
71	Bromobenzene	156	10.457	10.457	(0.925)	1871938	1000.00	1060.2(A)
72	n-Propylbenzene	120	10.551	10.551	(0.933)	2301331	1000.00	1121.0(A)
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	1874900	1000.00	1122.6(A)
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	6622219	1000.00	1164.7(A)
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	1905045	1000.00	1080.3(A)
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	6133820	1000.00	1165.1(A)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	6761362	1000.00	1165.0(A)
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	8903000	1000.00	1175.9(A)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.285	11.285	(0.998)	7327000	1000.00	1138.6(A)
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	3517499	1000.00	1049.3(A)
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	3535389	1000.00	994.14
82	n-Butylbenzene	91	11.628	11.628	(1.028)	6430037	1000.00	1151.6(A)
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	3142614	1000.00	1001.3(A)
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	283496	1000.00	1116.7(A)
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	2326689	1000.00	1145.6(A)
87	Naphthalene	128	13.178	13.178	(1.165)	5142201	1000.00	1100.1(A)
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	1438134	1000.00	1104.6(A)
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	2128579	1000.00	1063.9(A)
98	Cyclohexane	56	5.960	5.960	(0.903)	4130035	1000.00	1108.7(A)
143	Methyl Acetate	43	3.393	3.393	(0.514)	2683177	2000.00	1740.0
144	Methylcyclohexane	83	7.144	7.144	(1.082)	3547186	1000.00	1113.7(A)
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	2667564	1000.00	1113.8(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147352.D
Lab Smp Id: 1000NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,8

Calibration Date: 14-JAN-2010
Calibration Time: 15:16

Level: LOW
Sample Type: SOIL

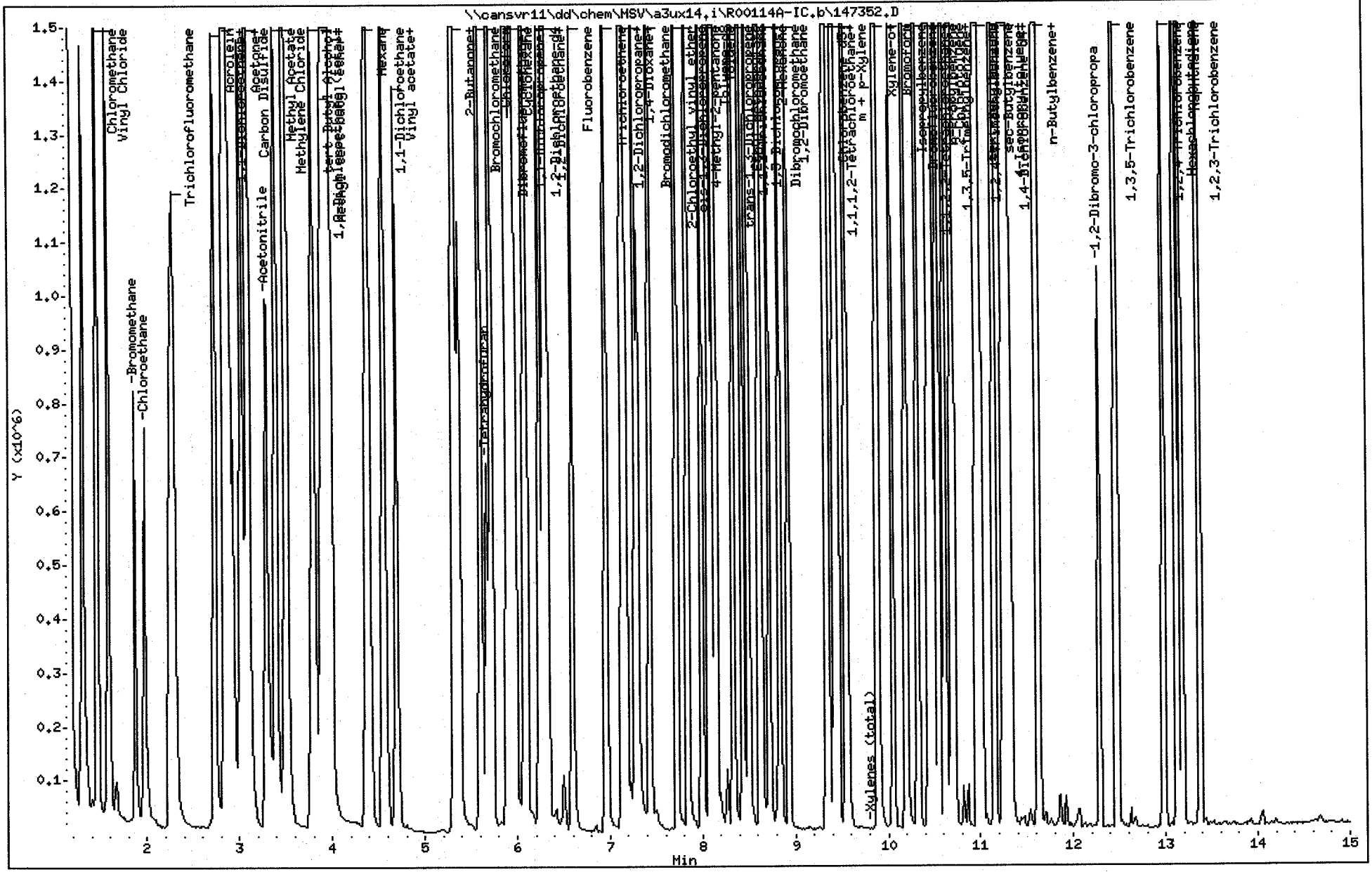
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1586660	11.21
2 Chlorobenzene-d5	1019841	509921	2039682	1191268	16.81
3 1,4-Dichlorobenze	550598	275299	1101196	599657	8.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D
Date : 14-JAN-2010 10:45
Client ID:
Sample Info: 1000NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Lab Smp Id: 500NG-IC
Inj Date : 14-JAN-2010 11:07
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 500NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,7
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:30 Cal File: 147362.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1611295	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1183987	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	632285	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	808217	500.000	455.29
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	827807	500.000	454.83
$	6 Toluene-d8	98	8.090	8.090	(0.867)	3110681	500.000	484.64
$	7 Bromofluorobenzene	95	10.327	10.327	(0.913)	1124235	500.000	479.53
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	817803	500.000	501.81
	9 Chloromethane	50	1.452	1.452	(0.220)	1112293	500.000	472.10
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	852541	500.000	479.73
	12 Chloroethane	64	1.996	1.996	(0.303)	425274	500.000	405.79
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	884302	500.000	516.70
	15 Acrolein	56	2.730	2.730	(0.414)	1007152	5000.00	4973.2
	16 Acetone	43	2.931	2.931	(0.444)	541674	1000.00	798.35
	17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	748607	500.000	486.28
	18 Freon-113	151	2.884	2.884	(0.437)	633881	500.000	512.70
	19 Iodomethane	142	3.026	3.026	(0.459)	1275909	500.000	486.27
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	2279280	500.000	516.91
	21 Methylene Chloride	84	3.511	3.511	(0.532)	832867	500.000	403.20
	22 Acetonitrile	41	3.286	3.286	(0.498)	982098	5000.00	4594.7
	23 Acrylonitrile	53	3.889	3.889	(0.589)	628461	1000.00	991.00
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	2182635	500.000	545.70

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	869075	500.000	486.13
	26 Hexane	86	4.386	4.386	(0.665)	209213	500.000	507.11
	27 Vinyl acetate	43	4.694	4.694	(0.711)	1191034	500.000	577.46
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	100038	500.000	544.36(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	1588852	500.000	496.68
	29 tert-Butyl Alcohol	59	3.783	3.783	(0.573)	1633101	10000.0	11205
	30 2-Butanone	43	5.380	5.380	(0.815)	800456	1000.00	969.44
M	31 1,2-Dichloroethene (total)	96				1794194	1000.00	
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	925119	500.000	505.04
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	662959	500.000	529.67
	34 Bromochloromethane	128	5.605	5.605	(0.849)	433029	500.000	486.37
	35 Chloroform	83	5.724	5.724	(0.867)	1441907	500.000	491.73
	36 Tetrahydrofuran	42	5.676	5.676	(0.860)	270616	500.000	505.99
	37 1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	1084735	500.000	511.60
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	1173894	500.000	527.97
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	972528	500.000	527.73
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	1050813	500.000	484.18
	41 Benzene	78	6.303	6.303	(0.955)	3419599	500.000	491.00
	42 Trichloroethene	130	6.966	6.966	(1.056)	950868	500.000	495.38
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	876347	500.000	502.27
	44 1,4-Dioxane	88	7.309	7.309	(1.108)	393840	25000.0	27357
	45 Dibromomethane	93	7.274	7.274	(1.102)	432358	500.000	486.60
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	963530	500.000	534.96
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	810988	1000.00	1235.0
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	1186008	500.000	535.39
	49 4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	1628664	1000.00	1139.1
	50 Toluene	91	8.149	8.149	(0.873)	3610620	500.000	516.31
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	1009101	500.000	549.06
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	922275	500.000	633.30
	53 1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	614927	500.000	492.93
	54 1,3-Dichloropropane	76	8.634	8.634	(0.925)	1066912	500.000	510.48
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	738978	500.000	500.53
	56 2-Hexanone	43	8.717	8.717	(0.934)	1105371	1000.00	1122.2
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	732609	500.000	562.60
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	623710	500.000	517.83
	59 Chlorobenzene	112	9.356	9.356	(1.003)	2344155	500.000	487.68
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	799795	500.000	524.63
	61 Ethylbenzene	106	9.451	9.451	(1.013)	1323176	500.000	534.08
	62 m + p-Xylene	106	9.557	9.557	(1.024)	3175551	1000.00	1059.5
	64 Xylene-o	106	9.889	9.889	(1.060)	1491345	500.000	528.07
	65 Styrene	104	9.901	9.901	(1.061)	2499222	500.000	556.73
	66 Bromoform	173	10.054	10.054	(1.077)	456635	500.000	579.20
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	4111761	500.000	542.50
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	801725	500.000	516.90
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	267390	500.000	555.65
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	227481	500.000	506.09
	71 Bromobenzene	156	10.457	10.457	(0.925)	949762	500.000	510.17
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	1132241	500.000	523.09
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	941850	500.000	534.85
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	3256470	500.000	543.20
	75 4-Chlorotoluene	126	10.717	10.717	(0.948)	956975	500.000	514.68
	76 tert-Butylbenzene	119	10.977	10.977	(0.971)	3038792	500.000	547.42
	77 1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	3311631	500.000	541.18
	78 sec-Butylbenzene	105	11.155	11.155	(0.986)	4409020	500.000	552.29

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.285	11.285	(0.998)	3591760	500.000	529.37
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	1769967	500.000	500.76
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	1766918	500.000	471.21
82	n-Butylbenzene	91	11.616	11.616	(1.027)	3155420	500.000	535.98
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	1620780	500.000	489.76
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	150998	500.000	564.12
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	1200894	500.000	560.76
87	Naphthalene	128	13.178	13.178	(1.165)	2772993	500.000	562.62
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	735292	500.000	535.62
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	1109186	500.000	525.80
98	Cyclohexane	56	5.960	5.960	(0.903)	2043763	500.000	540.26
143	Methyl Acetate	43	3.392	3.392	(0.514)	1507678	1000.00	962.76
144	Methylcyclohexane	83	7.144	7.144	(1.082)	1779716	500.000	550.25
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	1338420	500.000	530.02

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

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TestAmerica North Canton

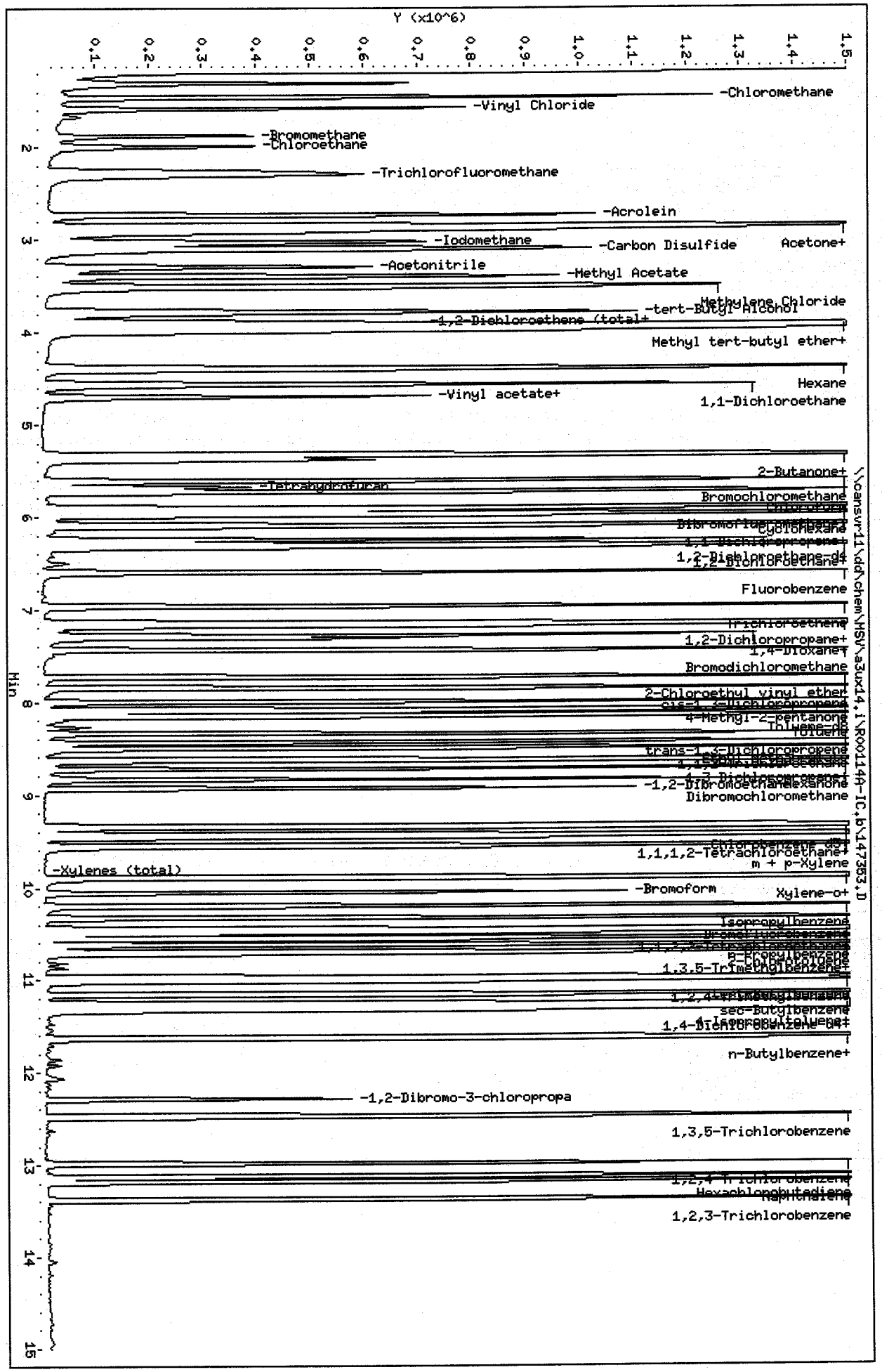
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147353.D
Lab Smp Id: 500NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,7

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1611295	12.93
2 Chlorobenzene-d5	1019841	509921	2039682	1183987	16.10
3 1,4-Dichlorobenze	550598	275299	1101196	632285	14.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D
Date : 14-JAN-2010 11:07
Client ID:
Sample Info: 500NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Lab Smp Id: 250NG-IC
Inj Date : 14-JAN-2010 11:29
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:53 Cal File: 147363.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1619446	250.000	
*	2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1224767	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	643485	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	413884	250.000	231.98
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	420968	250.000	230.13
$	6 Toluene-d8	98	8.090	8.090	(0.867)	1674621	250.000	252.22
$	7 Bromofluorobenzene	95	10.326	10.326	(0.913)	619481	250.000	259.63
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	364014	250.000	222.24
	9 Chloromethane	50	1.452	1.452	(0.220)	541644	250.000	228.74
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	425071	250.000	237.99
	12 Chloroethane	64	1.996	1.996	(0.303)	227426	250.000	215.92
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	419397	250.000	243.82
	15 Acrolein	56	2.730	2.730	(0.414)	439435	2500.00	2159.0
	16 Acetone	43	2.931	2.931	(0.444)	288152	500.000	422.56
	17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	370674	250.000	239.57
	18 Freon-113	151	2.884	2.884	(0.437)	310232	250.000	249.66
	19 Iodomethane	142	3.026	3.026	(0.459)	638457	250.000	242.10
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	1111139	250.000	250.72
	21 Methylene Chloride	84	3.499	3.499	(0.530)	434370	250.000	209.22
	22 Acetonitrile	41	3.286	3.286	(0.498)	508675	2500.00	2367.8
	23 Acrylonitrile	53	3.889	3.889	(0.589)	318167	500.000	499.18
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	1081213	250.000	268.96

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Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	430225	250.000	239.44
26	Hexane	86	4.386	4.386	(0.665)	103001	250.000	248.41
27	Vinyl acetate	43	4.694	4.694	(0.711)	589112	250.000	284.19
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	51446	250.000	278.53(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	786557	250.000	244.64
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	827918	5000.00	5651.8
30	2-Butanone	43	5.380	5.380	(0.815)	416209	500.000	501.54
M 31	1,2-Dichloroethene (total)	96				886685	500.000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	456460	250.000	247.94
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	326656	250.000	259.67
34	Bromochloromethane	128	5.605	5.605	(0.849)	217808	250.000	243.41
35	Chloroform	83	5.723	5.723	(0.867)	722890	250.000	245.28
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	133091	250.000	247.60
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	552049	250.000	259.06
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	581303	250.000	260.13
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	481856	250.000	260.16
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	546796	250.000	250.68
41	Benzene	78	6.303	6.303	(0.955)	1715431	250.000	245.07
42	Trichloroethene	130	6.966	6.966	(1.056)	478559	250.000	248.06
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	454374	250.000	259.11
44	1,4-Dioxane	88	7.309	7.309	(1.108)	211131	12500.0	14592
45	Dibromomethane	93	7.274	7.274	(1.102)	230786	250.000	258.43
46	Bromodichloromethane	83	7.439	7.439	(1.127)	477171	250.000	263.60
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	422388	500.000	639.99
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	606890	250.000	272.58
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	839579	500.000	567.65
50	Toluene	91	8.137	8.137	(0.872)	1877729	250.000	259.57
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.893)	526568	250.000	276.97
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	473697	250.000	314.44
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	336495	250.000	260.76
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	576278	250.000	266.55
55	Tetrachloroethene	164	8.623	8.623	(0.924)	378117	250.000	247.58
56	2-Hexanone	43	8.717	8.717	(0.934)	605081	500.000	593.81
57	Dibromochloromethane	129	8.836	8.836	(0.947)	376520	250.000	279.52
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	330577	250.000	265.32
59	Chlorobenzene	112	9.356	9.356	(1.003)	1235592	250.000	248.50
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	411090	250.000	260.68
61	Ethylbenzene	106	9.451	9.451	(1.013)	689482	250.000	269.03
62	m + p-Xylene	106	9.557	9.557	(1.024)	1672769	500.000	539.51
64	Xylene-o	106	9.889	9.889	(1.060)	789267	250.000	270.17
65	Styrene	104	9.900	9.900	(1.061)	1291118	250.000	278.03
66	Bromoform	173	10.054	10.054	(1.077)	232356	250.000	284.91
67	Isopropylbenzene	105	10.196	10.196	(1.093)	2058444	250.000	262.54
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	427354	250.000	270.74
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	138420	250.000	282.64
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	122385	250.000	267.54
71	Bromobenzene	156	10.457	10.457	(0.925)	497687	250.000	262.68
72	n-Propylbenzene	120	10.551	10.551	(0.933)	581642	250.000	264.04
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	486572	250.000	271.50
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1651064	250.000	270.62
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	506966	250.000	267.91
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	1539666	250.000	272.54
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1675434	250.000	269.03
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	2163556	250.000	266.30

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Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1782706	250.000	258.17
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	899764	250.000	250.13
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	913730	250.000	239.44
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1551747	250.000	258.99
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	824397	250.000	244.78
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	72772	250.000	267.14
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	582982	250.000	267.49
87	Naphthalene	128	13.178	13.178	(1.165)	1361478	250.000	271.43
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	351114	250.000	251.31
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	564311	250.000	262.85
98	Cyclohexane	56	5.960	5.960	(0.903)	999718	250.000	262.94
143	Methyl Acetate	43	3.392	3.392	(0.514)	767682	500.000	487.75
144	Methylcyclohexane	83	7.143	7.143	(1.082)	860368	250.000	264.67
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	675916	250.000	263.01

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

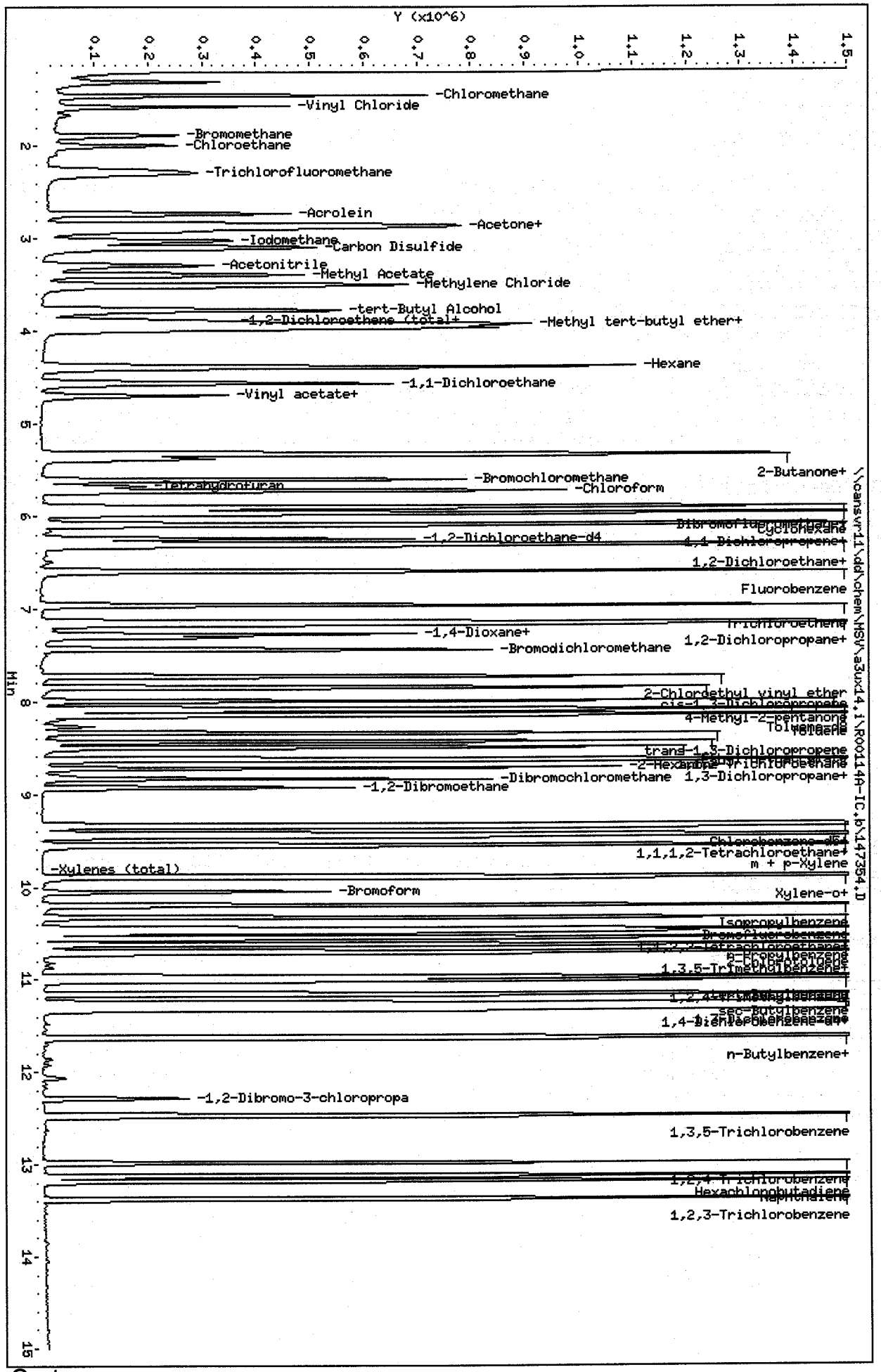
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147354.D
Lab Smp Id: 250NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1619446	0.00
2 Chlorobenzene-d5	1224767	612384	2449534	1224767	0.00
3 1,4-Dichlorobenze	643485	321743	1286970	643485	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\HSV\a3ux14.i\R001140-IC.b\147354.D
Date : 14-JAN-2010 11:29
Client ID:
Sample Info: 250NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Lab Smp Id: 100NG-IC
Inj Date : 14-JAN-2010 11:51
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 100NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	6.599	6.599	(1.000)	1524542	250.000	
* 2	Chlorobenzene-d5	117	9.333	9.333	(1.000)	1117293	250.000	
* 3	1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	622493	250.000	
$ 4	Dibromofluoromethane	113	5.901	5.901	(0.894)	159829	100.000	95.159
$ 5	1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	170851	100.000	99.214
$ 6	Toluene-d8	98	8.090	8.090	(0.867)	591596	100.000	97.671
$ 7	Bromofluorobenzene	95	10.327	10.327	(0.913)	222771	100.000	96.515
8	Dichlorodifluoromethane	85	1.310	1.310	(0.199)	157552	100.000	102.18
9	Chloromethane	50	1.452	1.452	(0.220)	216823	100.000	97.264
10	Vinyl Chloride	62	1.570	1.570	(0.238)	171915	100.000	102.24
12	Chloroethane	64	1.996	1.996	(0.303)	92672	100.000	93.458
13	Trichlorofluoromethane	101	2.280	2.280	(0.346)	168340	100.000	103.96
15	Acrolein	56	2.730	2.730	(0.414)	212537	1000.00	1109.2
16	Acetone	43	2.931	2.931	(0.444)	130272	200.000	202.93
17	1,1-Dichloroethene	96	2.860	2.860	(0.433)	146545	100.000	100.61
18	Freon-113	151	2.895	2.895	(0.439)	121696	100.000	104.03
19	Iodomethane	142	3.026	3.026	(0.459)	243565	100.000	98.109
20	Carbon Disulfide	76	3.097	3.097	(0.469)	413393	100.000	99.087
21	Methylene Chloride	84	3.511	3.511	(0.532)	190625	100.000	97.534
22	Acetonitrile	41	3.298	3.298	(0.500)	208855	1000.00	1032.7
23	Acrylonitrile	53	3.889	3.889	(0.589)	131345	200.000	218.90
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	399967	100.000	105.69

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	167162	100.000	98.825
26	Hexane	86	4.398	4.398	(0.666)	38663	100.000	99.048
27	Vinyl acetate	43	4.694	4.694	(0.711)	204087	100.000	104.58
154	Vinyl Acetate**2nd**	86	4.706	4.706	(0.713)	17224	100.000	99.058(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	304389	100.000	100.57
29	tert-Butyl Alcohol	59	3.783	3.783	(0.573)	294803	2000.00	2137.8
30	2-Butanone	43	5.380	5.380	(0.815)	157415	200.000	201.50
M 31	1,2-Dichloroethene (total)	96				344674	200.000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	177512	100.000	102.42
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	119677	100.000	101.06
34	Bromochloromethane	128	5.605	5.605	(0.849)	82903	100.000	98.414
35	Chloroform	83	5.724	5.724	(0.867)	277362	100.000	99.971
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	49016	100.000	96.865
37	1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	200408	100.000	99.898
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	218336	100.000	103.79
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	177493	100.000	101.79
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	209132	100.000	101.84
41	Benzene	78	6.303	6.303	(0.955)	641858	100.000	97.405
42	Trichloroethene	130	6.966	6.966	(1.056)	178035	100.000	98.029
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	165683	100.000	100.36
44	1,4-Dioxane	88	7.309	7.309	(1.108)	77848	5000.00	5715.2
45	Dibromomethane	93	7.274	7.274	(1.102)	82647	100.000	98.308
46	Bromodichloromethane	83	7.439	7.439	(1.127)	173236	100.000	101.66
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	134569	200.000	216.59
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	204616	100.000	97.624
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	295572	200.000	219.06
50	Toluene	91	8.149	8.149	(0.873)	657053	100.000	99.566
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	164610	100.000	94.913
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	145998	100.000	106.24
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	119280	100.000	101.32
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	199819	100.000	101.31
55	Tetrachloroethene	164	8.623	8.623	(0.924)	137025	100.000	98.352
56	2-Hexanone	43	8.717	8.717	(0.934)	201802	200.000	217.09
57	Dibromochloromethane	129	8.836	8.836	(0.947)	126112	100.000	102.63
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	117844	100.000	103.68
59	Chlorobenzene	112	9.356	9.356	(1.003)	444051	100.000	97.896
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	147909	100.000	102.81
61	Ethylbenzene	106	9.451	9.451	(1.013)	240099	100.000	102.70
62	m + p-Xylene	106	9.557	9.557	(1.024)	593956	200.000	209.99
64	Xylene-o	106	9.889	9.889	(1.060)	280569	100.000	105.28
65	Styrene	104	9.901	9.901	(1.061)	444614	100.000	104.95
66	Bromoform	173	10.054	10.054	(1.077)	75491	100.000	101.47
67	Isopropylbenzene	105	10.196	10.196	(1.093)	748072	100.000	104.59
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	154708	100.000	101.32
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	48194	100.000	101.72
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	43723	100.000	98.804
71	Bromobenzene	156	10.457	10.457	(0.925)	183855	100.000	100.31
72	n-Propylbenzene	120	10.551	10.551	(0.933)	212438	100.000	99.688
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	186417	100.000	107.53
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	623528	100.000	105.64
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	190557	100.000	104.10
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	562162	100.000	102.86
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	628333	100.000	104.30
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	801317	100.000	101.95

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	657645	100.000	98.452
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	345050	100.000	99.157
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	356765	100.000	96.641
82	n-Butylbenzene	91	11.616	11.616	(1.027)	557485	100.000	96.184
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	324984	100.000	99.748
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	26408	100.000	100.21
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	213187	100.000	101.11
87	Naphthalene	128	13.178	13.178	(1.165)	501916	100.000	103.44
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	136835	100.000	101.24
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	220567	100.000	106.20
98	Cyclohexane	56	5.972	5.972	(0.905)	374397	100.000	104.60
143	Methyl Acetate	43	3.392	3.392	(0.514)	302568	200.000	204.20
144	Methylcyclohexane	83	7.143	7.143	(1.082)	316390	100.000	103.39
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	248493	100.000	99.953

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

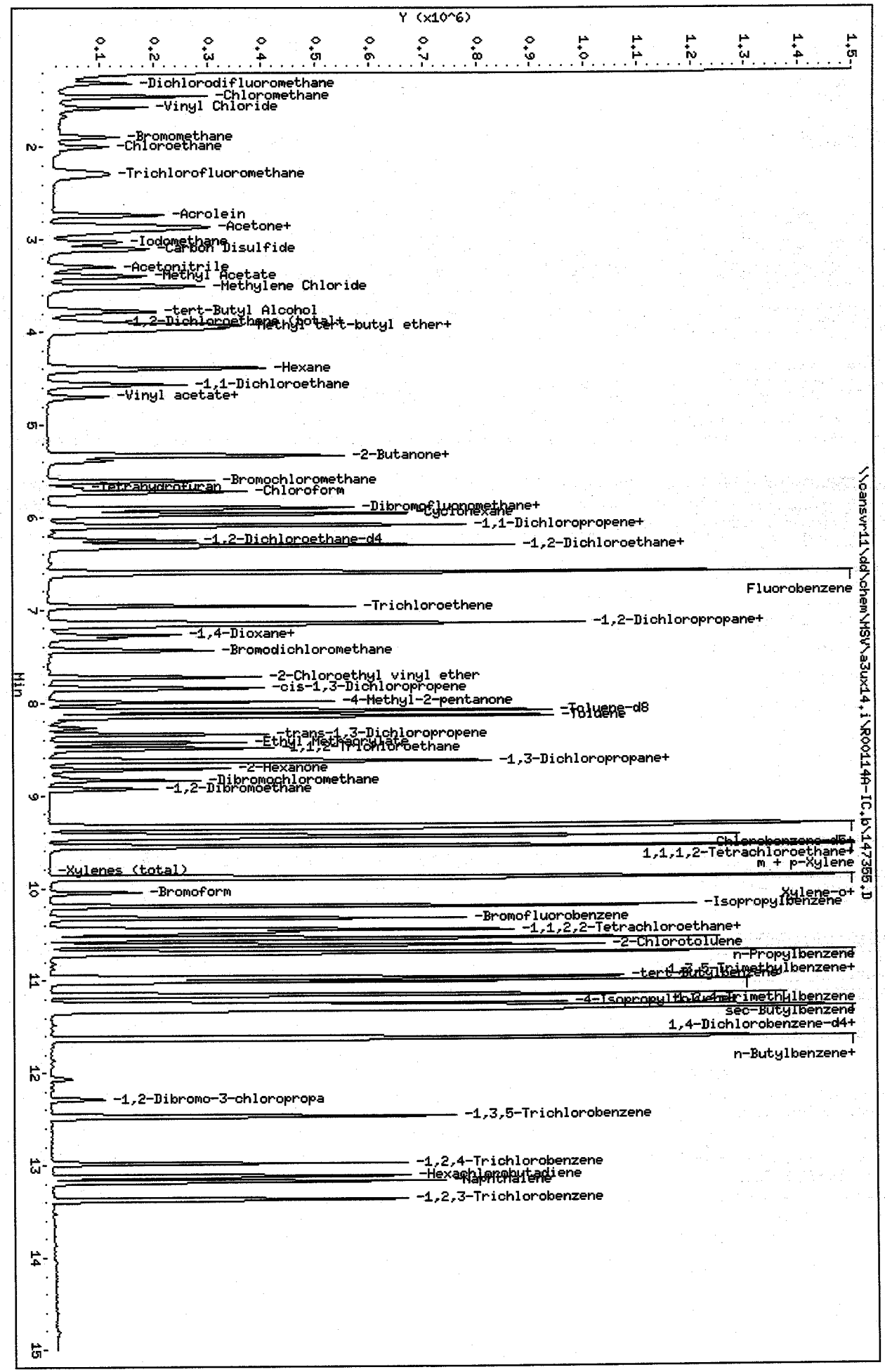
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147355.D
Lab Smp Id: 100NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1524542	-5.86
2 Chlorobenzene-d5	1224767	612384	2449534	1117293	-8.78
3 1,4-Dichlorobenze	643485	321743	1286970	622493	-3.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D
Date : 14-JAN-2010 11:51
Client ID:
Sample Info: 100NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Lab Smp Id: 50NG-IC
Inj Date : 14-JAN-2010 12:14
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:39 Cal File: 147365.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1463571	250.000	
*	2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1080998	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	616871	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	76759	50.0000	47.604
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	82563	50.0000	49.942
$	6 Toluene-d8	98	8.090	8.090	(0.867)	281363	50.0000	48.012
$	7 Bromofluorobenzene	95	10.326	10.326	(0.913)	110713	50.0000	48.403
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	77815	50.0000	52.567
	9 Chloromethane	50	1.452	1.452	(0.220)	109690	50.0000	51.255
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	82970	50.0000	51.400
	12 Chloroethane	64	1.996	1.996	(0.303)	48552	50.0000	51.004
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	83485	50.0000	53.704
	15 Acrolein	56	2.730	2.730	(0.414)	89612	500.000	487.16
	16 Acetone	43	2.931	2.931	(0.444)	72936	100.000	118.35
	17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	70966	50.0000	50.750
	18 Freon-113	151	2.884	2.884	(0.437)	59930	50.0000	53.365
	19 Iodomethane	142	3.026	3.026	(0.459)	122149	50.0000	51.252
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	204194	50.0000	50.982
	21 Methylene Chloride	84	3.511	3.511	(0.532)	109609	50.0000	58.418
	22 Acetonitrile	41	3.298	3.298	(0.500)	100062	500.000	515.39
	23 Acrylonitrile	53	3.889	3.889	(0.589)	58829	100.000	102.13
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	186667	50.0000	51.381

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	82296	50.0000	50.680
26	Hexane	86	4.386	4.386	(0.665)	18166	50.0000	48.477
27	Vinyl acetate	43	4.694	4.694	(0.711)	88798	50.0000	47.398
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	7596	50.0000	45.506 (A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	147729	50.0000	50.841
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	131129	1000.00	990.49
30	2-Butanone	43	5.380	5.380	(0.815)	72329	100.000	96.440
M 31	1,2-Dichloroethene (total)	96				168654	100.000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	86358	50.0000	51.903
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	58168	50.0000	51.164
34	Bromochloromethane	128	5.605	5.605	(0.849)	40704	50.0000	50.333
35	Chloroform	83	5.723	5.723	(0.867)	136764	50.0000	51.348
36	Tetrahydrofuran	42	5.688	5.688	(0.862)	23581	50.0000	48.542
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	102584	50.0000	53.266
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	105034	50.0000	52.008
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	89315	50.0000	53.357
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	96980	50.0000	49.196
41	Benzene	78	6.303	6.303	(0.955)	320643	50.0000	50.686
42	Trichloroethene	130	6.966	6.966	(1.056)	89775	50.0000	51.491
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	79696	50.0000	50.287
44	1,4-Dioxane	88	7.309	7.309	(1.108)	34138	2500.00	2610.6
45	Dibromomethane	93	7.274	7.274	(1.102)	40622	50.0000	50.332
46	Bromodichloromethane	83	7.439	7.439	(1.127)	82425	50.0000	50.382
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	55693	100.000	93.372
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	92612	50.0000	46.027
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	125166	100.000	95.881
50	Toluene	91	8.137	8.137	(0.872)	316964	50.0000	49.643
51	trans-1,3-Dichloropropene	75	8.338	8.338	(0.893)	74151	50.0000	44.190
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	60861	50.0000	45.773
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	54001	50.0000	47.412
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	94748	50.0000	49.652
55	Tetrachloroethene	164	8.622	8.622	(0.924)	68765	50.0000	51.014
56	2-Hexanone	43	8.717	8.717	(0.934)	82817	100.000	92.084
57	Dibromochloromethane	129	8.835	8.835	(0.947)	59231	50.0000	49.820
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	53071	50.0000	48.260
59	Chlorobenzene	112	9.356	9.356	(1.003)	217526	50.0000	49.566
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	71037	50.0000	51.037
61	Ethylbenzene	106	9.451	9.451	(1.013)	115843	50.0000	51.213
62	m + p-Xylene	106	9.557	9.557	(1.024)	288517	100.000	105.43
64	Xylene-o	106	9.889	9.889	(1.060)	134194	50.0000	52.044
65	Styrene	104	9.900	9.900	(1.061)	199347	50.0000	48.637
66	Bromoform	173	10.054	10.054	(1.077)	34675	50.0000	48.172
67	Isopropylbenzene	105	10.196	10.196	(1.093)	350644	50.0000	50.671
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	74500	50.0000	49.233
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	22765	50.0000	48.489
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	21471	50.0000	48.962
71	Bromobenzene	156	10.457	10.457	(0.925)	88463	50.0000	48.706
72	n-Propylbenzene	120	10.551	10.551	(0.933)	98133	50.0000	46.469
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	87448	50.0000	50.900
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	290336	50.0000	49.640
75	4-Chlorotoluene	126	10.705	10.705	(0.947)	93314	50.0000	51.440
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	263096	50.0000	48.580
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	298774	50.0000	50.045
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	382601	50.0000	49.124

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	307172	50.0000	46.404
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	168793	50.0000	48.948
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	176132	50.0000	48.146
82	n-Butylbenzene	91	11.616	11.616	(1.027)	265064	50.0000	46.149
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	159501	50.0000	49.402
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	12339	50.0000	47.249
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	102810	50.0000	49.207
87	Naphthalene	128	13.178	13.178	(1.165)	218045	50.0000	45.346
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	63481	50.0000	47.398
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	100686	50.0000	48.922
98	Cyclohexane	56	5.960	5.960	(0.903)	172564	50.0000	50.221
143	Methyl Acetate	43	3.392	3.392	(0.514)	139260	100.000	97.903
144	Methylcyclohexane	83	7.143	7.143	(1.082)	148556	50.0000	50.566
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	118897	50.0000	48.260

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147356.D
Lab Smp Id: 50NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,4

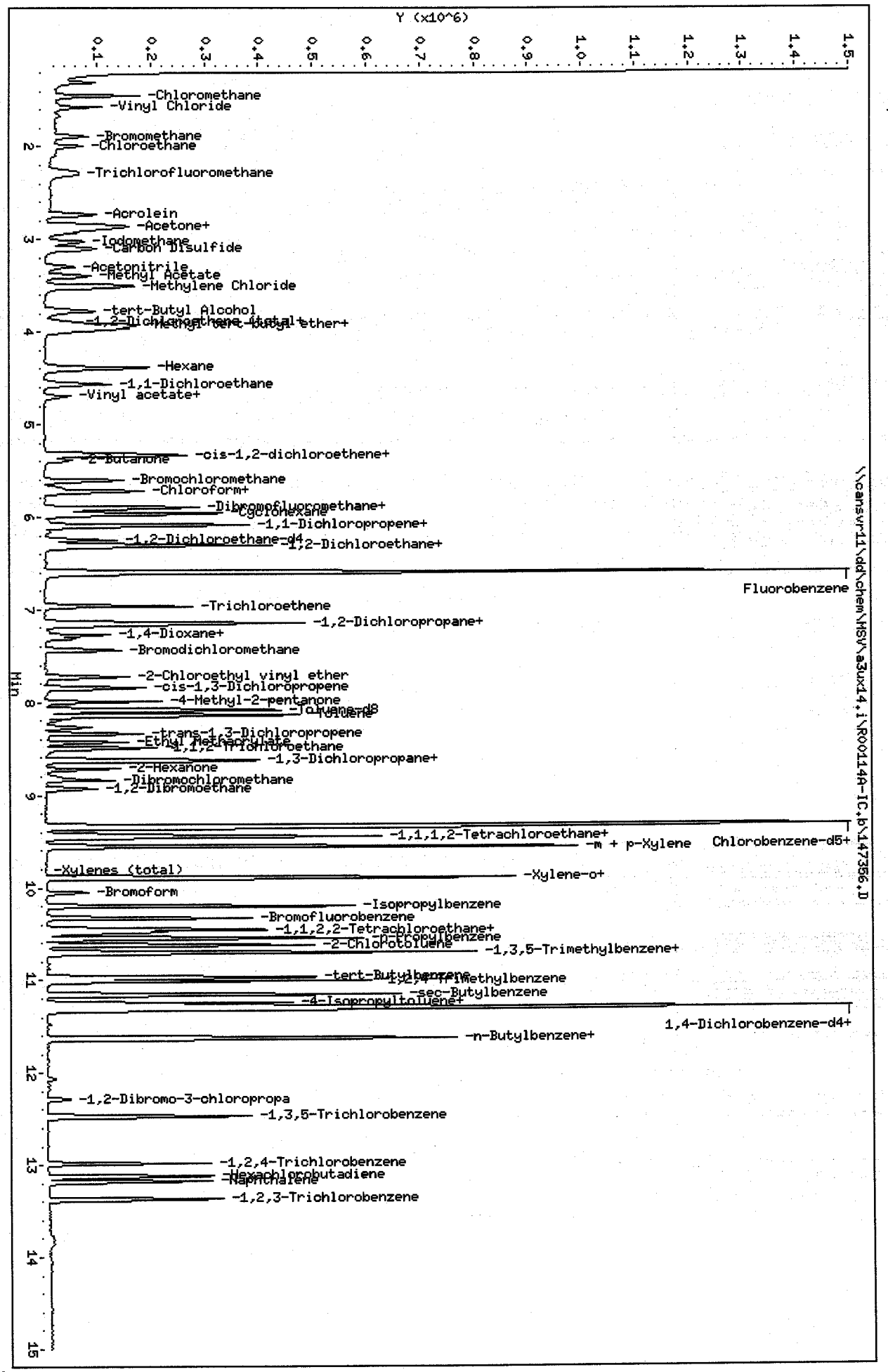
Calibration Date: 14-JAN-2010
Calibration Time: 11:29

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1463571	-9.63
2 Chlorobenzene-d5	1224767	612384	2449534	1080998	-11.74
3 1,4-Dichlorobenze	643485	321743	1286970	616871	-4.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\HSV\a3ux14,i\R00114A-IC,b\147356,D
Date : 14-JAN-2010 12:14
Client ID:
Sample Info: 50NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14,i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Lab Smp Id: 25NG-IC
Inj Date : 14-JAN-2010 12:36
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 25NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:03 Cal File: 147366.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1458359	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1056066	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	618283	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	40283	25.0000	25.072
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	44575	25.0000	27.060
$	6 Toluene-d8	98	8.090	8.090	(0.867)	139454	25.0000	24.358
$	7 Bromofluorobenzene	95	10.327	10.327	(0.913)	57323	25.0000	25.004
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	42747	25.0000	28.981
	9 Chloromethane	50	1.452	1.452	(0.220)	56339	25.0000	26.420
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	43093	25.0000	26.792
	12 Chloroethane	64	1.996	1.996	(0.303)	25001	25.0000	26.357
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	40226	25.0000	25.969
	15 Acrolein	56	2.742	2.742	(0.416)	47730	250.000	260.40
	16 Acetone	43	2.943	2.943	(0.446)	45722	50.0000	74.454
	17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	36277	25.0000	26.036
	18 Freon-113	151	2.896	2.896	(0.439)	28657	25.0000	25.609
	19 Iodomethane	142	3.026	3.026	(0.459)	60346	25.0000	25.411
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	99492	25.0000	24.930
	21 Methylene Chloride	84	3.511	3.511	(0.532)	66631	25.0000	35.639
	22 Acetonitrile	41	3.298	3.298	(0.500)	51022	250.000	263.74
	23 Acrylonitrile	53	3.890	3.890	(0.589)	27794	50.0000	48.424
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	85837	25.0000	23.711

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.937	3.937	(0.597)	41047	25.0000	25.368
26	Hexane	86	4.398	4.398	(0.666)	9256	25.0000	24.788
27	Vinyl acetate	43	4.694	4.694	(0.711)	40408	25.0000	21.646
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	3247	25.0000	19.521(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	75301	25.0000	26.008
29	tert-Butyl Alcohol	59	3.783	3.783	(0.573)	60293	500.000	457.05
30	2-Butanone	43	5.392	5.392	(0.817)	33392	50.0000	44.683
M 31	1,2-Dichloroethene (total)	96				82841	50.0000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	41794	25.0000	25.209
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	26605	25.0000	23.485
34	Bromochloromethane	128	5.605	5.605	(0.849)	20156	25.0000	25.013
35	Chloroform	83	5.724	5.724	(0.867)	66642	25.0000	25.110
36	Tetrahydrofuran	42	5.688	5.688	(0.862)	12410	25.0000	25.637
37	1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	46501	25.0000	24.232
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	51061	25.0000	25.373
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	40999	25.0000	24.580
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	51559	25.0000	26.248
41	Benzene	78	6.303	6.303	(0.955)	158995	25.0000	25.223
42	Trichloroethene	130	6.966	6.966	(1.056)	42633	25.0000	24.540
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	39343	25.0000	24.914
44	1,4-Dioxane	88	7.321	7.321	(1.109)	15184	1250.00	1165.3
45	Dibromomethane	93	7.274	7.274	(1.102)	20490	25.0000	25.479
46	Bromodichloromethane	83	7.439	7.439	(1.127)	38025	25.0000	23.326
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	23645	50.0000	39.784
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	40230	25.0000	20.065
49	4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	53715	50.0000	42.119
50	Toluene	91	8.149	8.149	(0.873)	153825	25.0000	24.661
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	33225	25.0000	20.268
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	27032	25.0000	20.811
53	1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	28621	25.0000	25.722
54	1,3-Dichloropropane	76	8.635	8.635	(0.925)	46308	25.0000	24.840
55	Tetrachloroethene	164	8.623	8.623	(0.924)	34411	25.0000	26.131
56	2-Hexanone	43	8.717	8.717	(0.934)	36831	50.0000	41.919
57	Dibromochloromethane	129	8.836	8.836	(0.947)	25619	25.0000	22.057
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	25227	25.0000	23.482
59	Chlorobenzene	112	9.356	9.356	(1.003)	105867	25.0000	24.693
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	32575	25.0000	23.956
61	Ethylbenzene	106	9.451	9.451	(1.013)	52596	25.0000	23.801
62	m + p-Xylene	106	9.558	9.558	(1.024)	131100	50.0000	49.038
64	Xylene-o	106	9.889	9.889	(1.060)	59806	25.0000	23.742
65	Styrene	104	9.901	9.901	(1.061)	87994	25.0000	21.976
66	Bromoform	173	10.054	10.054	(1.077)	14863	25.0000	21.136
67	Isopropylbenzene	105	10.196	10.196	(1.093)	158090	25.0000	23.384
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	35362	25.0000	23.316
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	9788	25.0000	20.801
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	10615	25.0000	24.151
71	Bromobenzene	156	10.457	10.457	(0.925)	43431	25.0000	23.858
72	n-Propylbenzene	120	10.551	10.551	(0.933)	44997	25.0000	21.259
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	41522	25.0000	24.113
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	130679	25.0000	22.292
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	45182	25.0000	24.850
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	121534	25.0000	22.390
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	137019	25.0000	22.898
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	181887	25.0000	23.300

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	142199	25.0000	21.433
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	84649	25.0000	24.491
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	91975	25.0000	25.084
82	n-Butylbenzene	91	11.616	11.616	(1.027)	123143	25.0000	21.391
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	81988	25.0000	25.336
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	5733	25.0000	21.903
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	47317	25.0000	22.595
87	Naphthalene	128	13.178	13.178	(1.165)	90083	25.0000	18.691
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	31747	25.0000	23.650
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	46925	25.0000	22.748
98	Cyclohexane	56	5.972	5.972	(0.905)	77499	25.0000	22.635
143	Methyl Acetate	43	3.404	3.404	(0.516)	68922	50.0000	48.627
144	Methylcyclohexane	83	7.144	7.144	(1.082)	68076	25.0000	23.255
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	59916	25.0000	24.264

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

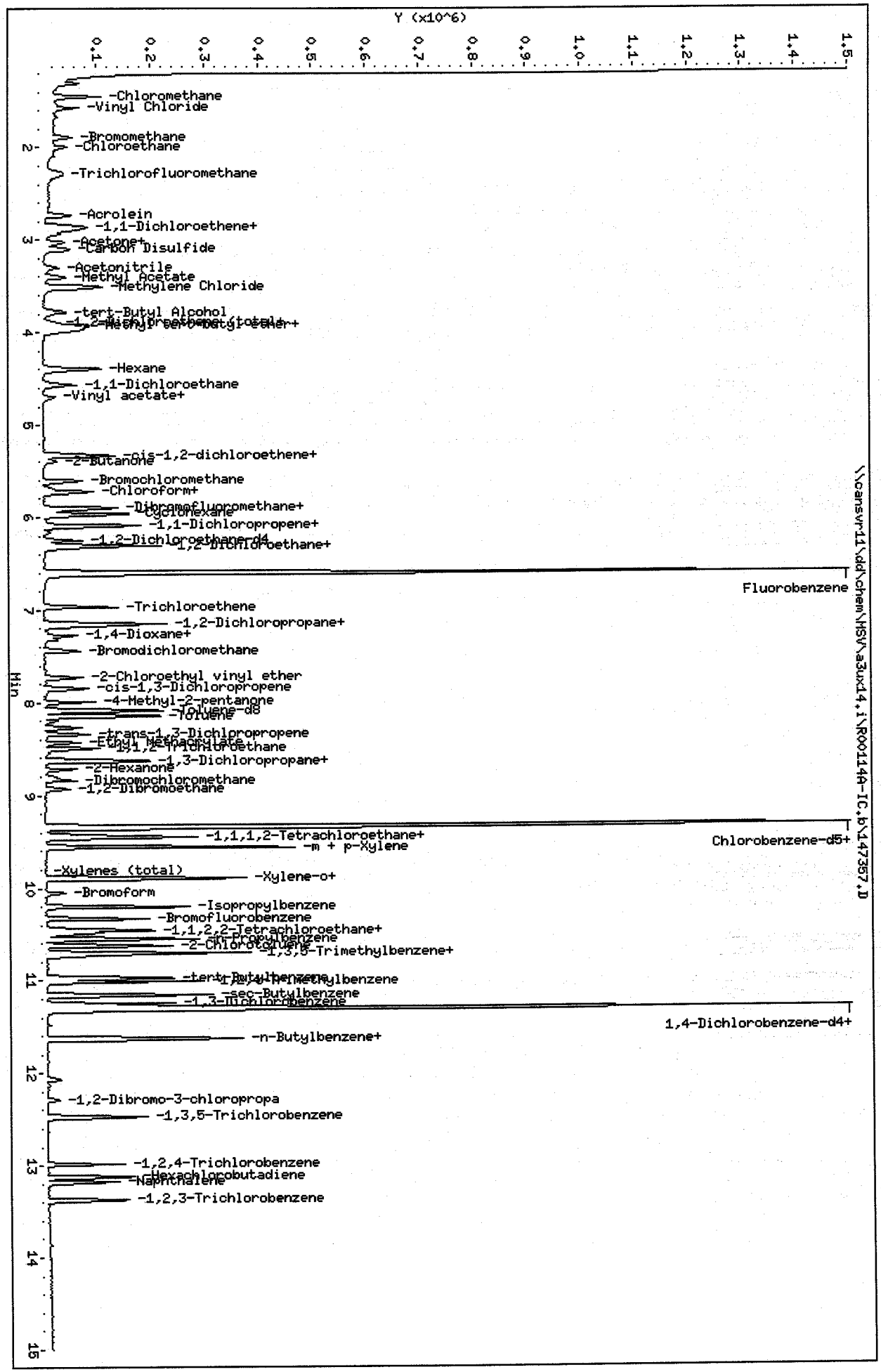
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147357.D
Lab Smp Id: 25NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1458359	-9.95
2 Chlorobenzene-d5	1224767	612384	2449534	1056066	-13.77
3 1,4-Dichlorobenze	643485	321743	1286970	618283	-3.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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Date : 14-JAN-2010 12:36
Client ID:
Sample Info: 25NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R001140-IC.b\147357.D
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Lab Smp Id: 10NG-IC
Inj Date : 14-JAN-2010 12:59
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 10NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:27 Cal File: 147367.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1356303	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1001973	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	569171	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	16252	10.0000	10.876
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	18464	10.0000	12.052
$	6 Toluene-d8	98	8.090	8.090	(0.867)	51325	10.0000	9.449
$	7 Bromofluorobenzene	95	10.327	10.327	(0.913)	22887	10.0000	10.845
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	12281	10.0000	8.952
	9 Chloromethane	50	1.452	1.452	(0.220)	19798	10.0000	9.983
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	15372	10.0000	10.276
	12 Chloroethane	64	1.996	1.996	(0.303)	9754	10.0000	11.057
	13 Trichlorofluoromethane	101	2.280	2.280	(0.346)	13307	10.0000	9.237
	15 Acrolein	56	2.730	2.730	(0.414)	19778	100.000	116.02
	16 Acetone	43	2.931	2.931	(0.444)	27842	20.0000	48.750
	17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	12381	10.0000	9.554
	18 Freon-113	151	2.884	2.884	(0.437)	9942	10.0000	9.553
	19 Iodomethane	142	3.026	3.026	(0.459)	22706	10.0000	10.280
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	36467	10.0000	9.825
	21 Methylene Chloride	84	3.511	3.511	(0.532)	43300	10.0000	24.903
	22 Acetonitrile	41	3.298	3.298	(0.500)	21714	100.000	120.69
	23 Acrylonitrile	53	3.890	3.890	(0.589)	10994	20.0000	20.595
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	30383	10.0000	9.024

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	15115	10.0000	10.044
	26 Hexane	86	4.398	4.398	(0.666)	3211	10.0000	9.246
	27 Vinyl acetate	43	4.694	4.694	(0.711)	14418	10.0000	8.305
	154 Vinyl Acetate**2nd**	86	4.706	4.706	(0.713)	1148	10.0000	7.421(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	27135	10.0000	10.077
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	21779	200.000	177.52
	30 2-Butanone	43	5.392	5.392	(0.817)	14454	20.0000	20.796
M	31 1,2-Dichloroethene (total)	96				30217	20.0000	
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	15102	10.0000	9.794
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	9587	10.0000	9.100
	34 Bromochloromethane	128	5.605	5.605	(0.849)	7484	10.0000	9.986
	35 Chloroform	83	5.724	5.724	(0.867)	24256	10.0000	9.827
	36 Tetrahydrofuran	42	5.688	5.688	(0.862)	5059	10.0000	11.238
	37 1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	16829	10.0000	9.429
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	16552	10.0000	8.844
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	15047	10.0000	9.700
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	17776	10.0000	9.730
	41 Benzene	78	6.303	6.303	(0.955)	60909	10.0000	10.390
	42 Trichloroethene	130	6.966	6.966	(1.056)	16673	10.0000	10.319
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	14391	10.0000	9.799
	44 1,4-Dioxane	88	7.321	7.321	(1.109)	4795	500.000	395.69
	45 Dibromomethane	93	7.274	7.274	(1.102)	6849	10.0000	9.157
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	14054	10.0000	9.270
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	7878	20.0000	14.252
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	13722	10.0000	7.359
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	19225	20.0000	15.888
	50 Toluene	91	8.138	8.138	(0.872)	55483	10.0000	9.375
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	11733	10.0000	7.544
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	8671	10.0000	7.036
	53 1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	9921	10.0000	9.397
	54 1,3-Dichloropropane	76	8.635	8.635	(0.925)	16803	10.0000	9.500
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	12388	10.0000	9.915
	56 2-Hexanone	43	8.717	8.717	(0.934)	13235	20.0000	15.877
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	9391	10.0000	8.522
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	9000	10.0000	8.830
	59 Chlorobenzene	112	9.356	9.356	(1.003)	41241	10.0000	10.138
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	12574	10.0000	9.746
	61 Ethylbenzene	106	9.451	9.451	(1.013)	19725	10.0000	9.408
	62 m + p-Xylene	106	9.557	9.557	(1.024)	45348	20.0000	17.878
	64 Xylene-o	106	9.889	9.889	(1.060)	21615	10.0000	9.044
	65 Styrene	104	9.901	9.901	(1.061)	28792	10.0000	7.579
	66 Bromoform	173	10.054	10.054	(1.077)	5798	10.0000	8.690
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	49371	10.0000	7.697
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	14099	10.0000	10.098
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	3853	10.0000	8.895
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	4170	10.0000	10.306
	71 Bromobenzene	156	10.457	10.457	(0.925)	16305	10.0000	9.730
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	13321	10.0000	6.837
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	13684	10.0000	8.632
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	39148	10.0000	7.254
	75 4-Chlorotoluene	126	10.705	10.705	(0.947)	14971	10.0000	8.944
	76 tert-Butylbenzene	119	10.977	10.977	(0.971)	37681	10.0000	7.541
	77 1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	39477	10.0000	7.167
	78 sec-Butylbenzene	105	11.155	11.155	(0.986)	51764	10.0000	7.203

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	39794	10.0000	6.515
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	31768	10.0000	9.984
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	33681	10.0000	9.978
82	n-Butylbenzene	91	11.616	11.616	(1.027)	36528	10.0000	6.893
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	30480	10.0000	10.232
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	2080	10.0000	8.632
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	17257	10.0000	8.952
87	Naphthalene	128	13.178	13.178	(1.165)	30253	10.0000	6.819
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	11874	10.0000	9.609
88	1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	17720	10.0000	9.331
98	Cyclohexane	56	5.960	5.960	(0.903)	25574	10.0000	8.031
143	Methyl Acetate	43	3.404	3.404	(0.516)	28015	20.0000	21.253
144	Methylcyclohexane	83	7.144	7.144	(1.082)	20465	10.0000	7.517
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	21462	10.0000	9.442

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147358.D
Lab Smp Id: 10NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1356303	-16.25
2 Chlorobenzene-d5	1224767	612384	2449534	1001973	-18.19
3 1,4-Dichlorobenze	643485	321743	1286970	569171	-11.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\a3ux14.i\R00114A-IC.b\147358.D
Date : 14-JAN-2010 12:59
Client ID:
Sample Info: 10NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-1,4-Dioxane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-Trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\HSV\a3ux14.i\R00114A-IC.b\147358.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Lab Smp Id: 5NG-IC
Inj Date : 14-JAN-2010 13:21
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 5NG-IC
Misc Info : R00114A-IC,8260SUX14,1-8260.SUB,2807,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:14 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:50 Cal File: 147368.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1372183	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1002461	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	555022	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	9676	5.00000	6.400
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	11539	5.00000	7.445
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	32138	5.00000	5.914
$ 7 Bromofluorobenzene	95	10.326	10.326	(0.913)	15167	5.00000	7.370
8 Dichlorodifluoromethane	85	1.310	1.310	(0.199)	6727	5.00000	4.847
9 Chloromethane	50	1.452	1.452	(0.220)	11735	5.00000	5.849
10 Vinyl Chloride	62	1.570	1.570	(0.238)	7286	5.00000	4.814
12 Chloroethane	64	1.996	1.996	(0.303)	5400	5.00000	6.050
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	6325	5.00000	4.340
15 Acrolein	56	2.742	2.742	(0.415)	9606	50.0000	55.699
16 Acetone	43	2.943	2.943	(0.446)	24140	10.0000	41.779
17 1,1-Dichloroethene	96	2.860	2.860	(0.433)	7010	5.00000	5.347
18 Freon-113	151	2.895	2.895	(0.439)	4388	5.00000	4.168
19 Iodomethane	142	3.037	3.037	(0.460)	11304	5.00000	5.059
20 Carbon Disulfide	76	3.108	3.108	(0.471)	16799	5.00000	4.474
21 Methylene Chloride	84	3.511	3.511	(0.532)	35816	5.00000	20.360
22 Acetonitrile	41	3.298	3.298	(0.500)	12466	50.0000	68.485
23 Acrylonitrile	53	3.901	3.901	(0.591)	5419	10.0000	10.034
24 Methyl tert-butyl ether	73	3.984	3.984	(0.604)	14574	5.00000	4.279

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.937	3.937	(0.597)	8315	5.00000	5.462
26	Hexane	86	4.398	4.398	(0.666)	1871	5.00000	5.325
27	Vinyl acetate	43	4.694	4.694	(0.711)	7645	5.00000	4.352
154	Vinyl Acetate**2nd**	86	4.706	4.706	(0.713)	680	5.00000	4.345(aA)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	13067	5.00000	4.796
29	tert-Butyl Alcohol	59	3.783	3.783	(0.573)	11995	100.000	96.639
30	2-Butanone	43	5.392	5.392	(0.817)	8724	10.0000	12.407
M 31	1,2-Dichloroethene (total)	96				15763	10.0000	
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	7448	5.00000	4.774
34	Bromochloromethane	128	5.617	5.617	(0.851)	4258	5.00000	5.616
35	Chloroform	83	5.723	5.723	(0.867)	12911	5.00000	5.170
36	Tetrahydrofuran	42	5.688	5.688	(0.862)	3656	5.00000	8.027
37	1,1,1-Trichloroethane	97	5.913	5.913	(0.896)	8120	5.00000	4.497
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	7874	5.00000	4.158
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	6150	5.00000	3.919
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	9644	5.00000	5.218
41	Benzene	78	6.303	6.303	(0.955)	29730	5.00000	5.013
42	Trichloroethene	130	6.966	6.966	(1.056)	7968	5.00000	4.874
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	6926	5.00000	4.661
44	1,4-Dioxane	88	7.321	7.321	(1.109)	2587	250.000	211.01
45	Dibromomethane	93	7.274	7.274	(1.102)	4148	5.00000	5.482
46	Bromodichloromethane	83	7.439	7.439	(1.127)	6789	5.00000	4.426
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	6079	5.00000	3.222
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	9457	10.0000	7.812
50	Toluene	91	8.149	8.149	(0.873)	27677	5.00000	4.674
51	trans-1,3-Dichloropropene	75	8.338	8.338	(0.893)	6272	5.00000	4.031
52	Ethyl Methacrylate	69	8.433	8.433	(0.904)	4328	5.00000	3.510
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	5544	5.00000	5.249
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	8265	5.00000	4.670
55	Tetrachloroethene	164	8.622	8.622	(0.924)	5917	5.00000	4.734
56	2-Hexanone	43	8.717	8.717	(0.934)	5958	10.0000	7.144
57	Dibromochloromethane	129	8.835	8.835	(0.947)	4605	5.00000	4.177
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	5369	5.00000	5.265
59	Chlorobenzene	112	9.356	9.356	(1.003)	21534	5.00000	5.291
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	5640	5.00000	4.370
61	Ethylbenzene	106	9.451	9.451	(1.013)	8713	5.00000	4.154
62	m + p-Xylene	106	9.557	9.557	(1.024)	20492	10.0000	8.075
64	Xylene-o	106	9.889	9.889	(1.060)	10317	5.00000	4.315
65	Styrene	104	9.900	9.900	(1.061)	13216	5.00000	3.477
66	Bromoform	173	10.054	10.054	(1.077)	2786	5.00000	4.174
67	Isopropylbenzene	105	10.196	10.196	(1.093)	22834	5.00000	3.558
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	6378	5.00000	4.685
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	1956	5.00000	4.630
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	1906	5.00000	4.831
71	Bromobenzene	156	10.457	10.457	(0.925)	7878	5.00000	4.821
72	n-Propylbenzene	120	10.551	10.551	(0.933)	6182	5.00000	3.254
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	6188	5.00000	4.003
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	16183	5.00000	3.075
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	7022	5.00000	4.302
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	15330	5.00000	3.146
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	17135	5.00000	3.190
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	21791	5.00000	3.110
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	17593	5.00000	2.954
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	15514	5.00000	5.000

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Report Date: 15-Jan-2010 11:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	19341	5.00000	5.876
82	n-Butylbenzene	91	11.616	11.616	(1.027)	17576	5.00000	3.401
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	14785	5.00000	5.090
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	742	5.00000	3.158
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	8165	5.00000	4.343
87	Naphthalene	128	13.178	13.178	(1.165)	15306	5.00000	3.538
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	5734	5.00000	4.758
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	8792	5.00000	4.748
98	Cyclohexane	56	5.972	5.972	(0.905)	11321	5.00000	3.514
143	Methyl Acetate	43	3.404	3.404	(0.516)	15423	10.0000	11.565
144	Methylcyclohexane	83	7.143	7.143	(1.082)	9099	5.00000	3.303
141	1,3,5-Trichlorobenzene	180	12.468	12.468	(1.103)	9915	5.00000	4.473

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Report Date: 15-Jan-2010 11:14

TestAmerica North Canton

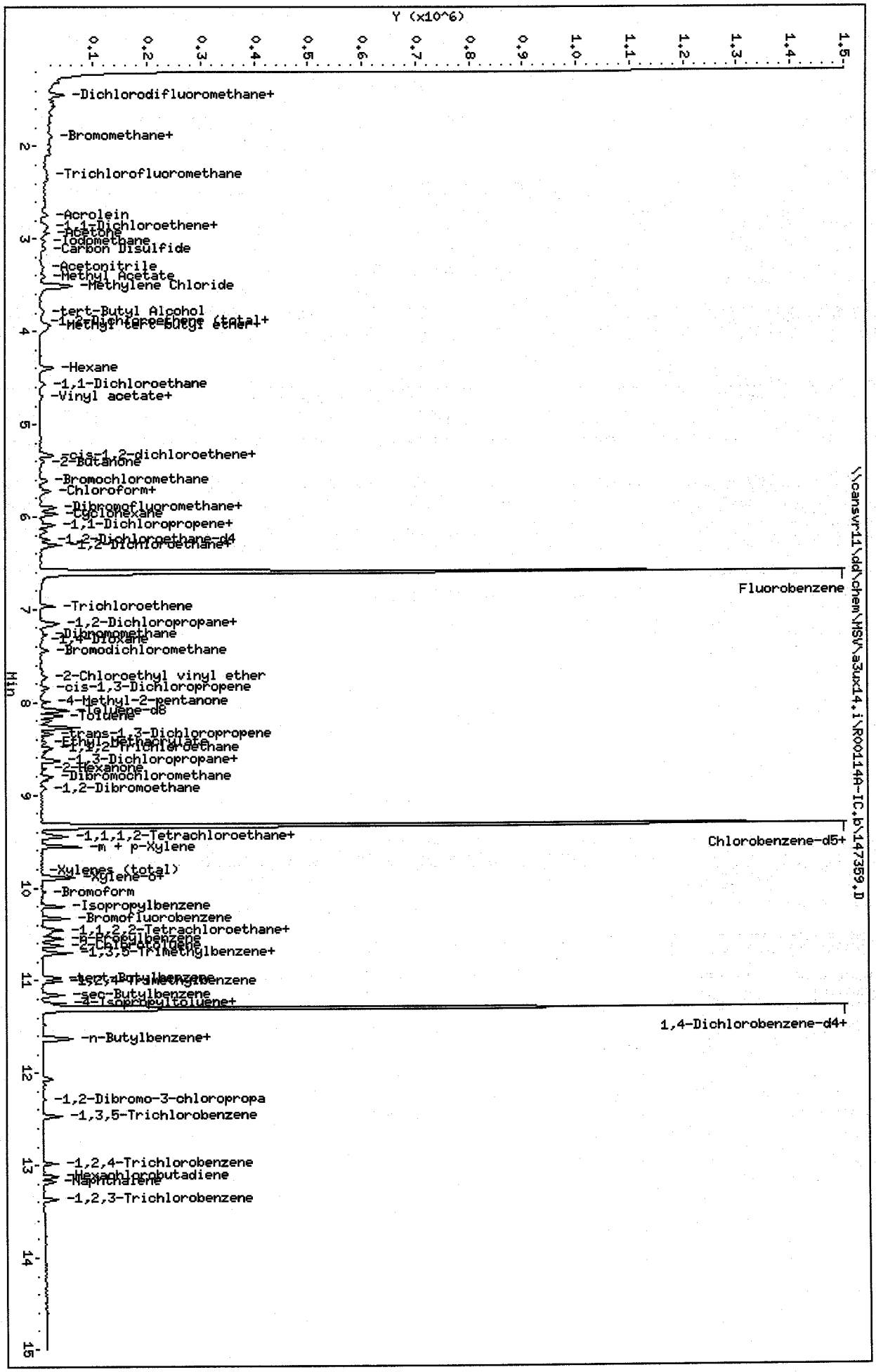
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147359.D
Lab Smp Id: 5NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,1-8260.SUB,2807,1,1

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1372183	-15.27
2 Chlorobenzene-d5	1224767	612384	2449534	1002461	-18.15
3 1,4-Dichlorobenze	643485	321743	1286970	555022	-13.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Date : 14-JAN-2010 13:21
Client ID:
Sample Info: 5NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Lab Smp Id: CHECKDUP/ICV
Inj Date : 14-JAN-2010 18:00
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP/ICV
Misc Info : R00114A-IC,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:27 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 21 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
*	1 Fluorobenzene	96	6.599	6.599	(1.000)	1426776	250.000	
*	2 Chlorobenzene-d5	117	9.333	9.332	(1.000)	1018266	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	585686	250.000	
$	4 Dibromofluoromethane	113	5.901	5.901	(0.894)	372221	236.798	47.360
$	5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	373759	231.917	46.383
$	6 Toluene-d8	98	8.090	8.090	(0.867)	1388680	251.564	50.313
$	7 Bromofluorobenzene	95	10.326	10.326	(0.913)	525978	242.199	48.440
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	303955	210.630	42.126
	9 Chloromethane	50	1.452	1.452	(0.220)	469869	225.220	45.044
	10 Vinyl Chloride	62	1.570	1.570	(0.238)	348368	221.382	44.276
	11 Bromomethane	94	1.890	1.878	(0.286)	160709	209.172	41.834
	12 Chloroethane	64	1.996	1.996	(0.303)	199943	215.457	43.091
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	421357	278.039	55.608
	15 Acrolein	56	2.730	2.730	(0.414)	145532	811.565	162.31
	16 Acetone	43	2.943	2.931	(0.446)	130741	244.205	48.841
	17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	369801	271.279	54.256
	18 Freon-113	151	2.895	2.884	(0.439)	320123	292.408	58.482
	19 Iodomethane	142	3.026	3.026	(0.459)	601965	259.089	51.818
	20 Carbon Disulfide	76	3.097	3.097	(0.469)	1026347	262.863	52.573
	21 Methylene Chloride	84	3.511	3.499	(0.532)	382573	248.057	49.611
	22 Acetonitrile	41	3.298	3.286	(0.500)	125368	662.387	132.48
	23 Acrylonitrile	53	3.889	3.889	(0.589)	405544	722.193	144.44

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	920036	259.773	51.955
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	401619	253.705	50.741
26	Hexane	86	4.398	4.386	(0.666)	97485	266.852	53.370
27	Vinyl acetate	43	4.694	4.694	(0.711)	633704	346.979	69.396(R)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	50554	310.665	62.133(A)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	727312	256.761	51.352
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	611660	4739.35	947.87
30	2-Butanone	43	5.380	5.380	(0.815)	161404	220.759	44.152
M 31	1,2-Dichloroethene (total)	96				805843	502.917	100.58
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	404224	249.212	49.842
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	248165	223.913	44.782
34	Bromochloromethane	128	5.605	5.605	(0.849)	192355	243.992	48.798
35	Chloroform	83	5.723	5.723	(0.867)	646879	249.134	49.827
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	112132	236.778	47.356
37	1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	483545	257.551	51.510
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	514823	261.491	52.298
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	474144	290.561	58.112
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	480819	250.199	50.040
41	Benzene	78	6.303	6.303	(0.955)	1510067	244.862	48.972
42	Trichloroethene	130	6.966	6.966	(1.056)	417600	245.694	49.139
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	390891	253.007	50.601
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.274	7.274	(1.102)	197203	250.644	50.129
46	Bromodichloromethane	83	7.439	7.439	(1.127)	417213	261.597	52.319
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	155460	217.992	43.598
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	465316	237.220	47.444
49	4-Methyl-2-pentanone	43	7.995	7.995	(0.857)	311833	253.590	50.718
50	Toluene	91	8.137	8.137	(0.872)	1509885	251.050	50.210
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.893)	385201	243.704	48.741
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.492	8.492	(0.910)	258070	240.539	48.108
54	1,3-Dichloropropane	76	8.634	8.634	(0.925)	447358	248.879	49.776
55	Tetrachloroethene	164	8.623	8.623	(0.924)	307711	242.343	48.468
56	2-Hexanone	43	8.717	8.717	(0.934)	200110	236.210	47.242
57	Dibromochloromethane	129	8.836	8.836	(0.947)	294409	262.886	52.577
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	255921	247.056	49.411
59	Chlorobenzene	112	9.356	9.356	(1.003)	966289	233.746	46.749
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	348289	265.646	53.129
61	Ethylbenzene	106	9.451	9.451	(1.013)	545137	255.847	51.169
62	m + p-Xylene	106	9.557	9.557	(1.024)	1309230	507.896	101.58
M 63	Xylenes (total)	106				1954923	773.740	154.75
64	Xylene-o	106	9.889	9.889	(1.060)	645693	265.844	53.169
65	Styrene	104	9.901	9.900	(1.061)	1005301	260.387	52.077
66	Bromoform	173	10.054	10.054	(1.077)	183512	270.650	54.130
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1729693	265.353	53.070
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	321532	223.799	44.760
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	218142	489.380	97.876
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	103084	247.585	49.517
71	Bromobenzene	156	10.457	10.457	(0.925)	404346	234.479	46.896
72	n-Propylbenzene	120	10.551	10.551	(0.933)	486807	242.795	48.559
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	402822	246.951	49.390
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1405860	253.167	50.633
75	4-Chlorotoluene	126	10.717	10.717	(0.948)	412207	239.331	47.866
76	tert-Butylbenzene	119	10.977	10.977	(0.971)	1328150	258.297	51.659

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1462655	258.042	51.608
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1858277	251.295	50.259
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1561458	248.447	49.689
80	1,3-Dichlorobenzene	146	11.249	11.249	(0.995)	743446	227.070	45.414
81	1,4-Dichlorobenzene	146	11.320	11.320	(1.001)	739280	212.841	42.568
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1337463	245.256	49.051
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	704495	229.821	45.964
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	62926	253.791	50.758
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	454758	229.246	45.849
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	297406	233.880	46.776
87	Naphthalene	128	13.178	13.178	(1.165)	1125485	246.523	49.305
88	1,2,3-Trichlorobenzene	180	13.379	13.379	(1.183)	454713	232.701	46.540
146	2-Methylnaphthalene	142	14.042	14.054	(1.242)	1381	12.1413	2.428
89	Ethyl Ether	59	2.600	2.600	(0.394)	274079	229.140	45.828
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.741	(0.719)	326901	258.014	51.603
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.303	6.303	(0.955)	539744	12259.6	2451.9(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	125449	387.234	77.447(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.960	5.960	(0.903)	797720	238.147	47.629
143	Methyl Acetate	43	3.392	3.392	(0.514)	287870	207.599	41.520
144	Methylcyclohexane	83	7.143	7.143	(1.082)	720375	251.528	50.306
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1464811	264.487	52.897(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Lab Smp Id: CHECKDUP/ICV
Inj Date : 14-JAN-2010 18:00
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP/ICV
Misc Info : R00114A-IC,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:27 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 21 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147371.D
Lab Smp Id: CHECKDUP/ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,,2807,3

Calibration Date: 14-JAN-2010
Calibration Time: 11:29

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1426776	-11.90
2 Chlorobenzene-d5	1224767	612384	2449534	1018266	-16.86
3 1,4-Dichlorobenze	643485	321743	1286970	585686	-8.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

TestAmerica North Canton

RECOVERY REPORT

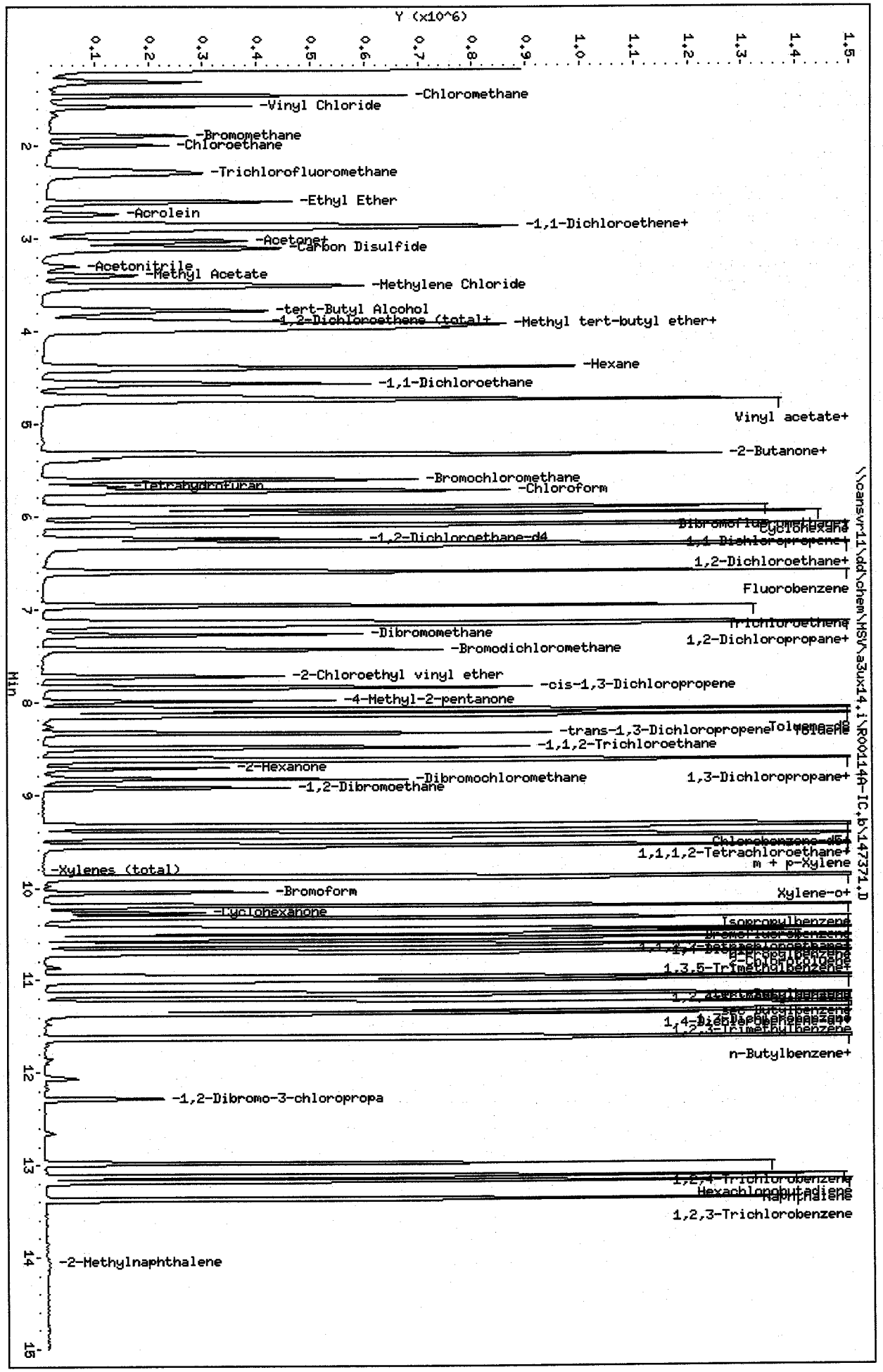
Client Name:
Client SDG: SDGa00468
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: CHECKDUP/ICV
Level: LOW
Operator: 2807
Data Type: MS DATA
SampleType: METHSPIKE
SpikeList File: DODICV.spk
Quant Type: ISTD
Sublist File: 4-8260+IX.sub
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,,2807,3

SPIKE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
17	1,1-Dichloroethene	50.000	54.256	108.51	55-142
42	Trichloroethene	50.000	49.139	98.28	70-131
41	Benzene	50.000	48.972	97.94	75-129
50	Toluene	50.000	50.210	100.42	71-130
59	Chlorobenzene	50.000	46.749	93.50	75-127
60	1,1,1,2-Tetrachlor	50.000	53.129	106.26	75-125
37	1,1,1-Trichloroeth	50.000	51.510	103.02	75-125
68	1,1,2,2-Tetrachlor	50.000	44.760	89.52	75-125
53	1,1,2-Trichloroeth	50.000	48.108	96.22	75-125
28	1,1-Dichloroethane	50.000	51.352	102.70	75-125
38	1,1-Dichloropropen	50.000	52.298	104.60	75-125
88	1,2,3-Trichloroben	50.000	46.540	93.08	75-125
70	1,2,3-Trichloropro	50.000	49.517	99.03	75-125
85	1,2,4-Trichloroben	50.000	45.849	91.70	75-125
77	1,2,4-Trimethylben	50.000	51.608	103.22	75-125
84	1,2-Dibromo-3-chlo	50.000	50.758	101.52	75-125
58	1,2-Dibromoethane	50.000	49.411	98.82	75-125
83	1,2-Dichlorobenzen	50.000	45.964	91.93	75-125
40	1,2-Dichloroethane	50.000	50.040	100.08	75-125
43	1,2-Dichloropropan	50.000	50.601	101.20	75-125
74	1,3,5-Trimethylben	50.000	50.633	101.27	75-125
80	1,3-Dichlorobenzen	50.000	45.414	90.83	75-125
54	1,3-Dichloropropan	50.000	49.776	99.55	75-125
81	1,4-Dichlorobenzen	50.000	42.568	85.14	75-125
33	2,2-Dichloropropan	50.000	44.782	89.57	75-125
30	2-Butanone	50.000	44.152	88.30	75-125
73	2-Chlorotoluene	50.000	49.390	98.78	75-125
56	2-Hexanone	50.000	47.242	94.48	75-125
75	4-Chlorotoluene	50.000	47.866	95.73	75-125
49	4-Methyl-2-pentano	50.000	50.718	101.44	75-125
16	Acetone	50.000	48.841	97.68	75-125
71	Bromobenzene	50.000	46.896	93.79	75-125
34	Bromochloromethane	50.000	48.798	97.60	75-125
46	Bromodichlorometha	50.000	52.319	104.64	75-125
66	Bromoform	50.000	54.130	108.26	75-125
11	Bromomethane	50.000	41.834	83.67	75-125
20	Carbon Disulfide	50.000	52.573	105.15	75-125
39	Carbon Tetrachlori	50.000	58.112	116.22	75-125
57	Dibromochlorometha	50.000	52.577	105.15	75-125
12	Chloroethane	50.000	43.091	86.18	75-125

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Report Date: 15-Jan-2010 11:42

	SPIKE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	35	Chloroform	50.000	49.827	99.65	75-125
	9	Chloromethane	50.000	45.044	90.09	75-125
	32	cis-1,2-dichloroet	50.000	49.842	99.68	75-125
	48	cis-1,3-Dichloropr	50.000	47.444	94.89	75-125
	45	Dibromomethane	50.000	50.129	100.26	75-125
	8	Dichlorodifluorome	50.000	42.126	84.25	75-125
	61	Ethylbenzene	50.000	51.169	102.34	75-125
	86	Hexachlorobutadien	50.000	46.776	93.55	75-125
	67	Isopropylbenzene	50.000	53.070	106.14	75-125
	62	m + p-Xylene	100.00	101.58	101.58	75-125
	21	Methylene Chloride	50.000	49.611	99.22	75-125
	87	Naphthalene	50.000	49.305	98.61	75-125
	82	n-Butylbenzene	50.000	49.051	98.10	75-125
	72	n-Propylbenzene	50.000	48.559	97.12	75-125
	64	Xylene-o	50.000	53.169	106.34	75-125
	79	4-Isopropyltoluene	50.000	49.689	99.38	75-125
	78	sec-Butylbenzene	50.000	50.259	100.52	75-125
	65	Styrene	50.000	52.077	104.15	75-125
	76	tert-Butylbenzene	50.000	51.659	103.32	75-125
	55	Tetrachloroethene	50.000	48.468	96.94	75-125
	25	trans-1,2-Dichloro	50.000	50.741	101.48	75-125
	51	trans-1,3-Dichloro	50.000	48.741	97.48	75-125
	13	Trichlorofluoromet	50.000	55.608	111.22	75-125
	10	Vinyl Chloride	50.000	44.276	88.55	75-125
	27	Vinyl acetate	50.000	69.396	138.79*	75-125
	154	Vinyl Acetate**2nd	50.000	62.133	124.27	75-125
	19	Iodomethane	50.000	51.818	103.64	75-125
	92	Isopropyl Ether	50.000	51.603	103.21	75-125
	24	Methyl tert-butyl	50.000	51.955	103.91	75-125
M	63	Xylenes (total)	150.00	154.75	103.17	75-125
	22	Acetonitrile	150.00	132.48	88.32	75-125
	15	Acrolein	150.00	162.31	108.21	75-125
	23	Acrylonitrile	150.00	144.44	96.29	75-125
	47	2-Chloroethyl viny	50.000	43.598	87.20	75-125
	98	Cyclohexane	50.000	47.629	95.26	75-125
M	31	1,2-Dichloroethene	100.00	100.58	100.58	75-125
	26	Hexane	50.000	53.370	106.74	75-125
	143	Methyl Acetate	50.000	41.520	83.04	75-125
	144	Methylcyclohexane	50.000	50.306	100.61	75-125
	18	Freon-113	50.000	58.482	116.96	75-125
	25	Cyclohexanone	500.00	77.447	15.49*	75-125

	SURROGATE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$	4	Dibromofluorometha	50.000	47.360	94.72	59-138
$	5	1,2-Dichloroethane	50.000	46.383	92.77	61-130
$	6	Toluene-d8	50.000	50.313	100.63	60-143
$	7	Bromofluorobenzene	50.000	48.440	96.88	47-158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11
12
13
14
15
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total)+
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Tetrahydrofuran
-Chloroform
-1,2-Dichloroethane-d4
1,2-Dichloroethane+
Fluorobenzene
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
1,3-Dichloropropane+
1,1,1,2-Tetrachloroethane+
-Xylenes (total)
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
1,3,5-Trimethylbenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,2,3-Trichlorobenzene
-2-Methylnaphthalene
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Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147371.D
Date : 14-JAN-2010 18:00
Client ID:
Sample Info: CHECKDUP/ICV
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Lab Smp Id: 1000NG-BMIC
Inj Date : 14-JAN-2010 14:30
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 1000NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,8
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 17:14 Cal File: 147369.D
Als bottle: 12 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1469255	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	1064692	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	598810	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	668309	1000.00	844.69

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147362.D
Lab Smp Id: 1000NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,8

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1469255	-9.27
2 Chlorobenzene-d5	1224767	612384	2449534	1064692	-13.07
3 1,4-Dichlorobenze	643485	321743	1286970	598810	-6.94

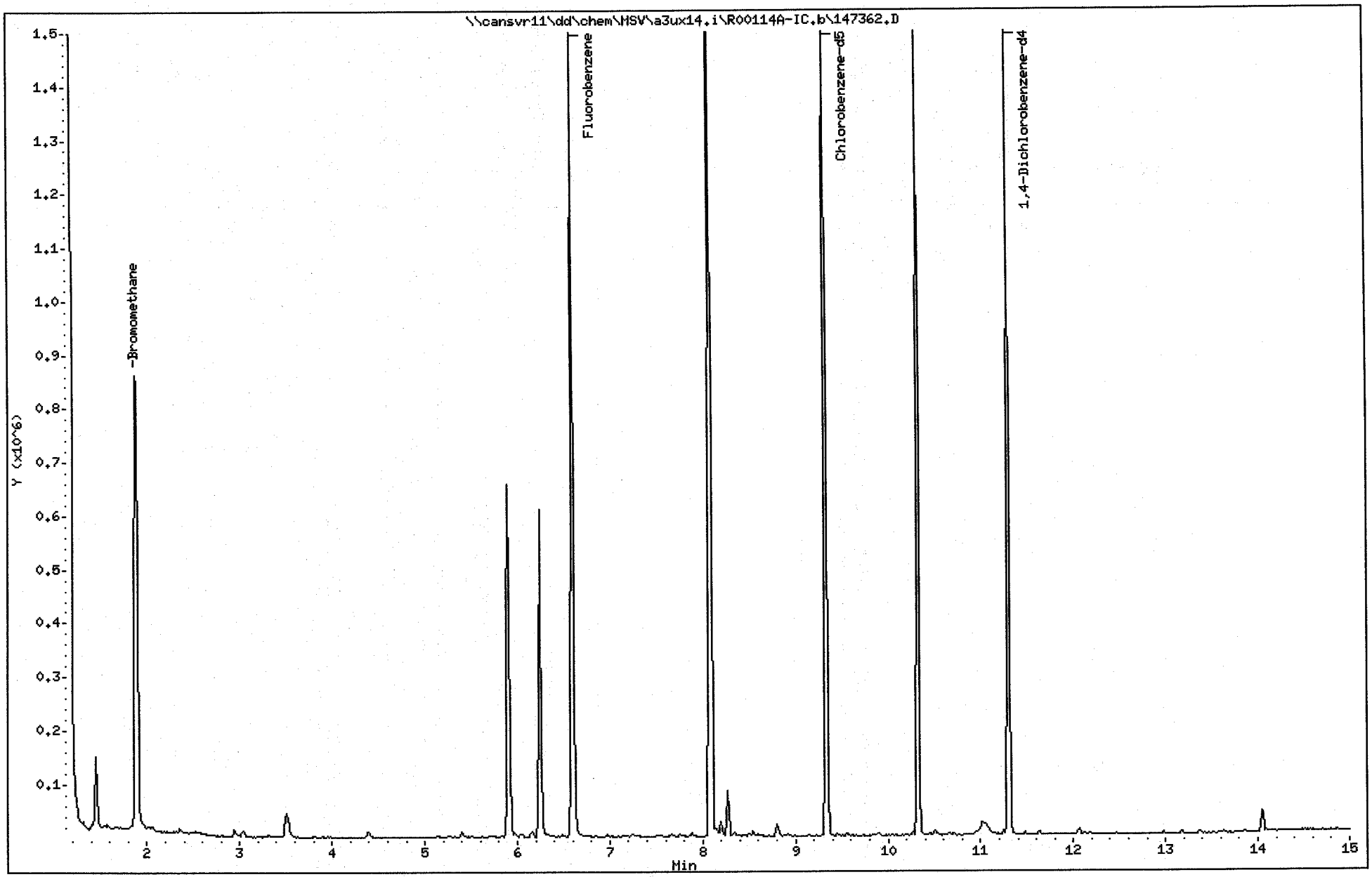
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D
Date : 14-JAN-2010 14:30
Client ID:
Sample Info: 1000NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Lab Smp Id: 500NG-BMIC
Inj Date : 14-JAN-2010 14:53
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 500NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,7
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:30 Cal File: 147362.D
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1506064	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1130843	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	577018	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	363830	500.000	448.62

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147363.D
Lab Smp Id: 500NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 11:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,7

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1619446	809723	3238892	1506064	-7.00
2 Chlorobenzene-d5	1224767	612384	2449534	1130843	-7.67
3 1,4-Dichlorobenze	643485	321743	1286970	577018	-10.33

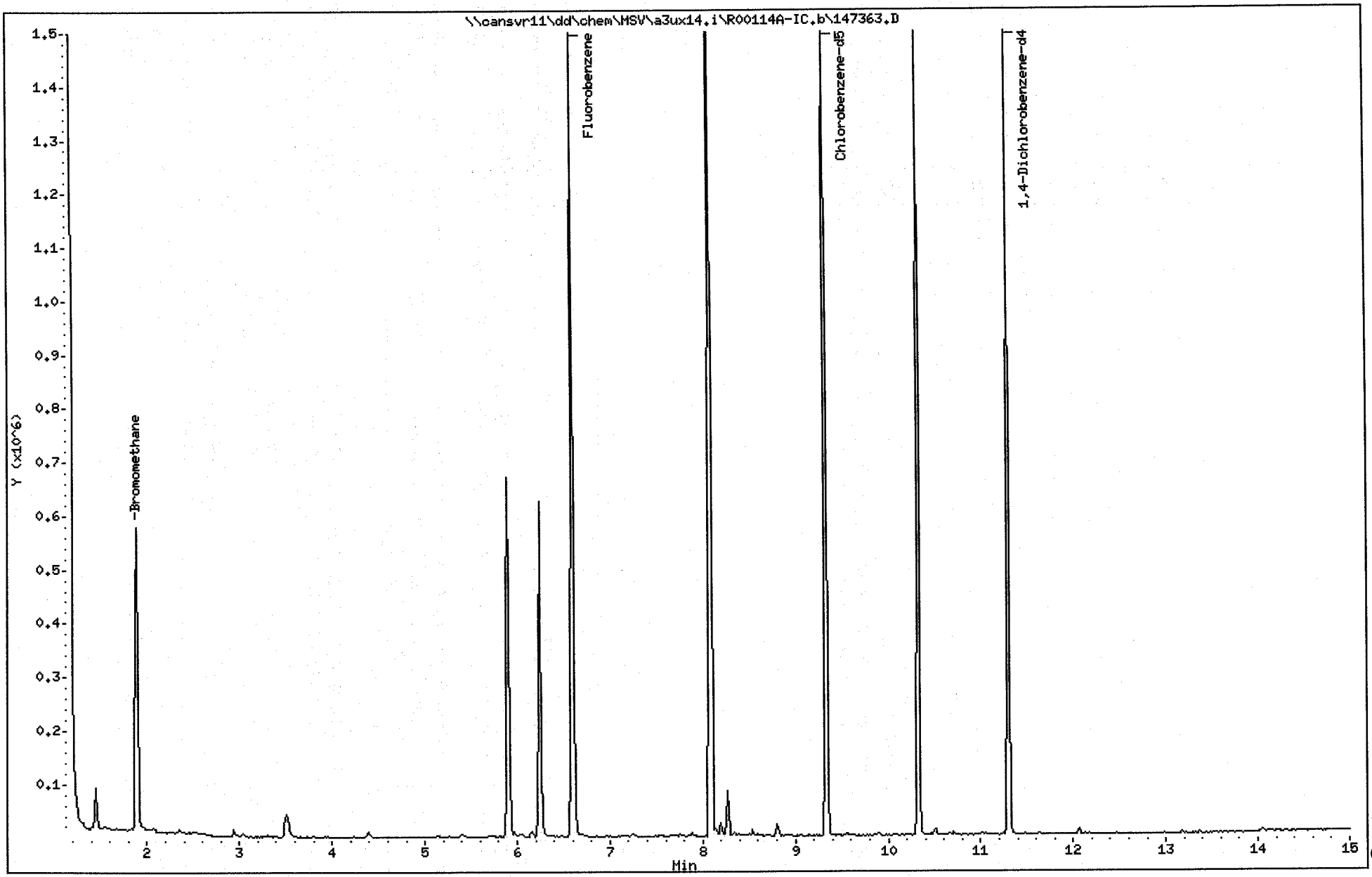
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\oansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D
Date : 14-JAN-2010 14:53
Client ID:
Sample Info: 500NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Lab Smp Id: 250NG-BMIC
Inj Date : 14-JAN-2010 15:16
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 14:53 Cal File: 147363.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1426757	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1019841	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	550598	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	178530	250.000	232.37

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147364.D
Lab Smp Id: 250NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1426757	0.00
2 Chlorobenzene-d5	1019841	509921	2039682	1019841	0.00
3 1,4-Dichlorobenze	550598	275299	1101196	550598	0.00

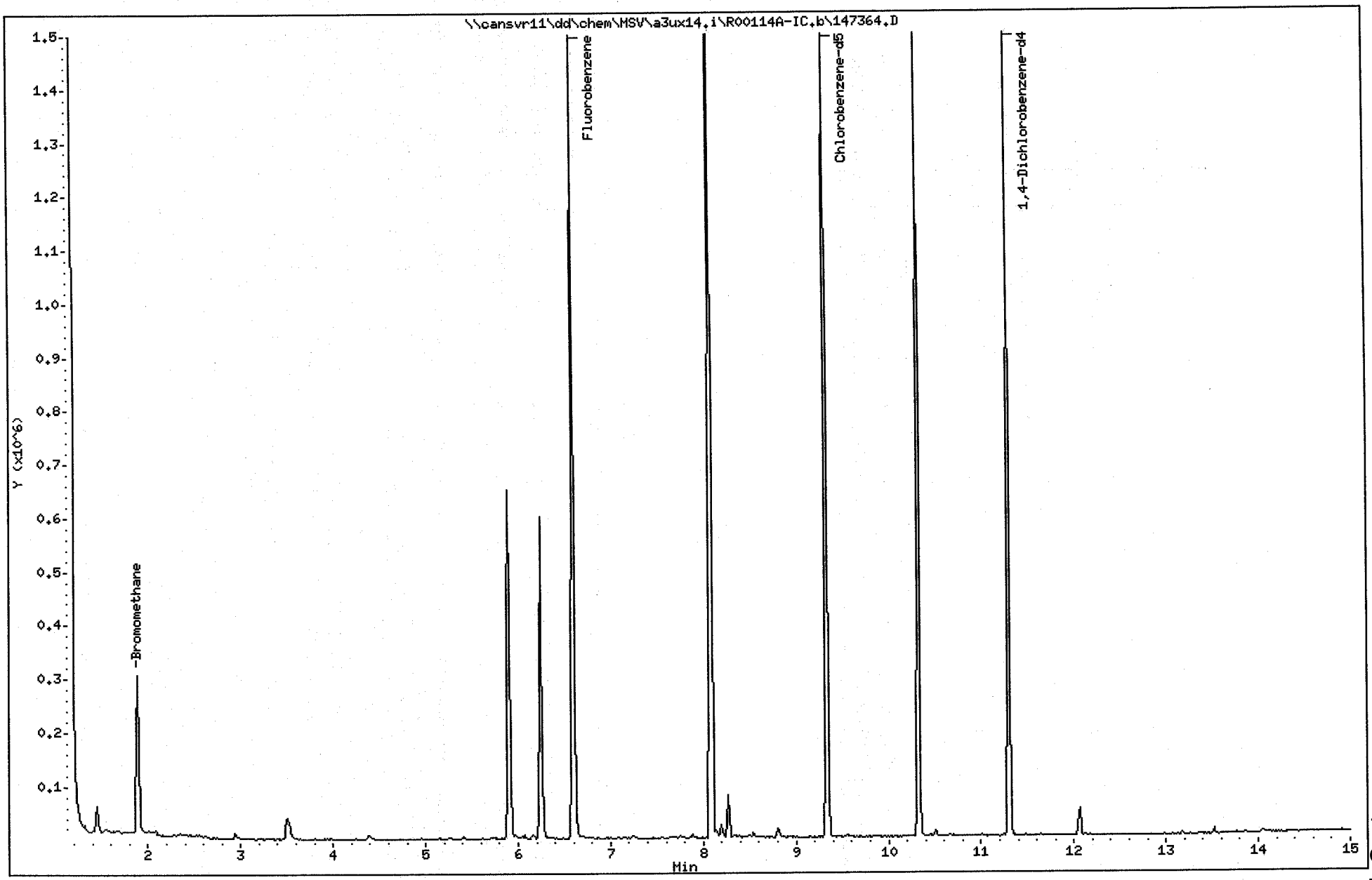
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D
Date : 14-JAN-2010 15:16
Client ID:
Sample Info: 250NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Lab Smp Id: 100NG-BMIC
Inj Date : 14-JAN-2010 15:39
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 100NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1384300	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1014571	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	545907	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	76468	100.000	102.58

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147365.D
Lab Smp Id: 100NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,5

Calibration Date: 14-JAN-2010
Calibration Time: 15:16

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1384300	-2.98
2 Chlorobenzene-d5	1019841	509921	2039682	1014571	-0.52
3 1,4-Dichlorobenze	550598	275299	1101196	545907	-0.85

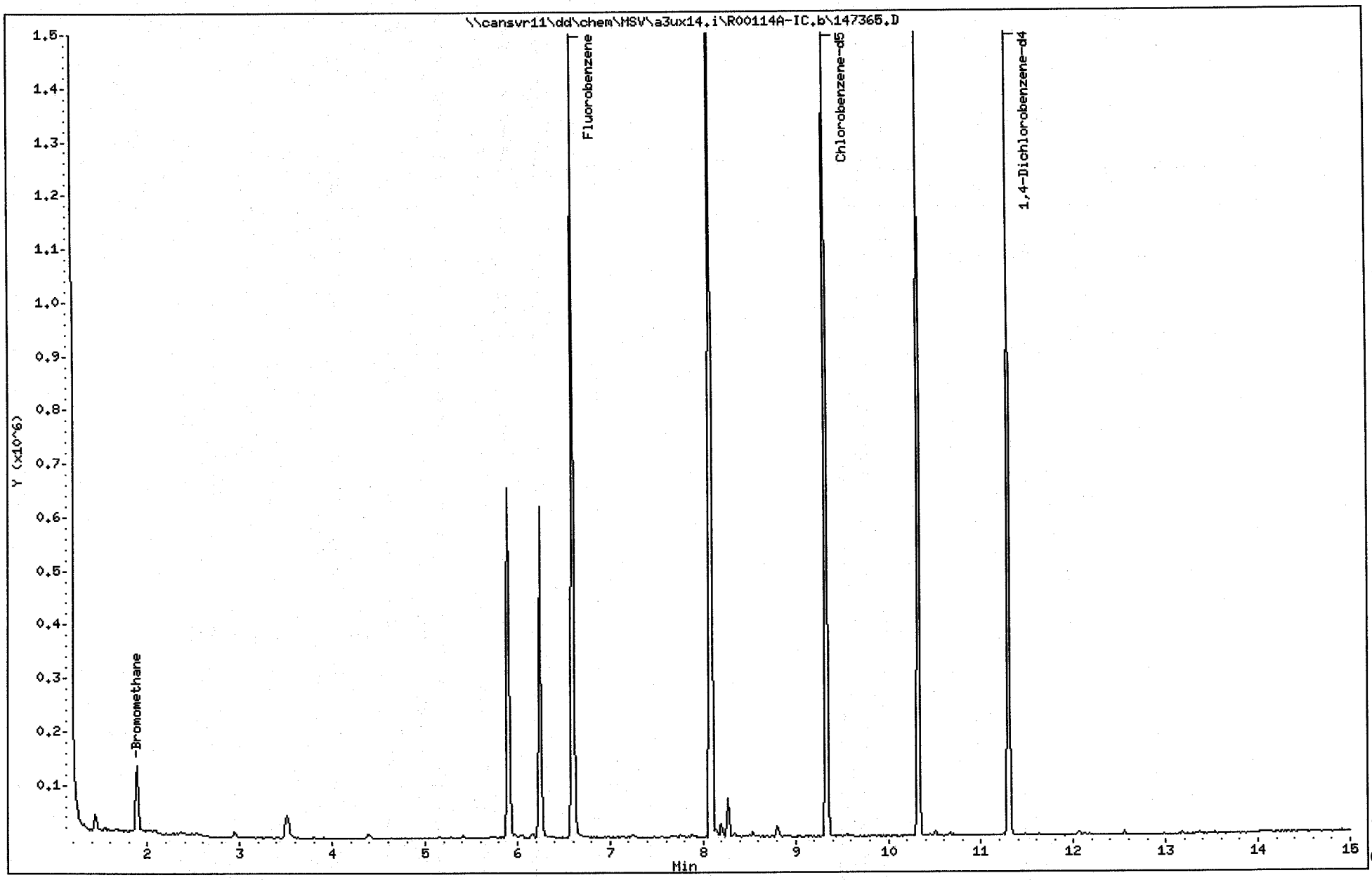
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
Date : 14-JAN-2010 15:39
Client ID:
Sample Info: 100NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Lab Smp Id: 50NG-BMIC
Inj Date : 14-JAN-2010 16:03
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:39 Cal File: 147365.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1425981	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1040279	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	547806	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	33596	50.0000	43.751

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147366.D
Lab Smp Id: 50NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1425981	-0.05
2 Chlorobenzene-d5	1019841	509921	2039682	1040279	2.00
3 1,4-Dichlorobenze	550598	275299	1101196	547806	-0.51

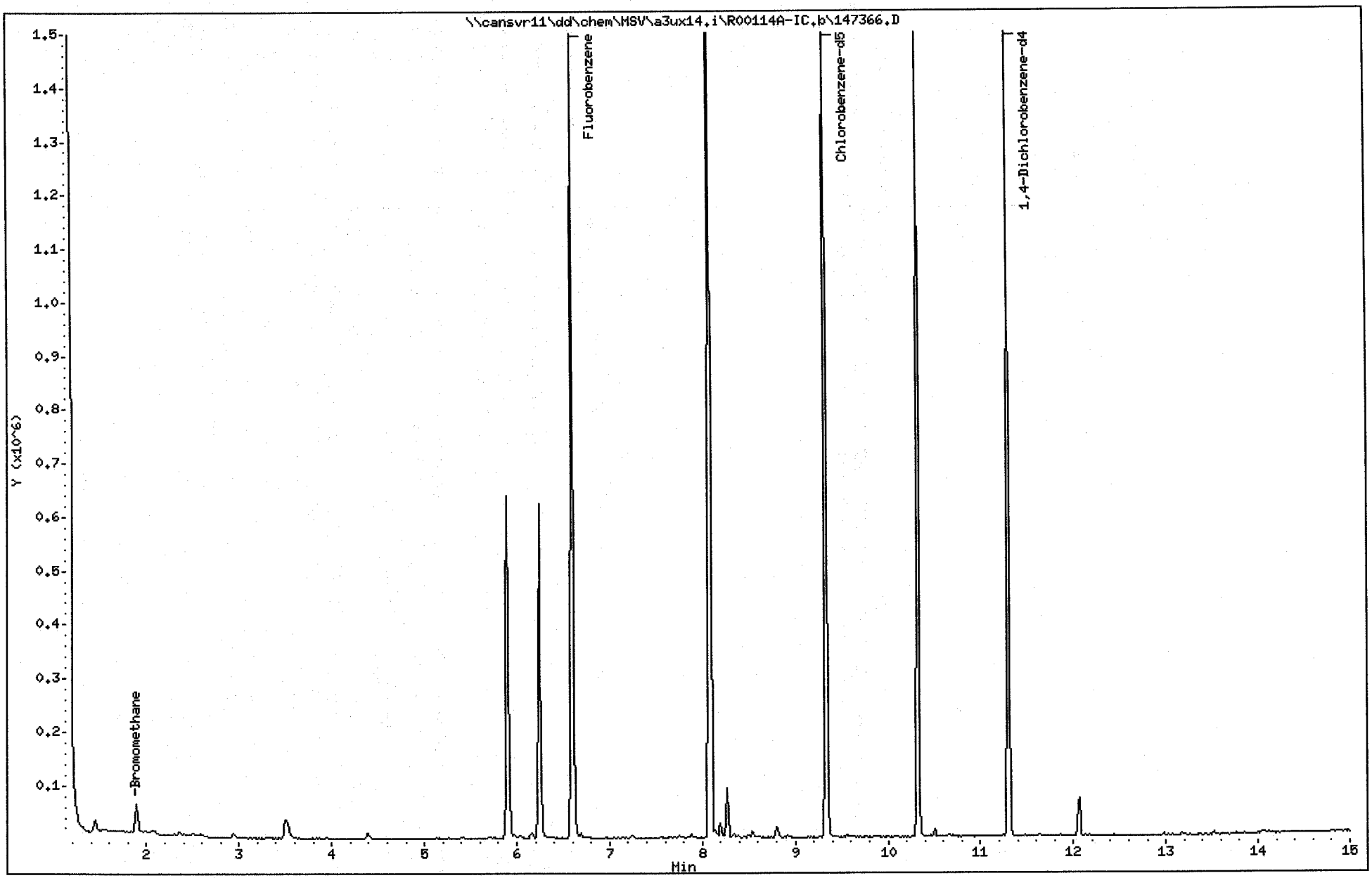
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
Date : 14-JAN-2010 16:03
Client ID:
Sample Info: 50NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Lab Smp Id: 25NG-BMIC
Inj Date : 14-JAN-2010 16:27
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 25NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:03 Cal File: 147366.D
Als bottle: 17 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1354292	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	975180	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	522521	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	19955	25.0000	27.363

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147367.D
Lab Smp Id: 25NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,3

Calibration Date: 14-JAN-2010
Calibration Time: 15:16

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1354292	-5.08
2 Chlorobenzene-d5	1019841	509921	2039682	975180	-4.38
3 1,4-Dichlorobenze	550598	275299	1101196	522521	-5.10

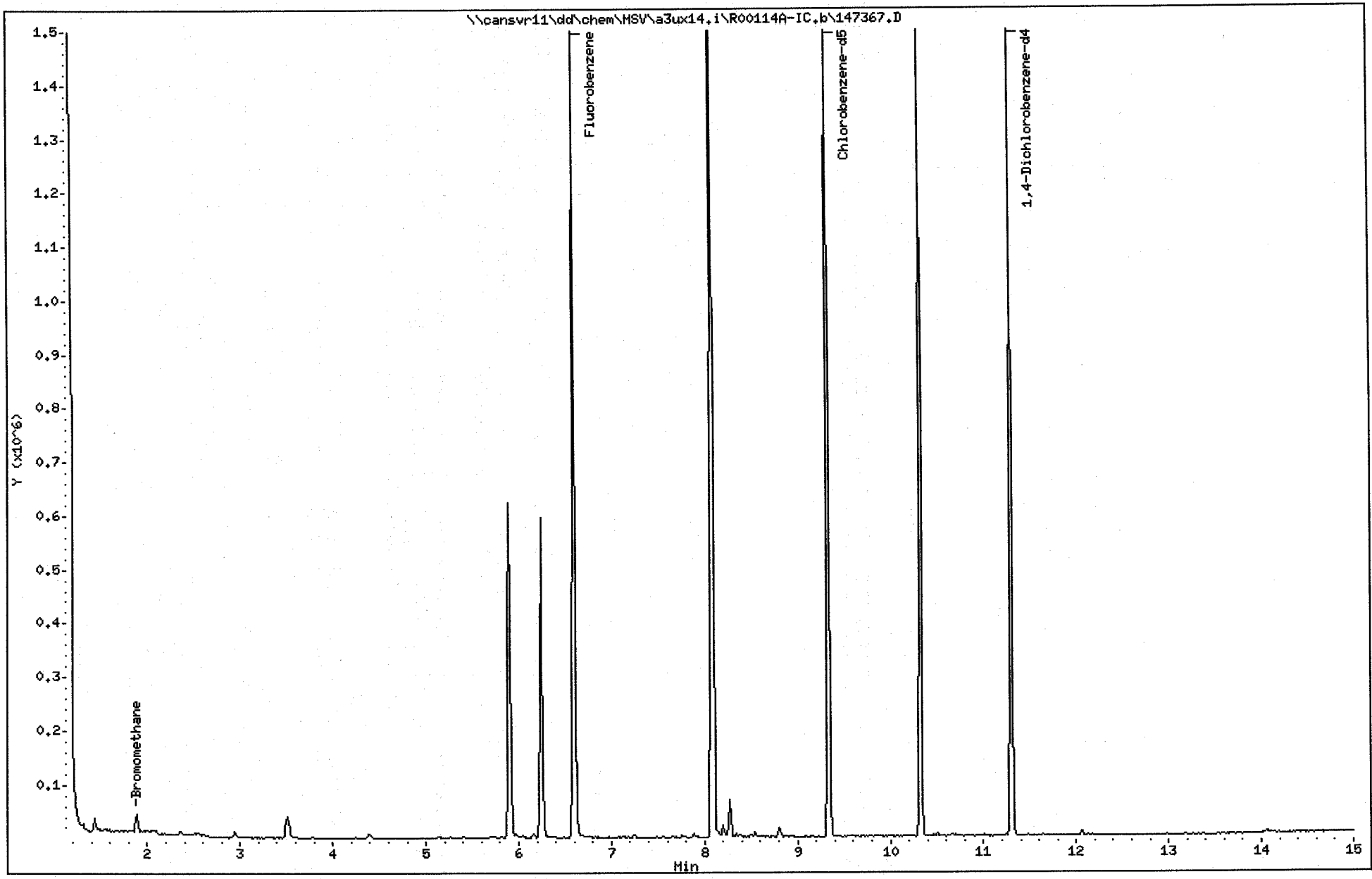
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
Date : 14-JAN-2010 16:27
Client ID:
Sample Info: 25NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Lab Smp Id: 10NG-BMIC
Inj Date : 14-JAN-2010 16:50
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 10NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:27 Cal File: 147367.D
Als bottle: 18 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1422782	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1058622	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	544484	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	8389	10.0000	10.949

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147368.D
Lab Smp Id: 10NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1422782	-0.28
2 Chlorobenzene-d5	1019841	509921	2039682	1058622	3.80
3 1,4-Dichlorobenze	550598	275299	1101196	544484	-1.11

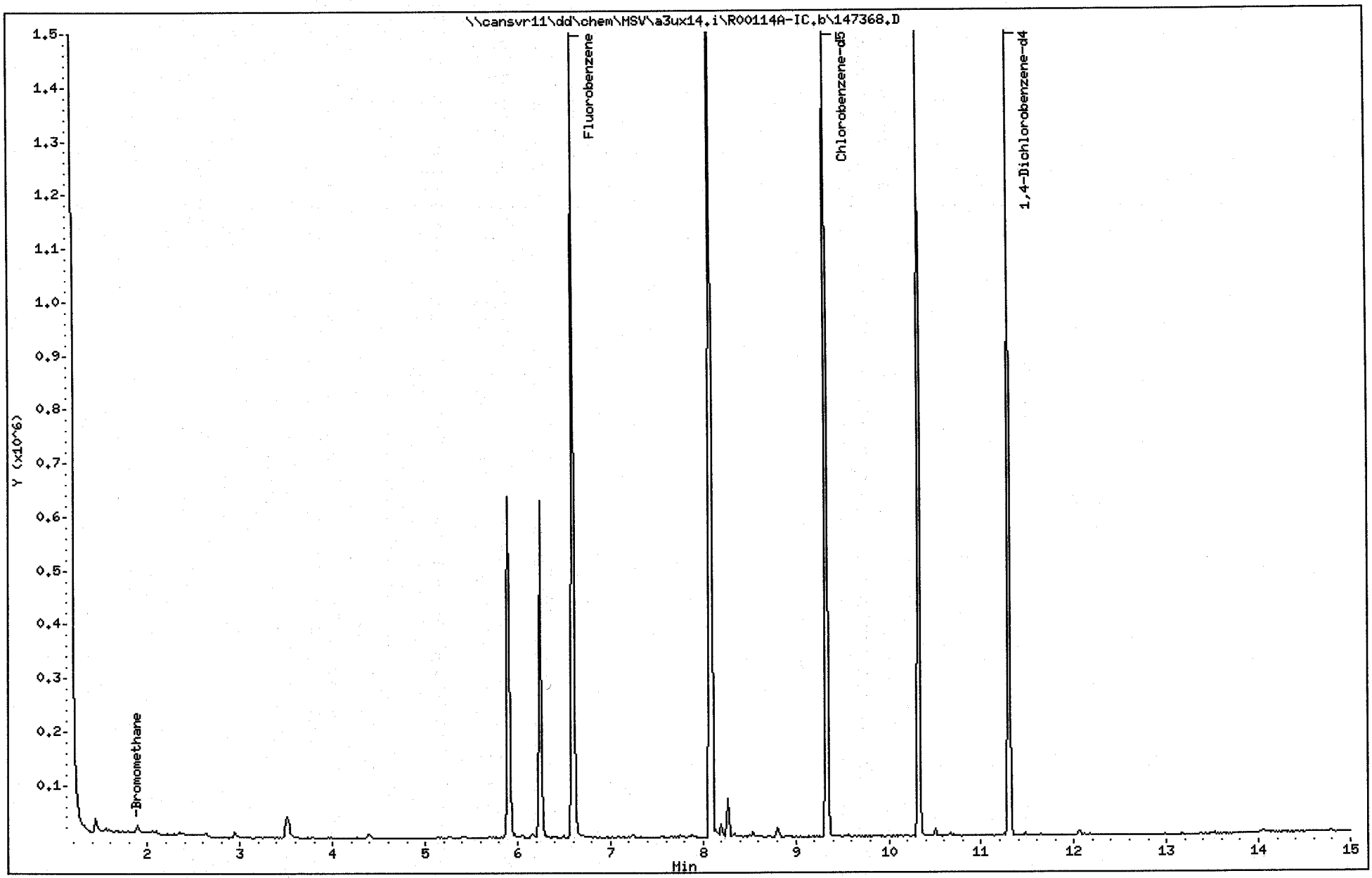
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
Date : 14-JAN-2010 16:50
Client ID:
Sample Info: 10NG-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Lab Smp Id: 5NG-BMIC
Inj Date : 14-JAN-2010 17:14
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 5NG-BMIC
Misc Info : R00114A-IC,8260SUX14,BROMO.SUB,2807,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Meth Date : 15-Jan-2010 11:15 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 16:50 Cal File: 147368.D
Als bottle: 19 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1331092	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.332	(1.000)	972754	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	525346	250.000	
11 Bromomethane	94	1.890	1.890	(0.286)	4438	5.00000	6.192

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Report Date: 15-Jan-2010 11:15

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 147369.D
Lab Smp Id: 5NG-BMIC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 14-JAN-2010
Calibration Time: 15:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\8260SUX14.m
Misc Info: R00114A-IC,8260SUX14,BROMO.SUB,2807,1,1

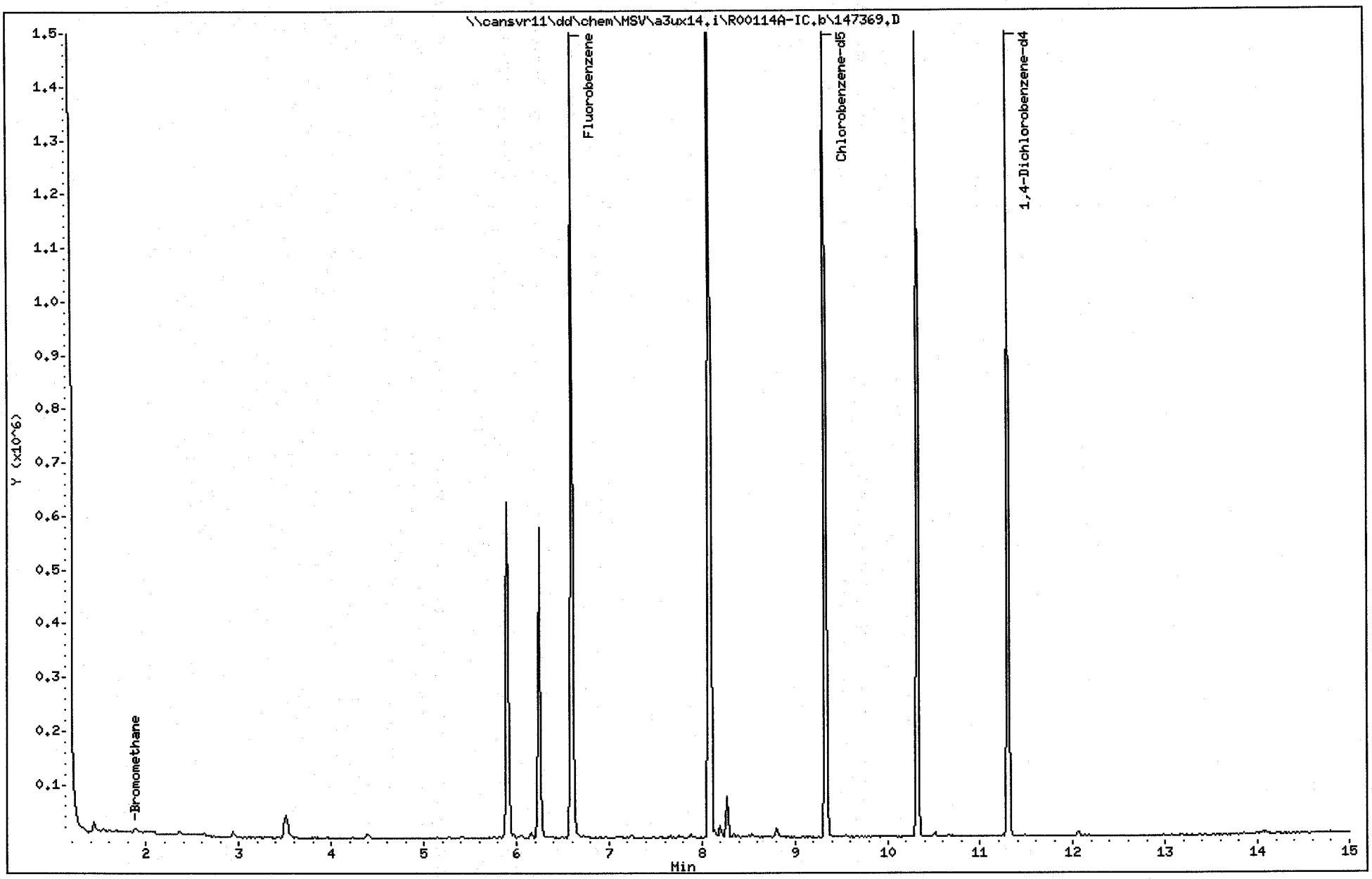
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1426757	713379	2853514	1331092	-6.71
2 Chlorobenzene-d5	1019841	509921	2039682	972754	-4.62
3 1,4-Dichlorobenze	550598	275299	1101196	525346	-4.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
Date : 14-JAN-2010 17:14
Client ID:
Sample Info: 5NC-BMIC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Report Date: 26-Feb-2010 12:32

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Start Cal Date: 08-JAN-2010 12:27
End Cal Date : 14-JAN-2010 17:14
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
14-JAN-2010 17:14	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147369.D
08-JAN-2010 18:18	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147289.D
14-JAN-2010 13:21	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147359.D
Cal Level: 2 , Cal Amount: 10.00000		
14-JAN-2010 16:50	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147368.D
08-JAN-2010 17:55	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147288.D
14-JAN-2010 12:59	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147358.D
Cal Level: 3 , Cal Amount: 25.00000		
14-JAN-2010 16:27	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147367.D
08-JAN-2010 17:33	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147287.D
14-JAN-2010 12:36	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147357.D
Cal Level: 4 , Cal Amount: 50.00000		
14-JAN-2010 16:03	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147366.D
08-JAN-2010 17:11	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147286.D
14-JAN-2010 12:14	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147356.D
Cal Level: 5 , Cal Amount: 100.00000		
14-JAN-2010 15:39	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147365.D
08-JAN-2010 16:49	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147285.D

14-JAN-2010 11:51	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147355.D		

Cal Level: 6 , Cal Amount: 250.00000		
14-JAN-2010 15:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147364.D		
08-JAN-2010 16:27	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147284.D		
14-JAN-2010 11:29	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147354.D		

Cal Level: 7 , Cal Amount: 500.00000		
14-JAN-2010 14:53	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147363.D		
08-JAN-2010 16:06	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147283.D		
14-JAN-2010 11:07	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147353.D		

Cal Level: 8 , Cal Amount: 1000.00000		
14-JAN-2010 14:30	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147362.D		
08-JAN-2010 15:44	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00108A-IC.b\147282.D		
14-JAN-2010 10:45	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\147352.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

26-FEB-2010 11:30	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D		
26-FEB-2010 11:52	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148214.D		

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 26-FEB-2010 11:30
Lab File ID: 148213.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.27543	0.27069	0.27069	0.010	1.72113	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.28239	0.26661	0.26661	0.010	5.58832	50.00000	Averaged	
$ 6 Toluene-d8	1.35529	1.37865	1.37865	0.010	-1.72343	50.00000	Averaged	
$ 7 Bromofluorobenzene	0.92698	0.92869	0.92869	0.010	-0.18435	50.00000	Averaged	
8 Dichlorodifluoromethane	0.25286	0.27186	0.27186	0.010	-7.51616	50.00000	Averaged	
9 Chloromethane	0.36556	0.35398	0.35398	0.100	3.16541	50.00000	Averaged	
10 Vinyl Chloride	0.27573	0.29719	0.29719	0.010	-7.78235	20.00000	Averaged	
11 Bromomethane	0.13462	0.14287	0.14287	0.010	-6.12836	50.00000	Averaged	
12 Chloroethane	0.16260	0.16650	0.16650	0.010	-2.39911	50.00000	Averaged	
13 Trichlorofluoromethane	0.26554	0.31673	0.31673	0.010	-19.27769	50.00000	Averaged	
15 Acrolein	0.03142	0.02392	0.02392	0.010	23.87271	50.00000	Averaged	
16 Acetone	500	518	0.08611	0.010	-3.59656	0.000e+000	Wt Linear	
17 1,1-Dichloroethene	0.23886	0.24094	0.24094	0.010	-0.87369	20.00000	Averaged	
18 Freon-113	0.19183	0.21363	0.21363	0.010	-11.36529	50.00000	Averaged	
19 Iodomethane	0.40711	0.42654	0.42654	0.010	-4.77454	50.00000	Averaged	
20 Carbon Disulfide	0.68415	0.67971	0.67971	0.010	0.64890	50.00000	Averaged	
21 Methylene Chloride	250	253	0.27269	0.010	-1.06500	0.000e+000	Wt Linear	
22 Acetonitrile	0.03316	0.03158	0.03158	0.010	4.78171	50.00000	Averaged	
23 Acrylonitrile	0.09839	0.09280	0.09280	0.010	5.68898	50.00000	Averaged	
24 Methyl tert-butyl ether	0.62058	0.66574	0.66574	0.010	-7.27752	50.00000	Averaged	
25 trans-1,2-Dichloroethene	0.27738	0.28568	0.28568	0.010	-2.99432	50.00000	Averaged	
26 Hexane	0.06401	0.06467	0.06467	0.010	-1.03770	20.00000	Averaged	
27 Vinyl acetate	0.32001	0.20636	0.20636	0.010	35.51575	50.00000	Averaged	
154 Vinyl Acetate**2nd**	0.02851	0.01792	0.01792	0.010	37.14999	50.00000	Averaged	
28 1,1-Dichloroethane	0.49634	0.51150	0.51150	0.100	-3.05461	50.00000	Averaged	
29 tert-Butyl Alcohol	0.02261	0.02179	0.02179	0.010	3.66053	50.00000	Averaged	
30 2-Butanone	0.12811	0.10533	0.10533	0.010	17.78452	50.00000	Averaged	
M 31 1,2-Dichloroethene (total)	0.28079	0.28947	0.28947	0.010	-3.08950	50.00000	Averaged	
32 cis-1,2-dichloroethene	0.28421	0.29325	0.29325	0.010	-3.18239	50.00000	Averaged	
33 2,2-Dichloropropane	0.19420	0.20413	0.20413	0.010	-5.11261	50.00000	Averaged	
34 Bromochloromethane	0.13814	0.14146	0.14146	0.010	-2.40276	50.00000	Averaged	
35 Chloroform	0.45496	0.46400	0.46400	0.010	-1.98583	20.00000	Averaged	
36 Tetrahydrofuran	0.08298	0.07041	0.07041	0.010	15.15232	50.00000	Averaged	
37 1,1,1-Trichloroethane	0.32897	0.36489	0.36489	0.010	-10.91992	50.00000	Averaged	
38 1,1-Dichloropropene	0.34497	0.36887	0.36887	0.010	-6.92564	50.00000	Averaged	
39 Carbon Tetrachloride	0.28593	0.37016	0.37016	0.010	-29.45949	50.00000	Averaged	
40 1,2-Dichloroethane	0.33673	0.33339	0.33339	0.010	0.99184	50.00000	Averaged	
41 Benzene	1.08058	1.06668	1.06668	0.010	1.28667	50.00000	Averaged	
42 Trichloroethene	0.29782	0.30175	0.30175	0.010	-1.32024	50.00000	Averaged	
43 1,2-Dichloropropane	0.27071	0.27117	0.27117	0.010	-0.16799	20.00000	Averaged	
44 1,4-Dioxane	0.00223	0.00206	0.00206	0.010	7.67268	50.00000	Averaged	<-
45 Dibromomethane	0.13786	0.13496	0.13496	0.010	2.10290	50.00000	Averaged	
46 Bromodichloromethane	0.27945	0.29317	0.29317	0.010	-4.90828	50.00000	Averaged	

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 26-FEB-2010 11:30
Lab File ID: 148213.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
47 2-Chloroethyl vinyl ether	500	423	0.10790	0.010	15.47530	0.000e+000	Wt Linear
48 cis-1,3-Dichloropropene	0.34370	0.34187	0.34187	0.010	0.53278	50.00000	Averaged
49 4-Methyl-2-pentanone	0.30190	0.28703	0.28703	0.010	4.92758	50.00000	Averaged
50 Toluene	1.47660	1.56770	1.56770	0.010	-6.16967	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.38806	0.38169	0.38169	0.010	1.64287	50.00000	Averaged
52 Ethyl Methacrylate	250	213	0.32267	0.010	14.85109	0.000e+000	Wt Linear
53 1,1,2-Trichloroethane	0.26341	0.26203	0.26203	0.010	0.52544	50.00000	Averaged
54 1,3-Dichloropropane	0.44131	0.43925	0.43925	0.010	0.46801	50.00000	Averaged
55 Tetrachloroethene	0.31174	0.32727	0.32727	0.010	-4.98302	50.00000	Averaged
56 2-Hexanone	0.20799	0.19610	0.19610	0.010	5.71807	50.00000	Averaged
57 Dibromochloromethane	0.27496	0.29069	0.29069	0.010	-5.72278	50.00000	Averaged
58 1,2-Dibromoethane	0.25432	0.25023	0.25023	0.010	1.60811	50.00000	Averaged
59 Chlorobenzene	1.01494	1.03200	1.03200	0.300	-1.68031	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.32190	0.35109	0.35109	0.010	-9.06826	50.00000	Averaged
61 Ethylbenzene	0.52312	0.56562	0.56562	0.010	-8.12287	20.00000	Averaged
62 m + p-Xylene	0.63288	0.70550	0.70550	0.010	-11.47412	50.00000	Averaged
M 63 Xylenes (total)	0.62069	0.69387	0.69387	0.010	-11.79024	50.00000	Averaged
64 Xylene-o	0.59632	0.67063	0.67063	0.010	-12.46122	50.00000	Averaged
65 Styrene	0.94789	1.07078	1.07078	0.010	-12.96518	50.00000	Averaged
66 Bromoform	0.16647	0.17537	0.17537	0.100	-5.34426	50.00000	Averaged
67 Isopropylbenzene	1.60039	1.81102	1.81102	0.010	-13.16125	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	0.61326	0.61718	0.61718	0.300	-0.63991	50.00000	Averaged
69 1,4-Dichloro-2-butene	0.19027	0.18270	0.18270	0.010	3.98058	50.00000	Averaged
70 1,2,3-Trichloropropane	0.17772	0.17656	0.17656	0.010	0.65581	50.00000	Averaged
71 Bromobenzene	0.73608	0.76225	0.76225	0.010	-3.55497	50.00000	Averaged
72 n-Propylbenzene	0.85584	0.93233	0.93233	0.010	-8.93701	50.00000	Averaged
73 2-Chlorotoluene	0.69627	0.79087	0.79087	0.010	-13.58725	50.00000	Averaged
74 1,3,5-Trimethylbenzene	2.37034	2.66892	2.66892	0.010	-12.59644	50.00000	Averaged
75 4-Chlorotoluene	0.73518	0.82117	0.82117	0.010	-11.69677	50.00000	Averaged
76 tert-Butylbenzene	2.19484	2.46401	2.46401	0.010	-12.26355	50.00000	Averaged
77 1,2,4-Trimethylbenzene	2.41951	2.70204	2.70204	0.010	-11.67744	50.00000	Averaged
78 sec-Butylbenzene	3.15647	3.46751	3.46751	0.010	-9.85388	50.00000	Averaged
79 4-Isopropyltoluene	2.68270	2.87650	2.87650	0.010	-7.22401	50.00000	Averaged
80 1,3-Dichlorobenzene	1.39754	1.45352	1.45352	0.010	-4.00507	50.00000	Averaged
81 1,4-Dichlorobenzene	1.48261	1.45140	1.45140	0.010	2.10505	50.00000	Averaged
82 n-Butylbenzene	2.32775	2.48752	2.48752	0.010	-6.86377	50.00000	Averaged
83 1,2-Dichlorobenzene	1.30847	1.33318	1.33318	0.010	-1.88817	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	0.10583	0.10110	0.10110	0.010	4.47757	50.00000	Averaged
85 1,2,4-Trichlorobenzene	0.84675	0.82413	0.82413	0.010	2.67049	50.00000	Averaged
87 Naphthalene	1.94875	1.77460	1.77460	0.010	8.93656	50.00000	Averaged
86 Hexachlorobutadiene	0.54279	0.51170	0.51170	0.010	5.72801	50.00000	Averaged
88 1,2,3-Trichlorobenzene	0.83409	0.76867	0.76867	0.010	7.84395	50.00000	Averaged
98 Cyclohexane	0.58694	0.63397	0.63397	0.010	-8.01428	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 26-FEB-2010 11:30
Lab File ID: 148213.D Init. Cal. Date(s): 08-JAN-2010 14-JAN-2010
Analysis Type: SOIL Init. Cal. Times: 12:27 17:14
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
143 Methyl Acetate	0.24297	0.23434	0.23434	0.010	3.55354	50.00000	Averaged
144 Methylcyclohexane	0.50183	0.57209	0.57209	0.010	-14.00034	50.00000	Averaged
141 1,3,5-Trichlorobenzene	0.99845	1.00224	1.00224	0.010	-0.37998	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Lab Smp Id: 250NG-CC
Inj Date : 26-FEB-2010 11:30
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-CC
Misc Info : R00226A,8260SUX14,1-8260.SUB,2807,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 a3ux14.i Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1312011	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	965181	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	531218	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	355144	250.000	245.70
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	349789	250.000	236.03
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1330643	250.000	254.31
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	493336	250.000	250.46
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	356685	250.000	268.79
9 Chloromethane	50	1.452	1.452	(0.220)	464431	250.000	242.09
10 Vinyl Chloride	62	1.570	1.570	(0.238)	389911	250.000	269.46
11 Bromomethane	94	1.878	1.878	(0.285)	187452	250.000	265.32
12 Chloroethane	64	1.996	1.996	(0.303)	218456	250.000	256.00
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	415552	250.000	298.19
15 Acrolein	56	2.730	2.730	(0.414)	313832	2500.00	1903.2
16 Acetone	43	2.931	2.931	(0.444)	225960	500.000	517.98
17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	316120	250.000	252.18
18 Freon-113	151	2.896	2.896	(0.439)	280285	250.000	278.41
19 Iodomethane	142	3.026	3.026	(0.459)	559629	250.000	261.94
20 Carbon Disulfide	76	3.097	3.097	(0.469)	891782	250.000	248.38

21 Methylene Chloride	84	3.499	3.499 (0.530)	357776	250.000	252.66
22 Acetonitrile	41	3.286	3.286 (0.498)	414302	2500.00	2380.4
23 Acrylonitrile	53	3.890	3.890 (0.589)	243500	500.000	471.56

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	873455	250.000	268.19
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	374818	250.000	257.48
	26 Hexane	86	4.387	4.387	(0.665)	84854	250.000	252.59
	27 Vinyl acetate	43	4.694	4.694	(0.711)	270744	250.000	161.21
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	23512	250.000	157.12(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	671089	250.000	257.64
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	571672	5000.00	4817.0
	30 2-Butanone	43	5.380	5.380	(0.815)	276376	500.000	411.08
M	31 1,2-Dichloroethene (total)	96				759569	500.000	
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	384751	250.000	257.96
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	267817	250.000	262.78
	34 Bromochloromethane	128	5.605	5.605	(0.849)	185593	250.000	256.01
	35 Chloroform	83	5.724	5.724	(0.867)	608768	250.000	254.96
	36 Tetrahydrofuran	42	5.676	5.676	(0.860)	92374	250.000	212.12
	37 1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	478745	250.000	277.30
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	483955	250.000	267.31
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	485656	250.000	323.65
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	437410	250.000	247.52
	41 Benzene	78	6.303	6.303	(0.955)	1399497	250.000	246.78
	42 Trichloroethene	130	6.966	6.966	(1.056)	395898	250.000	253.30
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	355773	250.000	250.42
	44 1,4-Dioxane	88	7.309	7.309	(1.108)	135286	12500.0	11541
	45 Dibromomethane	93	7.274	7.274	(1.102)	177071	250.000	244.74
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	384642	250.000	262.27
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	283139	500.000	422.62
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	448538	250.000	248.67
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	554066	500.000	475.36
	50 Toluene	91	8.138	8.138	(0.872)	1513117	250.000	265.42
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	368399	250.000	245.89
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	311437	250.000	212.87
	53 1,1,2-Trichloroethane	97	8.493	8.493	(0.910)	252902	250.000	248.69
	54 1,3-Dichloropropane	76	8.635	8.635	(0.925)	423952	250.000	248.83
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	315878	250.000	262.46
	56 2-Hexanone	43	8.717	8.717	(0.934)	378544	500.000	471.41
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	280569	250.000	264.31
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	241522	250.000	245.98
	59 Chlorobenzene	112	9.356	9.356	(1.003)	996062	250.000	254.20
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	338862	250.000	272.67
	61 Ethylbenzene	106	9.451	9.451	(1.013)	545921	250.000	270.31
	62 m + p-Xylene	106	9.557	9.557	(1.024)	1361862	500.000	557.37
	64 Xylene-o	106	9.889	9.889	(1.060)	647276	250.000	281.15
	65 Styrene	104	9.901	9.901	(1.061)	1033498	250.000	282.41
	66 Bromoform	173	10.054	10.054	(1.077)	169260	250.000	263.36
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	1747958	250.000	282.90
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	327857	250.000	251.60
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	97051	250.000	240.05
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	93790	250.000	248.36
	71 Bromobenzene	156	10.457	10.457	(0.925)	404919	250.000	258.89
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	495269	250.000	272.34
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	420126	250.000	283.97
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1417776	250.000	281.49
	75 4-Chlorotoluene	126	10.717	10.717	(0.948)	436219	250.000	279.24

76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1308926	250.000	280.66
77	1,2,4-Trimethylbenzene	105	11.013	11.013 (0.974)	1435374	250.000	279.19

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
78 sec-Butylbenzene	105	11.155	11.155	(0.986)	1842003	250.000	274.63
79 4-Isopropyltoluene	119	11.273	11.273	(0.997)	1528047	250.000	268.06
80 1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	772134	250.000	260.01
81 1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	771012	250.000	244.74
82 n-Butylbenzene	91	11.616	11.616	(1.027)	1321417	250.000	267.16
83 1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	708208	250.000	254.72
84 1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	53704	250.000	238.81
85 1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	437795	250.000	243.32
87 Naphthalene	128	13.178	13.178	(1.165)	942700	250.000	227.66
86 Hexachlorobutadiene	225	13.131	13.131	(1.161)	271824	250.000	235.68
88 1,2,3-Trichlorobenzene	180	13.380	13.380	(1.183)	408330	250.000	230.39
98 Cyclohexane	56	5.960	5.960	(0.903)	831781	250.000	270.04
143 Methyl Acetate	43	3.393	3.393	(0.514)	614907	500.000	482.23
144 Methylcyclohexane	83	7.144	7.144	(1.082)	750584	250.000	285.00
141 1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	532408	250.000	250.95

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Report Date: 26-Feb-2010 12:32

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 148213.D
Lab Smp Id: 250NG-CC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,2

Calibration Date: 26-FEB-2010
Calibration Time: 11:52
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1360516	680258	2721032	1312011	-3.57
2 Chlorobenzene-d5	954083	477042	1908166	965181	1.16
3 1,4-Dichlorobenze	468006	234003	936012	531218	13.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148213.D
Date : 26-FEB-2010 11:30
Client ID:
Sample Info: 25ONG-CC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total)+
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Tetrahydrofuran
-Chloroform
-1,2-Dichloroethane-d4
1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,4-Dioxane+
1,2-Dichloropropane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-trans-1,3-Dichloropropene
Toluene-d8
-Ethyl Methacrylate
1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
1,3-Dichloropropane+
Chlorobenzene-d5
1,1,1,2-Tetrachloroethane+
-Xylenes (total)
m + p-Xylene
-Bromoform
Xylene-o+
Isopropylbenzene
Bromofluorobenzene
1,1,2,2-Tetrachloroethane+
n-Propylbenzene
1,3,5-Trimethylbenzene+
sec-Butylbenzene
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,3,5-Trichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148215.D
Report Date: 26-Feb-2010 12:33

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
* 1 Fluorobenzene	0.0000	50.000	0.00	0-0
* 2 Chlorobenzene-d5	0.0000	50.000	0.00	0-0
* 3 1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$ 6 Toluene-d8	50.000	49.693	99.39	50-150
$ 7 Bromofluorobenzene	50.000	50.933	101.87	50-150
60 1,1,1,2-Tetrachlor	5.000	5.125	102.50	70-130
37 1,1,1-Trichloroeth	5.000	5.427	108.54	70-130
68 1,1,2,2-Tetrachlor	5.000	5.421	108.42	70-130
53 1,1,2-Trichloroeth	5.000	5.268	105.37	70-130
28 1,1-Dichloroethane	5.000	5.124	102.48	70-130
17 1,1-Dichloroethene	5.000	5.217	104.35	70-130
38 1,1-Dichloropropen	5.000	5.109	102.18	70-130
88 1,2,3-Trichloroben	5.000	4.970	99.41	70-130
70 1,2,3-Trichloropro	5.000	5.059	101.18	70-130
85 1,2,4-Trichloroben	5.000	4.936	98.72	70-130
77 1,2,4-Trimethylben	5.000	5.038	100.77	70-130
84 1,2-Dibromo-3-chlo	5.000	4.119	82.37	70-130
58 1,2-Dibromoethane	5.000	5.044	100.87	70-130
83 1,2-Dichlorobenzen	5.000	5.521	110.42	70-130
40 1,2-Dichloroethane	5.000	5.229	104.58	70-130
43 1,2-Dichloropropan	5.000	5.037	100.74	70-130
74 1,3,5-Trimethylben	5.000	5.163	103.26	70-130
80 1,3-Dichlorobenzen	5.000	5.596	111.92	70-130
54 1,3-Dichloropropan	5.000	5.200	104.00	70-130
81 1,4-Dichlorobenzen	5.000	5.644	112.87	70-130
33 2,2-Dichloropropan	5.000	4.877	97.53	70-130
30 2-Butanone	10.000	9.246	92.47	70-130
73 2-Chlorotoluene	5.000	5.905	118.11	70-130
56 2-Hexanone	10.000	9.446	94.46	70-130
75 4-Chlorotoluene	5.000	5.813	116.26	70-130
49 4-Methyl-2-pentano	10.000	8.829	88.29	70-130
16 Acetone	10.000	6.251	62.51*	70-130
41 Benzene	5.000	5.154	103.08	70-130
71 Bromobenzene	5.000	5.726	114.51	70-130
34 Bromochloromethane	5.000	5.037	100.75	70-130
46 Bromodichlorometha	5.000	4.857	97.13	70-130
66 Bromoform	5.000	4.294	85.89	70-130
11 Bromomethane	5.000	4.922	98.43	70-130

20 Carbon Disulfide	5.000	4.115	82.30	70-130
39 Carbon Tetrachlori	5.000	6.146	122.92	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148215.D
Report Date: 26-Feb-2010 12:33

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	59 Chlorobenzene	5.000	5.379	107.59	70-130
	57 Dibromochlorometha	5.000	4.816	96.32	70-130
	12 Chloroethane	5.000	4.704	94.07	70-130
	35 Chloroform	5.000	5.106	102.12	70-130
	9 Chloromethane	5.000	4.970	99.40	70-130
	32 cis-1,2-dichloroet	5.000	4.959	99.17	70-130
	48 cis-1,3-Dichloropr	5.000	4.231	84.62	70-130
	45 Dibromomethane	5.000	5.064	101.28	70-130
	8 Dichlorodifluorome	5.000	5.969	119.39	70-130
	61 Ethylbenzene	5.000	5.261	105.23	70-130
	86 Hexachlorobutadien	5.000	5.342	106.83	70-130
	67 Isopropylbenzene	5.000	4.644	92.88	70-130
	62 m + p-Xylene	10.000	11.105	111.05	70-130
	21 Methylene Chloride	5.000	2.646	52.92*	70-130
	87 Naphthalene	5.000	3.735	74.70	70-130
	82 n-Butylbenzene	5.000	4.716	94.32	70-130
	72 n-Propylbenzene	5.000	5.166	103.33	70-130
	64 Xylene-o	5.000	4.968	99.37	70-130
	79 4-Isopropyltoluene	5.000	4.872	97.45	70-130
	78 sec-Butylbenzene	5.000	5.102	102.04	70-130
	65 Styrene	5.000	4.912	98.24	70-130
	76 tert-Butylbenzene	5.000	4.735	94.70	70-130
	55 Tetrachloroethene	5.000	5.801	116.02	70-130
	50 Toluene	5.000	6.027	120.54	70-130
	25 trans-1,2-Dichloro	5.000	5.101	102.03	70-130
	51 trans-1,3-Dichloro	5.000	4.323	86.47	70-130
	42 Trichloroethene	5.000	5.191	103.83	70-130
	13 Trichlorofluoromet	5.000	4.533	90.65	70-130
	10 Vinyl Chloride	5.000	5.277	105.54	70-130
	19 Iodomethane	5.000	4.930	98.59	70-130
	24 Methyl tert-butyl	5.000	4.915	98.30	70-130
	15 Acrolein	50.000	41.858	83.72	70-130
	18 Freon-113	5.000	5.720	114.40	70-130
	22 Acetonitrile	50.000	53.132	106.26	70-130
	23 Acrylonitrile	10.000	9.468	94.68	70-130
	26 Hexane	5.000	4.286	85.73	70-130
	29 tert-Butyl Alcohol	100.00	101.47	101.47	70-130
M	31 1,2-Dichloroethene	10.000	10.060	100.60	70-130
	36 Tetrahydrofuran	5.000	4.620	92.39	70-130
	47 2-Chloroethyl viny	10.000	8.719	87.19	70-130
	44 1,4-Dioxane	250.00	241.42	96.57	70-130
	52 Ethyl Methacrylate	5.000	4.358	87.16	70-130
M	63 Xylenes (total)	15.000	16.074	107.16	70-130
	69 1,4-Dichloro-2-but	5.000	4.253	85.07	70-130
	98 Cyclohexane	5.000	5.143	102.86	70-130
	141 1,3,5-Trichloroben	5.000	5.083	101.67	70-130
	143 Methyl Acetate	10.000	10.246	102.46	70-130
	144 Methylcyclohexane	5.000	5.064	101.27	70-130
	27 Vinyl acetate	5.000	3.137	62.75*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148215.D
Report Date: 26-Feb-2010 12:33

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	50.000	47.283	94.57	59-138
$ 5 1,2-Dichloroethane	50.000	48.036	96.07	61-130
$ 6 Toluene-d8	250.00	49.693	99.39	60-143
$ 7 Bromofluorobenzene	250.00	50.933	101.87	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148215.D
Report Date: 26-Feb-2010 12:33

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148215.D
Lab Smp Id: QCMRL
Inj Date : 26-FEB-2010 12:14
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMRL
Misc Info : R00226A,8260SUX14,1-8260.SUB,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 4 QC Sample: MRL
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1379328	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	1028832	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	544745	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	359259	236.414	47.283
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	374201	240.179	48.036
$ 6 Toluene-d8	98	8.078	8.090	(0.866)	1385795	248.464	49.693
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	514392	254.666	50.933
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	41639	29.8469	5.969
9 Chloromethane	50	1.452	1.452	(0.220)	50118	24.8492	4.970
10 Vinyl Chloride	62	1.570	1.570	(0.238)	40137	26.3838	5.277
11 Bromomethane	94	1.890	1.878	(0.286)	18278	24.6082	4.922
12 Chloroethane	64	2.008	1.996	(0.304)	21099	23.5182	4.704
13 Trichlorofluoromethane	101	2.257	2.268	(0.342)	33203	22.6632	4.533
15 Acrolein	56	2.730	2.730	(0.414)	36282	209.288	41.858
16 Acetone	43	2.931	2.931	(0.444)	39931	31.2559	6.251(R)
17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	34378	26.0865	5.217
18 Freon-113	151	2.896	2.896	(0.439)	30270	28.6004	5.720
19 Iodomethane	142	3.014	3.026	(0.457)	55362	24.6477	4.930
20 Carbon Disulfide	76	3.097	3.097	(0.469)	77659	20.5739	4.115

21	Methylene Chloride	84	3.499	3.499 (0.530)	49550	13.2309	2.646(R)
22	Acetonitrile	41	3.286	3.286 (0.498)	48609	265.662	53.132
23	Acrylonitrile	53	3.889	3.890 (0.589)	25700	47.3409	9.468

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148215.D
Report Date: 26-Feb-2010 12:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.960	3.972	(0.600)	84142	24.5749	4.915
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	39035	25.5069	5.101
	26 Hexane	86	4.386	4.387	(0.665)	7569	21.4318	4.286
	27 Vinyl acetate	43	4.694	4.694	(0.711)	27698	15.6875	3.137(R)
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	2300	14.6202	2.924(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	70158	25.6197	5.124
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	63304	507.374	101.47
	30 2-Butanone	43	5.380	5.380	(0.815)	32678	46.2326	9.246
M	31 1,2-Dichloroethene (total)	96				77913	50.3005	10.060
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	38878	24.7936	4.959
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	26126	24.3837	4.877
	34 Bromochloromethane	128	5.605	5.605	(0.849)	19196	25.1867	5.037
	35 Chloroform	83	5.724	5.724	(0.867)	64086	25.5306	5.106
	36 Tetrahydrofuran	42	5.676	5.676	(0.860)	10575	23.0983	4.620
	37 1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	49249	27.1339	5.427
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	48620	25.5448	5.109
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	48478	30.7298	6.146
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	48571	26.1438	5.229
	41 Benzene	78	6.303	6.303	(0.955)	153633	25.7690	5.154
	42 Trichloroethene	130	6.966	6.966	(1.056)	42651	25.9569	5.191
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	37617	25.1855	5.037
	44 1,4-Dioxane	88	7.309	7.309	(1.108)	14876	1207.10	241.42
	45 Dibromomethane	93	7.274	7.274	(1.102)	19258	25.3188	5.064
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	37441	24.2835	4.857
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	24688	43.5942	8.719
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	40118	21.1558	4.231
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	54847	44.1449	8.829
	50 Toluene	91	8.138	8.138	(0.872)	183121	30.1349	6.027
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	34523	21.6172	4.323
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	27759	21.7892	4.358
	53 1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	28556	26.3428	5.268
	54 1,3-Dichloropropane	76	8.634	8.635	(0.925)	47219	25.9996	5.200
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	37211	29.0052	5.801
	56 2-Hexanone	43	8.717	8.717	(0.934)	40427	47.2300	9.446
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	27248	24.0806	4.816
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	26394	25.2181	5.044
	59 Chlorobenzene	112	9.356	9.356	(1.003)	112344	26.8971	5.379
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	33947	25.6260	5.125
	61 Ethylbenzene	106	9.451	9.451	(1.013)	56635	26.3073	5.261
	62 m + p-Xylene	106	9.557	9.557	(1.024)	144619	55.5265	11.105
M	63 Xylenes (total)	106				205583	80.3688	16.074
	64 Xylene-o	106	9.889	9.889	(1.060)	60964	24.8423	4.968
	65 Styrene	104	9.901	9.901	(1.061)	95807	24.5605	4.912
	66 Bromoform	173	10.054	10.054	(1.077)	14710	21.4721	4.294
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	152924	23.2192	4.644
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	36219	27.1045	5.421
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	8817	21.2667	4.253
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	9796	25.2961	5.059
	71 Bromobenzene	156	10.457	10.457	(0.925)	45917	28.6283	5.726
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	48174	25.8325	5.166
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	44796	29.5263	5.905
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	133330	25.8145	5.163

75 4-Chlorotoluene	126	10.705	10.717 (0.947)	46559	29.0643	5.813
76 tert-Butylbenzene	119	10.977	10.977 (0.971)	113227	23.6752	4.735

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148215.D
Report Date: 26-Feb-2010 12:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	132811	25.1915	5.038
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	175463	25.5112	5.102
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	142414	24.3628	4.872
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	85208	27.9809	5.596
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	91161	28.2181	5.644
82	n-Butylbenzene	91	11.616	11.616	(1.027)	119601	23.5801	4.716
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	78708	27.6059	5.521
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	4749	20.5930	4.119
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	45535	24.6796	4.936
87	Naphthalene	128	13.178	13.178	(1.165)	79304	18.6761	3.735
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	31589	26.7085	5.342
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	45167	24.8515	4.970
98	Cyclohexane	56	5.960	5.960	(0.903)	83276	25.7159	5.143
143	Methyl Acetate	43	3.393	3.393	(0.514)	68675	51.2290	10.246
144	Methylcyclohexane	83	7.144	7.144	(1.082)	70098	25.3176	5.064
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	55297	25.4170	5.083

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148215.D
Report Date: 26-Feb-2010 12:33

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

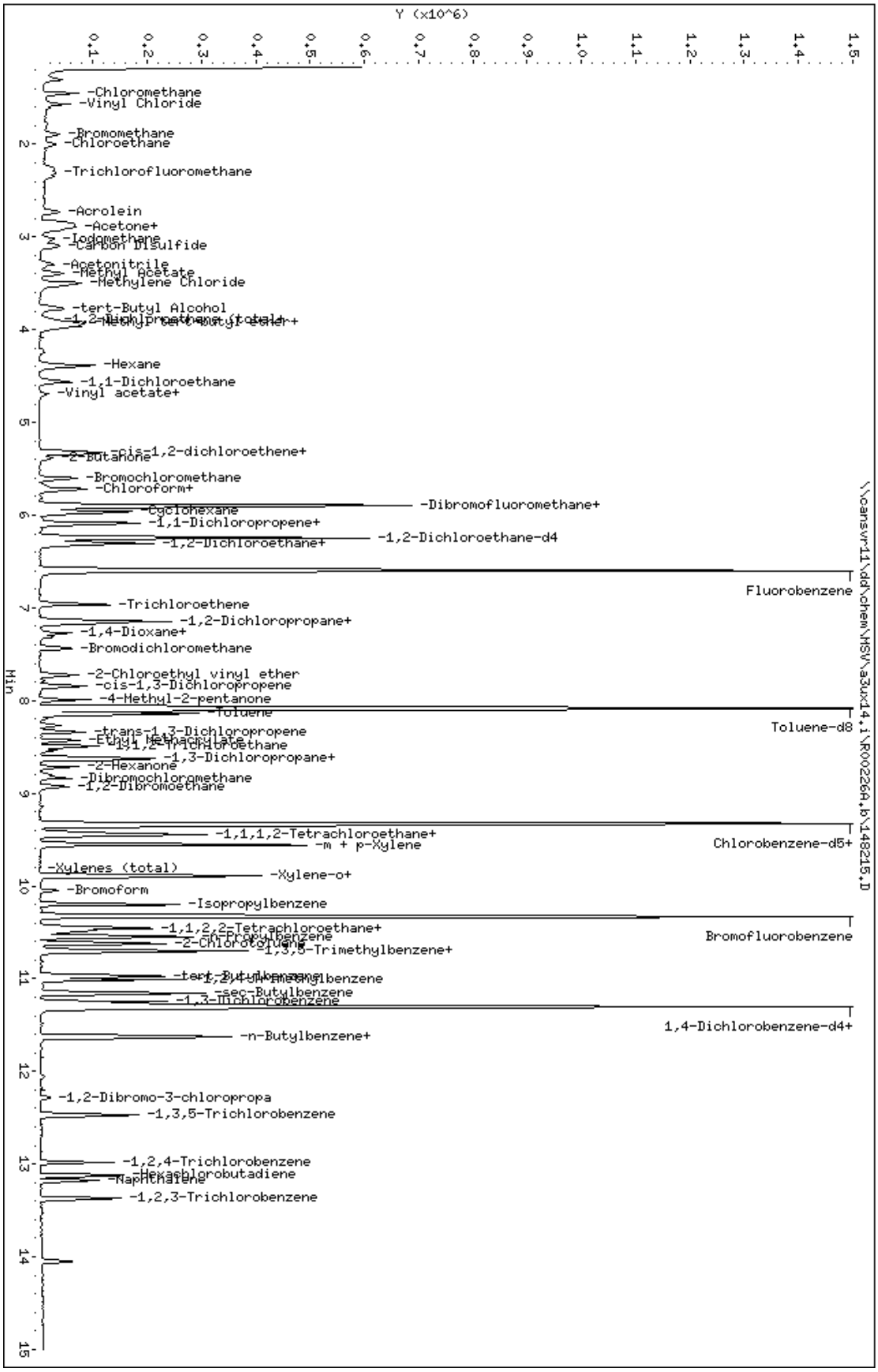
Instrument ID: a3ux14.i
Lab File ID: 148215.D
Lab Smp Id: QCMRL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1379328	5.13
2 Chlorobenzene-d5	965181	482591	1930362	1028832	6.59
3 1,4-Dichlorobenze	531218	265609	1062436	544745	2.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148215.D
Date : 26-FEB-2010 12:14
Client ID:
Sample Info: QCHRL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148215.D
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-2-Butanone
-cis-1,2-dichloroethene+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chlorgethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane+
-4-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
Bromofluorobenzene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 16-Mar-2010 11:29

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
* 1 Fluorobenzene	0.0000	50.000	0.00	0-0
* 2 Chlorobenzene-d5	0.0000	50.000	0.00	0-0
* 3 1,4-Dichlorobenzen	0.0000	50.000	0.00	0-0
$ 6 Toluene-d8	50.000	49.910	99.82	50-150
$ 7 Bromofluorobenzene	50.000	50.305	100.61	50-150
60 1,1,1,2-Tetrachlor	5.000	5.097	101.93	70-130
37 1,1,1-Trichloroeth	5.000	6.088	121.77	70-130
68 1,1,2,2-Tetrachlor	5.000	5.378	107.56	70-130
53 1,1,2-Trichloroeth	5.000	5.240	104.80	70-130
28 1,1-Dichloroethane	5.000	5.373	107.47	70-130
17 1,1-Dichloroethene	5.000	5.637	112.73	70-130
38 1,1-Dichloropropen	5.000	5.291	105.82	70-130
88 1,2,3-Trichloroben	5.000	4.504	90.09	70-130
70 1,2,3-Trichloropro	5.000	6.097	121.95	70-130
85 1,2,4-Trichloroben	5.000	4.496	89.92	70-130
77 1,2,4-Trimethylben	5.000	4.763	95.27	70-130
84 1,2-Dibromo-3-chlo	5.000	4.342	86.83	70-130
58 1,2-Dibromoethane	5.000	5.159	103.18	70-130
83 1,2-Dichlorobenzen	5.000	5.452	109.04	70-130
40 1,2-Dichloroethane	5.000	5.496	109.93	70-130
43 1,2-Dichloropropan	5.000	5.168	103.36	70-130
74 1,3,5-Trimethylben	5.000	4.896	97.91	70-130
80 1,3-Dichlorobenzen	5.000	5.362	107.24	70-130
54 1,3-Dichloropropan	5.000	5.344	106.87	70-130
81 1,4-Dichlorobenzen	5.000	5.363	107.27	70-130
33 2,2-Dichloropropan	5.000	5.300	106.00	70-130
30 2-Butanone	10.000	8.750	87.50	70-130
73 2-Chlorotoluene	5.000	5.713	114.25	70-130
56 2-Hexanone	10.000	8.941	89.41	70-130
75 4-Chlorotoluene	5.000	5.560	111.20	70-130
49 4-Methyl-2-pentano	10.000	8.570	85.70	70-130
16 Acetone	10.000	10.842	108.42	70-130
41 Benzene	5.000	5.286	105.72	70-130
71 Bromobenzene	5.000	5.485	109.70	70-130
34 Bromochloromethane	5.000	5.416	108.33	70-130
46 Bromodichlorometha	5.000	5.202	104.05	70-130
66 Bromoform	5.000	4.659	93.17	70-130
11 Bromomethane	5.000	6.228	124.57	70-130

20 Carbon Disulfide	5.000	5.276	105.53	70-130
39 Carbon Tetrachlori	5.000	6.722	134.43*	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 16-Mar-2010 11:29

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	59 Chlorobenzene	5.000	5.719	114.38	70-130
	57 Dibromochlorometha	5.000	4.852	97.05	70-130
	12 Chloroethane	5.000	5.197	103.94	70-130
	35 Chloroform	5.000	5.420	108.40	70-130
	9 Chloromethane	5.000	5.186	103.73	70-130
	32 cis-1,2-dichloroet	5.000	5.100	102.01	70-130
	48 cis-1,3-Dichloropr	5.000	4.147	82.94	70-130
	45 Dibromomethane	5.000	5.623	112.46	70-130
	8 Dichlorodifluorome	5.000	5.454	109.09	70-130
	61 Ethylbenzene	5.000	5.430	108.60	70-130
	86 Hexachlorobutadien	5.000	5.105	102.09	70-130
	67 Isopropylbenzene	5.000	4.675	93.50	70-130
	62 m + p-Xylene	10.000	10.724	107.24	70-130
	21 Methylene Chloride	5.000	4.150	82.99	70-130
	87 Naphthalene	5.000	3.219	64.38*	70-130
	82 n-Butylbenzene	5.000	4.521	90.41	70-130
	72 n-Propylbenzene	5.000	5.017	100.35	70-130
	64 Xylene-o	5.000	5.048	100.95	70-130
	79 4-Isopropyltoluene	5.000	4.491	89.81	70-130
	78 sec-Butylbenzene	5.000	4.805	96.10	70-130
	65 Styrene	5.000	4.830	96.61	70-130
	76 tert-Butylbenzene	5.000	4.431	88.62	70-130
	55 Tetrachloroethene	5.000	5.447	108.94	70-130
	50 Toluene	5.000	6.295	125.89	70-130
	25 trans-1,2-Dichloro	5.000	5.530	110.59	70-130
	51 trans-1,3-Dichloro	5.000	4.345	86.90	70-130
	42 Trichloroethene	5.000	5.238	104.77	70-130
	13 Trichlorofluoromet	5.000	5.031	100.63	70-130
	10 Vinyl Chloride	5.000	5.273	105.46	70-130
	19 Iodomethane	5.000	5.904	118.07	70-130
	24 Methyl tert-butyl	5.000	4.980	99.61	70-130
	15 Acrolein	50.000	78.620	157.24*	70-130
	18 Freon-113	5.000	6.325	126.51	70-130
	22 Acetonitrile	50.000	58.428	116.86	70-130
	23 Acrylonitrile	10.000	9.934	99.34	70-130
	26 Hexane	5.000	5.240	104.81	70-130
	29 tert-Butyl Alcohol	100.00	100.94	100.94	70-130
M	31 1,2-Dichloroethene	10.000	10.630	106.30	70-130
	36 Tetrahydrofuran	5.000	4.290	85.80	70-130
	47 2-Chloroethyl viny	10.000	7.742	77.42	70-130
	44 1,4-Dioxane	250.00	238.51	95.40	70-130
	52 Ethyl Methacrylate	5.000	4.355	87.10	70-130
M	63 Xylenes (total)	15.000	15.771	105.14	70-130
	69 1,4-Dichloro-2-but	5.000	4.607	92.14	70-130
	98 Cyclohexane	5.000	5.738	114.75	70-130
	141 1,3,5-Trichloroben	5.000	5.066	101.31	70-130
	143 Methyl Acetate	10.000	9.160	91.60	70-130
	144 Methylcyclohexane	5.000	5.118	102.36	70-130
	27 Vinyl acetate	5.000	5.632	112.63	70-130

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 16-Mar-2010 11:29

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00468
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: QCMRL
Level: LOW Operator: 2807
Data Type: MS DATA SampleType: MRL
SpikeList File: MRL.spk Quant Type: ISTD
Sublist File: 1-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	50.000	50.840	101.68	59-138
$ 5 1,2-Dichloroethane	50.000	50.322	100.64	61-130
$ 6 Toluene-d8	50.000	49.910	99.82	60-143
$ 7 Bromofluorobenzene	50.000	50.305	100.61	47-158

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 16-Mar-2010 11:29

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Lab Smp Id: QCMRL
Inj Date : 26-FEB-2010 21:17
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMRL
Misc Info : R00226A,8260SUX14,1-8260.SUB,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 29 QC Sample: MRL
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV12

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1145191	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	847304	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	481941	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	320719	254.203	50.840
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	325469	251.611	50.322
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1146285	249.552	49.910
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	449472	251.524	50.305
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	31589	27.2725	5.454
9 Chloromethane	50	1.452	1.452	(0.220)	43423	25.9316	5.186
10 Vinyl Chloride	62	1.570	1.570	(0.238)	33301	26.3657	5.273
11 Bromomethane	94	1.890	1.878	(0.286)	19205	31.1426	6.228
12 Chloroethane	64	1.996	1.996	(0.303)	19355	25.9851	5.197
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	30600	25.1568	5.031
15 Acrolein	56	2.730	2.730	(0.414)	56580	393.102	78.620(R)
16 Acetone	43	2.931	2.931	(0.444)	40891	54.2109	10.842
17 1,1-Dichloroethene	96	2.848	2.848	(0.432)	30837	28.1837	5.637
18 Freon-113	151	2.896	2.896	(0.439)	27791	31.6267	6.325
19 Iodomethane	142	3.026	3.026	(0.459)	55046	29.5176	5.904
20 Carbon Disulfide	76	3.097	3.097	(0.469)	82680	26.3824	5.276

21 Methylene Chloride	84	3.511	3.499 (0.532)	49652	20.7482	4.150
22 Acetonitrile	41	3.298	3.286 (0.500)	44380	292.139	58.428
23 Acrylonitrile	53	3.889	3.890 (0.589)	22387	49.6694	9.934

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 16-Mar-2010 11:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	70787	24.9013	4.980
	25 trans-1,2-Dichloroethene	96	3.937	3.925	(0.597)	35129	27.6476	5.530
	26 Hexane	86	4.398	4.387	(0.666)	7683	26.2024	5.240
	27 Vinyl acetate	43	4.694	4.694	(0.711)	41278	28.1587	5.632
	154 Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	3525	26.9882	5.398(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	61084	26.8667	5.373
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	52279	504.678	100.94
	30 2-Butanone	43	5.380	5.380	(0.815)	25675	43.7515	8.750
M	31 1,2-Dichloroethene (total)	96				68329	53.1490	10.630
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	33200	25.5014	5.100
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	23574	26.5002	5.300
	34 Bromochloromethane	128	5.605	5.605	(0.849)	17137	27.0822	5.416
	35 Chloroform	83	5.724	5.724	(0.867)	56479	27.1003	5.420
	36 Tetrahydrofuran	42	5.688	5.676	(0.862)	8153	21.4490	4.290
	37 1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	45875	30.4425	6.088
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	41806	26.4554	5.291
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	44019	33.6082	6.722(R)
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	42391	27.4825	5.496
	41 Benzene	78	6.303	6.303	(0.955)	130821	26.4290	5.286
	42 Trichloroethene	130	6.966	6.966	(1.056)	35732	26.1921	5.238
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	32043	25.8398	5.168
	44 1,4-Dioxane	88	7.309	7.309	(1.108)	12202	1192.55	238.51
	45 Dibromomethane	93	7.274	7.274	(1.102)	17755	28.1153	5.623
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	33299	26.0126	5.202
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	17578	38.7121	7.742
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	32646	20.7353	4.147
	49 4-Methyl-2-pentanone	43	7.996	7.996	(0.857)	43846	42.8512	8.570
	50 Toluene	91	8.149	8.138	(0.873)	157509	31.4733	6.295
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	28572	21.7239	4.345
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	22843	21.7753	4.355
	53 1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	23390	26.1999	5.240
	54 1,3-Dichloropropane	76	8.634	8.635	(0.925)	39963	26.7186	5.344
	55 Tetrachloroethene	164	8.623	8.623	(0.924)	28774	27.2339	5.447
	56 2-Hexanone	43	8.717	8.717	(0.934)	31515	44.7063	8.941
	57 Dibromochloromethane	129	8.836	8.836	(0.947)	22610	24.2627	4.852
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	22234	25.7947	5.159
	59 Chlorobenzene	112	9.356	9.356	(1.003)	98360	28.5942	5.719
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	27802	25.4836	5.097
	61 Ethylbenzene	106	9.451	9.451	(1.013)	48137	27.1504	5.430
	62 m + p-Xylene	106	9.557	9.557	(1.024)	115010	53.6187	10.724
M	63 Xylenes (total)	106				166017	78.8565	15.771
	64 Xylene-o	106	9.889	9.889	(1.060)	51007	25.2379	5.048
	65 Styrene	104	9.901	9.901	(1.061)	77589	24.1515	4.830
	66 Bromoform	173	10.054	10.054	(1.077)	13142	23.2931	4.659
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	126789	23.3753	4.675
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	31790	26.8903	5.378
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	8449	23.0347	4.607
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	10445	30.4869	6.097
	71 Bromobenzene	156	10.457	10.457	(0.925)	38915	27.4245	5.485
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	41389	25.0864	5.017
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	38339	28.5634	5.713
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	111851	24.4780	4.896

75	4-Chlorotoluene	126	10.717	10.717 (0.948)	39399	27.7997	5.560
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	93739	22.1545	4.431

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 16-Mar-2010 11:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	111088	23.8170	4.763
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	146186	24.0242	4.805
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	116120	22.4534	4.491
80	1,3-Dichlorobenzene	146	11.250	11.250	(0.995)	72231	26.8105	5.362
81	1,4-Dichlorobenzene	146	11.321	11.321	(1.001)	76647	26.8172	5.363
82	n-Butylbenzene	91	11.628	11.616	(1.028)	101429	22.6033	4.521
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	68760	27.2595	5.452
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	4429	21.7082	4.342
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	36695	22.4802	4.496
87	Naphthalene	128	13.178	13.178	(1.165)	60461	16.0940	3.219(R)
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	26707	25.5234	5.105
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	36214	22.5221	4.504
98	Cyclohexane	56	5.960	5.960	(0.903)	77130	28.6877	5.738
143	Methyl Acetate	43	3.393	3.393	(0.514)	50974	45.7989	9.160
144	Methylcyclohexane	83	7.144	7.144	(1.082)	58828	25.5912	5.118
141	1,3,5-Trichlorobenzene	180	12.480	12.480	(1.104)	48750	25.3277	5.066

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148240.D
Report Date: 16-Mar-2010 11:29

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

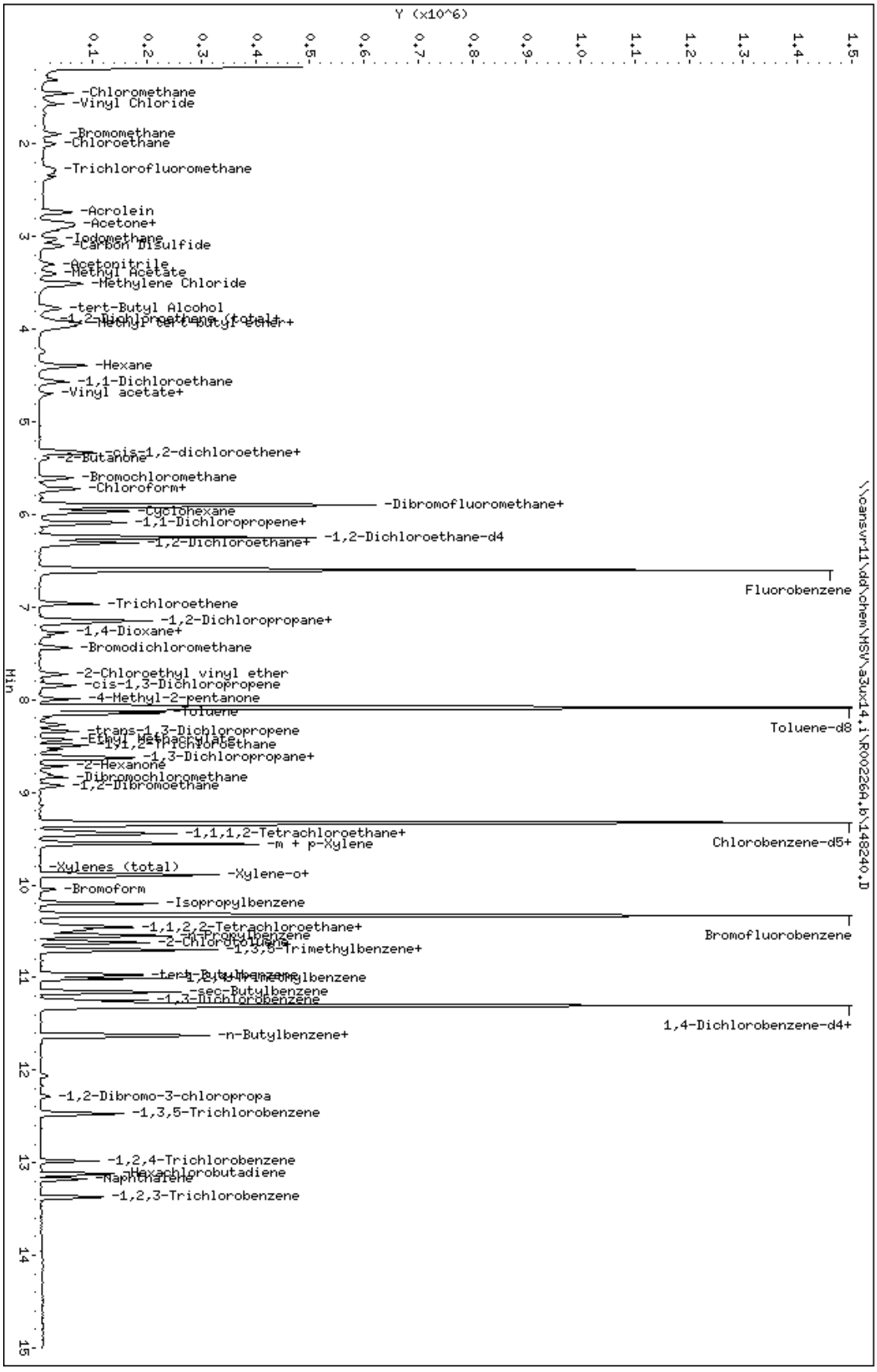
Instrument ID: a3ux14.i
Lab File ID: 148240.D
Lab Smp Id: QCMRL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,1-8260.SUB,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1145191	-12.71
2 Chlorobenzene-d5	965181	482591	1930362	847304	-12.21
3 1,4-Dichlorobenze	531218	265609	1062436	481941	-9.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



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Date : 26-FEB-2010 21:17
Client ID:
Sample Info: QCHRL
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 16-Mar-2010 11:29

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Lab Smp Id: QCMDL
Inj Date : 26-FEB-2010 21:39
Operator : 2807 Inst ID: a3ux14.i
Smp Info : QCMDL
Misc Info : R00226A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV12

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1135608	250.000	
* 2 Chlorobenzene-d5	117	9.332	9.333	(1.000)	838221	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	464475	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	305273	244.002	48.800
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	315815	246.208	49.242
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1075573	236.695	47.339
$ 7 Bromofluorobenzene	95	10.326	10.327	(0.913)	424325	246.380	49.276
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	11799	10.2727	2.054
9 Chloromethane	50	1.452	1.452	(0.220)	15125	9.10864	1.822
10 Vinyl Chloride	62	1.570	1.570	(0.238)	12349	9.85968	1.972
11 Bromomethane	94	1.890	1.878	(0.286)	8534	13.9554	2.791
12 Chloroethane	64	1.996	1.996	(0.303)	7678	10.3951	2.079
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	9810	8.13302	1.627
15 Acrolein	56	2.742	2.730	(0.415)	23532	164.874	32.975
16 Acetone	43	2.931	2.931	(0.444)	44021	64.5979	12.920
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	10943	10.0858	2.017
18 Freon-113	151	2.895	2.896	(0.439)	9981	11.4544	2.291
19 Iodomethane	142	3.014	3.026	(0.457)	20115	10.8774	2.175
20 Carbon Disulfide	76	3.097	3.097	(0.469)	29014	9.33621	1.867
21 Methylene Chloride	84	3.511	3.499	(0.532)	32727	6.04668	1.209

22 Acetonitrile	41	3.298	3.286 (0.500)	19023	126.279	25.256
23 Acrylonitrile	53	3.889	3.890 (0.589)	7957	17.8029	3.560

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 16-Mar-2010 11:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.972	3.972	(0.602)	23977	8.50574	1.701
	25 trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	12245	9.71853	1.944
	26 Hexane	86	4.398	4.387	(0.666)	2271	7.81047	1.562
	27 Vinyl acetate	43	4.706	4.694	(0.713)	15810	10.8762	2.175
	154 Vinyl Acetate**2nd**	86	4.706	4.694	(0.713)	1234	9.52752	1.906(A)
	28 1,1-Dichloroethane	63	4.564	4.564	(0.692)	21952	9.73667	1.947
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.571)	17694	172.251	34.450
	30 2-Butanone	43	5.392	5.380	(0.817)	17035	29.2735	5.855
M	31 1,2-Dichloroethene (total)	96				24445	19.1686	3.834
	32 cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	12200	9.45006	1.890
	33 2,2-Dichloropropane	77	5.321	5.321	(0.806)	8583	9.72982	1.946
	34 Bromochloromethane	128	5.605	5.605	(0.849)	6656	10.6075	2.121
	35 Chloroform	83	5.723	5.724	(0.867)	20834	10.0811	2.016
	36 Tetrahydrofuran	42	5.688	5.676	(0.862)	3435	9.11310	1.823
	37 1,1,1-Trichloroethane	97	5.901	5.901	(0.894)	16305	10.9113	2.182
	38 1,1-Dichloropropene	75	6.090	6.090	(0.923)	13996	8.93161	1.786
	39 Carbon Tetrachloride	117	6.090	6.090	(0.923)	15872	12.2204	2.444
	40 1,2-Dichloroethane	62	6.327	6.327	(0.959)	15581	10.1865	2.037
	41 Benzene	78	6.303	6.303	(0.955)	45666	9.30349	1.861
	42 Trichloroethene	130	6.966	6.966	(1.056)	13607	10.0583	2.012
	43 1,2-Dichloropropane	63	7.167	7.167	(1.086)	10764	8.75344	1.751
	44 1,4-Dioxane	88	7.321	7.309	(1.109)	3493	344.267	68.853
	45 Dibromomethane	93	7.274	7.274	(1.102)	6186	9.87828	1.976
	46 Bromodichloromethane	83	7.439	7.439	(1.127)	11571	9.11534	1.823
	47 2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	6336	20.0006	4.000
	48 cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	11098	7.10844	1.422
	49 4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	16272	16.0751	3.215
	50 Toluene	91	8.137	8.138	(0.872)	52806	10.6660	2.133
	51 trans-1,3-Dichloropropene	75	8.339	8.339	(0.893)	10218	7.85314	1.571
	52 Ethyl Methacrylate	69	8.433	8.433	(0.904)	7405	10.0622	2.012
	53 1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	9515	10.7735	2.155
	54 1,3-Dichloropropane	76	8.634	8.635	(0.925)	12824	8.66682	1.733
	55 Tetrachloroethene	164	8.622	8.623	(0.924)	11257	10.7699	2.154
	56 2-Hexanone	43	8.717	8.717	(0.934)	15453	22.1587	4.432
	57 Dibromochloromethane	129	8.835	8.836	(0.947)	7785	8.44457	1.689
	58 1,2-Dibromoethane	107	8.930	8.930	(0.957)	8144	9.55060	1.910
	59 Chlorobenzene	112	9.356	9.356	(1.003)	33598	9.87311	1.975
	60 1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	10269	9.51467	1.903
	61 Ethylbenzene	106	9.451	9.451	(1.013)	16172	9.22023	1.844
	62 m + p-Xylene	106	9.557	9.557	(1.024)	36156	17.0389	3.408
M	63 Xylenes (total)	106				52735	25.3309	5.066
	64 Xylene-o	106	9.889	9.889	(1.060)	16579	8.29205	1.658
	65 Styrene	104	9.900	9.901	(1.061)	23004	7.23817	1.448
	66 Bromoform	173	10.054	10.054	(1.077)	4676	8.37763	1.676
	67 Isopropylbenzene	105	10.196	10.196	(1.093)	43024	8.01803	1.604
	68 1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	11964	10.5006	2.100
	69 1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	3420	9.67466	1.935
	70 1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	3206	9.70957	1.942
	71 Bromobenzene	156	10.457	10.457	(0.925)	13666	9.99297	1.998
	72 n-Propylbenzene	120	10.551	10.551	(0.933)	12958	8.14935	1.630
	73 2-Chlorotoluene	126	10.622	10.622	(0.939)	12782	9.88096	1.976
	74 1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	35965	8.16672	1.633

75	4-Chlorotoluene	126	10.705	10.717 (0.947)	12620	9.23944	1.848
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	32016	7.85129	1.570

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 16-Mar-2010 11:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	37148	8.26392	1.653
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	47032	8.01990	1.604
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	37789	7.58178	1.516
80	1,3-Dichlorobenzene	146	11.249	11.250	(0.995)	25761	9.92145	1.984
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	28088	10.1970	2.039
82	n-Butylbenzene	91	11.616	11.616	(1.027)	34763	8.03819	1.608
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	24548	10.0979	2.020
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	1865	9.48480	1.897
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	14447	9.18337	1.837
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	10259	10.1730	2.035
87	Naphthalene	128	13.178	13.178	(1.165)	25556	7.05852	1.412
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	14402	9.29364	1.859
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	762	11.9968	2.399
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	20936	7.85263	1.570
143	Methyl Acetate	43	3.404	3.393	(0.516)	19245	17.4371	3.487
144	Methylcyclohexane	83	7.143	7.144	(1.082)	17277	7.57921	1.516
141	1,3,5-Trichlorobenzene	180	12.468	12.480	(1.103)	18937	10.2086	2.042
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	4326	0.98494	0.1970(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Report Date: 16-Mar-2010 11:29

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

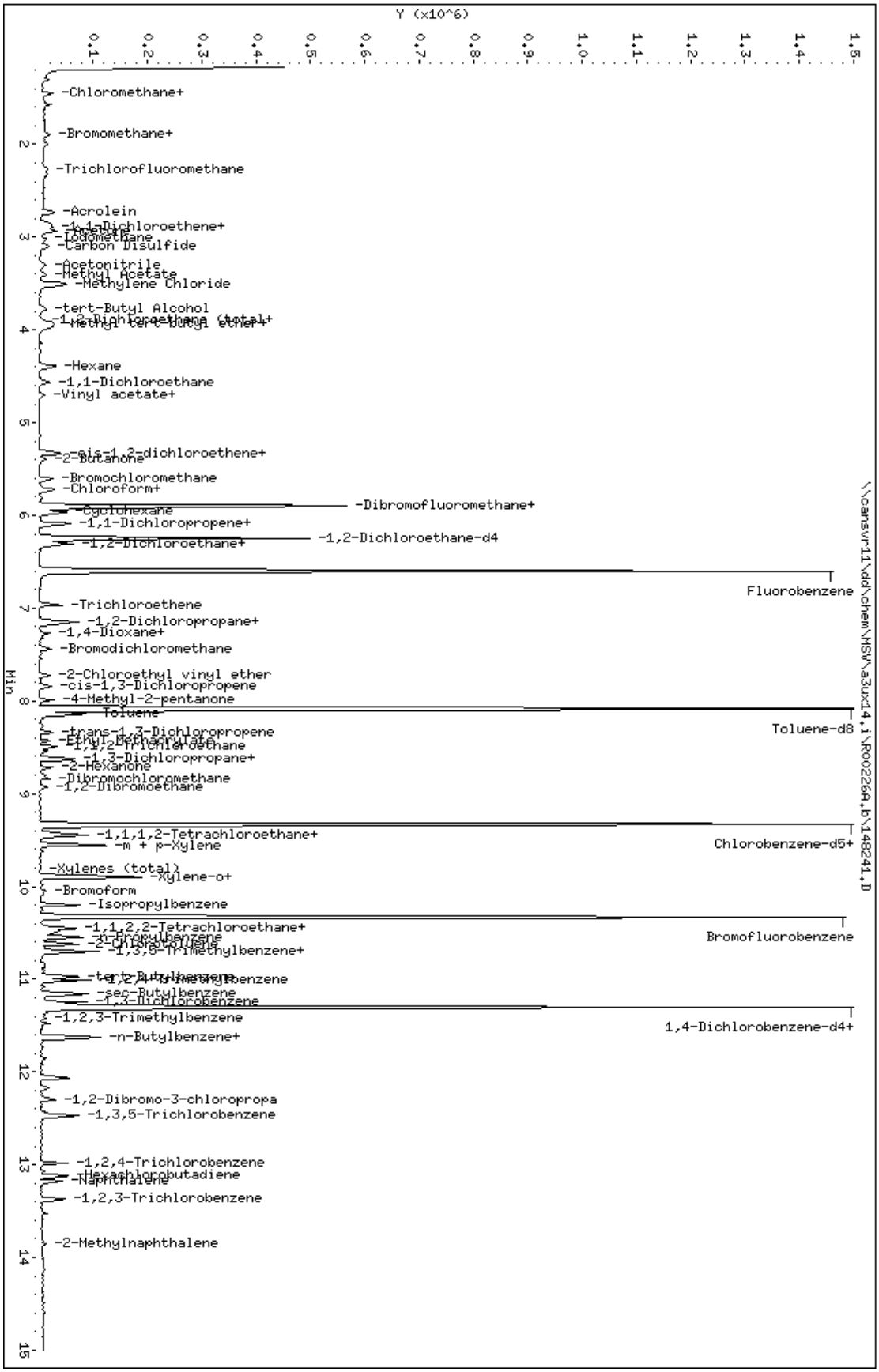
Instrument ID: a3ux14.i
Lab File ID: 148241.D
Lab Smp Id: QCMDL
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1135608	-13.45
2 Chlorobenzene-d5	965181	482591	1930362	838221	-13.15
3 1,4-Dichlorobenze	531218	265609	1062436	464475	-12.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D
Date : 26-FEB-2010 21:39
Client ID:
Sample Info: QCMDL
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-Xylene-o+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane+
Bromofluorobenzene
-1,3,5-Trimethylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,2,3-Trimethylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148241.D

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

TestAmerica North Canton

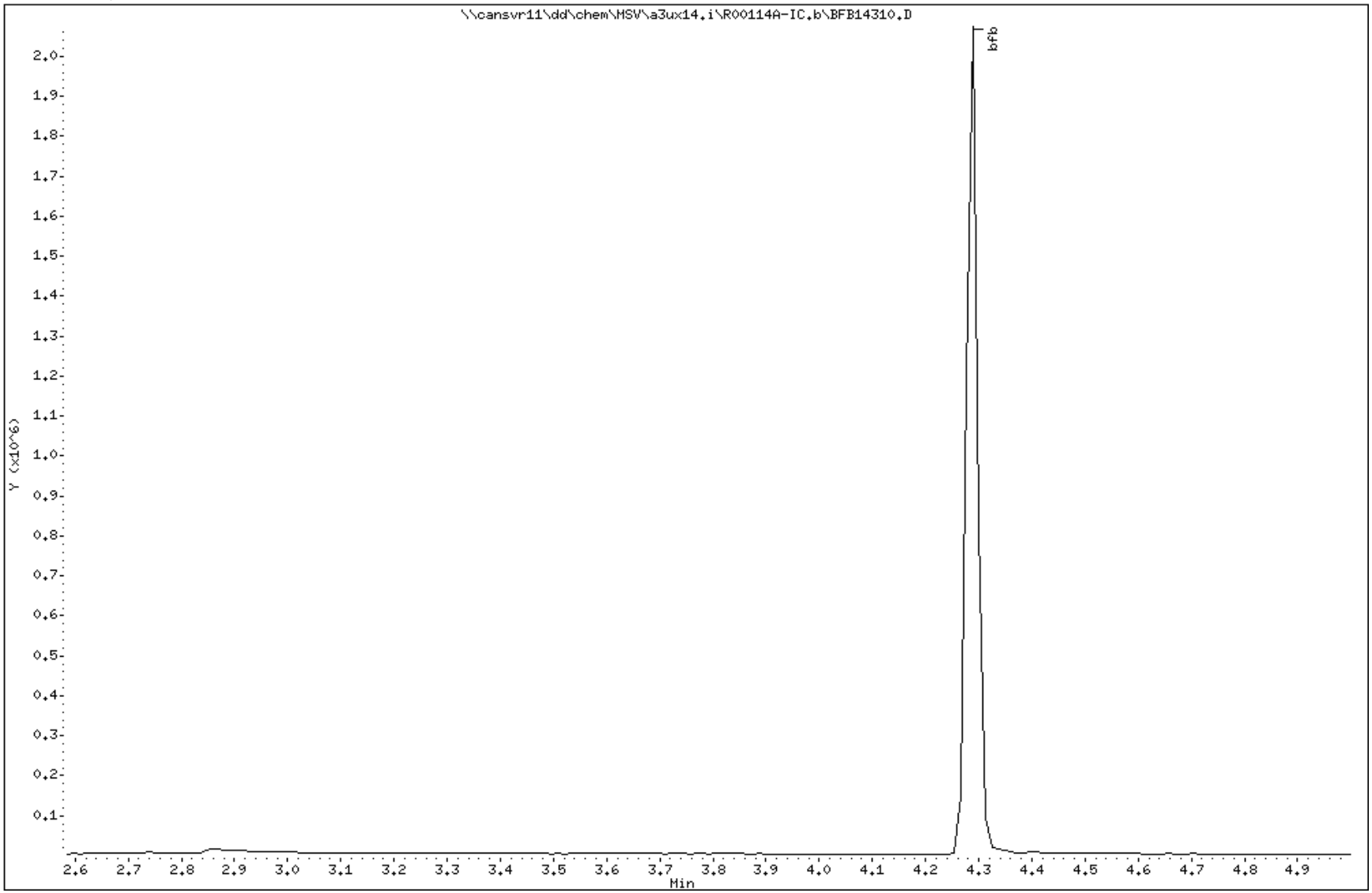
Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFB14310.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 14-JAN-2010 10:00
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : R00114A-IC,BFBSUX14,,2807
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFBSUX14.m
Meth Date : 28-May-2008 09:44 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	MASS	RESPONSE				
1 bfb						CAS #: 460-00-4		
4.289	4.118	0.171	95	292544			100.00- 100.00	100.00
4.289	4.118	0.171	50	53352			15.00- 40.00	18.24
4.289	4.118	0.171	75	130200			30.00- 60.00	44.51
4.289	4.118	0.171	96	19416			5.00- 9.00	6.64
4.289	4.118	0.171	173	580			0.00- 2.00	0.23
4.289	4.118	0.171	174	248000			50.00- 120.00	84.77
4.289	4.118	0.171	175	17632			5.00- 9.00	7.11
4.289	4.118	0.171	176	239040			95.00- 101.00	96.39
4.289	4.118	0.171	177	15716			5.00- 9.00	6.57

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00114A-IC.b\BFB14310.D Page 1
Date : 14-JAN-2010 10:00
Client ID: 50NGBFB Instrument: a3ux14.i
Sample Info: 50NG INJECTION OF BFB
Operator: 2807
Column phase: DB624 20m Column diameter: 0.18



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Date : 14-JAN-2010 10:00

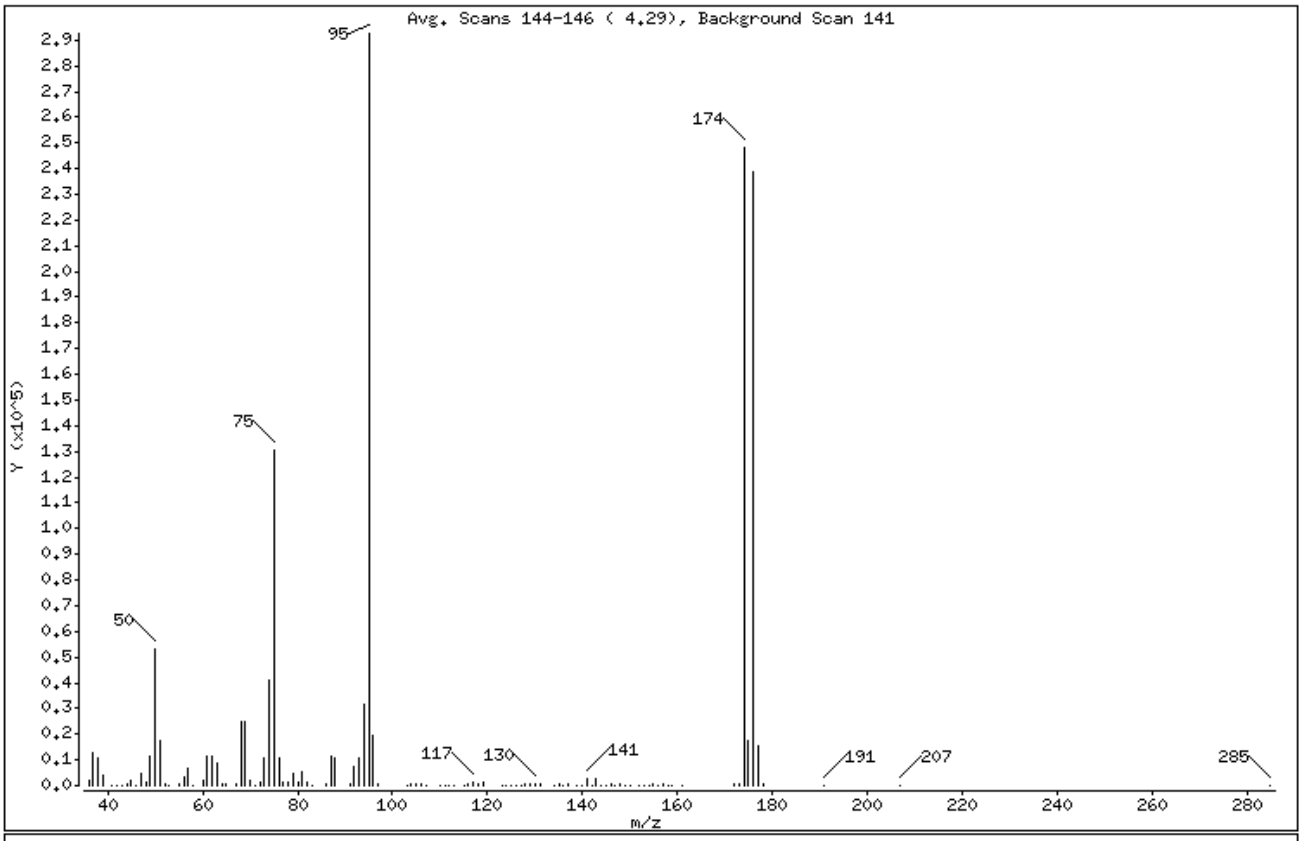
Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.24
75	30.00 - 60.00% of mass 95	44.51
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.20 (0.23)
174	50.00 - 120.00% of mass 95	84.77
175	5.00 - 9.00% of mass 174	6.03 (7.11)
176	95.00 - 101.00% of mass 174	81.71 (96.39)
177	5.00 - 9.00% of mass 176	5.37 (6.57)

Date : 14-JAN-2010 10:00

Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

Data File: BFB14310.D
Spectrum: Avg. Scans 144-146 (4.29), Background Scan 141
Location of Maximum: 95.00
Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2026	69.00	25128	107.00	245	145.00	229
37.00	12651	70.00	1747	110.00	201	146.00	346
38.00	10885	71.00	140	111.00	55	147.00	237
39.00	4160	72.00	1152	112.00	60	148.00	648
41.00	106	73.00	10976	113.00	99	149.00	219
42.00	51	74.00	40944	115.00	220	150.00	234
43.00	113	75.00	130200	116.00	833	152.00	156
44.00	859	76.00	10628	117.00	1501	153.00	165
45.00	2194	77.00	1664	118.00	871	154.00	184
46.00	251	78.00	1032	119.00	1311	155.00	698
47.00	4631	79.00	4699	123.00	50	156.00	146
48.00	1595	80.00	1399	124.00	126	157.00	453
49.00	11357	81.00	5329	125.00	51	158.00	72
50.00	53352	82.00	1164	126.00	57	159.00	307
51.00	17720	83.00	142	127.00	53	161.00	299
52.00	644	86.00	415	128.00	838	172.00	753
53.00	60	87.00	11643	129.00	432	173.00	580
55.00	635	88.00	10581	130.00	906	174.00	248000
56.00	3687	91.00	797	131.00	341	175.00	17632
57.00	6493	92.00	7572	134.00	53	176.00	239040
58.00	264	93.00	10628	135.00	386	177.00	15716
60.00	2205	94.00	31352	136.00	148	178.00	617
61.00	11720	95.00	292544	137.00	451	191.00	112
62.00	11556	96.00	19416	139.00	148	207.00	214
63.00	8408	97.00	565	140.00	123	285.00	52
64.00	780	103.00	116	141.00	2571		
65.00	373	104.00	966	142.00	282		
67.00	557	105.00	342	143.00	2567		
68.00	25072	106.00	912	144.00	160		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFB14339.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 26-FEB-2010 10:48
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : R00226A,BFBSUX14,,2807
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFBSUX14.m
Meth Date : 28-May-2008 09:44 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.288	4.118	0.170	95	192320			100.00- 100.00	100.00
4.288	4.118	0.170	50	34376			15.00- 40.00	17.87
4.288	4.118	0.170	75	84344			30.00- 60.00	43.86
4.288	4.118	0.170	96	13482			5.00- 9.00	7.01
4.288	4.118	0.170	173	753			0.00- 2.00	0.46
4.288	4.118	0.170	174	165248			50.00- 120.00	85.92
4.288	4.118	0.170	175	11518			5.00- 9.00	6.97
4.288	4.118	0.170	176	159744			95.00- 101.00	96.67
4.288	4.118	0.170	177	10377			5.00- 9.00	6.50

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFB14339.D

Page 1

Date : 26-FEB-2010 10:48

Client ID: 50NGBFB

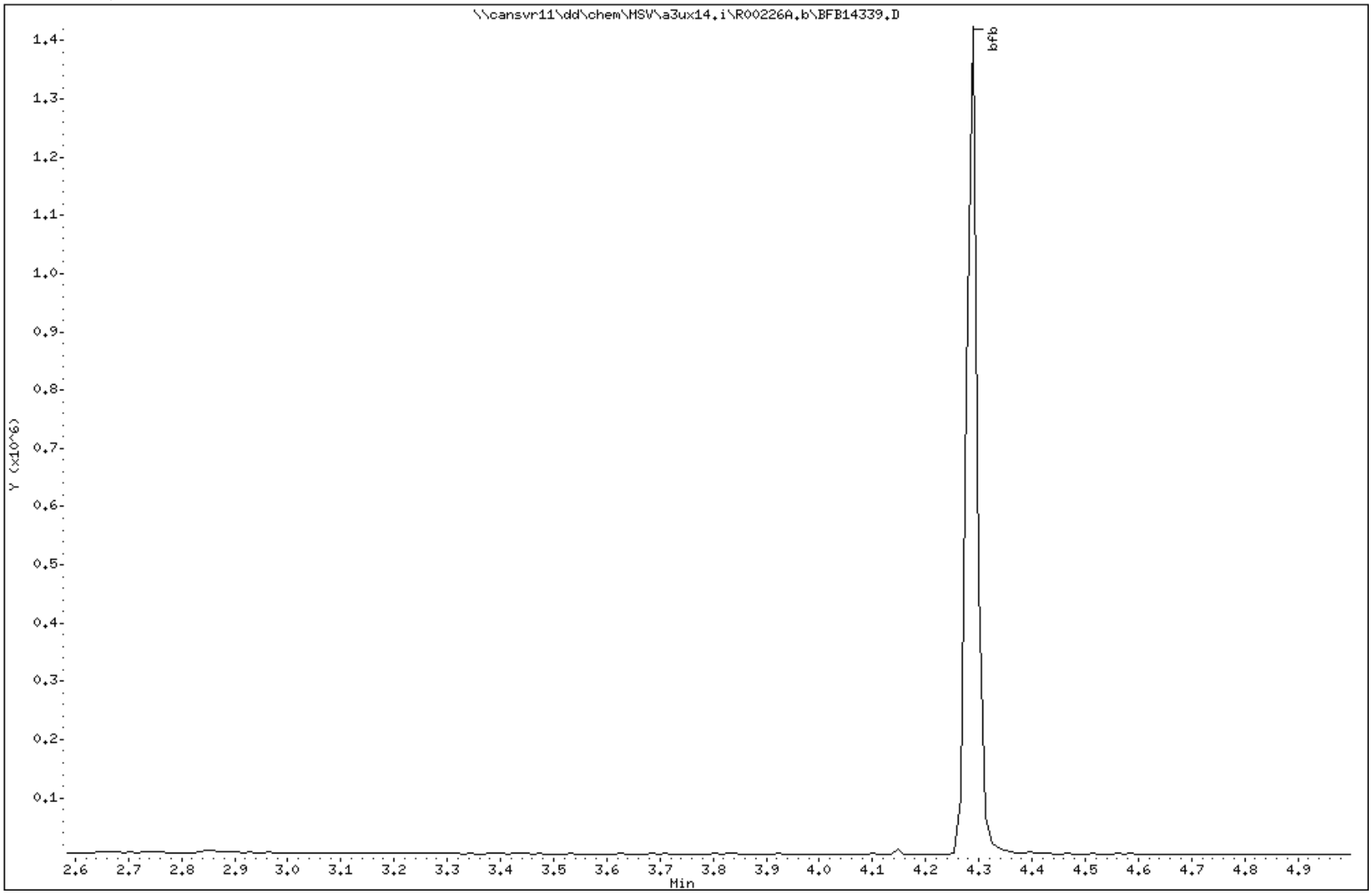
Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\BFB14339.D

Page 2

Date : 26-FEB-2010 10:48

Client ID: 50NGBFB

Instrument: a3ux14.i

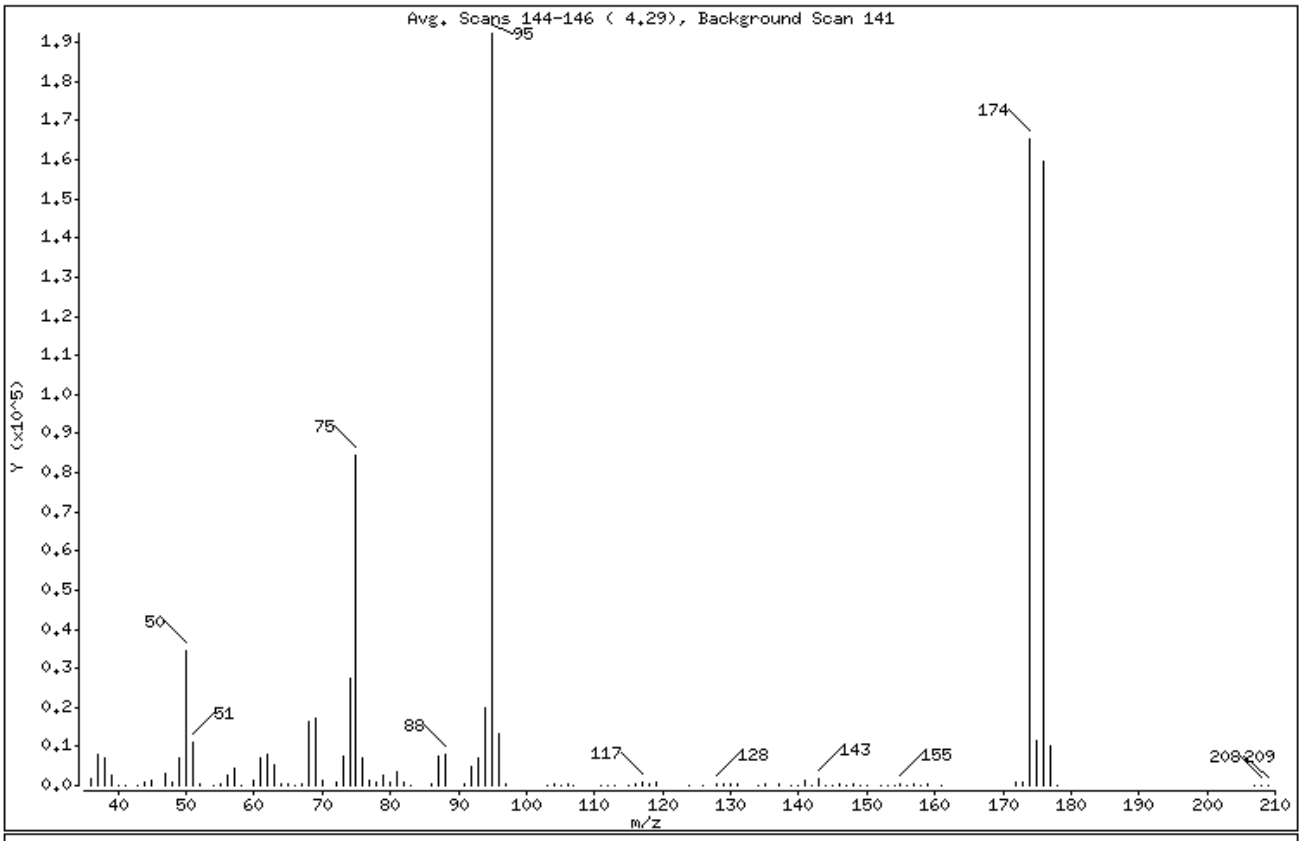
Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.87
75	30.00 - 60.00% of mass 95	43.86
96	5.00 - 9.00% of mass 95	7.01
173	Less than 2.00% of mass 174	0.39 (0.46)
174	50.00 - 120.00% of mass 95	85.92
175	5.00 - 9.00% of mass 174	5.99 (6.97)
176	95.00 - 101.00% of mass 174	83.06 (96.67)
177	5.00 - 9.00% of mass 176	5.40 (6.50)

Date : 26-FEB-2010 10:48

Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

Data File: BFB14339.D
Spectrum: Avg. Scans 144-146 (4.29), Background Scan 141
Location of Maximum: 95.00
Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1585	67.00	357	104.00	621	145.00	142
37.00	7992	68.00	16263	105.00	212	146.00	239
38.00	7234	69.00	17056	106.00	636	147.00	163
39.00	2673	70.00	1293	107.00	72	148.00	461
40.00	214	72.00	877	111.00	53	149.00	110
41.00	50	73.00	7323	112.00	111	150.00	109
43.00	118	74.00	27208	113.00	144	152.00	201
44.00	804	75.00	84344	115.00	148	153.00	147
45.00	1406	76.00	7068	116.00	593	154.00	168
47.00	3075	77.00	1179	117.00	943	155.00	428
48.00	926	78.00	692	118.00	662	156.00	55
49.00	6930	79.00	2737	119.00	882	157.00	359
50.00	34376	80.00	1017	124.00	68	158.00	61
51.00	11020	81.00	3420	126.00	50	159.00	268
52.00	604	82.00	708	128.00	594	161.00	199
54.00	51	83.00	51	129.00	352	172.00	724
55.00	368	86.00	265	130.00	561	173.00	753
56.00	2516	87.00	7615	131.00	228	174.00	165248
57.00	4425	88.00	8070	134.00	53	175.00	11518
58.00	91	91.00	510	135.00	232	176.00	159744
60.00	1380	92.00	4845	137.00	326	177.00	10377
61.00	7118	93.00	7151	139.00	74	178.00	179
62.00	7893	94.00	20056	140.00	131	207.00	110
63.00	5418	95.00	192320	141.00	1522	208.00	155
64.00	523	96.00	13482	142.00	196	209.00	123
65.00	392	97.00	308	143.00	1674		
66.00	50	103.00	57	144.00	64		

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	113	(65 - 135)			SW846 8260B
	111	(65 - 135)	1.9	(0-30)	SW846 8260B
Trichloroethene	102	(75 - 125)			SW846 8260B
	101	(75 - 125)	1.6	(0-30)	SW846 8260B
Benzene	102	(75 - 125)			SW846 8260B
	100	(75 - 125)	2.2	(0-30)	SW846 8260B
Toluene	105	(70 - 125)			SW846 8260B
	107	(70 - 125)	1.5	(0-30)	SW846 8260B
Chlorobenzene	101	(75 - 125)			SW846 8260B
	102	(75 - 125)	1.3	(0-30)	SW846 8260B
Acetone	125	(20 - 160)			SW846 8260B
	121	(20 - 160)	2.9	(0-37)	SW846 8260B
Bromodichloromethane	106	(70 - 130)			SW846 8260B
	102	(70 - 130)	3.8	(0-30)	SW846 8260B
Bromoform	110	(55 - 135)			SW846 8260B
	105	(55 - 135)	4.9	(0-30)	SW846 8260B
Bromomethane	102	(30 - 160)			SW846 8260B
	102	(30 - 160)	0.20	(0-30)	SW846 8260B
2-Butanone	93	(30 - 160)			SW846 8260B
	87	(30 - 160)	7.2	(0-33)	SW846 8260B
Bromochloromethane	104	(70 - 125)			SW846 8260B
	100	(70 - 125)	3.4	(0-30)	SW846 8260B
Carbon disulfide	109	(45 - 160)			SW846 8260B
	109	(45 - 160)	0.040	(0-36)	SW846 8260B
Carbon tetrachloride	134	(65 - 135)			SW846 8260B
	131	(65 - 135)	2.7	(0-30)	SW846 8260B
Chloroethane	94	(40 - 155)			SW846 8260B
	94	(40 - 155)	0.15	(0-30)	SW846 8260B
Chloroform	104	(70 - 125)			SW846 8260B
	101	(70 - 125)	3.6	(0-30)	SW846 8260B
Chloromethane	81	(50 - 130)			SW846 8260B
	83	(50 - 130)	1.6	(0-30)	SW846 8260B
1,2-Dibromoethane	103	(70 - 125)			SW846 8260B
	102	(70 - 125)	1.3	(0-30)	SW846 8260B
1,1-Dichloroethane	108	(75 - 125)			SW846 8260B
	107	(75 - 125)	1.2	(0-47)	SW846 8260B
1,2-Dichloroethane	103	(70 - 135)			SW846 8260B
	99	(70 - 135)	3.8	(0-43)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloropropane	100	(70 - 120)			SW846 8260B
	99	(70 - 120)	0.86	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	99	(70 - 125)			SW846 8260B
	95	(70 - 125)	4.2	(0-40)	SW846 8260B
trans-1,3-Dichloropropene	101	(65 - 125)			SW846 8260B
	100	(65 - 125)	0.92	(0-32)	SW846 8260B
Ethylbenzene	110	(75 - 125)			SW846 8260B
	110	(75 - 125)	0.21	(0-30)	SW846 8260B
2-Hexanone	104	(45 - 145)			SW846 8260B
	95	(45 - 145)	8.3	(0-31)	SW846 8260B
Methylene chloride	105	(55 - 140)			SW846 8260B
	104	(55 - 140)	0.86	(0-30)	SW846 8260B
4-Methyl-2-pentanone	101	(45 - 145)			SW846 8260B
	92	(45 - 145)	9.5	(0-39)	SW846 8260B
Styrene	111	(75 - 125)			SW846 8260B
	110	(75 - 125)	0.75	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	103	(55 - 130)			SW846 8260B
	99	(55 - 130)	3.6	(0-30)	SW846 8260B
Tetrachloroethene	104	(65 - 140)			SW846 8260B
	105	(65 - 140)	0.61	(0-30)	SW846 8260B
1,1,2-Trichloroethane	101	(60 - 125)			SW846 8260B
	98	(60 - 125)	2.9	(0-30)	SW846 8260B
1,1,1-Trichloroethane	115	(70 - 135)			SW846 8260B
	114	(70 - 135)	0.48	(0-30)	SW846 8260B
Xylenes (total)	113	(75 - 125)			SW846 8260B
	114	(75 - 125)	0.060	(0-30)	SW846 8260B
Vinyl chloride	93	(60 - 125)			SW846 8260B
	94	(60 - 125)	0.36	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro-propane	114	(40 - 135)			SW846 8260B
	103	(40 - 135)	10	(0-30)	SW846 8260B
1,3-Dichlorobenzene	103	(70 - 125)			SW846 8260B
	105	(70 - 125)	2.7	(0-30)	SW846 8260B
1,4-Dichlorobenzene	98	(70 - 125)			SW846 8260B
	99	(70 - 125)	1.4	(0-30)	SW846 8260B
1,2-Dichlorobenzene	102	(75 - 120)			SW846 8260B
	103	(75 - 120)	1.3	(0-30)	SW846 8260B
Dichlorodifluoromethane	69	(35 - 135)			SW846 8260B
	67	(35 - 135)	2.6	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	111	(65 - 135)			SW846 8260B
	109	(65 - 135)	1.7	(0-30)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,2-Dichloroethene	106	(65 - 125)			SW846 8260B
	104	(65 - 125)	1.5	(0-30)	SW846 8260B
Naphthalene	109	(40 - 125)			SW846 8260B
	103	(40 - 125)	5.6	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	107	(75 - 125)			SW846 8260B
	108	(75 - 125)	0.93	(0-30)	SW846 8260B
Trichlorofluoromethane	121	(25 - 185)			SW846 8260B
	122	(25 - 185)	0.22	(0-30)	SW846 8260B
o-Xylene	115	(75 - 125)			SW846 8260B
	115	(75 - 125)	0.36	(0-30)	SW846 8260B
m-Xylene & p-Xylene	113	(80 - 125)			SW846 8260B
	113	(80 - 125)	0.080	(0-30)	SW846 8260B
Isopropylbenzene	114	(75 - 130)			SW846 8260B
	115	(75 - 130)	0.23	(0-30)	SW846 8260B
1,1-Dichloropropene	110	(70 - 135)			SW846 8260B
	107	(70 - 135)	2.3	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	103	(60 - 135)			SW846 8260B
	104	(60 - 135)	1.0	(0-30)	SW846 8260B
1,2,3-Trichloropropane	111	(65 - 130)			SW846 8260B
	110	(65 - 130)	0.88	(0-30)	SW846 8260B
1,2,4-Trichloro-benzene	106	(65 - 130)			SW846 8260B
	111	(65 - 130)	4.2	(0-30)	SW846 8260B
2,2-Dichloropropane	110	(65 - 135)			SW846 8260B
	108	(65 - 135)	1.7	(0-30)	SW846 8260B
2-Chlorotoluene	112	(70 - 130)			SW846 8260B
	116	(70 - 130)	3.4	(0-30)	SW846 8260B
4-Chlorotoluene	109	(75 - 125)			SW846 8260B
	113	(75 - 125)	2.9	(0-30)	SW846 8260B
Bromobenzene	103	(65 - 120)			SW846 8260B
	105	(65 - 120)	2.2	(0-30)	SW846 8260B
Dibromomethane	102	(75 - 130)			SW846 8260B
	97	(75 - 130)	4.7	(0-30)	SW846 8260B
Hexachlorobutadiene	100	(55 - 140)			SW846 8260B
	104	(55 - 140)	4.0	(0-50)	SW846 8260B
n-Butylbenzene	110	(65 - 140)			SW846 8260B
	114	(65 - 140)	3.7	(0-30)	SW846 8260B
n-Propylbenzene	109	(65 - 135)			SW846 8260B
	115	(65 - 135)	4.7	(0-30)	SW846 8260B
p-Isopropyltoluene	110	(75 - 135)			SW846 8260B
	114	(75 - 135)	3.4	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
sec-Butylbenzene	**110**	**(65 - 130)**			**SW846 8260B**
	113	**(65 - 130)**	**2.8**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**111**	**(65 - 130)**			**SW846 8260B**
	115	**(65 - 130)**	**3.8**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**113**	**(65 - 135)**			**SW846 8260B**
	117	**(65 - 135)**	**3.4**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**111**	**(65 - 135)**			**SW846 8260B**
	114	**(65 - 135)**	**3.4**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 130)
	90	(61 - 130)
Toluene-d8	101	(85 - 115)
	101	(85 - 115)
4-Bromofluorobenzene	101	(85 - 120)
	104	(85 - 120)
Dibromofluoromethane	97	(59 - 138)
	94	(59 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD
Prep Date.....: 02/26/10 **Analysis Date..:** 02/26/10
Prep Batch #...: 0060098
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	50	57	ug/kg	113		SW846 8260B
	50	56	ug/kg	111	1.9	SW846 8260B
Trichloroethene	50	51	ug/kg	102		SW846 8260B
	50	50	ug/kg	101	1.6	SW846 8260B
Benzene	50	51	ug/kg	102		SW846 8260B
	50	50	ug/kg	100	2.2	SW846 8260B
Toluene	50	52	ug/kg	105		SW846 8260B
	50	53	ug/kg	107	1.5	SW846 8260B
Chlorobenzene	50	51	ug/kg	101		SW846 8260B
	50	51	ug/kg	102	1.3	SW846 8260B
Acetone	50	62	ug/kg	125		SW846 8260B
	50	61	ug/kg	121	2.9	SW846 8260B
Bromodichloromethane	50	53	ug/kg	106		SW846 8260B
	50	51	ug/kg	102	3.8	SW846 8260B
Bromoform	50	55	ug/kg	110		SW846 8260B
	50	52	ug/kg	105	4.9	SW846 8260B
Bromomethane	50	51	ug/kg	102		SW846 8260B
	50	51	ug/kg	102	0.20	SW846 8260B
2-Butanone	50	47	ug/kg	93		SW846 8260B
	50	43	ug/kg	87	7.2	SW846 8260B
Bromochloromethane	50	52	ug/kg	104		SW846 8260B
	50	50	ug/kg	100	3.4	SW846 8260B
Carbon disulfide	50	55	ug/kg	109		SW846 8260B
	50	55	ug/kg	109	0.040	SW846 8260B
Carbon tetrachloride	50	67	ug/kg	134		SW846 8260B
	50	65	ug/kg	131	2.7	SW846 8260B
Chloroethane	50	47	ug/kg	94		SW846 8260B
	50	47	ug/kg	94	0.15	SW846 8260B
Chloroform	50	52	ug/kg	104		SW846 8260B
	50	50	ug/kg	101	3.6	SW846 8260B
Chloromethane	50	41	ug/kg	81		SW846 8260B
	50	41	ug/kg	83	1.6	SW846 8260B
1,2-Dibromoethane	50	52	ug/kg	103		SW846 8260B
	50	51	ug/kg	102	1.3	SW846 8260B
1,1-Dichloroethane	50	54	ug/kg	108		SW846 8260B
	50	53	ug/kg	107	1.2	SW846 8260B
1,2-Dichloroethane	50	51	ug/kg	103		SW846 8260B
	50	50	ug/kg	99	3.8	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2-Dichloropropane	50	50	ug/kg	100		SW846 8260B
	50	49	ug/kg	99	0.86	SW846 8260B
cis-1,3-Dichloropropene	50	50	ug/kg	99		SW846 8260B
	50	48	ug/kg	95	4.2	SW846 8260B
trans-1,3-Dichloropropene	50	50	ug/kg	101		SW846 8260B
	50	50	ug/kg	100	0.92	SW846 8260B
Ethylbenzene	50	55	ug/kg	110		SW846 8260B
	50	55	ug/kg	110	0.21	SW846 8260B
2-Hexanone	50	52	ug/kg	104		SW846 8260B
	50	48	ug/kg	95	8.3	SW846 8260B
Methylene chloride	50	52	ug/kg	105		SW846 8260B
	50	52	ug/kg	104	0.86	SW846 8260B
4-Methyl-2-pentanone	50	51	ug/kg	101		SW846 8260B
	50	46	ug/kg	92	9.5	SW846 8260B
Styrene	50	56	ug/kg	111		SW846 8260B
	50	55	ug/kg	110	0.75	SW846 8260B
1,1,2,2-Tetrachloroethane	50	52	ug/kg	103		SW846 8260B
	50	50	ug/kg	99	3.6	SW846 8260B
Tetrachloroethene	50	52	ug/kg	104		SW846 8260B
	50	52	ug/kg	105	0.61	SW846 8260B
1,1,2-Trichloroethane	50	50	ug/kg	101		SW846 8260B
	50	49	ug/kg	98	2.9	SW846 8260B
1,1,1-Trichloroethane	50	58	ug/kg	115		SW846 8260B
	50	57	ug/kg	114	0.48	SW846 8260B
Xylenes (total)	150	170	ug/kg	113		SW846 8260B
	150	170	ug/kg	114	0.060	SW846 8260B
Vinyl chloride	50	47	ug/kg	93		SW846 8260B
	50	47	ug/kg	94	0.36	SW846 8260B
1,2-Dibromo-3-chloro-propane	50	57	ug/kg	114		SW846 8260B
	50	52	ug/kg	103	10	SW846 8260B
1,3-Dichlorobenzene	50	51	ug/kg	103		SW846 8260B
	50	53	ug/kg	105	2.7	SW846 8260B
1,4-Dichlorobenzene	50	49	ug/kg	98		SW846 8260B
	50	50	ug/kg	99	1.4	SW846 8260B
1,2-Dichlorobenzene	50	51	ug/kg	102		SW846 8260B
	50	52	ug/kg	103	1.3	SW846 8260B
Dichlorodifluoromethane	50	35	ug/kg	69		SW846 8260B
	50	34	ug/kg	67	2.6	SW846 8260B
trans-1,2-Dichloroethene	50	56	ug/kg	111		SW846 8260B
	50	55	ug/kg	109	1.7	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
cis-1,2-Dichloroethene	50	53	ug/kg	106		SW846 8260B
	50	52	ug/kg	104	1.5	SW846 8260B
Naphthalene	50	54	ug/kg	109		SW846 8260B
	50	52	ug/kg	103	5.6	SW846 8260B
1,1,1,2-Tetrachloroethane	50	53	ug/kg	107		SW846 8260B
	50	54	ug/kg	108	0.93	SW846 8260B
Trichlorofluoromethane	50	61	ug/kg	121		SW846 8260B
	50	61	ug/kg	122	0.22	SW846 8260B
o-Xylene	50	57	ug/kg	115		SW846 8260B
	50	58	ug/kg	115	0.36	SW846 8260B
m-Xylene & p-Xylene	100	110	ug/kg	113		SW846 8260B
	100	110	ug/kg	113	0.080	SW846 8260B
Isopropylbenzene	50	57	ug/kg	114		SW846 8260B
	50	57	ug/kg	115	0.23	SW846 8260B
1,1-Dichloropropene	50	55	ug/kg	110		SW846 8260B
	50	54	ug/kg	107	2.3	SW846 8260B
1,2,3-Trichlorobenzene	50	52	ug/kg	103		SW846 8260B
	50	52	ug/kg	104	1.0	SW846 8260B
1,2,3-Trichloropropane	50	55	ug/kg	111		SW846 8260B
	50	55	ug/kg	110	0.88	SW846 8260B
1,2,4-Trichloro-benzene	50	53	ug/kg	106		SW846 8260B
	50	56	ug/kg	111	4.2	SW846 8260B
2,2-Dichloropropane	50	55	ug/kg	110		SW846 8260B
	50	54	ug/kg	108	1.7	SW846 8260B
2-Chlorotoluene	50	56	ug/kg	112		SW846 8260B
	50	58	ug/kg	116	3.4	SW846 8260B
4-Chlorotoluene	50	55	ug/kg	109		SW846 8260B
	50	56	ug/kg	113	2.9	SW846 8260B
Bromobenzene	50	51	ug/kg	103		SW846 8260B
	50	53	ug/kg	105	2.2	SW846 8260B
Dibromomethane	50	51	ug/kg	102		SW846 8260B
	50	49	ug/kg	97	4.7	SW846 8260B
Hexachlorobutadiene	50	50	ug/kg	100		SW846 8260B
	50	52	ug/kg	104	4.0	SW846 8260B
n-Butylbenzene	50	55	ug/kg	110		SW846 8260B
	50	57	ug/kg	114	3.7	SW846 8260B
n-Propylbenzene	50	55	ug/kg	109		SW846 8260B
	50	57	ug/kg	115	4.7	SW846 8260B
p-Isopropyltoluene	50	55	ug/kg	110		SW846 8260B
	50	57	ug/kg	114	3.4	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6FR1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-098 LV6FR1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
sec-Butylbenzene	**50**	**55**	**ug/kg**	**110**		**SW846 8260B**
	50	**57**	**ug/kg**	**113**	**2.8**	**SW846 8260B**
tert-Butylbenzene	**50**	**55**	**ug/kg**	**111**		**SW846 8260B**
	50	**58**	**ug/kg**	**115**	**3.8**	**SW846 8260B**
1,2,4-Trimethylbenzene	**50**	**56**	**ug/kg**	**113**		**SW846 8260B**
	50	**58**	**ug/kg**	**117**	**3.4**	**SW846 8260B**
1,3,5-Trimethylbenzene	**50**	**55**	**ug/kg**	**111**		**SW846 8260B**
	50	**57**	**ug/kg**	**114**	**3.4**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	96	(61 - 130)
	90	(61 - 130)
Toluene-d8	101	(85 - 115)
	101	(85 - 115)
4-Bromofluorobenzene	101	(85 - 120)
	104	(85 - 120)
Dibromofluoromethane	97	(59 - 138)
	94	(59 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Lab Smp Id: CHECK
Inj Date : 26-FEB-2010 12:36
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECK
Misc Info : R00226A,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 5 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1286060	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	949703	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	535712	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	341945	241.339	48.268
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	349141	240.346	48.069
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1301452	252.783	50.557
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	502337	252.891	50.578
8 Dichlorodifluoromethane	85	1.310	1.298	(0.199)	224779	172.807	34.561(R)
9 Chloromethane	50	1.452	1.452	(0.220)	382055	203.166	40.633
10 Vinyl Chloride	62	1.570	1.570	(0.238)	331269	233.550	46.710
11 Bromomethane	94	1.890	1.878	(0.286)	175842	253.910	50.782
12 Chloroethane	64	2.008	1.996	(0.304)	197513	236.126	47.225
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	414848	303.696	60.739
15 Acrolein	56	2.730	2.730	(0.414)	218882	1354.16	270.83(R)
16 Acetone	43	2.931	2.931	(0.444)	143374	311.636	62.327
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	348236	283.410	56.682
18 Freon-113	151	2.895	2.896	(0.439)	320099	324.377	64.875(R)
19 Iodomethane	142	3.026	3.026	(0.459)	594017	283.642	56.728
20 Carbon Disulfide	76	3.097	3.097	(0.469)	962348	273.440	54.688
21 Methylene Chloride	84	3.511	3.499	(0.532)	362158	261.673	52.334

22 Acetonitrile	41	3.298	3.286 (0.500)	131131	768.644	153.73
23 Acrylonitrile	53	3.889	3.890 (0.589)	393214	776.853	155.37

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	892083	279.441	55.888
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	396153	277.634	55.527
26	Hexane	86	4.398	4.387	(0.666)	95334	289.518	57.904
27	Vinyl acetate	43	4.694	4.694	(0.711)	694272	421.736	84.347(R)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	55795	380.388	76.078(AR)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	688940	269.827	53.965
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	598473	5144.56	1028.9
30	2-Butanone	43	5.380	5.380	(0.815)	153257	232.552	46.510
M 31	1,2-Dichloroethene (total)	96				783789	542.768	108.55
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	387636	265.134	53.027
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	275512	275.787	55.157
34	Bromochloromethane	128	5.605	5.605	(0.849)	184216	259.235	51.847
35	Chloroform	83	5.724	5.724	(0.867)	610320	260.773	52.154
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	103989	243.609	48.722
37	1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	486701	287.597	57.519
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	487609	274.767	54.953
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	494386	336.115	67.223(R)
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	445688	257.294	51.459
41	Benzene	78	6.303	6.303	(0.955)	1424072	256.184	51.237
42	Trichloroethene	130	6.966	6.966	(1.056)	392343	256.091	51.218
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	346565	248.861	49.772
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.274	7.274	(1.102)	181140	255.419	51.084
46	Bromodichloromethane	83	7.439	7.439	(1.127)	380658	264.792	52.958
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	141721	220.365	44.073
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	438087	247.775	49.555
49	4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	290842	253.595	50.719
50	Toluene	91	8.137	8.138	(0.872)	1471053	262.251	52.450
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	371153	251.768	50.354
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	251429	251.267	50.253
54	1,3-Dichloropropane	76	8.634	8.635	(0.925)	430696	256.908	51.382
55	Tetrachloroethene	164	8.623	8.623	(0.924)	307613	259.756	51.951
56	2-Hexanone	43	8.717	8.717	(0.934)	204954	259.394	51.879
57	Dibromochloromethane	129	8.836	8.836	(0.947)	270946	259.402	51.880
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	249168	257.903	51.580
59	Chlorobenzene	112	9.356	9.356	(1.003)	974807	252.831	50.566
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	326624	267.107	53.421
61	Ethylbenzene	106	9.451	9.451	(1.013)	547702	275.609	55.122
62	m + p-Xylene	106	9.557	9.557	(1.024)	1356126	564.069	112.81
M 63	Xylenes (total)	106				2005757	850.843	170.17
64	Xylene-o	106	9.889	9.889	(1.060)	649631	286.775	57.355
65	Styrene	104	9.901	9.901	(1.061)	1001340	278.085	55.617
66	Bromoform	173	10.054	10.054	(1.077)	173841	274.897	54.979
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1736422	285.616	57.123
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	338907	257.898	51.580
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	215211	527.843	105.57
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	105660	277.446	55.489
71	Bromobenzene	156	10.457	10.457	(0.925)	405505	257.087	51.417
72	n-Propylbenzene	120	10.551	10.551	(0.933)	501206	273.295	54.659
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	417132	279.579	55.916
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1404768	276.569	55.314

75	4-Chlorotoluene	126	10.717	10.717 (0.948)	431061	273.625	54.725
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1303478	277.146	55.429

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1463020	282.184	56.437
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1864638	275.677	55.135
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1584363	275.608	55.122
80	1,3-Dichlorobenzene	146	11.249	11.250	(0.995)	768494	256.616	51.323
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	777928	244.861	48.972
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1374435	275.547	55.109
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	714407	254.795	50.959
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	64744	285.483	57.096
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	482607	265.980	53.196
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	291659	250.756	50.151
87	Naphthalene	128	13.178	13.178	(1.165)	1137873	272.487	54.497
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	460330	257.551	51.510
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	7729	14.5727	2.914
89	Ethyl Ether	59	2.600	2.600	(0.394)	285772	265.057	53.011
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.741	(0.719)	308717	270.323	54.064
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.487	5.487	(0.831)	4965	3.71898	0.7438
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.303	6.292	(0.955)	476035	11995.6	2399.1(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	117254	394.722	78.944(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	777234	257.419	51.484
143	Methyl Acetate	43	3.392	3.393	(0.514)	269559	215.664	43.133
144	Methylcyclohexane	83	7.143	7.144	(1.082)	715850	277.297	55.459
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1447692	285.780	57.156(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148216.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

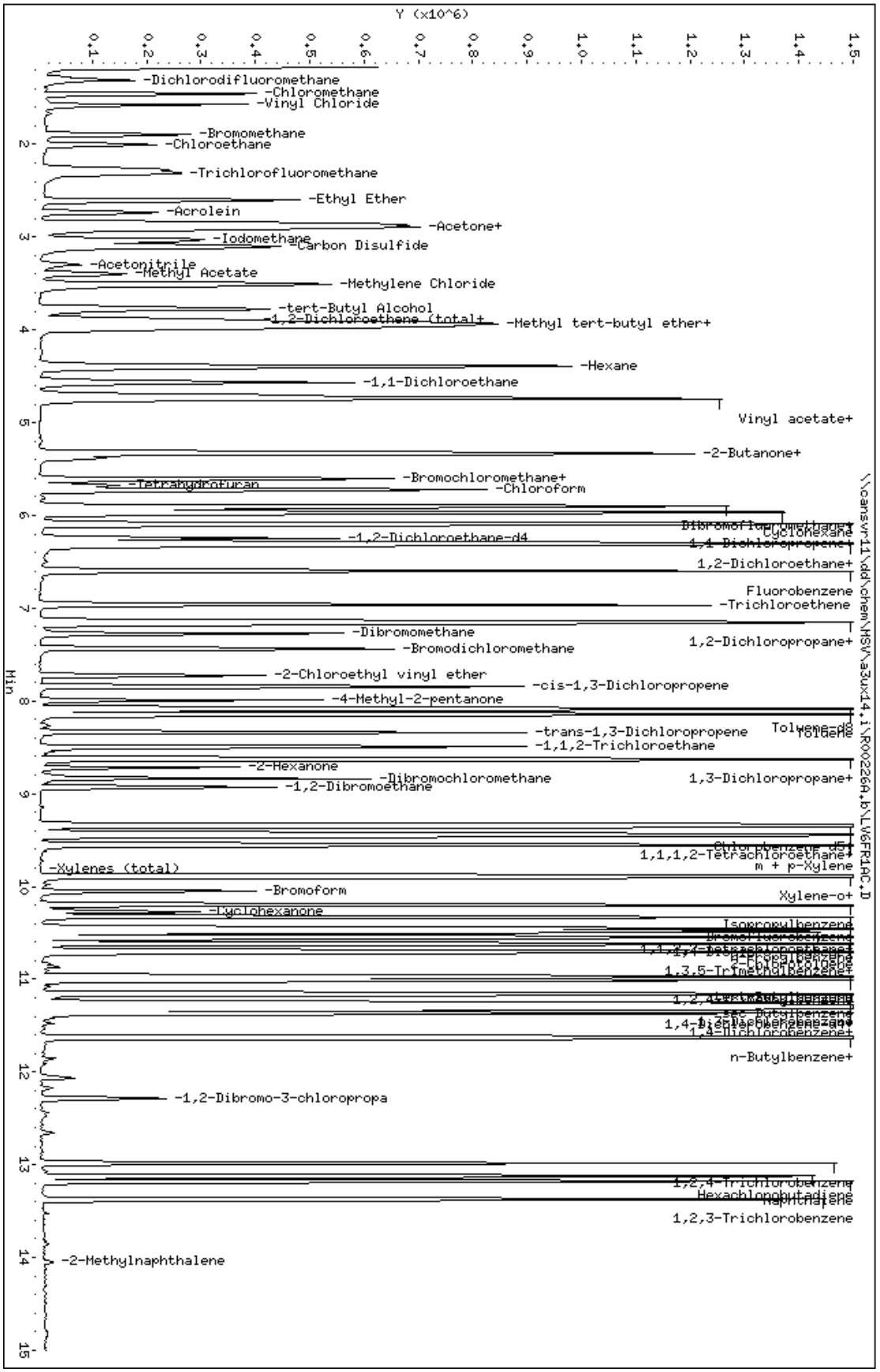
Instrument ID: a3ux14.i
Lab File ID: 148216.D
Lab Smp Id: CHECK
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1286060	-1.98
2 Chlorobenzene-d5	965181	482591	1930362	949703	-1.60
3 1,4-Dichlorobenze	531218	265609	1062436	535712	0.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
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1.3
1.4
1.5
Min
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12
13
14
15
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total+
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
Vinyl acetate+
-2-Butanone+
-Bromochloromethane+
-Tetrahydrofuran
-Chloroform
-1,2-Dichloroethane-d4
Cyclohexane
1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
Toluene-d8
Toluene
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
1,3-Dichloropropane+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Xylenes (total)
-Bromoform
Xylene-o+
-Cyclohexanone
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
-2-Methylnaphthalene
\\cansvr11\dd\chem\MSV\a3ux14,i\R00226A.b\LV6FR1AC.D
Data File: \\cansvr11\dd\chem\MSV\a3ux14,i\R00226A.b\LV6FR1AC.D
Date : 26-FEB-2010 12:36
Client ID:
Sample Info: CHECK
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14,i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Lab Smp Id: CHECKDUP
Inj Date : 26-FEB-2010 12:57
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP
Misc Info : R00226A,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 6 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1347350	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	961680	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	524167	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	349413	235.392	47.078
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	342364	224.960	44.992
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1315441	252.318	50.464
$ 7 Bromofluorobenzene	95	10.327	10.327	(0.913)	504450	259.548	51.910
8 Dichlorodifluoromethane	85	1.310	1.298	(0.199)	229456	168.378	33.676(R)
9 Chloromethane	50	1.452	1.452	(0.220)	406749	206.459	41.292
10 Vinyl Chloride	62	1.570	1.570	(0.238)	348338	234.412	46.882
11 Bromomethane	94	1.890	1.878	(0.286)	184602	254.434	50.887
12 Chloroethane	64	2.008	1.996	(0.304)	206597	235.751	47.150
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	435584	304.371	60.874
15 Acrolein	56	2.730	2.730	(0.414)	203841	1203.74	240.75(R)
16 Acetone	43	2.931	2.931	(0.444)	146619	302.590	60.518
17 1,1-Dichloroethene	96	2.860	2.848	(0.433)	357920	278.041	55.608
18 Freon-113	151	2.895	2.896	(0.439)	325097	314.456	62.891(R)
19 Iodomethane	142	3.026	3.026	(0.459)	614555	280.100	56.020
20 Carbon Disulfide	76	3.097	3.097	(0.469)	1007767	273.320	54.664
21 Methylene Chloride	84	3.511	3.499	(0.532)	376413	259.418	51.884

22 Acetonitrile	41	3.298	3.286 (0.500)	126258	706.414	141.28
23 Acrylonitrile	53	3.889	3.890 (0.589)	375004	707.174	141.43

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.972	3.972	(0.602)	890455	266.242	53.248
25	trans-1,2-Dichloroethene	96	3.925	3.925	(0.595)	407842	272.824	54.565
26	Hexane	86	4.398	4.387	(0.666)	98814	286.435	57.287
27	Vinyl acetate	43	4.694	4.694	(0.711)	650054	376.913	75.383(R)
154	Vinyl Acetate**2nd**	86	4.694	4.694	(0.711)	52462	341.395	68.279(AR)
28	1,1-Dichloroethane	63	4.564	4.564	(0.692)	712829	266.483	53.297
29	tert-Butyl Alcohol	59	3.771	3.771	(0.571)	566722	4650.02	930.00
30	2-Butanone	43	5.380	5.380	(0.815)	149466	216.482	43.296
M 31	1,2-Dichloroethene (total)	96				807885	533.997	106.80
32	cis-1,2-dichloroethene	96	5.333	5.333	(0.808)	400043	261.174	52.235
33	2,2-Dichloropropane	77	5.321	5.321	(0.806)	283868	271.225	54.245
34	Bromochloromethane	128	5.605	5.605	(0.849)	186600	250.645	50.129
35	Chloroform	83	5.724	5.724	(0.867)	616805	251.555	50.311
36	Tetrahydrofuran	42	5.676	5.676	(0.860)	99878	223.335	44.667
37	1,1,1-Trichloroethane	97	5.913	5.901	(0.896)	507410	286.195	57.239
38	1,1-Dichloropropene	75	6.090	6.090	(0.923)	499265	268.538	53.708
39	Carbon Tetrachloride	117	6.090	6.090	(0.923)	503973	327.046	65.409(R)
40	1,2-Dichloroethane	62	6.327	6.327	(0.959)	449389	247.629	49.526
41	Benzene	78	6.303	6.303	(0.955)	1460044	250.707	50.141
42	Trichloroethene	130	6.966	6.966	(1.056)	404692	252.136	50.427
43	1,2-Dichloropropane	63	7.167	7.167	(1.086)	359965	246.725	49.345
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.274	7.274	(1.102)	180992	243.601	48.720
46	Bromodichloromethane	83	7.439	7.439	(1.127)	384020	254.979	50.996
47	2-Chloroethyl vinyl ether	63	7.723	7.723	(1.170)	134220	200.102	40.020
48	cis-1,3-Dichloropropene	75	7.842	7.842	(1.188)	440221	237.656	47.531
49	4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	267896	230.679	46.136
50	Toluene	91	8.137	8.138	(0.872)	1512712	266.319	53.264
51	trans-1,3-Dichloropropene	75	8.339	8.339	(0.894)	372391	249.462	49.892
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.492	8.493	(0.910)	247213	243.977	48.795
54	1,3-Dichloropropane	76	8.634	8.635	(0.925)	431839	254.382	50.876
55	Tetrachloroethene	164	8.623	8.623	(0.924)	313403	261.349	52.270
56	2-Hexanone	43	8.717	8.717	(0.934)	190968	238.683	47.736
57	Dibromochloromethane	129	8.836	8.836	(0.947)	272368	257.515	51.503
58	1,2-Dibromoethane	107	8.930	8.930	(0.957)	249092	254.613	50.922
59	Chlorobenzene	112	9.356	9.356	(1.003)	1000402	256.238	51.248
60	1,1,1,2-Tetrachloroethane	131	9.427	9.427	(1.010)	333848	269.614	53.923
61	Ethylbenzene	106	9.451	9.451	(1.013)	555818	276.209	55.242
62	m + p-Xylene	106	9.557	9.557	(1.024)	1372077	563.596	112.72
M 63	Xylenes (total)	106				2032284	851.409	170.28
64	Xylene-o	106	9.889	9.889	(1.060)	660207	287.814	57.563
65	Styrene	104	9.901	9.901	(1.061)	1006371	276.001	55.200
66	Bromoform	173	10.054	10.054	(1.077)	167650	261.805	52.361
67	Isopropylbenzene	105	10.196	10.196	(1.093)	1762386	286.277	57.255
68	1,1,2,2-Tetrachloroethane	83	10.445	10.445	(0.924)	319811	248.727	49.745
69	1,4-Dichloro-2-butene	53	10.492	10.492	(0.928)	204251	511.996	102.40
70	1,2,3-Trichloropropane	110	10.480	10.480	(0.927)	102472	275.001	55.000
71	Bromobenzene	156	10.457	10.457	(0.925)	405410	262.688	52.538
72	n-Propylbenzene	120	10.551	10.551	(0.933)	514246	286.582	57.316
73	2-Chlorotoluene	126	10.622	10.622	(0.939)	422443	289.375	57.875
74	1,3,5-Trimethylbenzene	105	10.693	10.693	(0.946)	1421798	286.087	57.217

75	4-Chlorotoluene	126	10.717	10.717 (0.948)	434377	281.803	56.361
76	tert-Butylbenzene	119	10.977	10.977 (0.971)	1324524	287.824	57.565

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.013	11.013	(0.974)	1481592	292.060	58.412
78	sec-Butylbenzene	105	11.155	11.155	(0.986)	1877289	283.661	56.732
79	4-Isopropyltoluene	119	11.273	11.273	(0.997)	1604669	285.288	57.058
80	1,3-Dichlorobenzene	146	11.249	11.250	(0.995)	772354	263.585	52.717
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	771728	248.260	49.652
82	n-Butylbenzene	91	11.616	11.616	(1.027)	1395876	286.010	57.202
83	1,2-Dichlorobenzene	146	11.640	11.640	(1.029)	708261	258.166	51.633
84	1,2-Dibromo-3-chloropropane	157	12.291	12.291	(1.087)	57257	258.030	51.606
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	492708	277.528	55.506
86	Hexachlorobutadiene	225	13.131	13.131	(1.161)	297093	261.054	52.211
87	Naphthalene	128	13.178	13.178	(1.165)	1052360	257.560	51.512
88	1,2,3-Trichlorobenzene	180	13.379	13.380	(1.183)	454996	260.174	52.035
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	4042	13.2197	2.644
89	Ethyl Ether	59	2.600	2.600	(0.394)	289056	255.907	51.181
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.741	4.741	(0.719)	315146	263.399	52.680
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.291	6.292	(0.953)	441682	10623.7	2124.7(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.267	10.267	(0.908)	113082	389.704	77.941(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	807575	255.301	51.060
143	Methyl Acetate	43	3.392	3.393	(0.514)	263209	201.004	40.201
144	Methylcyclohexane	83	7.143	7.144	(1.082)	734243	271.484	54.297
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	1449198	292.379	58.476(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148217.D
Report Date: 01-Mar-2010 10:19

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

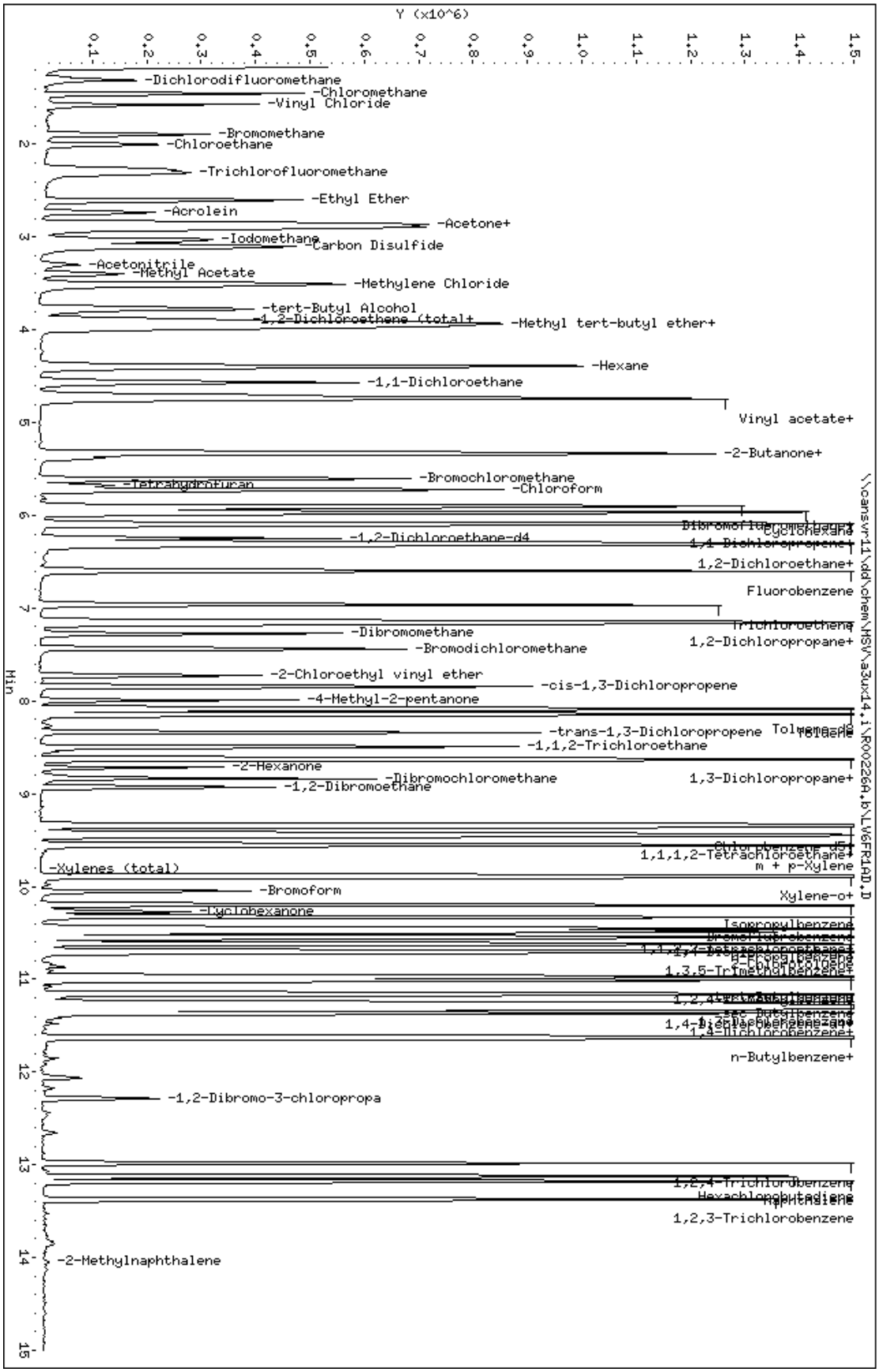
Instrument ID: a3ux14.i
Lab File ID: 148217.D
Lab Smp Id: CHECKDUP
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807,3

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1347350	2.69
2 Chlorobenzene-d5	965181	482591	1930362	961680	-0.36
3 1,4-Dichlorobenze	531218	265609	1062436	524167	-1.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total+
-Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Tetrahydrofuran
-Chloroform
-1,2-Dichloroethane-d4
Cyclohexane
1,2-Dichloroethane+
Fluorobenzene
Trichloroethene
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-trans-1,3-Dichloropropene
Toluene-d8
Toluene
-1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
1,3-Dichloropropane+
-1,2-Dibromoethane
Chlorobenzene-d5
1,1,1,2-Tetrachloroethane+
-Xylenes (total)
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
Bromofluorobenzene
1,1,2,2-Tetrachloroethane+
n-Propylbenzene
1,3,5-Trimethylbenzene+
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4
1,4-Dichlorobenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
-2-Methylnaphthalene
Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AD.D
Date : 26-FEB-2010 12:57
Client ID:
Sample Info: CHECKDUP
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AD.D

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6FR1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0C010000-098

Prep Date.....: 02/26/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 02/26/10 **Prep Batch #...:** 0060098
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**11 J**	**20**	**ug/kg**	**SW846 8260B**
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	**3.4 J**	**20**	**ug/kg**	**SW846 8260B**
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	**1.7 J**	**20**	**ug/kg**	**SW846 8260B**
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(61 - 130)
Toluene-d8	94	(85 - 115)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6FR1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4-Bromofluorobenzene	99	(85 - 120)		
Dibromofluoromethane	94	(59 - 138)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated: The analyte was positively identified; the quanitation is estimated.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Lab Smp Id: VBLK
Inj Date : 26-FEB-2010 13:41
Operator : 2807 Inst ID: a3ux14.i
Smp Info : VBLK,5G/5ML
Misc Info : R00226A,8260SUX14,,2807,3,,BLANK,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Meth Date : 26-Feb-2010 12:32 macenczaks Quant Type: ISTD
Cal Date : 14-JAN-2010 15:16 Cal File: 147364.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.599	6.599	(1.000)	1293874	250.000	
* 2 Chlorobenzene-d5	117	9.333	9.333	(1.000)	933757	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.309	11.309	(1.000)	498117	250.000	
$ 4 Dibromofluoromethane	113	5.901	5.901	(0.894)	335871	235.621	47.124
$ 5 1,2-Dichloroethane-d4	65	6.244	6.244	(0.946)	346032	236.767	47.353
$ 6 Toluene-d8	98	8.090	8.090	(0.867)	1193862	235.846	47.169
$ 7 Bromofluorobenzene	95	10.326	10.327	(0.913)	456257	247.029	49.406
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.931	2.931	(0.444)	45662	52.7984	10.560
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22 Acetonitrile	41	3.298	3.286 (0.500)	5121	29.8362	5.967
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	5.392	5.380	(0.817)	11309	17.0566	3.411
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	7.995	7.996	(0.857)	1992	1.76656	0.3533
	50 Toluene	91	8.137	8.138	(0.872)	6802	1.23333	0.2467
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	8.717	8.717	(0.934)	6475	8.33483	1.667
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	11.320	11.321	(1.001)	2991	1.01250	0.2025
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.989	12.989	(1.149)	2555	1.51442	0.3029
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	13.178	13.178	(1.165)	5784	1.48964	0.2979
88	1,2,3-Trichlorobenzene	180	13.368	13.380	(1.182)	1978	1.19020	0.2380
146	2-Methylnaphthalene	142	14.054	14.054	(1.243)	1152	12.1322	2.426
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.244	10.267	(0.906)	1461	49.4561	9.891
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.972	5.960	(0.905)	2641	0.86941	0.1739
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.368	11.368	(1.005)	6592	1.39950	0.2799(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\148219.D
Report Date: 26-Feb-2010 13:58

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 148219.D
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\8260SUX14.m
Misc Info: R00226A,8260SUX14,,2807,3,,BLANK,,0

Calibration Date: 26-FEB-2010
Calibration Time: 11:30
Level: LOW
Sample Type: SOIL

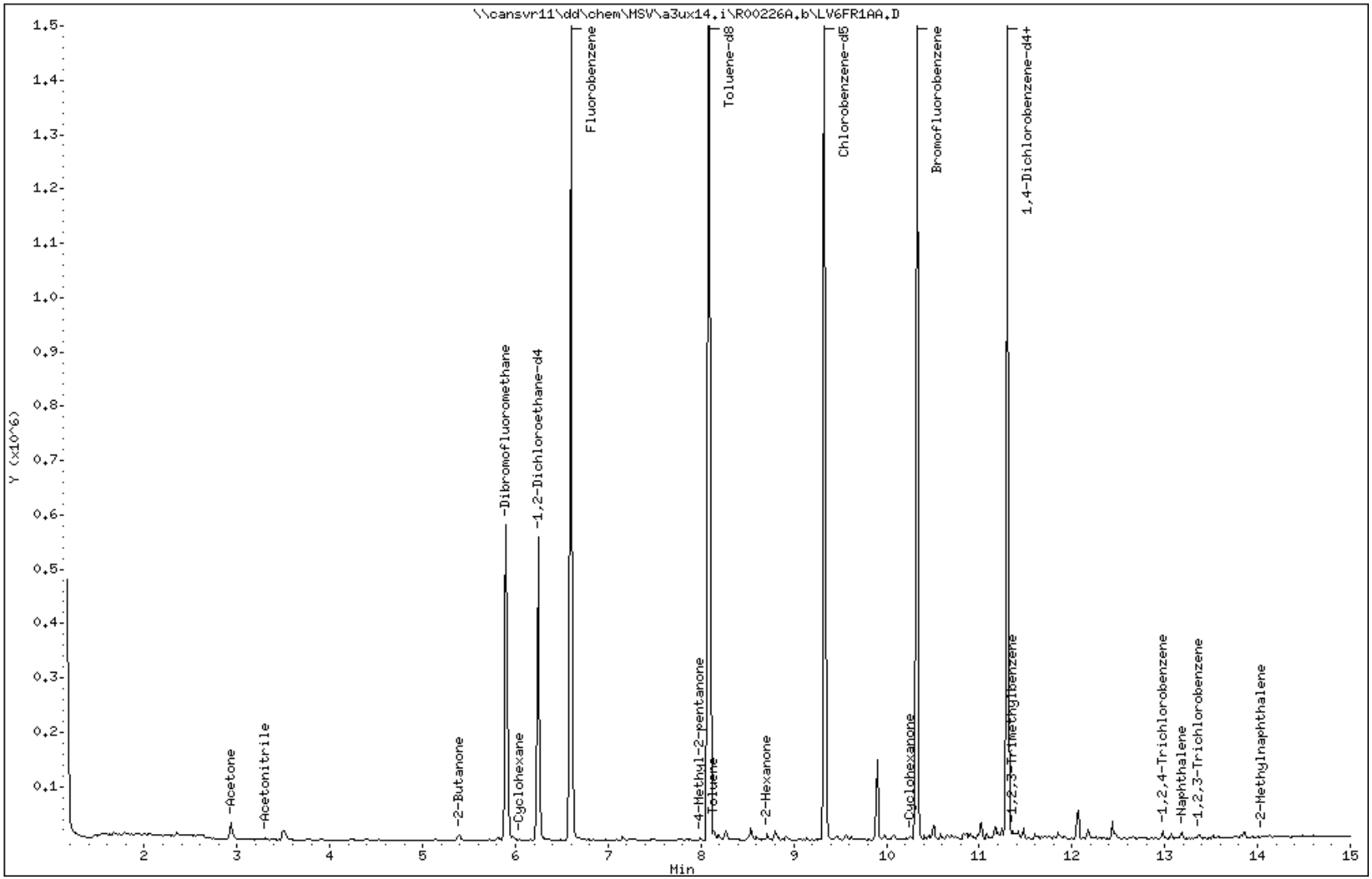
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1312011	656006	2624022	1293874	-1.38
2 Chlorobenzene-d5	965181	482591	1930362	933757	-3.26
3 1,4-Dichlorobenze	531218	265609	1062436	498117	-6.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.60	6.10	7.10	6.60	-0.00
2 Chlorobenzene-d5	9.33	8.83	9.83	9.33	-0.00
3 1,4-Dichlorobenze	11.31	10.81	11.81	11.31	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D
Date : 26-FEB-2010 13:41
Client ID:
Sample Info: VBLK,5G/5ML
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

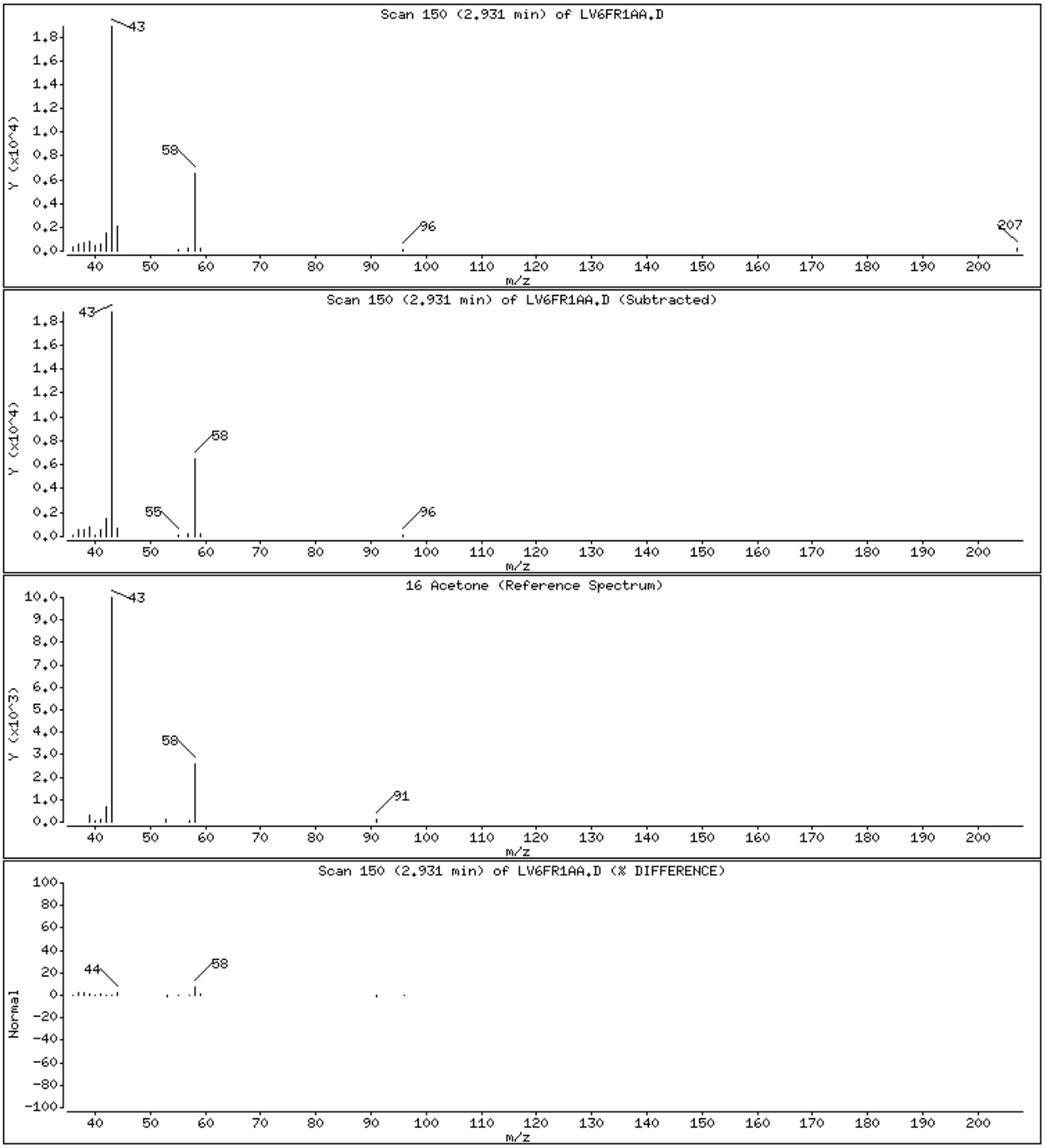
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 10.560 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

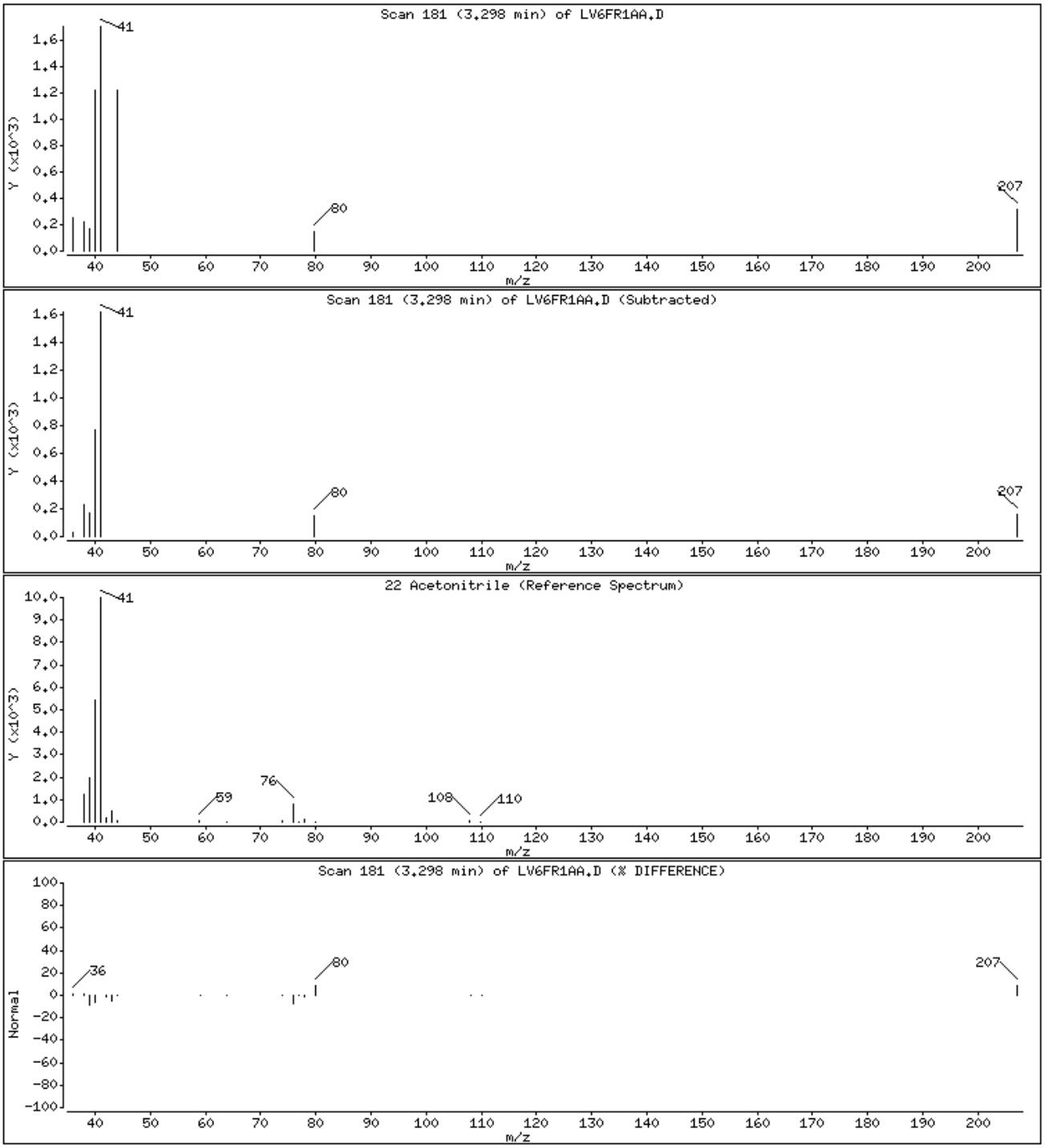
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

22 Acetonitrile Concentration: 5.967 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

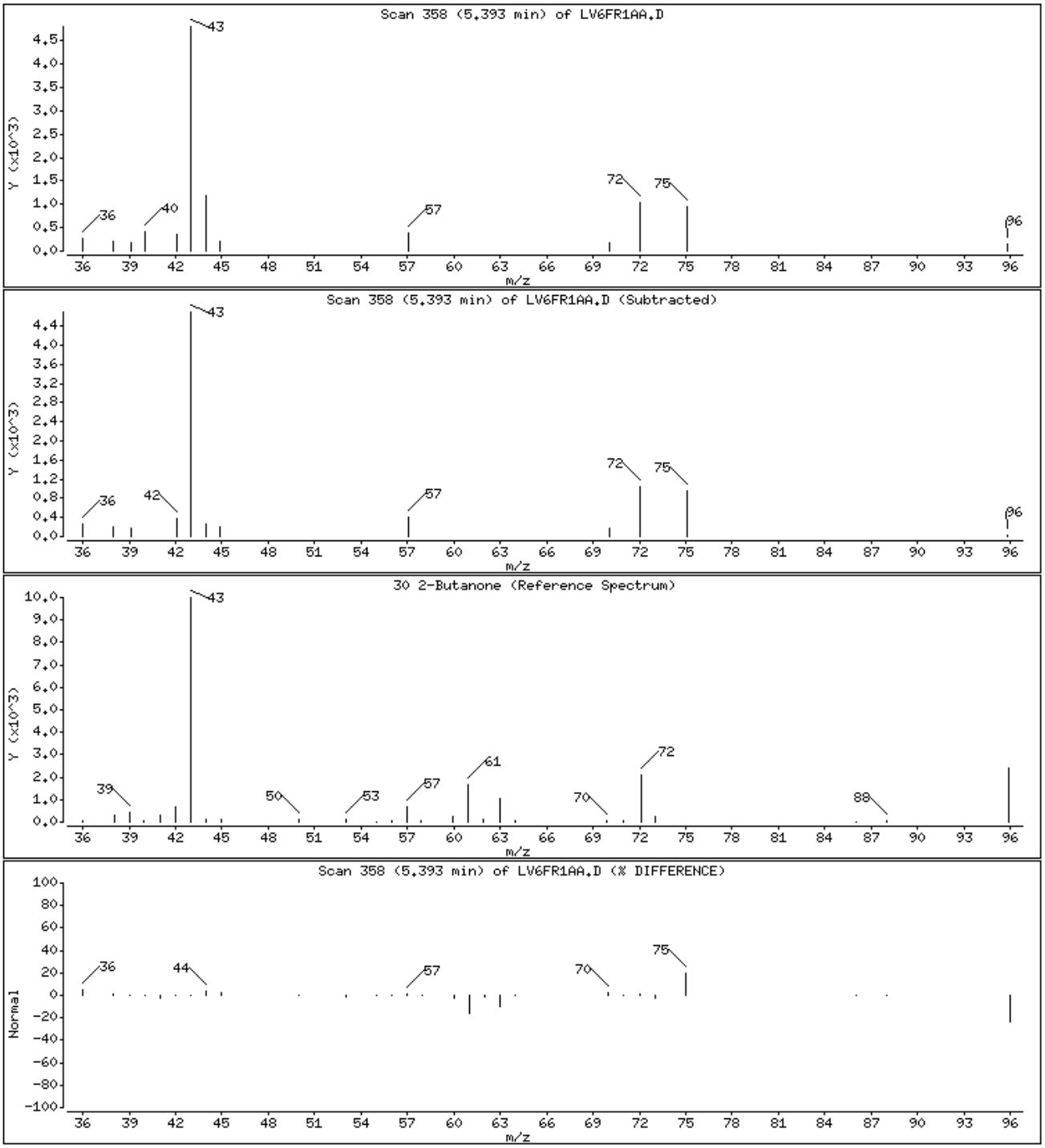
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

30 2-Butanone Concentration: 3.411 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

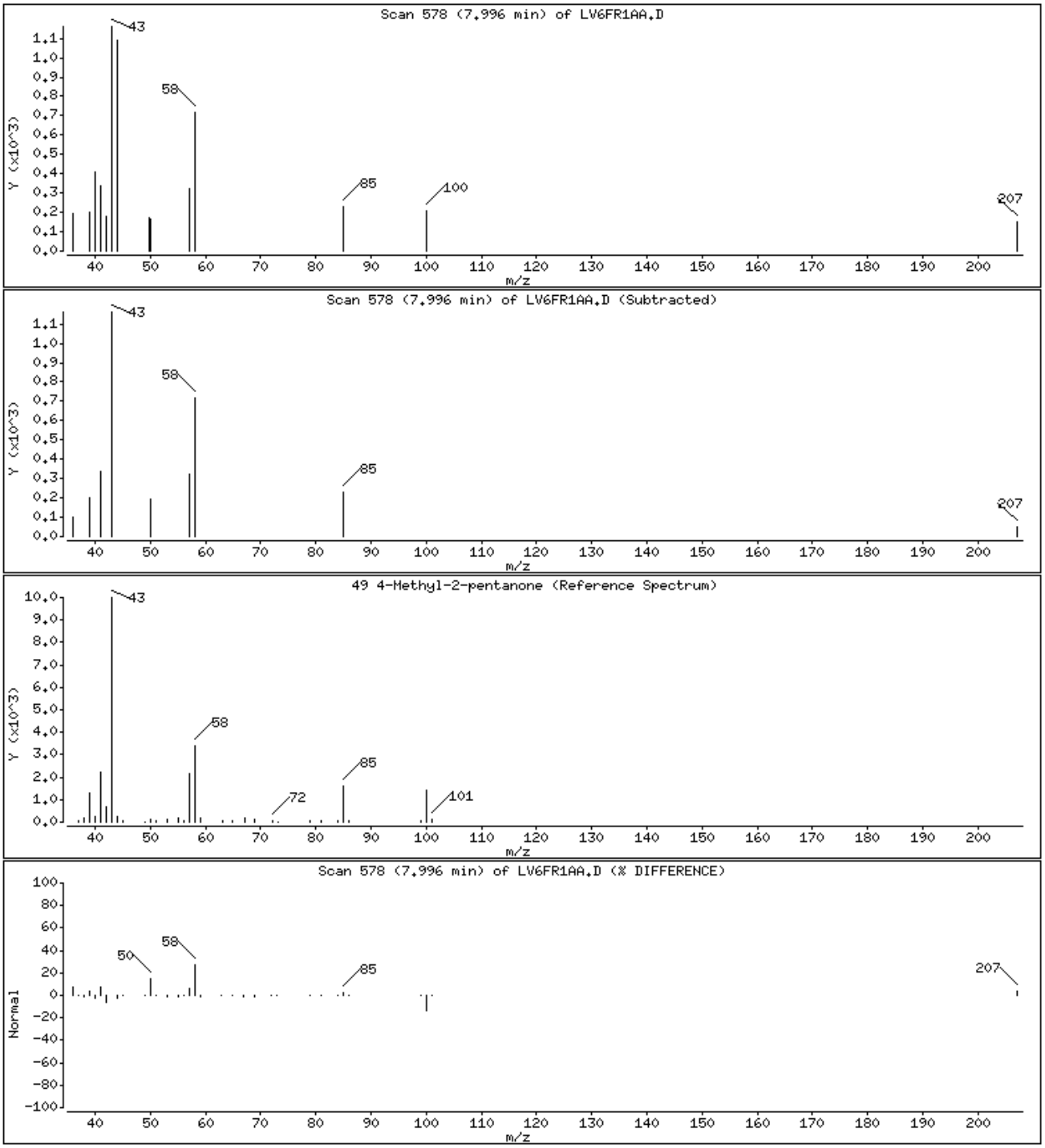
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

49 4-Methyl-2-pentanone Concentration: 0.3533 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

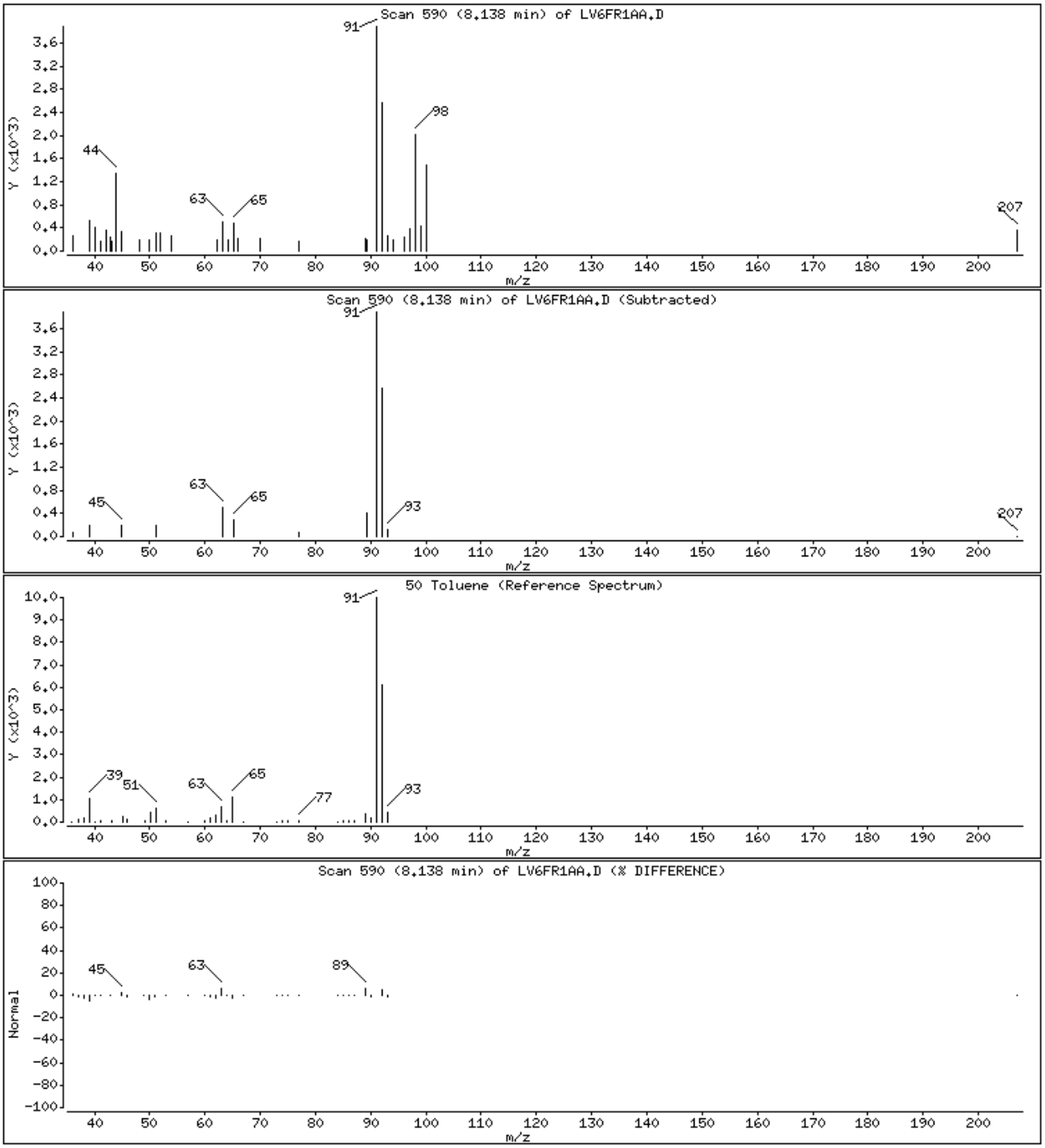
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

50 Toluene Concentration: 0.2467 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

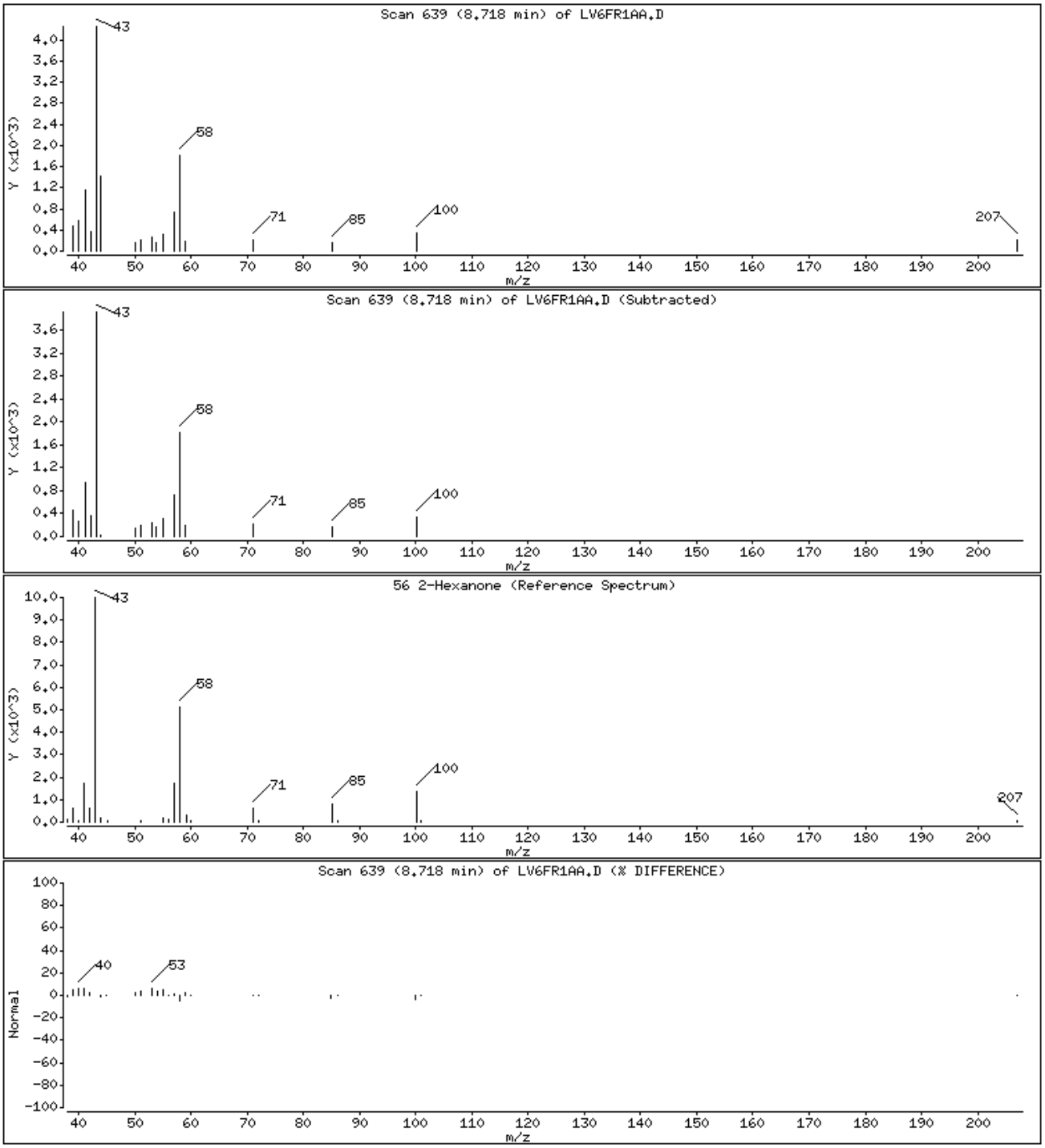
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

56 2-Hexanone Concentration: 1.667 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

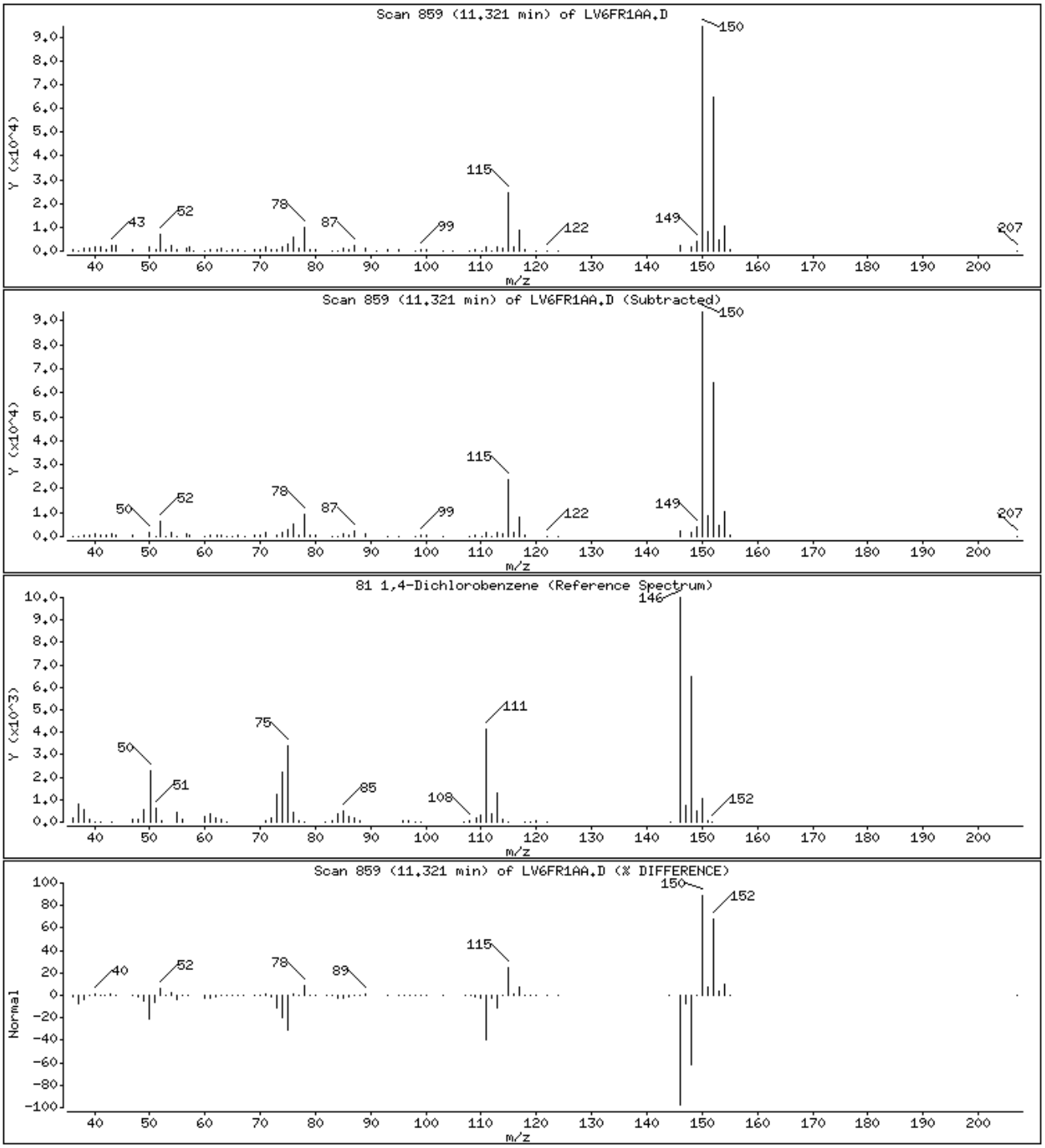
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

81 1,4-Dichlorobenzene Concentration: 0.2025 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

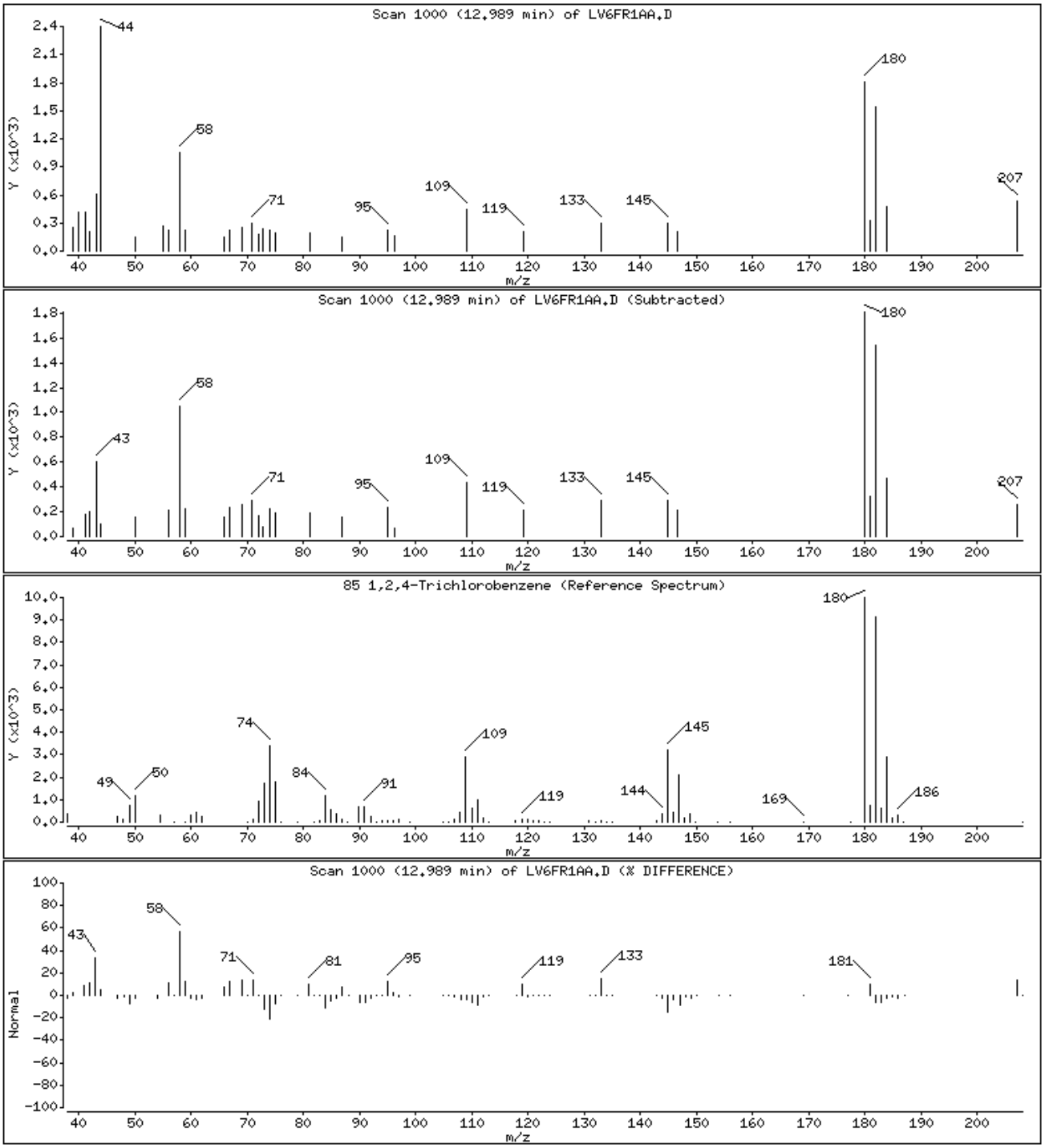
Operator: 2807

Column phase: DB624

Column diameter: 0.18

85 1,2,4-Trichlorobenzene

Concentration: 0.3029 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

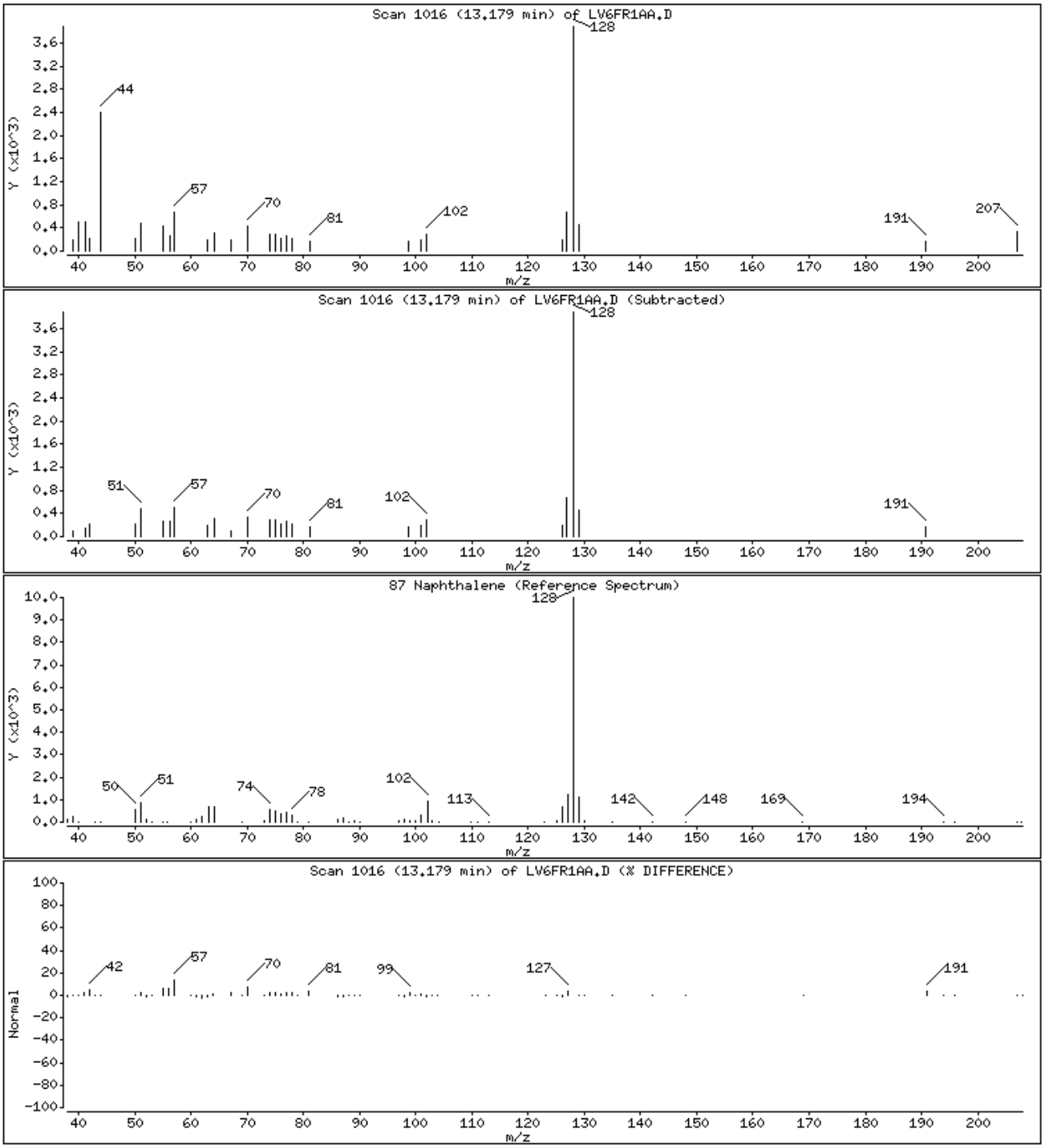
Operator: 2807

Column phase: DB624

Column diameter: 0.18

87 Naphthalene

Concentration: 0.2979 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

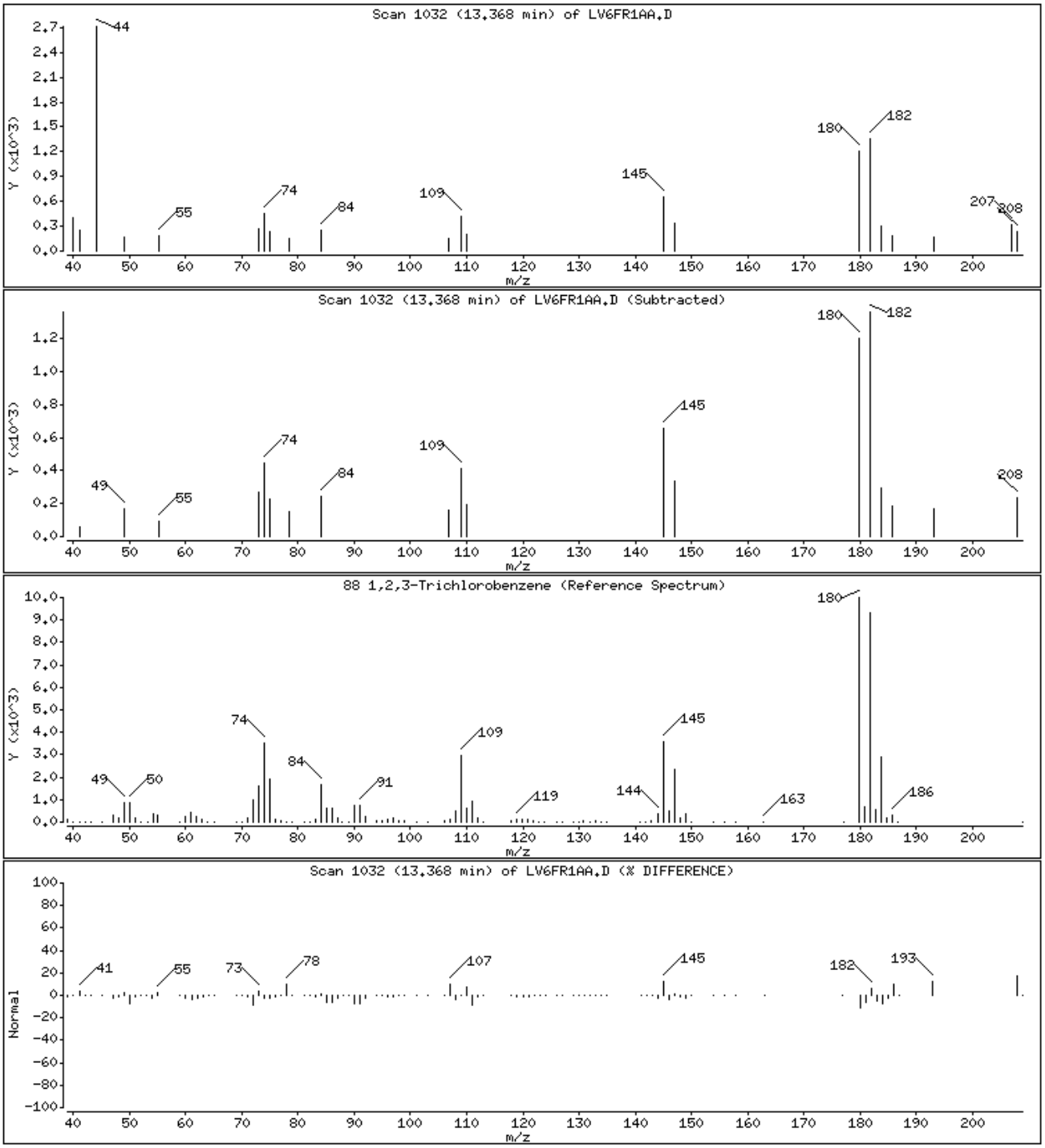
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

88 1,2,3-Trichlorobenzene Concentration: 0.2380 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

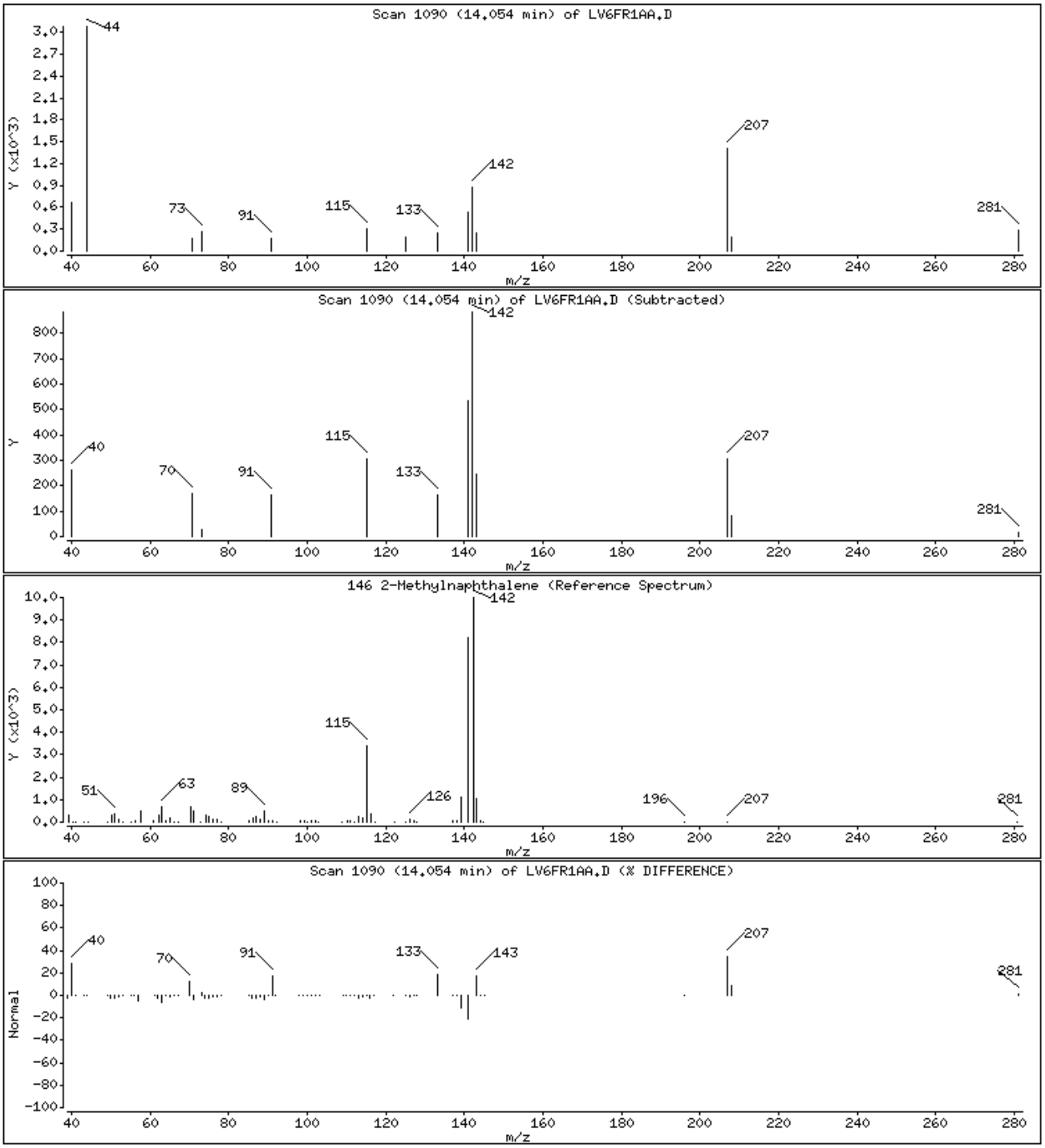
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

146 2-Methylnaphthalene Concentration: 2.426 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

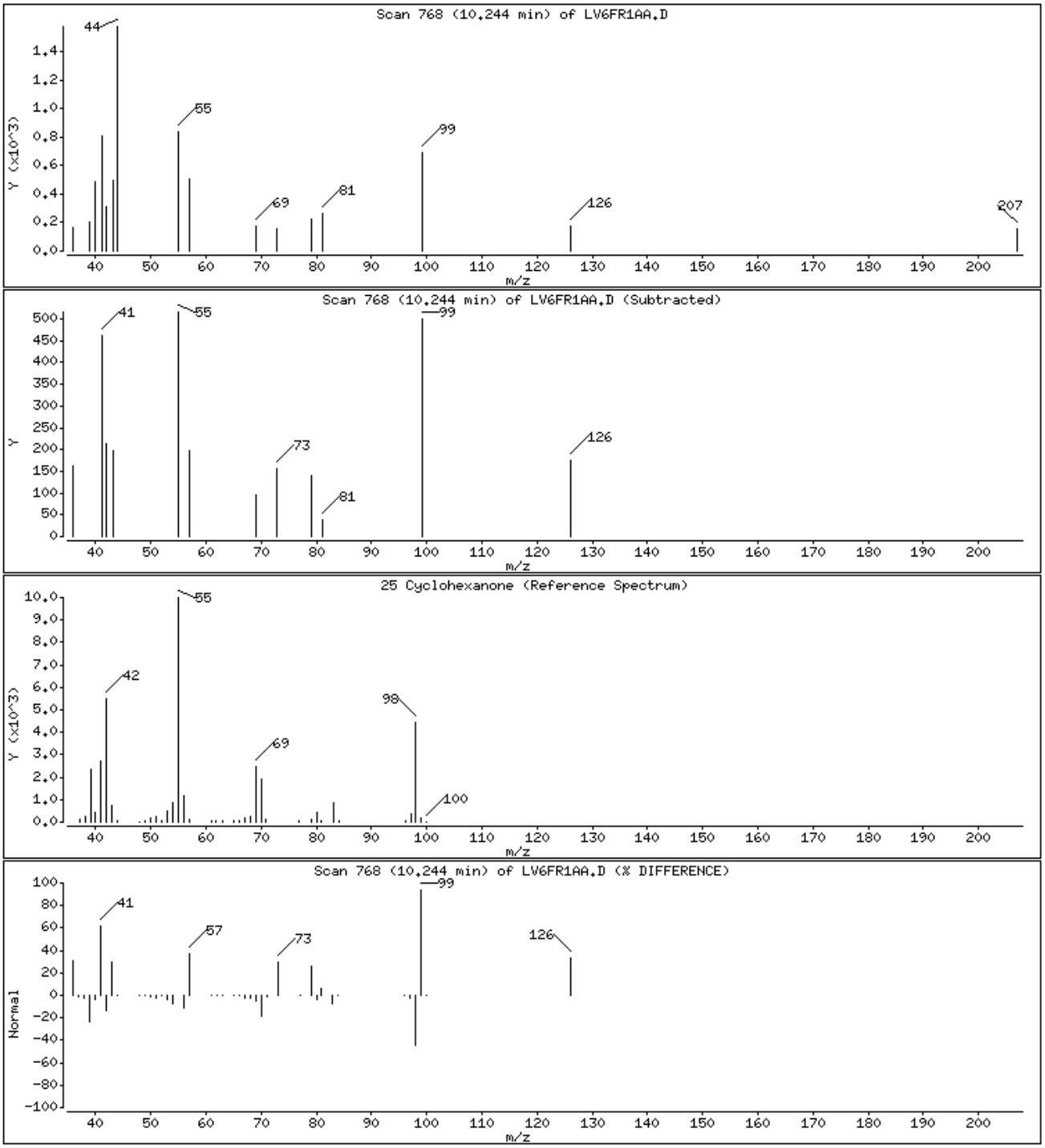
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

25 Cyclohexanone Concentration: 9.891 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

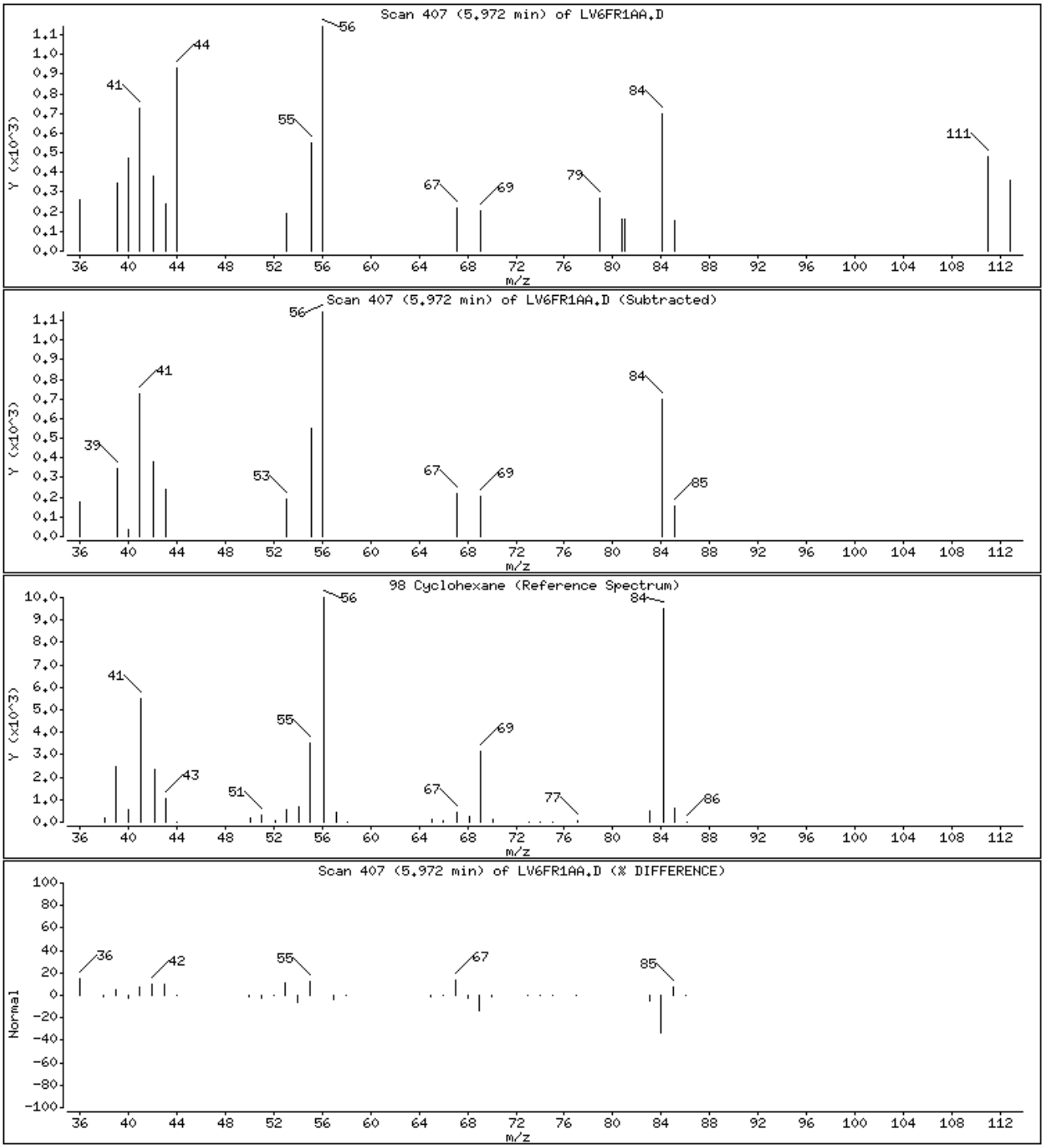
Operator: 2807

Column phase: DB624

Column diameter: 0.18

98 Cyclohexane

Concentration: 0.1739 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00226A.b\LV6FR1AA.D

Date : 26-FEB-2010 13:41

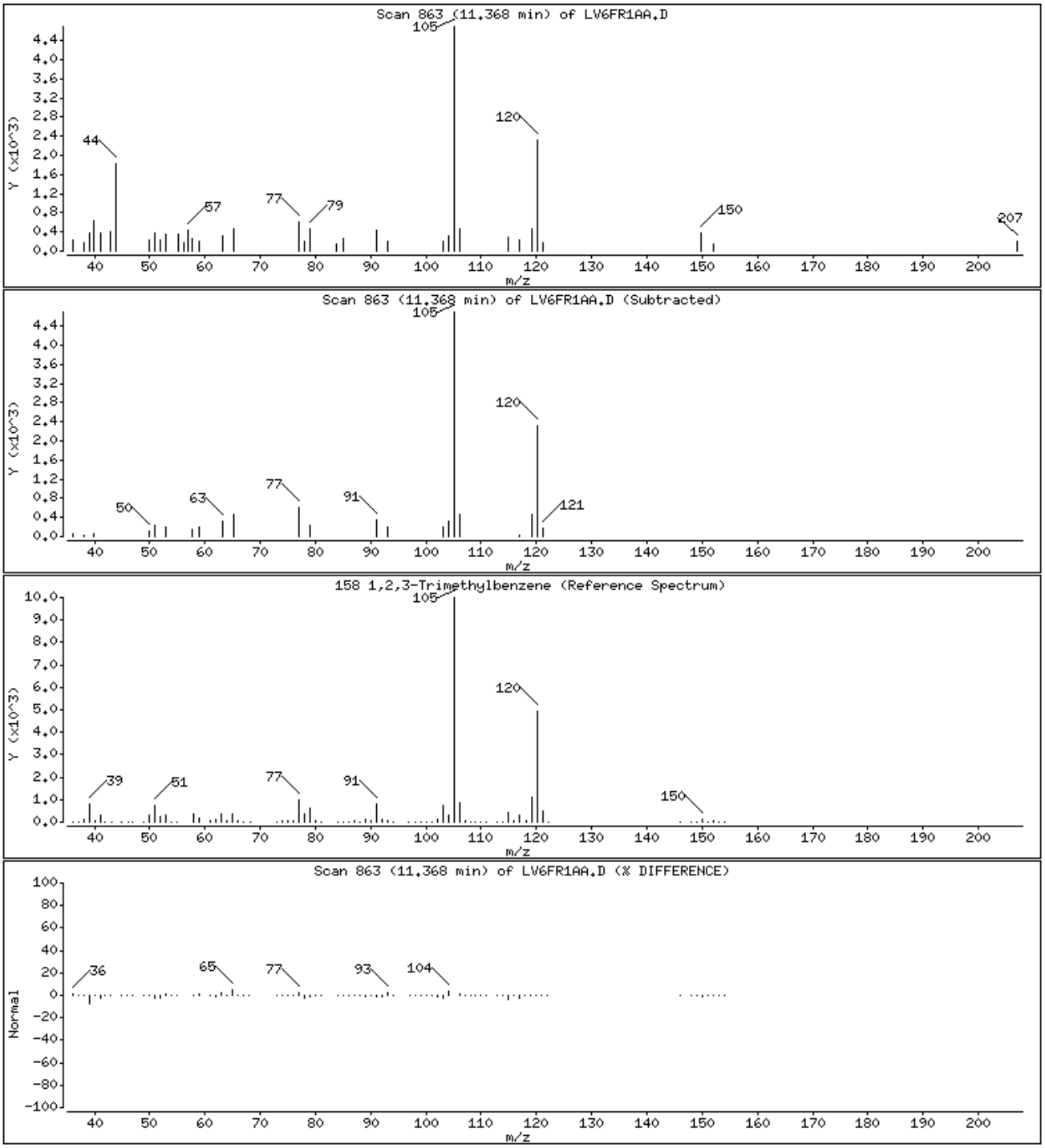
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

158 1,2,3-Trimethylbenzene Concentration: 0.2799 UG/KG



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MISCELLANEOUS DATA

UX14
Batch # _____

TestAmerica-North Canton
GC/MS VOA Run Log

Date: 1-14-10

Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB-624	100 C for 1.5 min	35 C for 4 min	Trap: 10
Length 20 M	to 160 C @ 20 C/min	to 45 C @ 18 C/min	Purge: 11
I.D. 0.18 mm	Hold 0.5 min	to 190 C @ 18 C/min	Desorb: 2 min @210 C
Flow Rate .6 ml/min		to 225 C @ 25 C/min hold 1min	Bake: 6 min @ 225 C
He Press: 1000PSI	IS # V8315 SS # V8316	BFB# V8004 EXP 3/10/10	Heated purge (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status
—	BFB		BFB14310	50 ng	Direct Inj.	(1000)	OK
1	Blank		147351	5 mL/5 mL			OK
2	8260 STD		147352	1000 ng	V8401, V8399 V8404, V8403		OK
3			147353	500 ng			OK
4			147354	250 ng		R00114	OK
5			147355	100 ng			OK
6			147356	50 ng			OK
7			147357	25 ng			OK
8			147358	10 ng			OK
9			147359	5 ng			OK
10	ICV		147360	5 mL/5 mL	250 ng	(Not needed) V8397 FAS	~~OK~~
11	App IX STD		147361	250 ng	V8402, V8372	R00108-A9	OK
12	Bromomethane STD		147362	1000 ng	V8405		OK
13			147363	500 ng			OK
14			147364	250 ng		R00114-BL	OK
15			147365	100 ng			OK
16			147366	50 ng			OK
17			147367	25 ng			OK
18			147368	10 ng			OK
19			147369	5 ng			OK
20	Check		147370	5 g/5 mL	250 ng	V8397 FAS	OK
21	Check Prep ICV		147371				OK
22	VBLK		147372				OK
23	MDL 8260 - 0.5 ug/kg		147373	5 g/5 mL		V8401, V8399, V8403	OK
24	- 1 ug/kg		147374				OK
25	- 2.5 ug/kg		147375				OK
~~26~~			~~147376~~				
27			147377				
28			147378				
29			147379	SAM 1-15-10			
30			~~147380~~				
31			147381				
32			147382				

Analyst: SAM

Level 2 review: K Date 1-18

Made pdf: _____

MLS / LLS

UX14 0060098-WA
Batch # 0060096

TestAmerica-North Canton
GC/MS VOA Run Log

3/1

Date: 2-26-10

Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB-624	100 C for 1.5 min	35 C for 4 min	Trap: 10
Length 20 M	to 160 C @ 20 C/min	to 45 C @ 18 C/min	Purge: 11
I.D. 0.18 mm	Hold 0.5 min	to 190 C @ 18 C/min	Desorb: 2 min @210 C
Flow Rate .6 ml/min		to 225 C @ 25 C/min hold 1min	Bake: 6 min @ 225 C
He Press: 2200PSI	IS # V8315	SS # V8316	BFB# V8004 Exp: 3/10/10

Heated purge: (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status	
—	BFB		BFB14339	50 ng	Direct Inj.	(1048)	OK	
1	Blank		148212	5 mL/5mL			Ok	
2	8260 STD		148213	250 ng	V8492, V8488 V8444	R00114/R00114-BR	Ok	
3	APPIX STD		148214	250 ng	V8493, V8498	R00108-AG	OK	
4	QCMRL		148215	5mL/5mL	25 ng	V8492 2 out low 1 below 60% V8488, V8499	(R)	
5	Check LV6FPIAC	6FPIAC	148216	5g/5mL	250 ng	LV6FRIAC V8503 76-078 FAS	Ok	
6	Check LV6FPIAD	6FPIAD	148217	⊥	⊥	LV6FRIAD ⊥ 68-179	OK	
7	QCMRL		148218	5mL/5mL	25 ng	V8503 V8504 V8499 3 out High	OK	
8	VBLK LV6FPIAA		148219	5g/5mL		LV6FRIAA	OK	
9	LVOMTIAC	4.48	148220	10mL/5mL	(0055147)	(ND) Prep 2/23 TIC-Butyl Acetate/Heptane (EIDi) Hexane 2/24	Ok	A0B230409
10	LVZAJIAC	6.45	148221	50mL/5mL	(0057120)	Prep 2/24 TIC-Butyl Acetate/Heptane 3/1	Ok	A0B240477
11	LVZAMIAC	6.40	148222	⊥	⊥	⊥ ⊥ ⊥	Ok	
12	LVO5QIAC		148223	5g/5mL		SS↓ (x2) 3/1	Ok	A0B230476
13	LVO5QIAC	(Dup)	148224	⊥		SS↓ (x2) ⊥		
14	LVTQ4IAC		148225	5g/5mL		(EIDi) 3/10	OK	A0B180429
15	LVVF6IAN		148226			⊥ 3/11	OK	A0B180514
16	LV1EQIAD		148227			IS↓↓(x2) SS↑↑(x2) 3/3		A0B230510
17	LV1ERIAD		148228			⊥	OK	
18	LV3JMIAC		148229			(EIDi) 3/4	OK	A0B250453
19	LV3KQIAC		148230			3/18	OK	A0B250463
20	LV3KRIAN SOP 2-24-10		148231				OK	
21	LV3LLIAC		148232			⊥	OK	
22	LVWW9IAC		148233			IS↓ 3/12		A0B190524
23	LVWXCIAN		148234				OK	
24	LVWX1IAC		148235			IS↓↓		
25	LVWX8IAC		148236			IS↓ SS↑		
26	LVWX8	MS	148237		250 ng	V8503 FAS		
27	LVWX8	MSD	148238		⊥	⊥ ⊥ ⊥		
28	LVO3VIAC		148239	⊥		⊥ 3/16	OK	A0B230467
29	QCMRL		148240	5mL/5mL	25 ng		OK	
30	QCMDL		148241	⊥	10 ng		OK	
31	Blank		148242				OK	
32	Blank		148243	⊥			OK	
33	LV1EQIAD		148244	5g/5mL		IS↓↓ (x2) SS↑ (x2) 3/3	OK	A0B230510

Analyst: SAM

Level 2 review: TS Date 3/1/10

Made pdf: ✓

MLS / LLS

UX14
Batch # _____

TestAmerica-North Canton
GC/MS VOA Run Log

Date: 2-26-10

Method: (8260B) 624

Column	BFB	Analysis	Purge & Trap
Type: DB-624	100 C for 1.5 min	35 C for 4 min	Trap: 10
Length 20 M	to 160 C @ 20 C/min	to 45 C @ 18 C/min	Purge: 11
I.D. 0.18 mm	Hold 0.5 min	to 190 C @ 18 C/min	Desorb: 2 min @210 C
Flow Rate .6 ml/min		to 225 C @ 25 C/min hold 1min	Bake: 6 min @ 225 C
He Press: 2200PSI	IS # V8315	SS # V8316 BFB# V8004 Exp: 3/10/10	Heated purge: (Yes) No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status
—	BFB		BFB14339	50 ng	Direct Inj.	(1048)	OK
1	Blank		148212	5 mL/5 mL			Ok
2	8260 STD		148213	25 ng	V8492, V8488 V8499	R00114/R00114-BR	Ok
3	APPIX STD		148214	250 ng	V8493, V8498	R00108-AG	Ok
4	QCMRL		148215	5 mL/5 mL	25 ng	V8492 2 out low 1 below 60% V8488, V8499	(K)
5	CHeck		148216	5g/5 mL	250 ng	V8503 FAS	Ok
6	CHarlyp		148217				OK
7	QCMRL		148218	5 mL/5 mL	25 ng	V8503, V8504 3 out High V8499	Ok
8	MBLa		148219	5g/5 mL			OK
9	LVOMTIAC	4.48	148220	100 mL/5 mL	(0055947)	(ND) Prep 2/23 TIC-Butyl Acetate/Hexane 2%	Ok
10	LV2AJIAC	6.45	148221	50 mL/5 mL	(0057120)	Prep 2/24 3/1	Ok
11	LV2AMIAC	6.40	148222			3/1	Ok
12	LVOSQIAC		148223	5g/5 mL		SSV (x2) 3/1	Ok
13	LVOSQIAC	(Dup)	148224			SSV (x2)	
14	LVTQ4IAC		148225	5g/5 mL			
15	LVVF6IAN		148226				
16	LVIEQIAD		148227				
17	LVIERIAD		148228				
18	LV3JMIAC		148229				
19	LV3KQIAC		148230				
20	LV3KRIAN	SOT 2-26-10	148231				
21	LV3LLIAC		148232				
22	LVWW9IAC		148233				
23	LVWXCIAN		148234				
24	LVWX1IAC		148235				
25	LVWX8IAC		148236				
26	LVWX8	MS	148237		250 ng	V8503 FAS	
27	LVWX8	MSD	148238				
28	LVO3VIAC		148239				
29	QCMRL		148240	5 mL/5 mL	25 ng		
30	QCMDL		148241		10 ng		
31	Blank		148242				
32	Blank		148243				

A08230409
A08230477
A08230476

Analyst: SAM
Level 2 review: TS Date 2/26/10

Made pdf: _____

Lot/SDG Number: **A0B250463**

Sample Control Chain of Custody - TAL North Canton
GC/MS Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0B250463	4	LV3KQ1AC	Volatile Organics, GC/MS (8260B)	02/26/10	Steve Macenczak
A0B250463	5	LV3KR1AN	Volatile Organics, GC/MS (8260B)	02/26/10	Steve Macenczak
A0B250463	19	LV3LL1AC	Volatile Organics, GC/MS (8260B)	02/26/10	Steve Macenczak

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GCMS SEMIVOLATILE DATA

TestAmerica
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QC SUMMARY DATA

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Cor

Lab Code: TALCAN SDG No:

Lot #: A0B250463

Extraction: XXA11QLWA

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	ATASB-008-5133-SO	65	72	68	56	66	85	00
02	ATASB-008-5134-SO	58	63	57	29 *	61	80	01
03	F15SS-036M-5427-SO	66 D	77 D	74 D	75 D	64 D	83 D	00
04	F15SS-035M-5428-SO	62 D	64 D	64 D	65 D	57 D	77 D	00
05	F15SS-035M-6121-FD	64 D	72 D	67 D	63 D	64 D	76 D	00
06	F15SS-037M-5429-SO	63	74	71	78	61	81	00
07	F15SS-038M-5430-SO	65 D	73 D	66 D	65 D	64 D	80 D	00
08	F16SS-026M-5431-SO	62 D	65 D	62 D	58 D	62 D	77 D	00
09	F16SS-027M-5432-SO	61 D	64 D	62 D	61 D	60 D	73 D	00
10	F16SS-028M-5433-SO	9.1*	11 *	9.6*	9.5*	9.3*	12 *	06
11	METHOD BLK. LV6AW1AA	57	68	62	27 *	63	87	01
12	LCS LV6AW1AC	70	81	74	64	74	92	00
13	F16SS-027M-5432-SO D	65 D	70 D	69 D	73 D	63 D	85 D	00
14	F16SS-027M-5432-SO S	65 D	63 D	62 D	64 D	58 D	80 D	00

SURROGATES		QC LIMITS
SRG01	= 2-Fluorobiphenyl	(45-105)
SRG02	= 2-Fluorophenol	(35-105)
SRG03	= Phenol-d5	(40-100)
SRG04	= 2,4,6-Tribromophenol	(35-125)
SRG05	= Nitrobenzene-d5	(35-100)
SRG06	= Terphenyl-d14	(30-125)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6AW1AC
BATCH: 0060040

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Acenaphthene	670	470	71	45- 110	
4-Chloro-3-methylphenol	670	530	79	45- 115	
2-Chlorophenol	670	500	75	45- 105	
1,4-Dichlorobenzene	670	490	74	35- 105	
2,4-Dinitrotoluene	670	550	82	50- 115	
4-Nitrophenol	670	470	70	15- 140	
N-Nitrosodi-n-propylamine	670	510	76	40- 115	
Pentachlorophenol	670	280	43	25- 120	
Phenol	670	510	77	40- 100	
Pyrene	670	530	80	45- 125	
1,2,4-Trichlorobenzene	670	490	74	45- 110	
bis(2-Ethylhexyl) phthala	670	580	87	45- 125	
Acenaphthylene	670	490	74	45- 105	
Anthracene	670	520	78	55- 105	
Benzo(a)anthracene	670	530	80	50- 110	
Benzo(b)fluoranthene	670	560	84	45- 115	
Benzo(k)fluoranthene	670	610	91	45- 125	
Benzo(ghi)perylene	670	580	87	40- 125	
Benzo(a)pyrene	670	490	74	50- 110	
bis(2-Chloroethoxy)methan	670	510	76	45- 110	
bis(2-Chloroethyl) ether	670	510	76	40- 105	
4-Bromophenyl phenyl ethe	670	530	80	45- 115	
Butyl benzyl phthalate	670	550	83	50- 125	
Carbazole	670	550	82	45- 115	
4-Chloroaniline	670	380	57	10- 95	
2-Chloronaphthalene	670	480	73	45- 105	
4-Chlorophenyl phenyl eth	670	520	78	45- 110	
Chrysene	670	540	82	55- 110	
Dibenzo(a,h)anthracene	670	600	90	40- 125	
Dibenzofuran	670	490	73	50- 105	
Di-n-butyl phthalate	670	560	85	55- 110	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6AW1AC
BATCH: 0060040

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,2-Dichlorobenzene	670	490	74	45- 95	
1,3-Dichlorobenzene	670	470	70	40- 100	
3,3'-Dichlorobenzidine	670	380	56	10- 130	
2,4-Dichlorophenol	670	520	78	45- 110	
Diethyl phthalate	670	520	78	50- 115	
2,4-Dimethylphenol	670	430	65	30- 105	
Dimethyl phthalate	670	510	76	50- 110	
4,6-Dinitro-2-methylpheno	670	440	67	30- 135	
2,4-Dinitrophenol	670	330	49	15- 130	
2,6-Dinitrotoluene	670	550	83	50- 110	
Di-n-octyl phthalate	670	580	86	40- 130	
Fluoranthene	670	560	83	55- 115	
Fluorene	670	490	73	50- 110	
Hexachlorobenzene	670	530	79	45- 120	
Hexachlorobutadiene	670	510	76	40- 115	
Hexachloroethane	670	470	70	35- 110	
Indeno(1,2,3-cd)pyrene	670	580	86	40- 120	
Isophorone	670	490	74	45- 110	
2-Methylnaphthalene	670	600	90	45- 105	
2-Methylphenol	670	520	77	40- 105	
Naphthalene	670	500	75	40- 105	
2-Nitroaniline	670	530	80	45- 120	
3-Nitroaniline	670	490	74	25- 110	
4-Nitroaniline	670	560	84	35- 115	
Nitrobenzene	670	510	76	40- 115	
2-Nitrophenol	670	530	79	40- 110	
N-Nitrosodiphenylamine	670	530	80	50- 115	
Phenanthrene	670	520	78	50- 110	
2,4,5-Trichlorophenol	670	520	79	50- 110	
2,4,6-Trichlorophenol	670	460	69	45- 110	
Benzyl alcohol	670	480	72	20- 125	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp.

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6AW1AC
BATCH: 0060040

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
bis(2-Chloroisopropyl) et	670	500	75	20 - 115	
N-Nitrosodimethylamine	670	540	82	20 - 115	
1,2-Diphenylhydrazine (as	670	520	78	1 - 175	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: F16SS-027M-5432-SO

Lot #: A0B250463 WO #: LV3LM1DX
BATCH: 0060040

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Acenaphthene	680	ND	510	75	45 - 110	DIL
4-Chloro-3-methylphenol	680	ND	540	80	45 - 115	DIL
2-Chlorophenol	680	ND	450	66	45 - 105	DIL
1,4-Dichlorobenzene	680	ND	390	58	35 - 105	DIL
2,4-Dinitrotoluene	680	ND	500	73	50 - 115	DIL
4-Nitrophenol	680	ND	510	76	15 - 140	DIL
N-Nitrosodi-n-propylamine	680	ND	420	62	40 - 115	DIL
Pentachlorophenol	680	ND	450	66	25 - 120	DIL
Phenol	680	ND	480	71	40 - 100	DIL
Pyrene	680	140	650	75	45 - 125	DIL
1,2,4-Trichlorobenzene	680	ND	450	66	45 - 110	DIL
bis(2-Ethylhexyl) phthala	680	96	650	82	45 - 125	DIL
Acenaphthylene	680	ND	510	76	45 - 105	DIL
Anthracene	680	ND	540	79	55 - 105	DIL
Benzo(a)anthracene	680	75	600	77	50 - 110	DIL
Benzo(b)fluoranthene	680	120	670	82	45 - 115	DIL
Benzo(k)fluoranthene	680	39	580	79	45 - 125	DIL
Benzo(ghi)perylene	680	54	620	83	40 - 125	DIL
Benzo(a)pyrene	680	70	540	69	50 - 110	DIL
bis(2-Chloroethoxy)methan	680	ND	490	72	45 - 110	DIL
bis(2-Chloroethyl) ether	680	ND	420	61	40 - 105	DIL
4-Bromophenyl phenyl ethe	680	ND	550	81	45 - 115	DIL
Butyl benzyl phthalate	680	ND	550	81	50 - 125	DIL
Carbazole	680	ND	530	79	45 - 115	DIL
4-Chloroaniline	680	ND	150	22	10 - 95	DIL
2-Chloronaphthalene	680	ND	500	74	45 - 105	DIL
4-Chlorophenyl phenyl eth	680	ND	530	78	45 - 110	DIL
Chrysene	680	86	630	80	55 - 110	DIL

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: F16SS-027M-5432-SO

Lot #: A0B250463 WO #: LV3LM1DX
BATCH: 0060040

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Dibenzo(a,h)anthracene	680	ND	590	86	40- 125	DIL
Dibenzofuran	680	ND	540	79	50- 105	DIL
Di-n-butyl phthalate	680	ND	560	83	55- 110	DIL
1,2-Dichlorobenzene	680	ND	400	59	45- 95	DIL
1,3-Dichlorobenzene	680	ND	380	56	40- 100	DIL
3,3'-Dichlorobenzidine	680	ND	0.0	0*	10- 130	DIL a
2,4-Dichlorophenol	680	ND	530	78	45- 110	DIL
Diethyl phthalate	680	ND	530	77	50- 115	DIL
2,4-Dimethylphenol	680	ND	460	68	30- 105	DIL
Dimethyl phthalate	680	ND	520	76	50- 110	DIL
4,6-Dinitro-2-methylpheno	680	ND	490	72	30- 135	DIL
2,4-Dinitrophenol	680	ND	700	103	15- 130	DIL
2,6-Dinitrotoluene	680	ND	530	78	50- 110	DIL
Di-n-octyl phthalate	680	ND	550	82	40- 130	DIL
Fluoranthene	680	190	730	80	55- 115	DIL
Fluorene	680	ND	520	76	50- 110	DIL
Hexachlorobenzene	680	ND	520	77	45- 120	DIL
Hexachlorobutadiene	680	ND	460	68	40- 115	DIL
Hexachloroethane	680	ND	390	57	35- 110	DIL
Indeno(1,2,3-cd)pyrene	680	43	610	83	40- 120	DIL
Isophorone	680	ND	450	67	45- 110	DIL
2-Methylnaphthalene	680	150	730	86	45- 105	DIL
2-Methylphenol	680	ND	470	69	40- 105	DIL
Naphthalene	680	88	520	64	40- 105	DIL
2-Nitroaniline	680	ND	510	75	45- 120	DIL
3-Nitroaniline	680	ND	270	39	25- 110	DIL
4-Nitroaniline	680	ND	330	48	35- 115	DIL
Nitrobenzene	680	ND	460	68	40- 115	DIL

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: F16SS-027M-5432-SO

Lot #: A0B250463 WO #: LV3LM1DX
BATCH: 0060040

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
2-Nitrophenol	680	ND	450	66	40 - 110	DIL
N-Nitrosodiphenylamine	680	ND	530	79	50 - 115	DIL
Phenanthrene	680	140	650	76	50 - 110	DIL
2,4,5-Trichlorophenol	680	ND	510	76	50 - 110	DIL
2,4,6-Trichlorophenol	680	ND	500	73	45 - 110	DIL
Benzyl alcohol	680	ND	440	65	20 - 125	DIL
bis(2-Chloroisopropyl) et	680	ND	410	60	20 - 115	DIL
N-Nitrosodimethylamine	680	ND	370	55	20 - 115	DIL
3-Methylphenol & 4-Methyl	0.0	ND		0*	40 - 105	DIL
1,2-Diphenylhydrazine (as	680	ND	520	76	1 - 175	DIL

NOTES(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 2 out of 66 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: F16SS-027M-5432-SO

Lot #: A0B250463 WO #: LV3LM1D0
BATCH: 0060040

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Acenaphthene	680	510	75	0.080	44	45- 110	DIL
4-Chloro-3-methylphenol	680	570	84	4.8	55	45- 115	DIL
2-Chlorophenol	680	480	70	6.1	54	45- 105	DIL
1,4-Dichlorobenzene	680	410	61	4.6	59	35- 105	DIL
2,4-Dinitrotoluene	680	520	76	3.4	45	50- 115	DIL
4-Nitrophenol	680	410	60	23	64	15- 140	DIL
N-Nitrosodi-n-propylamine	680	440	65	3.8	50	40- 115	DIL
Pentachlorophenol	680	440	65	1.7	87	25- 120	DIL
Phenol	680	540	80	12	50	40- 100	DIL
Pyrene	680	660	77	2.1	66	45- 125	DIL
1,2,4-Trichlorobenzene	680	450	67	0.98	54	45- 110	DIL
bis(2-Ethylhexyl) phthala	680	660	83	1.6	31	45- 125	DIL
Acenaphthylene	680	510	75	1.3	41	45- 105	DIL
Anthracene	680	550	81	1.6	22	55- 105	DIL
Benzo(a)anthracene	680	610	78	1.9	23	50- 110	DIL
Benzo(b)fluoranthene	680	620	74	7.6	28	45- 115	DIL
Benzo(k)fluoranthene	680	600	83	4.4	31	45- 125	DIL
Benzo(ghi)perylene	680	590	80	3.4	50	40- 125	DIL
Benzo(a)pyrene	680	520	66	4.2	31	50- 110	DIL
bis(2-Chloroethoxy)methan	680	480	71	1.3	35	45- 110	DIL
bis(2-Chloroethyl) ether	680	430	63	3.2	33	40- 105	DIL
4-Bromophenyl phenyl ethe	680	540	79	2.0	20	45- 115	DIL
Butyl benzyl phthalate	680	540	79	2.2	35	50- 125	DIL
Carbazole	680	530	79	0.080	20	45- 115	DIL
4-Chloroaniline	680	140	21	2.3	28	10- 95	DIL
2-Chloronaphthalene	680	490	72	1.8	28	45- 105	DIL
4-Chlorophenyl phenyl eth	680	540	79	0.65	29	45- 110	DIL
Chrysene	680	620	78	1.6	31	55- 110	DIL

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: F16SS-027M-5432-SO

Lot #: A0B250463 WO #: LV3LM1D0
BATCH: 0060040

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Dibenzo(a,h)anthracene	680	560	82	4.6		55	40 - 125	DIL
Dibenzofuran	680	550	81	2.1		27	50 - 105	DIL
Di-n-butyl phthalate	680	560	82	0.97		24	55 - 110	DIL
1,2-Dichlorobenzene	680	420	62	3.8		25	45 - 95	DIL
1,3-Dichlorobenzene	680	390	58	3.6		46	40 - 100	DIL
3,3'-Dichlorobenzidine	680	88	13	200	*	56	10 - 130	DIL p
2,4-Dichlorophenol	680	540	80	2.6		27	45 - 110	DIL
Diethyl phthalate	680	520	77	0.30		29	50 - 115	DIL
2,4-Dimethylphenol	680	490	72	6.9		26	30 - 105	DIL
Dimethyl phthalate	680	510	75	0.80		30	50 - 110	DIL
4,6-Dinitro-2-methylpheno	680	330	48	39		39	30 - 135	DIL
2,4-Dinitrophenol	680	560	83	21		56	15 - 130	DIL
2,6-Dinitrotoluene	680	550	81	4.9		39	50 - 110	DIL
Di-n-octyl phthalate	680	530	78	5.1		29	40 - 130	DIL
Fluoranthene	680	730	81	0.98		23	55 - 115	DIL
Fluorene	680	520	77	0.22		29	50 - 110	DIL
Hexachlorobenzene	680	530	78	2.5		29	45 - 120	DIL
Hexachlorobutadiene	680	460	67	1.2		25	40 - 115	DIL
Hexachloroethane	680	380	56	2.4		29	35 - 110	DIL
Indeno(1,2,3-cd)pyrene	680	580	80	4.1		37	40 - 120	DIL
Isophorone	680	440	66	1.9		30	45 - 110	DIL
2-Methylnaphthalene	680	780	93	6.5		27	45 - 105	DIL
2-Methylphenol	680	490	73	4.5		29	40 - 105	DIL
Naphthalene	680	560	69	6.7		25	40 - 105	DIL
2-Nitroaniline	680	510	75	0.14		39	45 - 120	DIL
3-Nitroaniline	680	300	44	12		45	25 - 110	DIL
4-Nitroaniline	680	380	56	15		44	35 - 115	DIL
Nitrobenzene	680	460	67	0.62		29	40 - 115	DIL

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: F16SS-027M-5432-SO

Lot #: A0B250463 WO #: LV3LM1D0
BATCH: 0060040

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
2-Nitrophenol	680	470	69	4.2	30	40- 110	DIL
N-Nitrosodiphenylamine	680	500	74	5.7	68	50- 115	DIL
Phenanthrene	680	670	78	2.7	20	50- 110	DIL
2,4,5-Trichlorophenol	680	550	81	6.4	30	50- 110	DIL
2,4,6-Trichlorophenol	680	500	73	0.18	29	45- 110	DIL
Benzyl alcohol	680	470	69	6.6	20	20- 125	DIL
bis(2-Chloroisopropyl) et	680	420	62	2.6	27	20- 115	DIL
N-Nitrosodimethylamine	680	390	57	3.7	47	20- 115	DIL
1,2-Diphenylhydrazine (as	680	490	73	5.0	20	1- 175	DIL

NOTES(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 65 outside limits
Spike Recovery: 0 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV6AW1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: LV6AW1AA.

Lot Number: A0B250463

Date Analyzed: 03/12/10

Time Analyzed: 10:11

Matrix: SOLID

Date Extracted:03/01/10

GC Column: DB-5.625 ID: .32

Extraction Method: 3540C

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #		LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ATASB-008-5133-SO	LV3KQ1AD		LV3KQ1AD.	03/12/10	11:48
02	ATASB-008-5134-SO	LV3KR1AP		LV3KR1AP.	03/12/10	12:07
03	F15SS-036M-5427-SO	LV3K91A5		LV3K91A5.	03/08/10	15:04
04	F15SS-035M-5428-SO	LV3LA1AG		LV3LA1AG.	03/08/10	14:07
05	F15SS-035M-6121-FD	LV3LC1AP		LV3LC1AP.	03/08/10	14:26
06	F15SS-037M-5429-SO	LV3LE1AX		LV3LE1AX.	03/08/10	15:43
07	F15SS-038M-5430-SO	LV3LH1AC		LV3LH1AC.	03/08/10	14:45
08	F16SS-026M-5431-SO	LV3LJ1AC		LV3LJ1AC.	03/12/10	11:28
09	F16SS-027M-5432-SO	LV3LM1DQ		LV3LM1DQ.	03/08/10	13:09
10	F16SS-027M-5432-SO	LV3LM1DX	S	LV3LM1DX.	03/08/10	13:28
11	F16SS-027M-5432-SO	LV3LM1D0	D	LV3LM1D0.	03/09/10	15:16
12	F16SS-028M-5433-SO	LV3LR1AC		LV3LR1AC.	03/08/10	15:24
13	CHECK SAMPLE	LV6AW1AC	C	LV6AW1AC.	03/12/10	10:30
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COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID: 7DF0305 DFTPP Injection Date: 03/05/10

Instrument ID: A4HP7 DFTPP Injection Time: 1006

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	39.3
68	Less than 2.0% of mass 69	0.5 (1.4)1
69	Mass 69 relative abundance	37.9
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	25.0 - 75.0% of mass 198	49.7
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	24.8
365	Greater than 0.75% of mass 198	2.30
441	Present, but less than mass 443	8.4
442	40.0 - 110.0% of mass 198	58.1
443	15.0 - 24.0% of mass 442	11.2 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005	L5	7SMM0305	03/05/10	1022
02	SSTD004	L4	7SM0305	03/05/10	1041
03	SSTD003	L3	7SML0305	03/05/10	1100
04	SSTD002	L2	7SL0305	03/05/10	1119
05	SSTD001	L1	7SLL0305	03/05/10	1138
06	SSTD009	L9	7SHHH0305	03/05/10	1157
07	SSTD008	L8	7SHH0305	03/05/10	1217
08	SSTD007	L7	7SH0305	03/05/10	1236
09	SSTD006	L6	7SMH0305	03/05/10	1255
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID: 7DF0308 DFTPP Injection Date: 03/08/10

Instrument ID: A4HP7 DFTPP Injection Time: 0957

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	42.3
68	Less than 2.0% of mass 69	0.7 (1.9)1
69	Mass 69 relative abundance	38.6
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	25.0 - 75.0% of mass 198	51.6
197	Less than 1.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	24.7
365	Greater than 0.75% of mass 198	2.50
441	Present, but less than mass 443	8.2
442	40.0 - 110.0% of mass 198	58.4
443	15.0 - 24.0% of mass 442	11.3 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD006	L6	7SMH0308	03/08/10	1016
02	F16SS-027M-5	LV3LM1DQ	LV3LM1DQ	03/08/10	1309
03	F16SS-027M-5	LV3LM1DX	LV3LM1DX	03/08/10	1328
04	F15SS-035M-5	LV3LA1AG	LV3LA1AG	03/08/10	1407
05	F15SS-035M-6	LV3LC1AP	LV3LC1AP	03/08/10	1426
06	F15SS-038M-5	LV3LH1AC	LV3LH1AC	03/08/10	1445
07	F15SS-036M-5	LV3K91A5	LV3K91A5	03/08/10	1504
08	F16SS-028M-5	LV3LR1AC	LV3LR1AC	03/08/10	1524
09	F15SS-037M-5	LV3LE1AX	LV3LE1AX	03/08/10	1543
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID: 7DF0309 DFTPP Injection Date: 03/09/10

Instrument ID: A4HP7 DFTPP Injection Time: 0911

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	34.4
68	Less than 2.0% of mass 69	0.6 (1.8)1
69	Mass 69 relative abundance	33.4
70	Less than 2.0% of mass 69	0.1 (0.4)1
127	25.0 - 75.0% of mass 198	48.3
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	26.0
365	Greater than 0.75% of mass 198	2.70
441	Present, but less than mass 443	9.5
442	40.0 - 110.0% of mass 198	66.0
443	15.0 - 24.0% of mass 442	12.7 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD006	L6	7SMH0309	03/09/10	0930
02	F16SS-027M-5	LV3LM1D0	LV3LM1D0	03/09/10	1516
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID: 7DF0312 DFTPP Injection Date: 03/12/10

Instrument ID: A4HP7 DFTPP Injection Time: 0910

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	37.2
68	Less than 2.0% of mass 69	0.7 (2.0)1
69	Mass 69 relative abundance	35.1
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	25.0 - 75.0% of mass 198	49.4
197	Less than 1.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	25.6
365	Greater than 0.75% of mass 198	2.41
441	Present, but less than mass 443	8.7
442	40.0 - 110.0% of mass 198	60.0
443	15.0 - 24.0% of mass 442	11.7 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD006	L6	7SMH0312	03/12/10	0931
02	LV6AWBLK	LV6AW1AA	LV6AW1AA	03/12/10	1011
03	LV6AWCHK	LV6AW1AC	LV6AW1AC	03/12/10	1030
04	F16SS-026M-5	LV3LJ1AC	LV3LJ1AC	03/12/10	1128
05	ATASB-008-51	LV3KQ1AD	LV3KQ1AD	03/12/10	1148
06	ATASB-008-51	LV3KR1AP	LV3KR1AP	03/12/10	1207
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID (Standard): 7SMH0308 Date Analyzed: 03/08/10

Instrument ID: A4HP7 Time Analyzed: 1016

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	388613		3.56		1628032		4.45		875709		5.72	
	UPPER LIMIT	777226		4.06		3256064		4.95		1751418		6.22	
	LOWER LIMIT	194307		3.06		814016		3.95		437855		5.22	
	EPA SAMPLE NO.												
01	F16SS-027M-5	315199		3.57		1283246		4.45		755617		5.72	
02	F16SS-027M-5	267704		3.57		1056900		4.45		598901		5.72	
03	F15SS-035M-5	285897		3.57		1199901		4.45		724125		5.72	
04	F15SS-035M-6	349113		3.57		1491298		4.45		881877		5.72	
05	F15SS-038M-5	324504		3.57		1349716		4.46		806654		5.72	
06	F15SS-036M-5	247192		3.58		1082896		4.45		684460		5.72	
07	F16SS-028M-5	255927		3.58		1077336		4.46		651146		5.72	
08	F15SS-037M-5	214724		3.58		974111		4.46		607366		5.72	
09													
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22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID (Standard): 7SMH0308 Date Analyzed: 03/08/10

Instrument ID: A4HP7 Time Analyzed: 1016

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1398875		6.81		1597704		8.77		1473841		10.24	
	UPPER LIMIT	2797750		7.31		3195408		9.27		2947682		10.74	
	LOWER LIMIT	699438		6.31		798852		8.27		736921		9.74	
	EPA SAMPLE NO.												
01	F16SS-027M-5	1235257		6.81		1439374		8.78		1325724		10.26	
02	F16SS-027M-5	954876		6.81		1111671		8.77		1047390		10.25	
03	F15SS-035M-5	1194151		6.81		1443795		8.77		1371718		10.25	
04	F15SS-035M-6	1415166		6.81		1737022		8.78		1645802		10.26	
05	F15SS-038M-5	1364020		6.81		1598735		8.78		1513581		10.26	
06	F15SS-036M-5	1185424		6.81		1464692		8.78		1380702		10.26	
07	F16SS-028M-5	1149855		6.81		1403800		8.77		1337939		10.25	
08	F15SS-037M-5	1058686		6.81		1392124		8.78		1286730		10.26	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID (Standard): 7SMH0309 Date Analyzed: 03/09/10

Instrument ID: A4HP7 Time Analyzed: 0930

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	341152		3.51		1446738		4.41		804562		5.68	
	UPPER LIMIT	682304		4.01		2893476		4.91		1609124		6.18	
	LOWER LIMIT	170576		3.01		723369		3.91		402281		5.18	
	EPA SAMPLE NO.												
01	F16SS-027M-5	340961		3.53		1439835		4.41		865829		5.68	
02													
03													
04													
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22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID (Standard): 7SMH0309 Date Analyzed: 03/09/10

Instrument ID: A4HP7 Time Analyzed: 0930

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1309544		6.76		1499707		8.72		1385210		10.16	
	UPPER LIMIT	2619088		7.26		2999414		9.22		2770420		10.66	
	LOWER LIMIT	654772		6.26		749854		8.22		692605		9.66	
	EPA SAMPLE NO.												
01	F16SS-027M-5	1443663		6.76		1680166		8.72		1617601		10.17	
02													
03													
04													
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22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID (Standard): 7SMH0312 Date Analyzed: 03/12/10

Instrument ID: A4HP7 Time Analyzed: 0931

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	406631		3.54		1724183		4.43		937660		5.70	
	UPPER LIMIT	813262		4.04		3448366		4.93		1875320		6.20	
	LOWER LIMIT	203316		3.04		862092		3.93		468830		5.20	
	EPA SAMPLE NO.												
01	LV6AWBLK	378240		3.54		1562753		4.43		907851		5.70	
02	LV6AWCHK	351349		3.54		1482516		4.43		853850		5.70	
03	F16SS-026M-5	325703		3.55		1378648		4.44		809251		5.70	
04	ATASB-008-51	221451		3.54		933677		4.43		559116		5.70	
05	ATASB-008-51	315188		3.54		1284334		4.43		734772		5.70	
06													
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22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0B250463

Lab File ID (Standard): 7SMH0312 Date Analyzed: 03/12/10

Instrument ID: A4HP7 Time Analyzed: 0931

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1520172		6.78		1731041		8.75		1586026		10.21	
	UPPER LIMIT	3040344		7.28		3462082		9.25		3172052		10.71	
	LOWER LIMIT	760086		6.28		865521		8.25		793013		9.71	
	EPA SAMPLE NO.												
01	LV6AWBLK	1426303		6.78		1612339		8.75		1417019		10.21	
02	LV6AWCHK	1349006		6.78		1554332		8.74		1361709		10.20	
03	F16SS-026M-5	1345214		6.78		1575251		8.75		1461752		10.21	
04	ATASB-008-51	959529		6.78		1151382		8.74		1051179		10.21	
05	ATASB-008-51	1182436		6.78		1339392		8.74		1243733		10.21	
06													
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22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ1AD **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/12/10
Prep Batch #...: 0060040
Dilution Factor: 1 **Initial Wgt/Vol:** 30.08 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 11 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	56	ug/kg	3.7
Acenaphthylene	ND	56	ug/kg	3.7
Anthracene	ND	56	ug/kg	3.7
Benzo(a)anthracene	ND	56	ug/kg	3.7
Benzo(b)fluoranthene	ND	56	ug/kg	3.7
Benzo(k)fluoranthene	ND	56	ug/kg	3.7
Benzoic acid	ND	900	ug/kg	380
Benzo(ghi)perylene	ND	56	ug/kg	3.7
Benzo(a)pyrene	ND	56	ug/kg	3.7
Benzyl alcohol	ND	370	ug/kg	24
bis(2-Chloroethoxy) methane	ND	370	ug/kg	25
bis(2-Chloroethyl)-ether	ND	370	ug/kg	2.3
bis(2-Chloroisopropyl) ether	ND	370	ug/kg	11
bis(2-Ethylhexyl) phthalate	**26 J,B**	**370**	**ug/kg**	**21**
4-Bromophenyl phenyl ether	ND	370	ug/kg	15
Butyl benzyl phthalate	ND	370	ug/kg	11
Carbazole	ND	56	ug/kg	30
4-Chloroaniline	ND	370	ug/kg	19
4-Chloro-3-methylphenol	ND	370	ug/kg	24
2-Chloronaphthalene	ND	370	ug/kg	3.7
2-Chlorophenol	ND	370	ug/kg	30
4-Chlorophenyl phenyl ether	ND	370	ug/kg	15
Dibenzo(a,h)anthracene	ND	56	ug/kg	3.7
Dibenzofuran	ND	370	ug/kg	23
Di-n-butyl phthalate	ND	370	ug/kg	17
1,2-Dichlorobenzene	ND	370	ug/kg	11
1,3-Dichlorobenzene	ND	370	ug/kg	12
1,4-Dichlorobenzene	ND	370	ug/kg	23
3,3'-Dichlorobenzidine	ND	370	ug/kg	20
2,4-Dichlorophenol	ND	370	ug/kg	23
Diethyl phthalate	ND	370	ug/kg	18
2,4-Dimethylphenol	ND	370	ug/kg	23

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ1AD **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dimethyl phthalate	ND	370	ug/kg	19
4,6-Dinitro-2-methylphenol	ND	900	ug/kg	90
2,4-Dinitrophenol	ND	900	ug/kg	90
2,4-Dinitrotoluene	ND	370	ug/kg	30
2,6-Dinitrotoluene	ND	370	ug/kg	24
Di-n-octyl phthalate	ND	370	ug/kg	30
Fluoranthene	ND	56	ug/kg	3.7
Fluorene	ND	56	ug/kg	3.7
Hexachlorobenzene	ND	370	ug/kg	2.4
Hexachlorobutadiene	ND	370	ug/kg	30
Hexachlorocyclopentadiene	ND	370	ug/kg	30
Hexachloroethane	ND	370	ug/kg	10
Indeno(1,2,3-cd)pyrene	ND	56	ug/kg	3.7
Isophorone	ND	370	ug/kg	15
2-Methylnaphthalene	ND	370	ug/kg	3.7
2-Methylphenol	ND	370	ug/kg	90
3-Methylphenol & 4-Methylphenol	ND	370	ug/kg	23
Naphthalene	ND	56	ug/kg	3.7
2-Nitroaniline	ND	900	ug/kg	10
3-Nitroaniline	ND	900	ug/kg	18
4-Nitroaniline	ND	900	ug/kg	29
Nitrobenzene	ND	370	ug/kg	2.5
2-Nitrophenol	ND	370	ug/kg	30
4-Nitrophenol	ND	900	ug/kg	90
N-Nitrosodiphenylamine	ND	370	ug/kg	24
N-Nitrosodi-n-propylamine	ND	370	ug/kg	30
Pentachlorophenol	ND	370	ug/kg	90
Phenanthrene	ND	56	ug/kg	3.7
Phenol	ND	370	ug/kg	30
Pyrene	ND	56	ug/kg	3.7
1,2,4-Trichlorobenzene	ND	370	ug/kg	30
2,4,5-Trichlorophenol	ND	370	ug/kg	28
2,4,6-Trichlorophenol	ND	370	ug/kg	90
Chrysene	ND	56	ug/kg	1.2

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ1AD **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	65	(45 - 105)
2-Fluorophenol	72	(35 - 105)
Phenol-d5	68	(40 - 100)
2,4,6-Tribromophenol	56	(35 - 125)
Nitrobenzene-d5	66	(35 - 100)
Terphenyl-d14	85	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\LV3KQ1AD.D
Lab Smp Id: lv3kq1ad Client Smp ID: ATASB-008-5133-SO
Inj Date : 12-MAR-2010 11:48
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3kq1ad,00312a.b,8270c-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Meth Date : 15-Mar-2010 14:43 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.080	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.538	3.538	(1.000)	221451	2.00000		(Q)
* 2 Naphthalene-d8	136	4.431	4.431	(1.000)	933677	2.00000		
* 3 Acenaphthene-d10	164	5.699	5.699	(1.000)	559116	2.00000		
* 4 Phenanthrene-d10	188	6.784	6.784	(1.000)	959529	2.00000		
* 5 Chrysene-d12	240	8.742	8.747	(1.000)	1151382	2.00000		
* 6 Perylene-d12	264	10.207	10.207	(1.000)	1051179	2.00000		
9 Pyridine	79	Compound Not Detected.						
10 N-Nitrosodimethylamine	74	Compound Not Detected.						
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	Compound Not Detected.						
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	Compound Not Detected.						
21 Aniline	93	Compound Not Detected.						
22 Phenol	94	Compound Not Detected.						
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	Compound Not Detected.						
26 1,3-Dichlorobenzene	146	Compound Not Detected.						
27 1,4-Dichlorobenzene	146	Compound Not Detected.						
28 1,2-Dichlorobenzene	146	Compound Not Detected.						

29	Benzyl Alcohol	108	Compound Not Detected.
30	2-Methylphenol	108	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	4.180	4.228	(0.943)	17386	0.71833	95.522
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	Compound Not Detected.					
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	Compound Not Detected.					
63	1-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					
212	Atrazine	200	Compound Not Detected.					

111	Pentachlorophenol	266	Compound Not Detected.
115	Phenanthrene	178	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
116	Anthracene	178	Compound Not Detected.					
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
123	Fluoranthene	202	Compound Not Detected.					
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	Compound Not Detected.					
131	Butylbenzylphthalate	149	Compound Not Detected.					
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	Compound Not Detected.					
137	Chrysene	228	Compound Not Detected.					
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.662	8.662	(0.991)	67956	0.17181	22.847
140	Di-n-octylphthalate	149	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	Compound Not Detected.					
142	Benzo(k)fluoranthene	252	Compound Not Detected.					
146	Benzo(a)pyrene	252	Compound Not Detected.					
149	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150	Dibenz(a,h)anthracene	278	Compound Not Detected.					
151	Benzo(g,h,i)perylene	276	Compound Not Detected.					
198	1,4-Dioxane	88	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.917	3.917	(0.884)	468027	3.31772	441.19
$ 155	2-Fluorobiphenyl	172	5.190	5.190	(0.911)	1054125	3.26804	434.58
$ 156	Terphenyl-d14	244	7.924	7.924	(0.906)	1532995	4.23835	563.61
$ 157	Phenol-d5	99	3.249	3.244	(0.918)	846139	5.10004	678.20
$ 158	2-Fluorophenol	112	2.677	2.661	(0.757)	679630	5.41211	719.70
$ 159	2,4,6-Tribromophenol	330	6.271	6.271	(1.100)	157417	4.17193	554.78
$ 186	2-Chlorophenol-d4	132	3.383	3.383	(0.956)	746952	5.69537	757.36
$ 187	1,2-Dichlorobenzene-d4	152	3.645	3.645	(1.030)	250017	2.82537	375.71
M 195	Cresols, total	100	Compound Not Detected.					
101	Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

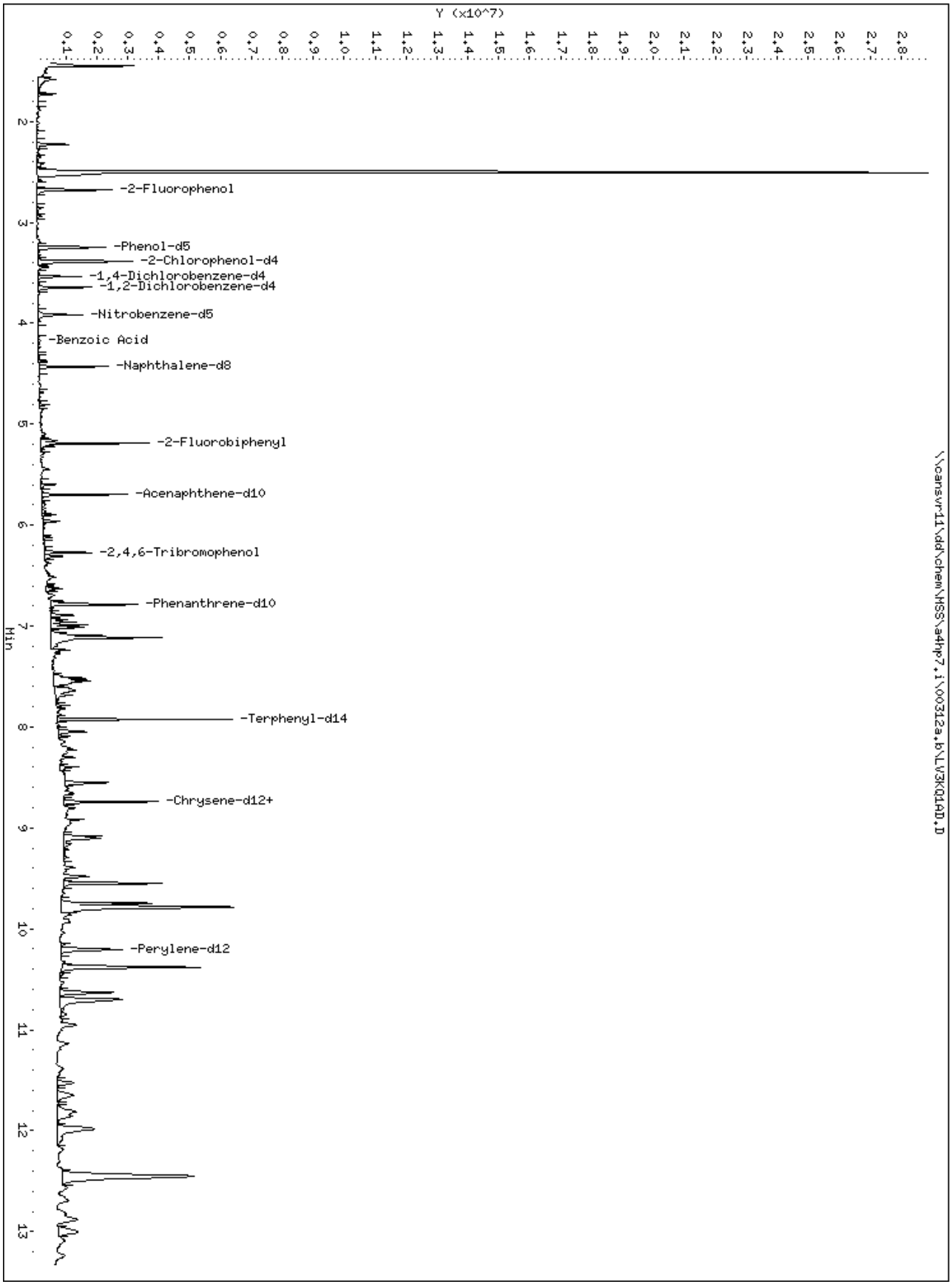
Instrument ID: a4hp7.i
Lab File ID: LV3KQ1AD.D
Lab Smp Id: lv3kq1ad
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Misc Info:

Calibration Date: 12-MAR-2010
Calibration Time: 09:31
Client Smp ID: ATASB-008-5133-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	406631	203316	813262	221451	-45.54
2 Naphthalene-d8	1724183	862092	3448366	933677	-45.85
3 Acenaphthene-d10	937660	468830	1875320	559116	-40.37
4 Phenanthrene-d10	1520172	760086	3040344	959529	-36.88
5 Chrysene-d12	1731041	865521	3462082	1151382	-33.49
6 Perylene-d12	1586026	793013	3172052	1051179	-33.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	-0.00
2 Naphthalene-d8	4.43	3.93	4.93	4.43	-0.00
3 Acenaphthene-d10	5.70	5.20	6.20	5.70	-0.00
4 Phenanthrene-d10	6.78	6.28	7.28	6.78	-0.00
5 Chrysene-d12	8.75	8.25	9.25	8.74	-0.06
6 Perylene-d12	10.21	9.71	10.71	10.21	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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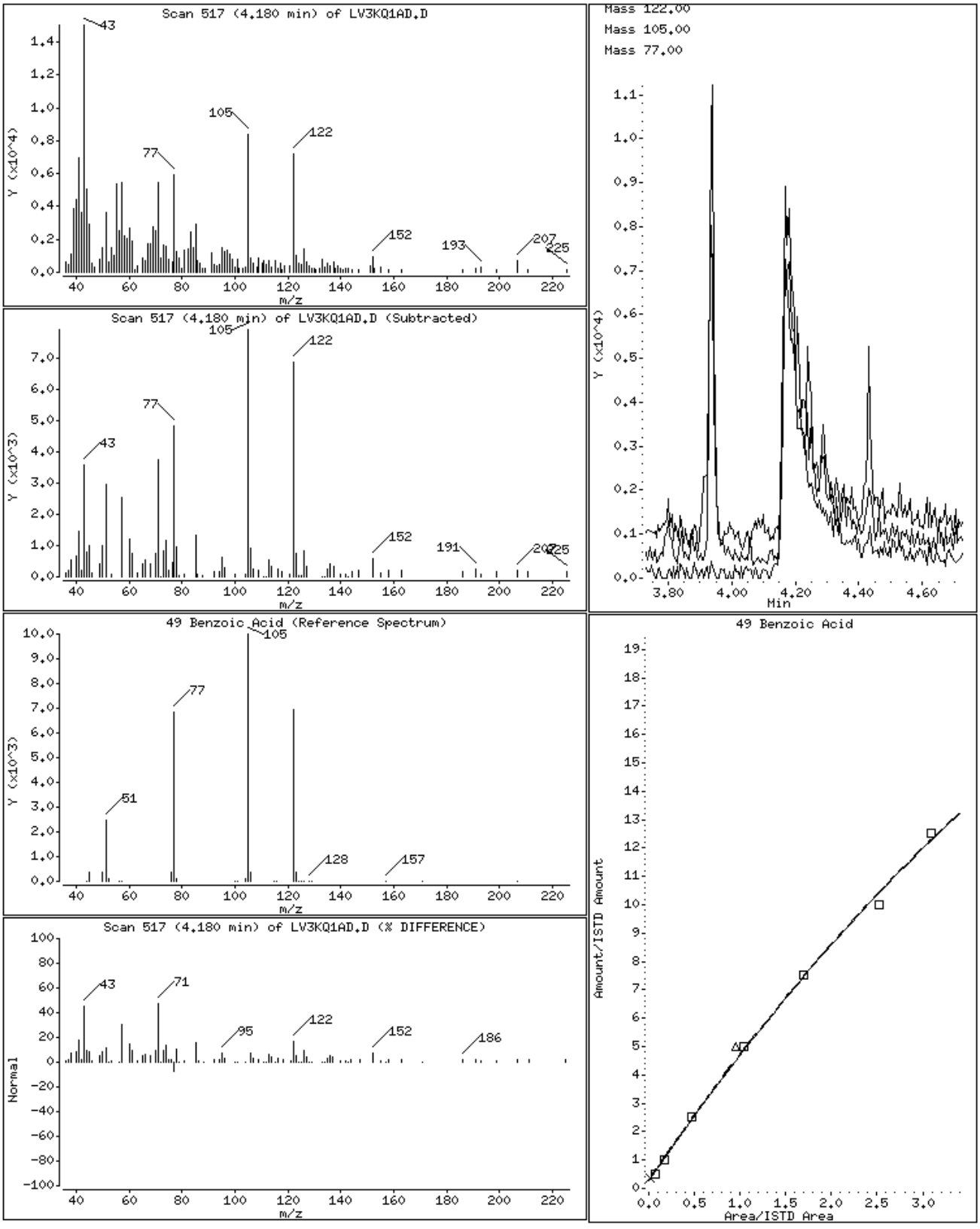
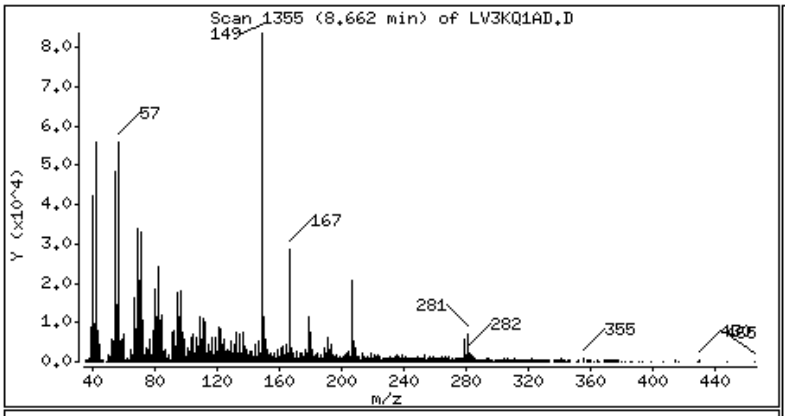
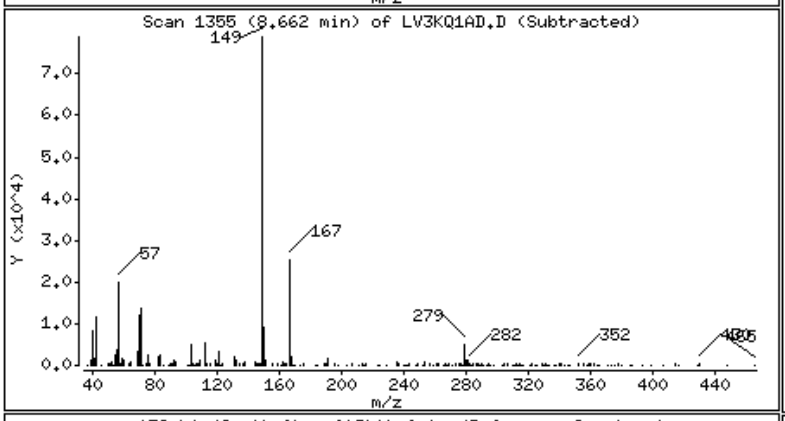
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8
2
3
4
5
6
7
8
9
10
11
12
13
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Benzoic Acid
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
\\cansvr11\dd\chem\HSS\a4hp7.i\00312a.b\LW3KQ10D.D

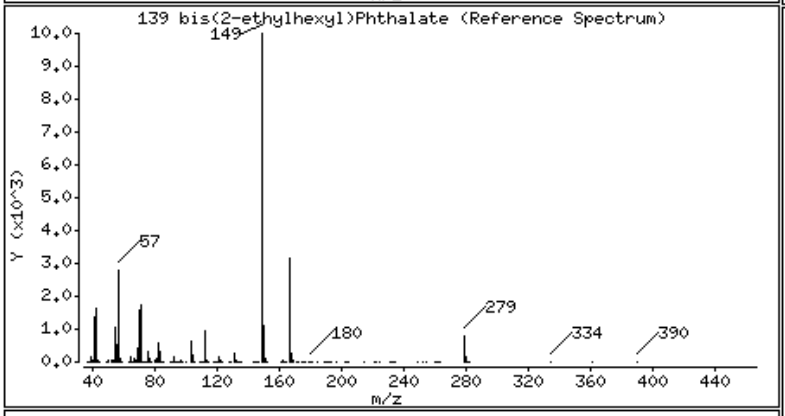
49 Benzoic Acid

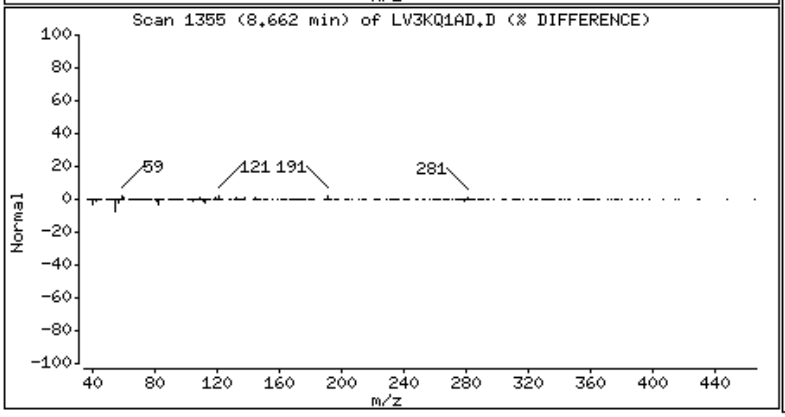


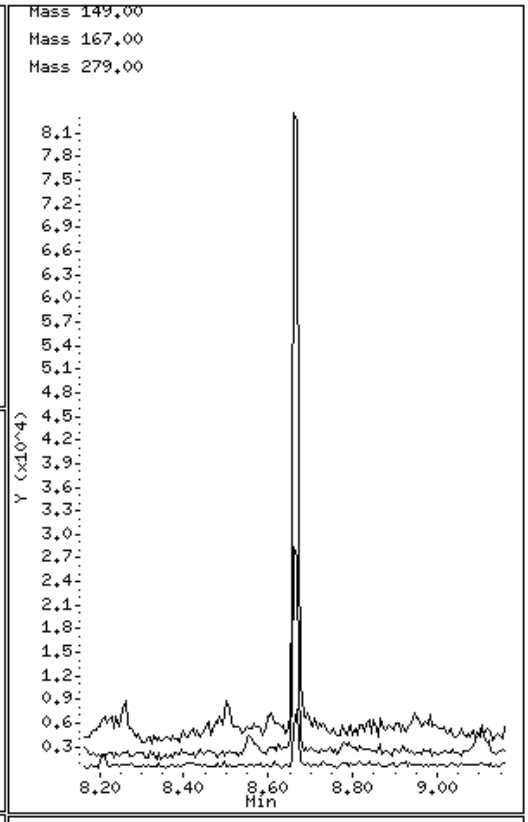
139 bis(2-ethylhexyl)Phthalate

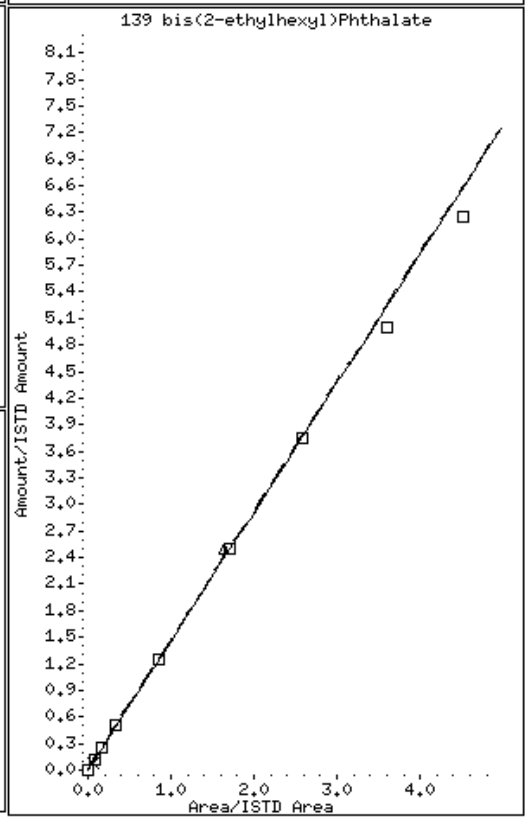












Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR1AP **Matrix.....:** SO
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/12/10
Prep Batch #...: 0060040
Dilution Factor: 1 **Initial Wgt/Vol:** 30.04 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 4.8 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	53	ug/kg	3.5
Acenaphthylene	ND	53	ug/kg	3.5
Anthracene	ND	53	ug/kg	3.5
Benzo(a)anthracene	ND	53	ug/kg	3.5
Benzo(b)fluoranthene	ND	53	ug/kg	3.5
Benzo(k)fluoranthene	ND	53	ug/kg	3.5
Benzoic acid	ND	840	ug/kg	350
Benzo(ghi)perylene	ND	53	ug/kg	3.5
Benzo(a)pyrene	ND	53	ug/kg	3.5
Benzyl alcohol	ND	350	ug/kg	22
bis(2-Chloroethoxy) methane	ND	350	ug/kg	23
bis(2-Chloroethyl)-ether	ND	350	ug/kg	2.1
bis(2-Chloroisopropyl) ether	ND	350	ug/kg	10
bis(2-Ethylhexyl) phthalate	**20 J,B**	**350**	**ug/kg**	**20**
4-Bromophenyl phenyl ether	ND	350	ug/kg	14
Butyl benzyl phthalate	ND	350	ug/kg	11
Carbazole	ND	53	ug/kg	28
4-Chloroaniline	ND	350	ug/kg	18
4-Chloro-3-methylphenol	ND	350	ug/kg	22
2-Chloronaphthalene	ND	350	ug/kg	3.5
2-Chlorophenol	ND	350	ug/kg	28
4-Chlorophenyl phenyl ether	ND	350	ug/kg	14
Dibenzo(a,h)anthracene	ND	53	ug/kg	3.5
Dibenzofuran	ND	350	ug/kg	21
Di-n-butyl phthalate	ND	350	ug/kg	16
1,2-Dichlorobenzene	ND	350	ug/kg	10
1,3-Dichlorobenzene	ND	350	ug/kg	12
1,4-Dichlorobenzene	ND	350	ug/kg	21
3,3'-Dichlorobenzidine	ND	350	ug/kg	19
2,4-Dichlorophenol	ND	350	ug/kg	21
Diethyl phthalate	ND	350	ug/kg	17
2,4-Dimethylphenol	ND	350	ug/kg	21

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR1AP **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dimethyl phthalate	ND	350	ug/kg	18
4,6-Dinitro-2-methylphenol	ND	840	ug/kg	84
2,4-Dinitrophenol	ND	840	ug/kg	84
2,4-Dinitrotoluene	ND	350	ug/kg	28
2,6-Dinitrotoluene	ND	350	ug/kg	22
Di-n-octyl phthalate	ND	350	ug/kg	28
Fluoranthene	ND	53	ug/kg	3.5
Fluorene	ND	53	ug/kg	3.5
Hexachlorobenzene	ND	350	ug/kg	2.2
Hexachlorobutadiene	ND	350	ug/kg	28
Hexachlorocyclopenta-diene	ND	350	ug/kg	28
Hexachloroethane	ND	350	ug/kg	9.5
Indeno(1,2,3-cd)pyrene	ND	53	ug/kg	3.5
Isophorone	ND	350	ug/kg	14
2-Methylnaphthalene	ND	350	ug/kg	3.5
2-Methylphenol	ND	350	ug/kg	84
3-Methylphenol & 4-Methylphenol	ND	350	ug/kg	21
Naphthalene	ND	53	ug/kg	3.5
2-Nitroaniline	ND	840	ug/kg	9.6
3-Nitroaniline	ND	840	ug/kg	17
4-Nitroaniline	ND	840	ug/kg	27
Nitrobenzene	ND	350	ug/kg	2.3
2-Nitrophenol	ND	350	ug/kg	28
4-Nitrophenol	ND	840	ug/kg	84
N-Nitrosodiphenylamine	ND	350	ug/kg	22
N-Nitrosodi-n-propyl-amine	ND	350	ug/kg	28
Pentachlorophenol	ND	350	ug/kg	84
Phenanthrene	ND	53	ug/kg	3.5
Phenol	ND	350	ug/kg	28
Pyrene	ND	53	ug/kg	3.5
1,2,4-Trichloro-benzene	ND	350	ug/kg	28
2,4,5-Trichloro-phenol	ND	350	ug/kg	26
2,4,6-Trichloro-phenol	ND	350	ug/kg	84
Chrysene	ND	53	ug/kg	1.2

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR1AP **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	58	(45 - 105)
2-Fluorophenol	63	(35 - 105)
Phenol-d5	57	(40 - 100)
2,4,6-Tribromophenol	29 *	(35 - 125)
Nitrobenzene-d5	61	(35 - 100)
Terphenyl-d14	80	(30 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\LV3KR1AP.D
Lab Smp Id: lv3kr1ap Client Smp ID: ATASB-008-5134-SO
Inj Date : 12-MAR-2010 12:07
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3kr1ap,00312a.b,8270c-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Meth Date : 15-Mar-2010 14:43 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.040	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.538	3.538	(1.000)	315188	2.00000		(Q)
* 2 Naphthalene-d8	136	4.431	4.431	(1.000)	1284334	2.00000		
* 3 Acenaphthene-d10	164	5.699	5.699	(1.000)	734772	2.00000		
* 4 Phenanthrene-d10	188	6.784	6.784	(1.000)	1182436	2.00000		
* 5 Chrysene-d12	240	8.742	8.747	(1.000)	1339392	2.00000		
* 6 Perylene-d12	264	10.207	10.207	(1.000)	1243733	2.00000		
9 Pyridine	79	Compound Not Detected.						
10 N-Nitrosodimethylamine	74	Compound Not Detected.						
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	Compound Not Detected.						
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	Compound Not Detected.						
21 Aniline	93	Compound Not Detected.						
22 Phenol	94	Compound Not Detected.						
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	Compound Not Detected.						
26 1,3-Dichlorobenzene	146	Compound Not Detected.						
27 1,4-Dichlorobenzene	146	Compound Not Detected.						

28	1,2-Dichlorobenzene	146	Compound Not Detected.
29	Benzyl Alcohol	108	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
30	2-Methylphenol	108	Compound Not Detected.					
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	Compound Not Detected.					
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	Compound Not Detected.					
63	1-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					

212	Atrazine	200	Compound Not Detected.
111	Pentachlorophenol	266	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
115	Phenanthrene	178	Compound Not Detected.					
116	Anthracene	178	Compound Not Detected.					
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
123	Fluoranthene	202	Compound Not Detected.					
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	Compound Not Detected.					
131	Butylbenzylphthalate	149	Compound Not Detected.					
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	Compound Not Detected.					
137	Chrysene	228	Compound Not Detected.					
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.662	8.662	(0.991)	66686	0.14493	19.298
140	Di-n-octylphthalate	149	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	Compound Not Detected.					
142	Benzo(k)fluoranthene	252	Compound Not Detected.					
146	Benzo(a)pyrene	252	Compound Not Detected.					
149	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150	Dibenz(a,h)anthracene	278	Compound Not Detected.					
151	Benzo(g,h,i)perylene	276	Compound Not Detected.					
198	1,4-Dioxane	88	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.917	3.917	(0.884)	594381	3.06304	407.86
$ 155	2-Fluorobiphenyl	172	5.190	5.190	(0.911)	1238072	2.92072	388.91
$ 156	Terphenyl-d14	244	7.924	7.924	(0.906)	1678230	3.98859	531.10
$ 157	Phenol-d5	99	3.249	3.244	(0.918)	1011143	4.28206	570.18
$ 158	2-Fluorophenol	112	2.677	2.661	(0.757)	842094	4.71154	627.37
$ 159	2,4,6-Tribromophenol	330	6.276	6.271	(1.101)	106983	2.15749	287.28
$ 186	2-Chlorophenol-d4	132	3.388	3.383	(0.958)	902381	4.83423	643.70
$ 187	1,2-Dichlorobenzene-d4	152	3.645	3.645	(1.030)	337471	2.67948	356.79
M 195	Cresols, total	100	Compound Not Detected.					
101	Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

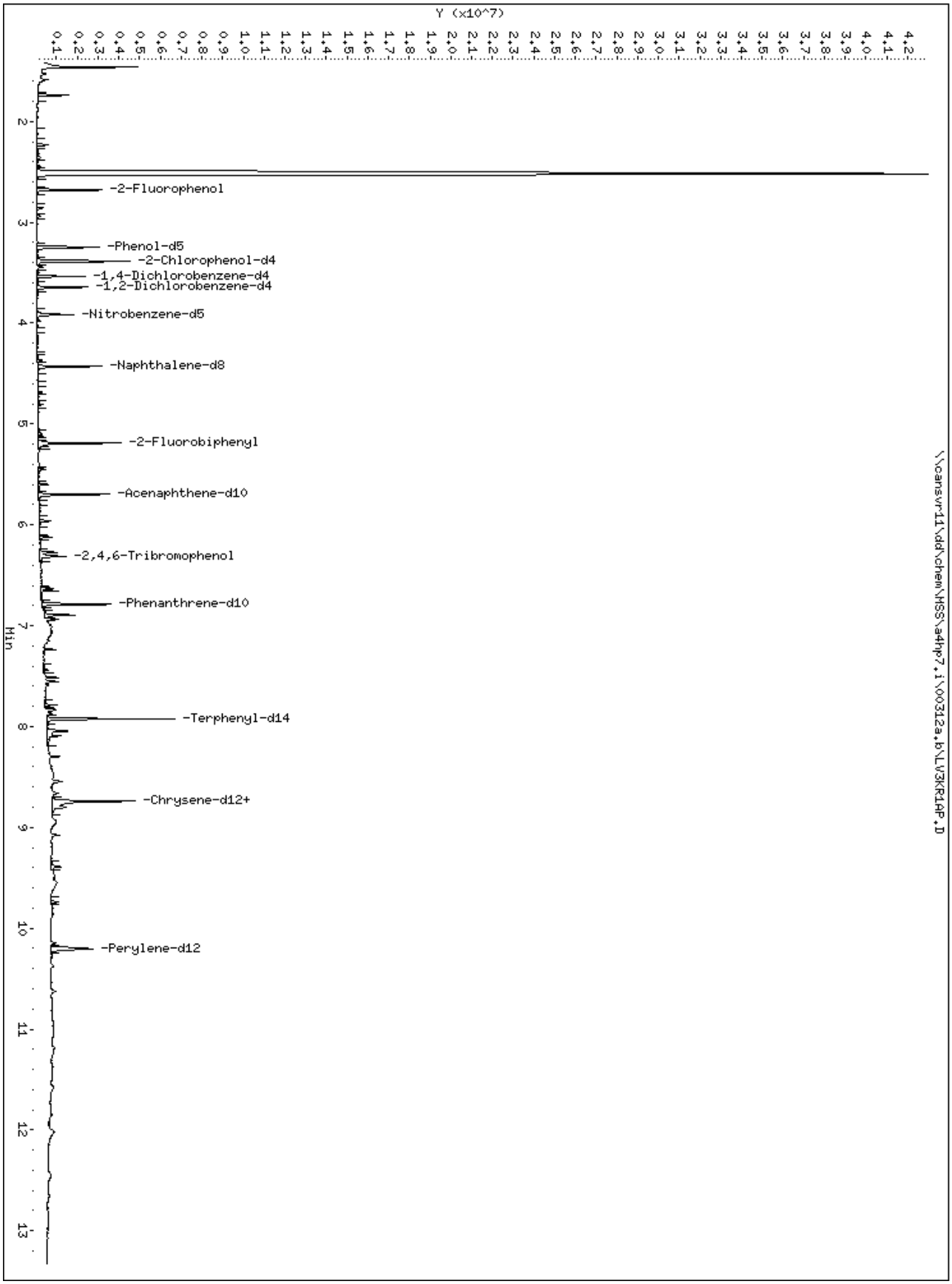
Instrument ID: a4hp7.i
Lab File ID: LV3KR1AP.D
Lab Smp Id: lv3kr1ap
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Misc Info:

Calibration Date: 12-MAR-2010
Calibration Time: 09:31
Client Smp ID: ATASB-008-5134-SO
Level: LOW
Sample Type: SOIL

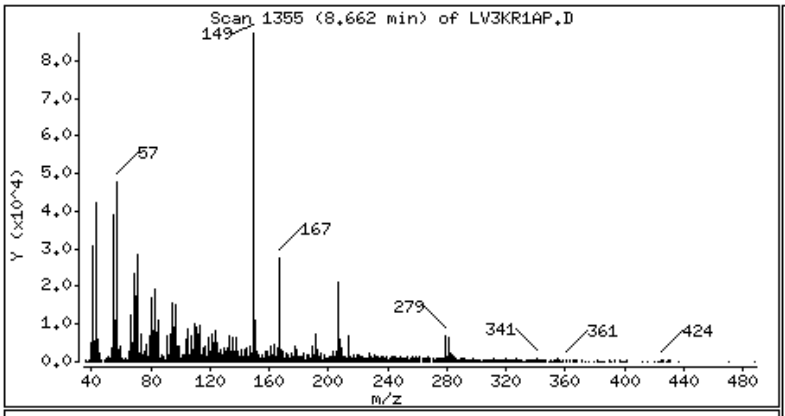
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	406631	203316	813262	315188	-22.49
2 Naphthalene-d8	1724183	862092	3448366	1284334	-25.51
3 Acenaphthene-d10	937660	468830	1875320	734772	-21.64
4 Phenanthrene-d10	1520172	760086	3040344	1182436	-22.22
5 Chrysene-d12	1731041	865521	3462082	1339392	-22.63
6 Perylene-d12	1586026	793013	3172052	1243733	-21.58

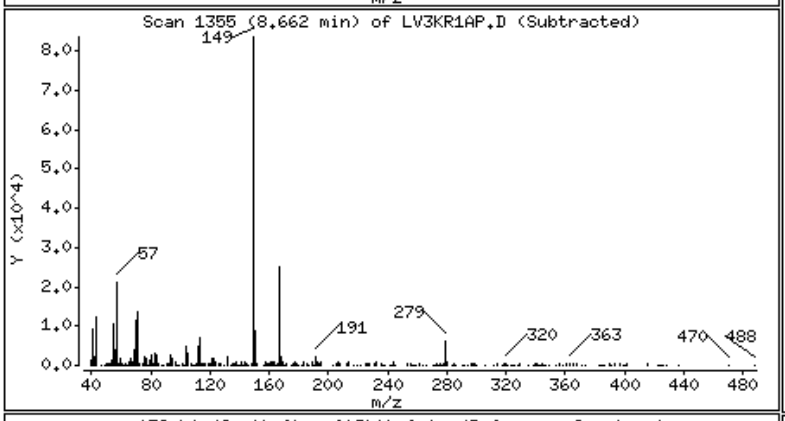
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	-0.00
2 Naphthalene-d8	4.43	3.93	4.93	4.43	0.00
3 Acenaphthene-d10	5.70	5.20	6.20	5.70	-0.00
4 Phenanthrene-d10	6.78	6.28	7.28	6.78	0.00
5 Chrysene-d12	8.75	8.25	9.25	8.74	-0.06
6 Perylene-d12	10.21	9.71	10.71	10.21	-0.00

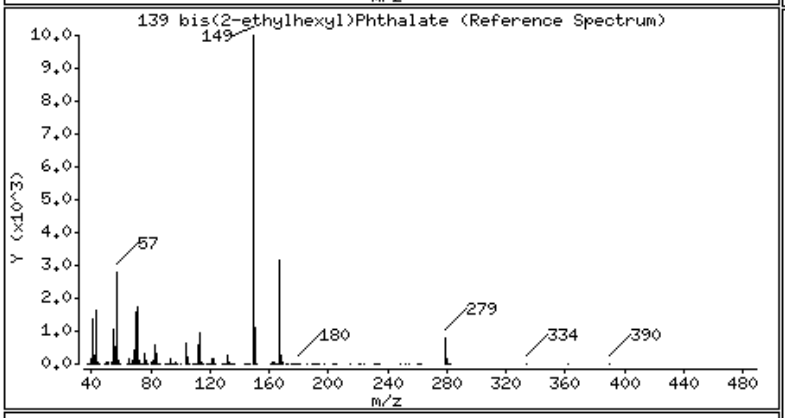
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

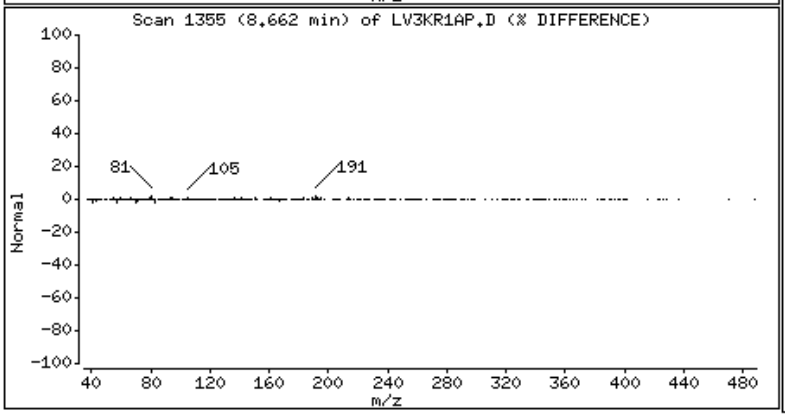

Y (x10^7)
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
Min
\\cansvr11\dd\chem\HSS\a4hp7.i\00312a.b\LW3KR14P.D

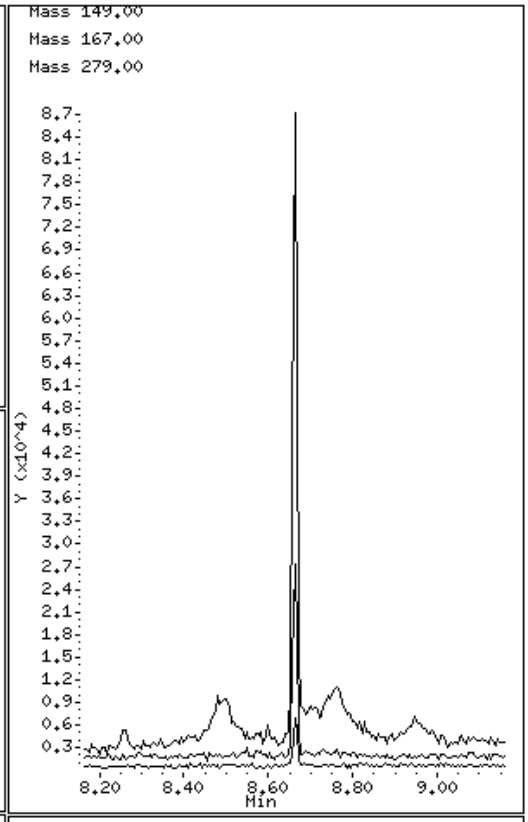
139 bis(2-ethylhexyl)Phthalate

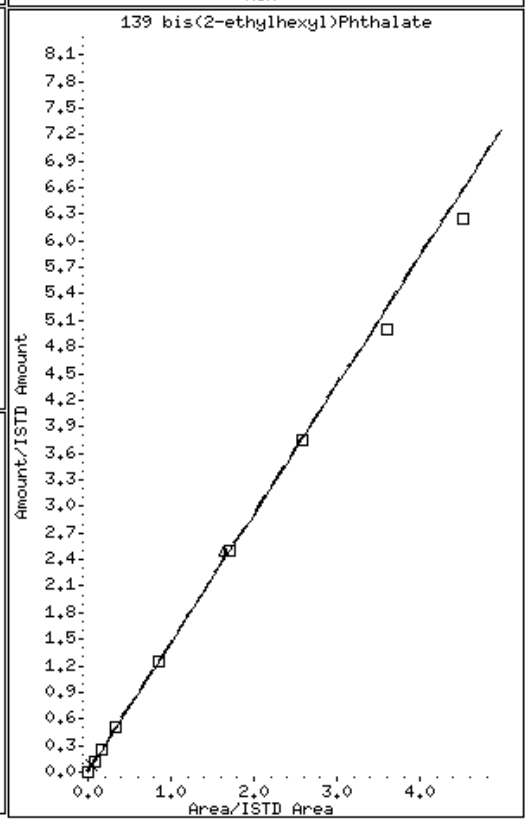












Science Applications International Corp

Client Sample ID: F15SS-036M-5427-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-013 **Work Order #...:** LV3K91A5 **Matrix.....:** SO
Date Sampled...: 02/24/10 14:00 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0060040
Dilution Factor: 2 **Initial Wgt/Vol:** 30.09 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 1.9 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**80**	**14**	**ug/kg**	**6.7**
Acenaphthylene	**22**	**14**	**ug/kg**	**6.7**
Anthracene	**130**	**14**	**ug/kg**	**6.7**
Benzo(a)anthracene	**490**	**14**	**ug/kg**	**6.7**
Benzo(b)fluoranthene	**690**	**14**	**ug/kg**	**6.7**
Benzo(k)fluoranthene	**260**	**14**	**ug/kg**	**6.7**
Benzo(ghi)perylene	**330**	**14**	**ug/kg**	**6.7**
Benzo(a)pyrene	**480**	**14**	**ug/kg**	**6.7**
Chrysene	**540**	**14**	**ug/kg**	**2.2**
Dibenzo(a,h)anthracene	**89**	**14**	**ug/kg**	**6.7**
Fluoranthene	**1200**	**14**	**ug/kg**	**6.7**
Fluorene	**62**	**14**	**ug/kg**	**6.7**
Indeno(1,2,3-cd)pyrene	**300**	**14**	**ug/kg**	**6.7**
Naphthalene	**95**	**14**	**ug/kg**	**6.7**
Phenanthrene	**710**	**14**	**ug/kg**	**6.7**
Pyrene	**850**	**14**	**ug/kg**	**6.7**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	66 DIL	(45 - 105)
2-Fluorophenol	77 DIL	(35 - 105)
Phenol-d5	74 DIL	(40 - 100)
2,4,6-Tribromophenol	75 DIL	(35 - 125)
Nitrobenzene-d5	64 DIL	(35 - 100)
Terphenyl-d14	83 DIL	(30 - 125)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\LV3K91A5.D
Lab Smp Id: lv3k91a5 Client Smp ID: F15SS-036M-5427-SO
Inj Date : 08-MAR-2010 15:04
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3k91a5,00308a.b,8270c-625,1-pah.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 13:55 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 17
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: 1-pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.090	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
* 1	1,4-Dichlorobenzene-d4	152	3.576	3.560	(1.000)	247192	2.00000	(Q)
* 2	Naphthalene-d8	136	4.453	4.453	(1.000)	1082896	2.00000	
* 3	Acenaphthene-d10	164	5.721	5.721	(1.000)	684460	2.00000	
* 4	Phenanthrene-d10	188	6.807	6.807	(1.000)	1185424	2.00000	
* 5	Chrysene-d12	240	8.775	8.769	(1.000)	1464692	2.00000	
* 6	Perylene-d12	264	10.256	10.235	(1.000)	1380702	2.00000	
51	Naphthalene	128	4.469	4.469	(1.004)	175162	0.34983	93.008
62	2-Methylnaphthalene	142	4.961	4.961	(1.114)	176825	0.64869	172.47
63	1-Methylnaphthalene	142	5.031	5.031	(1.130)	136713	0.43616	115.96
70	2-Chloronaphthalene	162	Compound Not Detected.					
79	Acenaphthylene	152	5.625	5.619	(0.983)	46208	0.08110	21.563
82	Acenaphthene	153	5.748	5.742	(1.005)	108653	0.29652	78.836(Q)
86	Dibenzofuran	168	5.871	5.870	(1.026)	102298	0.20782	55.252
94	Fluorene	166	6.117	6.117	(1.069)	95779	0.22897	60.877
115	Phenanthrene	178	6.828	6.823	(1.003)	1687248	2.62011	696.60
116	Anthracene	178	6.865	6.860	(1.009)	307340	0.47382	125.97
123	Fluoranthene	202	7.705	7.689	(1.132)	2947570	4.46672	1187.6
125	Pyrene	202	7.871	7.866	(0.897)	2380308	3.15229	838.10

136 Benzo(a)Anthracene	228	8.764	8.759 (0.999)	1304530	1.79949	478.43
137 Chrysene	228	8.796	8.791 (1.002)	1357553	1.98451	527.62

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
141 Benzo(b)fluoranthene	252	9.791	9.780	(0.955)	1804235	2.54235	675.93
142 Benzo(k)fluoranthene	252	9.818	9.807	(0.957)	735010	0.97335	258.78(QM)
146 Benzo(a)pyrene	252	10.187	10.176	(0.993)	1196524	1.75630	466.94
149 Indeno(1,2,3-cd)pyrene	276	11.882	11.861	(1.159)	837601	1.10016	292.50
150 Dibenz(a,h)anthracene	278	11.893	11.877	(1.160)	210749	0.32883	87.426
151 Benzo(g,h,i)perylene	276	12.396	12.353	(1.209)	766350	1.20630	320.72
$ 154 Nitrobenzene-d5	82	3.945	3.940	(0.886)	259876	1.58835	422.29
$ 155 2-Fluorobiphenyl	172	5.207	5.207	(0.910)	656015	1.66136	441.70
$ 156 Terphenyl-d14	244	7.946	7.940	(0.906)	951321	2.06755	549.70
$ 157 Phenol-d5	99	3.303	3.260	(0.924)	511955	2.76444	734.98
$ 158 2-Fluorophenol	112	2.833	2.688	(0.792)	402645	2.87250	763.71
$ 159 2,4,6-Tribromophenol	330	6.293	6.288	(1.100)	130418	2.82343	750.66
$ 186 2-Chlorophenol-d4	132	3.437	3.405	(0.961)	437610	2.98923	794.74
$ 187 1,2-Dichlorobenzene-d4	152	3.683	3.667	(1.030)	145645	1.47450	392.02

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

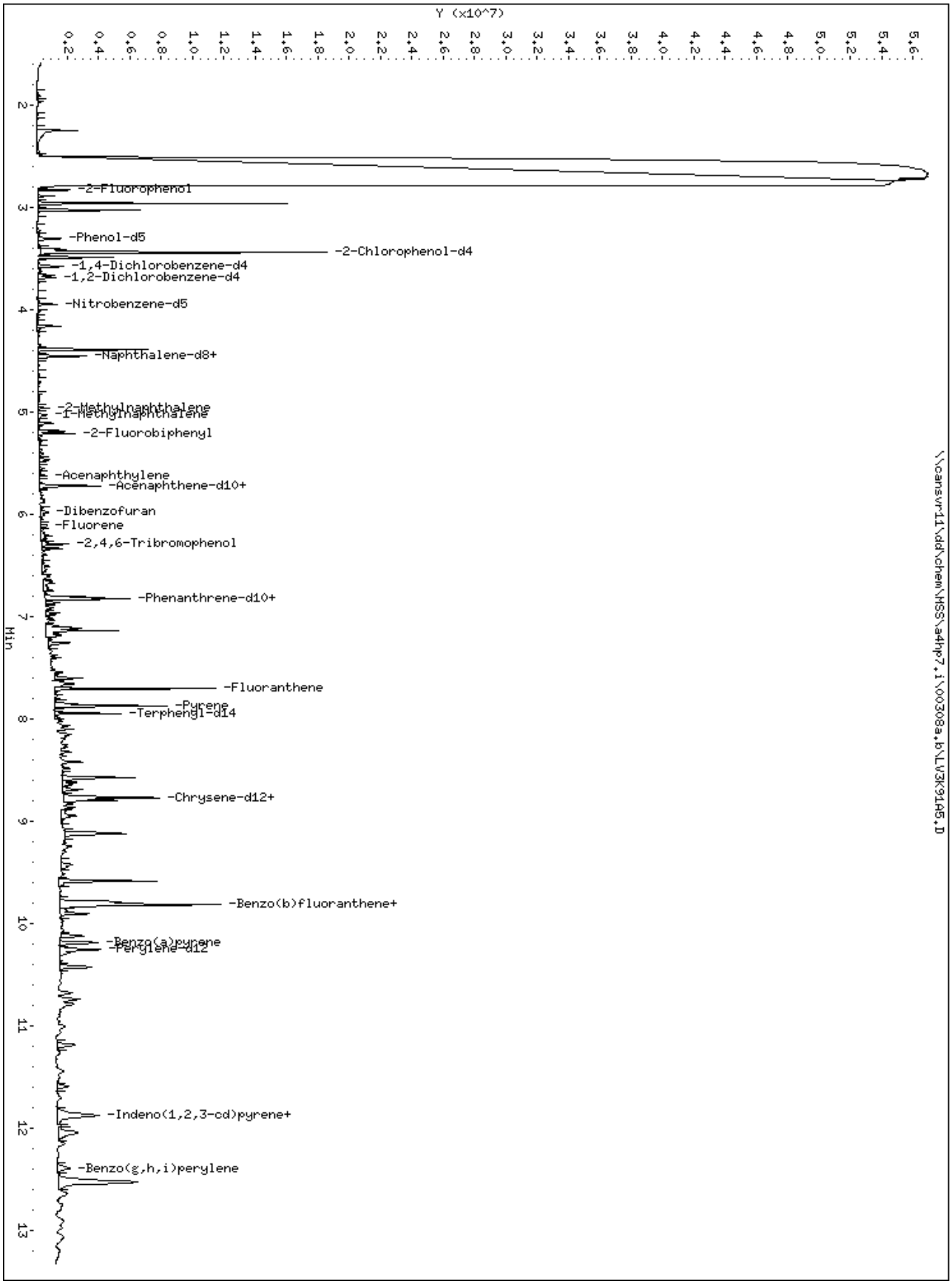
Instrument ID: a4hp7.i
Lab File ID: LV3K91A5.D
Lab Smp Id: lv3k91a5
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 10:16
Client Smp ID: F15SS-036M-5427-SO
Level: LOW
Sample Type: SOIL

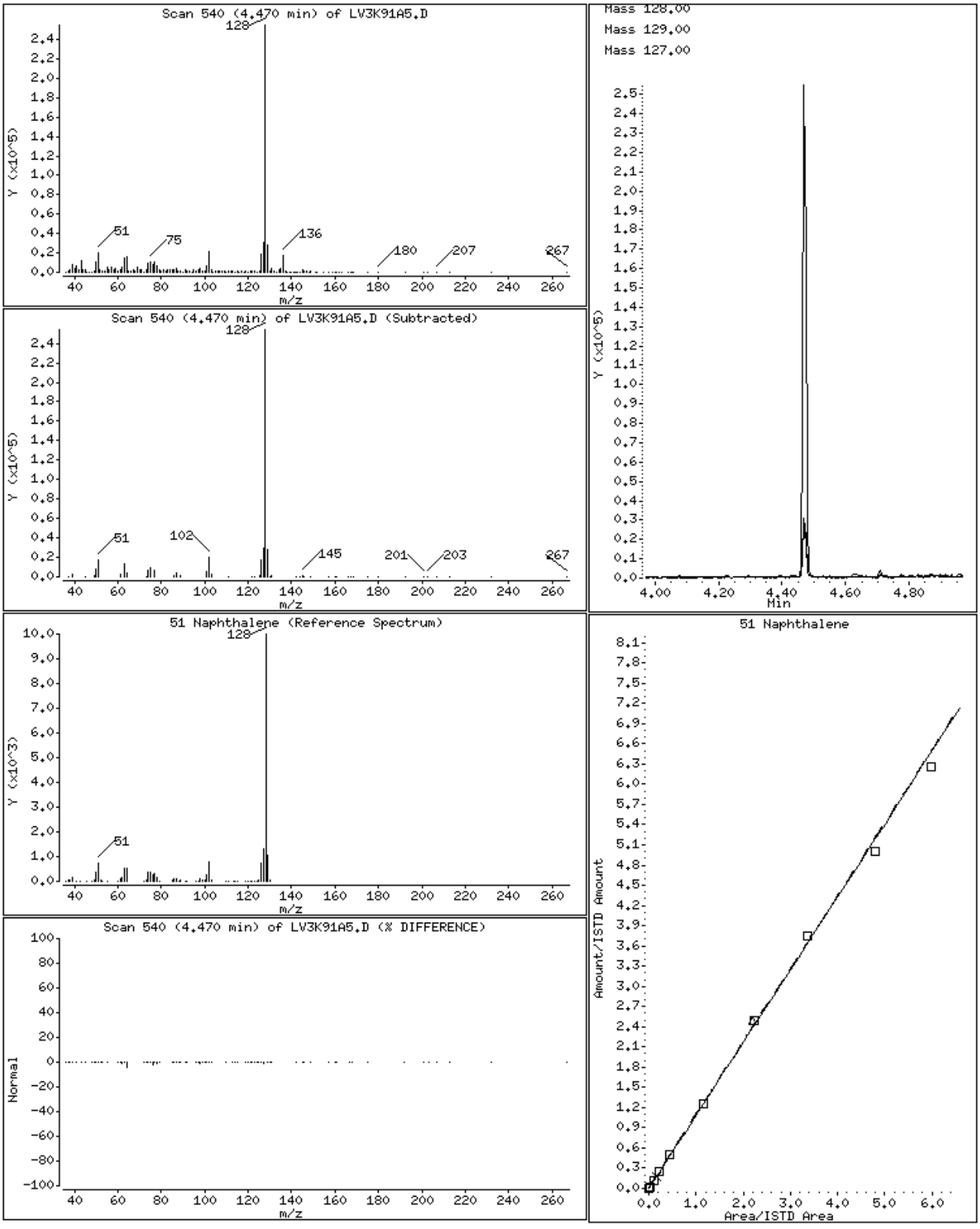
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	388613	194307	777226	247192	-36.39
2 Naphthalene-d8	1628032	814016	3256064	1082896	-33.48
3 Acenaphthene-d10	875709	437855	1751418	684460	-21.84
4 Phenanthrene-d10	1398875	699438	2797750	1185424	-15.26
5 Chrysene-d12	1597704	798852	3195408	1464692	-8.33
6 Perylene-d12	1473841	736921	2947682	1380702	-6.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.56	3.06	4.06	3.58	0.45
2 Naphthalene-d8	4.45	3.95	4.95	4.45	0.00
3 Acenaphthene-d10	5.72	5.22	6.22	5.72	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.77	8.27	9.27	8.78	0.06
6 Perylene-d12	10.24	9.74	10.74	10.26	0.21

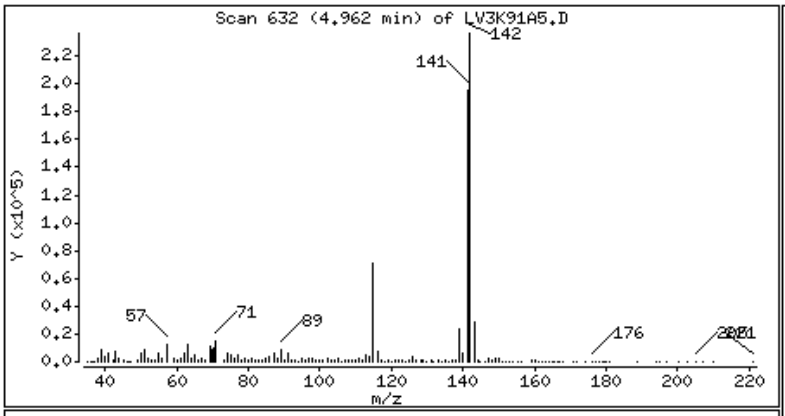
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

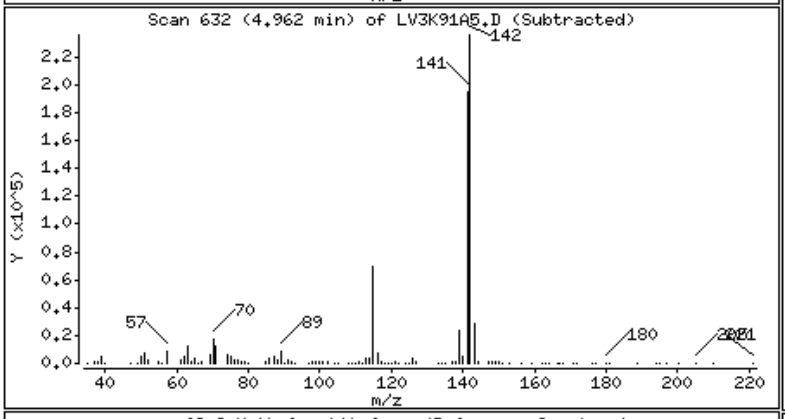

Y (x10^7)
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6
Min
2
3
4
5
6
7
8
9
10
11
12
13
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8+
-2-Methylnaphthalene
-1-Methylnaphthalene
-2-Fluorobiphenyl
-Acenaphthylene
-Acenaphthene-d10+
-Dibenzofuran
-Fluorene
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-Fluoranthene
-Pyrene
-Terphenyl-d14
-Chrysene-d12+
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\cansvr11\dd\chem\HSS\a4hp7.i\00308a.b\LW3K9105.D

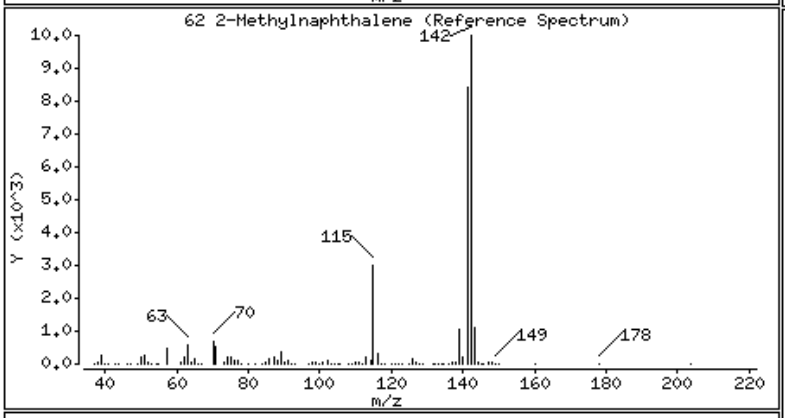
51 Naphthalene

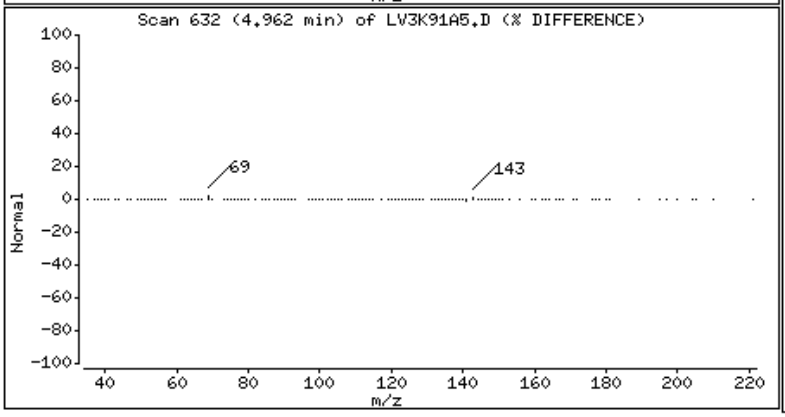


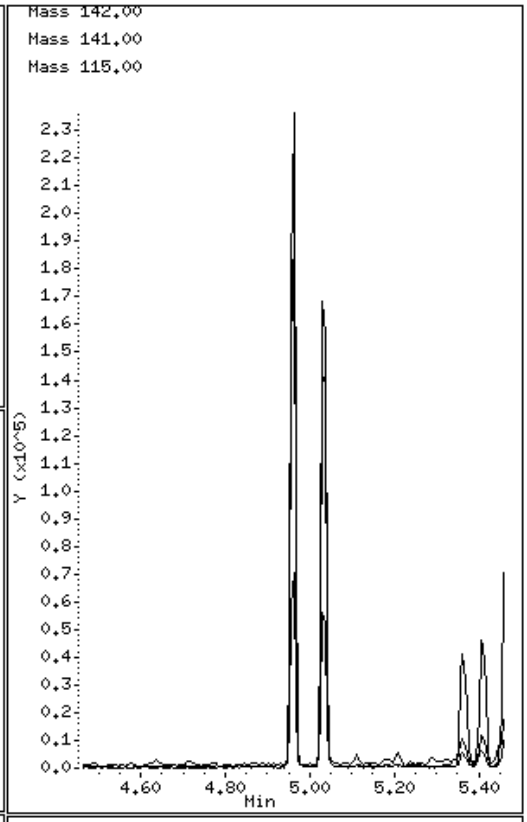
62 2-Methylnaphthalene

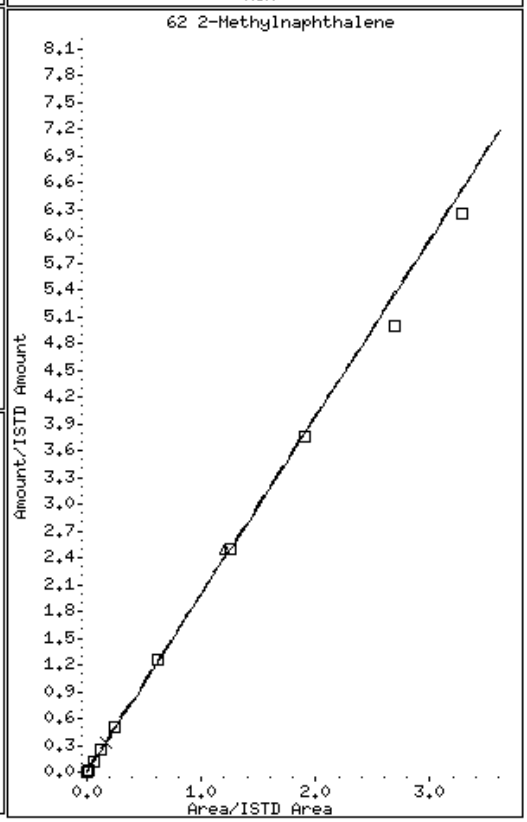




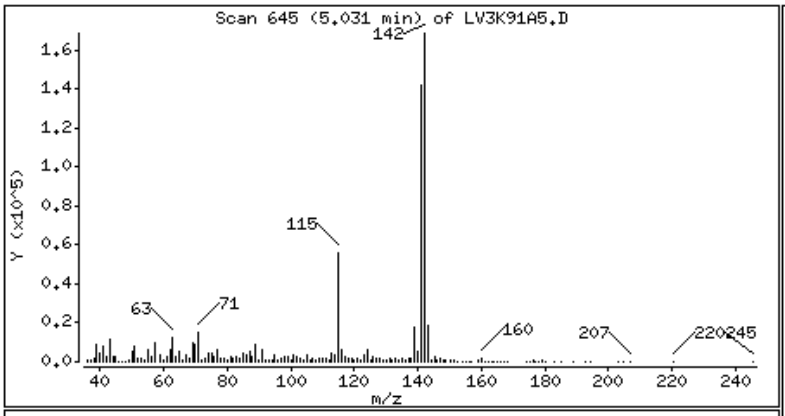


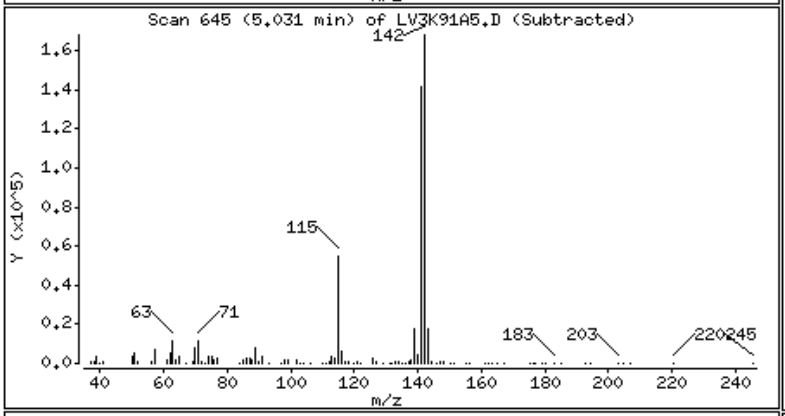


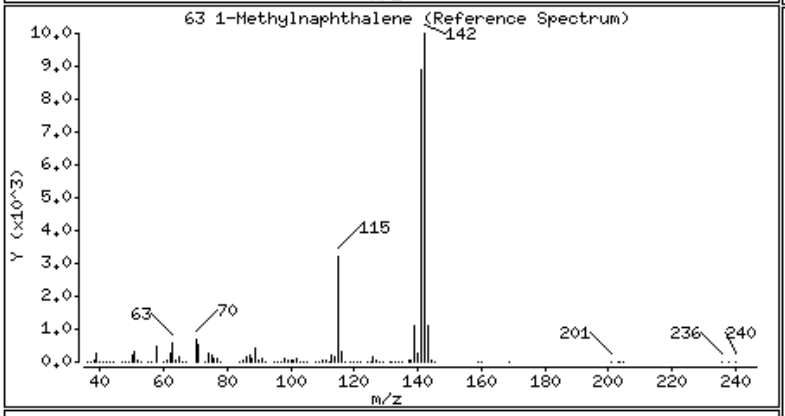


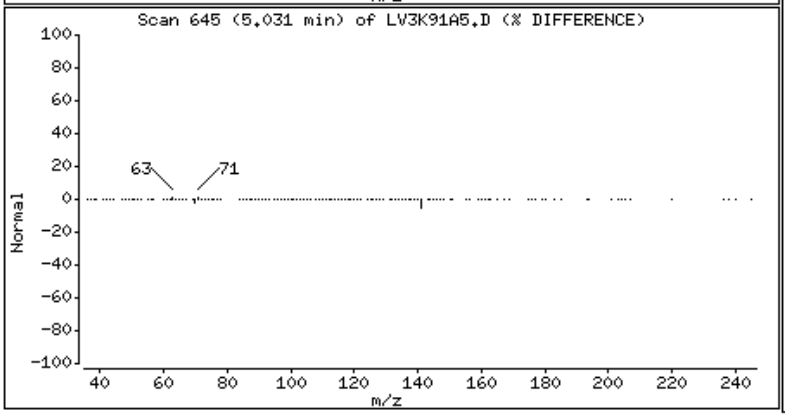


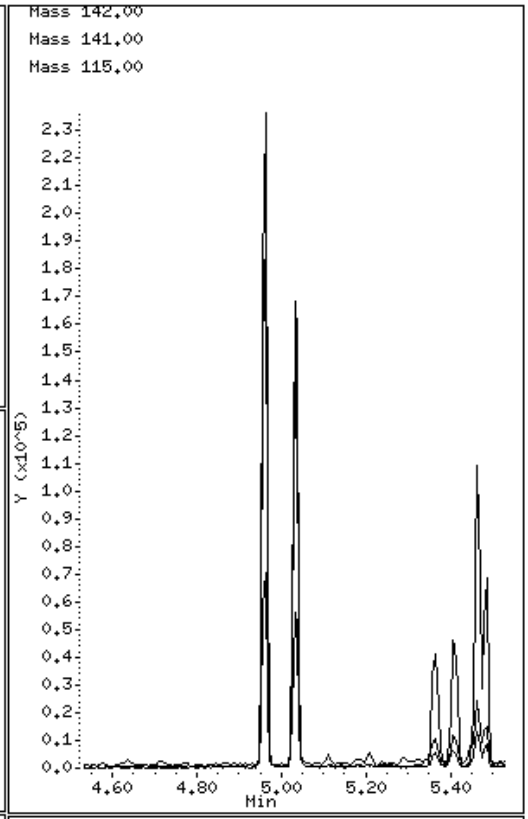
63 1-Methylnaphthalene

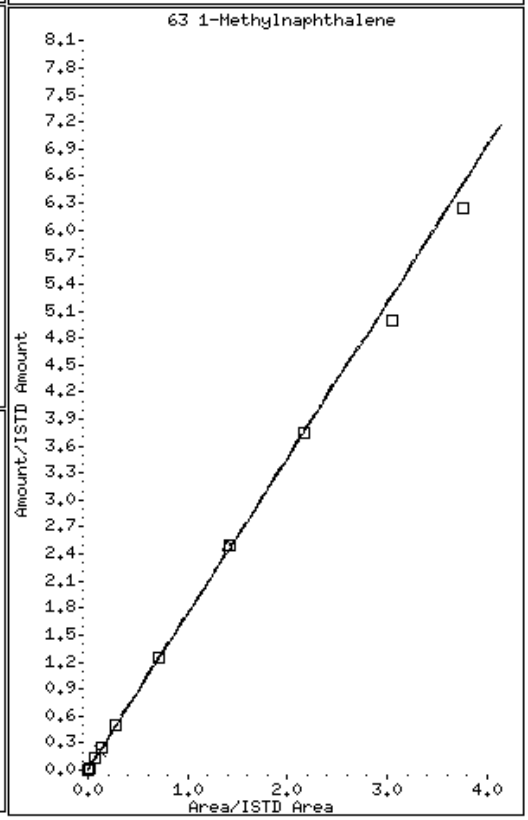




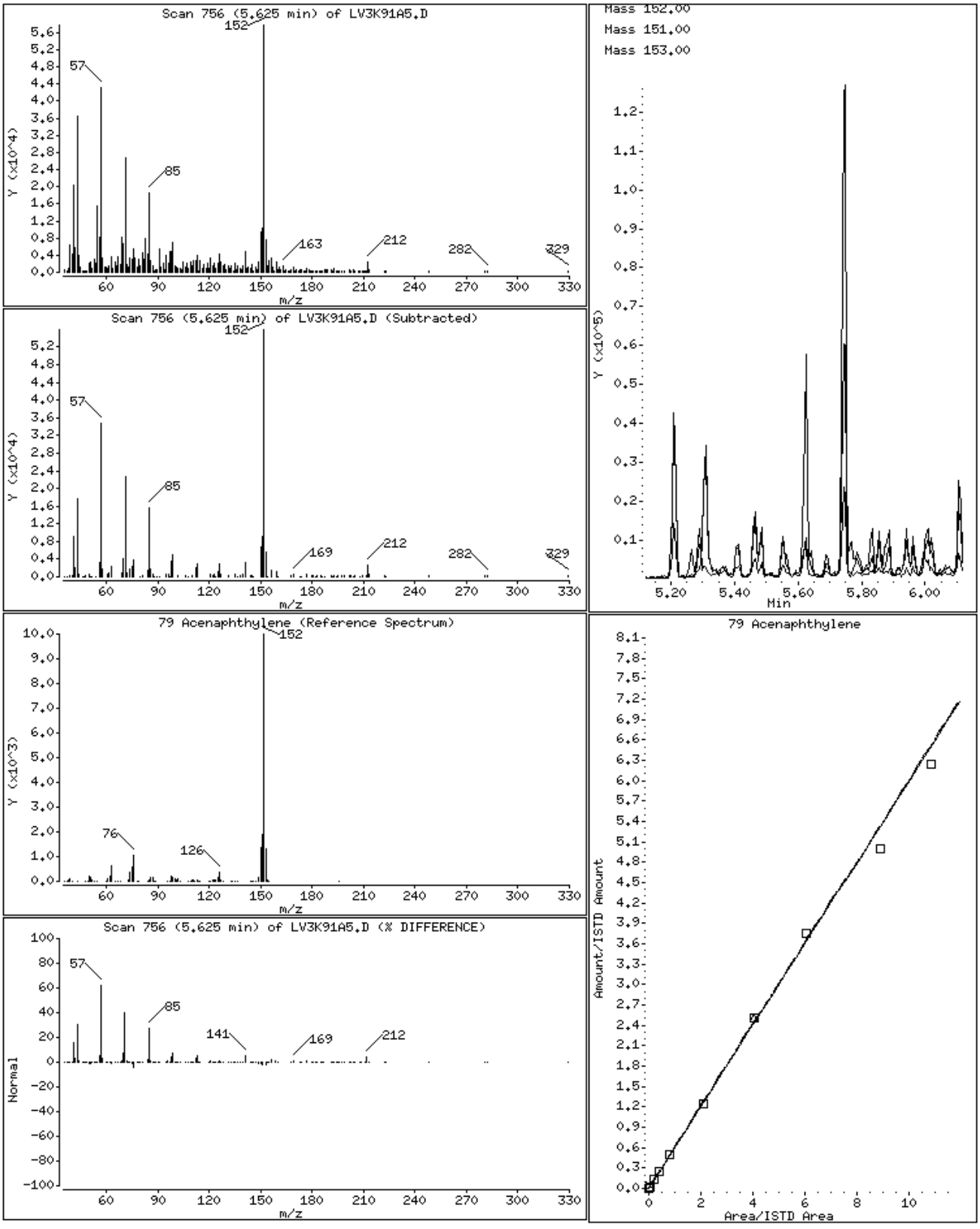




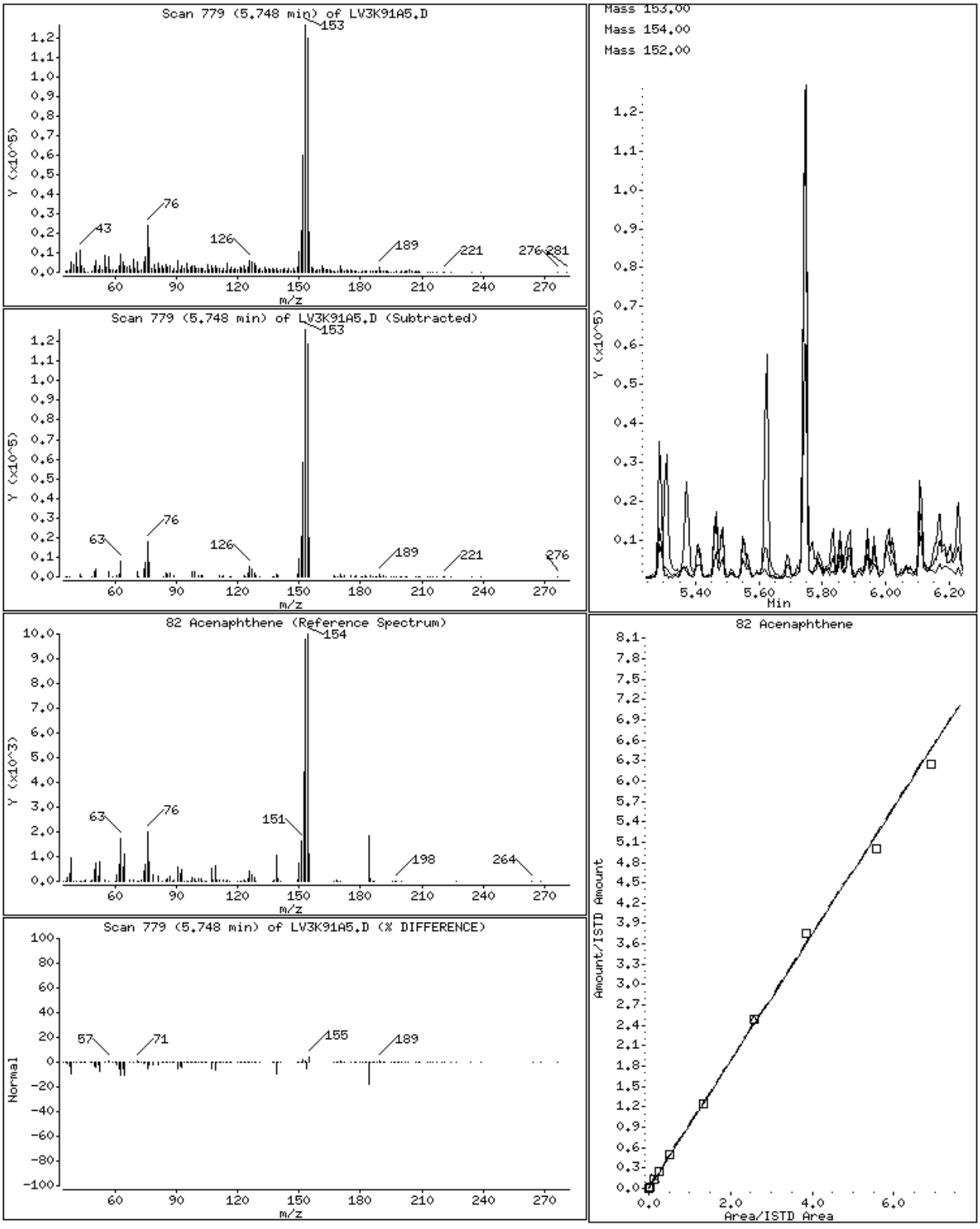




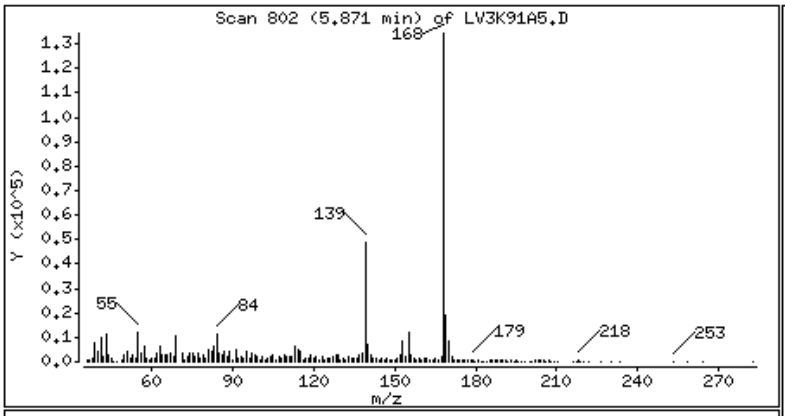
79 Acenaphthylene

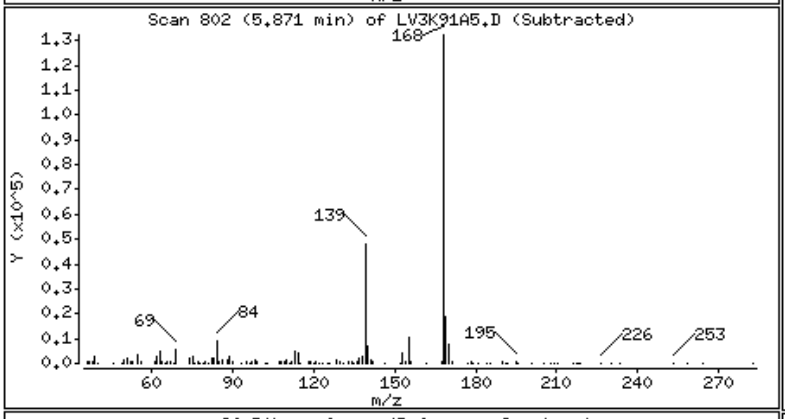


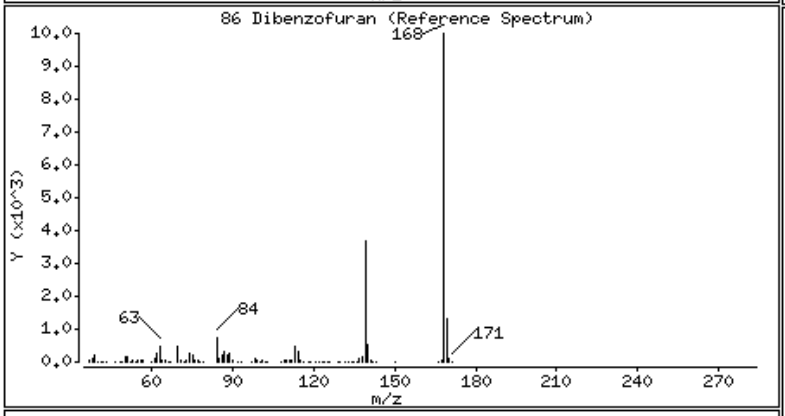
82 Acenaphthene

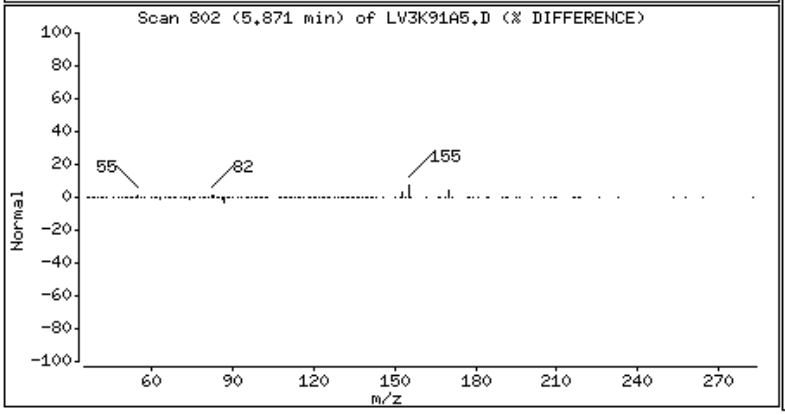


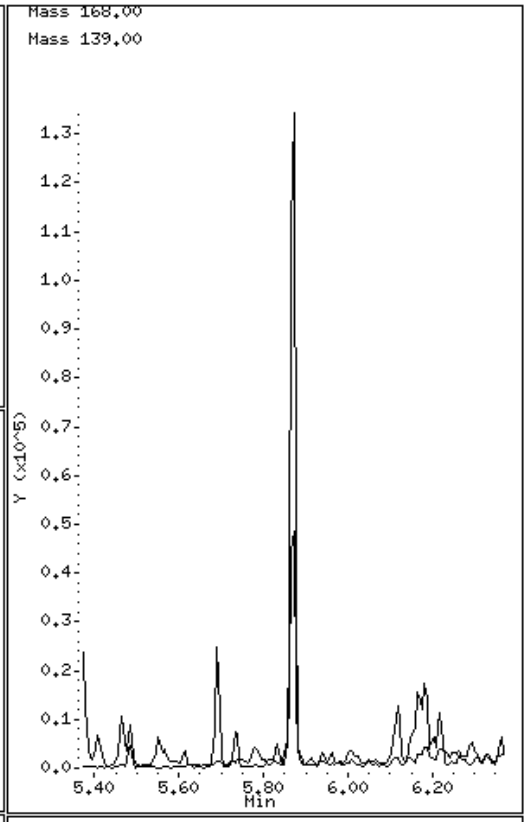
86 Dibenzofuran

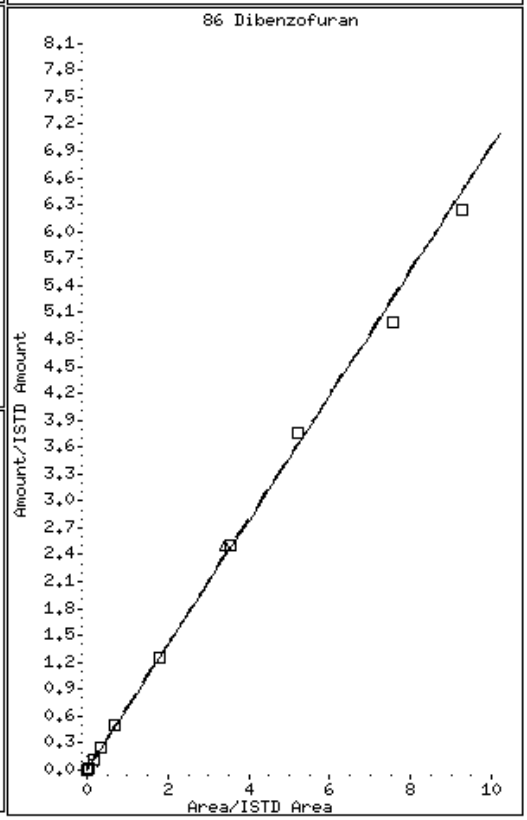




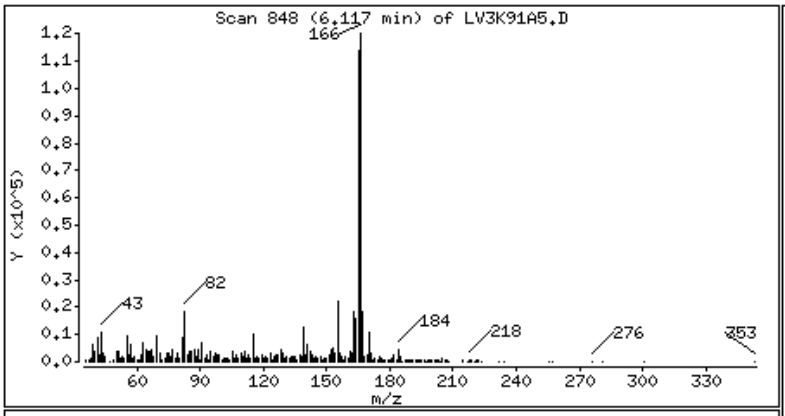


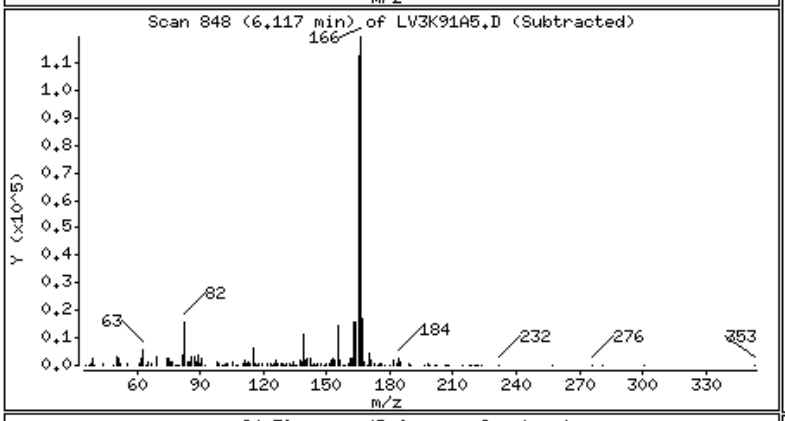


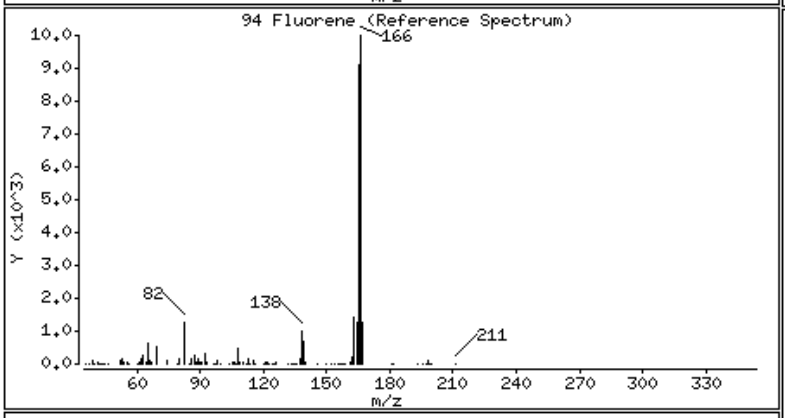


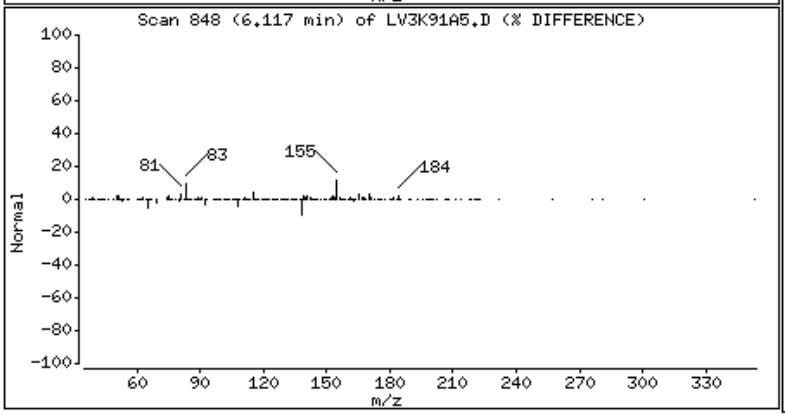


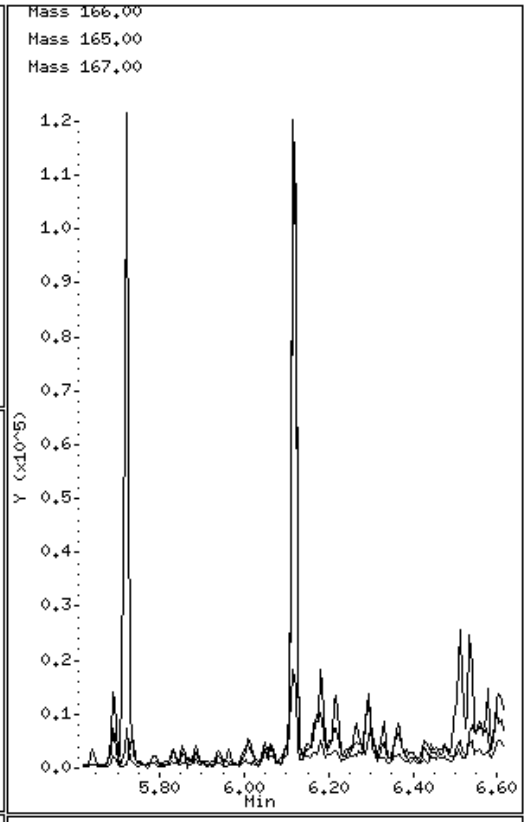
94 Fluorene

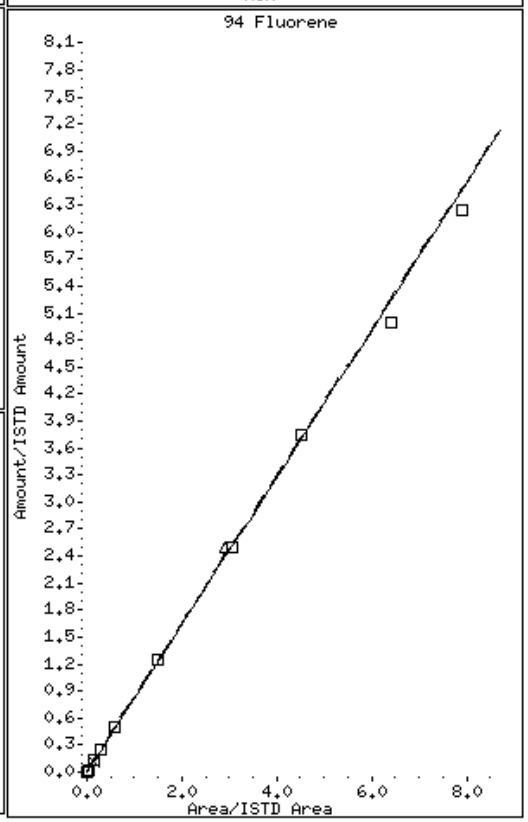

Scan 848 (6.117 min) of LV3K91A5.D
Y (x10^5)
m/z
166
82
43
184
218
276
253


Scan 848 (6.117 min) of LV3K91A5.D (Subtracted)
Y (x10^5)
m/z
166
82
63
184
232
276
253

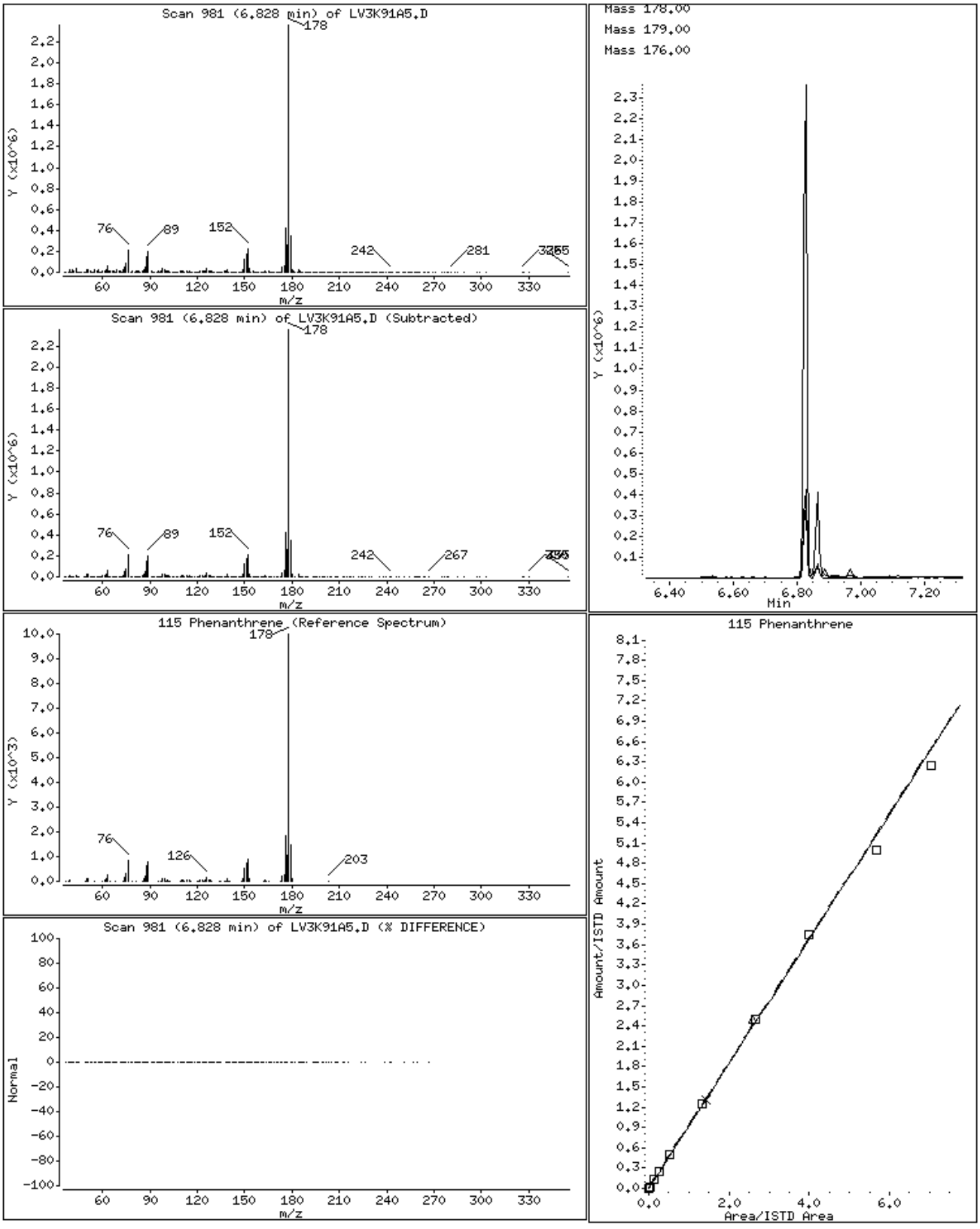

94 Fluorene (Reference Spectrum)
Y (x10^3)
m/z
166
82
138
211


Scan 848 (6.117 min) of LV3K91A5.D (% DIFFERENCE)
Normal
m/z
81
83
155
184

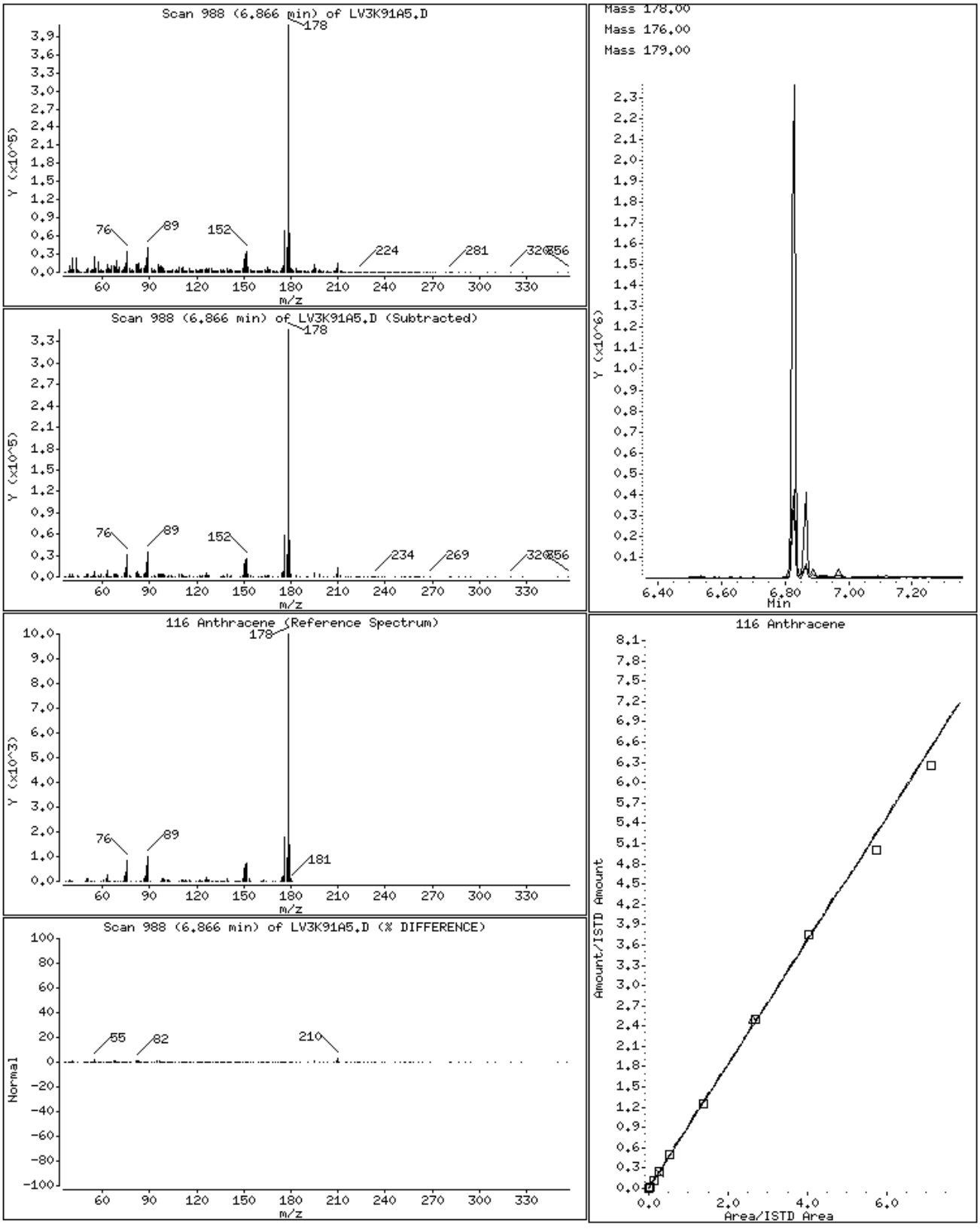

Mass 166.00
Mass 165.00
Mass 167.00
Y (x10^5)
Min


94 Fluorene
Amount/ISTD Amount
Area/ISTD Area

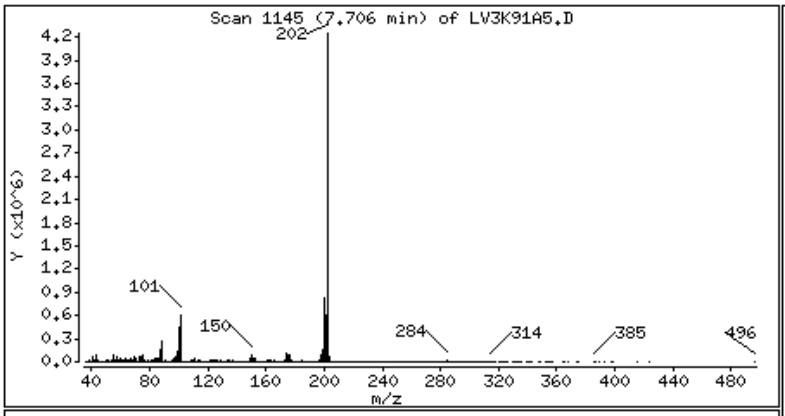
115 Phenanthrene

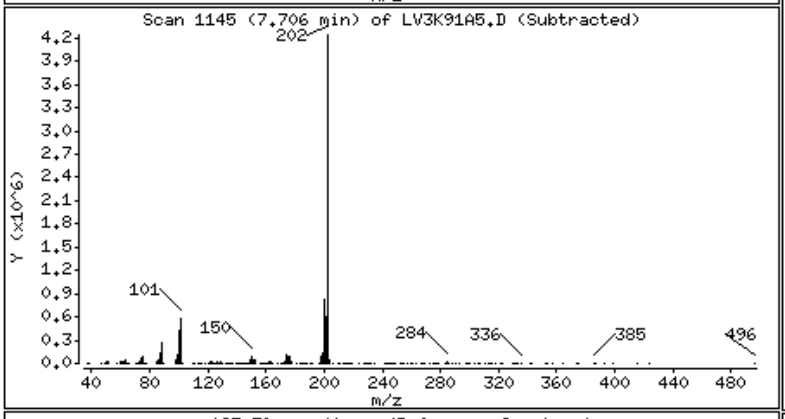


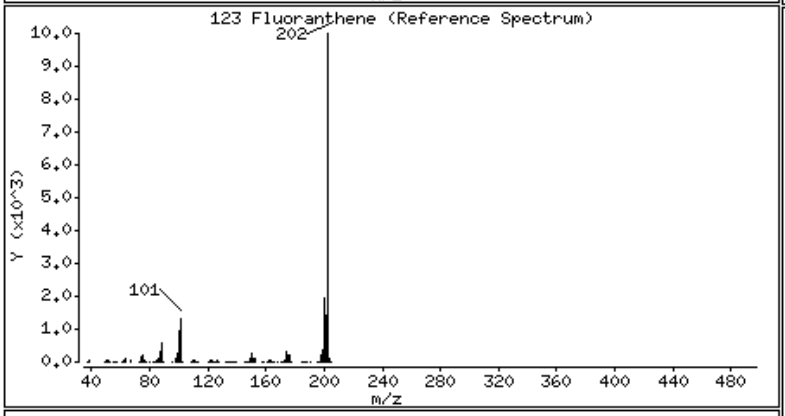
116 Anthracene

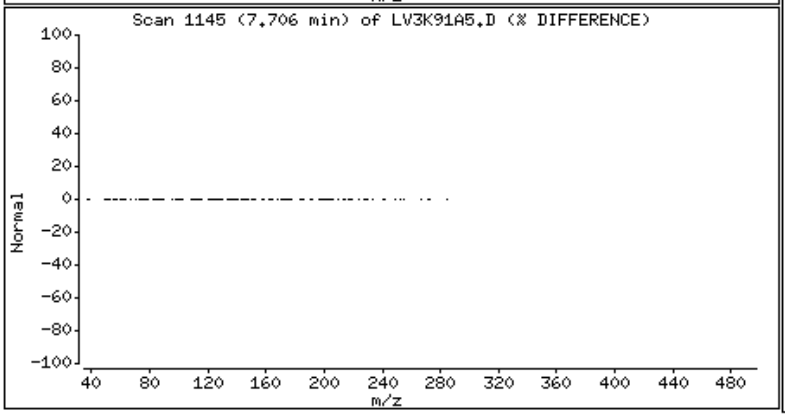


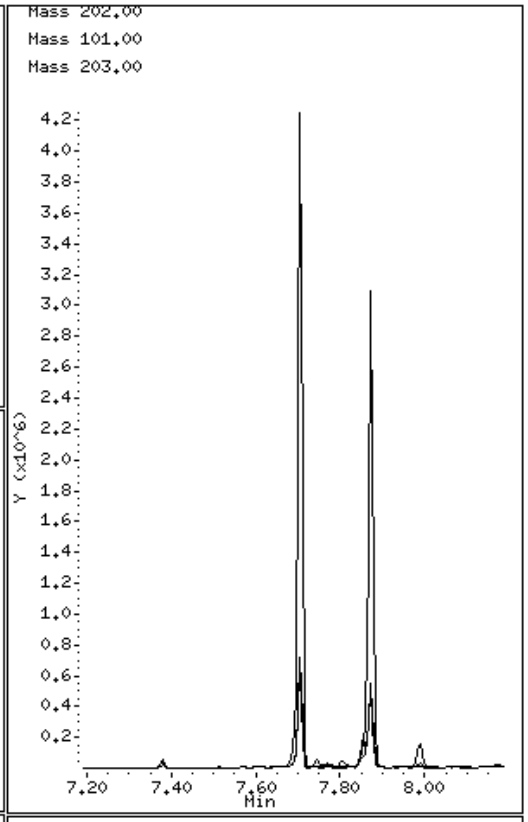
123 Fluoranthene

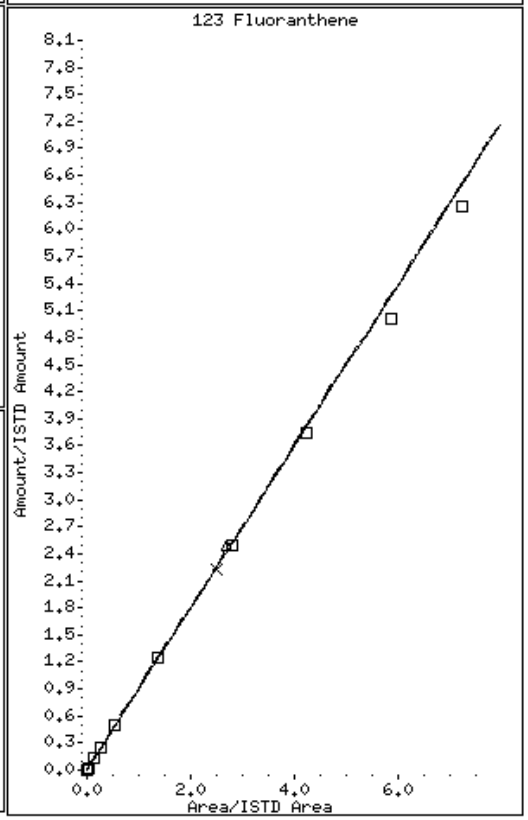




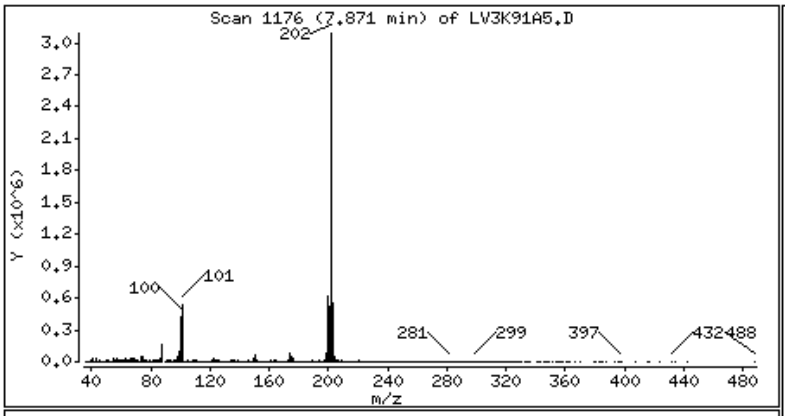


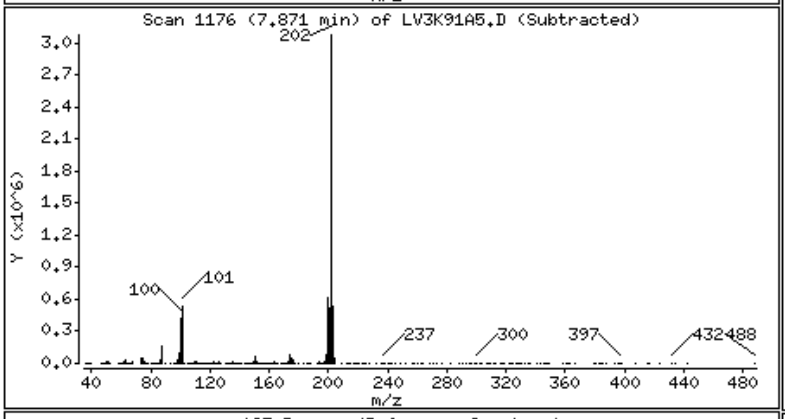


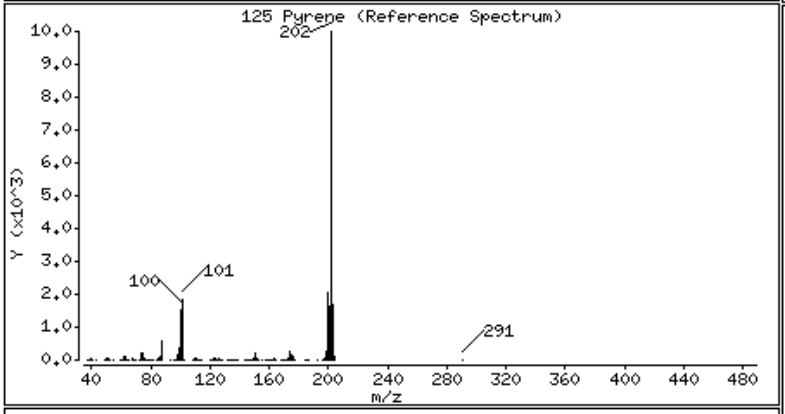


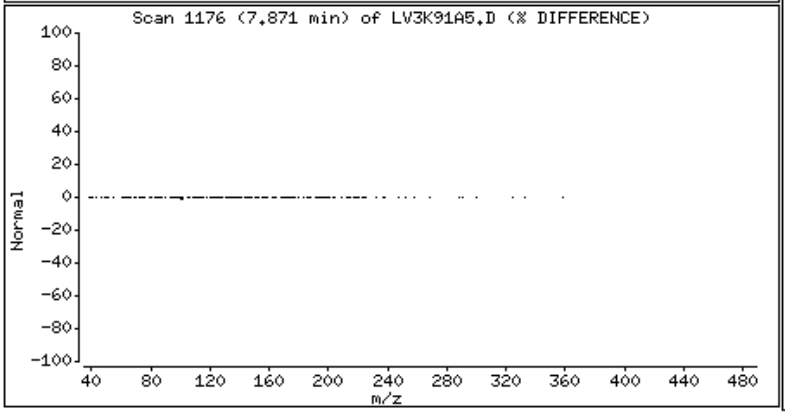


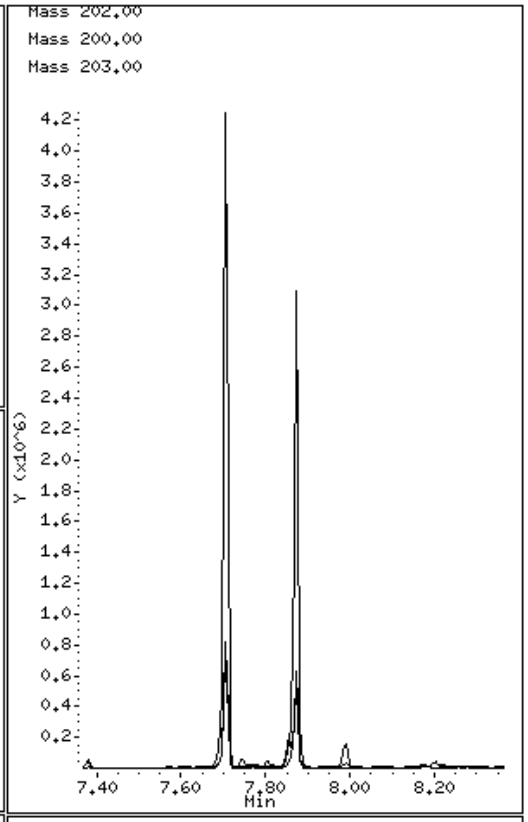
125 Pyrene

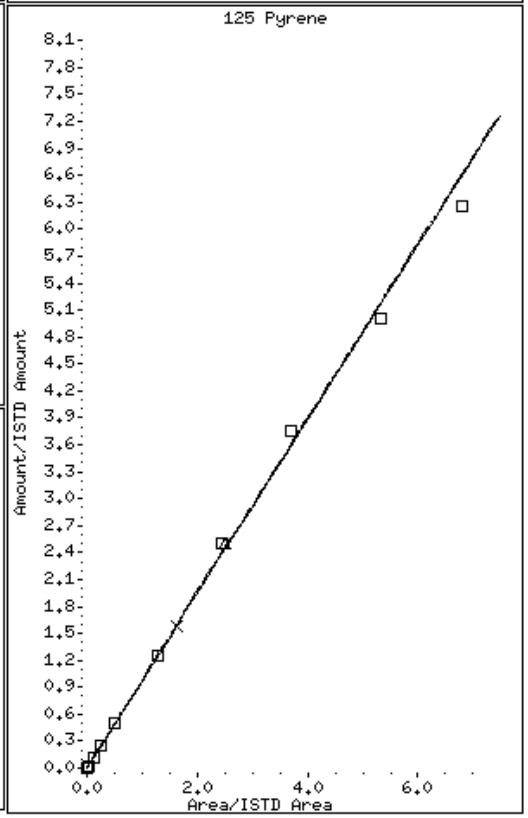

Scan 1176 (7.871 min) of LW3K91A5.D
Y (x10^6)
m/z
202
100
101
281
299
397
432488


Scan 1176 (7.871 min) of LW3K91A5.D (Subtracted)
Y (x10^6)
m/z
202
100
101
237
300
397
432488

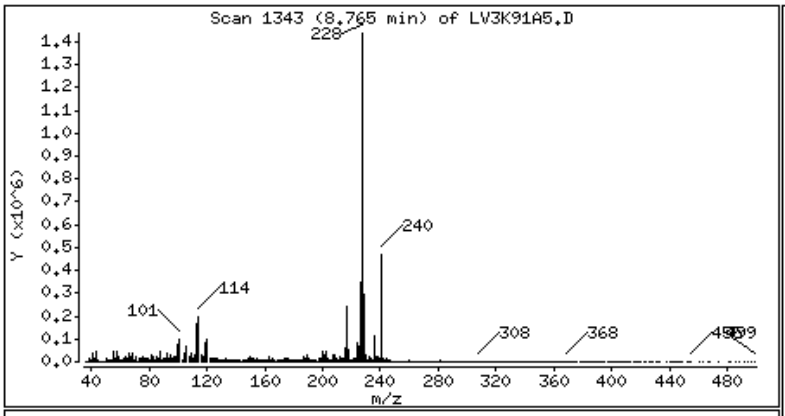

125 Pyrene (Reference Spectrum)
Y (x10^3)
m/z
202
100
101
291

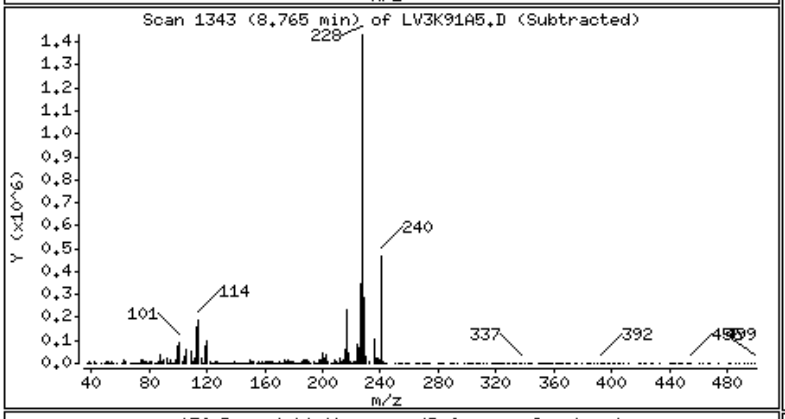

Scan 1176 (7.871 min) of LW3K91A5.D (% DIFFERENCE)
Normal
m/z

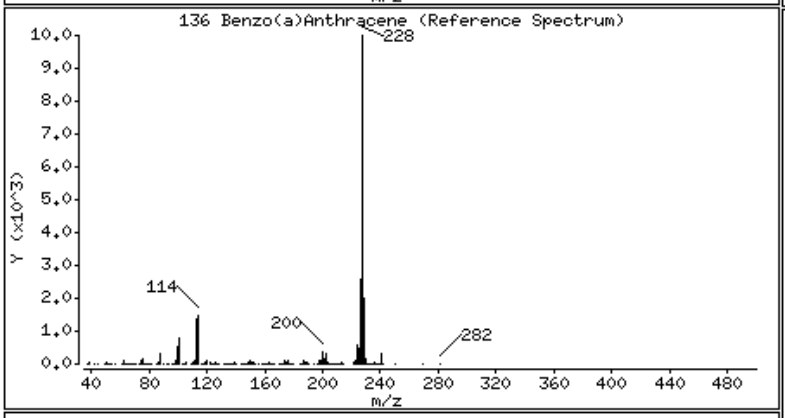

Mass 202.00
Mass 200.00
Mass 203.00
Y (x10^6)
Min

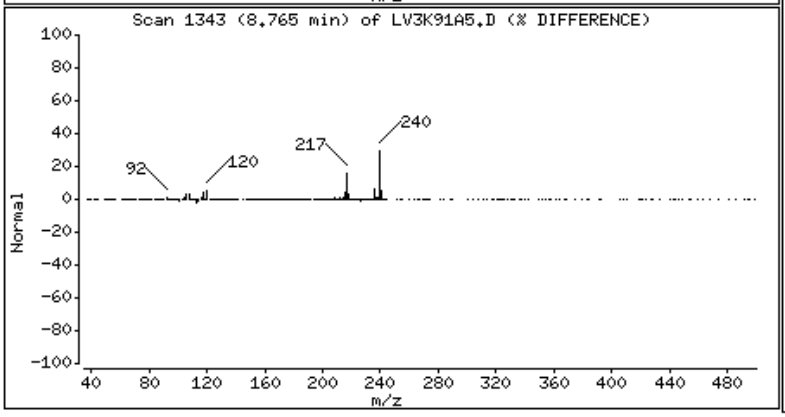

125 Pyrene
Amount/ISTD Amount
Area/ISTD Area

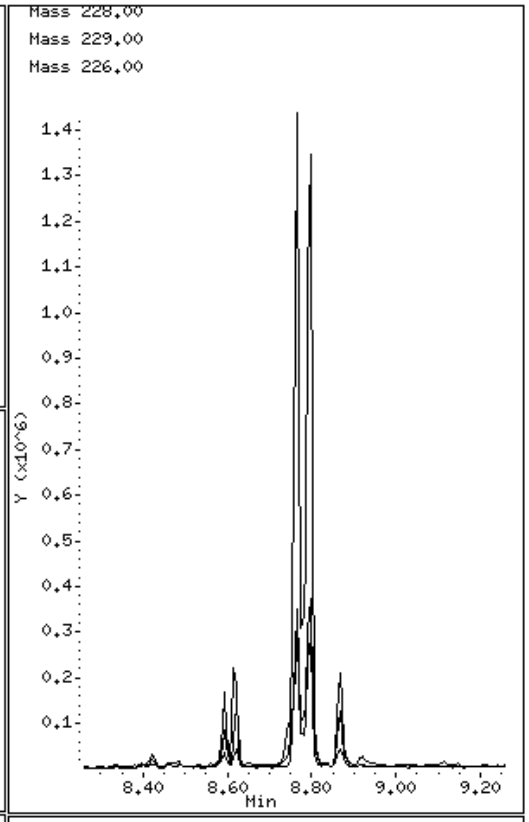
136 Benzo(a)Anthracene

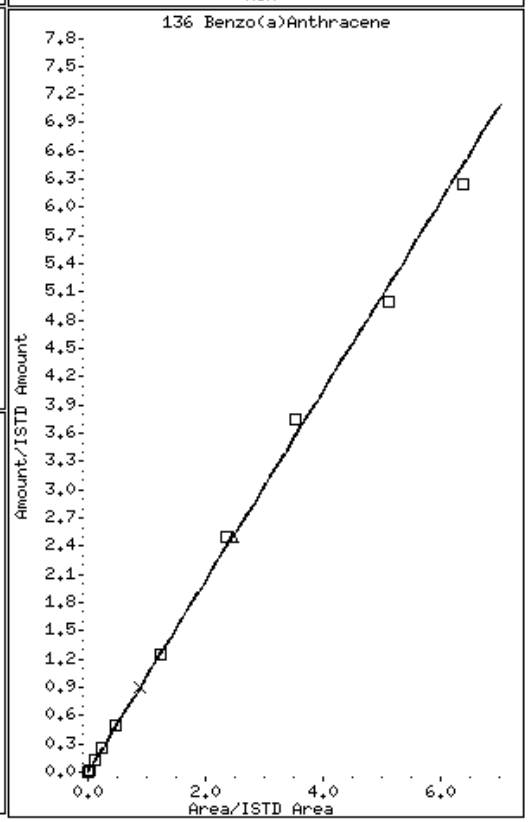




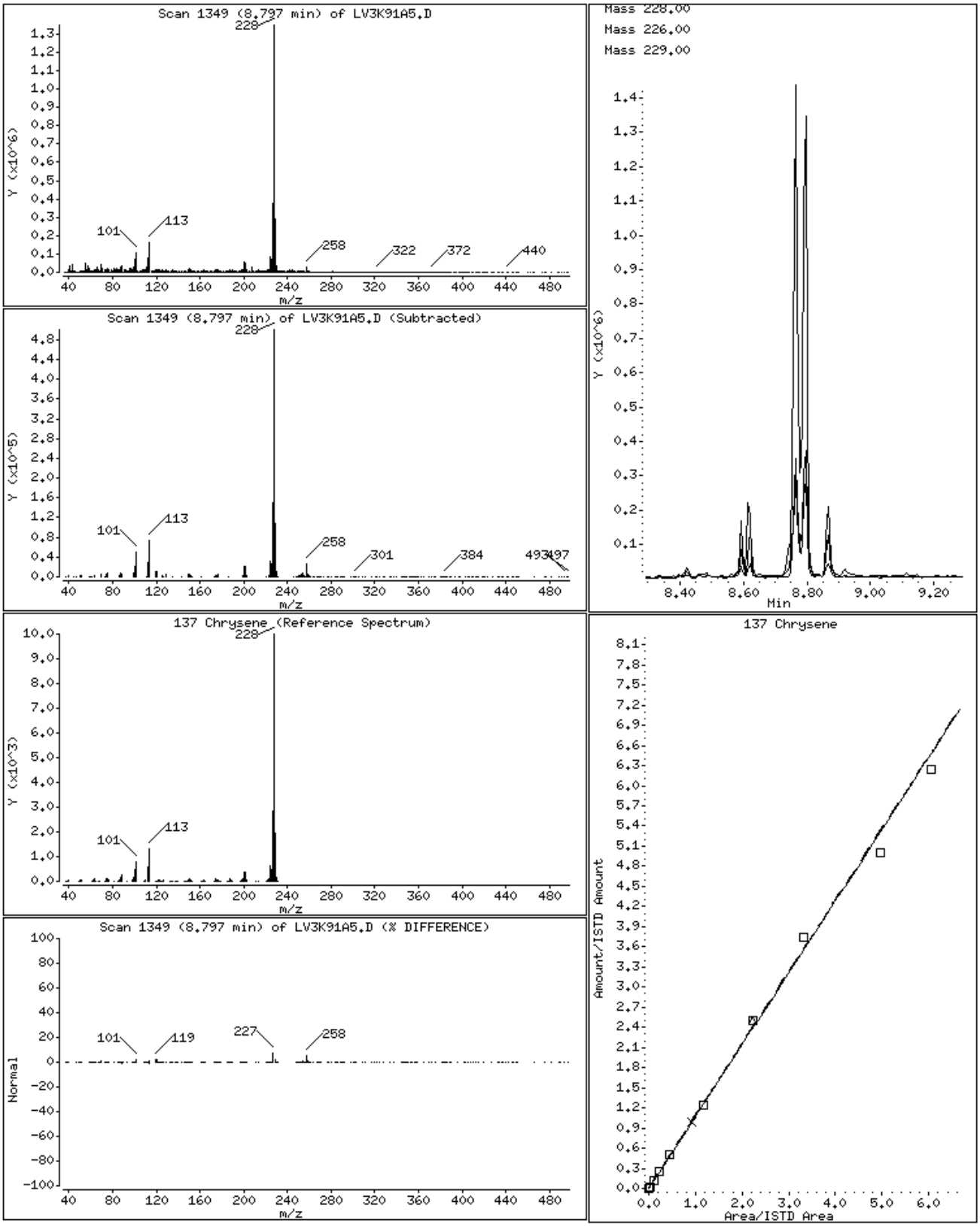




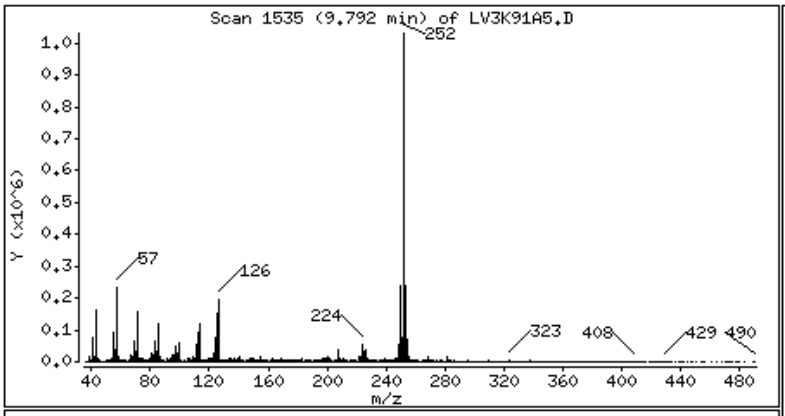


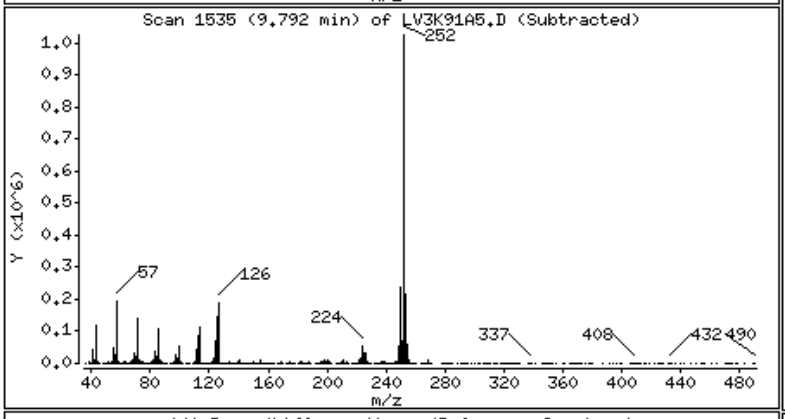


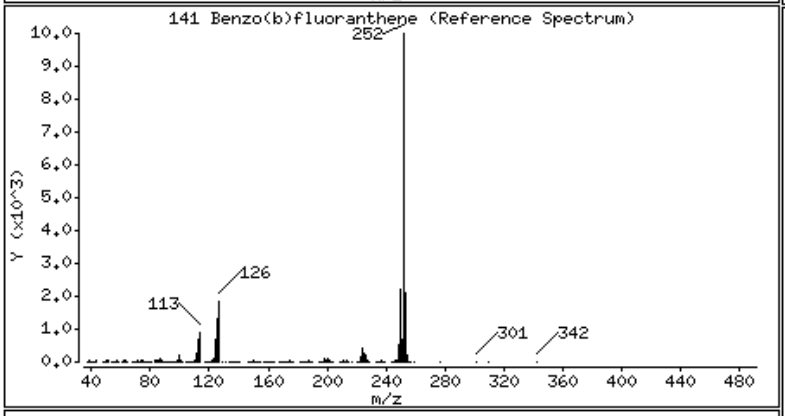
137 Chrysene

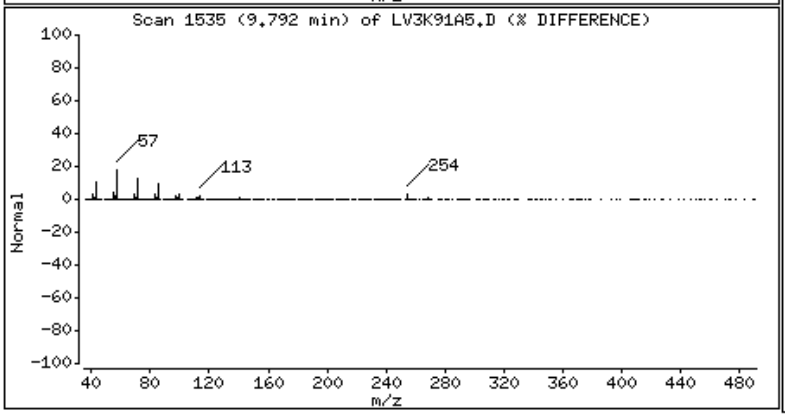


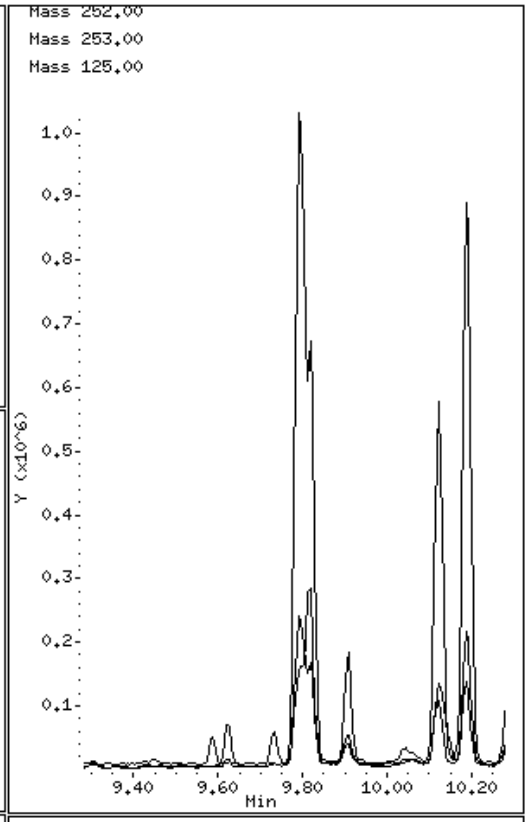
141 Benzo(b)fluoranthene

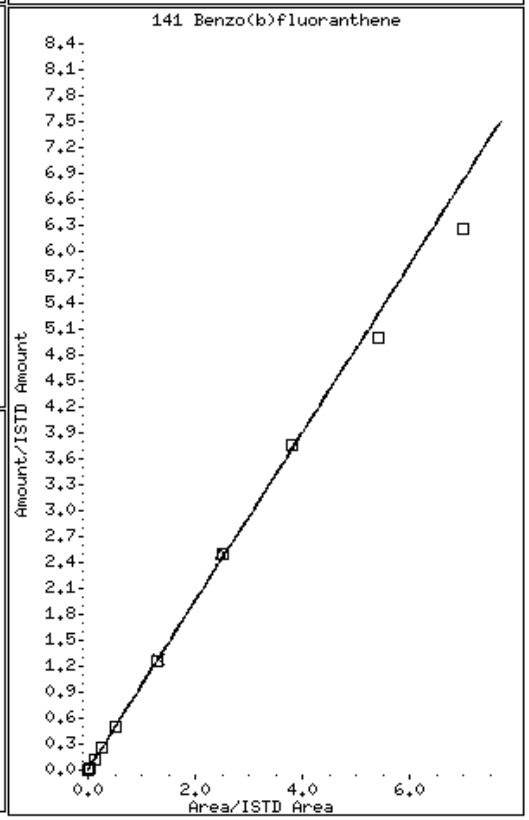




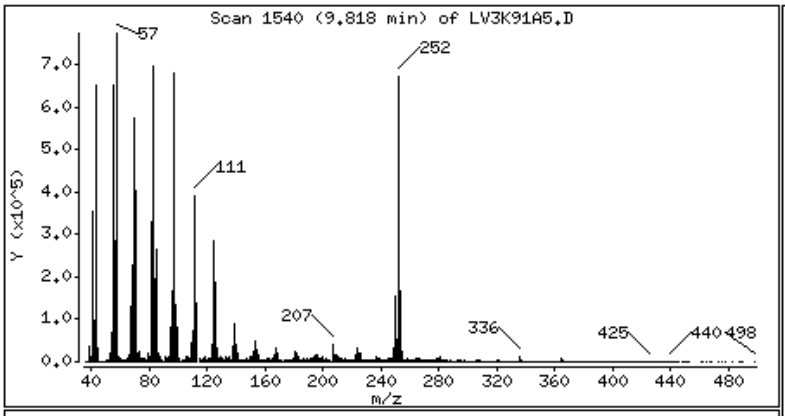


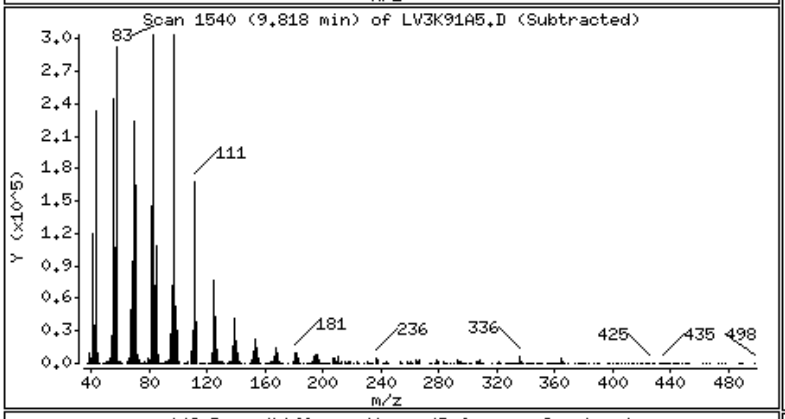


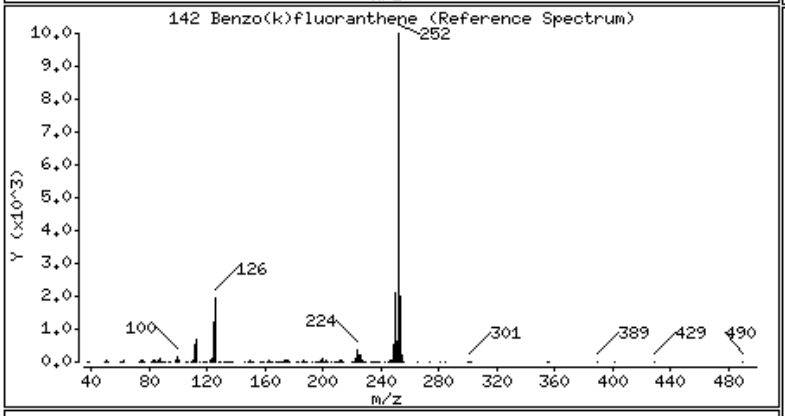


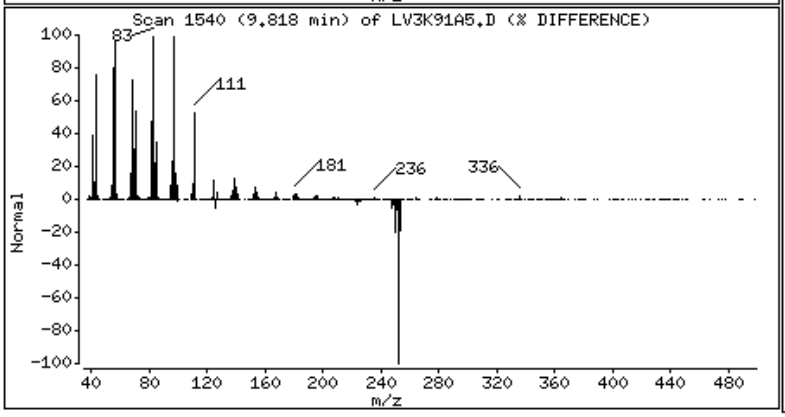


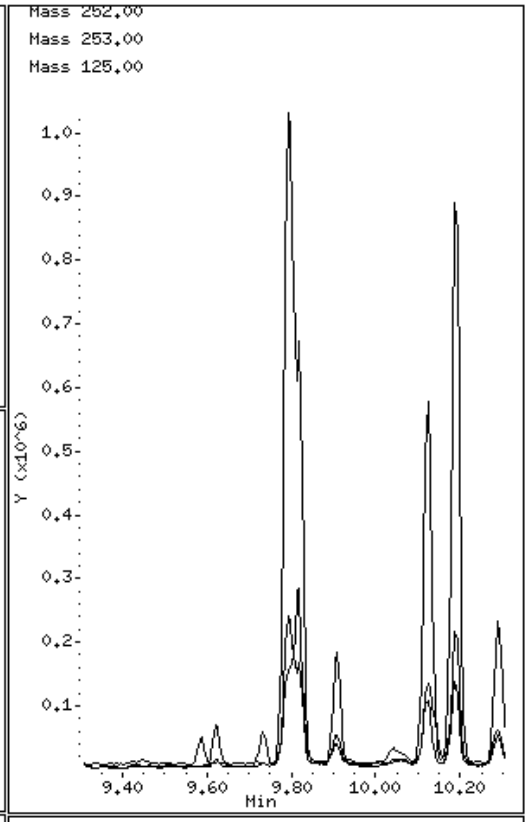
142 Benzo(k)fluoranthene

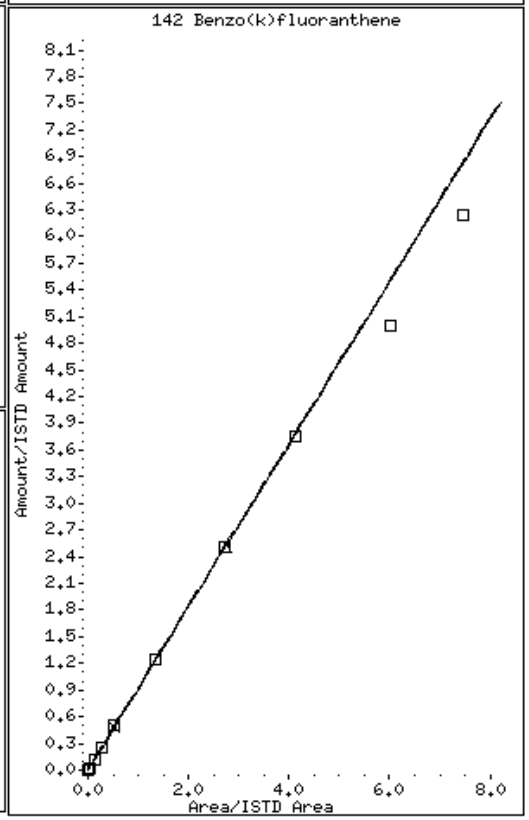




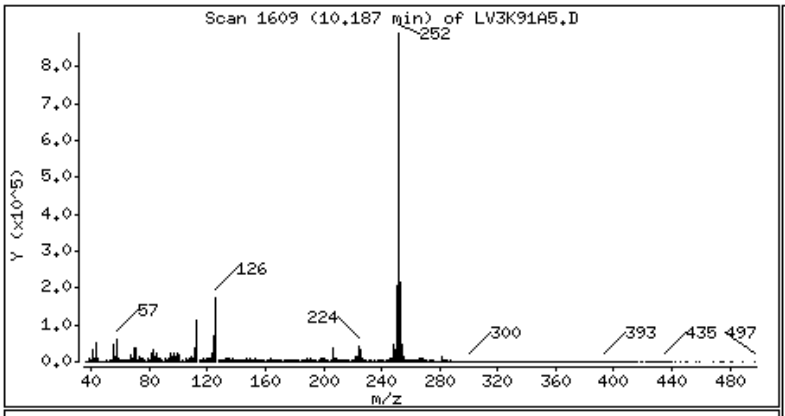


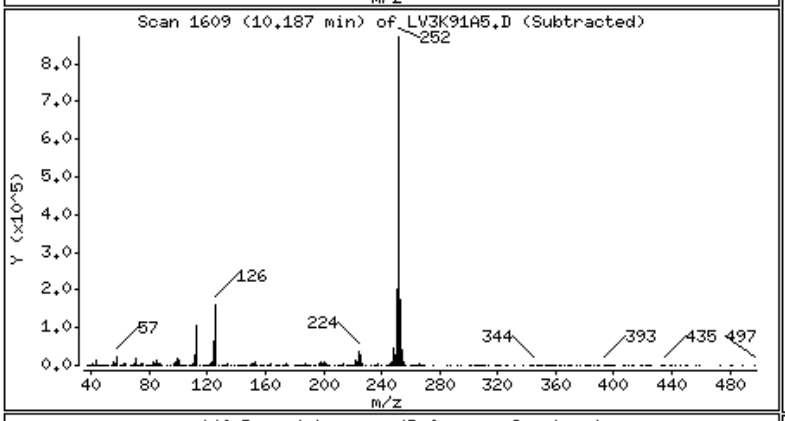


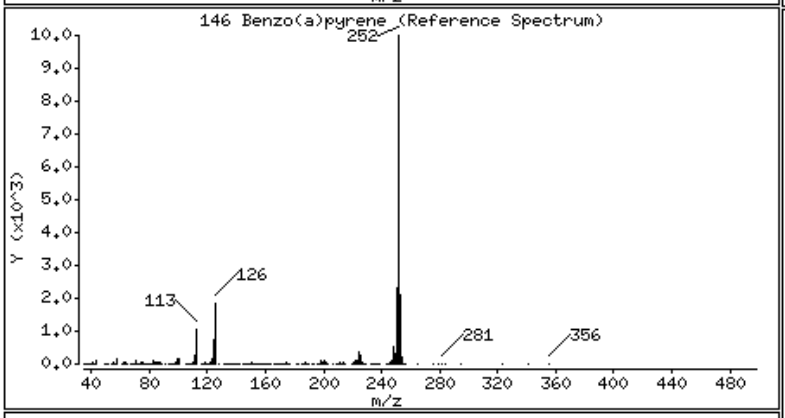


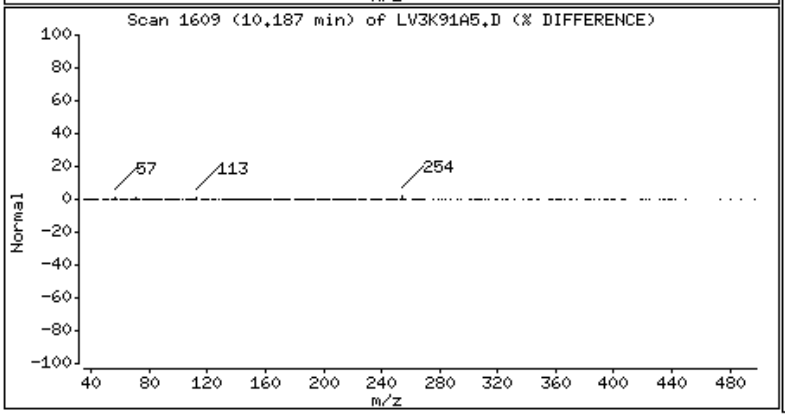


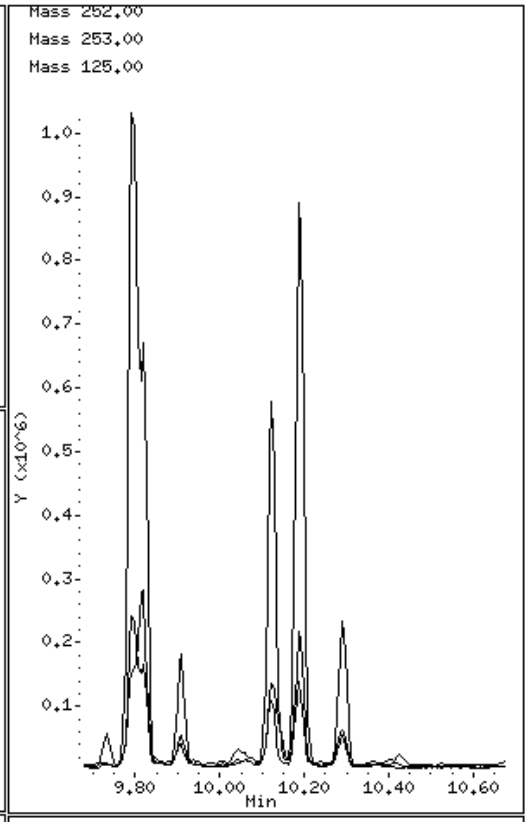
146 Benzo(a)pyrene

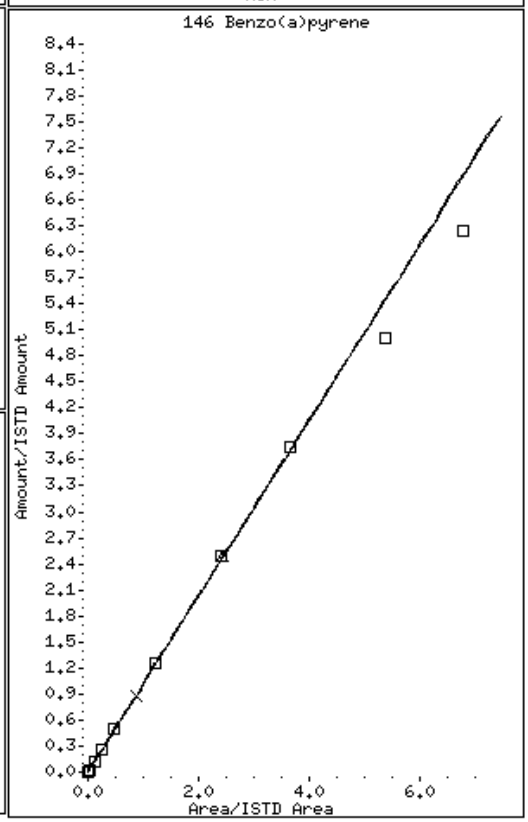




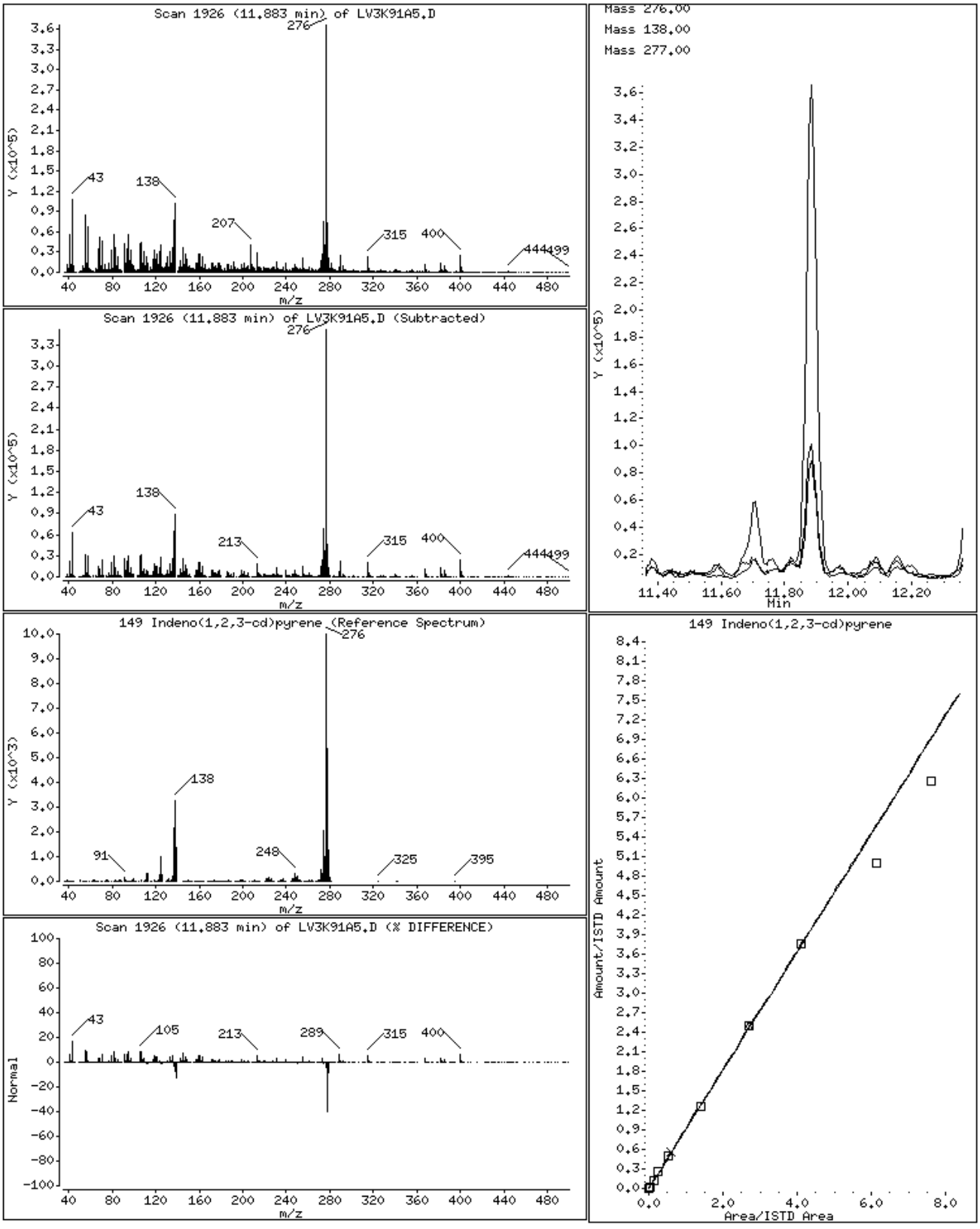




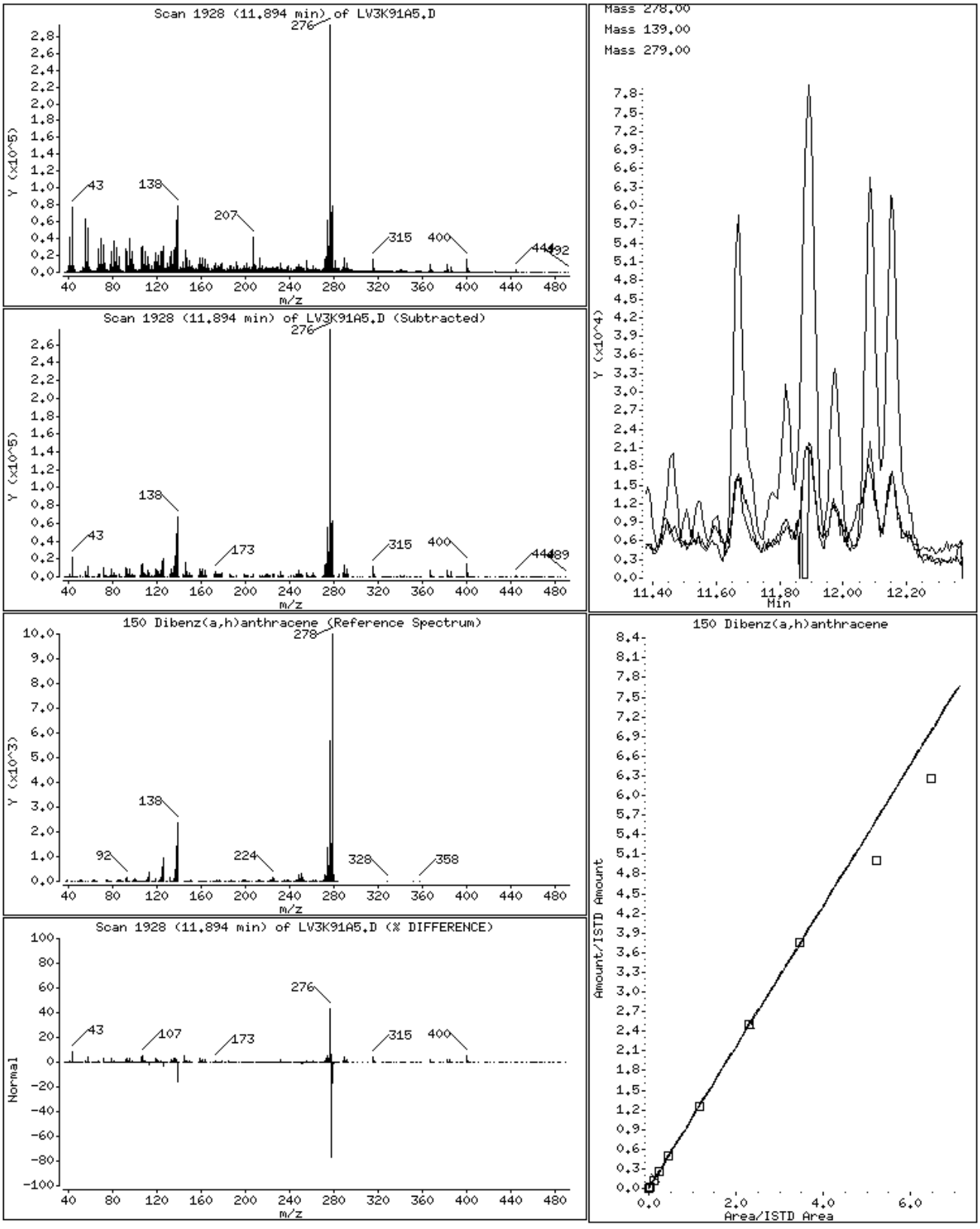




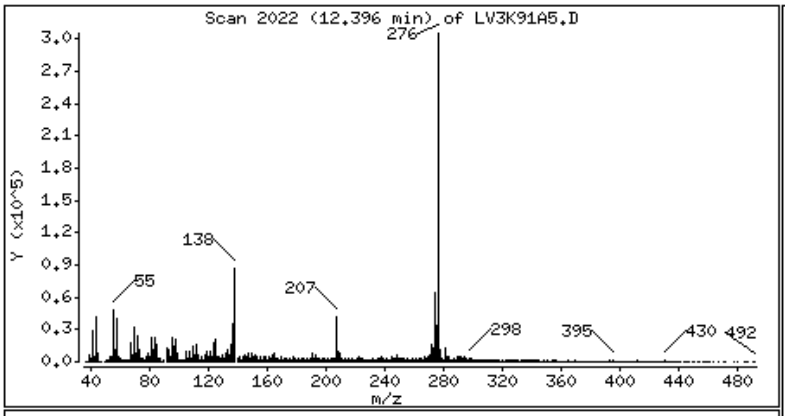
149 Indeno(1,2,3-cd)pyrene

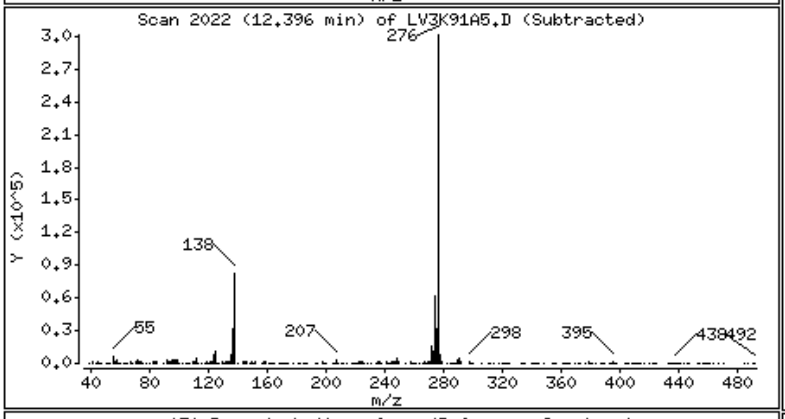


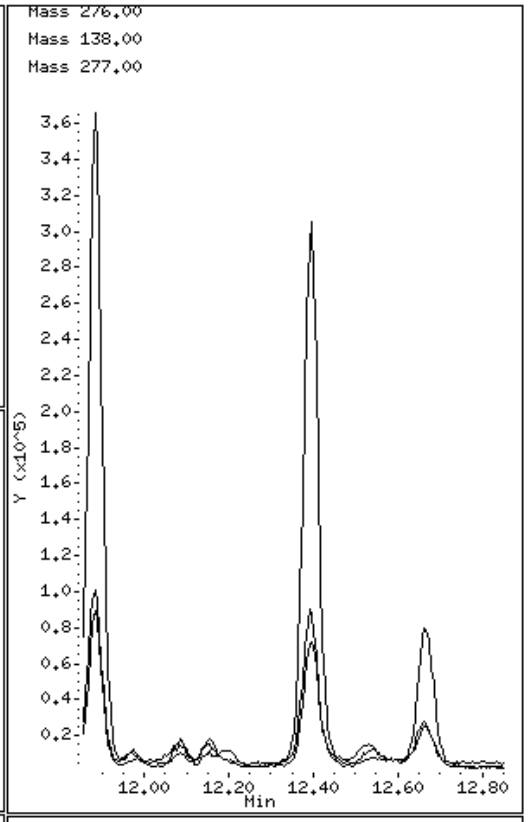
150 Dibenz(a,h)anthracene

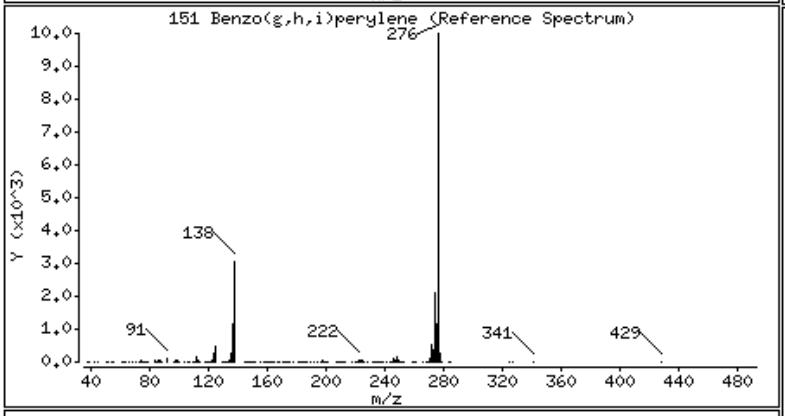


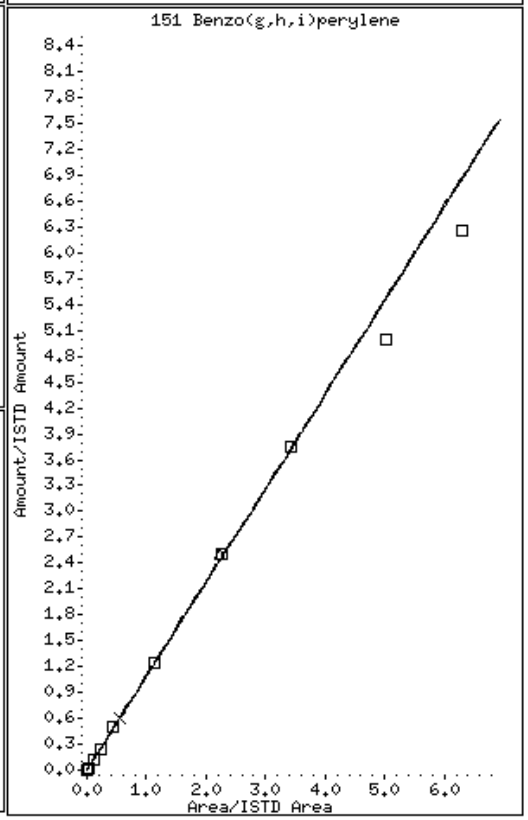
151 Benzo(g,h,i)perylene

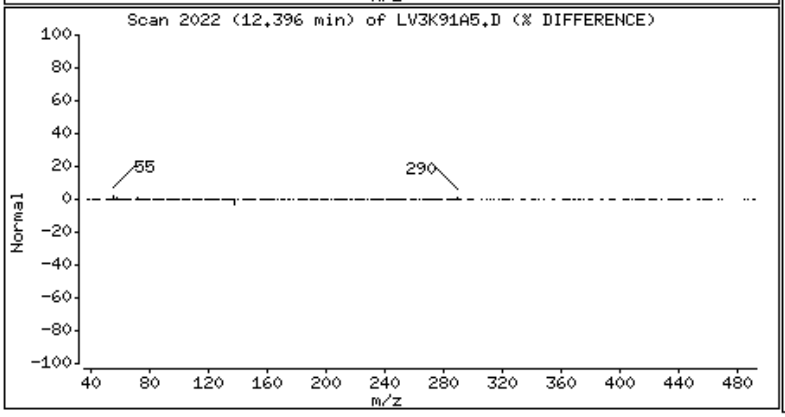




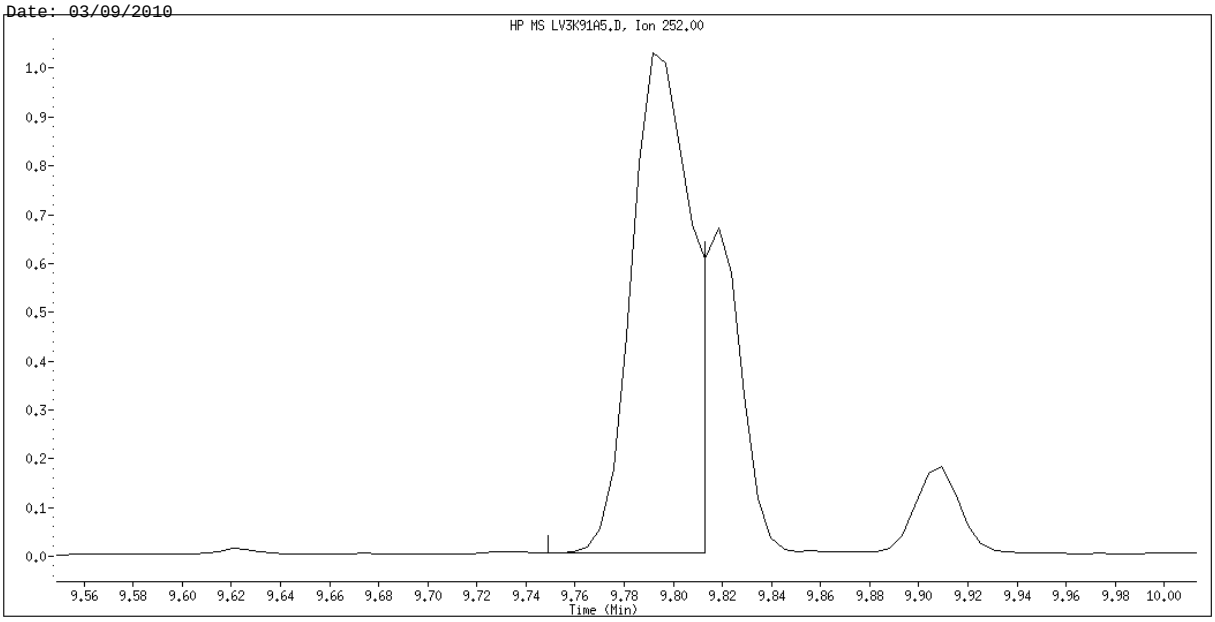




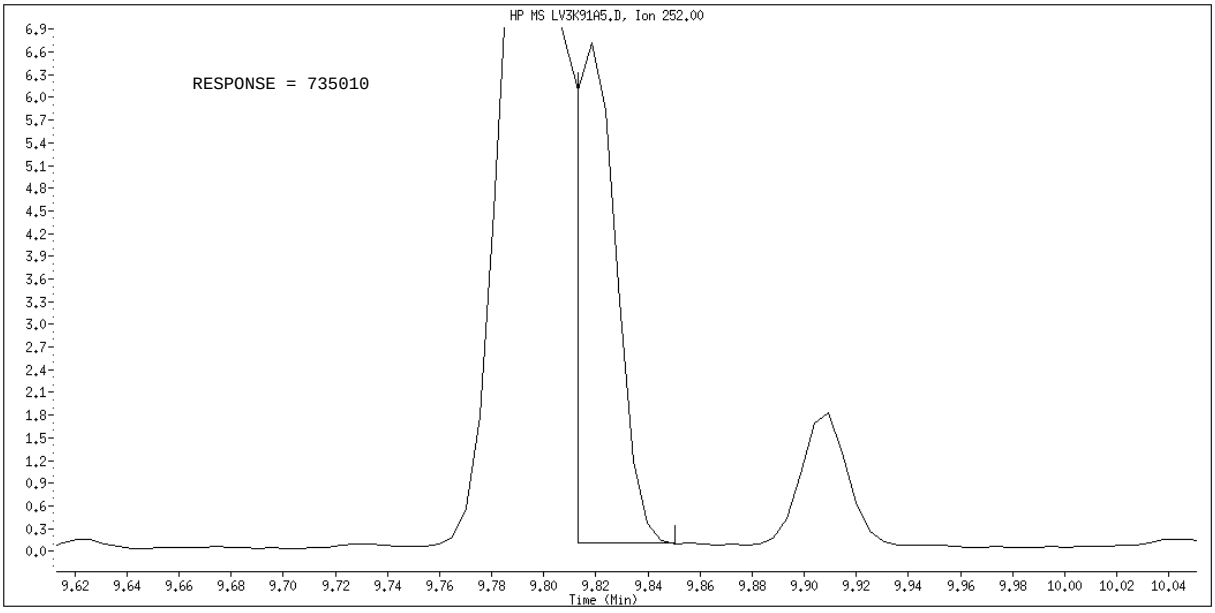




Data File Name: LV3K91A5.D
Inj. Date and Time: 08-MAR-2010 15:04
Instrument ID: a4hp7.i
Client ID: F15SS-036M-5427-SO
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Science Applications International Corp

Client Sample ID: F15SS-035M-5428-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-014 **Work Order #...:** LV3LA1AG **Matrix.....:** SO
Date Sampled...: 02/24/10 12:00 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0060040
Dilution Factor: 4 **Initial Wgt/Vol:** 30.01 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 2.0 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	27	ug/kg	13
Acenaphthylene	ND	27	ug/kg	13
Anthracene	**29**	**27**	**ug/kg**	**13**
Benzo(a)anthracene	**120**	**27**	**ug/kg**	**13**
Benzo(b)fluoranthene	**210**	**27**	**ug/kg**	**13**
Benzo(k)fluoranthene	**72**	**27**	**ug/kg**	**13**
Benzo(ghi)perylene	**100**	**27**	**ug/kg**	**13**
Benzo(a)pyrene	**130**	**27**	**ug/kg**	**13**
Chrysene	**150**	**27**	**ug/kg**	**4.5**
Dibenzo(a,h)anthracene	ND	27	ug/kg	13
Fluoranthene	**250**	**27**	**ug/kg**	**13**
Fluorene	ND	27	ug/kg	13
Indeno(1,2,3-cd)pyrene	**85**	**27**	**ug/kg**	**13**
Naphthalene	**130**	**27**	**ug/kg**	**13**
Phenanthrene	**190**	**27**	**ug/kg**	**13**
Pyrene	**190**	**27**	**ug/kg**	**13**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	62 DIL	(45 - 105)
2-Fluorophenol	64 DIL	(35 - 105)
Phenol-d5	64 DIL	(40 - 100)
2,4,6-Tribromophenol	65 DIL	(35 - 125)
Nitrobenzene-d5	57 DIL	(35 - 100)
Terphenyl-d14	77 DIL	(30 - 125)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\LV3LA1AG.D
Lab Smp Id: lv3la1ag Client Smp ID: F15SS-035M-5428-SO
Inj Date : 08-MAR-2010 14:07
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3la1ag,00308a.b,8270c-625,1-pah.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 13:55 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 1-pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
*	1 1,4-Dichlorobenzene-d4	152	3.565	3.560	(1.000)	285897	2.00000		(Q)
*	2 Naphthalene-d8	136	4.453	4.453	(1.000)	1199901	2.00000		
*	3 Acenaphthene-d10	164	5.721	5.721	(1.000)	724125	2.00000		
*	4 Phenanthrene-d10	188	6.807	6.807	(1.000)	1194151	2.00000		
*	5 Chrysene-d12	240	8.769	8.769	(1.000)	1443795	2.00000		
*	6 Perylene-d12	264	10.251	10.235	(1.000)	1371718	2.00000		
	51 Naphthalene	128	4.469	4.469	(1.004)	132959	0.23965	127.77	
	62 2-Methylnaphthalene	142	4.961	4.961	(1.114)	144005	0.47677	254.19	
	63 1-Methylnaphthalene	142	5.031	5.031	(1.130)	113025	0.32543	173.50	
	70 2-Chloronaphthalene	162	Compound Not Detected.						
	79 Acenaphthylene	152	Compound Not Detected.						
	82 Acenaphthene	153	Compound Not Detected.						
	86 Dibenzofuran	168	5.865	5.870	(1.025)	48288	0.09272	49.436	
	94 Fluorene	166	Compound Not Detected.						
	115 Phenanthrene	178	6.823	6.823	(1.002)	222443	0.34290	182.82	
	116 Anthracene	178	6.860	6.860	(1.008)	34871	0.05337	28.453	
	123 Fluoranthene	202	7.694	7.689	(1.130)	310715	0.46741	249.20	
	125 Pyrene	202	7.866	7.866	(0.897)	260933	0.35056	186.90	

136 Benzo(a)Anthracene	228	8.759	8.759 (0.999)	160497	0.22460	119.74
137 Chrysene	228	8.791	8.791 (1.002)	185993	0.27582	147.06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
141 Benzo(b)fluoranthene	252	9.786	9.780	(0.955)	268609	0.38098	203.12(M)
142 Benzo(k)fluoranthene	252	9.812	9.807	(0.957)	98776	0.13166	70.197(QM)
146 Benzo(a)pyrene	252	10.182	10.176	(0.993)	156614	0.23139	123.37
149 Indeno(1,2,3-cd)pyrene	276	11.861	11.861	(1.157)	117961	0.15595	83.147
150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
151 Benzo(g,h,i)perylene	276	12.369	12.353	(1.207)	118878	0.18835	100.42
$ 154 Nitrobenzene-d5	82	3.940	3.940	(0.885)	129683	0.71532	381.38
$ 155 2-Fluorobiphenyl	172	5.207	5.207	(0.910)	322795	0.77270	411.97
$ 156 Terphenyl-d14	244	7.946	7.940	(0.906)	436120	0.96156	512.66
$ 157 Phenol-d5	99	3.282	3.260	(0.920)	258550	1.20710	643.57
$ 158 2-Fluorophenol	112	2.747	2.688	(0.770)	193091	1.19103	635.01
$ 159 2,4,6-Tribromophenol	330	6.293	6.288	(1.100)	59283	1.21312	646.78
$ 186 2-Chlorophenol-d4	132	3.416	3.405	(0.958)	215687	1.27386	679.16
$ 187 1,2-Dichlorobenzene-d4	152	3.672	3.667	(1.030)	68968	0.60370	321.87

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

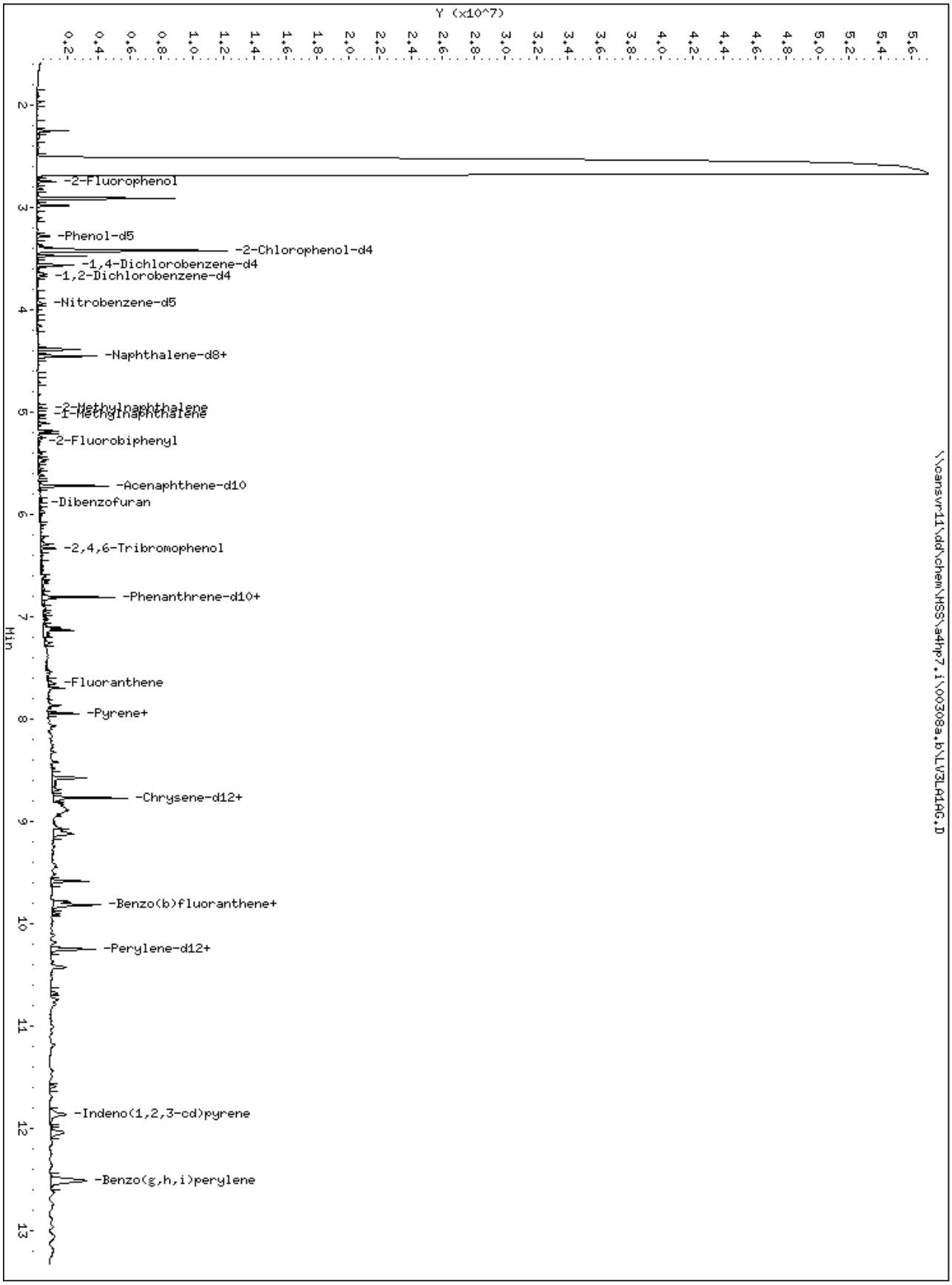
Instrument ID: a4hp7.i
Lab File ID: LV3LA1AG.D
Lab Smp Id: lv3la1ag
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 10:16
Client Smp ID: F15SS-035M-5428-SO
Level: LOW
Sample Type: SOIL

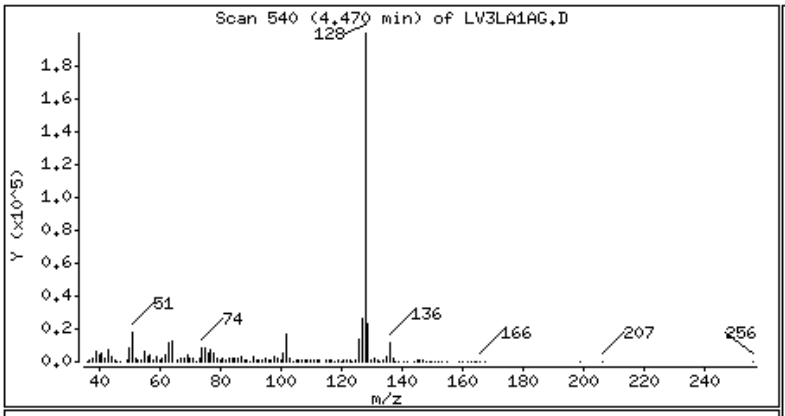
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	388613	194307	777226	285897	-26.43
2 Naphthalene-d8	1628032	814016	3256064	1199901	-26.30
3 Acenaphthene-d10	875709	437855	1751418	724125	-17.31
4 Phenanthrene-d10	1398875	699438	2797750	1194151	-14.63
5 Chrysene-d12	1597704	798852	3195408	1443795	-9.63
6 Perylene-d12	1473841	736921	2947682	1371718	-6.93

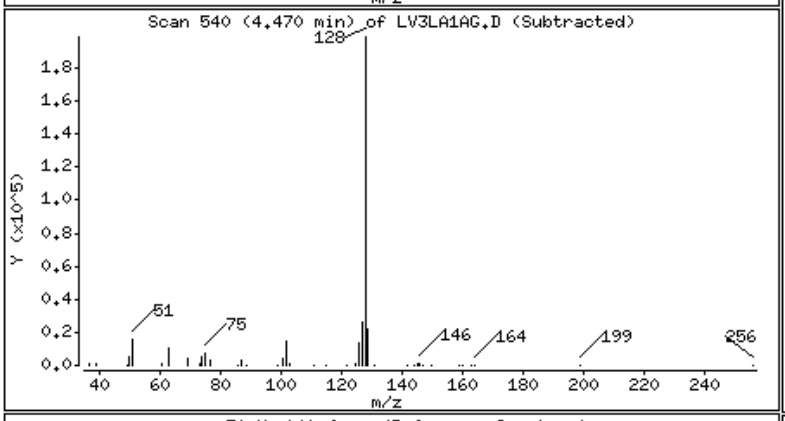
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.56	3.06	4.06	3.57	0.15
2 Naphthalene-d8	4.45	3.95	4.95	4.45	0.00
3 Acenaphthene-d10	5.72	5.22	6.22	5.72	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.77	8.27	9.27	8.77	0.00
6 Perylene-d12	10.24	9.74	10.74	10.25	0.16

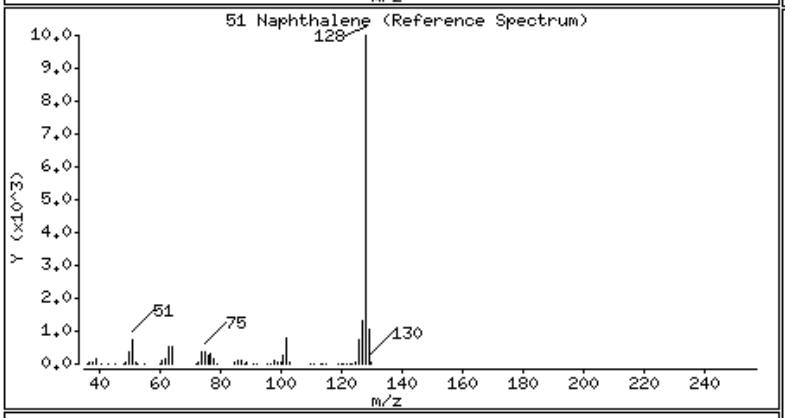
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

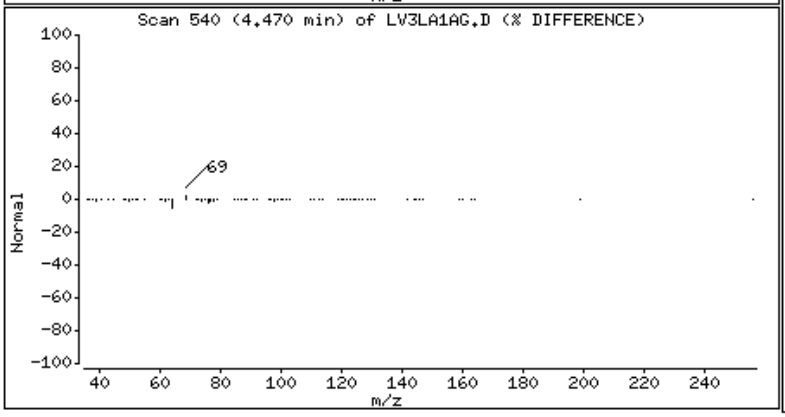

Y (x10^7)
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6
Min
2 3 4 5 6 7 8 9 10 11 12 13
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8+
-2-Methylnaphthalene
-1-Methylnaphthalene
-2-Fluorobiphenyl
-Acenaphthene-d10
-Dibenzofuran
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-Fluoranthene
-Pyrene+
-Chrysene-d12+
-Benzo(b)fluoranthene+
-Perylene-d12+
-Indeno(1,2,3-cd)pyrene
-Benzo(g,h,i)perylene
\\cansvr11\dd\chem\HSS\a4hp7.i\00308a.b\LW2LA10C.D

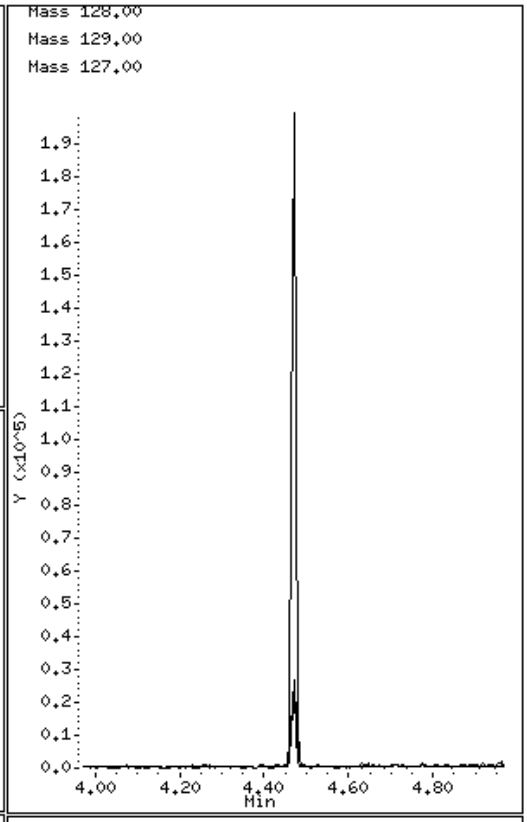
51 Naphthalene

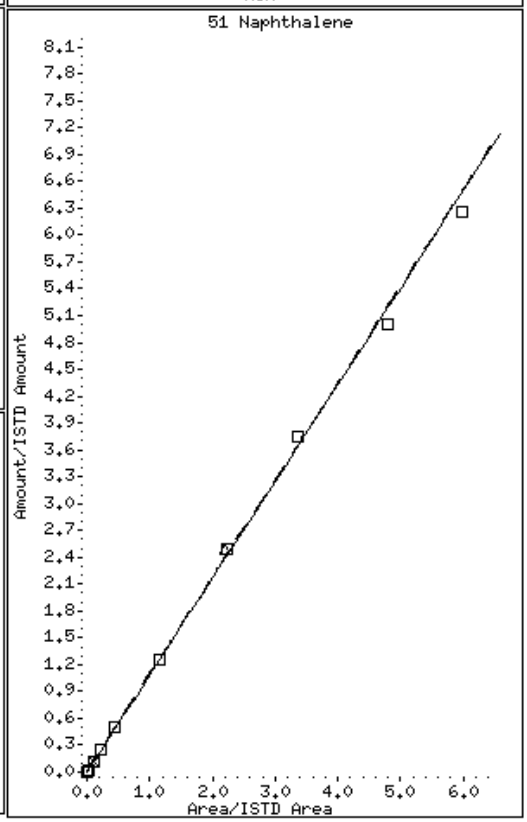




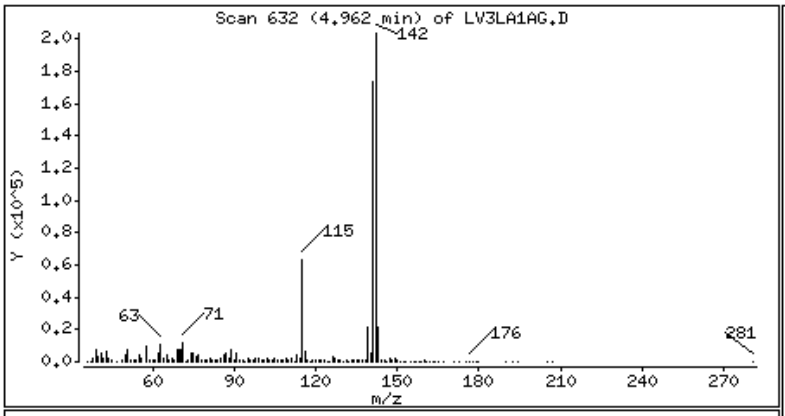


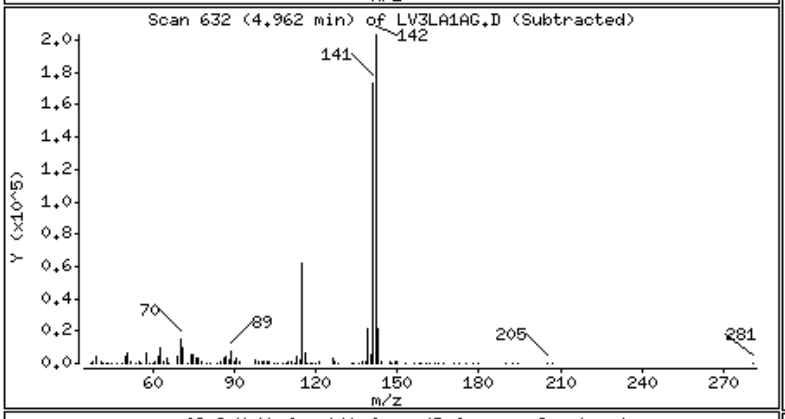


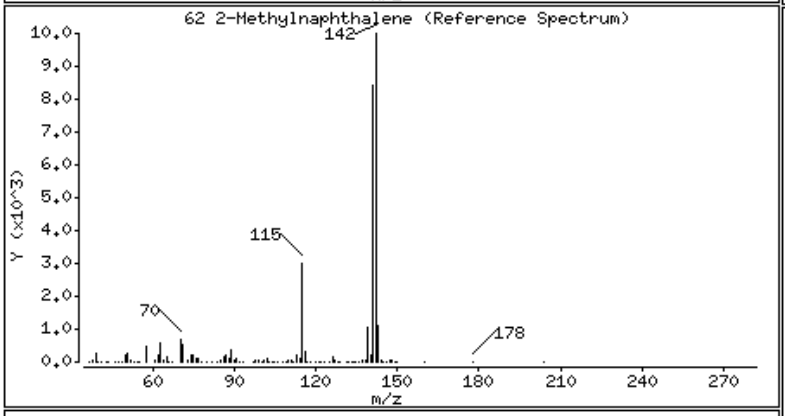


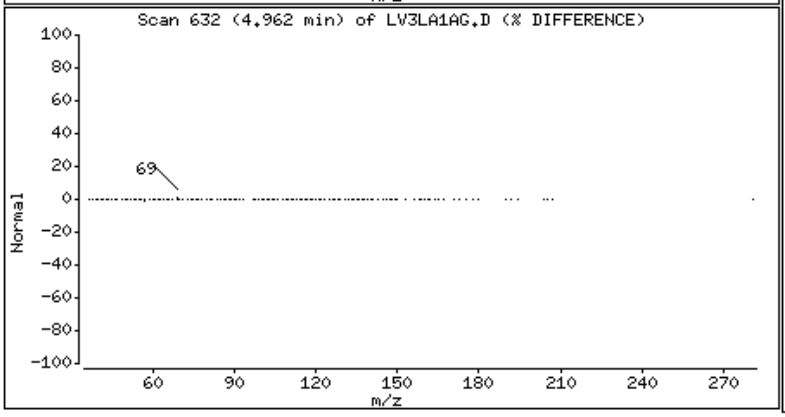


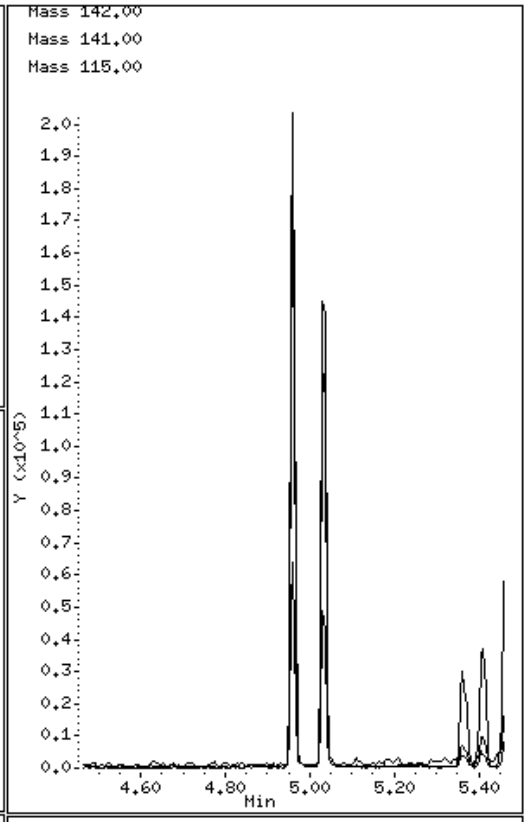
62 2-Methylnaphthalene

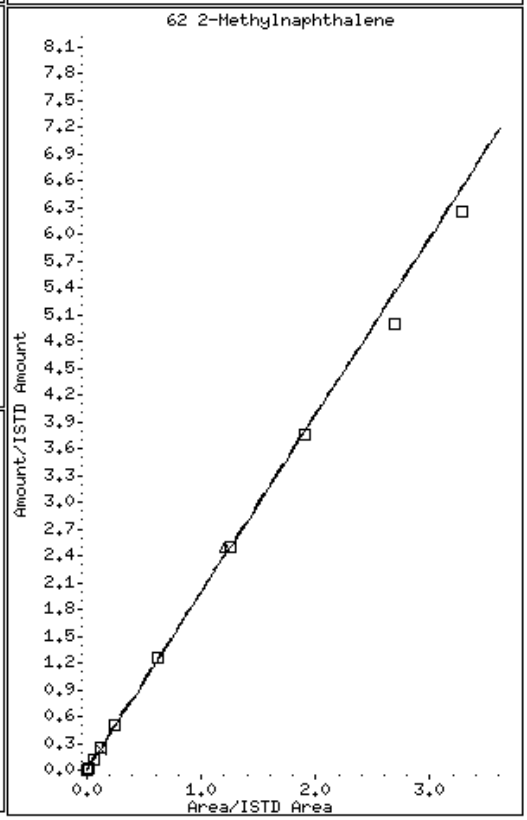




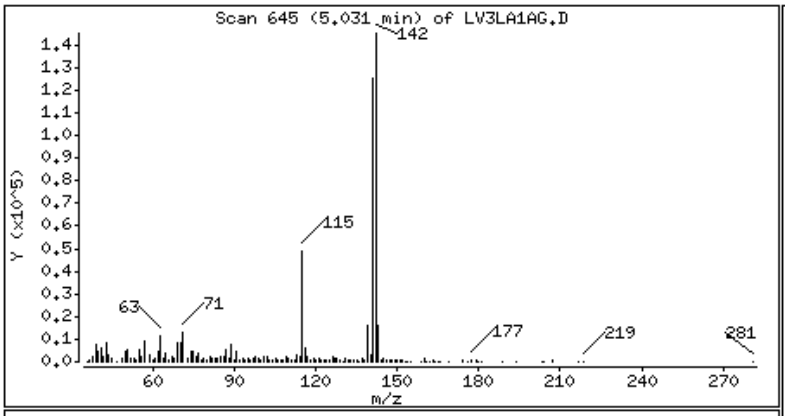


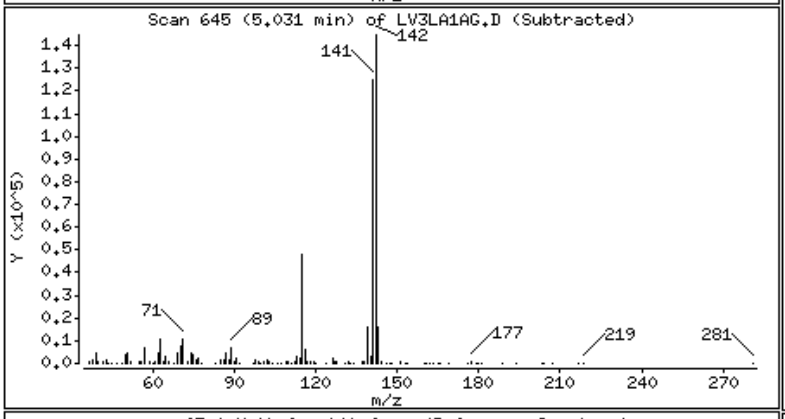


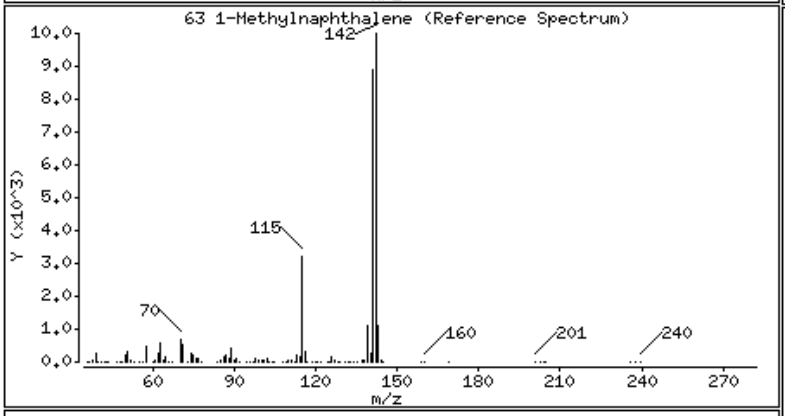


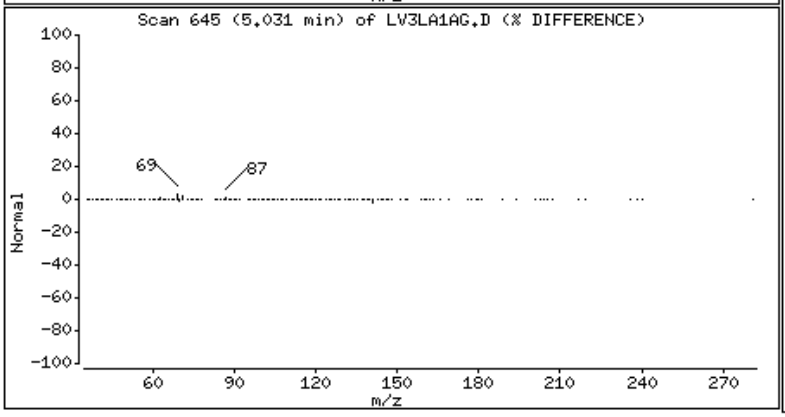


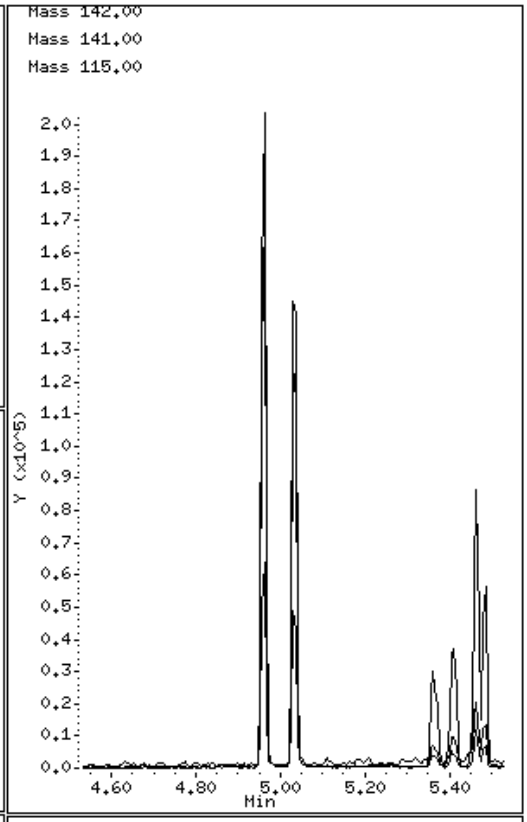
63 1-Methylnaphthalene

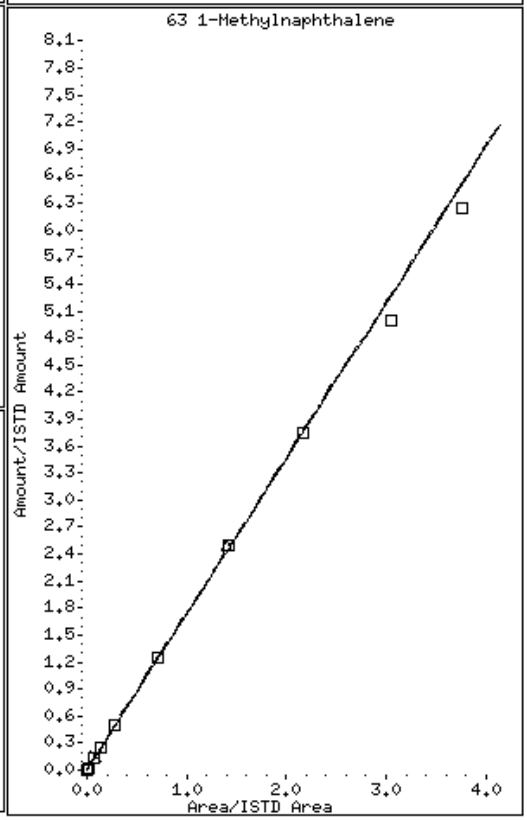




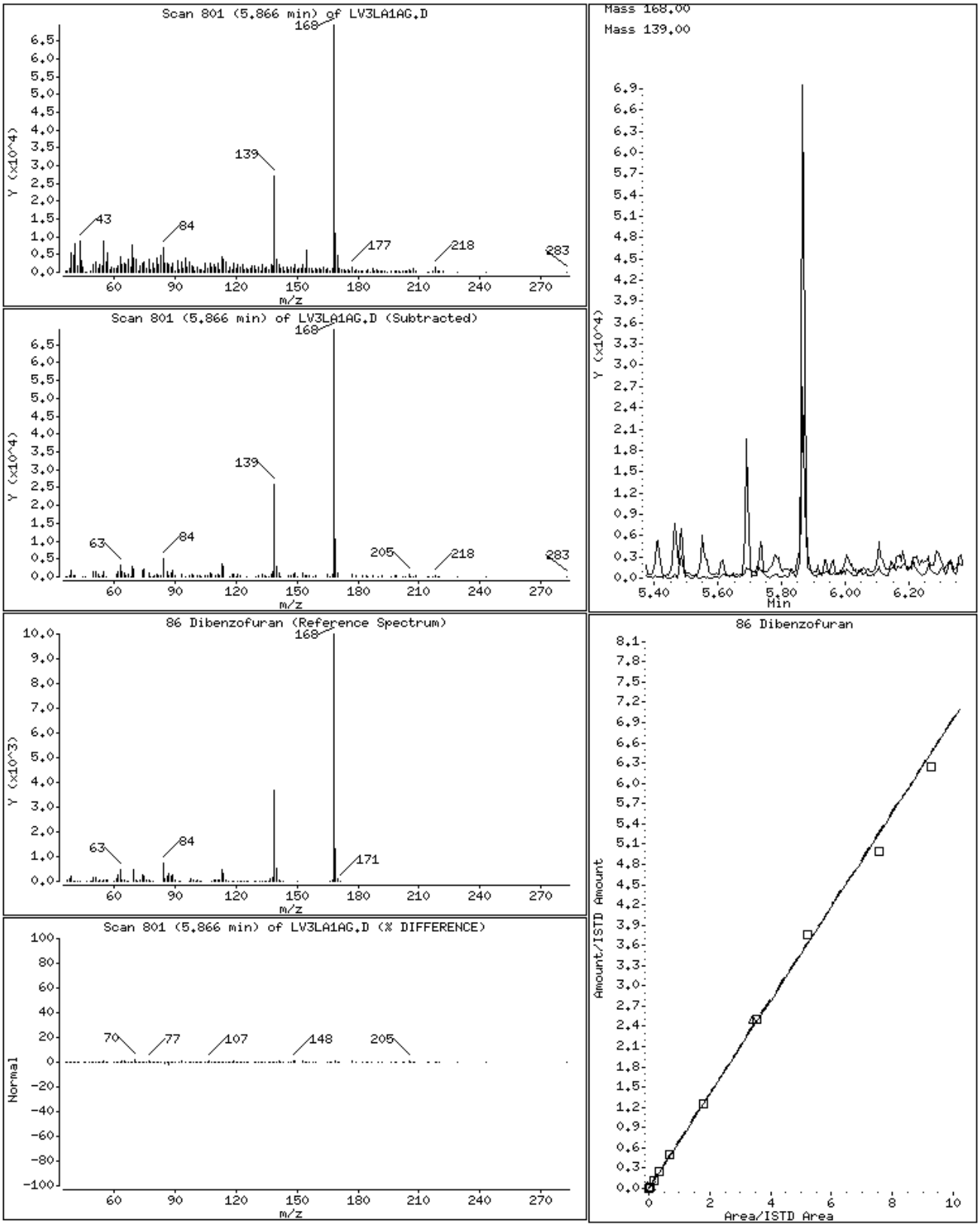




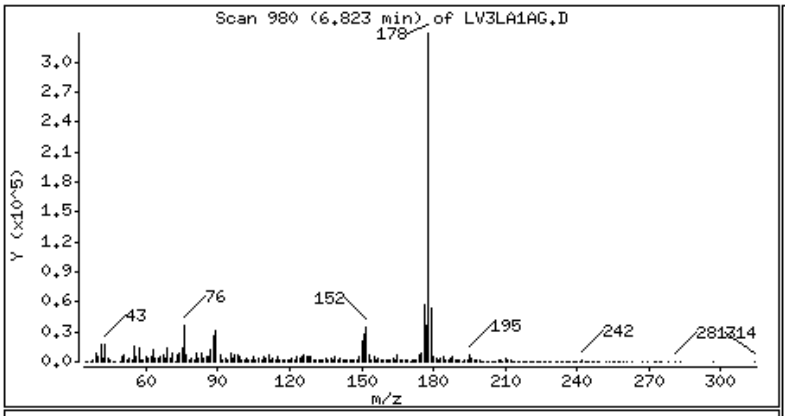


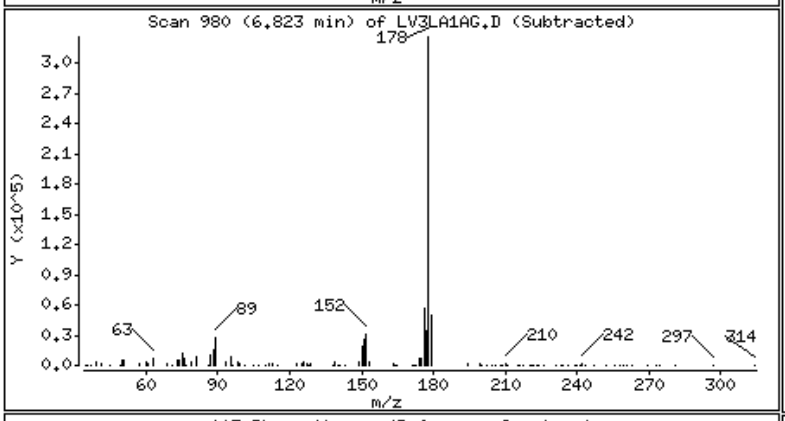


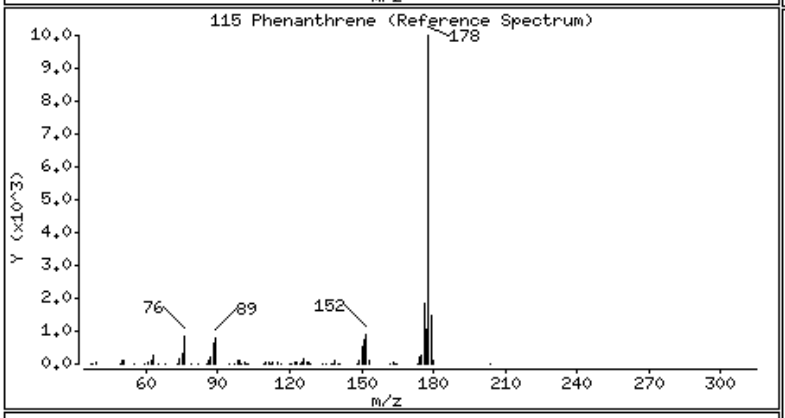
86 Dibenzofuran

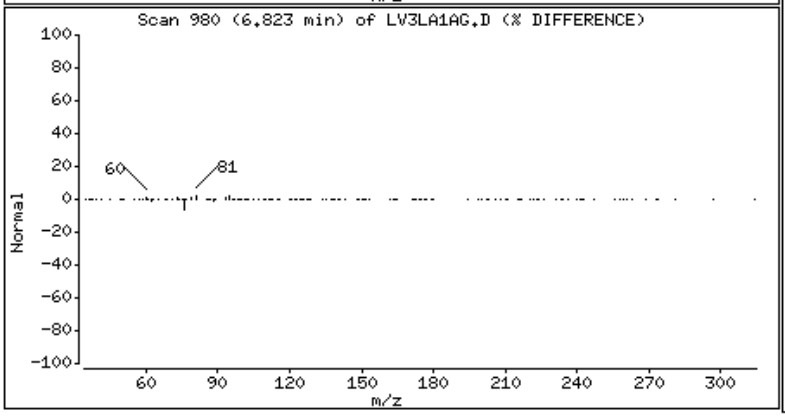


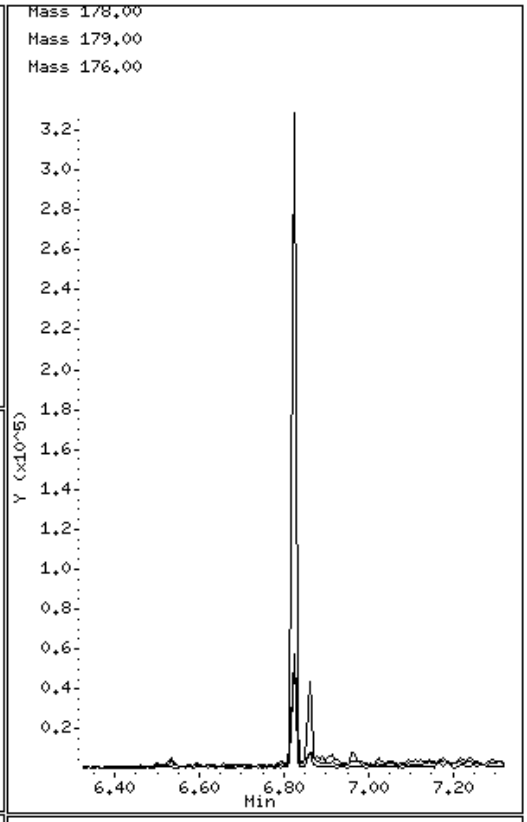
115 Phenanthrene

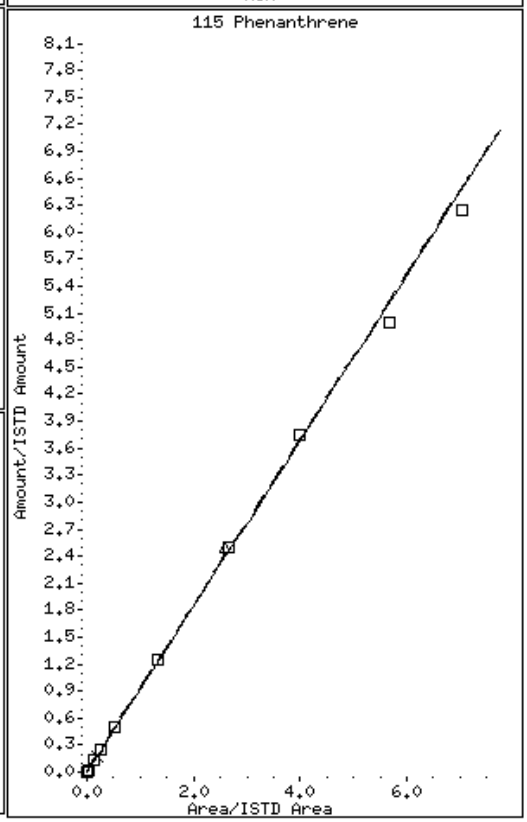




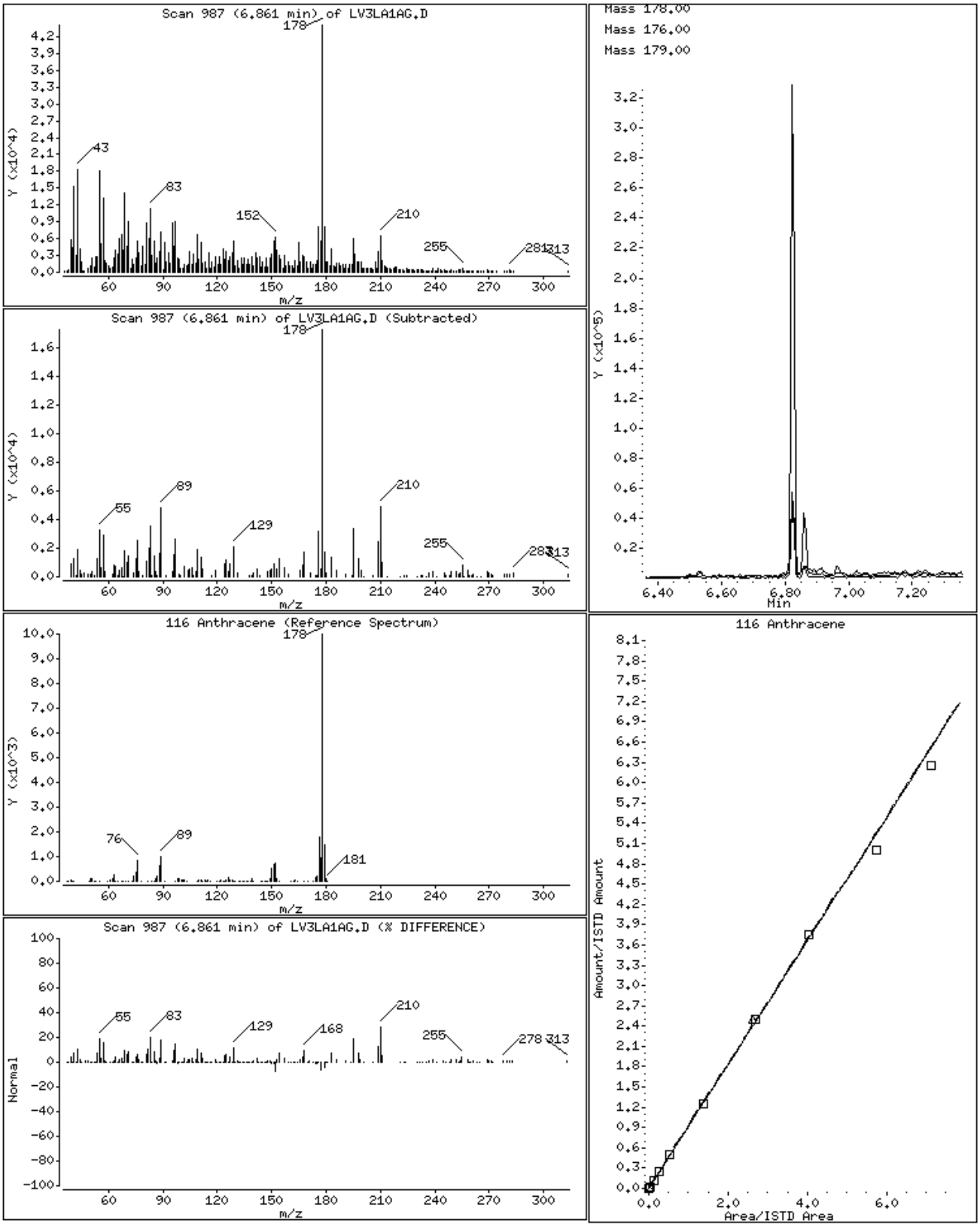




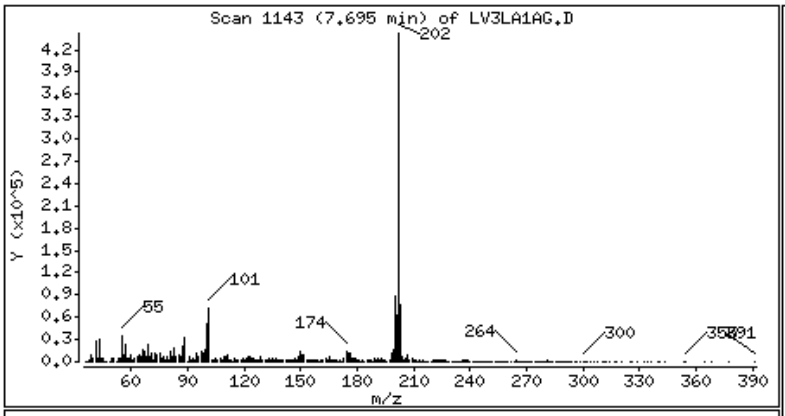


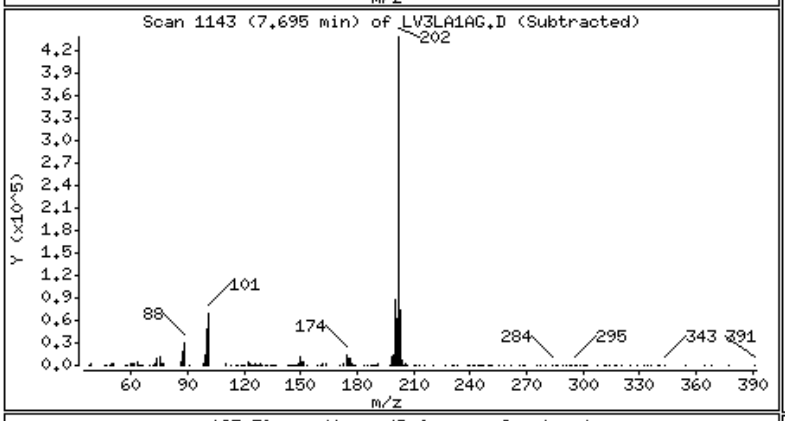


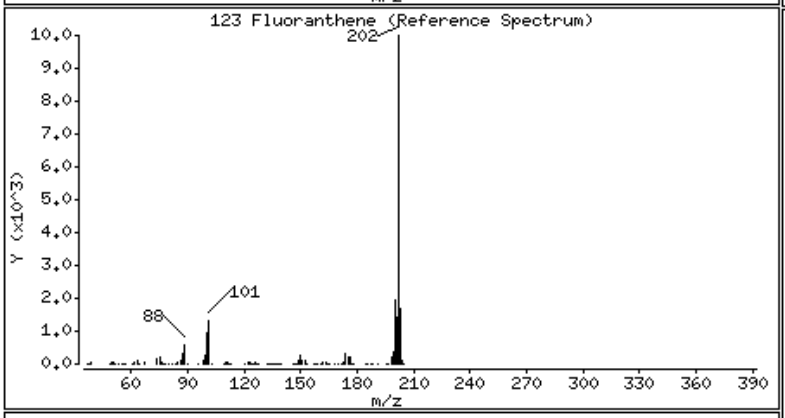
116 Anthracene

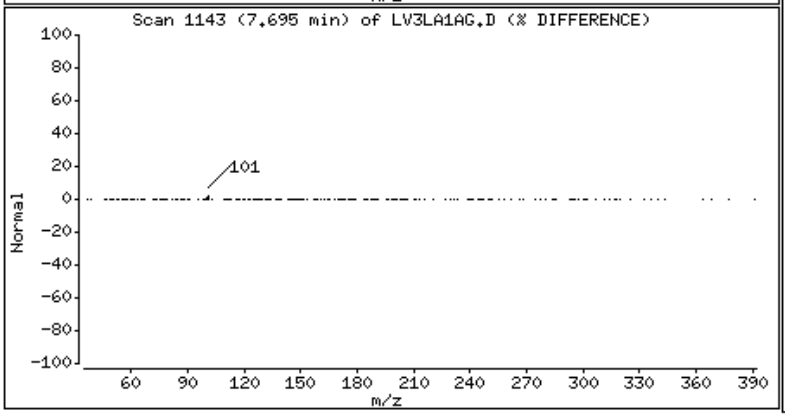


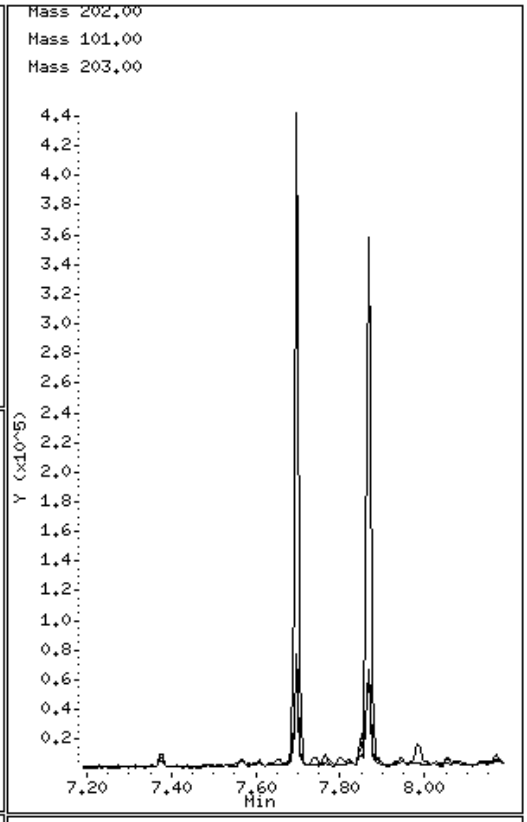
123 Fluoranthene

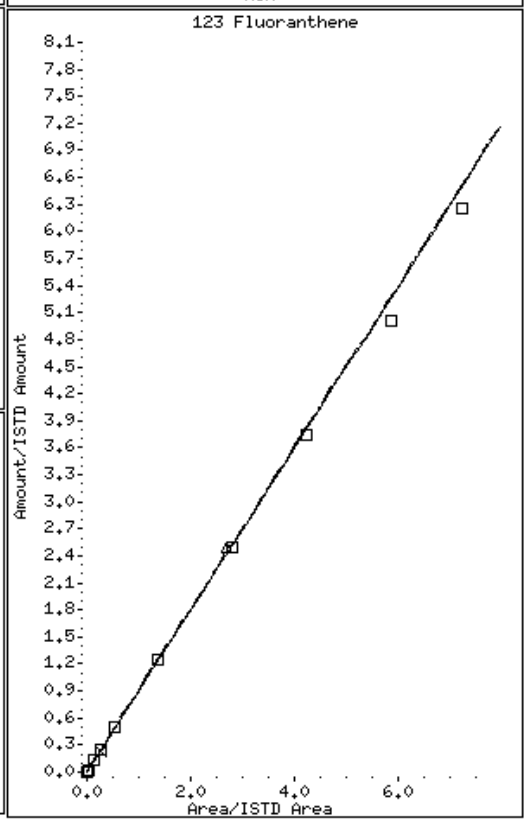




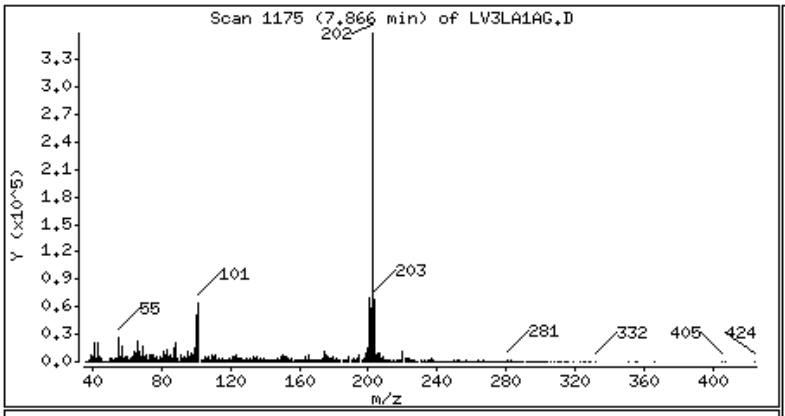


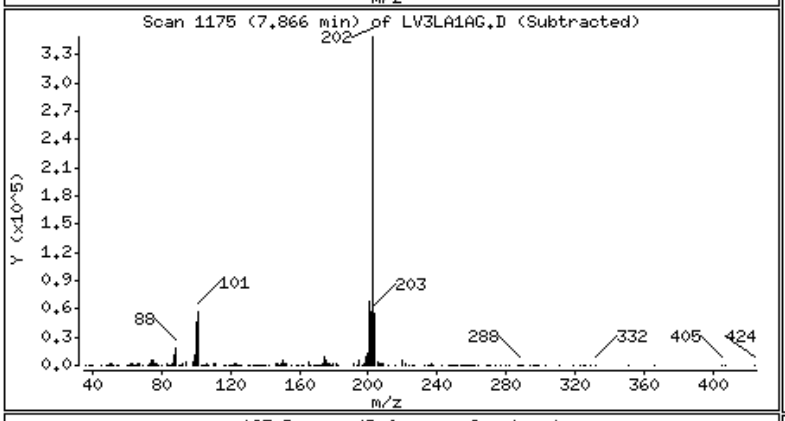


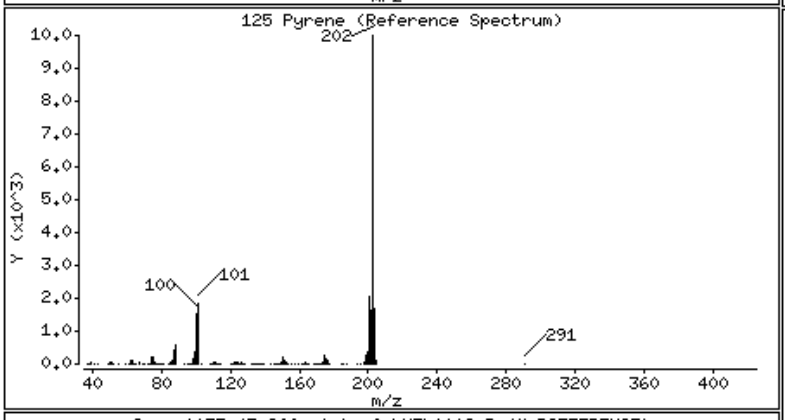


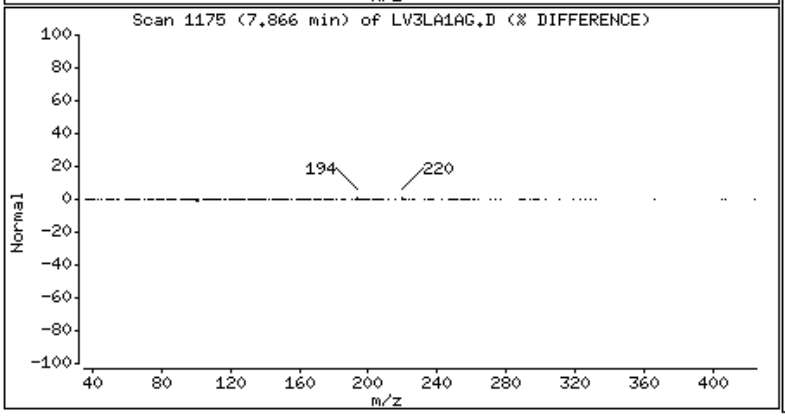


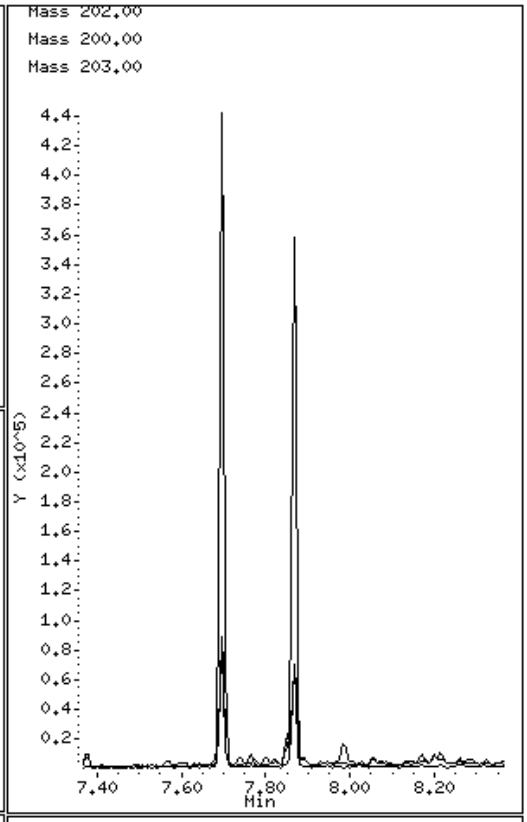
125 Pyrene

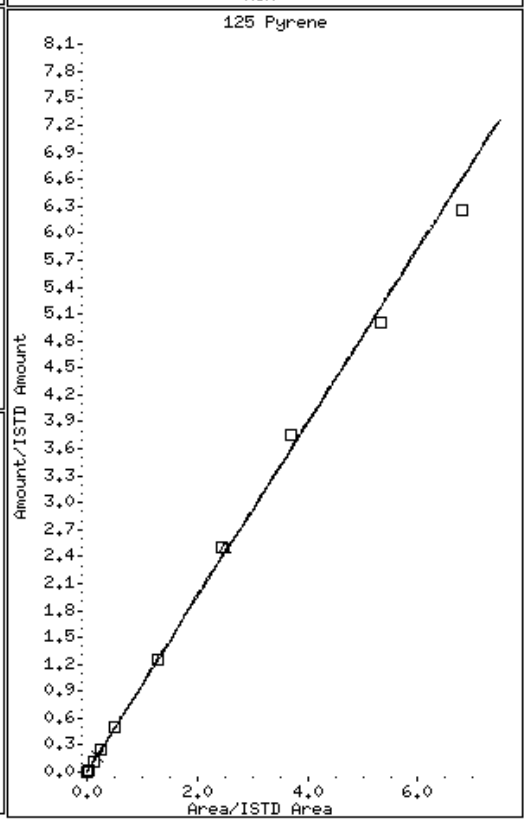

Scan 1175 (7.866 min) of LV3LA1AG.D
202
101
203
55
281
332
405
424
Y (x10^5)
m/z


Scan 1175 (7.866 min) of LV3LA1AG.D (Subtracted)
202
101
203
88
288
332
405
424
Y (x10^5)
m/z

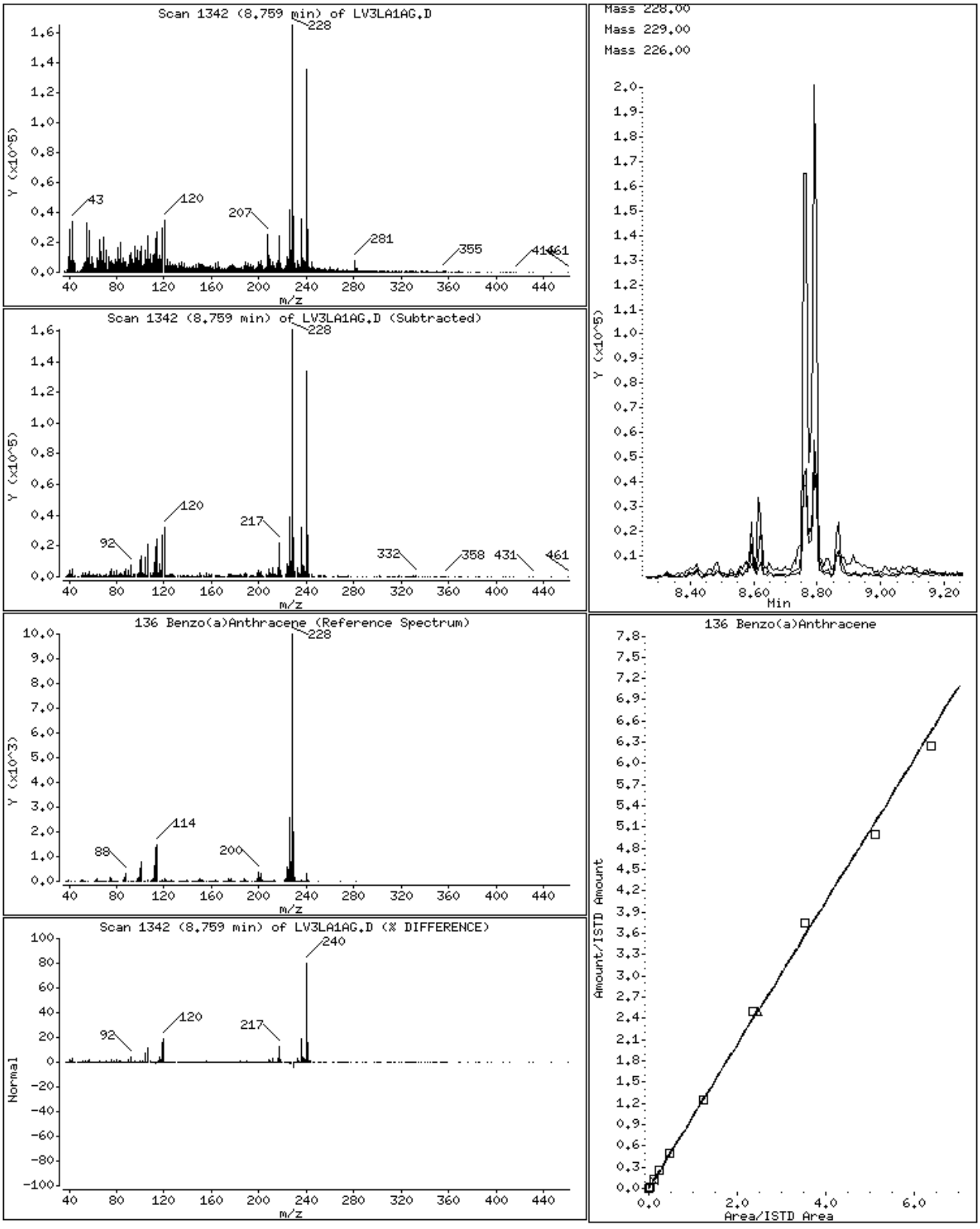

125 Pyrene (Reference Spectrum)
202
100
101
291
Y (x10^3)
m/z


Scan 1175 (7.866 min) of LV3LA1AG.D (% DIFFERENCE)
194
220
Normal
m/z

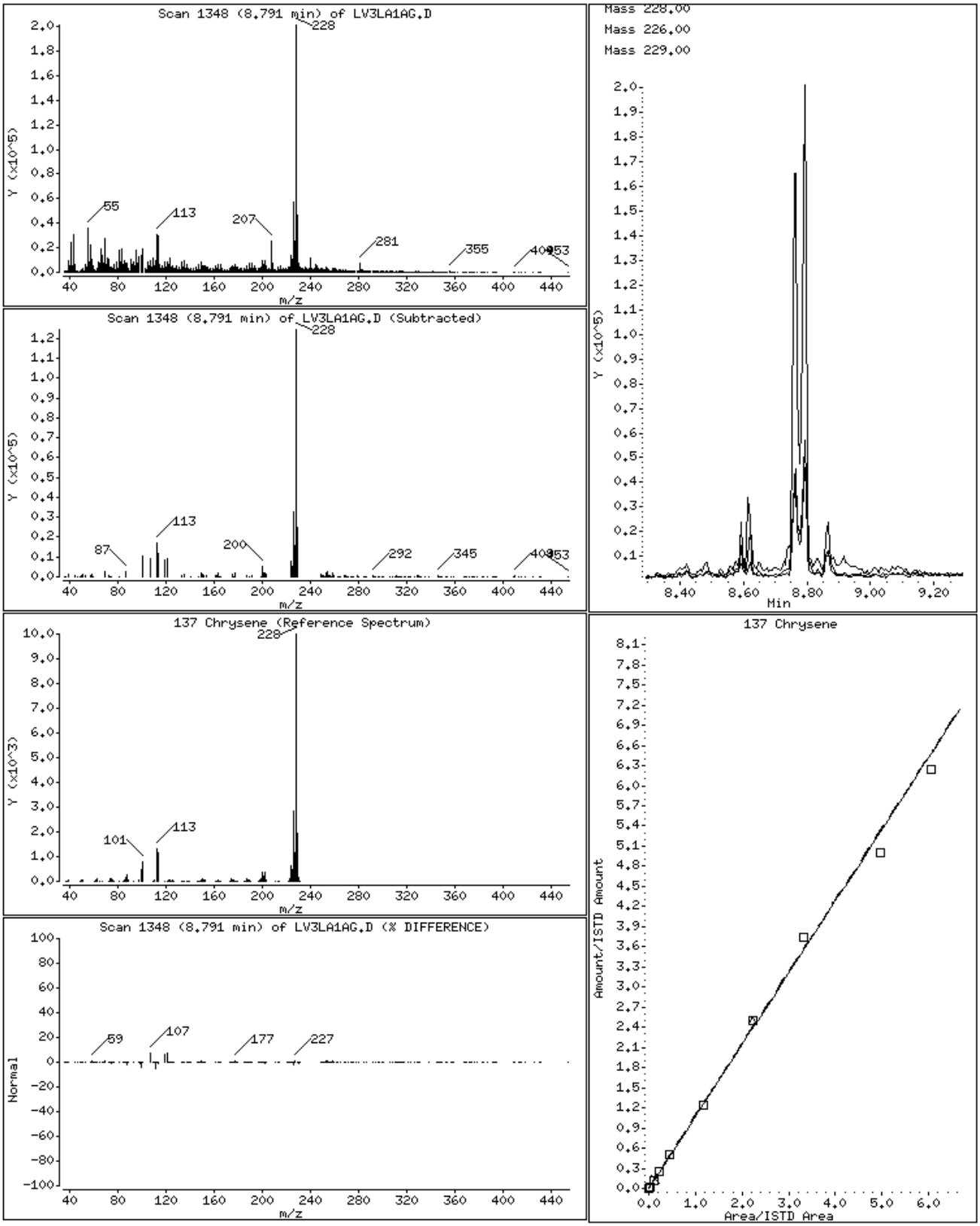

Mass 202.00
Mass 200.00
Mass 203.00
Y (x10^5)
Min


125 Pyrene
Amount/ISTD Amount
Area/ISTD Area

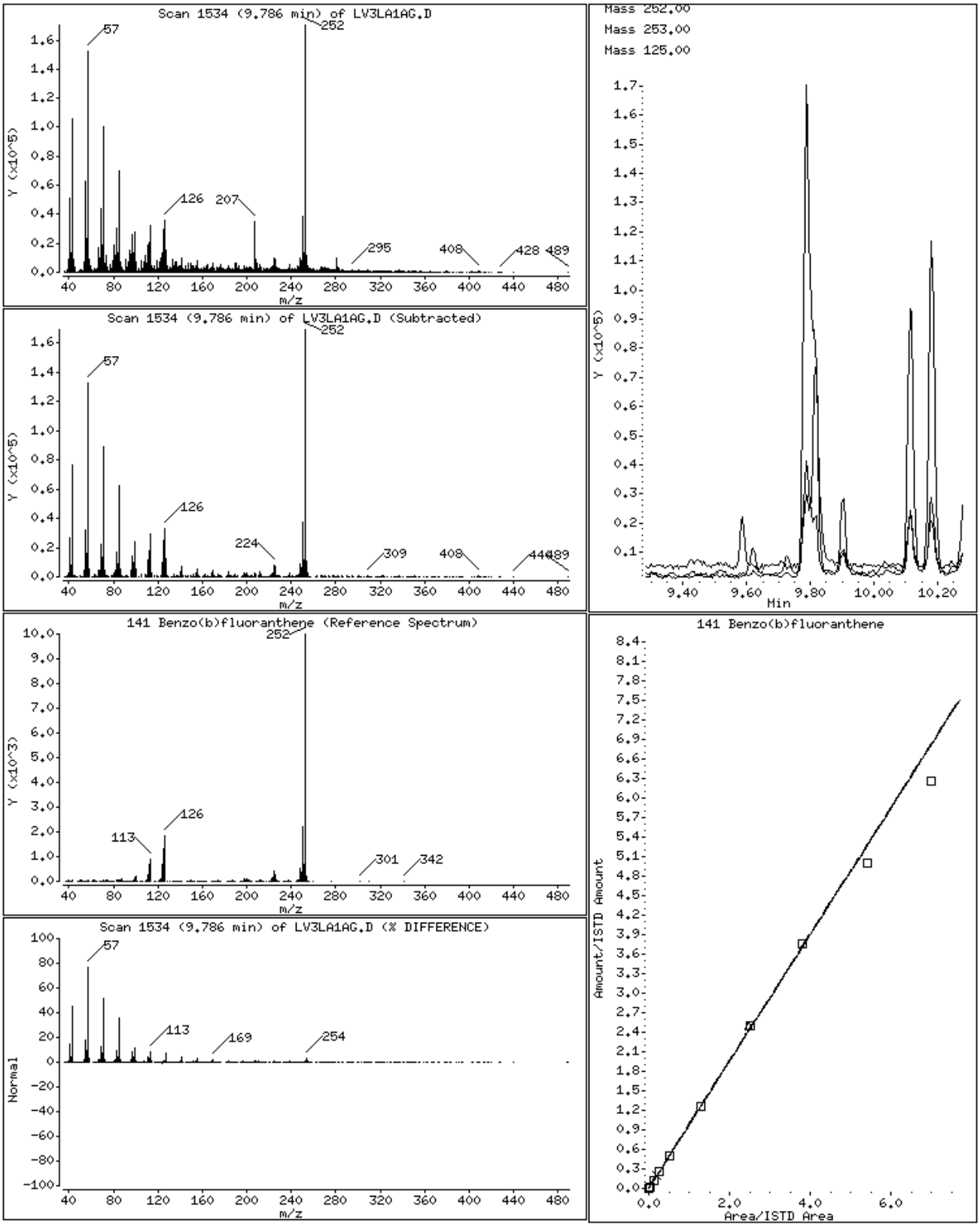
136 Benzo(a)Anthracene



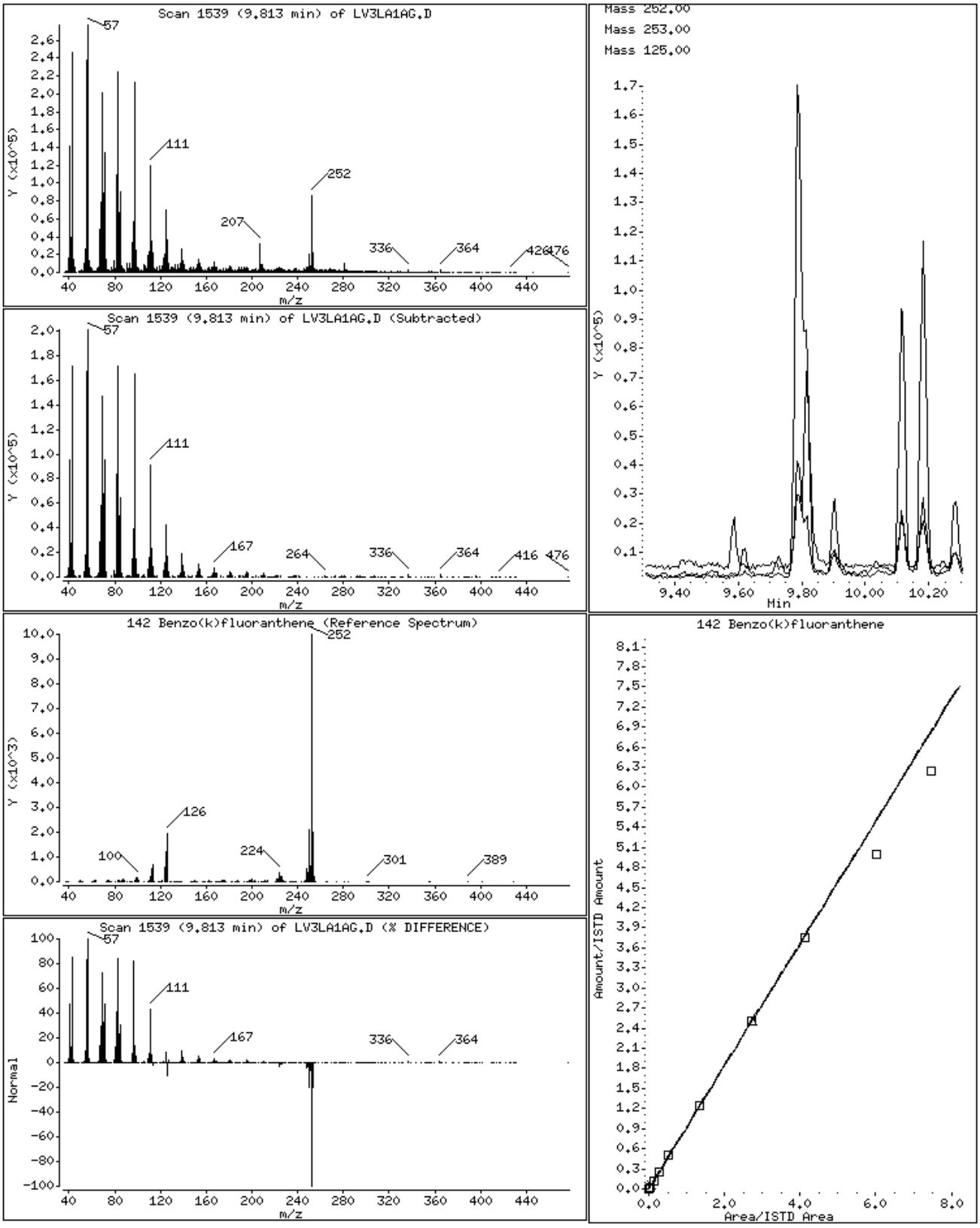
137 Chrysene



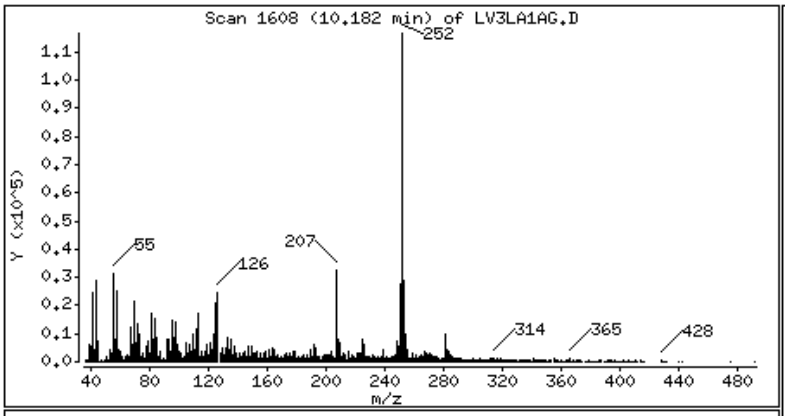
141 Benzo(b)fluoranthene

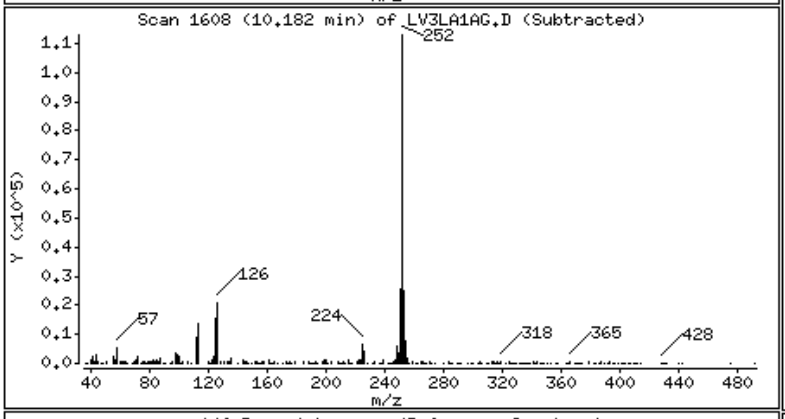


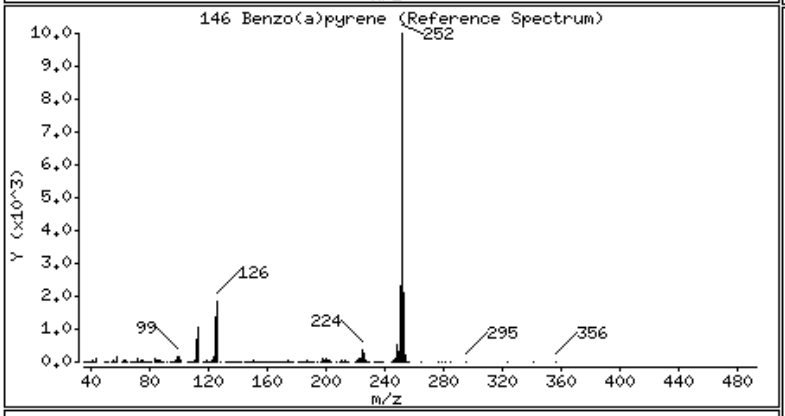
142 Benzo(k)fluoranthene

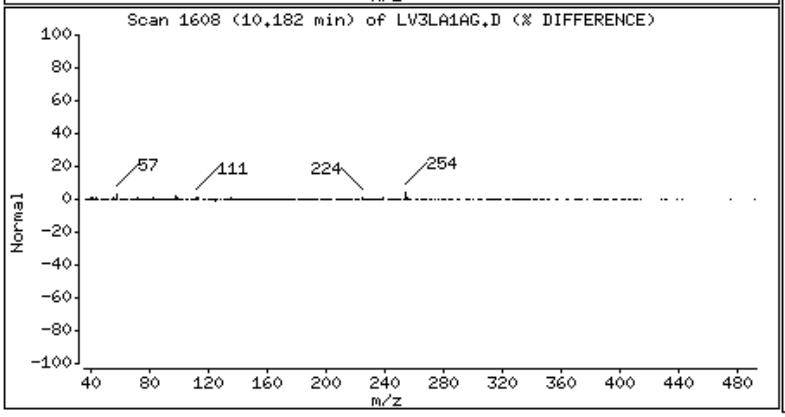


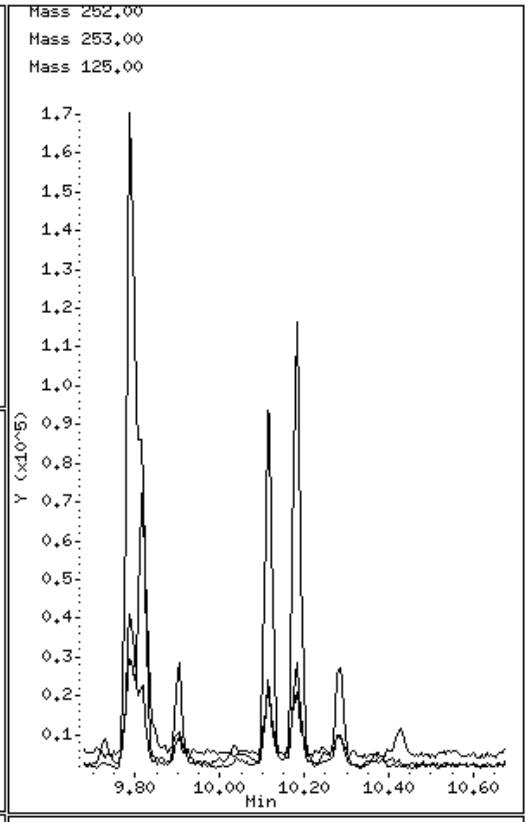
146 Benzo(a)pyrene

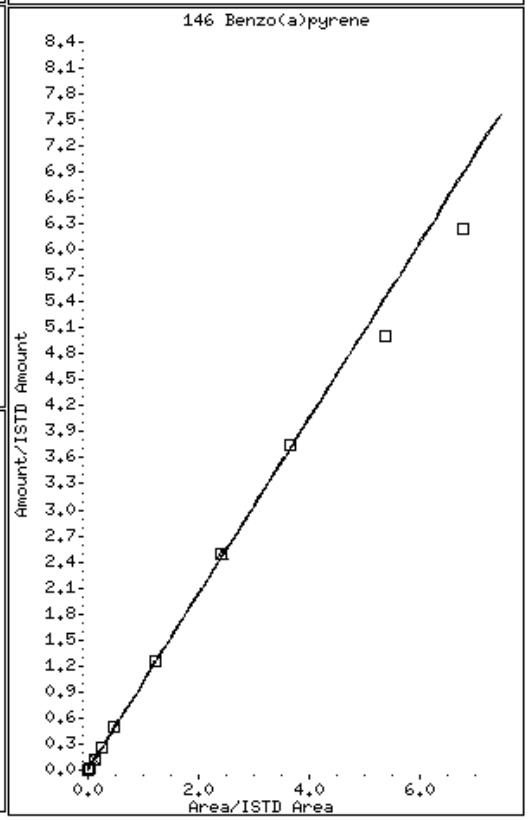




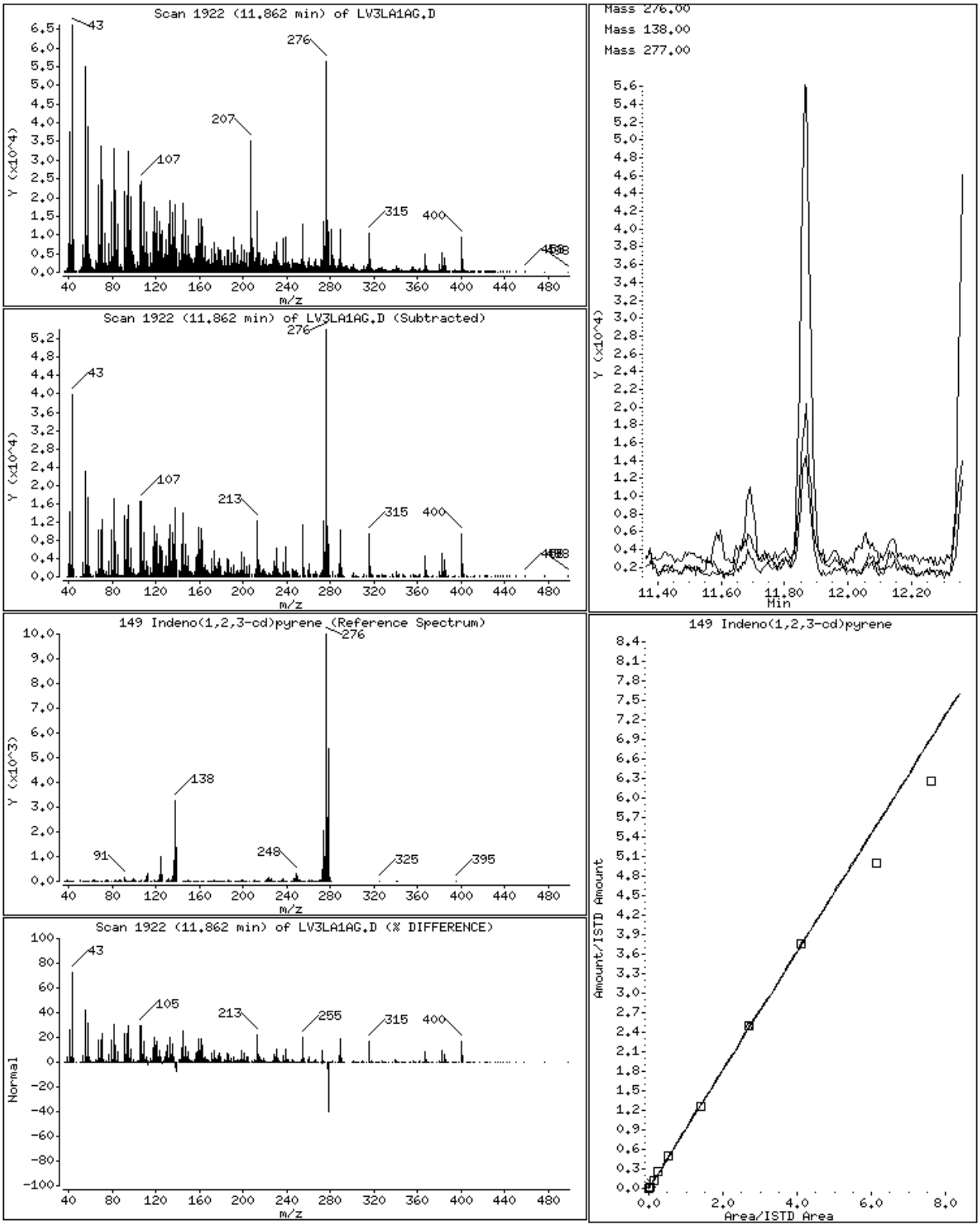




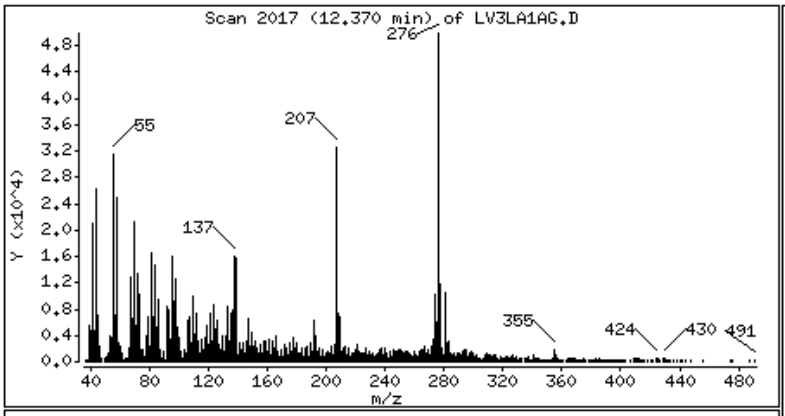


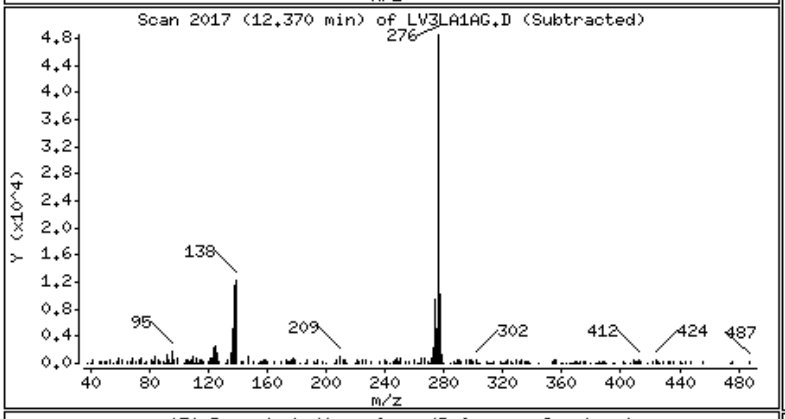


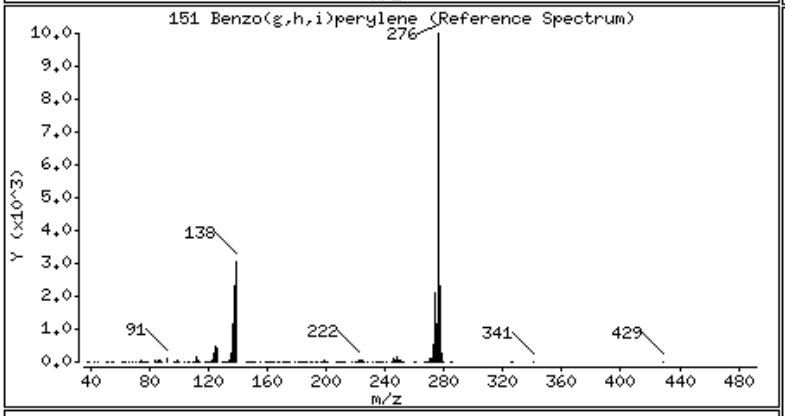
149 Indeno(1,2,3-cd)pyrene

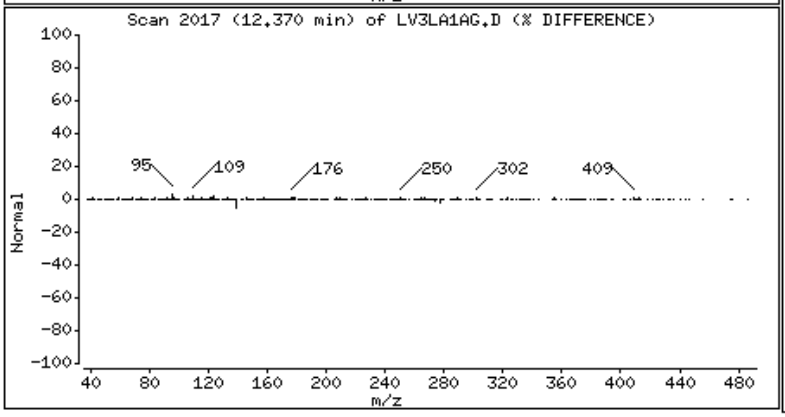


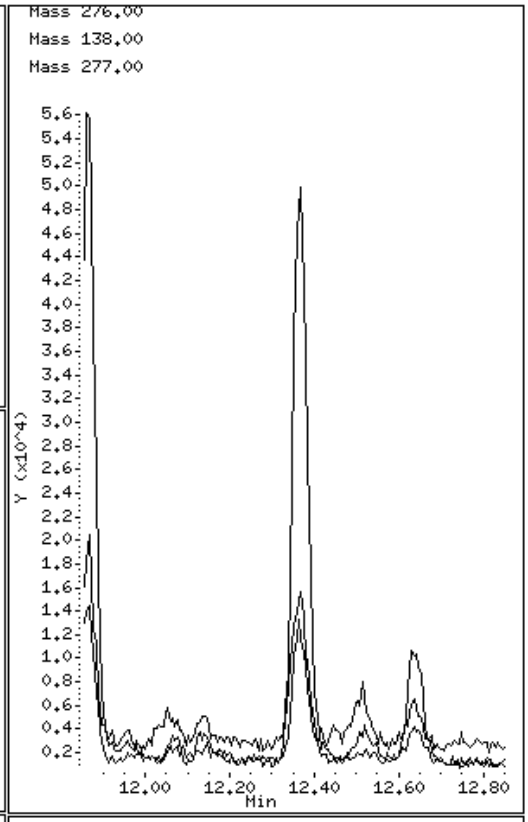
151 Benzo(g,h,i)perylene

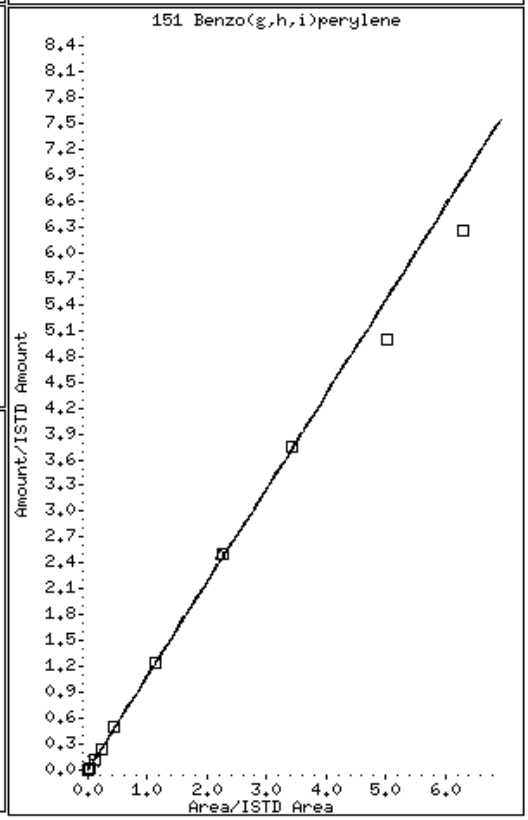




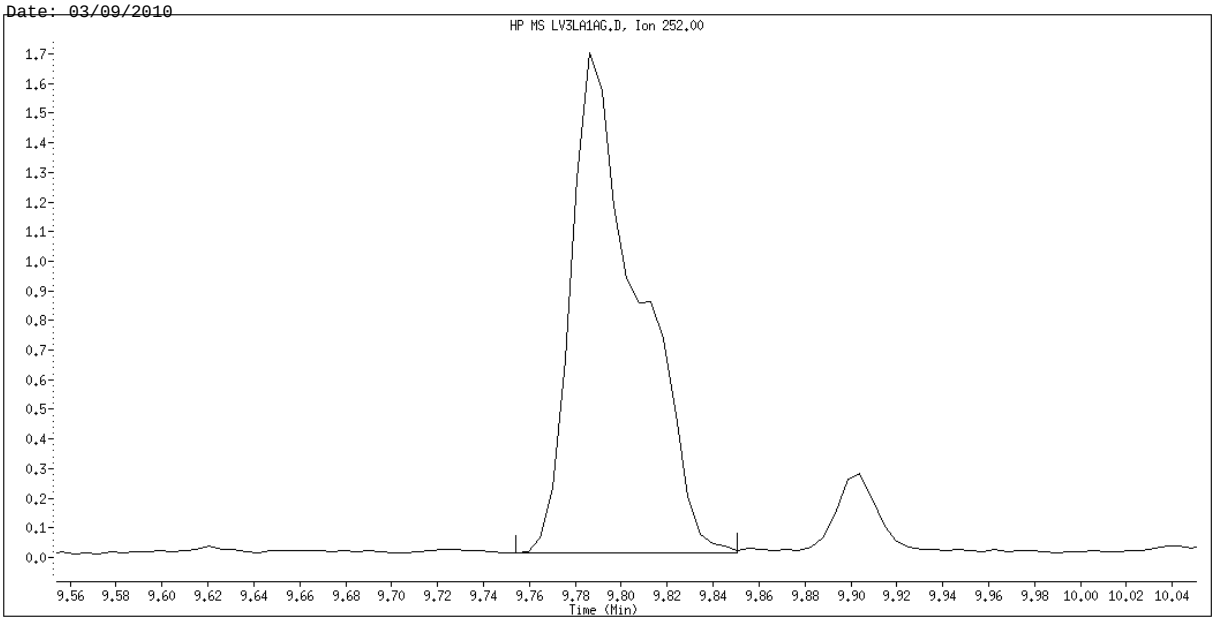




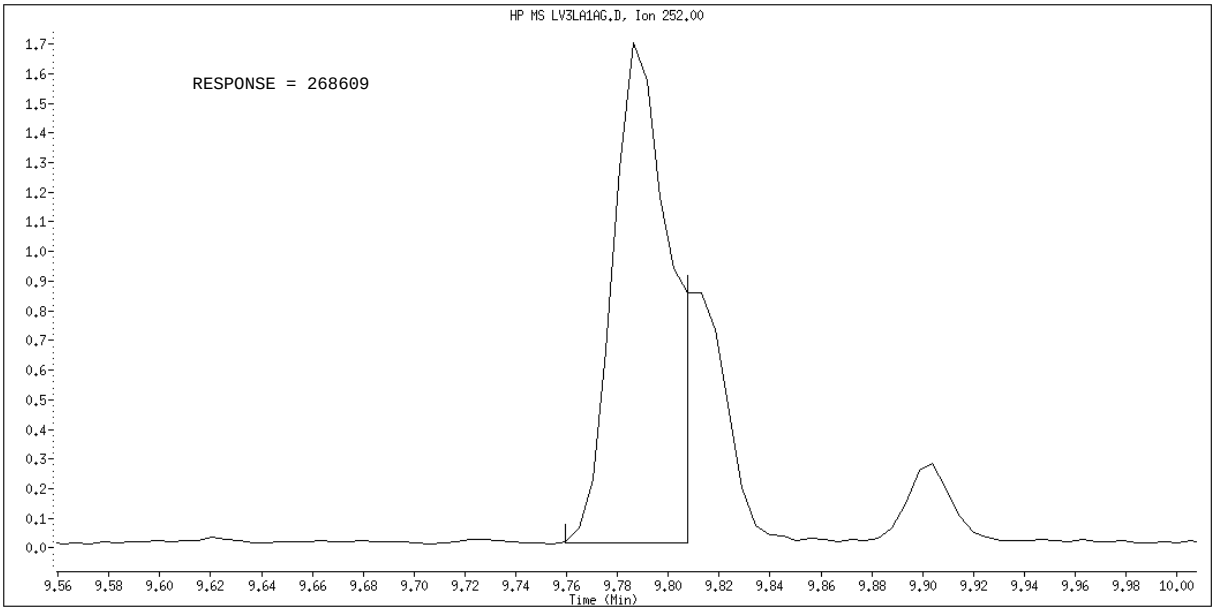




Data File Name: LV3LA1AG.D
Inj. Date and Time: 08-MAR-2010 14:07
Instrument ID: a4hp7.i
Client ID: F15SS-035M-5428-SO
Compound Name: Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/09/2010



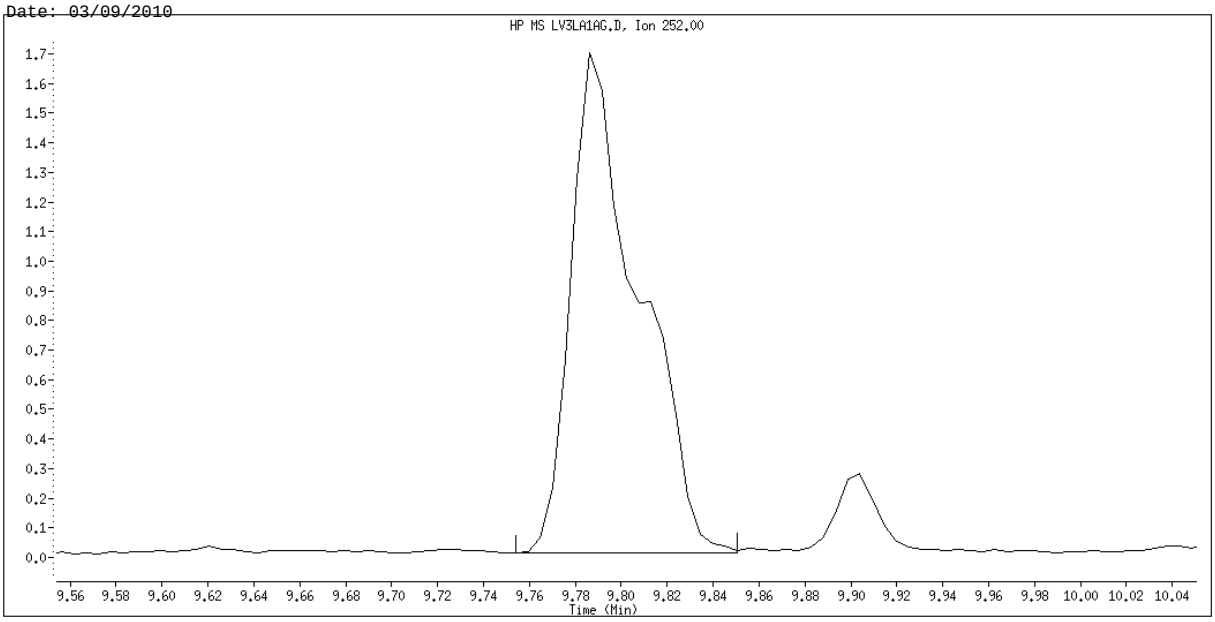
Original Integration



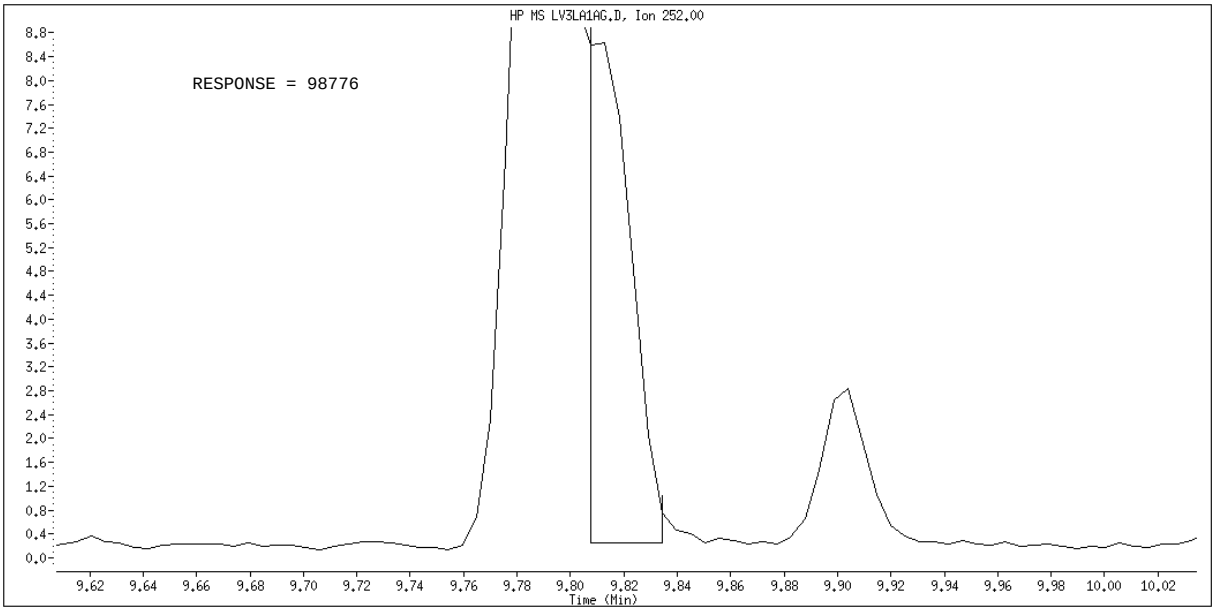
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Data File Name: LV3LA1AG.D
Inj. Date and Time: 08-MAR-2010 14:07
Instrument ID: a4hp7.i
Client ID: F15SS-035M-5428-SO
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Science Applications International Corp

Client Sample ID: F15SS-035M-6121-FD

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-015 **Work Order #...:** LV3LC1AP **Matrix.....:** SO
Date Sampled...: 02/24/10 12:00 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0060040
Dilution Factor: 4 **Initial Wgt/Vol:** 30.11 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 2.2 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	27	ug/kg	14
Acenaphthylene	ND	27	ug/kg	14
Anthracene	**48**	**27**	**ug/kg**	**14**
Benzo(a)anthracene	**140**	**27**	**ug/kg**	**14**
Benzo(b)fluoranthene	**220**	**27**	**ug/kg**	**14**
Benzo(k)fluoranthene	**70**	**27**	**ug/kg**	**14**
Benzo(ghi)perylene	**110**	**27**	**ug/kg**	**14**
Benzo(a)pyrene	**140**	**27**	**ug/kg**	**14**
Chrysene	**180**	**27**	**ug/kg**	**4.5**
Dibenzo(a,h)anthracene	**29**	**27**	**ug/kg**	**14**
Fluoranthene	**320**	**27**	**ug/kg**	**14**
Fluorene	ND	27	ug/kg	14
Indeno(1,2,3-cd)pyrene	**94**	**27**	**ug/kg**	**14**
Naphthalene	**180**	**27**	**ug/kg**	**14**
Phenanthrene	**250**	**27**	**ug/kg**	**14**
Pyrene	**230**	**27**	**ug/kg**	**14**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	64 DIL	(45 - 105)
2-Fluorophenol	72 DIL	(35 - 105)
Phenol-d5	67 DIL	(40 - 100)
2,4,6-Tribromophenol	63 DIL	(35 - 125)
Nitrobenzene-d5	64 DIL	(35 - 100)
Terphenyl-d14	76 DIL	(30 - 125)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\LV3LC1AP.D
Lab Smp Id: lv3lc1ap Client Smp ID: F15SS-035M-6121-FD
Inj Date : 08-MAR-2010 14:26
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3lc1ap,00308a.b,8270c-625,1-pah.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 13:55 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 15
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 1-pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.110	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
*	1 1,4-Dichlorobenzene-d4	152	3.565	3.560	(1.000)	349113	2.00000		(Q)
*	2 Naphthalene-d8	136	4.453	4.453	(1.000)	1491298	2.00000		
*	3 Acenaphthene-d10	164	5.721	5.721	(1.000)	881877	2.00000		
*	4 Phenanthrene-d10	188	6.807	6.807	(1.000)	1415166	2.00000		
*	5 Chrysene-d12	240	8.775	8.769	(1.000)	1737022	2.00000		
*	6 Perylene-d12	264	10.256	10.235	(1.000)	1645802	2.00000		
	51 Naphthalene	128	4.469	4.469	(1.004)	222393	0.32252	171.38	
	62 2-Methylnaphthalene	142	4.961	4.961	(1.114)	231076	0.61556	327.10	
	63 1-Methylnaphthalene	142	5.036	5.031	(1.131)	174425	0.40408	214.72	
	70 2-Chloronaphthalene	162	Compound Not Detected.						
	79 Acenaphthylene	152	Compound Not Detected.						
	82 Acenaphthene	153	Compound Not Detected.						
	86 Dibenzofuran	168	5.865	5.870	(1.025)	72168	0.11379	60.465	
	94 Fluorene	166	Compound Not Detected.						
	115 Phenanthrene	178	6.823	6.823	(1.002)	349315	0.45438	241.45	
	116 Anthracene	178	6.860	6.860	(1.008)	68193	0.08806	46.796	
	123 Fluoranthene	202	7.694	7.689	(1.130)	465424	0.59080	313.94	
	125 Pyrene	202	7.871	7.866	(0.897)	384399	0.42926	228.10	

136 Benzo(a)Anthracene	228	8.764	8.759 (0.999)	228575	0.26587	141.28
137 Chrysene	228	8.796	8.791 (1.002)	275322	0.33937	180.34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
141 Benzo(b)fluoranthene	252	9.791	9.780	(0.955)	346064	0.40909	217.38
142 Benzo(k)fluoranthene	252	9.818	9.807	(0.957)	115713	0.12855	68.311(QM)
146 Benzo(a)pyrene	252	10.187	10.176	(0.993)	206782	0.25463	135.31
149 Indeno(1,2,3-cd)pyrene	276	11.877	11.861	(1.158)	156175	0.17209	91.446
150 Dibenz(a,h)anthracene	278	11.888	11.877	(1.159)	40220	0.05265	27.976
151 Benzo(g,h,i)perylene	276	12.380	12.353	(1.207)	152571	0.20148	107.06
$ 154 Nitrobenzene-d5	82	3.940	3.940	(0.885)	180753	0.80221	426.28
$ 155 2-Fluorobiphenyl	172	5.207	5.207	(0.910)	405089	0.79623	423.10
$ 156 Terphenyl-d14	244	7.946	7.940	(0.906)	520559	0.95398	506.93
$ 157 Phenol-d5	99	3.287	3.260	(0.922)	330851	1.26496	672.18
$ 158 2-Fluorophenol	112	2.763	2.688	(0.775)	267851	1.35300	718.96
$ 159 2,4,6-Tribromophenol	330	6.293	6.288	(1.100)	70517	1.18488	629.62
$ 186 2-Chlorophenol-d4	132	3.421	3.405	(0.959)	288605	1.39587	741.74
$ 187 1,2-Dichlorobenzene-d4	152	3.678	3.667	(1.031)	101876	0.73028	388.06

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

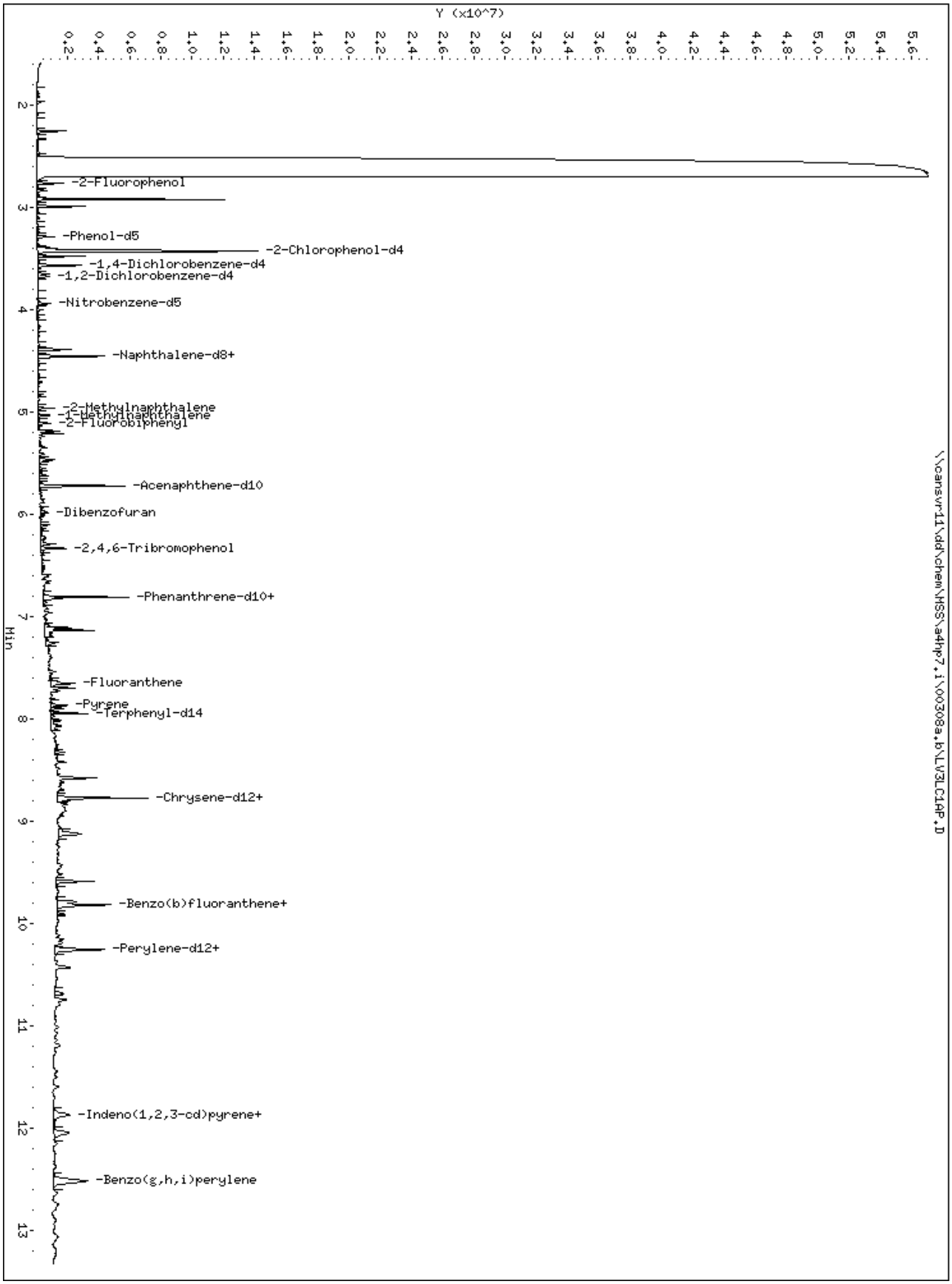
Instrument ID: a4hp7.i
Lab File ID: LV3LC1AP.D
Lab Smp Id: lv3lc1ap
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 10:16
Client Smp ID: F15SS-035M-6121-FD
Level: LOW
Sample Type: SOIL

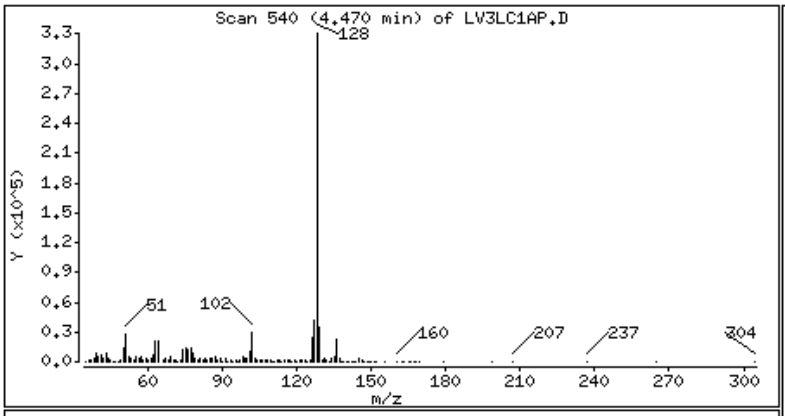
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	388613	194307	777226	349113	-10.16
2 Naphthalene-d8	1628032	814016	3256064	1491298	-8.40
3 Acenaphthene-d10	875709	437855	1751418	881877	0.70
4 Phenanthrene-d10	1398875	699438	2797750	1415166	1.16
5 Chrysene-d12	1597704	798852	3195408	1737022	8.72
6 Perylene-d12	1473841	736921	2947682	1645802	11.67

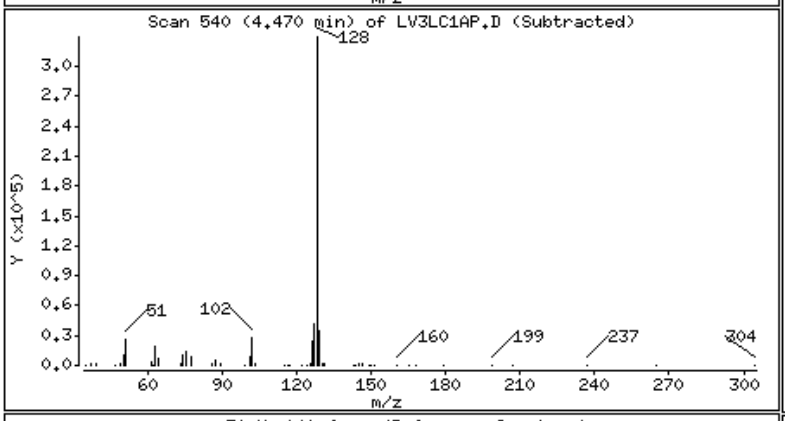
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.56	3.06	4.06	3.57	0.15
2 Naphthalene-d8	4.45	3.95	4.95	4.45	0.00
3 Acenaphthene-d10	5.72	5.22	6.22	5.72	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.77	8.27	9.27	8.78	0.06
6 Perylene-d12	10.24	9.74	10.74	10.26	0.21

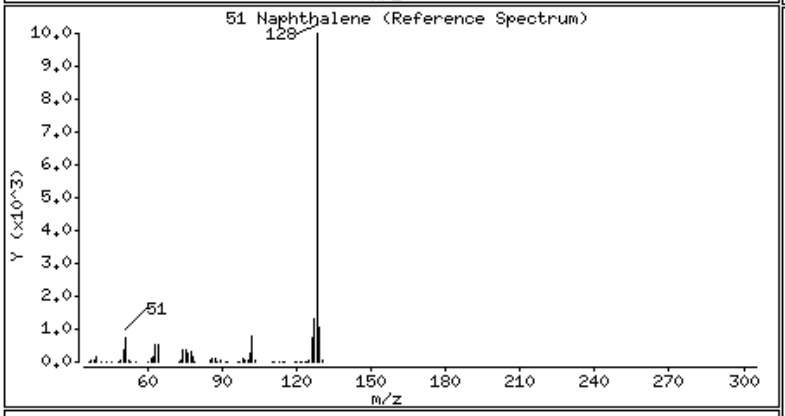
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

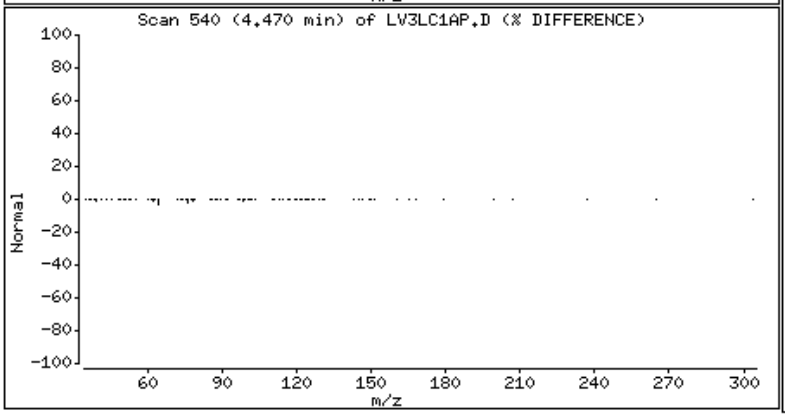

Y (x10^7)
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6
2
3
4
5
6
7
8
9
10
11
12
13
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8+
-2-Methylnaphthalene
-1-Methylnaphthalene
-2-Fluorobiphenyl
-Acenaphthene-d10
-Dibenzofuran
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-Fluoranthene
-Pyrene
-Terphenyl-d14
-Chrysene-d12+
-Benzo(b)fluoranthene+
-Perylene-d12+
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\cansvr11\dd\chem\HSS\a4hp7.i\00308a.b\LW3LC14P.D

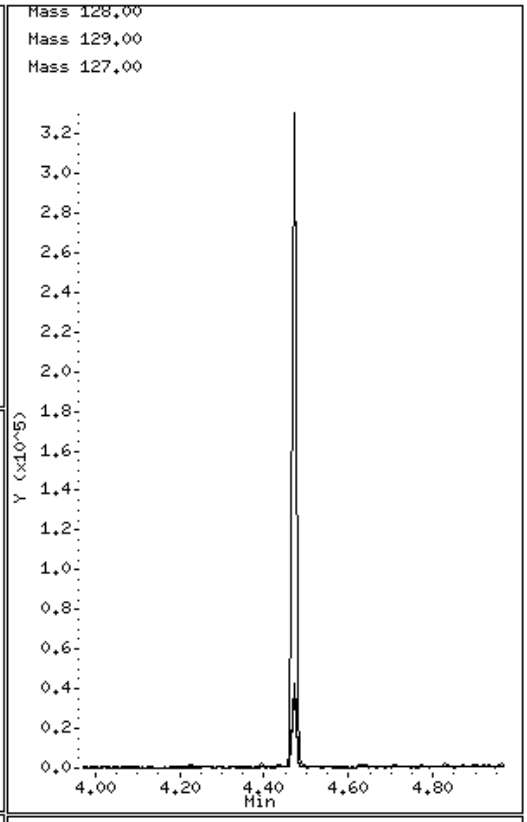
51 Naphthalene

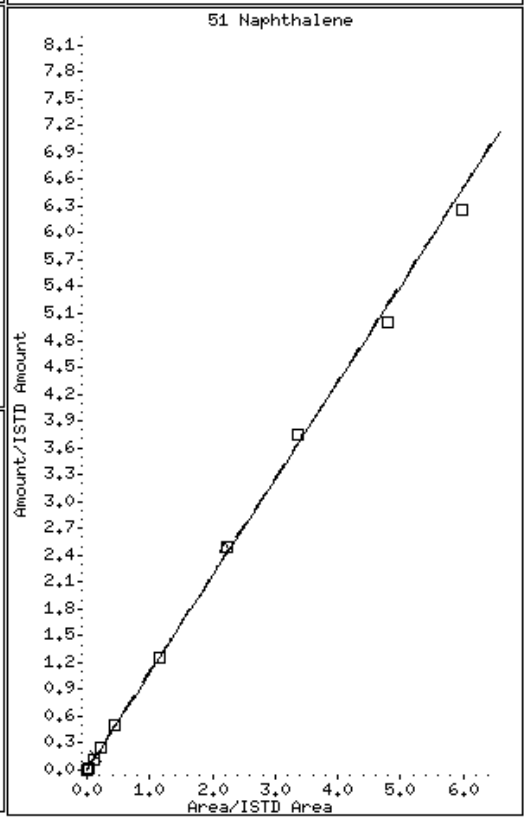




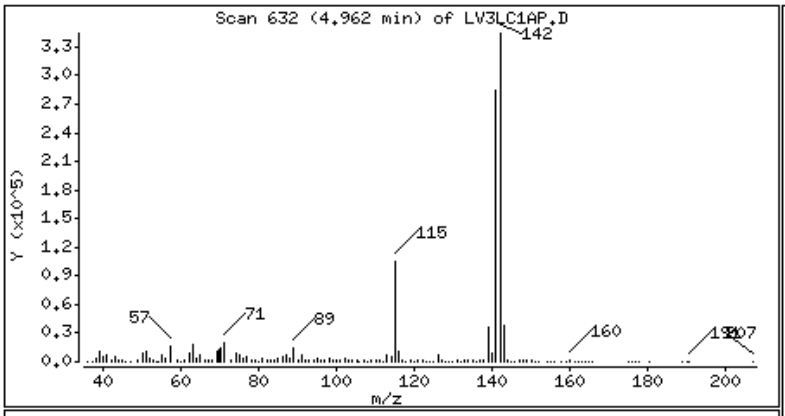


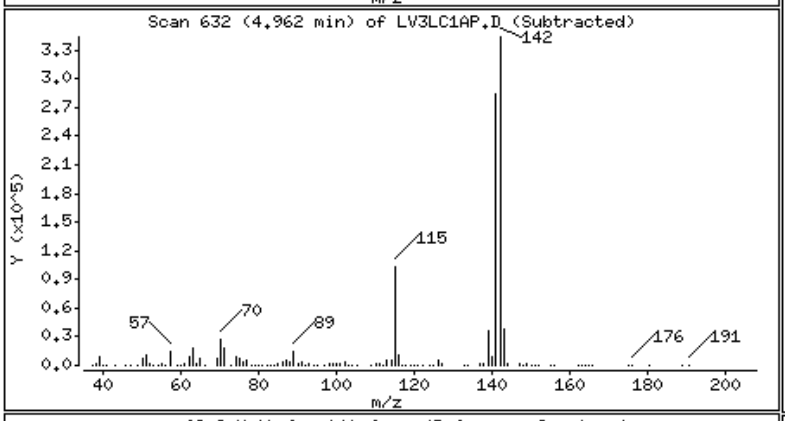


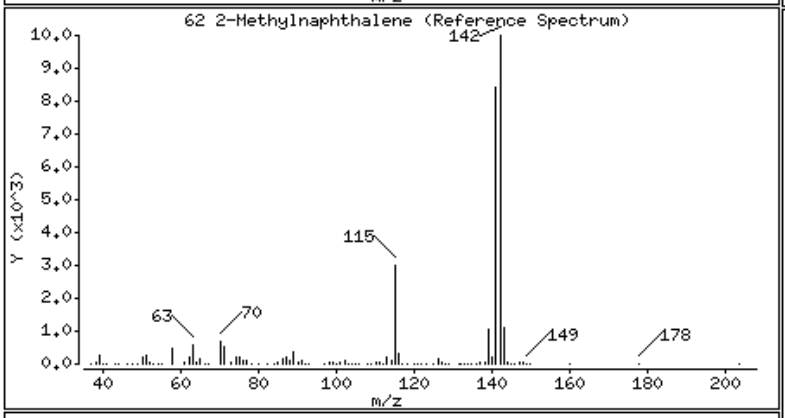


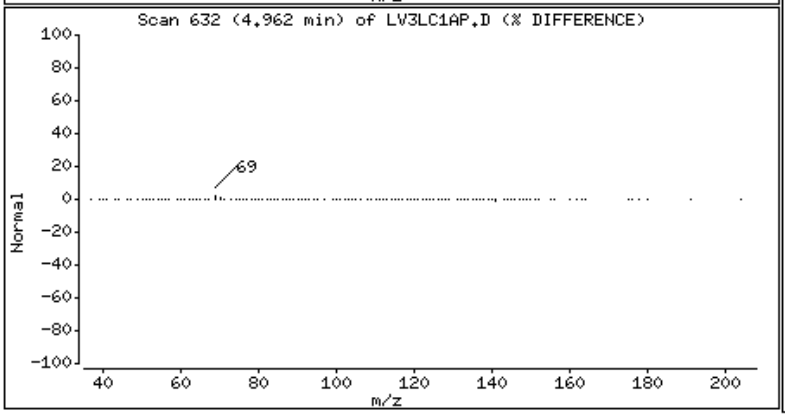


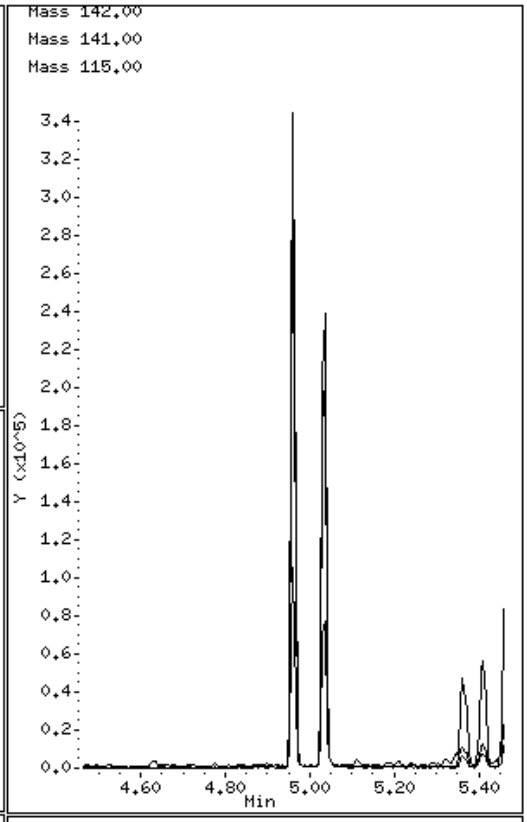
62 2-Methylnaphthalene

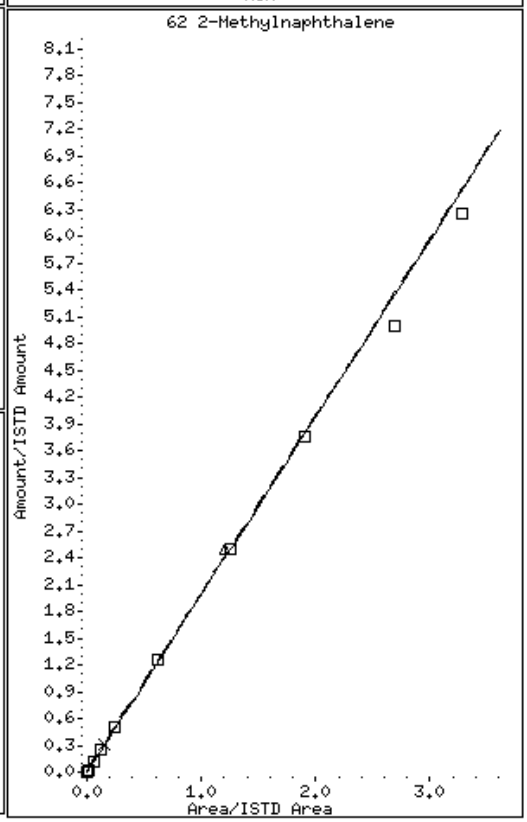




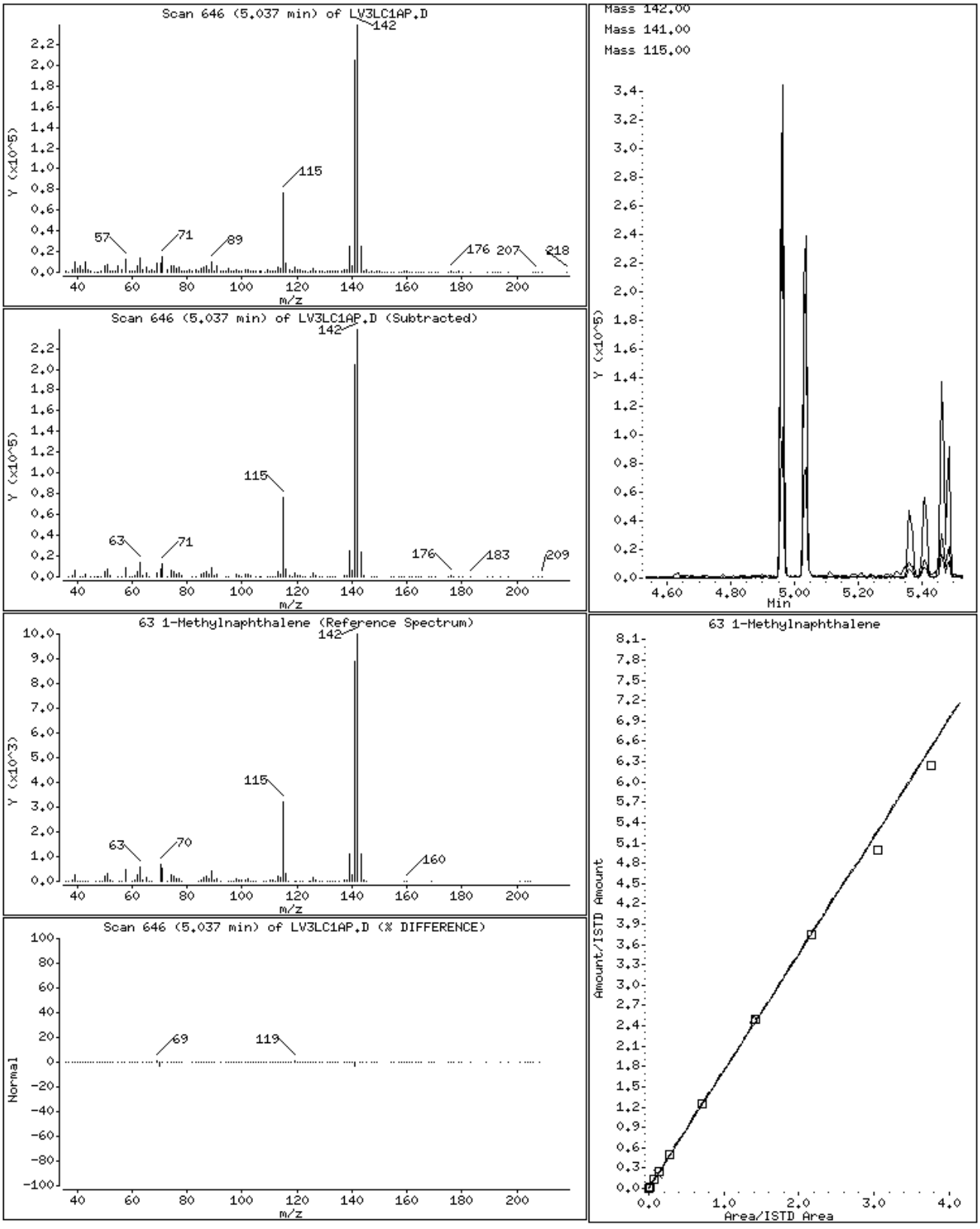




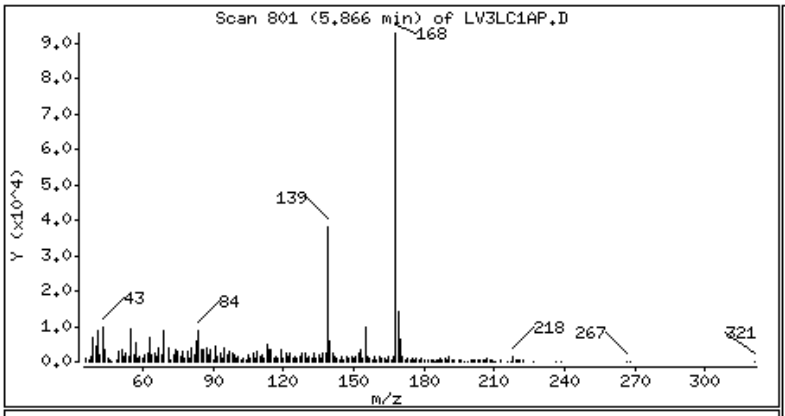


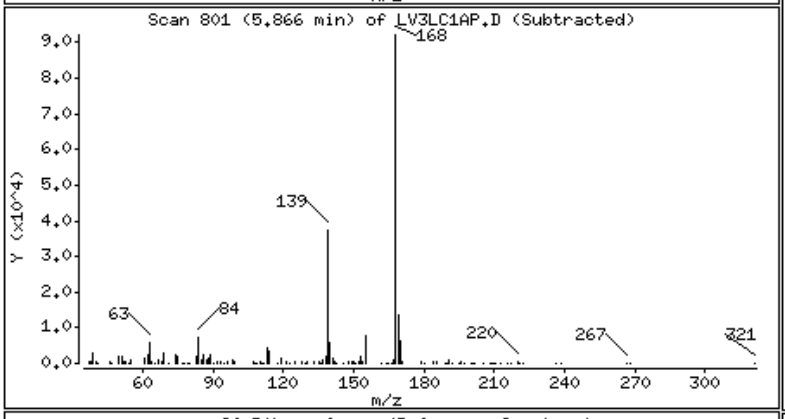


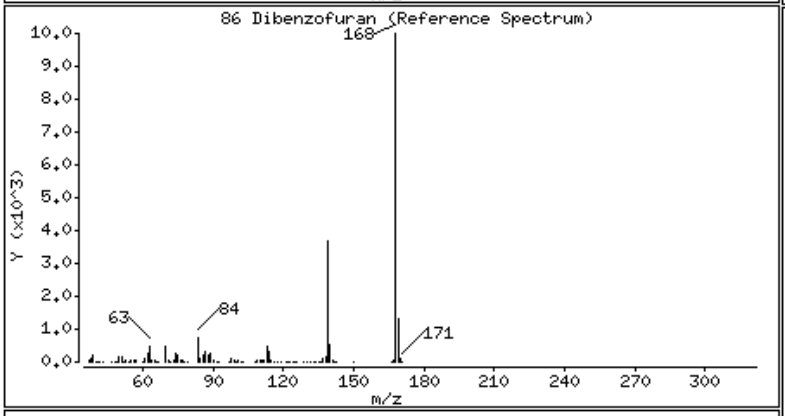
63 1-Methylnaphthalene

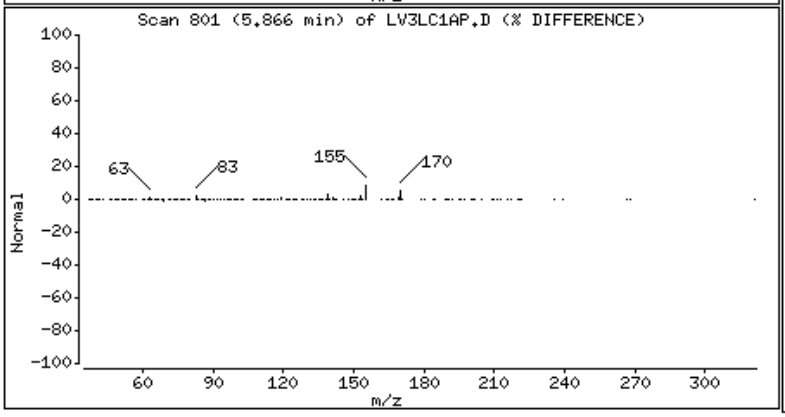


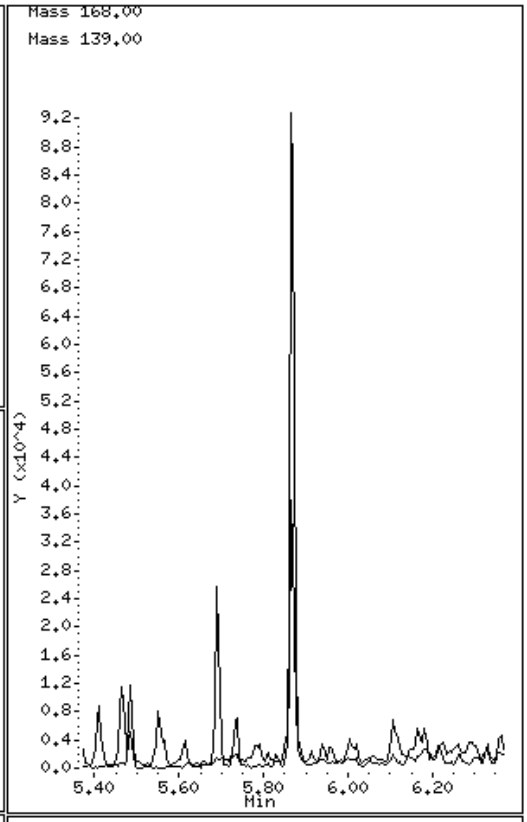
86 Dibenzofuran

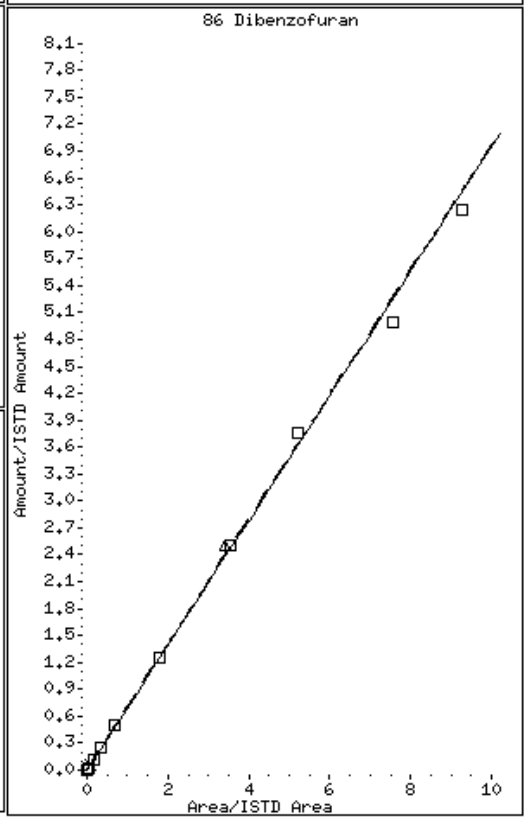




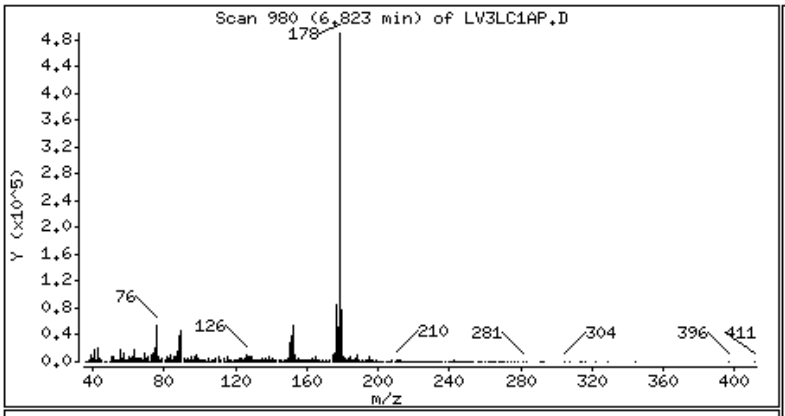


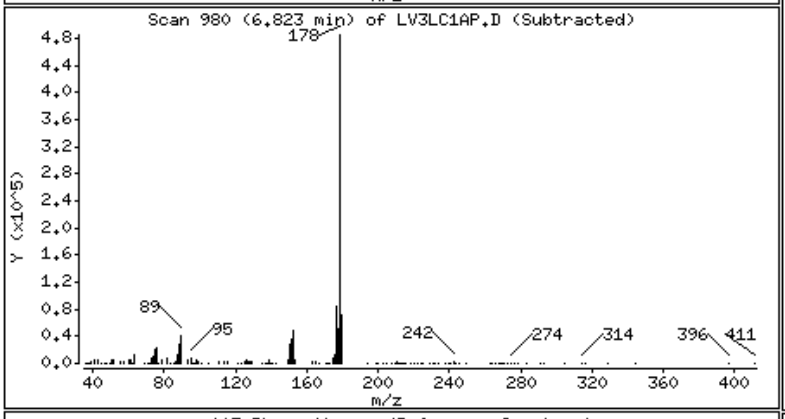


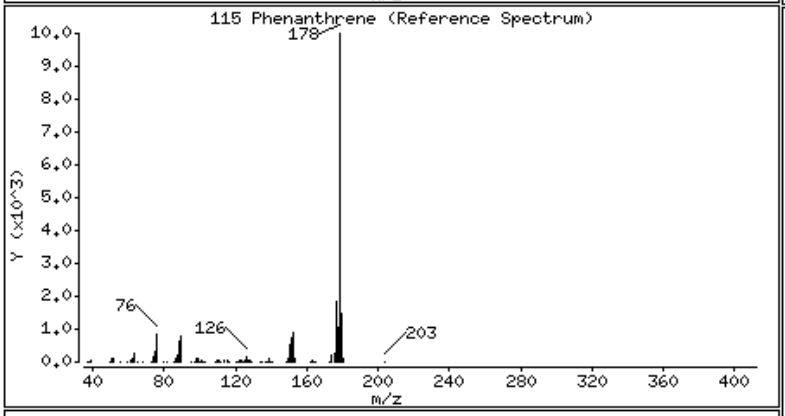


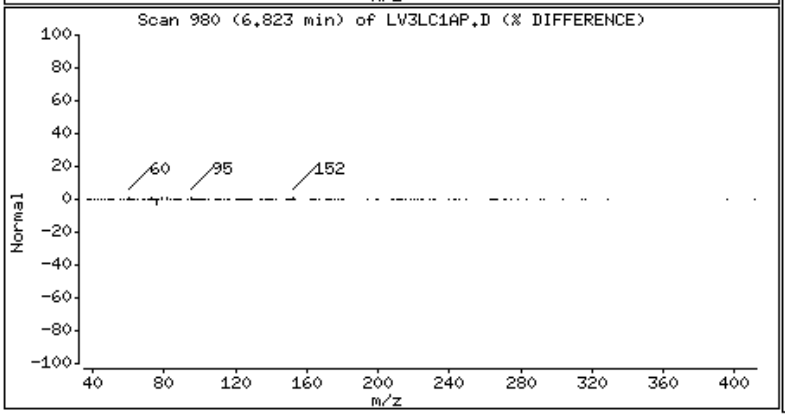


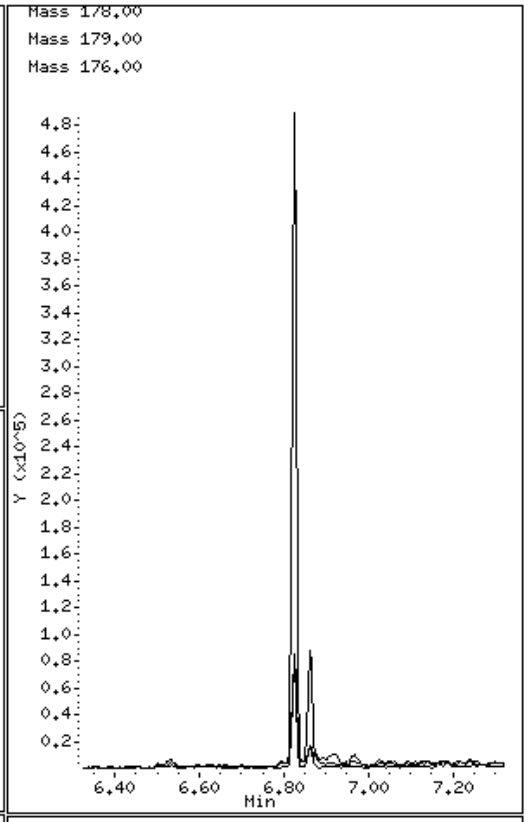
115 Phenanthrene

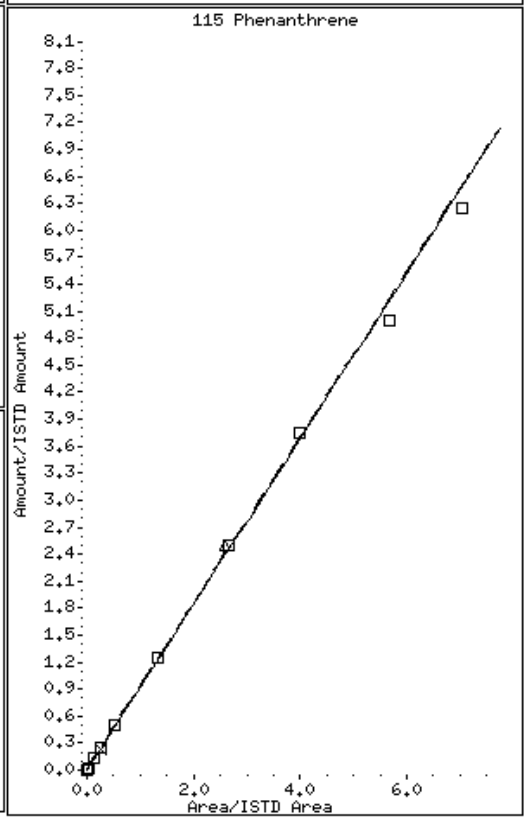




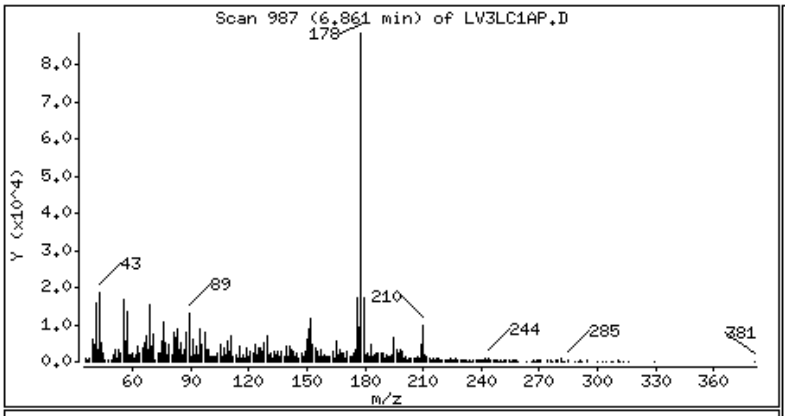


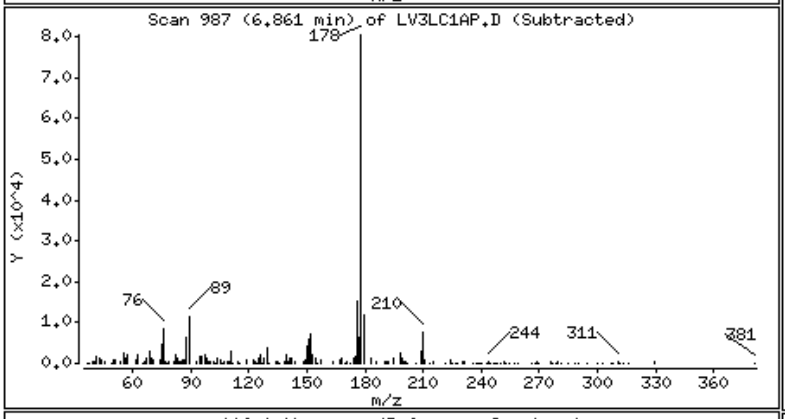


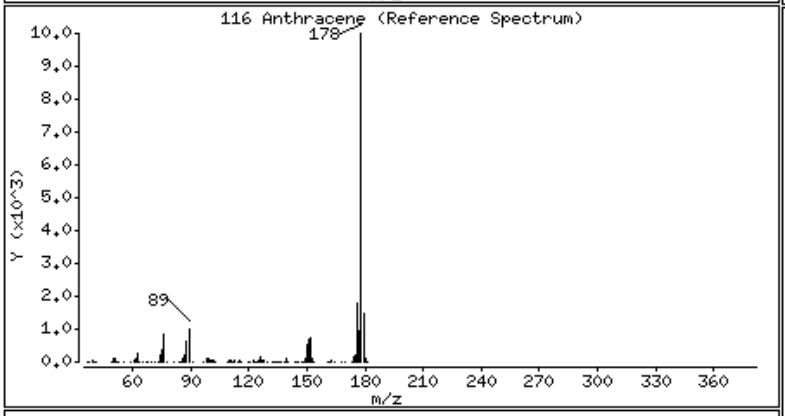


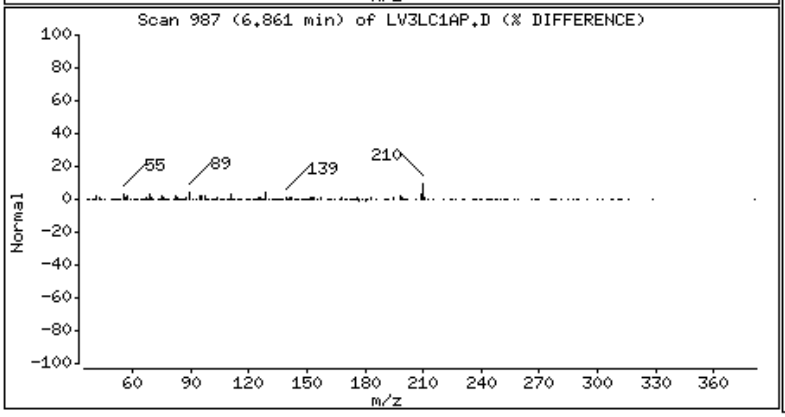


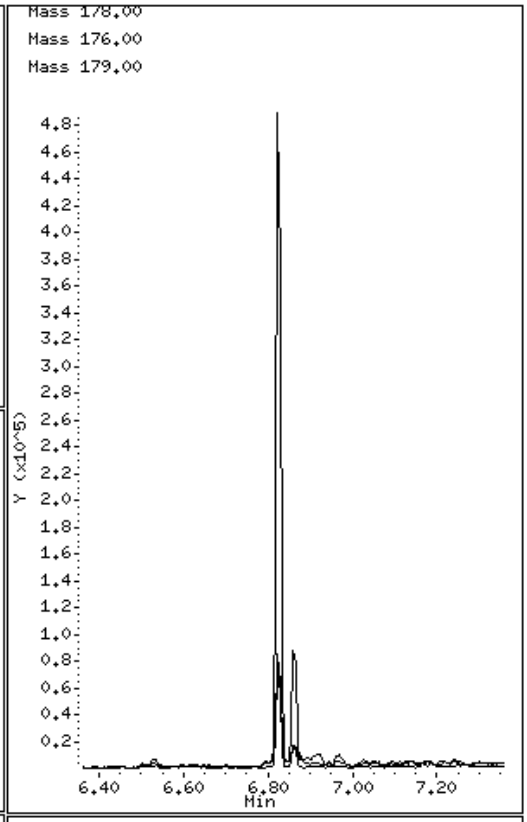
116 Anthracene

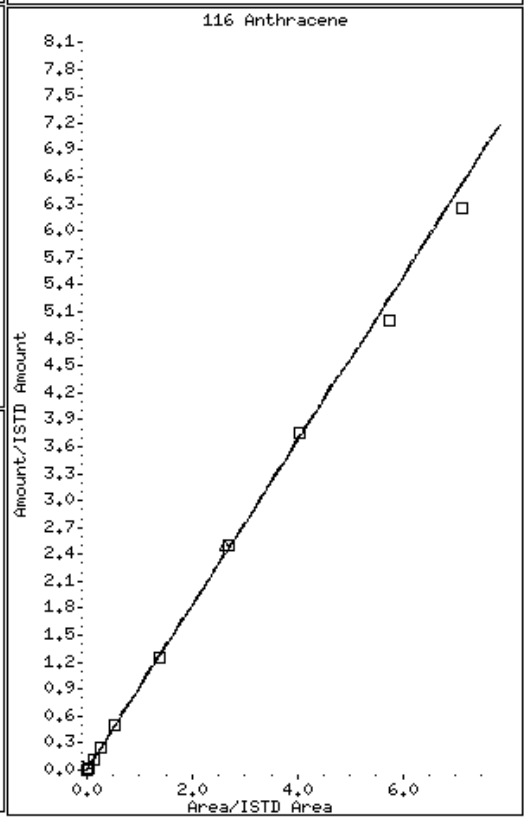




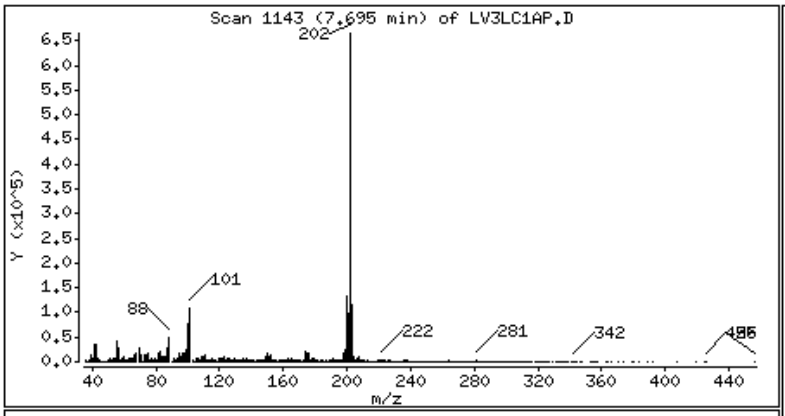


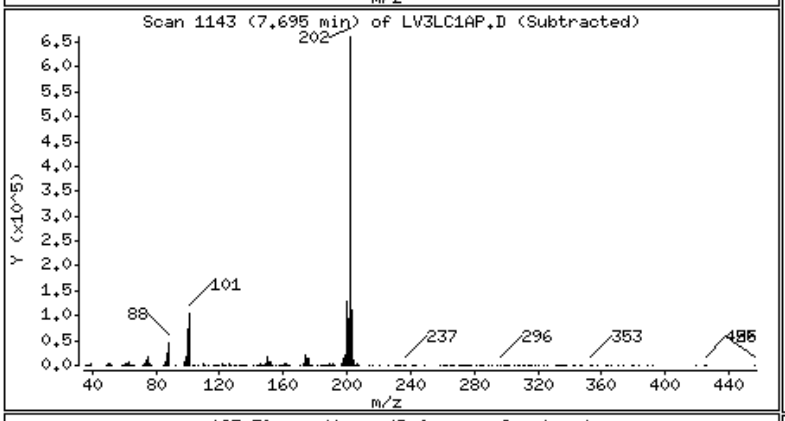


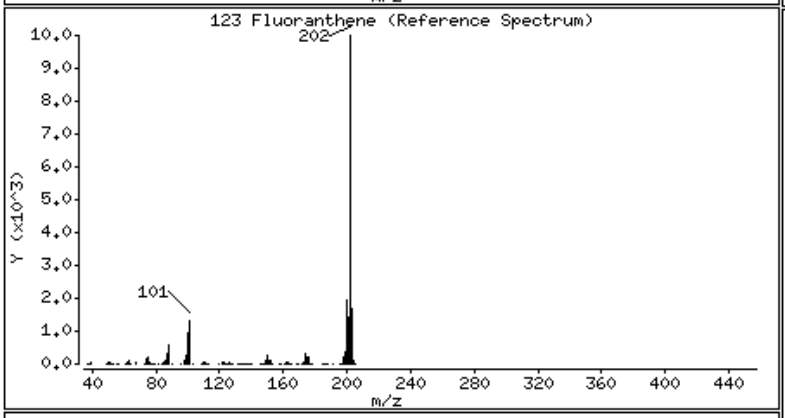


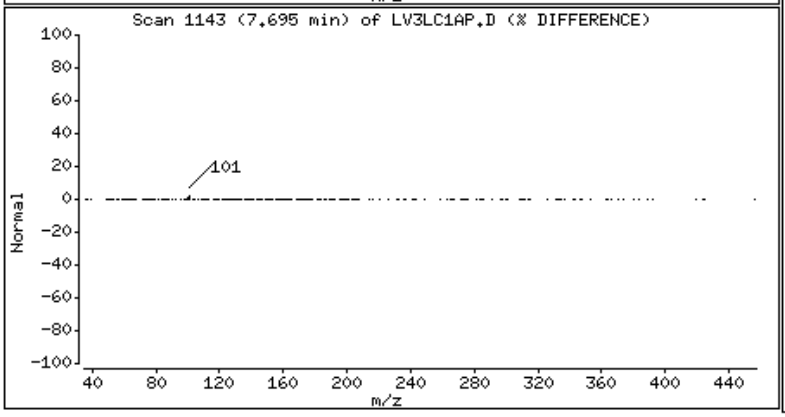


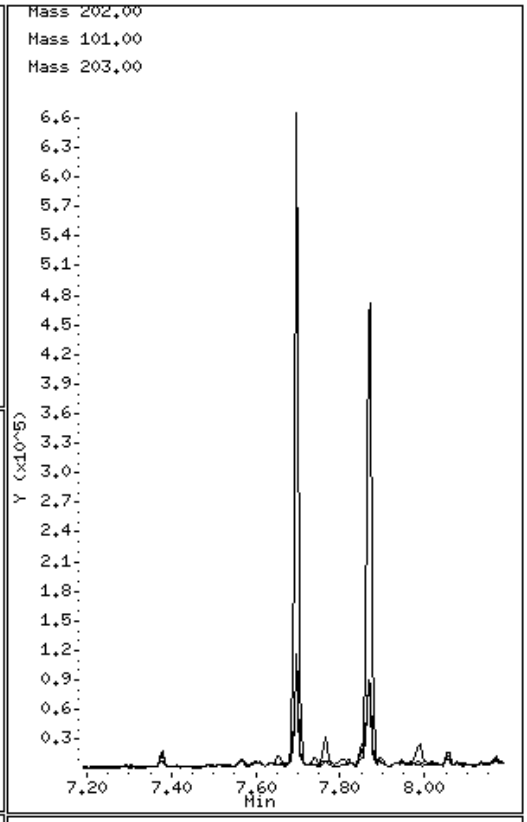
123 Fluoranthene

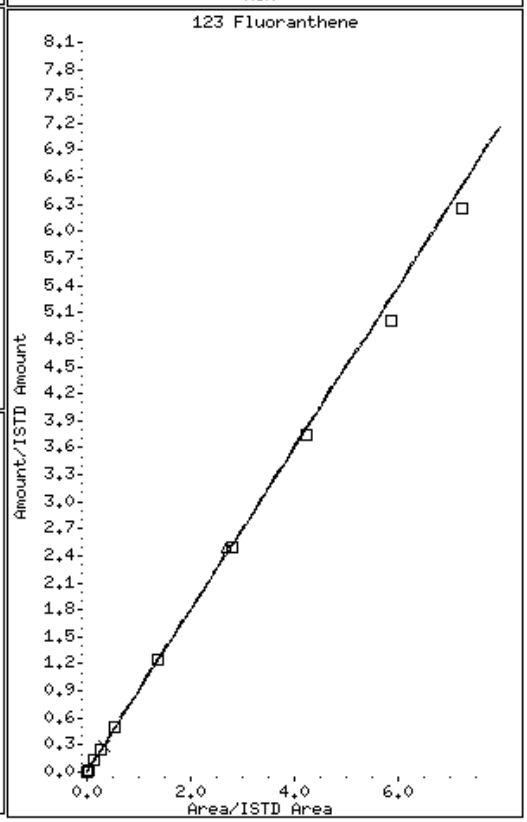




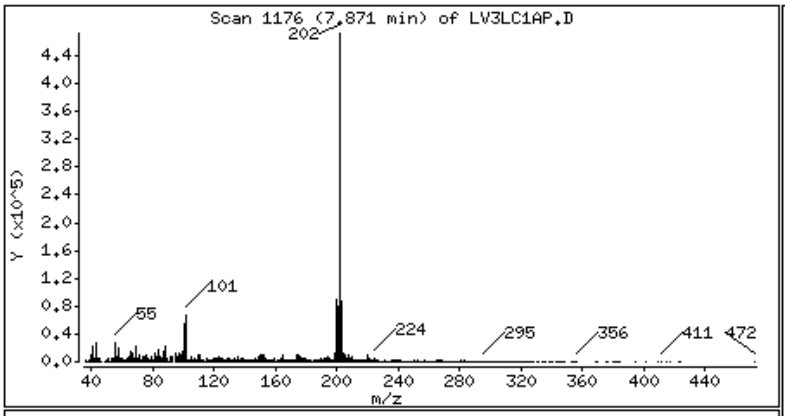


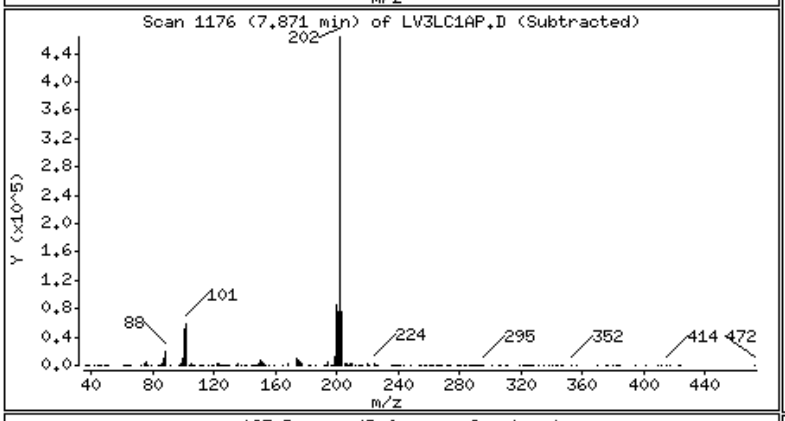


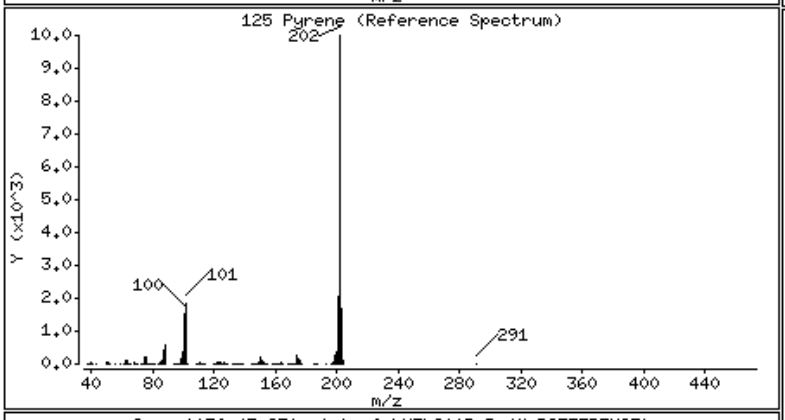


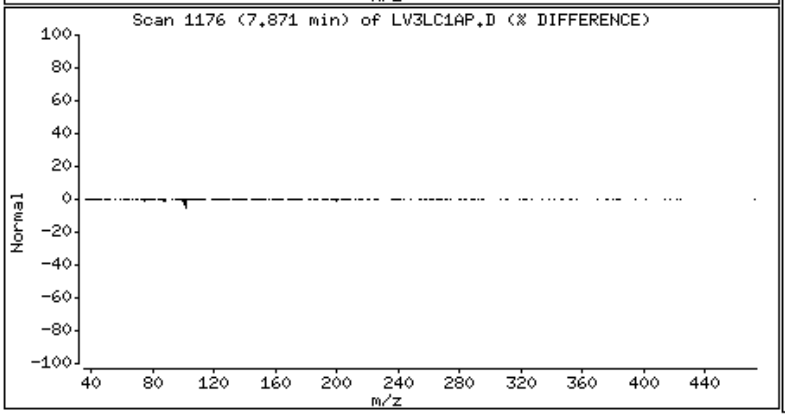


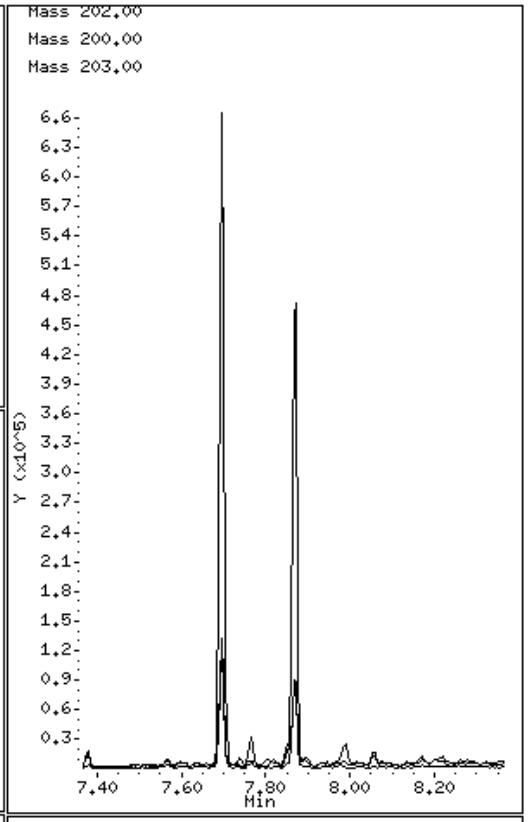
125 Pyrene

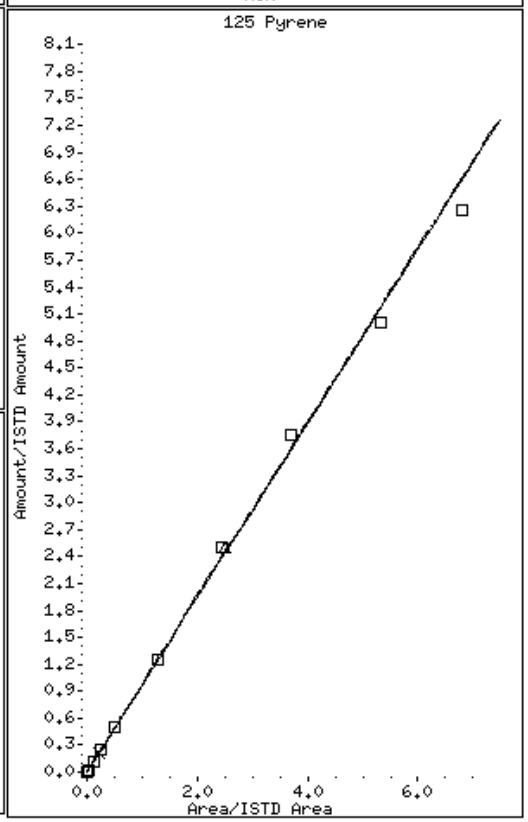

Scan 1176 (7.871 min) of LV3LC1AP.D
202
101
55
224
295
356
411
472
Y (x10^5)
m/z


Scan 1176 (7.871 min) of LV3LC1AP.D (Subtracted)
202
101
88
224
295
352
414
472
Y (x10^5)
m/z

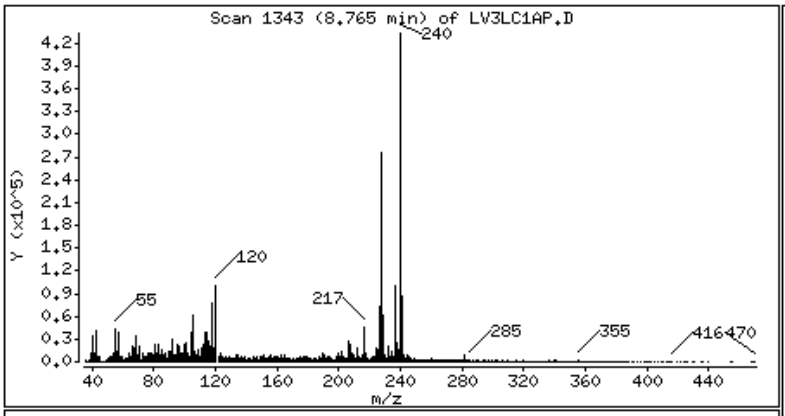

125 Pyrene (Reference Spectrum)
202
101
100
291
Y (x10^3)
m/z

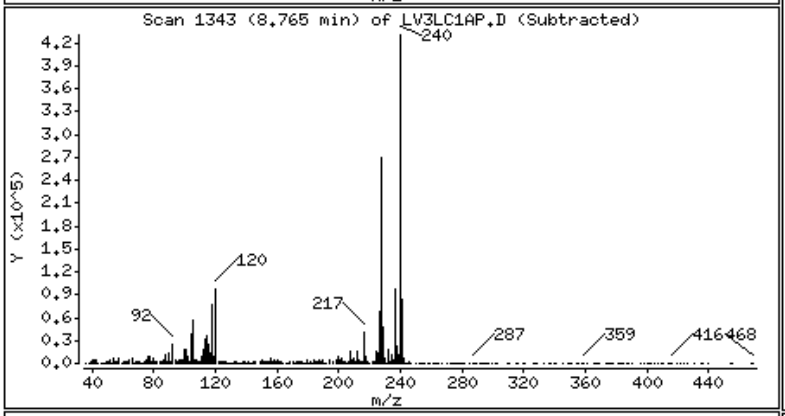

Scan 1176 (7.871 min) of LV3LC1AP.D (% DIFFERENCE)
Normal
m/z

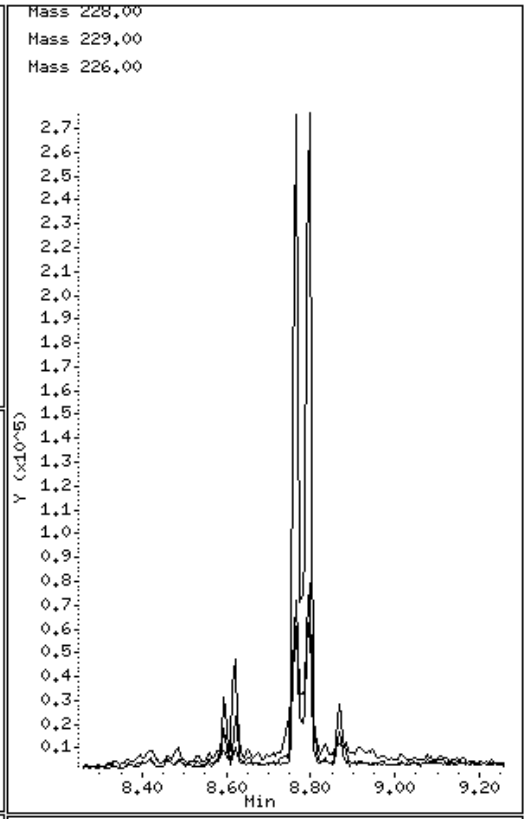

Mass 202.00
Mass 200.00
Mass 203.00
Y (x10^5)
Min

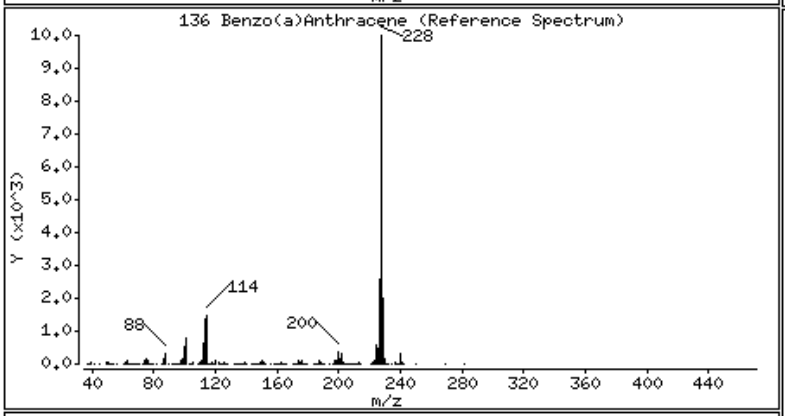

125 Pyrene
Amount/ISTD Amount
Area/ISTD Area

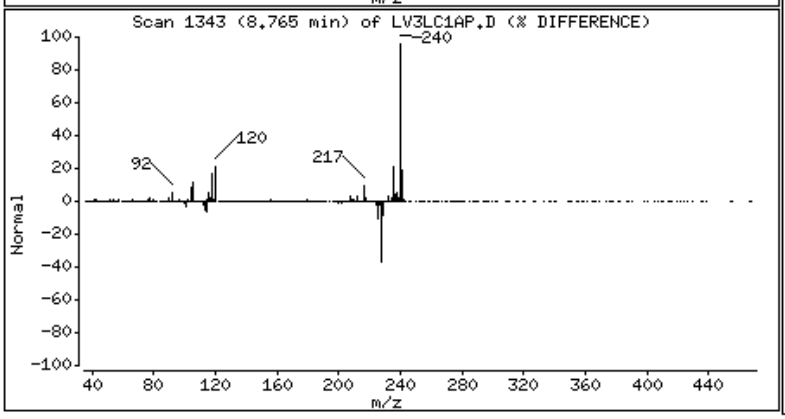
136 Benzo(a)Anthracene

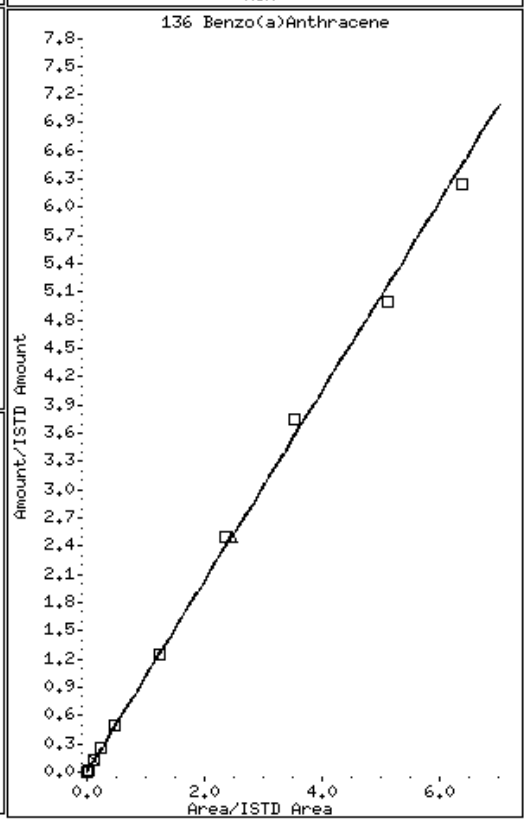




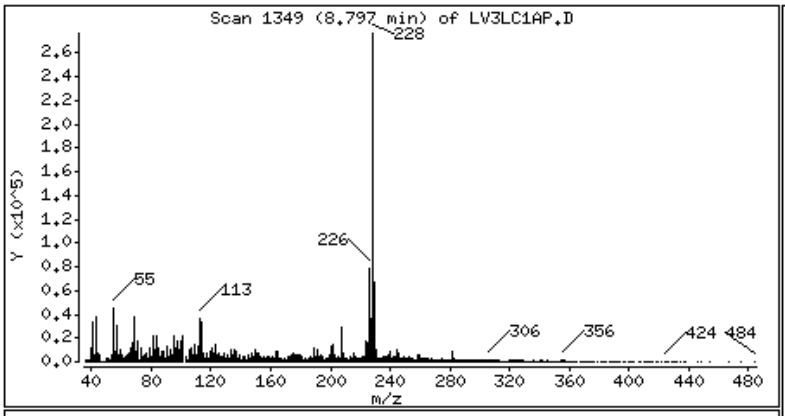


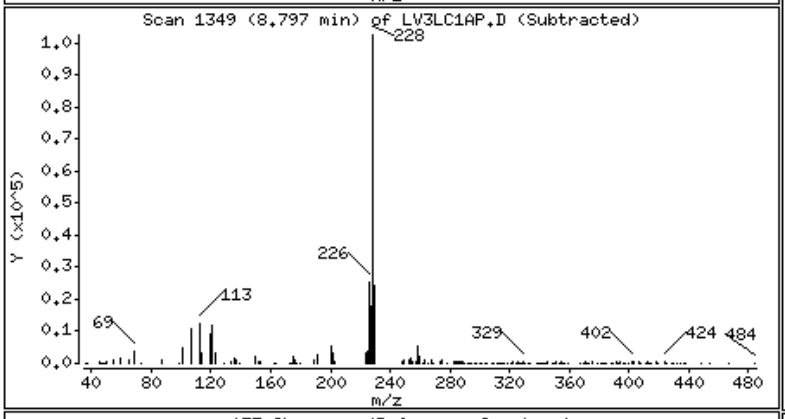


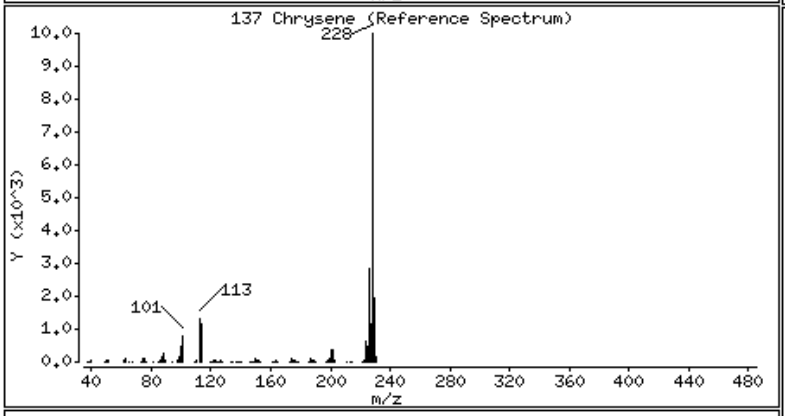


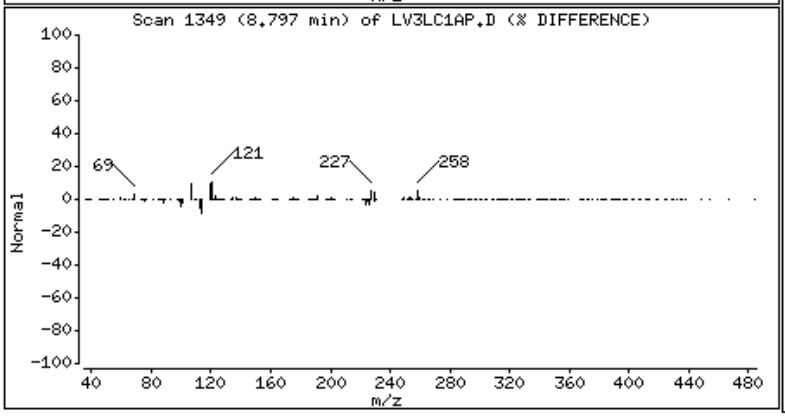


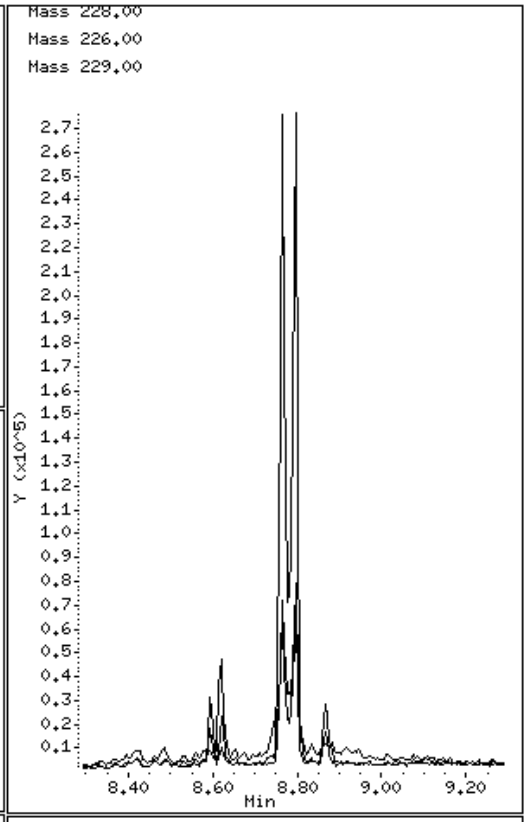
137 Chrysene

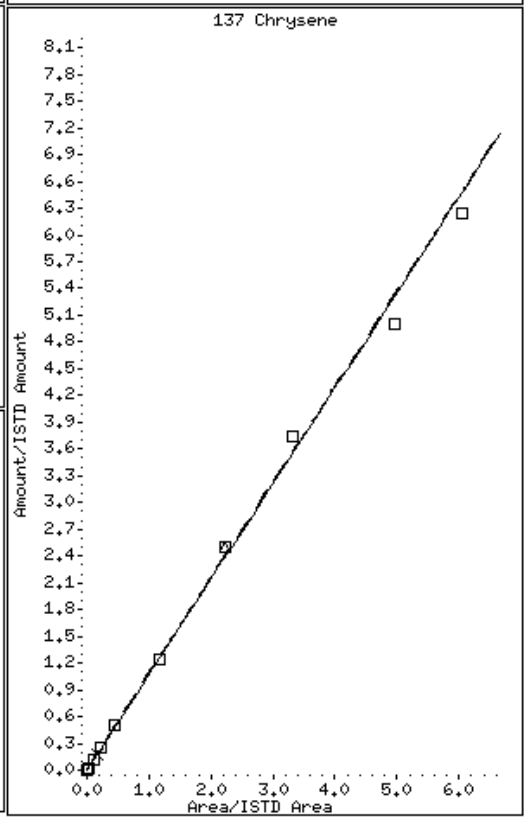




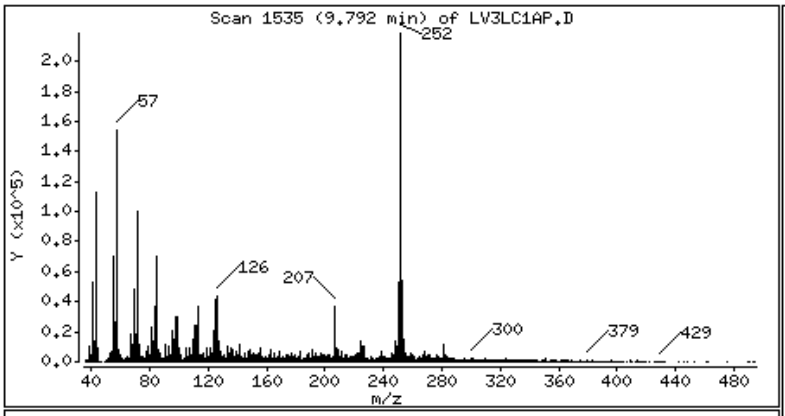


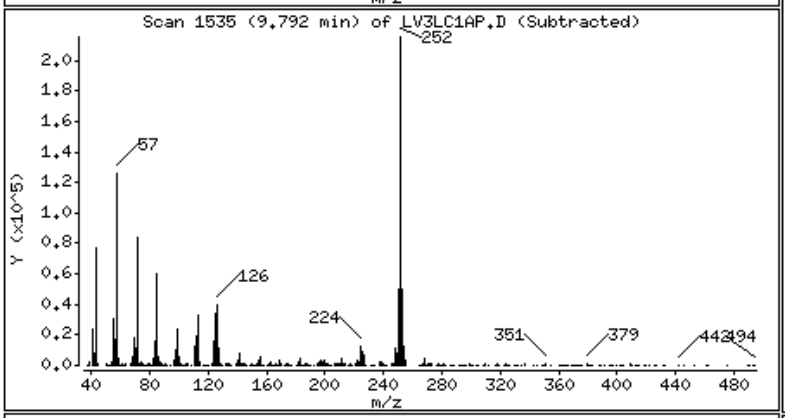


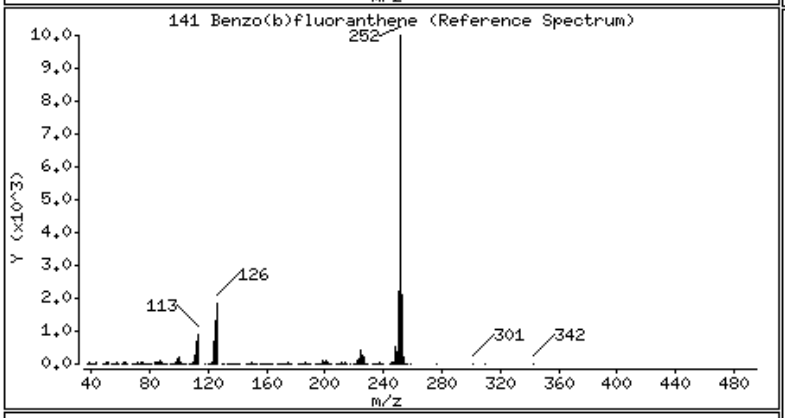


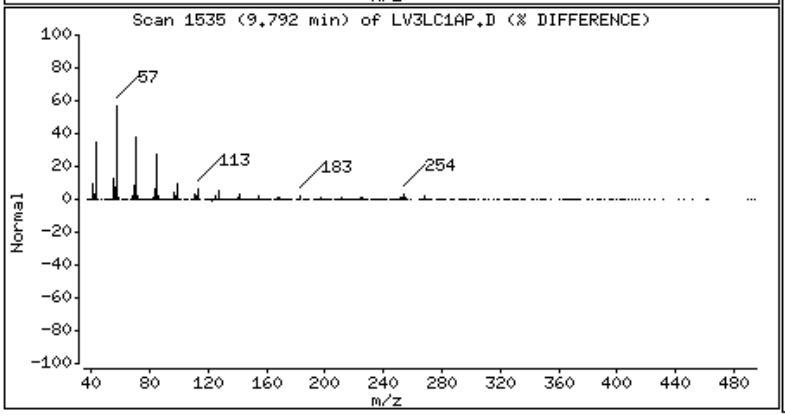


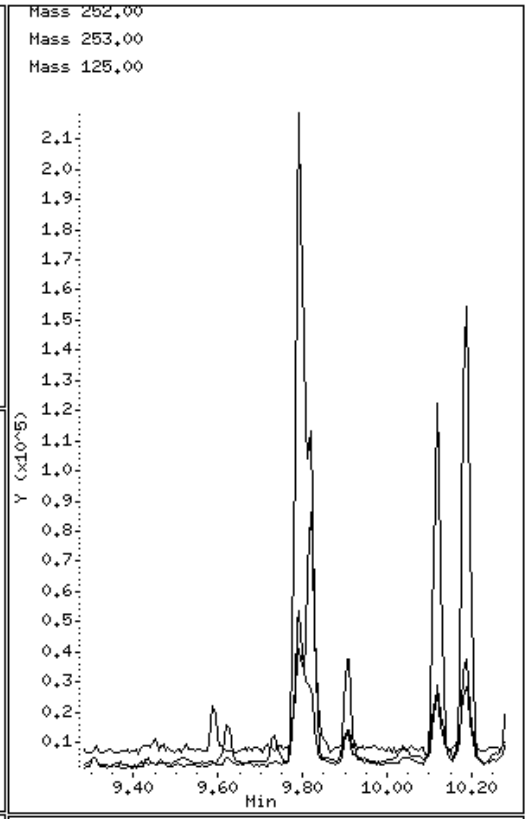
141 Benzo(b)fluoranthene

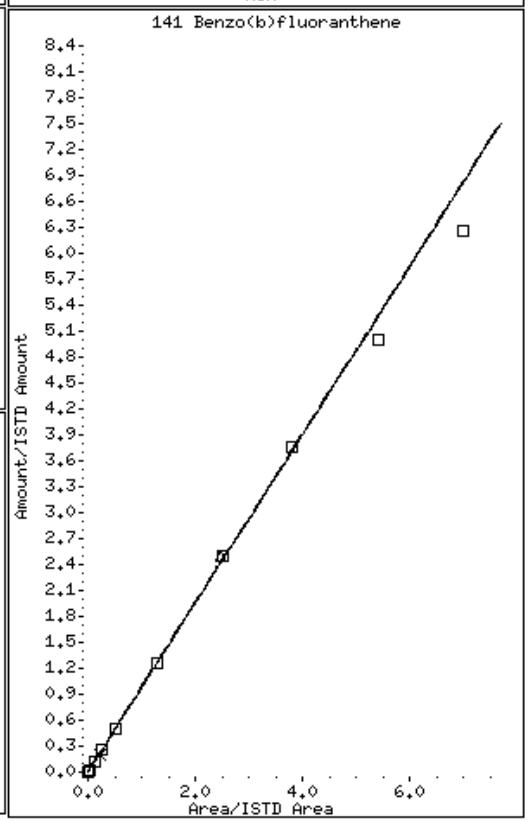




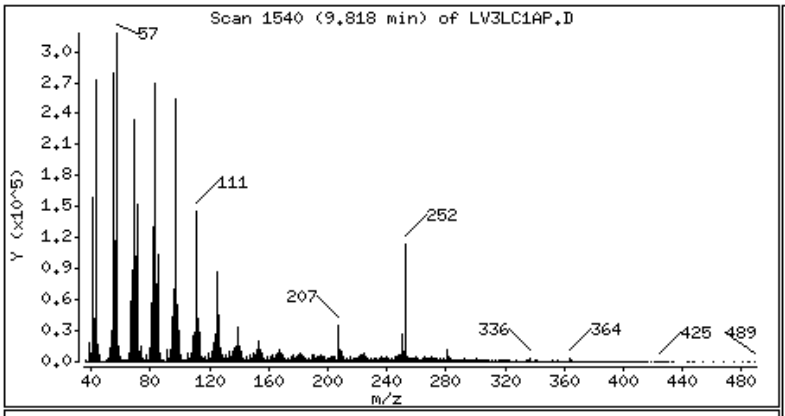


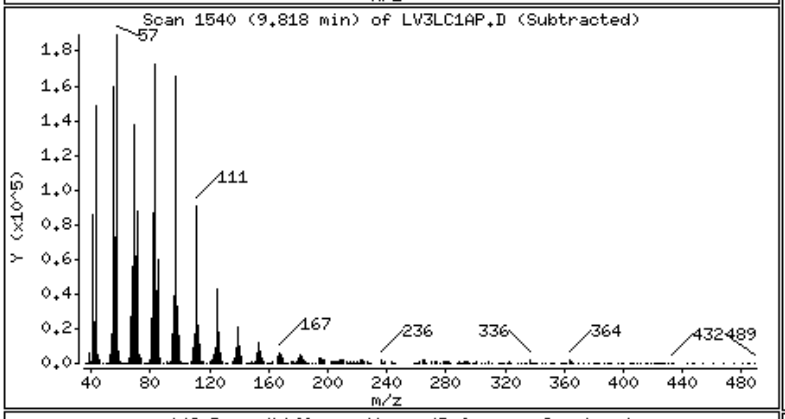


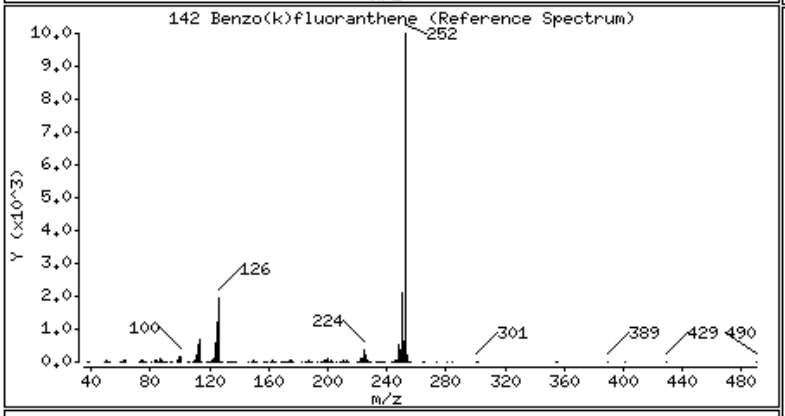


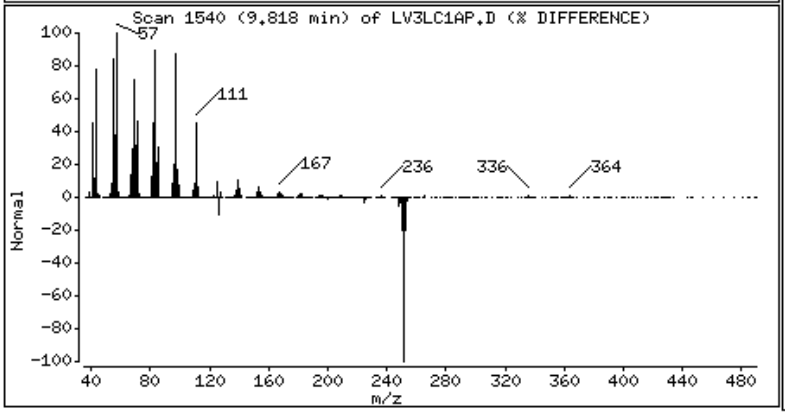


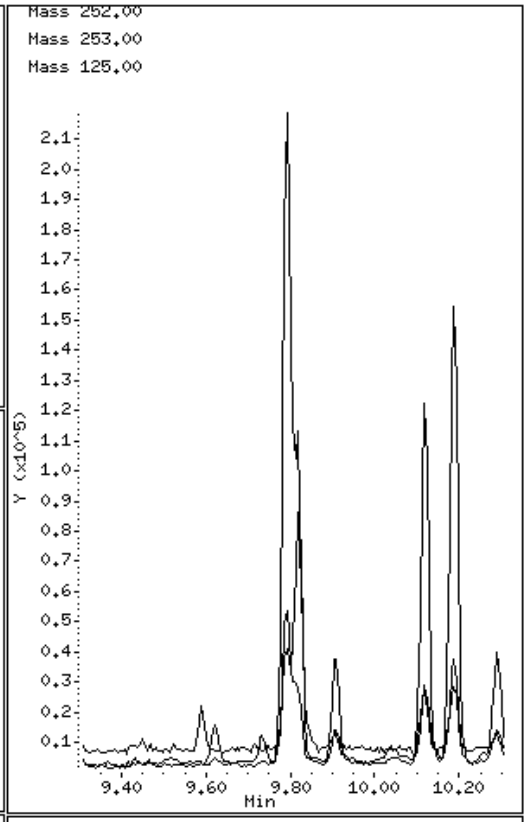
142 Benzo(k)fluoranthene

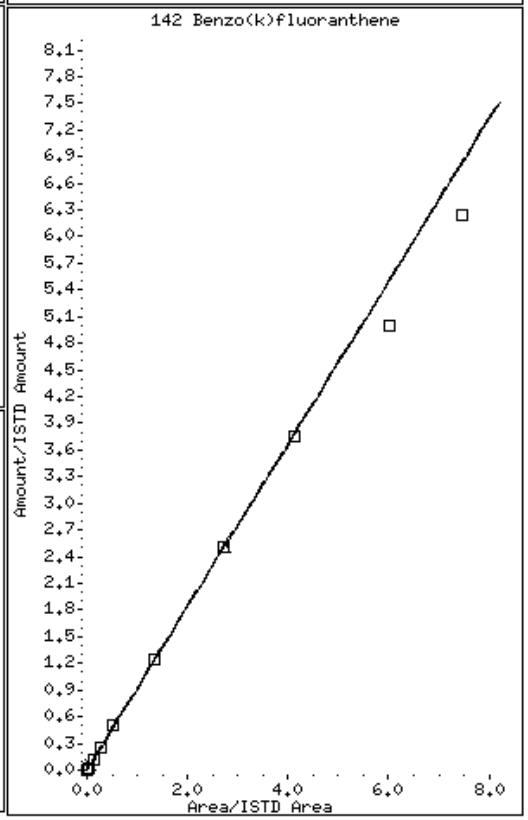




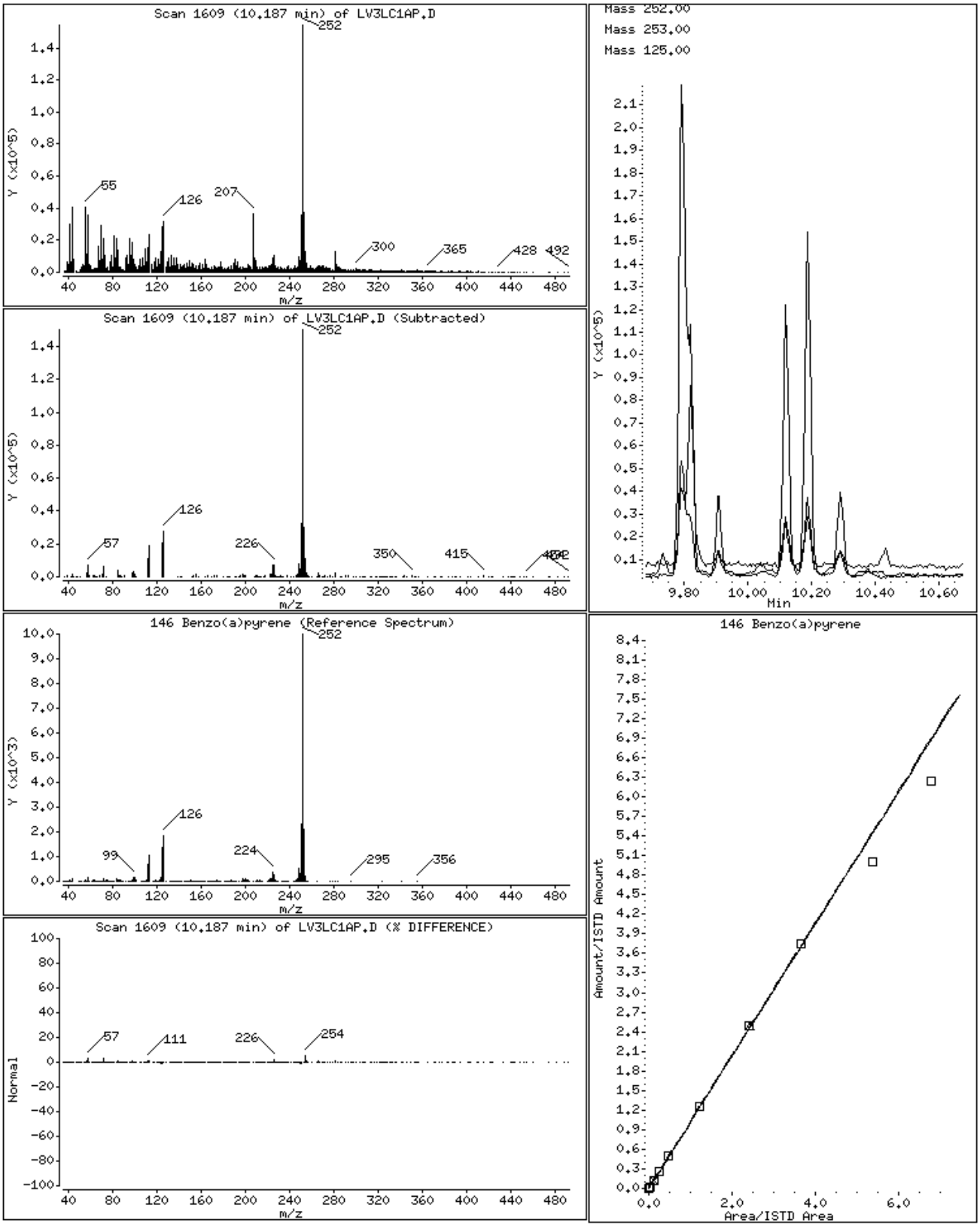




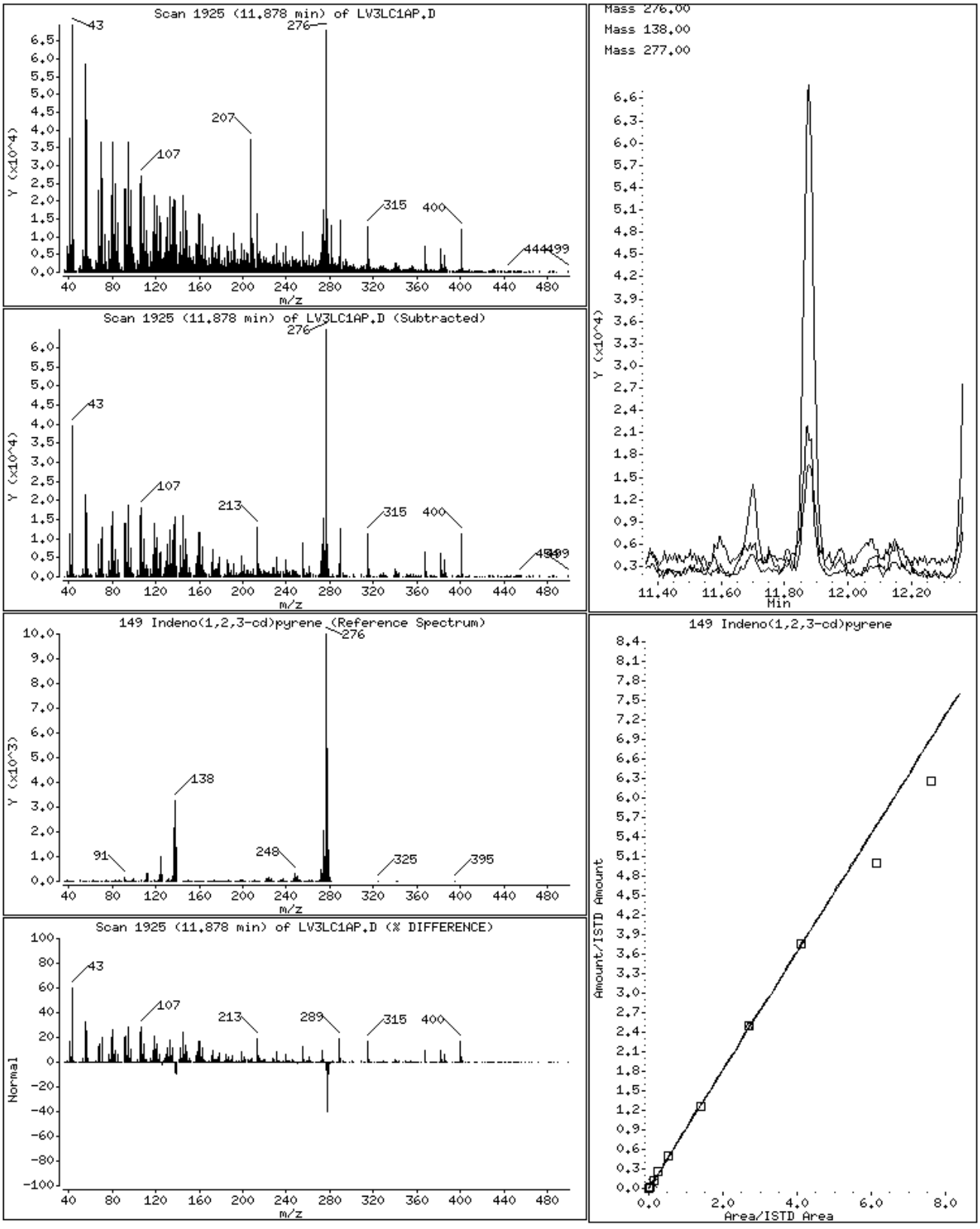




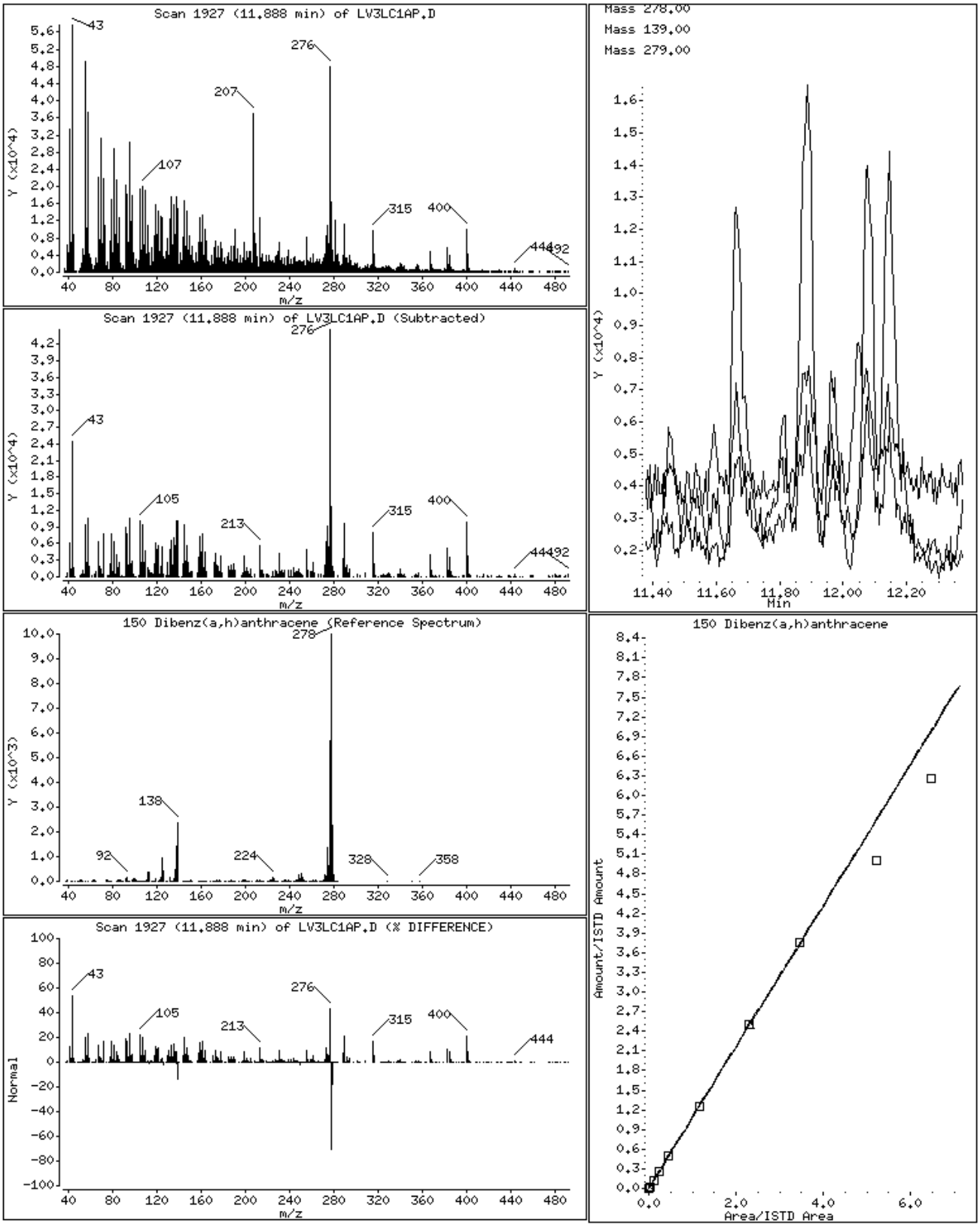
146 Benzo(a)pyrene



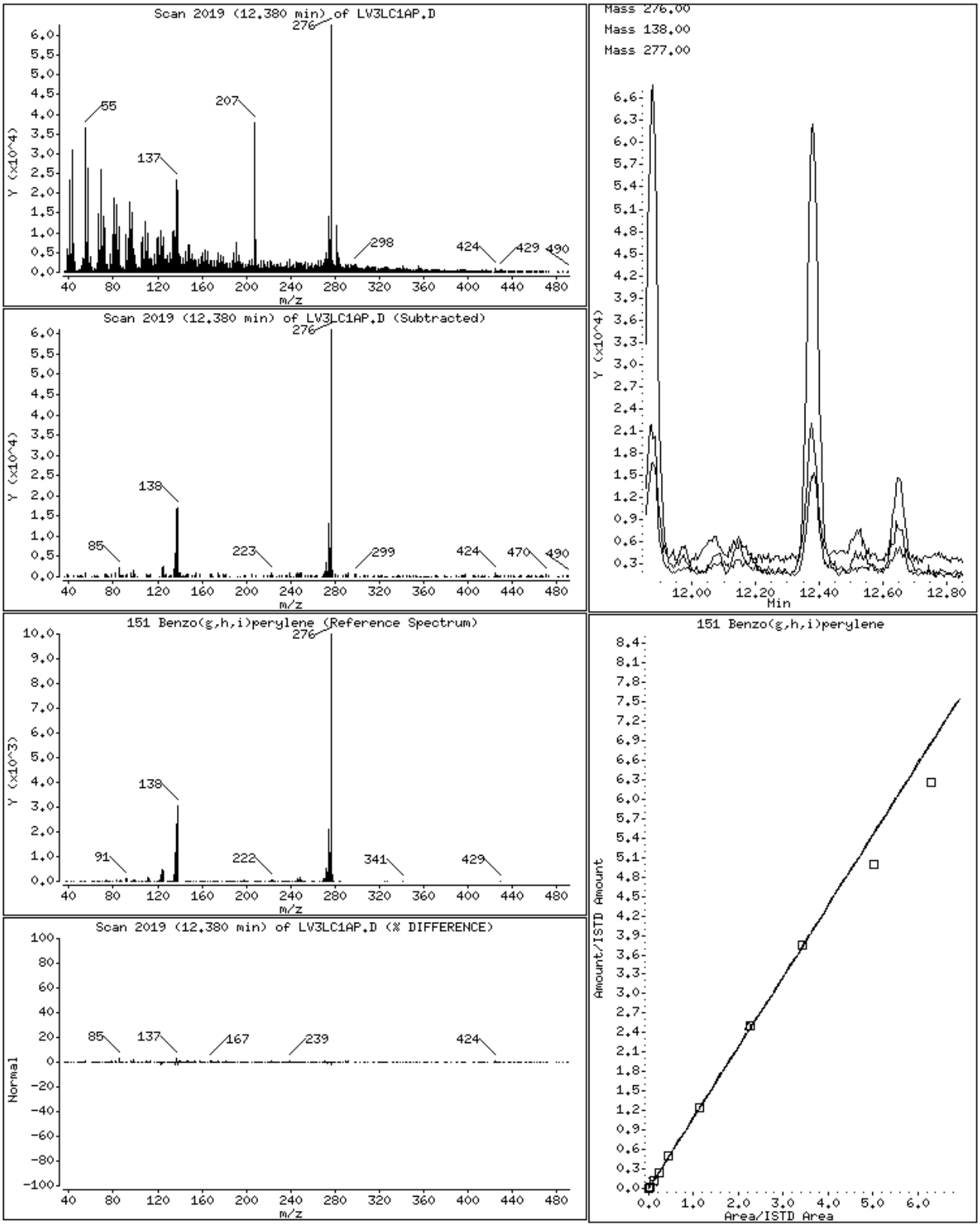
149 Indeno(1,2,3-cd)pyrene



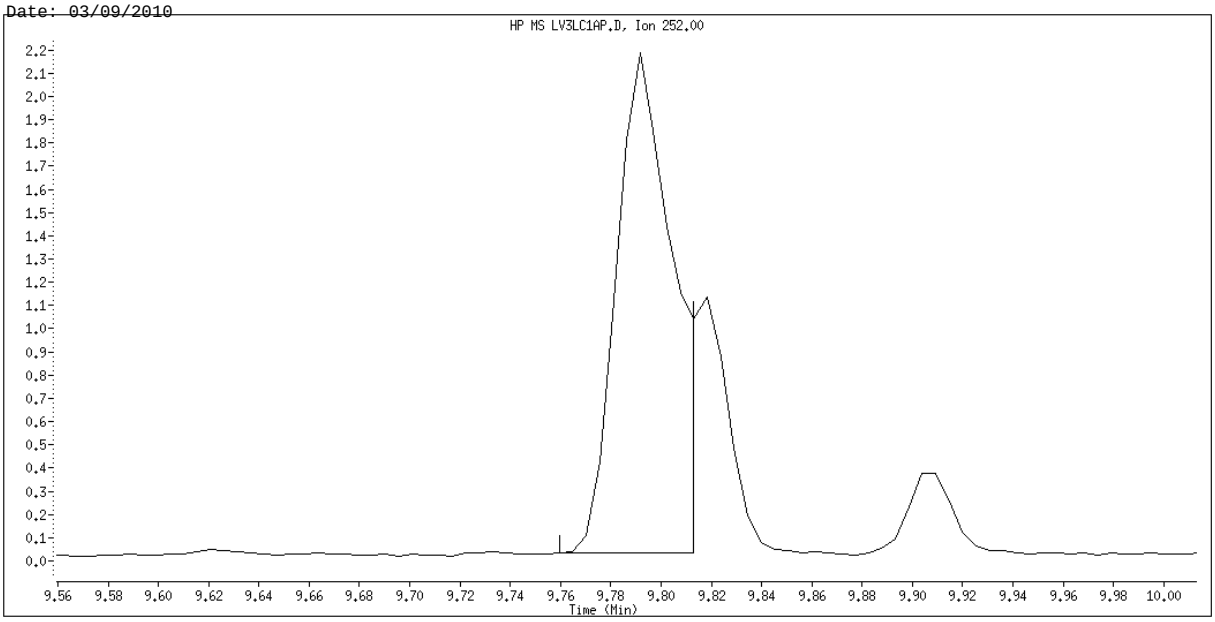
150 Dibenz(a,h)anthracene



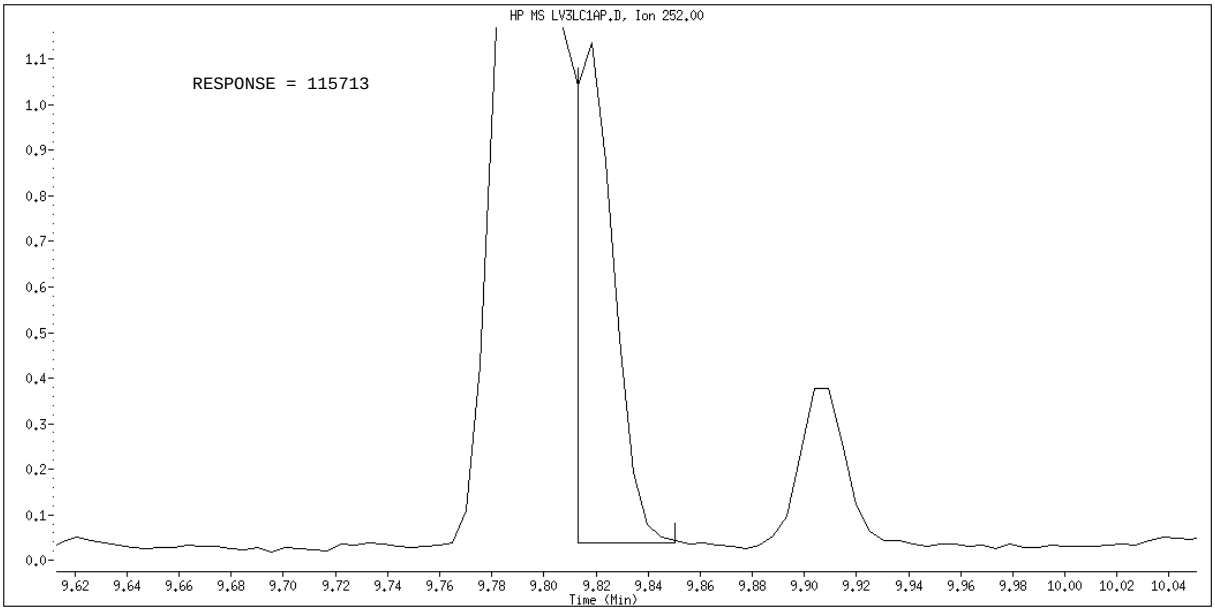
151 Benzo(g,h,i)perylene



Data File Name: LV3LC1AP.D
Inj. Date and Time: 08-MAR-2010 14:26
Instrument ID: a4hp7.i
Client ID: F15SS-035M-6121-FD
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Science Applications International Corp

Client Sample ID: F15SS-037M-5429-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-016 **Work Order #...:** LV3LE1AX **Matrix.....:** SO
Date Sampled...: 02/24/10 13:30 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0060040
Dilution Factor: 1 **Initial Wgt/Vol:** 30.08 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 2.4 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	6.8	ug/kg	3.4
Acenaphthylene	ND	6.8	ug/kg	3.4
Anthracene	ND	6.8	ug/kg	3.4
Benzo(a)anthracene	**13**	**6.8**	**ug/kg**	**3.4**
Benzo(b)fluoranthene	**26**	**6.8**	**ug/kg**	**3.4**
Benzo(k)fluoranthene	**10**	**6.8**	**ug/kg**	**3.4**
Benzo(ghi)perylene	**12**	**6.8**	**ug/kg**	**3.4**
Benzo(a)pyrene	**14**	**6.8**	**ug/kg**	**3.4**
Chrysene	**19**	**6.8**	**ug/kg**	**1.1**
Dibenzo(a,h)anthracene	ND	6.8	ug/kg	3.4
Fluoranthene	**28**	**6.8**	**ug/kg**	**3.4**
Fluorene	ND	6.8	ug/kg	3.4
Indeno(1,2,3-cd)pyrene	**11**	**6.8**	**ug/kg**	**3.4**
Naphthalene	**43**	**6.8**	**ug/kg**	**3.4**
Phenanthrene	**29**	**6.8**	**ug/kg**	**3.4**
Pyrene	**20**	**6.8**	**ug/kg**	**3.4**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	63	(45 - 105)
2-Fluorophenol	74	(35 - 105)
Phenol-d5	71	(40 - 100)
2,4,6-Tribromophenol	78	(35 - 125)
Nitrobenzene-d5	61	(35 - 100)
Terphenyl-d14	81	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\LV3LE1AX.D
Lab Smp Id: lv3le1ax Client Smp ID: F15SS-037M-5429-SO
Inj Date : 08-MAR-2010 15:43
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3le1ax,00308a.b,8270c-625,1-pah.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 13:55 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.080	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1	1,4-Dichlorobenzene-d4	152	3.576	3.560	(1.000)	214724	2.00000		(Q)
* 2	Naphthalene-d8	136	4.459	4.453	(1.000)	974111	2.00000		
* 3	Acenaphthene-d10	164	5.721	5.721	(1.000)	607366	2.00000		
* 4	Phenanthrene-d10	188	6.812	6.807	(1.000)	1058686	2.00000		
* 5	Chrysene-d12	240	8.775	8.769	(1.000)	1392124	2.00000		
* 6	Perylene-d12	264	10.262	10.235	(1.000)	1286730	2.00000		
51	Naphthalene	128	4.475	4.469	(1.004)	141475	0.31410	41.769	
62	2-Methylnaphthalene	142	4.961	4.961	(1.113)	116948	0.47694	63.423	
63	1-Methylnaphthalene	142	5.036	5.031	(1.130)	78647	0.27893	37.092	
70	2-Chloronaphthalene	162	Compound Not Detected.						
79	Acenaphthylene	152	Compound Not Detected.						
82	Acenaphthene	153	Compound Not Detected.						
86	Dibenzofuran	168	5.871	5.870	(1.026)	44220	0.10123	13.462	
94	Fluorene	166	Compound Not Detected.						
115	Phenanthrene	178	6.828	6.823	(1.002)	122663	0.21329	28.362	
116	Anthracene	178	Compound Not Detected.						
123	Fluoranthene	202	7.711	7.689	(1.132)	122149	0.20726	27.562	
125	Pyrene	202	7.871	7.866	(0.897)	104183	0.14516	19.304	

136 Benzo(a)Anthracene	228	8.764	8.759 (0.999)	64812	0.09406	12.508
137 Chrysene	228	8.796	8.791 (1.002)	91955	0.14143	18.807

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
141 Benzo(b)fluoranthene	252	9.797	9.780	(0.955)	125948	0.19043	25.324
142 Benzo(k)fluoranthene	252	9.818	9.807	(0.957)	53280	0.07571	10.068(QM)
146 Benzo(a)pyrene	252	10.192	10.176	(0.993)	63390	0.09984	13.277
149 Indeno(1,2,3-cd)pyrene	276	11.899	11.861	(1.159)	58112	0.08190	10.891
150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
151 Benzo(g,h,i)perylene	276	12.412	12.353	(1.210)	53751	0.09079	12.073(M)
$ 154 Nitrobenzene-d5	82	3.951	3.940	(0.886)	452421	3.07397	408.77
$ 155 2-Fluorobiphenyl	172	5.213	5.207	(0.911)	1105954	3.15634	419.72
$ 156 Terphenyl-d14	244	7.951	7.940	(0.906)	1772865	4.05391	539.08
$ 157 Phenol-d5	99	3.309	3.260	(0.925)	862493	5.36148	712.96
$ 158 2-Fluorophenol	112	2.822	2.688	(0.789)	672366	5.52200	734.31
$ 159 2,4,6-Tribromophenol	330	6.299	6.288	(1.101)	239130	5.83406	775.80
$ 186 2-Chlorophenol-d4	132	3.437	3.405	(0.961)	732854	5.76294	766.35
$ 187 1,2-Dichlorobenzene-d4	152	3.683	3.667	(1.030)	258683	3.01489	400.92

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

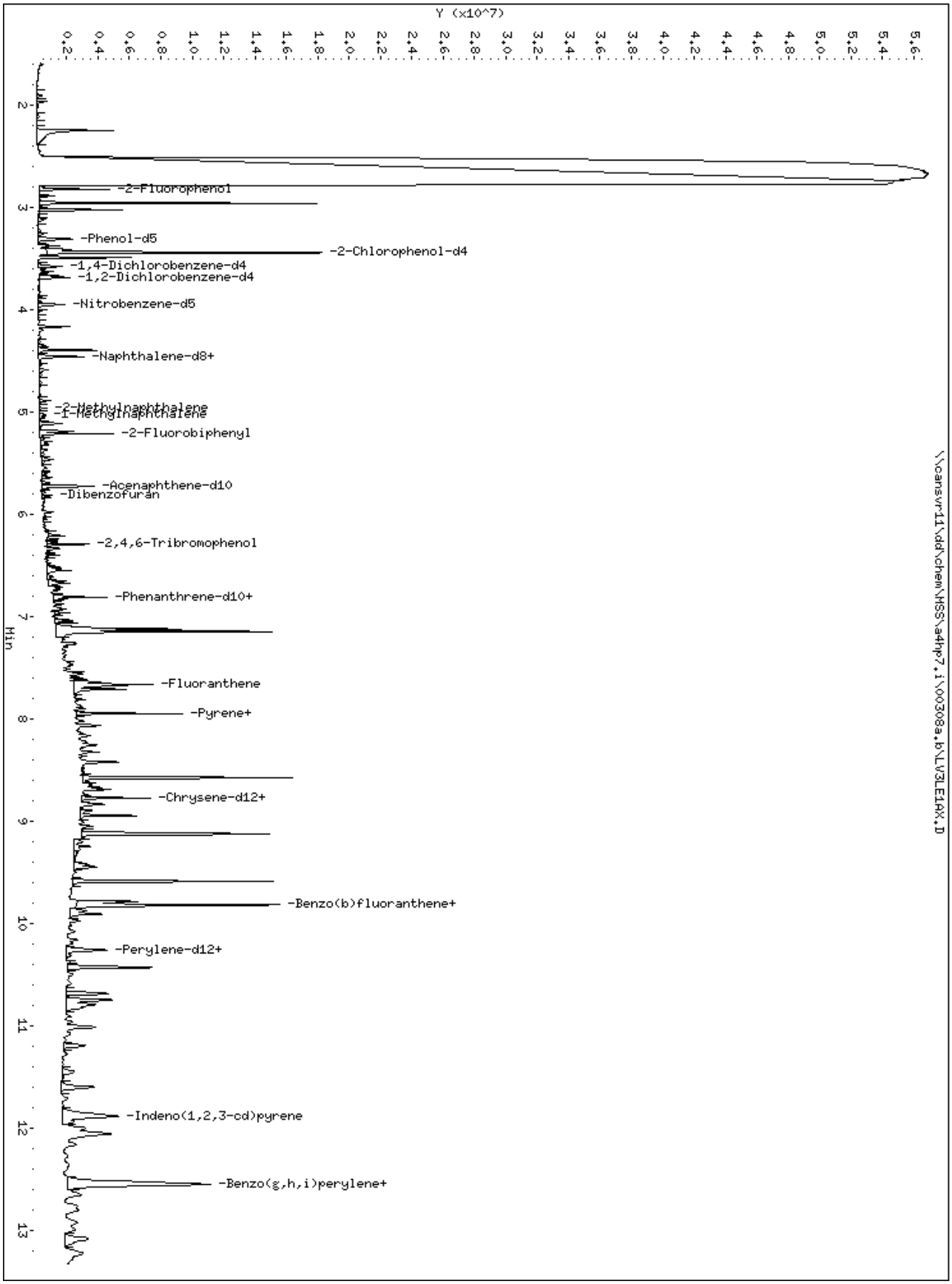
Instrument ID: a4hp7.i
Lab File ID: LV3LE1AX.D
Lab Smp Id: lv3le1ax
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 10:16
Client Smp ID: F15SS-037M-5429-SO
Level: LOW
Sample Type: SOIL

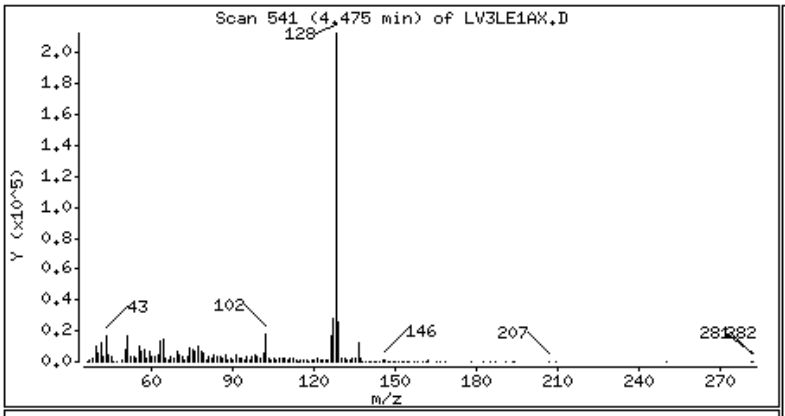
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	388613	194307	777226	214724	-44.75
2 Naphthalene-d8	1628032	814016	3256064	974111	-40.17
3 Acenaphthene-d10	875709	437855	1751418	607366	-30.64
4 Phenanthrene-d10	1398875	699438	2797750	1058686	-24.32
5 Chrysene-d12	1597704	798852	3195408	1392124	-12.87
6 Perylene-d12	1473841	736921	2947682	1286730	-12.70

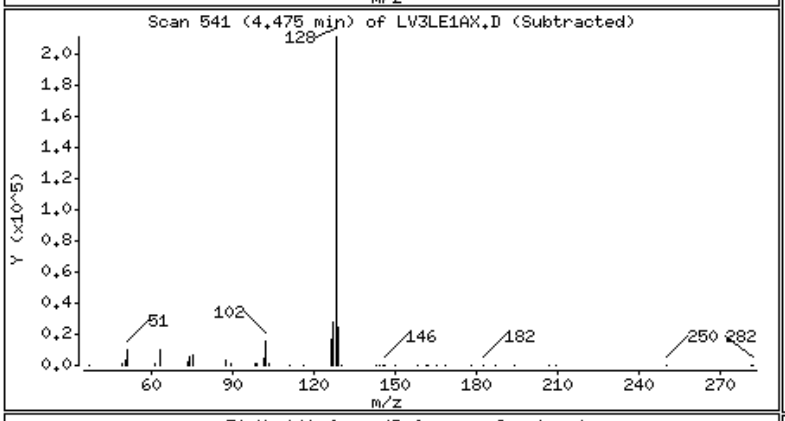
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.56	3.06	4.06	3.58	0.46
2 Naphthalene-d8	4.45	3.95	4.95	4.46	0.13
3 Acenaphthene-d10	5.72	5.22	6.22	5.72	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.08
5 Chrysene-d12	8.77	8.27	9.27	8.78	0.06
6 Perylene-d12	10.24	9.74	10.74	10.26	0.26

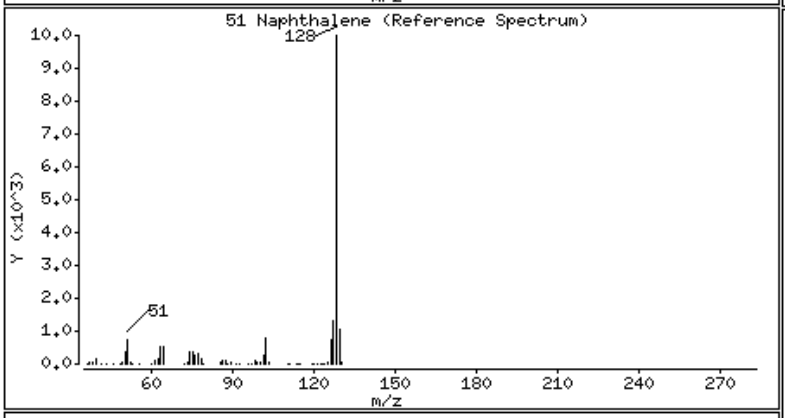
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

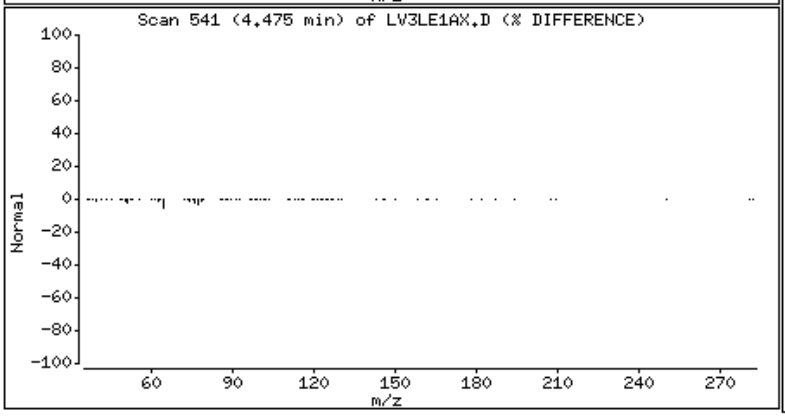

Y (x10^7)
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6
2
3
4
5
6
7
8
9
10
11
12
13
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8+
-2-Methylnaphthalene
-1-Methylnaphthalene
-2-Fluorobiphenyl
-Acenaphthene-d10
-Dibenzofuran
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-Fluoranthene
-Pyrene+
-Chrysene-d12+
-Benzo(b)fluoranthene+
-Perylene-d12+
-Indeno(1,2,3-cd)pyrene
-Benzo(g,h,i)perylene+
\\cansvr11\dd\chem\HSS\a4hp7.i\00308a.b\LW3LE10X.D

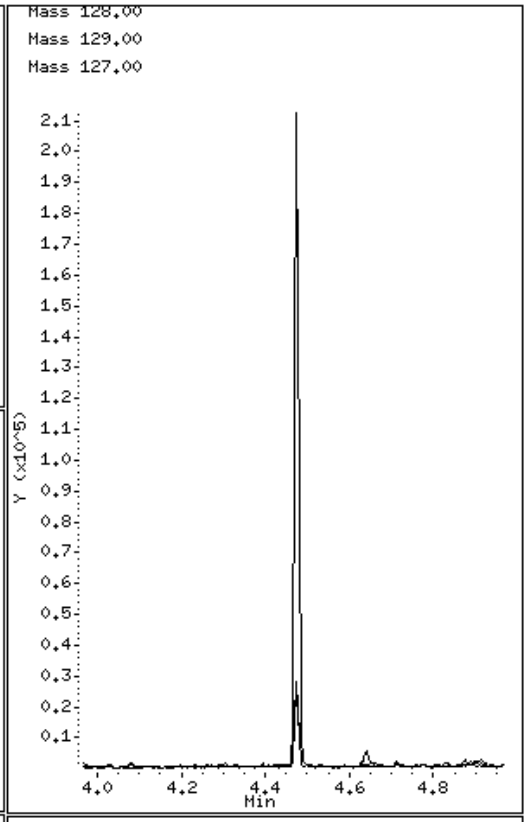
51 Naphthalene

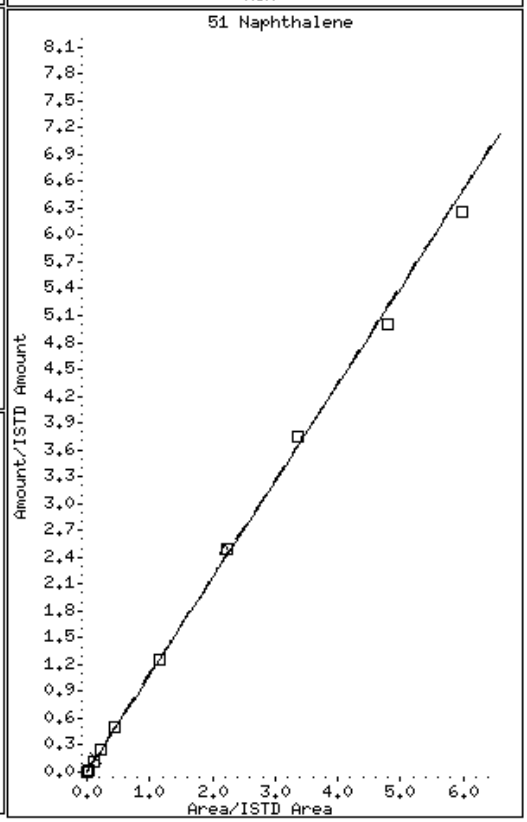




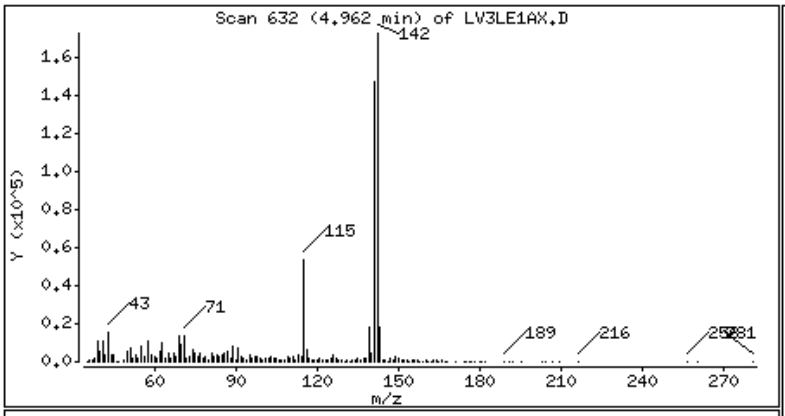


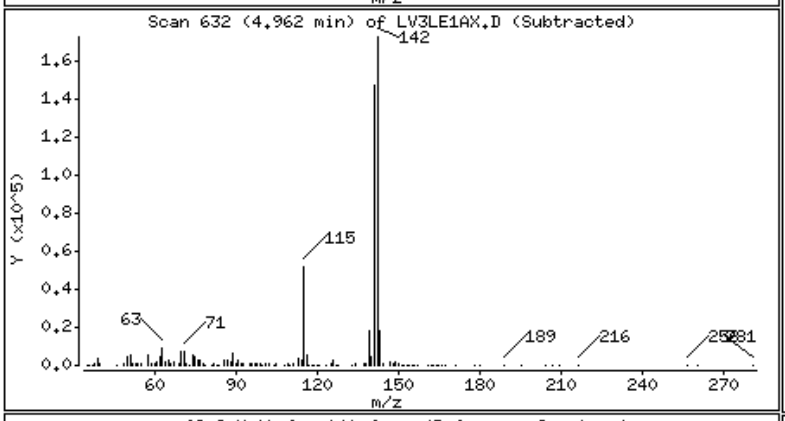


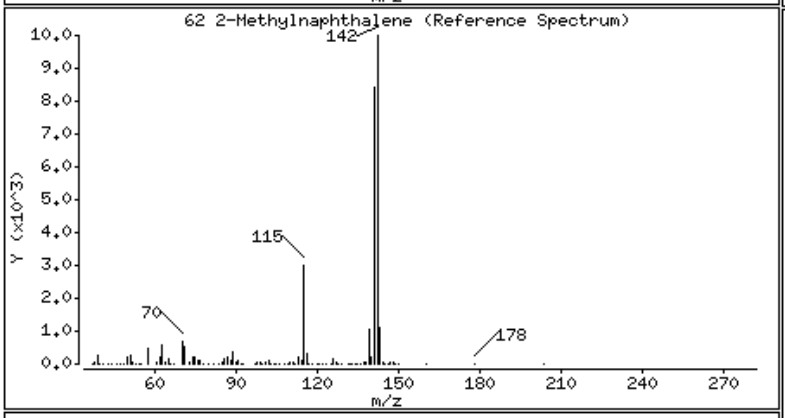


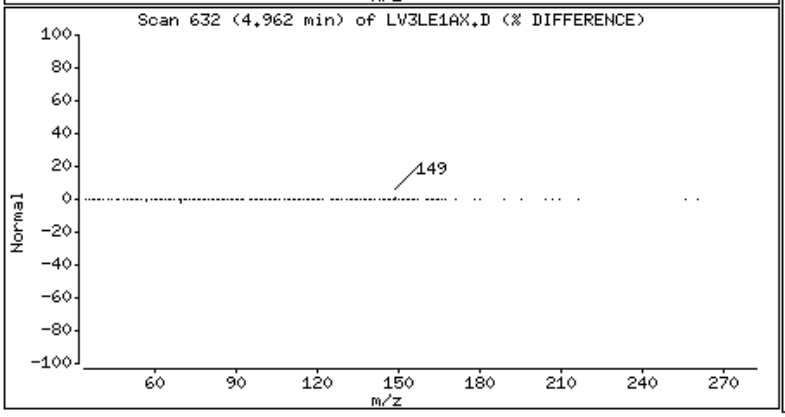


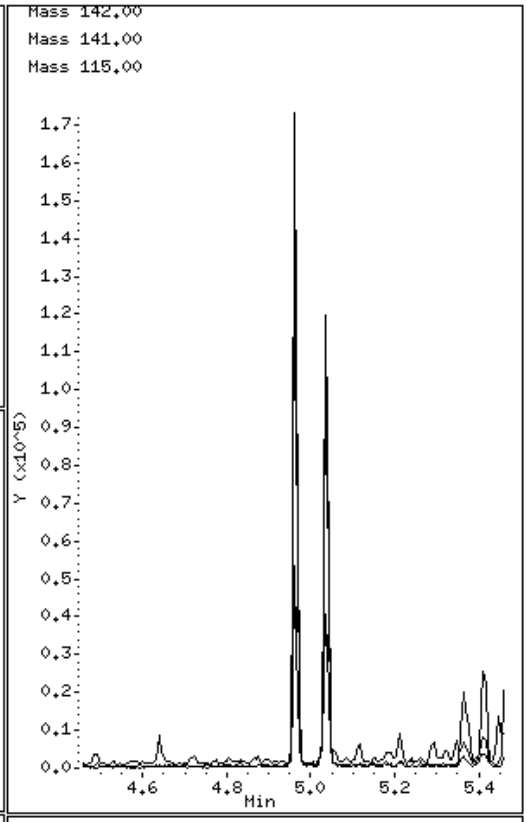
62 2-Methylnaphthalene

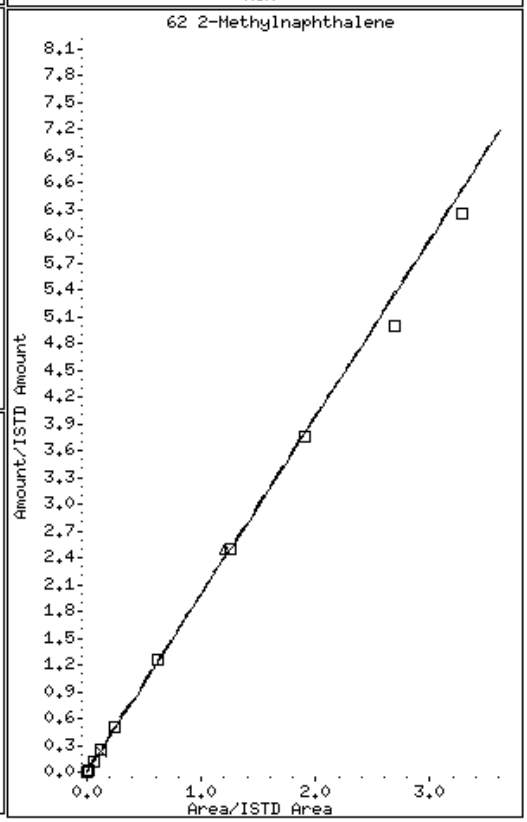




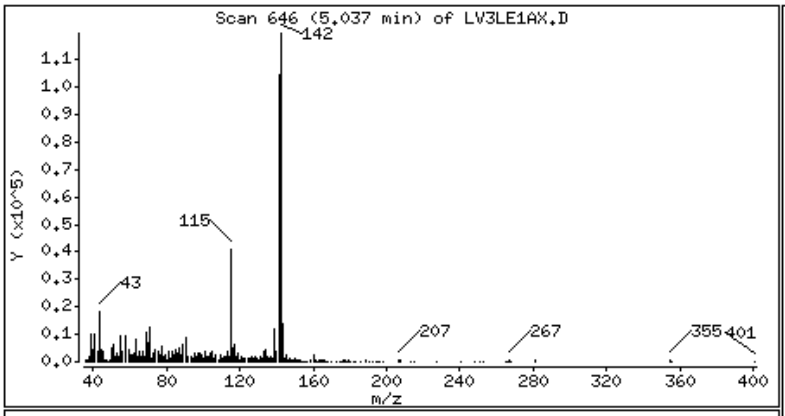


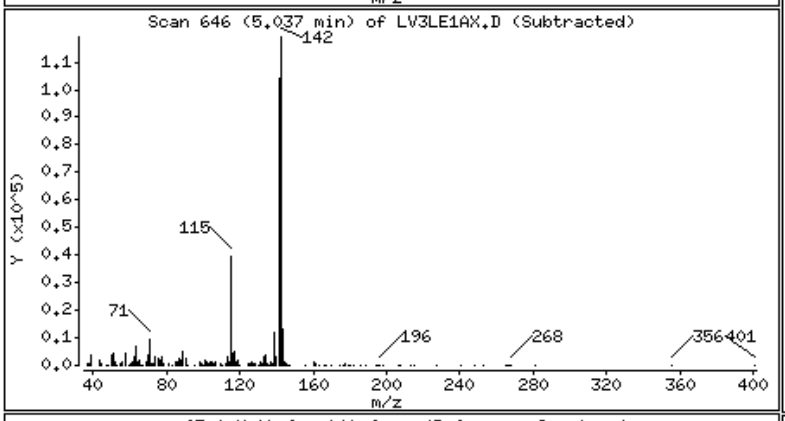


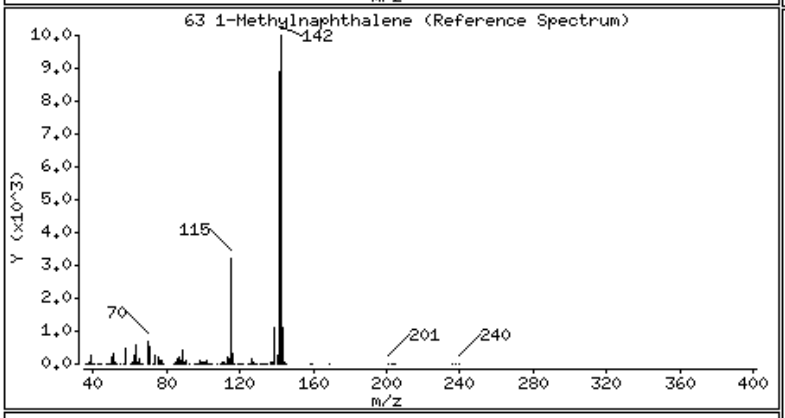


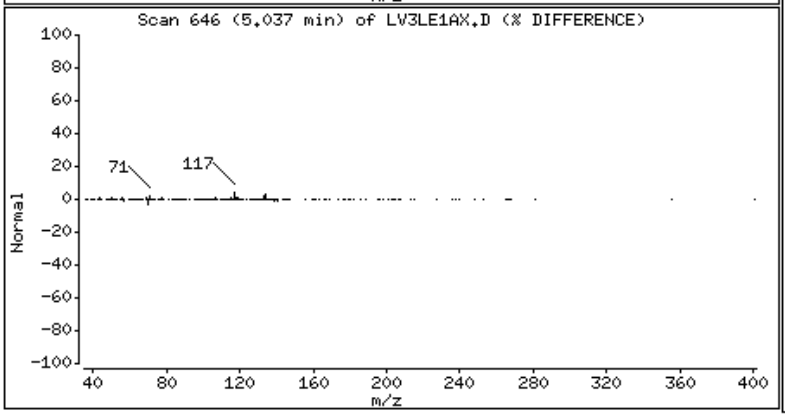


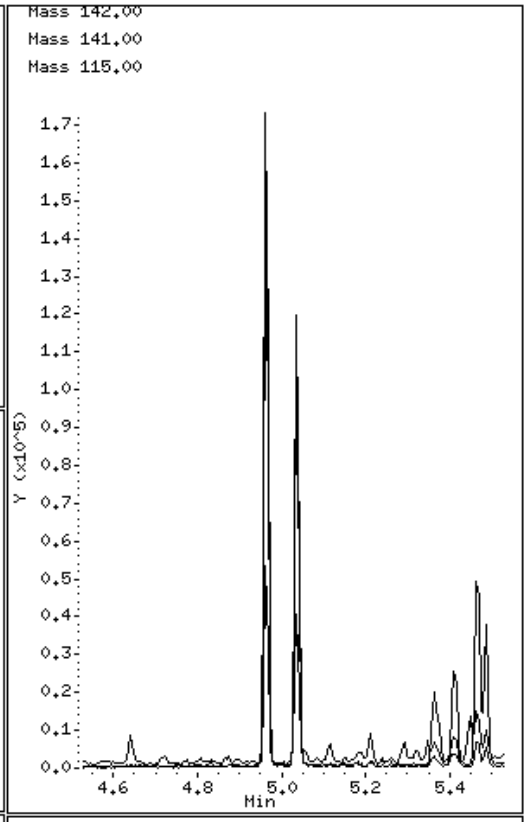
63 1-Methylnaphthalene

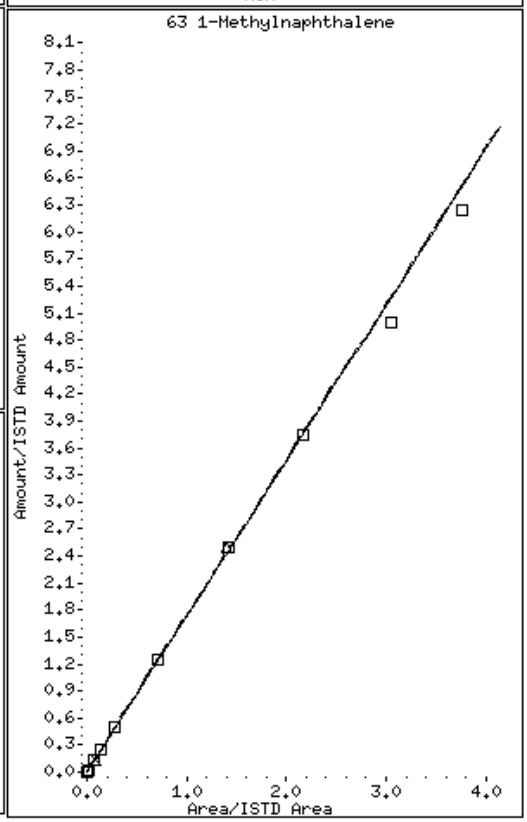




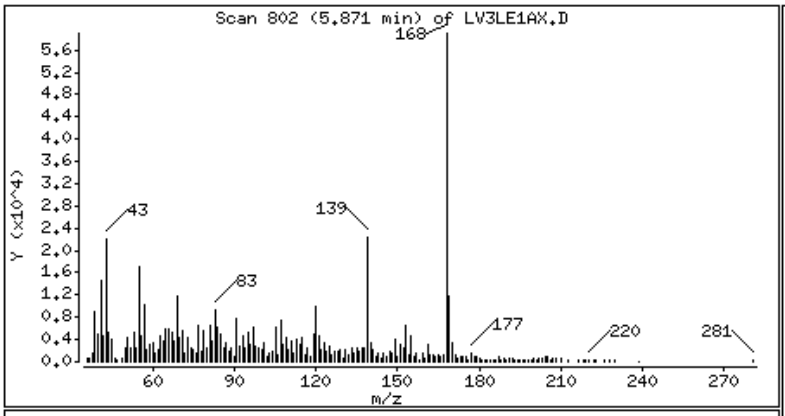


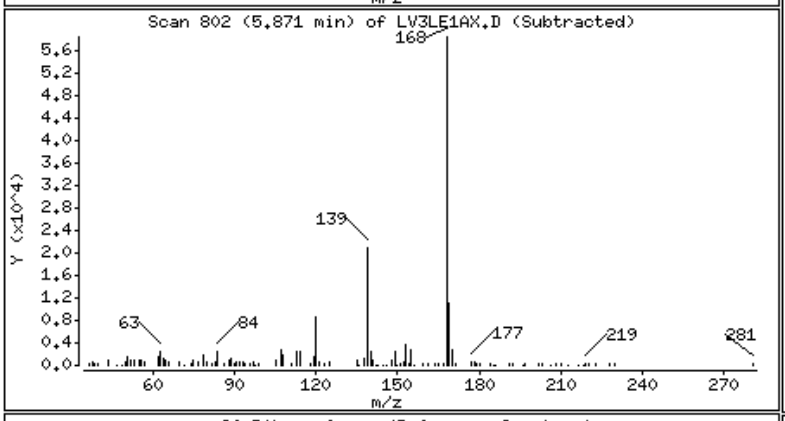


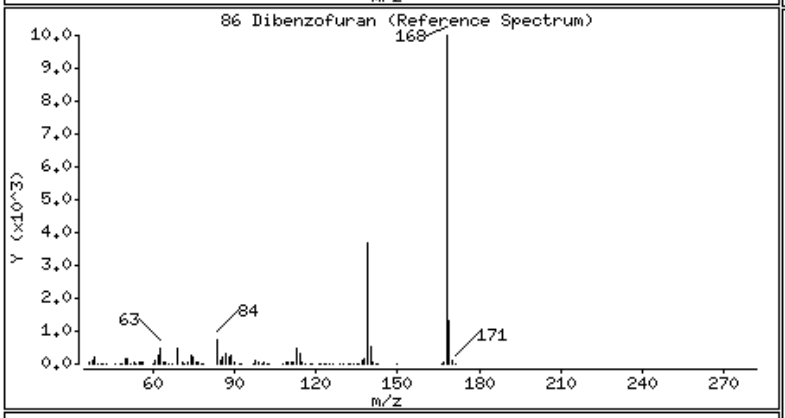


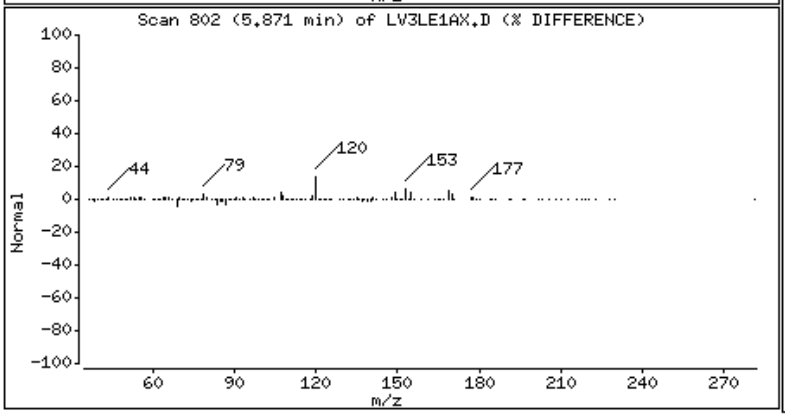


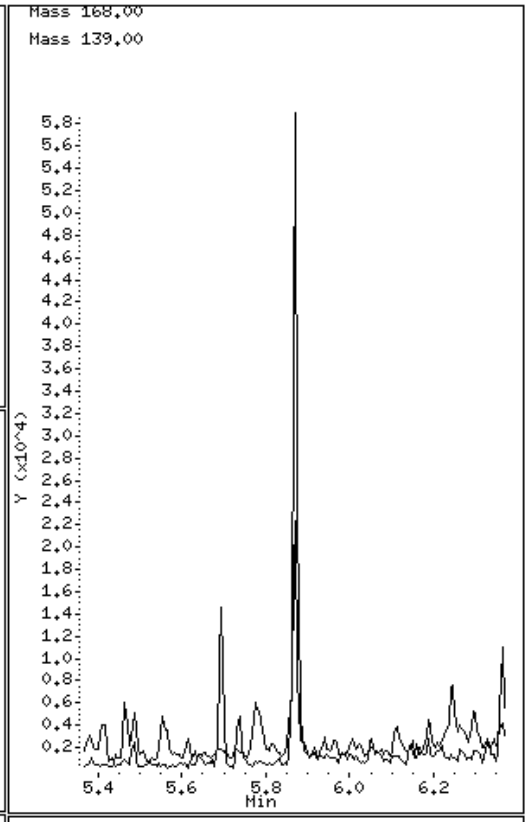
86 Dibenzofuran

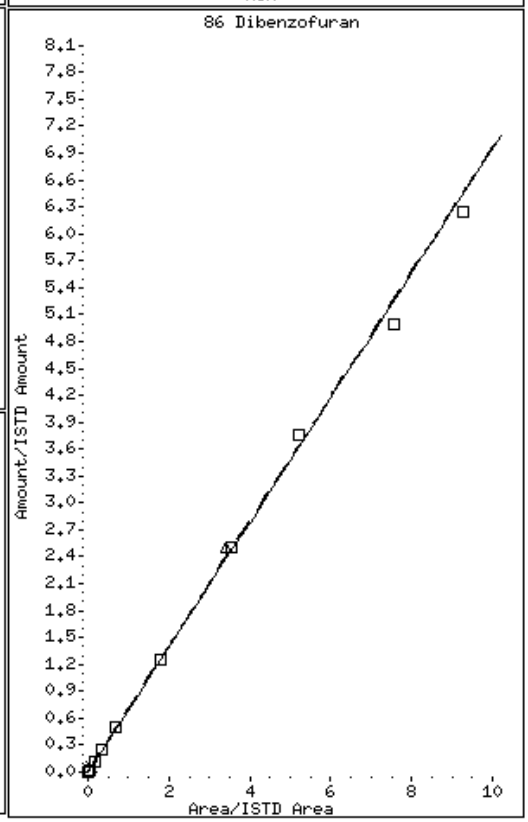




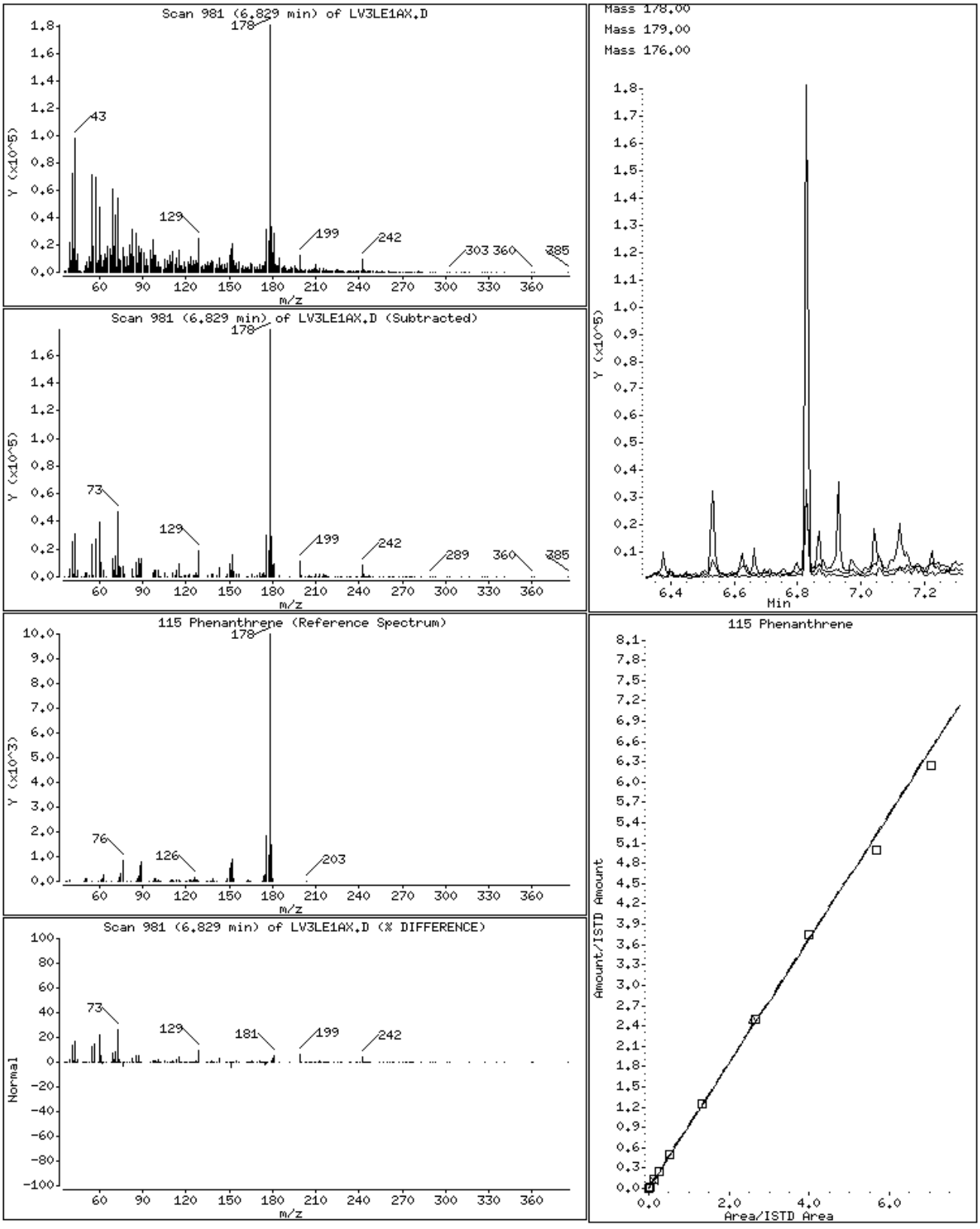




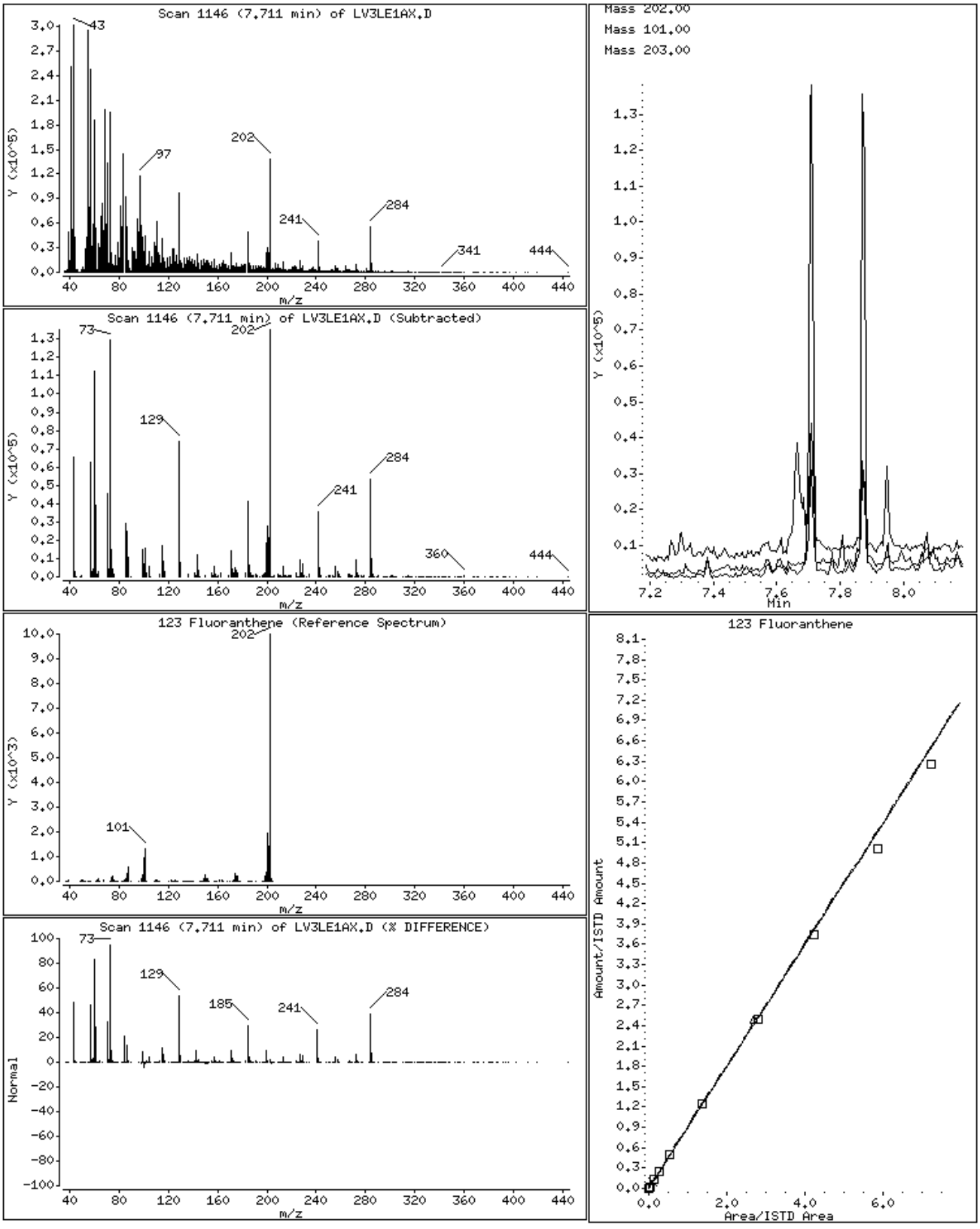




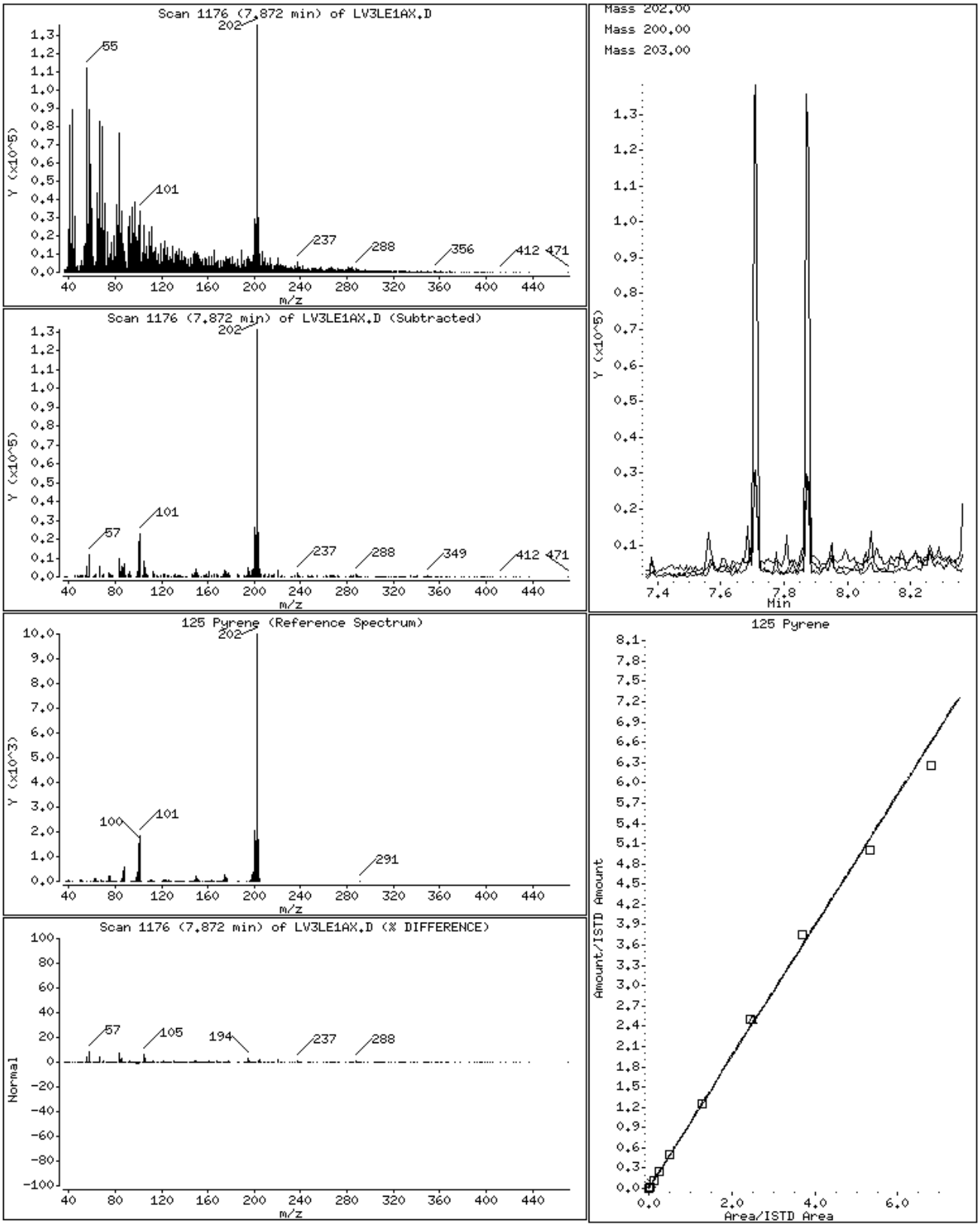
115 Phenanthrene



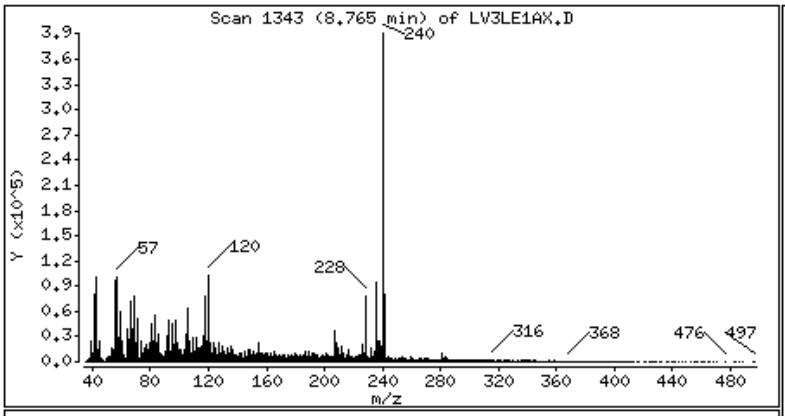
123 Fluoranthene

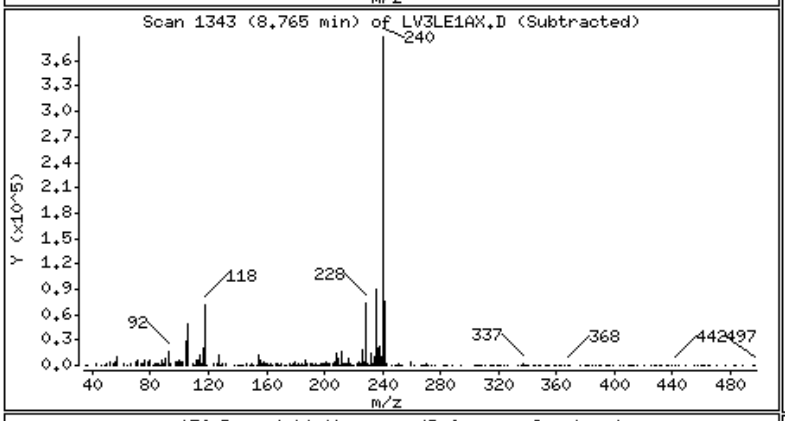


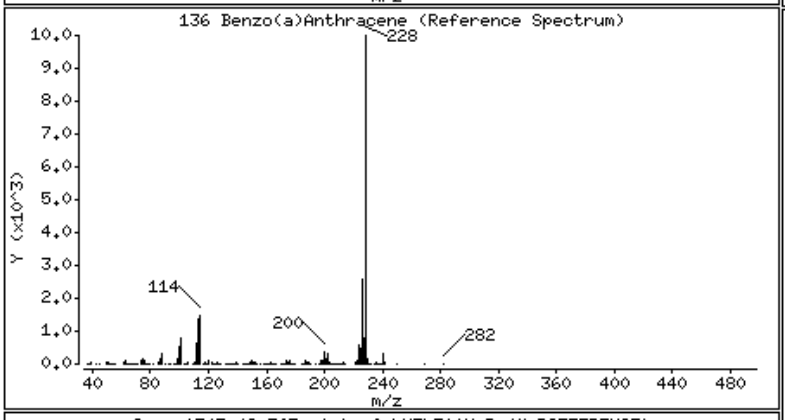
125 Pyrene

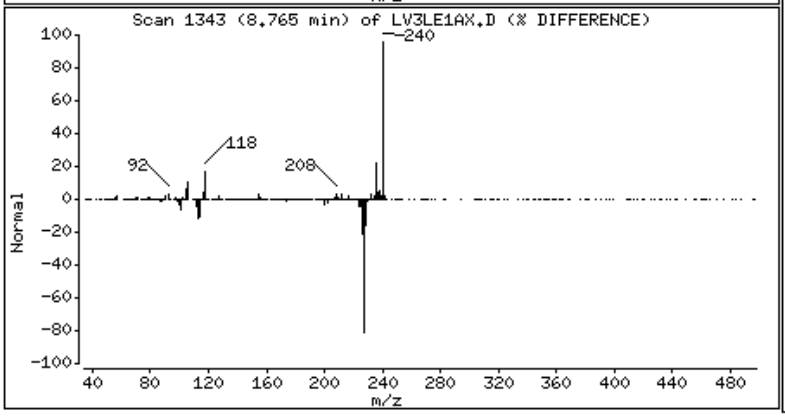

Scan 1176 (7.872 min) of LV3LE1AX.D
Scan 1176 (7.872 min) of LV3LE1AX.D (Subtracted)
125 Pyrene (Reference Spectrum)
Scan 1176 (7.872 min) of LV3LE1AX.D (% DIFFERENCE)
Mass 202.00
Mass 200.00
Mass 203.00
Min
125 Pyrene
Amount/ISTD Amount
Area/ISTD Area
Y (x10^5)
Y (x10^3)
Normal
m/z

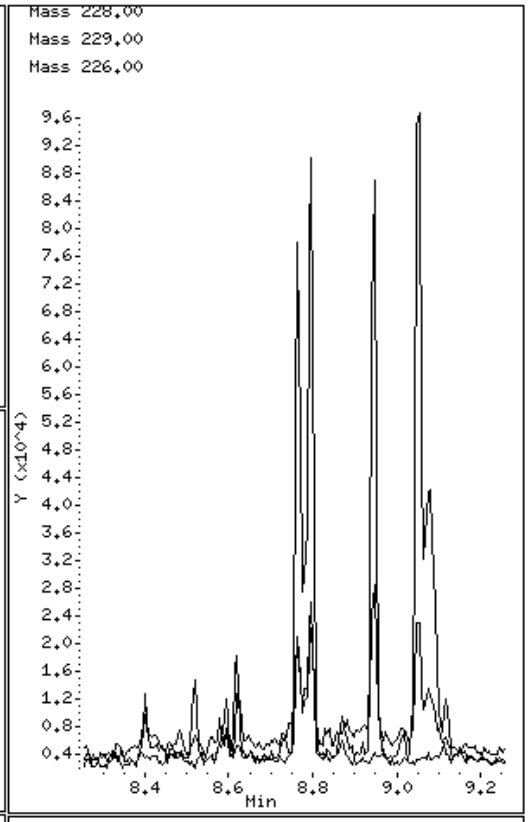
136 Benzo(a)Anthracene

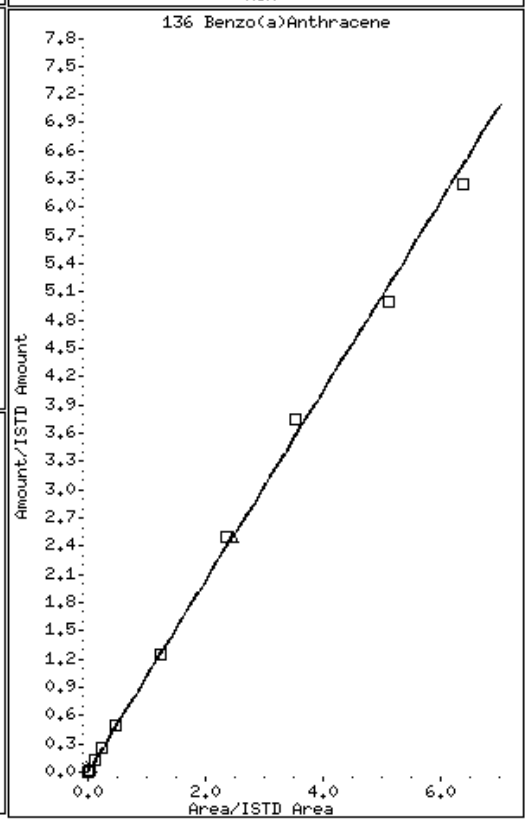




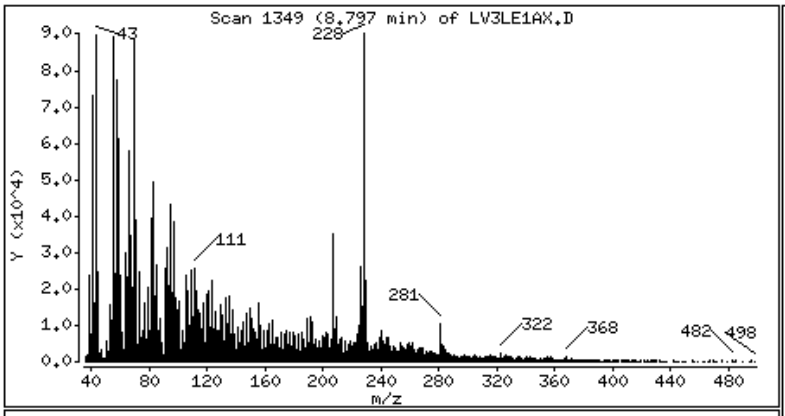


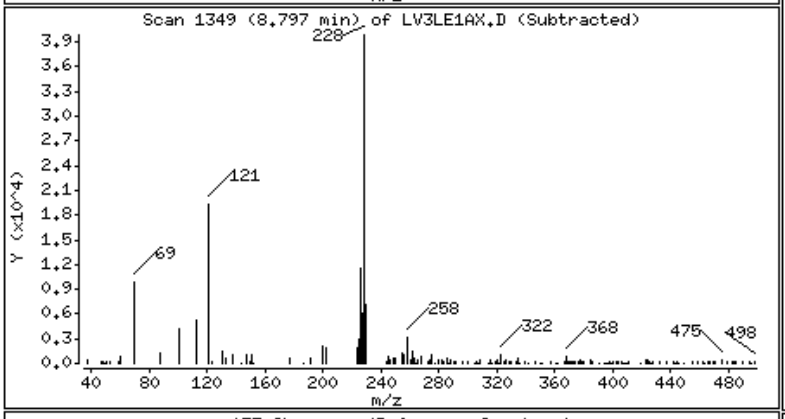


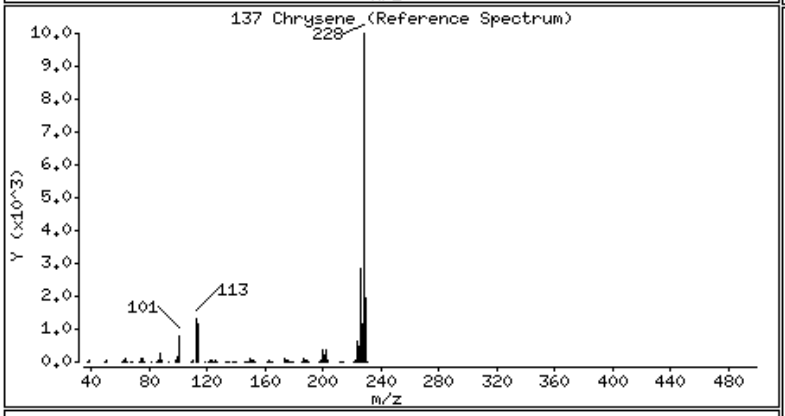


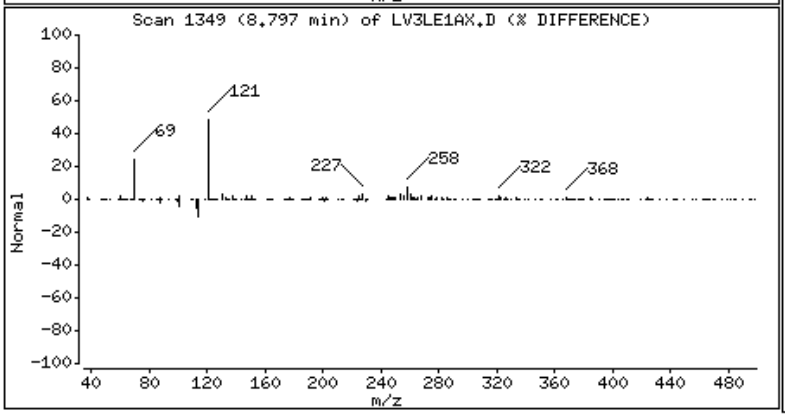


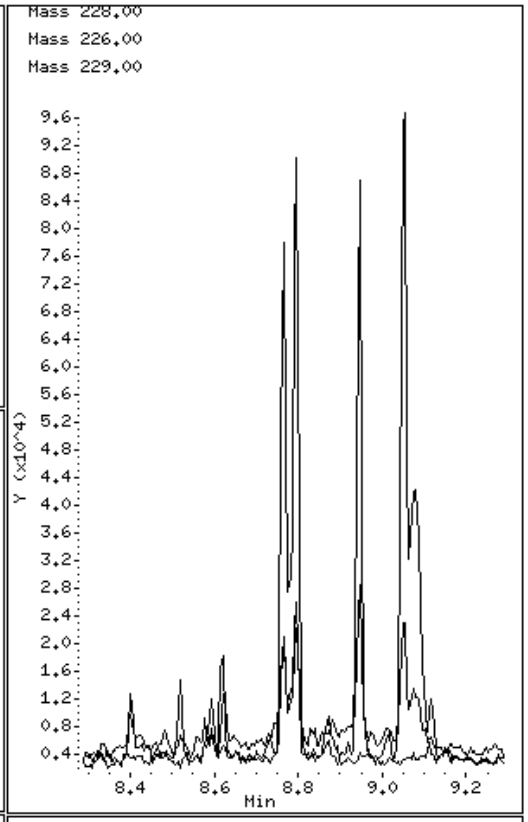
137 Chrysene

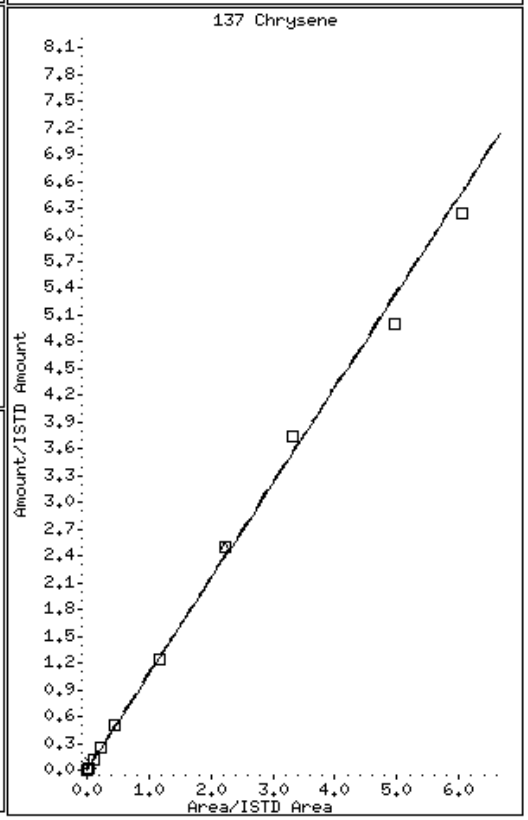




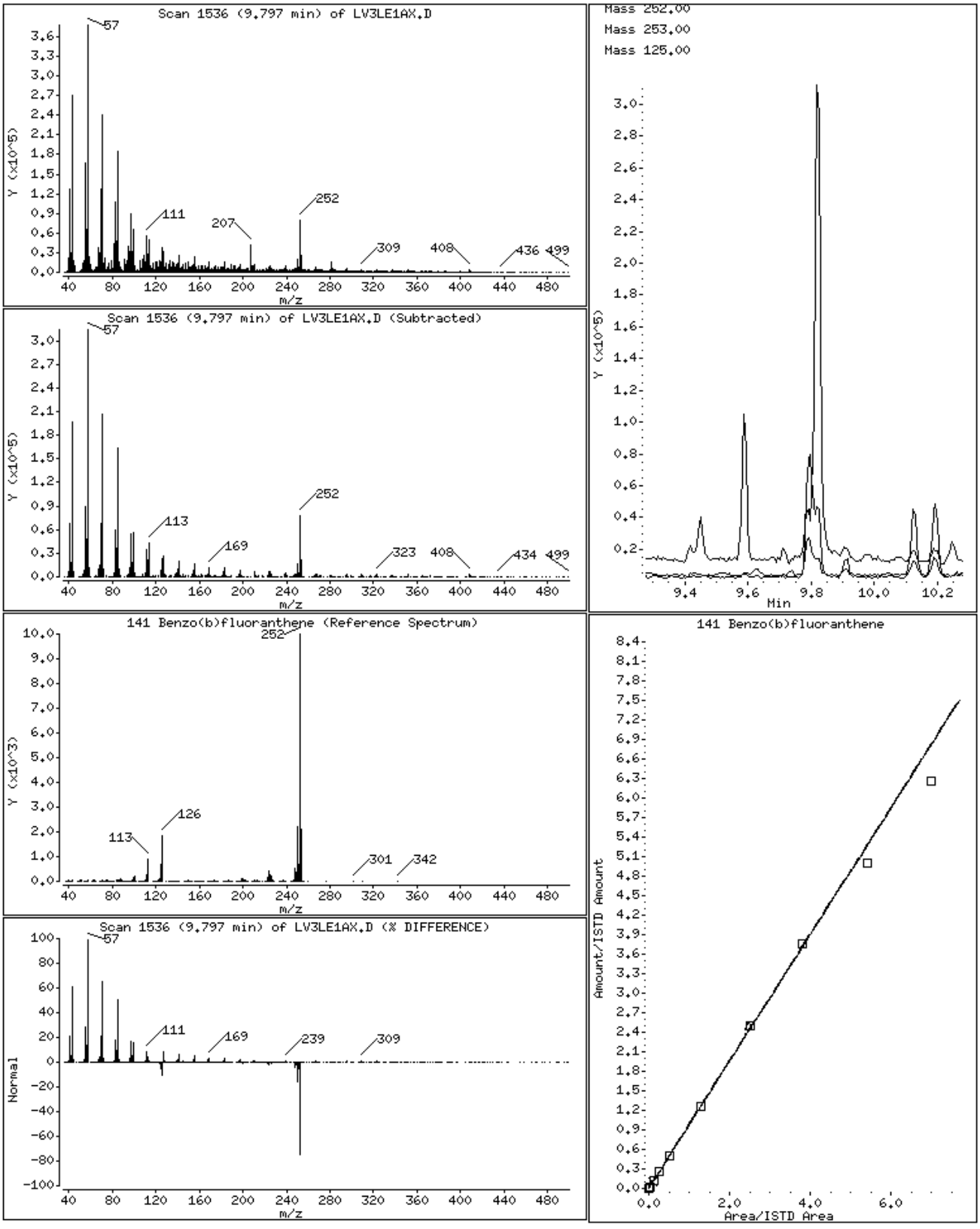




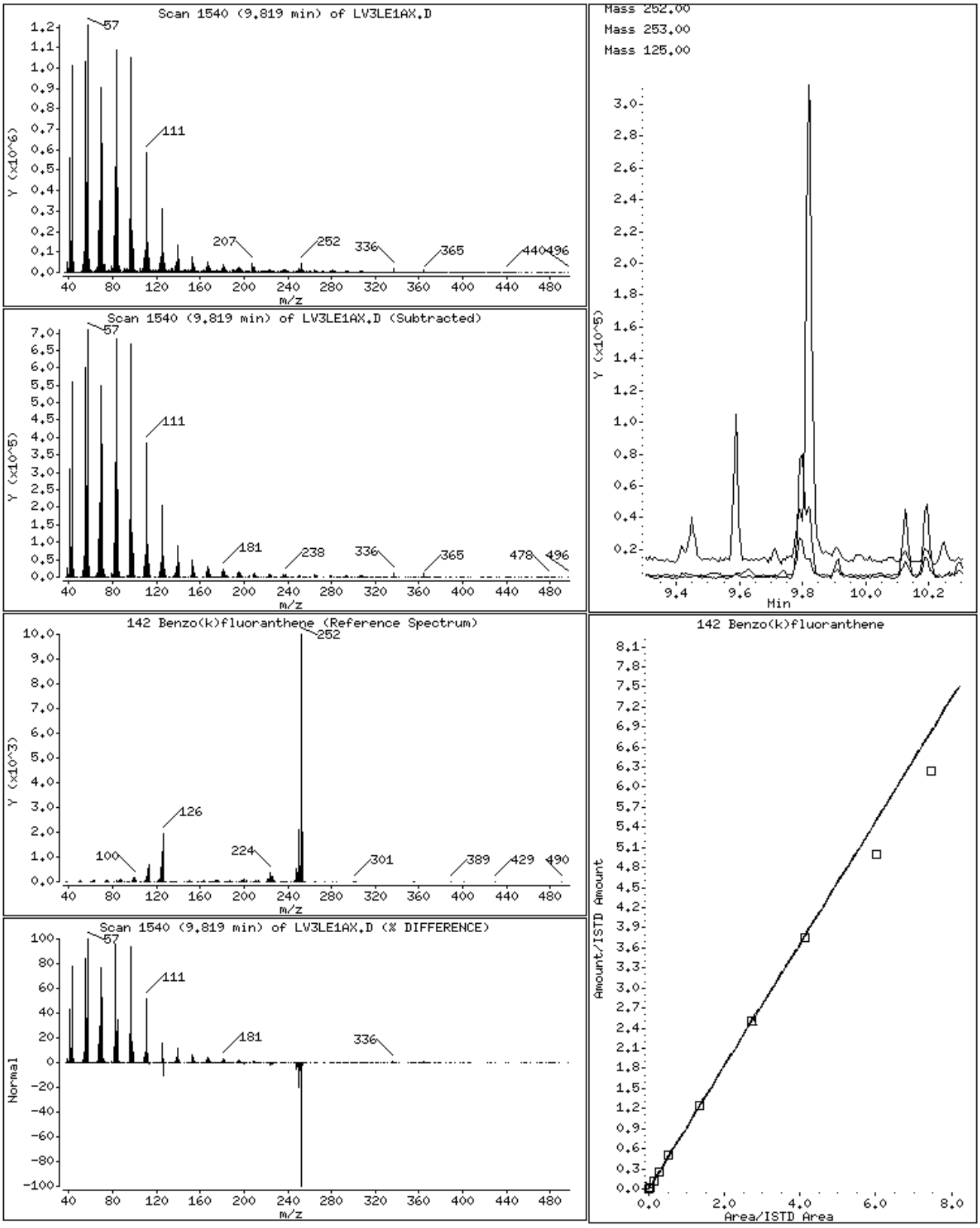




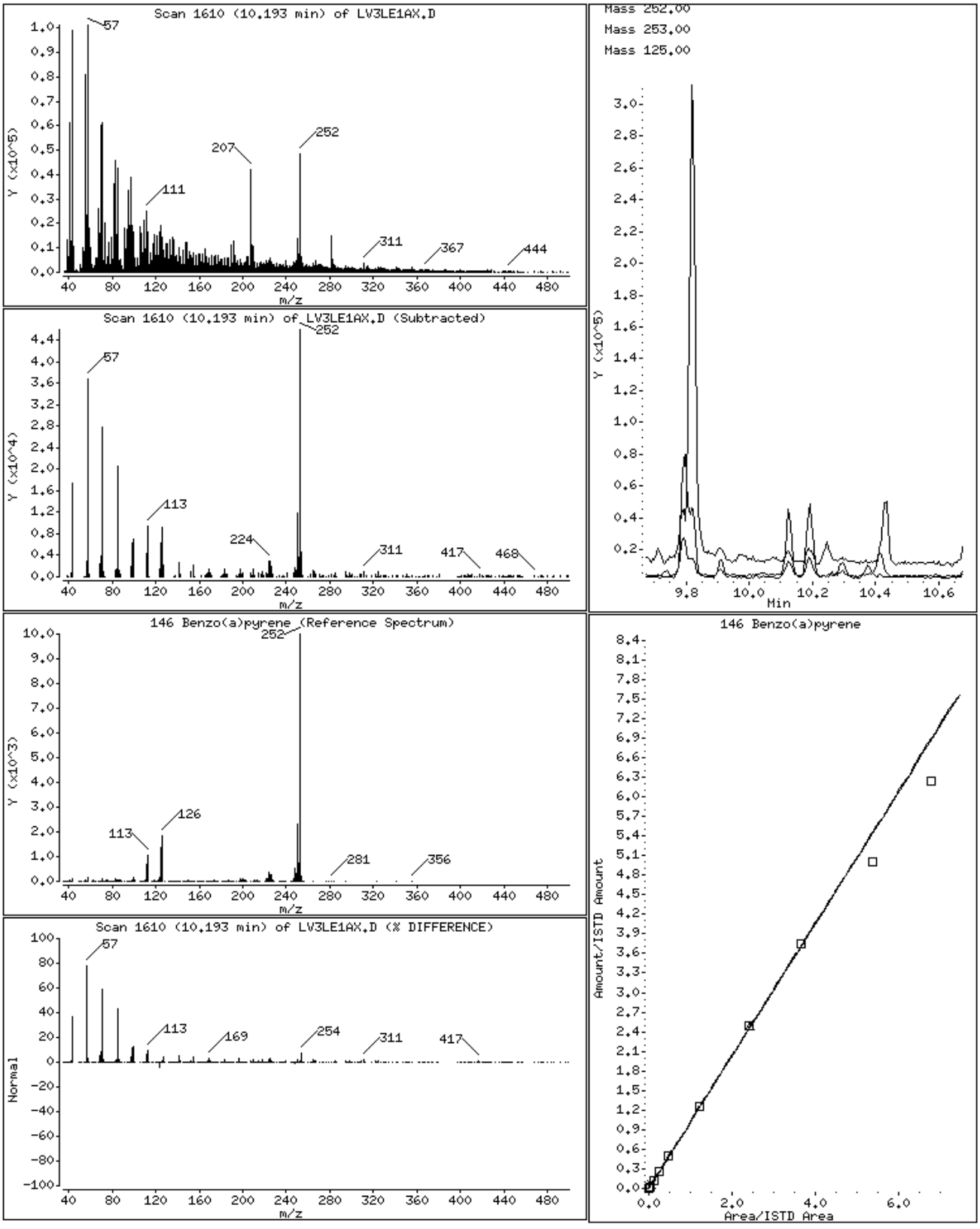
141 Benzo(b)fluoranthene



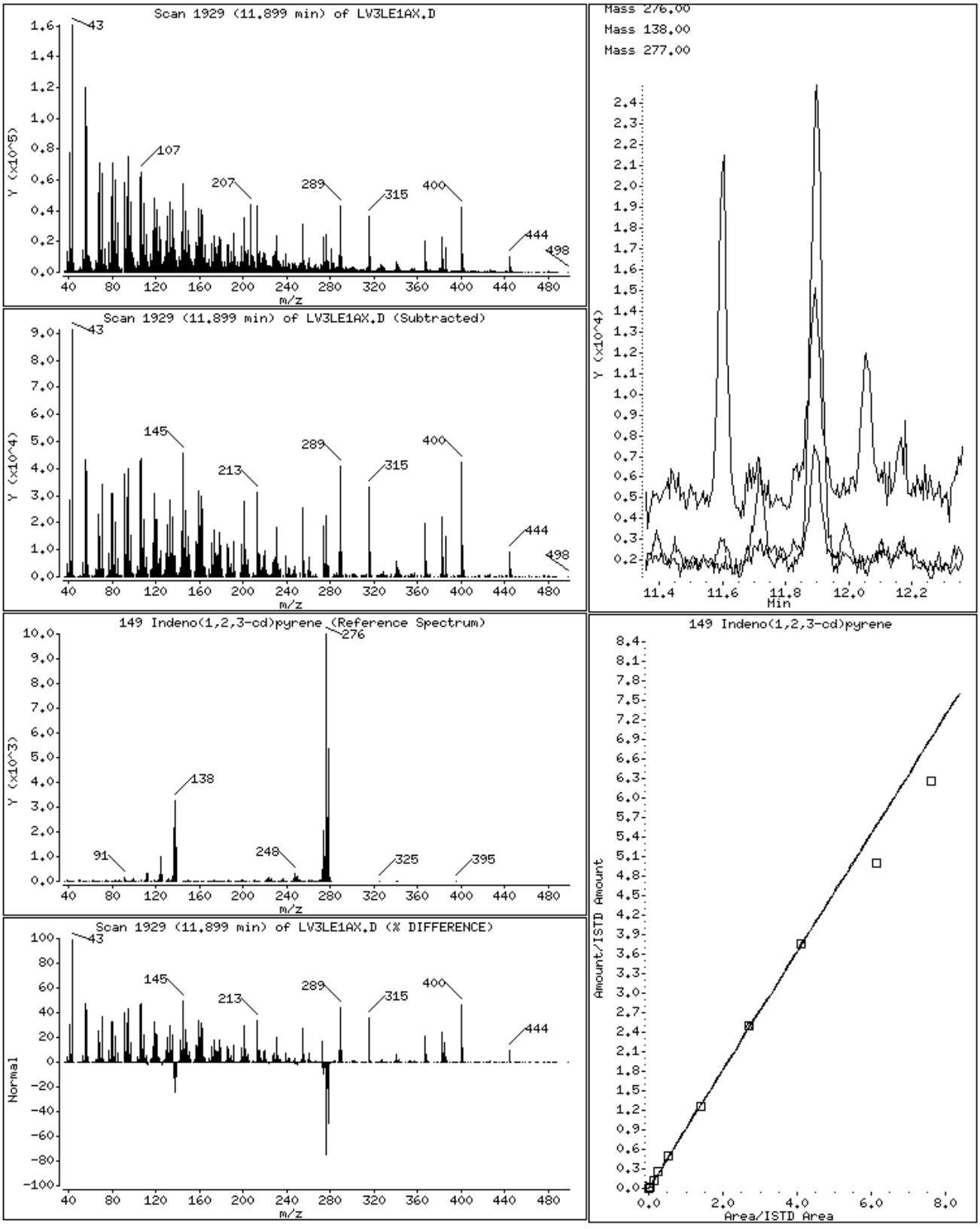
142 Benzo(k)fluoranthene



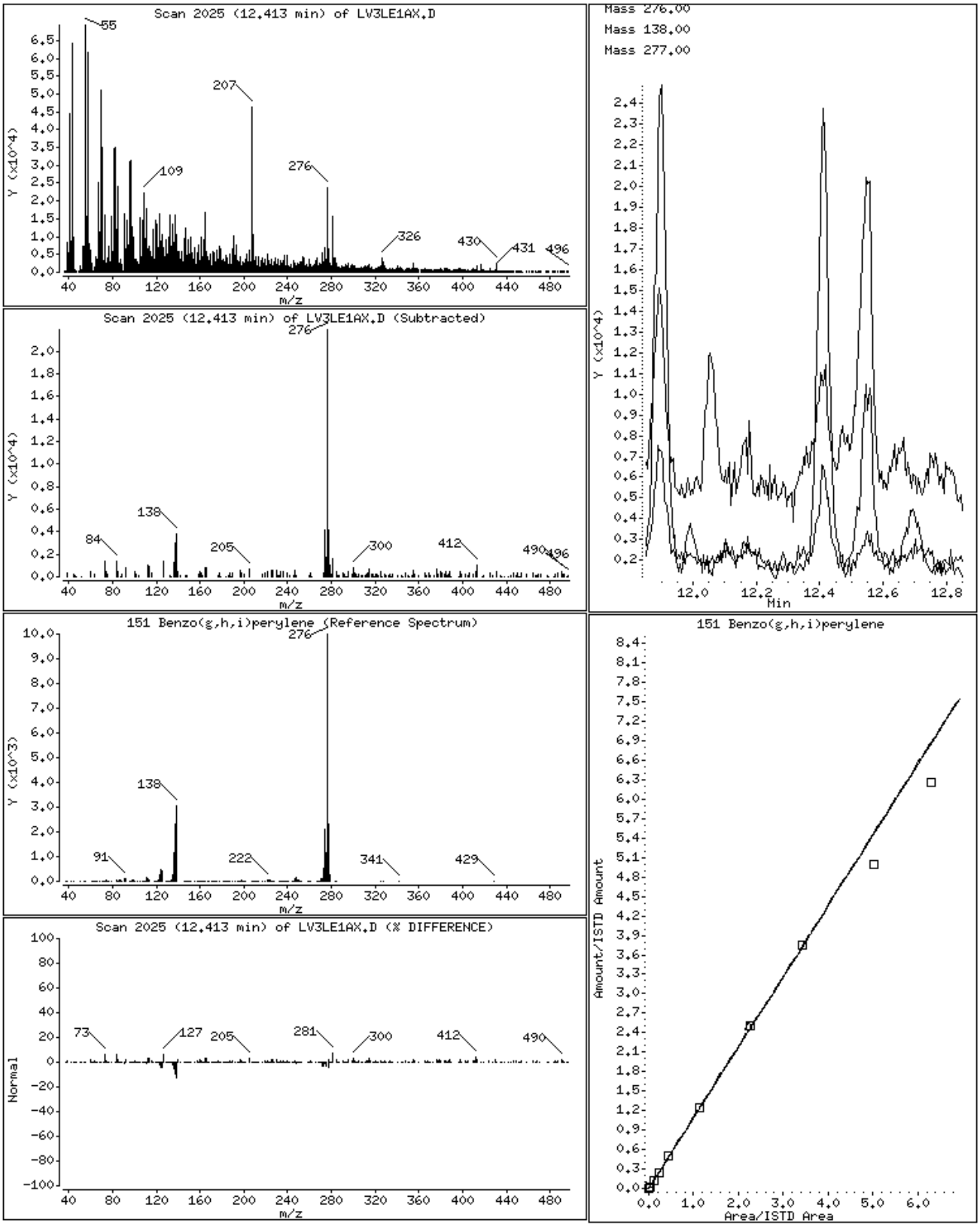
146 Benzo(a)pyrene



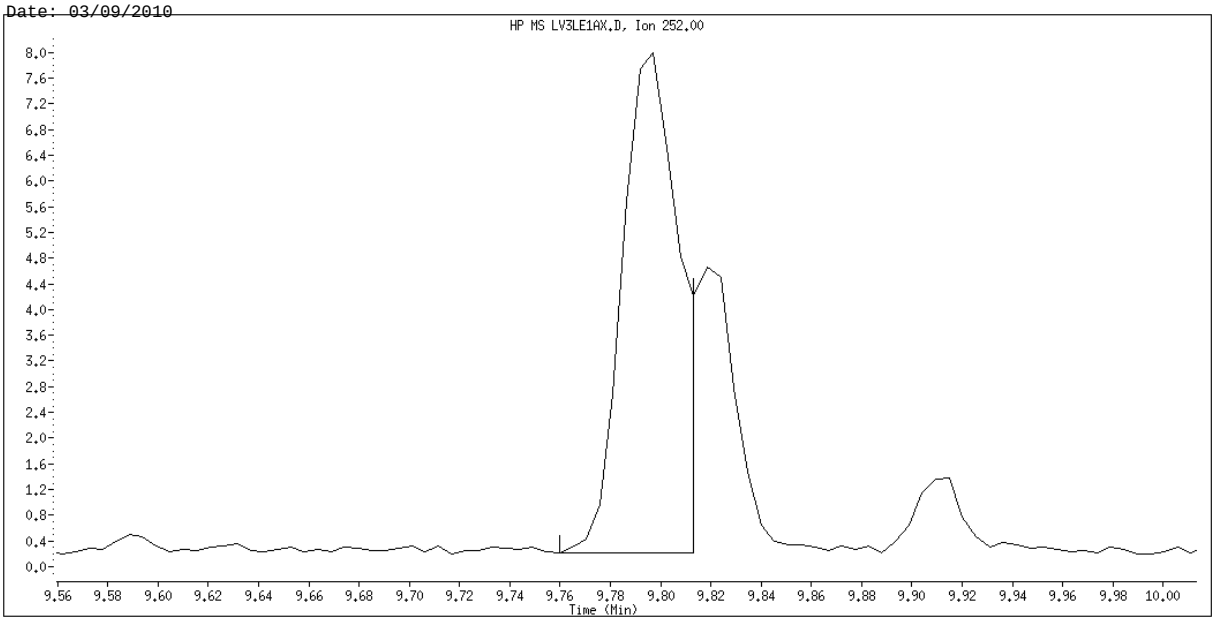
149 Indeno(1,2,3-cd)pyrene



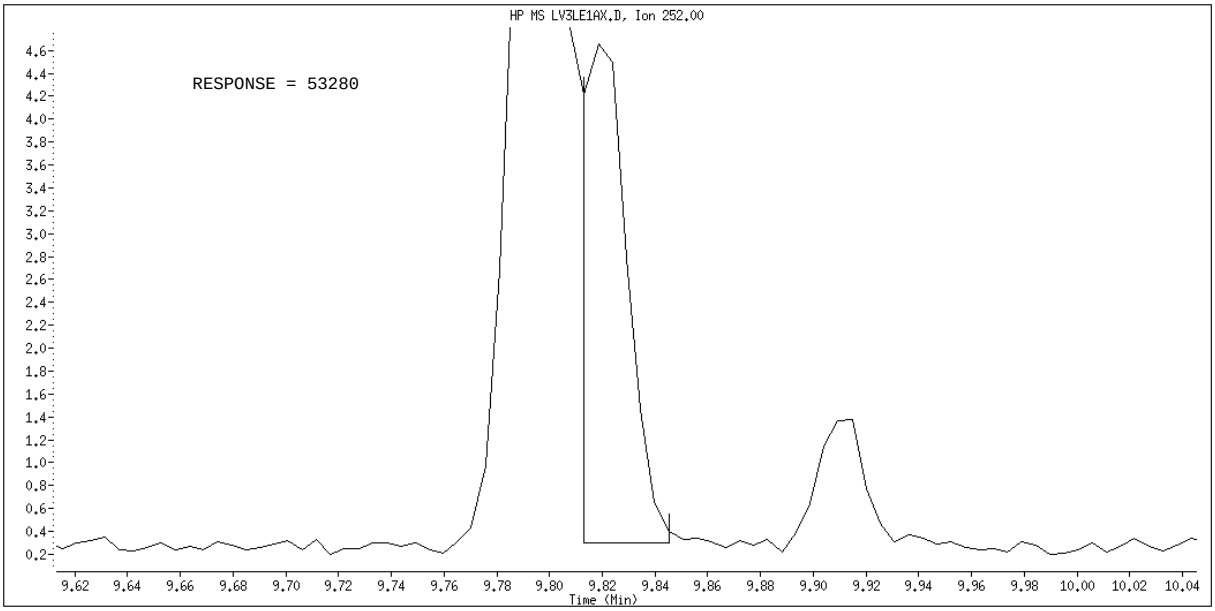
151 Benzo(g,h,i)perylene



Data File Name: LV3LE1AX.D
Inj. Date and Time: 08-MAR-2010 15:43
Instrument ID: a4hp7.i
Client ID: F15SS-037M-5429-SO
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/09/2010



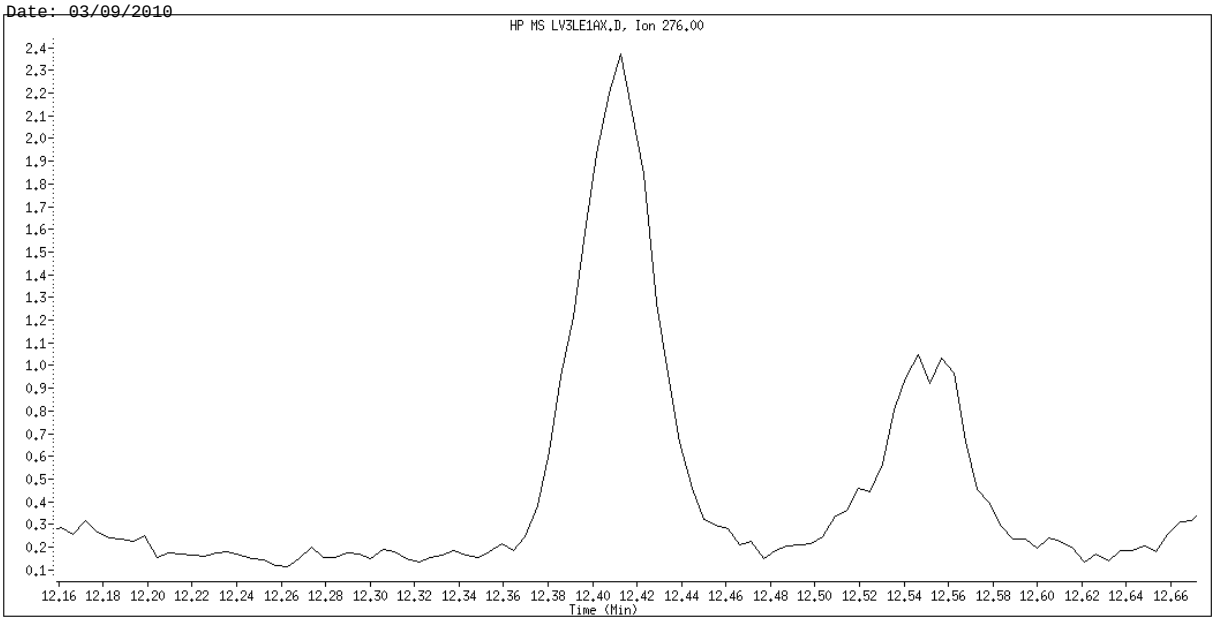
Original Integration



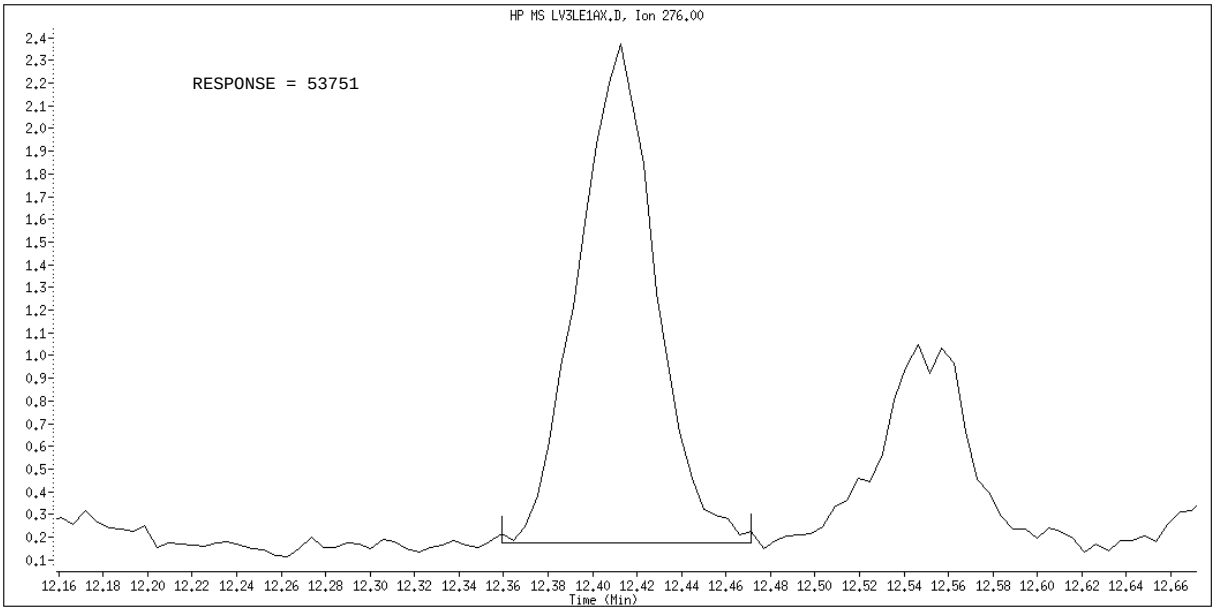
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Data File Name: LV3LE1AX.D
Inj. Date and Time: 08-MAR-2010 15:43
Instrument ID: a4hp7.i
Client ID: F15SS-037M-5429-SO
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Science Applications International Corp

Client Sample ID: F15SS-038M-5430-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-017 **Work Order #...:** LV3LH1AC **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0060040
Dilution Factor: 4 **Initial Wgt/Vol:** 30.01 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 1.9 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	27	ug/kg	13
Acenaphthylene	ND	27	ug/kg	13
Anthracene	ND	27	ug/kg	13
Benzo(a)anthracene	ND	27	ug/kg	13
Benzo(b)fluoranthene	ND	27	ug/kg	13
Benzo(k)fluoranthene	ND	27	ug/kg	13
Benzo(ghi)perylene	ND	27	ug/kg	13
Benzo(a)pyrene	ND	27	ug/kg	13
Chrysene	ND	27	ug/kg	4.5
Dibenzo(a,h)anthracene	ND	27	ug/kg	13
Fluoranthene	ND	27	ug/kg	13
Fluorene	ND	27	ug/kg	13
Indeno(1,2,3-cd)pyrene	ND	27	ug/kg	13
Naphthalene	ND	27	ug/kg	13
Phenanthrene	ND	27	ug/kg	13
Pyrene	ND	27	ug/kg	13

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	65 DIL	(45 - 105)
2-Fluorophenol	73 DIL	(35 - 105)
Phenol-d5	66 DIL	(40 - 100)
2,4,6-Tribromophenol	65 DIL	(35 - 125)
Nitrobenzene-d5	64 DIL	(35 - 100)
Terphenyl-d14	80 DIL	(30 - 125)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\LV3LH1AC.D
Lab Smp Id: lv3lh1ac Client Smp ID: F15SS-038M-5430-SO
Inj Date : 08-MAR-2010 14:45
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3lh1ac,00308a.b,8270c-625,1-pah.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 13:55 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 16
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 1-pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.571	3.560	(1.000)	324504	2.00000		(Q)
* 2 Naphthalene-d8	136	4.459	4.453	(1.000)	1349716	2.00000		
* 3 Acenaphthene-d10	164	5.721	5.721	(1.000)	806654	2.00000		
* 4 Phenanthrene-d10	188	6.807	6.807	(1.000)	1364020	2.00000		
* 5 Chrysene-d12	240	8.775	8.769	(1.000)	1598735	2.00000		
* 6 Perylene-d12	264	10.257	10.235	(1.000)	1513581	2.00000		
51 Naphthalene	128	Compound Not Detected.						
62 2-Methylnaphthalene	142	Compound Not Detected.						
63 1-Methylnaphthalene	142	Compound Not Detected.						
70 2-Chloronaphthalene	162	Compound Not Detected.						
79 Acenaphthylene	152	Compound Not Detected.						
82 Acenaphthene	153	Compound Not Detected.						
86 Dibenzofuran	168	Compound Not Detected.						
94 Fluorene	166	Compound Not Detected.						
115 Phenanthrene	178	Compound Not Detected.						
116 Anthracene	178	Compound Not Detected.						
123 Fluoranthene	202	Compound Not Detected.						
125 Pyrene	202	Compound Not Detected.						

136	Benzo(a)Anthracene	228	Compound Not Detected.
137	Chrysene	228	Compound Not Detected.

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
141 Benzo(b)fluoranthene	252	Compound Not Detected.					
142 Benzo(k)fluoranthene	252	Compound Not Detected.					
146 Benzo(a)pyrene	252	Compound Not Detected.					
149 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
151 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 154 Nitrobenzene-d5	82	3.945	3.940	(0.885)	162035	0.79457	423.63
$ 155 2-Fluorobiphenyl	172	5.213	5.207	(0.911)	375271	0.80641	429.94
$ 156 Terphenyl-d14	244	7.946	7.940	(0.906)	504963	1.00545	536.06
$ 157 Phenol-d5	99	3.287	3.260	(0.921)	301990	1.24217	662.27
$ 158 2-Fluorophenol	112	2.811	2.688	(0.787)	251014	1.36411	727.28
$ 159 2,4,6-Tribromophenol	330	6.293	6.288	(1.100)	66479	1.22119	651.09
$ 186 2-Chlorophenol-d4	132	3.432	3.405	(0.961)	262952	1.36824	729.49
$ 187 1,2-Dichlorobenzene-d4	152	3.683	3.667	(1.031)	95716	0.73816	393.55

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

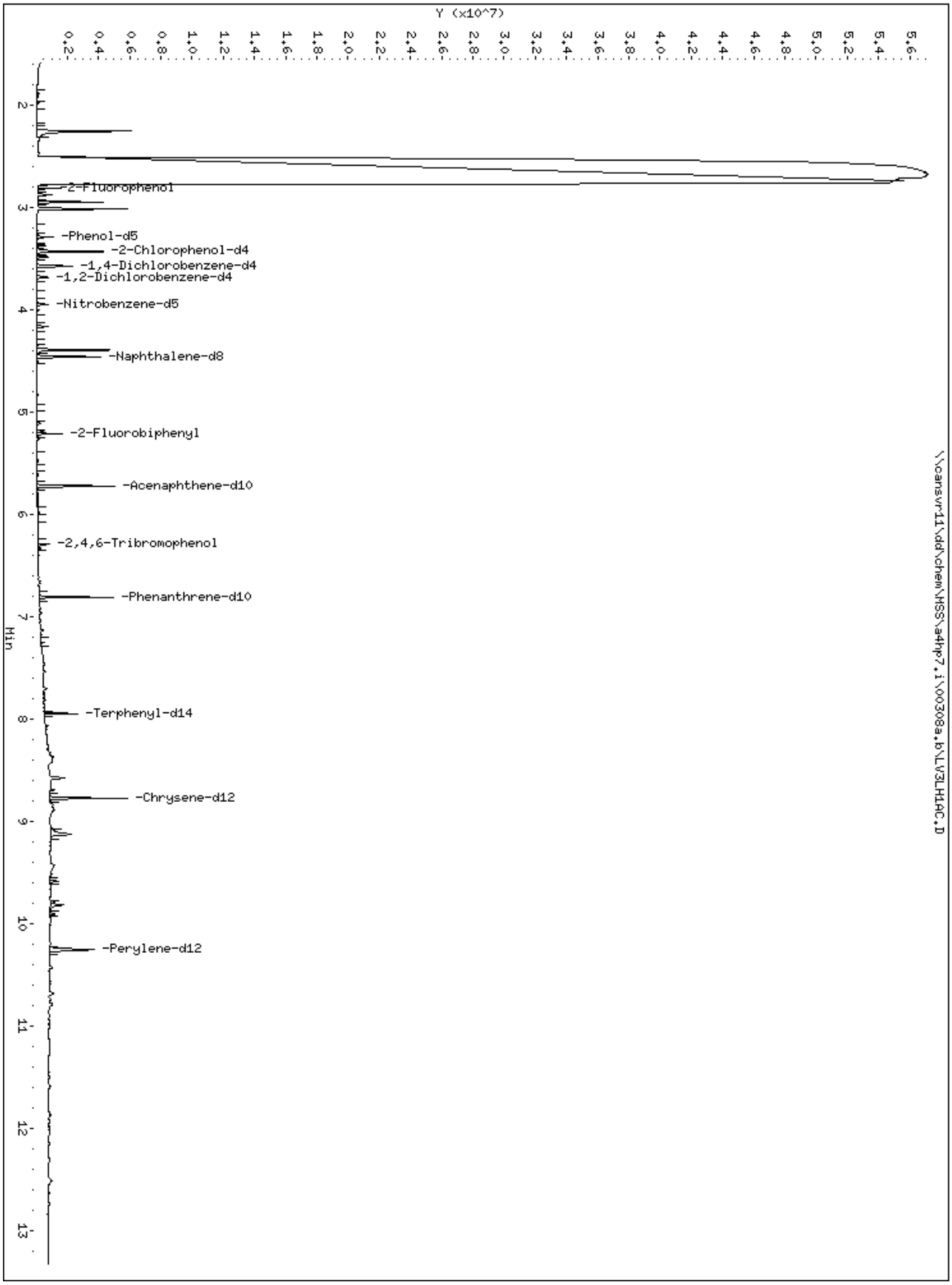
Instrument ID: a4hp7.i
Lab File ID: LV3LH1AC.D
Lab Smp Id: lv3lh1ac
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 10:16
Client Smp ID: F15SS-038M-5430-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	388613	194307	777226	324504	-16.50
2 Naphthalene-d8	1628032	814016	3256064	1349716	-17.10
3 Acenaphthene-d10	875709	437855	1751418	806654	-7.89
4 Phenanthrene-d10	1398875	699438	2797750	1364020	-2.49
5 Chrysene-d12	1597704	798852	3195408	1598735	0.06
6 Perylene-d12	1473841	736921	2947682	1513581	2.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.56	3.06	4.06	3.57	0.30
2 Naphthalene-d8	4.45	3.95	4.95	4.46	0.12
3 Acenaphthene-d10	5.72	5.22	6.22	5.72	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.77	8.27	9.27	8.78	0.06
6 Perylene-d12	10.24	9.74	10.74	10.26	0.21

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^7)
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6
2
3
4
5
6
7
8
9
10
11
12
13
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
\\cansvr11\dd\chem\HSS\a4hp7.i\00308a.b\LW2LH10C.D

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-018 **Work Order #...:** LV3LJ1AC **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/12/10
Prep Batch #...: 0060040
Dilution Factor: 4 **Initial Wgt/Vol:** 30.05 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 2.0 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	200	ug/kg	13
Acenaphthylene	ND	200	ug/kg	13
Anthracene	ND	200	ug/kg	13
Benzo(a)anthracene	ND	200	ug/kg	13
Benzo(b)fluoranthene	**31 J**	**200**	**ug/kg**	**13**
Benzo(k)fluoranthene	ND	200	ug/kg	13
Benzoic acid	ND	3300	ug/kg	1400
Benzo(ghi)perylene	ND	200	ug/kg	13
Benzo(a)pyrene	ND	200	ug/kg	13
Benzyl alcohol	ND	1300	ug/kg	86
bis(2-Chloroethoxy) methane	ND	1300	ug/kg	90
bis(2-Chloroethyl)-ether	ND	1300	ug/kg	8.2
bis(2-Chloroisopropyl) ether	ND	1300	ug/kg	39
bis(2-Ethylhexyl) phthalate	**93 J,B**	**1300**	**ug/kg**	**78**
4-Bromophenyl phenyl ether	ND	1300	ug/kg	53
Butyl benzyl phthalate	ND	1300	ug/kg	41
Carbazole	ND	200	ug/kg	110
4-Chloroaniline	ND	1300	ug/kg	69
4-Chloro-3-methylphenol	ND	1300	ug/kg	86
2-Chloronaphthalene	ND	1300	ug/kg	13
2-Chlorophenol	ND	1300	ug/kg	110
4-Chlorophenyl phenyl ether	ND	1300	ug/kg	53
Dibenzo(a,h)anthracene	ND	200	ug/kg	13
Dibenzofuran	ND	1300	ug/kg	82
Di-n-butyl phthalate	ND	1300	ug/kg	61
1,2-Dichlorobenzene	ND	1300	ug/kg	40
1,3-Dichlorobenzene	ND	1300	ug/kg	45
1,4-Dichlorobenzene	ND	1300	ug/kg	82
3,3'-Dichlorobenzidine	ND	1300	ug/kg	73
2,4-Dichlorophenol	ND	1300	ug/kg	82
Diethyl phthalate	ND	1300	ug/kg	65
2,4-Dimethylphenol	ND	1300	ug/kg	82

(Continued on next page)

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-018 **Work Order #...:** LV3LJ1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dimethyl phthalate	ND	1300	ug/kg	69
4,6-Dinitro-2-methylphenol	ND	3300	ug/kg	330
2,4-Dinitrophenol	ND	3300	ug/kg	330
2,4-Dinitrotoluene	ND	1300	ug/kg	110
2,6-Dinitrotoluene	ND	1300	ug/kg	86
Di-n-octyl phthalate	ND	1300	ug/kg	110
Fluoranthene	**40 J**	**200**	**ug/kg**	**13**
Fluorene	ND	200	ug/kg	13
Hexachlorobenzene	ND	1300	ug/kg	8.6
Hexachlorobutadiene	ND	1300	ug/kg	110
Hexachlorocyclopenta-diene	ND	1300	ug/kg	110
Hexachloroethane	ND	1300	ug/kg	37
Indeno(1,2,3-cd)pyrene	ND	200	ug/kg	13
Isophorone	ND	1300	ug/kg	53
2-Methylnaphthalene	**140 J**	**1300**	**ug/kg**	**13**
2-Methylphenol	ND	1300	ug/kg	330
3-Methylphenol & 4-Methylphenol	ND	1300	ug/kg	20
Naphthalene	**69 J**	**200**	**ug/kg**	**13**
2-Nitroaniline	ND	3300	ug/kg	37
3-Nitroaniline	ND	3300	ug/kg	65
4-Nitroaniline	ND	3300	ug/kg	110
Nitrobenzene	ND	1300	ug/kg	9.0
2-Nitrophenol	ND	1300	ug/kg	110
4-Nitrophenol	ND	3300	ug/kg	330
N-Nitrosodiphenylamine	ND	1300	ug/kg	86
N-Nitrosodi-n-propyl-amine	ND	1300	ug/kg	110
Pentachlorophenol	ND	1300	ug/kg	330
Phenanthrene	**57 J**	**200**	**ug/kg**	**13**
Phenol	ND	1300	ug/kg	110
Pyrene	**34 J**	**200**	**ug/kg**	**13**
1,2,4-Trichloro-benzene	ND	1300	ug/kg	110
2,4,5-Trichloro-phenol	ND	1300	ug/kg	100
2,4,6-Trichloro-phenol	ND	1300	ug/kg	330
Chrysene	**31 J**	**200**	**ug/kg**	**4.5**

(Continued on next page)

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-018 **Work Order #...:** LV3LJ1AC **Matrix.....:** SO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	62 DIL	(45 - 105)
2-Fluorophenol	65 DIL	(35 - 105)
Phenol-d5	62 DIL	(40 - 100)
2,4,6-Tribromophenol	58 DIL	(35 - 125)
Nitrobenzene-d5	62 DIL	(35 - 100)
Terphenyl-d14	77 DIL	(30 - 125)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\LV3LJ1AC.D
Lab Smp Id: lv3lj1ac Client Smp ID: F16SS-026M-5431-SO
Inj Date : 12-MAR-2010 11:28
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3lj1ac,00312a.b,8270c-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Meth Date : 15-Mar-2010 14:43 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 8
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.548	3.538	(1.000)	325703	2.00000		(Q)
* 2 Naphthalene-d8	136	4.436	4.431	(1.000)	1378648	2.00000		
* 3 Acenaphthene-d10	164	5.699	5.699	(1.000)	809251	2.00000		
* 4 Phenanthrene-d10	188	6.784	6.784	(1.000)	1345214	2.00000		
* 5 Chrysene-d12	240	8.747	8.747	(1.000)	1575251	2.00000		
* 6 Perylene-d12	264	10.208	10.207	(1.000)	1461752	2.00000		
9 Pyridine	79	Compound Not Detected.						
10 N-Nitrosodimethylamine	74	Compound Not Detected.						
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	Compound Not Detected.						
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	Compound Not Detected.						
21 Aniline	93	Compound Not Detected.						
22 Phenol	94	Compound Not Detected.						
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	Compound Not Detected.						
26 1,3-Dichlorobenzene	146	Compound Not Detected.						
27 1,4-Dichlorobenzene	146	Compound Not Detected.						

28	1,2-Dichlorobenzene	146	Compound Not Detected.
29	Benzyl Alcohol	108	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
30	2-Methylphenol	108	Compound Not Detected.					
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	4.447	4.447	(1.002)	81549	0.12793	68.114
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	4.939	4.939	(1.113)	87485	0.25209	134.22
63	1-Methylnaphthalene	142	5.014	5.014	(1.130)	64172	0.16081	85.624
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					

212	Atrazine	200	Compound Not Detected.
111	Pentachlorophenol	266	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
115	Phenanthrene	178	6.800	6.806	(1.002)	76026	0.10404	55.394
116	Anthracene	178	Compound Not Detected.					
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
123	Fluoranthene	202	7.672	7.672	(1.131)	54740	0.07310	38.921
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.843	7.849	(0.897)	51139	0.06297	33.529
131	Butylbenzylphthalate	149	Compound Not Detected.					
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	Compound Not Detected.					
137	Chrysene	228	8.769	8.769	(1.002)	42097	0.05722	30.466
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.667	8.662	(0.991)	92697	0.17130	91.206
140	Di-n-octylphthalate	149	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	9.753	9.753	(0.955)	43409	0.05778	30.763(QM)
142	Benzo(k)fluoranthene	252	Compound Not Detected.					
146	Benzo(a)pyrene	252	Compound Not Detected.					
149	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150	Dibenz(a,h)anthracene	278	Compound Not Detected.					
151	Benzo(g,h,i)perylene	276	Compound Not Detected.					
198	1,4-Dioxane	88	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.923	3.917	(0.884)	160159	0.76889	409.39
$ 155	2-Fluorobiphenyl	172	5.191	5.190	(0.911)	363371	0.77833	414.42
$ 156	Terphenyl-d14	244	7.924	7.924	(0.906)	476953	0.96383	513.19
$ 157	Phenol-d5	99	3.260	3.244	(0.919)	283455	1.16164	618.51
$ 158	2-Fluorophenol	112	2.762	2.661	(0.778)	224665	1.21642	647.68
$ 159	2,4,6-Tribromophenol	330	6.271	6.271	(1.100)	59170	1.08344	576.87
$ 186	2-Chlorophenol-d4	132	3.404	3.383	(0.959)	244553	1.26782	675.05
$ 187	1,2-Dichlorobenzene-d4	152	3.655	3.645	(1.030)	88118	0.67706	360.50
M 195	Cresols, total	100	Compound Not Detected.					
101	Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

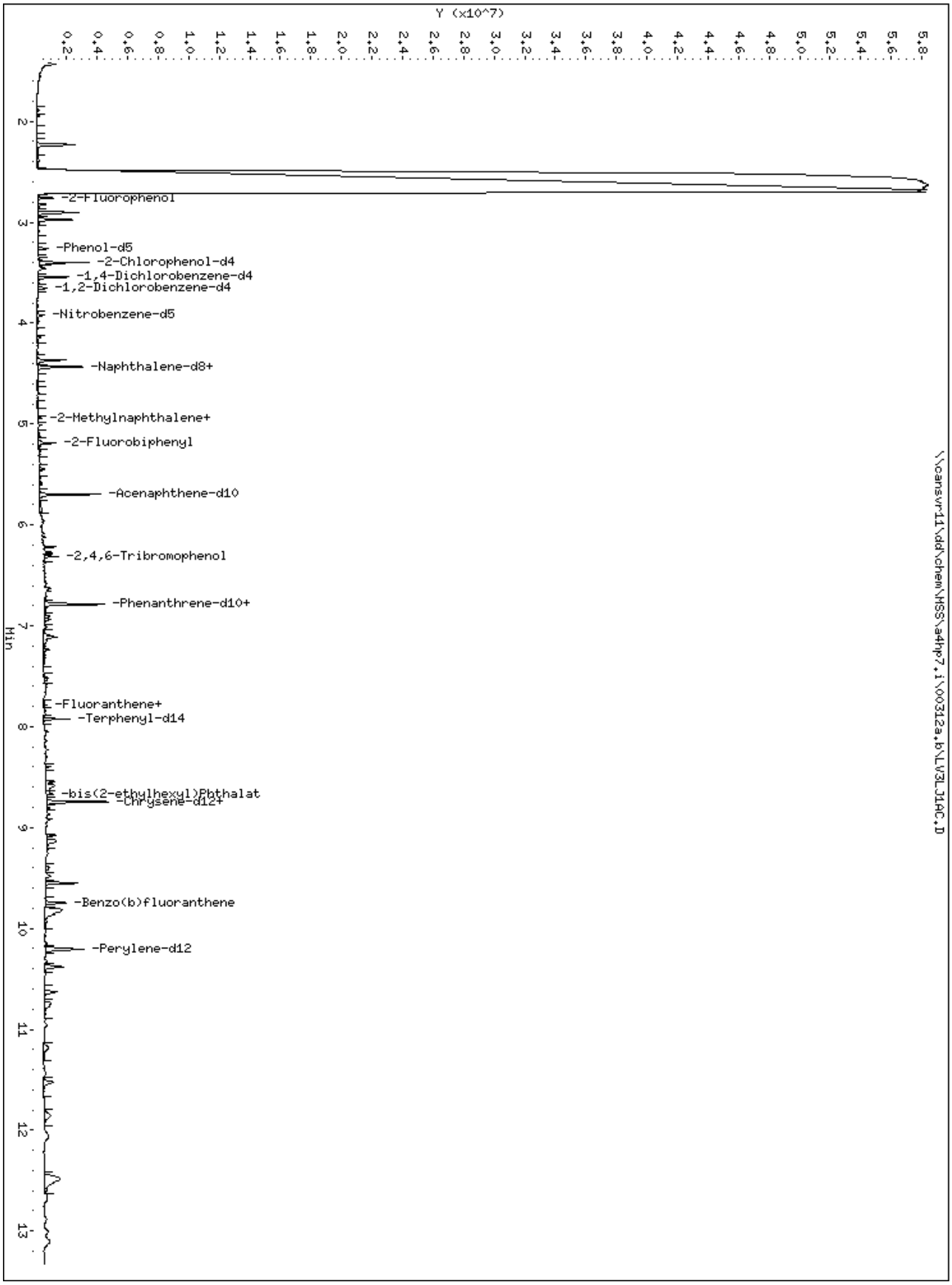
Instrument ID: a4hp7.i
Lab File ID: LV3LJ1AC.D
Lab Smp Id: lv3lj1ac
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Misc Info:

Calibration Date: 12-MAR-2010
Calibration Time: 09:31
Client Smp ID: F16SS-026M-5431-SO
Level: LOW
Sample Type: SOIL

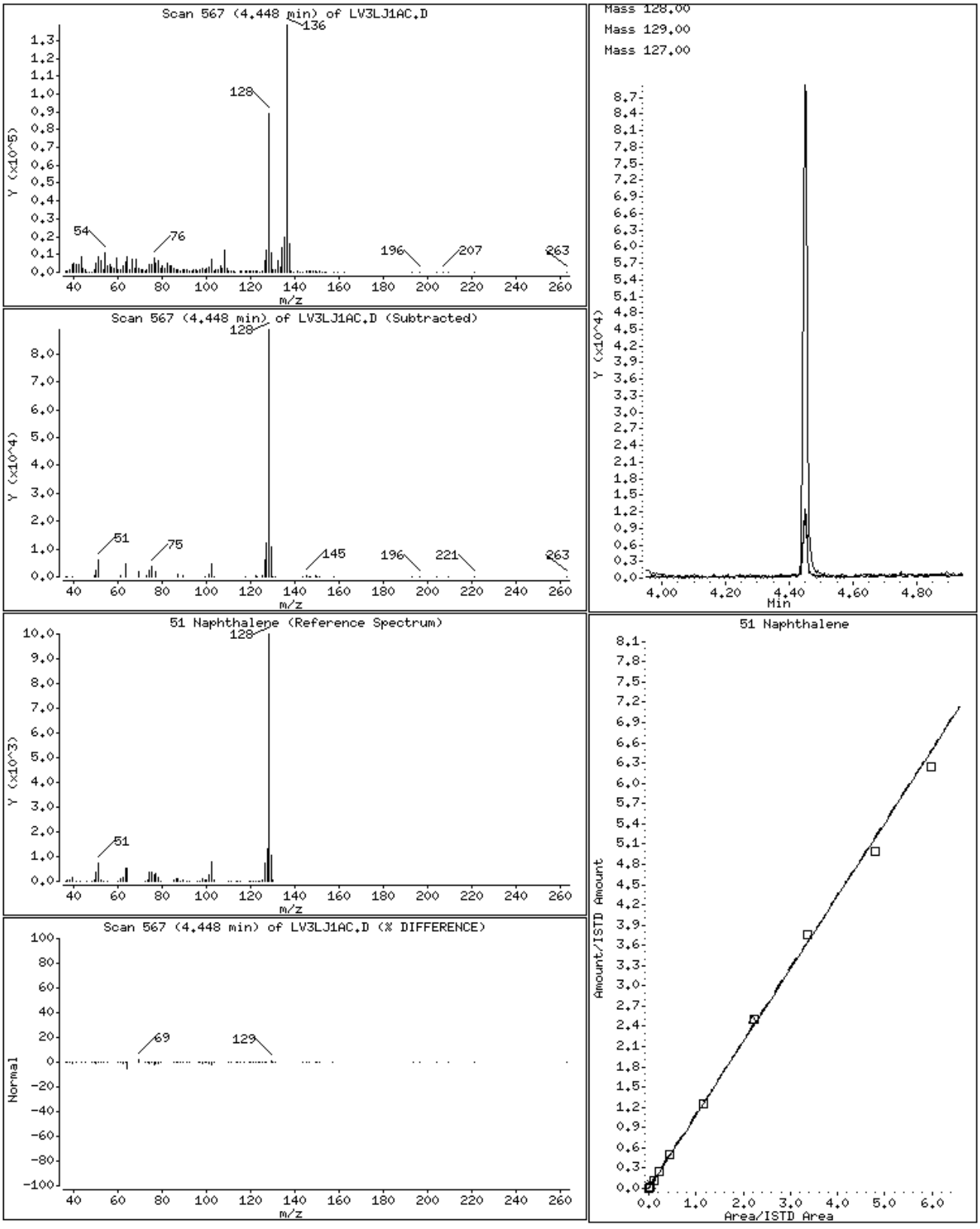
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	406631	203316	813262	325703	-19.90
2 Naphthalene-d8	1724183	862092	3448366	1378648	-20.04
3 Acenaphthene-d10	937660	468830	1875320	809251	-13.69
4 Phenanthrene-d10	1520172	760086	3040344	1345214	-11.51
5 Chrysene-d12	1731041	865521	3462082	1575251	-9.00
6 Perylene-d12	1586026	793013	3172052	1461752	-7.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.55	0.30
2 Naphthalene-d8	4.43	3.93	4.93	4.44	0.12
3 Acenaphthene-d10	5.70	5.20	6.20	5.70	0.00
4 Phenanthrene-d10	6.78	6.28	7.28	6.78	0.00
5 Chrysene-d12	8.75	8.25	9.25	8.75	0.00
6 Perylene-d12	10.21	9.71	10.71	10.21	0.00

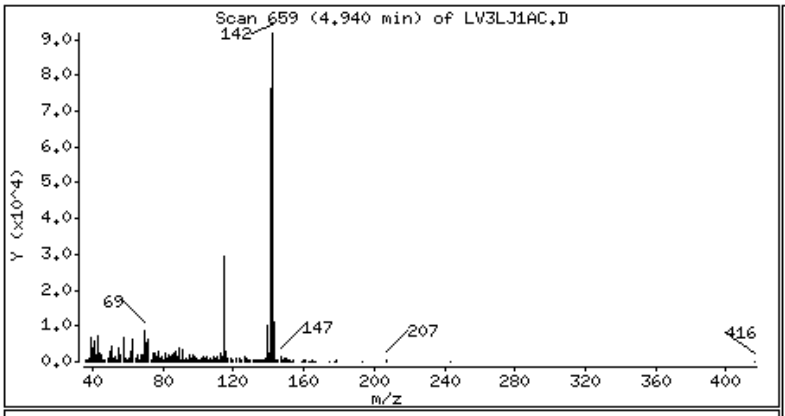
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

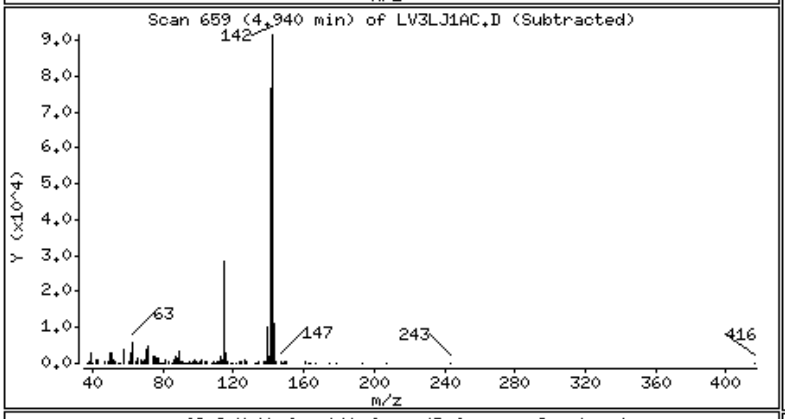

Y (x10^7)
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8+
-2-Methylnaphthalene+
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-Fluoranthene+
-Terphenyl-d14
-bis(2-ethylhexyl)Phthalat
-Chrysene-d12+
-Benzo(b)fluoranthene
-Perylene-d12
\\cansvr11\dd\chem\HSS\a4hp7.i\00312a.b\LW2LJ10C.D

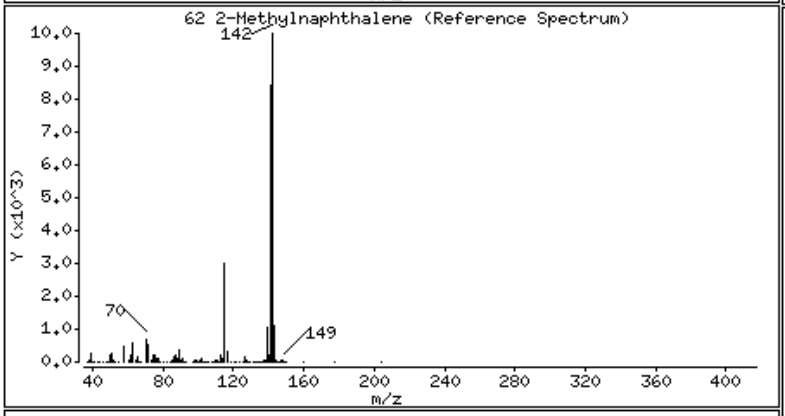
51 Naphthalene

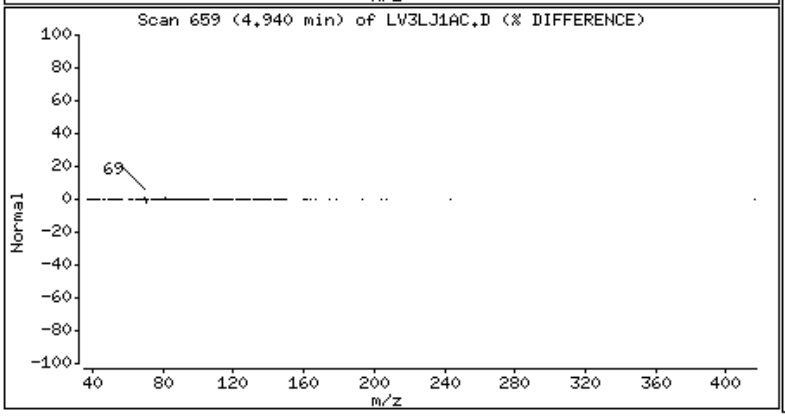


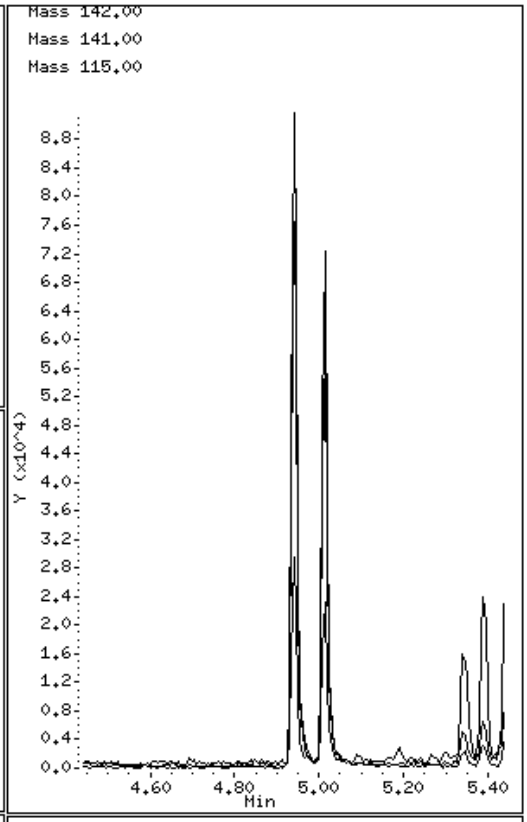
62 2-Methylnaphthalene

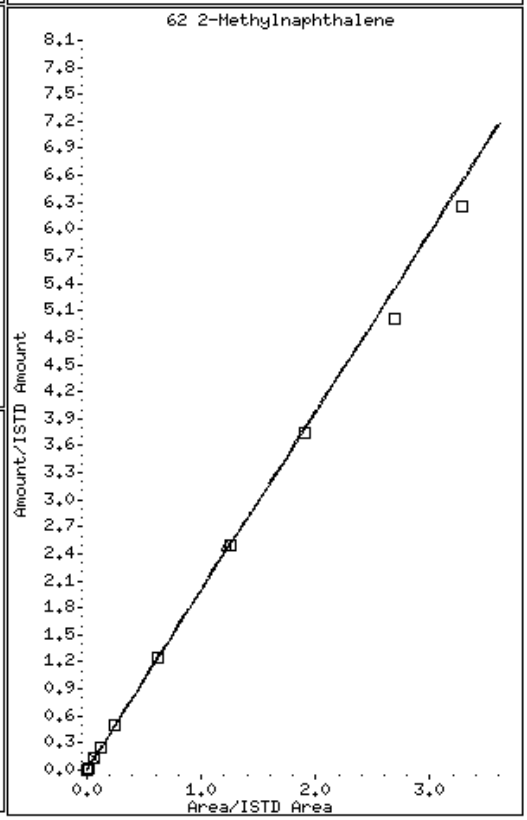




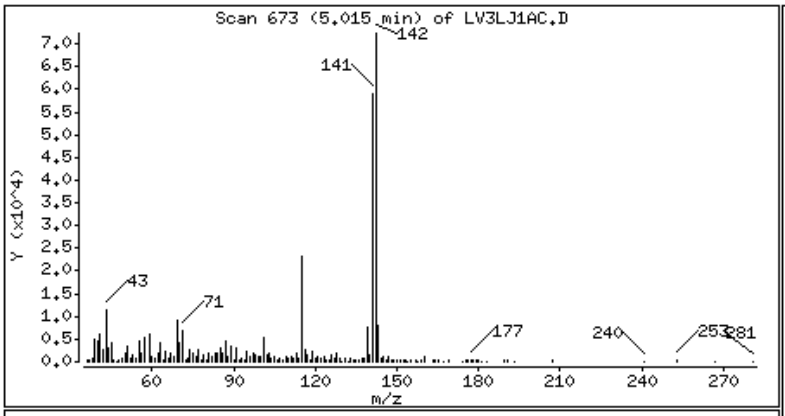


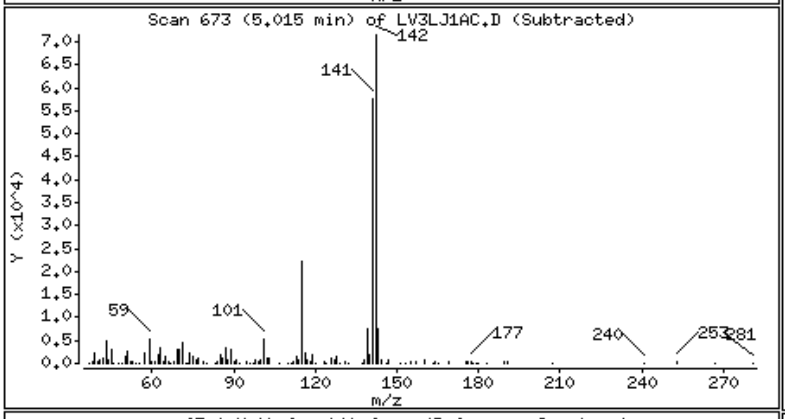


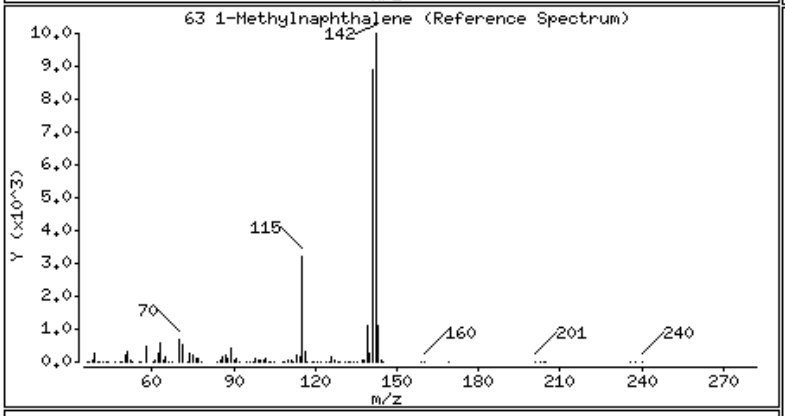


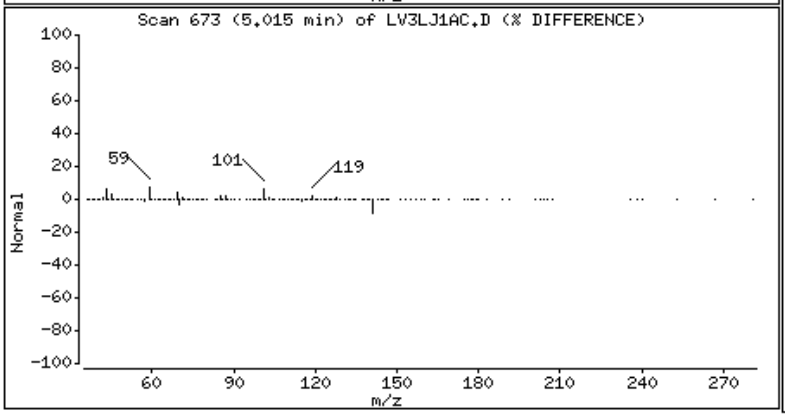


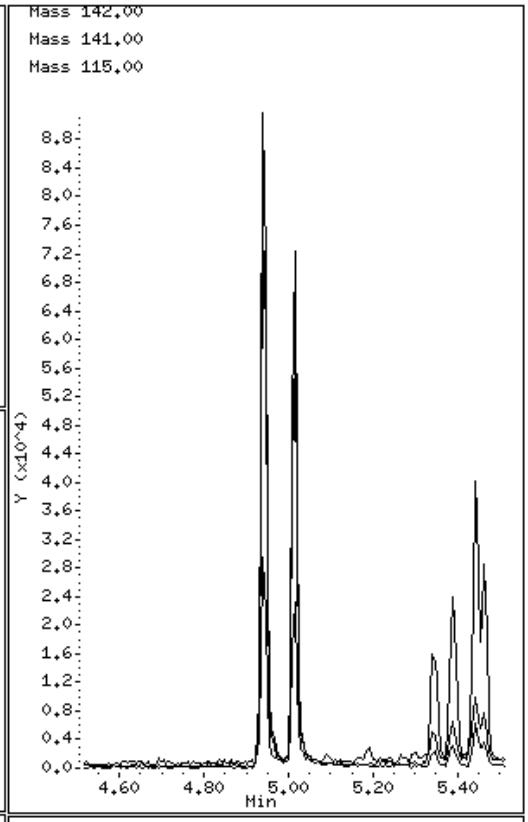
63 1-Methylnaphthalene

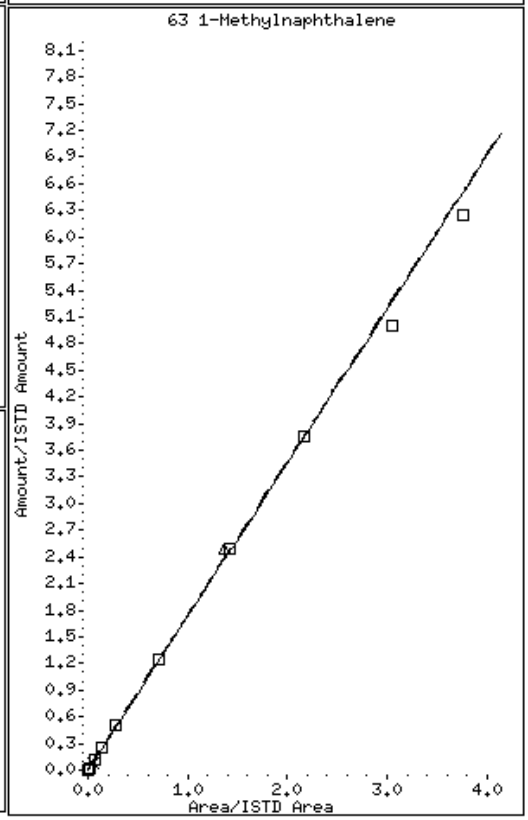




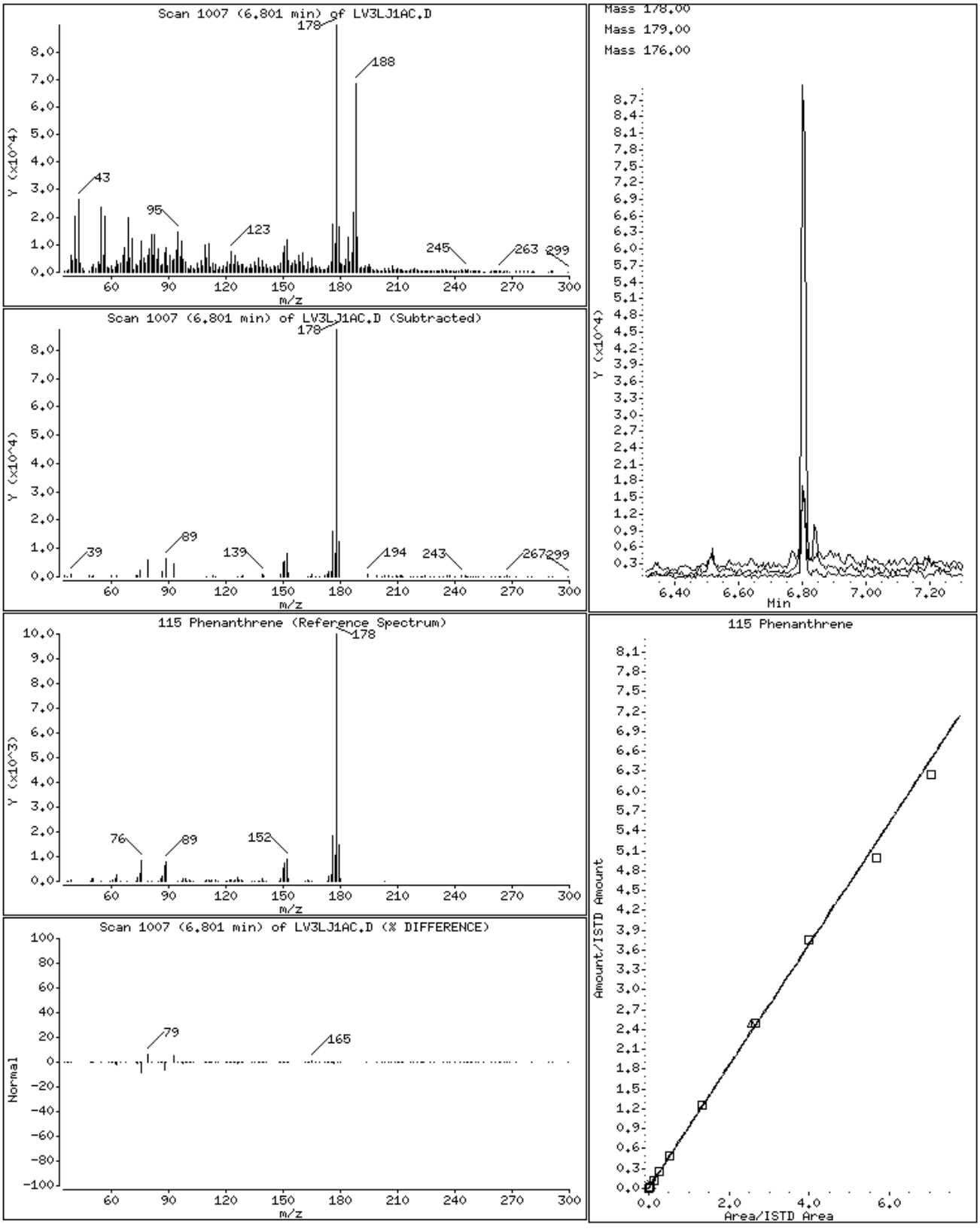




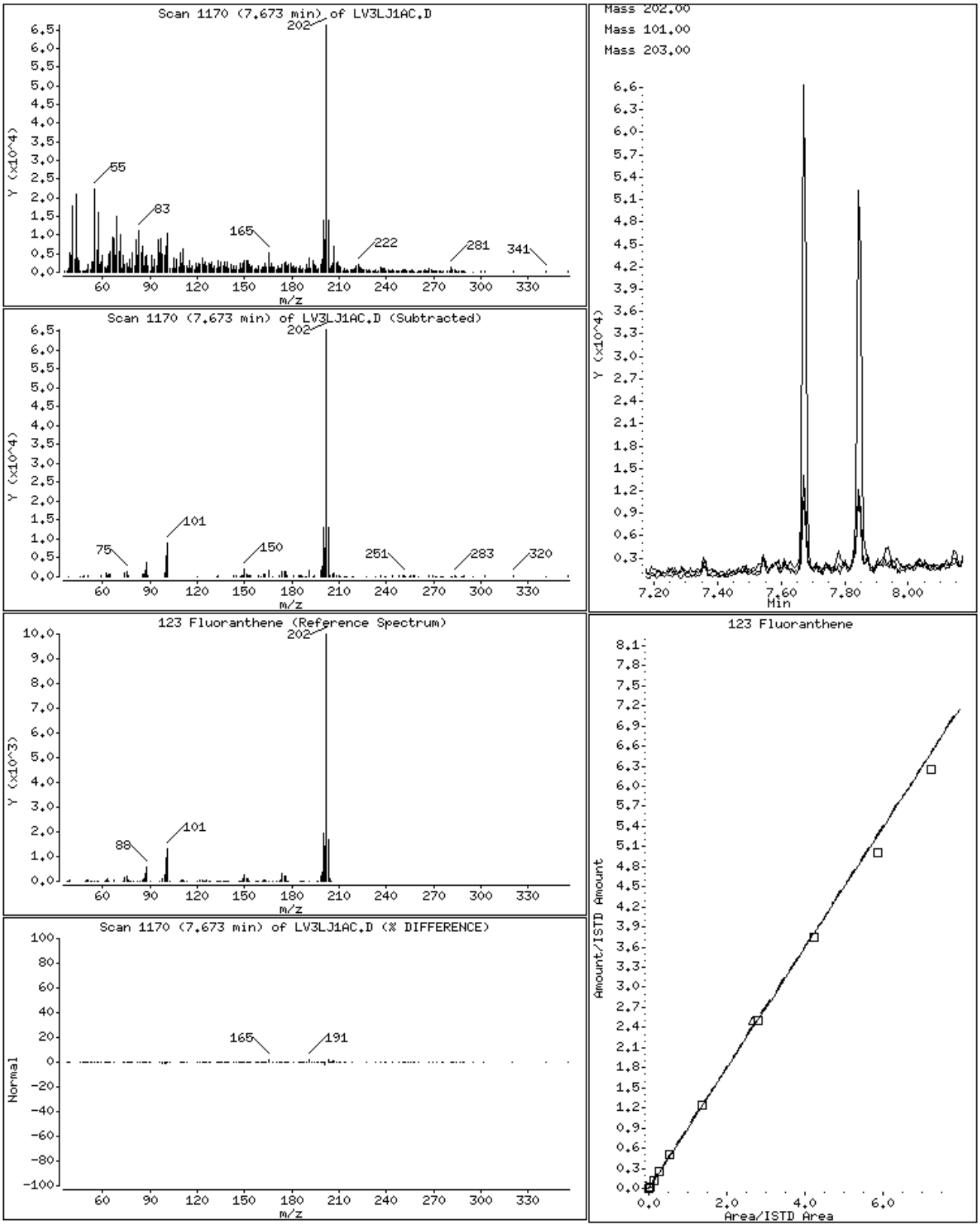




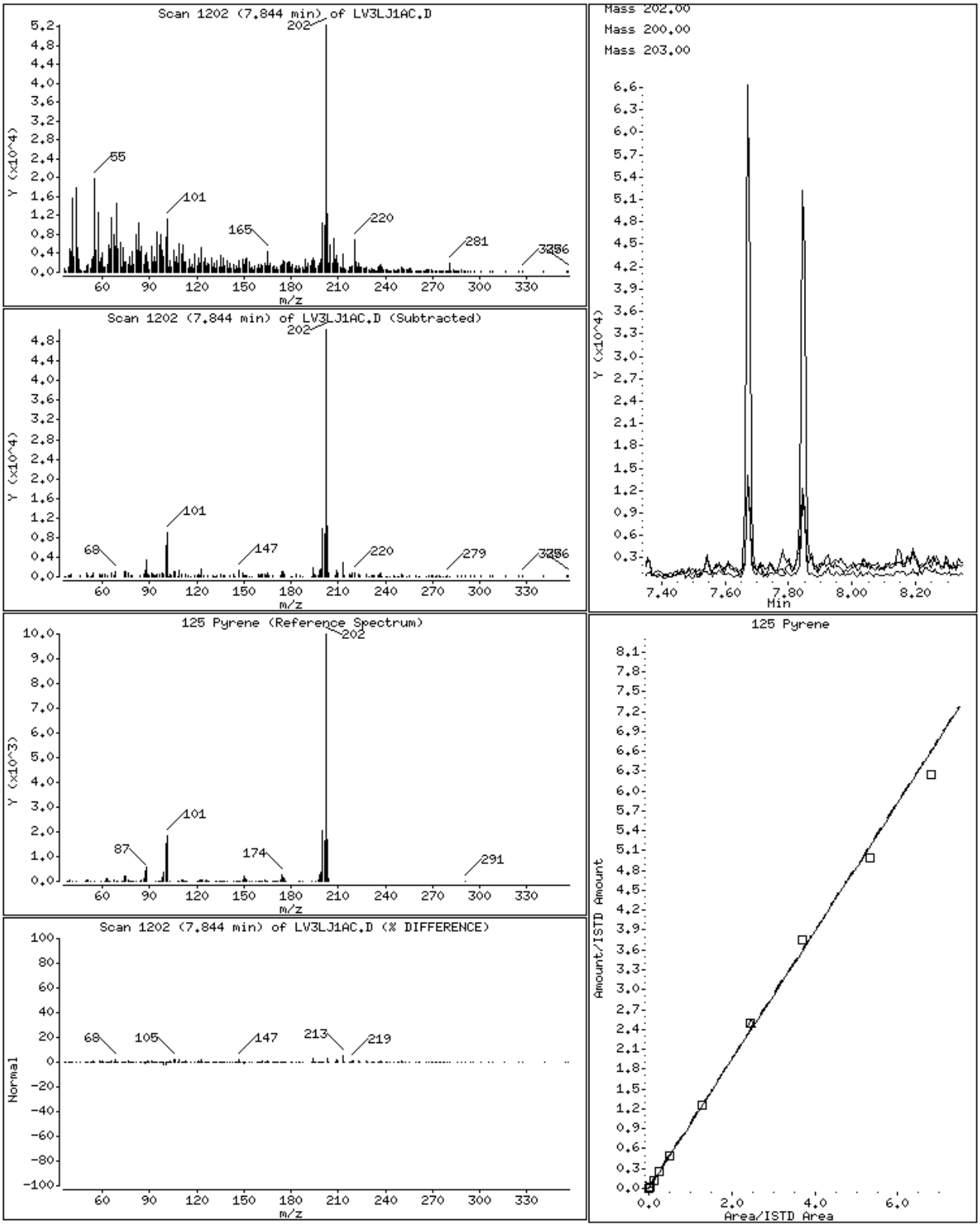
115 Phenanthrene



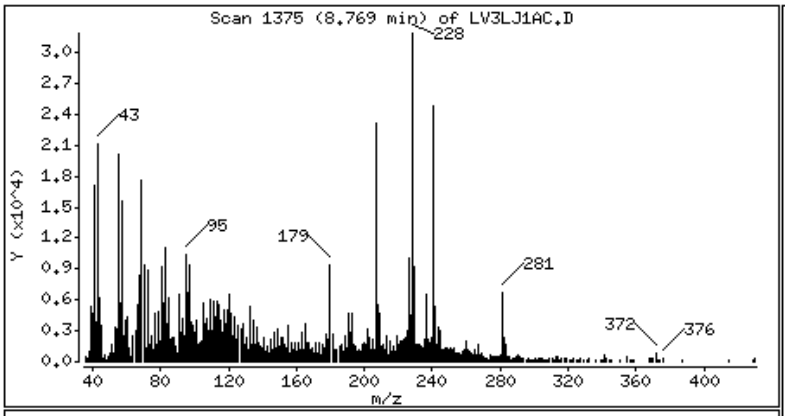
123 Fluoranthene

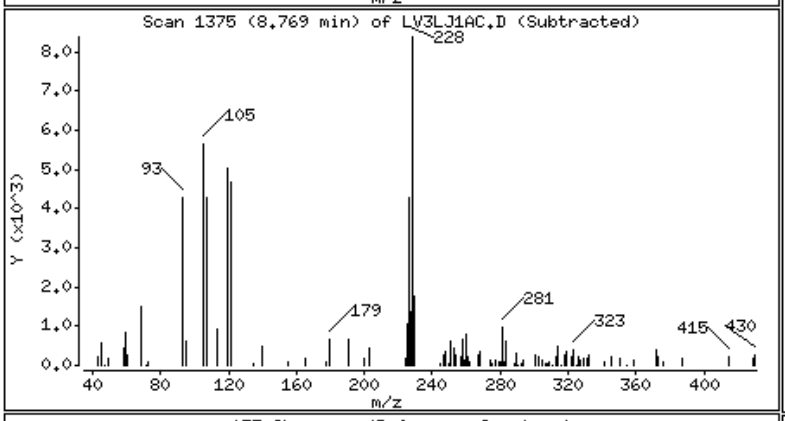


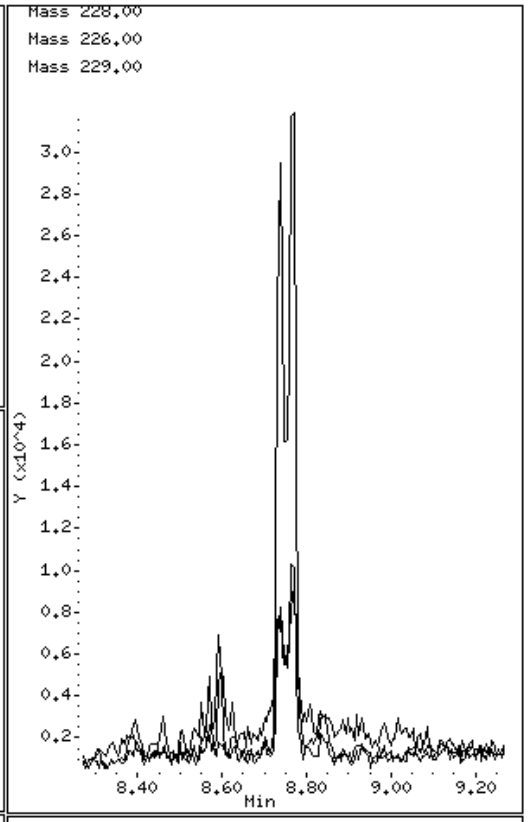
125 Pyrene

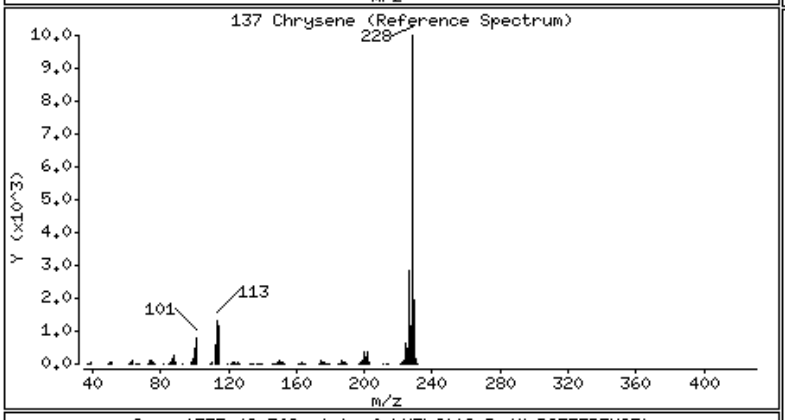

Scan 1202 (7.844 min) of LV3LJ1AC.D
Y (x10^4)
m/z
202
55
101
165
220
281
Scan 1202 (7.844 min) of LV3LJ1AC.D (Subtracted)
68
147
279
125 Pyrene (Reference Spectrum)
Y (x10^3)
87
174
291
Scan 1202 (7.844 min) of LV3LJ1AC.D (% DIFFERENCE)
Normal
105
213
219
Mass 202.00
Mass 200.00
Mass 203.00
Min
125 Pyrene
Amount/ISTD Amount
Area/ISTD Area

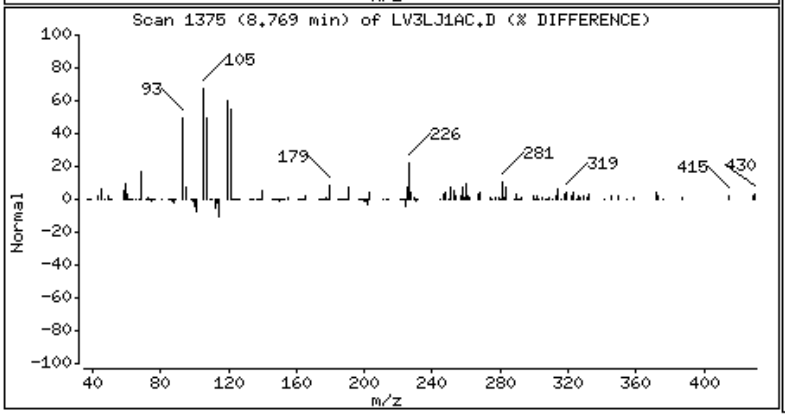
137 Chrysene

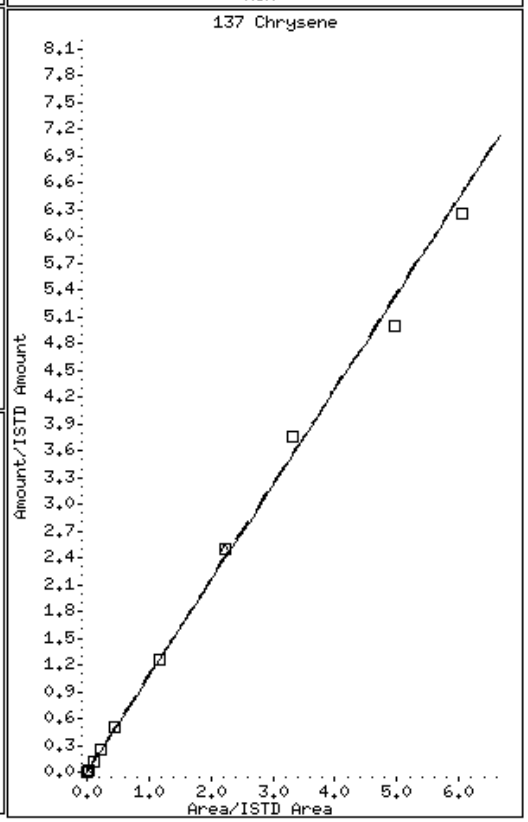




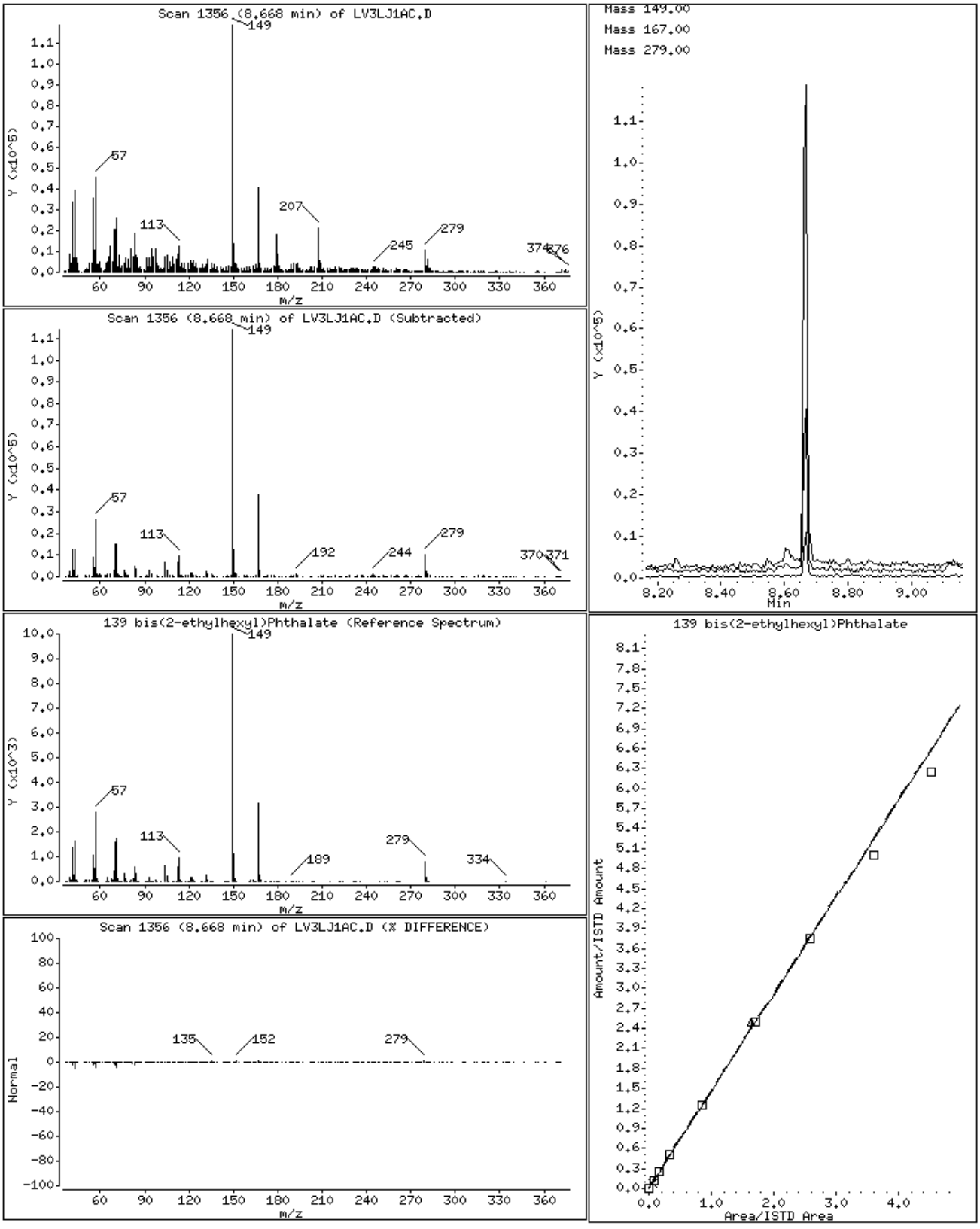




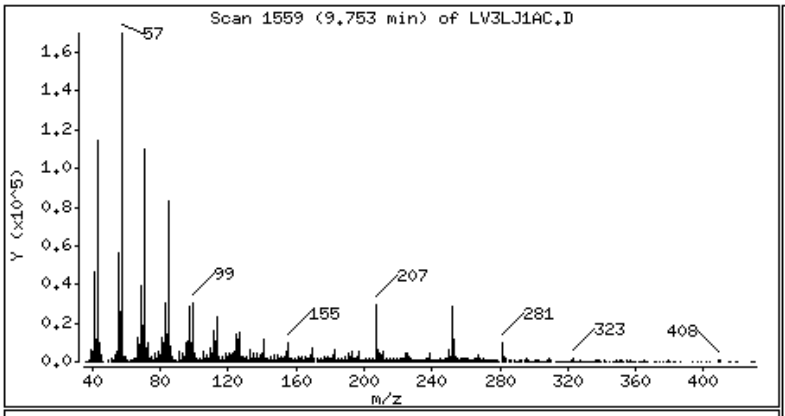


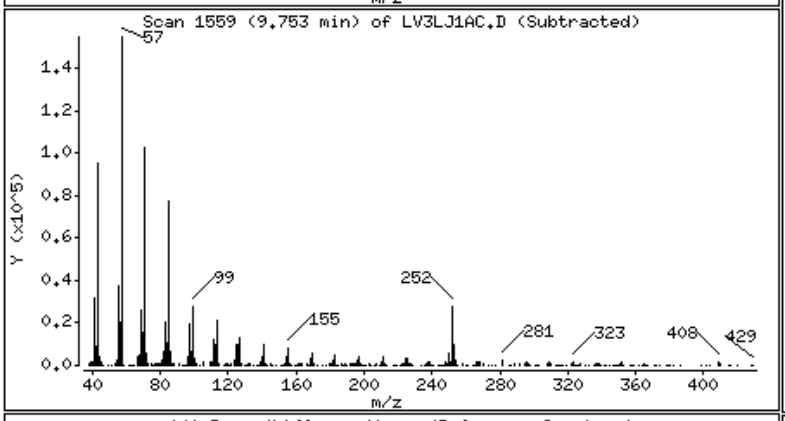


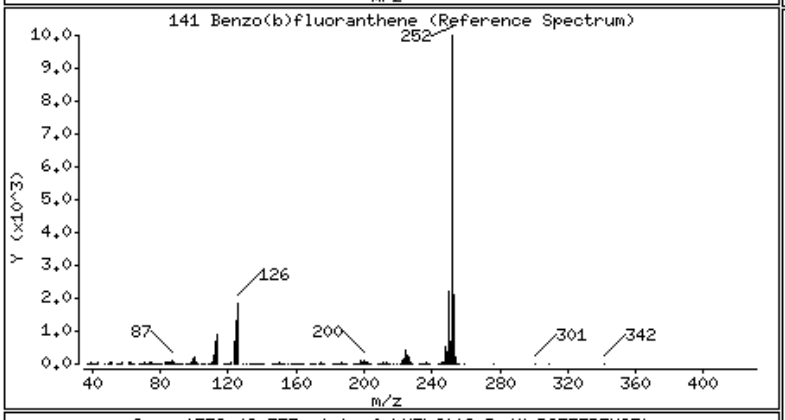
139 bis(2-ethylhexyl)Phthalate

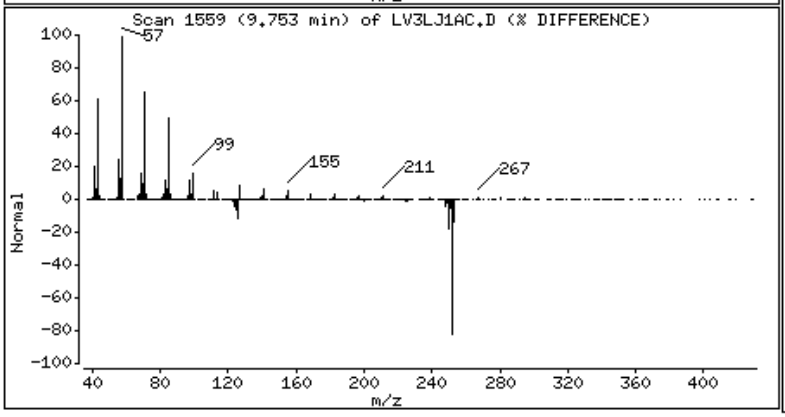


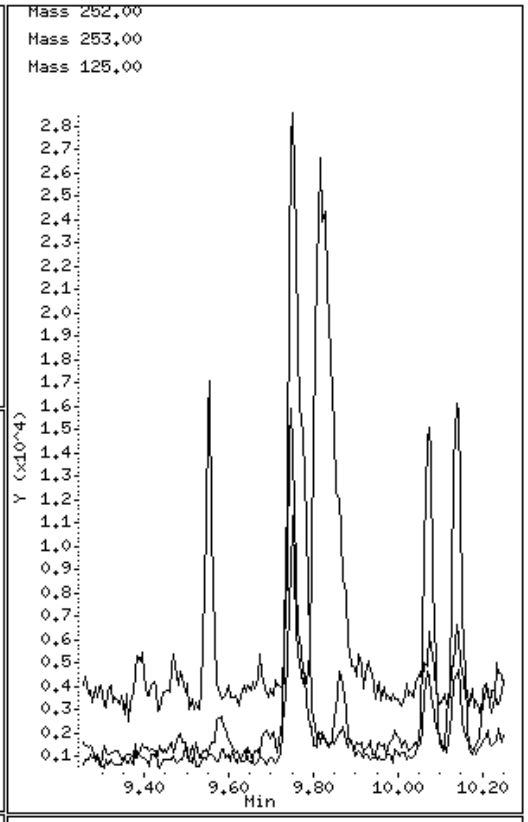
141 Benzo(b)fluoranthene

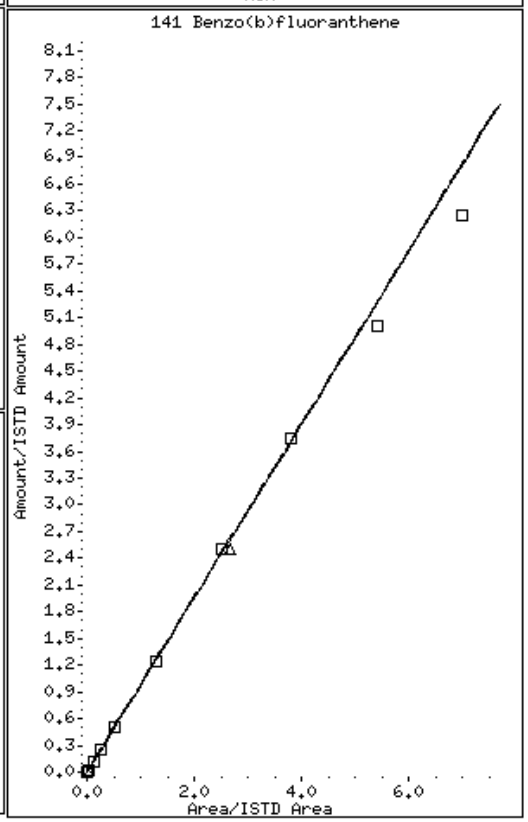




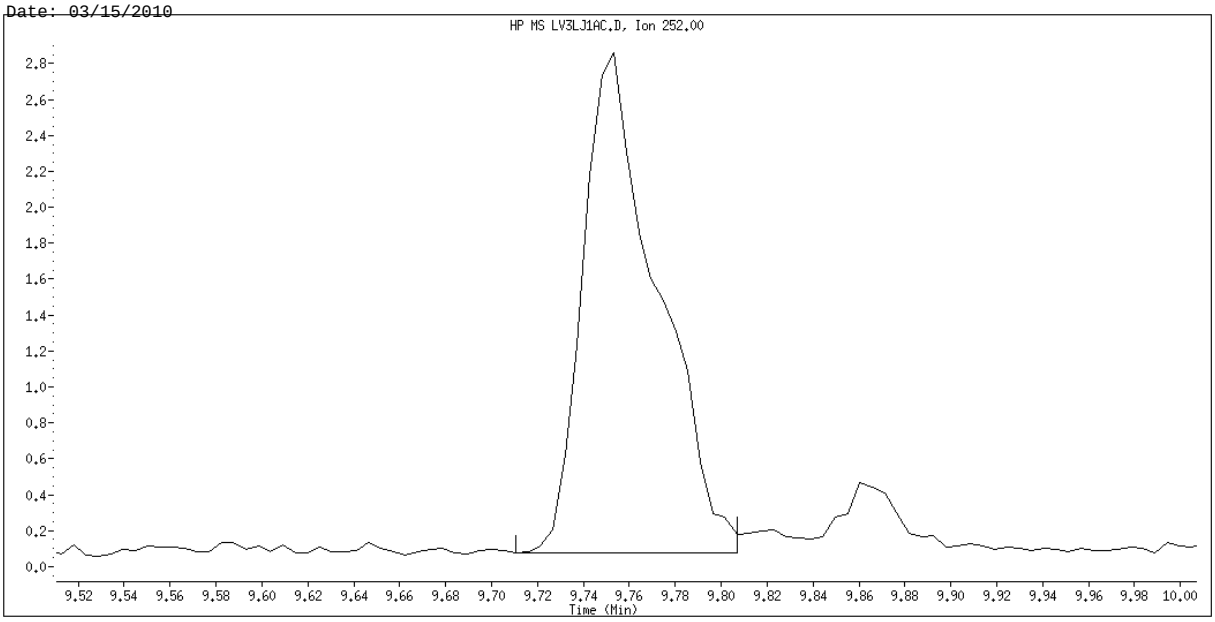




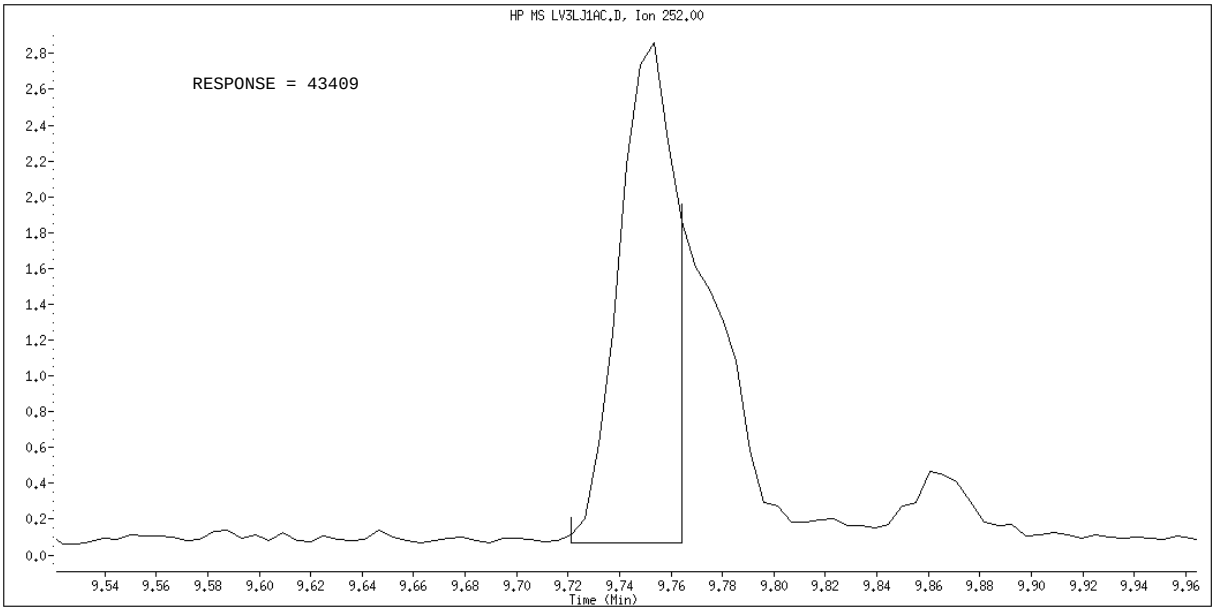




Data File Name: LV3LJ1AC.D
Inj. Date and Time: 12-MAR-2010 11:28
Instrument ID: a4hp7.i
Client ID: F16SS-026M-5431-SO
Compound Name: Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/15/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Science Applications International Corp

Client Sample ID: F16SS-027M-5432-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-020 **Work Order #...:** LV3LM1DQ **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0060040
Dilution Factor: 4 **Initial Wgt/Vol:** 30.1 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 2.0 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	27	ug/kg	13
Acenaphthylene	ND	27	ug/kg	13
Anthracene	ND	27	ug/kg	13
Benzo(a)anthracene	**75**	**27**	**ug/kg**	**13**
Benzo(b)fluoranthene	**120**	**27**	**ug/kg**	**13**
Benzo(k)fluoranthene	**39**	**27**	**ug/kg**	**13**
Benzo(ghi)perylene	**54**	**27**	**ug/kg**	**13**
Benzo(a)pyrene	**70**	**27**	**ug/kg**	**13**
Chrysene	**86**	**27**	**ug/kg**	**4.5**
Dibenzo(a,h)anthracene	ND	27	ug/kg	13
Fluoranthene	**190**	**27**	**ug/kg**	**13**
Fluorene	ND	27	ug/kg	13
Indeno(1,2,3-cd)pyrene	**43**	**27**	**ug/kg**	**13**
Naphthalene	**88**	**27**	**ug/kg**	**13**
Phenanthrene	**140**	**27**	**ug/kg**	**13**
Pyrene	**140**	**27**	**ug/kg**	**13**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	61 DIL	(45 - 105)
2-Fluorophenol	64 DIL	(35 - 105)
Phenol-d5	62 DIL	(40 - 100)
2,4,6-Tribromophenol	61 DIL	(35 - 125)
Nitrobenzene-d5	60 DIL	(35 - 100)
Terphenyl-d14	73 DIL	(30 - 125)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\LV3LM1DQ.D
Lab Smp Id: lv3lm1dq Client Smp ID: F16SS-027M-5432-SO
Inj Date : 08-MAR-2010 13:09
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3lm1dq,00308a.b,8270c-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 13:55 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 11
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
*	1 1,4-Dichlorobenzene-d4	152	3.565	3.560	(1.000)	315199	2.00000		(Q)
*	2 Naphthalene-d8	136	4.453	4.453	(1.000)	1283246	2.00000		
*	3 Acenaphthene-d10	164	5.721	5.721	(1.000)	755617	2.00000		
*	4 Phenanthrene-d10	188	6.807	6.807	(1.000)	1235257	2.00000		
*	5 Chrysene-d12	240	8.775	8.769	(1.000)	1439374	2.00000		
*	6 Perylene-d12	264	10.256	10.235	(1.000)	1325724	2.00000		
	9 Pyridine	79	Compound Not Detected.						
	10 N-Nitrosodimethylamine	74	Compound Not Detected.						
	11 Ethyl methacrylate	69	Compound Not Detected.						
	12 3-Chloropropionitrile	54	Compound Not Detected.						
	13 Malononitrile	66	Compound Not Detected.						
	209 Benzaldehyde	77	Compound Not Detected.						
	21 Aniline	93	Compound Not Detected.						
	22 Phenol	94	Compound Not Detected.						
	23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	24 2-Chlorophenol	128	Compound Not Detected.						
	26 1,3-Dichlorobenzene	146	Compound Not Detected.						
	27 1,4-Dichlorobenzene	146	Compound Not Detected.						

28	1,2-Dichlorobenzene	146	Compound Not Detected.
29	Benzyl Alcohol	108	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
30	2-Methylphenol	108	Compound Not Detected.					
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	4.469	4.469	(1.004)	96404	0.16247	86.365
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	4.961	4.961	(1.114)	88290	0.27333	145.29
63	1-Methylnaphthalene	142	5.031	5.031	(1.130)	64710	0.17422	92.607
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					

212	Atrazine	200	Compound Not Detected.
111	Pentachlorophenol	266	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
115	Phenanthrene	178	6.823	6.823	(1.002)	168140	0.25057	133.19
116	Anthracene	178	Compound Not Detected.					
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
123	Fluoranthene	202	7.694	7.689	(1.130)	236105	0.34336	182.52
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.866	7.866	(0.896)	186169	0.25088	133.36
131	Butylbenzylphthalate	149	Compound Not Detected.					
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	8.764	8.759	(0.999)	99131	0.13915	73.966
137	Chrysene	228	8.796	8.791	(1.002)	106146	0.15790	83.932
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.695	8.684	(0.991)	87839	0.17764	94.428
140	Di-n-octylphthalate	149	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	9.791	9.780	(0.955)	145592	0.21366	113.57
142	Benzo(k)fluoranthene	252	9.818	9.807	(0.957)	51474	0.07099	37.737(QM)
146	Benzo(a)pyrene	252	10.187	10.176	(0.993)	84078	0.12853	68.322
149	Indeno(1,2,3-cd)pyrene	276	11.861	11.861	(1.156)	58608	0.08017	42.616
150	Dibenz(a,h)anthracene	278	Compound Not Detected.					
151	Benzo(g,h,i)perylene	276	12.358	12.353	(1.205)	60749	0.09959	52.938
198	1,4-Dioxane	88	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.940	3.940	(0.885)	144473	0.74515	396.09
$ 155	2-Fluorobiphenyl	172	5.207	5.207	(0.910)	332560	0.76290	405.52
$ 156	Terphenyl-d14	244	7.946	7.940	(0.906)	415239	0.91833	488.15
$ 157	Phenol-d5	99	3.271	3.260	(0.918)	275543	1.16685	620.25
$ 158	2-Fluorophenol	112	2.758	2.688	(0.774)	215684	1.20671	641.44(H)
$ 159	2,4,6-Tribromophenol	330	6.288	6.288	(1.099)	58286	1.14301	607.58
$ 186	2-Chlorophenol-d4	132	3.416	3.405	(0.958)	234099	1.25407	666.62
$ 187	1,2-Dichlorobenzene-d4	152	3.672	3.667	(1.030)	84633	0.67195	357.18(Q)
M 195	Cresols, total	100	Compound Not Detected.					
101	Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

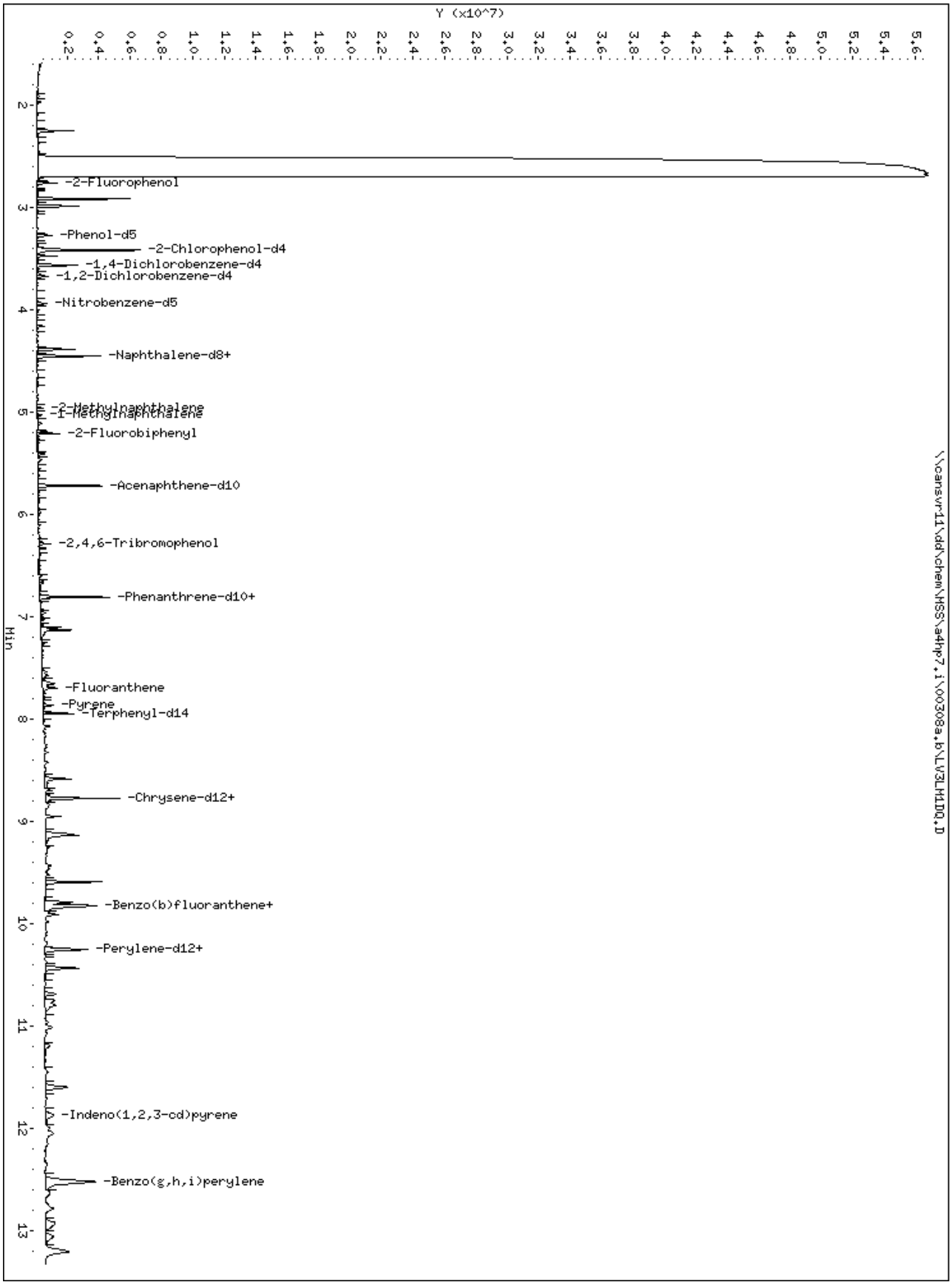
Instrument ID: a4hp7.i
Lab File ID: LV3LM1DQ.D
Lab Smp Id: lv3lm1dq
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 10:16
Client Smp ID: F16SS-027M-5432-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	388613	194307	777226	315199	-18.89
2 Naphthalene-d8	1628032	814016	3256064	1283246	-21.18
3 Acenaphthene-d10	875709	437855	1751418	755617	-13.71
4 Phenanthrene-d10	1398875	699438	2797750	1235257	-11.70
5 Chrysene-d12	1597704	798852	3195408	1439374	-9.91
6 Perylene-d12	1473841	736921	2947682	1325724	-10.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.56	3.06	4.06	3.57	0.15
2 Naphthalene-d8	4.45	3.95	4.95	4.45	0.00
3 Acenaphthene-d10	5.72	5.22	6.22	5.72	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.77	8.27	9.27	8.78	0.06
6 Perylene-d12	10.24	9.74	10.74	10.26	0.21

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^7)
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8+
-2-Methylnaphthalene
-1-Methylnaphthalene
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-Fluoranthene
-Pyrene
-Terphenyl-d14
-Chrysene-d12+
-Benzo(b)fluoranthene+
-Perylene-d12+
-Indeno(1,2,3-cd)pyrene
-Benzo(g,h,i)perylene
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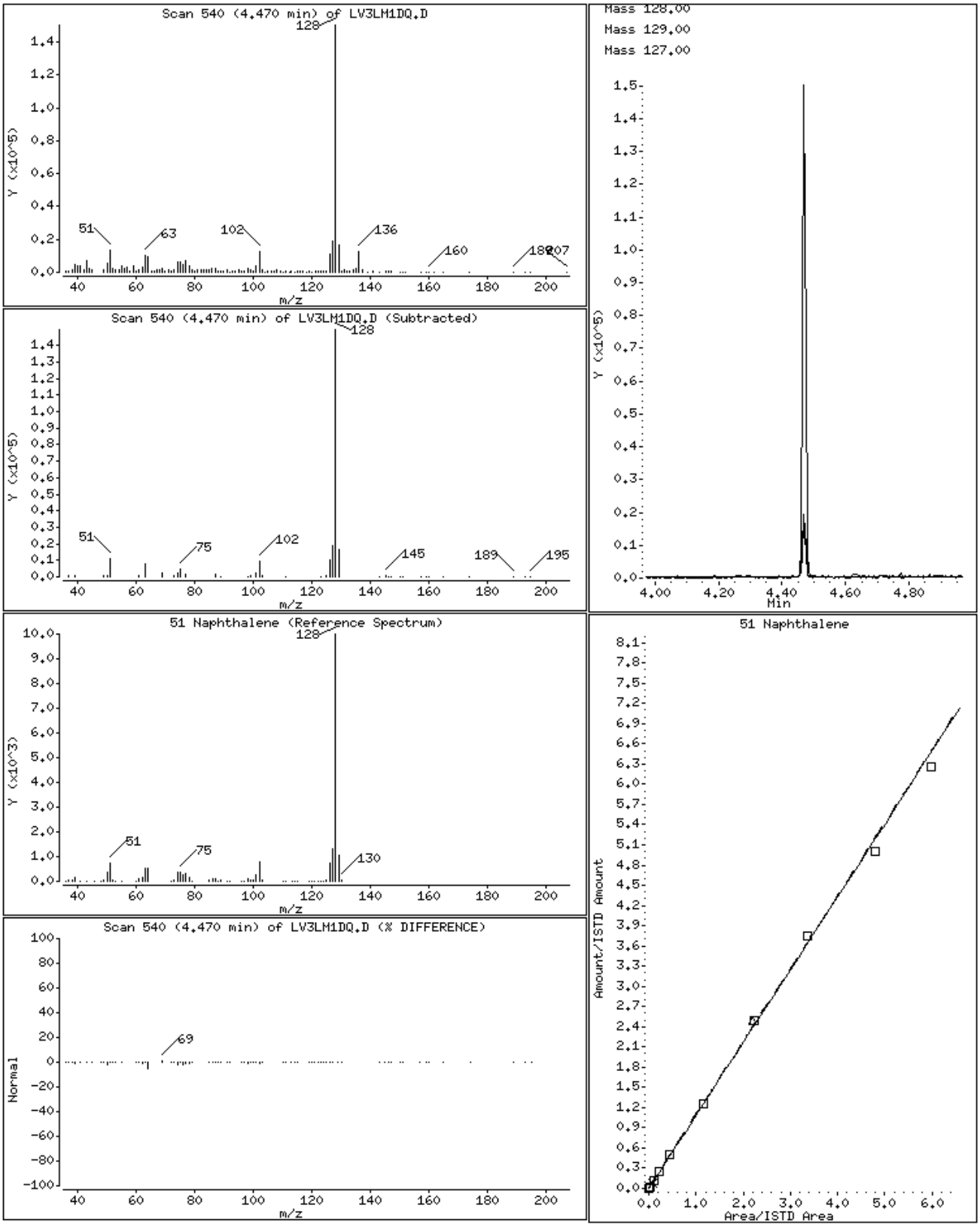
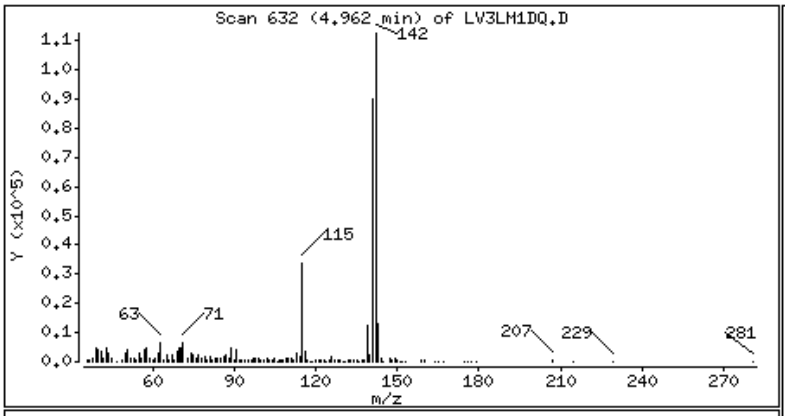
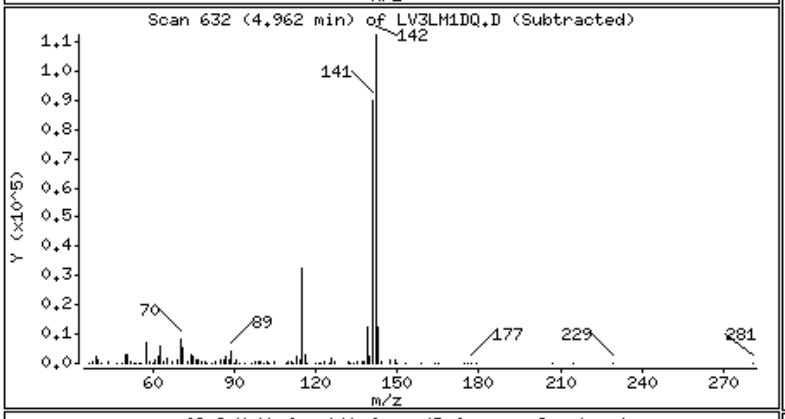
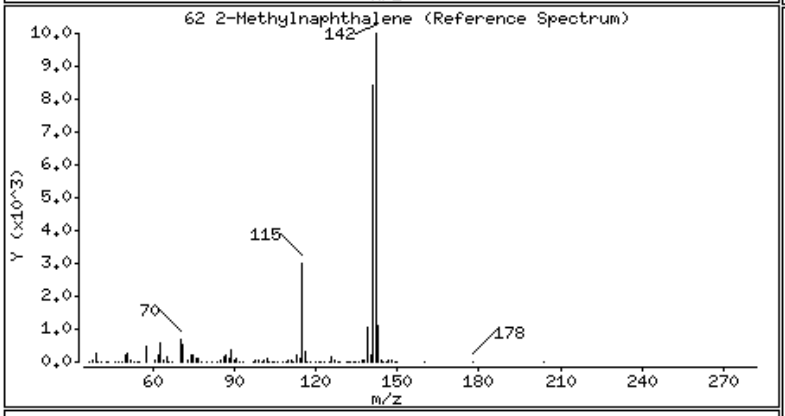
51 Naphthalene

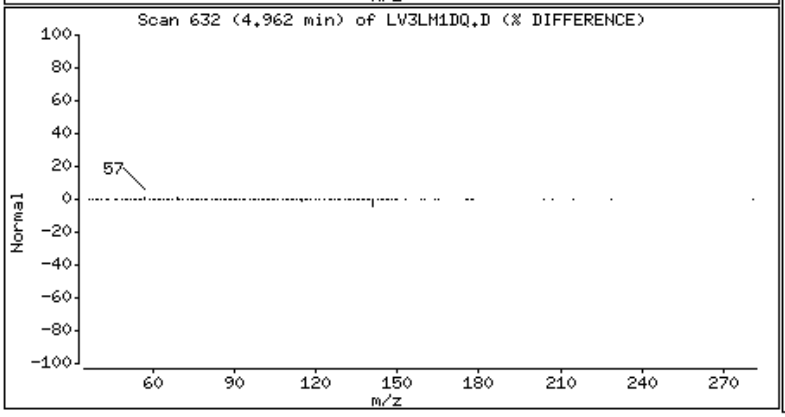


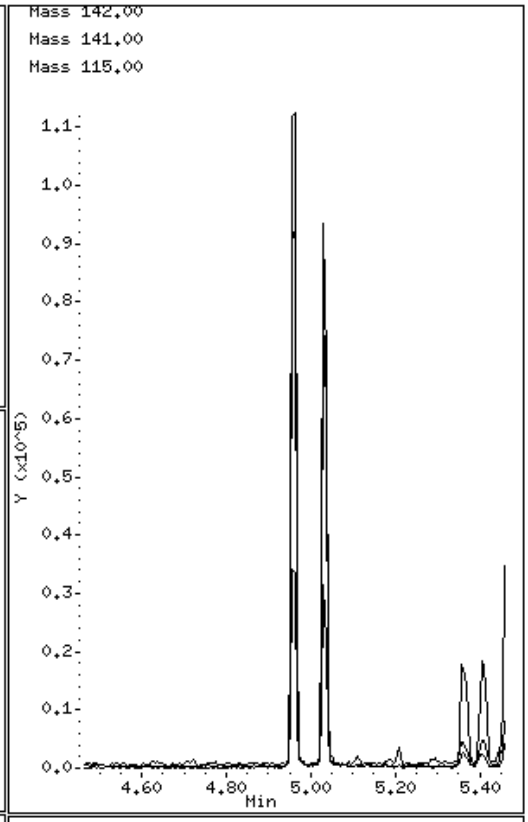
62 2-Methylnaphthalene

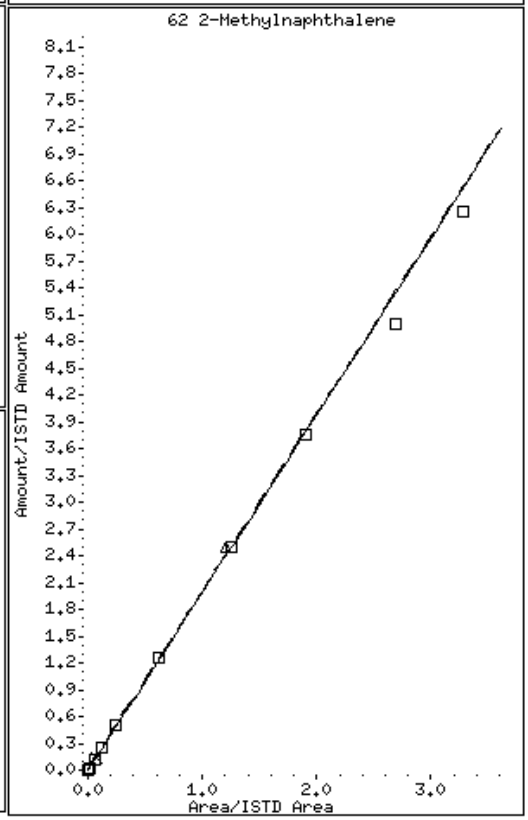




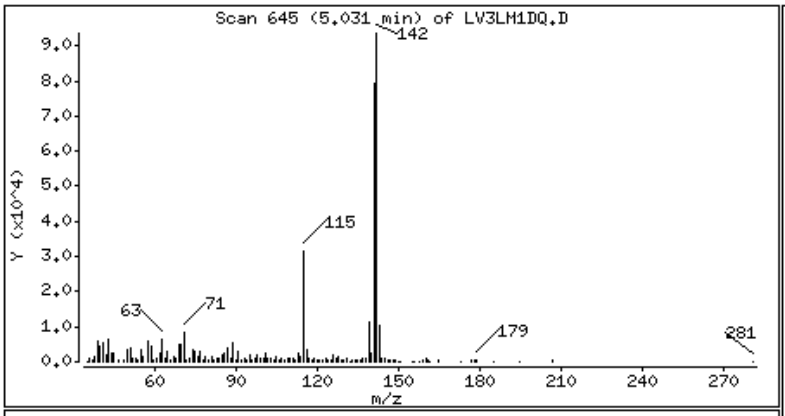


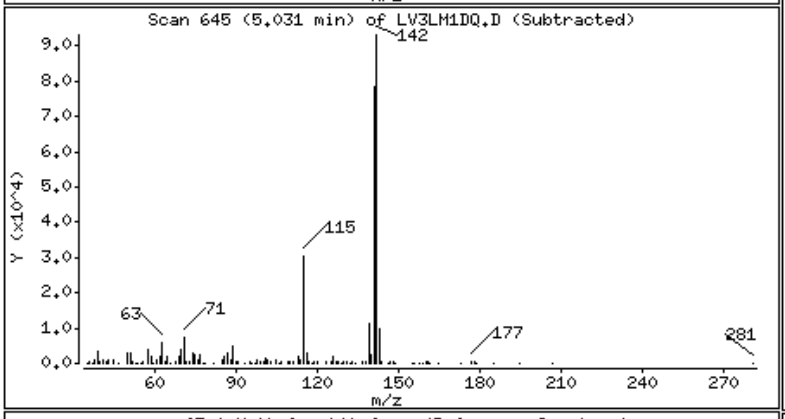


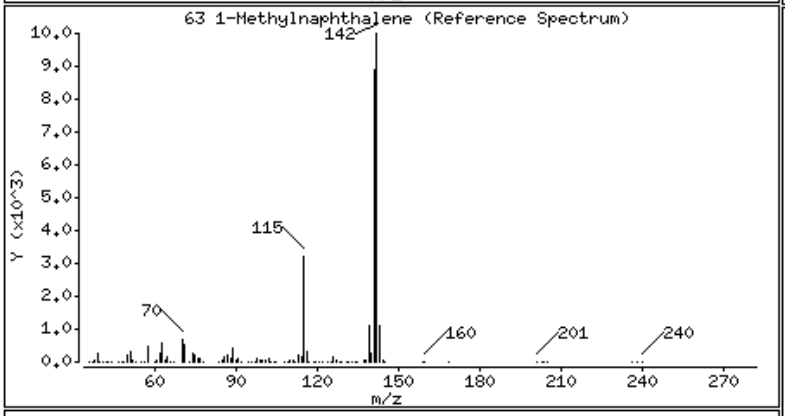


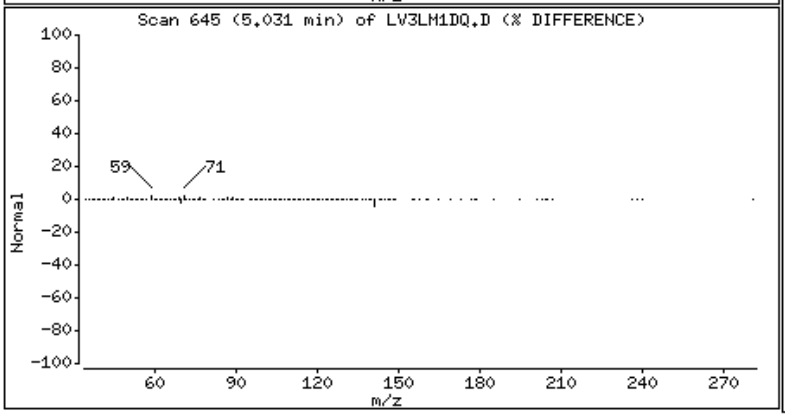


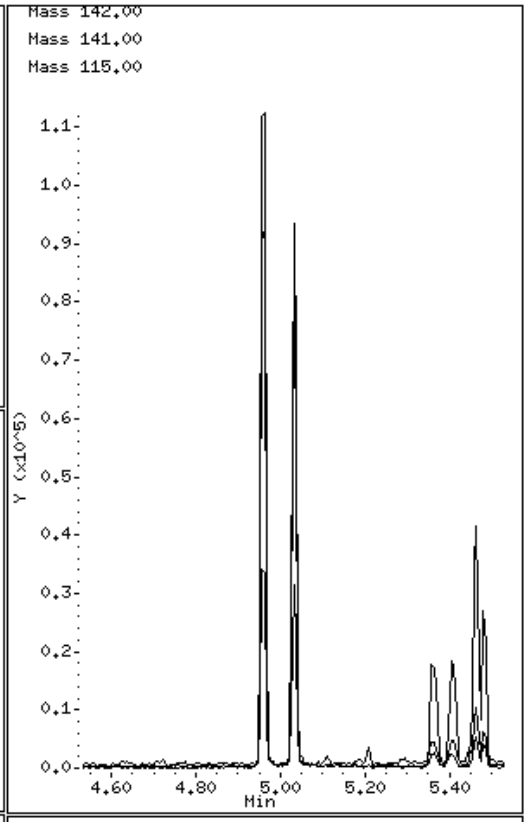
63 1-Methylnaphthalene

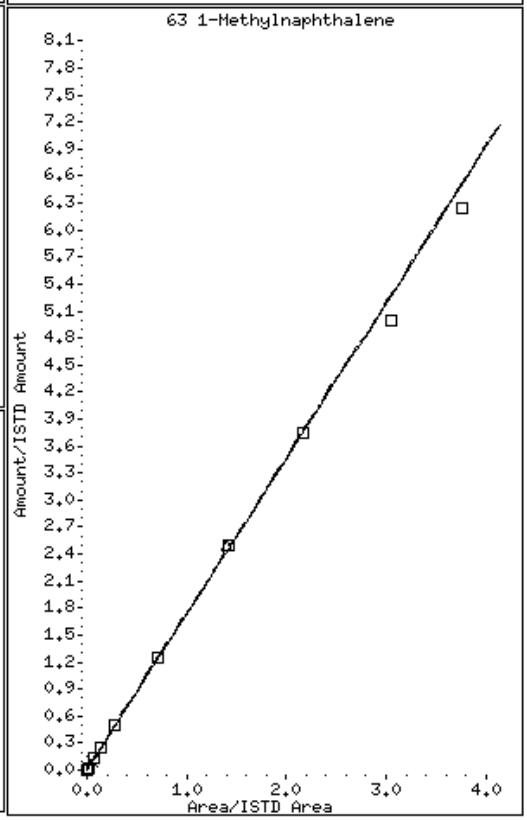




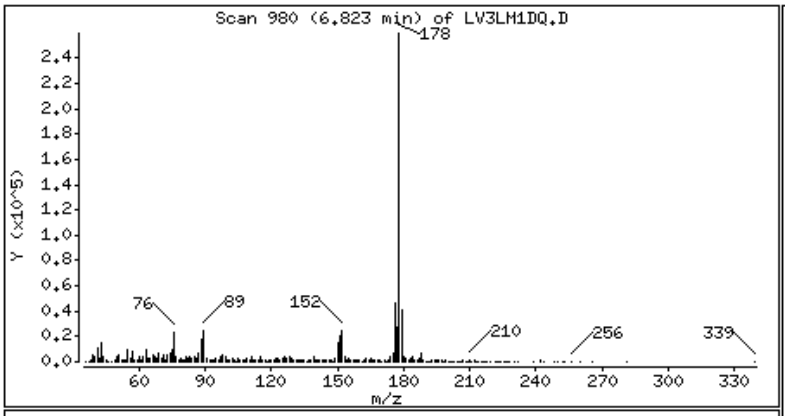


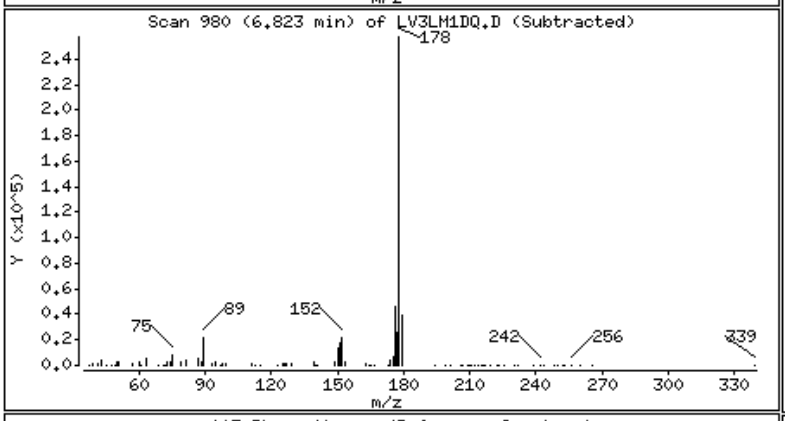


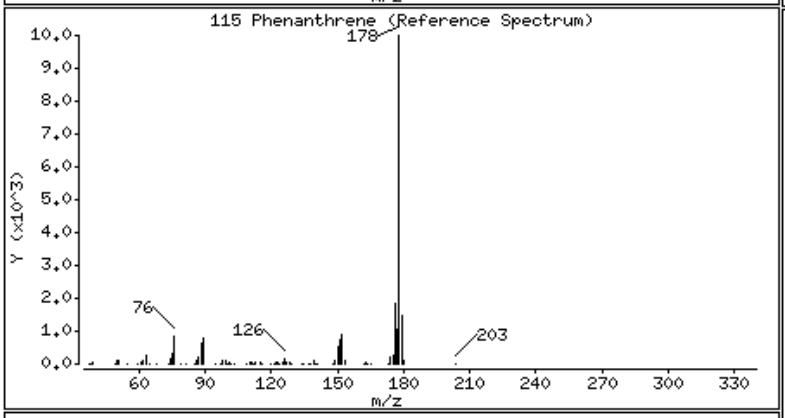


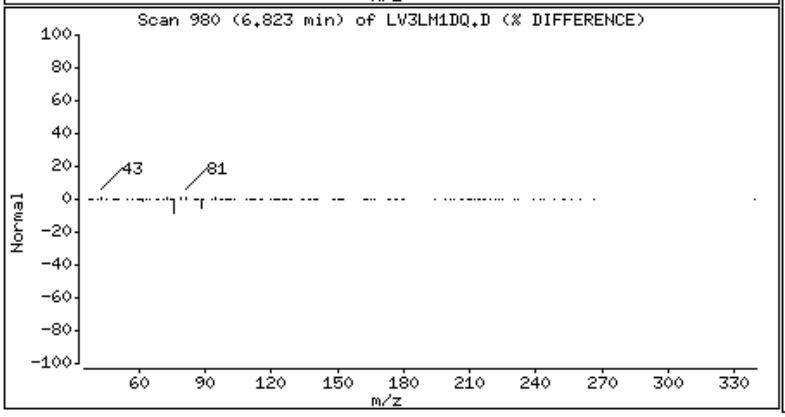


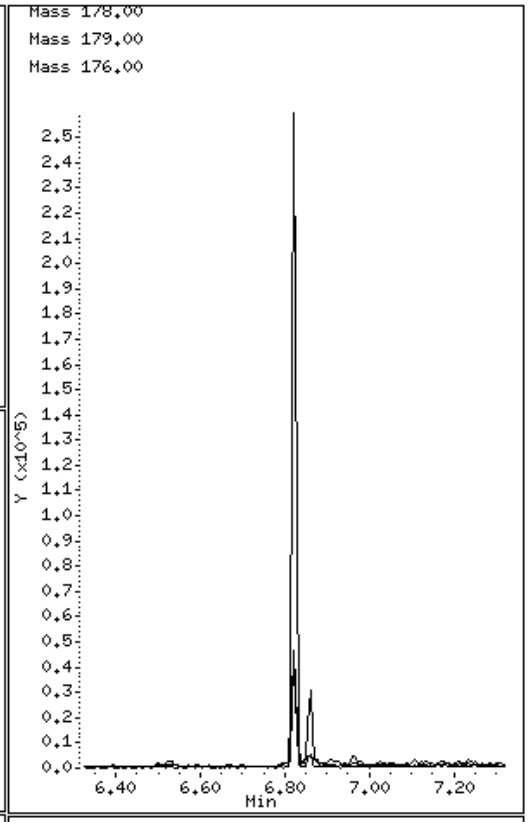
115 Phenanthrene

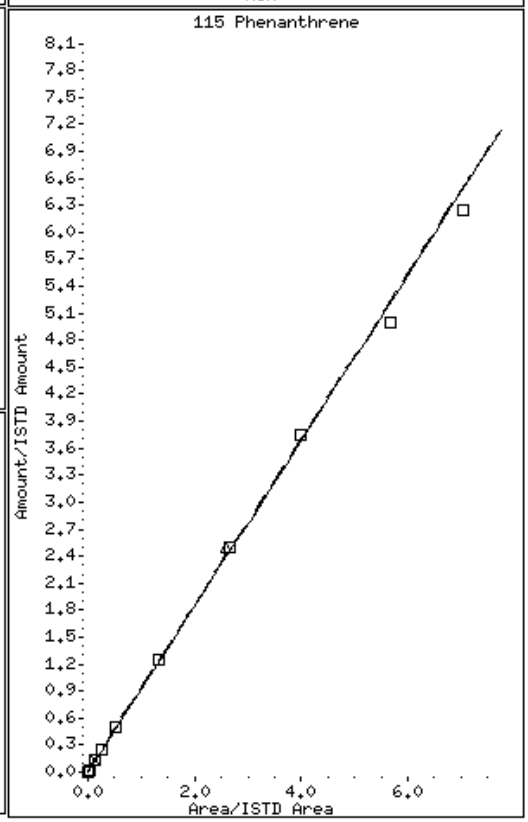




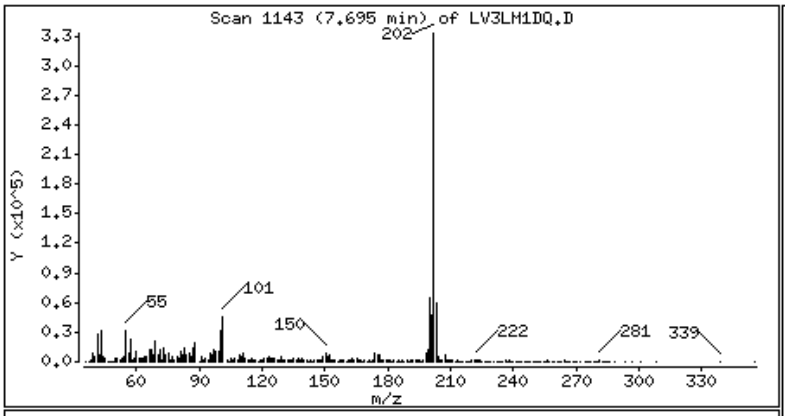


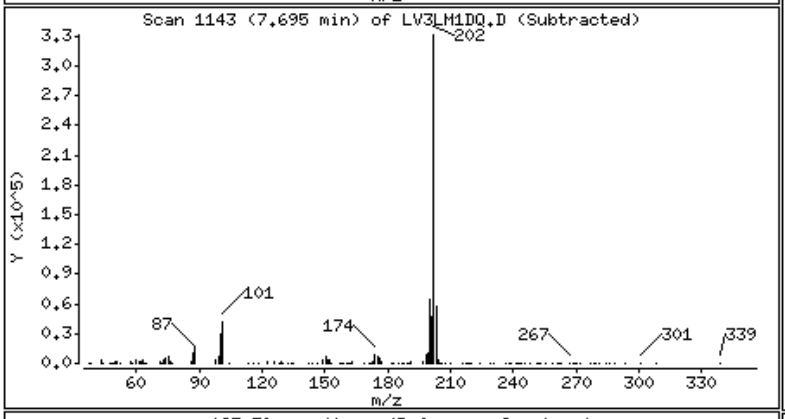


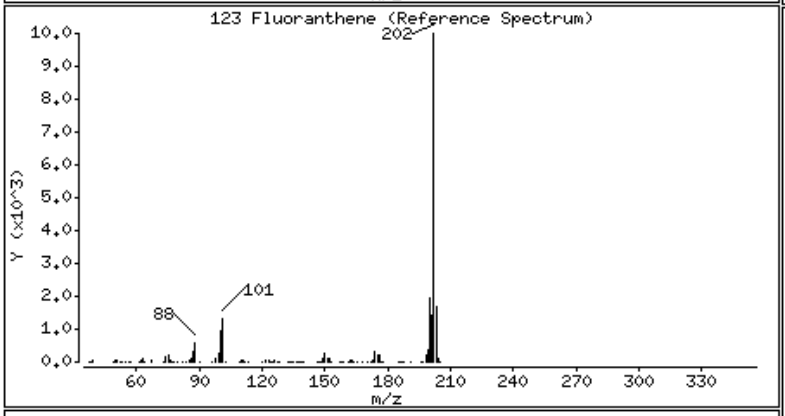


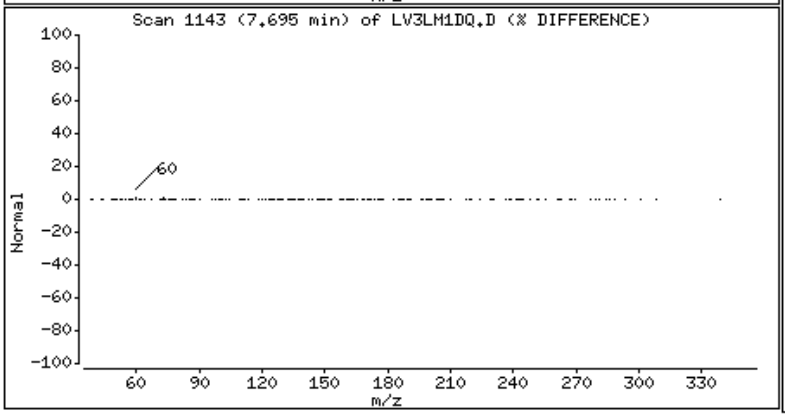


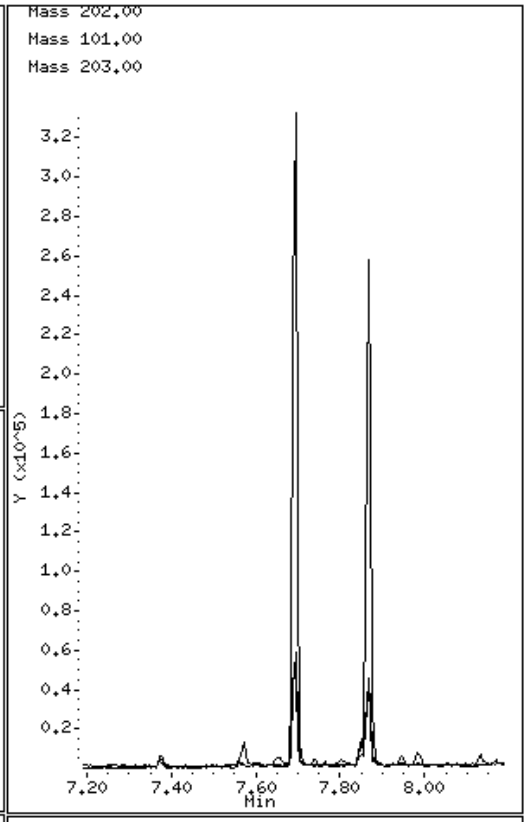
123 Fluoranthene

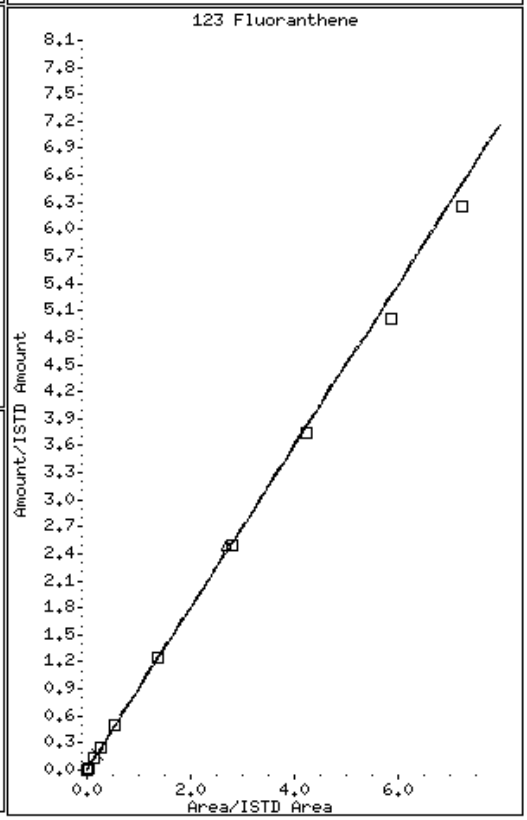




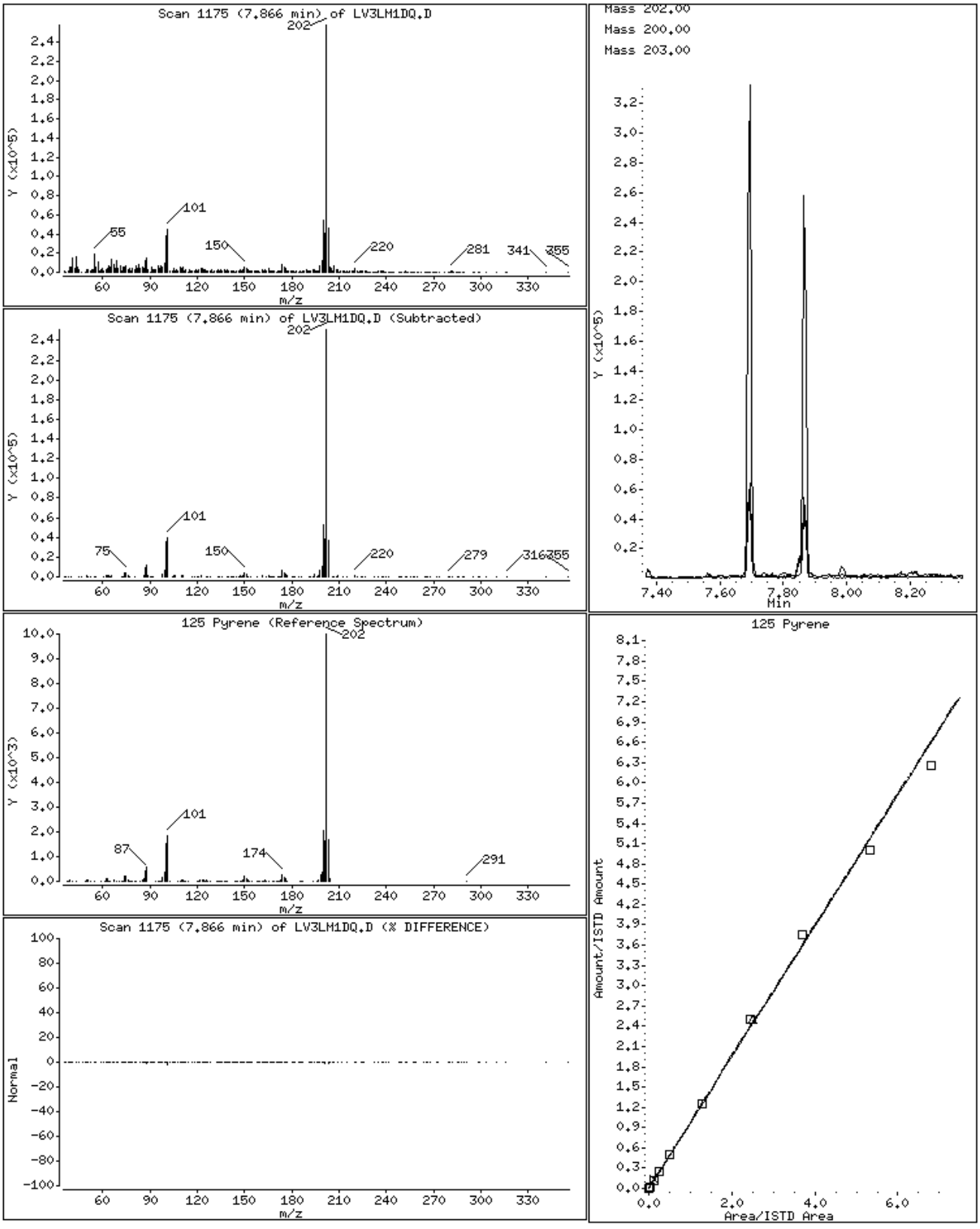




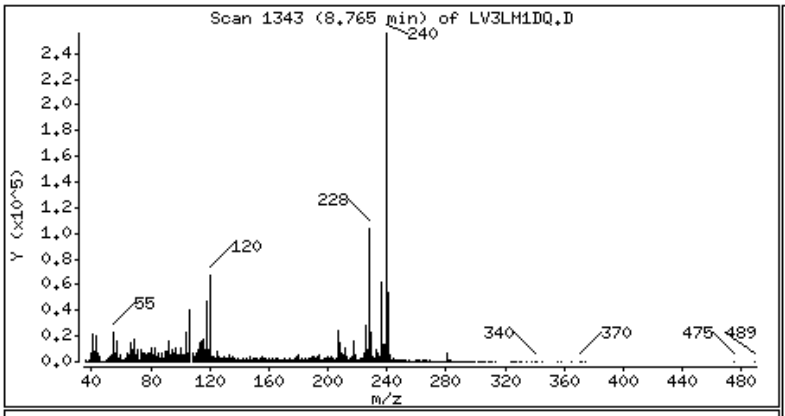


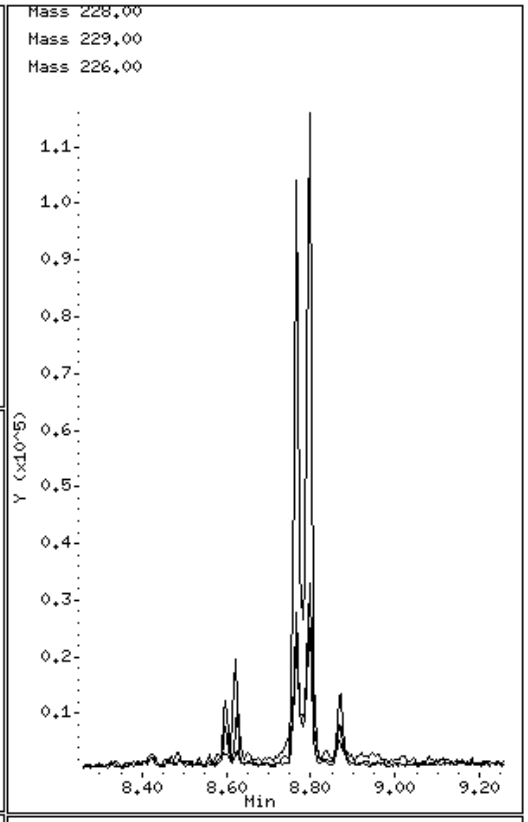


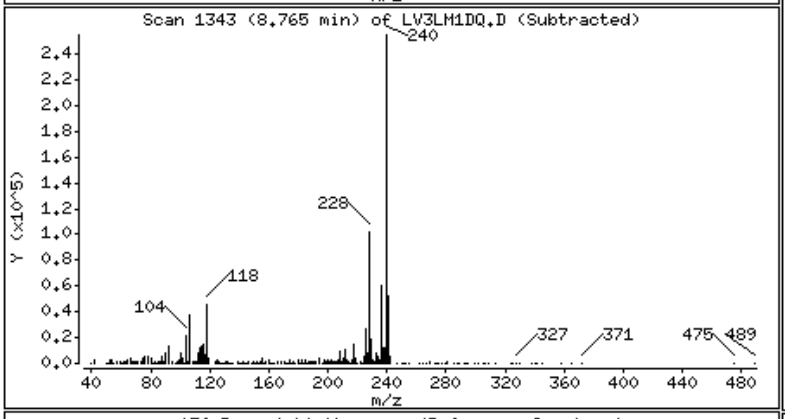
125 Pyrene

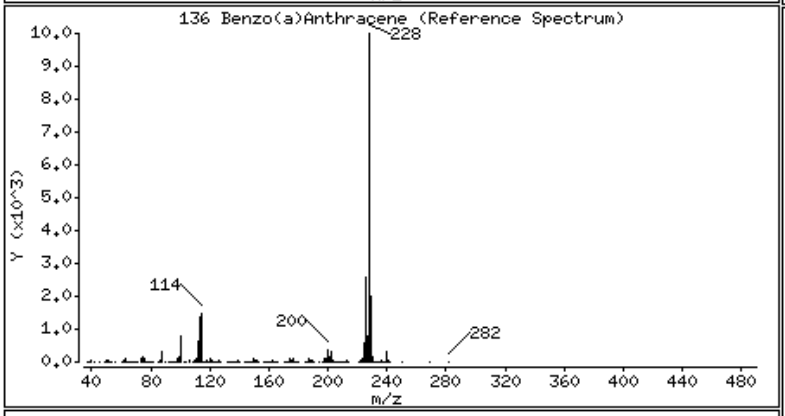

Scan 1175 (7.866 min) of LV3LM1DQ.D
Y (x10^5)
m/z
202
101
55
150
220
281
341
255
Scan 1175 (7.866 min) of LV3LM1DQ.D (Subtracted)
Y (x10^5)
m/z
202
101
75
150
220
279
316
255
Mass 202.00
Mass 200.00
Mass 203.00
Y (x10^5)
Min
125 Pyrene (Reference Spectrum)
Y (x10^3)
m/z
202
101
87
174
291
125 Pyrene
Amount/ISTD Amount
Area/ISTD Area
Scan 1175 (7.866 min) of LV3LM1DQ.D (% DIFFERENCE)
Normal
m/z

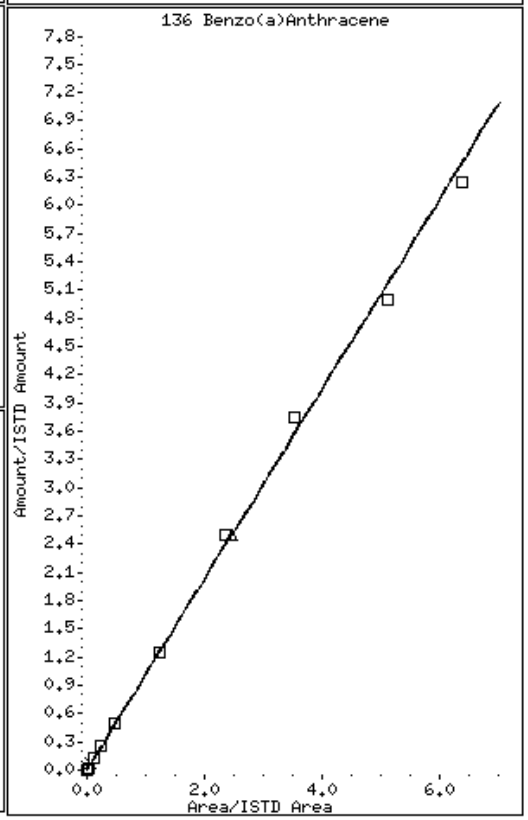
136 Benzo(a)Anthracene

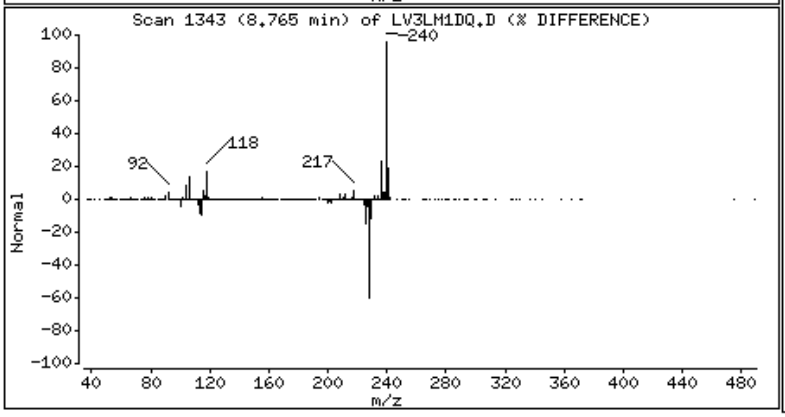




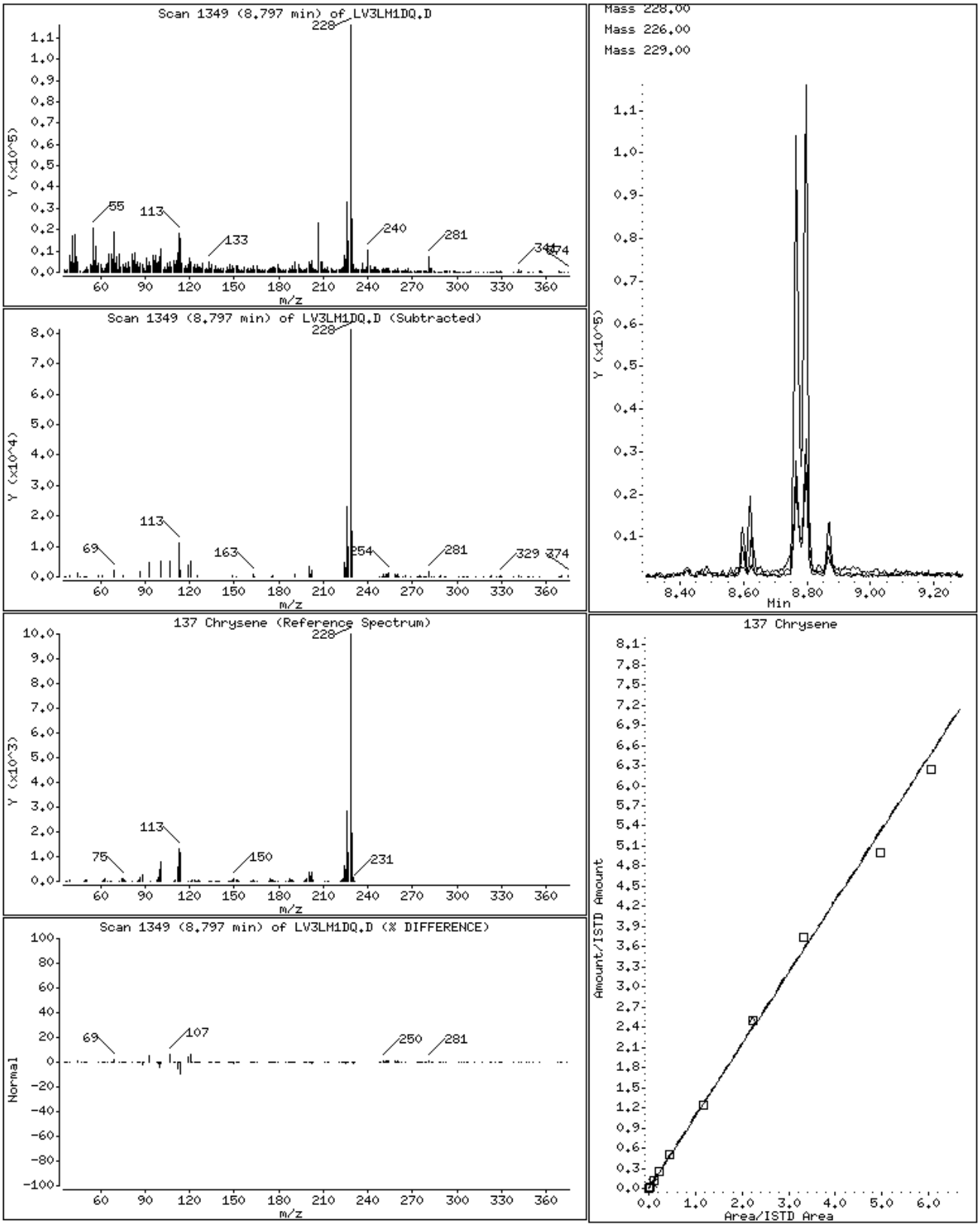




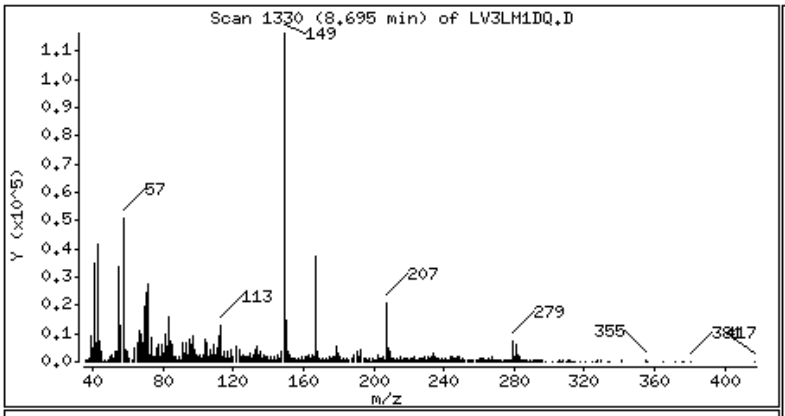


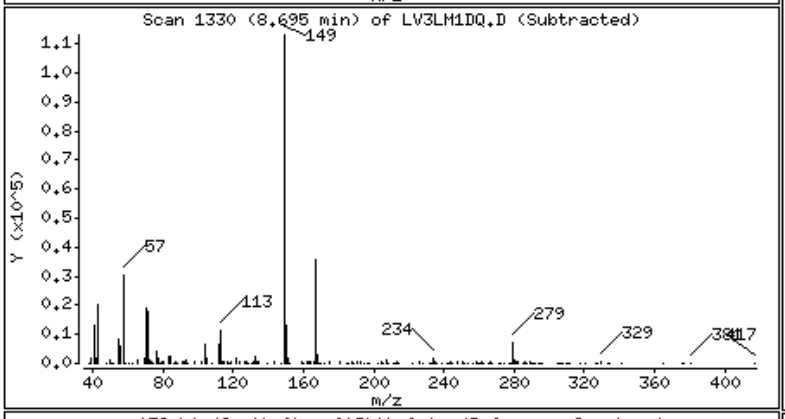


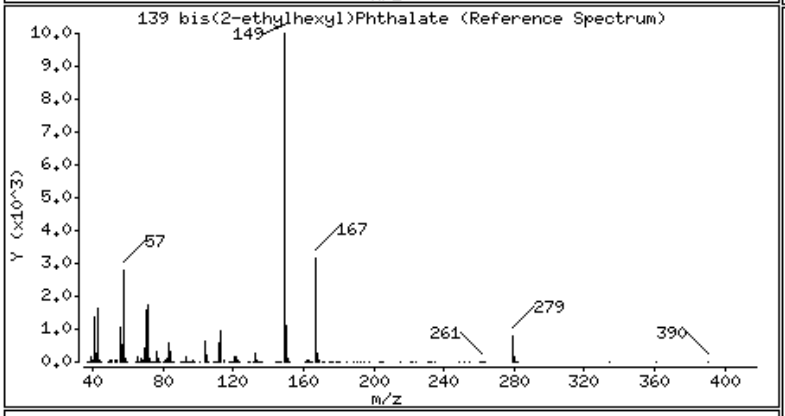
137 Chrysene

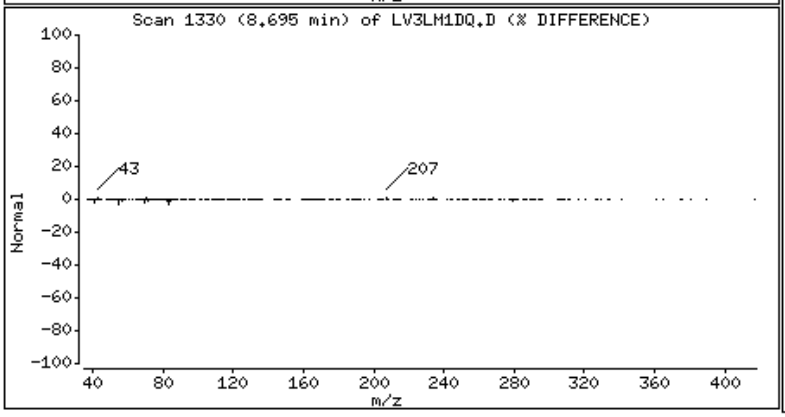


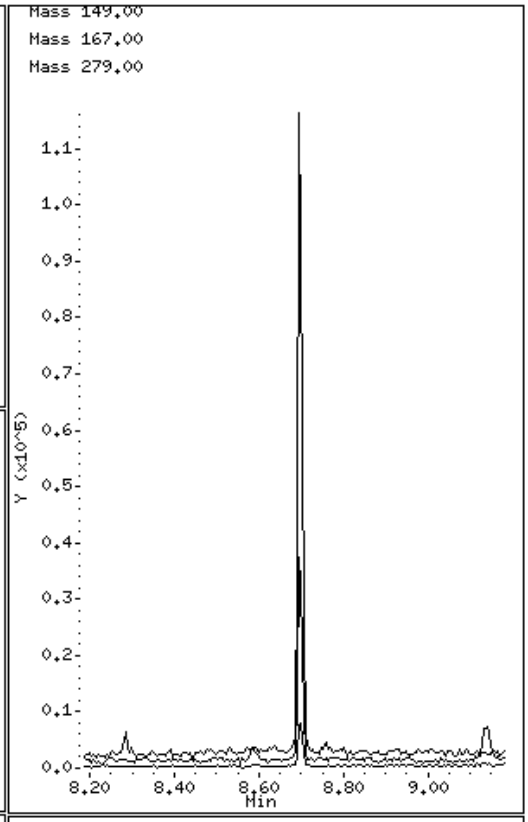
139 bis(2-ethylhexyl)Phthalate

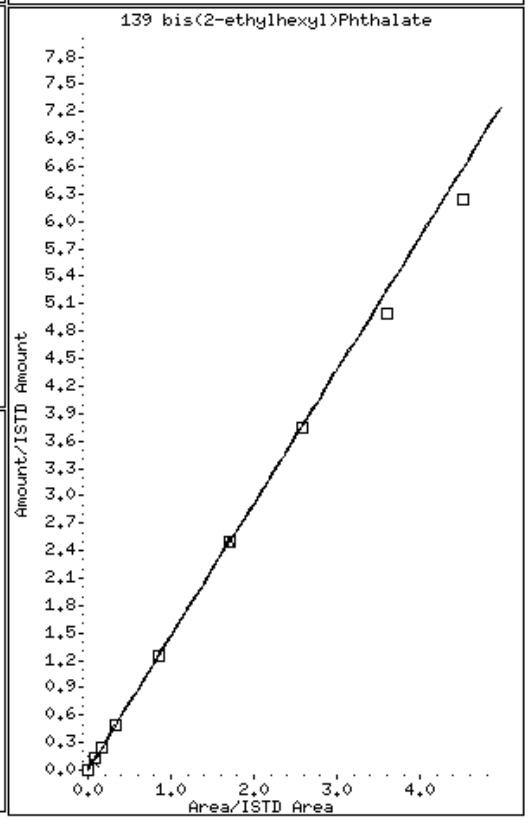




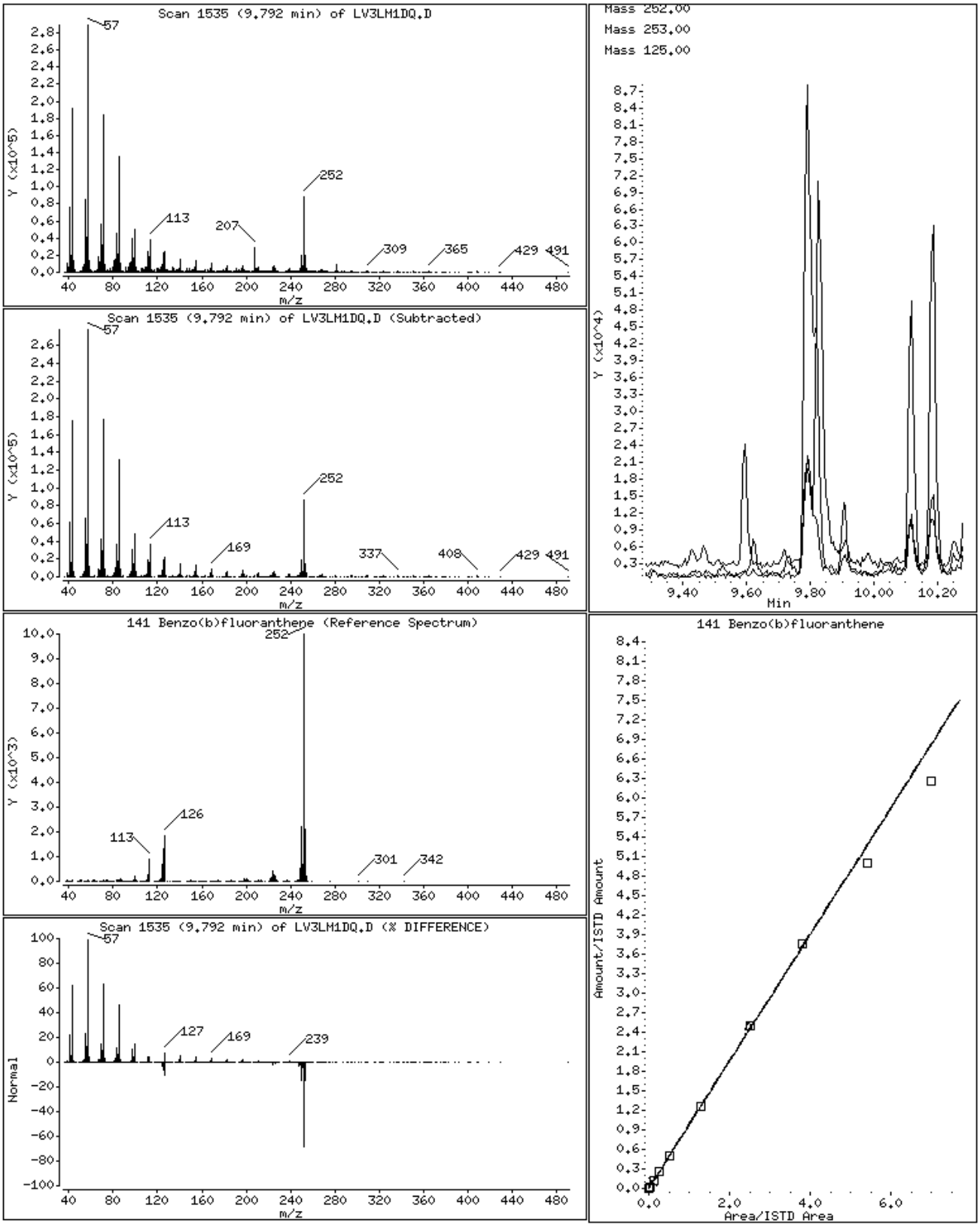




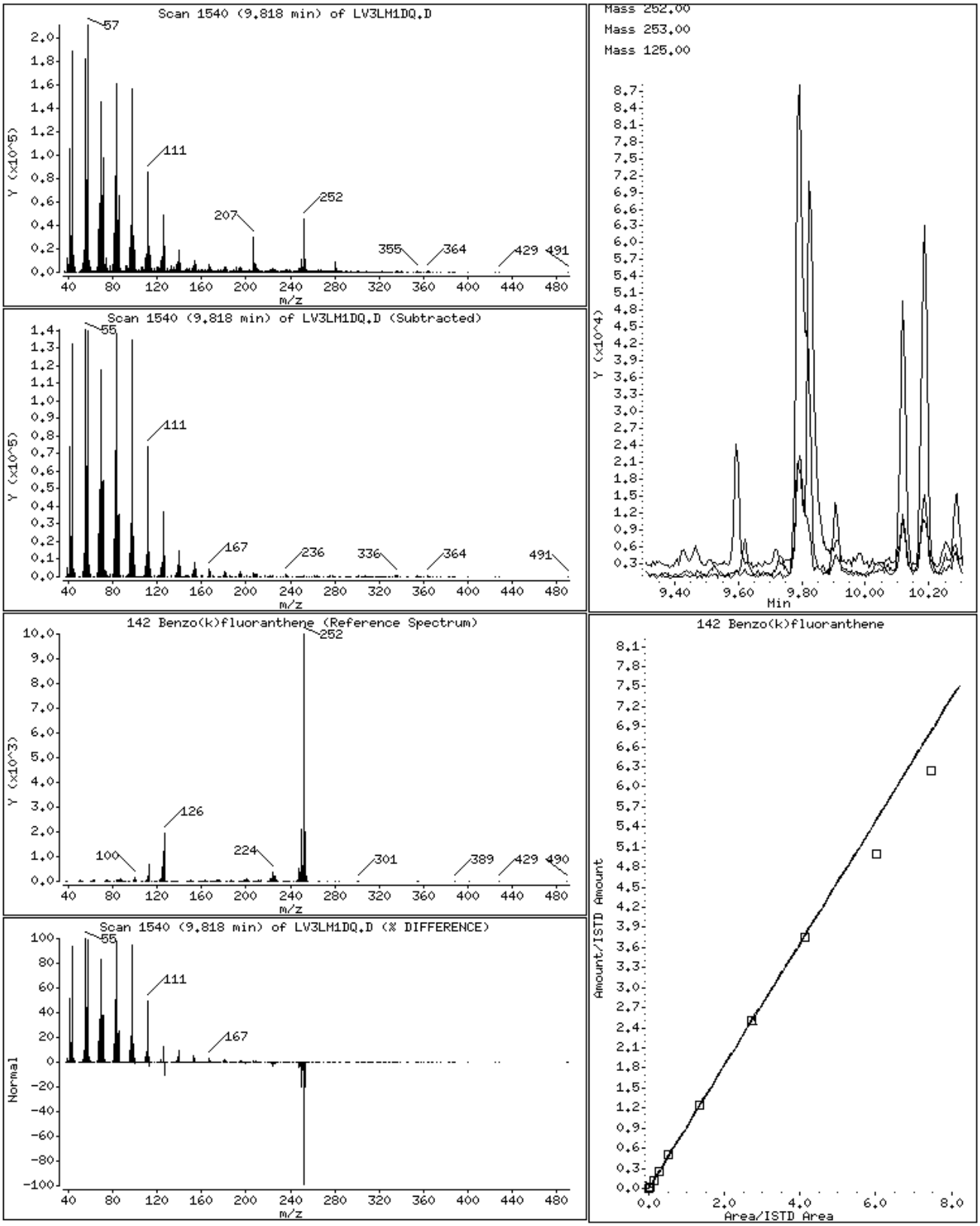




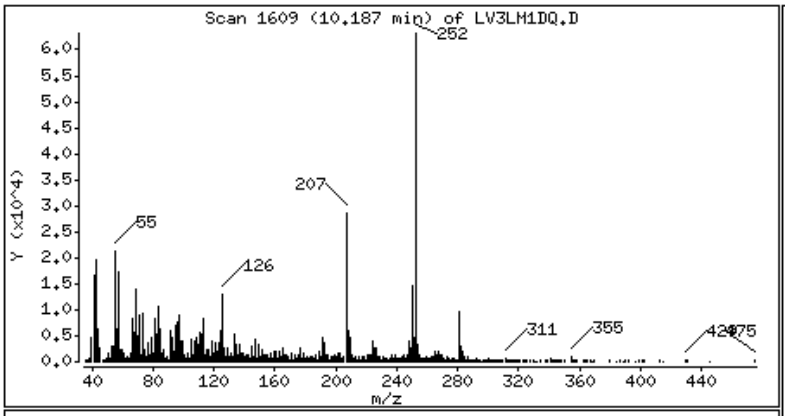
141 Benzo(b)fluoranthene

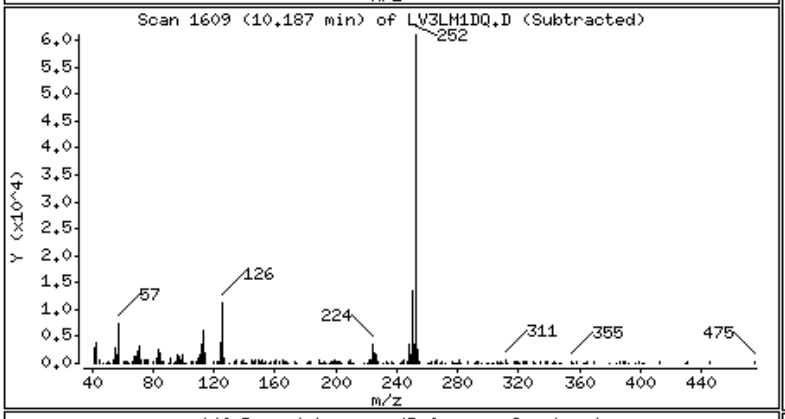


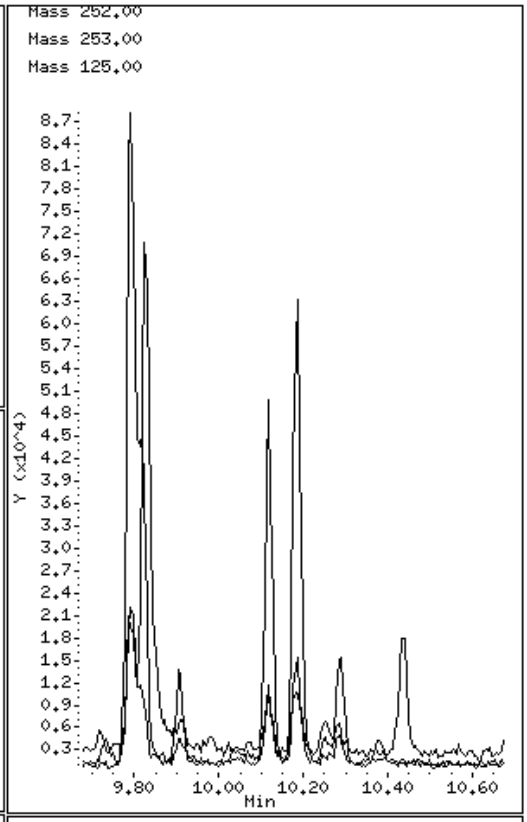
142 Benzo(k)fluoranthene

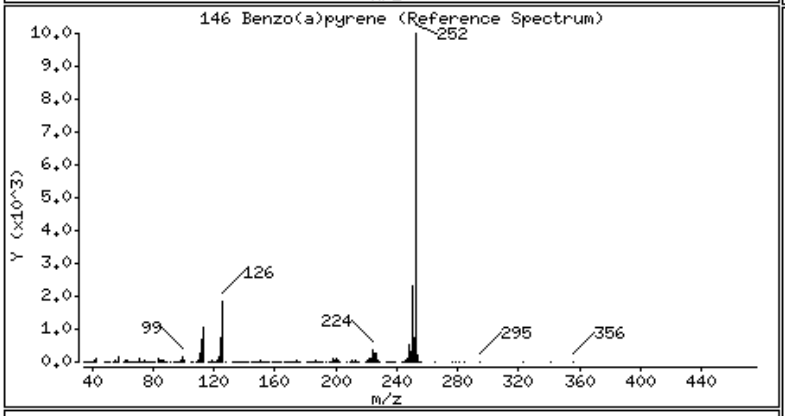


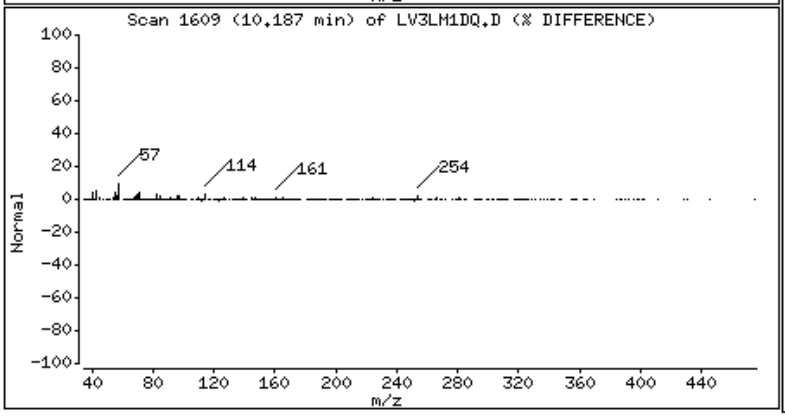
146 Benzo(a)pyrene

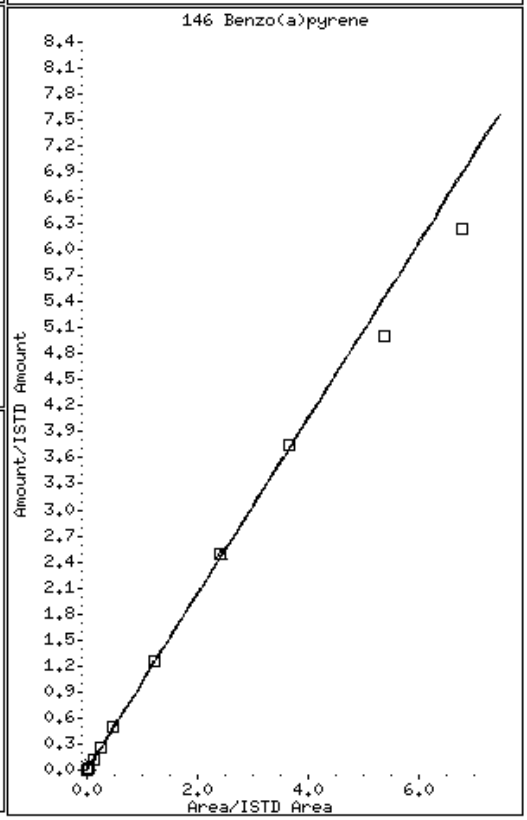




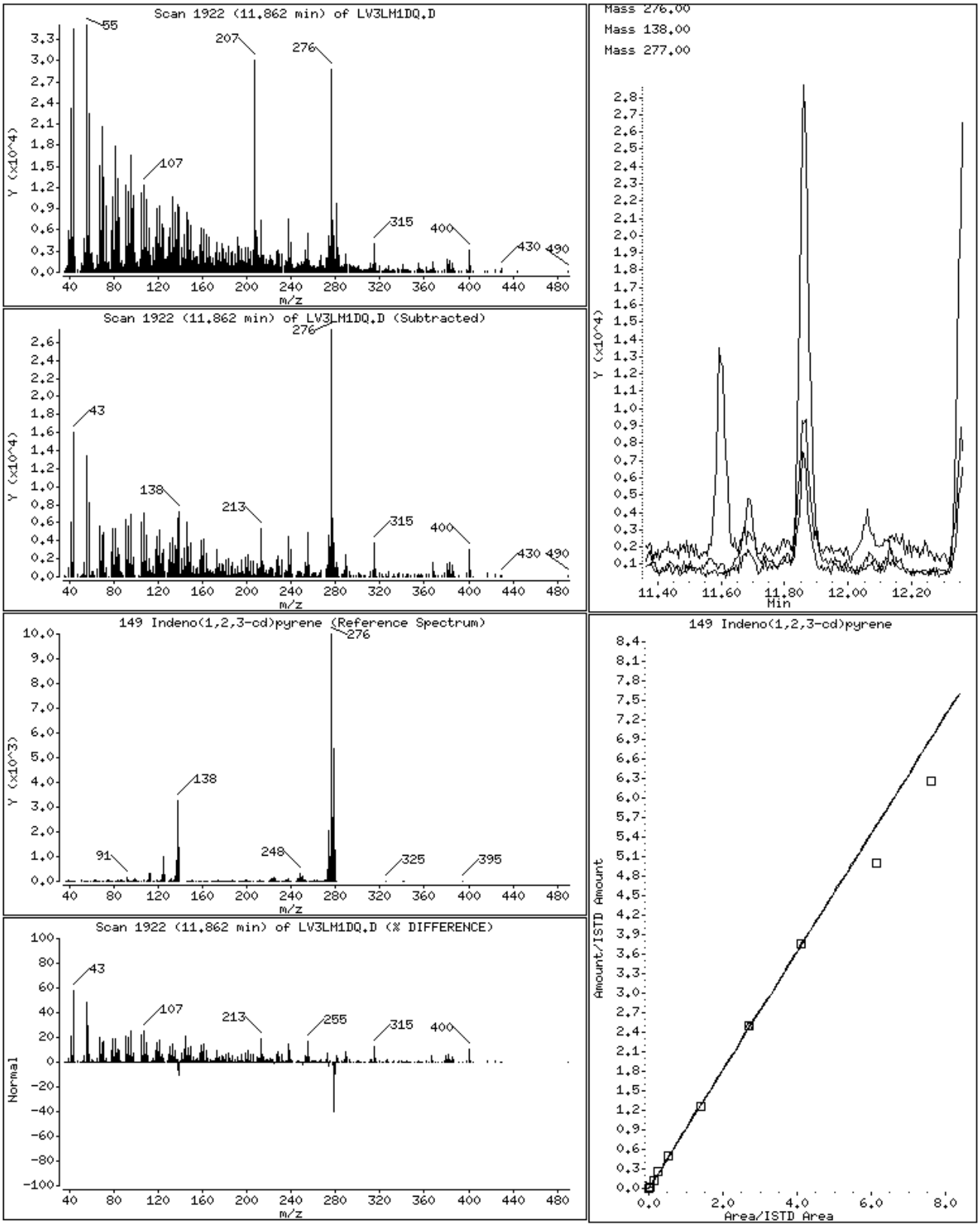




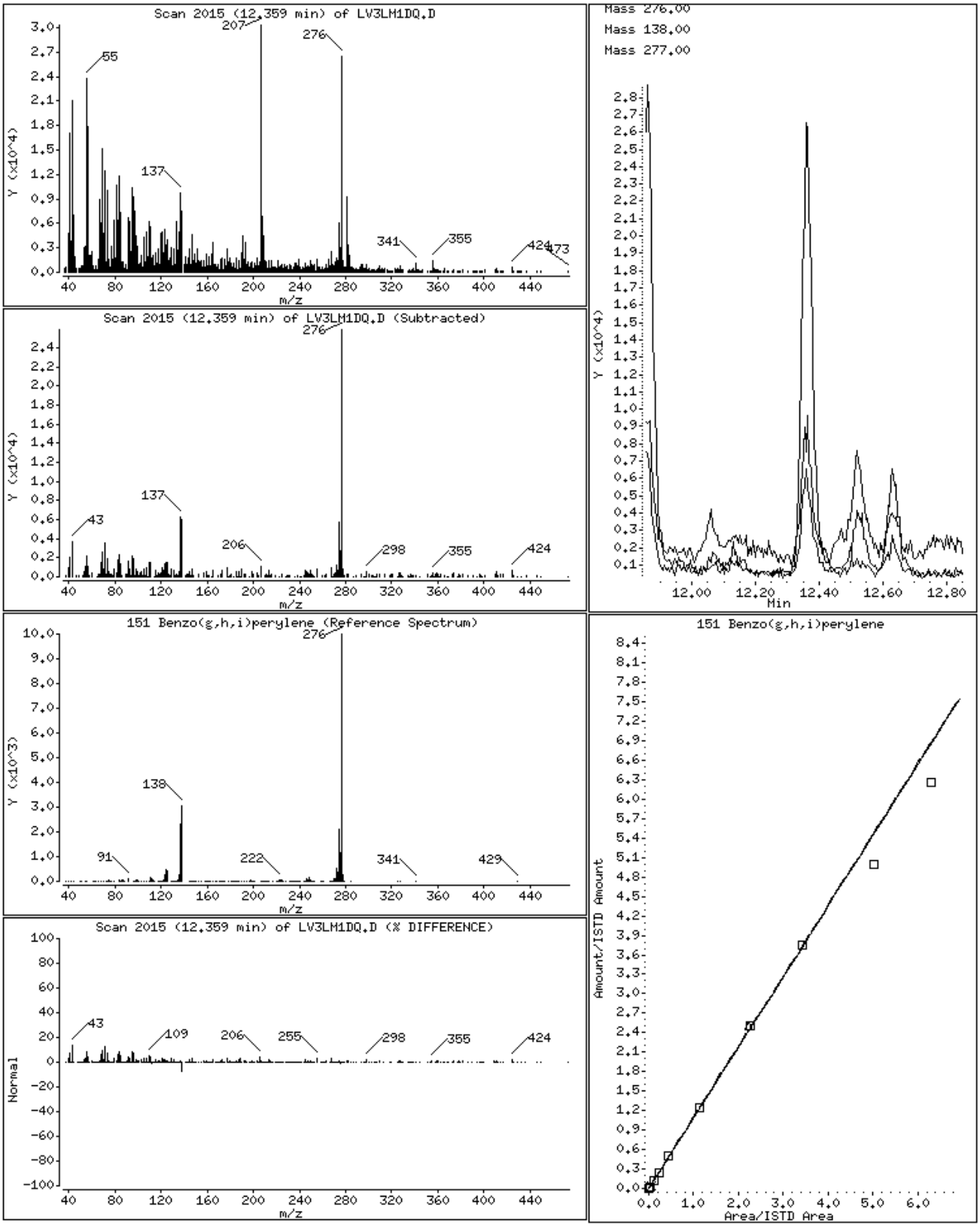




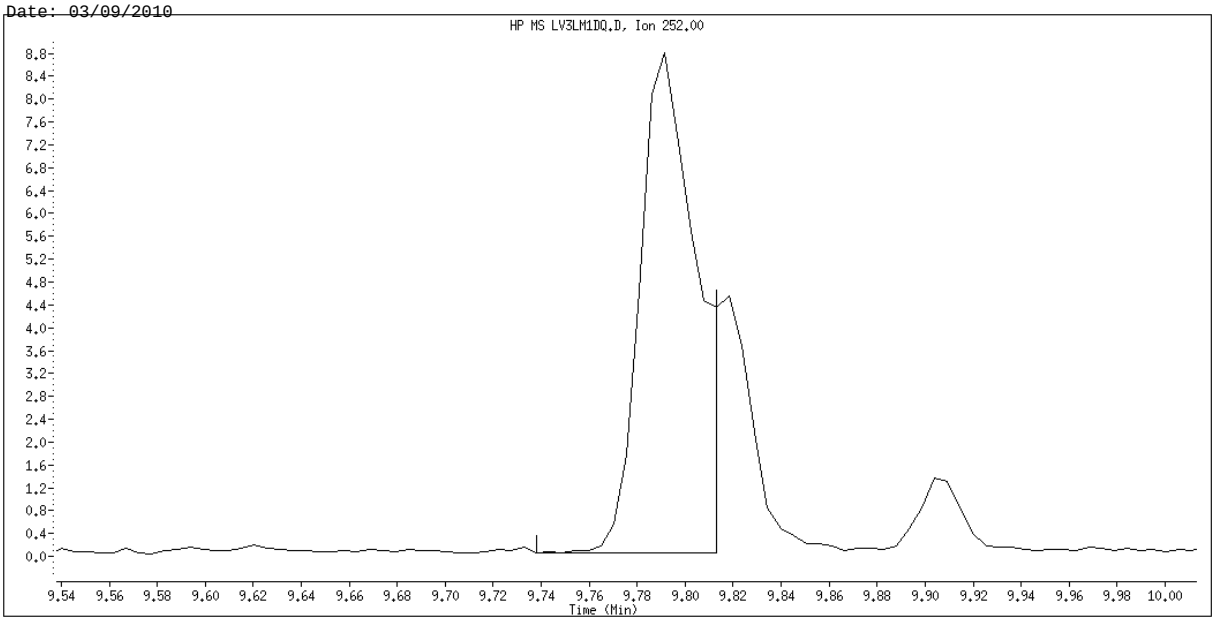
149 Indeno(1,2,3-cd)pyrene



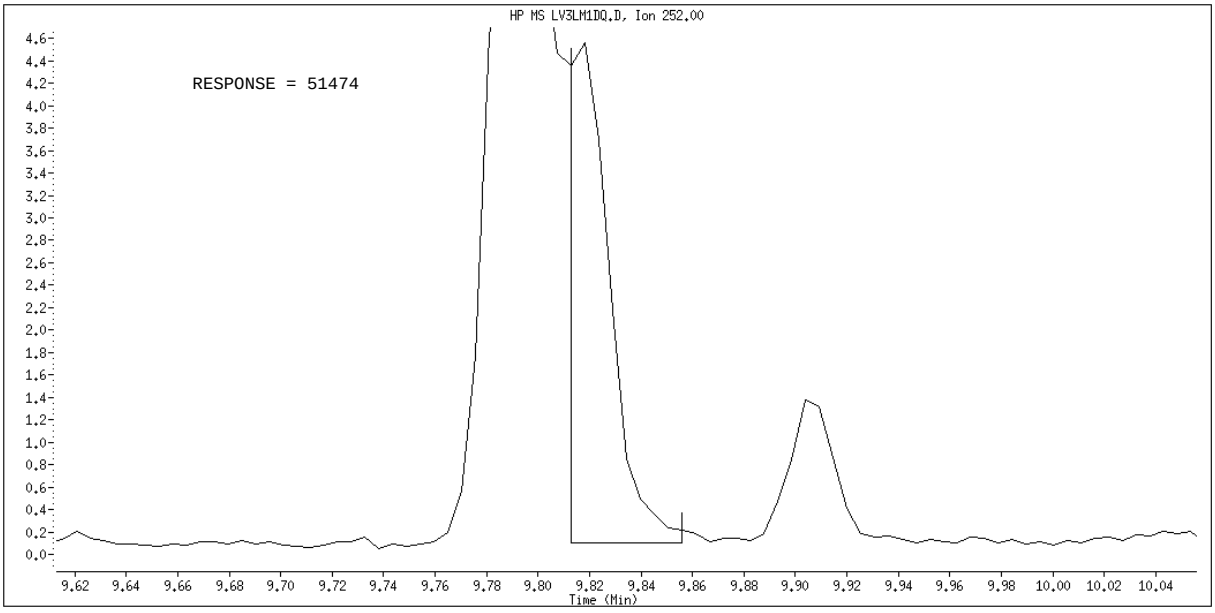
151 Benzo(g,h,i)perylene



Data File Name: LV3LM1DQ.D
Inj. Date and Time: 08-MAR-2010 13:09
Instrument ID: a4hp7.i
Client ID: F16SS-027M-5432-SO
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Science Applications International Corp

Client Sample ID: F16SS-028M-5433-SO

GC/MS Semivolatiles

Lot-Sample #...: A0B250463-021 **Work Order #...:** LV3LR1AC **Matrix.....:** SO
Date Sampled...: 02/24/10 10:00 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0060040
Dilution Factor: 1 **Initial Wgt/Vol:** 30.03 g **Final Wgt/Vol..:** 2 mL
% Moisture.....: 1.8 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	6.8	ug/kg	3.4
Acenaphthylene	ND	6.8	ug/kg	3.4
Anthracene	ND	6.8	ug/kg	3.4
Benzo(a)anthracene	**7.0**	**6.8**	**ug/kg**	**3.4**
Benzo(b)fluoranthene	**9.3**	**6.8**	**ug/kg**	**3.4**
Benzo(k)fluoranthene	ND	6.8	ug/kg	3.4
Benzo(ghi)perylene	ND	6.8	ug/kg	3.4
Benzo(a)pyrene	**7.1**	**6.8**	**ug/kg**	**3.4**
Chrysene	**7.9**	**6.8**	**ug/kg**	**1.1**
Dibenzo(a,h)anthracene	ND	6.8	ug/kg	3.4
Fluoranthene	**12**	**6.8**	**ug/kg**	**3.4**
Fluorene	ND	6.8	ug/kg	3.4
Indeno(1,2,3-cd)pyrene	ND	6.8	ug/kg	3.4
Naphthalene	ND	6.8	ug/kg	3.4
Phenanthrene	ND	6.8	ug/kg	3.4
Pyrene	**9.6**	**6.8**	**ug/kg**	**3.4**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	9.1 *	(45 - 105)
2-Fluorophenol	11 *	(35 - 105)
Phenol-d5	9.6 *	(40 - 100)
2,4,6-Tribromophenol	9.5 *	(35 - 125)
Nitrobenzene-d5	9.3 *	(35 - 100)
Terphenyl-d14	12 *	(30 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\LV3LR1AC.D
Lab Smp Id: lv3lr1ac Client Smp ID: F16SS-028M-5433-SO
Inj Date : 08-MAR-2010 15:24
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3lr1ac,00308a.b,8270c-625,1-pah.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 13:55 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1	1,4-Dichlorobenzene-d4	152	3.576	3.560	(1.000)	255927	2.00000		(Q)
* 2	Naphthalene-d8	136	4.459	4.453	(1.000)	1077336	2.00000		
* 3	Acenaphthene-d10	164	5.721	5.721	(1.000)	651146	2.00000		
* 4	Phenanthrene-d10	188	6.812	6.807	(1.000)	1149855	2.00000		
* 5	Chrysene-d12	240	8.770	8.769	(1.000)	1403800	2.00000		
* 6	Perylene-d12	264	10.251	10.235	(1.000)	1337939	2.00000		
51	Naphthalene	128	Compound Not Detected.						
62	2-Methylnaphthalene	142	Compound Not Detected.						
63	1-Methylnaphthalene	142	Compound Not Detected.						
70	2-Chloronaphthalene	162	Compound Not Detected.						
79	Acenaphthylene	152	Compound Not Detected.						
82	Acenaphthene	153	Compound Not Detected.						
86	Dibenzofuran	168	Compound Not Detected.						
94	Fluorene	166	Compound Not Detected.						
115	Phenanthrene	178	Compound Not Detected.						
116	Anthracene	178	Compound Not Detected.						
123	Fluoranthene	202	7.695	7.689	(1.130)	58901	0.09202	12.257	
125	Pyrene	202	7.871	7.866	(0.898)	51316	0.07091	9.4448	

136 Benzo(a)Anthracene	228	8.759	8.759 (0.999)	36013	0.05183	6.9040
137 Chrysene	228	8.791	8.791 (1.002)	38210	0.05828	7.7628

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
141 Benzo(b)fluoranthene	252	9.786	9.780	(0.955)	46948	0.06827	9.0934
142 Benzo(k)fluoranthene	252	Compound Not Detected.					
146 Benzo(a)pyrene	252	10.182	10.176	(0.993)	34341	0.05202	6.9288
149 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150 Dibenz(a,h)anthracene	278	Compound Not Detected.					
151 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 154 Nitrobenzene-d5	82	3.951	3.940	(0.886)	75925	0.46644	62.130
$ 155 2-Fluorobiphenyl	172	5.213	5.207	(0.911)	170945	0.45507	60.615
$ 156 Terphenyl-d14	244	7.946	7.940	(0.906)	273775	0.62082	82.693
$ 157 Phenol-d5	99	3.293	3.260	(0.921)	137848	0.71894	95.763
$ 158 2-Fluorophenol	112	2.827	2.688	(0.791)	116071	0.79980	106.53
$ 159 2,4,6-Tribromophenol	330	6.293	6.288	(1.100)	31391	0.71435	95.152
$ 186 2-Chlorophenol-d4	132	3.432	3.405	(0.960)	121962	0.80467	107.18
$ 187 1,2-Dichlorobenzene-d4	152	3.683	3.667	(1.030)	47008	0.45966	61.227

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

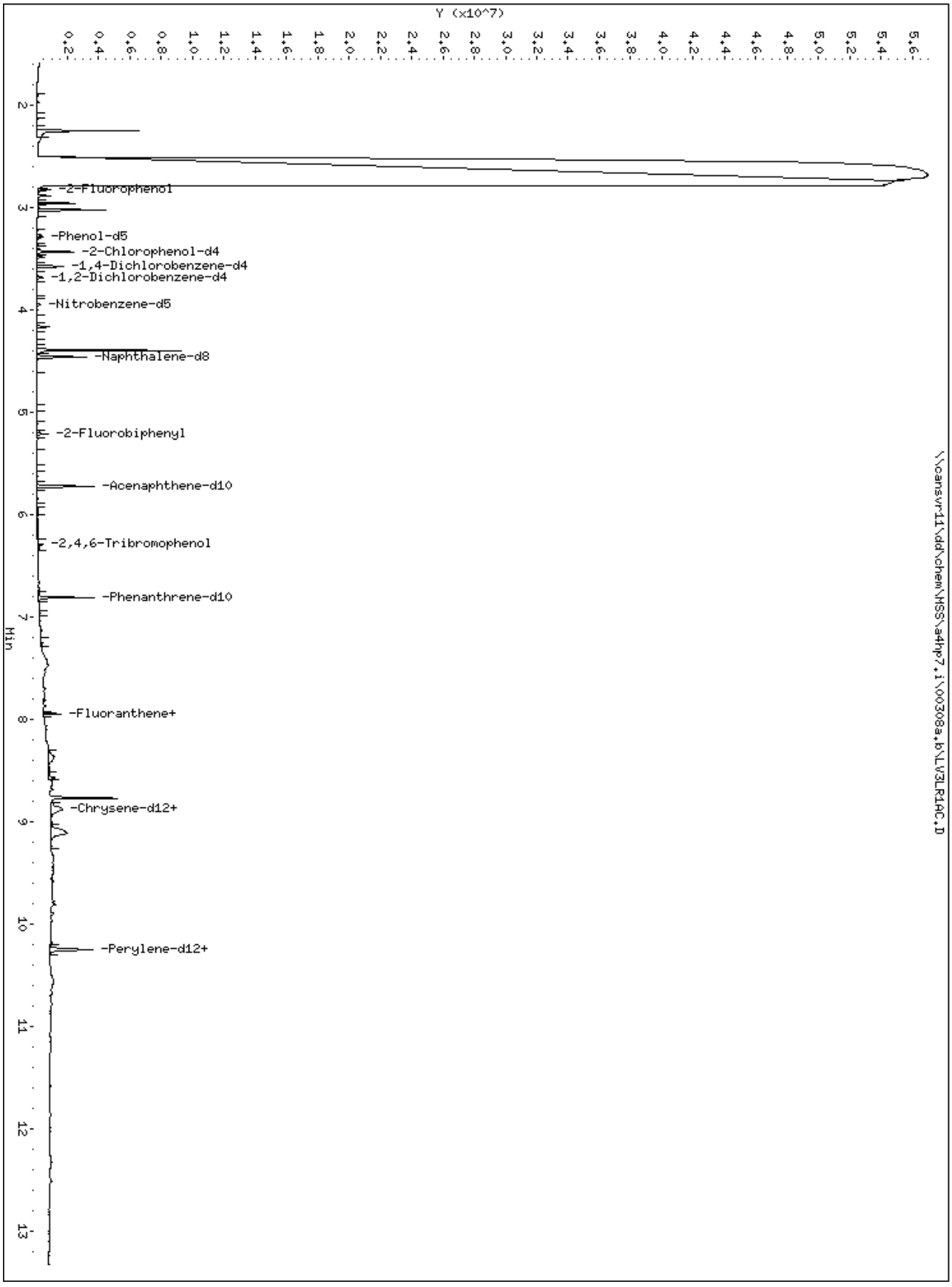
Instrument ID: a4hp7.i
Lab File ID: LV3LR1AC.D
Lab Smp Id: lv3lr1ac
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 10:16
Client Smp ID: F16SS-028M-5433-SO
Level: LOW
Sample Type: SOIL

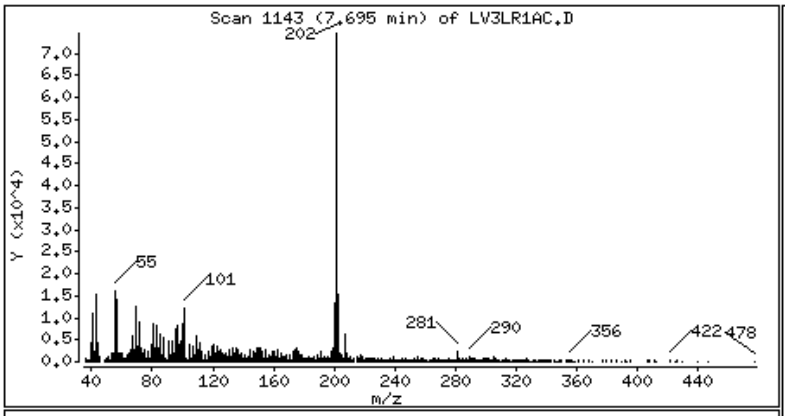
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	388613	194307	777226	255927	-34.14
2 Naphthalene-d8	1628032	814016	3256064	1077336	-33.83
3 Acenaphthene-d10	875709	437855	1751418	651146	-25.64
4 Phenanthrene-d10	1398875	699438	2797750	1149855	-17.80
5 Chrysene-d12	1597704	798852	3195408	1403800	-12.14
6 Perylene-d12	1473841	736921	2947682	1337939	-9.22

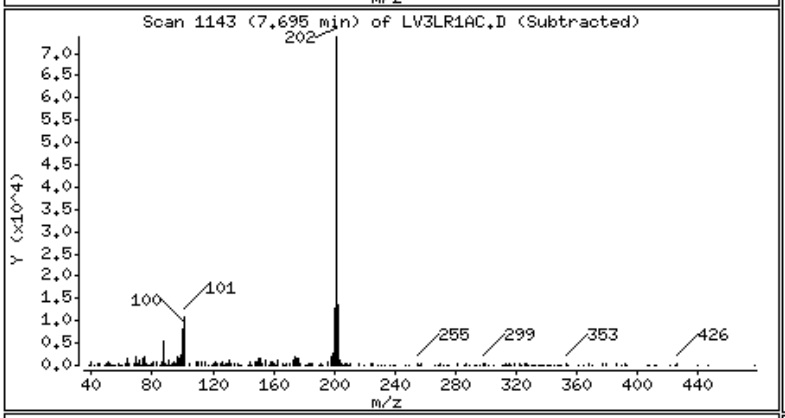
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.56	3.06	4.06	3.58	0.46
2 Naphthalene-d8	4.45	3.95	4.95	4.46	0.12
3 Acenaphthene-d10	5.72	5.22	6.22	5.72	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.08
5 Chrysene-d12	8.77	8.27	9.27	8.77	0.00
6 Perylene-d12	10.24	9.74	10.74	10.25	0.16

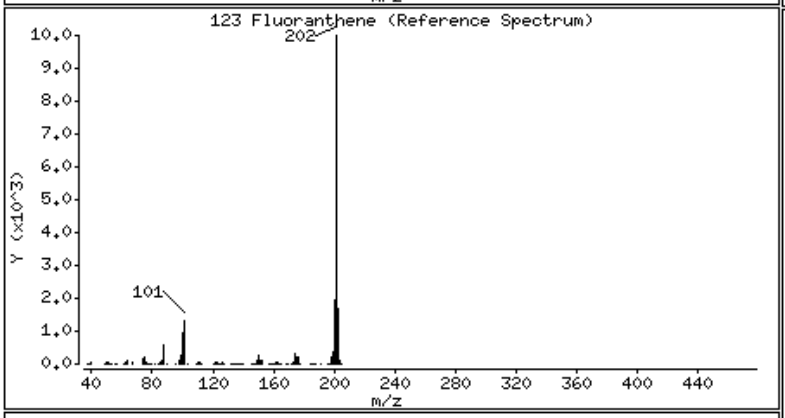
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

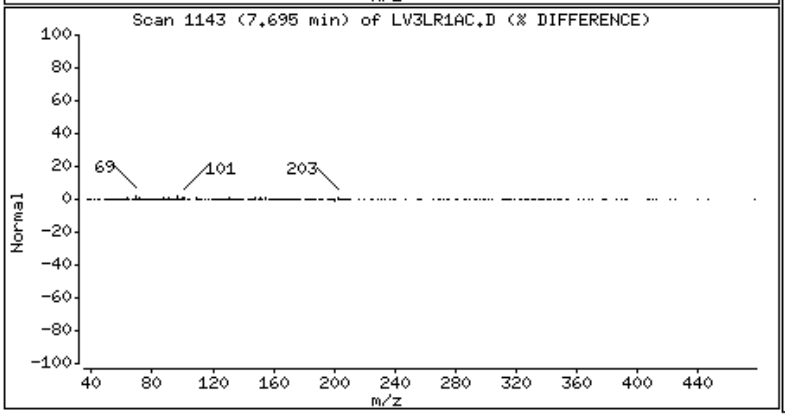

Y (x10^7)
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6
2
3
4
5
6
7
8
9
10
11
12
13
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Fluoranthene+
-Chrysene-d12+
-Perylene-d12+
\\cansvr11\dd\chem\HSS\a4hp7.i\00308a.b\LW3LR10C.D

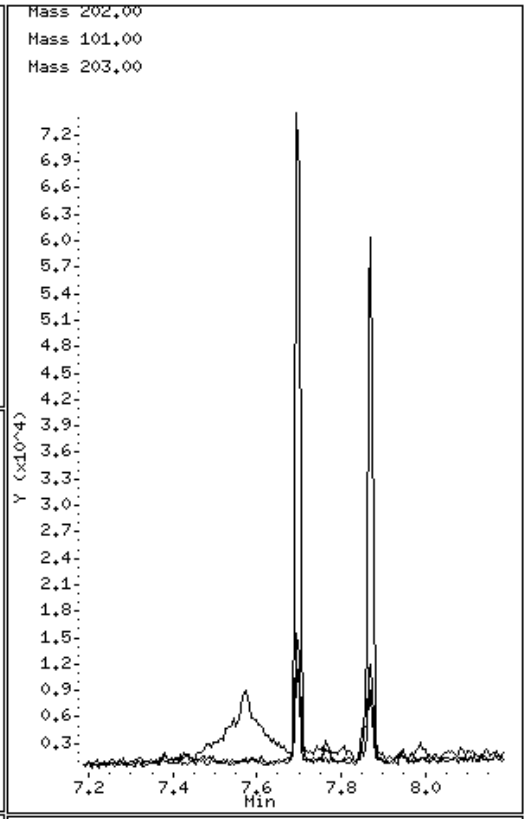
123 Fluoranthene

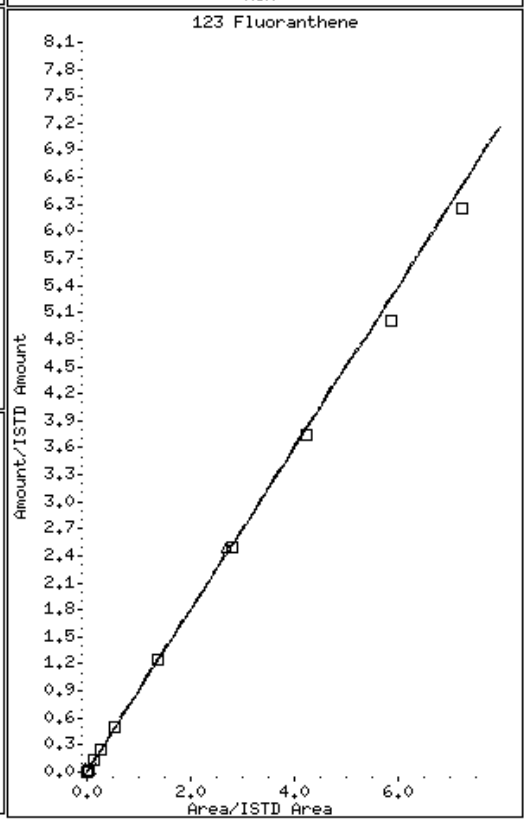




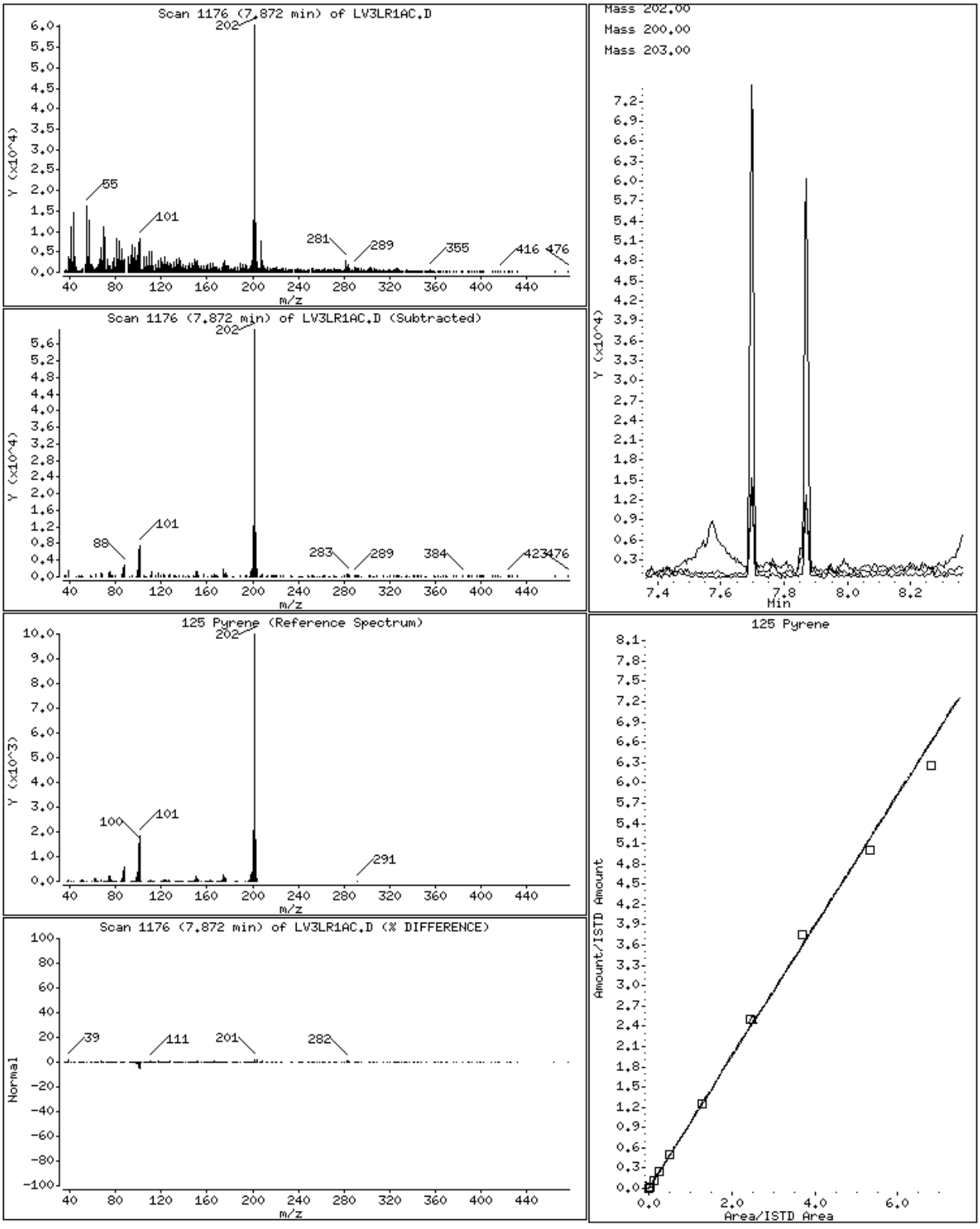




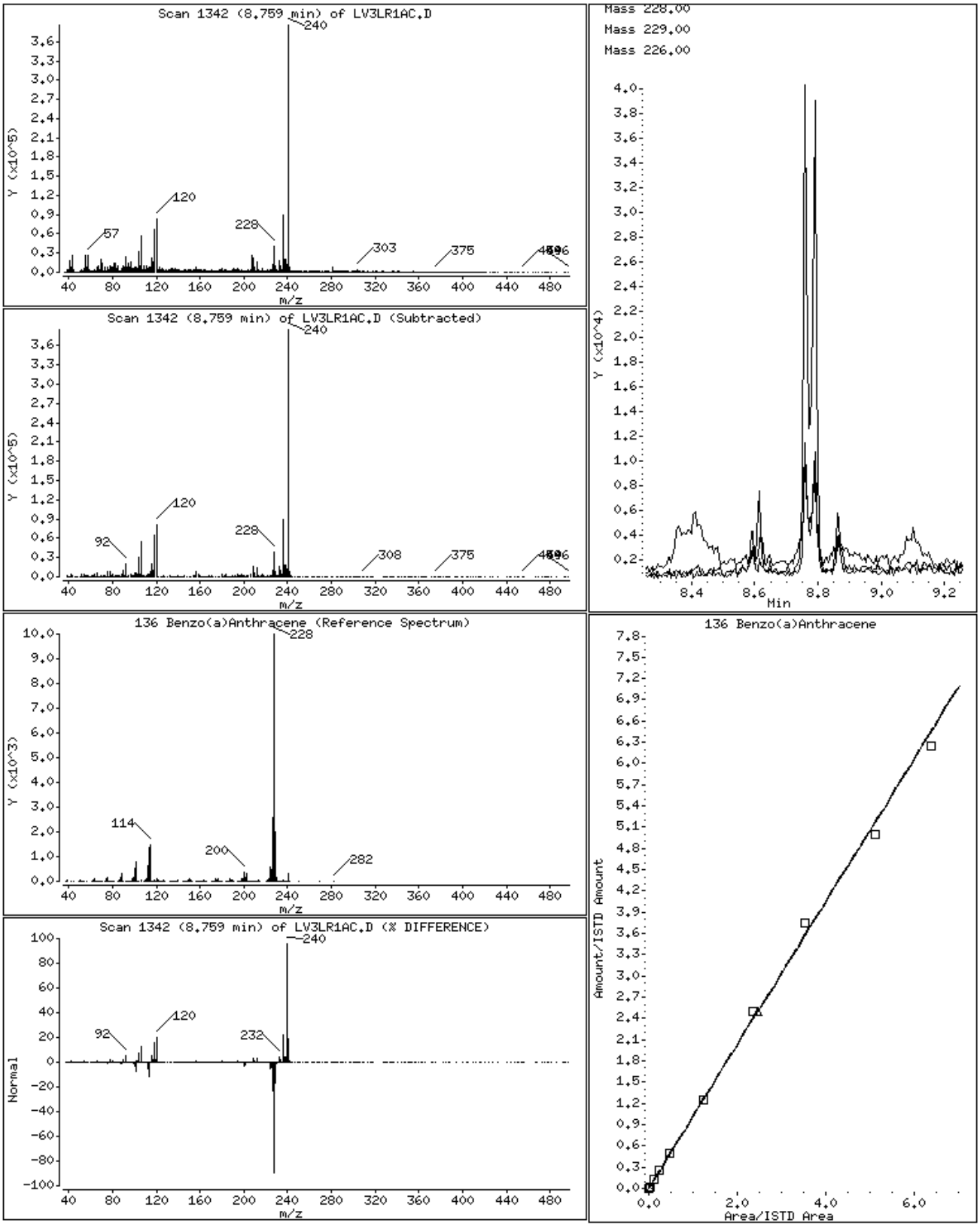




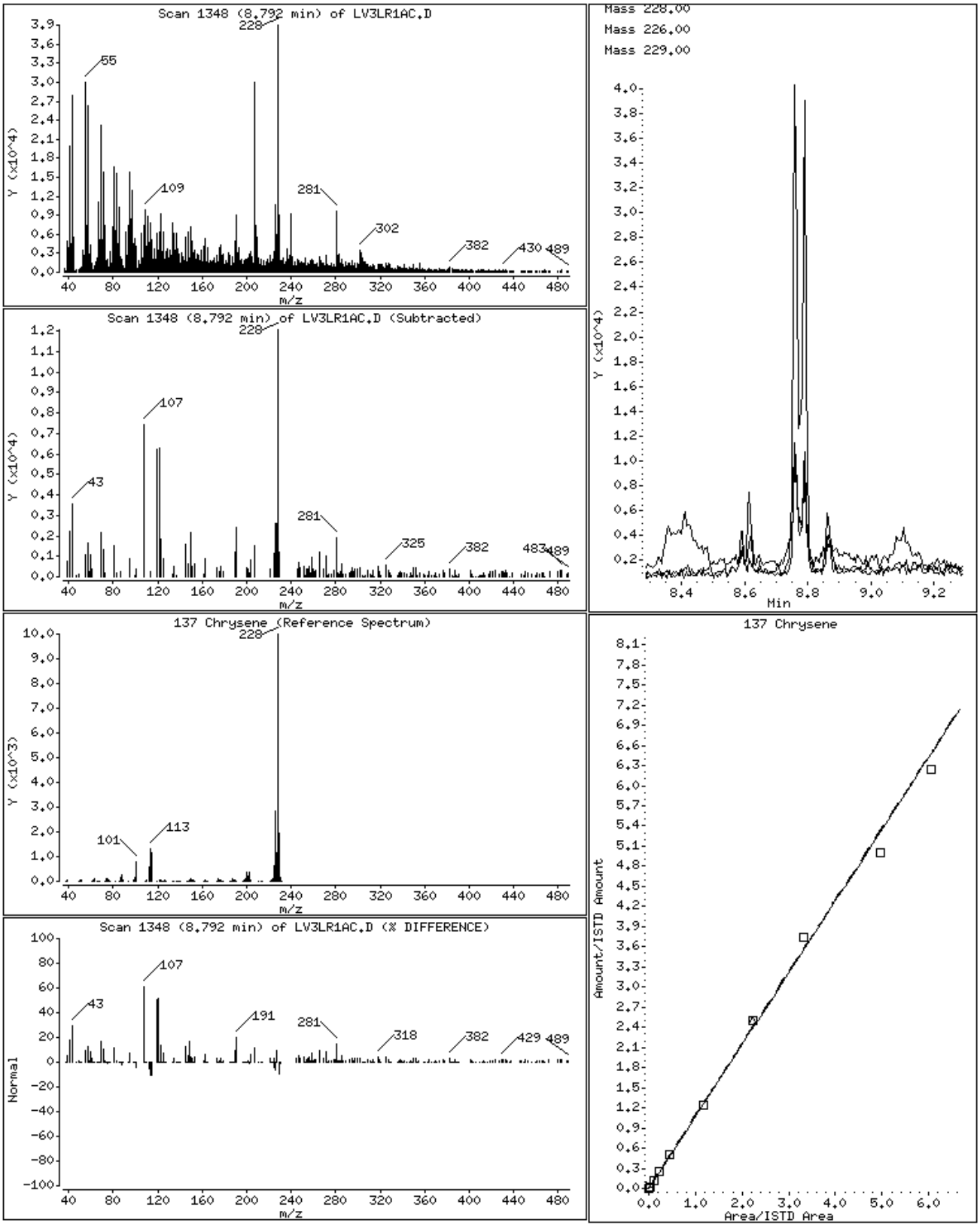
125 Pyrene


Scan 1176 (7.872 min) of LV3LR1AC.D
Y (x10^4)
m/z
202
55
101
281
289
355
416 476
Scan 1176 (7.872 min) of LV3LR1AC.D (Subtracted)
88
101
283
289
384
423476
Mass 202.00
Mass 200.00
Mass 203.00
Min
125 Pyrene (Reference Spectrum)
Y (x10^3)
100
101
291
125 Pyrene
Amount/ISTD Amount
Area/ISTD Area
Scan 1176 (7.872 min) of LV3LR1AC.D (% DIFFERENCE)
Normal
39
111
201
282

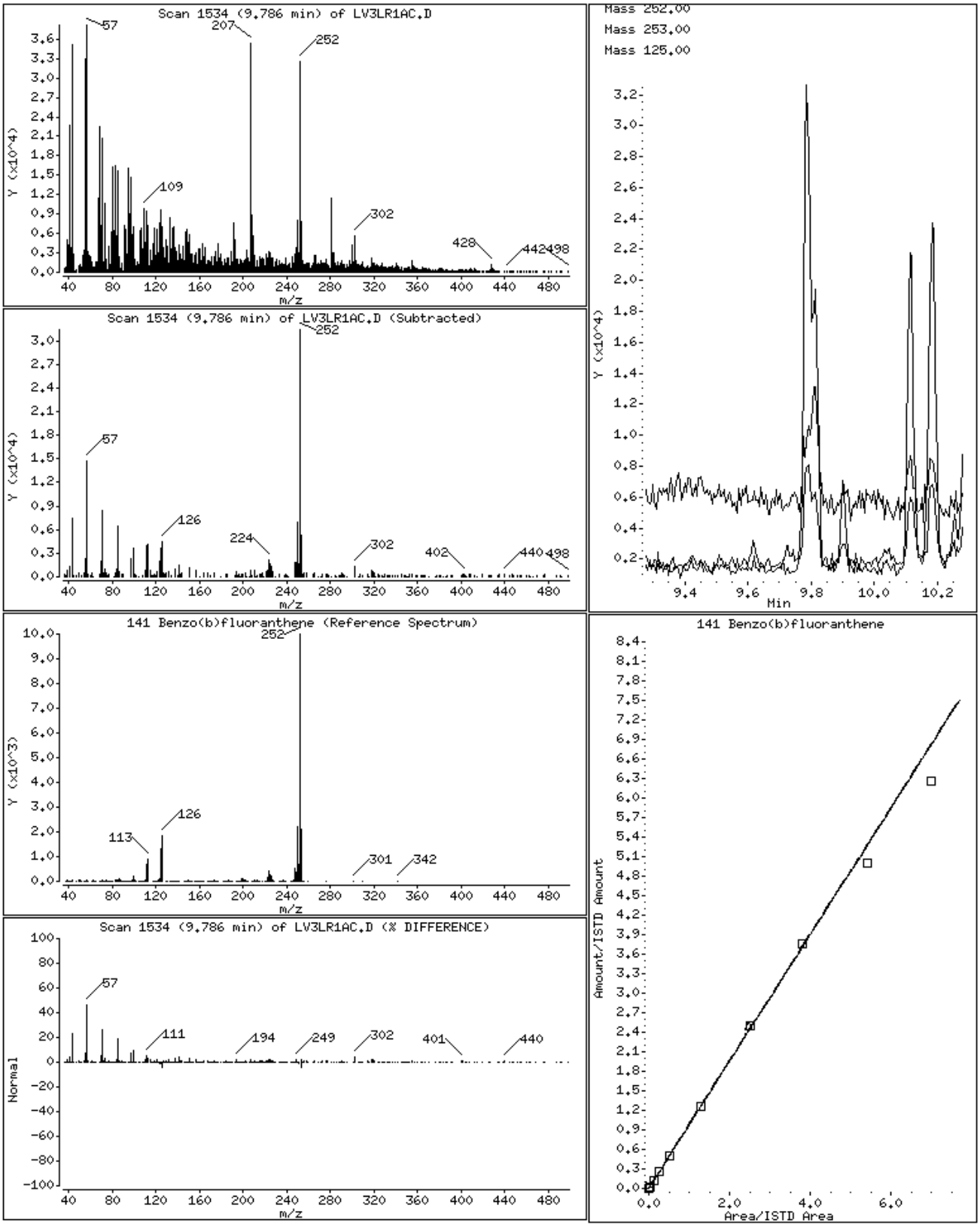
136 Benzo(a)Anthracene



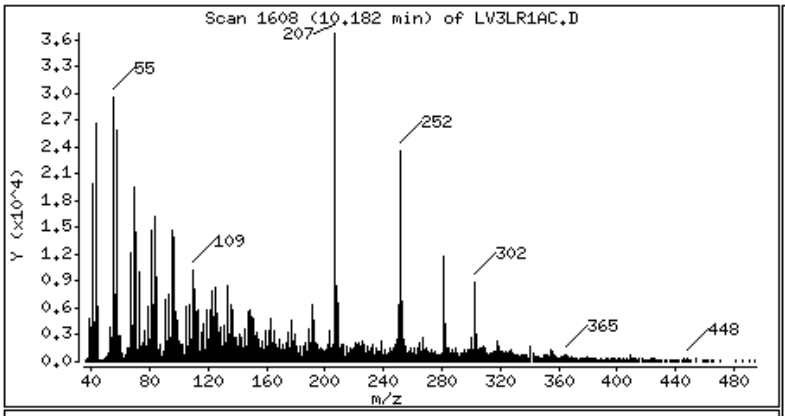
137 Chrysene

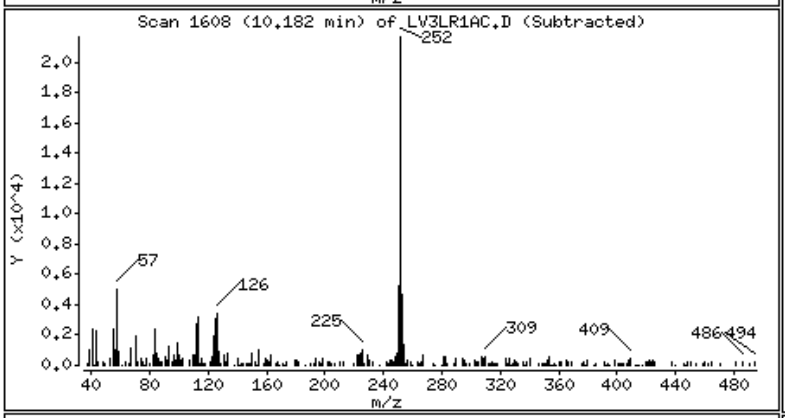


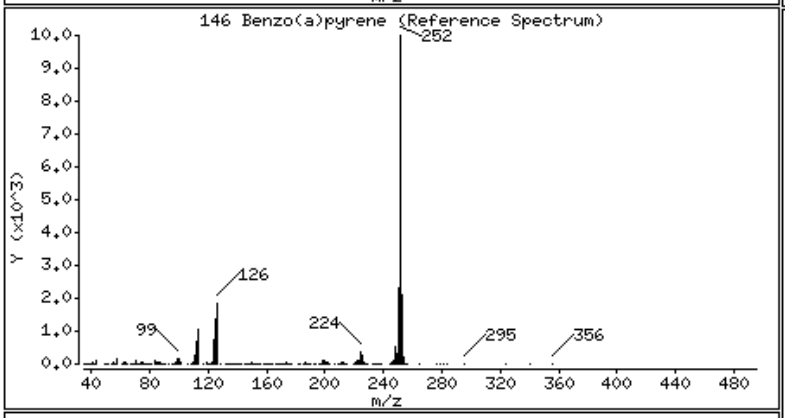
141 Benzo(b)fluoranthene

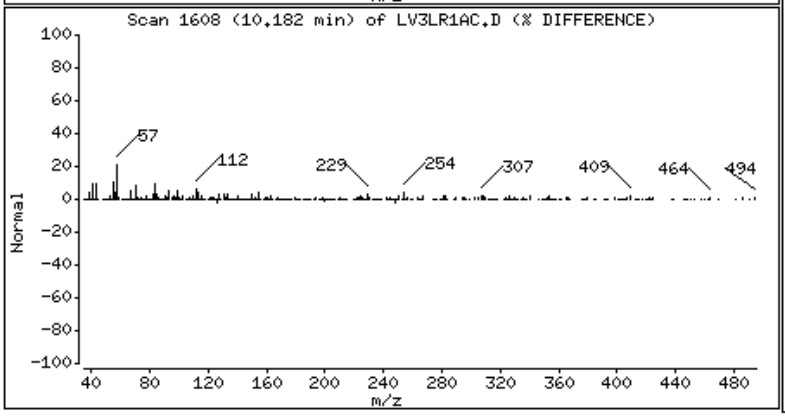


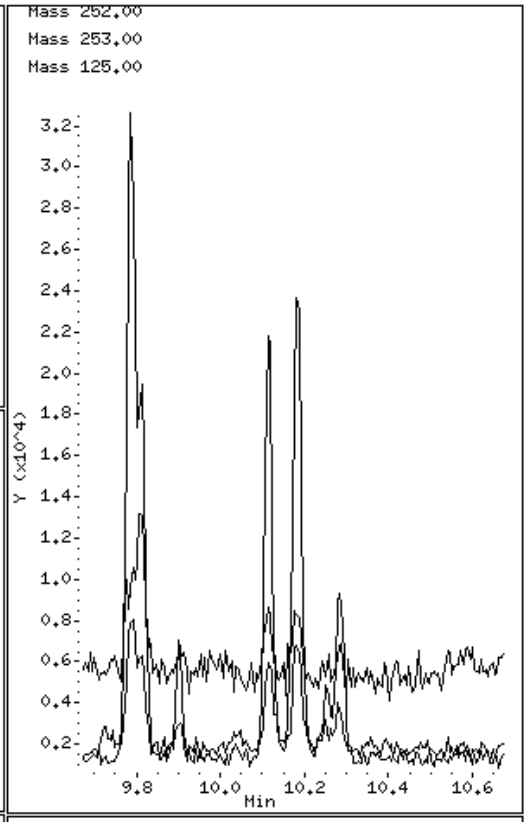
146 Benzo(a)pyrene

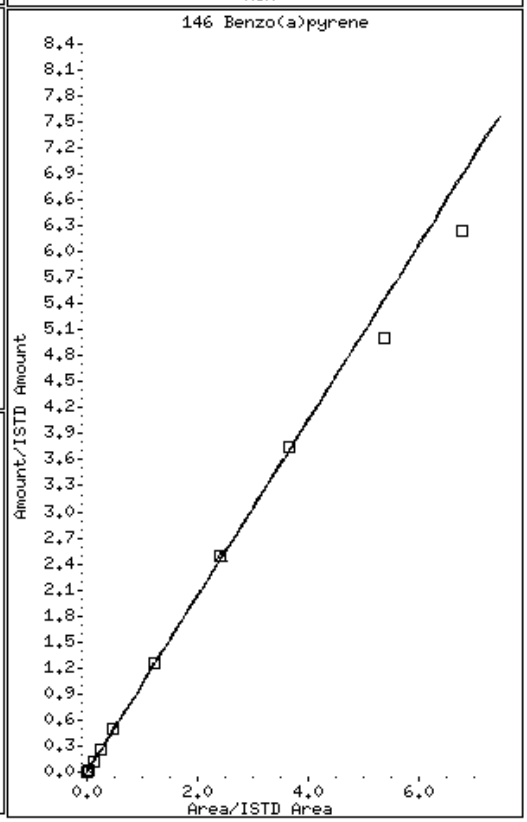












TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 05-Mar-2010 13:30

Calibration History

Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Start Cal Date: 05-MAR-2010 10:22
End Cal Date : 05-MAR-2010 12:55
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
05-MAR-2010 11:38	pah	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SLL0305.D
Cal Level: 2 , Cal Amount: 0.25000		
05-MAR-2010 11:19	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SL0305.D
Cal Level: 3 , Cal Amount: 0.50000		
05-MAR-2010 11:00	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SML0305.D
Cal Level: 4 , Cal Amount: 1.00000		
05-MAR-2010 10:41	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SM0305.D
Cal Level: 5 , Cal Amount: 2.50000		
05-MAR-2010 10:22	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMM0305.D
Cal Level: 6 , Cal Amount: 5.00000		
05-MAR-2010 12:55	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMH0305.D
Cal Level: 7 , Cal Amount: 7.50000		
05-MAR-2010 12:36	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SH0305.D
Cal Level: 8 , Cal Amount: 10.00000		

05-MAR-2010 12:17	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHH0305.D		

Cal Level: 9 , Cal Amount: 12.50000		
05-MAR-2010 11:57	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHHH0305.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

05-MAR-2010 13:14	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\ICVTCL.D		
05-MAR-2010 12:55	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMH0305.D		

mt 3/7/10

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAR-2010 10:22
End Cal Date : 05-MAR-2010 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj
Curve Type : Average

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SLL0305.D
Level 2: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SL0305.D
Level 3: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SML0305.D
Level 4: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SM0305.D
Level 5: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMM0305.D
Level 6: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMH0305.D
Level 7: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SH0305.D
Level 8: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHH0305.D
Level 9: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHHH0305.D

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
198 1,4-Dioxane	+++++	0.43863	0.44685	0.45278	0.43963	0.33250			
	0.36220	0.44046	0.53186				0.43061	14.031	<-
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
9 Pyridine	+++++	1.16096	0.94085	1.14909	1.19047	1.17298			
	0.97158	1.21604	1.32975				1.14147	11.178	<-
10 N-Nitrosodimethylamine	+++++	0.66020	0.63355	0.66262	0.66280	0.65150			
	0.65685	0.68547	0.69947				0.66406	3.050	<-
11 Ethyl methacrylate	+++++	0.97322	0.94220	0.96191	1.00625	0.99315			
	0.99267	1.00982	1.13471				1.00174	5.829	<-
12 3-Chloropropionitrile	+++++	0.77318	0.72958	0.74129	0.73954	0.74992			
	0.75531	0.78339	0.79433				0.75832	3.030	<-
13 Malononitrile	+++++	1.54801	1.45863	1.47392	1.48613	1.48616			
	1.48016	1.47964	1.45430				1.48337	1.935	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAR-2010 10:22
End Cal Date : 05-MAR-2010 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
14 2-Picoline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
15 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
16 Methyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
18 1,3-Dichloro-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
19 N-Nitrosodiethylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
21 Aniline	+++++	1.94245	1.88014	1.89054	1.94389	1.87695			
	1.87993	2.10123	1.95114				1.93328	3.880	<-
22 Phenol	+++++	1.56699	1.54532	1.53168	1.58008	1.56296			
	1.57282	1.67618	1.63791				1.58424	3.066	<-
23 bis(2-Chloroethyl)ether	1.24010	1.26982	1.21821	1.24993	1.30301	1.40957			
	1.44123	1.39427	1.40428				1.32560	6.507	
24 2-Chlorophenol	+++++	1.25134	1.25644	1.25107	1.28187	1.26637			
	1.27687	1.36720	1.33128				1.28531	3.277	<-
25 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
26 1,3-Dichlorobenzene	+++++	1.33519	1.25592	1.28748	1.29670	1.26330			
	1.27851	1.38567	1.36865				1.30893	3.717	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
27 1,4-Dichlorobenzene	+++++	1.29724	1.25763	1.26877	1.27934	1.25084			
	1.26286	1.37970	1.35538				1.29397	3.710	<-
28 1,2-Dichlorobenzene	+++++	1.23017	1.22482	1.23237	1.24772	1.20894			
	1.23197	1.32910	1.29574				1.25010	3.271	<-
29 Benzyl Alcohol	+++++	0.85190	0.81120	0.82454	0.82959	0.84085			
	0.85188	0.89708	0.84503				0.84401	3.042	<-
30 2-Methylphenol	+++++	1.16087	1.11498	1.13617	1.13695	1.15281			
	1.17362	1.26537	1.18211				1.16536	3.936	<-
31 bis(2-Chloroisopropyl)ether	+++++	1.88459	1.81903	1.83144	1.82974	1.89193			
	1.88301	1.95101	1.89239				1.87289	2.350	<-
32 N-Nitroso-di-n-propylamine	+++++	0.88437	0.87195	0.87120	0.89734	0.91624			
	0.93350	0.96885	0.90112				0.90557	3.673	<-
M 195 Cresols, total	+++++	2.36091	2.27385	2.31250	2.35585	2.37946			
	2.41816	2.57433	2.41926				2.38679	3.786	<-
192 4-Methylphenol	+++++	1.20004	1.15886	1.17633	1.21890	1.22666			
	1.24454	1.30896	1.23715				1.22143	3.775	<-
193 3-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
34 Hexachloroethane	+++++	0.46417	0.46995	0.46791	0.47538	0.47236			
	0.47834	0.52163	0.51950				0.48366	4.796	<-
35 Nitrobenzene	0.29207	0.29756	0.29229	0.28565	0.30000	0.28726			
	0.29282	0.31915	0.31958				0.29849	4.234	

TestAmerica North Canton

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
36 N-Nitrosopyrrolidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
37 Acetophenone	+++++	1.66812	1.65299	1.64194	1.67063	1.70188			
	1.72434	1.80360	1.69455				1.69476	3.041	<-
39 o-Toluidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
40 N-Nitrosopiperidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
41 Isophorone	+++++	0.59371	0.58550	0.57442	0.58571	0.59403			
	0.59579	0.63371	0.61595				0.59735	3.161	<-
42 2-Nitrophenol	+++++	0.14243	0.14590	0.15072	0.16081	0.16009			
	0.16464	0.18113	0.17249				0.15978	8.256	<-
43 2,4-Dimethylphenol	+++++	0.29260	0.28443	0.28845	0.29682	0.29163			
	0.29473	0.32198	0.31653				0.29840	4.522	<-
44 bis(2-Chloroethoxy)methane	+++++	0.34112	0.34292	0.33681	0.34162	0.34308			
	0.34429	0.36748	0.36380				0.34764	3.271	<-
45 O,O,O-Triethyl phosphorothioa	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
46 2,4-Toluenediamene	+++++	0.20405	0.19516	0.19193	0.19187	0.17210			
	0.15786	0.15727	0.18979				0.18250	9.728	<-
47 1,3,5-Trichlorobenzene	+++++	0.25529	0.25623	0.25183	0.25704	0.24328			
	0.24703	0.27247	0.27310				0.25703	4.202	<-

TestAmerica North Canton

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Last Edit : 05-Mar-2010 13:07 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
48 2,4-Dichlorophenol	+++++	0.22693	0.21977	0.22394	0.23346	0.22903			
	0.23211	0.25331	0.24794				0.23331	4.982	<-
49 Benzoic Acid	+++++	+++++	0.14369	0.17140	0.18582	0.20727			
	0.22609	0.25178	0.24766				0.20482	19.644	<-
50 1,2,4-Trichlorobenzene	+++++	0.25884	0.24972	0.24443	0.25459	0.24439			
	0.24541	0.27070	0.26717				0.25441	4.071	<-
51 Naphthalene	0.95460	0.92404	0.92285	0.89882	0.91735	0.89074			
	0.89808	0.95746	0.95893				0.92476	2.893	
52 4-Chloroaniline	+++++	0.40607	0.40201	0.40791	0.38420	0.37409			
	0.38271	0.42875	0.40617				0.39899	4.422	<-
53 a,a-Dimethyl-phenethylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
54 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
55 Hexachloropropene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
56 Hexachlorobutadiene	0.14173	0.12930	0.12648	0.12644	0.13035	0.12654			
	0.12943	0.14340	0.14003				0.13263	5.287	
57 1,2,3-Trichlorobenzene	+++++	0.24745	0.23522	0.23150	0.23953	0.23115			
	0.23425	0.25357	0.25019				0.24036	3.685	<-
58 N-Nitrosodi-n-butylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAR-2010 10:22
End Cal Date : 05-MAR-2010 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
59 4-Chloro-3-Methylphenol	+++++	0.24246	0.25195	0.24816	0.25710	0.26750			
	0.26886	0.28775	0.27812				0.26274	5.921	<-
60 p-Phenylene diamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
61 Safrole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
62 2-Methylnaphthalene	0.49989	0.48640	0.48951	0.48503	0.49995	0.50037			
	0.50733	0.53710	0.52541				0.50344	3.503	
63 1-Methylnaphthalene	0.57805	0.57812	0.56339	0.55645	0.57068	0.57140			
	0.57727	0.61179	0.60294				0.57890	3.073	
64 Hexachlorocyclopentadiene	+++++	0.16649	0.18098	0.21080	0.23854	0.23051			
	0.24315	0.27622	0.26079				0.22594	16.732	<-
65 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
66 2,4,6-Trichlorophenol	+++++	0.27793	0.28864	0.29043	0.30080	0.28986			
	0.29249	0.32610	0.31704				0.29791	5.390	<-
67 2,4,5-Trichlorophenol	+++++	0.31152	0.30773	0.31524	0.32192	0.30755			
	0.31426	0.34727	0.33441				0.31999	4.401	<-
68 1,2,3,5-Tetrachlorobenzene	+++++	0.44919	0.45659	0.44627	0.46538	0.42943			
	0.43493	0.48179	0.48150				0.45563	4.305	<-
69 1,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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Last Edit : 05-Mar-2010 13:07 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
70 2-Chloronaphthalene	1.08110	1.01602	0.99087	0.98493	1.00916	0.96827			
	0.96182	1.05987	1.04692				1.01322	4.115	
71 Isosafrole 1	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
M 188 Isosafrole, Total	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
72 Isosafrole 2	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
73 2-Nitroaniline	+++++	0.27128	0.27546	0.28712	0.29662	0.30142			
	0.30006	0.32751	0.31945				0.29737	6.587	<-
74 1,2,3,4-Tetrachlorobenzene	+++++	0.42529	0.42713	0.41578	0.42295	0.40320			
	0.39734	0.44208	0.43656				0.42129	3.643	<-
75 1,4-Naphthoquinone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
76 Dimethylphthalate	+++++	1.15264	1.14730	1.12961	1.14424	1.16582			
	1.14896	1.22355	1.20700				1.16489	2.828	<-
77 m-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
78 2,6-Dinitrotoluene	+++++	0.22072	0.23623	0.24307	0.26142	0.27026			
	0.26971	0.29573	0.28209				0.25990	9.602	<-
79 Acenaphthylene	1.66676	1.62725	1.63143	1.63314	1.66582	1.62676			
	1.61501	1.78131	1.73550				1.66478	3.426	

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
80 1,2-Dinitrobenzene	+++++	0.11153	0.11154	0.11773	0.13143	0.13711			
	0.13855	0.14671	0.14110				0.12946	10.761	<-
81 3-Nitroaniline	+++++	0.25775	0.27621	0.28229	0.28995	0.29488			
	0.29183	0.32171	0.31093				0.29070	6.827	<-
82 Acenaphthene	1.12851	1.06133	1.04897	1.04500	1.06800	1.03569			
	1.02653	1.11431	1.10799				1.07070	3.469	
83 2,4-Dinitrophenol	+++++	+++++	0.08579	0.12182	0.15551	0.18813			
	0.20233	0.20830	0.19240				0.16490	27.991	<-
84 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
85 4-Nitrophenol	+++++	+++++	0.11387	0.13208	0.13622	0.14721			
	0.14796	0.15797	0.15239				0.14110	10.603	<-
86 Dibenzofuran	1.46495	1.44171	1.41588	1.40201	1.41802	1.40997			
	1.39295	1.51504	1.48477				1.43837	2.894	
87 2,4-Dinitrotoluene	+++++	0.29217	0.31665	0.33408	0.35677	0.37930			
	0.37623	0.40188	0.38567				0.35534	10.656	<-
88 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
89 1-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
90 Zinophos	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
91 2,3,5,6-Tetrachlorophenol	+++++	0.22879	0.23803	0.25122	0.26962	0.28070			
	0.28148	0.30766	0.29441				0.26899	10.254	<-
92 2-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
93 Diethylphthalate	+++++	1.17589	1.16237	1.14748	1.15752	1.22740			
	1.20950	1.24376	1.22760				1.19394	3.131	<-
94 Fluorene	1.23490	1.20257	1.19559	1.18829	1.20068	1.22519			
	1.20183	1.28464	1.26673				1.22227	2.770	
95 4-Chlorophenyl-phenylether	+++++	0.53392	0.51282	0.53380	0.53543	0.54674			
	0.54305	0.58234	0.56727				0.54442	3.970	<-
96 4-Nitroaniline	+++++	0.26713	0.25751	0.29225	0.30272	0.32272			
	0.31745	0.34467	0.33445				0.30486	10.199	<-
97 5-Nitro-o-toluidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
98 4,6-Dinitro-2-methylphenol	+++++	+++++	0.06937	0.09166	0.11282	0.12612			
	0.13346	0.14817	0.13393				0.11651	23.609	<-
99 N-Nitrosodiphenylamine	+++++	0.52200	0.51562	0.51809	0.54146	0.52785			
	0.52967	0.57594	0.55914				0.53622	3.987	<-
100 1,2-Diphenylhydrazine	+++++	0.71448	0.70460	0.72882	0.73582	0.71045			
	0.71435	0.77385	0.77526				0.73220	3.822	<-
101 Diphenylamine	+++++	0.52200	0.51562	0.51809	0.54146	0.52785			
	0.52967	0.57594	0.55914				0.53622	3.987	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
102 Tetraethyl dithiopyrophosphat	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
103 Diallate 1	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
M 189 Diallate, Total	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
104 Phorate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
105 1,3,5-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
106 4-Bromophenyl-phenylether	+++++	0.18262	0.18582	0.18735	0.19232	0.18650			
	0.19234	0.21130	0.20143				0.19246	4.961	<-
107 Hexachlorobenzene	0.20176	0.17858	0.18188	0.18437	0.18672	0.18519			
	0.18553	0.20207	0.19700				0.18923	4.613	
108 Phenacetin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
109 Diallate 2	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
110 Dimethoate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
111 Pentachlorophenol	0.06532	0.09823	0.10848	0.12409	0.13163	0.13168			
	0.14119	0.15018	0.14242				0.12147	22.028	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
112 Pentachloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
113 4-Aminobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
114 Pronamide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
115 Phenanthrene	1.13303	1.06751	1.05461	1.06766	1.07161	1.06161			
	1.06297	1.13183	1.12736				1.08647	3.090	
116 Anthracene	1.12270	1.07200	1.04704	1.06697	1.09378	1.07542			
	1.08046	1.14921	1.14164				1.09436	3.245	
117 Dinoseb	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
118 Disulfoton	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
119 Carbazole	+++++	0.99841	0.96679	0.99509	1.02434	1.01490			
	1.02215	1.08690	1.06191				1.02131	3.735	<-
120 Di-n-Butylphthalate	+++++	1.21960	1.19078	1.20765	1.24532	1.28930			
	1.28290	1.16850	1.31216				1.23953	4.148	<-
121 4-Nitroquinoline 1-oxide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
122 Methapyrilene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
123 Fluoranthene	1.10885	1.09286	1.06815	1.07806	1.09953	1.11523			
	1.12461	1.17457	1.15829				1.11335	3.146	
124 Benzidine	+++++	0.47014	0.52087	0.56880	0.61050	0.57541			
	0.55385	0.62434	0.62556				0.56868	9.480	<-
125 Pyrene	1.05391	1.05007	1.01531	1.00324	1.03311	0.98178			
	0.98555	1.06746	1.08924				1.03108	3.616	
126 Aramite 1	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
M 191 Aramite, Total	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
127 Aramite 2	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
128 p-Dimethylamino azobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
129 p-Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
130 Famphur	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
131 Butylbenzylphthalate	+++++	0.47886	0.47048	0.45750	0.48352	0.47451			
	0.48037	0.50313	0.50845				0.48210	3.462	<-
132 3,3'-Dimethylbenzidine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
133 3,3'-Dimethoxybenzidine	+++++	0.18921	0.20480	0.21573	0.21966	0.20025			
	0.19247	0.22206	0.22680				0.20887	6.783	<-
134 2-Acetylaminofluorene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
135 3,3'-Dichlorobenzidine	+++++	0.33459	0.34683	0.34763	0.36337	0.35325			
	0.35498	0.39570	0.38687				0.36040	5.792	<-
136 Benzo(a)Anthracene	1.12630	0.98527	0.94961	0.93558	0.98272	0.94186			
	0.94263	1.02358	1.02150				0.98989	6.179	
137 Chrysene	0.95064	0.95582	0.92288	0.91053	0.93174	0.89054			
	0.88432	0.99112	0.96920				0.93409	3.840	
138 4,4'-Methylene bis(o-chloroan	+++++	0.18199	0.17674	0.17694	0.18839	0.18432			
	0.19016	0.20895	0.20352				0.18888	6.255	<-
139 bis(2-ethylhexyl)Phthalate	+++++	0.67859	0.66622	0.65620	0.68425	0.68214			
	0.68592	0.71948	0.72370				0.68706	3.429	<-
140 Di-n-octylphthalate	+++++	1.14532	1.17231	1.19497	1.24659	1.28311			
	1.29335	1.29995	1.40122				1.25460	6.614	<-
141 Benzo(b)fluoranthene	1.06285	0.95330	0.96797	1.01732	1.02199	1.00479			
	1.01751	1.08484	1.12130				1.02799	5.231	
142 Benzo(k)fluoranthene	1.06195	1.05170	1.07532	1.00274	1.06521	1.09249			
	1.09588	1.20376	1.19550				1.09384	6.019	
143 7,12-dimethylbenz[a]anthracen	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
146 Benzo(a)pyrene	0.98118	0.93766	0.94798	0.94134	0.97675	0.96355			
	0.97419	1.07388	1.08515				0.98685	5.559	
148 3-Methylcholanthrene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
149 Indeno(1,2,3-cd)pyrene	1.02582	1.04320	1.05034	1.06878	1.11431	1.08146			
	1.09715	1.22534	1.21910				1.10283	6.613	
150 Dibenz(a,h)anthracene	0.86447	0.83511	0.89974	0.90078	0.93343	0.91479			
	0.92446	1.04578	1.03681				0.92837	7.629	
151 Benzo(g,h,i)perylene	0.90015	0.87110	0.87669	0.88729	0.91695	0.90020			
	0.91567	1.00502	1.00910				0.92024	5.609	
230 2-Chloroacetophenone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
199 3-Picoline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
200 N,N-Dimethylacetamide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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	7.500 Level 7	10.000 Level 8	12.500 Level 9						
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
214 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
209 Benzaldehyde	+++++	0.84642	0.85876	0.87223	0.85891	0.79243			
	0.73464	0.65262	+++++				0.80229	10.216	<-
210 Caprolactam	+++++	0.09531	0.09563	0.10143	0.10269	0.11156			
	0.11161	0.11590	0.11218				0.10579	7.595	<-
211 1,1'-Biphenyl	+++++	1.36613	1.35128	1.33582	1.37750	1.30829			
	1.30127	1.43918	1.43268				1.36402	3.774	<-
212 Atrazine	+++++	0.12681	0.12669	0.13304	0.13538	0.13646			
	0.13419	0.13563	0.14010				0.13354	3.492	<-

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Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	7.500 Level 7	10.000 Level 8	12.500 Level 9	___ RRF	% RSD	
220 Diphenyl Thiourea	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
216 1,3-Diethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
218 1,1,3,3-Tetramethyl-2-Thioure	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
217 1,3-Dibutyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
215 bis(2-Chloroethoxy) ethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
221 Hexabromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
219 o-Benzyl Phenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
223 1,2-bis(2-chloroethoxy)ethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
224 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
225 1,3-Dimethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
226 Methyl parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAR-2010 10:22
End Cal Date : 05-MAR-2010 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
227 Parathion	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
228 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
229 Kepone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
231 Acrylamide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
232 2-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
233 3-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
234 4-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
235 Tributyl phosphate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
236 Phenyl sulfone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
237 3,4-Dichloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
239 N-methyl-pyrrolidone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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Last Edit : 05-Mar-2010 13:07 gruberj
Curve Type : Average

Compound	0.05000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD	
	7.500 Level 7	10.000 Level 8	12.500 Level 9						
$ 154 Nitrobenzene-d5	0.29092	0.29711	0.29207	0.29046	0.30620	0.29642			
	0.30080	0.32275	0.32289				0.30218	4.210	
$ 155 2-Fluorobiphenyl	1.21669	1.14906	1.13917	1.11896	1.15616	1.10314			
	1.09429	1.21393	1.19288				1.15381	3.955	
$ 156 Terphenyl-d14	0.63506	0.62350	0.61679	0.59653	0.63280	0.60724			
	0.61384	0.66018	0.66859				0.62828	3.784	
$ 157 Phenol-d5	1.51832	1.46314	1.45119	1.43854	1.48211	1.48253			
	1.48335	1.60254	1.56364				1.49837	3.601	
$ 158 2-Fluorophenol	1.18463	1.09010	1.08704	1.12058	1.10587	1.10483			
	1.10730	1.16705	1.23967				1.13412	4.570	
$ 159 2,4,6-Tribromophenol	+++++	0.12734	0.11457	0.12386	0.13207	0.14036			
	0.14271	0.15337	0.14549				0.13497	9.473	
$ 186 2-Chlorophenol-d4	+++++	1.16374	1.16003	1.14552	1.17441	1.16874			
	1.17001	1.26388	1.22940				1.18447	3.411	<-
$ 187 1,2-Dichlorobenzene-d4	+++++	0.79402	0.78134	0.79477	0.79353	0.77904			
	0.78003	0.83923	0.83150				0.79918	2.922	

Report Date : 05-Mar-2010 13:13

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INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SLL0305.D
Level 2: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SL0305.D
Level 3: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SML0305.D
Level 4: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SM0305.D
Level 5: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMM0305.D
Level 6: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMH0305.D
Level 7: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SH0305.D
Level 8: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHH0305.D
Level 9: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHHH0305.D

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
198 1,4-Dioxane	+++++	0.43863	0.44685	0.45278	0.43963	0.33250						
	0.36220	0.44046	0.53186				AVRG		0.43061		14.03130	<-
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
9 Pyridine	+++++	1.16096	0.94085	1.14909	1.19047	1.17298						
	0.97158	1.21604	1.32975				AVRG		1.14147		11.17760	<-
10 N-Nitrosodimethylamine	+++++	0.66020	0.63355	0.66262	0.66280	0.65150						
	0.65685	0.68547	0.69947				AVRG		0.66406		3.04972	<-
11 Ethyl methacrylate	+++++	0.97322	0.94220	0.96191	1.00625	0.99315						
	0.99267	1.00982	1.13471				AVRG		1.00174		5.82914	<-
12 3-Chloropropionitrile	+++++	0.77318	0.72958	0.74129	0.73954	0.74992						
	0.75531	0.78339	0.79433				AVRG		0.75832		3.02957	<-
13 Malononitrile	+++++	1.54801	1.45863	1.47392	1.48613	1.48616						
	1.48016	1.47964	1.45430				AVRG		1.48337		1.93455	<-
14 2-Picoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
15 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1 / 7.5000 Level 7	0.2500000 Level 2 / 10.0000 Level 8	0.5000000 Level 3 / 12.5000 Level 9	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
16 Methyl methanesulfonate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
18 1,3-Dichloro-2-propanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
19 N-Nitrosodiethylamine	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
21 Aniline	+++++ / 1.87993	1.94245 / 2.10123	1.88014 / 1.95114	1.89054	1.94389	1.87695	AVRG		1.93328		3.88039	<-
22 Phenol	+++++ / 1.57282	1.56699 / 1.67618	1.54532 / 1.63791	1.53168	1.58008	1.56296	AVRG		1.58424		3.06551	<-
23 bis(2-Chloroethyl)ether	1.24010 / 1.44123	1.26982 / 1.39427	1.21821 / 1.40428	1.24993	1.30301	1.40957	AVRG		1.32560		6.50673	
24 2-Chlorophenol	+++++ / 1.27687	1.25134 / 1.36720	1.25644 / 1.33128	1.25107	1.28187	1.26637	AVRG		1.28531		3.27735	<-

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Compound	0.0500000 Level 1 / 7.5000 Level 7	0.2500000 Level 2 / 10.0000 Level 8	0.5000000 Level 3 / 12.5000 Level 9	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
25 Pentachloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
26 1,3-Dichlorobenzene	+++++ / 1.27851	1.33519 / 1.38567	1.25592 / 1.36865	1.28748	1.29670	1.26330	AVRG		1.30893		3.71731	<-
27 1,4-Dichlorobenzene	+++++ / 1.26286	1.29724 / 1.37970	1.25763 / 1.35538	1.26877	1.27934	1.25084	AVRG		1.29397		3.70959	<-
28 1,2-Dichlorobenzene	+++++ / 1.23197	1.23017 / 1.32910	1.22482 / 1.29574	1.23237	1.24772	1.20894	AVRG		1.25010		3.27072	<-
29 Benzyl Alcohol	+++++ / 0.85188	0.85190 / 0.89708	0.81120 / 0.84503	0.82454	0.82959	0.84085	AVRG		0.84401		3.04219	<-
30 2-Methylphenol	+++++ / 1.17362	1.16087 / 1.26537	1.11498 / 1.18211	1.13617	1.13695	1.15281	AVRG		1.16536		3.93592	<-
31 bis(2-Chloroisopropyl)ether	+++++ / 1.88301	1.88459 / 1.95101	1.81903 / 1.89239	1.83144	1.82974	1.89193	AVRG		1.87289		2.35041	<-

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Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
32 N-Nitroso-di-n-propylamine	+++++	0.88437	0.87195	0.87120	0.89734	0.91624						
	0.93350	0.96885	0.90112				AVRG		0.90557		3.67340	<-
M 195 Cresols, total	+++++	2.36091	2.27385	2.31250	2.35585	2.37946						
	2.41816	2.57433	2.41926				AVRG		2.38679		3.78618	<-
192 4-Methylphenol	+++++	1.20004	1.15886	1.17633	1.21890	1.22666						
	1.24454	1.30896	1.23715				AVRG		1.22143		3.77499	<-
193 3-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
34 Hexachloroethane	+++++	0.46417	0.46995	0.46791	0.47538	0.47236						
	0.47834	0.52163	0.51950				AVRG		0.48366		4.79582	<-
35 Nitrobenzene	0.29207	0.29756	0.29229	0.28565	0.30000	0.28726						
	0.29282	0.31915	0.31958				AVRG		0.29849		4.23373	
36 N-Nitrosopyrrolidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
37 Acetophenone	+++++	1.66812	1.65299	1.64194	1.67063	1.70188						
	1.72434	1.80360	1.69455				AVRG		1.69476		3.04146	<-
39 o-Toluidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
40 N-Nitrosopiperidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
41 Isophorone	+++++	0.59371	0.58550	0.57442	0.58571	0.59403						
	0.59579	0.63371	0.61595				AVRG		0.59735		3.16146	<-
42 2-Nitrophenol	+++++	0.14243	0.14590	0.15072	0.16081	0.16009						
	0.16464	0.18113	0.17249				AVRG		0.15978		8.25560	<-
43 2,4-Dimethylphenol	+++++	0.29260	0.28443	0.28845	0.29682	0.29163						
	0.29473	0.32198	0.31653				AVRG		0.29840		4.52218	<-
44 bis(2-Chloroethoxy)methane	+++++	0.34112	0.34292	0.33681	0.34162	0.34308						
	0.34429	0.36748	0.36380				AVRG		0.34764		3.27121	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
45 O,O,O-Triethyl phosphorothioa	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
46 2,4-Toluenediamene	+++++	0.20405	0.19516	0.19193	0.19187	0.17210						
	0.15786	0.15727	0.18979				AVRG		0.18250		9.72799	<-
47 1,3,5-Trichlorobenzene	+++++	0.25529	0.25623	0.25183	0.25704	0.24328						
	0.24703	0.27247	0.27310				AVRG		0.25703		4.20157	<-
48 2,4-Dichlorophenol	+++++	0.22693	0.21977	0.22394	0.23346	0.22903						
	0.23211	0.25331	0.24794				AVRG		0.23331		4.98175	<-
49 Benzoic Acid	+++++	+++++	96165	232862	621438	1024069						
	1805848	2951374	1775257				QUAD	0.27250	4.65883	-0.25272	0.99786	<-
50 1,2,4-Trichlorobenzene	+++++	0.25884	0.24972	0.24443	0.25459	0.24439						
	0.24541	0.27070	0.26717				AVRG		0.25441		4.07106	<-
51 Naphthalene	0.95460	0.92404	0.92285	0.89882	0.91735	0.89074						
	0.89808	0.95746	0.95893				AVRG		0.92476		2.89336	

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
52 4-Chloroaniline	+++++	0.40607	0.40201	0.40791	0.38420	0.37409						
	0.38271	0.42875	0.40617				AVRG		0.39899		4.42246	<-
53 a,a-Dimethyl-phenethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
54 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
55 Hexachloropropene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
56 Hexachlorobutadiene	0.14173	0.12930	0.12648	0.12644	0.13035	0.12654						
	0.12943	0.14340	0.14003				AVRG		0.13263		5.28683	
57 1,2,3-Trichlorobenzene	+++++	0.24745	0.23522	0.23150	0.23953	0.23115						
	0.23425	0.25357	0.25019				AVRG		0.24036		3.68490	<-
58 N-Nitrosodi-n-butylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
59 4-Chloro-3-Methylphenol	+++++	0.24246	0.25195	0.24816	0.25710	0.26750						
	0.26886	0.28775	0.27812				AVRG		0.26274		5.92062	<-
60 p-Phenylene diamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
61 Safrole	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
62 2-Methylnaphthalene	0.49989	0.48640	0.48951	0.48503	0.49995	0.50037						
	0.50733	0.53710	0.52541				AVRG		0.50344		3.50347	
63 1-Methylnaphthalene	0.57805	0.57812	0.56339	0.55645	0.57068	0.57140						
	0.57727	0.61179	0.60294				AVRG		0.57890		3.07330	
64 Hexachlorocyclopentadiene	+++++	15437	31965	75275	210994	323128						
	559409	892110	505417				QUAD	0.05543	4.27629	-0.35444	0.99660	<-
65 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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INITIAL CALIBRATION DATA

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End Cal Date : 05-MAR-2010 12:55
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
66 2,4,6-Trichlorophenol	+++++	0.27793	0.28864	0.29043	0.30080	0.28986						
	0.29249	0.32610	0.31704				AVRG		0.29791		5.38981	<-
67 2,4,5-Trichlorophenol	+++++	0.31152	0.30773	0.31524	0.32192	0.30755						
	0.31426	0.34727	0.33441				AVRG		0.31999		4.40065	<-
68 1,2,3,5-Tetrachlorobenzene	+++++	0.44919	0.45659	0.44627	0.46538	0.42943						
	0.43493	0.48179	0.48150				AVRG		0.45563		4.30540	<-
69 1,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
70 2-Chloronaphthalene	1.08110	1.01602	0.99087	0.98493	1.00916	0.96827						
	0.96182	1.05987	1.04692				AVRG		1.01322		4.11488	
71 Isosafrole 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
M 188 Isosafrole, Total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

North Canton

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Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
72 Isosafrole 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
73 2-Nitroaniline	+++++	0.27128	0.27546	0.28712	0.29662	0.30142						
	0.30006	0.32751	0.31945				AVRG		0.29737		6.58718	<-
74 1,2,3,4-Tetrachlorobenzene	+++++	0.42529	0.42713	0.41578	0.42295	0.40320						
	0.39734	0.44208	0.43656				AVRG		0.42129		3.64312	<-
75 1,4-Naphthoquinone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
76 Dimethylphthalate	+++++	1.15264	1.14730	1.12961	1.14424	1.16582						
	1.14896	1.22355	1.20700				AVRG		1.16489		2.82834	<-
77 m-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
78 2,6-Dinitrotoluene	+++++	0.22072	0.23623	0.24307	0.26142	0.27026						
	0.26971	0.29573	0.28209				AVRG		0.25990		9.60236	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
79 Acenaphthylene	1.66676	1.62725	1.63143	1.63314	1.66582	1.62676						
	1.61501	1.78131	1.73550				AVRG		1.66478		3.42639	
80 1,2-Dinitrobenzene	+++++	0.11153	0.11154	0.11773	0.13143	0.13711						
	0.13855	0.14671	0.14110				AVRG		0.12946		10.76062	<-
81 3-Nitroaniline	+++++	0.25775	0.27621	0.28229	0.28995	0.29488						
	0.29183	0.32171	0.31093				AVRG		0.29070		6.82687	<-
82 Acenaphthene	1.12851	1.06133	1.04897	1.04500	1.06800	1.03569						
	1.02653	1.11431	1.10799				AVRG		1.07070		3.46922	
83 2,4-Dinitrophenol	+++++	+++++	30304	87003	275100	527427						
	930951	1345502	745734				QUAD	0.50988	4.38267	0.19015	0.99612	<-
84 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
85 4-Nitrophenol	+++++	+++++	0.11387	0.13208	0.13622	0.14721						
	0.14796	0.15797	0.15239				AVRG		0.14110		10.60280	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
86 Dibenzofuran	1.46495	1.44171	1.41588	1.40201	1.41802	1.40997						
	1.39295	1.51504	1.48477				AVRG		1.43837		2.89381	
87 2,4-Dinitrotoluene	+++++	0.29217	0.31665	0.33408	0.35677	0.37930						
	0.37623	0.40188	0.38567				AVRG		0.35534		10.65624	<-
88 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
89 1-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
90 Zinophos	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
91 2,3,5,6-Tetrachlorophenol	+++++	0.22879	0.23803	0.25122	0.26962	0.28070						
	0.28148	0.30766	0.29441				AVRG		0.26899		10.25378	<-
92 2-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
93 Diethylphthalate	+++++	1.17589	1.16237	1.14748	1.15752	1.22740						
	1.20950	1.24376	1.22760				AVRG		1.19394		3.13147	<-
94 Fluorene	1.23490	1.20257	1.19559	1.18829	1.20068	1.22519						
	1.20183	1.28464	1.26673				AVRG		1.22227		2.77044	
95 4-Chlorophenyl-phenylether	+++++	0.53392	0.51282	0.53380	0.53543	0.54674						
	0.54305	0.58234	0.56727				AVRG		0.54442		3.96963	<-
96 4-Nitroaniline	+++++	0.26713	0.25751	0.29225	0.30272	0.32272						
	0.31745	0.34467	0.33445				AVRG		0.30486		10.19870	<-
97 5-Nitro-o-toluidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
98 4,6-Dinitro-2-methylphenol	+++++	+++++	19550	51801	159258	300610						
	513701	777212	418560				QUAD	0.18881	7.14734	-0.24046	0.99370	<-
99 N-Nitrosodiphenylamine	+++++	0.52200	0.51562	0.51809	0.54146	0.52785						
	0.52967	0.57594	0.55914				AVRG		0.53622		3.98687	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
100 1,2-Diphenylhydrazine	+++++	0.71448	0.70460	0.72882	0.73582	0.71045						
	0.71435	0.77385	0.77526				AVRG		0.73220		3.82155	<-
101 Diphenylamine	+++++	0.52200	0.51562	0.51809	0.54146	0.52785						
	0.52967	0.57594	0.55914				AVRG		0.53622		3.98687	<-
102 Tetraethyl dithiopyrophosphat	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
103 Diallate 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
M 189 Diallate, Total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
104 Phorate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
105 1,3,5-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
106 4-Bromophenyl-phenylether	+++++	0.18262	0.18582	0.18735	0.19232	0.18650						
	0.19234	0.21130	0.20143				AVRG		0.19246		4.96120	<-
107 Hexachlorobenzene	0.20176	0.17858	0.18188	0.18437	0.18672	0.18519						
	0.18553	0.20207	0.19700				AVRG		0.18923		4.61251	
108 Phenacetin	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
109 Diallate 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
110 Dimethoate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
111 Pentachlorophenol	3415	29066	61145	140261	371621	627688						
	1086920	1575458	890145				QUAD	0.10329	7.25612	-0.25174	0.99813	
112 Pentachloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
113 4-Aminobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
114 Pronamide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
115 Phenanthrene	1.13303	1.06751	1.05461	1.06766	1.07161	1.06161						
	1.06297	1.13183	1.12736				AVRG		1.08647		3.09002	
116 Anthracene	1.12270	1.07200	1.04704	1.06697	1.09378	1.07542						
	1.08046	1.14921	1.14164				AVRG		1.09436		3.24494	
117 Dinoseb	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
118 Disulfoton	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
119 Carbazole	+++++	0.99841	0.96679	0.99509	1.02434	1.01490						
	1.02215	1.08690	1.06191				AVRG		1.02131		3.73483	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
120 Di-n-Butylphthalate	+++++	1.21960	1.19078	1.20765	1.24532	1.28930						
	1.28290	1.16850	1.31216				AVRG		1.23953		4.14772	<-
121 4-Nitroquinoline 1-oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
122 Methapyrilene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
123 Fluoranthene	1.10885	1.09286	1.06815	1.07806	1.09953	1.11523						
	1.12461	1.17457	1.15829				AVRG		1.11335		3.14638	
124 Benzidine	+++++	0.47014	0.52087	0.56880	0.61050	0.57541						
	0.55385	0.62434	0.62556				AVRG		0.56868		9.47995	<-
125 Pyrene	1.05391	1.05007	1.01531	1.00324	1.03311	0.98178						
	0.98555	1.06746	1.08924				AVRG		1.03108		3.61589	
126 Aramite 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9	Curve	Coefficients b	m1	m2	%RSD or R^2	
M 191 Aramite, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
127 Aramite 2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
128 p-Dimethylamino azobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
129 p-Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
130 Famphur	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
131 Butylbenzylphthalate	+++++	0.47886	0.47048	0.45750	0.48352	0.47451	0.48037	0.50313	0.50845	AVRG		0.48210		3.46196	<-
132 3,3'-Dimethylbenzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
133 3,3'-Dimethoxybenzidine	+++++	0.18921	0.20480	0.21573	0.21966	0.20025						
	0.19247	0.22206	0.22680				AVRG		0.20887		6.78297	<-
134 2-Acetylaminofluorene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
135 3,3'-Dichlorobenzidine	+++++	0.33459	0.34683	0.34763	0.36337	0.35325						
	0.35498	0.39570	0.38687				AVRG		0.36040		5.79153	<-
136 Benzo(a)Anthracene	1.12630	0.98527	0.94961	0.93558	0.98272	0.94186						
	0.94263	1.02358	1.02150				AVRG		0.98989		6.17856	
137 Chrysene	0.95064	0.95582	0.92288	0.91053	0.93174	0.89054						
	0.88432	0.99112	0.96920				AVRG		0.93409		3.83985	
138 4,4'-Methylene bis(o-chloroan	+++++	0.18199	0.17674	0.17694	0.18839	0.18432						
	0.19016	0.20895	0.20352				AVRG		0.18888		6.25526	<-
139 bis(2-ethylhexyl)Phthalate	+++++	0.67859	0.66622	0.65620	0.68425	0.68214						
	0.68592	0.71948	0.72370				AVRG		0.68706		3.42918	<-

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Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
140 Di-n-octylphthalate	+++++	1.14532	1.17231	1.19497	1.24659	1.28311						
	1.29335	1.29995	1.40122				AVRG		1.25460		6.61417	<-
141 Benzo(b)fluoranthene	1.06285	0.95330	0.96797	1.01732	1.02199	1.00479						
	1.01751	1.08484	1.12130				AVRG		1.02799		5.23073	
142 Benzo(k)fluoranthene	1.06195	1.05170	1.07532	1.00274	1.06521	1.09249						
	1.09588	1.20376	1.19550				AVRG		1.09384		6.01902	
143 7,12-dimethylbenz[a]anthracen	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
146 Benzo(a)pyrene	0.98118	0.93766	0.94798	0.94134	0.97675	0.96355						
	0.97419	1.07388	1.08515				AVRG		0.98685		5.55914	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAR-2010 10:22
End Cal Date : 05-MAR-2010 12:55
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
148 3-Methylcholanthrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
149 Indeno(1,2,3-cd)pyrene	1.02582	1.04320	1.05034	1.06878	1.11431	1.08146						
	1.09715	1.22534	1.21910				AVRG		1.10283		6.61291	
150 Dibenz(a,h)anthracene	0.86447	0.83511	0.89974	0.90078	0.93343	0.91479						
	0.92446	1.04578	1.03681				AVRG		0.92837		7.62903	
151 Benzo(g,h,i)perylene	0.90015	0.87110	0.87669	0.88729	0.91695	0.90020						
	0.91567	1.00502	1.00910				AVRG		0.92024		5.60937	
230 2-Chloroacetophenone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
199 3-Picoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
200 N,N-Dimethylacetamide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

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Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
214 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
209 Benzaldehyde	+++++	0.84642	0.85876	0.87223	0.85891	0.79243						
	0.73464	0.65262	+++++				AVRG		0.80229		10.21622	<-
210 Caprolactam	+++++	0.09531	0.09563	0.10143	0.10269	0.11156						
	0.11161	0.11590	0.11218				AVRG		0.10579		7.59547	<-
211 1,1'-Biphenyl	+++++	1.36613	1.35128	1.33582	1.37750	1.30829						
	1.30127	1.43918	1.43268				AVRG		1.36402		3.77398	<-
212 Atrazine	+++++	0.12681	0.12669	0.13304	0.13538	0.13646						
	0.13419	0.13563	0.14010				AVRG		0.13354		3.49228	<-
220 Diphenyl Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
216 1,3-Diethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

TestAmerica North Canton

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
218 1,1,3,3-Tetramethyl-2-Thioure	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
217 1,3-Dibutyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
215 bis(2-Chloroethoxy) ethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
221 Hexabromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
219 o-Benzyl Phenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
223 1,2-bis(2-chloroethoxy)ethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
224 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAR-2010 10:22
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Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
225 1,3-Dimethyl-2-Thiourea	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
226 Methyl parathion	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
227 Parathion	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
228 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
229 Kepone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
231 Acrylamide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
232 2-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

North Canton

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
233 3-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
234 4-Methylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
235 Tributyl phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
236 Phenyl sulfone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
237 3,4-Dichloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
239 N-methyl-pyrrolidone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
$ 154 Nitrobenzene-d5	0.29092	0.29711	0.29207	0.29046	0.30620	0.29642						
	0.30080	0.32275	0.32289				AVRG		0.30218		4.21050	

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	5.0000 Level 6	Curve	Coefficients b	mI	m2	%RSD or R^2	
	7.5000 Level 7	10.0000 Level 8	12.5000 Level 9									
$ 155 2-Fluorobiphenyl	1.21669	1.14906	1.13917	1.11896	1.15616	1.10314						
	1.09429	1.21393	1.19288				AVRG		1.15381		3.95541	
$ 156 Terphenyl-d14	0.63506	0.62350	0.61679	0.59653	0.63280	0.60724						
	0.61384	0.66018	0.66859				AVRG		0.62828		3.78446	
$ 157 Phenol-d5	1.51832	1.46314	1.45119	1.43854	1.48211	1.48253						
	1.48335	1.60254	1.56364				AVRG		1.49837		3.60144	
$ 158 2-Fluorophenol	1.18463	1.09010	1.08704	1.12058	1.10587	1.10483						
	1.10730	1.16705	1.23967				AVRG		1.13412		4.56984	
$ 159 2,4,6-Tribromophenol	+++++	0.12734	0.11457	0.12386	0.13207	0.14036						
	0.14271	0.15337	0.14549				AVRG		0.13497		9.47329	
$ 186 2-Chlorophenol-d4	+++++	1.16374	1.16003	1.14552	1.17441	1.16874						
	1.17001	1.26388	1.22940				AVRG		1.18447		3.41120	<-
$ 187 1,2-Dichlorobenzene-d4	+++++	0.79402	0.78134	0.79477	0.79353	0.77904						
	0.78003	0.83923	0.83150				AVRG		0.79918		2.92167	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAR-2010 10:22
End Cal Date : 05-MAR-2010 12:55
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Last Edit : 05-Mar-2010 13:07 gruberj

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SH0305.D
Lab Smp Id: l7
Inj Date : 05-MAR-2010 12:36
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l7,00305a.b,8270C-625,1-827042d.sub,1,,7
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Meth Date : 05-Mar-2010 13:15 a4hp7.i Quant Type: ISTD
Cal Date : 05-MAR-2010 12:17 Cal File: 7SHH0305.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.649	3.649	(1.000)	243046	2.00000	
* 2	Naphthalene-d8	136	4.553	4.553	(1.000)	1064973	2.00000	
* 3	Acenaphthene-d10	164	5.820	5.820	(1.000)	613501	2.00000	
* 4	Phenanthrene-d10	188	6.911	6.911	(1.000)	1026403	2.00000	
* 5	Chrysene-d12	240	8.901	8.901	(1.000)	1238926	2.00000	
* 6	Perylene-d12	264	10.458	10.458	(1.000)	1107116	2.00000	
9	Pyridine	79	2.034	2.034	(0.557)	885519	7.50000	6.3838
10	N-Nitrosodimethylamine	74	2.007	2.007	(0.550)	598668	7.50000	7.4186(M)
11	Ethyl methacrylate	69	2.237	2.237	(0.613)	904738	7.50000	7.4320
12	3-Chloropropionitrile	54	2.424	2.424	(0.664)	688411	7.50000	7.4703(M)
13	Malononitrile	66	2.558	2.558	(0.701)	1349048	7.50000	7.4838(M)
209	Benzaldehyde	77	3.365	3.365	(0.922)	669564	7.50000	6.8676
21	Aniline	93	3.424	3.424	(0.938)	1713409	7.50000	7.2930
22	Phenol	94	3.355	3.355	(0.919)	1433501	7.50000	7.4459
23	bis(2-Chloroethyl)ether	93	3.446	3.446	(0.944)	1313566	7.50000	8.1542
24	2-Chlorophenol	128	3.504	3.504	(0.960)	1163772	7.50000	7.4508
26	1,3-Dichlorobenzene	146	3.617	3.617	(0.991)	1165260	7.50000	7.3257
27	1,4-Dichlorobenzene	146	3.665	3.665	(1.004)	1150996	7.50000	7.3196
28	1,2-Dichlorobenzene	146	3.772	3.772	(1.034)	1122841	7.50000	7.3912
29	Benzyl Alcohol	108	3.724	3.724	(1.021)	776427	7.50000	7.5700
30	2-Methylphenol	108	3.777	3.777	(1.035)	1069667	7.50000	7.5532
31	bis(2-Chloroisopropyl)ether	45	3.809	3.809	(1.044)	1716216	7.50000	7.5405
37	Acetophenone	105	3.916	3.916	(1.073)	1571603	7.50000	7.6309
32	N-Nitroso-di-n-propylamine	70	3.906	3.906	(1.070)	850813	7.50000	7.7313
192	4-Methylphenol	108	3.879	3.879	(1.063)	1134300	7.50000	7.6419
34	Hexachloroethane	117	4.013	4.013	(1.100)	435973	7.50000	7.4176
35	Nitrobenzene	77	4.045	4.045	(0.888)	1169432	7.50000	7.3577
41	Isophorone	82	4.205	4.205	(0.924)	2379370	7.50000	7.4804
42	2-Nitrophenol	139	4.269	4.269	(0.938)	657523	7.50000	7.7284
43	2,4-Dimethylphenol	107	4.259	4.259	(0.935)	1177045	7.50000	7.4078
44	bis(2-Chloroethoxy)methane	93	4.333	4.333	(0.952)	1374979	7.50000	7.4278

46	2,4-Toluenediamene	121	5.371	5.371 (1.180)	630420	7.50000	6.4872
47	1,3,5-Trichlorobenzene	180	4.275	4.275 (0.939)	986534	7.50000	7.2080

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.430	4.430	(0.973)	926961	7.50000	7.4613
49	Benzoic Acid	122	4.339	4.339	(0.953)	1805848	15.0000	14.891
50	1,2,4-Trichlorobenzene	180	4.499	4.499	(0.988)	980070	7.50000	7.2347
51	Naphthalene	128	4.569	4.569	(1.004)	3586631	7.50000	7.2836
52	4-Chloroaniline	127	4.585	4.585	(1.007)	1528419	7.50000	7.1940
56	Hexachlorobutadiene	225	4.633	4.633	(1.018)	516900	7.50000	7.3189
210	Caprolactam	113	4.847	4.847	(1.065)	445727	7.50000	7.9125
57	1,2,3-Trichlorobenzene	180	4.665	4.665	(1.025)	935508	7.50000	7.3094
59	4-Chloro-3-Methylphenol	107	4.906	4.906	(1.078)	1073727	7.50000	7.6748
62	2-Methylnaphthalene	142	5.061	5.061	(1.112)	2026082	7.50000	7.5578
63	1-Methylnaphthalene	142	5.136	5.136	(1.128)	2305407	7.50000	7.4789
64	Hexachlorocyclopentadiene	237	5.162	5.162	(0.887)	559409	7.50000	7.3200
66	2,4,6-Trichlorophenol	196	5.248	5.248	(0.902)	672911	7.50000	7.3635
67	2,4,5-Trichlorophenol	196	5.275	5.275	(0.906)	723000	7.50000	7.3658
211	1,1'-Biphenyl	154	5.387	5.387	(0.926)	2993736	7.50000	7.1550
68	1,2,3,5-Tetrachlorobenzene	216	5.168	5.168	(0.888)	1000606	7.50000	7.1592
70	2-Chloronaphthalene	162	5.419	5.419	(0.931)	2212791	7.50000	7.1195
73	2-Nitroaniline	65	5.473	5.473	(0.940)	690331	7.50000	7.5680
74	1,2,3,4-Tetrachlorobenzene	216	5.387	5.387	(0.926)	914143	7.50000	7.0737
76	Dimethylphthalate	163	5.585	5.585	(0.960)	2643339	7.50000	7.3975
78	2,6-Dinitrotoluene	165	5.639	5.639	(0.969)	620512	7.50000	7.7831
79	Acenaphthylene	152	5.724	5.724	(0.983)	3715542	7.50000	7.2758
80	1,2-Dinitrobenzene	168	5.692	5.692	(0.978)	318749	7.50000	8.0264
81	3-Nitroaniline	138	5.772	5.772	(0.992)	671400	7.50000	7.5294
82	Acenaphthene	153	5.847	5.847	(1.005)	2361662	7.50000	7.1906
83	2,4-Dinitrophenol	184	5.847	5.847	(1.005)	930951	15.0000	15.196
85	4-Nitrophenol	109	5.858	5.858	(1.006)	340411	7.50000	7.8648
86	Dibenzofuran	168	5.970	5.970	(1.026)	3204657	7.50000	7.2632
87	2,4-Dinitrotoluene	165	5.933	5.933	(1.019)	865567	7.50000	7.9408
91	2,3,5,6-Tetrachlorophenol	232	6.013	6.013	(1.033)	647572	7.50000	7.8481
93	Diethylphthalate	149	6.093	6.093	(1.047)	2782618	7.50000	7.5978
94	Fluorene	166	6.222	6.222	(1.069)	2764955	7.50000	7.3746
95	4-Chlorophenyl-phenylether	204	6.200	6.200	(1.065)	1249355	7.50000	7.4811
96	4-Nitroaniline	138	6.222	6.222	(1.069)	730342	7.50000	7.8097
98	4,6-Dinitro-2-methylphenol	198	6.232	6.232	(0.902)	513701	7.50000	7.4114
99	N-Nitrosodiphenylamine	169	6.286	6.286	(0.909)	2038711	7.50000	7.4084
100	1,2-Diphenylhydrazine	77	6.318	6.318	(0.914)	2749538	7.50000	7.3171
106	4-Bromophenyl-phenylether	248	6.564	6.564	(0.950)	740318	7.50000	7.4953
107	Hexachlorobenzene	284	6.623	6.623	(0.958)	714115	7.50000	7.3533
212	Atrazine	200	6.649	6.649	(0.962)	516481	7.50000	7.5363
111	Pentachlorophenol	266	6.756	6.756	(0.978)	1086920	15.0000	15.010
115	Phenanthrene	178	6.933	6.933	(1.003)	4091368	7.50000	7.3378
116	Anthracene	178	6.970	6.970	(1.009)	4158721	7.50000	7.4048
119	Carbazole	167	7.072	7.072	(1.023)	3934282	7.50000	7.5062
120	Di-n-Butylphthalate	149	7.275	7.275	(1.053)	4937911	7.50000	7.7625
123	Fluoranthene	202	7.805	7.805	(1.129)	4328624	7.50000	7.5758
124	Benzidine	184	7.874	7.874	(0.885)	2573151	7.50000	7.3043
125	Pyrene	202	7.981	7.981	(0.897)	4578829	7.50000	7.1688
131	Butylbenzylphthalate	149	8.388	8.388	(0.942)	2231771	7.50000	7.4730
133	3,3'-Dimethoxybenzidine	244	8.794	8.794	(0.988)	894223	7.50000	6.9112
135	3,3'-Dichlorobenzidine	252	8.837	8.837	(0.993)	1649223	7.50000	7.3871
136	Benzo(a)Anthracene	228	8.890	8.890	(0.999)	4379436	7.50000	7.1419

137 Chrysene	228	8.928	8.928 (1.003)	4108507	7.50000	7.1004
138 4,4'-Methylene bis(o-chloroan	231	8.837	8.837 (0.993)	883460	7.50000	7.5508

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.805	8.805	(0.989)	3186787	7.50000	7.4876
140 Di-n-octylphthalate	149	9.399	9.399	(0.899)	5369564	7.50000	7.7316
141 Benzo(b)fluoranthene	252	9.971	9.971	(0.953)	4224394	7.50000	7.4236
142 Benzo(k)fluoranthene	252	10.008	10.008	(0.957)	4549745	7.50000	7.5140
146 Benzo(a)pyrene	252	10.393	10.393	(0.994)	4044534	7.50000	7.4038
149 Indeno(1,2,3-cd)pyrene	276	12.191	12.191	(1.166)	4555032	7.50000	7.4614
150 Dibenz(a,h)anthracene	278	12.212	12.212	(1.168)	3838074	7.50000	7.4684
151 Benzo(g,h,i)perylene	276	12.725	12.725	(1.217)	3801569	7.50000	7.4627
198 1,4-Dioxane	88	1.830	1.830	(0.502)	330117	7.50000	6.3084(M)
$ 154 Nitrobenzene-d5	82	4.034	4.034	(0.886)	1201280	7.50000	7.4657
$ 155 2-Fluorobiphenyl	172	5.312	5.312	(0.913)	2517551	7.50000	7.1131
$ 156 Terphenyl-d14	244	8.056	8.056	(0.905)	2851883	7.50000	7.3276
$ 157 Phenol-d5	99	3.344	3.344	(0.916)	1351959	7.50000	7.4248
$ 158 2-Fluorophenol	112	2.766	2.766	(0.758)	1009217	7.50000	7.3226
$ 159 2,4,6-Tribromophenol	330	6.398	6.398	(1.099)	328333	7.50000	7.9302
$ 186 2-Chlorophenol-d4	132	3.494	3.494	(0.957)	1066372	7.50000	7.4084
$ 187 1,2-Dichlorobenzene-d4	152	3.761	3.761	(1.031)	710939	7.50000	7.3203
M 195 Cresols, total	100				2203967	7.50000	
101 Diphenylamine	169	6.286	6.286	(0.909)	2038711	7.50000	7.4084

QC Flag Legend

M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SH0305.D
Lab Smp Id: l7
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Misc Info:

Calibration Date: 05-MAR-2010
Calibration Time: 12:55
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	224917	112459	449834	243046	8.06
2 Naphthalene-d8	988164	494082	1976328	1064973	7.77
3 Acenaphthene-d10	560713	280357	1121426	613501	9.41
4 Phenanthrene-d10	953385	476693	1906770	1026403	7.66
5 Chrysene-d12	1158460	579230	2316920	1238926	6.95
6 Perylene-d12	1037564	518782	2075128	1107116	6.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.65	3.15	4.15	3.65	0.00
2 Naphthalene-d8	4.55	4.05	5.05	4.55	0.00
3 Acenaphthene-d10	5.82	5.32	6.32	5.82	0.00
4 Phenanthrene-d10	6.91	6.41	7.41	6.91	0.00
5 Chrysene-d12	8.90	8.40	9.40	8.90	0.06
6 Perylene-d12	10.45	9.95	10.95	10.46	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SH0305.D

Page 1

Date : 05-MAR-2010 12:36

Client ID:

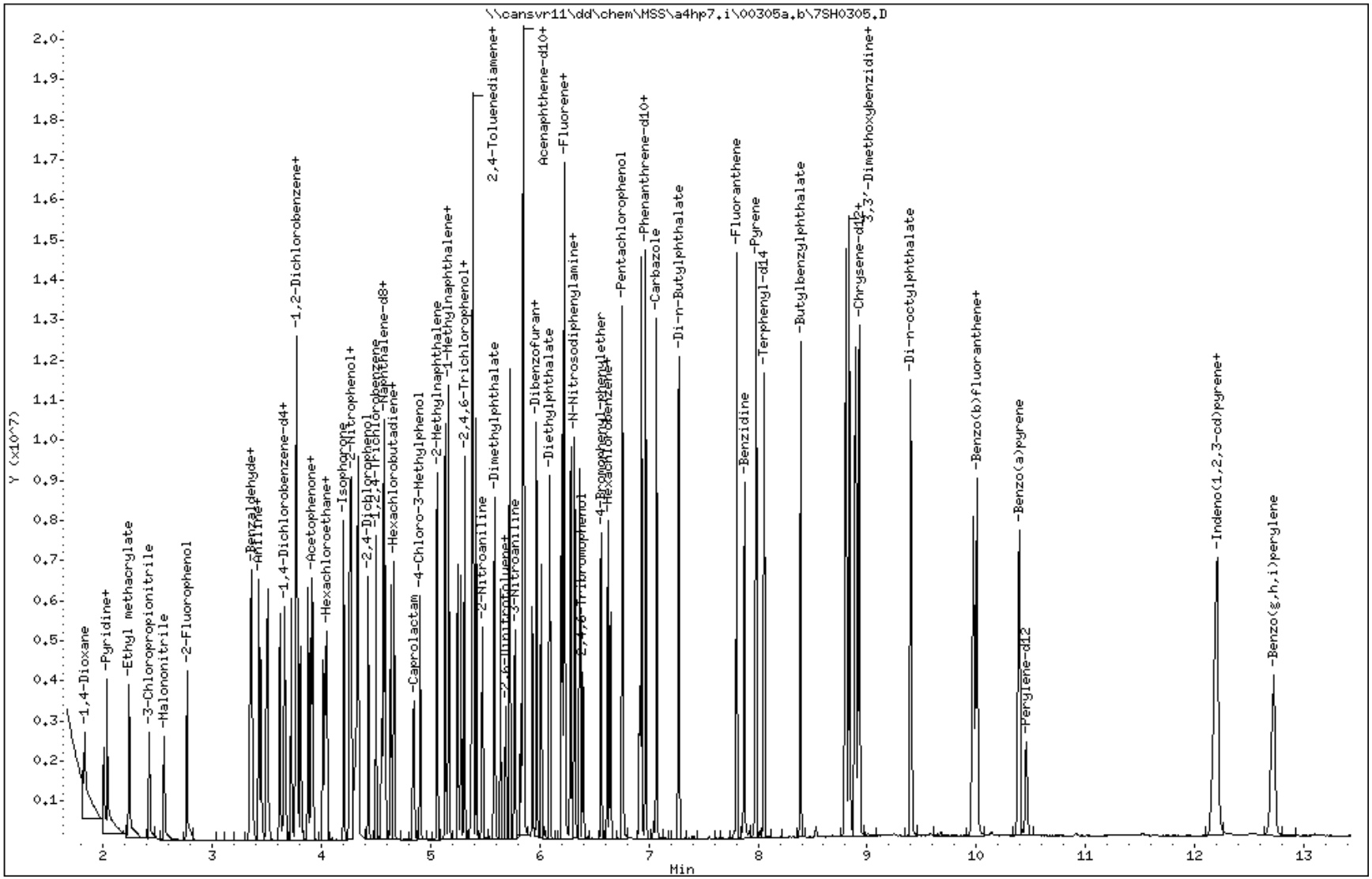
Instrument: a4hp7.i

Sample Info: 17,00305a.b,8270C-625,1-827042d.sub,1,,7

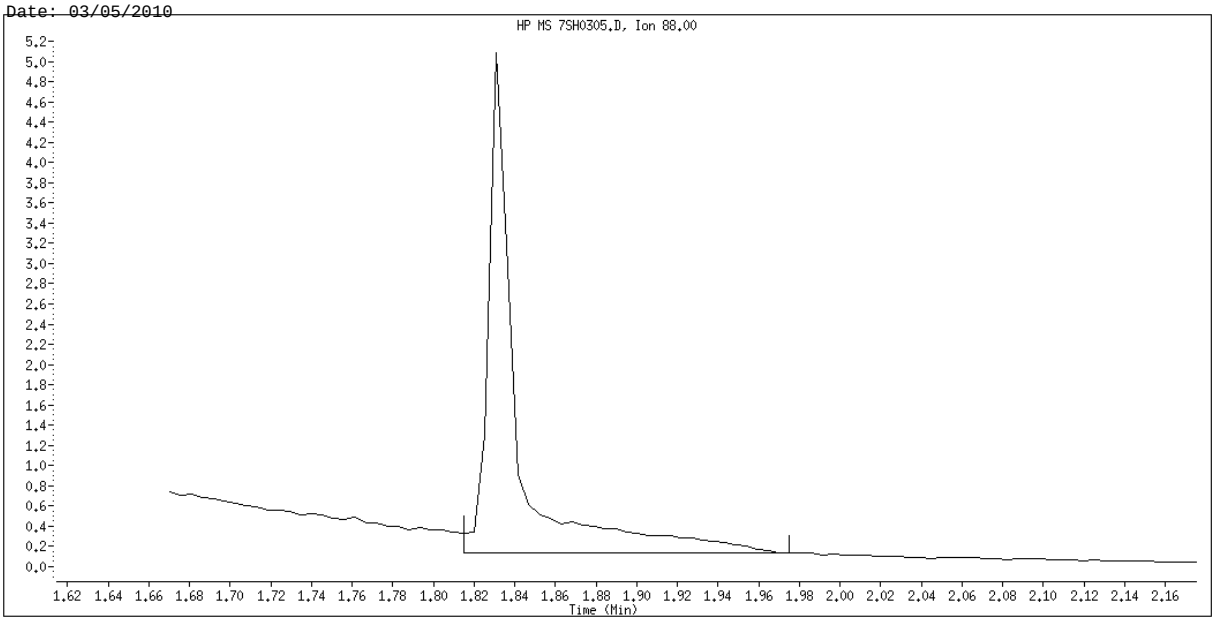
Operator: 001710

Column phase: db5.625

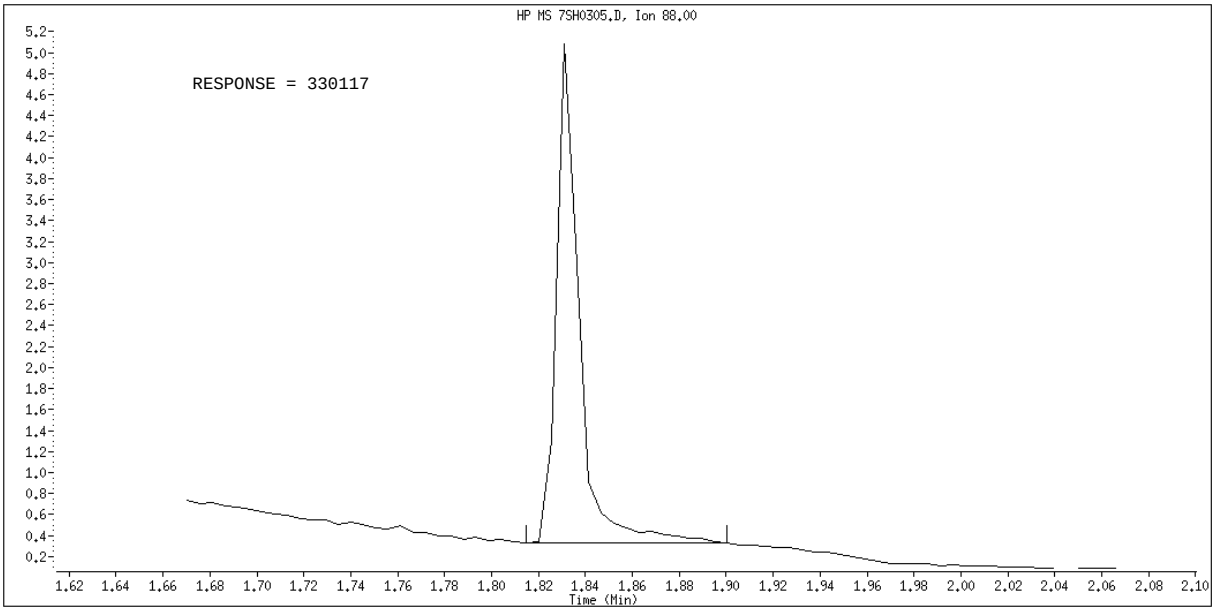
Column diameter: 0.32



Data File Name: 7SH0305.D
Inj. Date and Time: 05-MAR-2010 12:36
Instrument ID: a4hp7.i
Client ID:
Compound Name: 1,4-Dioxane
CAS #: 123-91-1
Report Date: 03/05/2010



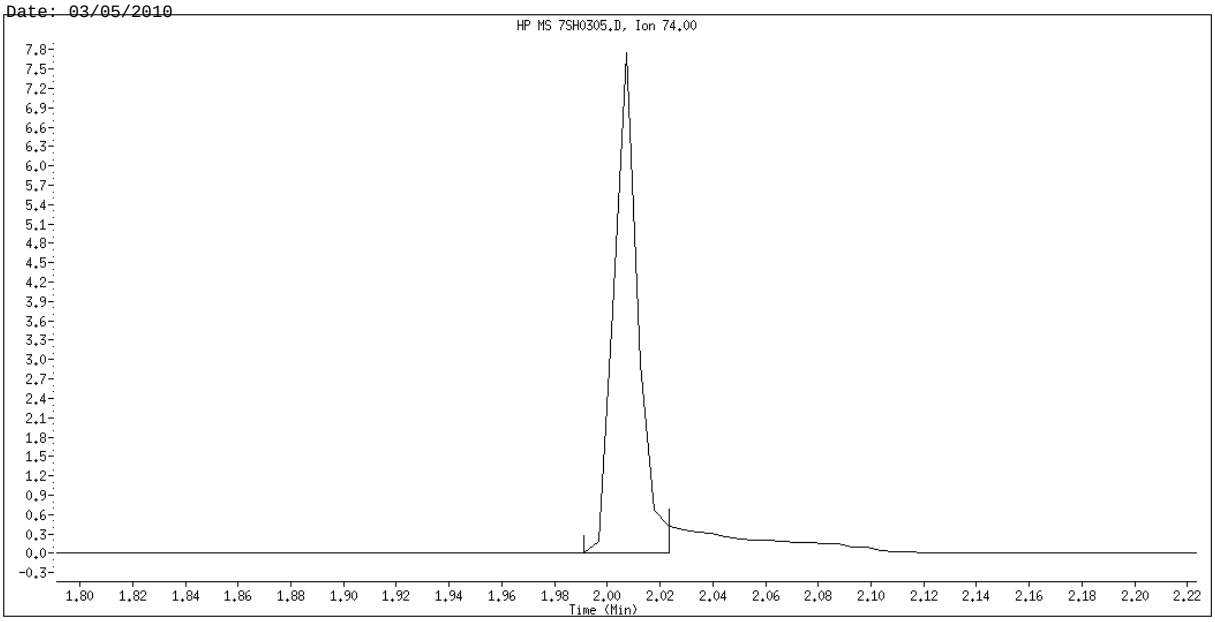
Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Data File Name: 7SH0305.D
Inj. Date and Time: 05-MAR-2010 12:36
Instrument ID: a4hp7.i
Client ID:
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 03/05/2010



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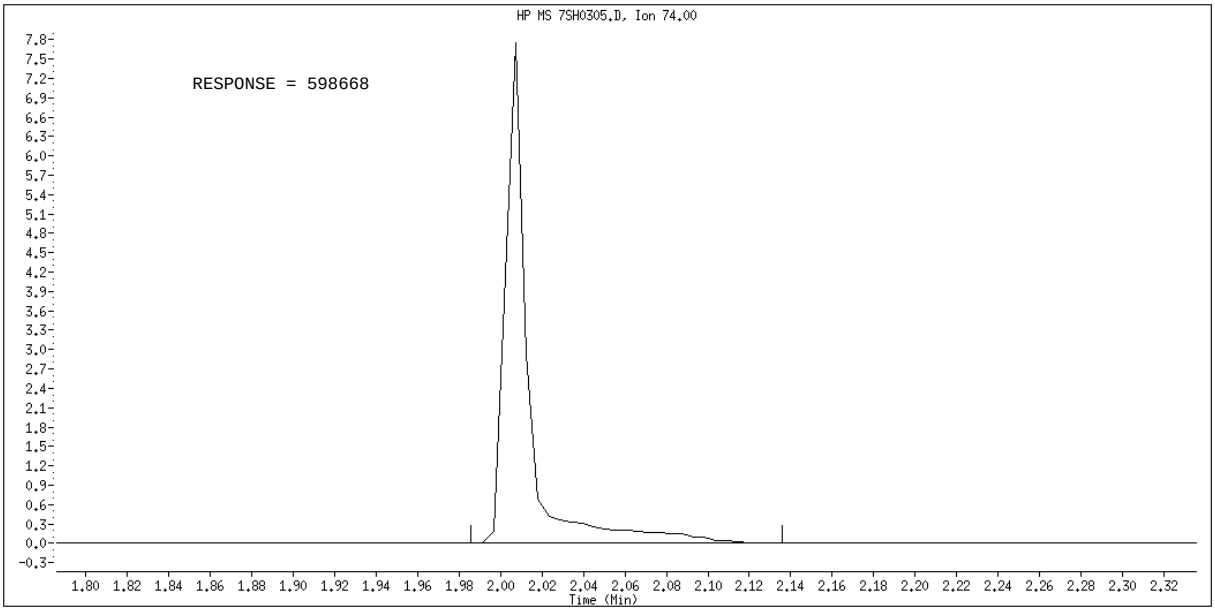
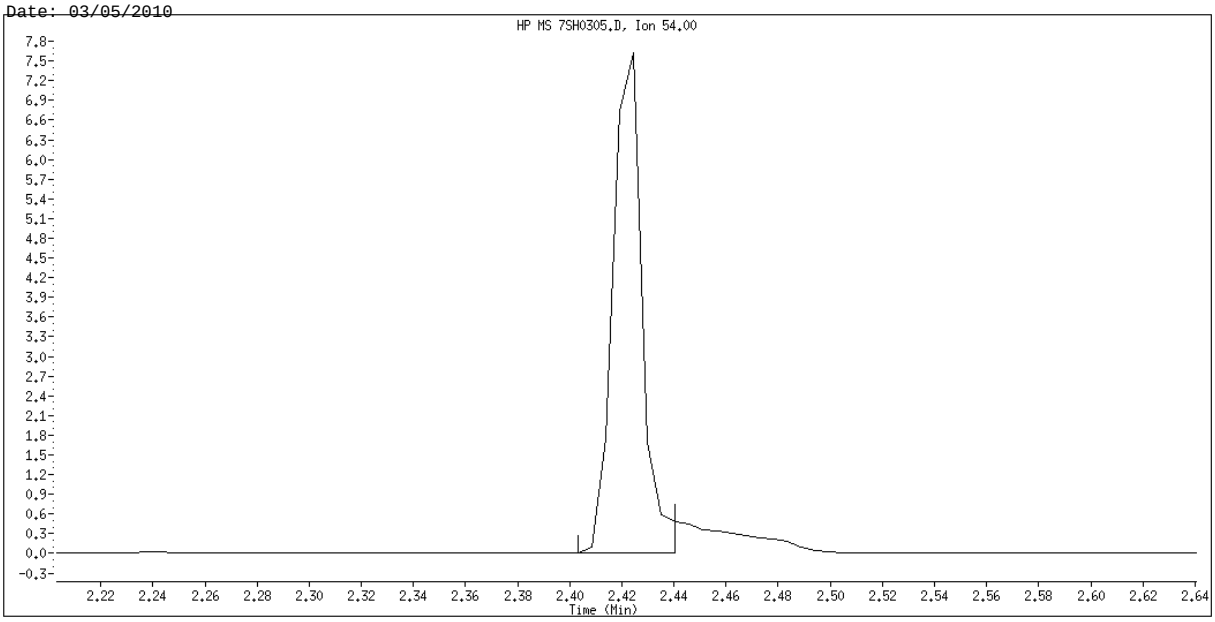


Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Data File Name: 7SH0305.D
Inj. Date and Time: 05-MAR-2010 12:36
Instrument ID: a4hp7.i
Client ID:
Compound Name: 3-Chloropropionitrile
CAS #: 542-76-7
Report Date: 03/05/2010



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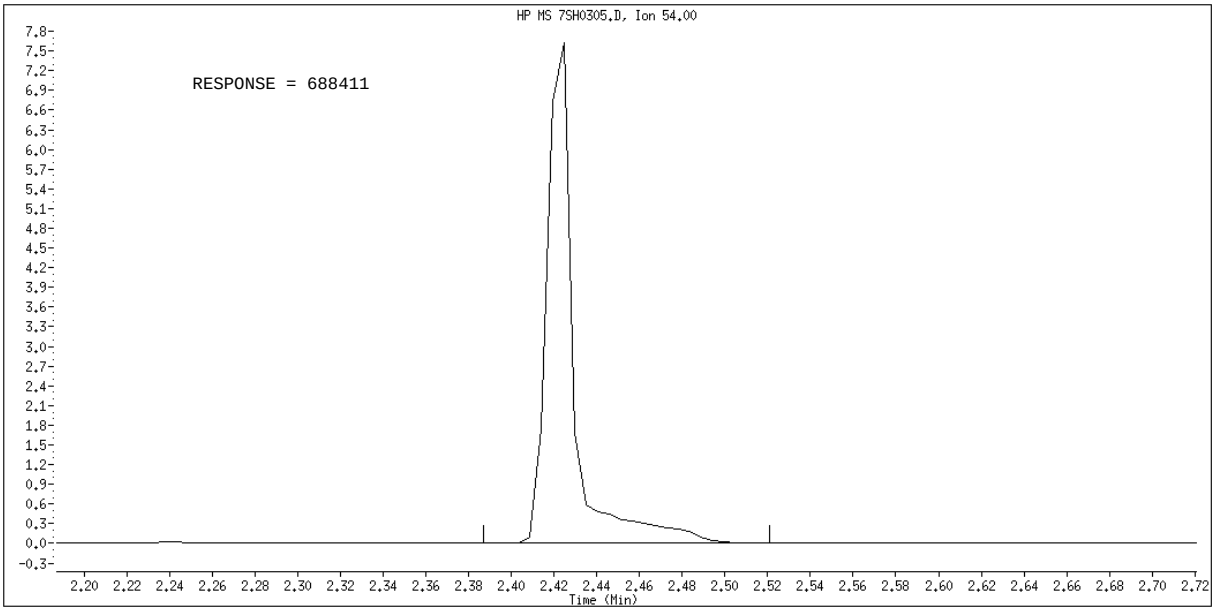
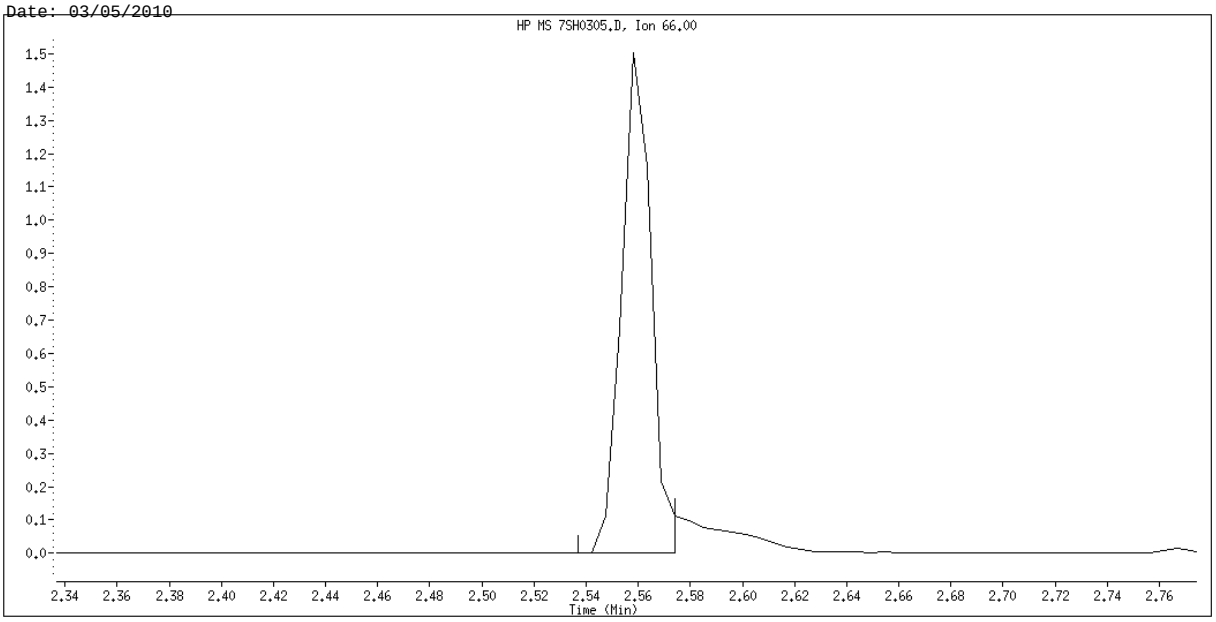


Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Data File Name: 7SH0305.D
Inj. Date and Time: 05-MAR-2010 12:36
Instrument ID: a4hp7.i
Client ID:
Compound Name: Malononitrile
CAS #: 109-77-3
Report Date: 03/05/2010



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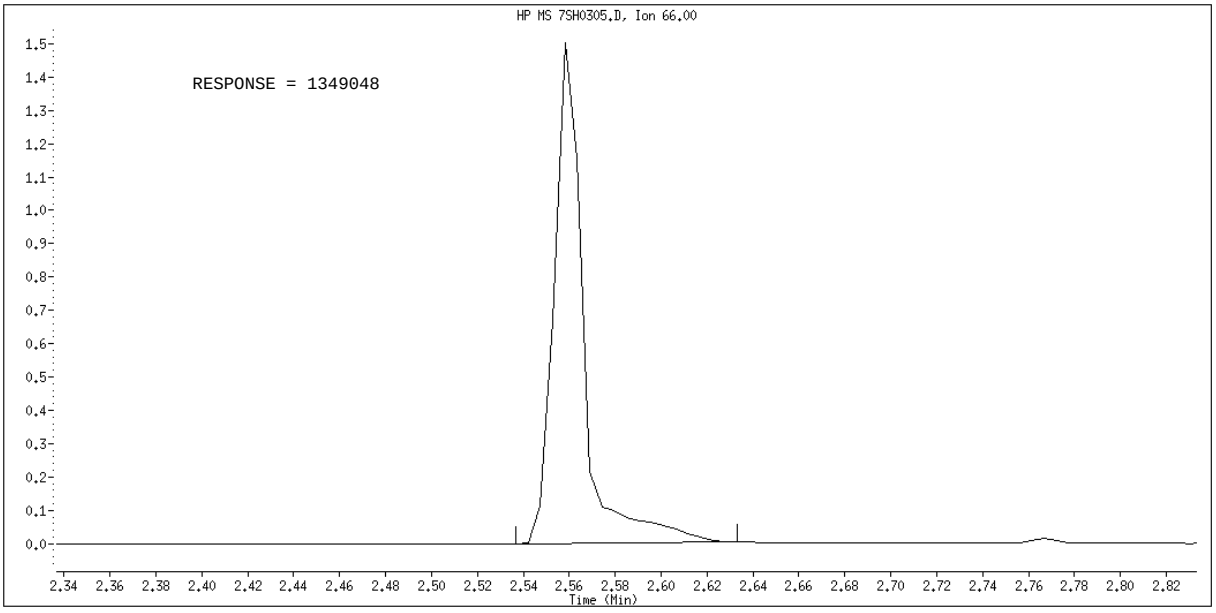


Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHH0305.D
Lab Smp Id: l8
Inj Date : 05-MAR-2010 12:17
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l8,00305a.b,8270C-625,1-827042d.sub,1,,8
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Meth Date : 05-Mar-2010 13:14 a4hp7.i Quant Type: ISTD
Cal Date : 05-MAR-2010 11:57 Cal File: 7SHHH0305.D
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.654	3.654	(1.000)	278091	2.00000	
*	2 Naphthalene-d8	136	4.553	4.553	(1.000)	1172218	2.00000	
*	3 Acenaphthene-d10	164	5.826	5.826	(1.000)	645941	2.00000	
*	4 Phenanthrene-d10	188	6.911	6.911	(1.000)	1049057	2.00000	
*	5 Chrysene-d12	240	8.907	8.907	(1.000)	1229814	2.00000	
*	6 Perylene-d12	264	10.468	10.468	(1.000)	1164115	2.00000	
	9 Pyridine	79	2.044	2.044	(0.559)	1690855	10.0000	10.653
	10 N-Nitrosodimethylamine	74	2.017	2.017	(0.552)	953121	10.0000	10.322
	11 Ethyl methacrylate	69	2.247	2.247	(0.615)	1404107	10.0000	10.081
	12 3-Chloropropionitrile	54	2.429	2.429	(0.665)	1089275	10.0000	10.331
	13 Malononitrile	66	2.568	2.568	(0.703)	2057377	10.0000	9.9749
	209 Benzaldehyde	77	3.365	3.365	(0.921)	907441	10.0000	8.1345
	21 Aniline	93	3.430	3.430	(0.939)	2921672	10.0000	10.869
	22 Phenol	94	3.360	3.360	(0.920)	2330655	10.0000	10.580
	23 bis(2-Chloroethyl)ether	93	3.451	3.451	(0.944)	1938670	10.0000	10.518
	24 2-Chlorophenol	128	3.510	3.510	(0.960)	1901027	10.0000	10.637
	26 1,3-Dichlorobenzene	146	3.617	3.617	(0.990)	1926707	10.0000	10.586
	27 1,4-Dichlorobenzene	146	3.665	3.665	(1.003)	1918404	10.0000	10.662
	28 1,2-Dichlorobenzene	146	3.777	3.777	(1.034)	1848049	10.0000	10.632
	29 Benzyl Alcohol	108	3.729	3.729	(1.020)	1247344	10.0000	10.629
	30 2-Methylphenol	108	3.777	3.777	(1.034)	1759443	10.0000	10.858
	31 bis(2-Chloroisopropyl)ether	45	3.809	3.809	(1.042)	2712787	10.0000	10.417
	37 Acetophenone	105	3.922	3.922	(1.073)	2507821	10.0000	10.642
	32 N-Nitroso-di-n-propylamine	70	3.911	3.911	(1.070)	1347136	10.0000	10.699
	192 4-Methylphenol	108	3.884	3.884	(1.063)	1820050	10.0000	10.717
	34 Hexachloroethane	117	4.013	4.013	(1.098)	725300	10.0000	10.785
	35 Nitrobenzene	77	4.050	4.050	(0.890)	1870554	10.0000	10.692
	41 Isophorone	82	4.210	4.210	(0.925)	3714218	10.0000	10.609
	42 2-Nitrophenol	139	4.269	4.269	(0.938)	1061625	10.0000	11.337
	43 2,4-Dimethylphenol	107	4.264	4.264	(0.937)	1887179	10.0000	10.790
	44 bis(2-Chloroethoxy)methane	93	4.333	4.333	(0.952)	2153846	10.0000	10.571

46	2,4-Toluenediamene	121	5.376	5.376 (1.181)	921758	10.0000	8.6174
47	1,3,5-Trichlorobenzene	180	4.280	4.280 (0.940)	1596960	10.0000	10.600

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.430	4.430	(0.973)	1484669	10.0000	10.857
49	Benzoic Acid	122	4.360	4.360	(0.958)	2951374	20.0000	20.800(H)
50	1,2,4-Trichlorobenzene	180	4.499	4.499	(0.988)	1586608	10.0000	10.640
51	Naphthalene	128	4.569	4.569	(1.004)	5611754	10.0000	10.354
52	4-Chloroaniline	127	4.585	4.585	(1.007)	2512914	10.0000	10.746
56	Hexachlorobutadiene	225	4.638	4.638	(1.019)	840489	10.0000	10.812
210	Caprolactam	113	4.863	4.863	(1.068)	679329	10.0000	10.956
57	1,2,3-Trichlorobenzene	180	4.665	4.665	(1.025)	1486169	10.0000	10.550
59	4-Chloro-3-Methylphenol	107	4.906	4.906	(1.078)	1686507	10.0000	10.952
62	2-Methylnaphthalene	142	5.061	5.061	(1.112)	3148018	10.0000	10.669
63	1-Methylnaphthalene	142	5.136	5.136	(1.128)	3585753	10.0000	10.568
64	Hexachlorocyclopentadiene	237	5.162	5.162	(0.886)	892110	10.0000	10.571
66	2,4,6-Trichlorophenol	196	5.248	5.248	(0.901)	1053215	10.0000	10.946
67	2,4,5-Trichlorophenol	196	5.280	5.280	(0.906)	1121574	10.0000	10.852
211	1,1'-Biphenyl	154	5.392	5.392	(0.926)	4648125	10.0000	10.551
68	1,2,3,5-Tetrachlorobenzene	216	5.168	5.168	(0.887)	1556029	10.0000	10.574
70	2-Chloronaphthalene	162	5.419	5.419	(0.930)	3423073	10.0000	10.460
73	2-Nitroaniline	65	5.478	5.478	(0.940)	1057773	10.0000	11.014
74	1,2,3,4-Tetrachlorobenzene	216	5.387	5.387	(0.925)	1427777	10.0000	10.493
76	Dimethylphthalate	163	5.585	5.585	(0.959)	3951690	10.0000	10.504
78	2,6-Dinitrotoluene	165	5.644	5.644	(0.969)	955114	10.0000	11.378
79	Acenaphthylene	152	5.724	5.724	(0.983)	5753107	10.0000	10.700
80	1,2-Dinitrobenzene	168	5.692	5.692	(0.977)	473814	10.0000	11.332
81	3-Nitroaniline	138	5.772	5.772	(0.991)	1039039	10.0000	11.067
82	Acenaphthene	153	5.852	5.852	(1.005)	3598885	10.0000	10.407
83	2,4-Dinitrophenol	184	5.847	5.847	(1.004)	1345502	20.0000	20.928(Q)
85	4-Nitrophenol	109	5.858	5.858	(1.006)	510206	10.0000	11.196
86	Dibenzofuran	168	5.975	5.975	(1.026)	4893125	10.0000	10.533
87	2,4-Dinitrotoluene	165	5.938	5.938	(1.019)	1297954	10.0000	11.310
91	2,3,5,6-Tetrachlorophenol	232	6.018	6.018	(1.033)	993667	10.0000	11.438
93	Diethylphthalate	149	6.093	6.093	(1.046)	4016988	10.0000	10.417
94	Fluorene	166	6.227	6.227	(1.069)	4148995	10.0000	10.510
95	4-Chlorophenyl-phenylether	204	6.200	6.200	(1.064)	1880780	10.0000	10.696
96	4-Nitroaniline	138	6.227	6.227	(1.069)	1113170	10.0000	11.306
98	4,6-Dinitro-2-methylphenol	198	6.238	6.238	(0.902)	777212	10.0000	10.704
99	N-Nitrosodiphenylamine	169	6.286	6.286	(0.909)	3020985	10.0000	10.741
100	1,2-Diphenylhydrazine	77	6.318	6.318	(0.914)	4059074	10.0000	10.569
106	4-Bromophenyl-phenylether	248	6.564	6.564	(0.950)	1108342	10.0000	10.979
107	Hexachlorobenzene	284	6.623	6.623	(0.958)	1059914	10.0000	10.678
212	Atrazine	200	6.649	6.649	(0.962)	711410	10.0000	10.156
111	Pentachlorophenol	266	6.756	6.756	(0.978)	1575458	20.0000	20.865
115	Phenanthrene	178	6.933	6.933	(1.003)	5936772	10.0000	10.418
116	Anthracene	178	6.970	6.970	(1.009)	6027946	10.0000	10.501
119	Carbazole	167	7.072	7.072	(1.023)	5701082	10.0000	10.642
120	Di-n-Butylphthalate	149	7.275	7.275	(1.053)	6129118	10.0000	9.4270
123	Fluoranthene	202	7.810	7.810	(1.130)	6160930	10.0000	10.550
124	Benzidine	184	7.874	7.874	(0.884)	3839138	10.0000	10.979
125	Pyrene	202	7.987	7.987	(0.897)	6563904	10.0000	10.353
131	Butylbenzylphthalate	149	8.393	8.393	(0.942)	3093801	10.0000	10.436
133	3,3'-Dimethoxybenzidine	244	8.800	8.800	(0.988)	1365434	10.0000	10.631
135	3,3'-Dichlorobenzidine	252	8.848	8.848	(0.993)	2433210	10.0000	10.979
136	Benzo(a)Anthracene	228	8.901	8.901	(0.999)	6294035	10.0000	10.340

137	Chrysene	228	8.933	8.933 (1.003)	6094481	10.0000	10.610
138	4,4'-Methylene bis(o-chloroan	231	8.842	8.842 (0.993)	1284819	10.0000	11.062

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.816	8.816	(0.990)	4424141	10.0000	10.472
140 Di-n-octylphthalate	149	9.409	9.409	(0.899)	7566445	10.0000	10.361
141 Benzo(b)fluoranthene	252	9.987	9.987	(0.954)	6314371	10.0000	10.553
142 Benzo(k)fluoranthene	252	10.019	10.019	(0.957)	7006557	10.0000	11.005
146 Benzo(a)pyrene	252	10.409	10.409	(0.994)	6250619	10.0000	10.882
149 Indeno(1,2,3-cd)pyrene	276	12.212	12.212	(1.167)	7132189	10.0000	11.111
150 Dibenz(a,h)anthracene	278	12.233	12.233	(1.169)	6087014	10.0000	11.265
151 Benzo(g,h,i)perylene	276	12.752	12.752	(1.218)	5849772	10.0000	10.921
198 1,4-Dioxane	88	1.846	1.846	(0.505)	612434	10.0000	10.228
$ 154 Nitrobenzene-d5	82	4.034	4.034	(0.886)	1891645	10.0000	10.681
$ 155 2-Fluorobiphenyl	172	5.312	5.312	(0.912)	3920633	10.0000	10.521
$ 156 Terphenyl-d14	244	8.056	8.056	(0.905)	4059467	10.0000	10.508
$ 157 Phenol-d5	99	3.349	3.349	(0.917)	2228261	10.0000	10.695
$ 158 2-Fluorophenol	112	2.772	2.772	(0.759)	1622729	10.0000	10.290
$ 159 2,4,6-Tribromophenol	330	6.398	6.398	(1.098)	495346	10.0000	11.363
$ 186 2-Chlorophenol-d4	132	3.499	3.499	(0.958)	1757375	10.0000	10.670
$ 187 1,2-Dichlorobenzene-d4	152	3.766	3.766	(1.031)	1166908	10.0000	10.501
M 195 Cresols, total	100				3579493	10.0000	
101 Diphenylamine	169	6.286	6.286	(0.909)	3020985	10.0000	10.741

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SHH0305.D
Lab Smp Id: l8
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Misc Info:

Calibration Date: 05-MAR-2010
Calibration Time: 12:55
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	224917	112459	449834	278091	23.64
2 Naphthalene-d8	988164	494082	1976328	1172218	18.63
3 Acenaphthene-d10	560713	280357	1121426	645941	15.20
4 Phenanthrene-d10	953385	476693	1906770	1049057	10.03
5 Chrysene-d12	1158460	579230	2316920	1229814	6.16
6 Perylene-d12	1037564	518782	2075128	1164115	12.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.65	3.15	4.15	3.65	0.15
2 Naphthalene-d8	4.55	4.05	5.05	4.55	0.00
3 Acenaphthene-d10	5.82	5.32	6.32	5.83	0.09
4 Phenanthrene-d10	6.91	6.41	7.41	6.91	0.00
5 Chrysene-d12	8.90	8.40	9.40	8.91	0.12
6 Perylene-d12	10.45	9.95	10.95	10.47	0.15

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHH0305.D

Page 1

Date : 05-MAR-2010 12:17

Client ID:

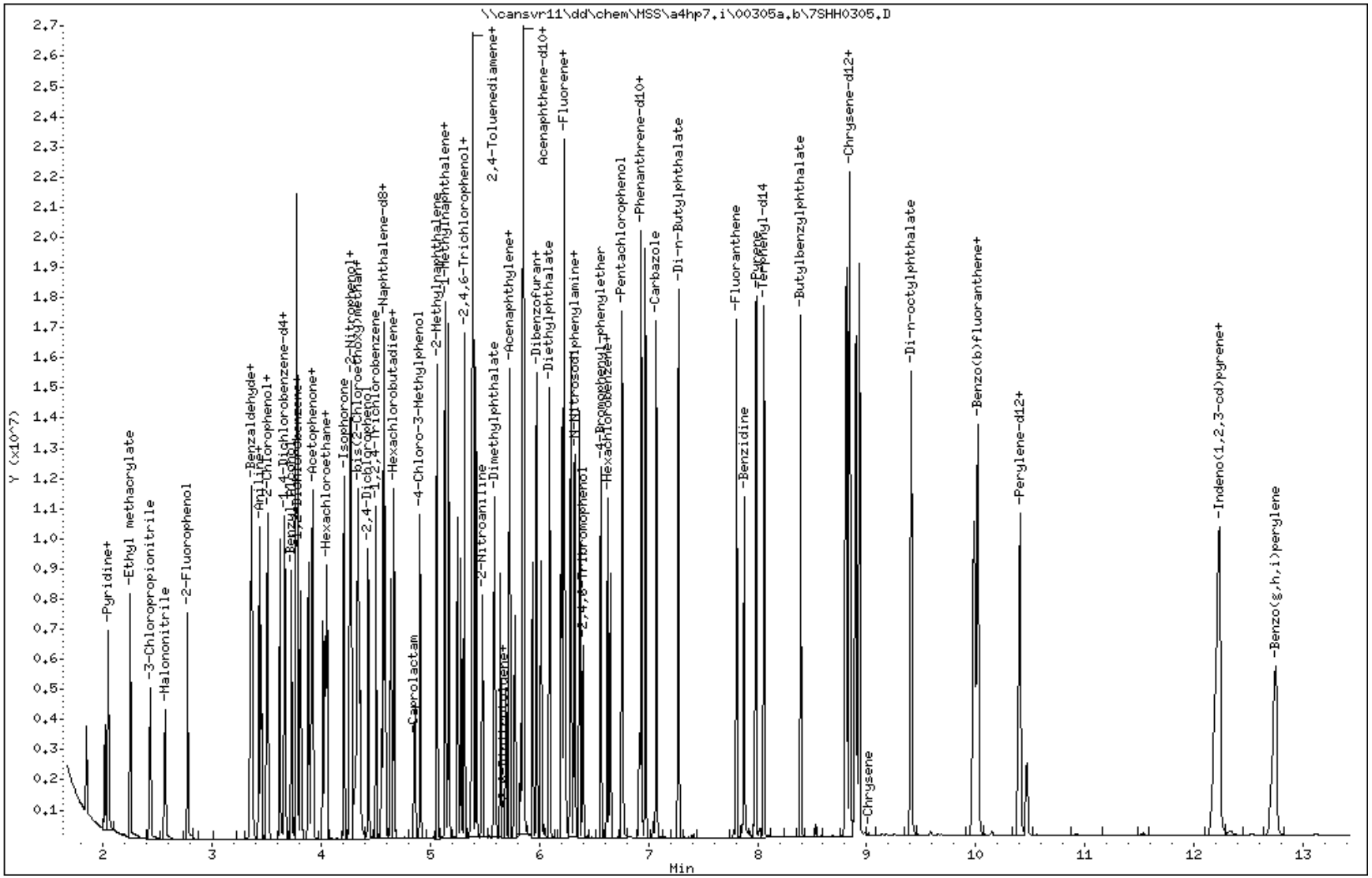
Instrument: a4hp7.i

Sample Info: 18,00305a.b,8270C-625,1-827042d.sub,1,,8

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHHH0305.D
Lab Smp Id: l9
Inj Date : 05-MAR-2010 11:57
Operator : 001710   Inst ID: a4hp7.i
Smp Info : l9,00305a.b,8270C-625,1-827042d.sub,1,,9
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Meth Date : 05-Mar-2010 13:14 a4hp7.i   Quant Type: ISTD
Cal Date : 05-MAR-2010 11:38   Cal File: 7SLL0305.D
Als bottle: 7   Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.654	3.654	(1.000)	143189	2.00000	(Q)
*	2 Naphthalene-d8	136	4.553	4.553	(1.000)	573449	2.00000	
*	3 Acenaphthene-d10	164	5.820	5.820	(1.000)	310082	2.00000	
*	4 Phenanthrene-d10	188	6.911	6.911	(1.000)	500026	2.00000	
*	5 Chrysene-d12	240	8.901	8.901	(1.000)	561573	2.00000	
*	6 Perylene-d12	264	10.457	10.457	(1.000)	490329	2.00000	
	9 Pyridine	79	2.044	2.044	(0.559)	1190035	12.5000	14.562
	10 N-Nitrosodimethylamine	74	2.012	2.012	(0.551)	625975	12.5000	13.166
	11 Ethyl methacrylate	69	2.247	2.247	(0.615)	1015490	12.5000	14.159
	12 3-Chloropropionitrile	54	2.429	2.429	(0.665)	710872	12.5000	13.094
	13 Malononitrile	66	2.563	2.563	(0.701)	1301496	12.5000	12.255
	209 Benzaldehyde	77	Compound Not Detected.					
	21 Aniline	93	3.429	3.429	(0.939)	1746140	12.5000	12.615
	22 Phenol	94	3.360	3.360	(0.920)	1465816	12.5000	12.923
	23 bis(2-Chloroethyl)ether	93	3.445	3.445	(0.943)	1256735	12.5000	13.242
	24 2-Chlorophenol	128	3.510	3.510	(0.960)	1191407	12.5000	12.947
	26 1,3-Dichlorobenzene	146	3.617	3.617	(0.990)	1224845	12.5000	13.070
	27 1,4-Dichlorobenzene	146	3.665	3.665	(1.003)	1212976	12.5000	13.093
	28 1,2-Dichlorobenzene	146	3.777	3.777	(1.034)	1159596	12.5000	12.956
	29 Benzyl Alcohol	108	3.723	3.723	(1.019)	756247	12.5000	12.515
	30 2-Methylphenol	108	3.777	3.777	(1.034)	1057911	12.5000	12.680
	31 bis(2-Chloroisopropyl)ether	45	3.809	3.809	(1.042)	1693559	12.5000	12.630
	37 Acetophenone	105	3.921	3.921	(1.073)	1516505	12.5000	12.498
	32 N-Nitroso-di-n-propylamine	70	3.905	3.905	(1.069)	806436	12.5000	12.438
	192 4-Methylphenol	108	3.879	3.879	(1.061)	1107161	12.5000	12.661
	34 Hexachloroethane	117	4.012	4.012	(1.098)	464915	12.5000	13.426
	35 Nitrobenzene	77	4.050	4.050	(0.890)	1145399	12.5000	13.383
	41 Isophorone	82	4.205	4.205	(0.924)	2207593	12.5000	12.889
	42 2-Nitrophenol	139	4.269	4.269	(0.938)	618198	12.5000	13.494
	43 2,4-Dimethylphenol	107	4.258	4.258	(0.935)	1134457	12.5000	13.260(Q)
	44 bis(2-Chloroethoxy)methane	93	4.333	4.333	(0.952)	1303885	12.5000	13.081

46	2,4-Toluenediamene	121	5.371	5.371 (1.180)	680207	12.5000	12.999
47	1,3,5-Trichlorobenzene	180	4.274	4.274 (0.939)	978797	12.5000	13.281

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.429	4.429	(0.973)	888648	12.5000	13.284
49	Benzoic Acid	122	4.339	4.339	(0.953)	1775257	25.0000	24.546(H)
50	1,2,4-Trichlorobenzene	180	4.499	4.499	(0.988)	957558	12.5000	13.127
51	Naphthalene	128	4.569	4.569	(1.004)	3436854	12.5000	12.962
52	4-Chloroaniline	127	4.585	4.585	(1.007)	1455750	12.5000	12.725
56	Hexachlorobutadiene	225	4.633	4.633	(1.018)	501886	12.5000	13.197
210	Caprolactam	113	4.847	4.847	(1.065)	402062	12.5000	13.255
57	1,2,3-Trichlorobenzene	180	4.665	4.665	(1.025)	896691	12.5000	13.011
59	4-Chloro-3-Methylphenol	107	4.906	4.906	(1.078)	996785	12.5000	13.232
62	2-Methylnaphthalene	142	5.061	5.061	(1.112)	1883113	12.5000	13.046
63	1-Methylnaphthalene	142	5.136	5.136	(1.128)	2160985	12.5000	13.019
64	Hexachlorocyclopentadiene	237	5.162	5.162	(0.887)	505417	12.5000	12.168
66	2,4,6-Trichlorophenol	196	5.248	5.248	(0.902)	614432	12.5000	13.303
67	2,4,5-Trichlorophenol	196	5.275	5.275	(0.906)	648095	12.5000	13.063
211	1,1'-Biphenyl	154	5.387	5.387	(0.926)	2776550	12.5000	13.129
68	1,2,3,5-Tetrachlorobenzene	216	5.168	5.168	(0.888)	933155	12.5000	13.210
70	2-Chloronaphthalene	162	5.419	5.419	(0.931)	2028952	12.5000	12.916
73	2-Nitroaniline	65	5.472	5.472	(0.940)	619095	12.5000	13.428
74	1,2,3,4-Tetrachlorobenzene	216	5.387	5.387	(0.926)	846050	12.5000	12.953
76	Dimethylphthalate	163	5.585	5.585	(0.960)	2339174	12.5000	12.952
78	2,6-Dinitrotoluene	165	5.638	5.638	(0.969)	546689	12.5000	13.567
79	Acenaphthylene	152	5.724	5.724	(0.983)	3363418	12.5000	13.031
80	1,2-Dinitrobenzene	168	5.692	5.692	(0.978)	273459	12.5000	13.624
81	3-Nitroaniline	138	5.772	5.772	(0.992)	602587	12.5000	13.370
82	Acenaphthene	153	5.847	5.847	(1.005)	2147302	12.5000	12.935
83	2,4-Dinitrophenol	184	5.847	5.847	(1.005)	745734	25.0000	24.300(Q)
85	4-Nitrophenol	109	5.852	5.852	(1.006)	295325	12.5000	13.500
86	Dibenzofuran	168	5.970	5.970	(1.026)	2877505	12.5000	12.903
87	2,4-Dinitrotoluene	165	5.932	5.932	(1.019)	747440	12.5000	13.567
91	2,3,5,6-Tetrachlorophenol	232	6.013	6.013	(1.033)	570570	12.5000	13.681
93	Diethylphthalate	149	6.093	6.093	(1.047)	2379102	12.5000	12.852
94	Fluorene	166	6.221	6.221	(1.069)	2454942	12.5000	12.955
95	4-Chlorophenyl-phenylether	204	6.200	6.200	(1.065)	1099368	12.5000	13.024
96	4-Nitroaniline	138	6.216	6.216	(1.068)	648177	12.5000	13.713
98	4,6-Dinitro-2-methylphenol	198	6.232	6.232	(0.902)	418560	12.5000	12.006
99	N-Nitrosodiphenylamine	169	6.285	6.285	(0.909)	1747408	12.5000	13.034
100	1,2-Diphenylhydrazine	77	6.318	6.318	(0.914)	2422808	12.5000	13.235
106	4-Bromophenyl-phenylether	248	6.564	6.564	(0.950)	629516	12.5000	13.083
107	Hexachlorobenzene	284	6.622	6.622	(0.958)	615668	12.5000	13.013
212	Atrazine	200	6.644	6.644	(0.961)	437848	12.5000	13.114
111	Pentachlorophenol	266	6.756	6.756	(0.978)	890145	25.0000	24.446
115	Phenanthrene	178	6.933	6.933	(1.003)	3523174	12.5000	12.970
116	Anthracene	178	6.970	6.970	(1.009)	3567800	12.5000	13.040
119	Carbazole	167	7.072	7.072	(1.023)	3318636	12.5000	12.997
120	Di-n-Butylphthalate	149	7.275	7.275	(1.053)	4100703	12.5000	13.232
123	Fluoranthene	202	7.804	7.804	(1.129)	3619851	12.5000	13.004
124	Benzidine	184	7.874	7.874	(0.885)	2195603	12.5000	13.750
125	Pyrene	202	7.981	7.981	(0.897)	3823061	12.5000	13.205
131	Butylbenzylphthalate	149	8.387	8.387	(0.942)	1784562	12.5000	13.183
133	3,3'-Dimethoxybenzidine	244	8.794	8.794	(0.988)	796033	12.5000	13.573
135	3,3'-Dichlorobenzidine	252	8.837	8.837	(0.993)	1357851	12.5000	13.418
136	Benzo(a)Anthracene	228	8.890	8.890	(0.999)	3585286	12.5000	12.899

137	Chrysene	228	8.922	8.922 (1.002)	3401727	12.5000	12.970
138	4,4'-Methylene bis(o-chloroan	231	8.831	8.831 (0.992)	714331	12.5000	13.469

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.805	8.805	(0.989)	2540082	12.5000	13.167
140	Di-n-octylphthalate	149	9.398	9.398	(0.899)	4294120	12.5000	13.961
141	Benzo(b)fluoranthene	252	9.971	9.971	(0.953)	3436278	12.5000	13.635
142	Benzo(k)fluoranthene	252	10.003	10.003	(0.957)	3663677	12.5000	13.662
146	Benzo(a)pyrene	252	10.393	10.393	(0.994)	3325510	12.5000	13.745
149	Indeno(1,2,3-cd)pyrene	276	12.185	12.185	(1.165)	3736004	12.5000	13.818
150	Dibenz(a,h)anthracene	278	12.206	12.206	(1.167)	3177353	12.5000	13.960
151	Benzo(g,h,i)perylene	276	12.720	12.720	(1.216)	3092448	12.5000	13.707
198	1,4-Dioxane	88	1.846	1.846	(0.505)	475981	12.5000	15.439
$ 154	Nitrobenzene-d5	82	4.034	4.034	(0.886)	1157251	12.5000	13.357
$ 155	2-Fluorobiphenyl	172	5.312	5.312	(0.913)	2311824	12.5000	12.923
$ 156	Terphenyl-d14	244	8.056	8.056	(0.905)	2346642	12.5000	13.302
$ 157	Phenol-d5	99	3.349	3.349	(0.917)	1399347	12.5000	13.044
$ 158	2-Fluorophenol	112	2.771	2.771	(0.759)	1109416	12.5000	13.663
$ 159	2,4,6-Tribromophenol	330	6.398	6.398	(1.099)	281955	12.5000	13.474
$ 186	2-Chlorophenol-d4	132	3.499	3.499	(0.958)	1100232	12.5000	12.974
$ 187	1,2-Dichlorobenzene-d4	152	3.766	3.766	(1.031)	744132	12.5000	13.005
M 195	Cresols, total	100				2165072	12.5000	
101	Diphenylamine	169	6.285	6.285	(0.909)	1747408	12.5000	13.034

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

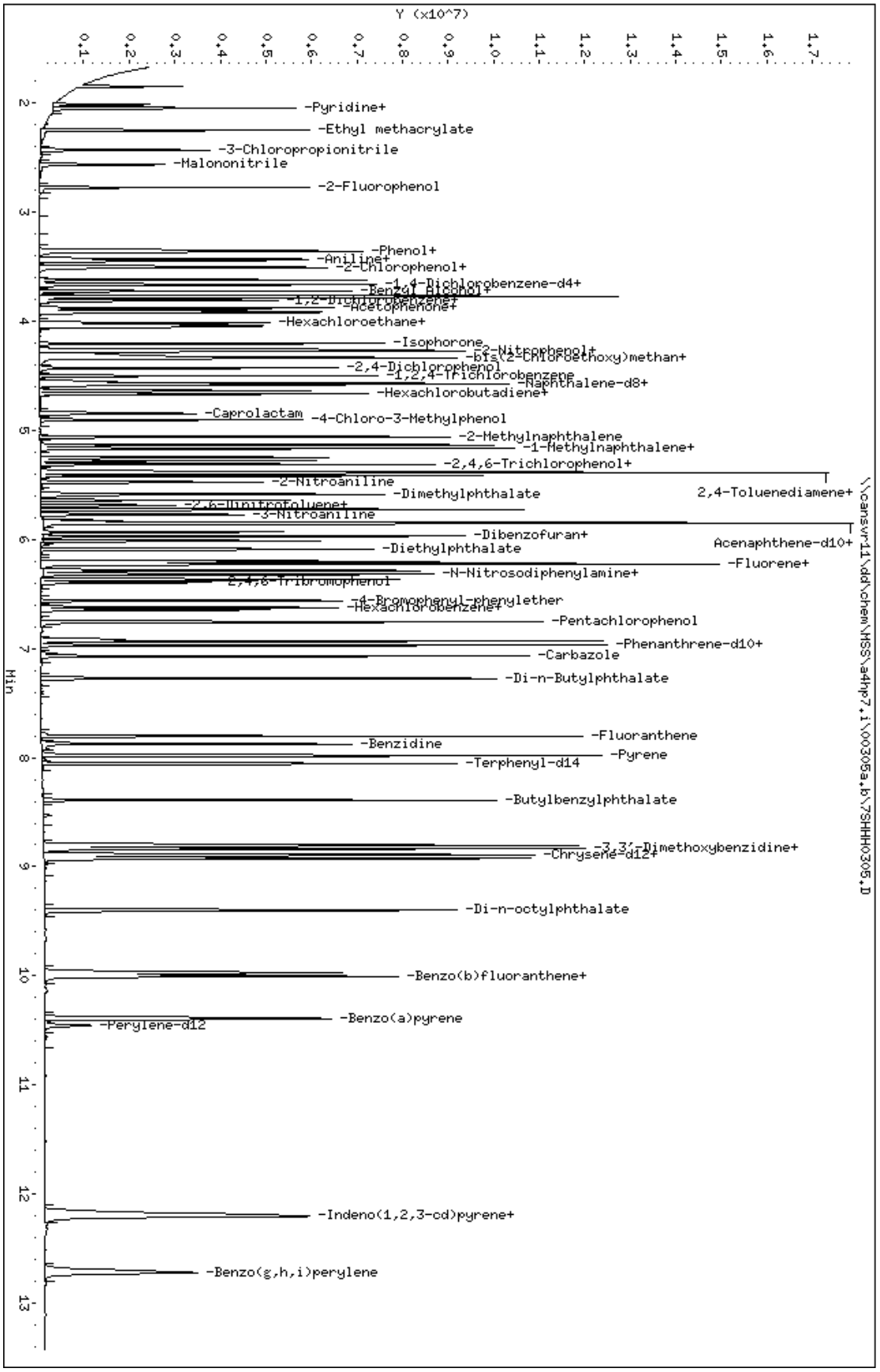
Instrument ID: a4hp7.i
Lab File ID: 7SHHH0305.D
Lab Smp Id: l9
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Misc Info:

Calibration Date: 05-MAR-2010
Calibration Time: 12:55
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	224917	112459	449834	143189	-36.34	
2 Naphthalene-d8	988164	494082	1976328	573449	-41.97	
3 Acenaphthene-d10	560713	280357	1121426	310082	-44.70	
4 Phenanthrene-d10	953385	476693	1906770	500026	-47.55	
5 Chrysene-d12	1158460	579230	2316920	561573	-51.52	<-
6 Perylene-d12	1037564	518782	2075128	490329	-52.74	<-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.65	3.15	4.15	3.65	0.14
2 Naphthalene-d8	4.55	4.05	5.05	4.55	-0.00
3 Acenaphthene-d10	5.82	5.32	6.32	5.82	-0.00
4 Phenanthrene-d10	6.91	6.41	7.41	6.91	-0.00
5 Chrysene-d12	8.90	8.40	9.40	8.90	0.06
6 Perylene-d12	10.45	9.95	10.95	10.46	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



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Date : 05-MAR-2010 11:57
Client ID:
Sample Info: 19,00305a,b,8270C-625,1-827042d,sub,1,,9
Column phase: db5.625

Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SL0305.D
Lab Smp Id: l2
Inj Date : 05-MAR-2010 11:19
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l2,00305a.b,8270C-625,1-827042d.sub,1,,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Meth Date : 05-Mar-2010 13:14 a4hp7.i Quant Type: ISTD
Cal Date : 05-MAR-2010 11:00 Cal File: 7SML0305.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.654	3.654	(1.000)	339822	2.00000	
* 2	Naphthalene-d8	136	4.553	4.553	(1.000)	1417085	2.00000	
* 3	Acenaphthene-d10	164	5.820	5.820	(1.000)	741778	2.00000	
* 4	Phenanthrene-d10	188	6.911	6.911	(1.000)	1183577	2.00000	
* 5	Chrysene-d12	240	8.901	8.901	(1.000)	1324053	2.00000	
* 6	Perylene-d12	264	10.463	10.463	(1.000)	1219438	2.00000	
9	Pyridine	79	2.055	2.055	(0.562)	49315	0.25000	0.25427(Q)
10	N-Nitrosodimethylamine	74	2.012	2.012	(0.551)	28044	0.25000	0.24855
11	Ethyl methacrylate	69	2.247	2.247	(0.615)	41340	0.25000	0.24288
12	3-Chloropropionitrile	54	2.424	2.424	(0.663)	32843	0.25000	0.25490
13	Malononitrile	66	2.557	2.557	(0.700)	65756	0.25000	0.26089
209	Benzaldehyde	77	3.360	3.360	(0.919)	35954	0.25000	0.26375
21	Aniline	93	3.424	3.424	(0.937)	82511	0.25000	0.25118
22	Phenol	94	3.354	3.354	(0.918)	66562	0.25000	0.24728
23	bis(2-Chloroethyl)ether	93	3.445	3.445	(0.943)	53939	0.25000	0.23948
24	2-Chlorophenol	128	3.504	3.504	(0.959)	53154	0.25000	0.24339
26	1,3-Dichlorobenzene	146	3.616	3.616	(0.990)	56716	0.25000	0.25502
27	1,4-Dichlorobenzene	146	3.665	3.665	(1.003)	55104	0.25000	0.25063
28	1,2-Dichlorobenzene	146	3.772	3.772	(1.032)	52255	0.25000	0.24601
29	Benzyl Alcohol	108	3.718	3.718	(1.018)	36187	0.25000	0.25234
30	2-Methylphenol	108	3.772	3.772	(1.032)	49311	0.25000	0.24904
31	bis(2-Chloroisopropyl)ether	45	3.804	3.804	(1.041)	80053	0.25000	0.25156
37	Acetophenone	105	3.916	3.916	(1.072)	70858	0.25000	0.24607
32	N-Nitroso-di-n-propylamine	70	3.895	3.895	(1.066)	37566	0.25000	0.24415
192	4-Methylphenol	108	3.873	3.873	(1.060)	50975	0.25000	0.24562
34	Hexachloroethane	117	4.012	4.012	(1.098)	19717	0.25000	0.23993
35	Nitrobenzene	77	4.044	4.044	(0.888)	52709	0.25000	0.24923
41	Isophorone	82	4.199	4.199	(0.922)	105168	0.25000	0.24848
42	2-Nitrophenol	139	4.264	4.264	(0.937)	25230	0.25000	0.22286
43	2,4-Dimethylphenol	107	4.253	4.253	(0.934)	51829	0.25000	0.24514(Q)
44	bis(2-Chloroethoxy)methane	93	4.328	4.328	(0.951)	60424	0.25000	0.24531

46	2,4-Toluenediamene	121	5.365	5.365 (1.179)	36144	0.25000	0.27952
47	1,3,5-Trichlorobenzene	180	4.274	4.274 (0.939)	45221	0.25000	0.24830

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.424	4.424	(0.972)	40198	0.25000	0.24316
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.499	4.499	(0.988)	45849	0.25000	0.25435
51	Naphthalene	128	4.563	4.563	(1.002)	163681	0.25000	0.24980
52	4-Chloroaniline	127	4.579	4.579	(1.006)	71930	0.25000	0.25444
56	Hexachlorobutadiene	225	4.633	4.633	(1.018)	22904	0.25000	0.24372
210	Caprolactam	113	4.809	4.809	(1.056)	16883	0.25000	0.22524
57	1,2,3-Trichlorobenzene	180	4.665	4.665	(1.025)	43833	0.25000	0.25738
59	4-Chloro-3-Methylphenol	107	4.895	4.895	(1.075)	42948	0.25000	0.23070
62	2-Methylnaphthalene	142	5.055	5.055	(1.110)	86159	0.25000	0.24154
63	1-Methylnaphthalene	142	5.130	5.130	(1.127)	102405	0.25000	0.24966
64	Hexachlorocyclopentadiene	237	5.162	5.162	(0.887)	15437	0.25000	0.28855
66	2,4,6-Trichlorophenol	196	5.242	5.242	(0.901)	25770	0.25000	0.23323
67	2,4,5-Trichlorophenol	196	5.269	5.269	(0.905)	28885	0.25000	0.24338
211	1,1'-Biphenyl	154	5.387	5.387	(0.926)	126671	0.25000	0.25039
68	1,2,3,5-Tetrachlorobenzene	216	5.162	5.162	(0.887)	41650	0.25000	0.24646
70	2-Chloronaphthalene	162	5.414	5.414	(0.930)	94208	0.25000	0.25069
73	2-Nitroaniline	65	5.467	5.467	(0.939)	25154	0.25000	0.22807
74	1,2,3,4-Tetrachlorobenzene	216	5.382	5.382	(0.925)	39434	0.25000	0.25237
76	Dimethylphthalate	163	5.579	5.579	(0.959)	106875	0.25000	0.24737
78	2,6-Dinitrotoluene	165	5.633	5.633	(0.968)	20466	0.25000	0.21231
79	Acenaphthylene	152	5.724	5.724	(0.983)	150882	0.25000	0.24436
80	1,2-Dinitrobenzene	168	5.681	5.681	(0.976)	10341	0.25000	0.21537
81	3-Nitroaniline	138	5.767	5.767	(0.991)	23899	0.25000	0.22166
82	Acenaphthene	153	5.847	5.847	(1.005)	98409	0.25000	0.24781
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.970	5.970	(1.026)	133679	0.25000	0.25058
87	2,4-Dinitrotoluene	165	5.927	5.927	(1.018)	27091	0.25000	0.20556
91	2,3,5,6-Tetrachlorophenol	232	6.013	6.013	(1.033)	21214	0.25000	0.21264
93	Diethylphthalate	149	6.088	6.088	(1.046)	109031	0.25000	0.24622
94	Fluorene	166	6.221	6.221	(1.069)	111505	0.25000	0.24597
95	4-Chlorophenyl-phenylether	204	6.200	6.200	(1.065)	49506	0.25000	0.24518
96	4-Nitroaniline	138	6.211	6.211	(1.067)	24769	0.25000	0.21906
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	6.280	6.280	(0.909)	77228	0.25000	0.24337
100	1,2-Diphenylhydrazine	77	6.318	6.318	(0.914)	105706	0.25000	0.24395
106	4-Bromophenyl-phenylether	248	6.558	6.558	(0.949)	27018	0.25000	0.23722
107	Hexachlorobenzene	284	6.617	6.617	(0.957)	26421	0.25000	0.23593
212	Atrazine	200	6.644	6.644	(0.961)	18761	0.25000	0.23740
111	Pentachlorophenol	266	6.756	6.756	(0.978)	29066	0.50000	0.56267
115	Phenanthrene	178	6.927	6.927	(1.002)	157935	0.25000	0.24564
116	Anthracene	178	6.965	6.965	(1.008)	158599	0.25000	0.24489
119	Carbazole	167	7.066	7.066	(1.022)	147712	0.25000	0.24439
120	Di-n-Butylphthalate	149	7.270	7.270	(1.052)	180436	0.25000	0.24598
123	Fluoranthene	202	7.799	7.799	(1.128)	161686	0.25000	0.24540
124	Benzidine	184	7.869	7.869	(0.884)	77811	0.25000	0.20668
125	Pyrene	202	7.976	7.976	(0.896)	173794	0.25000	0.25460
131	Butylbenzylphthalate	149	8.393	8.393	(0.943)	79255	0.25000	0.24832
133	3,3'-Dimethoxybenzidine	244	8.794	8.794	(0.988)	31316	0.25000	0.22647
135	3,3'-Dichlorobenzidine	252	8.837	8.837	(0.993)	55377	0.25000	0.23209
136	Benzo(a)Anthracene	228	8.890	8.890	(0.999)	163068	0.25000	0.24883

137 Chrysene	228	8.922	8.922 (1.002)	158195	0.25000	0.25582
138 4,4'-Methylene bis(o-chloroan	231	8.831	8.831 (0.992)	30121	0.25000	0.24089

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.810	8.810	(0.990)	112311	0.25000	0.24692
140 Di-n-octylphthalate	149	9.404	9.404	(0.899)	174581	0.25000	0.22822
141 Benzo(b)fluoranthene	252	9.965	9.965	(0.952)	145312	0.25000	0.23184
142 Benzo(k)fluoranthene	252	9.997	9.997	(0.956)	160310	0.25000	0.24037
146 Benzo(a)pyrene	252	10.388	10.388	(0.993)	142927	0.25000	0.23754
149 Indeno(1,2,3-cd)pyrene	276	12.169	12.169	(1.163)	159015	0.25000	0.23648
150 Dibenz(a,h)anthracene	278	12.185	12.185	(1.165)	127295	0.25000	0.22488
151 Benzo(g,h,i)perylene	276	12.698	12.698	(1.214)	132782	0.25000	0.23665
198 1,4-Dioxane	88	1.846	1.846	(0.505)	18632	0.25000	0.25465(M)
$ 154 Nitrobenzene-d5	82	4.028	4.028	(0.885)	52629	0.25000	0.24581
$ 155 2-Fluorobiphenyl	172	5.307	5.307	(0.912)	106543	0.25000	0.24897
$ 156 Terphenyl-d14	244	8.056	8.056	(0.905)	103194	0.25000	0.24810
$ 157 Phenol-d5	99	3.344	3.344	(0.915)	62151	0.25000	0.24412
$ 158 2-Fluorophenol	112	2.771	2.771	(0.759)	46305	0.25000	0.24030
$ 159 2,4,6-Tribromophenol	330	6.392	6.392	(1.098)	11807	0.25000	0.23586
$ 186 2-Chlorophenol-d4	132	3.493	3.493	(0.956)	49433	0.25000	0.24562
$ 187 1,2-Dichlorobenzene-d4	152	3.761	3.761	(1.029)	33728	0.25000	0.24838
M 195 Cresols, total	100				100286	0.25000	
101 Diphenylamine	169	6.280	6.280	(0.909)	77228	0.25000	0.24337

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SL0305.D
Lab Smp Id: l2
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Misc Info:

Calibration Date: 05-MAR-2010
Calibration Time: 12:55
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	224917	112459	449834	339822	51.09
2 Naphthalene-d8	988164	494082	1976328	1417085	43.41
3 Acenaphthene-d10	560713	280357	1121426	741778	32.29
4 Phenanthrene-d10	953385	476693	1906770	1183577	24.14
5 Chrysene-d12	1158460	579230	2316920	1324053	14.29
6 Perylene-d12	1037564	518782	2075128	1219438	17.53

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.65	3.15	4.15	3.65	0.14
2 Naphthalene-d8	4.55	4.05	5.05	4.55	-0.00
3 Acenaphthene-d10	5.82	5.32	6.32	5.82	-0.00
4 Phenanthrene-d10	6.91	6.41	7.41	6.91	-0.00
5 Chrysene-d12	8.90	8.40	9.40	8.90	0.06
6 Perylene-d12	10.45	9.95	10.95	10.46	0.10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SL0305.D

Page 1

Date : 05-MAR-2010 11:19

Client ID:

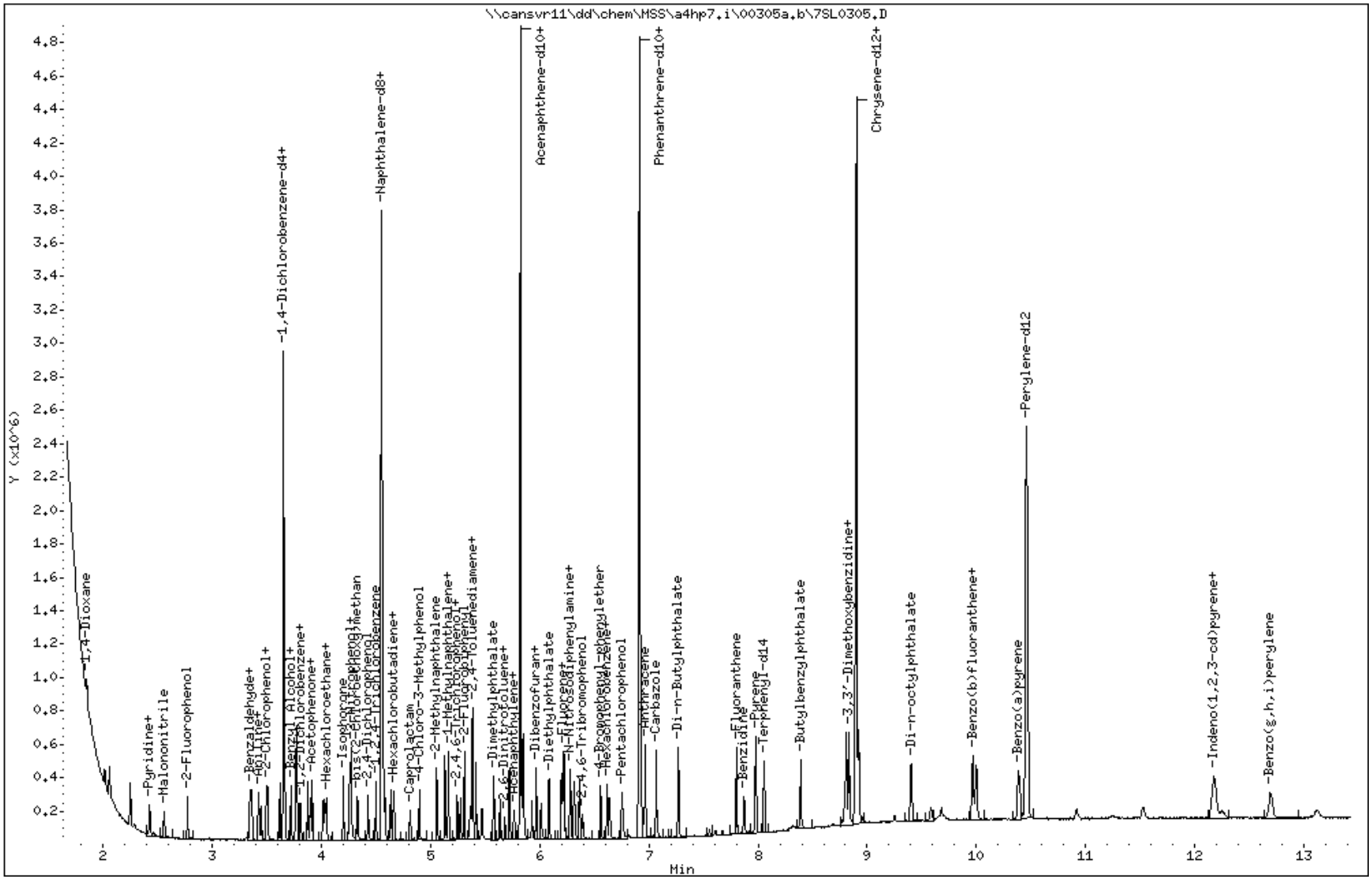
Instrument: a4hp7.i

Sample Info: l2,00305a.b,8270C-625,1-827042d.sub,1,,2

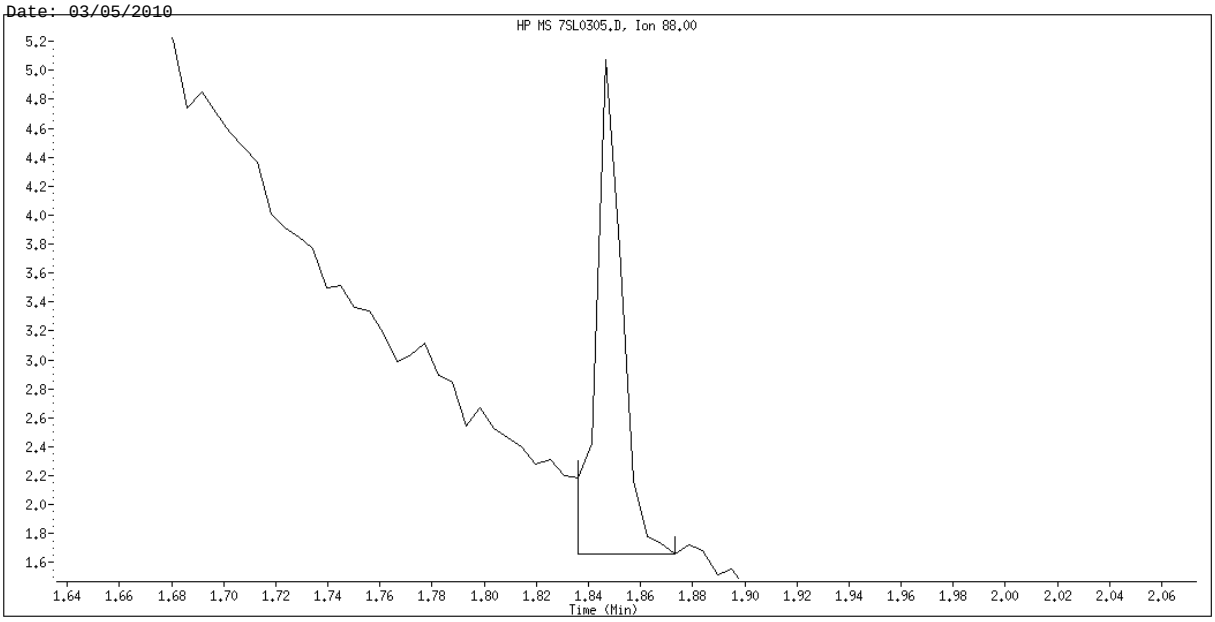
Operator: 001710

Column phase: db5.625

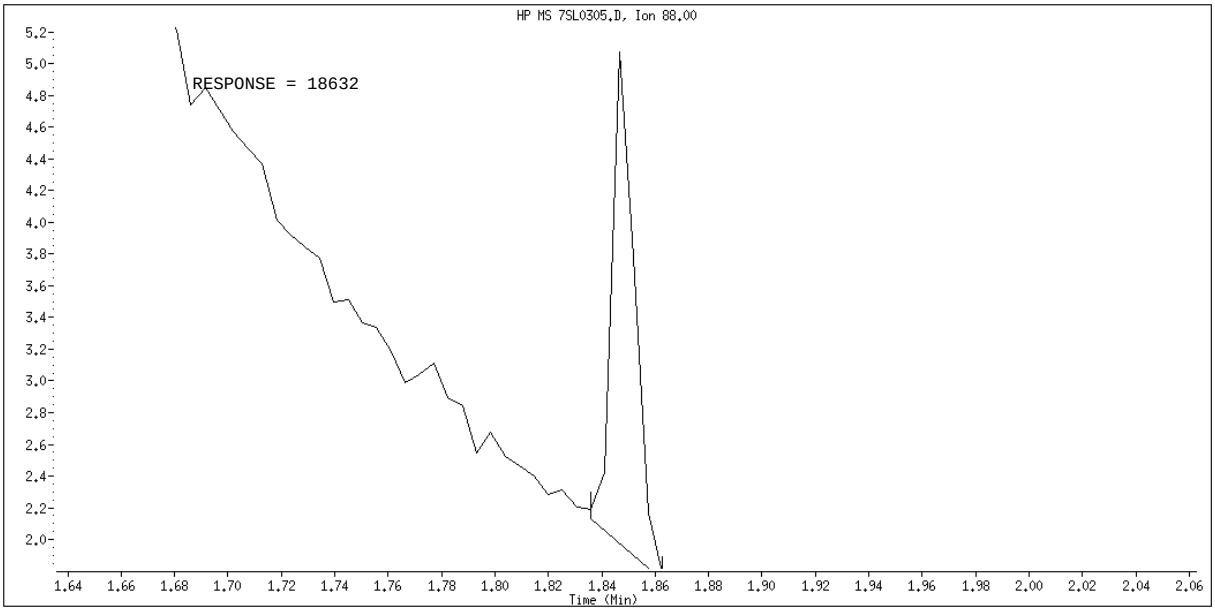
Column diameter: 0.32



Data File Name: 7SL0305.D
Inj. Date and Time: 05-MAR-2010 11:19
Instrument ID: a4hp7.i
Client ID:
Compound Name: 1,4-Dioxane
CAS #: 123-91-1
Report Date: 03/05/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SLL0305.D
Lab Smp Id: l1
Inj Date : 05-MAR-2010 11:38
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l1,00305a.b,8270C-625,pah.sub,1,,1
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Meth Date : 05-Mar-2010 13:14 a4hp7.i Quant Type: ISTD
Cal Date : 05-MAR-2010 11:19 Cal File: 7SL0305.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.654	3.654	(1.000)	312266	2.00000	
* 2	Naphthalene-d8	136	4.547	4.547	(1.000)	1285570	2.00000	
* 3	Acenaphthene-d10	164	5.820	5.820	(1.000)	663178	2.00000	
* 4	Phenanthrene-d10	188	6.911	6.911	(1.000)	1045620	2.00000	
* 5	Chrysene-d12	240	8.896	8.896	(1.000)	1170914	2.00000	
* 6	Perylene-d12	264	10.458	10.458	(1.000)	1062800	2.00000	
23	bis(2-Chloroethyl)ether	93	3.445	3.445	(0.943)	9681	0.05000	0.046775
35	Nitrobenzene	77	4.045	4.045	(0.889)	9387	0.05000	0.048926
51	Naphthalene	128	4.563	4.563	(1.004)	30680	0.05000	0.051613
56	Hexachlorobutadiene	225	4.633	4.633	(1.019)	4555	0.05000	0.053428
62	2-Methylnaphthalene	142	5.055	5.055	(1.112)	16066	0.05000	0.049647
63	1-Methylnaphthalene	142	5.130	5.130	(1.128)	18578	0.05000	0.049926
70	2-Chloronaphthalene	162	5.414	5.414	(0.930)	17924	0.05000	0.053350
79	Acenaphthylene	152	5.724	5.724	(0.983)	27634	0.05000	0.050060
82	Acenaphthene	153	5.847	5.847	(1.005)	18710	0.05000	0.052699
86	Dibenzofuran	168	5.970	5.970	(1.026)	24288	0.05000	0.050924
94	Fluorene	166	6.216	6.216	(1.068)	20474	0.05000	0.050517
107	Hexachlorobenzene	284	6.617	6.617	(0.957)	5274	0.05000	0.053309
111	Pentachlorophenol	266	6.756	6.756	(0.978)	3415	0.10000	0.25398
115	Phenanthrene	178	6.927	6.927	(1.002)	29618	0.05000	0.052143
116	Anthracene	178	6.965	6.965	(1.008)	29348	0.05000	0.051295
123	Fluoranthene	202	7.799	7.799	(1.128)	28986	0.05000	0.049798
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.976	7.976	(0.897)	30851	0.05000	0.051107
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	8.890	8.890	(0.999)	32970	0.05000	0.056890
137	Chrysene	228	8.917	8.917	(1.002)	27828	0.05000	0.050886
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	9.965	9.965	(0.953)	28240	0.05000	0.051696
142	Benzo(k)fluoranthene	252	9.998	9.998	(0.956)	28216	0.05000	0.048542
146	Benzo(a)pyrene	252	10.383	10.383	(0.993)	26070	0.05000	0.049713

149	Indeno(1,2,3-cd)pyrene	276	12.169	12.169 (1.164)	27256	0.05000	0.046508
150	Dibenz(a,h)anthracene	278	12.185	12.185 (1.165)	22969	0.05000	0.046558

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
151 Benzo(g,h,i)perylene	276	12.693	12.693	(1.214)	23917	0.05000	0.048908
$ 154 Nitrobenzene-d5	82	4.029	4.029	(0.886)	9350	0.05000	0.048137
$ 155 2-Fluorobiphenyl	172	5.307	5.307	(0.912)	20172	0.05000	0.052725
$ 156 Terphenyl-d14	244	8.051	8.051	(0.905)	18590	0.05000	0.050539
$ 157 Phenol-d5	99	3.344	3.344	(0.915)	11853	0.05000	0.050666
$ 158 2-Fluorophenol	112	2.772	2.772	(0.759)	9248	0.05000	0.052227
$ 159 2,4,6-Tribromophenol	330	Compound Not Detected.					

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SLL0305.D
Lab Smp Id: l1
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Misc Info:

Calibration Date: 05-MAR-2010
Calibration Time: 12:55
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	224917	112459	449834	312266	38.84
2 Naphthalene-d8	988164	494082	1976328	1285570	30.10
3 Acenaphthene-d10	560713	280357	1121426	663178	18.27
4 Phenanthrene-d10	953385	476693	1906770	1045620	9.67
5 Chrysene-d12	1158460	579230	2316920	1170914	1.08
6 Perylene-d12	1037564	518782	2075128	1062800	2.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.65	3.15	4.15	3.65	0.15
2 Naphthalene-d8	4.55	4.05	5.05	4.55	-0.12
3 Acenaphthene-d10	5.82	5.32	6.32	5.82	-0.00
4 Phenanthrene-d10	6.91	6.41	7.41	6.91	-0.00
5 Chrysene-d12	8.90	8.40	9.40	8.90	-0.00
6 Perylene-d12	10.45	9.95	10.95	10.46	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SLL0305.D

Page 1

Date : 05-MAR-2010 11:38

Client ID:

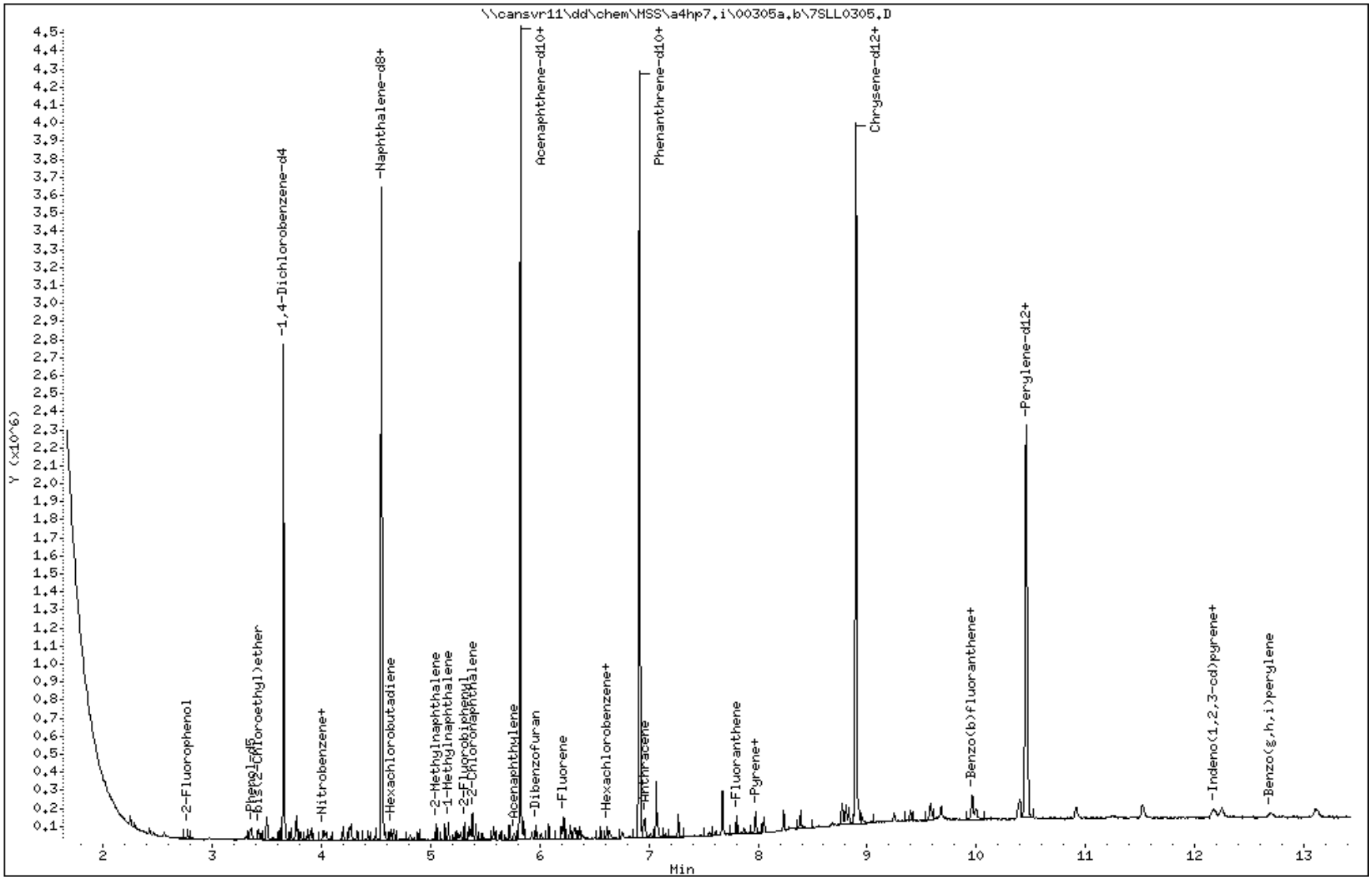
Instrument: a4hp7.i

Sample Info: l1,00305a.b,8270C-625,pah.sub,1,,1

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SM0305.D
Lab Smp Id: l4
Inj Date : 05-MAR-2010 10:41
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l4,00305a.b,8270C-625,1-827042d.sub,1,,4
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Meth Date : 05-Mar-2010 13:14 a4hp7.i Quant Type: ISTD
Cal Date : 05-MAR-2010 10:22 Cal File: 7SMM0305.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.654	3.654	(1.000)	322597	2.00000	
*	2 Naphthalene-d8	136	4.553	4.553	(1.000)	1358590	2.00000	
*	3 Acenaphthene-d10	164	5.820	5.820	(1.000)	714185	2.00000	
*	4 Phenanthrene-d10	188	6.911	6.911	(1.000)	1130329	2.00000	
*	5 Chrysene-d12	240	8.896	8.896	(1.000)	1295399	2.00000	
*	6 Perylene-d12	264	10.457	10.457	(1.000)	1170182	2.00000	
	9 Pyridine	79	2.049	2.049	(0.561)	185346	1.00000	1.0067
	10 N-Nitrosodimethylamine	74	2.012	2.012	(0.551)	106880	1.00000	0.99784
	11 Ethyl methacrylate	69	2.247	2.247	(0.615)	155155	1.00000	0.96024
	12 3-Chloropropionitrile	54	2.424	2.424	(0.663)	119569	1.00000	0.97754
	13 Malononitrile	66	2.558	2.558	(0.700)	237741	1.00000	0.99363
	209 Benzaldehyde	77	3.365	3.365	(0.921)	140689	1.00000	1.0872
	21 Aniline	93	3.424	3.424	(0.937)	304941	1.00000	0.97789
	22 Phenol	94	3.354	3.354	(0.918)	247057	1.00000	0.96682
	23 bis(2-Chloroethyl)ether	93	3.445	3.445	(0.943)	201612	1.00000	0.94292
	24 2-Chlorophenol	128	3.504	3.504	(0.959)	201795	1.00000	0.97336
	26 1,3-Dichlorobenzene	146	3.617	3.617	(0.990)	207668	1.00000	0.98361
	27 1,4-Dichlorobenzene	146	3.665	3.665	(1.003)	204651	1.00000	0.98052
	28 1,2-Dichlorobenzene	146	3.772	3.772	(1.032)	198780	1.00000	0.98582
	29 Benzyl Alcohol	108	3.718	3.718	(1.018)	132997	1.00000	0.97693
	30 2-Methylphenol	108	3.772	3.772	(1.032)	183262	1.00000	0.97495
	31 bis(2-Chloroisopropyl)ether	45	3.809	3.809	(1.042)	295409	1.00000	0.97787
	37 Acetophenone	105	3.916	3.916	(1.072)	264842	1.00000	0.96883
	32 N-Nitroso-di-n-propylamine	70	3.900	3.900	(1.067)	140524	1.00000	0.96205
	192 4-Methylphenol	108	3.873	3.873	(1.060)	189741	1.00000	0.96308
	34 Hexachloroethane	117	4.012	4.012	(1.098)	75473	1.00000	0.96744
	35 Nitrobenzene	77	4.044	4.044	(0.888)	194041	1.00000	0.95700
	41 Isophorone	82	4.200	4.200	(0.922)	390198	1.00000	0.96160
	42 2-Nitrophenol	139	4.264	4.264	(0.937)	102381	1.00000	0.94330
	43 2,4-Dimethylphenol	107	4.258	4.258	(0.935)	195940	1.00000	0.96666
	44 bis(2-Chloroethoxy)methane	93	4.333	4.333	(0.952)	228796	1.00000	0.96886

46	2,4-Toluenediamene	121	5.366	5.366 (1.179)	130374	1.00000	1.0516
47	1,3,5-Trichlorobenzene	180	4.274	4.274 (0.939)	171070	1.00000	0.97978

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.424	4.424	(0.972)	152118	1.00000	0.95981
49	Benzoic Acid	122	4.285	4.285	(0.941)	232862	2.00000	2.1272
50	1,2,4-Trichlorobenzene	180	4.499	4.499	(0.988)	166043	1.00000	0.96080
51	Naphthalene	128	4.563	4.563	(1.002)	610567	1.00000	0.97195
52	4-Chloroaniline	127	4.579	4.579	(1.006)	277089	1.00000	1.0223
56	Hexachlorobutadiene	225	4.633	4.633	(1.018)	85893	1.00000	0.95334
210	Caprolactam	113	4.815	4.815	(1.058)	68901	1.00000	0.95878
57	1,2,3-Trichlorobenzene	180	4.665	4.665	(1.025)	157257	1.00000	0.96315
59	4-Chloro-3-Methylphenol	107	4.895	4.895	(1.075)	168577	1.00000	0.94454
62	2-Methylnaphthalene	142	5.055	5.055	(1.110)	329480	1.00000	0.96343
63	1-Methylnaphthalene	142	5.130	5.130	(1.127)	377993	1.00000	0.96122
64	Hexachlorocyclopentadiene	237	5.162	5.162	(0.887)	75275	1.00000	1.0044
66	2,4,6-Trichlorophenol	196	5.243	5.243	(0.901)	103710	1.00000	0.97489
67	2,4,5-Trichlorophenol	196	5.269	5.269	(0.905)	112570	1.00000	0.98516
211	1,1'-Biphenyl	154	5.387	5.387	(0.926)	477012	1.00000	0.97933
68	1,2,3,5-Tetrachlorobenzene	216	5.162	5.162	(0.887)	159360	1.00000	0.97945
70	2-Chloronaphthalene	162	5.414	5.414	(0.930)	351711	1.00000	0.97208
73	2-Nitroaniline	65	5.467	5.467	(0.939)	102530	1.00000	0.96556
74	1,2,3,4-Tetrachlorobenzene	216	5.382	5.382	(0.925)	148473	1.00000	0.98692
76	Dimethylphthalate	163	5.579	5.579	(0.959)	403377	1.00000	0.96972
78	2,6-Dinitrotoluene	165	5.633	5.633	(0.968)	86798	1.00000	0.93522
79	Acenaphthylene	152	5.724	5.724	(0.983)	583183	1.00000	0.98100
80	1,2-Dinitrobenzene	168	5.681	5.681	(0.976)	42041	1.00000	0.90939
81	3-Nitroaniline	138	5.767	5.767	(0.991)	100803	1.00000	0.97108
82	Acenaphthene	153	5.847	5.847	(1.005)	373162	1.00000	0.97600
83	2,4-Dinitrophenol	184	5.836	5.836	(1.003)	87003	2.00000	2.0932(Q)
85	4-Nitrophenol	109	5.847	5.847	(1.005)	47166	1.00000	0.93609
86	Dibenzofuran	168	5.970	5.970	(1.026)	500646	1.00000	0.97472
87	2,4-Dinitrotoluene	165	5.927	5.927	(1.018)	119299	1.00000	0.94017
91	2,3,5,6-Tetrachlorophenol	232	6.013	6.013	(1.033)	89710	1.00000	0.93395
93	Diethylphthalate	149	6.088	6.088	(1.046)	409755	1.00000	0.96108
94	Fluorene	166	6.216	6.216	(1.068)	424329	1.00000	0.97220
95	4-Chlorophenyl-phenylether	204	6.200	6.200	(1.065)	190616	1.00000	0.98049
96	4-Nitroaniline	138	6.211	6.211	(1.067)	104360	1.00000	0.95862
98	4,6-Dinitro-2-methylphenol	198	6.227	6.227	(0.901)	51801	1.00000	1.0317
99	N-Nitrosodiphenylamine	169	6.280	6.280	(0.909)	292805	1.00000	0.96618
100	1,2-Diphenylhydrazine	77	6.312	6.312	(0.913)	411901	1.00000	0.99537
106	4-Bromophenyl-phenylether	248	6.558	6.558	(0.949)	105882	1.00000	0.97343
107	Hexachlorobenzene	284	6.617	6.617	(0.957)	104198	1.00000	0.97429
212	Atrazine	200	6.644	6.644	(0.961)	75192	1.00000	0.99630
111	Pentachlorophenol	266	6.751	6.751	(0.977)	140261	2.00000	1.9996
115	Phenanthrene	178	6.927	6.927	(1.002)	603405	1.00000	0.98269
116	Anthracene	178	6.965	6.965	(1.008)	603012	1.00000	0.97497
119	Carbazole	167	7.066	7.066	(1.022)	562389	1.00000	0.97432
120	Di-n-Butylphthalate	149	7.270	7.270	(1.052)	682521	1.00000	0.97428
123	Fluoranthene	202	7.799	7.799	(1.128)	609280	1.00000	0.96830
124	Benzidine	184	7.869	7.869	(0.885)	368414	1.00000	1.0002
125	Pyrene	202	7.976	7.976	(0.897)	649801	1.00000	0.97301
131	Butylbenzylphthalate	149	8.388	8.388	(0.943)	296322	1.00000	0.94897
133	3,3'-Dimethoxybenzidine	244	8.789	8.789	(0.988)	139726	1.00000	1.0328
135	3,3'-Dichlorobenzidine	252	8.831	8.831	(0.993)	225159	1.00000	0.96456
136	Benzo(a)Anthracene	228	8.885	8.885	(0.999)	605977	1.00000	0.94513

137 Chrysene	228	8.917	8.917 (1.002)	589749	1.00000	0.97478
138 4,4'-Methylene bis(o-chloroan	231	8.826	8.826 (0.992)	114601	1.00000	0.93678

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.805	8.805	(0.990)	425022	1.00000	0.95508
140	Di-n-octylphthalate	149	9.398	9.398	(0.899)	699167	1.00000	0.95247
141	Benzo(b)fluoranthene	252	9.965	9.965	(0.953)	595227	1.00000	0.98963
142	Benzo(k)fluoranthene	252	9.997	9.997	(0.956)	586694	1.00000	0.91672
146	Benzo(a)pyrene	252	10.383	10.383	(0.993)	550770	1.00000	0.95388
149	Indeno(1,2,3-cd)pyrene	276	12.164	12.164	(1.163)	625334	1.00000	0.96912
150	Dibenz(a,h)anthracene	278	12.185	12.185	(1.165)	527036	1.00000	0.97027
151	Benzo(g,h,i)perylene	276	12.693	12.693	(1.214)	519147	1.00000	0.96420
198	1,4-Dioxane	88	1.846	1.846	(0.505)	73033	1.00000	1.0515
$ 154	Nitrobenzene-d5	82	4.028	4.028	(0.885)	197309	1.00000	0.96122
$ 155	2-Fluorobiphenyl	172	5.307	5.307	(0.912)	399571	1.00000	0.96980
$ 156	Terphenyl-d14	244	8.051	8.051	(0.905)	386374	1.00000	0.94947
$ 157	Phenol-d5	99	3.344	3.344	(0.915)	232035	1.00000	0.96007
$ 158	2-Fluorophenol	112	2.771	2.771	(0.759)	180748	1.00000	0.98806
$ 159	2,4,6-Tribromophenol	330	6.392	6.392	(1.098)	44231	1.00000	0.91770
$ 186	2-Chlorophenol-d4	132	3.494	3.494	(0.956)	184771	1.00000	0.96712
$ 187	1,2-Dichlorobenzene-d4	152	3.761	3.761	(1.029)	128195	1.00000	0.99448
M 195	Cresols, total	100				373003	1.00000	
101	Diphenylamine	169	6.280	6.280	(0.909)	292805	1.00000	0.96618

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SM0305.D
Lab Smp Id: l4
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Misc Info:

Calibration Date: 05-MAR-2010
Calibration Time: 12:55
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	224917	112459	449834	322597	43.43
2 Naphthalene-d8	988164	494082	1976328	1358590	37.49
3 Acenaphthene-d10	560713	280357	1121426	714185	27.37
4 Phenanthrene-d10	953385	476693	1906770	1130329	18.56
5 Chrysene-d12	1158460	579230	2316920	1295399	11.82
6 Perylene-d12	1037564	518782	2075128	1170182	12.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.65	3.15	4.15	3.65	0.14
2 Naphthalene-d8	4.55	4.05	5.05	4.55	-0.00
3 Acenaphthene-d10	5.82	5.32	6.32	5.82	-0.00
4 Phenanthrene-d10	6.91	6.41	7.41	6.91	-0.00
5 Chrysene-d12	8.90	8.40	9.40	8.90	-0.00
6 Perylene-d12	10.45	9.95	10.95	10.46	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SM0305.D

Page 1

Date : 05-MAR-2010 10:41

Client ID:

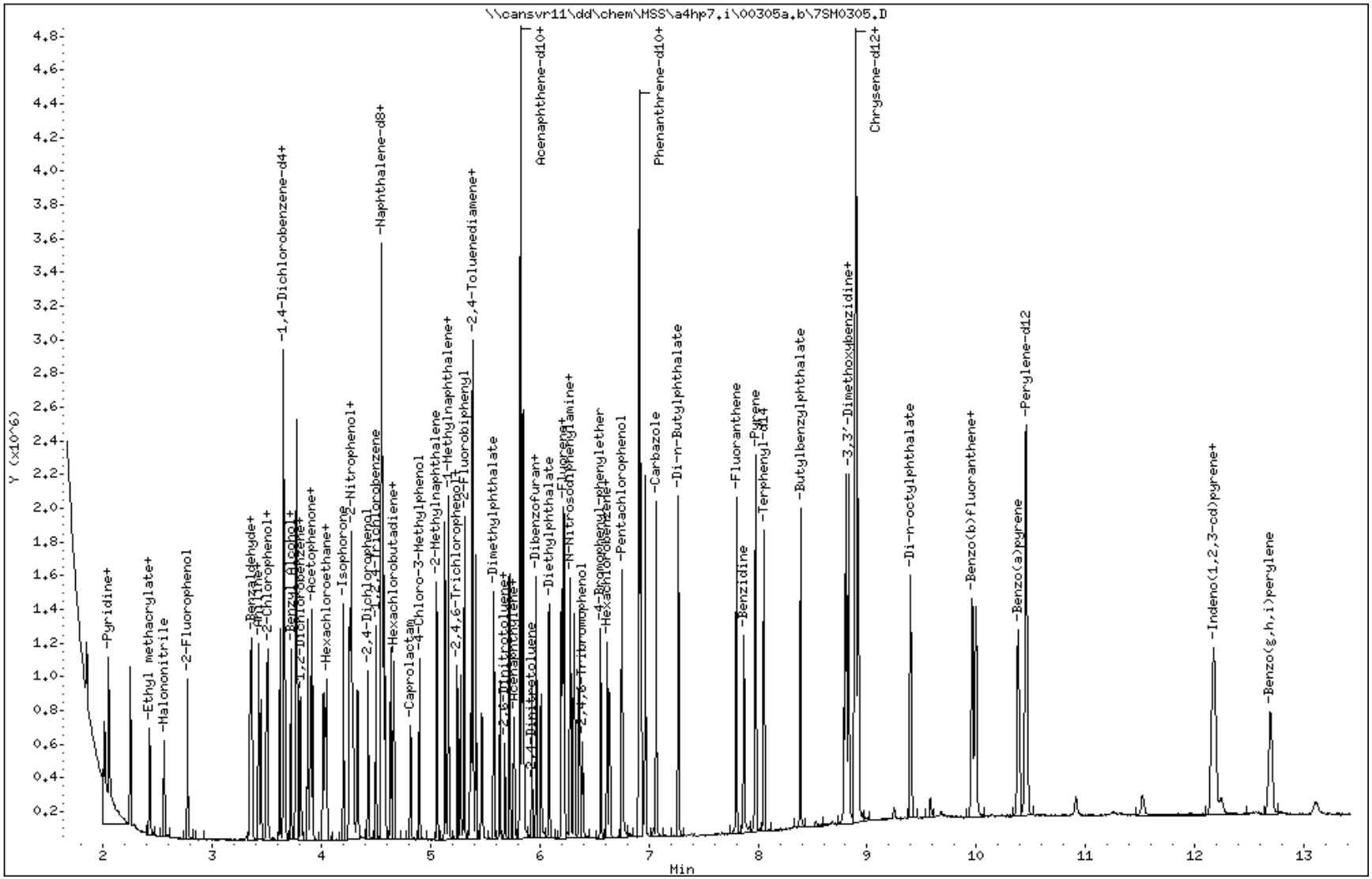
Instrument: a4hp7.i

Sample Info: l4,00305a.b,8270C-625,1-827042d.sub,1,,4

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMH0305.D
Lab Smp Id: l6
Inj Date : 05-MAR-2010 12:55
Operator : 001710   Inst ID: a4hp7.i
Smp Info : l6,00305a.b,8270C-625,1-827042d.sub,1,,6
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Meth Date : 05-Mar-2010 13:15 a4hp7.i Quant Type: ISTD
Cal Date : 05-MAR-2010 12:36   Cal File: 7SH0305.D
Als bottle: 10   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.649	3.649	(1.000)	224917	2.00000	
*	2 Naphthalene-d8	136	4.553	4.553	(1.000)	988164	2.00000	
*	3 Acenaphthene-d10	164	5.820	5.820	(1.000)	560713	2.00000	
*	4 Phenanthrene-d10	188	6.911	6.911	(1.000)	953385	2.00000	
*	5 Chrysene-d12	240	8.896	8.896	(1.000)	1158460	2.00000	
*	6 Perylene-d12	264	10.452	10.452	(1.000)	1037564	2.00000	
	9 Pyridine	79	2.034	2.034	(0.557)	659560	5.00000	5.1380
	10 N-Nitrosodimethylamine	74	2.007	2.007	(0.550)	366335	5.00000	4.9054(M)
	11 Ethyl methacrylate	69	2.237	2.237	(0.613)	558439	5.00000	4.9571(M)
	12 3-Chloropropionitrile	54	2.419	2.419	(0.663)	421676	5.00000	4.9446
	13 Malononitrile	66	2.558	2.558	(0.701)	835655	5.00000	5.0094(M)
	209 Benzaldehyde	77	3.360	3.360	(0.921)	445576	5.00000	4.9386
	21 Aniline	93	3.424	3.424	(0.938)	1055394	5.00000	4.8543
	22 Phenol	94	3.355	3.355	(0.919)	878842	5.00000	4.9328
	23 bis(2-Chloroethyl)ether	93	3.440	3.440	(0.943)	792591	5.00000	5.3167
	24 2-Chlorophenol	128	3.504	3.504	(0.960)	712070	5.00000	4.9263
	26 1,3-Dichlorobenzene	146	3.617	3.617	(0.991)	710344	5.00000	4.8257
	27 1,4-Dichlorobenzene	146	3.665	3.665	(1.004)	703340	5.00000	4.8334
	28 1,2-Dichlorobenzene	146	3.772	3.772	(1.034)	679776	5.00000	4.8353
	29 Benzyl Alcohol	108	3.718	3.718	(1.019)	472802	5.00000	4.9813
	30 2-Methylphenol	108	3.772	3.772	(1.034)	648215	5.00000	4.9461
	31 bis(2-Chloroisopropyl)ether	45	3.809	3.809	(1.044)	1063817	5.00000	5.0508
	37 Acetophenone	105	3.916	3.916	(1.073)	956956	5.00000	5.0210
	32 N-Nitroso-di-n-propylamine	70	3.900	3.900	(1.069)	515196	5.00000	5.0589
	192 4-Methylphenol	108	3.873	3.873	(1.062)	689739	5.00000	5.0214
	34 Hexachloroethane	117	4.013	4.013	(1.100)	265607	5.00000	4.8833
	35 Nitrobenzene	77	4.045	4.045	(0.888)	709638	5.00000	4.8118
	41 Isophorone	82	4.205	4.205	(0.924)	1467503	5.00000	4.9722
	42 2-Nitrophenol	139	4.269	4.269	(0.938)	395490	5.00000	5.0099
	43 2,4-Dimethylphenol	107	4.259	4.259	(0.935)	720437	5.00000	4.8866
	44 bis(2-Chloroethoxy)methane	93	4.333	4.333	(0.952)	847544	5.00000	4.9344

46	2,4-Toluenediamene	121	5.371	5.371 (1.180)	425152	5.00000	4.7150
47	1,3,5-Trichlorobenzene	180	4.275	4.275 (0.939)	600995	5.00000	4.7324

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.430	4.430	(0.973)	565802	5.00000	4.9082
49	Benzoic Acid	122	4.317	4.317	(0.948)	1024069	10.0000	9.6584
50	1,2,4-Trichlorobenzene	180	4.499	4.499	(0.988)	603742	5.00000	4.8031
51	Naphthalene	128	4.569	4.569	(1.004)	2200501	5.00000	4.8160
52	4-Chloroaniline	127	4.579	4.579	(1.006)	924164	5.00000	4.6880
56	Hexachlorobutadiene	225	4.633	4.633	(1.018)	312600	5.00000	4.7702
210	Caprolactam	113	4.836	4.836	(1.062)	275603	5.00000	5.2728
57	1,2,3-Trichlorobenzene	180	4.665	4.665	(1.025)	571032	5.00000	4.8084
59	4-Chloro-3-Methylphenol	107	4.900	4.900	(1.076)	660827	5.00000	5.0906
62	2-Methylnaphthalene	142	5.061	5.061	(1.112)	1236107	5.00000	4.9694
63	1-Methylnaphthalene	142	5.136	5.136	(1.128)	1411597	5.00000	4.9352
64	Hexachlorocyclopentadiene	237	5.162	5.162	(0.887)	323128	5.00000	4.8041
66	2,4,6-Trichlorophenol	196	5.248	5.248	(0.902)	406316	5.00000	4.8648
67	2,4,5-Trichlorophenol	196	5.275	5.275	(0.906)	431118	5.00000	4.8056
211	1,1'-Biphenyl	154	5.387	5.387	(0.926)	1833943	5.00000	4.7957
68	1,2,3,5-Tetrachlorobenzene	216	5.168	5.168	(0.888)	601962	5.00000	4.7124
70	2-Chloronaphthalene	162	5.419	5.419	(0.931)	1357307	5.00000	4.7782
73	2-Nitroaniline	65	5.473	5.473	(0.940)	422528	5.00000	5.0682
74	1,2,3,4-Tetrachlorobenzene	216	5.387	5.387	(0.926)	565197	5.00000	4.7853
76	Dimethylphthalate	163	5.585	5.585	(0.960)	1634227	5.00000	5.0040
78	2,6-Dinitrotoluene	165	5.638	5.638	(0.969)	378840	5.00000	5.1992
79	Acenaphthylene	152	5.724	5.724	(0.983)	2280360	5.00000	4.8858
80	1,2-Dinitrobenzene	168	5.687	5.687	(0.977)	192205	5.00000	5.2956
81	3-Nitroaniline	138	5.767	5.767	(0.991)	413363	5.00000	5.0720
82	Acenaphthene	153	5.847	5.847	(1.005)	1451817	5.00000	4.8365
83	2,4-Dinitrophenol	184	5.842	5.842	(1.004)	527427	10.0000	9.6012
85	4-Nitrophenol	109	5.852	5.852	(1.006)	206355	5.00000	5.2164
86	Dibenzofuran	168	5.970	5.970	(1.026)	1976470	5.00000	4.9013
87	2,4-Dinitrotoluene	165	5.933	5.933	(1.019)	531690	5.00000	5.3370
91	2,3,5,6-Tetrachlorophenol	232	6.013	6.013	(1.033)	393483	5.00000	5.2177
93	Diethylphthalate	149	6.088	6.088	(1.046)	1720552	5.00000	5.1401
94	Fluorene	166	6.221	6.221	(1.069)	1717443	5.00000	5.0119
95	4-Chlorophenyl-phenylether	204	6.200	6.200	(1.065)	766416	5.00000	5.0213
96	4-Nitroaniline	138	6.216	6.216	(1.068)	452390	5.00000	5.2929
98	4,6-Dinitro-2-methylphenol	198	6.232	6.232	(0.902)	300610	5.00000	4.8370
99	N-Nitrosodiphenylamine	169	6.280	6.280	(0.909)	1258119	5.00000	4.9220
100	1,2-Diphenylhydrazine	77	6.318	6.318	(0.914)	1693329	5.00000	4.8514
106	4-Bromophenyl-phenylether	248	6.564	6.564	(0.950)	444510	5.00000	4.8451
107	Hexachlorobenzene	284	6.623	6.623	(0.958)	441383	5.00000	4.8930
212	Atrazine	200	6.644	6.644	(0.961)	325251	5.00000	5.1094
111	Pentachlorophenol	266	6.756	6.756	(0.978)	627688	10.0000	9.5429
115	Phenanthrene	178	6.933	6.933	(1.003)	2530307	5.00000	4.8856
116	Anthracene	178	6.970	6.970	(1.009)	2563235	5.00000	4.9135
119	Carbazole	167	7.072	7.072	(1.023)	2418980	5.00000	4.9686
120	Di-n-Butylphthalate	149	7.270	7.270	(1.052)	3073007	5.00000	5.2008
123	Fluoranthene	202	7.805	7.805	(1.129)	2658105	5.00000	5.0084
124	Benzidine	184	7.869	7.869	(0.885)	1666473	5.00000	5.0591
125	Pyrene	202	7.976	7.976	(0.897)	2843380	5.00000	4.7609
131	Butylbenzylphthalate	149	8.388	8.388	(0.943)	1374248	5.00000	4.9212
133	3,3'-Dimethoxybenzidine	244	8.789	8.789	(0.988)	579945	5.00000	4.7935
135	3,3'-Dichlorobenzidine	252	8.837	8.837	(0.993)	1023072	5.00000	4.9008
136	Benzo(a)Anthracene	228	8.885	8.885	(0.999)	2727775	5.00000	4.7574

137	Chrysene	228	8.923	8.923 (1.003)	2579144	5.00000	4.7669
138	4,4'-Methylene bis(o-chloroan	231	8.832	8.832 (0.993)	533826	5.00000	4.8794

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.805	8.805	(0.990)	1975567	5.00000	4.9641
140	Di-n-octylphthalate	149	9.399	9.399	(0.899)	3328271	5.00000	5.1136
141	Benzo(b)fluoranthene	252	9.966	9.966	(0.953)	2606346	5.00000	4.8872
142	Benzo(k)fluoranthene	252	10.003	10.003	(0.957)	2833818	5.00000	4.9938
146	Benzo(a)pyrene	252	10.388	10.388	(0.994)	2499355	5.00000	4.8819
149	Indeno(1,2,3-cd)pyrene	276	12.180	12.180	(1.165)	2805209	5.00000	4.9031
150	Dibenz(a,h)anthracene	278	12.196	12.196	(1.167)	2372879	5.00000	4.9268
151	Benzo(g,h,i)perylene	276	12.709	12.709	(1.216)	2335047	5.00000	4.8911
198	1,4-Dioxane	88	1.830	1.830	(0.502)	186965	5.00000	3.8608
$ 154	Nitrobenzene-d5	82	4.029	4.029	(0.885)	732274	5.00000	4.9047
$ 155	2-Fluorobiphenyl	172	5.307	5.307	(0.912)	1546357	5.00000	4.7804
$ 156	Terphenyl-d14	244	8.051	8.051	(0.905)	1758656	5.00000	4.8325
$ 157	Phenol-d5	99	3.344	3.344	(0.916)	833617	5.00000	4.9471
$ 158	2-Fluorophenol	112	2.766	2.766	(0.758)	621240	5.00000	4.8709
$ 159	2,4,6-Tribromophenol	330	6.393	6.393	(1.098)	196753	5.00000	5.1996
$ 186	2-Chlorophenol-d4	132	3.494	3.494	(0.957)	657175	5.00000	4.9336
$ 187	1,2-Dichlorobenzene-d4	152	3.761	3.761	(1.031)	438051	5.00000	4.8740
M 195	Cresols, total	100				1337954	5.00000	
101	Diphenylamine	169	6.280	6.280	(0.909)	1258119	5.00000	4.9220

QC Flag Legend

M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SMH0305.D
Lab Smp Id: l6
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Misc Info:

Calibration Date: 05-MAR-2010
Calibration Time: 12:55
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	224917	112459	449834	224917	0.00
2 Naphthalene-d8	988164	494082	1976328	988164	0.00
3 Acenaphthene-d10	560713	280357	1121426	560713	0.00
4 Phenanthrene-d10	953385	476693	1906770	953385	0.00
5 Chrysene-d12	1158460	579230	2316920	1158460	0.00
6 Perylene-d12	1037564	518782	2075128	1037564	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.65	3.15	4.15	3.65	0.00
2 Naphthalene-d8	4.55	4.05	5.05	4.55	0.00
3 Acenaphthene-d10	5.82	5.32	6.32	5.82	0.00
4 Phenanthrene-d10	6.91	6.41	7.41	6.91	0.00
5 Chrysene-d12	8.90	8.40	9.40	8.90	0.00
6 Perylene-d12	10.45	9.95	10.95	10.45	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMH0305.D

Page 1

Date : 05-MAR-2010 12:55

Client ID:

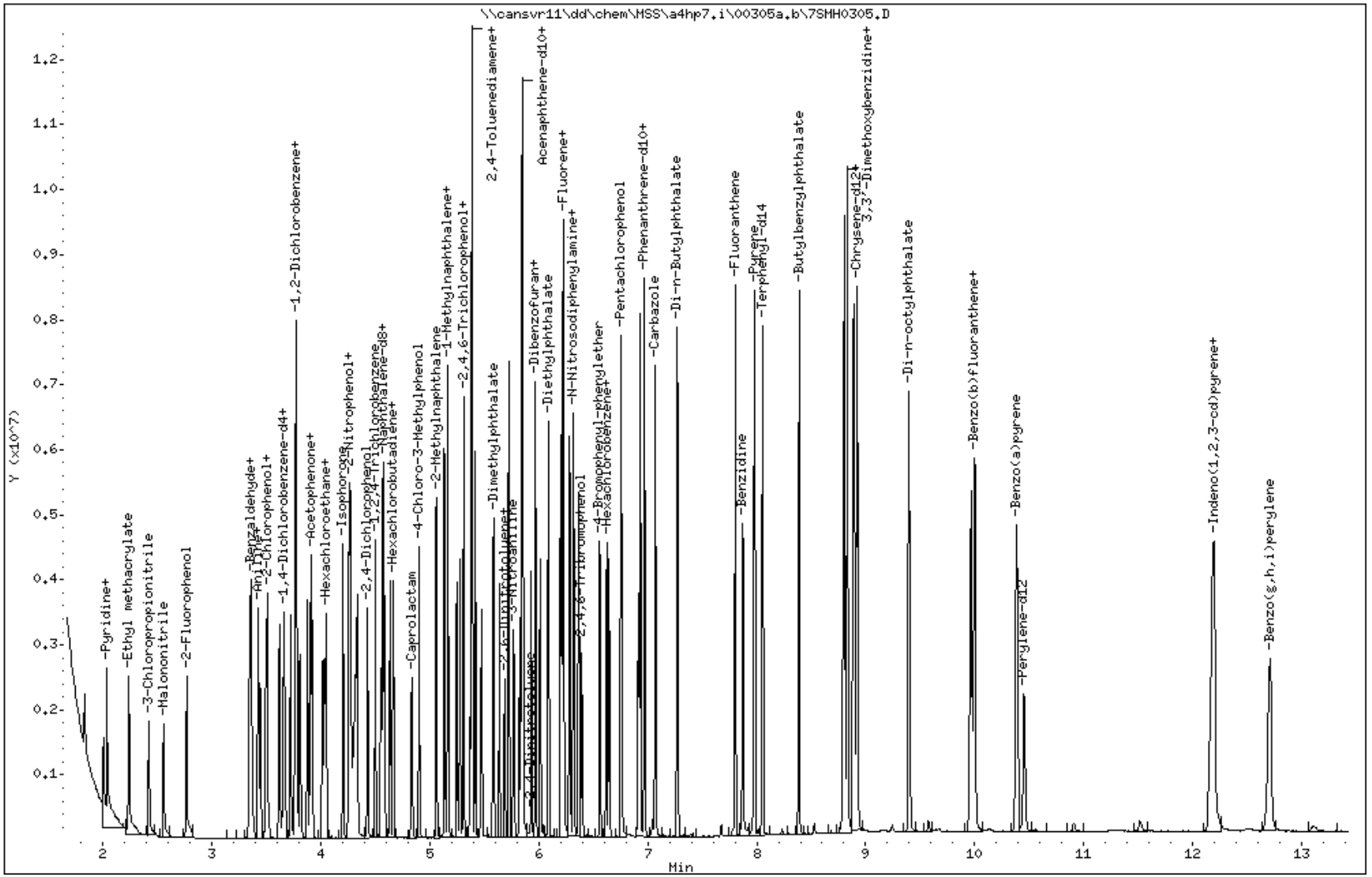
Instrument: a4hp7.i

Sample Info: 16,00305a.b,8270C-625,1-827042d.sub,1,,6

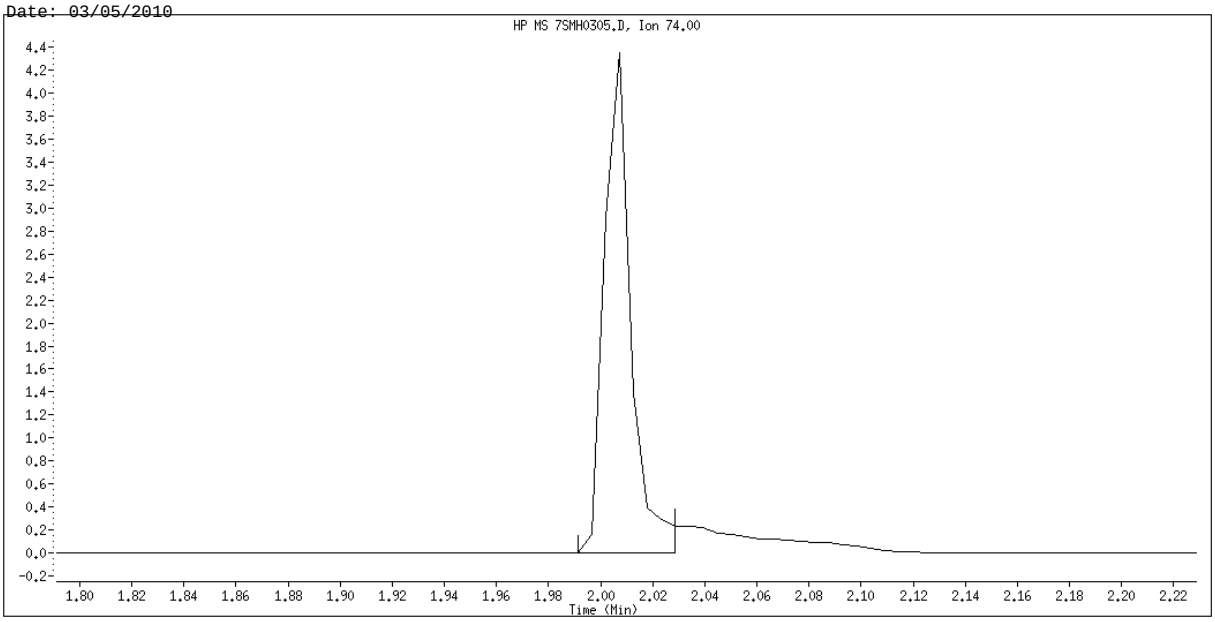
Operator: 001710

Column phase: db5.625

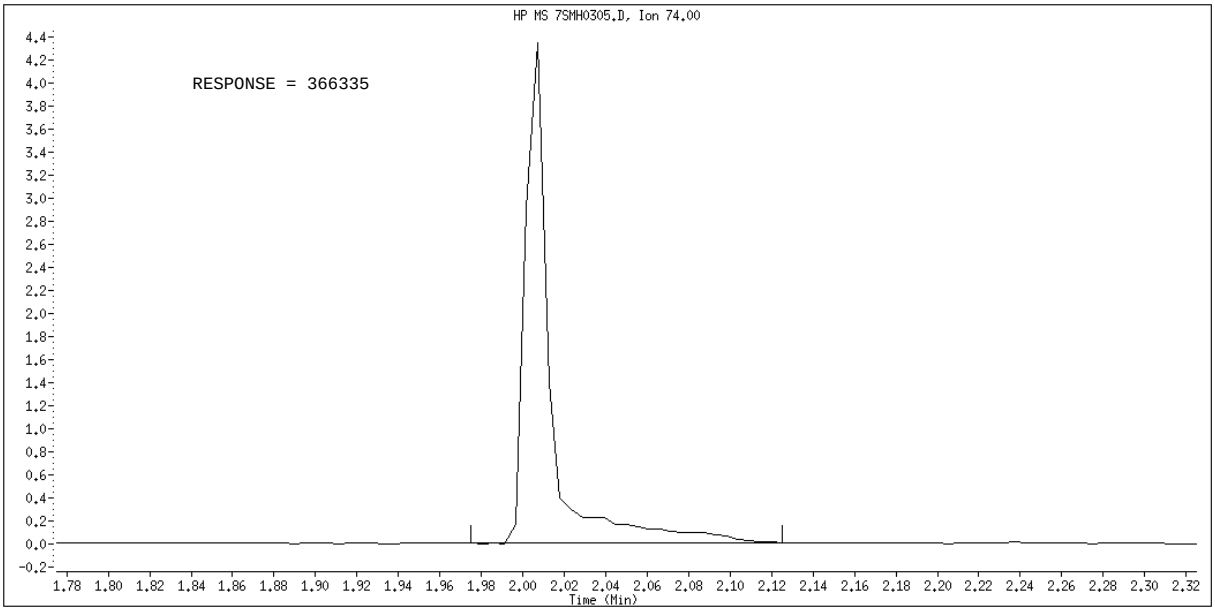
Column diameter: 0.32



Data File Name: 7SMH0305.D
Inj. Date and Time: 05-MAR-2010 12:55
Instrument ID: a4hp7.i
Client ID:
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 03/05/2010



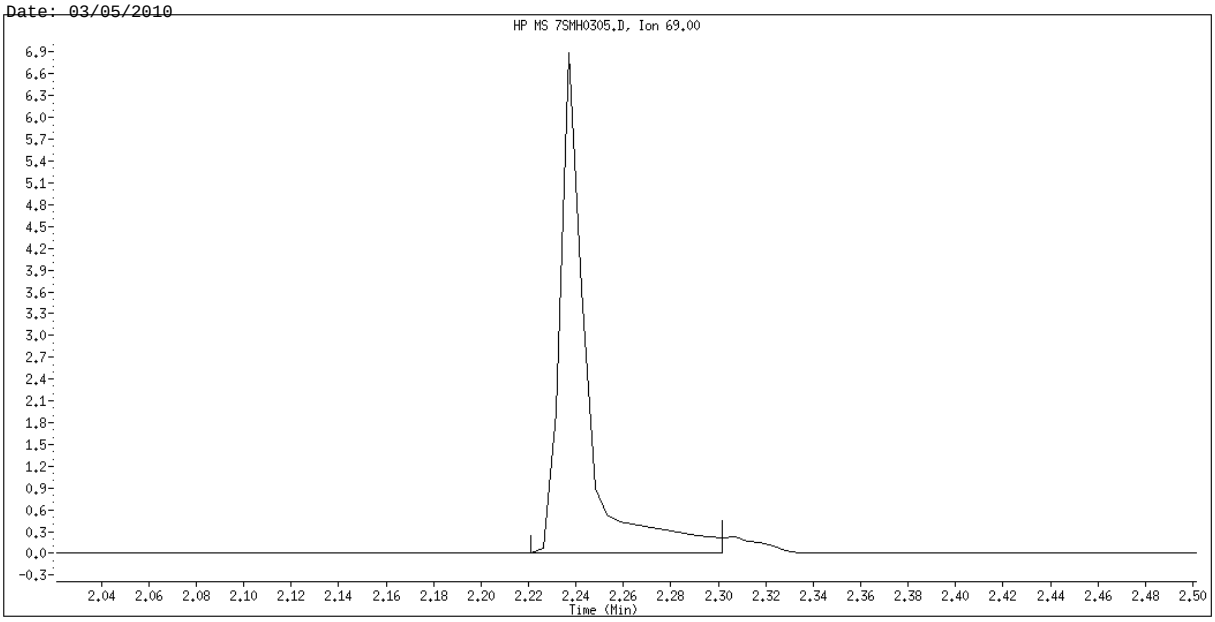
Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Data File Name: 7SMH0305.D
Inj. Date and Time: 05-MAR-2010 12:55
Instrument ID: a4hp7.i
Client ID:
Compound Name: Ethyl methacrylate
CAS #: 97-63-2
Report Date: 03/05/2010



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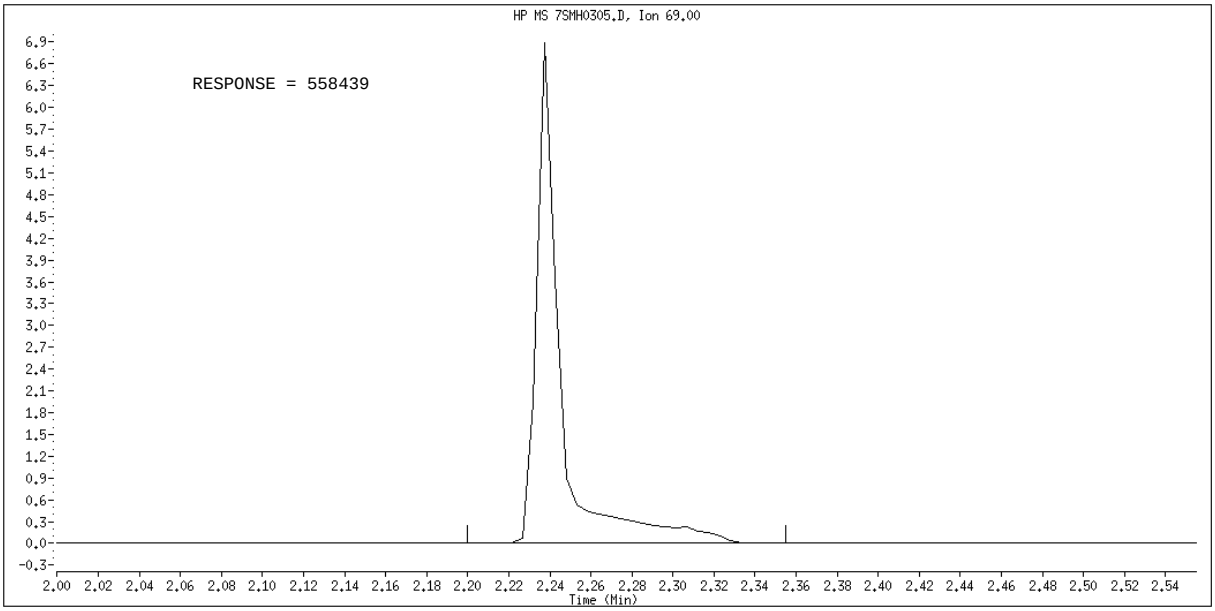
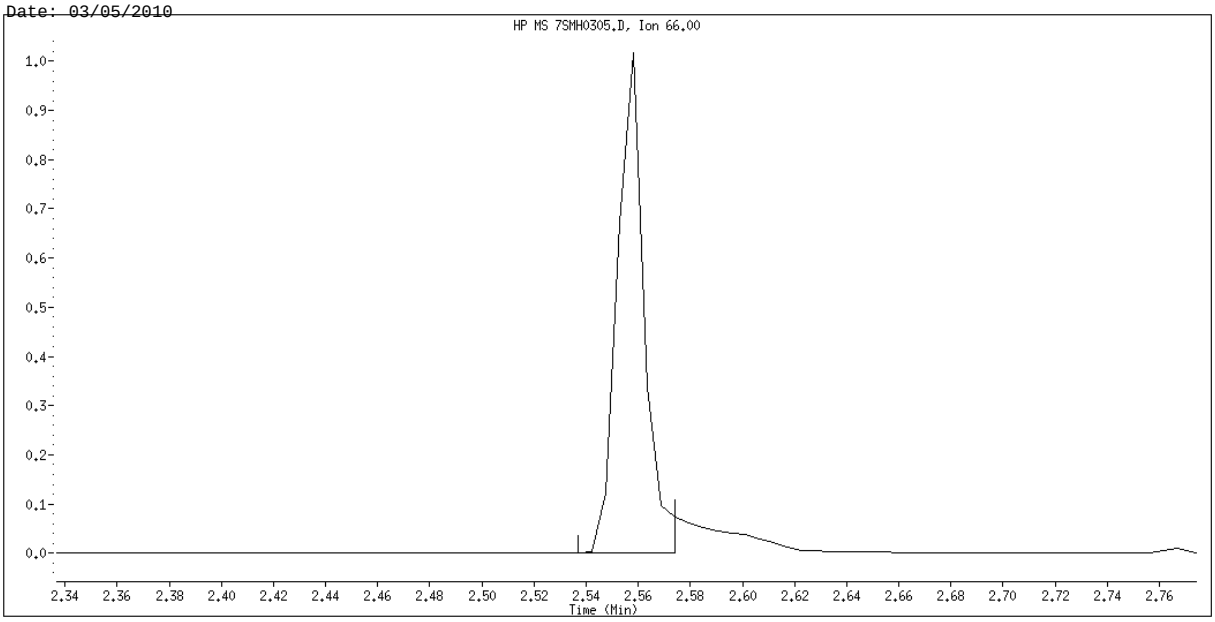


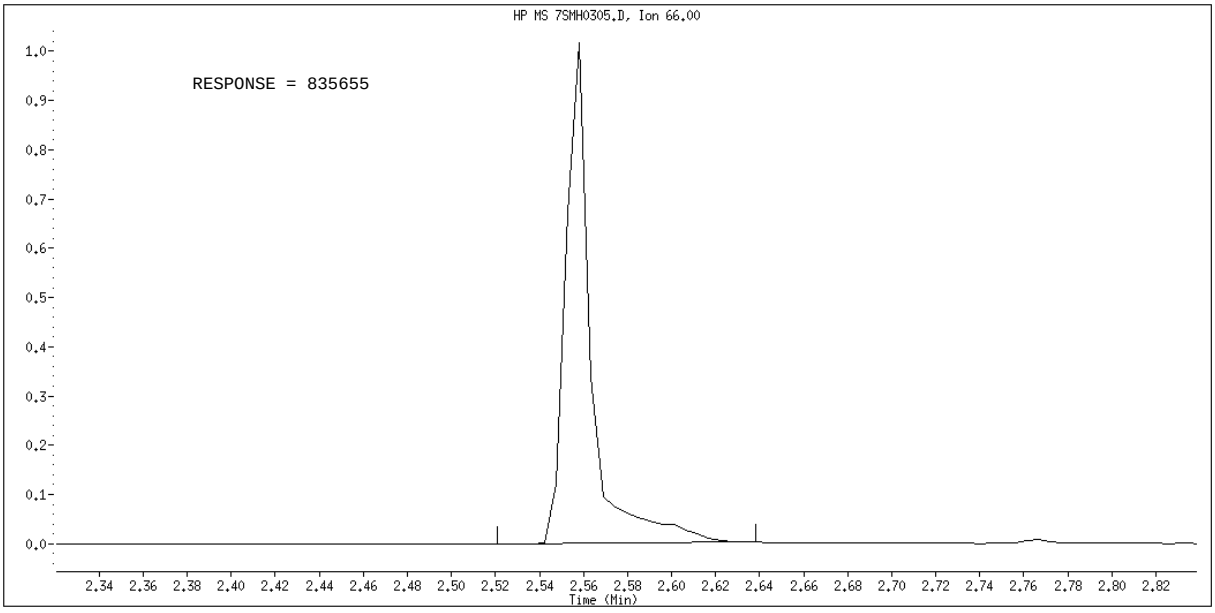
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Data File Name: 7SMH0305.D
Inj. Date and Time: 05-MAR-2010 12:55
Instrument ID: a4hp7.i
Client ID:
Compound Name: Malononitrile
CAS #: 109-77-3
Report Date: 03/05/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SML0305.D
Lab Smp Id: l3
Inj Date : 05-MAR-2010 11:00
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l3,00305a.b,8270C-625,1-827042d.sub,1,,3
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Meth Date : 05-Mar-2010 13:14 a4hp7.i Quant Type: ISTD
Cal Date : 05-MAR-2010 10:41 Cal File: 7SM0305.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	3.654	3.654	(1.000)	326248	2.00000	
*	2 Naphthalene-d8	136	4.547	4.547	(1.000)	1338460	2.00000	
*	3 Acenaphthene-d10	164	5.820	5.820	(1.000)	706468	2.00000	
*	4 Phenanthrene-d10	188	6.911	6.911	(1.000)	1127266	2.00000	
*	5 Chrysene-d12	240	8.901	8.901	(1.000)	1263608	2.00000	
*	6 Perylene-d12	264	10.458	10.458	(1.000)	1147290	2.00000	
	9 Pyridine	79	2.055	2.055	(0.562)	76738	0.50000	0.41212(Q)
	10 N-Nitrosodimethylamine	74	2.017	2.017	(0.552)	51674	0.50000	0.47703
	11 Ethyl methacrylate	69	2.247	2.247	(0.615)	76848	0.50000	0.47028
	12 3-Chloropropionitrile	54	2.424	2.424	(0.663)	59506	0.50000	0.48105
	13 Malononitrile	66	2.558	2.558	(0.700)	118969	0.50000	0.49166
	209 Benzaldehyde	77	3.365	3.365	(0.921)	70042	0.50000	0.53519
	21 Aniline	93	3.424	3.424	(0.937)	153348	0.50000	0.48626
	22 Phenol	94	3.355	3.355	(0.918)	126039	0.50000	0.48771
	23 bis(2-Chloroethyl)ether	93	3.446	3.446	(0.943)	99360	0.50000	0.45949
	24 2-Chlorophenol	128	3.504	3.504	(0.959)	102478	0.50000	0.48877
	26 1,3-Dichlorobenzene	146	3.617	3.617	(0.990)	102435	0.50000	0.47975
	27 1,4-Dichlorobenzene	146	3.665	3.665	(1.003)	102575	0.50000	0.48596
	28 1,2-Dichlorobenzene	146	3.772	3.772	(1.032)	99899	0.50000	0.48989
	29 Benzyl Alcohol	108	3.718	3.718	(1.018)	66163	0.50000	0.48056
	30 2-Methylphenol	108	3.772	3.772	(1.032)	90940	0.50000	0.47838
	31 bis(2-Chloroisopropyl)ether	45	3.804	3.804	(1.041)	148364	0.50000	0.48562
	37 Acetophenone	105	3.916	3.916	(1.072)	134821	0.50000	0.48768
	32 N-Nitroso-di-n-propylamine	70	3.895	3.895	(1.066)	71118	0.50000	0.48144
	192 4-Methylphenol	108	3.873	3.873	(1.060)	94519	0.50000	0.47439
	34 Hexachloroethane	117	4.013	4.013	(1.098)	38330	0.50000	0.48583
	35 Nitrobenzene	77	4.045	4.045	(0.889)	97804	0.50000	0.48962
	41 Isophorone	82	4.200	4.200	(0.924)	195916	0.50000	0.49008
	42 2-Nitrophenol	139	4.264	4.264	(0.938)	48819	0.50000	0.45657
	43 2,4-Dimethylphenol	107	4.253	4.253	(0.935)	95175	0.50000	0.47660
	44 bis(2-Chloroethoxy)methane	93	4.328	4.328	(0.952)	114746	0.50000	0.49321

46	2,4-Toluenediamene	121	5.366	5.366 (1.180)	65302	0.50000	0.53467
47	1,3,5-Trichlorobenzene	180	4.275	4.275 (0.940)	85737	0.50000	0.49843

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.424	4.424	(0.973)	73540	0.50000	0.47099
49	Benzoic Acid	122	4.275	4.275	(0.940)	96165	1.00000	1.2118(Q)
50	1,2,4-Trichlorobenzene	180	4.499	4.499	(0.989)	83560	0.50000	0.49079
51	Naphthalene	128	4.563	4.563	(1.004)	308799	0.50000	0.49896
52	4-Chloroaniline	127	4.579	4.579	(1.007)	134520	0.50000	0.50379
56	Hexachlorobutadiene	225	4.633	4.633	(1.019)	42321	0.50000	0.47679
210	Caprolactam	113	4.815	4.815	(1.059)	31999	0.50000	0.45198
57	1,2,3-Trichlorobenzene	180	4.665	4.665	(1.026)	78708	0.50000	0.48931
59	4-Chloro-3-Methylphenol	107	4.895	4.895	(1.076)	84307	0.50000	0.47948
62	2-Methylnaphthalene	142	5.055	5.055	(1.112)	163797	0.50000	0.48616
63	1-Methylnaphthalene	142	5.130	5.130	(1.128)	188518	0.50000	0.48660
64	Hexachlorocyclopentadiene	237	5.162	5.162	(0.887)	31965	0.50000	0.49639
66	2,4,6-Trichlorophenol	196	5.243	5.243	(0.901)	50978	0.50000	0.48443
67	2,4,5-Trichlorophenol	196	5.269	5.269	(0.905)	54350	0.50000	0.48084
211	1,1'-Biphenyl	154	5.387	5.387	(0.926)	238659	0.50000	0.49533
68	1,2,3,5-Tetrachlorobenzene	216	5.162	5.162	(0.887)	80641	0.50000	0.50105
70	2-Chloronaphthalene	162	5.414	5.414	(0.930)	175004	0.50000	0.48897
73	2-Nitroaniline	65	5.467	5.467	(0.939)	48651	0.50000	0.46317
74	1,2,3,4-Tetrachlorobenzene	216	5.382	5.382	(0.925)	75438	0.50000	0.50693
76	Dimethylphthalate	163	5.580	5.580	(0.959)	202632	0.50000	0.49245
78	2,6-Dinitrotoluene	165	5.633	5.633	(0.968)	41723	0.50000	0.45446
79	Acenaphthylene	152	5.724	5.724	(0.983)	288138	0.50000	0.48998
80	1,2-Dinitrobenzene	168	5.681	5.681	(0.976)	19699	0.50000	0.43076
81	3-Nitroaniline	138	5.767	5.767	(0.991)	48784	0.50000	0.47509
82	Acenaphthene	153	5.847	5.847	(1.005)	185266	0.50000	0.48985
83	2,4-Dinitrophenol	184	5.836	5.836	(1.003)	30304	1.00000	1.3964(Q)
85	4-Nitrophenol	109	5.847	5.847	(1.005)	20112	0.50000	0.40352
86	Dibenzofuran	168	5.970	5.970	(1.026)	250069	0.50000	0.49218
87	2,4-Dinitrotoluene	165	5.927	5.927	(1.018)	55926	0.50000	0.44556
91	2,3,5,6-Tetrachlorophenol	232	6.013	6.013	(1.033)	42041	0.50000	0.44246
93	Diethylphthalate	149	6.082	6.082	(1.045)	205295	0.50000	0.48678
94	Fluorene	166	6.216	6.216	(1.068)	211161	0.50000	0.48908
95	4-Chlorophenyl-phenylether	204	6.200	6.200	(1.065)	90573	0.50000	0.47098
96	4-Nitroaniline	138	6.211	6.211	(1.067)	45481	0.50000	0.42234
98	4,6-Dinitro-2-methylphenol	198	6.227	6.227	(0.901)	19550	0.50000	0.62538
99	N-Nitrosodiphenylamine	169	6.280	6.280	(0.909)	145309	0.50000	0.48078
100	1,2-Diphenylhydrazine	77	6.312	6.312	(0.913)	198568	0.50000	0.48115
106	4-Bromophenyl-phenylether	248	6.558	6.558	(0.949)	52368	0.50000	0.48276
107	Hexachlorobenzene	284	6.617	6.617	(0.957)	51258	0.50000	0.48058
212	Atrazine	200	6.644	6.644	(0.961)	35704	0.50000	0.47437
111	Pentachlorophenol	266	6.751	6.751	(0.977)	61145	1.00000	0.99227
115	Phenanthrene	178	6.928	6.928	(1.002)	297207	0.50000	0.48534
116	Anthracene	178	6.965	6.965	(1.008)	295074	0.50000	0.47838
119	Carbazole	167	7.067	7.067	(1.022)	272458	0.50000	0.47331
120	Di-n-Butylphthalate	149	7.270	7.270	(1.052)	335581	0.50000	0.48034
123	Fluoranthene	202	7.805	7.805	(1.129)	301022	0.50000	0.47970
124	Benzidine	184	7.869	7.869	(0.884)	164543	0.50000	0.45796
125	Pyrene	202	7.976	7.976	(0.896)	320740	0.50000	0.49236
131	Butylbenzylphthalate	149	8.393	8.393	(0.943)	148625	0.50000	0.48794
133	3,3'-Dimethoxybenzidine	244	8.794	8.794	(0.988)	64696	0.50000	0.49025
135	3,3'-Dichlorobenzidine	252	8.837	8.837	(0.993)	109564	0.50000	0.48117
136	Benzo(a)Anthracene	228	8.890	8.890	(0.999)	299985	0.50000	0.47965

137 Chrysene	228	8.923	8.923 (1.002)	291539	0.50000	0.49400
138 4,4'-Methylene bis(o-chloroan	231	8.832	8.832 (0.992)	55833	0.50000	0.46788

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.810	8.810	(0.990)	210460	0.50000	0.48483
140	Di-n-octylphthalate	149	9.404	9.404	(0.899)	336245	0.50000	0.46720
141	Benzo(b)fluoranthene	252	9.966	9.966	(0.953)	277636	0.50000	0.47081
142	Benzo(k)fluoranthene	252	9.998	9.998	(0.956)	308425	0.50000	0.49153
146	Benzo(a)pyrene	252	10.388	10.388	(0.993)	271902	0.50000	0.48030
149	Indeno(1,2,3-cd)pyrene	276	12.169	12.169	(1.164)	301261	0.50000	0.47620
150	Dibenz(a,h)anthracene	278	12.191	12.191	(1.166)	258065	0.50000	0.48458
151	Benzo(g,h,i)perylene	276	12.699	12.699	(1.214)	251454	0.50000	0.47634
198	1,4-Dioxane	88	1.852	1.852	(0.507)	36446	0.50000	0.51885
$ 154	Nitrobenzene-d5	82	4.029	4.029	(0.886)	97731	0.50000	0.48327
$ 155	2-Fluorobiphenyl	172	5.307	5.307	(0.912)	201197	0.50000	0.49366
$ 156	Terphenyl-d14	244	8.051	8.051	(0.904)	194844	0.50000	0.49085
$ 157	Phenol-d5	99	3.344	3.344	(0.915)	118362	0.50000	0.48426
$ 158	2-Fluorophenol	112	2.772	2.772	(0.759)	88661	0.50000	0.47924
$ 159	2,4,6-Tribromophenol	330	6.393	6.393	(1.098)	20235	0.50000	0.42442
$ 186	2-Chlorophenol-d4	132	3.494	3.494	(0.956)	94614	0.50000	0.48968
$ 187	1,2-Dichlorobenzene-d4	152	3.761	3.761	(1.029)	63728	0.50000	0.48884
M 195	Cresols, total	100				185459	0.50000	
101	Diphenylamine	169	6.280	6.280	(0.909)	145309	0.50000	0.48078

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SML0305.D
Lab Smp Id: l3
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Misc Info:

Calibration Date: 05-MAR-2010
Calibration Time: 12:55
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	224917	112459	449834	326248	45.05
2 Naphthalene-d8	988164	494082	1976328	1338460	35.45
3 Acenaphthene-d10	560713	280357	1121426	706468	25.99
4 Phenanthrene-d10	953385	476693	1906770	1127266	18.24
5 Chrysene-d12	1158460	579230	2316920	1263608	9.08
6 Perylene-d12	1037564	518782	2075128	1147290	10.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.65	3.15	4.15	3.65	0.15
2 Naphthalene-d8	4.55	4.05	5.05	4.55	-0.12
3 Acenaphthene-d10	5.82	5.32	6.32	5.82	0.00
4 Phenanthrene-d10	6.91	6.41	7.41	6.91	0.00
5 Chrysene-d12	8.90	8.40	9.40	8.90	0.06
6 Perylene-d12	10.45	9.95	10.95	10.46	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SML0305.D

Page 1

Date : 05-MAR-2010 11:00

Client ID:

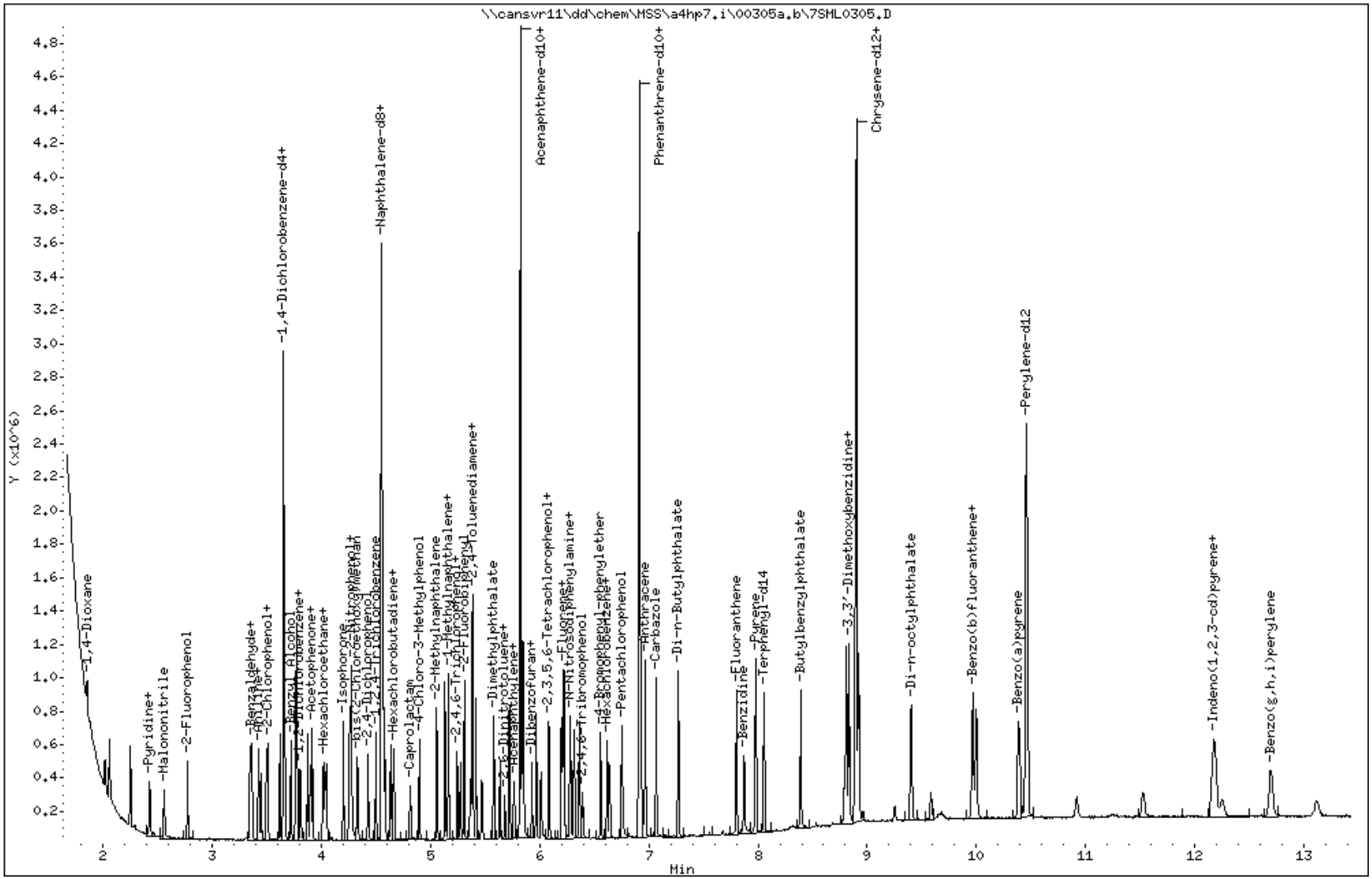
Instrument: a4hp7.i

Sample Info: 13,00305a.b,8270C-625,1-827042d.sub,1,,3

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMM0305.D
Lab Smp Id: l5
Inj Date : 05-MAR-2010 10:22
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l5,00305a.b,8270C-625,1-827042d.sub,1,,5
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Meth Date : 05-Mar-2010 13:14 a4hp7.i Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*	1 1,4-Dichlorobenzene-d4	152	3.654	3.654	(1.000)	322021	2.00000	
*	2 Naphthalene-d8	136	4.553	4.553	(1.000)	1337702	2.00000	
*	3 Acenaphthene-d10	164	5.820	5.820	(1.000)	707607	2.00000	
*	4 Phenanthrene-d10	188	6.911	6.911	(1.000)	1129286	2.00000	
*	5 Chrysene-d12	240	8.912	8.912	(1.000)	1278384	2.00000	
*	6 Perylene-d12	264	10.474	10.474	(1.000)	1175455	2.00000	
	9 Pyridine	79	2.049	2.049	(0.561)	479194	2.50000	2.6073
	10 N-Nitrosodimethylamine	74	2.012	2.012	(0.551)	266793	2.50000	2.4952
	11 Ethyl methacrylate	69	2.247	2.247	(0.615)	405044	2.50000	2.5113
	12 3-Chloropropionitrile	54	2.424	2.424	(0.663)	297685	2.50000	2.4381
	13 Malononitrile	66	2.563	2.563	(0.701)	598205	2.50000	2.5046
	209 Benzaldehyde	77	3.365	3.365	(0.921)	345733	2.50000	2.6764
	21 Aniline	93	3.424	3.424	(0.937)	782467	2.50000	2.5137
	22 Phenol	94	3.355	3.355	(0.918)	636024	2.50000	2.4934
	23 bis(2-Chloroethyl)ether	93	3.445	3.445	(0.943)	524496	2.50000	2.4574
	24 2-Chlorophenol	128	3.510	3.510	(0.960)	515988	2.50000	2.4933
	26 1,3-Dichlorobenzene	146	3.617	3.617	(0.990)	521956	2.50000	2.4766
	27 1,4-Dichlorobenzene	146	3.665	3.665	(1.003)	514967	2.50000	2.4717
	28 1,2-Dichlorobenzene	146	3.772	3.772	(1.032)	502241	2.50000	2.4952
	29 Benzyl Alcohol	108	3.724	3.724	(1.019)	333933	2.50000	2.4573
	30 2-Methylphenol	108	3.777	3.777	(1.034)	457651	2.50000	2.4390
	31 bis(2-Chloroisopropyl)ether	45	3.809	3.809	(1.042)	736517	2.50000	2.4424
	37 Acetophenone	105	3.916	3.916	(1.072)	672473	2.50000	2.4644
	32 N-Nitroso-di-n-propylamine	70	3.900	3.900	(1.067)	361204	2.50000	2.4773
	192 4-Methylphenol	108	3.879	3.879	(1.061)	490641	2.50000	2.4948
	34 Hexachloroethane	117	4.012	4.012	(1.098)	191354	2.50000	2.4572
	35 Nitrobenzene	77	4.045	4.045	(0.888)	501638	2.50000	2.5127
	41 Isophorone	82	4.205	4.205	(0.924)	979374	2.50000	2.4513
	42 2-Nitrophenol	139	4.269	4.269	(0.938)	268891	2.50000	2.5162
	43 2,4-Dimethylphenol	107	4.258	4.258	(0.935)	496326	2.50000	2.4868
	44 bis(2-Chloroethoxy)methane	93	4.333	4.333	(0.952)	571224	2.50000	2.4567

46	2,4-Toluenediamene	121	5.371	5.371 (1.180)	320824	2.50000	2.6283
47	1,3,5-Trichlorobenzene	180	4.274	4.274 (0.939)	429799	2.50000	2.5000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.430	4.430	(0.973)	390380	2.50000	2.5016
49	Benzoic Acid	122	4.307	4.307	(0.946)	621438	5.00000	4.7645
50	1,2,4-Trichlorobenzene	180	4.499	4.499	(0.988)	425715	2.50000	2.5018
51	Naphthalene	128	4.569	4.569	(1.004)	1533925	2.50000	2.4800
52	4-Chloroaniline	127	4.585	4.585	(1.007)	642425	2.50000	2.4073
56	Hexachlorobutadiene	225	4.633	4.633	(1.018)	217955	2.50000	2.4569
210	Caprolactam	113	4.831	4.831	(1.061)	171719	2.50000	2.4268
57	1,2,3-Trichlorobenzene	180	4.665	4.665	(1.025)	400527	2.50000	2.4914
59	4-Chloro-3-Methylphenol	107	4.900	4.900	(1.076)	429897	2.50000	2.4463
62	2-Methylnaphthalene	142	5.061	5.061	(1.112)	835972	2.50000	2.4826
63	1-Methylnaphthalene	142	5.136	5.136	(1.128)	954255	2.50000	2.4645
64	Hexachlorocyclopentadiene	237	5.162	5.162	(0.887)	210994	2.50000	2.5980
66	2,4,6-Trichlorophenol	196	5.248	5.248	(0.902)	266059	2.50000	2.5242
67	2,4,5-Trichlorophenol	196	5.275	5.275	(0.906)	284744	2.50000	2.5151
211	1,1'-Biphenyl	154	5.387	5.387	(0.926)	1218409	2.50000	2.5247
68	1,2,3,5-Tetrachlorobenzene	216	5.168	5.168	(0.888)	411632	2.50000	2.5535
70	2-Chloronaphthalene	162	5.419	5.419	(0.931)	892612	2.50000	2.4900
73	2-Nitroaniline	65	5.473	5.473	(0.940)	262362	2.50000	2.4937
74	1,2,3,4-Tetrachlorobenzene	216	5.387	5.387	(0.926)	374103	2.50000	2.5098
76	Dimethylphthalate	163	5.585	5.585	(0.960)	1012086	2.50000	2.4557
78	2,6-Dinitrotoluene	165	5.638	5.638	(0.969)	231226	2.50000	2.5146
79	Acenaphthylene	152	5.724	5.724	(0.983)	1473432	2.50000	2.5016
80	1,2-Dinitrobenzene	168	5.687	5.687	(0.977)	116249	2.50000	2.5380
81	3-Nitroaniline	138	5.767	5.767	(0.991)	256464	2.50000	2.4936
82	Acenaphthene	153	5.847	5.847	(1.005)	944652	2.50000	2.4937
83	2,4-Dinitrophenol	184	5.842	5.842	(1.004)	275100	5.00000	4.4850(Q)
85	4-Nitrophenol	109	5.852	5.852	(1.006)	120485	2.50000	2.4135
86	Dibenzofuran	168	5.970	5.970	(1.026)	1254254	2.50000	2.4646
87	2,4-Dinitrotoluene	165	5.933	5.933	(1.019)	315565	2.50000	2.5100
91	2,3,5,6-Tetrachlorophenol	232	6.013	6.013	(1.033)	238481	2.50000	2.5058
93	Diethylphthalate	149	6.088	6.088	(1.046)	1023835	2.50000	2.4237
94	Fluorene	166	6.221	6.221	(1.069)	1062014	2.50000	2.4558
95	4-Chlorophenyl-phenylether	204	6.200	6.200	(1.065)	473591	2.50000	2.4587
96	4-Nitroaniline	138	6.211	6.211	(1.067)	267755	2.50000	2.4824
98	4,6-Dinitro-2-methylphenol	198	6.232	6.232	(0.902)	159258	2.50000	2.3840
99	N-Nitrosodiphenylamine	169	6.280	6.280	(0.909)	764333	2.50000	2.5244
100	1,2-Diphenylhydrazine	77	6.318	6.318	(0.914)	1038690	2.50000	2.5123
106	4-Bromophenyl-phenylether	248	6.564	6.564	(0.950)	271481	2.50000	2.4982
107	Hexachlorobenzene	284	6.623	6.623	(0.958)	263569	2.50000	2.4667
212	Atrazine	200	6.644	6.644	(0.961)	191107	2.50000	2.5345
111	Pentachlorophenol	266	6.756	6.756	(0.978)	371621	5.00000	4.9277
115	Phenanthrene	178	6.933	6.933	(1.003)	1512695	2.50000	2.4658
116	Anthracene	178	6.970	6.970	(1.009)	1543994	2.50000	2.4987
119	Carbazole	167	7.066	7.066	(1.022)	1445969	2.50000	2.5074
120	Di-n-Butylphthalate	149	7.270	7.270	(1.052)	1757907	2.50000	2.5117
123	Fluoranthene	202	7.805	7.805	(1.129)	1552104	2.50000	2.4690
124	Benzidine	184	7.874	7.874	(0.884)	975572	2.50000	2.6838
125	Pyrene	202	7.981	7.981	(0.896)	1650896	2.50000	2.5049
131	Butylbenzylphthalate	149	8.398	8.398	(0.942)	772651	2.50000	2.5073
133	3,3'-Dimethoxybenzidine	244	8.799	8.799	(0.987)	351016	2.50000	2.6292
135	3,3'-Dichlorobenzidine	252	8.848	8.848	(0.993)	580656	2.50000	2.5206
136	Benzo(a)Anthracene	228	8.901	8.901	(0.999)	1570366	2.50000	2.4819

137	Chrysene	228	8.933	8.933 (1.002)	1488904	2.50000	2.4937
138	4,4'-Methylene bis(o-chloroan	231	8.842	8.842 (0.992)	301051	2.50000	2.4936

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
	139 bis(2-ethylhexyl)Phthalate	149	8.821	8.821	(0.990)	1093410	2.50000	2.4897
	140 Di-n-octylphthalate	149	9.415	9.415	(0.899)	1831631	2.50000	2.4840
	141 Benzo(b)fluoranthene	252	9.981	9.981	(0.953)	1501634	2.50000	2.4854
	142 Benzo(k)fluoranthene	252	10.014	10.014	(0.956)	1565133	2.50000	2.4346
	146 Benzo(a)pyrene	252	10.399	10.399	(0.993)	1435150	2.50000	2.4744
	149 Indeno(1,2,3-cd)pyrene	276	12.190	12.190	(1.164)	1637282	2.50000	2.5260
	150 Dibenz(a,h)anthracene	278	12.212	12.212	(1.166)	1371511	2.50000	2.5136
	151 Benzo(g,h,i)perylene	276	12.725	12.725	(1.215)	1347296	2.50000	2.4911
	198 1,4-Dioxane	88	1.846	1.846	(0.505)	176962	2.50000	2.5523
$	154 Nitrobenzene-d5	82	4.034	4.034	(0.886)	512000	2.50000	2.5332
$	155 2-Fluorobiphenyl	172	5.307	5.307	(0.912)	1022631	2.50000	2.5051
$	156 Terphenyl-d14	244	8.056	8.056	(0.904)	1011207	2.50000	2.5180
$	157 Phenol-d5	99	3.344	3.344	(0.915)	596588	2.50000	2.4729
$	158 2-Fluorophenol	112	2.772	2.772	(0.759)	445141	2.50000	2.4377
$	159 2,4,6-Tribromophenol	330	6.393	6.393	(1.098)	116817	2.50000	2.4462
$	186 2-Chlorophenol-d4	132	3.494	3.494	(0.956)	472732	2.50000	2.4788
$	187 1,2-Dichlorobenzene-d4	152	3.761	3.761	(1.029)	319416	2.50000	2.4823
M	195 Cresols, total	100				948292	2.50000	
	101 Diphenylamine	169	6.280	6.280	(0.909)	764333	2.50000	2.5244

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: 7SMM0305.D
Lab Smp Id: l5
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Misc Info:

Calibration Date: 05-MAR-2010
Calibration Time: 12:55
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	224917	112459	449834	322021	43.17
2 Naphthalene-d8	988164	494082	1976328	1337702	35.37
3 Acenaphthene-d10	560713	280357	1121426	707607	26.20
4 Phenanthrene-d10	953385	476693	1906770	1129286	18.45
5 Chrysene-d12	1158460	579230	2316920	1278384	10.35
6 Perylene-d12	1037564	518782	2075128	1175455	13.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.65	3.15	4.15	3.65	0.14
2 Naphthalene-d8	4.55	4.05	5.05	4.55	-0.00
3 Acenaphthene-d10	5.82	5.32	6.32	5.82	-0.00
4 Phenanthrene-d10	6.91	6.41	7.41	6.91	-0.00
5 Chrysene-d12	8.90	8.40	9.40	8.91	0.18
6 Perylene-d12	10.45	9.95	10.95	10.47	0.20

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMM0305.D

Date : 05-MAR-2010 10:22

Client ID:

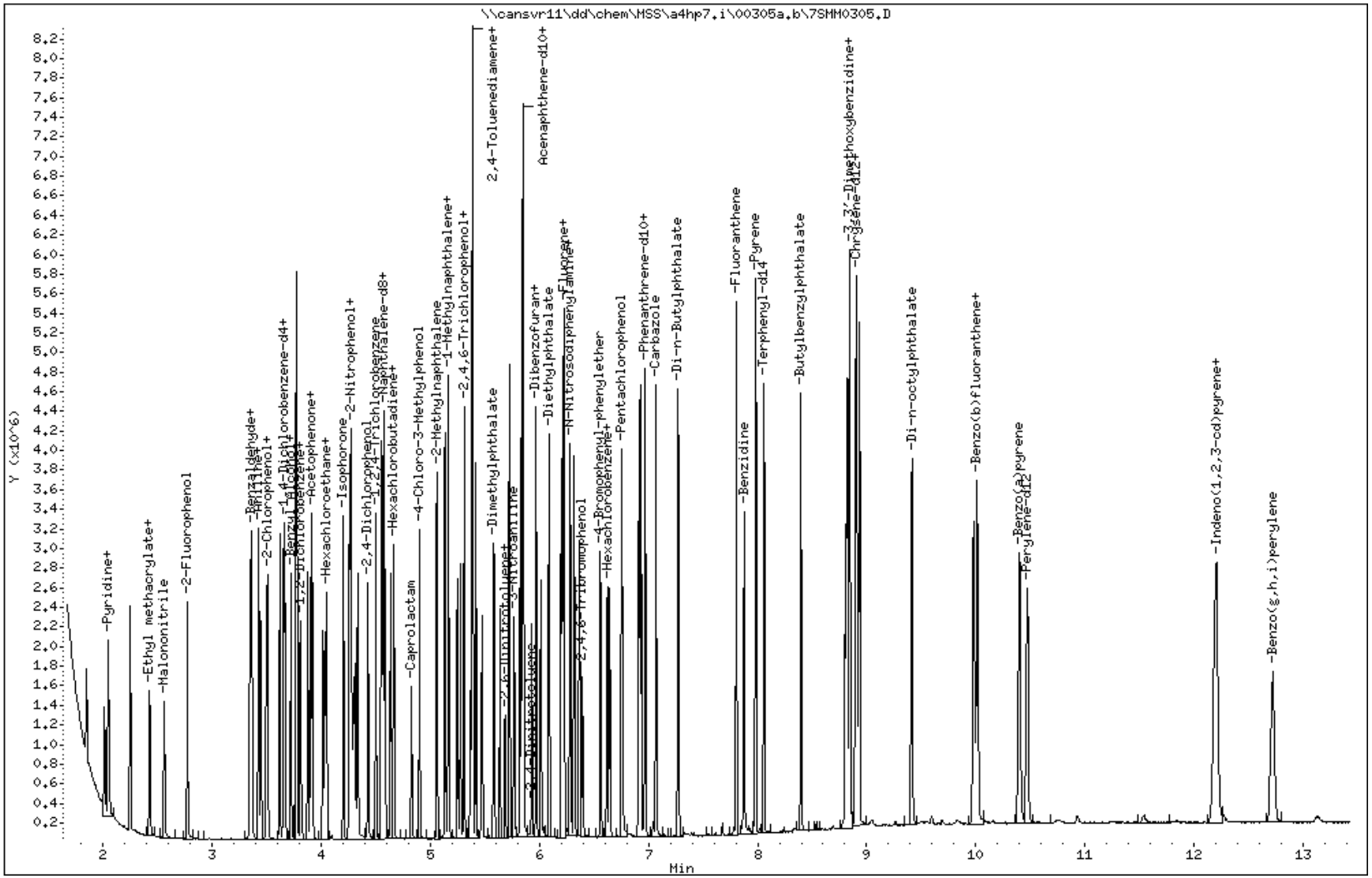
Instrument: a4hp7.i

Sample Info: 15,00305a.b,8270C-625,1-827042d.sub,1,,5

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 05-MAR-2010 13:14
Lab File ID: ICVTCL.D Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Analysis Type: Init. Cal. Times: 10:22 12:55
Lab Sample ID: icvtcl Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
9 Pyridine	1.14147	1.15476	1.15476	0.010	-1.16486	50.00000	Averaged
10 N-Nitrosodimethylamine	0.66406	0.62036	0.62036	0.010	6.58004	50.00000	Averaged
11 Ethyl methacrylate	1.00174	1.01034	1.01034	0.010	-0.85853	50.00000	Averaged
12 3-Chloropropionitrile	0.75832	0.74982	0.74982	0.010	1.12118	50.00000	Averaged
13 Malononitrile	1.48337	1.43120	1.43120	0.010	3.51707	50.00000	Averaged
209 Benzaldehyde	0.80229	0.78696	0.78696	0.010	1.90996	50.00000	Averaged
21 Aniline	1.93328	1.82961	1.82961	0.010	5.36278	50.00000	Averaged
22 Phenol	1.58424	1.53261	1.53261	0.010	3.25879	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.32560	1.40920	1.40920	0.010	-6.30637	50.00000	Averaged
24 2-Chlorophenol	1.28531	1.26689	1.26689	0.010	1.43263	50.00000	Averaged
26 1,3-Dichlorobenzene	1.30893	1.28884	1.28884	0.010	1.53450	50.00000	Averaged
27 1,4-Dichlorobenzene	1.29397	1.27296	1.27296	0.010	1.62412	20.00000	Averaged
28 1,2-Dichlorobenzene	1.25010	1.22780	1.22780	0.010	1.78449	50.00000	Averaged
29 Benzyl Alcohol	0.84401	0.82661	0.82661	0.010	2.06159	50.00000	Averaged
30 2-Methylphenol	1.16536	1.14016	1.14016	0.010	2.16243	50.00000	Averaged
31 bis(2-Chloroisopropyl)ether	1.87289	1.89450	1.89450	0.010	-1.15385	50.00000	Averaged
37 Acetophenone	1.69476	1.68195	1.68195	0.010	0.75552	50.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.90557	0.92140	0.92140	0.050	-1.74771	50.00000	Averaged
192 4-Methylphenol	1.22143	1.19349	1.19349	0.010	2.28745	50.00000	Averaged
34 Hexachloroethane	0.48366	0.49116	0.49116	0.010	-1.55244	50.00000	Averaged
35 Nitrobenzene	0.29849	0.29864	0.29864	0.010	-0.05044	50.00000	Averaged
41 Isophorone	0.59735	0.60905	0.60905	0.010	-1.95852	50.00000	Averaged
42 2-Nitrophenol	0.15978	0.16507	0.16507	0.010	-3.31373	20.00000	Averaged
43 2,4-Dimethylphenol	0.29840	0.29827	0.29827	0.010	0.04322	50.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.34764	0.35194	0.35194	0.010	-1.23611	50.00000	Averaged
46 2,4-Toluenediamene	0.18250	0.17627	0.17627	0.010	3.41335	50.00000	Averaged
47 1,3,5-Trichlorobenzene	0.25703	0.25492	0.25492	0.010	0.81989	50.00000	Averaged
48 2,4-Dichlorophenol	0.23331	0.23311	0.23311	0.010	0.08546	20.00000	Averaged
49 Benzoic Acid	10.00000	9.80173	0.21074	0.010	1.98266	0.000e+000	Quadratic
50 1,2,4-Trichlorobenzene	0.25441	0.25570	0.25570	0.010	-0.50801	50.00000	Averaged
51 Naphthalene	0.92476	0.91434	0.91434	0.010	1.12681	50.00000	Averaged
52 4-Chloroaniline	0.39899	0.38409	0.38409	0.010	3.73388	50.00000	Averaged
56 Hexachlorobutadiene	0.13263	0.13430	0.13430	0.010	-1.25920	20.00000	Averaged
210 Caprolactam	0.10579	0.10829	0.10829	0.010	-2.36198	50.00000	Averaged
57 1,2,3-Trichlorobenzene	0.24036	0.24103	0.24103	0.010	-0.27805	50.00000	Averaged
59 4-Chloro-3-Methylphenol	0.26274	0.26519	0.26519	0.010	-0.93272	20.00000	Averaged
62 2-Methylnaphthalene	0.50344	0.51101	0.51101	0.010	-1.50373	50.00000	Averaged
63 1-Methylnaphthalene	0.57890	0.58418	0.58418	0.010	-0.91307	50.00000	Averaged
64 Hexachlorocyclopentadiene	5.00000	5.18435	0.25026	0.050	-3.68699	0.000e+000	Quadratic
66 2,4,6-Trichlorophenol	0.29791	0.30523	0.30523	0.010	-2.45762	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.31999	0.32985	0.32985	0.010	-3.08122	50.00000	Averaged
211 1,1'-Biphenyl	1.36402	1.35938	1.35938	0.010	0.34041	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 05-MAR-2010 13:14
Lab File ID: ICVTCL.D Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Analysis Type: Init. Cal. Times: 10:22 12:55
Lab Sample ID: icvtcl Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
68 1,2,3,5-Tetrachlorobenzene	0.45563	0.45418	0.45418	0.010	0.31942	50.00000	Averaged
70 2-Chloronaphthalene	1.01322	0.98759	0.98759	0.010	2.52980	50.00000	Averaged
73 2-Nitroaniline	0.29737	0.30209	0.30209	0.010	-1.58743	50.00000	Averaged
74 1,2,3,4-Tetrachlorobenzene	0.42129	0.41208	0.41208	0.010	2.18540	50.00000	Averaged
76 Dimethylphthalate	1.16489	1.17831	1.17831	0.010	-1.15244	50.00000	Averaged
78 2,6-Dinitrotoluene	0.25990	0.27457	0.27457	0.010	-5.64198	50.00000	Averaged
79 Acenaphthylene	1.66478	1.65682	1.65682	0.010	0.47758	50.00000	Averaged
80 1,2-Dinitrobenzene	0.12946	0.13487	0.13487	0.010	-4.17790	50.00000	Averaged
81 3-Nitroaniline	0.29070	0.29271	0.29271	0.010	-0.69328	50.00000	Averaged
82 Acenaphthene	1.07070	1.05814	1.05814	0.010	1.17349	20.00000	Averaged
83 2,4-Dinitrophenol	10.00000	9.81186	0.19257	0.050	1.88143	0.000e+000	Quadratic
85 4-Nitrophenol	0.14110	0.14225	0.14225	0.050	-0.81622	50.00000	Averaged
86 Dibenzofuran	1.43837	1.41537	1.41537	0.010	1.59880	50.00000	Averaged
87 2,4-Dinitrotoluene	0.35534	0.36825	0.36825	0.010	-3.63065	50.00000	Averaged
91 2,3,5,6-Tetrachlorophenol	0.26899	0.28454	0.28454	0.010	-5.77956	50.00000	Averaged
93 Diethylphthalate	1.19394	1.23516	1.23516	0.010	-3.45261	50.00000	Averaged
94 Fluorene	1.22227	1.21372	1.21372	0.010	0.69914	50.00000	Averaged
95 4-Chlorophenyl-phenylether	0.54442	0.55788	0.55788	0.010	-2.47140	50.00000	Averaged
96 4-Nitroaniline	0.30486	0.31159	0.31159	0.010	-2.20510	50.00000	Averaged
98 4,6-Dinitro-2-methylphenol	5.00000	5.08518	0.13322	0.010	-1.70355	0.000e+000	Quadratic
99 N-Nitrosodiphenylamine	0.53622	0.54603	0.54603	0.010	-1.82929	20.00000	Averaged
100 1,2-Diphenylhydrazine	0.73220	0.75339	0.75339	0.010	-2.89363	50.00000	Averaged
106 4-Bromophenyl-phenylether	0.19246	0.19869	0.19869	0.010	-3.23618	50.00000	Averaged
107 Hexachlorobenzene	0.18923	0.19366	0.19366	0.010	-2.34177	50.00000	Averaged
212 Atrazine	0.13354	0.14284	0.14284	0.010	-6.96177	50.00000	Averaged
111 Pentachlorophenol	10.00000	10.29863	0.14261	0.010	-2.98633	0.000e+000	Quadratic
115 Phenanthrene	1.08647	1.09786	1.09786	0.010	-1.04847	50.00000	Averaged
116 Anthracene	1.09436	1.10352	1.10352	0.010	-0.83720	50.00000	Averaged
119 Carbazole	1.02131	1.02436	1.02436	0.010	-0.29801	50.00000	Averaged
120 Di-n-Butylphthalate	1.23953	1.32195	1.32195	0.010	-6.64928	50.00000	Averaged
123 Fluoranthene	1.11335	1.13177	1.13177	0.010	-1.65485	20.00000	Averaged
124 Benzidine	0.56868	0.60571	0.60571	0.010	-6.51149	50.00000	Averaged
125 Pyrene	1.03108	1.02911	1.02911	0.010	0.19038	50.00000	Averaged
131 Butylbenzylphthalate	0.48210	0.50153	0.50153	0.010	-4.02954	50.00000	Averaged
133 3,3'-Dimethoxybenzidine	0.20887	0.21100	0.21100	0.010	-1.01997	50.00000	Averaged
135 3,3'-Dichlorobenzidine	0.36040	0.36881	0.36881	0.010	-2.33336	50.00000	Averaged
136 Benzo(a)Anthracene	0.98989	0.96779	0.96779	0.010	2.23323	50.00000	Averaged
137 Chrysene	0.93409	0.91557	0.91557	0.010	1.98300	50.00000	Averaged
138 4,4'-Methylene bis(o-chloro	0.18888	0.19531	0.19531	0.010	-3.40700	50.00000	Averaged
139 bis(2-ethylhexyl)Phthalate	0.68706	0.71358	0.71358	0.010	-3.86011	50.00000	Averaged
140 Di-n-octylphthalate	1.25460	1.34538	1.34538	0.010	-7.23600	20.00000	Averaged
141 Benzo(b)fluoranthene	1.02799	1.02835	1.02835	0.010	-0.03542	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 05-MAR-2010 13:14
Lab File ID: ICVTCL.D Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Analysis Type: Init. Cal. Times: 10:22 12:55
Lab Sample ID: icvtcl Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
142 Benzo(k)fluoranthene	1.09384	1.13667	1.13667	0.010	-3.91612	50.00000	Averaged
146 Benzo(a)pyrene	0.98685	0.99401	0.99401	0.010	-0.72518	20.00000	Averaged
149 Indeno(1,2,3-cd)pyrene	1.10283	1.12654	1.12654	0.010	-2.14939	50.00000	Averaged
150 Dibenz(a,h)anthracene	0.92837	0.94604	0.94604	0.010	-1.90257	50.00000	Averaged
151 Benzo(g,h,i)perylene	0.92024	0.92676	0.92676	0.010	-0.70798	50.00000	Averaged
198 1,4-Dioxane	0.43061	0.37821	0.37821	0.010	12.16858	50.00000	Averaged
$ 154 Nitrobenzene-d5	0.30218	0.30777	0.30777	0.010	-1.85173	50.00000	Averaged
$ 155 2-Fluorobiphenyl	1.15381	1.14776	1.14776	0.010	0.52385	50.00000	Averaged
$ 156 Terphenyl-d14	0.62828	0.64323	0.64323	0.010	-2.37986	50.00000	Averaged
$ 157 Phenol-d5	1.49837	1.45576	1.45576	0.010	2.84398	50.00000	Averaged
$ 158 2-Fluorophenol	1.13412	1.10431	1.10431	0.010	2.62850	50.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.13497	0.14205	0.14205	0.010	-5.24474	50.00000	Averaged
$ 186 2-Chlorophenol-d4	1.18447	1.16354	1.16354	0.010	1.76723	50.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	0.79918	0.78187	0.78187	0.010	2.16605	50.00000	Averaged
M 195 Cresols, total	2.38679	2.33365	2.33365	0.010	2.22641	50.00000	Averaged
101 Diphenylamine	0.53622	0.54603	0.54603	0.010	-1.82929	50.00000	Averaged

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\ICVTCL.D
Lab Smp Id: icvtcl
Inj Date : 05-MAR-2010 13:14
Operator : 001710 Inst ID: a4hp7.i
Smp Info : icvtcl,00305a.b,8270C-625,1-827042d.sub,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Meth Date : 05-Mar-2010 13:30 a4hp7.i Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.654	3.654	(1.000)	301890	2.00000	
* 2	Naphthalene-d8	136	4.553	4.553	(1.000)	1268362	2.00000	
* 3	Acenaphthene-d10	164	5.820	5.820	(1.000)	707376	2.00000	
* 4	Phenanthrene-d10	188	6.911	6.911	(1.000)	1148082	2.00000	
* 5	Chrysene-d12	240	8.901	8.901	(1.000)	1338148	2.00000	
* 6	Perylene-d12	264	10.463	10.463	(1.000)	1204723	2.00000	
9	Pyridine	79	2.044	2.044	(0.559)	871528	5.00000	5.0582
10	N-Nitrosodimethylamine	74	2.012	2.012	(0.551)	468204	5.00000	4.6710
11	Ethyl methacrylate	69	2.242	2.242	(0.614)	762530	5.00000	5.0429
12	3-Chloropropionitrile	54	2.424	2.424	(0.663)	565906	5.00000	4.9439
13	Malononitrile	66	2.563	2.563	(0.701)	1080160	5.00000	4.8241
209	Benzaldehyde	77	3.365	3.365	(0.921)	593940	5.00000	4.9045
21	Aniline	93	3.424	3.424	(0.937)	1380850	5.00000	4.7319
22	Phenol	94	3.354	3.354	(0.918)	1156702	5.00000	4.8371
23	bis(2-Chloroethyl)ether	93	3.445	3.445	(0.943)	1063558	5.00000	5.3153
24	2-Chlorophenol	128	3.510	3.510	(0.960)	956155	5.00000	4.9284
26	1,3-Dichlorobenzene	146	3.617	3.617	(0.990)	972720	5.00000	4.9233
27	1,4-Dichlorobenzene	146	3.665	3.665	(1.003)	960731	5.00000	4.9188
28	1,2-Dichlorobenzene	146	3.772	3.772	(1.032)	926648	5.00000	4.9108
29	Benzyl Alcohol	108	3.724	3.724	(1.019)	623863	5.00000	4.8969
30	2-Methylphenol	108	3.777	3.777	(1.034)	860507	5.00000	4.8919
31	bis(2-Chloroisopropyl)ether	45	3.809	3.809	(1.042)	1429828	5.00000	5.0577
37	Acetophenone	105	3.916	3.916	(1.072)	1269411	5.00000	4.9622
32	N-Nitroso-di-n-propylamine	70	3.905	3.905	(1.069)	695402	5.00000	5.0874
192	4-Methylphenol	108	3.879	3.879	(1.061)	900757	5.00000	4.8856
34	Hexachloroethane	117	4.012	4.012	(1.098)	370694	5.00000	5.0776
35	Nitrobenzene	77	4.044	4.044	(0.888)	946951	5.00000	5.0025
41	Isophorone	82	4.205	4.205	(0.924)	1931241	5.00000	5.0979
42	2-Nitrophenol	139	4.269	4.269	(0.938)	523421	5.00000	5.1657
43	2,4-Dimethylphenol	107	4.258	4.258	(0.935)	945775	5.00000	4.9978

44	bis(2-Chloroethoxy)methane	93	4.333	4.333 (0.952)	1115959	5.00000	5.0618
46	2,4-Toluenediamene	121	5.371	5.371 (1.180)	558938	5.00000	4.8293
47	1,3,5-Trichlorobenzene	180	4.274	4.274 (0.939)	808342	5.00000	4.9590

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.430	4.430	(0.973)	739180	5.00000	4.9957
49	Benzoic Acid	122	4.328	4.328	(0.951)	1336459	10.0000	9.8017
50	1,2,4-Trichlorobenzene	180	4.499	4.499	(0.988)	810798	5.00000	5.0254
51	Naphthalene	128	4.569	4.569	(1.004)	2899297	5.00000	4.9436
52	4-Chloroaniline	127	4.585	4.585	(1.007)	1217918	5.00000	4.8133
56	Hexachlorobutadiene	225	4.633	4.633	(1.018)	425863	5.00000	5.0630
210	Caprolactam	113	4.841	4.841	(1.063)	343374	5.00000	5.1181
57	1,2,3-Trichlorobenzene	180	4.665	4.665	(1.025)	764269	5.00000	5.0139
59	4-Chloro-3-Methylphenol	107	4.900	4.900	(1.076)	840882	5.00000	5.0466
62	2-Methylnaphthalene	142	5.061	5.061	(1.112)	1620374	5.00000	5.0752
63	1-Methylnaphthalene	142	5.136	5.136	(1.128)	1852393	5.00000	5.0456
64	Hexachlorocyclopentadiene	237	5.162	5.162	(0.887)	442574	5.00000	5.1843
66	2,4,6-Trichlorophenol	196	5.248	5.248	(0.902)	539784	5.00000	5.1229
67	2,4,5-Trichlorophenol	196	5.275	5.275	(0.906)	583316	5.00000	5.1541
211	1,1'-Biphenyl	154	5.387	5.387	(0.926)	2403975	5.00000	4.9830
68	1,2,3,5-Tetrachlorobenzene	216	5.168	5.168	(0.888)	803187	5.00000	4.9840
70	2-Chloronaphthalene	162	5.419	5.419	(0.931)	1746487	5.00000	4.8735
73	2-Nitroaniline	65	5.473	5.473	(0.940)	534223	5.00000	5.0794
74	1,2,3,4-Tetrachlorobenzene	216	5.387	5.387	(0.926)	728746	5.00000	4.8907
76	Dimethylphthalate	163	5.585	5.585	(0.960)	2083776	5.00000	5.0576
78	2,6-Dinitrotoluene	165	5.638	5.638	(0.969)	485556	5.00000	5.2821
79	Acenaphthylene	152	5.724	5.724	(0.983)	2929995	5.00000	4.9761
80	1,2-Dinitrobenzene	168	5.686	5.686	(0.977)	238510	5.00000	5.2089
81	3-Nitroaniline	138	5.772	5.772	(0.992)	517641	5.00000	5.0347
82	Acenaphthene	153	5.847	5.847	(1.005)	1871254	5.00000	4.9413
83	2,4-Dinitrophenol	184	5.842	5.842	(1.004)	681084	10.0000	9.8118
85	4-Nitrophenol	109	5.852	5.852	(1.006)	251565	5.00000	5.0408
86	Dibenzofuran	168	5.970	5.970	(1.026)	2502997	5.00000	4.9201
87	2,4-Dinitrotoluene	165	5.932	5.932	(1.019)	651221	5.00000	5.1815
91	2,3,5,6-Tetrachlorophenol	232	6.013	6.013	(1.033)	503186	5.00000	5.2890
93	Diethylphthalate	149	6.088	6.088	(1.046)	2184311	5.00000	5.1726
94	Fluorene	166	6.221	6.221	(1.069)	2146395	5.00000	4.9650
95	4-Chlorophenyl-phenylether	204	6.200	6.200	(1.065)	986569	5.00000	5.1236
96	4-Nitroaniline	138	6.216	6.216	(1.068)	551021	5.00000	5.1102
98	4,6-Dinitro-2-methylphenol	198	6.232	6.232	(0.902)	382374	5.00000	5.0852
99	N-Nitrosodiphenylamine	169	6.286	6.286	(0.909)	1567220	5.00000	5.0915
100	1,2-Diphenylhydrazine	77	6.318	6.318	(0.914)	2162387	5.00000	5.1447
106	4-Bromophenyl-phenylether	248	6.564	6.564	(0.950)	570278	5.00000	5.1618
107	Hexachlorobenzene	284	6.622	6.622	(0.958)	555857	5.00000	5.1171
212	Atrazine	200	6.644	6.644	(0.961)	409966	5.00000	5.3481
111	Pentachlorophenol	266	6.756	6.756	(0.978)	818647	10.0000	10.299
115	Phenanthrene	178	6.933	6.933	(1.003)	3151074	5.00000	5.0524
116	Anthracene	178	6.970	6.970	(1.009)	3167332	5.00000	5.0418
119	Carbazole	167	7.072	7.072	(1.023)	2940110	5.00000	5.0149
120	Di-n-Butylphthalate	149	7.275	7.275	(1.053)	3794257	5.00000	5.3325
123	Fluoranthene	202	7.805	7.805	(1.129)	3248423	5.00000	5.0827
124	Benzidine	184	7.874	7.874	(0.885)	2026336	5.00000	5.3256
125	Pyrene	202	7.981	7.981	(0.897)	3442767	5.00000	4.9905
131	Butylbenzylphthalate	149	8.393	8.393	(0.943)	1677797	5.00000	5.2015
133	3,3'-Dimethoxybenzidine	244	8.794	8.794	(0.988)	705881	5.00000	5.0510
135	3,3'-Dichlorobenzidine	252	8.837	8.837	(0.993)	1233814	5.00000	5.1167
136	Benzo(a)Anthracene	228	8.890	8.890	(0.999)	3237608	5.00000	4.8883

137	Chrysene	228	8.928	8.928 (1.003)	3062904	5.00000	4.9008
138	4,4'-Methylene bis(o-chloroan	231	8.837	8.837 (0.993)	653389	5.00000	5.1704

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.810	8.810	(0.990)	2387203	5.00000	5.1930
140	Di-n-octylphthalate	149	9.398	9.398	(0.898)	4052039	5.00000	5.3618
141	Benzo(b)fluoranthene	252	9.971	9.971	(0.953)	3097197	5.00000	5.0018
142	Benzo(k)fluoranthene	252	10.008	10.008	(0.957)	3423442	5.00000	5.1958
146	Benzo(a)pyrene	252	10.393	10.393	(0.993)	2993766	5.00000	5.0362
149	Indeno(1,2,3-cd)pyrene	276	12.185	12.185	(1.165)	3392917	5.00000	5.1075
150	Dibenz(a,h)anthracene	278	12.206	12.206	(1.167)	2849278	5.00000	5.0951
151	Benzo(g,h,i)perylene	276	12.720	12.720	(1.216)	2791214	5.00000	5.0354
198	1,4-Dioxane	88	1.841	1.841	(0.504)	285448	5.00000	4.3916
$ 154	Nitrobenzene-d5	82	4.034	4.034	(0.886)	975924	5.00000	5.0926
$ 155	2-Fluorobiphenyl	172	5.307	5.307	(0.912)	2029750	5.00000	4.9738
$ 156	Terphenyl-d14	244	8.056	8.056	(0.905)	2151854	5.00000	5.1190
$ 157	Phenol-d5	99	3.344	3.344	(0.915)	1098699	5.00000	4.8578
$ 158	2-Fluorophenol	112	2.771	2.771	(0.759)	833449	5.00000	4.8686
$ 159	2,4,6-Tribromophenol	330	6.398	6.398	(1.099)	251208	5.00000	5.2622
$ 186	2-Chlorophenol-d4	132	3.499	3.499	(0.958)	878149	5.00000	4.9116
$ 187	1,2-Dichlorobenzene-d4	152	3.761	3.761	(1.029)	590098	5.00000	4.8917
M 195	Cresols, total	100				1761264	5.00000	
101	Diphenylamine	169	6.286	6.286	(0.909)	1567220	5.00000	5.0915

Report Date: 05-Mar-2010 13:30

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

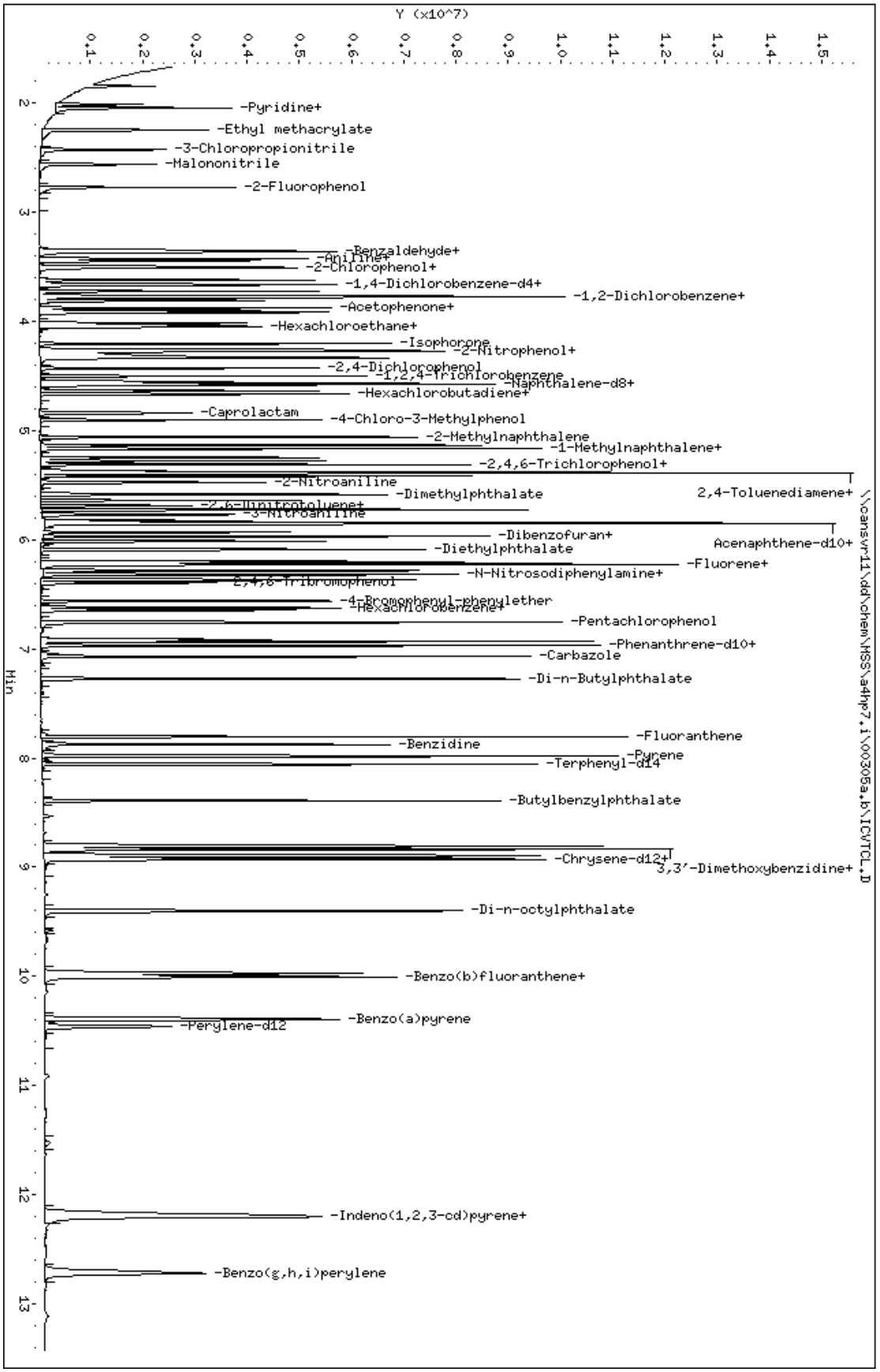
Instrument ID: a4hp7.i
Lab File ID: ICVTCL.D
Lab Smp Id: icvtcl
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\8270C-625.m
Misc Info:

Calibration Date: 05-MAR-2010
Calibration Time: 12:55
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	224917	112459	449834	301890	34.22
2 Naphthalene-d8	988164	494082	1976328	1268362	28.36
3 Acenaphthene-d10	560713	280357	1121426	707376	26.16
4 Phenanthrene-d10	953385	476693	1906770	1148082	20.42
5 Chrysene-d12	1158460	579230	2316920	1338148	15.51
6 Perylene-d12	1037564	518782	2075128	1204723	16.11

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.65	3.15	4.15	3.65	0.14
2 Naphthalene-d8	4.55	4.05	5.05	4.55	-0.00
3 Acenaphthene-d10	5.82	5.32	6.32	5.82	-0.00
4 Phenanthrene-d10	6.91	6.41	7.41	6.91	-0.00
5 Chrysene-d12	8.90	8.40	9.40	8.90	0.06
6 Perylene-d12	10.45	9.95	10.95	10.46	0.10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\ICVTCL.D
Date : 05-MAR-2010 13:14
Client ID:
Sample Info: icvtcl,00305a,b,8270C-625,1-8270424,sub,2
Column phase: db5.625

Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32

Report Date: 08-Mar-2010 10:38

Calibration History

Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Start Cal Date: 05-MAR-2010 10:22
End Cal Date : 05-MAR-2010 12:55
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
05-MAR-2010 11:38	pah	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SLL0305.D
Cal Level: 2 , Cal Amount: 0.25000		
05-MAR-2010 11:19	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SL0305.D
Cal Level: 3 , Cal Amount: 0.50000		
05-MAR-2010 11:00	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SML0305.D
Cal Level: 4 , Cal Amount: 1.00000		
05-MAR-2010 10:41	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SM0305.D
Cal Level: 5 , Cal Amount: 2.50000		
05-MAR-2010 10:22	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMM0305.D
Cal Level: 6 , Cal Amount: 5.00000		
05-MAR-2010 12:55	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMH0305.D
Cal Level: 7 , Cal Amount: 7.50000		
05-MAR-2010 12:36	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SH0305.D
Cal Level: 8 , Cal Amount: 10.00000		

05-MAR-2010 12:17	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHH0305.D		

Cal Level: 9 , Cal Amount: 12.50000		
05-MAR-2010 11:57	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHHH0305.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

08-MAR-2010 10:16	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\7SMH0308.D		

TestAmerica North Canton

OKMW 3/9/10

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i
Lab File ID: 7SMH0308.D
Analysis Type:
Lab Sample ID: 16
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m

Injection Date: 08-MAR-2010 10:16
Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Init. Cal. Times: 10:22 12:55
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
9 Pyridine	1.14147	1.22622	1.22622	0.010	-7.42480	50.00000	Averaged
10 N-Nitrosodimethylamine	0.66406	0.66617	0.66617	0.010	-0.31776	50.00000	Averaged
11 Ethyl methacrylate	1.00174	1.01243	1.01243	0.010	-1.06747	50.00000	Averaged
12 3-Chloropropionitrile	0.75832	0.75963	0.75963	0.010	-0.17317	50.00000	Averaged
13 Malononitrile	1.48337	1.50073	1.50073	0.010	-1.17052	50.00000	Averaged
209 Benzaldehyde	0.80229	0.70584	0.70584	0.010	12.02140	50.00000	Averaged
21 Aniline	1.93328	1.95252	1.95252	0.010	-0.99514	50.00000	Averaged
22 Phenol	1.58424	1.56253	1.56253	0.010	1.37041	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.32560	1.29195	1.29195	0.010	2.53835	50.00000	Averaged
24 2-Chlorophenol	1.28531	1.26858	1.26858	0.010	1.30159	50.00000	Averaged
26 1,3-Dichlorobenzene	1.30893	1.26569	1.26569	0.010	3.30346	50.00000	Averaged
27 1,4-Dichlorobenzene	1.29397	1.25489	1.25489	0.010	3.02033	20.00000	Averaged
28 1,2-Dichlorobenzene	1.25010	1.22078	1.22078	0.010	2.34605	50.00000	Averaged
29 Benzyl Alcohol	0.84401	0.82962	0.82962	0.010	1.70490	50.00000	Averaged
30 2-Methylphenol	1.16536	1.12469	1.12469	0.010	3.48988	50.00000	Averaged
31 bis(2-Chloroisopropyl)ether	1.87289	1.90707	1.90707	0.010	-1.82504	50.00000	Averaged
37 Acetophenone	1.69476	1.66926	1.66926	0.010	1.50418	50.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.90557	0.89362	0.89362	0.050	1.31938	50.00000	Averaged
192 4-Methylphenol	1.22143	1.19728	1.19728	0.010	1.97722	50.00000	Averaged
34 Hexachloroethane	0.48366	0.48317	0.48317	0.010	0.10117	50.00000	Averaged
35 Nitrobenzene	0.29849	0.29922	0.29922	0.010	-0.24665	50.00000	Averaged
41 Isophorone	0.59735	0.58683	0.58683	0.010	1.76069	50.00000	Averaged
42 2-Nitrophenol	0.15978	0.16276	0.16276	0.010	-1.86936	20.00000	Averaged
43 2,4-Dimethylphenol	0.29840	0.29245	0.29245	0.010	1.99299	50.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.34764	0.34386	0.34386	0.010	1.08636	50.00000	Averaged
46 2,4-Toluenediamene	0.18250	0.14340	0.14340	0.010	21.42494	50.00000	Averaged
47 1,3,5-Trichlorobenzene	0.25703	0.24775	0.24775	0.010	3.61138	50.00000	Averaged
48 2,4-Dichlorophenol	0.23331	0.22466	0.22466	0.010	3.71010	20.00000	Averaged
49 Benzoic Acid	10.00000	9.30868	0.19883	0.010	6.91321	0.000e+000	Quadratic
50 1,2,4-Trichlorobenzene	0.25441	0.24417	0.24417	0.010	4.02394	50.00000	Averaged
51 Naphthalene	0.92476	0.88326	0.88326	0.010	4.48769	50.00000	Averaged
52 4-Chloroaniline	0.39899	0.39139	0.39139	0.010	1.90543	50.00000	Averaged
56 Hexachlorobutadiene	0.13263	0.12791	0.12791	0.010	3.56460	20.00000	Averaged
210 Caprolactam	0.10579	0.10338	0.10338	0.010	2.27409	50.00000	Averaged
57 1,2,3-Trichlorobenzene	0.24036	0.23016	0.23016	0.010	4.24074	50.00000	Averaged
59 4-Chloro-3-Methylphenol	0.26274	0.25817	0.25817	0.010	1.73901	20.00000	Averaged
62 2-Methylnaphthalene	0.50344	0.48287	0.48287	0.010	4.08565	50.00000	Averaged
63 1-Methylnaphthalene	0.57890	0.55852	0.55852	0.010	3.52036	50.00000	Averaged
64 Hexachlorocyclopentadiene	5.00000	5.33238	0.25800	0.050	-6.64763	0.000e+000	Quadratic
66 2,4,6-Trichlorophenol	0.29791	0.30110	0.30110	0.010	-1.07011	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.31999	0.30535	0.30535	0.010	4.57409	50.00000	Averaged
211 1,1'-Biphenyl	1.36402	1.32632	1.32632	0.010	2.76387	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 08-MAR-2010 10:16
Lab File ID: 7SMH0308.D Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Analysis Type: Init. Cal. Times: 10:22 12:55
Lab Sample ID: 16 Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
68 1,2,3,5-Tetrachlorobenzene	0.45563	0.43602	0.43602	0.010	4.30525	50.00000	Averaged
70 2-Chloronaphthalene	1.01322	0.97566	0.97566	0.010	3.70648	50.00000	Averaged
73 2-Nitroaniline	0.29737	0.31018	0.31018	0.010	-4.30747	50.00000	Averaged
74 1,2,3,4-Tetrachlorobenzene	0.42129	0.39759	0.39759	0.010	5.62470	50.00000	Averaged
76 Dimethylphthalate	1.16489	1.11118	1.11118	0.010	4.61029	50.00000	Averaged
78 2,6-Dinitrotoluene	0.25990	0.26230	0.26230	0.010	-0.92074	50.00000	Averaged
79 Acenaphthylene	1.66478	1.61243	1.61243	0.010	3.14439	50.00000	Averaged
80 1,2-Dinitrobenzene	0.12946	0.13332	0.13332	0.010	-2.97801	50.00000	Averaged
81 3-Nitroaniline	0.29070	0.30523	0.30523	0.010	-5.00086	50.00000	Averaged
82 Acenaphthene	1.07070	1.02878	1.02878	0.010	3.91579	20.00000	Averaged
83 2,4-Dinitrophenol	10.00000	9.87597	0.19392	0.050	1.24031	0.000e+000	Quadratic
85 4-Nitrophenol	0.14110	0.15836	0.15836	0.050	-12.23468	50.00000	Averaged
86 Dibenzofuran	1.43837	1.37059	1.37059	0.010	4.71218	50.00000	Averaged
87 2,4-Dinitrotoluene	0.35534	0.35622	0.35622	0.010	-0.24752	50.00000	Averaged
91 2,3,5,6-Tetrachlorophenol	0.26899	0.25674	0.25674	0.010	4.55513	50.00000	Averaged
93 Diethylphthalate	1.19394	1.15312	1.15312	0.010	3.41939	50.00000	Averaged
94 Fluorene	1.22227	1.17327	1.17327	0.010	4.00844	50.00000	Averaged
95 4-Chlorophenyl-phenylether	0.54442	0.52336	0.52336	0.010	3.86915	50.00000	Averaged
96 4-Nitroaniline	0.30486	0.33596	0.33596	0.010	-10.19883	50.00000	Averaged
98 4,6-Dinitro-2-methylphenol	5.00000	5.06234	0.13257	0.010	-1.24684	0.000e+000	Quadratic
99 N-Nitrosodiphenylamine	0.53622	0.52718	0.52718	0.010	1.68651	20.00000	Averaged
100 1,2-Diphenylhydrazine	0.73220	0.73948	0.73948	0.010	-0.99365	50.00000	Averaged
106 4-Bromophenyl-phenylether	0.19246	0.18672	0.18672	0.010	2.98449	50.00000	Averaged
107 Hexachlorobenzene	0.18923	0.17888	0.17888	0.010	5.47079	50.00000	Averaged
212 Atrazine	0.13354	0.13146	0.13146	0.010	1.55800	50.00000	Averaged
111 Pentachlorophenol	10.00000	8.16521	0.11185	0.010	18.34794	0.000e+000	Quadratic
115 Phenanthrene	1.08647	1.04384	1.04384	0.010	3.92356	50.00000	Averaged
116 Anthracene	1.09436	1.05551	1.05551	0.010	3.55009	50.00000	Averaged
119 Carbazole	1.02131	1.01484	1.01484	0.010	0.63359	50.00000	Averaged
120 Di-n-Butylphthalate	1.23953	1.23720	1.23720	0.010	0.18754	50.00000	Averaged
123 Fluoranthene	1.11335	1.07393	1.07393	0.010	3.54052	20.00000	Averaged
124 Benzidine	0.56868	0.59934	0.59934	0.010	-5.39105	50.00000	Averaged
125 Pyrene	1.03108	1.00675	1.00675	0.010	2.35969	50.00000	Averaged
131 Butylbenzylphthalate	0.48210	0.47587	0.47587	0.010	1.29257	50.00000	Averaged
133 3,3'-Dimethoxybenzidine	0.20887	0.21961	0.21961	0.010	-5.14297	50.00000	Averaged
135 3,3'-Dichlorobenzidine	0.36040	0.36474	0.36474	0.010	-1.20351	50.00000	Averaged
136 Benzo(a)Anthracene	0.98989	0.98919	0.98919	0.010	0.07065	50.00000	Averaged
137 Chrysene	0.93409	0.88946	0.88946	0.010	4.77757	50.00000	Averaged
138 4,4'-Methylene bis(o-chloro	0.18888	0.18969	0.18969	0.010	-0.42901	50.00000	Averaged
139 bis(2-ethylhexyl)Phthalate	0.68706	0.68085	0.68085	0.010	0.90443	50.00000	Averaged
140 Di-n-octylphthalate	1.25460	1.27270	1.27270	0.010	-1.44258	20.00000	Averaged
141 Benzo(b)fluoranthene	1.02799	0.99863	0.99863	0.010	2.85565	50.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 08-MAR-2010 10:16
Lab File ID: 7SMH0308.D Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Analysis Type: Init. Cal. Times: 10:22 12:55
Lab Sample ID: 16 Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
142 Benzo(k)fluoranthene	1.09384	1.10016	1.10016	0.010	-0.57760	50.00000	Averaged
146 Benzo(a)pyrene	0.98685	0.96846	0.96846	0.010	1.86395	20.00000	Averaged
149 Indeno(1,2,3-cd)pyrene	1.10283	1.08530	1.08530	0.010	1.58976	50.00000	Averaged
150 Dibenz(a,h)anthracene	0.92837	0.92993	0.92993	0.010	-0.16770	50.00000	Averaged
151 Benzo(g,h,i)perylene	0.92024	0.89517	0.89517	0.010	2.72493	50.00000	Averaged
198 1,4-Dioxane	0.43061	0.44690	0.44690	0.010	-3.78226	50.00000	Averaged
$ 154 Nitrobenzene-d5	0.30218	0.30361	0.30361	0.010	-0.47281	50.00000	Averaged
$ 155 2-Fluorobiphenyl	1.15381	1.11907	1.11907	0.010	3.01074	50.00000	Averaged
$ 156 Terphenyl-d14	0.62828	0.61224	0.61224	0.010	2.55275	50.00000	Averaged
$ 157 Phenol-d5	1.49837	1.47022	1.47022	0.010	1.87929	50.00000	Averaged
$ 158 2-Fluorophenol	1.13412	1.11445	1.11445	0.010	1.73384	50.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.13497	0.13023	0.13023	0.010	3.51208	50.00000	Averaged
$ 186 2-Chlorophenol-d4	1.18447	1.16048	1.16048	0.010	2.02551	50.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	0.79918	0.77058	0.77058	0.010	3.57849	50.00000	Averaged
M 195 Cresols, total	2.38679	2.32197	2.32197	0.010	2.71577	50.00000	Averaged
101 Diphenylamine	0.53622	0.52718	0.52718	0.010	1.68651	50.00000	Averaged

Data File: \\cansvr11\dd\chem\HSS\a4hp7.i\00308a.b\7SMH0308.D
Date : 08-MAR-2010 10:16
Client ID:
Sample Info: 16,00308a,b,8270C-625,1-827042d,sub,2
Column phase: db5.625
Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32
Page 1
Y (x10^7)
Min
\\cansvr11\dd\chem\HSS\a4hp7.i\00308a.b\7SMH0308.D
-1,4-Dioxane
-Pyridine+
-Ethyl methacrylate
-3-Chloropropionitrile
-Malononitrile
-2-Fluorophenol
-Benzaldehyde+
-Aniline+
-2-Chlorophenol+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Naphthalene-d8+
-Hexachlorobutadiene+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
2,4-Toluenediamene+
-2-Nitroaniline
-Dimethylphthalate+
-Acenaphthylene+
-Dibenzofuran+
Acenaphthene-d10+
-2,3,4,6-Tetrachlorophenol
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
-Phenanthrene-d10+
-Carbazole
-Di-n-Butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
-3,3'-Dimethoxybenzidine+
-Chrysene-d12+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\7SMH0308.D
Lab Smp Id: 16
Inj Date : 08-MAR-2010 10:16
Operator : 001710 Inst ID: a4hp7.i
Smp Info : 16,00308a.b,8270C-625,1-827042d.sub,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Meth Date : 08-Mar-2010 10:35 GruberJ Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.560	3.560	(1.000)	388613	2.00000	
* 2	Naphthalene-d8	136	4.453	4.453	(1.000)	1628032	2.00000	
* 3	Acenaphthene-d10	164	5.721	5.721	(1.000)	875709	2.00000	
* 4	Phenanthrene-d10	188	6.807	6.807	(1.000)	1398875	2.00000	
* 5	Chrysene-d12	240	8.769	8.769	(1.000)	1597704	2.00000	
* 6	Perylene-d12	264	10.235	10.235	(1.000)	1473841	2.00000	
9	Pyridine	79	1.966	1.966	(0.552)	1191310	5.00000	5.3712
10	N-Nitrosodimethylamine	74	1.929	1.929	(0.542)	647205	5.00000	5.0159
11	Ethyl methacrylate	69	2.164	2.164	(0.608)	983613	5.00000	5.0534
12	3-Chloropropionitrile	54	2.340	2.340	(0.657)	738008	5.00000	5.0086
13	Malononitrile	66	2.485	2.485	(0.698)	1458009	5.00000	5.0585
209	Benzaldehyde	77	3.271	3.271	(0.919)	685746	5.00000	4.3989
21	Aniline	93	3.335	3.335	(0.937)	1896940	5.00000	5.0498
22	Phenol	94	3.271	3.271	(0.919)	1518049	5.00000	4.9315
23	bis(2-Chloroethyl)ether	93	3.357	3.357	(0.943)	1255175	5.00000	4.8731
24	2-Chlorophenol	128	3.415	3.415	(0.959)	1232463	5.00000	4.9349
26	1,3-Dichlorobenzene	146	3.522	3.522	(0.989)	1229655	5.00000	4.8348
27	1,4-Dichlorobenzene	146	3.571	3.571	(1.003)	1219165	5.00000	4.8490
28	1,2-Dichlorobenzene	146	3.678	3.678	(1.033)	1186023	5.00000	4.8827
29	Benzyl Alcohol	108	3.629	3.629	(1.020)	806003	5.00000	4.9148
30	2-Methylphenol	108	3.688	3.688	(1.036)	1092673	5.00000	4.8255
31	bis(2-Chloroisopropyl)ether	45	3.715	3.715	(1.044)	1852783	5.00000	5.0912
37	Acetophenone	105	3.827	3.827	(1.075)	1621744	5.00000	4.9248
32	N-Nitroso-di-n-propylamine	70	3.811	3.811	(1.071)	868184	5.00000	4.9340
192	4-Methylphenol	108	3.790	3.790	(1.065)	1163196	5.00000	4.9011
34	Hexachloroethane	117	3.918	3.918	(1.101)	469412	5.00000	4.9949
35	Nitrobenzene	77	3.950	3.950	(0.887)	1217862	5.00000	5.0123
41	Isophorone	82	4.111	4.111	(0.923)	2388460	5.00000	4.9120
42	2-Nitrophenol	139	4.170	4.170	(0.936)	662455	5.00000	5.0935
43	2,4-Dimethylphenol	107	4.164	4.164	(0.935)	1190289	5.00000	4.9004
44	bis(2-Chloroethoxy)methane	93	4.239	4.239	(0.952)	1399551	5.00000	4.9457
46	2,4-Toluenediamene	121	5.271	5.271	(1.184)	583648	5.00000	3.9288
47	1,3,5-Trichlorobenzene	180	4.180	4.180	(0.939)	1008361	5.00000	4.8194

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.335	4.335	(0.974)	914370	5.00000	4.8145
49	Benzoic Acid	122	4.245	4.245	(0.953)	1618524	10.0000	9.3087
50	1,2,4-Trichlorobenzene	180	4.405	4.405	(0.989)	993790	5.00000	4.7988
51	Naphthalene	128	4.469	4.469	(1.004)	3594953	5.00000	4.7756
52	4-Chloroaniline	127	4.485	4.485	(1.007)	1592976	5.00000	4.9047
56	Hexachlorobutadiene	225	4.539	4.539	(1.019)	520585	5.00000	4.8218
210	Caprolactam	113	4.747	4.747	(1.066)	420783	5.00000	4.8863
57	1,2,3-Trichlorobenzene	180	4.565	4.565	(1.025)	936787	5.00000	4.7880
59	4-Chloro-3-Methylphenol	107	4.811	4.811	(1.080)	1050761	5.00000	4.9130
62	2-Methylnaphthalene	142	4.961	4.961	(1.114)	1965335	5.00000	4.7957
63	1-Methylnaphthalene	142	5.031	5.031	(1.130)	2273218	5.00000	4.8240
64	Hexachlorocyclopentadiene	237	5.063	5.063	(0.885)	564834	5.00000	5.3324
66	2,4,6-Trichlorophenol	196	5.148	5.148	(0.900)	659186	5.00000	5.0535
67	2,4,5-Trichlorophenol	196	5.181	5.181	(0.906)	668498	5.00000	4.7713
211	1,1'-Biphenyl	154	5.287	5.287	(0.924)	2903675	5.00000	4.8618
68	1,2,3,5-Tetrachlorobenzene	216	5.068	5.068	(0.886)	954561	5.00000	4.7847
70	2-Chloronaphthalene	162	5.314	5.314	(0.929)	2135994	5.00000	4.8147
73	2-Nitroaniline	65	5.373	5.373	(0.939)	679059	5.00000	5.2154
74	1,2,3,4-Tetrachlorobenzene	216	5.287	5.287	(0.924)	870443	5.00000	4.7188
76	Dimethylphthalate	163	5.485	5.485	(0.959)	2432684	5.00000	4.7695
78	2,6-Dinitrotoluene	165	5.539	5.539	(0.968)	574239	5.00000	5.0460
79	Acenaphthylene	152	5.619	5.619	(0.982)	3530045	5.00000	4.8428
80	1,2-Dinitrobenzene	168	5.587	5.587	(0.977)	291867	5.00000	5.1489
81	3-Nitroaniline	138	5.673	5.673	(0.992)	668237	5.00000	5.2500
82	Acenaphthene	153	5.742	5.742	(1.004)	2252272	5.00000	4.8042
83	2,4-Dinitrophenol	184	5.742	5.742	(1.004)	849070	10.0000	9.8760
85	4-Nitrophenol	109	5.758	5.758	(1.007)	346702	5.00000	5.6117
86	Dibenzofuran	168	5.870	5.870	(1.026)	3000591	5.00000	4.7644
87	2,4-Dinitrotoluene	165	5.833	5.833	(1.020)	779872	5.00000	5.0124
91	2,3,5,6-Tetrachlorophenol	232	5.913	5.913	(1.034)	562068	5.00000	4.7722
93	Diethylphthalate	149	5.988	5.988	(1.047)	2524483	5.00000	4.8290
94	Fluorene	166	6.117	6.117	(1.069)	2568616	5.00000	4.7996
95	4-Chlorophenyl-phenylether	204	6.100	6.100	(1.066)	1145769	5.00000	4.8065
96	4-Nitroaniline	138	6.117	6.117	(1.069)	735499	5.00000	5.5099
98	4,6-Dinitro-2-methylphenol	198	6.133	6.133	(0.901)	463616	5.00000	5.0623
99	N-Nitrosodiphenylamine	169	6.181	6.181	(0.908)	1843641	5.00000	4.9157
100	1,2-Diphenylhydrazine	77	6.213	6.213	(0.913)	2586098	5.00000	5.0497
106	4-Bromophenyl-phenylether	248	6.459	6.459	(0.949)	652983	5.00000	4.8508
107	Hexachlorobenzene	284	6.518	6.518	(0.958)	625579	5.00000	4.7265
212	Atrazine	200	6.544	6.544	(0.961)	459733	5.00000	4.9221
111	Pentachlorophenol	266	6.651	6.651	(0.977)	782333	10.0000	8.1652
115	Phenanthrene	178	6.823	6.823	(1.002)	3650495	5.00000	4.8038
116	Anthracene	178	6.860	6.860	(1.008)	3691311	5.00000	4.8225
119	Carbazole	167	6.962	6.962	(1.023)	3549089	5.00000	4.9683
120	Di-n-Butylphthalate	149	7.170	7.170	(1.053)	4326728	5.00000	4.9906
123	Fluoranthene	202	7.689	7.689	(1.130)	3755739	5.00000	4.8230
124	Benzidine	184	7.764	7.764	(0.885)	2393927	5.00000	5.2696
125	Pyrene	202	7.866	7.866	(0.897)	4021208	5.00000	4.8820
131	Butylbenzylphthalate	149	8.277	8.277	(0.944)	1900749	5.00000	4.9354
133	3,3'-Dimethoxybenzidine	244	8.668	8.668	(0.988)	877196	5.00000	5.2571
135	3,3'-Dichlorobenzidine	252	8.711	8.711	(0.993)	1456868	5.00000	5.0602
136	Benzo(a)Anthracene	228	8.759	8.759	(0.999)	3951102	5.00000	4.9965
137	Chrysene	228	8.791	8.791	(1.002)	3552740	5.00000	4.7611
138	4,4'-Methylene bis(o-chloroan	231	8.705	8.705	(0.993)	757658	5.00000	5.0214

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139	bis(2-ethylhexyl)Phthalate	149	8.684	8.684	(0.990)	2719487	5.00000	4.9548
140	Di-n-octylphthalate	149	9.245	9.245	(0.903)	4689394	5.00000	5.0721
141	Benzo(b)fluoranthene	252	9.780	9.780	(0.956)	3679561	5.00000	4.8572
142	Benzo(k)fluoranthene	252	9.807	9.807	(0.958)	4053636	5.00000	5.0289
146	Benzo(a)pyrene	252	10.176	10.176	(0.994)	3568386	5.00000	4.9068
149	Indeno(1,2,3-cd)pyrene	276	11.861	11.861	(1.159)	3998906	5.00000	4.9205
150	Dibenz(a,h)anthracene	278	11.877	11.877	(1.160)	3426422	5.00000	5.0084
151	Benzo(g,h,i)perylene	276	12.353	12.353	(1.207)	3298331	5.00000	4.8638
198	1,4-Dioxane	88	1.763	1.763	(0.495)	434179	5.00000	5.1891
$ 154	Nitrobenzene-d5	82	3.940	3.940	(0.885)	1235708	5.00000	5.0236
$ 155	2-Fluorobiphenyl	172	5.207	5.207	(0.910)	2449947	5.00000	4.8495
$ 156	Terphenyl-d14	244	7.940	7.940	(0.905)	2445457	5.00000	4.8724
$ 157	Phenol-d5	99	3.260	3.260	(0.916)	1428362	5.00000	4.9060
$ 158	2-Fluorophenol	112	2.688	2.688	(0.755)	1082729	5.00000	4.9133
$ 159	2,4,6-Tribromophenol	330	6.288	6.288	(1.099)	285112	5.00000	4.8244
$ 186	2-Chlorophenol-d4	132	3.405	3.405	(0.956)	1127440	5.00000	4.8987
$ 187	1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.030)	748647	5.00000	4.8211
M 195	Cresols, total	100				2255869	5.00000	9.7266
101	Diphenylamine	169	6.181	6.181	(0.908)	1843641	5.00000	4.9157

TestAmerica North Canton

RECOVERY REPORT

OKmw 3/9/10

Client Name: Client SDG: SDGa00278
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: qcmrlck
Level: LOW Operator: 001710
Data Type: MS DATA SampleType: mrl
SpikeList File: qcmrl.spk Quant Type: ISTD
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270c-625.m
Misc Info:

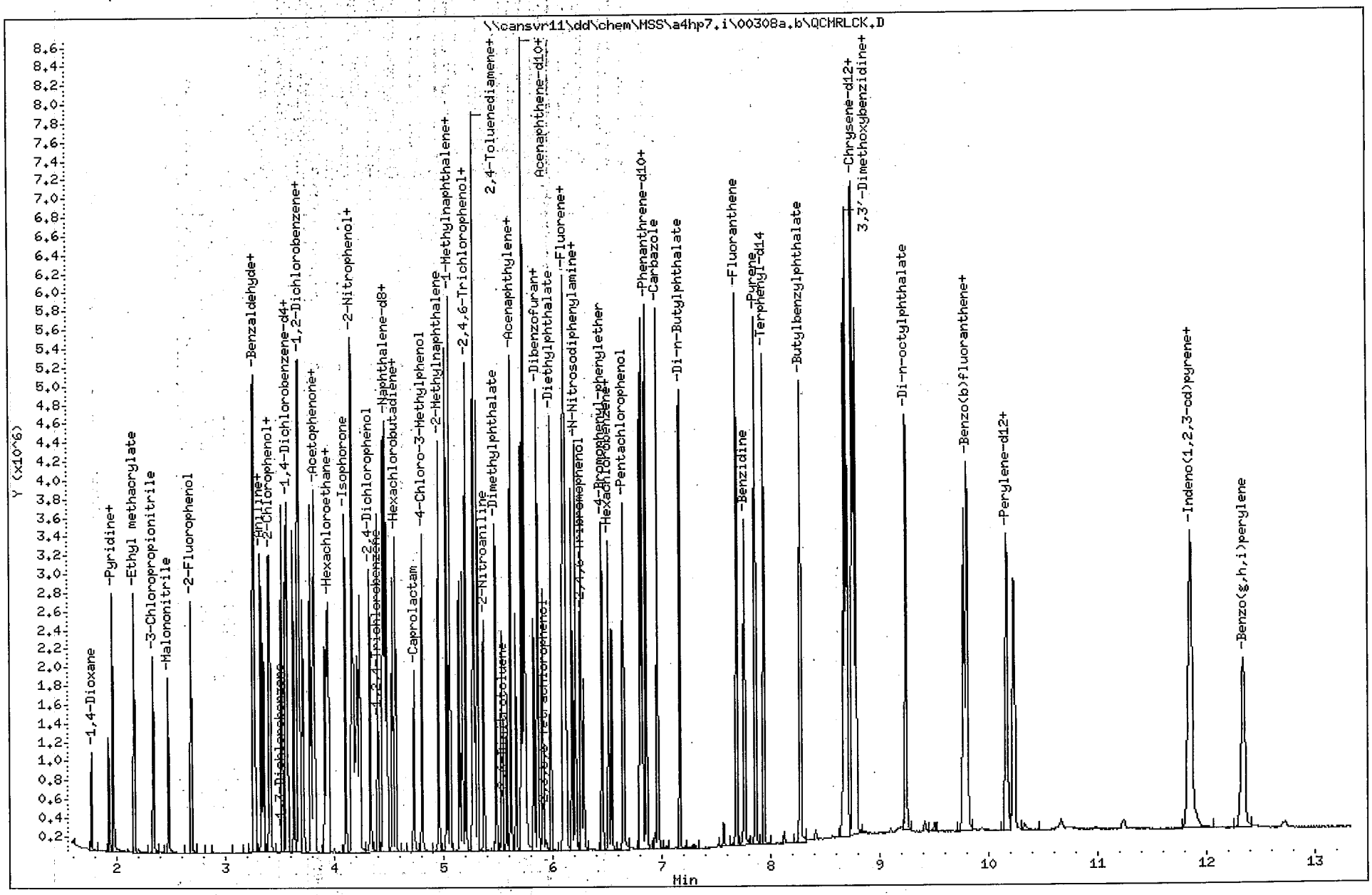
SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82	Acenaphthene	10.000	9.9562	99.56	70-130
79	Acenaphthylene	10.000	10.070	100.71	70-130
116	Anthracene	10.000	9.9178	99.18	70-130
136	Benzo(a)Anthracene	10.000	10.016	100.16	70-130
141	Benzo(b)fluoranthe	10.000	9.8665	98.67	70-130
151	Benzo(g,h,i)peryle	10.000	10.019	100.19	70-130
146	Benzo(a)pyrene	10.000	9.9862	99.86	70-130
29	Benzyl Alcohol	10.000	9.9599	99.60	70-130
44	bis(2-Chloroethoxy	10.000	10.147	101.47	70-130
23	bis(2-Chloroethyl)	10.000	9.4481	94.48	70-130
31	bis(2-Chloroisopro	10.000	10.454	104.54	70-130
139	bis(2-ethylhexyl)P	10.000	10.268	102.68	70-130
106	4-Bromophenyl-phen	10.000	9.9322	99.32	70-130
131	Butylbenzylphthala	10.000	10.348	103.48	70-130
52	4-Chloroaniline	10.000	9.6781	96.78	70-130
70	2-Chloronaphthalen	10.000	10.017	100.17	70-130
95	4-Chlorophenyl-phe	10.000	9.8436	98.44	70-130
137	Chrysene	10.000	10.064	100.64	70-130
150	Dibenz(a,h)anthrac	10.000	10.198	101.98	70-130
86	Dibenzofuran	10.000	9.9236	99.24	70-130
120	Di-n-Butylphthalat	10.000	10.372	103.73	70-130
28	1,2-Dichlorobenzen	10.000	9.9166	99.17	70-130
26	1,3-Dichlorobenzen	10.000	10.044	100.44	70-130
27	1,4-Dichlorobenzen	10.000	10.033	100.33	70-130
135	3,3'-Dichlorobenzi	10.000	10.198	101.98	70-130
93	Diethylphthalate	10.000	9.9717	99.72	70-130
76	Dimethylphthalate	10.000	9.9918	99.92	70-130
87	2,4-Dinitrotoluene	10.000	10.271	102.71	70-130
78	2,6-Dinitrotoluene	10.000	10.402	104.02	70-130
140	Di-n-octylphthalat	10.000	10.430	104.30	70-130
123	Fluoranthene	10.000	9.9849	99.85	70-130
94	Fluorene	10.000	9.9415	99.42	70-130
107	Hexachlorobenzene	10.000	9.8314	98.31	70-130
56	Hexachlorobutadien	10.000	9.9888	99.89	70-130
64	Hexachlorocyclopen	10.000	11.348	113.48	70-130
34	Hexachloroethane	10.000	10.366	103.66	70-130
149	Indeno(1,2,3-cd)py	10.000	10.010	100.10	70-130
41	Isophorone	10.000	10.058	100.58	70-130
63	1-Methylnaphthalen	10.000	9.7934	97.93	70-130
62	2-Methylnaphthalen	10.000	9.8446	98.45	70-130

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51	Naphthalene	10.000	9.7010	97.01	70-130
73	2-Nitroaniline	10.000	10.755	107.55	70-130
81	3-Nitroaniline	10.000	10.734	107.34	70-130
96	4-Nitroaniline	10.000	11.393	113.93	70-130
35	Nitrobenzene	10.000	10.223	102.23	70-130
32	N-Nitroso-di-n-pro	10.000	10.140	101.40	70-130
99	N-Nitrosodiphenyla	10.000	10.103	101.03	70-130
115	Phenanthrene	10.000	9.8649	98.65	70-130
125	Pyrene	10.000	10.113	101.13	70-130
50	1,2,4-Trichloroben	10.000	9.8978	98.98	70-130
49	Benzoic Acid	20.000	20.033	100.16	70-130
59	4-Chloro-3-Methylp	10.000	9.9637	99.64	70-130
24	2-Chlorophenol	10.000	10.074	100.74	70-130
48	2,4-Dichlorophenol	10.000	9.8830	98.83	70-130
43	2,4-Dimethylphenol	10.000	10.095	100.95	70-130
98	4,6-Dinitro-2-meth	10.000	10.489	104.89	70-130
83	2,4-Dinitrophenol	20.000	20.101	100.51	70-130
30	2-Methylphenol	10.000	9.9059	99.06	70-130
192	4-Methylphenol	10.000	9.9367	99.37	70-130
42	2-Nitrophenol	10.000	10.364	103.64	70-130
85	4-Nitrophenol	10.000	11.323	113.23	70-130
111	Pentachlorophenol	20.000	15.622	78.11	70-130
22	Phenol	10.000	10.237	102.37	70-130
67	2,4,5-Trichlorophe	10.000	10.413	104.13	70-130
66	2,4,6-Trichlorophe	10.000	10.225	102.25	70-130
119	Carbazole	10.000	10.317	103.17	70-130
142	Benzo(k)fluoranthe	10.000	10.285	102.85	70-130
37	Acetophenone	10.000	10.007	100.07	70-130
209	Benzaldehyde	10.000	10.709	107.09	70-130
210	Caprolactam	10.000	9.9095	99.10	70-130
211	1,1'-Biphenyl	10.000	10.151	101.51	70-130
212	Atrazine	10.000	10.363	103.63	70-130
21	Aniline	10.000	10.733	107.33	70-130
10	N-Nitrosodimethyla	10.000	10.413	104.13	70-130
80	1,2-Dinitrobenzene	10.000	10.310	103.10	70-130
91	2,3,5,6-Tetrachlor	10.000	9.7338	97.34	70-130

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\QCMRLCK.D
Date : 08-MAR-2010 10:36
Client ID:
Sample Info: qcmrlck,00308a.b,8270c-625,1-827042d.sub
Volume Injected (uL): 0.5
Column phase: db5.625

Instrument: a4hp7.i

Operator: 001710
Column diameter: 0.32



North Canton

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\QCMRLCK.D
Lab Smp Id: qcmrlck
Inj Date : 08-MAR-2010 10:36
Operator : 001710 Inst ID: a4hp7.i
Smp Info : qcmrlck,00308a.b,8270c-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270c-625.m
Meth Date : 08-Mar-2010 10:38 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 3 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.560	3.560	(1.000)	371566	2.00000	
* 2	Naphthalene-d8	136	4.453	4.453	(1.000)	1545688	2.00000	
* 3	Acenaphthene-d10	164	5.721	5.721	(1.000)	817291	2.00000	
* 4	Phenanthrene-d10	188	6.801	6.807	(1.000)	1304263	2.00000	
* 5	Chrysene-d12	240	8.764	8.769	(1.000)	1486414	2.00000	
* 6	Perylene-d12	264	10.235	10.235	(1.000)	1365243	2.00000	
9	Pyridine	79	1.966	1.966	(0.552)	506939	2.39049	9.5620
10	N-Nitrosodimethylamine	74	1.929	1.929	(0.542)	321162	2.60322	10.413
11	Ethyl methacrylate	69	2.164	2.164	(0.608)	499063	2.68160	10.726
12	3-Chloropropionitrile	54	2.341	2.340	(0.657)	371522	2.63710	10.548
13	Malononitrile	66	2.480	2.485	(0.697)	721465	2.61794	10.472
209	Benzaldehyde	77	3.271	3.271	(0.919)	399042	2.67722	10.709
21	Aniline	93	3.330	3.335	(0.935)	963784	2.68335	10.733
22	Phenol	94	3.266	3.271	(0.917)	753241	2.55921	10.237
23	bis(2-Chloroethyl)ether	93	3.351	3.357	(0.941)	581704	2.36202	9.4481
24	2-Chlorophenol	128	3.416	3.415	(0.959)	601384	2.51849	10.074
26	1,3-Dichlorobenzene	146	3.523	3.522	(0.989)	610634	2.51108	10.044
27	1,4-Dichlorobenzene	146	3.571	3.571	(1.003)	602995	2.50832	10.033
28	1,2-Dichlorobenzene	146	3.678	3.678	(1.033)	575777	2.47915	9.9166
29	Benzyl Alcohol	108	3.630	3.629	(1.020)	390436	2.48998	9.9599

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
30	2-Methylphenol	108	3.683	3.688	(1.035)	536169	2.47649	9.9059
31	bis(2-Chloroisopropyl)ether	45	3.715	3.715	(1.044)	909413	2.61362	10.454
37	Acetophenone	105	3.822	3.827	(1.074)	787729	2.50186	10.007
32	N-Nitroso-di-n-propylamine	70	3.806	3.811	(1.069)	426471	2.53490	10.140
192	4-Methylphenol	108	3.785	3.790	(1.063)	563711	2.48417	9.9367
34	Hexachloroethane	117	3.913	3.918	(1.099)	232850	2.59140	10.366
35	Nitrobenzene	77	3.951	3.950	(0.887)	589552	2.55567	10.223
41	Isophorone	82	4.106	4.111	(0.922)	1160842	2.51450	10.058
42	2-Nitrophenol	139	4.170	4.170	(0.936)	319928	2.59090	10.364
43	2,4-Dimethylphenol	107	4.164	4.164	(0.935)	582028	2.52383	10.095
44	bis(2-Chloroethoxy)methane	93	4.239	4.239	(0.952)	681576	2.53684	10.147
46	2,4-Toluenediamene	121	5.272	5.271	(1.184)	399004	2.82893	11.316
47	1,3,5-Trichlorobenzene	180	4.175	4.180	(0.938)	492876	2.48118	9.9247
48	2,4-Dichlorophenol	162	4.330	4.335	(0.972)	445511	2.47075	9.8830
49	Benzoic Acid	122	4.218	4.245	(0.947)	760697	5.00818	20.033
50	1,2,4-Trichlorobenzene	180	4.400	4.405	(0.988)	486517	2.47444	9.8978
51	Naphthalene	128	4.469	4.469	(1.004)	1733332	2.42526	9.7010
52	4-Chloroaniline	127	4.485	4.485	(1.007)	746080	2.41954	9.6781
56	Hexachlorobutadiene	225	4.534	4.539	(1.018)	255974	2.49719	9.9888
210	Caprolactam	113	4.731	4.747	(1.062)	202549	2.47738	9.9095
57	1,2,3-Trichlorobenzene	180	4.566	4.565	(1.025)	456377	2.45683	9.8273
59	4-Chloro-3-Methylphenol	107	4.806	4.811	(1.079)	505793	2.49093	9.9637
62	2-Methylnaphthalene	142	4.956	4.961	(1.113)	957590	2.46115	9.8446
63	1-Methylnaphthalene	142	5.031	5.031	(1.130)	1095391	2.44836	9.7934
64	Hexachlorocyclopentadiene	237	5.063	5.063	(0.885)	267795	2.83711	11.348
66	2,4,6-Trichlorophenol	196	5.149	5.148	(0.900)	311208	2.55634	10.225
67	2,4,5-Trichlorophenol	196	5.175	5.181	(0.905)	340420	2.60336	10.413
211	1,1'-Biphenyl	154	5.288	5.287	(0.924)	1414511	2.53769	10.151
68	1,2,3,5-Tetrachlorobenzene	216	5.063	5.068	(0.885)	452125	2.42826	9.7130
70	2-Chloronaphthalene	162	5.314	5.314	(0.929)	1036929	2.50437	10.017
73	2-Nitroaniline	65	5.373	5.373	(0.939)	326744	2.68886	10.755
74	1,2,3,4-Tetrachlorobenzene	216	5.282	5.287	(0.923)	423729	2.46127	9.8451
76	Dimethylphthalate	163	5.480	5.485	(0.958)	1189091	2.49795	9.9918
78	2,6-Dinitrotoluene	165	5.539	5.539	(0.968)	276189	2.60044	10.402
79	Acenaphthylene	152	5.619	5.619	(0.982)	1712757	2.51764	10.070
80	1,2-Dinitrobenzene	168	5.582	5.587	(0.976)	136357	2.57745	10.310
81	3-Nitroaniline	138	5.667	5.673	(0.991)	318787	2.68359	10.734
82	Acenaphthene	153	5.742	5.742	(1.004)	1089054	2.48905	9.9562
83	2,4-Dinitrophenol	184	5.742	5.742	(1.004)	366362	5.02536	20.101(Q)
85	4-Nitrophenol	109	5.753	5.758	(1.006)	163225	2.83081	11.323
86	Dibenzofuran	168	5.865	5.870	(1.025)	1458226	2.48090	9.9236
87	2,4-Dinitrotoluene	165	5.833	5.833	(1.020)	372860	2.56773	10.271
91	2,3,5,6-Tetrachlorophenol	232	5.908	5.913	(1.033)	267488	2.43344	9.7338
93	Diethylphthalate	149	5.988	5.988	(1.047)	1216293	2.49292	9.9717
94	Fluorene	166	6.117	6.117	(1.069)	1241386	2.48539	9.9415
95	4-Chlorophenyl-phenylether	204	6.095	6.100	(1.065)	547487	2.46089	9.8436
96	4-Nitroaniline	138	6.111	6.117	(1.068)	354852	2.84836	11.393
98	4,6-Dinitro-2-methylphenol	198	6.127	6.133	(0.901)	205888	2.62216	10.489
99	N-Nitrosodiphenylamine	169	6.181	6.181	(0.909)	883225	2.52576	10.103
100	1,2-Diphenylhydrazine	77	6.213	6.213	(0.914)	1255337	2.62902	10.516
106	4-Bromophenyl-phenylether	248	6.454	6.459	(0.949)	311648	2.48306	9.9322
107	Hexachlorobenzene	284	6.513	6.518	(0.958)	303310	2.45784	9.8314
212	Atrazine	200	6.545	6.544	(0.962)	225611	2.59071	10.363
111	Pentachlorophenol	266	6.652	6.651	(0.978)	335436	3.90560	15.622

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
115	Phenanthrene	178	6.823	6.823	(1.003)	1747373	2.46624	9.8649
116	Anthracene	178	6.860	6.860	(1.009)	1769495	2.47944	9.9178
119	Carbazole	167	6.962	6.962	(1.024)	1717853	2.57924	10.317
120	Di-n-Butylphthalate	149	7.170	7.170	(1.054)	2096129	2.59315	10.372
123	Fluoranthene	202	7.689	7.689	(1.131)	1812383	2.49622	9.9849
124	Benzidine	184	7.759	7.764	(0.885)	1128058	2.66901	10.676
125	Pyrene	202	7.860	7.866	(0.897)	1937495	2.52836	10.113
131	Butylbenzylphthalate	149	8.278	8.277	(0.944)	926919	2.58698	10.348
133	3,3'-Dimethoxybenzidine	244	8.668	8.668	(0.989)	440857	2.83993	11.360
135	3,3'-Dichlorobenzidine	252	8.705	8.711	(0.993)	682878	2.54944	10.198
136	Benzo(a)Anthracene	228	8.754	8.759	(0.999)	1842179	2.50399	10.016
137	Chrysene	228	8.786	8.791	(1.002)	1746733	2.51611	10.064
138	4,4'-Methylene bis(6-chloroan	231	8.700	8.705	(0.993)	355321	2.53124	10.125
139	bis(2-ethylhexyl)Phthalate	149	8.684	8.684	(0.991)	1310834	2.56709	10.268
140	Di-n-octylphthalate	149	9.240	9.245	(0.903)	2233080	2.60747	10.430
141	Benzo(b)fluoranthene	252	9.775	9.780	(0.955)	1730897	2.46663	9.8665
142	Benzo(k)fluoranthene	252	9.802	9.807	(0.958)	1919822	2.57115	10.285
146	Benzo(a)pyrene	252	10.166	10.176	(0.993)	1681793	2.49655	9.9862
149	Indeno(1,2,3-cd)pyrene	276	11.845	11.861	(1.157)	1883906	2.50247	10.010
150	Dibenz(a,h)anthracene	278	11.861	11.877	(1.159)	1615655	2.54945	10.198
151	Benzo(g,h,i)perylene	276	12.337	12.353	(1.205)	1573404	2.50471	10.019
198	1,4-Dioxane	88	1.768	1.763	(0.497)	222793	2.78488	11.140
101	Diphenylamine	169	6.181	6.181	(0.909)	883225	2.52576	10.103

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

Only PAH Compounds Needed For closer.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: qcmrlcl
Level: LOW
Data Type: MS DATA
SpikeList File: qcmrl.spk
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270c-625.m
Misc Info:

Client SDG: SDGa00278
Fraction: SV
Operator: 001710
SampleType: mrl
Quant Type: ISTD

okmw 3/9/10

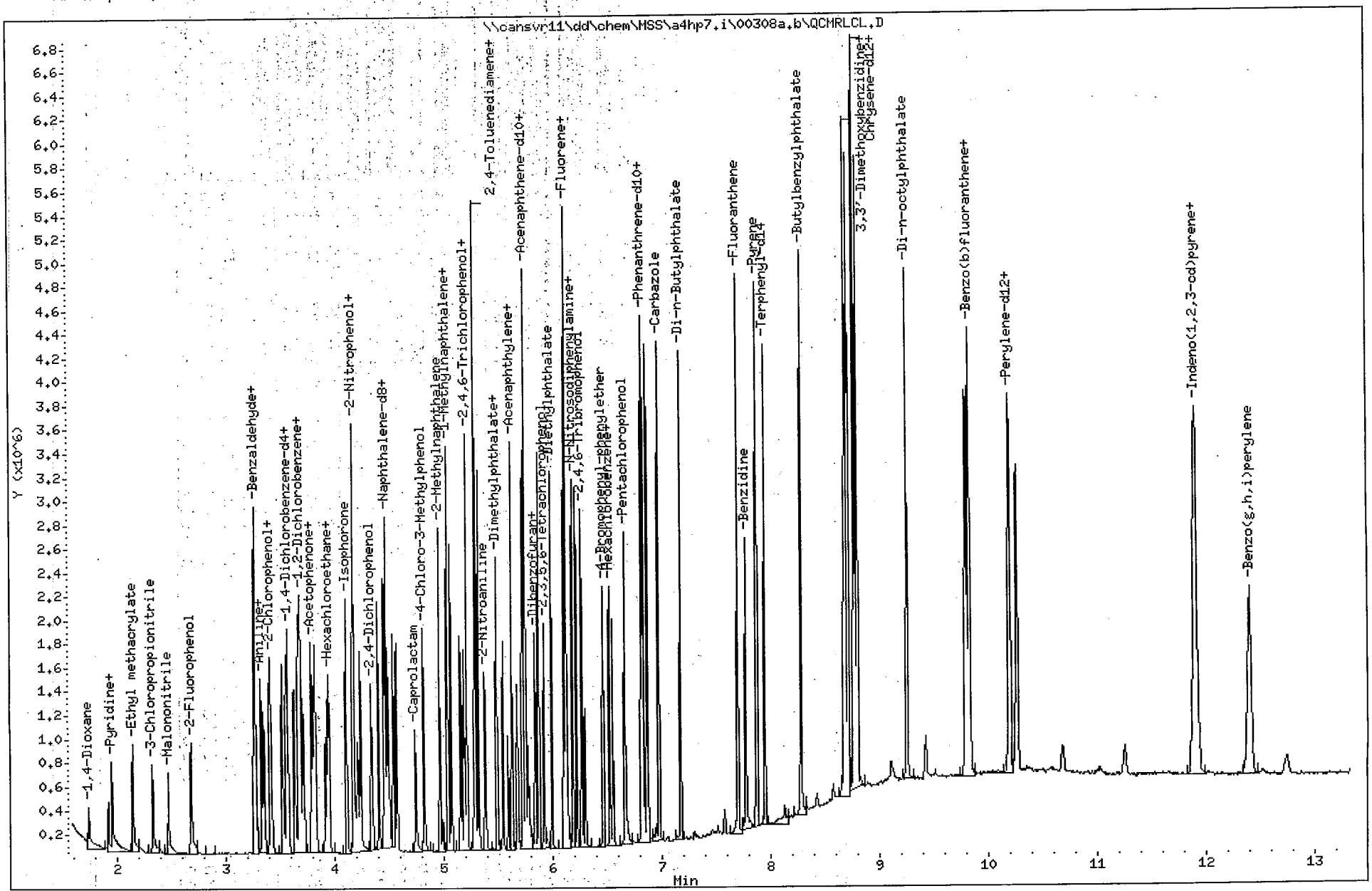
SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82	Acenaphthene	10.000	9.8920	98.92	70-130
79	Acenaphthylene	10.000	10.072	100.72	70-130
116	Anthracene	10.000	9.8379	98.38	70-130
136	Benzo(a)Anthracene	10.000	10.178	101.78	70-130
141	Benzo(b)fluoranthe	10.000	9.7491	97.49	70-130
151	Benzo(g,h,i)peryle	10.000	9.9733	99.73	70-130
146	Benzo(a)pyrene	10.000	9.9224	99.22	70-130
29	Benzyl Alcohol	10.000	10.026	100.26	70-130
44	bis(2-Chloroethoxy	10.000	9.9717	99.72	70-130
23	bis(2-Chloroethyl)	10.000	12.299	122.99	70-130
31	bis(2-Chloroisopro	10.000	9.5984	95.98	70-130
139	bis(2-ethylhexyl)P	10.000	9.9189	99.19	70-130
106	4-Bromophenyl-phen	10.000	10.156	101.56	70-130
131	Butylbenzylphthala	10.000	9.7342	97.34	70-130
52	4-Chloroaniline	10.000	10.005	100.05	70-130
70	2-Chloronaphthalen	10.000	9.8137	98.14	70-130
95	4-Chlorophenyl-phe	10.000	10.421	104.21	70-130
137	Chrysene	10.000	10.294	102.94	70-130
150	Dibenz(a,h)anthrac	10.000	10.388	103.88	70-130
86	Dibenzofuran	10.000	10.016	100.17	70-130
120	Di-n-Butylphthalat	10.000	10.339	103.39	70-130
28	1,2-Dichlorobenzen	10.000	9.9833	99.83	70-130
26	1,3-Dichlorobenzen	10.000	9.7676	97.68	70-130
27	1,4-Dichlorobenzen	10.000	9.8710	98.71	70-130
135	3,3'-Dichlorobenzi	10.000	10.183	101.83	70-130
93	Diethylphthalate	10.000	10.148	101.49	70-130
76	Dimethylphthalate	10.000	10.148	101.48	70-130
87	2,4-Dinitrotoluene	10.000	10.477	104.77	70-130
78	2,6-Dinitrotoluene	10.000	10.305	103.05	70-130
140	Di-n-octylphthalat	10.000	9.9639	99.64	70-130
123	Fluoranthene	10.000	10.870	108.71	70-130
94	Fluorene	10.000	10.113	101.13	70-130
107	Hexachlorobenzene	10.000	9.8348	98.35	70-130
56	Hexachlorobutadien	10.000	10.178	101.79	70-130
64	Hexachlorocyclopen	10.000	3.6749	36.75*	70-130
34	Hexachloroethane	10.000	8.3493	83.49	70-130
149	Indeno(1,2,3-cd)py	10.000	10.211	102.11	70-130
41	Isophorone	10.000	9.9360	99.36	70-130
63	1-Methylnaphthalen	10.000	10.521	105.21	70-130
62	2-Methylnaphthalen	10.000	10.540	105.40	70-130

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51	Naphthalene	10.000	9.8814	98.81	70-130
73	2-Nitroaniline	10.000	10.102	101.02	70-130
81	3-Nitroaniline	10.000	10.592	105.92	70-130
96	4-Nitroaniline	10.000	11.212	112.13	70-130
35	Nitrobenzene	10.000	9.6635	96.64	70-130
32	N-Nitroso-di-n-pro	10.000	9.7716	97.72	70-130
99	N-Nitrosodiphenyla	10.000	9.7176	97.18	70-130
115	Phenanthrene	10.000	9.8311	98.31	70-130
125	Pyrene	10.000	9.3574	93.57	70-130
50	1,2,4-Trichloroben	10.000	10.413	104.13	70-130
49	Benzoic Acid	20.000	13.056	65.28*	70-130
59	4-Chloro-3-Methylp	10.000	10.645	106.45	70-130
24	2-Chlorophenol	10.000	10.067	100.67	70-130
48	2,4-Dichlorophenol	10.000	10.497	104.97	70-130
43	2,4-Dimethylphenol	10.000	10.114	101.14	70-130
98	4,6-Dinitro-2-meth	10.000	7.2363	72.36	70-130
83	2,4-Dinitrophenol	20.000	12.561	62.81*	70-130
30	2-Methylphenol	10.000	9.9116	99.12	70-130
192	4-Methylphenol	10.000	10.318	103.18	70-130
42	2-Nitrophenol	10.000	10.380	103.80	70-130
85	4-Nitrophenol	10.000	9.7820	97.82	70-130
111	Pentachlorophenol	20.000	18.723	93.61	70-130
22	Phenol	10.000	9.9131	99.13	70-130
67	2,4,5-Trichlorophe	10.000	10.551	105.51	70-130
66	2,4,6-Trichlorophe	10.000	10.439	104.39	70-130
119	Carbazole	10.000	10.236	102.36	70-130
142	Benzo(k)fluoranthe	10.000	10.001	100.01	70-130
37	Acetophenone	10.000	10.136	101.36	70-130
209	Benzaldehyde	10.000	10.478	104.79	70-130
210	Caprolactam	10.000	10.424	104.24	70-130
211	1,1'-Biphenyl	10.000	9.6927	96.93	70-130
212	Atrazine	10.000	10.296	102.96	70-130
21	Aniline	10.000	8.5536	85.54	70-130
10	N-Nitrosodimethyla	10.000	8.3264	83.26	70-130
80	1,2-Dinitrobenzene	10.000	10.200	102.00	70-130
91	2,3,5,6-Tetrachlor	10.000	10.383	103.83	70-130

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\QCMRLCL.D
Date : 08-MAR-2010 17:00
Client ID:
Sample Info: qcmrlcl,00308a,b,8270c-625,1-827042d.sub
Volume Injected (uL): 0.5
Column phase: db5.625

Instrument: a4hp7.i

Operator: 001710
Column diameter: 0.32



North Canton

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\QCMRLCL.D
Lab Smp Id: qcmrlcl
Inj Date : 08-MAR-2010 17:00
Operator : 001710 Inst ID: a4hp7.i
Smp Info : qcmrlcl,00308a.b,8270c-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270c-625.m
Meth Date : 09-Mar-2010 11:04 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 3 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.560	3.560	(1.000)	215127	2.00000	
* 2 Naphthalene-d8	136	4.453	4.453	(1.000)	931198	2.00000	
* 3 Acenaphthene-d10	164	5.726	5.721	(1.000)	554865	2.00000	
* 4 Phenanthrene-d10	188	6.812	6.807	(1.000)	973225	2.00000	
* 5 Chrysene-d12	240	8.775	8.769	(1.000)	1310154	2.00000	
* 6 Perylene-d12	264	10.262	10.235	(1.000)	1273795	2.00000	
9 Pyridine	79	1.950	1.966	(0.548)	239536	1.95094	7.8037
10 N-Nitrosodimethylamine	74	1.918	1.929	(0.539)	148685	2.08159	8.3264
11 Ethyl methacrylate	69	2.148	2.164	(0.603)	255757	2.37360	9.4944
12 3-Chloropropionitrile	54	2.330	2.340	(0.654)	183975	2.25549	9.0220
13 Malononitrile	66	2.474	2.485	(0.695)	373006	2.33777	9.3511
209 Benzaldehyde	77	3.271	3.271	(0.919)	226065	2.61963	10.478
21 Aniline	93	3.330	3.335	(0.935)	444685	2.13841	8.5536
22 Phenol	94	3.271	3.271	(0.919)	422315	2.47828	9.9131
23 bis(2-Chloroethyl)ether	93	3.351	3.357	(0.941)	438430	3.07484	12.299
24 2-Chlorophenol	128	3.416	3.415	(0.959)	347957	2.51683	10.067
26 1,3-Dichlorobenzene	146	3.523	3.522	(0.989)	343800	2.44189	9.7676
27 1,4-Dichlorobenzene	146	3.571	3.571	(1.003)	343471	2.46775	9.8710
28 1,2-Dichlorobenzene	146	3.678	3.678	(1.033)	335603	2.49583	9.9833
29 Benzyl Alcohol	108	3.635	3.629	(1.021)	227553	2.50651	10.026
30 2-Methylphenol	108	3.688	3.688	(1.036)	310604	2.47789	9.9116

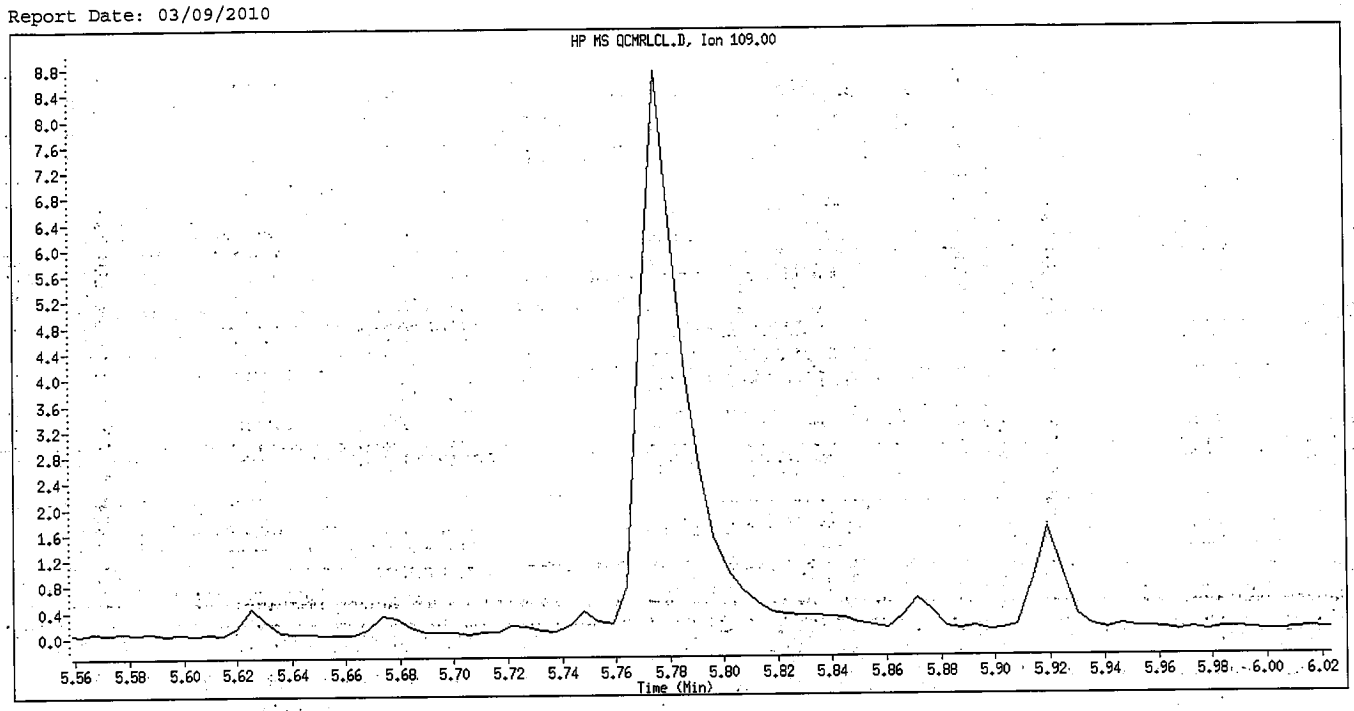
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
31 bis(2-Chloroisopropyl)ether	45	3.715	3.715	(1.044)	483412	2.39961	9.5984
37 Acetophenone	105	3.828	3.827	(1.075)	461918	2.53392	10.136
32 N-Nitroso-di-n-propylamine	70	3.811	3.811	(1.071)	237955	2.44291	9.7716
192 4-Methylphenol	108	3.790	3.790	(1.065)	338886	2.57941	10.318
34 Hexachloroethane	117	3.918	3.918	(1.101)	108590	2.08732	8.3493
35 Nitrobenzene	77	3.951	3.950	(0.887)	335748	2.41588	9.6635
41 Isophorone	82	4.111	4.111	(0.923)	690864	2.48400	9.9360
42 2-Nitrophenol	139	4.175	4.170	(0.938)	193046	2.59501	10.380
43 2,4-Dimethylphenol	107	4.170	4.164	(0.936)	351275	2.52838	10.114
44 bis(2-Chloroethoxy)methane	93	4.239	4.239	(0.952)	403506	2.49292	9.9717
46 2,4-Toluenediamene	121	5.277	5.271	(1.185)	242316	2.85172	11.407
47 1,3,5-Trichlorobenzene	180	4.181	4.180	(0.939)	306772	2.56340	10.254
48 2,4-Dichlorophenol	162	4.341	4.335	(0.975)	285063	2.62416	10.497
49 Benzoic Acid	122	4.218	4.245	(0.947)	276173	3.26395	13.056(R)
50 1,2,4-Trichlorobenzene	180	4.405	4.405	(0.989)	308364	2.60329	10.413
51 Naphthalene	128	4.469	4.469	(1.004)	1063653	2.47034	9.8814
52 4-Chloroaniline	127	4.491	4.485	(1.008)	464657	2.50126	10.005
56 Hexachlorobutadiene	225	4.539	4.539	(1.019)	157141	2.54463	10.178
210 Caprolactam	113	4.742	4.747	(1.065)	128357	2.60593	10.424
57 1,2,3-Trichlorobenzene	180	4.571	4.565	(1.026)	293712	2.62454	10.498
59 4-Chloro-3-Methylphenol	107	4.817	4.811	(1.082)	325557	2.66131	10.645
62 2-Methylnaphthalene	142	4.961	4.961	(1.114)	617624	2.63489	10.540
63 1-Methylnaphthalene	142	5.036	5.031	(1.131)	708949	2.63027	10.521
64 Hexachlorocyclopentadiene	237	5.068	5.063	(0.885)	52828	0.91872	3.6749(R)
66 2,4,6-Trichlorophenol	196	5.159	5.148	(0.901)	215706	2.60987	10.439
67 2,4,5-Trichlorophenol	196	5.186	5.181	(0.906)	234170	2.63779	10.551
211 1,1'-Biphenyl	154	5.293	5.287	(0.924)	916985	2.42317	9.6927
68 1,2,3,5-Tetrachlorobenzene	216	5.068	5.068	(0.885)	311123	2.46127	9.8451
70 2-Chloronaphthalene	162	5.320	5.314	(0.929)	689659	2.45343	9.8137
73 2-Nitroaniline	65	5.379	5.373	(0.939)	208355	2.52554	10.102
74 1,2,3,4-Tetrachlorobenzene	216	5.288	5.287	(0.923)	288715	2.47019	9.8807
76 Dimethylphthalate	163	5.486	5.485	(0.958)	819875	2.53692	10.148
78 2,6-Dinitrotoluene	165	5.544	5.539	(0.968)	185764	2.57627	10.305
79 Acenaphthylene	152	5.625	5.619	(0.982)	1162988	2.51804	10.072
80 1,2-Dinitrobenzene	168	5.593	5.587	(0.977)	91592	2.55011	10.200
81 3-Nitroaniline	138	5.678	5.673	(0.992)	213566	2.64812	10.592
82 Acenaphthene	153	5.748	5.742	(1.004)	734597	2.47299	9.8920
83 2,4-Dinitrophenol	184	5.753	5.742	(1.005)	132852	3.14025	12.561(QR)
85 4-Nitrophenol	109	5.774	5.758	(1.008)	95731	2.44549	9.7820(M)
86 Dibenzofuran	168	5.871	5.870	(1.025)	999278	2.50414	10.016
87 2,4-Dinitrotoluene	165	5.839	5.833	(1.020)	258225	2.61934	10.477
91 2,3,5,6-Tetrachlorophenol	232	5.919	5.913	(1.034)	193710	2.59572	10.383
93 Diethylphthalate	149	5.994	5.988	(1.047)	840396	2.53714	10.148
94 Fluorene	166	6.122	6.117	(1.069)	857337	2.52830	10.113
95 4-Chlorophenyl-phenylether	204	6.101	6.100	(1.065)	393491	2.60521	10.421
96 4-Nitroaniline	138	6.122	6.117	(1.069)	237087	2.80314	11.212
98 4,6-Dinitro-2-methylphenol	198	6.138	6.133	(0.901)	97789	1.80908	7.2363
99 N-Nitrosodiphenylamine	169	6.186	6.181	(0.908)	633906	2.42939	9.7176
100 1,2-Diphenylhydrazine	77	6.218	6.213	(0.913)	835616	2.34526	9.3810
106 4-Bromophenyl-phenylether	248	6.464	6.459	(0.949)	237796	2.53910	10.156
107 Hexachlorobenzene	284	6.523	6.518	(0.958)	226405	2.45870	9.8348
212 Atrazine	200	6.550	6.544	(0.962)	167266	2.57406	10.296
111 Pentachlorophenol	266	6.662	6.651	(0.978)	303322	4.68066	18.723
115 Phenanthrene	178	6.828	6.823	(1.002)	1299398	2.45778	9.8311

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
116 Anthracene	178	6.866	6.860	(1.008)	1309743	2.45948	9.8379
119 Carbazole	167	6.973	6.962	(1.024)	1271721	2.55888	10.236
120 Di-n-Butylphthalate	149	7.176	7.170	(1.053)	1559004	2.58469	10.339
123 Fluoranthene	202	7.700	7.689	(1.130)	1472339	2.71765	10.870
124 Benzidine	184	7.769	7.764	(0.885)	866093	2.32488	9.2995
125 Pyrene	202	7.871	7.866	(0.897)	1580073	2.33934	9.3574
131 Butylbenzylphthalate	149	8.283	8.277	(0.944)	768549	2.43355	9.7342
133 3,3'-Dimethoxybenzidine	244	8.673	8.668	(0.988)	421372	3.07959	12.318
135 3,3'-Dichlorobenzidine	252	8.716	8.711	(0.993)	601011	2.54567	10.183
136 Benzo(a)Anthracene	228	8.764	8.759	(0.999)	1649991	2.54449	10.178
137 Chrysene	228	8.796	8.791	(1.002)	1574694	2.57345	10.294
138 4,4'-Methylene bis(o-chloroan	231	8.711	8.705	(0.993)	315722	2.55173	10.207
139 bis(2-ethylhexyl)Phthalate	149	8.689	8.684	(0.990)	1116072	2.47972	9.9189
140 Di-n-octylphthalate	149	9.251	9.245	(0.901)	1990417	2.49097	9.9639
141 Benzo(b)fluoranthene	252	9.797	9.780	(0.955)	1595744	2.43728	9.7491
142 Benzo(k)fluoranthene	252	9.823	9.807	(0.957)	1741772	2.50017	10.001
146 Benzo(a)pyrene	252	10.192	10.176	(0.993)	1559122	2.48061	9.9224
149 Indeno(1,2,3-cd)pyrene	276	11.893	11.861	(1.159)	1793029	2.55275	10.211
150 Dibenz(a,h)anthracene	278	11.909	11.877	(1.161)	1535491	2.59690	10.388
151 Benzo(g,h,i)perylene	276	12.396	12.353	(1.208)	1461336	2.49332	9.9733
198 1,4-Dioxane	88	1.742	1.763	(0.489)	90540	1.95473	7.8189
101 Diphenylamine	169	6.186	6.181	(0.908)	633906	2.42939	9.7176

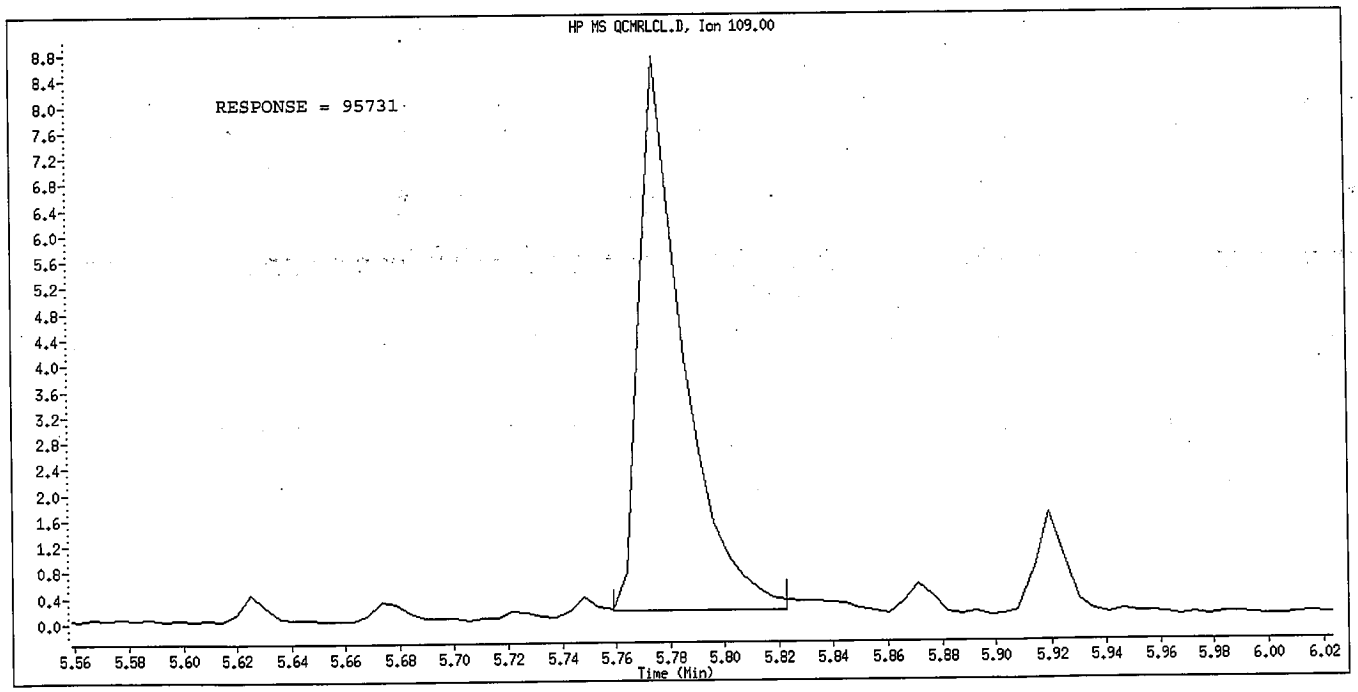
QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File Name: QCMRLCL.D
Inj. Date and Time: 08-MAR-2010 17:00
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Calibration History

Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270C-625.m
Start Cal Date: 05-MAR-2010 10:22
End Cal Date : 05-MAR-2010 12:55
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
05-MAR-2010 11:38	pah	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SLL0305.D
Cal Level: 2 , Cal Amount: 0.25000		
05-MAR-2010 11:19	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SL0305.D
Cal Level: 3 , Cal Amount: 0.50000		
05-MAR-2010 11:00	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SML0305.D
Cal Level: 4 , Cal Amount: 1.00000		
05-MAR-2010 10:41	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SM0305.D
Cal Level: 5 , Cal Amount: 2.50000		
05-MAR-2010 10:22	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMM0305.D
Cal Level: 6 , Cal Amount: 5.00000		
05-MAR-2010 12:55	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMH0305.D
Cal Level: 7 , Cal Amount: 7.50000		
05-MAR-2010 12:36	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SH0305.D
Cal Level: 8 , Cal Amount: 10.00000		

05-MAR-2010 12:17	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHH0305.D		

Cal Level: 9 , Cal Amount: 12.50000		
05-MAR-2010 11:57	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHHH0305.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

09-MAR-2010 09:30	1-827042d	
\\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\7SMH0309.D		

OKMU 3/10/10

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i
Lab File ID: 7SMH0309.D
Analysis Type:
Lab Sample ID: 16
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270C-625.m

Injection Date: 09-MAR-2010 09:30
Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Init. Cal. Times: 10:22 12:55
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
9 Pyridine	1.14147	1.13068	1.13068	0.010	0.94474	50.00000	Averaged
10 N-Nitrosodimethylamine	0.66406	0.61988	0.61988	0.010	6.65363	50.00000	Averaged
11 Ethyl methacrylate	1.00174	0.93743	0.93743	0.010	6.41951	50.00000	Averaged
12 3-Chloropropionitrile	0.75832	0.71473	0.71473	0.010	5.74864	50.00000	Averaged
13 Malononitrile	1.48337	1.44826	1.44826	0.010	2.36708	50.00000	Averaged
209 Benzaldehyde	0.80229	0.73678	0.73678	0.010	8.16426	50.00000	Averaged
21 Aniline	1.93328	1.88673	1.88673	0.010	2.40820	50.00000	Averaged
22 Phenol	1.58424	1.54558	1.54558	0.010	2.44043	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.32560	1.33265	1.33265	0.010	-0.53172	50.00000	Averaged
24 2-Chlorophenol	1.28531	1.26959	1.26959	0.010	1.22289	50.00000	Averaged
26 1,3-Dichlorobenzene	1.30893	1.27416	1.27416	0.010	2.65593	50.00000	Averaged
27 1,4-Dichlorobenzene	1.29397	1.25874	1.25874	0.010	2.72270	20.00000	Averaged
28 1,2-Dichlorobenzene	1.25010	1.22103	1.22103	0.010	2.32560	50.00000	Averaged
29 Benzyl Alcohol	0.84401	0.83035	0.83035	0.010	1.61828	50.00000	Averaged
30 2-Methylphenol	1.16536	1.13236	1.13236	0.010	2.83154	50.00000	Averaged
31 bis(2-Chloroisopropyl)ether	1.87289	1.83187	1.83187	0.010	2.19049	50.00000	Averaged
37 Acetophenone	1.69476	1.68158	1.68158	0.010	0.77752	50.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.90557	0.88241	0.88241	0.050	2.55812	50.00000	Averaged
192 4-Methylphenol	1.22143	1.21711	1.21711	0.010	0.35385	50.00000	Averaged
34 Hexachloroethane	0.48366	0.48461	0.48461	0.010	-0.19699	50.00000	Averaged
35 Nitrobenzene	0.29849	0.29424	0.29424	0.010	1.42248	50.00000	Averaged
41 Isophorone	0.59735	0.58731	0.58731	0.010	1.68105	50.00000	Averaged
42 2-Nitrophenol	0.15978	0.16580	0.16580	0.010	-3.77121	20.00000	Averaged
43 2,4-Dimethylphenol	0.29840	0.28807	0.28807	0.010	3.46013	50.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.34764	0.34742	0.34742	0.010	0.06414	50.00000	Averaged
46 2,4-Toluenediamene	0.18250	0.13805	0.13805	0.010	24.35828	50.00000	Averaged
47 1,3,5-Trichlorobenzene	0.25703	0.25542	0.25542	0.010	0.62736	50.00000	Averaged
48 2,4-Dichlorophenol	0.23331	0.22942	0.22942	0.010	1.66908	20.00000	Averaged
49 Benzoic Acid	10.00000	9.64666	0.20698	0.010	3.53341	0.000e+000	Quadratic
50 1,2,4-Trichlorobenzene	0.25441	0.25442	0.25442	0.010	-0.00684	50.00000	Averaged
51 Naphthalene	0.92476	0.88634	0.88634	0.010	4.15517	50.00000	Averaged
52 4-Chloroaniline	0.39899	0.37206	0.37206	0.010	6.74873	50.00000	Averaged
56 Hexachlorobutadiene	0.13263	0.13255	0.13255	0.010	0.06059	20.00000	Averaged
210 Caprolactam	0.10579	0.10659	0.10659	0.010	-0.75927	50.00000	Averaged
57 1,2,3-Trichlorobenzene	0.24036	0.24057	0.24057	0.010	-0.09056	50.00000	Averaged
59 4-Chloro-3-Methylphenol	0.26274	0.25887	0.25887	0.010	1.47304	20.00000	Averaged
62 2-Methylnaphthalene	0.50344	0.50531	0.50531	0.010	-0.37019	50.00000	Averaged
63 1-Methylnaphthalene	0.57890	0.56949	0.56949	0.010	1.62535	50.00000	Averaged
64 Hexachlorocyclopentadiene	5.00000	5.20091	0.25113	0.050	-4.01810	0.000e+000	Quadratic
66 2,4,6-Trichlorophenol	0.29791	0.30298	0.30298	0.010	-1.70103	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.31999	0.32002	0.32002	0.010	-0.00980	50.00000	Averaged
211 1,1'-Biphenyl	1.36402	1.31657	1.31657	0.010	3.47869	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i
Lab File ID: 7SMH0309.D
Analysis Type:
Lab Sample ID: 16
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270C-625.m

Injection Date: 09-MAR-2010 09:30
Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Init. Cal. Times: 10:22 12:55
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
68 1,2,3,5-Tetrachlorobenzene	0.45563	0.44014	0.44014	0.010	3.40142	50.00000	Averaged
70 2-Chloronaphthalene	1.01322	0.98742	0.98742	0.010	2.54662	50.00000	Averaged
73 2-Nitroaniline	0.29737	0.30101	0.30101	0.010	-1.22487	50.00000	Averaged
74 1,2,3,4-Tetrachlorobenzene	0.42129	0.40542	0.40542	0.010	3.76756	50.00000	Averaged
76 Dimethylphthalate	1.16489	1.13462	1.13462	0.010	2.59808	50.00000	Averaged
78 2,6-Dinitrotoluene	0.25990	0.26940	0.26940	0.010	-3.65253	50.00000	Averaged
79 Acenaphthylene	1.66478	1.61014	1.61014	0.010	3.28201	50.00000	Averaged
80 1,2-Dinitrobenzene	0.12946	0.13668	0.13668	0.010	-5.57200	50.00000	Averaged
81 3-Nitroaniline	0.29070	0.30665	0.30665	0.010	-5.48981	50.00000	Averaged
82 Acenaphthene	1.07070	1.02502	1.02502	0.010	4.26660	20.00000	Averaged
83 2,4-Dinitrophenol	10.00000	9.24747	0.18065	0.050	7.52534	0.000e+000	Quadratic
85 4-Nitrophenol	0.14110	0.14817	0.14817	0.050	-5.01149	50.00000	Averaged
86 Dibenzofuran	1.43837	1.39280	1.39280	0.010	3.16811	50.00000	Averaged
87 2,4-Dinitrotoluene	0.35534	0.36828	0.36828	0.010	-3.64129	50.00000	Averaged
91 2,3,5,6-Tetrachlorophenol	0.26899	0.26849	0.26849	0.010	0.18487	50.00000	Averaged
93 Diethylphthalate	1.19394	1.16337	1.16337	0.010	2.56049	50.00000	Averaged
94 Fluorene	1.22227	1.18257	1.18257	0.010	3.24767	50.00000	Averaged
95 4-Chlorophenyl-phenylether	0.54442	0.53833	0.53833	0.010	1.11850	50.00000	Averaged
96 4-Nitroaniline	0.30486	0.33046	0.33046	0.010	-8.39644	50.00000	Averaged
98 4,6-Dinitro-2-methylphenol	5.00000	4.87378	0.12717	0.010	2.52435	0.000e+000	Quadratic
99 N-Nitrosodiphenylamine	0.53622	0.53535	0.53535	0.010	0.16244	20.00000	Averaged
100 1,2-Diphenylhydrazine	0.73220	0.71264	0.71264	0.010	2.67239	50.00000	Averaged
106 4-Bromophenyl-phenylether	0.19246	0.19120	0.19120	0.010	0.65657	50.00000	Averaged
107 Hexachlorobenzene	0.18923	0.18463	0.18463	0.010	2.43185	50.00000	Averaged
212 Atrazine	0.13354	0.13172	0.13172	0.010	1.36377	50.00000	Averaged
111 Pentachlorophenol	10.00000	9.08570	0.12508	0.010	9.14298	0.000e+000	Quadratic
115 Phenanthrene	1.08647	1.05481	1.05481	0.010	2.91403	50.00000	Averaged
116 Anthracene	1.09436	1.05661	1.05661	0.010	3.44928	50.00000	Averaged
119 Carbazole	1.02131	1.00557	1.00557	0.010	1.54105	50.00000	Averaged
120 Di-n-Butylphthalate	1.23953	1.24072	1.24072	0.010	-0.09660	50.00000	Averaged
123 Fluoranthene	1.11335	1.08239	1.08239	0.010	2.78047	20.00000	Averaged
124 Benzidine	0.56868	0.57252	0.57252	0.010	-0.67539	50.00000	Averaged
125 Pyrene	1.03108	0.99914	0.99914	0.010	3.09728	50.00000	Averaged
131 Butylbenzylphthalate	0.48210	0.47119	0.47119	0.010	2.26275	50.00000	Averaged
133 3,3'-Dimethoxybenzidine	0.20887	0.20307	0.20307	0.010	2.77708	50.00000	Averaged
135 3,3'-Dichlorobenzidine	0.36040	0.36170	0.36170	0.010	-0.35967	50.00000	Averaged
136 Benzo(a)Anthracene	0.98989	0.95601	0.95601	0.010	3.42297	50.00000	Averaged
137 Chrysene	0.93409	0.92208	0.92208	0.010	1.28582	50.00000	Averaged
138 4,4'-Methylene bis(o-chloro	0.18888	0.18633	0.18633	0.010	1.34890	50.00000	Averaged
139 bis(2-ethylhexyl)Phthalate	0.68706	0.67113	0.67113	0.010	2.31854	50.00000	Averaged
140 Di-n-octylphthalate	1.25460	1.24805	1.24805	0.010	0.52239	20.00000	Averaged
141 Benzo(b)fluoranthene	1.02799	0.99884	0.99884	0.010	2.83558	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i
Lab File ID: 7SMH0309.D
Analysis Type:
Lab Sample ID: 16
Method: \\camsvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270C-625.m

Injection Date: 09-MAR-2010 09:30
Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Init. Cal. Times: 10:22 12:55
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
142 Benzo(k)fluoranthene	1.09384	1.10877	1.10877	0.010	-1.36497	50.00000	Averaged
146 Benzo(a)pyrene	0.98685	0.97109	0.97109	0.010	1.59724	20.00000	Averaged
149 Indeno(1,2,3-cd)pyrene	1.10283	1.10620	1.10620	0.010	-0.30476	50.00000	Averaged
150 Dibenz(a,h)anthracene	0.92837	0.94290	0.94290	0.010	-1.56509	50.00000	Averaged
151 Benzo(g,h,i)perylene	0.92024	0.92169	0.92169	0.010	-0.15718	50.00000	Averaged
198 1,4-Dioxane	0.43061	0.40489	0.40489	0.010	5.97427	50.00000	Averaged
$ 154 Nitrobenzene-d5	0.30218	0.29376	0.29376	0.010	2.78551	50.00000	Averaged
$ 155 2-Fluorobiphenyl	1.15381	1.11438	1.11438	0.010	3.41673	50.00000	Averaged
$ 156 Terphenyl-d14	0.62828	0.62381	0.62381	0.010	0.71173	50.00000	Averaged
$ 157 Phenol-d5	1.49837	1.45454	1.45454	0.010	2.92530	50.00000	Averaged
$ 158 2-Fluorophenol	1.13412	1.10581	1.10581	0.010	2.49600	50.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.13497	0.13751	0.13751	0.010	-1.88050	50.00000	Averaged
$ 186 2-Chlorophenol-d4	1.18447	1.18011	1.18011	0.010	0.36770	50.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	0.79918	0.78082	0.78082	0.010	2.29788	50.00000	Averaged
M 195 Cresols, total	2.38679	2.34947	2.34947	0.010	1.56356	50.00000	Averaged
101 Diphenylamine	0.53622	0.53535	0.53535	0.010	0.16244	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSS\a4hp7,i\00309a,b\7SHH0309,D
Date : 09-MAR-2010 09:30
Client ID:
Sample Info: 16,00309a,b,8270C-625,1-827042d,sub,2
Column phase: db5,625
Instrument: a4hp7,i
Operator: 001710
Column diameter: 0.32
\\cansvr11\dd\chem\MSS\a4hp7,i\00309a,b\7SHH0309,D
Y (x10^7)
Min
-1,4-Dioxane
-N-Nitrosodimethylamine
-Pyridine
-Ethyl methacrylate
-3-Chloropropionitrile
-Malononitrile
-2-Fluorophenol
-Benzaldehyde+
-Aniline+
-2-Chlorophenol+
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-bis(2-Chloroethoxy)methan+
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Naphthalene-d8+
-Hexachlorobutadiene+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
2,4-Toluenediamene+
-Dimethylphthalate+
-Acenaphthylene+
-3-Nitroaniline
-Dibenzofuran+
-2,3,5,6-Tetrachlorophenol
-Diethylphthalate
Acenaphthene-d10+
-1,2-Diphenylhydrazine+
Fluorene+
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
-Phenanthrene-d10+
-Anthracene
-Carbazole
-Di-n-Butylphthalate
-Fluoranthene+
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
-Chrysene-d12+
3,3'-Dimethoxybenzidine+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\7SMH0309.D
Lab Smp Id: l6
Inj Date : 09-MAR-2010 09:30 Inst ID: a4hp7.i
Operator : 001710
Smp Info : l6,00309a.b,8270C-625,1-827042d.sub,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270C-625.m
Meth Date : 09-Mar-2010 09:50 GruberJ Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.514	3.514	(1.000)	341152	2.00000	
* 2 Naphthalene-d8	136	4.407	4.407	(1.000)	1446738	2.00000	
* 3 Acenaphthene-d10	164	5.675	5.675	(1.000)	804562	2.00000	
* 4 Phenanthrene-d10	188	6.761	6.761	(1.000)	1309544	2.00000	
* 5 Chrysene-d12	240	8.718	8.718	(1.000)	1499707	2.00000	
* 6 Perylene-d12	264	10.157	10.157	(1.000)	1385210	2.00000	
9 Pyridine	79	1.915	1.915	(0.545)	964336	5.00000	4.9528
10 N-Nitrosodimethylamine	74	1.883	1.883	(0.536)	528679	5.00000	4.6673
11 Ethyl methacrylate	69	2.113	2.113	(0.601)	799519	5.00000	4.6790
12 3-Chloropropionitrile	54	2.295	2.295	(0.653)	609576	5.00000	4.7126
13 Malononitrile	66	2.439	2.439	(0.694)	1235188	5.00000	4.8816
209 Benzaldehyde	77	3.225	3.225	(0.918)	628389	5.00000	4.5918
21 Aniline	93	3.289	3.289	(0.936)	1609152	5.00000	4.8796
22 Phenol	94	3.231	3.231	(0.919)	1318193	5.00000	4.8780
23 bis(2-Chloroethyl)ether	93	3.311	3.311	(0.942)	1136591	5.00000	5.0266
24 2-Chlorophenol	128	3.370	3.370	(0.959)	1082806	5.00000	4.9388
26 1,3-Dichlorobenzene	146	3.477	3.477	(0.989)	1086707	5.00000	4.8672
27 1,4-Dichlorobenzene	146	3.525	3.525	(1.003)	1073554	5.00000	4.8639
28 1,2-Dichlorobenzene	146	3.632	3.632	(1.033)	1041393	5.00000	4.8837
29 Benzyl Alcohol	108	3.589	3.589	(1.021)	708190	5.00000	4.9191
30 2-Methylphenol	108	3.642	3.642	(1.037)	965769	5.00000	4.8584
31 bis(2-Chloroisopropyl)ether	45	3.675	3.675	(1.046)	1562362	5.00000	4.8905
37 Acetophenone	105	3.781	3.781	(1.076)	1434185	5.00000	4.9611
32 N-Nitroso-di-n-propylamine	70	3.771	3.771	(1.073)	752586	5.00000	4.8721
192 4-Methylphenol	108	3.749	3.749	(1.067)	1038047	5.00000	4.9823
34 Hexachloroethane	117	3.872	3.872	(1.102)	413313	5.00000	5.0098
35 Nitrobenzene	77	3.910	3.910	(0.887)	1064224	5.00000	4.9289
41 Isophorone	82	4.065	4.065	(0.922)	2124207	5.00000	4.9159
42 2-Nitrophenol	139	4.129	4.129	(0.937)	599676	5.00000	5.1886
43 2,4-Dimethylphenol	107	4.124	4.124	(0.936)	1041907	5.00000	4.8270
44 bis(2-Chloroethoxy)methane	93	4.199	4.199	(0.953)	1256553	5.00000	4.9968
46 2,4-Toluenediamene	121	5.231	5.231	(1.187)	499292	5.00000	3.7821
47 1,3,5-Trichlorobenzene	180	4.135	4.135	(0.938)	923813	5.00000	4.9686

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48 2,4-Dichlorophenol	162	4.290	4.290	(0.973)	829771	5.00000	4.9165
49 Benzoic Acid	122	4.204	4.204	(0.954)	1497257	10.0000	9.6466
50 1,2,4-Trichlorobenzene	180	4.359	4.359	(0.989)	920213	5.00000	5.0003
51 Naphthalene	128	4.423	4.423	(1.004)	3205749	5.00000	4.7922
52 4-Chloroaniline	127	4.445	4.445	(1.008)	1345693	5.00000	4.6626
56 Hexachlorobutadiene	225	4.493	4.493	(1.019)	479423	5.00000	4.9970
210 Caprolactam	113	4.707	4.707	(1.068)	385532	5.00000	5.0380
57 1,2,3-Trichlorobenzene	180	4.520	4.520	(1.025)	870122	5.00000	5.0045
59 4-Chloro-3-Methylphenol	107	4.766	4.766	(1.081)	936278	5.00000	4.9263
62 2-Methylnaphthalene	142	4.915	4.915	(1.115)	1827615	5.00000	5.0185
63 1-Methylnaphthalene	142	4.990	4.990	(1.132)	2059755	5.00000	4.9187
64 Hexachlorocyclopentadiene	237	5.017	5.017	(0.884)	505117	5.00000	5.2009
66 2,4,6-Trichlorophenol	196	5.103	5.103	(0.899)	609411	5.00000	5.0850
67 2,4,5-Trichlorophenol	196	5.135	5.135	(0.905)	643689	5.00000	5.0005
211 1,1'-Biphenyl	154	5.242	5.242	(0.924)	2648154	5.00000	4.8261
68 1,2,3,5-Tetrachlorobenzene	216	5.022	5.022	(0.885)	885291	5.00000	4.8299
70 2-Chloronaphthalene	162	5.274	5.274	(0.929)	1986093	5.00000	4.8727
73 2-Nitroaniline	65	5.333	5.333	(0.940)	605451	5.00000	5.0612
74 1,2,3,4-Tetrachlorobenzene	216	5.242	5.242	(0.924)	815461	5.00000	4.8116
76 Dimethylphthalate	163	5.440	5.440	(0.959)	2282188	5.00000	4.8701
78 2,6-Dinitrotoluene	165	5.498	5.498	(0.969)	541866	5.00000	5.1826
79 Acenaphthylene	152	5.573	5.573	(0.982)	3238638	5.00000	4.8359
80 1,2-Dinitrobenzene	168	5.547	5.547	(0.977)	274909	5.00000	5.2786
81 3-Nitroaniline	138	5.627	5.627	(0.992)	616805	5.00000	5.2745
82 Acenaphthene	153	5.696	5.696	(1.004)	2061731	5.00000	4.7867
83 2,4-Dinitrophenol	184	5.702	5.702	(1.005)	726733	10.0000	9.2475
85 4-Nitrophenol	109	5.718	5.718	(1.008)	298034	5.00000	5.2506
86 Dibenzofuran	168	5.825	5.825	(1.026)	2801480	5.00000	4.8416
87 2,4-Dinitrotoluene	165	5.793	5.793	(1.021)	740768	5.00000	5.1821
91 2,3,5,6-Tetrachlorophenol	232	5.867	5.867	(1.034)	540048	5.00000	4.9908
93 Diethylphthalate	149	5.948	5.948	(1.048)	2340008	5.00000	4.8720
94 Fluorene	166	6.071	6.071	(1.070)	2378632	5.00000	4.8376
95 4-Chlorophenyl-phenylether	204	6.055	6.055	(1.067)	1082802	5.00000	4.9441
96 4-Nitroaniline	138	6.071	6.071	(1.070)	664691	5.00000	5.4198
98 4,6-Dinitro-2-methylphenol	198	6.087	6.087	(0.900)	416350	5.00000	4.8738
99 N-Nitrosodiphenylamine	169	6.135	6.135	(0.907)	1752663	5.00000	4.9919
100 1,2-Diphenylhydrazine	77	6.172	6.172	(0.913)	2333072	5.00000	4.8664
106 4-Bromophenyl-phenylether	248	6.413	6.413	(0.949)	625952	5.00000	4.9672
107 Hexachlorobenzene	284	6.467	6.467	(0.956)	604457	5.00000	4.8784
212 Atrazine	200	6.504	6.504	(0.962)	431224	5.00000	4.9318
111 Pentachlorophenol	266	6.606	6.606	(0.977)	818997	10.0000	9.0857
115 Phenanthrene	178	6.777	6.777	(1.002)	3453286	5.00000	4.8543
116 Anthracene	178	6.814	6.814	(1.008)	3459199	5.00000	4.8275
119 Carbazole	167	6.921	6.921	(1.024)	3292105	5.00000	4.9229
120 Di-n-Butylphthalate	149	7.124	7.124	(1.054)	4061957	5.00000	5.0048
123 Fluoranthene	202	7.643	7.643	(1.131)	3543604	5.00000	4.8610
124 Benzidine	184	7.718	7.718	(0.885)	2146548	5.00000	5.0338
125 Pyrene	202	7.820	7.820	(0.897)	3746049	5.00000	4.8451
131 Butylbenzylphthalate	149	8.237	8.237	(0.945)	1766628	5.00000	4.8869
133 3,3'-Dimethoxybenzidine	244	8.627	8.627	(0.990)	761369	5.00000	4.8611
135 3,3'-Dichlorobenzidine	252	8.665	8.665	(0.994)	1356107	5.00000	5.0180
136 Benzo(a)Anthracene	228	8.713	8.713	(0.999)	3584339	5.00000	4.8288
137 Chrysene	228	8.740	8.740	(1.002)	3457115	5.00000	4.9357
138 4,4'-Methylene bis(o-chloroan	231	8.665	8.665	(0.994)	698596	5.00000	4.9326

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.643	8.643	(0.991)	2516257	5.00000	4.8841
140 Di-n-octylphthalate	149	9.194	9.194	(0.905)	4322020	5.00000	4.9739
141 Benzo(b)fluoranthene	252	9.713	9.713	(0.956)	3459001	5.00000	4.8582
142 Benzo(k)fluoranthene	252	9.740	9.740	(0.959)	3839692	5.00000	5.0682
146 Benzo(a)pyrene	252	10.098	10.098	(0.994)	3362912	5.00000	4.9201
149 Indeno(1,2,3-cd)pyrene	276	11.735	11.735	(1.155)	3830782	5.00000	5.0152
150 Dibenz(a,h)anthracene	278	11.751	11.751	(1.157)	3265296	5.00000	5.0782
151 Benzo(g,h,i)perylene	276	12.222	12.222	(1.203)	3191830	5.00000	5.0078
198 1,4-Dioxane	88	1.712	1.712	(0.487)	345321	5.00000	4.7013
$ 154 Nitrobenzene-d5	82	3.894	3.894	(0.884)	1062491	5.00000	4.8607
$ 155 2-Fluorobiphenyl	172	5.167	5.167	(0.910)	2241479	5.00000	4.8292
$ 156 Terphenyl-d14	244	7.895	7.895	(0.906)	2338829	5.00000	4.9644
$ 157 Phenol-d5	99	3.220	3.220	(0.916)	1240550	5.00000	4.8537
$ 158 2-Fluorophenol	112	2.642	2.642	(0.752)	943124	5.00000	4.8752
$ 159 2,4,6-Tribromophenol	330	6.247	6.247	(1.101)	276588	5.00000	5.0940
$ 186 2-Chlorophenol-d4	132	3.359	3.359	(0.956)	1006494	5.00000	4.9816
$ 187 1,2-Dichlorobenzene-d4	152	3.621	3.621	(1.030)	665944	5.00000	4.8851
M 195 Cresols, total	100				2003816	5.00000	9.8407
101 Diphenylamine	169	6.135	6.135	(0.907)	1752663	5.00000	4.9919

TestAmerica North Canton

RECOVERY REPORT

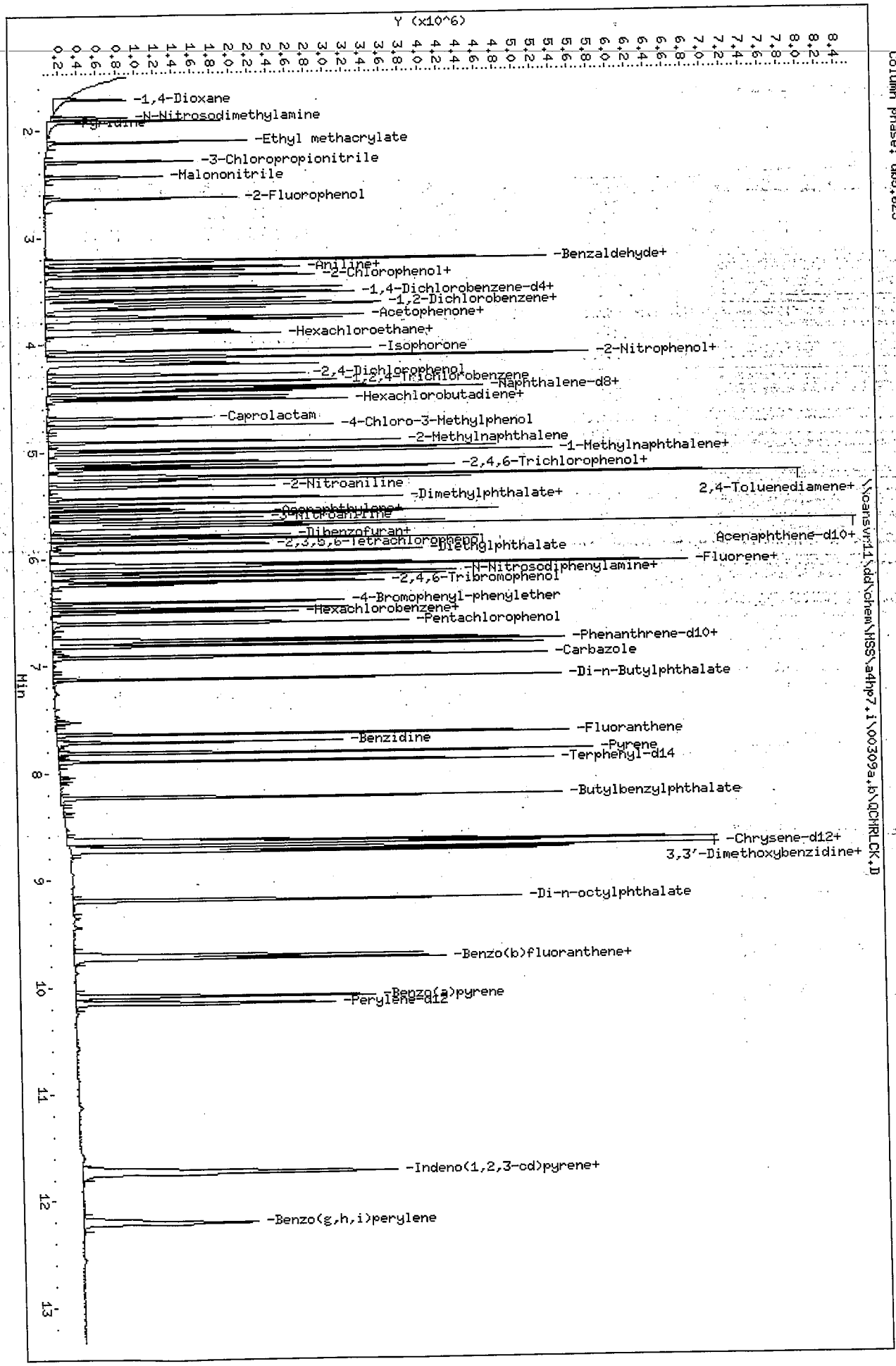
Only PAH compounds needed

Client Name: Client SDG: SDGa00278
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: qcmrlck
Level: LOW Operator: 001710
Data Type: MS DATA SampleType: mrl
SpikeList File: qcmrl.spk Quant Type: ISTD
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270c-625.m
Misc Info:

okmw 3/10/10

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82 Acenaphthene	10.000	9.8404	98.40	70-130
79 Acenaphthylene	10.000	9.9116	99.12	70-130
116 Anthracene	10.000	10.029	100.29	70-130
136 Benzo(a)Anthracene	10.000	10.098	100.98	70-130
141 Benzo(b)fluoranthe	10.000	10.265	102.65	70-130
151 Benzo(g,h,i)peryle	10.000	10.104	101.04	70-130
146 Benzo(a)pyrene	10.000	9.9013	99.01	70-130
29 Benzyl Alcohol	10.000	9.9417	99.42	70-130
44 bis(2-Chloroethoxy	10.000	9.9809	99.81	70-130
23 bis(2-Chloroethyl)	10.000	9.6822	96.82	70-130
31 bis(2-Chloroisopro	10.000	9.9428	99.43	70-130
139 bis(2-ethylhexyl)P	10.000	10.230	102.30	70-130
106 4-Bromophenyl-phen	10.000	10.094	100.94	70-130
131 Butylbenzylphthala	10.000	9.9063	99.06	70-130
52 4-Chloroaniline	10.000	9.8986	98.99	70-130
70 2-Chloronaphthalen	10.000	9.8819	98.82	70-130
95 4-Chlorophenyl-phe	10.000	10.107	101.07	70-130
137 Chrysene	10.000	9.8664	98.66	70-130
150 Dibenz(a,h)anthrac	10.000	10.236	102.36	70-130
86 Dibenzofuran	10.000	9.8314	98.31	70-130
120 Di-n-Butylphthalat	10.000	10.318	103.18	70-130
28 1,2-Dichlorobenzen	10.000	9.9870	99.87	70-130
26 1,3-Dichlorobenzen	10.000	9.9907	99.91	70-130
27 1,4-Dichlorobenzen	10.000	10.028	100.28	70-130
135 3,3'-Dichlorobenzi	10.000	10.053	100.53	70-130
93 Diethylphthalate	10.000	9.9099	99.10	70-130
76 Dimethylphthalate	10.000	9.9230	99.23	70-130
87 2,4-Dinitrotoluene	10.000	10.385	103.85	70-130
78 2,6-Dinitrotoluene	10.000	10.462	104.62	70-130
140 Di-n-octylphthalat	10.000	10.106	101.06	70-130
123 Fluoranthene	10.000	10.144	101.44	70-130
94 Fluorene	10.000	9.8798	98.80	70-130
107 Hexachlorobenzene	10.000	9.9420	99.42	70-130
56 Hexachlorobutadien	10.000	10.067	100.67	70-130
64 Hexachlorocyclopen	10.000	10.976	109.77	70-130
34 Hexachloroethane	10.000	9.8943	98.94	70-130
149 Indeno(1,2,3-cd)py	10.000	10.123	101.23	70-130
41 Isophorone	10.000	9.7845	97.84	70-130
63 1-Methylnaphthalen	10.000	9.8647	98.65	70-130
62 2-Methylnaphthalen	10.000	10.042	100.42	70-130

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51 Naphthalene	10.000	9.8116	98.12	70-130
73 2-Nitroaniline	10.000	10.224	102.24	70-130
81 3-Nitroaniline	10.000	10.597	105.97	70-130
96 4-Nitroaniline	10.000	11.033	110.33	70-130
35 Nitrobenzene	10.000	9.9339	99.34	70-130
32 N-Nitroso-di-n-pro	10.000	9.8666	98.67	70-130
99 N-Nitrosodiphenyla	10.000	10.223	102.23	70-130
115 Phenanthrene	10.000	9.9445	99.44	70-130
125 Pyrene	10.000	10.015	100.15	70-130
50 1,2,4-Trichloroben	10.000	10.005	100.05	70-130
49 Benzoic Acid	20.000	19.722	98.61	70-130
59 4-Chloro-3-Methylp	10.000	9.8143	98.14	70-130
24 2-Chlorophenol	10.000	10.017	100.17	70-130
48 2,4-Dichlorophenol	10.000	10.033	100.33	70-130
43 2,4-Dimethylphenol	10.000	9.7472	97.47	70-130
98 4,6-Dinitro-2-meth	10.000	10.077	100.77	70-130
83 2,4-Dinitrophenol	20.000	18.993	94.97	70-130
30 2-Methylphenol	10.000	9.6571	96.57	70-130
192 4-Methylphenol	10.000	9.9592	99.59	70-130
42 2-Nitrophenol	10.000	10.542	105.42	70-130
85 4-Nitrophenol	10.000	10.664	106.64	70-130
111 Pentachlorophenol	20.000	17.474	87.37	70-130
22 Phenol	10.000	9.9838	99.84	70-130
67 2,4,5-Trichlorophe	10.000	10.002	100.03	70-130
66 2,4,6-Trichlorophe	10.000	10.292	102.92	70-130
119 Carbazole	10.000	10.182	101.82	70-130
142 Benzo(k)fluoranthe	10.000	9.9789	99.79	70-130
37 Acetophenone	10.000	10.040	100.41	70-130
209 Benzaldehyde	10.000	10.388	103.88	70-130
210 Caprolactam	10.000	10.024	100.24	70-130
211 1,1'-Biphenyl	10.000	9.9377	99.38	70-130
212 Atrazine	10.000	10.158	101.58	70-130
21 Aniline	10.000	10.083	100.83	70-130
10 N-Nitrosodimethyla	10.000	9.6109	96.11	70-130
80 1,2-Dinitrobenzene	10.000	10.472	104.72	70-130
91 2,3,5,6-Tetrachlor	10.000	9.8649	98.65	70-130



Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\QCHRLCK.D
Date : 09-MAR-2010 09:49
Client ID:
Sample Info: qcmrlck,00309a,b,8270c-625,1-8270420.sub
Volume Injected (uL): 0.5
Column phase: db5.625

Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32

\\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\QCHRLCK.D

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\QCMRLCK.D
Lab Smp Id: qcmrlck
Inj Date : 09-MAR-2010 09:49
Operator : 001710 Inst ID: a4hp7.i
Smp Info : qcmrlck,00309a.b,8270c-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270c-625.m
Meth Date : 09-Mar-2010 09:50 GruberJ Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 3 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.514	3.514	(1.000)	344367	2.00000	
* 2 Naphthalene-d8	136	4.407	4.407	(1.000)	1456577	2.00000	
* 3 Acenaphthene-d10	164	5.675	5.675	(1.000)	791299	2.00000	
* 4 Phenanthrene-d10	188	6.756	6.761	(1.000)	1270926	2.00000	
* 5 Chrysene-d12	240	8.713	8.718	(1.000)	1465399	2.00000	
* 6 Perylene-d12	264	10.152	10.157	(1.000)	1345869	2.00000	
9 Pyridine	79	1.915	1.915	(0.545)	491492	2.50070	10.003
10 N-Nitrosodimethylamine	74	1.883	1.883	(0.536)	274727	2.40272	9.6109
11 Ethyl methacrylate	69	2.113	2.113	(0.601)	403307	2.33824	9.3530
12 3-Chloropropionitrile	54	2.295	2.295	(0.653)	310952	2.38149	9.5260
13 Malononitrile	66	2.439	2.439	(0.694)	640605	2.50813	10.032
209 Benzaldehyde	77	3.225	3.225	(0.918)	358738	2.59691	10.388
21 Aniline	93	3.290	3.289	(0.936)	839121	2.52079	10.083
22 Phenol	94	3.225	3.231	(0.918)	680844	2.49594	9.9838
23 bis(2-Chloroethyl)ether	93	3.311	3.311	(0.942)	552483	2.42055	9.6822
24 2-Chlorophenol	128	3.370	3.370	(0.959)	554219	2.50428	10.017
26 1,3-Dichlorobenzene	146	3.477	3.477	(0.989)	562916	2.49768	9.9907
27 1,4-Dichlorobenzene	146	3.525	3.525	(1.003)	558568	2.50703	10.028
28 1,2-Dichlorobenzene	146	3.632	3.632	(1.033)	537416	2.49674	9.9870
29 Benzyl Alcohol	108	3.584	3.589	(1.020)	361194	2.48543	9.9417

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
30	2-Methylphenol	108	3.643	3.642	(1.037)	484438	2.41427	9.6571
31	bis(2-Chloroisopropyl)ether	45	3.669	3.675	(1.044)	801594	2.48571	9.9428
37	Acetophenone	105	3.776	3.781	(1.075)	732481	2.51014	10.040
32	N-Nitroso-di-n-propylamine	70	3.766	3.771	(1.072)	384613	2.46666	9.8666
192	4-Methylphenol	108	3.744	3.749	(1.065)	523629	2.48980	9.9592
34	Hexachloroethane	117	3.867	3.872	(1.100)	205994	2.47358	9.8943
35	Nitrobenzene	77	3.905	3.910	(0.886)	539869	2.48347	9.9339
41	Isophorone	82	4.065	4.065	(0.922)	1064170	2.44612	9.7845
42	2-Nitrophenol	139	4.124	4.129	(0.936)	306665	2.63543	10.542
43	2,4-Dimethylphenol	107	4.124	4.124	(0.936)	529561	2.43680	9.7472
44	bis(2-Chloroethoxy)methane	93	4.194	4.199	(0.951)	631747	2.49523	9.9809
46	2,4-Toluenediamene	121	5.226	5.231	(1.186)	296608	2.23160	8.9264
47	1,3,5-Trichlorobenzene	180	4.135	4.135	(0.938)	472873	2.52612	10.104
48	2,4-Dichlorophenol	162	4.290	4.290	(0.973)	426217	2.50836	10.033
49	Benzoic Acid	122	4.177	4.204	(0.948)	704037	4.93061	19.722
50	1,2,4-Trichlorobenzene	180	4.354	4.359	(0.988)	463458	2.50137	10.005
51	Naphthalene	128	4.423	4.423	(1.004)	1652024	2.45291	9.8116
52	4-Chloroaniline	127	4.440	4.445	(1.007)	719086	2.47466	9.8986
56	Hexachlorobutadiene	225	4.493	4.493	(1.019)	243116	2.51685	10.067
210	Caprolactam	113	4.691	4.707	(1.064)	193068	2.50589	10.024
57	1,2,3-Trichlorobenzene	180	4.520	4.520	(1.025)	435961	2.49050	9.9620
59	4-Chloro-3-Methylphenol	107	4.766	4.766	(1.081)	469488	2.45359	9.8143
62	2-Methylnaphthalene	142	4.910	4.915	(1.114)	920517	2.51060	10.042
63	1-Methylnaphthalene	142	4.985	4.990	(1.131)	1039751	2.46617	9.8647
64	Hexachlorocyclopentadiene	237	5.017	5.017	(0.884)	250190	2.74413	10.976
66	2,4,6-Trichlorophenol	196	5.103	5.103	(0.899)	303274	2.57300	10.292
67	2,4,5-Trichlorophenol	196	5.135	5.135	(0.905)	316588	2.50063	10.002
211	1,1'-Biphenyl	154	5.242	5.242	(0.924)	1340774	2.48442	9.9377
68	1,2,3,5-Tetrachlorobenzene	216	5.017	5.022	(0.884)	448924	2.49027	9.9611
70	2-Chloronaphthalene	162	5.269	5.274	(0.928)	990361	2.47047	9.8819
73	2-Nitroaniline	65	5.327	5.333	(0.939)	300709	2.55590	10.224
74	1,2,3,4-Tetrachlorobenzene	216	5.236	5.242	(0.923)	411634	2.46955	9.8782
76	Dimethylphthalate	163	5.440	5.440	(0.959)	1143352	2.48076	9.9230
78	2,6-Dinitrotoluene	165	5.493	5.498	(0.968)	268961	2.61557	10.462
79	Acenaphthylene	152	5.573	5.573	(0.982)	1632105	2.47789	9.9116
80	1,2-Dinitrobenzene	168	5.541	5.547	(0.976)	134099	2.61803	10.472
81	3-Nitroaniline	138	5.622	5.627	(0.991)	304693	2.64920	10.597
82	Acenaphthene	153	5.696	5.696	(1.004)	1042159	2.46011	9.8404
83	2,4-Dinitrophenol	184	5.696	5.702	(1.004)	330606	4.74831	18.993(Q)
85	4-Nitrophenol	109	5.718	5.718	(1.008)	148840	2.66612	10.664
86	Dibenzofuran	168	5.819	5.825	(1.025)	1398734	2.45785	9.8314
87	2,4-Dinitrotoluene	165	5.787	5.793	(1.020)	365025	2.59634	10.385
91	2,3,5,6-Tetrachlorophenol	232	5.868	5.867	(1.034)	262470	2.46622	9.8649
93	Diethylphthalate	149	5.943	5.948	(1.047)	1170316	2.47748	9.9099
94	Fluorene	166	6.071	6.071	(1.070)	1194444	2.46995	9.8798
95	4-Chlorophenyl-phenylether	204	6.049	6.055	(1.066)	544285	2.52686	10.107
96	4-Nitroaniline	138	6.066	6.071	(1.069)	332697	2.75825	11.033
98	4,6-Dinitro-2-methylphenol	198	6.082	6.087	(0.900)	191384	2.51929	10.077
99	N-Nitrosodiphenylamine	169	6.135	6.135	(0.908)	870838	2.55566	10.223
100	1,2-Diphenylhydrazine	77	6.167	6.172	(0.913)	1167524	2.50925	10.037
106	4-Bromophenyl-phenylether	248	6.413	6.413	(0.949)	308628	2.52350	10.094
107	Hexachlorobenzene	284	6.467	6.467	(0.957)	298882	2.48549	9.9420
212	Atrazine	200	6.499	6.504	(0.962)	215506	2.53958	10.158
111	Pentachlorophenol	266	6.606	6.606	(0.978)	368174	4.36838	17.474

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
115 Phenanthrene	178	6.777	6.777	(1.003)	1716439	2.48612	9.9445
116 Anthracene	178	6.814	6.814	(1.009)	1743612	2.50726	10.029
119 Carbazole	167	6.916	6.921	(1.024)	1652093	2.54557	10.182
120 Di-n-Butylphthalate	149	7.125	7.124	(1.055)	2031802	2.57950	10.318
123 Fluoranthene	202	7.643	7.643	(1.131)	1794145	2.53592	10.144
124 Benzidine	184	7.718	7.718	(0.886)	1061375	2.54725	10.189
125 Pyrene	202	7.815	7.820	(0.897)	1891440	2.50366	10.015
131 Butylbenzylphthalate	149	8.232	8.237	(0.945)	874817	2.47658	9.9063
133 3,3'-Dimethoxybenzidine	244	8.622	8.627	(0.990)	400836	2.61915	10.477
135 3,3'-Dichlorobenzidine	252	8.660	8.665	(0.994)	663648	2.51318	10.053
136 Benzo(a)Anthracene	228	8.708	8.713	(0.999)	1831067	2.52458	10.098
137 Chrysene	228	8.734	8.740	(1.002)	1688165	2.46661	9.8664
138 4,4'-Methylene bis(o-chloroan	231	8.660	8.665	(0.994)	343566	2.48260	9.9304
139 bis(2-ethylhexyl)Phthalate	149	8.638	8.643	(0.991)	1287524	2.55760	10.230
140 Di-n-octylphthalate	149	9.189	9.194	(0.905)	2133049	2.52652	10.106
141 Benzo(b)fluoranthene	252	9.703	9.713	(0.956)	1775188	2.56616	10.265
142 Benzo(k)fluoranthene	252	9.735	9.740	(0.959)	1836316	2.49472	9.9789
146 Benzo(a)pyrene	252	10.088	10.098	(0.994)	1643834	2.47533	9.9013
149 Indeno(1,2,3-cd)pyrene	276	11.724	11.735	(1.155)	1878220	2.53083	10.123
150 Dibenz(a,h)anthracene	278	11.735	11.751	(1.156)	1598630	2.55890	10.236
151 Benzo(g,h,i)perylene	276	12.200	12.222	(1.202)	1564285	2.52604	10.104
198 1,4-Dioxane	88	1.712	1.712	(0.487)	172244	2.32308	9.2923
101 Diphenylamine	169	6.135	6.135	(0.908)	870838	2.55566	10.223

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

RECOVERY REPORT

Only PAH compounds needed

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: qcmrlcl
Level: LOW
Data Type: MS DATA
SpikeList File: qcmrl.spk
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270c-625.m
Misc Info:

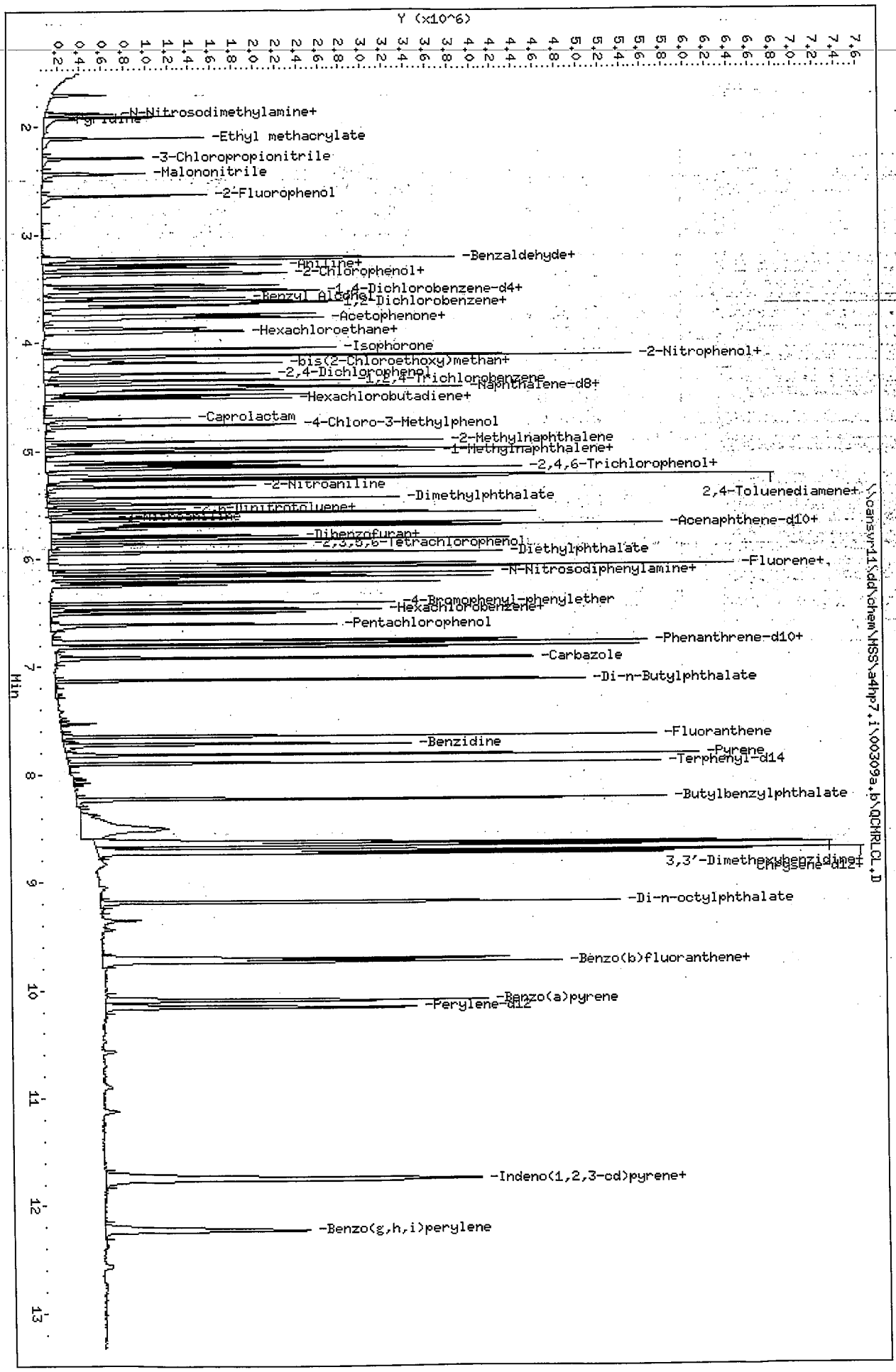
Client SDG: SDGa00278
Fraction: SV

Operator: 001710
SampleType: mrl
Quant Type: ISTD

OKNP 3/16/10

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82 Acenaphthene	10.000	9.6577	96.58	70-130
79 Acenaphthylene	10.000	9.7763	97.76	70-130
116 Anthracene	10.000	9.8147	98.15	70-130
136 Benzo(a)Anthracene	10.000	10.053	100.53	70-130
141 Benzo(b)fluoranthe	10.000	9.9214	99.21	70-130
151 Benzo(g,h,i)peryle	10.000	10.170	101.71	70-130
146 Benzo(a)pyrene	10.000	9.8142	98.14	70-130
29 Benzyl Alcohol	10.000	9.7769	97.77	70-130
44 bis(2-Chloroethoxy	10.000	9.7909	97.91	70-130
23 bis(2-Chloroethyl)	10.000	10.594	105.95	70-130
31 bis(2-Chloroisopro	10.000	9.3634	93.63	70-130
139 bis(2-ethylhexyl)P	10.000	9.9371	99.37	70-130
106 4-Bromophenyl-phen	10.000	9.8522	98.52	70-130
131 Butylbenzylphthala	10.000	9.8072	98.07	70-130
52 4-Chloroaniline	10.000	9.9411	99.41	70-130
70 2-Chloronaphthalen	10.000	9.5718	95.72	70-130
95 4-Chlorophenyl-phe	10.000	10.072	100.72	70-130
137 Chrysene	10.000	9.9357	99.36	70-130
150 Dibenz(a,h)anthrac	10.000	10.439	104.39	70-130
86 Dibenzofuran	10.000	9.8706	98.71	70-130
120 Di-n-Butylphthalat	10.000	9.9552	99.55	70-130
28 1,2-Dichlorobenzen	10.000	9.8672	98.67	70-130
26 1,3-Dichlorobenzen	10.000	9.7842	97.84	70-130
27 1,4-Dichlorobenzen	10.000	9.8570	98.57	70-130
135 3,3'-Dichlorobenzi	10.000	10.033	100.33	70-130
93 Diethylphthalate	10.000	9.8128	98.13	70-130
76 Dimethylphthalate	10.000	9.8830	98.83	70-130
87 2,4-Dinitrotoluene	10.000	10.582	105.82	70-130
78 2,6-Dinitrotoluene	10.000	10.446	104.46	70-130
140 Di-n-octylphthalat	10.000	9.8270	98.27	70-130
123 Fluoranthene	10.000	10.047	100.47	70-130
94 Fluorene	10.000	9.8982	98.98	70-130
107 Hexachlorobenzene	10.000	9.7902	97.90	70-130
56 Hexachlorobutadien	10.000	10.047	100.47	70-130
64 Hexachlorocyclopen	10.000	5.0093	50.09*	70-130
34 Hexachloroethane	10.000	8.9112	89.11	70-130
149 Indeno(1,2,3-cd)py	10.000	10.239	102.39	70-130
41 Isophorone	10.000	9.7748	97.75	70-130
63 1-Methylnaphthalen	10.000	10.279	102.79	70-130
62 2-Methylnaphthalen	10.000	10.377	103.77	70-130

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51 Naphthalene	10.000	9.8019	98.02	70-130
73 2-Nitroaniline	10.000	9.9384	99.38	70-130
81 3-Nitroaniline	10.000	10.774	107.74	70-130
96 4-Nitroaniline	10.000	10.965	109.65	70-130
35 Nitrobenzene	10.000	9.7178	97.18	70-130
32 N-Nitroso-di-n-pro	10.000	9.6517	96.52	70-130
99 N-Nitrosodiphenyla	10.000	9.8807	98.81	70-130
115 Phenanthrene	10.000	9.7112	97.11	70-130
125 Pyrene	10.000	9.6327	96.33	70-130
50 1,2,4-Trichloroben	10.000	10.328	103.28	70-130
49 Benzoic Acid	20.000	10.582	52.91*	70-130
59 4-Chloro-3-Methylp	10.000	10.668	106.68	70-130
24 2-Chlorophenol	10.000	9.9765	99.76	70-130
48 2,4-Dichlorophenol	10.000	9.9513	99.51	70-130
43 2,4-Dimethylphenol	10.000	10.011	100.11	70-130
98 4,6-Dinitro-2-meth	10.000	7.2650	72.65	70-130
83 2,4-Dinitrophenol	20.000	11.296	56.48*	70-130
30 2-Methylphenol	10.000	9.9851	99.85	70-130
192 4-Methylphenol	10.000	9.9110	99.11	70-130
42 2-Nitrophenol	10.000	10.157	101.57	70-130
85 4-Nitrophenol	10.000	9.1259	91.26	70-130
111 Pentachlorophenol	20.000	15.333	76.66	70-130
22 Phenol	10.000	9.8834	98.83	70-130
67 2,4,5-Trichlorophe	10.000	10.466	104.66	70-130
66 2,4,6-Trichlorophe	10.000	9.9103	99.10	70-130
119 Carbazole	10.000	9.9790	99.79	70-130
142 Benzo(k)fluoranthe	10.000	9.7005	97.01	70-130
37 Acetophenone	10.000	9.9246	99.25	70-130
209 Benzaldehyde	10.000	10.421	104.21	70-130
210 Caprolactam	10.000	10.486	104.86	70-130
211 1,1'-Biphenyl	10.000	9.4327	94.33	70-130
212 Atrazine	10.000	10.006	100.06	70-130
21 Aniline	10.000	9.4935	94.94	70-130
10 N-Nitrosodimethyla	10.000	9.2046	92.05	70-130
80 1,2-Dinitrobenzene	10.000	10.492	104.92	70-130
91 2,3,5,6-Tetrachlor	10.000	10.042	100.42	70-130



Data File: \\cansvr11\dd\chem\HSS\a4hp7.i\00309a.b\QCHRLCL.D
Date : 09-MAR-2010 15:54
Client ID:
Sample Info: qcmrlcl,00309a.b,8270c-625,1-827042d.sub
Volume Injected (uL): 0.5
Column phase: db5.625

Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32

\\cansvr11\dd\chem\HSS\a4hp7.i\00309a.b\QCHRLCL.D

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\QCMRLCL.D
Lab Smp Id: qcmrlcl
Inj Date : 09-MAR-2010 15:54
Operator : 001710 Inst ID: a4hp7.i
Smp Info : qcmrlcl,00309a.b,8270c-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270c-625.m
Meth Date : 10-Mar-2010 09:20 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 3 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.514	3.514	(1.000)	291242	2.00000	
* 2	Naphthalene-d8	136	4.407	4.407	(1.000)	1250065	2.00000	
* 3	Acenaphthene-d10	164	5.675	5.675	(1.000)	757870	2.00000	
* 4	Phenanthrene-d10	188	6.761	6.761	(1.000)	1310966	2.00000	
* 5	Chrysene-d12	240	8.718	8.718	(1.000)	1555882	2.00000	
* 6	Perylene-d12	264	10.157	10.157	(1.000)	1477634	2.00000	
9	Pyridine	79	1.909	1.915	(0.543)	373821	2.24893	8.9957
10	N-Nitrosodimethylamine	74	1.877	1.883	(0.534)	222524	2.30116	9.2046
11	Ethyl methacrylate	69	2.107	2.113	(0.600)	328554	2.25230	9.0092
12	3-Chloropropionitrile	54	2.294	2.295	(0.653)	251189	2.27470	9.0988
13	Malononitrile	66	2.439	2.439	(0.694)	516298	2.39016	9.5606
209	Benzaldehyde	77	3.225	3.225	(0.918)	304376	2.60530	10.421
21	Aniline	93	3.289	3.289	(0.936)	668170	2.37338	9.4935
22	Phenol	94	3.231	3.231	(0.919)	570024	2.47086	9.8834
23	bis(2-Chloroethyl)ether	93	3.311	3.311	(0.942)	511282	2.64864	10.594
24	2-Chlorophenol	128	3.370	3.370	(0.959)	466818	2.49412	9.9765
26	1,3-Dichlorobenzene	146	3.477	3.477	(0.989)	466235	2.44605	9.7842
27	1,4-Dichlorobenzene	146	3.525	3.525	(1.003)	464338	2.46426	9.8570
28	1,2-Dichlorobenzene	146	3.632	3.632	(1.033)	449061	2.46681	9.8672
29	Benzyl Alcohol	108	3.589	3.589	(1.021)	300409	2.44423	9.7769
30	2-Methylphenol	108	3.648	3.642	(1.038)	423621	2.49628	9.9851

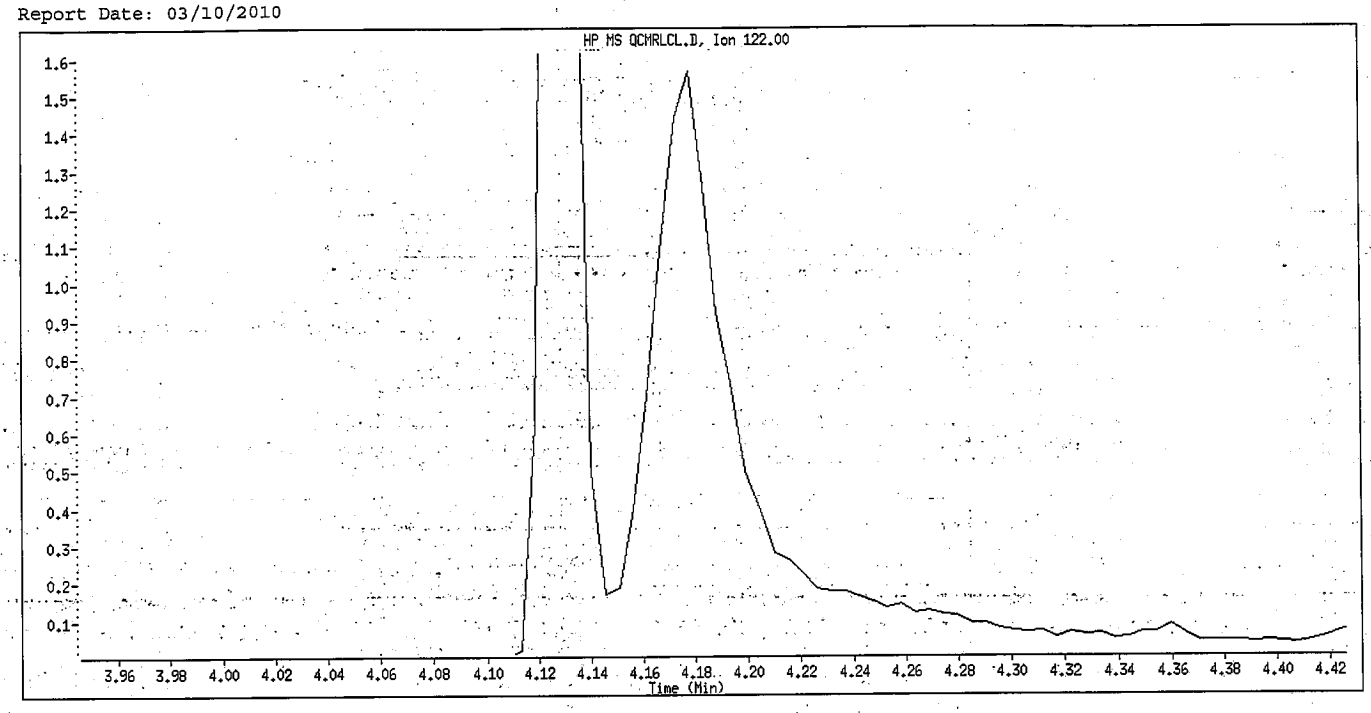
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
31 bis(2-Chloroisopropyl)ether	45	3.674	3.675	(1.046)	638429	2.34086	9.3634
37 Acetophenone	105	3.781	3.781	(1.076)	612330	2.48116	9.9246
32 N-Nitroso-di-n-propylamine	70	3.765	3.771	(1.072)	318194	2.41293	9.6517
192 4-Methylphenol	108	3.749	3.749	(1.067)	440708	2.47776	9.9110
34 Hexachloroethane	117	3.872	3.872	(1.102)	156906	2.22781	8.9112
35 Nitrobenzene	77	3.910	3.910	(0.887)	453249	2.42946	9.7178
41 Isophorone	82	4.065	4.065	(0.922)	912392	2.44371	9.7748
42 2-Nitrophenol	139	4.129	4.129	(0.937)	253585	2.53928	10.157
43 2,4-Dimethylphenol	107	4.129	4.124	(0.937)	466762	2.50265	10.011
44 bis(2-Chloroethoxy)methane	93	4.199	4.199	(0.953)	531855	2.44772	9.7909
46 2,4-Toluenediamene	121	5.231	5.231	(1.187)	331064	2.90232	11.609
47 1,3,5-Trichlorobenzene	180	4.134	4.135	(0.938)	405744	2.52559	10.102
48 2,4-Dichlorophenol	162	4.295	4.290	(0.975)	362795	2.48783	9.9513
49 Benzoic Acid	122	4.177	4.204	(0.948)	285325	2.64540	10.582(QRM)
50 1,2,4-Trichlorobenzene	180	4.359	4.359	(0.989)	410583	2.58208	10.328
51 Naphthalene	128	4.423	4.423	(1.004)	1416396	2.45048	9.8019
52 4-Chloroaniline	127	4.445	4.445	(1.008)	619782	2.48528	9.9411
56 Hexachlorobutadiene	225	4.493	4.493	(1.019)	208233	2.51186	10.047
210 Caprolactam	113	4.701	4.707	(1.067)	173345	2.62158	10.486
57 1,2,3-Trichlorobenzene	180	4.525	4.520	(1.027)	384144	2.55702	10.228
59 4-Chloro-3-Methylphenol	107	4.771	4.766	(1.083)	437982	2.66707	10.668
62 2-Methylnaphthalene	142	4.915	4.915	(1.115)	816298	2.59416	10.377
63 1-Methylnaphthalene	142	4.990	4.990	(1.132)	929805	2.56973	10.279
64 Hexachlorocyclopentadiene	237	5.017	5.017	(0.884)	102292	1.25232	5.0093(R)
66 2,4,6-Trichlorophenol	196	5.108	5.103	(0.900)	279689	2.47757	9.9103
67 2,4,5-Trichlorophenol	196	5.140	5.135	(0.906)	317249	2.61638	10.466
211 1,1'-Biphenyl	154	5.247	5.242	(0.925)	1218887	2.35819	9.4327
68 1,2,3,5-Tetrachlorobenzene	216	5.022	5.022	(0.885)	404761	2.34433	9.3773
70 2-Chloronaphthalene	162	5.274	5.274	(0.929)	918759	2.39295	9.5718
73 2-Nitroaniline	65	5.333	5.333	(0.940)	279970	2.48459	9.9384
74 1,2,3,4-Tetrachlorobenzene	216	5.242	5.242	(0.924)	380898	2.38595	9.5438
76 Dimethylphthalate	163	5.445	5.440	(0.959)	1090630	2.47075	9.8830
78 2,6-Dinitrotoluene	165	5.498	5.498	(0.969)	257197	2.61149	10.446
79 Acenaphthylene	152	5.579	5.573	(0.983)	1541827	2.44408	9.7763
80 1,2-Dinitrobenzene	168	5.546	5.547	(0.977)	128672	2.62288	10.492
81 3-Nitroaniline	138	5.632	5.627	(0.992)	296700	2.69349	10.774
82 Acenaphthene	153	5.702	5.696	(1.005)	979595	2.41442	9.6577
83 2,4-Dinitrophenol	184	5.707	5.702	(1.006)	154628	2.82397	11.296(QR)
85 4-Nitrophenol	109	5.734	5.718	(1.010)	121986	2.28148	9.1259
86 Dibenzofuran	168	5.825	5.825	(1.026)	1344991	2.46766	9.8706
87 2,4-Dinitrotoluene	165	5.793	5.793	(1.021)	356223	2.64550	10.582
91 2,3,5,6-Tetrachlorophenol	232	5.873	5.867	(1.035)	255895	2.51050	10.042
93 Diethylphthalate	149	5.948	5.948	(1.048)	1109893	2.45320	9.8128
94 Fluorene	166	6.076	6.071	(1.071)	1146110	2.47454	9.8982
95 4-Chlorophenyl-phenylether	204	6.055	6.055	(1.067)	519450	2.51794	10.072
96 4-Nitroaniline	138	6.076	6.071	(1.071)	316672	2.74119	10.965
98 4,6-Dinitro-2-methylphenol	198	6.092	6.087	(0.901)	132388	1.81626	7.2650
99 N-Nitrosodiphenylamine	169	6.140	6.135	(0.908)	868228	2.47018	9.8807
100 1,2-Diphenylhydrazine	77	6.172	6.172	(0.913)	1108290	2.30919	9.2368
106 4-Bromophenyl-phenylether	248	6.413	6.413	(0.949)	310725	2.46305	9.8522
107 Hexachlorobenzene	284	6.472	6.467	(0.957)	303592	2.44755	9.7902
212 Atrazine	200	6.504	6.504	(0.962)	218956	2.50143	10.006
111 Pentachlorophenol	266	6.611	6.606	(0.978)	330506	3.83325	15.333
115 Phenanthrene	178	6.782	6.777	(1.003)	1728973	2.42779	9.7112

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
116	Anthracene	178	6.819	6.814	(1.009)	1760104	2.45367	9.8147
119	Carbazole	167	6.926	6.921	(1.025)	1670124	2.49476	9.9790
120	Di-n-Butylphthalate	149	7.130	7.124	(1.055)	2022124	2.48880	9.9552
123	Fluoranthene	202	7.648	7.643	(1.131)	1832991	2.51170	10.047
124	Benzidine	184	7.723	7.718	(0.886)	1095969	2.47731	9.9092
125	Pyrene	202	7.820	7.820	(0.897)	1931641	2.40818	9.6327
131	Butylbenzylphthalate	149	8.231	8.237	(0.944)	919539	2.45180	9.8072
133	3,3'-Dimethoxybenzidine	244	8.622	8.627	(0.989)	488293	3.00506	12.020
135	3,3'-Dichlorobenzidine	252	8.659	8.665	(0.993)	703220	2.50817	10.033
136	Benzo(a)Anthracene	228	8.708	8.713	(0.999)	1935362	2.51320	10.053
137	Chrysene	228	8.740	8.740	(1.002)	1804984	2.48393	9.9357
138	4,4'-Methylene bis(o-chloroan	231	8.659	8.665	(0.993)	368206	2.50592	10.024
139	bis(2-ethylhexyl)Phthalate	149	8.638	8.643	(0.991)	1327829	2.48427	9.9371
140	Di-n-octylphthalate	149	9.184	9.194	(0.904)	2277222	2.45676	9.8270
141	Benzo(b)fluoranthene	252	9.708	9.713	(0.956)	1883823	2.48036	9.9214
142	Benzo(k)fluoranthene	252	9.740	9.740	(0.959)	1959861	2.42513	9.7005
146	Benzo(a)pyrene	252	10.093	10.098	(0.994)	1788897	2.45356	9.8142
149	Indeno(1,2,3-cd)pyrene	276	11.740	11.735	(1.156)	2085687	2.55978	10.239
150	Dibenz(a,h)anthracene	278	11.756	11.751	(1.157)	1790035	2.60977	10.439
151	Benzo(g,h,i)perylene	276	12.222	12.222	(1.203)	1728711	2.54263	10.170
198	1,4-Dioxane	88	1.701	1.712	(0.484)	136735	2.18056	8.7222
101	Diphenylamine	169	6.140	6.135	(0.908)	868228	2.47018	9.8807

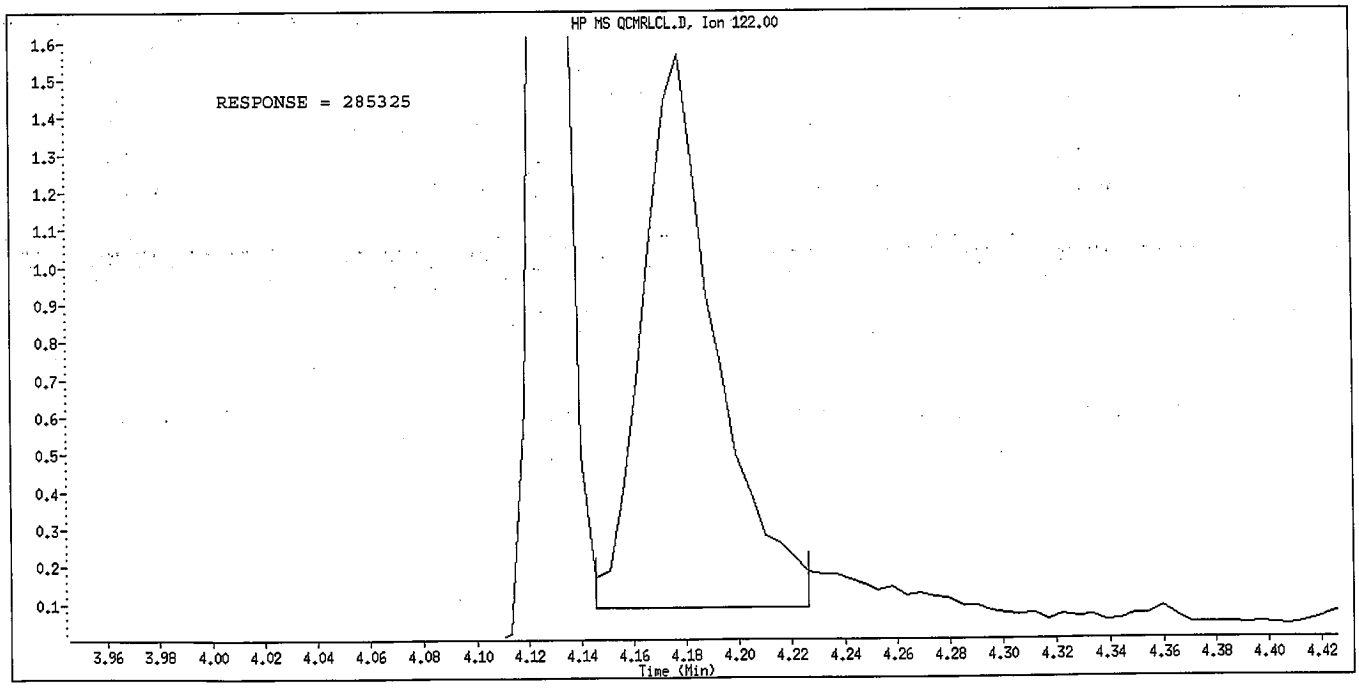
QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File Name: QCMRLCL.D
Inj. Date and Time: 09-MAR-2010 15:54
Instrument ID: a4hp7.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 03/10/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Report Date: 12-Mar-2010 13:02

Calibration History

Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Start Cal Date: 05-MAR-2010 10:22
End Cal Date : 05-MAR-2010 12:55
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
05-MAR-2010 11:38	pah	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SLL0305.D
Cal Level: 2 , Cal Amount: 0.25000		
05-MAR-2010 11:19	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SL0305.D
Cal Level: 3 , Cal Amount: 0.50000		
05-MAR-2010 11:00	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SML0305.D
Cal Level: 4 , Cal Amount: 1.00000		
05-MAR-2010 10:41	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SM0305.D
Cal Level: 5 , Cal Amount: 2.50000		
05-MAR-2010 10:22	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMM0305.D
Cal Level: 6 , Cal Amount: 5.00000		
05-MAR-2010 12:55	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SMH0305.D
Cal Level: 7 , Cal Amount: 7.50000		
05-MAR-2010 12:36	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SH0305.D
Cal Level: 8 , Cal Amount: 10.00000		

05-MAR-2010 12:17	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHH0305.D

Cal Level: 9 , Cal Amount: 12.50000		
05-MAR-2010 11:57	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7SHHH0305.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

12-MAR-2010 09:31	1-827042d	\\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\7SMH0312.D

OKmu 3/17/10

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i
Lab File ID: 7SMH0312.D
Analysis Type:
Lab Sample ID: 16
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m

Injection Date: 12-MAR-2010 09:31
Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Init. Cal. Times: 10:22 12:55
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
9 Pyridine	1.14147	1.05473	1.05473	0.010	7.59844	50.00000	Averaged
10 N-Nitrosodimethylamine	0.66406	0.65361	0.65361	0.010	1.57369	50.00000	Averaged
11 Ethyl methacrylate	1.00174	0.94904	0.94904	0.010	5.26093	50.00000	Averaged
12 3-Chloropropionitrile	0.75832	0.72896	0.72896	0.010	3.87197	50.00000	Averaged
13 Malononitrile	1.48337	1.48928	1.48928	0.010	-0.39879	50.00000	Averaged
209 Benzaldehyde	0.80229	0.77996	0.77996	0.010	2.78271	50.00000	Averaged
21 Aniline	1.93328	1.90000	1.90000	0.010	1.72183	50.00000	Averaged
22 Phenol	1.58424	1.55665	1.55665	0.010	1.74173	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.32560	1.39296	1.39296	0.010	-5.08140	50.00000	Averaged
24 2-Chlorophenol	1.28531	1.23487	1.23487	0.010	3.92402	50.00000	Averaged
26 1,3-Dichlorobenzene	1.30893	1.24711	1.24711	0.010	4.72233	50.00000	Averaged
27 1,4-Dichlorobenzene	1.29397	1.23221	1.23221	0.010	4.77281	20.00000	Averaged
28 1,2-Dichlorobenzene	1.25010	1.18182	1.18182	0.010	5.46259	50.00000	Averaged
29 Benzyl Alcohol	0.84401	0.79826	0.79826	0.010	5.42019	50.00000	Averaged
30 2-Methylphenol	1.16536	1.17190	1.17190	0.010	-0.56146	50.00000	Averaged
31 bis(2-Chloroisopropyl)ether	1.87289	1.81955	1.81955	0.010	2.84806	50.00000	Averaged
37 Acetophenone	1.69476	1.65921	1.65921	0.010	2.09726	50.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.90557	0.86536	0.86536	0.050	4.44025	50.00000	Averaged
192 4-Methylphenol	1.22143	1.20138	1.20138	0.010	1.64126	50.00000	Averaged
34 Hexachloroethane	0.48366	0.46194	0.46194	0.010	4.49072	50.00000	Averaged
35 Nitrobenzene	0.29849	0.28805	0.28805	0.010	3.49639	50.00000	Averaged
41 Isophorone	0.59735	0.57199	0.57199	0.010	4.24497	50.00000	Averaged
42 2-Nitrophenol	0.15978	0.16401	0.16401	0.010	-2.65179	20.00000	Averaged
43 2,4-Dimethylphenol	0.29840	0.28480	0.28480	0.010	4.55554	50.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.34764	0.33666	0.33666	0.010	3.15898	50.00000	Averaged
46 2,4-Toluenediamene	0.18250	0.13670	0.13670	0.010	25.09655	50.00000	Averaged
47 1,3,5-Trichlorobenzene	0.25703	0.24608	0.24608	0.010	4.26075	50.00000	Averaged
48 2,4-Dichlorophenol	0.23331	0.22526	0.22526	0.010	3.45250	20.00000	Averaged
49 Benzoic Acid	10.00000	9.03088	0.19216	0.010	9.69120	0.000e+000	Quadratic
50 1,2,4-Trichlorobenzene	0.25441	0.24604	0.24604	0.010	3.29039	50.00000	Averaged
51 Naphthalene	0.92476	0.88526	0.88526	0.010	4.27159	50.00000	Averaged
52 4-Chloroaniline	0.39899	0.36852	0.36852	0.010	7.63564	50.00000	Averaged
56 Hexachlorobutadiene	0.13263	0.12719	0.12719	0.010	4.10238	20.00000	Averaged
210 Caprolactam	0.10579	0.10443	0.10443	0.010	1.28688	50.00000	Averaged
57 1,2,3-Trichlorobenzene	0.24036	0.23261	0.23261	0.010	3.22161	50.00000	Averaged
59 4-Chloro-3-Methylphenol	0.26274	0.25103	0.25103	0.010	4.45382	20.00000	Averaged
62 2-Methylnaphthalene	0.50344	0.48711	0.48711	0.010	3.24374	50.00000	Averaged
63 1-Methylnaphthalene	0.57890	0.55125	0.55125	0.010	4.77537	50.00000	Averaged
64 Hexachlorocyclopentadiene	5.00000	5.16047	0.24902	0.050	-3.20933	0.000e+000	Quadratic
66 2,4,6-Trichlorophenol	0.29791	0.30624	0.30624	0.010	-2.79772	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.31999	0.32197	0.32197	0.010	-0.62000	50.00000	Averaged
211 1,1'-Biphenyl	1.36402	1.30634	1.30634	0.010	4.22847	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i
Lab File ID: 7SMH0312.D
Analysis Type:
Lab Sample ID: 16
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m

Injection Date: 12-MAR-2010 09:31
Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Init. Cal. Times: 10:22 12:55
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
68 1,2,3,5-Tetrachlorobenzene	0.45563	0.43353	0.43353	0.010	4.85159	50.00000	Averaged
70 2-Chloronaphthalene	1.01322	0.97414	0.97414	0.010	3.85714	50.00000	Averaged
73 2-Nitroaniline	0.29737	0.29547	0.29547	0.010	0.63896	50.00000	Averaged
74 1,2,3,4-Tetrachlorobenzene	0.42129	0.39825	0.39825	0.010	5.47003	50.00000	Averaged
76 Dimethylphthalate	1.16489	1.10539	1.10539	0.010	5.10755	50.00000	Averaged
78 2,6-Dinitrotoluene	0.25990	0.26517	0.26517	0.010	-2.02769	50.00000	Averaged
79 Acenaphthylene	1.66478	1.59054	1.59054	0.010	4.45934	50.00000	Averaged
80 1,2-Dinitrobenzene	0.12946	0.13445	0.13445	0.010	-3.85129	50.00000	Averaged
81 3-Nitroaniline	0.29070	0.30411	0.30411	0.010	-4.61335	50.00000	Averaged
82 Acenaphthene	1.07070	0.99538	0.99538	0.010	7.03486	20.00000	Averaged
83 2,4-Dinitrophenol	10.00000	8.88976	0.17307	0.050	11.10238	0.000e+000	Quadratic
85 4-Nitrophenol	0.14110	0.14693	0.14693	0.050	-4.13004	50.00000	Averaged
86 Dibenzofuran	1.43837	1.36341	1.36341	0.010	5.21131	50.00000	Averaged
87 2,4-Dinitrotoluene	0.35534	0.36330	0.36330	0.010	-2.23855	50.00000	Averaged
91 2,3,5,6-Tetrachlorophenol	0.26899	0.26577	0.26577	0.010	1.19790	50.00000	Averaged
93 Diethylphthalate	1.19394	1.12969	1.12969	0.010	5.38131	50.00000	Averaged
94 Fluorene	1.22227	1.15343	1.15343	0.010	5.63182	50.00000	Averaged
95 4-Chlorophenyl-phenylether	0.54442	0.52951	0.52951	0.010	2.73807	50.00000	Averaged
96 4-Nitroaniline	0.30486	0.32803	0.32803	0.010	-7.59880	50.00000	Averaged
98 4,6-Dinitro-2-methylphenol	5.00000	4.60252	0.11942	0.010	7.94952	0.000e+000	Quadratic
99 N-Nitrosodiphenylamine	0.53622	0.52818	0.52818	0.010	1.49984	20.00000	Averaged
100 1,2-Diphenylhydrazine	0.73220	0.69747	0.69747	0.010	4.74356	50.00000	Averaged
106 4-Bromophenyl-phenylether	0.19246	0.18531	0.18531	0.010	3.71393	50.00000	Averaged
107 Hexachlorobenzene	0.18923	0.17896	0.17896	0.010	5.43050	50.00000	Averaged
212 Atrazine	0.13354	0.13023	0.13023	0.010	2.47950	50.00000	Averaged
111 Pentachlorophenol	10.00000	9.21206	0.12690	0.010	7.87942	0.000e+000	Quadratic
115 Phenanthrene	1.08647	1.02066	1.02066	0.010	6.05653	50.00000	Averaged
116 Anthracene	1.09436	1.03499	1.03499	0.010	5.42543	50.00000	Averaged
119 Carbazole	1.02131	0.98670	0.98670	0.010	3.38855	50.00000	Averaged
120 Di-n-Butylphthalate	1.23953	1.19556	1.19556	0.010	3.54666	50.00000	Averaged
123 Fluoranthene	1.11335	1.06154	1.06154	0.010	4.65329	20.00000	Averaged
124 Benzidine	0.56868	0.50502	0.50502	0.010	11.19546	50.00000	Averaged
125 Pyrene	1.03108	0.98653	0.98653	0.010	4.32012	50.00000	Averaged
131 Butylbenzylphthalate	0.48210	0.46043	0.46043	0.010	4.49543	50.00000	Averaged
133 3,3'-Dimethoxybenzidine	0.20887	0.15556	0.15556	0.010	25.52284	50.00000	Averaged
135 3,3'-Dichlorobenzidine	0.36040	0.34927	0.34927	0.010	3.08939	50.00000	Averaged
136 Benzo(a)Anthracene	0.98989	0.94680	0.94680	0.010	4.35338	50.00000	Averaged
137 Chrysene	0.93409	0.89015	0.89015	0.010	4.70396	50.00000	Averaged
138 4,4'-Methylene bis(o-chloro	0.18888	0.17758	0.17758	0.010	5.98191	50.00000	Averaged
139 bis(2-ethylhexyl)Phthalate	0.68706	0.65947	0.65947	0.010	4.01662	50.00000	Averaged
140 Di-n-octylphthalate	1.25460	1.23000	1.23000	0.010	1.96104	20.00000	Averaged
141 Benzo(b)fluoranthene	1.02799	1.07437	1.07437	0.010	-4.51205	50.00000	Averaged

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 12-MAR-2010 09:31
Lab File ID: 7SMH0312.D Init. Cal. Date(s): 05-MAR-2010 05-MAR-2010
Analysis Type: Init. Cal. Times: 10:22 12:55
Lab Sample ID: 16 Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m

COMPOUND	RRF / AMOUNT	RF5	CCAL RRF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
142 Benzo(k)fluoranthene	1.09384	1.02410	1.02410	0.010	6.37509	50.00000	Averaged
146 Benzo(a)pyrene	0.98685	0.96341	0.96341	0.010	2.37605	20.00000	Averaged
149 Indeno(1,2,3-cd)pyrene	1.10283	1.07022	1.07022	0.010	2.95709	50.00000	Averaged
150 Dibenz(a,h)anthracene	0.92837	0.92231	0.92231	0.010	0.65324	50.00000	Averaged
151 Benzo(g,h,i)perylene	0.92024	0.89432	0.89432	0.010	2.81659	50.00000	Averaged
198 1,4-Dioxane	0.43061	0.39150	0.39150	0.010	9.08429	50.00000	Averaged
$ 154 Nitrobenzene-d5	0.30218	0.29141	0.29141	0.010	3.56360	50.00000	Averaged
$ 155 2-Fluorobiphenyl	1.15381	1.10104	1.10104	0.010	4.57294	50.00000	Averaged
$ 156 Terphenyl-d14	0.62828	0.61456	0.61456	0.010	2.18355	50.00000	Averaged
$ 157 Phenol-d5	1.49837	1.44377	1.44377	0.010	3.64417	50.00000	Averaged
$ 158 2-Fluorophenol	1.13412	1.04132	1.04132	0.010	8.18273	50.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.13497	0.13380	0.13380	0.010	0.87072	50.00000	Averaged
$ 186 2-Chlorophenol-d4	1.18447	1.14444	1.14444	0.010	3.37893	50.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	0.79918	0.76634	0.76634	0.010	4.10886	50.00000	Averaged
M 195 Cresols, total	2.38679	2.37329	2.37329	0.010	0.56573	50.00000	Averaged
101 Diphenylamine	0.53622	0.52818	0.52818	0.010	1.49984	50.00000	Averaged

Data File: \\ansvr11\dd\chem\MSS\a4hp7,i\00312a,b\7SMH0312.D
Date : 12-MAR-2010 09:31
Client ID:
Sample Info: 16,00312a,b,8270C-625,1-827042d,sub,2
Column phase: db5,625

Instrument: a4hp7,i
Operator: 001710
Column diameter: 0.32

\\ansvr11\dd\chem\MSS\a4hp7,i\00312a,b\7SMH0312.D

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Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\7SMH0312.D
Lab Smp Id: 16
Inj Date : 12-MAR-2010 09:31
Operator : 001710 Inst ID: a4hp7.i
Smp Info : 16,00312a.b,8270C-625,1-827042d.sub,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Meth Date : 12-Mar-2010 09:57 GruberJ Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.538	3.538	(1.000)	406631	2.00000	
* 2 Naphthalene-d8	136	4.431	4.431	(1.000)	1724183	2.00000	
* 3 Acenaphthene-d10	164	5.699	5.699	(1.000)	937660	2.00000	
* 4 Phenanthrene-d10	188	6.784	6.784	(1.000)	1520172	2.00000	
* 5 Chrysene-d12	240	8.747	8.747	(1.000)	1731041	2.00000	
* 6 Perylene-d12	264	10.207	10.207	(1.000)	1586026	2.00000	
9 Pyridine	79	1.928	1.928	(0.545)	1072217	5.00000	4.6201
10 N-Nitrosodimethylamine	74	1.901	1.901	(0.537)	664444	5.00000	4.9213
11 Ethyl methacrylate	69	2.131	2.131	(0.602)	964773	5.00000	4.7370
12 3-Chloropropionitrile	54	2.318	2.318	(0.655)	741042	5.00000	4.8064
13 Malononitrile	66	2.463	2.463	(0.696)	1513972	5.00000	5.0199
209 Benzaldehyde	77	3.249	3.249	(0.918)	792890	5.00000	4.8609
21 Aniline	93	3.313	3.313	(0.937)	1931494	5.00000	4.9139
22 Phenol	94	3.254	3.254	(0.920)	1582453	5.00000	4.9129
23 bis(2-Chloroethyl)ether	93	3.334	3.334	(0.943)	1416053	5.00000	5.2541
24 2-Chlorophenol	128	3.393	3.393	(0.959)	1255341	5.00000	4.8038
26 1,3-Dichlorobenzene	146	3.500	3.500	(0.989)	1267788	5.00000	4.7639
27 1,4-Dichlorobenzene	146	3.548	3.548	(1.003)	1252639	5.00000	4.7614
28 1,2-Dichlorobenzene	146	3.655	3.655	(1.033)	1201407	5.00000	4.7269
29 Benzyl Alcohol	108	3.613	3.613	(1.021)	811496	5.00000	4.7290
30 2-Methylphenol	108	3.666	3.666	(1.036)	1191330	5.00000	5.0281
31 bis(2-Chloroisopropyl)ether	45	3.693	3.693	(1.044)	1849714	5.00000	4.8576
37 Acetophenone	105	3.805	3.805	(1.076)	1686718	5.00000	4.8951
32 N-Nitroso-di-n-propylamine	70	3.794	3.794	(1.073)	879707	5.00000	4.7780
192 4-Methylphenol	108	3.773	3.773	(1.067)	1221299	5.00000	4.9179
34 Hexachloroethane	117	3.896	3.896	(1.101)	469594	5.00000	4.7755
35 Nitrobenzene	77	3.934	3.934	(0.888)	1241630	5.00000	4.8252
41 Isophorone	82	4.089	4.089	(0.923)	2465555	5.00000	4.7878
42 2-Nitrophenol	139	4.153	4.153	(0.937)	706968	5.00000	5.1326
43 2,4-Dimethylphenol	107	4.147	4.147	(0.936)	1227627	5.00000	4.7722
44 bis(2-Chloroethoxy)methane	93	4.217	4.217	(0.952)	1451150	5.00000	4.8420
46 2,4-Toluenediamene	121	5.255	5.255	(1.186)	589235	5.00000	3.7452
47 1,3,5-Trichlorobenzene	180	4.158	4.158	(0.938)	1060720	5.00000	4.7870

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
48	2,4-Dichlorophenol	162	4.313	4.313	(0.973)	970963	5.00000	4.8274
49	Benzoic Acid	122	4.228	4.228	(0.954)	1656610	10.0000	9.0309
50	1,2,4-Trichlorobenzene	180	4.383	4.383	(0.989)	1060527	5.00000	4.8355
51	Naphthalene	128	4.447	4.447	(1.004)	3815884	5.00000	4.7864
52	4-Chloroaniline	127	4.468	4.468	(1.008)	1588507	5.00000	4.6182
56	Hexachlorobutadiene	225	4.517	4.517	(1.019)	548256	5.00000	4.7949
210	Caprolactam	113	4.736	4.736	(1.069)	450136	5.00000	4.9356
57	1,2,3-Trichlorobenzene	180	4.543	4.543	(1.025)	1002672	5.00000	4.8389
59	4-Chloro-3-Methylphenol	107	4.789	4.789	(1.081)	1082073	5.00000	4.7773
62	2-Methylnaphthalene	142	4.939	4.939	(1.115)	2099677	5.00000	4.8378
63	1-Methylnaphthalene	142	5.014	5.014	(1.132)	2376157	5.00000	4.7612
64	Hexachlorocyclopentadiene	237	5.041	5.041	(0.885)	583732	5.00000	5.1605
66	2,4,6-Trichlorophenol	196	5.132	5.132	(0.901)	717884	5.00000	5.1399
67	2,4,5-Trichlorophenol	196	5.158	5.158	(0.905)	754751	5.00000	5.0310
211	1,1'-Biphenyl	154	5.271	5.271	(0.925)	3062262	5.00000	4.7886
68	1,2,3,5-Tetrachlorobenzene	216	5.046	5.046	(0.886)	1016255	5.00000	4.7574
70	2-Chloronaphthalene	162	5.297	5.297	(0.930)	2283524	5.00000	4.8071
73	2-Nitroaniline	65	5.356	5.356	(0.940)	692618	5.00000	4.9680
74	1,2,3,4-Tetrachlorobenzene	216	5.265	5.265	(0.924)	933549	5.00000	4.7265
76	Dimethylphthalate	163	5.469	5.469	(0.960)	2591203	5.00000	4.7446
78	2,6-Dinitrotoluene	165	5.522	5.522	(0.969)	621607	5.00000	5.1014
79	Acenaphthylene	152	5.602	5.602	(0.983)	3728458	5.00000	4.7770
80	1,2-Dinitrobenzene	168	5.570	5.570	(0.977)	315165	5.00000	5.1926
81	3-Nitroaniline	138	5.650	5.650	(0.992)	712870	5.00000	5.2307
82	Acenaphthene	153	5.725	5.725	(1.005)	2333321	5.00000	4.6482
83	2,4-Dinitrophenol	184	5.725	5.725	(1.005)	811418	10.0000	8.8898
85	4-Nitrophenol	109	5.747	5.747	(1.008)	344422	5.00000	5.2065
86	Dibenzofuran	168	5.848	5.848	(1.026)	3196035	5.00000	4.7394
87	2,4-Dinitrotoluene	165	5.816	5.816	(1.021)	851628	5.00000	5.1119
91	2,3,5,6-Tetrachlorophenol	232	5.891	5.891	(1.034)	623000	5.00000	4.9401
93	Diethylphthalate	149	5.971	5.971	(1.048)	2648165	5.00000	4.7309
94	Fluorene	166	6.100	6.100	(1.070)	2703817	5.00000	4.7184
95	4-Chlorophenyl-phenylether	204	6.078	6.078	(1.067)	1241260	5.00000	4.8631
96	4-Nitroaniline	138	6.100	6.100	(1.070)	768950	5.00000	5.3799
98	4,6-Dinitro-2-methylphenol	198	6.116	6.116	(0.901)	453858	5.00000	4.6025
99	N-Nitrosodiphenylamine	169	6.164	6.164	(0.909)	2007308	5.00000	4.9250
100	1,2-Diphenylhydrazine	77	6.196	6.196	(0.913)	2650691	5.00000	4.7628
106	4-Bromophenyl-phenylether	248	6.437	6.437	(0.949)	704268	5.00000	4.8143
107	Hexachlorobenzene	284	6.496	6.496	(0.957)	680113	5.00000	4.7285
212	Atrazine	200	6.528	6.528	(0.962)	494920	5.00000	4.8760
111	Pentachlorophenol	266	6.635	6.635	(0.978)	964566	10.0000	9.2120
115	Phenanthrene	178	6.806	6.806	(1.003)	3878960	5.00000	4.6972
116	Anthracene	178	6.843	6.843	(1.009)	3933390	5.00000	4.7287
119	Carbazole	167	6.945	6.945	(1.024)	3749900	5.00000	4.8306
120	Di-n-Butylphthalate	149	7.153	7.153	(1.054)	4543661	5.00000	4.8227
123	Fluoranthene	202	7.672	7.672	(1.131)	4034317	5.00000	4.7673
124	Benzidine	184	7.747	7.747	(0.886)	2185513	5.00000	4.4402
125	Pyrene	202	7.849	7.849	(0.897)	4269323	5.00000	4.7840
131	Butylbenzylphthalate	149	8.255	8.255	(0.944)	1992554	5.00000	4.7752
133	3,3'-Dimethoxybenzidine	244	8.651	8.651	(0.989)	673210	5.00000	3.7238
135	3,3'-Dichlorobenzidine	252	8.688	8.688	(0.993)	1511496	5.00000	4.8455
136	Benzo(a)Anthracene	228	8.737	8.737	(0.999)	4097376	5.00000	4.7823
137	Chrysene	228	8.769	8.769	(1.002)	3852211	5.00000	4.7648
138	4,4'-Methylene bis(o-chloroan	231	8.688	8.688	(0.993)	768487	5.00000	4.7009

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.662	8.662	(0.990)	2853907	5.00000	4.7992
140 Di-n-octylphthalate	149	9.223	9.223	(0.904)	4877023	5.00000	4.9019
141 Benzo(b)fluoranthene	252	9.753	9.753	(0.955)	4259950	5.00000	5.2256
142 Benzo(k)fluoranthene	252	9.785	9.785	(0.959)	4060641	5.00000	4.6812
146 Benzo(a)pyrene	252	10.143	10.143	(0.994)	3819964	5.00000	4.8812
149 Indeno(1,2,3-cd)pyrene	276	11.812	11.812	(1.157)	4243502	5.00000	4.8521
150 Dibenz(a,h)anthracene	278	11.828	11.828	(1.159)	3657013	5.00000	4.9673
151 Benzo(g,h,i)perylene	276	12.304	12.304	(1.205)	3546047	5.00000	4.8592
198 1,4-Dioxane	88	1.725	1.725	(0.488)	397986	5.00000	4.5458
$ 154 Nitrobenzene-d5	82	3.917	3.917	(0.884)	1256113	5.00000	4.8218
$ 155 2-Fluorobiphenyl	172	5.190	5.190	(0.911)	2581013	5.00000	4.7714
$ 156 Terphenyl-d14	244	7.924	7.924	(0.906)	2659582	5.00000	4.8908
$ 157 Phenol-d5	99	3.244	3.244	(0.917)	1467705	5.00000	4.8178
$ 158 2-Fluorophenol	112	2.661	2.661	(0.752)	1058579	5.00000	4.5909
$ 159 2,4,6-Tribromophenol	330	6.271	6.271	(1.100)	313639	5.00000	4.9565
$ 186 2-Chlorophenol-d4	132	3.383	3.383	(0.956)	1163417	5.00000	4.8310
$ 187 1,2-Dichlorobenzene-d4	152	3.645	3.645	(1.030)	779049	5.00000	4.7946
M 195 Cresols, total	100				2412629	5.00000	9.9460
101 Diphenylamine	169	6.164	6.164	(0.909)	2007308	5.00000	4.9250

TestAmerica North Canton

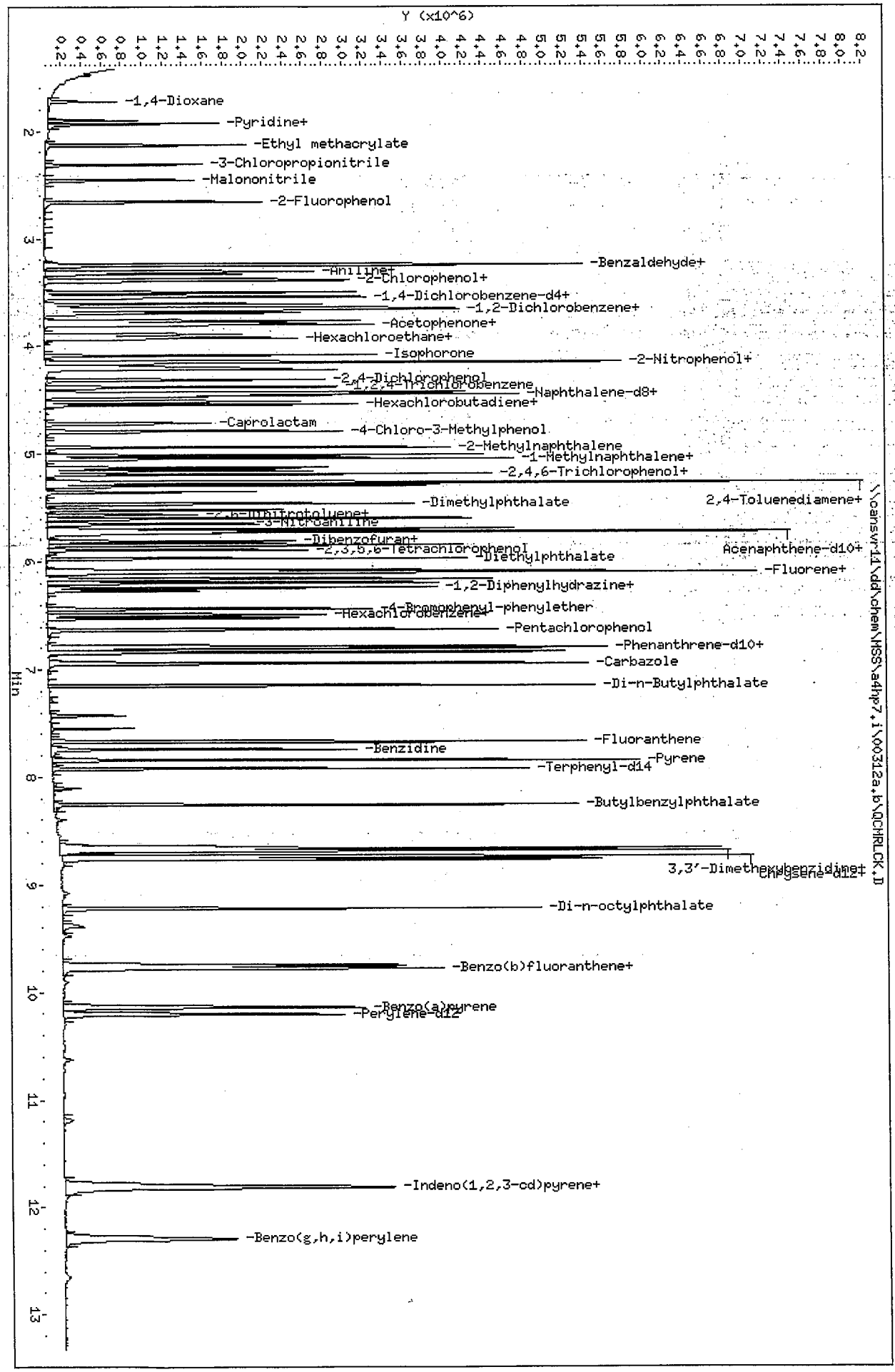
RECOVERY REPORT

OKMC 3/17/10

Client Name: Client SDG: SDGa00278
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: qcmrlck
Level: LOW Operator: 001710
Data Type: MS DATA SampleType: mrl
SpikeList File: qcmrl.spk Quant Type: ISTD
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270c-625.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82 Acenaphthene	10.000	9.6424	96.42	70-130
79 Acenaphthylene	10.000	9.8656	98.66	70-130
116 Anthracene	10.000	9.8727	98.73	70-130
136 Benzo(a)Anthracene	10.000	9.7536	97.54	70-130
141 Benzo(b)fluoranthe	10.000	10.872	108.72	70-130
151 Benzo(g,h,i)peryle	10.000	9.9593	99.59	70-130
146 Benzo(a)pyrene	10.000	10.074	100.74	70-130
29 Benzyl Alcohol	10.000	9.6446	96.45	70-130
44 bis(2-Chloroethoxy	10.000	9.8976	98.98	70-130
23 bis(2-Chloroethyl)	10.000	9.8178	98.18	70-130
31 bis(2-Chloroisopro	10.000	9.9105	99.10	70-130
139 bis(2-ethylhexyl)P	10.000	9.9804	99.80	70-130
106 4-Bromophenyl-phen	10.000	10.024	100.24	70-130
131 Butylbenzylphthala	10.000	9.9096	99.10	70-130
52 4-Chloroaniline	10.000	10.058	100.58	70-130
70 2-Chloronaphthalen	10.000	9.8765	98.76	70-130
95 4-Chlorophenyl-phe	10.000	9.9270	99.27	70-130
137 Chrysene	10.000	10.271	102.71	70-130
150 Dibenz(a,h)anthrac	10.000	10.299	102.99	70-130
86 Dibenzofuran	10.000	9.7317	97.32	70-130
120 Di-n-Butylphthalat	10.000	10.252	102.52	70-130
28 1,2-Dichlorobenzen	10.000	9.9198	99.20	70-130
26 1,3-Dichlorobenzen	10.000	9.9190	99.19	70-130
27 1,4-Dichlorobenzen	10.000	9.7450	97.45	70-130
135 3,3'-Dichlorobenzi	10.000	9.9398	99.40	70-130
93 Diethylphthalate	10.000	9.8282	98.28	70-130
76 Dimethylphthalate	10.000	9.8260	98.26	70-130
87 2,4-Dinitrotoluene	10.000	10.451	104.51	70-130
78 2,6-Dinitrotoluene	10.000	10.530	105.30	70-130
140 Di-n-octylphthalat	10.000	10.186	101.86	70-130
123 Fluoranthene	10.000	9.9474	99.47	70-130
94 Fluorene	10.000	9.7352	97.35	70-130
107 Hexachlorobenzene	10.000	9.8607	98.61	70-130
56 Hexachlorobutadien	10.000	10.108	101.08	70-130
64 Hexachlorocyclopen	10.000	10.778	107.78	70-130
34 Hexachloroethane	10.000	9.7475	97.48	70-130
149 Indeno(1,2,3-cd)py	10.000	10.092	100.92	70-130
41 Isophorone	10.000	9.8223	98.22	70-130
63 1-Methylnaphthalen	10.000	9.7470	97.47	70-130
62 2-Methylnaphthalen	10.000	9.8742	98.74	70-130

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51	Naphthalene	10.000	9.9157	99.16	70-130
73	2-Nitroaniline	10.000	10.315	103.15	70-130
81	3-Nitroaniline	10.000	10.580	105.80	70-130
96	4-Nitroaniline	10.000	11.080	110.80	70-130
35	Nitrobenzene	10.000	9.9513	99.51	70-130
32	N-Nitroso-di-n-pro	10.000	9.6948	96.95	70-130
99	N-Nitrosodiphenyla	10.000	10.287	102.87	70-130
115	Phenanthrene	10.000	9.8428	98.43	70-130
125	Pyrene	10.000	10.035	100.35	70-130
50	1,2,4-Trichloroben	10.000	10.068	100.68	70-130
49	Benzoic Acid	20.000	18.751	93.75	70-130
59	4-Chloro-3-Methylp	10.000	9.7868	97.87	70-130
24	2-Chlorophenol	10.000	9.9748	99.75	70-130
48	2,4-Dichlorophenol	10.000	9.8125	98.13	70-130
43	2,4-Dimethylphenol	10.000	9.7582	97.58	70-130
98	4,6-Dinitro-2-meth	10.000	9.9471	99.47	70-130
83	2,4-Dinitrophenol	20.000	18.764	93.82	70-130
30	2-Methylphenol	10.000	10.337	103.37	70-130
192	4-Methylphenol	10.000	10.103	101.03	70-130
42	2-Nitrophenol	10.000	10.606	106.06	70-130
85	4-Nitrophenol	10.000	10.609	106.09	70-130
111	Pentachlorophenol	20.000	18.013	90.07	70-130
22	Phenol	10.000	10.003	100.03	70-130
67	2,4,5-Trichlorophe	10.000	10.209	102.09	70-130
66	2,4,6-Trichlorophe	10.000	10.209	102.09	70-130
119	Carbazole	10.000	10.143	101.43	70-130
142	Benzo(k)fluoranthe	10.000	9.6947	96.95	70-130
37	Acetophenone	10.000	9.9545	99.54	70-130
209	Benzaldehyde	10.000	10.569	105.69	70-130
210	Caprolactam	10.000	10.139	101.39	70-130
211	1,1'-Biphenyl	10.000	9.8756	98.76	70-130
212	Atrazine	10.000	10.509	105.09	70-130
21	Aniline	10.000	10.720	107.20	70-130
10	N-Nitrosodimethyla	10.000	9.9944	99.94	70-130
80	1,2-Dinitrobenzene	10.000	10.654	106.55	70-130
91	2,3,5,6-Tetrachlor	10.000	9.8948	98.95	70-130



Data File: \\cansvr11\dd\chem\MSS\a4hp7,i\00312a,b\QCHRLCK.D
Date : 12-MAR-2010 09:52
Client ID:
Sample Info: qcmrlck,00312a,b,8270c-625,1-827042d,sub
Volume Injected (uL): 0.5
Column phase: db5.625

Instrument: a4hp7,i
Operator: 001710
Column diameter: 0.32

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\QCMRLCK.D
Lab Smp Id: qcmrlck
Inj Date : 12-MAR-2010 09:52
Operator : 001710 Inst ID: a4hp7.i
Smp Info : qcmrlck,00312a.b,8270c-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270c-625.m
Meth Date : 12-Mar-2010 09:57 GruberJ Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 3 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.538	3.538	(1.000)	387995	2.00000	
* 2 Naphthalene-d8	136	4.431	4.431	(1.000)	1631684	2.00000	
* 3 Acenaphthene-d10	164	5.699	5.699	(1.000)	877813	2.00000	
* 4 Phenanthrene-d10	188	6.784	6.784	(1.000)	1398043	2.00000	
* 5 Chrysene-d12	240	8.742	8.747	(1.000)	1605734	2.00000	
* 6 Perylene-d12	264	10.202	10.207	(1.000)	1451955	2.00000	
9 Pyridine	79	1.928	1.928	(0.545)	534052	2.41171	9.6468
10 N-Nitrosodimethylamine	74	1.896	1.901	(0.536)	321884	2.49860	9.9944
11 Ethyl methacrylate	69	2.131	2.131	(0.602)	453176	2.33193	9.3277
12 3-Chloropropionitrile	54	2.313	2.318	(0.654)	363264	2.46930	9.8772
13 Malononitrile	66	2.457	2.463	(0.695)	738697	2.56697	10.268
209 Benzaldehyde	77	3.249	3.249	(0.918)	411245	2.64226	10.569
21 Aniline	93	3.313	3.313	(0.937)	1005146	2.68001	10.720
22 Phenol	94	3.249	3.254	(0.918)	768595	2.50081	10.003
23 bis(2-Chloroethyl)ether	93	3.335	3.334	(0.943)	631193	2.45444	9.8178
24 2-Chlorophenol	128	3.393	3.393	(0.959)	621797	2.49371	9.9748
26 1,3-Dichlorobenzene	146	3.500	3.500	(0.989)	629679	2.47975	9.9190
27 1,4-Dichlorobenzene	146	3.549	3.548	(1.003)	611568	2.43626	9.7450
28 1,2-Dichlorobenzene	146	3.655	3.655	(1.033)	601428	2.47994	9.9198
29 Benzyl Alcohol	108	3.607	3.613	(1.020)	394793	2.41116	9.6446

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
30	2-Methylphenol	108	3.666	3.666	(1.036)	584250	2.58430	10.337
31	bis(2-Chloroisopropyl)ether	45	3.693	3.693	(1.044)	900211	2.47762	9.9105
37	Acetophenone	105	3.800	3.805	(1.074)	818206	2.48862	9.9545
32	N-Nitroso-di-n-propylamine	70	3.789	3.794	(1.071)	425793	2.42371	9.6948
192	4-Methylphenol	108	3.768	3.773	(1.065)	598491	2.52576	10.103
34	Hexachloroethane	117	3.891	3.896	(1.100)	228648	2.43688	9.7475
35	Nitrobenzene	77	3.928	3.934	(0.887)	605833	2.48784	9.9513
41	Isophorone	82	4.089	4.089	(0.923)	1196706	2.45557	9.8223
42	2-Nitrophenol	139	4.148	4.153	(0.936)	345614	2.65140	10.606
43	2,4-Dimethylphenol	107	4.148	4.147	(0.936)	593894	2.43955	9.7582
44	bis(2-Chloroethoxy)methane	93	4.217	4.217	(0.952)	701785	2.47439	9.8976
46	2,4-Toluenediamene	121	5.249	5.255	(1.185)	237814	1.59723	6.3889
47	1,3,5-Trichlorobenzene	180	4.158	4.158	(0.938)	525515	2.50606	10.024
48	2,4-Dichlorophenol	162	4.313	4.313	(0.973)	466944	2.45313	9.8125
49	Benzoic Acid	122	4.206	4.228	(0.949)	743847	4.68766	18.751
50	1,2,4-Trichlorobenzene	180	4.383	4.383	(0.989)	522424	2.51703	10.068
51	Naphthalene	128	4.447	4.447	(1.004)	1870256	2.47893	9.9157
52	4-Chloroaniline	127	4.463	4.468	(1.007)	818483	2.51445	10.058
56	Hexachlorobutadiene	225	4.517	4.517	(1.019)	273447	2.52706	10.108
210	Caprolactam	113	4.720	4.736	(1.065)	218762	2.53466	10.139
57	1,2,3-Trichlorobenzene	180	4.543	4.543	(1.025)	489082	2.49413	9.9765
59	4-Chloro-3-Methylphenol	107	4.789	4.789	(1.081)	524452	2.44670	9.7868
62	2-Methylnaphthalene	142	4.939	4.939	(1.115)	1013904	2.46854	9.8742
63	1-Methylnaphthalene	142	5.014	5.014	(1.132)	1150847	2.43674	9.7470
64	Hexachlorocyclopentadiene	237	5.041	5.041	(0.885)	272161	2.69440	10.778
66	2,4,6-Trichlorophenol	196	5.126	5.132	(0.900)	333718	2.55224	10.209
67	2,4,5-Trichlorophenol	196	5.158	5.158	(0.905)	358439	2.55217	10.209
211	1,1'-Biphenyl	154	5.265	5.271	(0.924)	1478073	2.46890	9.8756
68	1,2,3,5-Tetrachlorobenzene	216	5.046	5.046	(0.886)	492128	2.46088	9.8435
70	2-Chloronaphthalene	162	5.298	5.297	(0.930)	1098038	2.46912	9.8765
73	2-Nitroaniline	65	5.351	5.356	(0.939)	336565	2.57872	10.315
74	1,2,3,4-Tetrachlorobenzene	216	5.265	5.265	(0.924)	452221	2.44566	9.7826
76	Dimethylphthalate	163	5.463	5.469	(0.959)	1255946	2.45649	9.8260
78	2,6-Dinitrotoluene	165	5.517	5.522	(0.968)	300310	2.63260	10.530
79	Acenaphthylene	152	5.602	5.602	(0.983)	1802159	2.46641	9.8656
80	1,2-Dinitrobenzene	168	5.565	5.570	(0.977)	151352	2.66364	10.654
81	3-Nitroaniline	138	5.651	5.650	(0.992)	337482	2.64509	10.580
82	Acenaphthene	153	5.725	5.725	(1.005)	1132833	2.41060	9.6424
83	2,4-Dinitrophenol	184	5.720	5.725	(1.004)	361223	4.69112	18.764(Q)
85	4-Nitrophenol	109	5.741	5.747	(1.008)	164257	2.65230	10.609
86	Dibenzofuran	168	5.848	5.848	(1.026)	1535923	2.43292	9.7317
87	2,4-Dinitrotoluene	165	5.811	5.816	(1.020)	407499	2.61279	10.451
91	2,3,5,6-Tetrachlorophenol	232	5.891	5.891	(1.034)	292048	2.47369	9.8948
93	Diethylphthalate	149	5.971	5.971	(1.048)	1287563	2.45705	9.8282
94	Fluorene	166	6.094	6.100	(1.069)	1305647	2.43381	9.7352
95	4-Chlorophenyl-phenylether	204	6.078	6.078	(1.067)	593015	2.48176	9.9270
96	4-Nitroaniline	138	6.094	6.100	(1.069)	370645	2.77001	11.080
98	4,6-Dinitro-2-methylphenol	198	6.111	6.116	(0.901)	207314	2.48678	9.9471
99	N-Nitrosodiphenylamine	169	6.159	6.164	(0.908)	964002	2.57183	10.287
100	1,2-Diphenylhydrazine	77	6.196	6.196	(0.913)	1277945	2.49683	9.9873
106	4-Bromophenyl-phenylether	248	6.437	6.437	(0.949)	337146	2.50603	10.024
107	Hexachlorobenzene	284	6.496	6.496	(0.957)	326089	2.46518	9.8607
212	Atrazine	200	6.528	6.528	(0.962)	245239	2.62720	10.509
111	Pentachlorophenol	266	6.629	6.635	(0.977)	418265	4.50327	18.013

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
115	Phenanthrene	178	6.800	6.806	(1.002)	1868817	2.46071	9.8428
116	Anthracene	178	6.838	6.843	(1.008)	1888100	2.46817	9.8727
119	Carbazole	167	6.945	6.945	(1.024)	1810309	2.53573	10.143
120	Di-n-Butylphthalate	149	7.148	7.153	(1.054)	2220715	2.56299	10.252
123	Fluoranthene	202	7.672	7.672	(1.131)	1935415	2.48686	9.9474
124	Benzidine	184	7.742	7.747	(0.886)	1054293	2.30912	9.2365
125	Pyrene	202	7.843	7.849	(0.897)	2076717	2.50866	10.035
131	Butylbenzylphthalate	149	8.255	8.255	(0.944)	958913	2.47741	9.9096
133	3,3'-Dimethoxybenzidine	244	8.646	8.651	(0.989)	364250	2.17208	8.6883
135	3,3'-Dichlorobenzidine	252	8.683	8.688	(0.993)	719034	2.48495	9.9398
136	Benzo(a)Anthracene	228	8.731	8.737	(0.999)	1937926	2.43840	9.7536
137	Chrysene	228	8.763	8.769	(1.002)	1925754	2.56785	10.271
138	4,4'-Methylene bis(o-chloroan	231	8.683	8.688	(0.993)	363628	2.39793	9.5917
139	bis(2-ethylhexyl)Phthalate	149	8.662	8.662	(0.991)	1376354	2.49511	9.9804
140	Di-n-octylphthalate	149	9.218	9.223	(0.904)	2319463	2.54659	10.186
141	Benzo(b)fluoranthene	252	9.748	9.753	(0.955)	2028412	2.71797	10.872
142	Benzo(k)fluoranthene	252	9.774	9.785	(0.958)	1924646	2.42368	9.6947
146	Benzo(a)pyrene	252	10.138	10.143	(0.994)	1804349	2.51852	10.074
149	Indeno(1,2,3-cd)pyrene	276	11.801	11.812	(1.157)	2019976	2.52297	10.092
150	Dibenz(a,h)anthracene	278	11.812	11.828	(1.158)	1735265	2.57466	10.299
151	Benzo(g,h,i)perylene	276	12.294	12.304	(1.205)	1663398	2.48984	9.9593
198	1,4-Dioxane	88	1.725	1.725	(0.488)	190271	2.27766	9.1106
101	Diphenylamine	169	6.159	6.164	(0.908)	964002	2.57183	10.287

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

RECOVERY REPORT

OKmw 3/17/10

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: qcmrlcl
Level: LOW
Data Type: MS DATA
SpikeList File: qcmrl.spk
Sublist File: qcmrl.sub
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270c-625.m
Misc Info:

Client SDG: SDGa00278
Fraction: SV

Operator: 001710
SampleType: mrl
Quant Type: ISTD

Fails for:
Hexachlorocyclopentadiene
Benzoic Acid, Pentachlorophenol
4,6-Dinitro-2-Methylphenol
2,4-Dinitrophenol

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
82 Acenaphthene	10.000	9.8355	98.36	70-130
79 Acenaphthylene	10.000	10.030	100.30	70-130
116 Anthracene	10.000	10.038	100.39	70-130
136 Benzo(a)Anthracene	10.000	10.246	102.46	70-130
141 Benzo(b)fluoranthe	10.000	9.9316	99.32	70-130
151 Benzo(g,h,i)peryle	10.000	9.6381	96.38	70-130
146 Benzo(a)pyrene	10.000	9.9320	99.32	70-130
29 Benzyl Alcohol	10.000	9.3456	93.46	70-130
44 bis(2-Chloroethoxy	10.000	9.9998	100.00	70-130
23 bis(2-Chloroethyl)	10.000	11.824	118.25	70-130
31 bis(2-Chloroisopro	10.000	9.8773	98.77	70-130
139 bis(2-ethylhexyl)P	10.000	10.709	107.09	70-130
106 4-Bromophenyl-phen	10.000	9.7758	97.76	70-130
131 Butylbenzylphthala	10.000	10.391	103.91	70-130
52 4-Chloroaniline	10.000	9.7859	97.86	70-130
70 2-Chloronaphthalen	10.000	9.8348	98.35	70-130
95 4-Chlorophenyl-phe	10.000	10.107	101.07	70-130
137 Chrysene	10.000	10.357	103.57	70-130
150 Dibenz(a,h)anthrac	10.000	10.247	102.47	70-130
86 Dibenzofuran	10.000	10.023	100.23	70-130
120 Di-n-Butylphthalat	10.000	10.431	104.31	70-130
28 1,2-Dichlorobenzen	10.000	9.8488	98.49	70-130
26 1,3-Dichlorobenzen	10.000	9.9803	99.80	70-130
27 1,4-Dichlorobenzen	10.000	9.9596	99.60	70-130
135 3,3'-Dichlorobenzi	10.000	10.054	100.54	70-130
93 Diethylphthalate	10.000	9.9808	99.81	70-130
76 Dimethylphthalate	10.000	10.113	101.13	70-130
87 2,4-Dinitrotoluene	10.000	10.192	101.92	70-130
78 2,6-Dinitrotoluene	10.000	10.321	103.21	70-130
140 Di-n-octylphthalat	10.000	10.731	107.31	70-130
123 Fluoranthene	10.000	10.043	100.43	70-130
94 Fluorene	10.000	9.8712	98.71	70-130
107 Hexachlorobenzene	10.000	9.8482	98.48	70-130
56 Hexachlorobutadien	10.000	10.409	104.09	70-130
64 Hexachlorocyclopen	10.000	1.9745	19.75*	70-130
34 Hexachloroethane	10.000	7.6832	76.83	70-130
149 Indeno(1,2,3-cd)py	10.000	9.9915	99.92	70-130
41 Isophorone	10.000	9.7164	97.16	70-130
63 1-Methylnaphthalen	10.000	9.8304	98.30	70-130
62 2-Methylnaphthalen	10.000	9.9049	99.05	70-130

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51	Naphthalene	10.000	10.048	100.48	70-130
73	2-Nitroaniline	10.000	10.210	102.11	70-130
81	3-Nitroaniline	10.000	10.268	102.68	70-130
96	4-Nitroaniline	10.000	10.250	102.50	70-130
35	Nitrobenzene	10.000	9.7698	97.70	70-130
32	N-Nitroso-di-n-pro	10.000	9.4986	94.99	70-130
99	N-Nitrosodiphenyla	10.000	10.122	101.22	70-130
115	Phenanthrene	10.000	9.7581	97.58	70-130
125	Pyrene	10.000	9.9025	99.02	70-130
50	1,2,4-Trichloroben	10.000	10.346	103.46	70-130
49	Benzoic Acid	20.000	8.1845	40.92*	70-130
59	4-Chloro-3-Methylp	10.000	9.9383	99.38	70-130
24	2-Chlorophenol	10.000	9.8652	98.65	70-130
48	2,4-Dichlorophenol	10.000	9.7998	98.00	70-130
43	2,4-Dimethylphenol	10.000	9.7737	97.74	70-130
98	4,6-Dinitro-2-meth	10.000	5.4531	54.53*	70-130
83	2,4-Dinitrophenol	20.000	7.6254	38.13*	70-130
30	2-Methylphenol	10.000	10.014	100.14	70-130
192	4-Methylphenol	10.000	9.6427	96.43	70-130
42	2-Nitrophenol	10.000	9.8096	98.10	70-130
85	4-Nitrophenol	10.000	7.6848	76.85	70-130
111	Pentachlorophenol	20.000	12.374	61.87*	70-130
22	Phenol	10.000	9.6488	96.49	70-130
67	2,4,5-Trichlorophe	10.000	10.587	105.87	70-130
66	2,4,6-Trichlorophe	10.000	9.7829	97.83	70-130
119	Carbazole	10.000	9.8661	98.66	70-130
142	Benzo(k)fluoranthe	10.000	10.566	105.66	70-130
37	Acetophenone	10.000	9.7042	97.04	70-130
209	Benzaldehyde	10.000	10.446	104.46	70-130
210	Caprolactam	10.000	9.4865	94.87	70-130
211	1,1'-Biphenyl	10.000	9.7875	97.88	70-130
212	Atrazine	10.000	10.381	103.81	70-130
21	Aniline	10.000	9.0854	90.85	70-130
10	N-Nitrosodimethyla	10.000	9.1830	91.83	70-130
80	1,2-Dinitrobenzene	10.000	10.116	101.16	70-130
91	2,3,5,6-Tetrachlor	10.000	9.3870	93.87	70-130

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\QCHRLCL.D
Date : 12-MAR-2010 15:38
Client ID:
Sample Info: qcmrlcl,00312a,b,8270c-625,1-8270420,sub
Volume Injected (uL): 0.5
Column phase: db5.625
Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32
Page 1
Y (x10^6)
Min
-1,4-Dioxane
-Pyridine+
-Ethyl methacrylate
-3-Chloropropionitrile
-Malononitrile
-2-Fluorophenol
-Benzaldehyde+
-Aniline+
-2-Chlorophenol+
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-bis(2-Chloroethoxy)methan+
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Naphthalene-d8+
-Hexachlorobutadiene+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-2-Nitroaniline
-Dimethylphthalate
2,4-Toluenediamene+
-2,6-Dinitrotoluene+
-Acenaphthene-d10+
-Dibenzofuran+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
-Phenanthrene-d10+
-Anthracene
-Carbazole
-Di-n-Butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
3,3'-Dimethoxybenzidine+
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Perylene-d12+
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\QCHRLCL.D

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\QCMRLCL.D
Lab Smp Id: qcmrlcl
Inj Date : 12-MAR-2010 15:38
Operator : 001710 Inst ID: a4hp7.i
Smp Info : qcmrlcl,00312a.b,8270c-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270c-625.m
Meth Date : 12-Mar-2010 13:03 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 3 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	0.50000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.538	3.538	(1.000)	279106	2.00000	
* 2 Naphthalene-d8	136	4.436	4.431	(1.000)	1161450	2.00000	
* 3 Acenaphthene-d10	164	5.704	5.699	(1.000)	638878	2.00000	
* 4 Phenanthrene-d10	188	6.790	6.784	(1.000)	1061351	2.00000	
* 5 Chrysene-d12	240	8.758	8.747	(1.000)	1230237	2.00000	
* 6 Perylene-d12	264	10.223	10.207	(1.000)	1141544	2.00000	
9 Pyridine	79	1.933	1.928	(0.546)	390237	2.44978	9.7991
10 N-Nitrosodimethylamine	74	1.896	1.901	(0.536)	212750	2.29575	9.1830
11 Ethyl methacrylate	69	2.126	2.131	(0.601)	352457	2.52122	10.085
12 3-Chloropropionitrile	54	2.313	2.318	(0.654)	255265	2.41212	9.6485
13 Malononitrile	66	2.457	2.463	(0.695)	491886	2.37616	9.5046
209 Benzaldehyde	77	3.249	3.249	(0.918)	292394	2.61156	10.446
21 Aniline	93	3.313	3.313	(0.937)	612798	2.27134	9.0854
22 Phenol	94	3.254	3.254	(0.920)	533301	2.41219	9.6488
23 bis(2-Chloroethyl)ether	93	3.334	3.334	(0.943)	546861	2.95614	11.824
24 2-Chlorophenol	128	3.399	3.393	(0.961)	442377	2.46631	9.8652
26 1,3-Dichlorobenzene	146	3.500	3.500	(0.989)	455763	2.49508	9.9803
27 1,4-Dichlorobenzene	146	3.548	3.548	(1.003)	449622	2.48991	9.9596
28 1,2-Dichlorobenzene	146	3.655	3.655	(1.033)	429544	2.46220	9.8488
29 Benzyl Alcohol	108	3.613	3.613	(1.021)	275190	2.33639	9.3456
30 2-Methylphenol	108	3.671	3.666	(1.038)	407123	2.50338	10.014

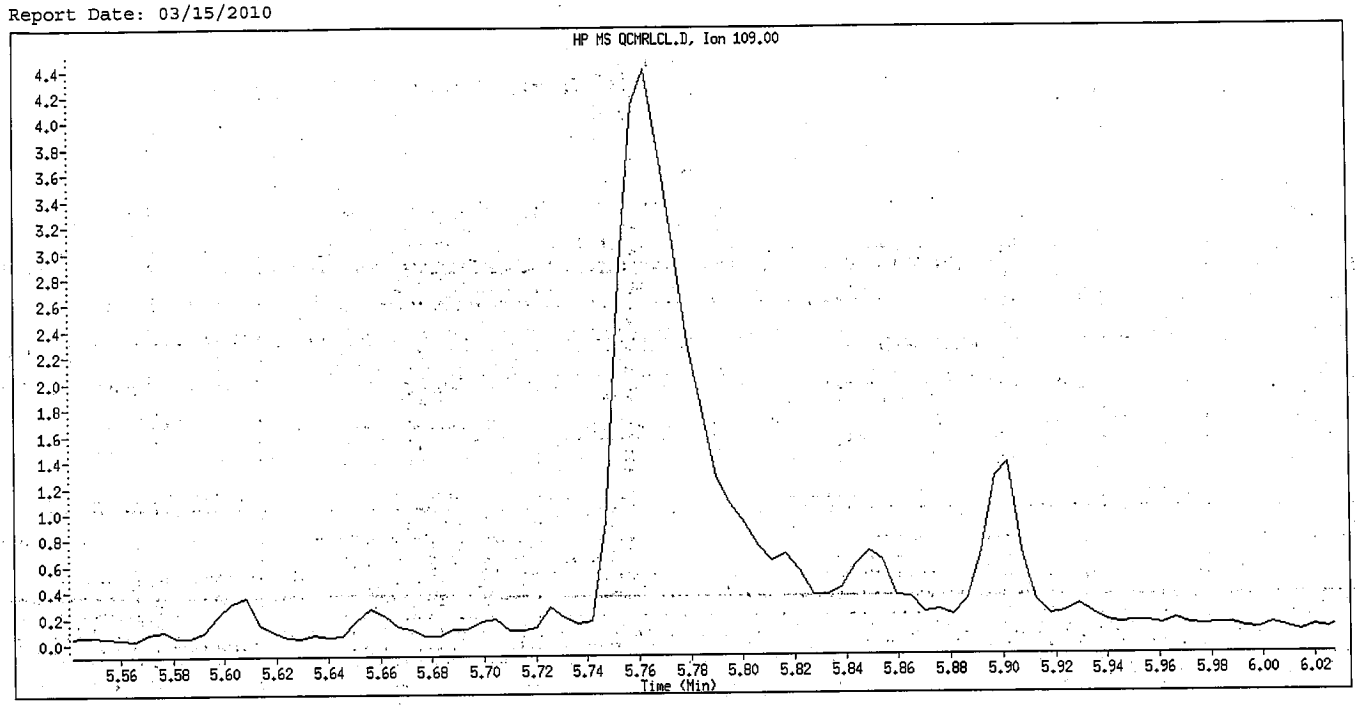
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
31	bis(2-Chloroisopropyl)ether	45	3.698	3.693	(1.045)	645400	2.46932	9.8773
37	Acetophenone	105	3.805	3.805	(1.076)	573779	2.42604	9.7042
32	N-Nitroso-di-n-propylamine	70	3.789	3.794	(1.071)	300096	2.37464	9.4986
192	4-Methylphenol	108	3.773	3.773	(1.067)	410911	2.41068	9.6427
34	Hexachloroethane	117	3.896	3.896	(1.101)	129646	1.92081	7.6832
35	Nitrobenzene	77	3.933	3.934	(0.887)	423373	2.44246	9.7698
41	Isophorone	82	4.089	4.089	(0.922)	842647	2.42910	9.7164
42	2-Nitrophenol	139	4.153	4.153	(0.936)	227548	2.45241	9.8096
43	2,4-Dimethylphenol	107	4.153	4.147	(0.936)	423410	2.44342	9.7737
44	bis(2-Chloroethoxy)methane	93	4.222	4.217	(0.952)	504696	2.49994	9.9998
46	2,4-Toluenediamene	121	5.260	5.255	(1.186)	221989	2.09458	8.3783
47	1,3,5-Trichlorobenzene	180	4.158	4.158	(0.937)	379534	2.54269	10.171
48	2,4-Dichlorophenol	162	4.319	4.313	(0.973)	331944	2.44994	9.7998
49	Benzoic Acid	122	4.196	4.228	(0.946)	188780	2.04612	8.1845(R)
50	1,2,4-Trichlorobenzene	180	4.383	4.383	(0.988)	382119	2.58642	10.346
51	Naphthalene	128	4.452	4.447	(1.004)	1349075	2.51209	10.048
52	4-Chloroaniline	127	4.474	4.468	(1.008)	566858	2.44648	9.7859
56	Hexachlorobutadiene	225	4.516	4.517	(1.018)	200436	2.60227	10.409
210	Caprolactam	113	4.725	4.736	(1.065)	145701	2.37163	9.4865
57	1,2,3-Trichlorobenzene	180	4.549	4.543	(1.025)	349123	2.50121	10.005
59	4-Chloro-3-Methylphenol	107	4.800	4.789	(1.082)	379092	2.48459	9.9383
62	2-Methylnaphthalene	142	4.944	4.939	(1.115)	723954	2.47623	9.9049
63	1-Methylnaphthalene	142	5.014	5.014	(1.130)	826201	2.45761	9.8304
64	Hexachlorocyclopentadiene	237	5.046	5.041	(0.885)	28699	0.49363	1.9745(R)
66	2,4,6-Trichlorophenol	196	5.137	5.132	(0.901)	232746	2.44573	9.7829
67	2,4,5-Trichlorophenol	196	5.169	5.158	(0.906)	270532	2.64665	10.587
211	1,1'-Biphenyl	154	5.271	5.271	(0.924)	1066157	2.44688	9.7875
68	1,2,3,5-Tetrachlorobenzene	216	5.051	5.046	(0.886)	361950	2.48682	9.9473
70	2-Chloronaphthalene	162	5.297	5.297	(0.929)	795790	2.45871	9.8348
73	2-Nitroaniline	65	5.362	5.356	(0.940)	242476	2.55263	10.210
74	1,2,3,4-Tetrachlorobenzene	216	5.271	5.265	(0.924)	329247	2.44654	9.7861
76	Dimethylphthalate	163	5.468	5.469	(0.959)	940801	2.52828	10.113
78	2,6-Dinitrotoluene	165	5.522	5.522	(0.968)	214222	2.58026	10.321
79	Acenaphthylene	152	5.602	5.602	(0.982)	1333524	2.50759	10.030
80	1,2-Dinitrobenzene	168	5.570	5.570	(0.977)	104588	2.52903	10.116
81	3-Nitroaniline	138	5.656	5.650	(0.992)	238369	2.56699	10.268
82	Acenaphthene	153	5.725	5.725	(1.004)	840998	2.45888	9.8355
83	2,4-Dinitrophenol	184	5.736	5.725	(1.006)	64341	1.90636	7.6254(QR)
85	4-Nitrophenol	109	5.763	5.747	(1.010)	86594	1.92119	7.6848(QM)
86	Dibenzofuran	168	5.848	5.848	(1.025)	1151364	2.50585	10.023
87	2,4-Dinitrotoluene	165	5.816	5.816	(1.020)	289214	2.54789	10.192
91	2,3,5,6-Tetrachlorophenol	232	5.902	5.891	(1.035)	201646	2.34674	9.3870
93	Diethylphthalate	149	5.971	5.971	(1.047)	951643	2.49519	9.9808
94	Fluorene	166	6.100	6.100	(1.069)	963529	2.46780	9.8712
95	4-Chlorophenyl-phenylether	204	6.084	6.078	(1.067)	439434	2.52680	10.107
96	4-Nitroaniline	138	6.100	6.100	(1.069)	249558	2.56259	10.250
98	4,6-Dinitro-2-methylphenol	198	6.121	6.116	(0.902)	73354	1.36328	5.4531(R)
99	N-Nitrosodiphenylamine	169	6.164	6.164	(0.908)	720055	2.53042	10.122
100	1,2-Diphenylhydrazine	77	6.196	6.196	(0.913)	950195	2.44541	9.7816
106	4-Bromophenyl-phenylether	248	6.442	6.437	(0.949)	249612	2.44396	9.7758
107	Hexachlorobenzene	284	6.501	6.496	(0.957)	247243	2.46205	9.8482
212	Atrazine	200	6.533	6.528	(0.962)	183921	2.59535	10.381
111	Pentachlorophenol	266	6.640	6.635	(0.978)	212622	3.09364	12.374(R)
115	Phenanthrene	178	6.806	6.806	(1.002)	1406529	2.43952	9.7581

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
116 Anthracene	178	6.843	6.843	(1.008)	1457478	2.50965	10.038
119 Carbazole	167	6.950	6.945	(1.024)	1336816	2.46652	9.8661
120 Di-n-Butylphthalate	149	7.153	7.153	(1.054)	1715315	2.60771	10.431
123 Fluoranthene	202	7.677	7.672	(1.131)	1483377	2.51068	10.043
124 Benzidine	184	7.752	7.747	(0.885)	752026	2.14983	8.5993
125 Pyrene	202	7.854	7.849	(0.897)	1570121	2.47562	9.9025
131 Butylbenzylphthalate	149	8.266	8.255	(0.944)	770366	2.59776	10.391
133 3,3'-Dimethoxybenzidine	244	8.662	8.651	(0.989)	317740	2.47305	9.8922
135 3,3'-Dichlorobenzidine	252	8.699	8.688	(0.993)	557210	2.51346	10.054
136 Benzo(a)Anthracene	228	8.747	8.737	(0.999)	1559709	2.56151	10.246
137 Chrysene	228	8.779	8.769	(1.002)	1487673	2.58917	10.357
138 4,4'-Methylene bis(o-chloroan	231	8.694	8.688	(0.993)	285340	2.45599	9.8239
139 bis(2-ethylhexyl)Phthalate	149	8.672	8.662	(0.990)	1131513	2.67734	10.709
140 Di-n-octylphthalate	149	9.234	9.223	(0.903)	1921180	2.68287	10.731
141 Benzo(b)fluoranthene	252	9.763	9.753	(0.955)	1456840	2.48291	9.9316
142 Benzo(k)fluoranthene	252	9.796	9.785	(0.958)	1649230	2.64159	10.566
146 Benzo(a)pyrene	252	10.159	10.143	(0.994)	1398591	2.48299	9.9320
149 Indeno(1,2,3-cd)pyrene	276	11.833	11.812	(1.157)	1572330	2.49788	9.9915
150 Dibenz(a,h)anthracene	278	11.849	11.828	(1.159)	1357491	2.56184	10.247
151 Benzo(g,h,i)perylene	276	12.325	12.304	(1.206)	1265598	2.40952	9.6381
198 1,4-Dioxane	88	1.719	1.725	(0.486)	127286	2.11813	8.4725
101 Diphenylamine	169	6.164	6.164	(0.908)	720055	2.53042	10.122

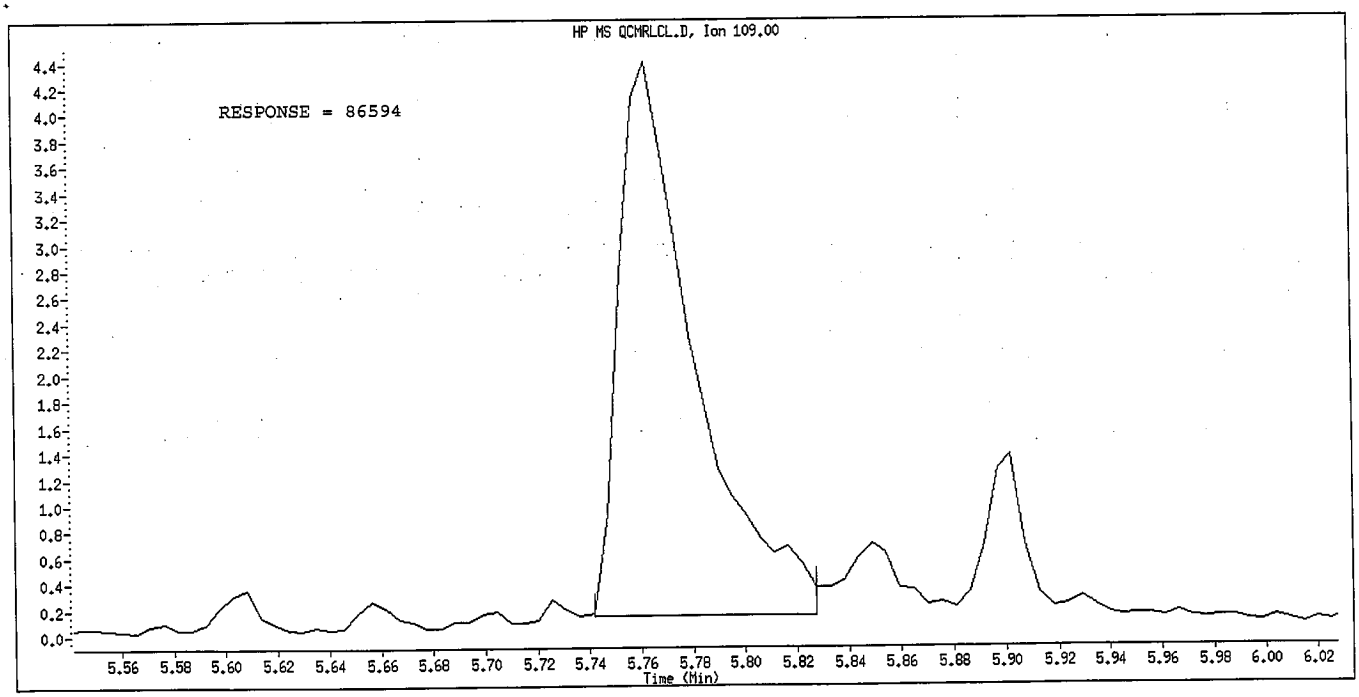
QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File Name: QCMRLCL.D
Inj. Date and Time: 12-MAR-2010 15:38
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/15/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

OK MU 3/17/10

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\MDLL1.D
Lab Smp Id: mdll1
Inj Date : 12-MAR-2010 15:58
Operator : 001710 Inst ID: a4hp7.i
Smp Info : mdll1,00312a.b,8270c-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270c-625.m
Meth Date : 12-Mar-2010 13:03 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 21 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.538	3.538	(1.000)	343776	2.00000	(Q)
* 2 Naphthalene-d8	136	4.436	4.431	(1.000)	1416541	2.00000	
* 3 Acenaphthene-d10	164	5.704	5.699	(1.000)	785335	2.00000	
* 4 Phenanthrene-d10	188	6.790	6.784	(1.000)	1265877	2.00000	
* 5 Chrysene-d12	240	8.753	8.747	(1.000)	1516275	2.00000	
* 6 Perylene-d12	264	10.224	10.207	(1.000)	1380654	2.00000	
9 Pyridine	79	Compound Not Detected.					
10 N-Nitrosodimethylamine	74	1.901	1.901	(0.537)	4072	0.03567	0.035674(M)
11 Ethyl methacrylate	69	2.126	2.131	(0.601)	6821	0.03961	0.039614
12 3-Chloropropionitrile	54	2.318	2.318	(0.655)	5566	0.04270	0.042702
13 Malononitrile	66	2.463	2.463	(0.696)	10565	0.04144	0.041436
209 Benzaldehyde	77	3.249	3.249	(0.918)	8393	0.06086	0.060862
21 Aniline	93	3.313	3.313	(0.937)	11088	0.03337	0.033366
22 Phenol	94	3.254	3.254	(0.920)	10508	0.03859	0.038588
23 bis(2-Chloroethyl)ether	93	3.335	3.334	(0.943)	14123	0.06198	0.061982
24 2-Chlorophenol	128	3.399	3.393	(0.961)	9759	0.04417	0.044173
26 1,3-Dichlorobenzene	146	3.500	3.500	(0.989)	11527	0.05123	0.051234
27 1,4-Dichlorobenzene	146	3.549	3.548	(1.003)	11619	0.05224	0.052239(QM)
28 1,2-Dichlorobenzene	146	3.655	3.655	(1.033)	10999	0.05119	0.051187
29 Benzyl Alcohol	108	Compound Not Detected.					
30 2-Methylphenol	108	3.672	3.666	(1.038)	9105	0.04545	0.045454(QM)
31 bis(2-Chloroisopropyl)ether	45	3.693	3.693	(1.044)	17065	0.05301	0.053009
37 Acetophenone	105	3.805	3.805	(1.076)	11045	0.03792	0.037915
32 N-Nitroso-di-n-propylamine	70	3.795	3.794	(1.073)	5844	0.03754	0.037544
192 4-Methylphenol	108	3.778	3.773	(1.068)	4984	0.02374	0.023739(M)
34 Hexachloroethane	117	3.896	3.896	(1.101)	3139	0.03776	0.037758
35 Nitrobenzene	77	3.934	3.934	(0.887)	9058	0.04285	0.042846(M)
41 Isophorone	82	4.094	4.089	(0.923)	19211	0.04541	0.045407
42 2-Nitrophenol	139	4.158	4.153	(0.937)	3154	0.02787	0.027871(Q)
43 2,4-Dimethylphenol	107	4.153	4.147	(0.936)	5390	0.02550	0.025503
44 bis(2-Chloroethoxy)methane	93	4.222	4.217	(0.952)	7484	0.03040	0.030395
46 2,4-Toluenediamene	121	Compound Not Detected.					
47 1,3,5-Trichlorobenzene	180	4.164	4.158	(0.939)	8876	0.04876	0.048756
48 2,4-Dichlorophenol	162	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.383	4.383	(0.988)	9773	0.05424	0.054238
51	Naphthalene	128	4.452	4.447	(1.004)	34180	0.05218	0.052184
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	4.517	4.517	(1.018)	5187	0.05522	0.055216
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	4.549	4.543	(1.025)	8679	0.05098	0.050982
59	4-Chloro-3-Methylphenol	107	4.816	4.789	(1.086)	7603	0.04086	0.040857(M)
62	2-Methylnaphthalene	142	4.945	4.939	(1.115)	19188	0.05381	0.053812
63	1-Methylnaphthalene	142	5.019	5.014	(1.131)	18856	0.04599	0.045988
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	5.148	5.132	(0.902)	3080	0.02633	0.026329
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	5.276	5.271	(0.925)	24994	0.04666	0.046665
68	1,2,3,5-Tetrachlorobenzene	216	5.051	5.046	(0.886)	8622	0.04819	0.048191
70	2-Chloronaphthalene	162	5.308	5.297	(0.931)	18972	0.04769	0.047685
73	2-Nitroaniline	65	5.383	5.356	(0.944)	5981	0.05122	0.051222(QM)
74	1,2,3,4-Tetrachlorobenzene	216	5.271	5.265	(0.924)	7747	0.04683	0.046830
76	Dimethylphthalate	163	5.469	5.469	(0.959)	25265	0.05523	0.055234
78	2,6-Dinitrotoluene	165	5.522	5.522	(0.968)	4020	0.03939	0.039390
79	Acenaphthylene	152	5.608	5.602	(0.983)	33275	0.05090	0.050902
80	1,2-Dinitrobenzene	168	5.581	5.570	(0.978)	1949	0.03834	0.038339(Q)
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	5.725	5.725	(1.004)	23094	0.05493	0.054929(Q)
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.854	5.848	(1.026)	28749	0.05090	0.050901
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	5.971	5.971	(1.047)	27855	0.05941	0.059415
94	Fluorene	166	6.105	6.100	(1.070)	23903	0.04980	0.049804
95	4-Chlorophenyl-phenylether	204	6.084	6.078	(1.067)	11634	0.05442	0.054421
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	6.169	6.164	(0.909)	16885	0.04975	0.049750
100	1,2-Diphenylhydrazine	77	6.201	6.196	(0.913)	19892	0.04292	0.042922
106	4-Bromophenyl-phenylether	248	6.442	6.437	(0.949)	6638	0.05449	0.054492
107	Hexachlorobenzene	284	6.501	6.496	(0.957)	6705	0.05598	0.055981
212	Atrazine	200	6.538	6.528	(0.963)	5215	0.06170	0.061700
111	Pentachlorophenol	266	Compound Not Detected.					
115	Phenanthrene	178	6.806	6.806	(1.002)	36647	0.05329	0.053292
116	Anthracene	178	6.849	6.843	(1.009)	38334	0.05534	0.055343
119	Carbazole	167	6.961	6.945	(1.025)	35242	0.05452	0.054518
120	Di-n-Butylphthalate	149	7.153	7.153	(1.054)	72861	0.09287	0.092870
123	Fluoranthene	202	7.678	7.672	(1.131)	37812	0.05366	0.053658
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.854	7.849	(0.897)	40850	0.05226	0.052258
131	Butylbenzylphthalate	149	8.266	8.255	(0.944)	20595	0.05635	0.056348
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	8.705	8.688	(0.995)	14215	0.05202	0.052025
136	Benzo(a)Anthracene	228	8.747	8.737	(0.999)	43281	0.05767	0.057671
137	Chrysene	228	8.774	8.769	(1.002)	40805	0.05762	0.057620
138	4,4'-Methylene bis(o-chloroan	231	8.699	8.688	(0.994)	6709	0.04685	0.046852
139	bis(2-ethylhexyl)Phthalate	149	8.673	8.662	(0.991)	43003	0.08256	0.082557

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
140	Di-n-octylphthalate	149	9.229	9.223	(0.903)	52777	0.06094	0.060937
141	Benzo(b)fluoranthene	252	9.769	9.753	(0.956)	38629	0.05443	0.054434
142	Benzo(k)fluoranthene	252	9.796	9.785	(0.958)	38988	0.05163	0.051632
146	Benzo(a)pyrene	252	10.159	10.143	(0.994)	35467	0.05206	0.052062
149	Indeno(1,2,3-cd)pyrene	276	11.834	11.812	(1.157)	41449	0.05444	0.054444(M)
150	Dibenz(a,h)anthracene	278	11.839	11.828	(1.158)	34152	0.05329	0.053289
151	Benzo(g,h,i)perylene	276	12.336	12.304	(1.207)	31315	0.04929	0.049294(M)
198	1,4-Dioxane	88	1.719	1.725	(0.486)	3405	0.04600	0.046003
101	Diphenylamine	169	6.169	6.164	(0.909)	16885	0.04975	0.049750

QC Flag Legend

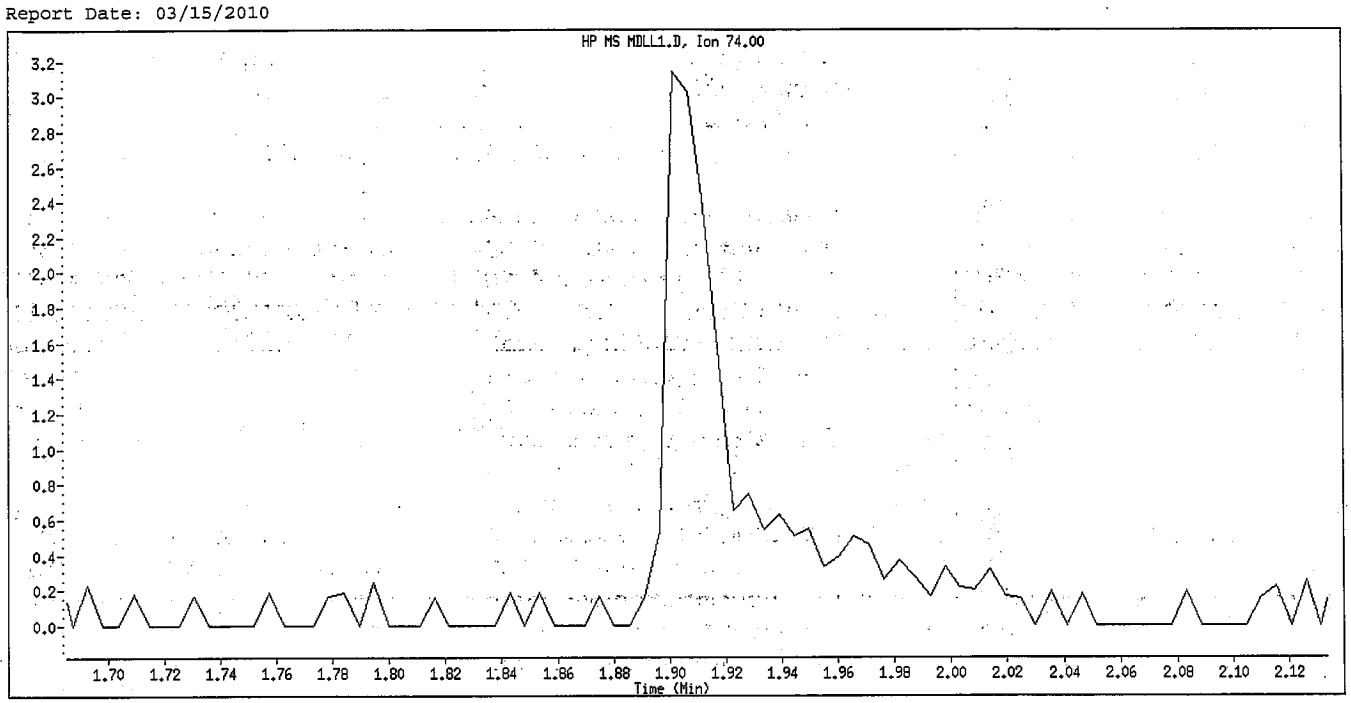
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\MSS\a4hp7,i\00312a,b\MDLL1,D
Date : 12-MAR-2010 15:58
Client ID:
Sample Info: mdll1,00312a,b,8270c-625,1-827042d,sub

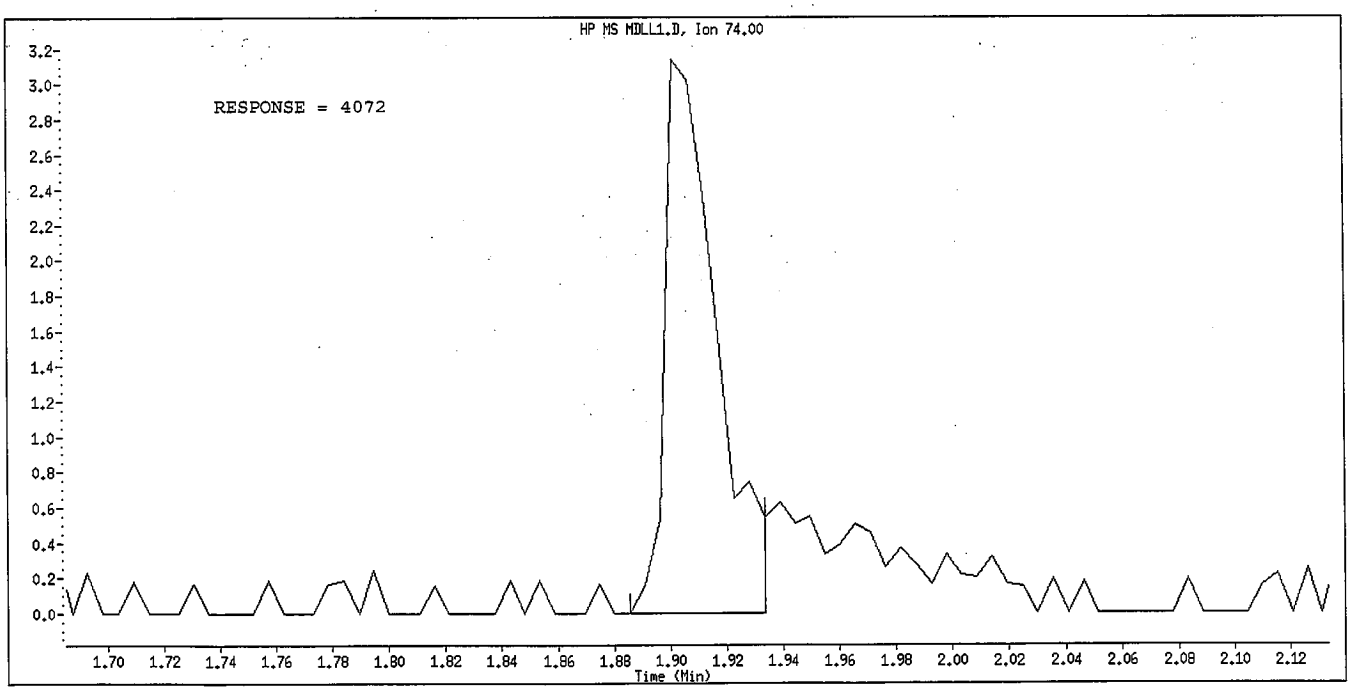
Column phase: db5,625

Instrument: a4hp7,i
Operator: 001710
Column diameter: 0.32

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 15:58
Instrument ID: a4hp7.i
Client ID:
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 03/15/2010



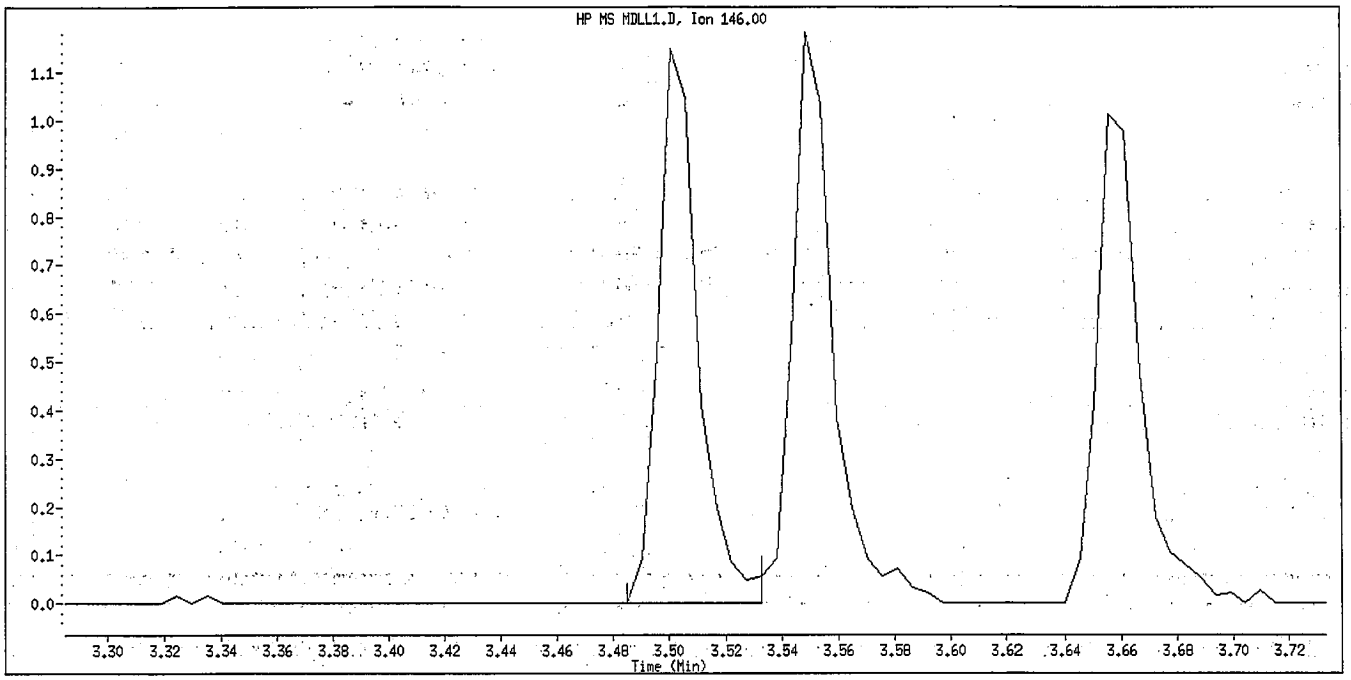
Original Integration



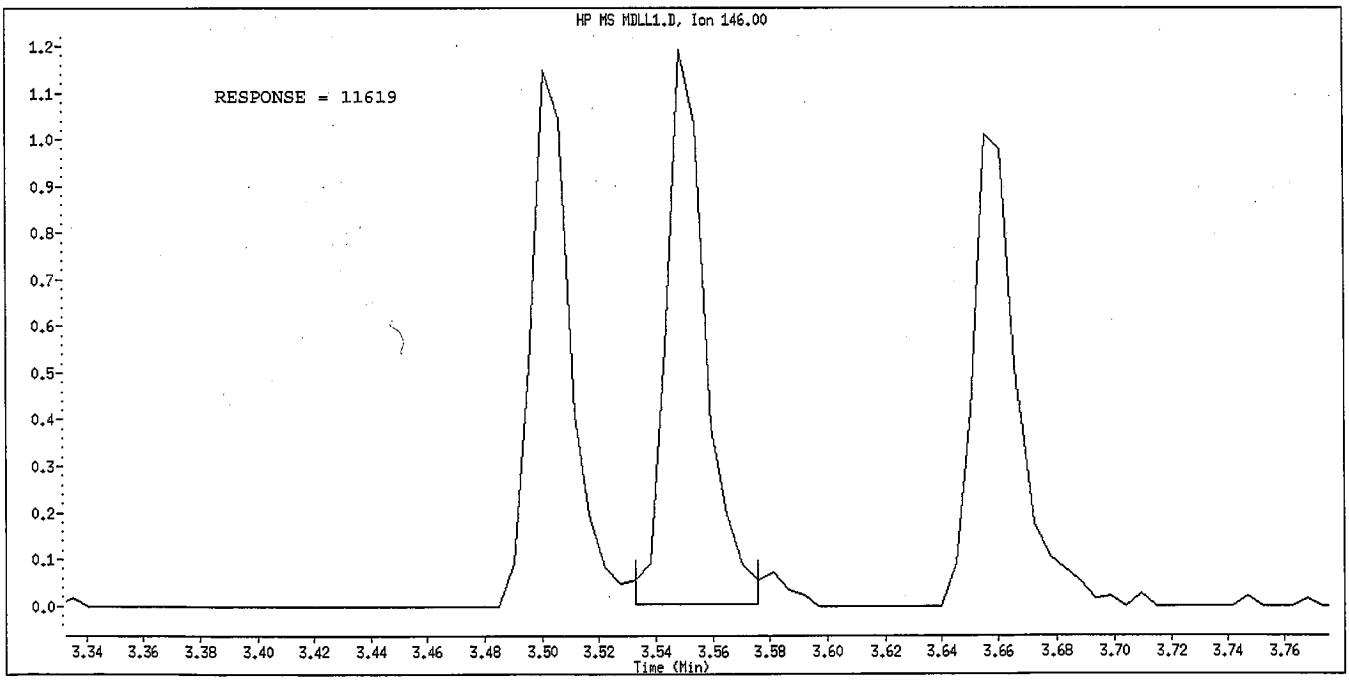
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 15:58
Instrument ID: a4hp7.i
Client ID:
Compound Name: 1,4-Dichlorobenzene
CAS #: 106-46-7
Report Date: 03/15/2010



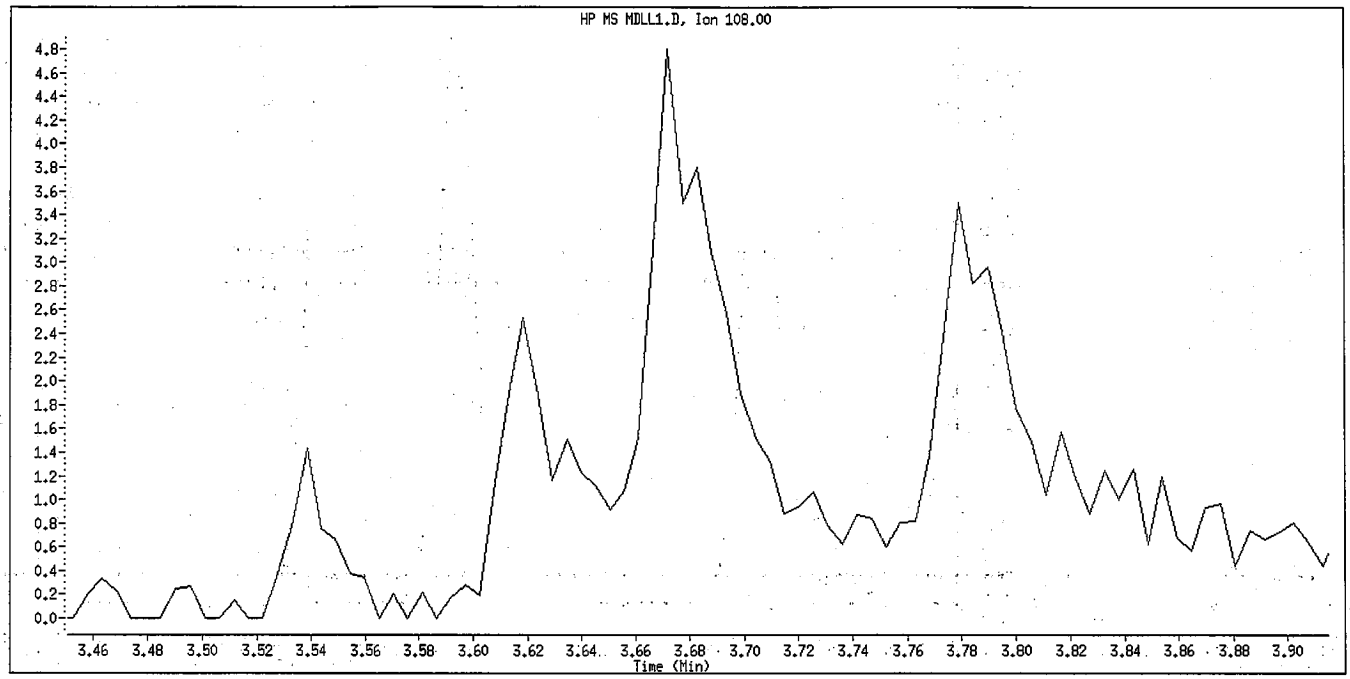
Original Integration



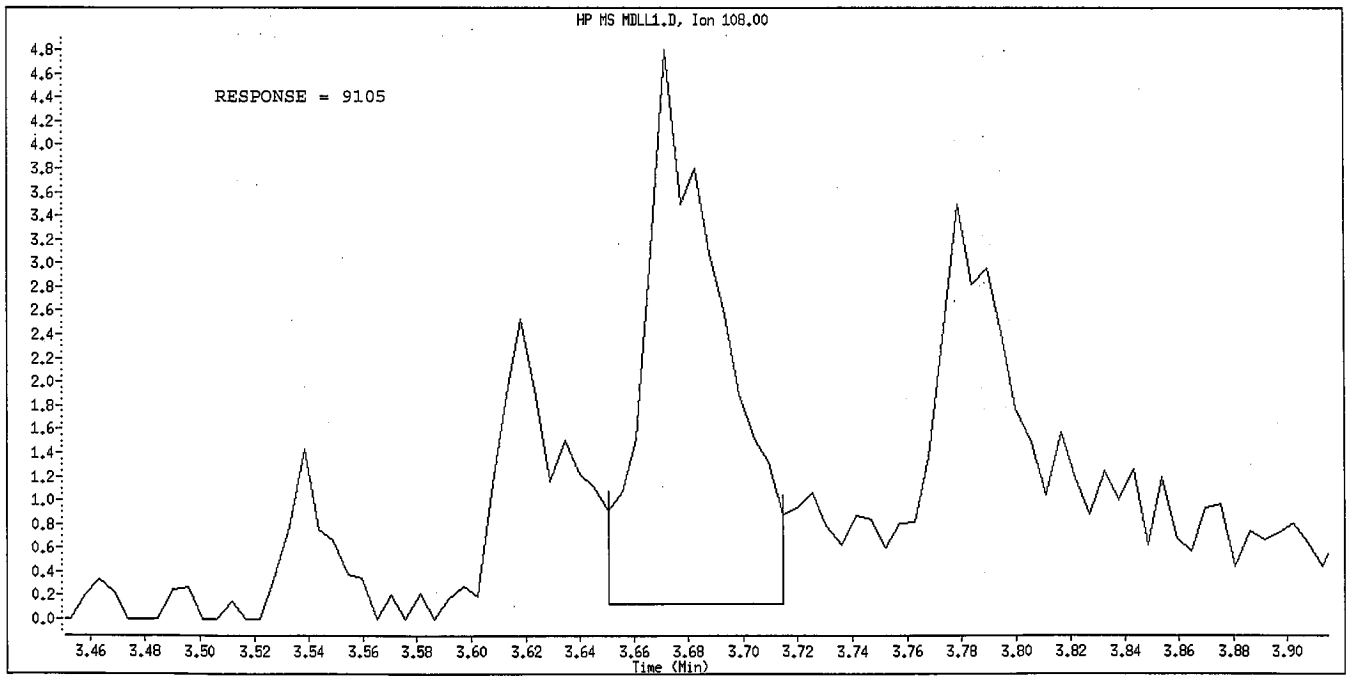
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 15:58
Instrument ID: a4hp7.i
Client ID:
Compound Name: 2-Methylphenol
CAS #: 95-48-7
Report Date: 03/15/2010



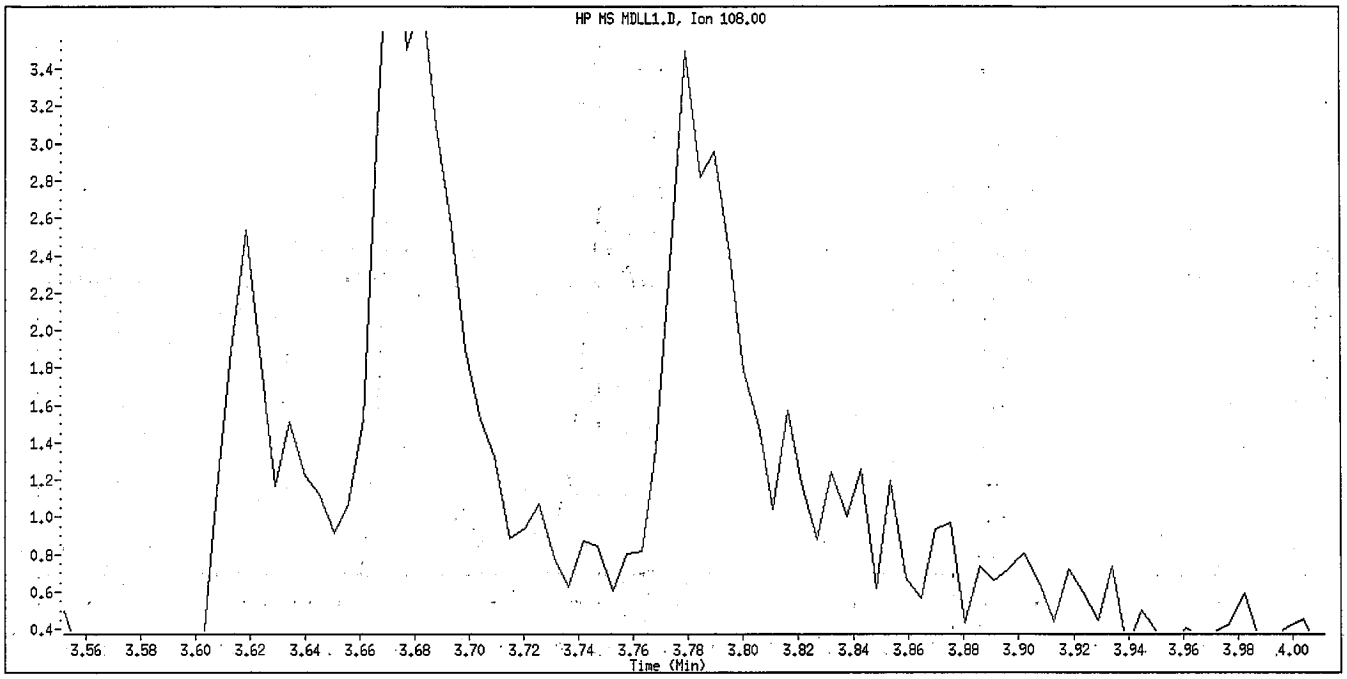
Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 15:58
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4-Methylphenol
CAS #: 106-44-5
Report Date: 03/15/2010



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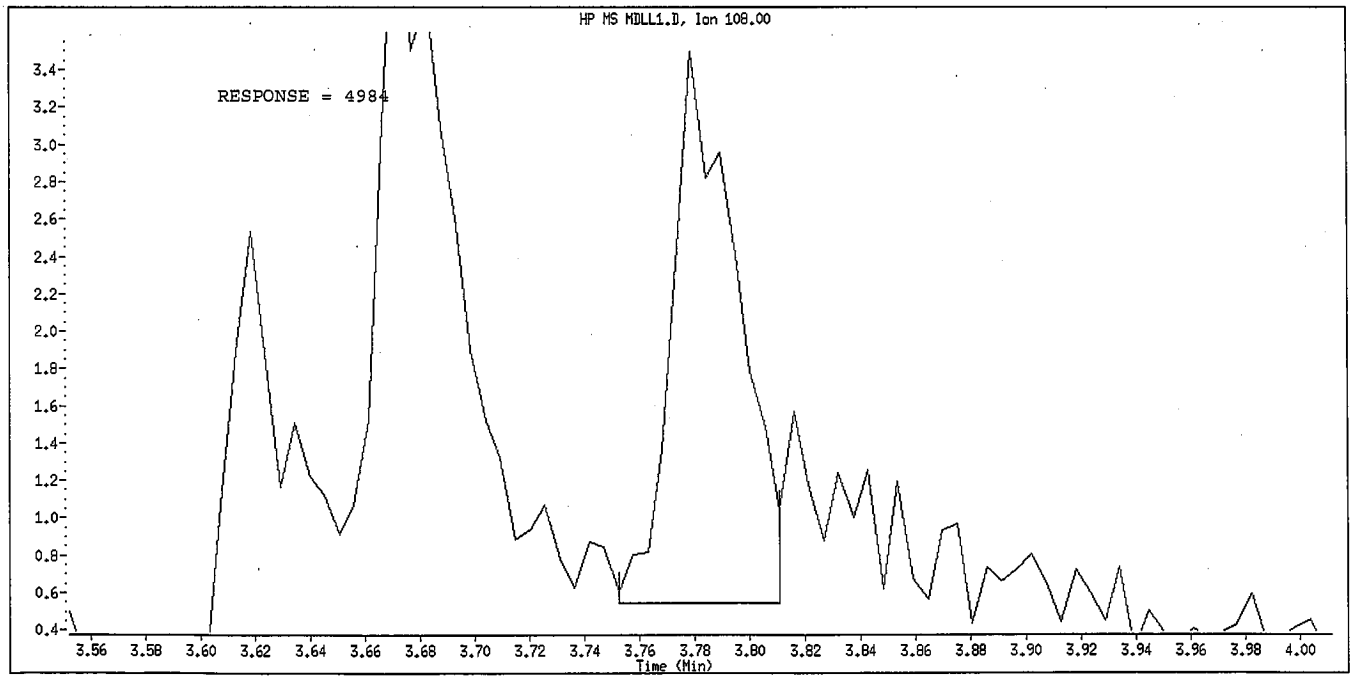
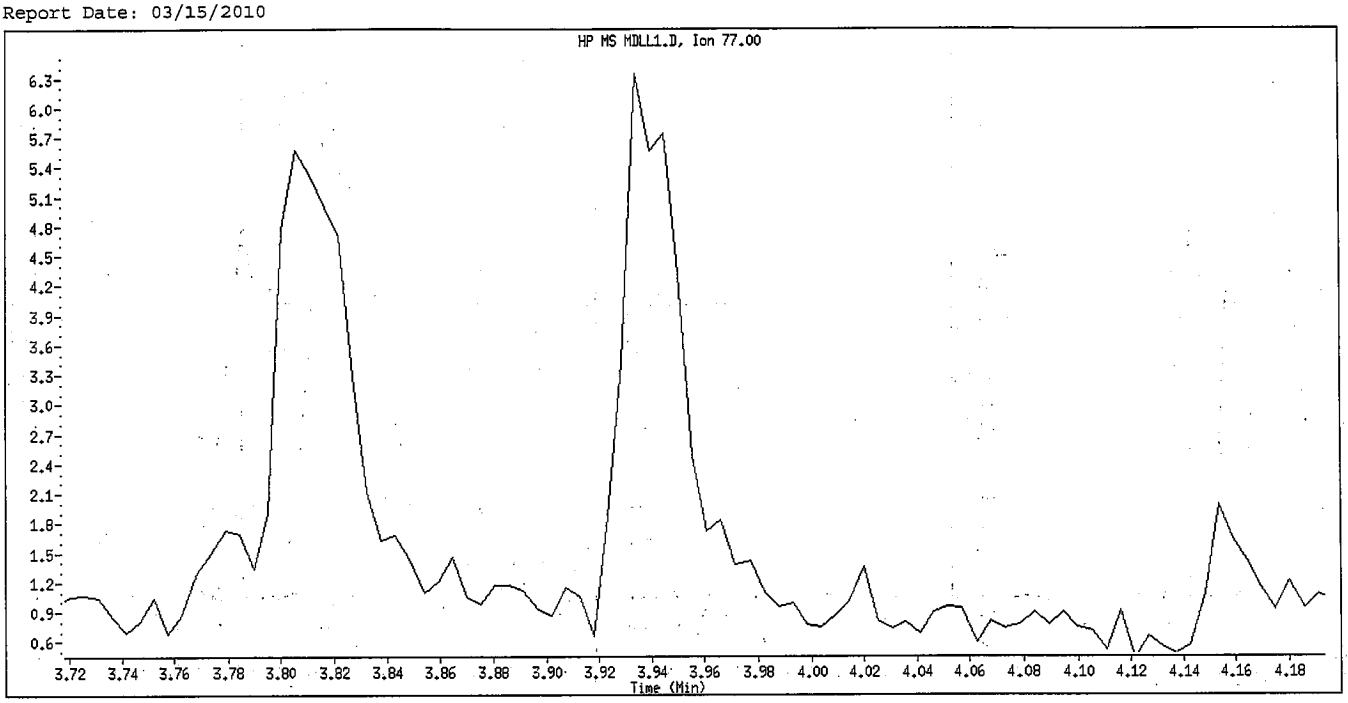


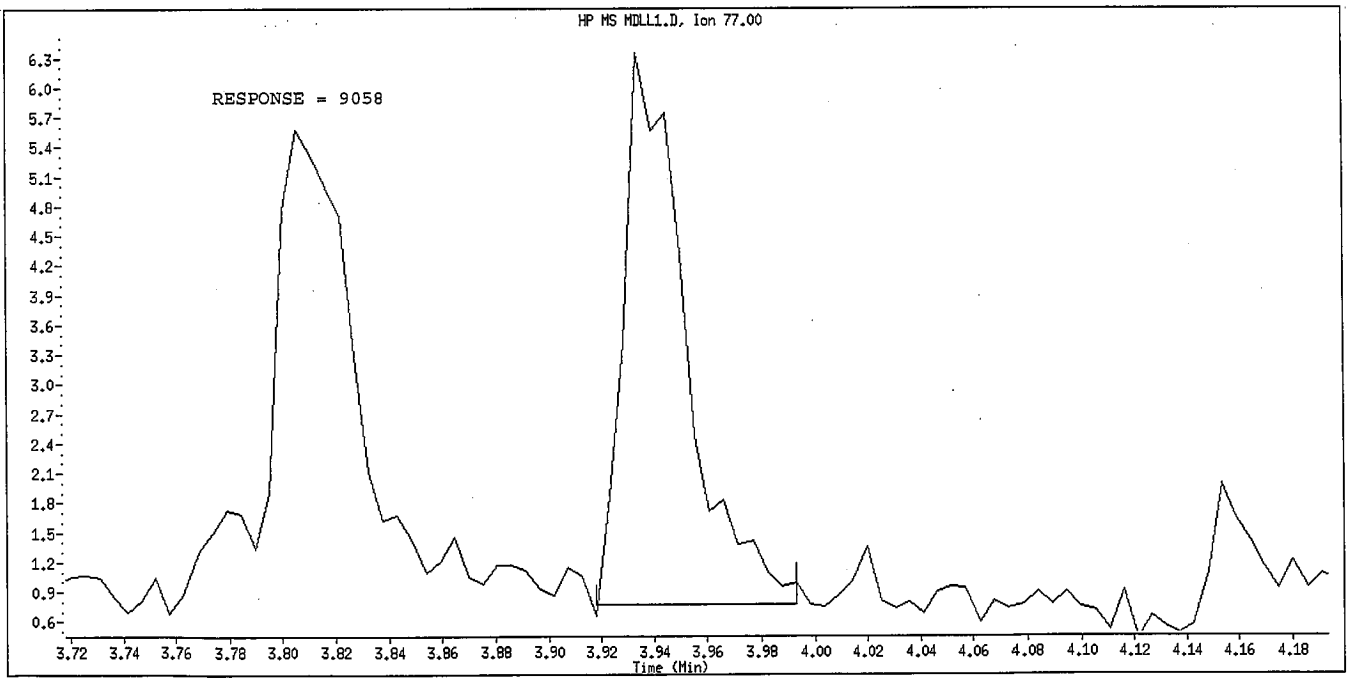
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 15:58
Instrument ID: a4hp7.i
Client ID:
Compound Name: Nitrobenzene
CAS #: 98-95-3
Report Date: 03/15/2010



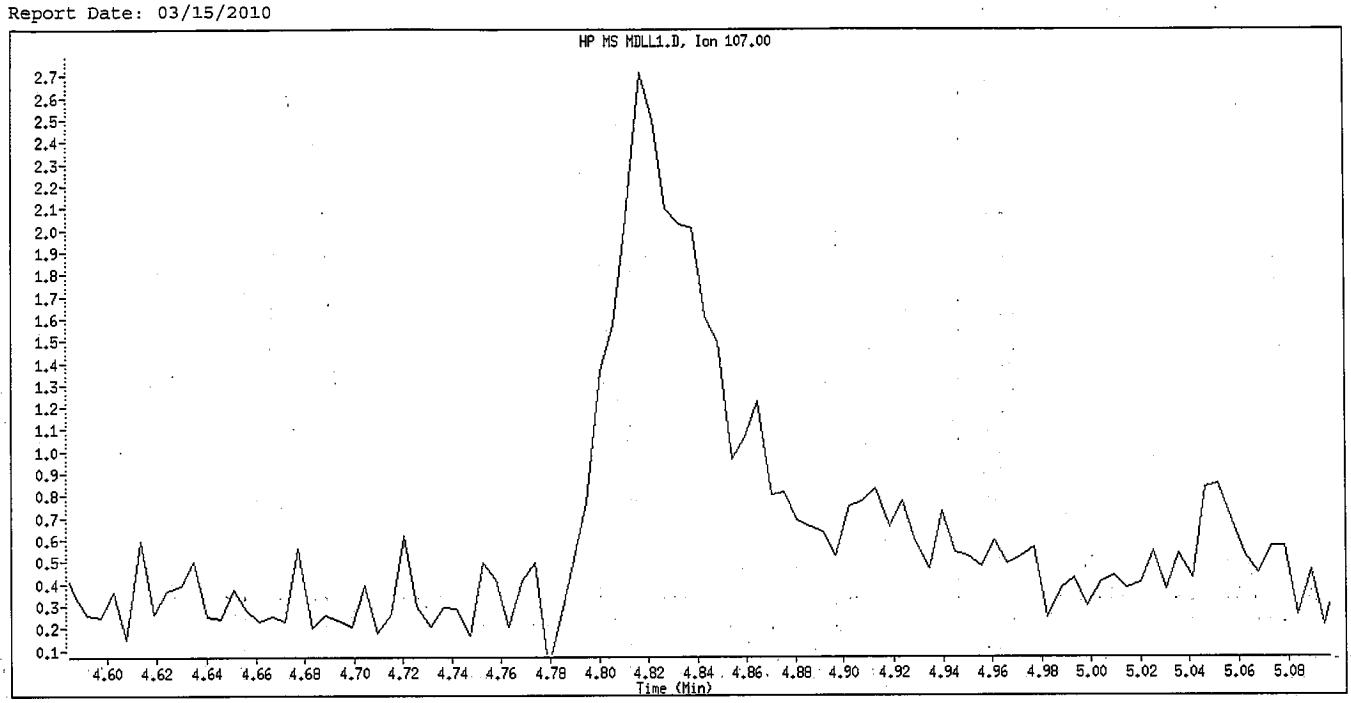
Original Integration



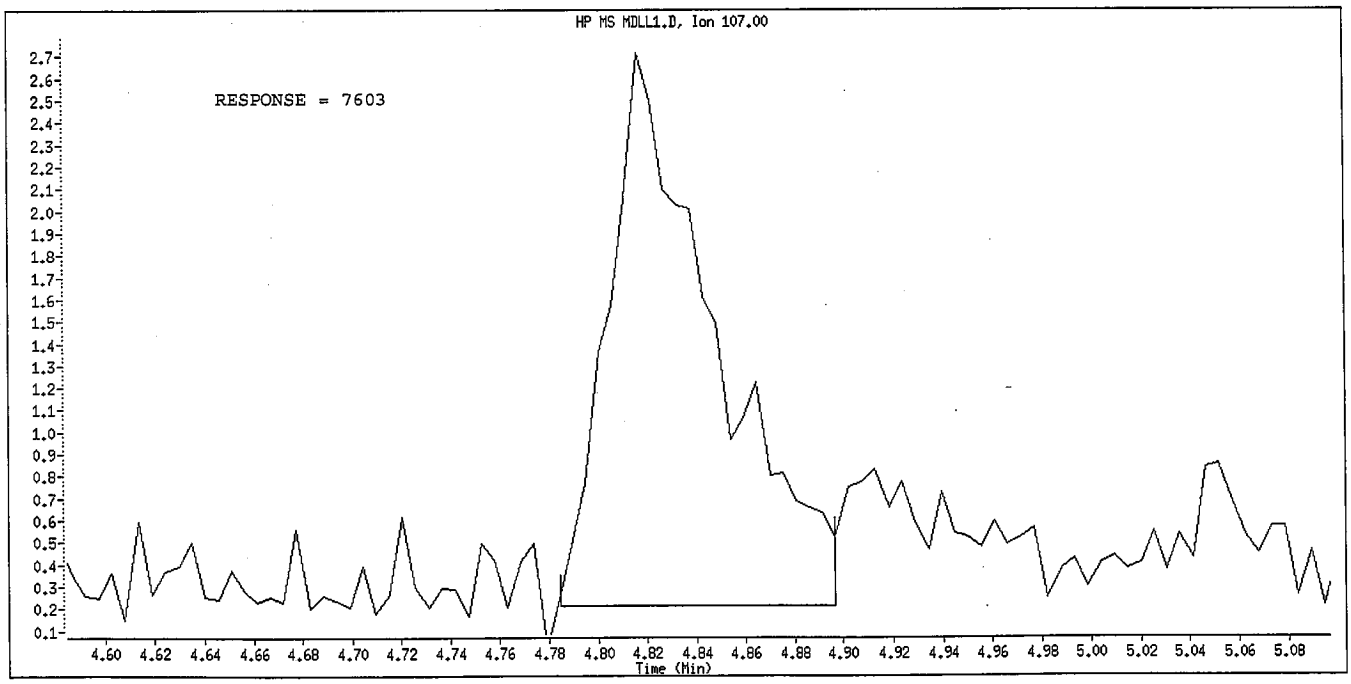
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 15:58
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4-Chloro-3-Methylphenol
CAS #: 59-50-7
Report Date: 03/15/2010



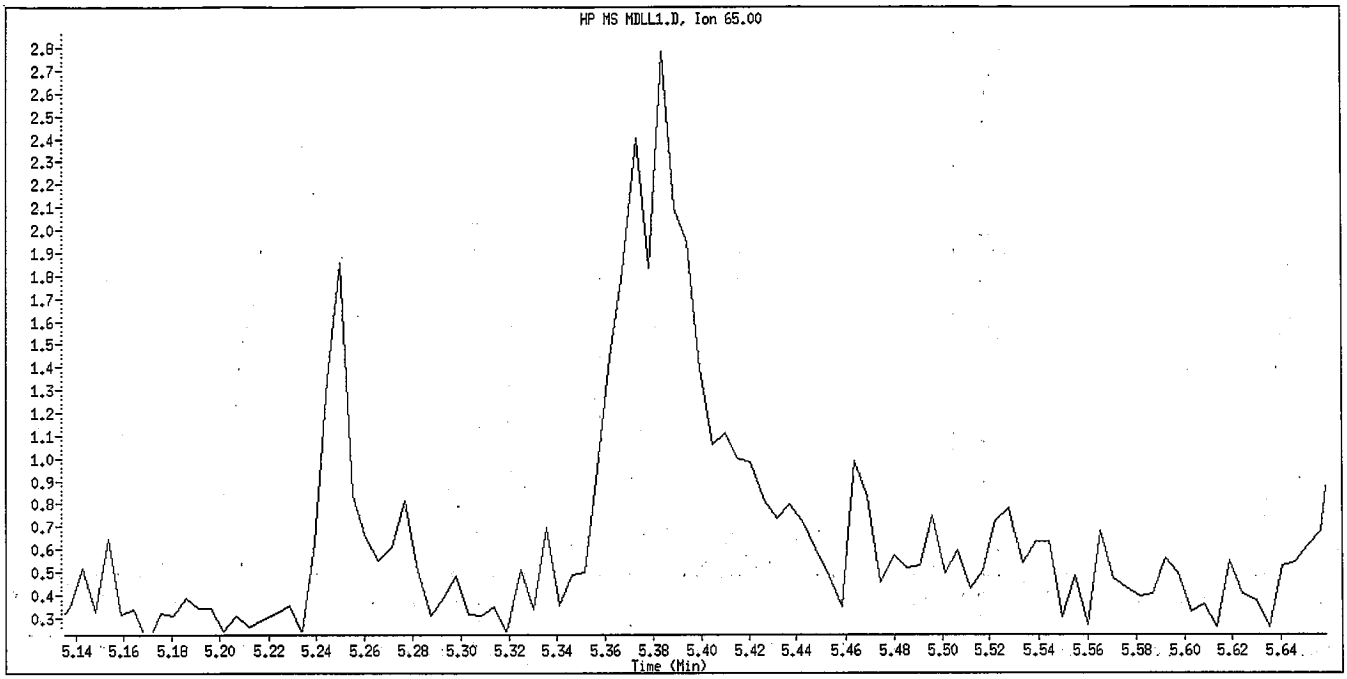
Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 15:58
Instrument ID: a4hp7.i
Client ID:
Compound Name: 2-Nitroaniline
CAS #: 88-74-4
Report Date: 03/15/2010



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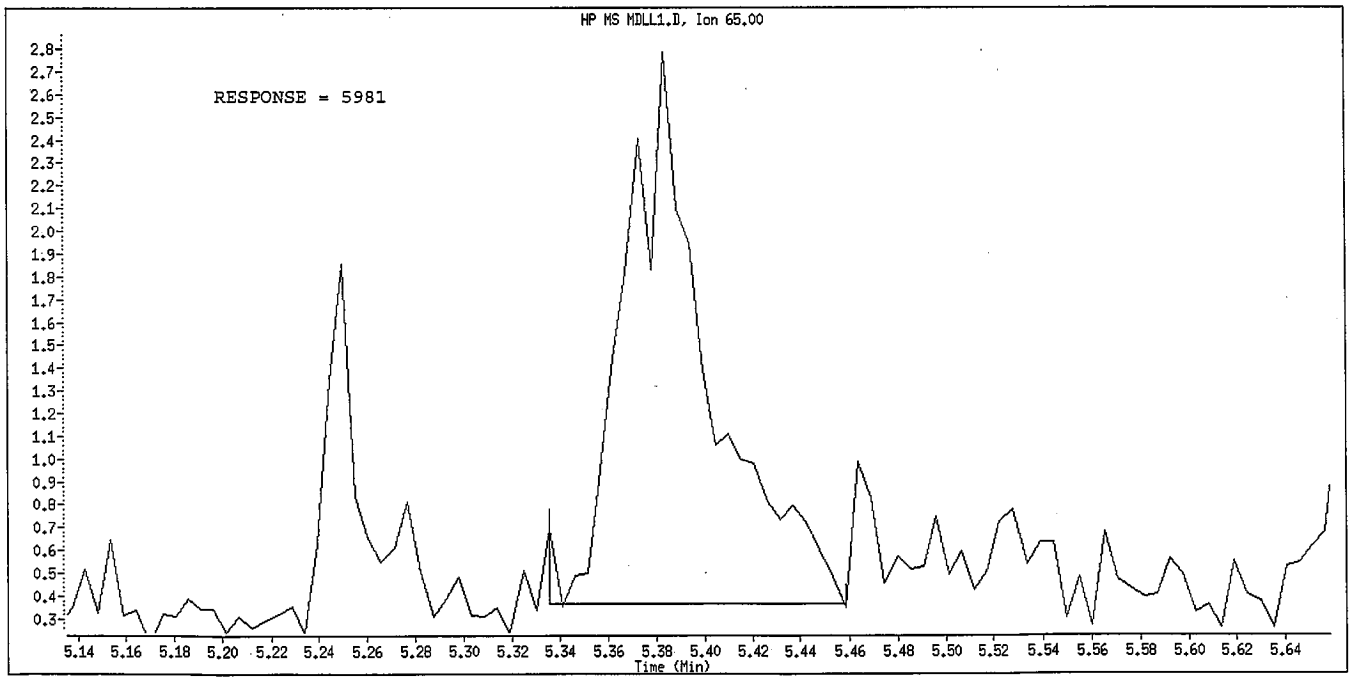
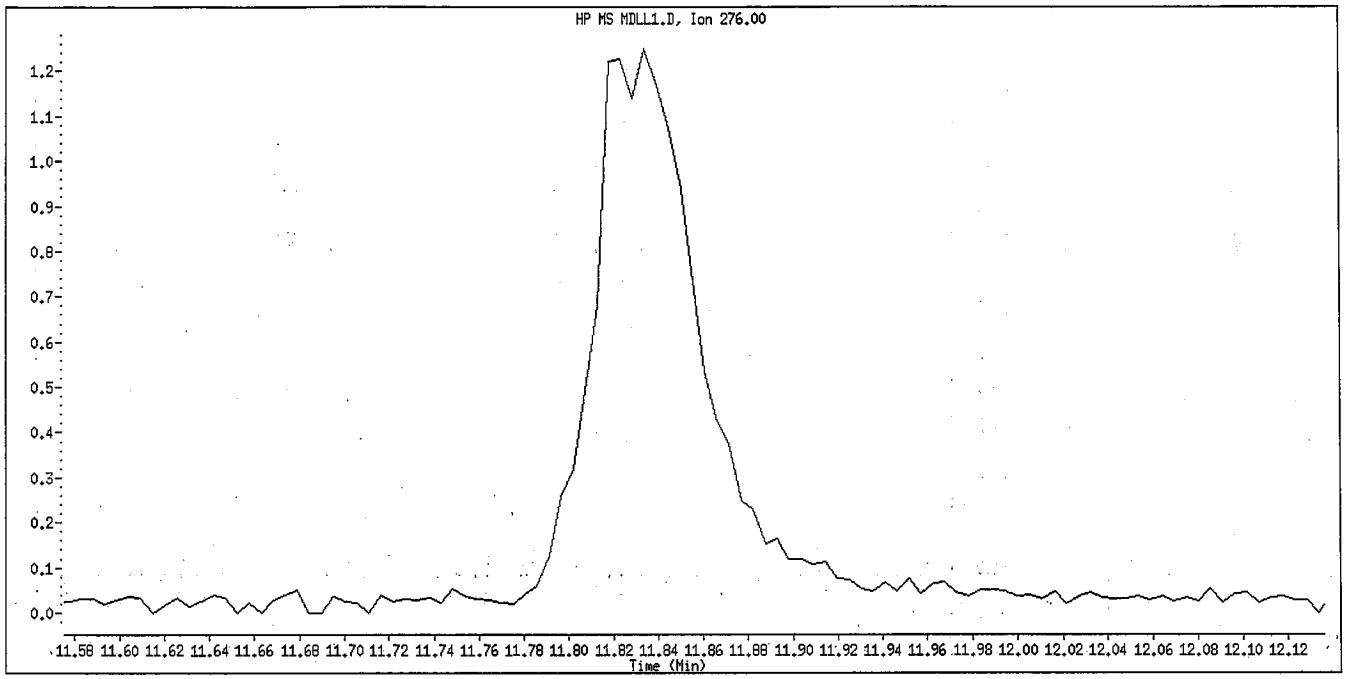


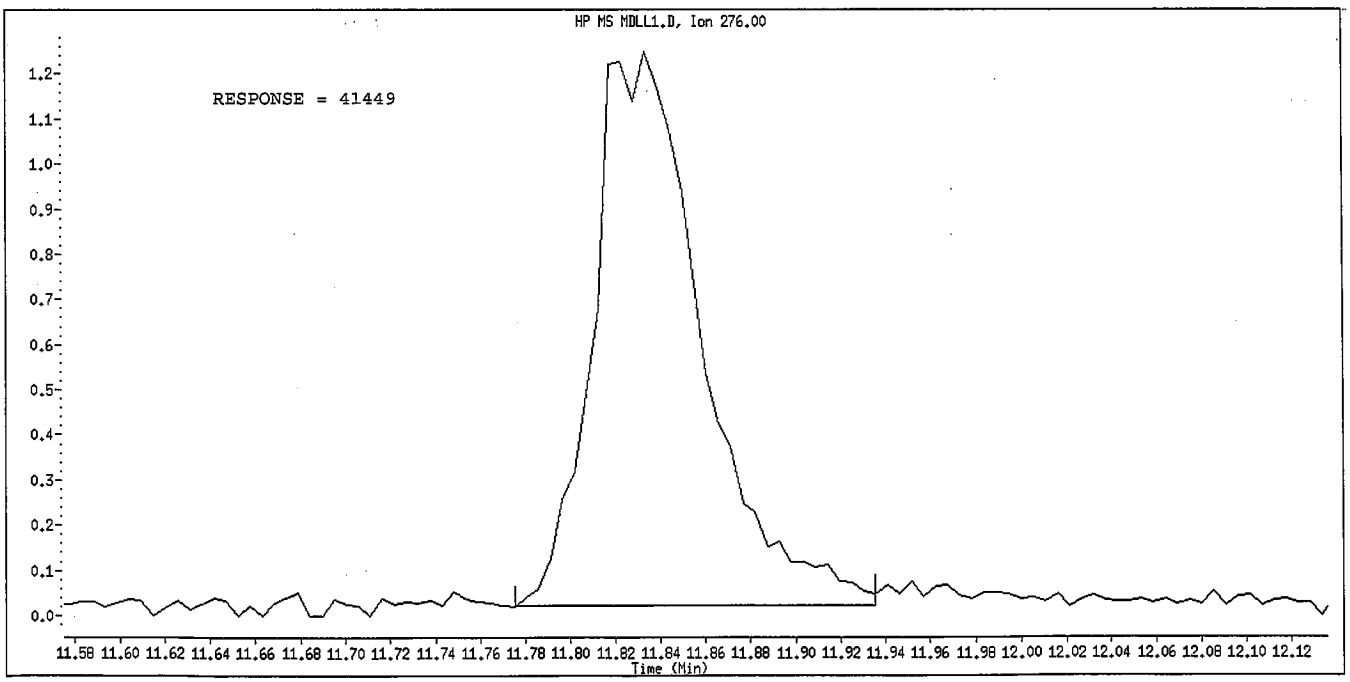
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 15:58
Instrument ID: a4hp7.i
Client ID:
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2010



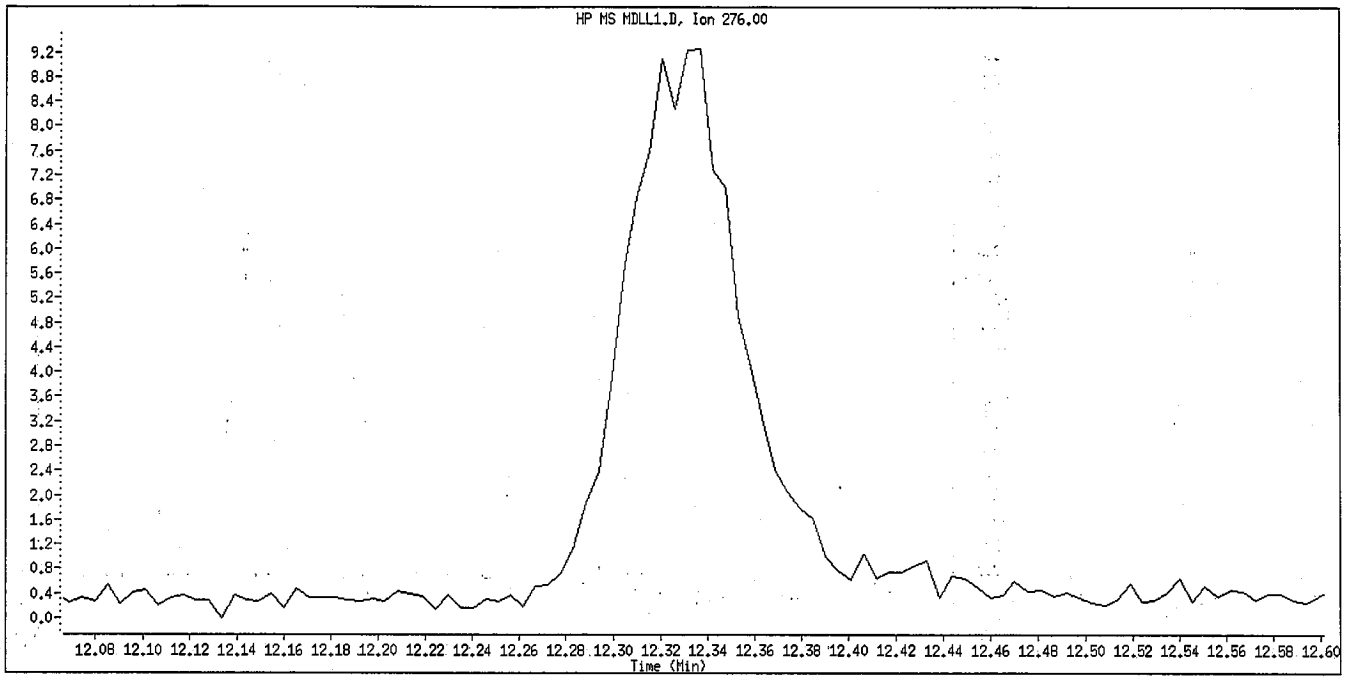
Original Integration



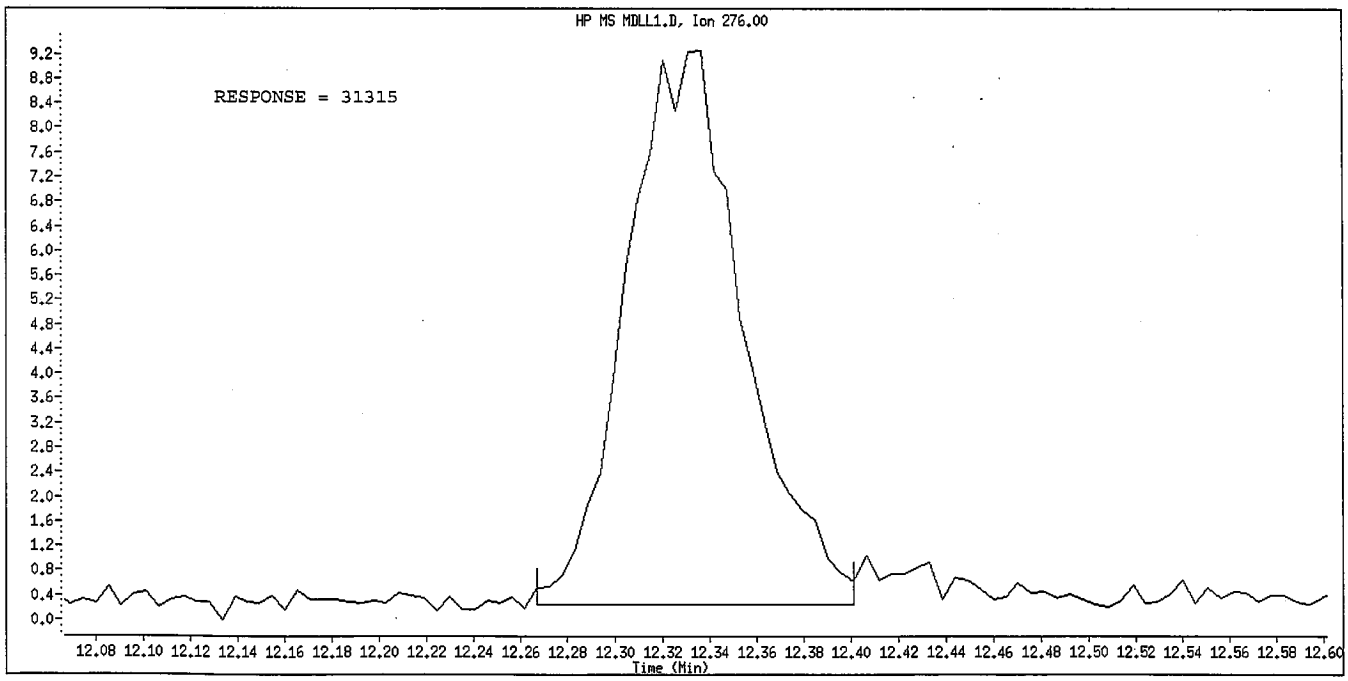
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL1.D
Inj. Date and Time: 12-MAR-2010 15:58
Instrument ID: a4hp7.i
Client ID:
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/15/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica North Canton

okmw 3/17/10

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\MDLL2.D
Lab Smp Id: mdll2
Inj Date : 12-MAR-2010 16:17
Operator : 001710 Inst ID: a4hp7.i
Smp Info : mdll2,00312a.b,8270c-625,1-827042d.sub
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270c-625.m
Meth Date : 12-Mar-2010 13:03 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 22 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

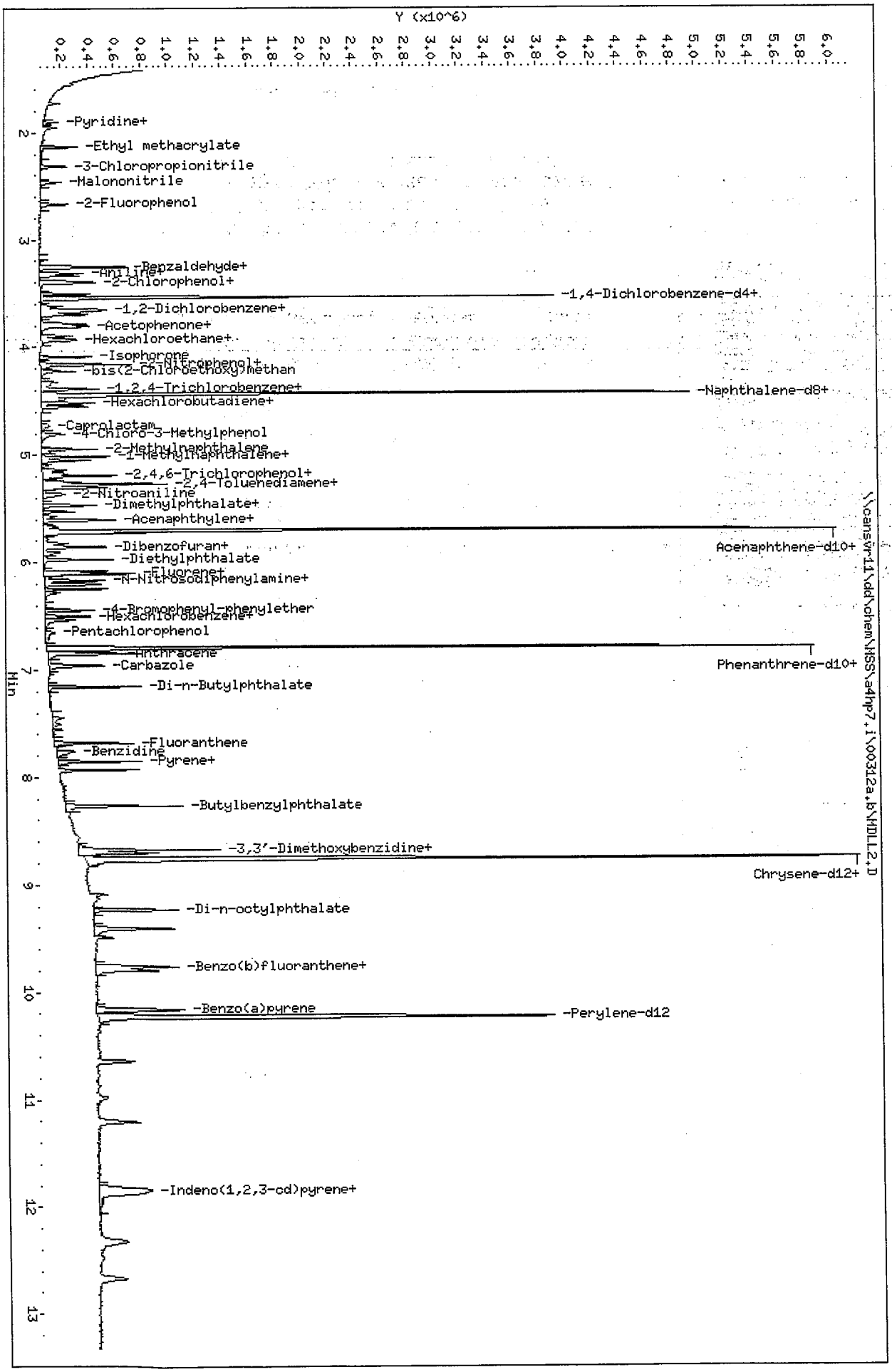
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	3.538	3.538	(1.000)	529405	2.00000		(Q)
* 2 Naphthalene-d8	136	4.436	4.431	(1.000)	2222779	2.00000		
* 3 Acenaphthene-d10	164	5.704	5.699	(1.000)	1197261	2.00000		
* 4 Phenanthrene-d10	188	6.790	6.784	(1.000)	1906302	2.00000		
* 5 Chrysene-d12	240	8.753	8.747	(1.000)	2199965	2.00000		
* 6 Perylene-d12	264	10.223	10.207	(1.000)	2073467	2.00000		
9 Pyridine	79	1.949	1.928	(0.551)	44457	0.14714	0.14714	
10 N-Nitrosodimethylamine	74	1.901	1.901	(0.537)	42443	0.24146	0.24146	
11 Ethyl methacrylate	69	2.131	2.131	(0.602)	62274	0.23485	0.23485	
12 3-Chloropropionitrile	54	2.318	2.318	(0.655)	48630	0.24227	0.24227	
13 Malononitrile	66	2.463	2.463	(0.696)	96983	0.24700	0.24700	
209 Benzaldehyde	77	3.249	3.249	(0.918)	58958	0.27762	0.27762	
21 Aniline	93	3.313	3.313	(0.937)	115439	0.22558	0.22558	
22 Phenol	94	3.254	3.254	(0.920)	100592	0.23987	0.23987	
23 bis(2-Chloroethyl)ether	93	3.334	3.334	(0.943)	95800	0.27302	0.27302	
24 2-Chlorophenol	128	3.399	3.393	(0.961)	78997	0.23219	0.23219	
26 1,3-Dichlorobenzene	146	3.500	3.500	(0.989)	86912	0.25085	0.25084	
27 1,4-Dichlorobenzene	146	3.554	3.548	(1.005)	84310	0.24615	0.24615	
28 1,2-Dichlorobenzene	146	3.661	3.655	(1.035)	82908	0.25055	0.25055	
29 Benzyl Alcohol	108	3.613	3.613	(1.021)	46065	0.20619	0.20619	
30 2-Methylphenol	108	3.671	3.666	(1.038)	72774	0.23592	0.23592	
31 bis(2-Chloroisopropyl)ether	45	3.693	3.693	(1.044)	122677	0.24745	0.24745	
37 Acetophenone	105	3.805	3.805	(1.076)	109149	0.24331	0.24331	
32 N-Nitroso-di-n-propylamine	70	3.789	3.794	(1.071)	55152	0.23008	0.23008	
192 4-Methylphenol	108	3.773	3.773	(1.067)	73163	0.22629	0.22629	
34 Hexachloroethane	117	3.896	3.896	(1.101)	25105	0.19609	0.19609	
35 Nitrobenzene	77	3.934	3.934	(0.887)	77517	0.23367	0.23367	
41 Isophorone	82	4.089	4.089	(0.922)	154866	0.23327	0.23327	
42 2-Nitrophenol	139	4.158	4.153	(0.937)	32138	0.18099	0.18098	
43 2,4-Dimethylphenol	107	4.153	4.147	(0.936)	74461	0.22453	0.22453	
44 bis(2-Chloroethoxy)methane	93	4.222	4.217	(0.952)	93701	0.24252	0.24252	
46 2,4-Toluenediamene	121	5.265	5.255	(1.187)	43878	0.21633	0.21633	
47 1,3,5-Trichlorobenzene	180	4.158	4.158	(0.937)	71850	0.25152	0.25I52	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48	2,4-Dichlorophenol	162	4.319	4.313	(0.973)	29127	0.11233	0.11233(M)
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.383	4.383	(0.988)	71985	0.25459	0.25459
51	Naphthalene	128	4.452	4.447	(1.004)	259460	0.25245	0.25245
52	4-Chloroaniline	127	4.474	4.468	(1.008)	87920	0.19827	0.19827
56	Hexachlorobutadiene	225	4.517	4.517	(1.018)	36504	0.24764	0.24764
210	Caprolactam	113	4.720	4.736	(1.064)	17799	0.15139	0.15138(Q)
57	1,2,3-Trichlorobenzene	180	4.549	4.543	(1.025)	66379	0.24849	0.24849
59	4-Chloro-3-Methylphenol	107	4.800	4.789	(1.082)	64035	0.21930	0.21930
62	2-Methylnaphthalene	142	4.944	4.939	(1.115)	133351	0.23833	0.23833
63	1-Methylnaphthalene	142	5.014	5.014	(1.130)	156642	0.24347	0.24347
64	Hexachlorocyclopentadiene	237	5.046	5.041	(0.885)	4303	0.14160	0.14160(M)
66	2,4,6-Trichlorophenol	196	5.137	5.132	(0.901)	35846	0.20100	0.20100
67	2,4,5-Trichlorophenol	196	5.174	5.158	(0.907)	45990	0.24009	0.24009
211	1,1'-Biphenyl	154	5.271	5.271	(0.924)	195662	0.23962	0.23962
68	1,2,3,5-Tetrachlorobenzene	216	5.051	5.046	(0.886)	67345	0.24691	0.24690
70	2-Chloronaphthalene	162	5.297	5.297	(0.929)	149054	0.24574	0.24574
73	2-Nitroaniline	65	5.362	5.356	(0.940)	41858	0.23514	0.23514
74	1,2,3,4-Tetrachlorobenzene	216	5.271	5.265	(0.924)	62218	0.24670	0.24670
76	Dimethylphthalate	163	5.469	5.469	(0.959)	171431	0.24584	0.24584
78	2,6-Dinitrotoluene	165	5.522	5.522	(0.968)	33669	0.21640	0.21640
79	Acenaphthylene	152	5.602	5.602	(0.982)	249394	0.25025	0.25025
80	1,2-Dinitrobenzene	168	5.570	5.570	(0.977)	16578	0.21391	0.21391
81	3-Nitroaniline	138	5.666	5.650	(0.993)	41717	0.23973	0.23973
82	Acenaphthene	153	5.725	5.725	(1.004)	157464	0.24567	0.24567
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.854	5.848	(1.026)	211137	0.24521	0.24521
87	2,4-Dinitrotoluene	165	5.822	5.816	(1.021)	41640	0.19575	0.19575
91	2,3,5,6-Tetrachlorophenol	232	5.907	5.891	(1.036)	30321	0.18830	0.18830
93	Diethylphthalate	149	5.971	5.971	(1.047)	175154	0.24506	0.24506
94	Fluorene	166	6.100	6.100	(1.069)	175360	0.23967	0.23966
95	4-Chlorophenyl-phenylether	204	6.084	6.078	(1.067)	78938	0.24221	0.24221
96	4-Nitroaniline	138	6.110	6.100	(1.071)	36542	0.20023	0.20023
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	6.164	6.164	(0.908)	129222	0.25283	0.25283
100	1,2-Diphenylhydrazine	77	6.196	6.196	(0.913)	171590	0.24587	0.24586
106	4-Bromophenyl-phenylether	248	6.442	6.437	(0.949)	43610	0.23773	0.23773
107	Hexachlorobenzene	284	6.501	6.496	(0.957)	44725	0.24797	0.24796
212	Atrazine	200	6.533	6.528	(0.962)	31388	0.24660	0.24660
111	Pentachlorophenol	266	6.651	6.635	(0.980)	19030	0.35140	0.35140(M)
115	Phenanthrene	178	6.806	6.806	(1.002)	254172	0.24544	0.24544
116	Anthracene	178	6.843	6.843	(1.008)	264740	0.25380	0.25380
119	Carbazole	167	6.955	6.945	(1.024)	234476	0.24087	0.24087
120	Di-n-Butylphthalate	149	7.153	7.153	(1.054)	299628	0.25361	0.25361
123	Fluoranthene	202	7.678	7.672	(1.131)	261171	0.24611	0.24611
124	Benzidine	184	7.758	7.747	(0.886)	104415	0.16692	0.16692
125	Pyrene	202	7.854	7.849	(0.897)	283335	0.24982	0.24982
131	Butylbenzylphthalate	149	8.266	8.255	(0.944)	133895	0.25249	0.25249
133	3,3'-Dimethoxybenzidine	244	8.662	8.651	(0.990)	51471	0.22403	0.22402
135	3,3'-Dichlorobenzidine	252	8.699	8.688	(0.994)	89990	0.22700	0.22700
136	Benzo(a)Anthracene	228	8.747	8.737	(0.999)	280331	0.25745	0.25745
137	Chrysene	228	8.774	8.769	(1.002)	271958	0.26468	0.26468
138	4,4'-Methylene bis(o-chloroan	231	8.694	8.688	(0.993)	46976	0.22611	0.22611

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.672	8.662	(0.991)	202430	0.26785	0.26785
140 Di-n-octylphthalate	149	9.229	9.223	(0.903)	325501	0.25025	0.25025
141 Benzo(b)fluoranthene	252	9.764	9.753	(0.955)	265007	0.24866	0.24866
142 Benzo(k)fluoranthene	252	9.796	9.785	(0.958)	276886	0.24416	0.24416
146 Benzo(a)pyrene	252	10.154	10.143	(0.993)	246767	0.24119	0.24119
149 Indeno(1,2,3-cd)pyrene	276	11.828	11.812	(1.157)	288236	0.25210	0.25210
150 Dibenz(a,h)anthracene	278	11.839	11.828	(1.158)	241789	0.25122	0.25122
151 Benzo(g,h,i)perylene	276	12.326	12.304	(1.206)	235712	0.24707	0.24706
198 1,4-Dioxane	88	1.725	1.725	(0.488)	25759	0.22599	0.22599
101 Diphenylamine	169	6.164	6.164	(0.908)	129222	0.25283	0.25283

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32

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Inj. Date and Time: 12-MAR-2010 16:17
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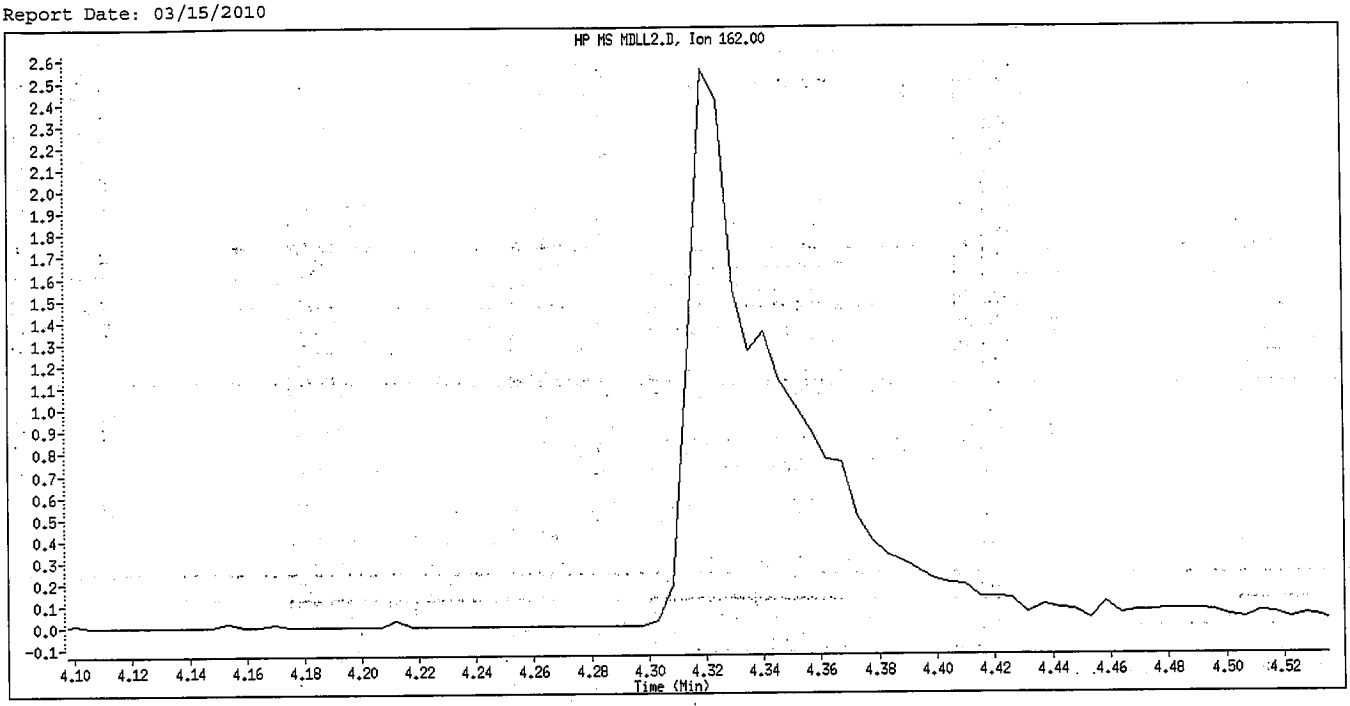
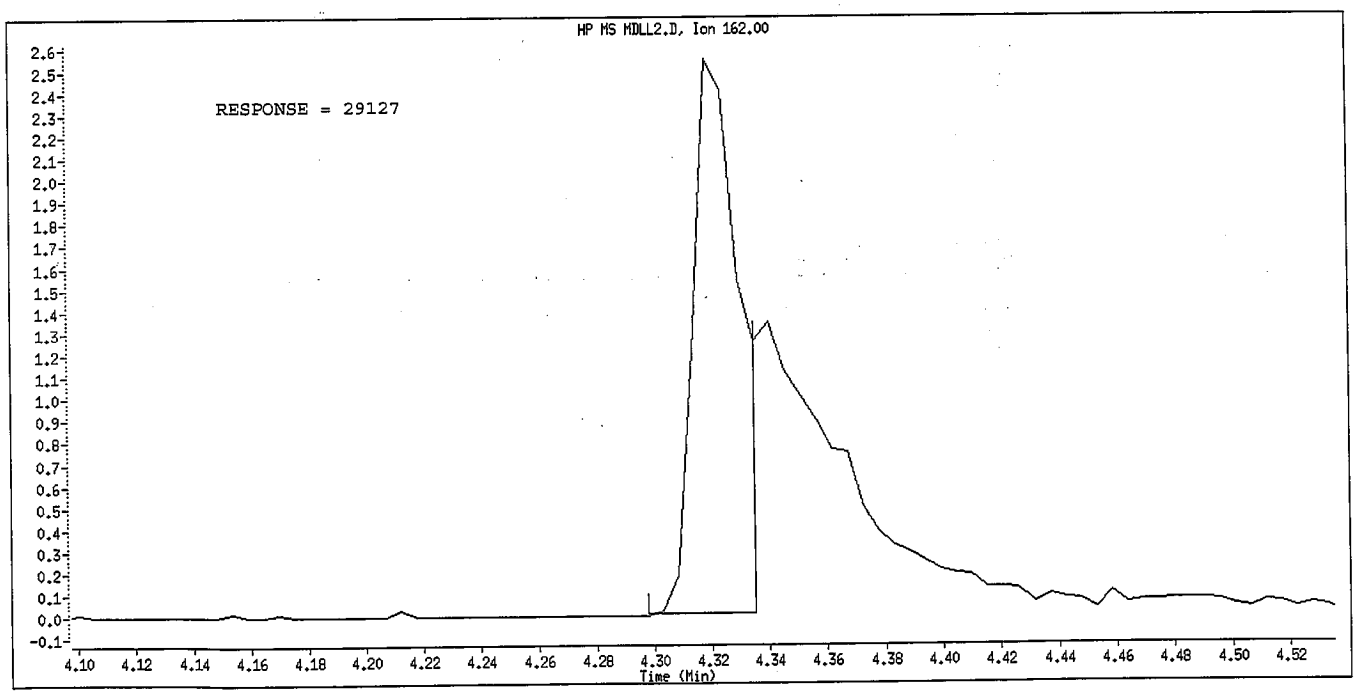
Client ID:
Compound Name: 2,4-Dichlorophenol
CAS #: 120-83-2
Report Date: 03/15/2010



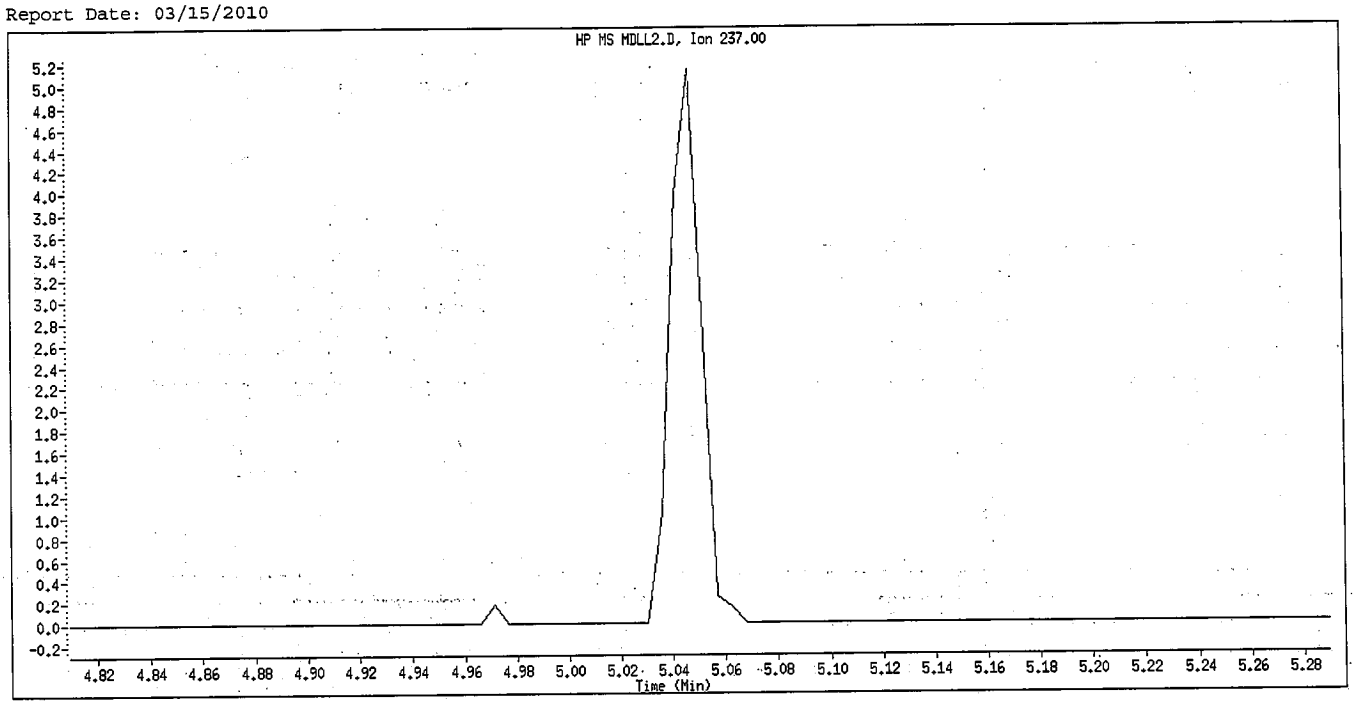
Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL2.D
Inj. Date and Time: 12-MAR-2010 16:17
Instrument ID: a4hp7.i
Client ID:
Compound Name: Hexachlorocyclopentadiene
CAS #: 77-47-4
Report Date: 03/15/2010



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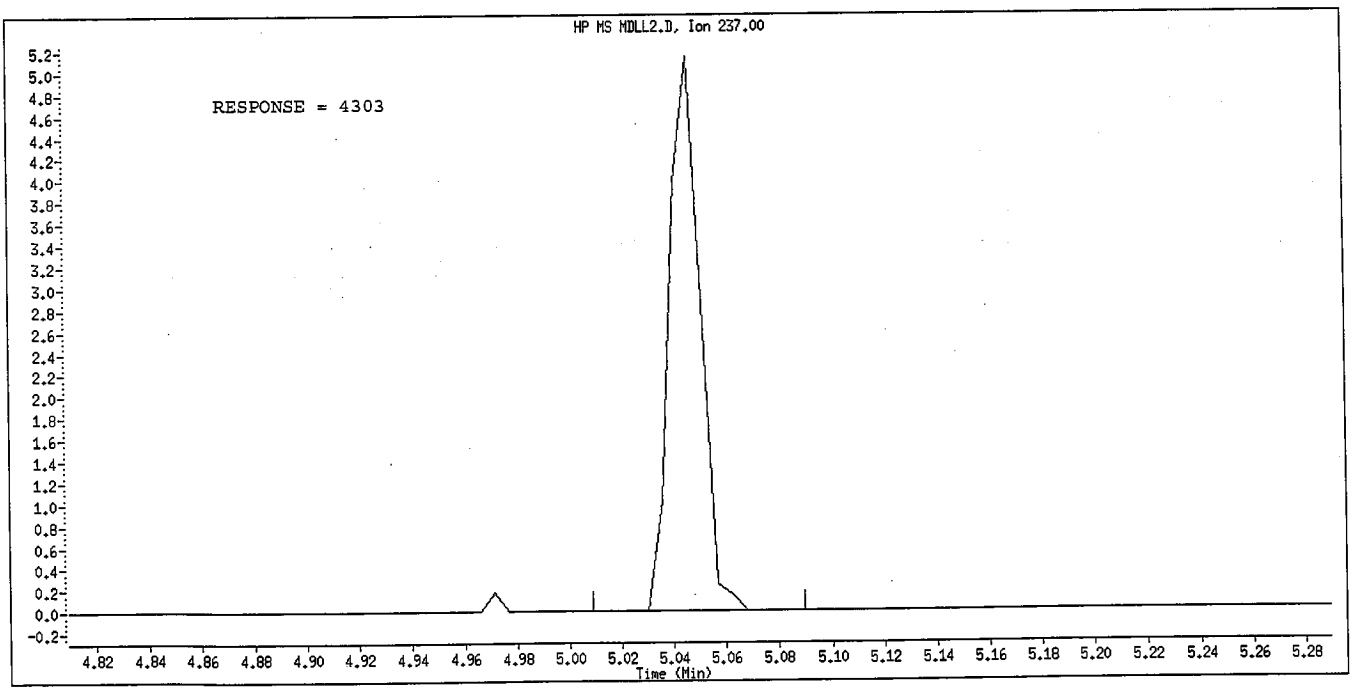

Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL2.D
Inj. Date and Time: 12-MAR-2010 16:17
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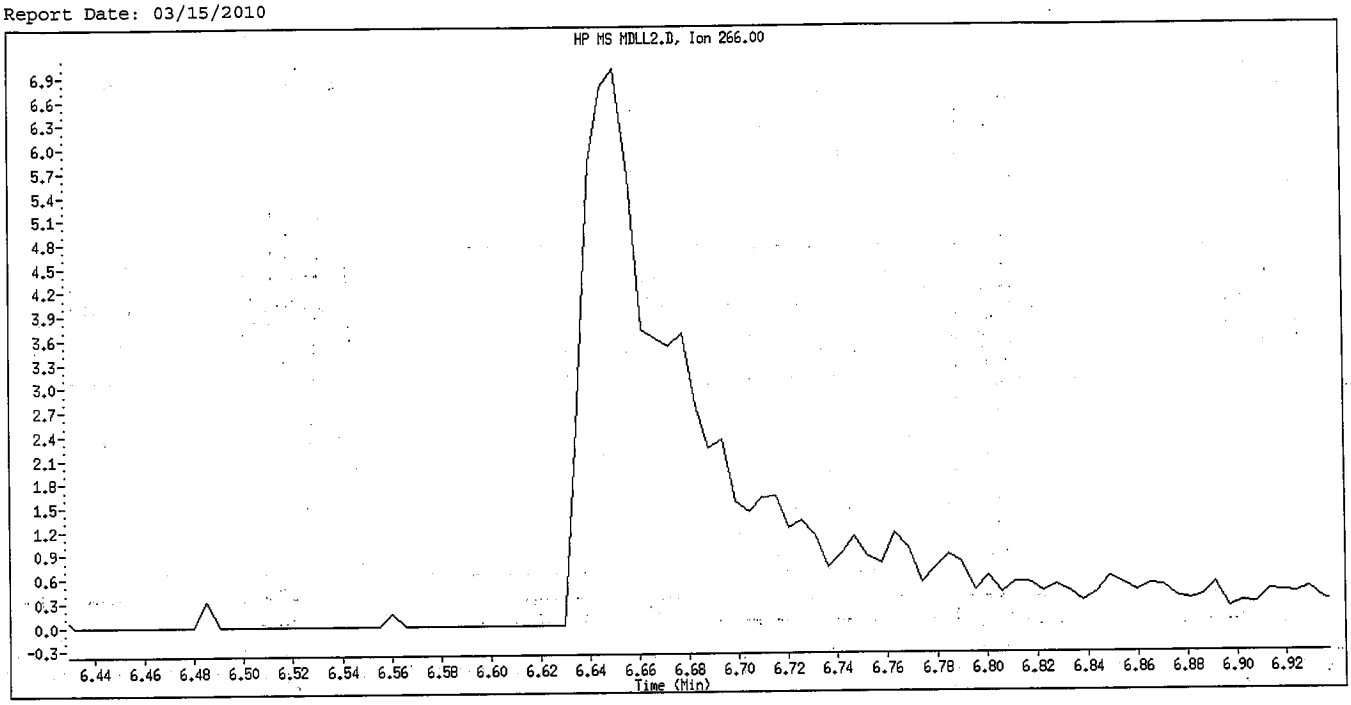
Client ID:
Compound Name: Pentachlorophenol
CAS #: 87-86-5
Report Date: 03/15/2010



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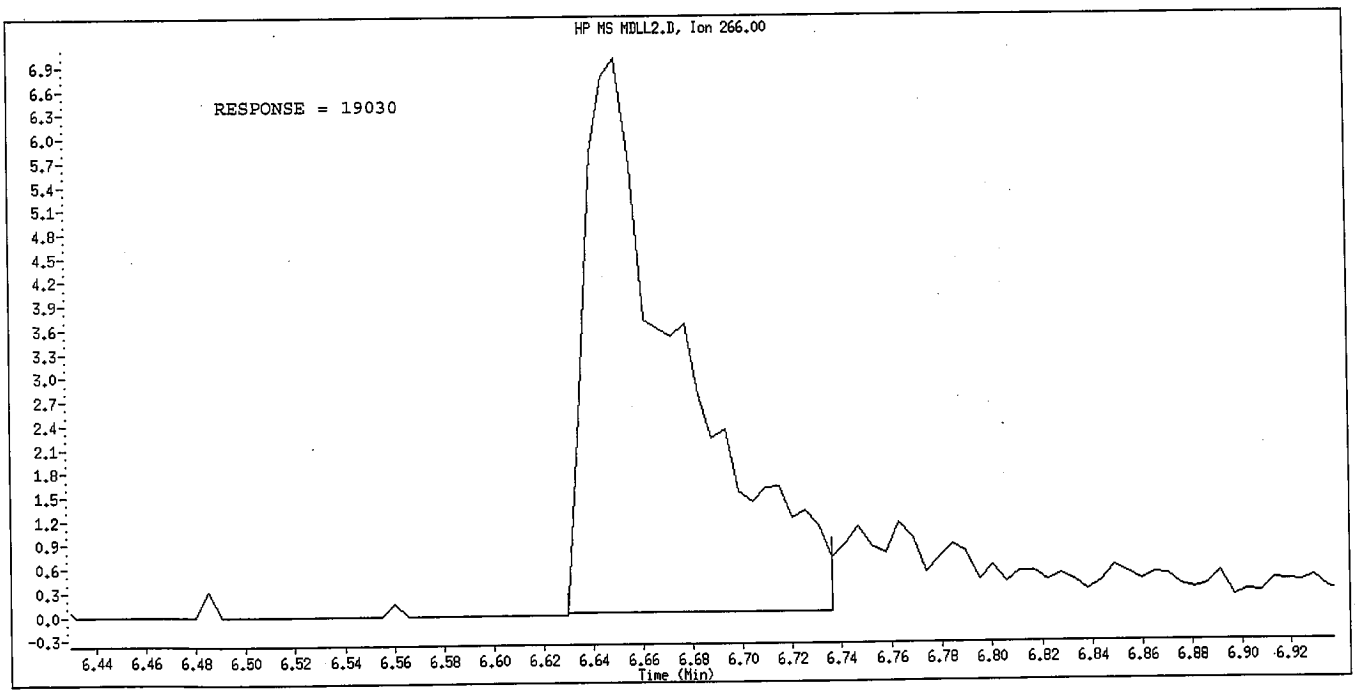

Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

okmw 3/17/10

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\MDLL3.D
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Smp Info : mdll3,00312a.b,8270c-625,1-827042d.sub
Misc Info :
Comment :
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Meth Date : 12-Mar-2010 13:03 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 23 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

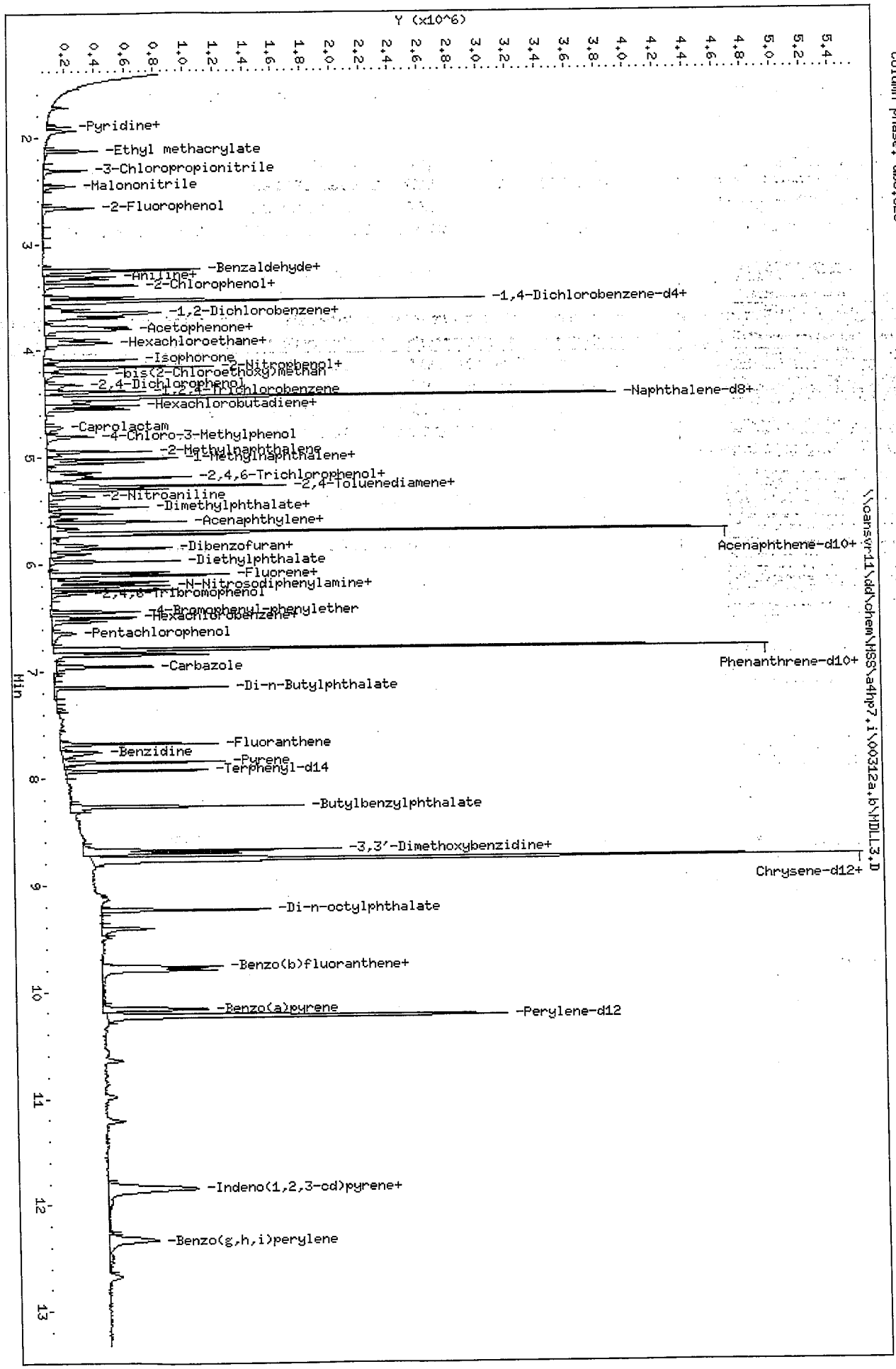
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	3.538	3.538	(1.000)	424675	2.00000		(Q)
* 2 Naphthalene-d8	136	4.436	4.431	(1.000)	1808889	2.00000		
* 3 Acenaphthene-d10	164	5.704	5.699	(1.000)	966961	2.00000		
* 4 Phenanthrene-d10	188	6.790	6.784	(1.000)	1567157	2.00000		
* 5 Chrysene-d12	240	8.758	8.747	(1.000)	1828427	2.00000		
* 6 Perylene-d12	264	10.229	10.207	(1.000)	1717056	2.00000		
9 Pyridine	79	1.939	1.928	(0.548)	83873	0.34604	0.34604	
10 N-Nitrosodimethylamine	74	1.901	1.901	(0.537)	69122	0.49021	0.49021	
11 Ethyl methacrylate	69	2.126	2.131	(0.601)	98476	0.46296	0.46296	
12 3-Chloropropionitrile	54	2.313	2.318	(0.654)	79033	0.49083	0.49083	
13 Malononitrile	66	2.457	2.463	(0.695)	152931	0.48553	0.48553	
209 Benzaldehyde	77	3.249	3.249	(0.918)	94237	0.55318	0.55318	
21 Aniline	93	3.313	3.313	(0.937)	191649	0.46686	0.46686	
22 Phenol	94	3.254	3.254	(0.920)	163480	0.48598	0.48598	
23 bis(2-Chloroethyl)ether	93	3.335	3.334	(0.943)	162469	0.57721	0.57720	
24 2-Chlorophenol	128	3.393	3.393	(0.959)	132151	0.48421	0.48421	
26 1,3-Dichlorobenzene	146	3.500	3.500	(0.989)	140457	0.50536	0.50536	
27 1,4-Dichlorobenzene	146	3.548	3.548	(1.003)	138015	0.50231	0.50231	
28 1,2-Dichlorobenzene	146	3.655	3.655	(1.033)	131125	0.49398	0.49398	
29 Benzyl Alcohol	108	3.613	3.613	(1.021)	76519	0.42697	0.42697	
30 2-Methylphenol	108	3.671	3.666	(1.038)	113370	0.45815	0.45815	
31 bis(2-Chloroisopropyl)ether	45	3.693	3.693	(1.044)	198208	0.49840	0.49840	
37 Acetophenone	105	3.805	3.805	(1.076)	172044	0.47809	0.47808	
32 N-Nitroso-di-n-propylamine	70	3.789	3.794	(1.071)	89701	0.46650	0.46650	
192 4-Methylphenol	108	3.773	3.773	(1.067)	112377	0.43329	0.43329	
34 Hexachloroethane	117	3.896	3.896	(1.101)	41932	0.40830	0.40830	
35 Nitrobenzene	77	3.934	3.934	(0.887)	131857	0.48842	0.48842	
41 Isophorone	82	4.089	4.089	(0.922)	251138	0.46484	0.46484	
42 2-Nitrophenol	139	4.153	4.153	(0.936)	58528	0.40502	0.40502	
43 2,4-Dimethylphenol	107	4.153	4.147	(0.936)	125746	0.46593	0.46593	
44 bis(2-Chloroethoxy)methane	93	4.222	4.217	(0.952)	150946	0.48008	0.48008	
46 2,4-Toluenediamene	121	5.265	5.255	(1.187)	68269	0.41360	0.41360	
47 1,3,5-Trichlorobenzene	180	4.158	4.158	(0.937)	115944	0.49875	0.49874	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48 2,4-Dichlorophenol	162	4.319	4.313	(0.973)	95363	0.45192	0.45192
49 Benzoic Acid	122	Compound Not Detected.					
50 1,2,4-Trichlorobenzene	180	4.383	4.383	(0.988)	114623	0.49815	0.49815
51 Naphthalene	128	4.447	4.447	(1.002)	418646	0.50053	0.50053
52 4-Chloroaniline	127	4.474	4.468	(1.008)	163889	0.45416	0.45416
56 Hexachlorobutadiene	225	4.517	4.517	(1.018)	59746	0.49805	0.49805
210 Caprolactam	113	4.720	4.736	(1.064)	35602	0.37209	0.37209
57 1,2,3-Trichlorobenzene	180	4.549	4.543	(1.025)	107008	0.49224	0.49224
59 4-Chloro-3-Methylphenol	107	4.800	4.789	(1.082)	111368	0.46866	0.46866
62 2-Methylnaphthalene	142	4.944	4.939	(1.115)	222025	0.48761	0.48761
63 1-Methylnaphthalene	142	5.014	5.014	(1.130)	263199	0.50269	0.50269
64 Hexachlorocyclopentadiene	237	5.046	5.041	(0.885)	9423	0.19415	0.19415
66 2,4,6-Trichlorophenol	196	5.137	5.132	(0.901)	60990	0.42344	0.42344
67 2,4,5-Trichlorophenol	196	5.169	5.158	(0.906)	80537	0.52057	0.52057
211 1,1'-Biphenyl	154	5.271	5.271	(0.924)	323015	0.48981	0.48980
68 1,2,3,5-Tetrachlorobenzene	216	5.046	5.046	(0.885)	106366	0.48285	0.48284
70 2-Chloronaphthalene	162	5.297	5.297	(0.929)	242025	0.49406	0.49406
73 2-Nitroaniline	65	5.362	5.356	(0.940)	71187	0.49514	0.49514
74 1,2,3,4-Tetrachlorobenzene	216	5.265	5.265	(0.923)	98586	0.48401	0.48401
76 Dimethylphthalate	163	5.469	5.469	(0.959)	284854	0.50578	0.50578
78 2,6-Dinitrotoluene	165	5.522	5.522	(0.968)	59163	0.47082	0.47082
79 Acenaphthylene	152	5.602	5.602	(0.982)	405569	0.50388	0.50388
80 1,2-Dinitrobenzene	168	5.570	5.570	(0.977)	28120	0.44926	0.44926
81 3-Nitroaniline	138	5.661	5.650	(0.993)	66756	0.47498	0.47498
82 Acenaphthene	153	5.725	5.725	(1.004)	257482	0.49739	0.49739
83 2,4-Dinitrophenol	184	5.768	5.725	(1.011)	5961	1.07380	1.0738(QM)
85 4-Nitrophenol	109	5.773	5.747	(1.012)	17899	0.26237	0.26237(QM)
86 Dibenzofuran	168	5.848	5.848	(1.025)	349763	0.50295	0.50295
87 2,4-Dinitrotoluene	165	5.822	5.816	(1.021)	75698	0.44061	0.44061
91 2,3,5,6-Tetrachlorophenol	232	5.902	5.891	(1.035)	57478	0.44196	0.44196
93 Diethylphthalate	149	5.971	5.971	(1.047)	289472	0.50147	0.50147
94 Fluorene	166	6.100	6.100	(1.069)	295706	0.50040	0.50040
95 4-Chlorophenyl-phenylether	204	6.078	6.078	(1.066)	132836	0.50466	0.50466
96 4-Nitroaniline	138	6.105	6.100	(1.070)	70401	0.47763	0.47763
98 4,6-Dinitro-2-methylphenol	198	6.132	6.116	(0.903)	9652	0.46564	0.46564(QM)
99 N-Nitrosodiphenylamine	169	6.164	6.164	(0.908)	214449	0.51038	0.51038
100 1,2-Diphenylhydrazine	77	6.196	6.196	(0.913)	284865	0.49651	0.49651
106 4-Bromophenyl-phenylether	248	6.442	6.437	(0.949)	74211	0.49209	0.49209
107 Hexachlorobenzene	284	6.501	6.496	(0.957)	72290	0.48753	0.48753
212 Atrazine	200	6.533	6.528	(0.962)	51980	0.49676	0.49676
111 Pentachlorophenol	266	6.640	6.635	(0.978)	36084	0.54046	0.54046
115 Phenanthrene	178	6.806	6.806	(1.002)	420596	0.49405	0.49404
116 Anthracene	178	6.843	6.843	(1.008)	430980	0.50259	0.50259
119 Carbazole	167	6.956	6.945	(1.024)	394332	0.49274	0.49274
120 Di-n-Butylphthalate	149	7.153	7.153	(1.054)	499361	0.51413	0.51413
123 Fluoranthene	202	7.678	7.672	(1.131)	432718	0.49601	0.49601
124 Benzidine	184	7.758	7.747	(0.886)	189322	0.36415	0.36415
125 Pyrene	202	7.854	7.849	(0.897)	470052	0.49866	0.49866
131 Butylbenzylphthalate	149	8.266	8.255	(0.944)	222993	0.50595	0.50595
133 3,3'-Dimethoxybenzidine	244	8.667	8.651	(0.990)	82505	0.43207	0.43207
135 3,3'-Dichlorobenzidine	252	8.705	8.688	(0.994)	156049	0.47361	0.47361
136 Benzo(a)Anthracene	228	8.753	8.737	(0.999)	473346	0.52305	0.52305
137 Chrysene	228	8.779	8.769	(1.002)	439991	0.51524	0.51524
138 4,4'-Methylene bis(o-chloroan	231	8.699	8.688	(0.993)	78496	0.45459	0.45459

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.678	8.662	(0.991)	338092	0.53826	0.53826
140 Di-n-octylphthalate	149	9.234	9.223	(0.903)	544660	0.50567	0.50567
141 Benzo(b)fluoranthene	252	9.769	9.753	(0.955)	439185	0.49763	0.49763
142 Benzo(k)fluoranthene	252	9.801	9.785	(0.958)	460468	0.49033	0.49033
146 Benzo(a)pyrene	252	10.159	10.143	(0.993)	413358	0.48789	0.48789
149 Indeno(1,2,3-cd)pyrene	276	11.833	11.812	(1.157)	467916	0.49420	0.49420
150 Dibenz(a,h)anthrácene	278	11.850	11.828	(1.158)	401724	0.50402	0.50402
151 Benzo(g,h,i)perylene	276	12.331	12.304	(1.205)	388028	0.49114	0.49114
198 1,4-Dioxane	88	1.725	1.725	(0.488)	36301	0.39701	0.39701
101 Diphenylamine	169	6.164	6.164	(0.908)	214449	0.51038	0.51038

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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Client ID:
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Column phase: db5,625

Instrument: a4hp7,i
Operator: 001710
Column diameter: 0,32

Data File Name: MDLL3.D
Inj. Date and Time: 12-MAR-2010 16:36
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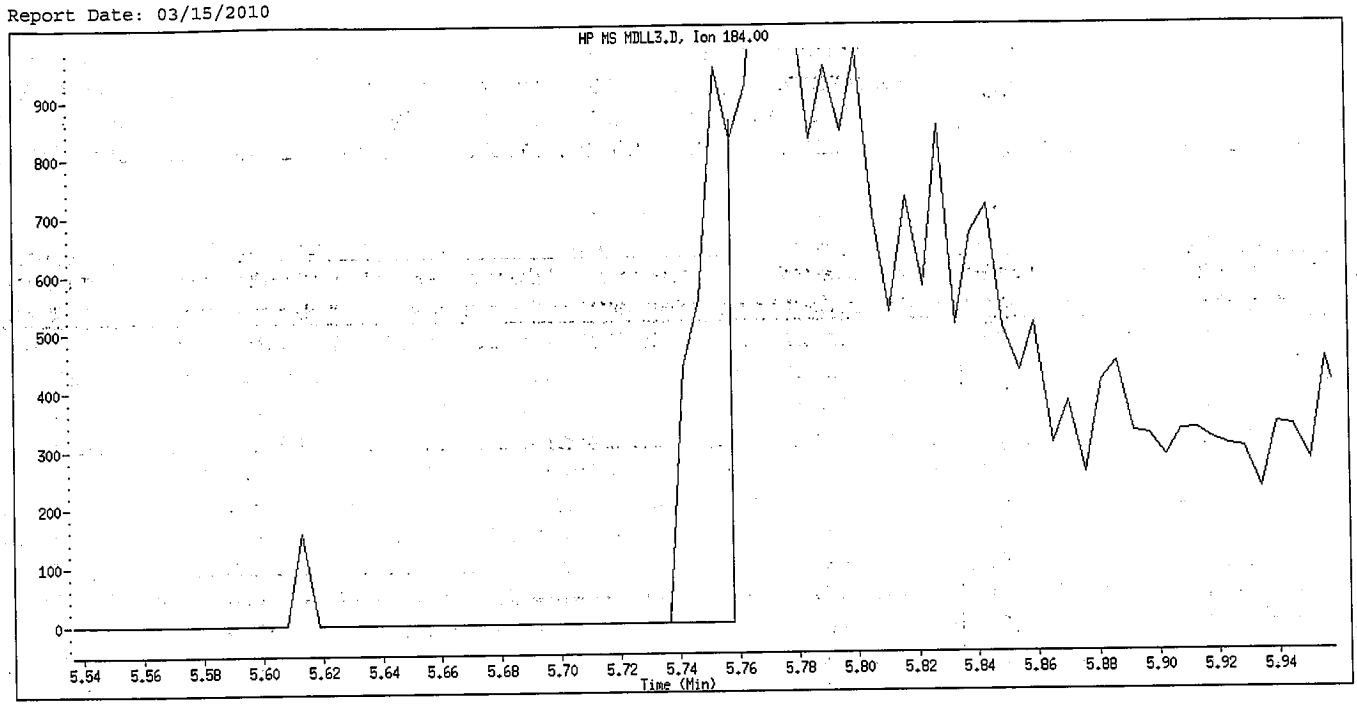
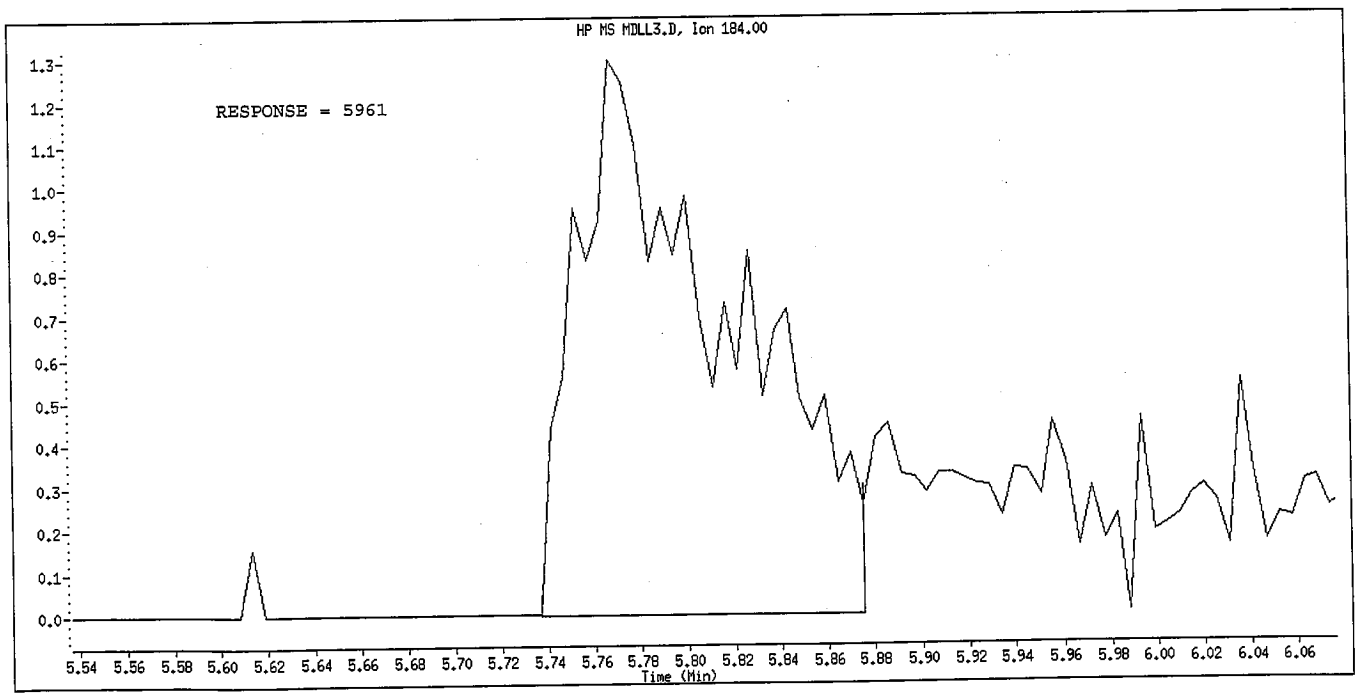
Client ID:
Compound Name: 2,4-Dinitrophenol
CAS #: 51-28-5
Report Date: 03/15/2010



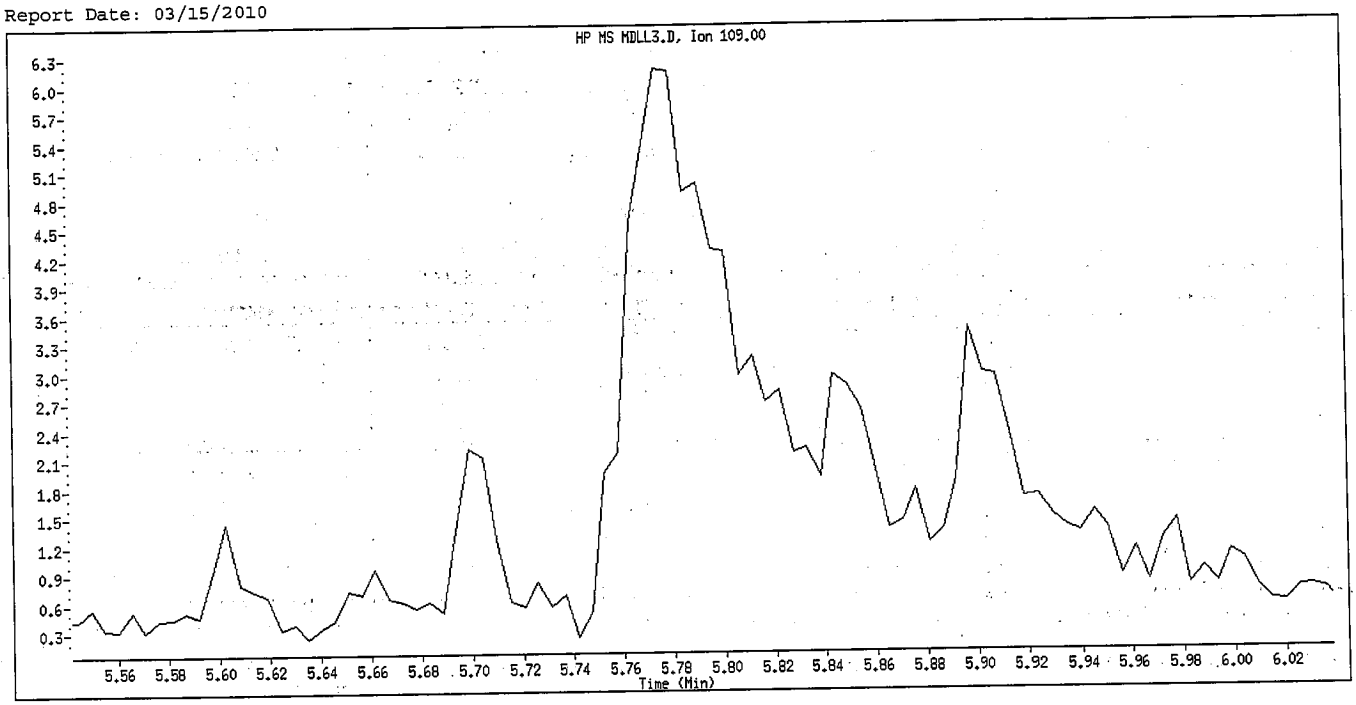
Original Integration



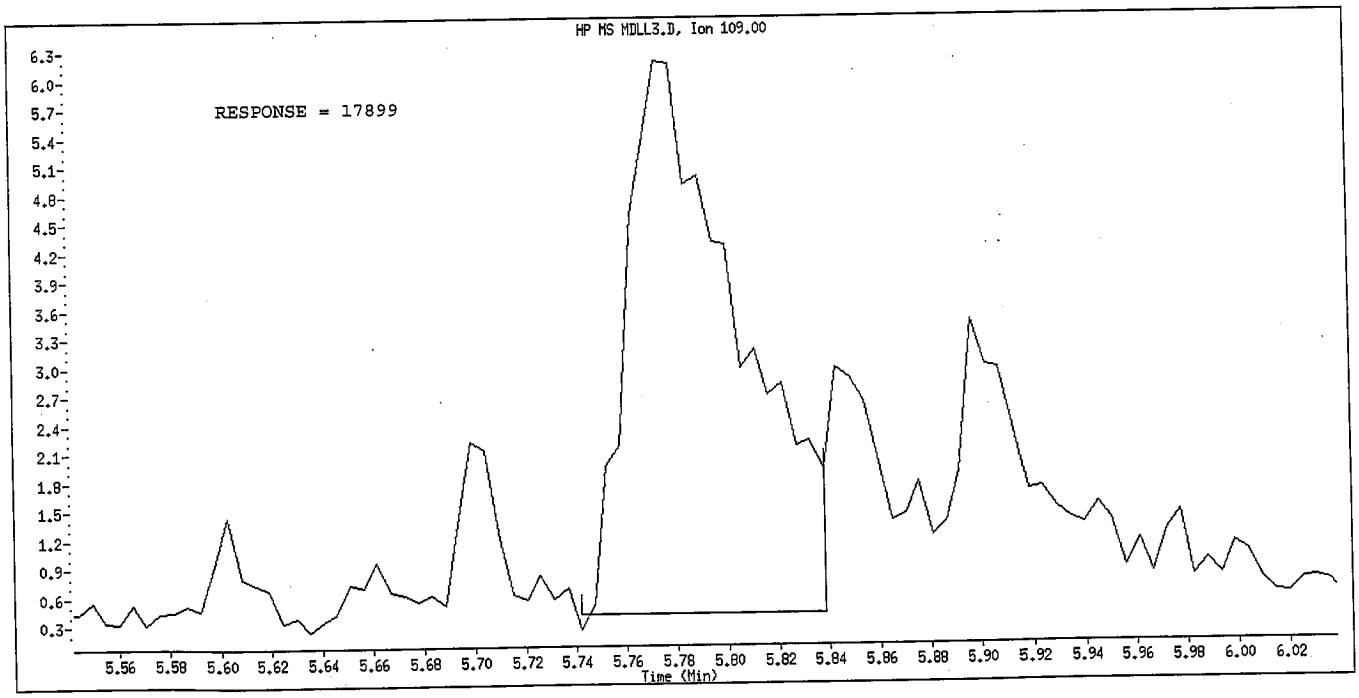
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Poor Chromatography

Data File Name: MDLL3.D
Inj. Date and Time: 12-MAR-2010 16:36
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/15/2010



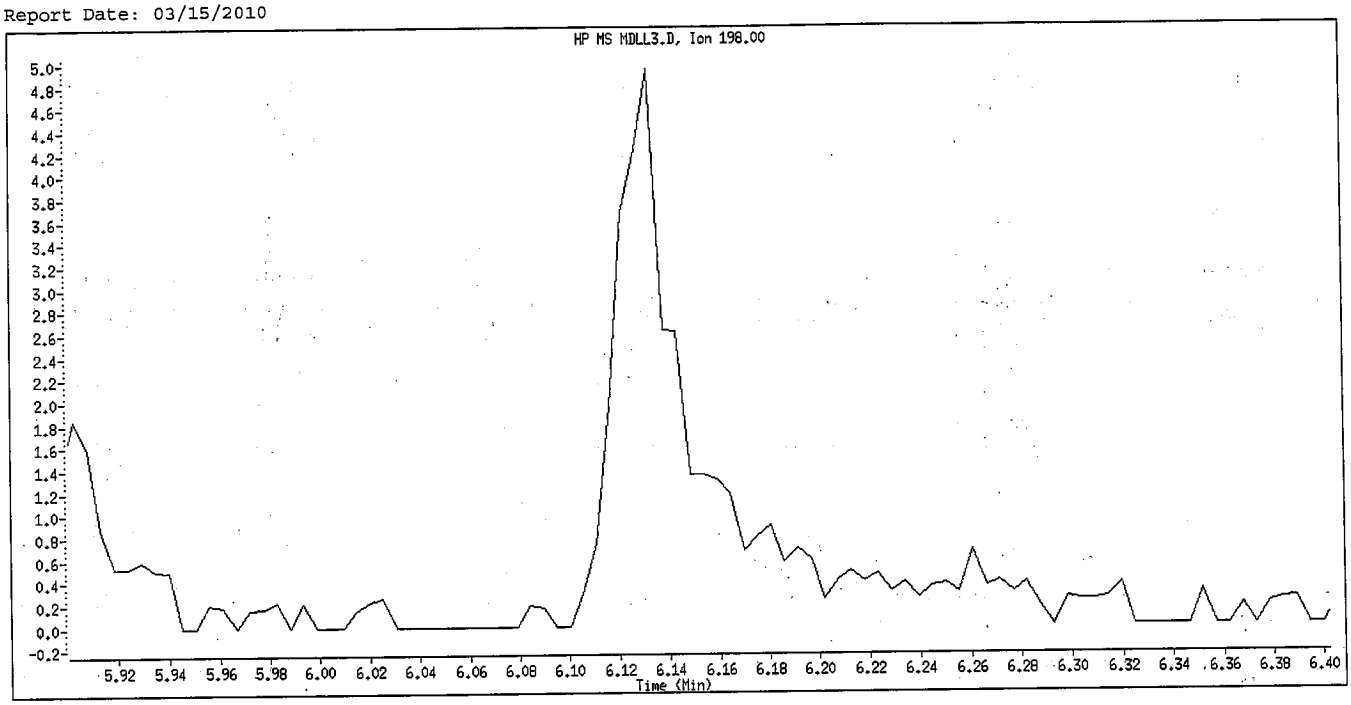
Original Integration



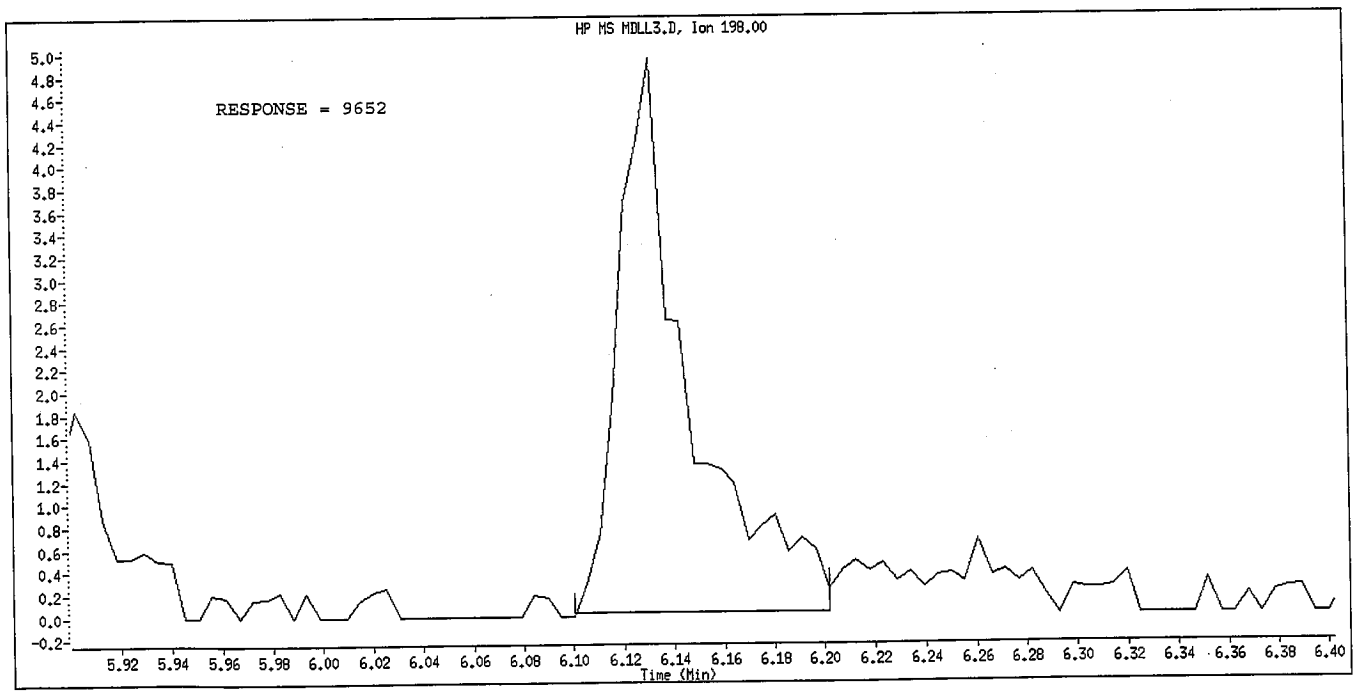
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: MDLL3.D
Inj. Date and Time: 12-MAR-2010 16:36
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4,6-Dinitro-2-methylphenol
CAS #: 534-52-1
Report Date: 03/15/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\7QMDLL1.D
Lab Smp Id: l1
Inj Date : 01-MAR-2010 16:41
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l1,00301a.b,8270C-625,pah.sub,1,,1
Misc Info :
Comment :
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Meth Date : 02-Mar-2010 10:20 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 6 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

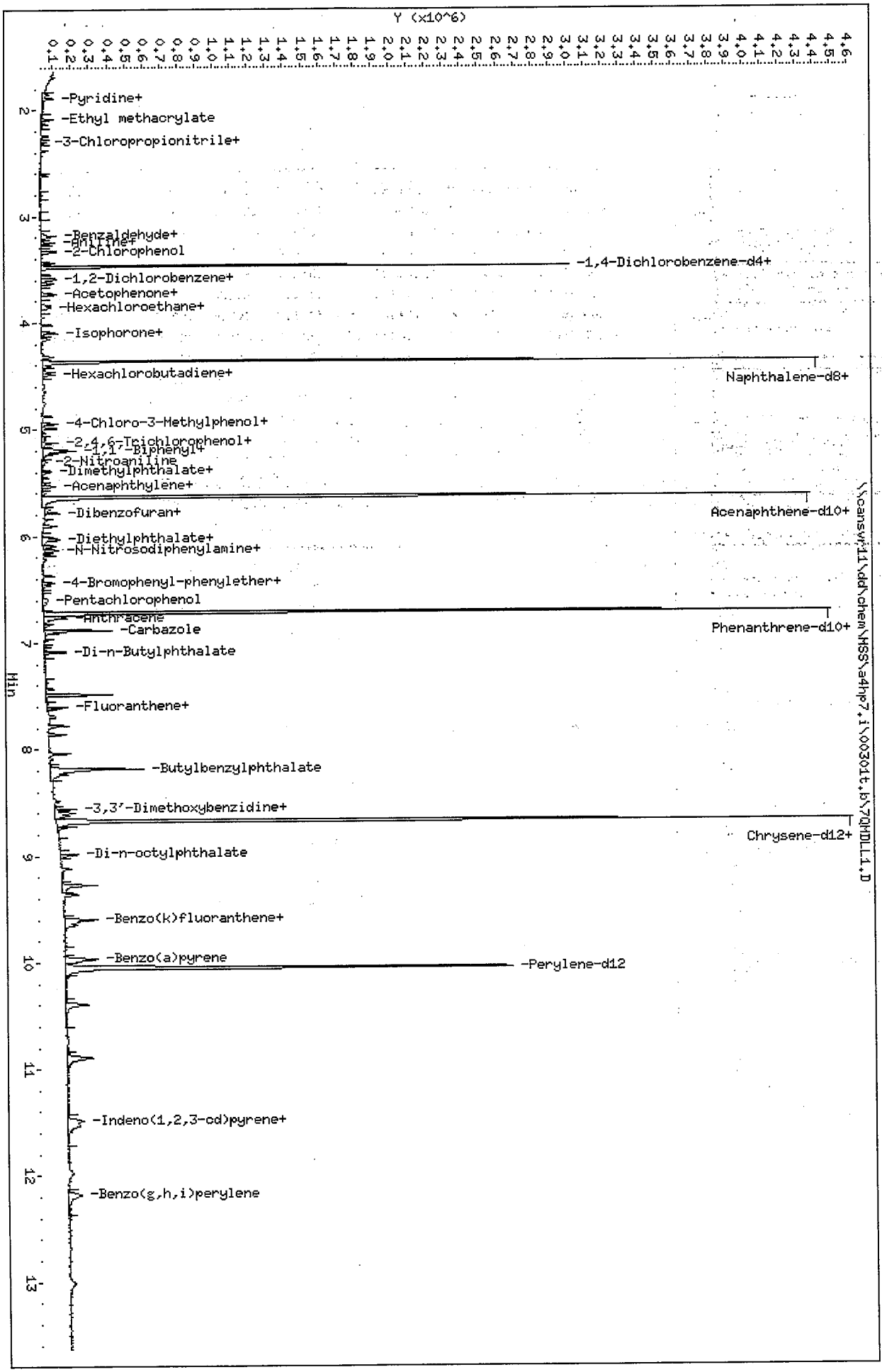
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.476	3.471	(1.000)	355427	2.00000	
* 2	Naphthalene-d8	136	4.364	4.364	(1.000)	1417789	2.00000	
* 3	Acenaphthene-d10	164	5.632	5.632	(1.000)	749080	2.00000	
* 4	Phenanthrene-d10	188	6.718	6.717	(1.000)	1164247	2.00000	
* 5	Chrysene-d12	240	8.670	8.659	(1.000)	1347595	2.00000	
* 6	Perylene-d12	264	10.050	10.028	(1.000)	1208933	2.00000	
9	Pyridine	79	1.888	1.882	(0.543)	11594	0.05077	0.050774
10	N-Nitrosodimethylamine	74	1.850	1.850	(0.532)	6571	0.04987	0.049873(M)
11	Ethyl methacrylate	69	2.086	2.086	(0.600)	10075	0.05053	0.050532
12	3-Chloropropionitrile	54	2.246	2.246	(0.646)	8865	0.05703	0.057026
13	Malononitrile	66	2.380	2.385	(0.685)	14169	0.04817	0.048166
209	Benzaldehyde	77	3.182	3.182	(0.915)	8930	0.07935	0.079352
21	Aniline	93	3.246	3.252	(0.934)	17531	0.04824	0.048238
22	Phenol	94	3.198	3.193	(0.920)	11302	0.03949	0.039488
23	bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	12923	0.05115	0.051155
24	2-Chlorophenol	128	3.337	3.337	(0.960)	10081	0.04422	0.044215
26	1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	11802	0.04974	0.049739
27	1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	11814	0.05067	0.050665
28	1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	11212	0.04944	0.049438
29	Benzyl Alcohol	108	3.546	3.546	(1.020)	6387	0.04264	0.042641
30	2-Methylphenol	108	3.610	3.610	(1.038)	6241	0.03140	0.031401
31	bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	21117	0.05285	0.052847
37	Acetophenone	105	3.733	3.738	(1.074)	16311	0.05165	0.051649
32	N-Nitroso-di-n-propylamine	70	3.722	3.728	(1.071)	7536	0.04342	0.043425(QM)
192	4-Methylphenol	108	3.712	3.712	(1.068)	3110	0.13380	0.13380
34	Hexachloroethane	117	3.835	3.835	(1.103)	5025	0.05418	0.054175
35	Nitrobenzene	77	3.861	3.861	(0.885)	11319	0.04844	0.048443
41	Isophorone	82	4.022	4.022	(0.922)	18299	0.04202	0.042020
42	2-Nitrophenol	139	4.086	4.086	(0.936)	5394	0.04643	0.046426
43	2,4-Dimethylphenol	107	4.102	4.086	(0.940)	4077	0.13462	0.13462(Q)
44	bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.951)	11863	0.04591	0.045910
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	4.097	4.097	(0.939)	9121	0.05021	0.050212
48	2,4-Dichlorophenol	162	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
49 Benzoic Acid	122	Compound Not Detected.					
50 1,2,4-Trichlorobenzene	180	4.321	4.321	(0.990)	8940	0.05031	0.050311
51 Naphthalene	128	4.380	4.380	(1.004)	32455	0.05148	0.051477
52 4-Chloroaniline	127	4.407	4.402	(1.010)	6229	0.02672	0.026721
56 Hexachlorobutadiene	225	4.460	4.461	(1.022)	4625	0.05009	0.050088
210 Caprolactam	113	4.642	4.658	(1.064)	2557	0.03552	0.035522(Q)
57 1,2,3-Trichlorobenzene	180	4.482	4.482	(1.027)	7913	0.04804	0.048038
59 4-Chloro-3-Methylphenol	107	4.755	4.728	(1.089)	8225	0.04511	0.045109
62 2-Methylnaphthalene	142	4.878	4.872	(1.118)	14081	0.04131	0.041306
63 1-Methylnaphthalene	142	4.947	4.947	(1.134)	19049	0.04779	0.047795
64 Hexachlorocyclopentadiene	237	4.990	4.990	(0.886)	3869	0.03647	0.036471
66 2,4,6-Trichlorophenol	196	5.076	5.070	(0.901)	3966	0.03690	0.036895
67 2,4,5-Trichlorophenol	196	5.129	5.097	(0.911)	5548	0.04605	0.046051(M)
211 1,1'-Biphenyl	154	5.204	5.204	(0.924)	22519	0.04334	0.043340
68 1,2,3,5-Tetrachlorobenzene	216	4.985	4.985	(0.885)	8704	0.05094	0.050939
70 2-Chloronaphthalene	162	5.231	5.231	(0.929)	18117	0.04826	0.048262
73 2-Nitroaniline	65	5.300	5.290	(0.941)	4869	0.03719	0.037189
74 1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.924)	7008	0.04528	0.045283
76 Dimethylphthalate	163	5.396	5.402	(0.958)	20886	0.04786	0.047859
78 2,6-Dinitrotoluene	165	5.450	5.450	(0.968)	4686	0.04636	0.046361
79 Acenaphthylene	152	5.536	5.536	(0.983)	29206	0.04705	0.047048
80 1,2-Dinitrobenzene	168	5.503	5.498	(0.977)	1875	0.03758	0.037577(Q)
81 3-Nitroaniline	138	Compound Not Detected.					
82 Acenaphthene	153	5.659	5.659	(1.005)	21727	0.05279	0.052793(Q)
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	Compound Not Detected.					
86 Dibenzofuran	168	5.782	5.782	(1.027)	25649	0.04756	0.047562
87 2,4-Dinitrotoluene	165	5.750	5.750	(1.021)	4219	0.03033	0.030330
91 2,3,5,6-Tetrachlorophenol	232	5.846	5.835	(1.038)	3379	0.03299	0.032988
93 Diethylphthalate	149	5.905	5.905	(1.048)	23498	0.05148	0.051478
94 Fluorene	166	6.033	6.033	(1.071)	22444	0.04841	0.048410
95 4-Chlorophenyl-phenylether	204	6.012	6.012	(1.067)	9963	0.04860	0.048597
96 4-Nitroaniline	138	6.049	6.028	(1.074)	4616	0.03820	0.038203
98 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99 N-Nitrosodiphenylamine	169	6.097	6.097	(0.908)	14225	0.04377	0.043769
100 1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	25057	0.05149	0.051486
106 4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	6004	0.05230	0.052305
107 Hexachlorobenzene	284	6.439	6.440	(0.959)	5859	0.05265	0.052653
212 Atrazine	200	6.461	6.461	(0.962)	3576	0.04877	0.048770
111 Pentachlorophenol	266	6.595	6.573	(0.982)	4683	0.39669	0.39669(M)
115 Phenanthrene	178	6.734	6.739	(1.002)	33577	0.05338	0.053383
116 Anthracene	178	6.771	6.776	(1.008)	33597	0.05304	0.053035
119 Carbazole	167	6.883	6.878	(1.025)	30680	0.05064	0.050640
120 Di-n-Butylphthalate	149	7.087	7.087	(1.055)	52239	0.07504	0.075041
123 Fluoranthene	202	7.605	7.606	(1.132)	34385	0.05397	0.053971
124 Benzidine	184	7.686	7.675	(0.886)	8872	0.02351	0.023507
125 Pyrene	202	7.777	7.777	(0.897)	33001	0.04974	0.049741
131 Butylbenzylphthalate	149	8.188	8.189	(0.944)	17130	0.05258	0.052577
133 3,3'-Dimethoxybenzidine	244	8.590	8.584	(0.991)	3102	0.02254	0.022540
135 3,3'-Dichlorobenzidine	252	8.627	8.622	(0.995)	9118	0.03767	0.037675
136 Benzo(a)Anthracene	228	8.665	8.665	(0.999)	37618	0.05655	0.056550
137 Chrysene	228	8.691	8.697	(1.002)	31287	0.05059	0.050590
138 4,4'-Methylene bis(o-chloroan	231	8.616	8.611	(0.994)	5213	0.04165	0.041647
139 bis(2-ethylhexyl)Phthalate	149	8.600	8.595	(0.992)	23866	0.05148	0.051479

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
140 Di-n-octylphthalate	149	9.119	9.114	(0.907)	29296	0.04036	0.040356
141 Benzo(b)fluoranthene	252	9.622	9.622	(0.957)	27067	0.04444	0.044440(H)
142 Benzo(k)fluoranthene	252	9.649	9.654	(0.960)	34914	0.05188	0.051875
146 Benzo(a)pyrene	252	9.986	9.986	(0.994)	28234	0.04852	0.048520
149 Indeno(1,2,3-cd)pyrene	276	11.521	11.531	(1.146)	28837	0.04446	0.044460
150 Dibenz(a,h)anthracene	278	11.526	11.537	(1.147)	22956	0.04247	0.042468
151 Benzo(g,h,i)perylene	276	11.970	11.981	(1.191)	23891	0.04508	0.045078
198 1,4-Dioxane	88	1.690	1.690	(0.486)	4843	0.05637	0.056365
101 Diphenylamine	169	6.097	6.097	(0.908)	14225	0.04377	0.043769

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.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Column phase: db5,625
Instrument: a4hp7,i
Operator: 001710
Column diameter: 0.32
\\cansvr11\dd\chem\MSS\a4hp7,i\003011,b\7QHDLL1.D
Y (x10^6)
Min
-Pyridine+
-Ethyl methacrylate
-3-Chloropropionitrile+
-Benzaldehyde+
-Aniline+
-2-Chlorophenol
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone+
-Hexachlorobutadiene+
Naphthalene-d8+
-4-Chloro-3-Methylphenol+
-2,4,6-Trichlorophenol+
-1,1'-Biphenyl+
-2-Nitroaniline
-Dimethylphthalate+
-Acenaphthylene+
-Dibenzofuran+
Acenaphthene-d10+
-Diethylphthalate+
-N-Nitrosodiphenylamine+
-4-Bromophenyl-phenylether+
-Pentachlorophenol
-Anthracene
-Carbazole
Phenanthrene-d10+
-Di-n-Butylphthalate
-Fluoranthene+
-Butylbenzylphthalate
-3,3'-Dimethoxybenzidine+
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(k)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene

Page 1

Data File Name: 7QMDLL1.D
Inj. Date and Time: 01-MAR-2010 16:41
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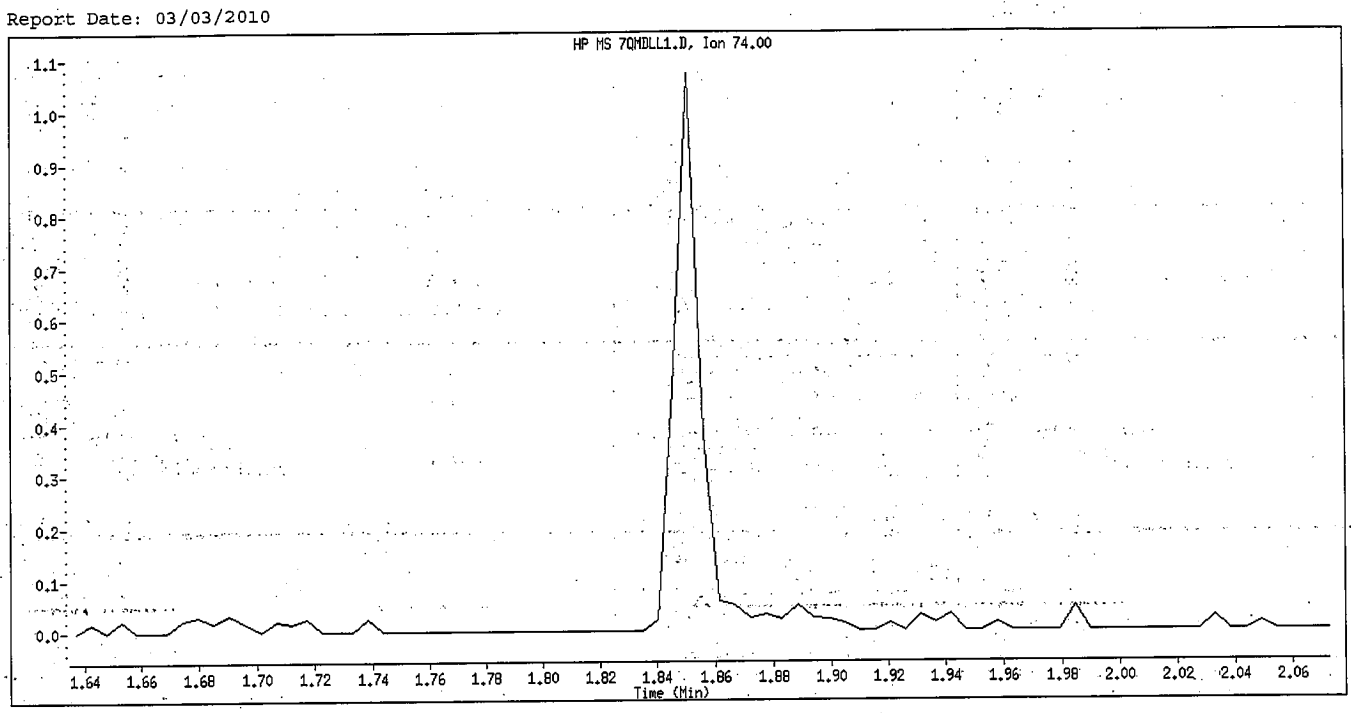
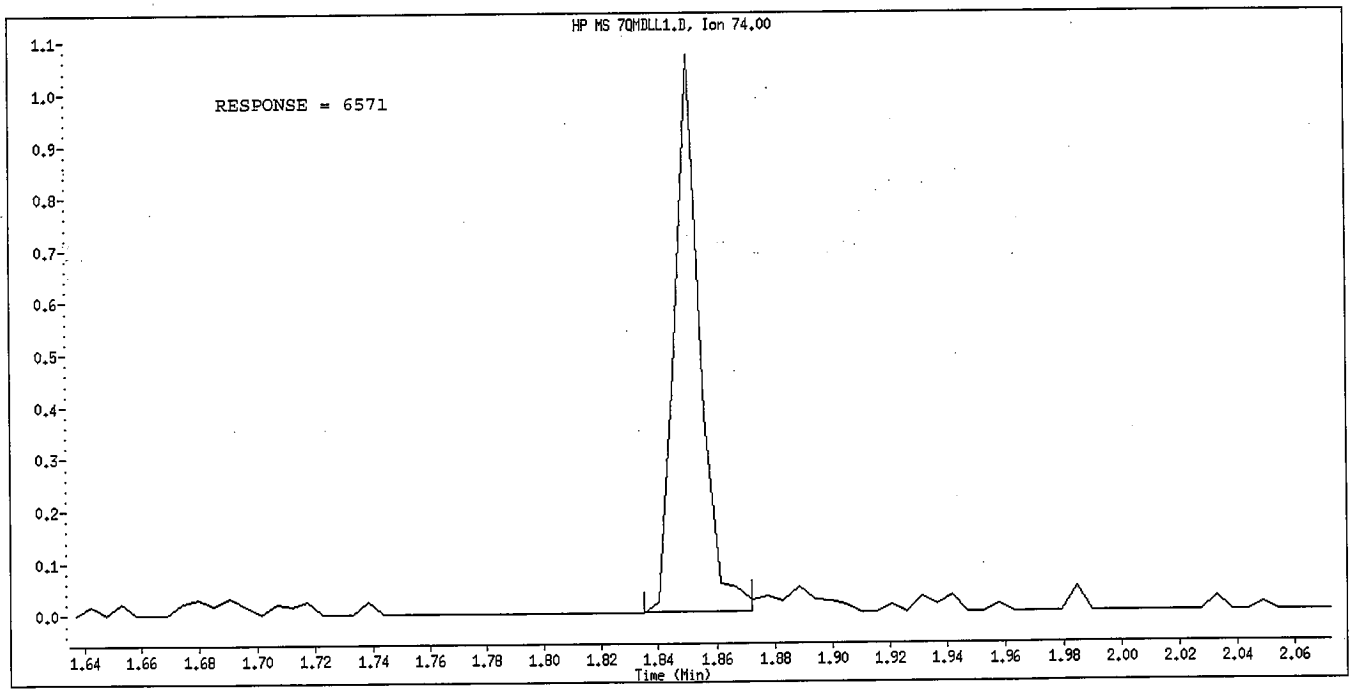
Client ID:
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

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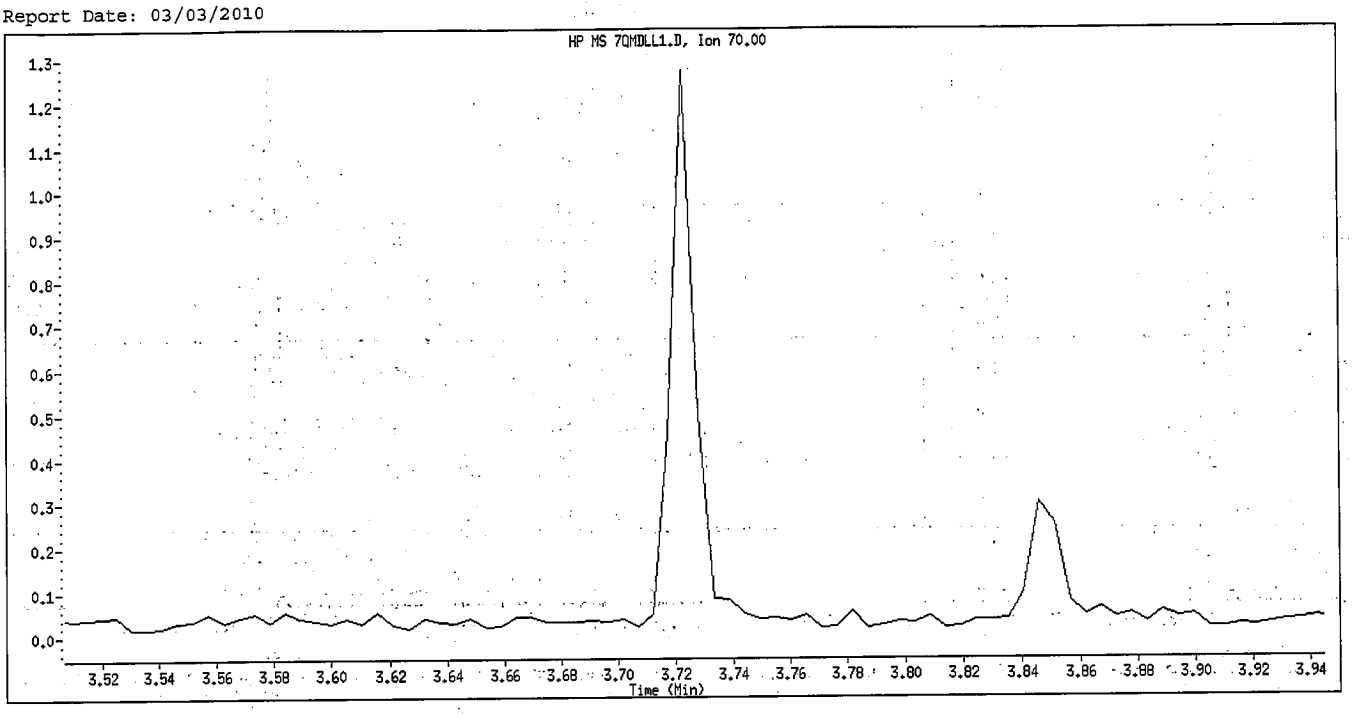
Instrument ID: a4hp7.i
Client ID:
Compound Name: N-Nitroso-di-n-propylamine
CAS #: 621-64-7
Report Date: 03/03/2010



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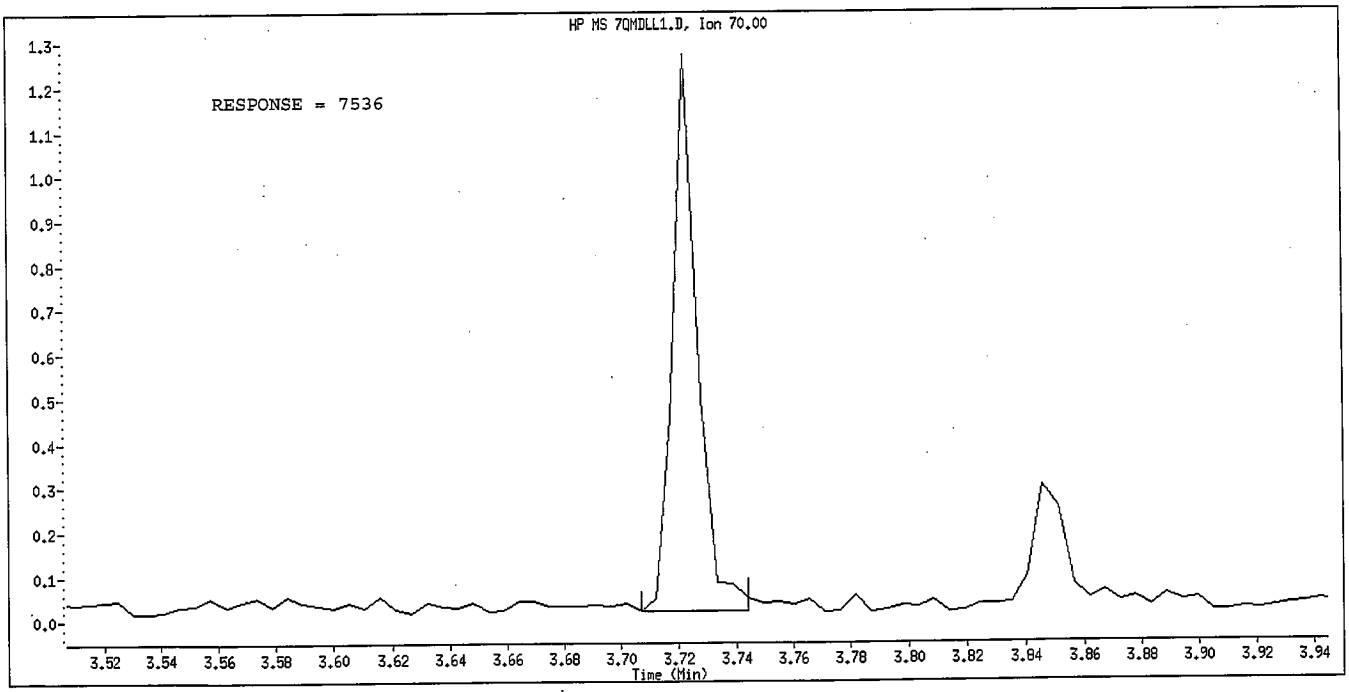
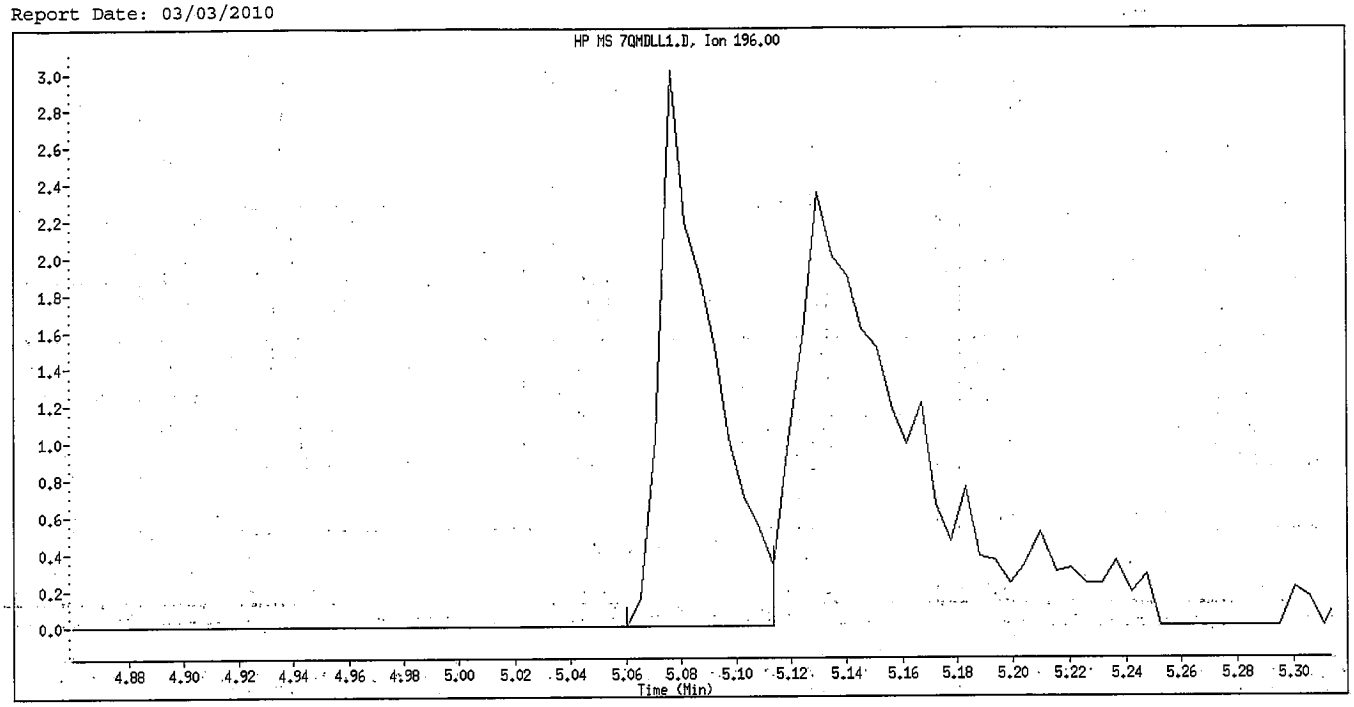


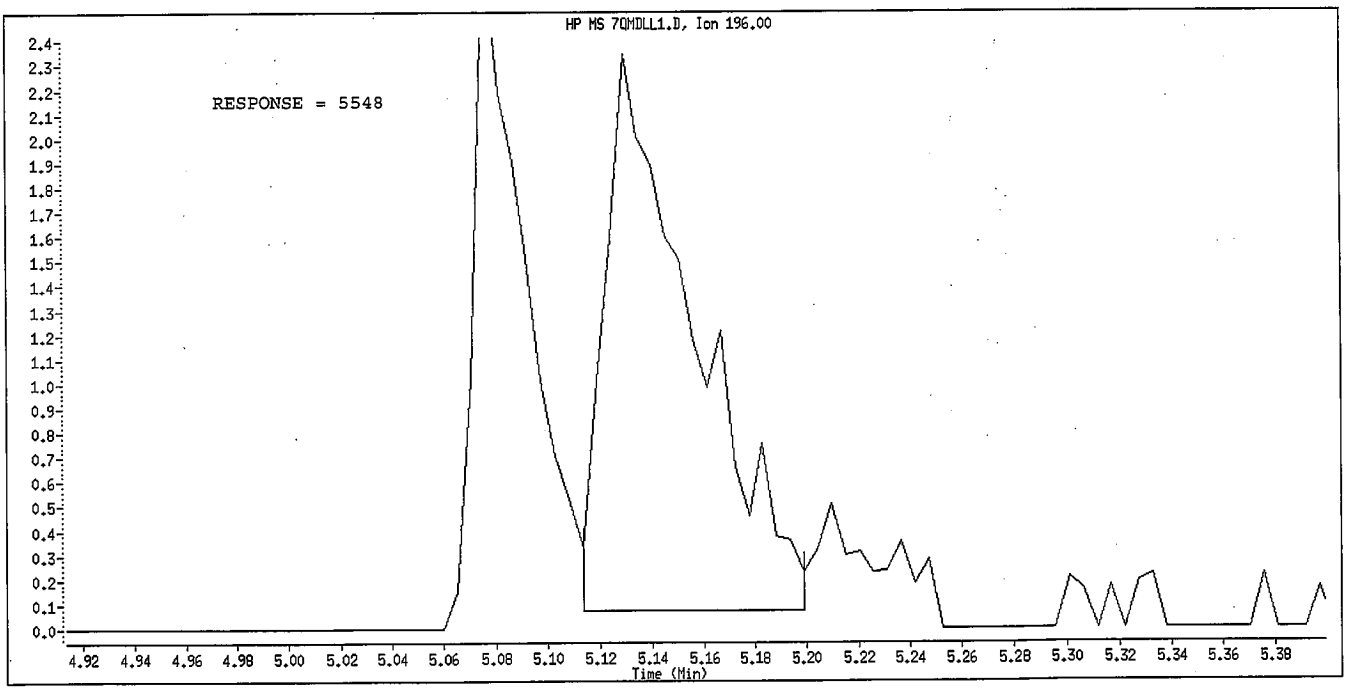
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 7QMDLL1.D
Inj. Date and Time: 01-MAR-2010 16:41
Instrument ID: a4hp7.i
Client ID:
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

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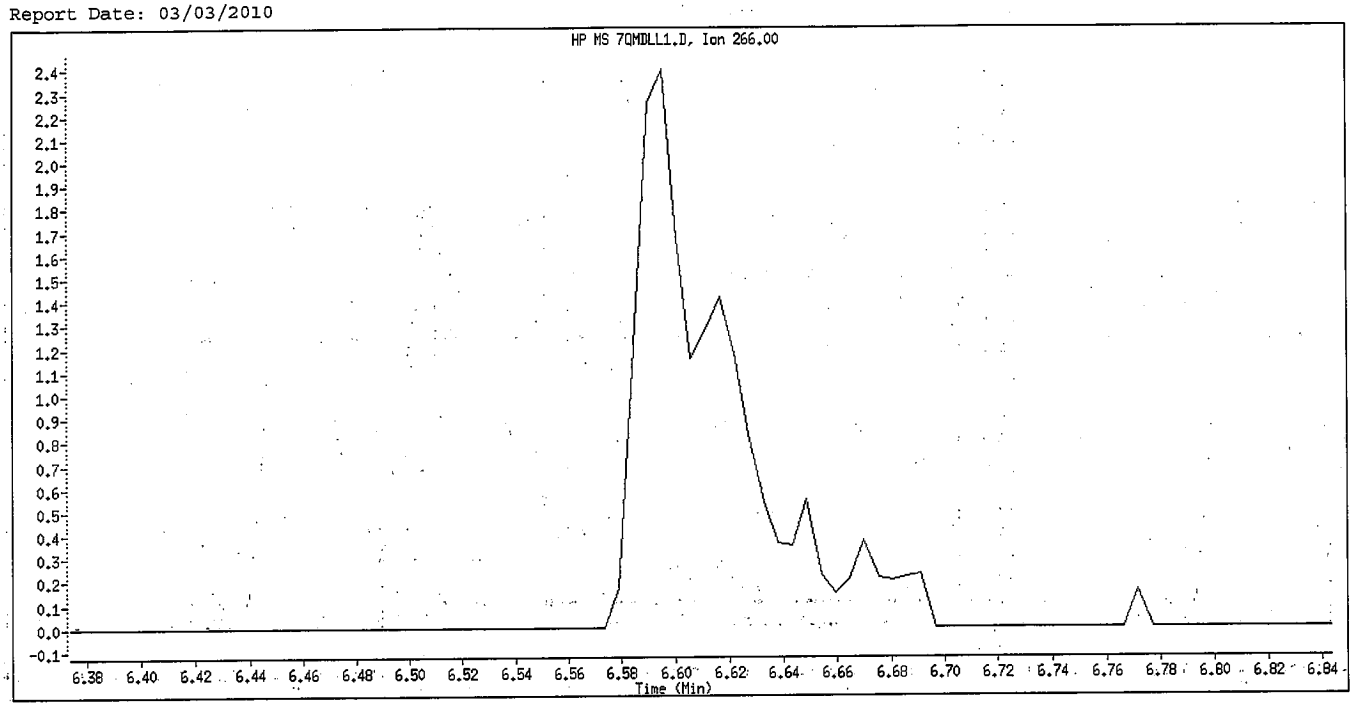
Instrument ID: a4hp7.i
Client ID:
Compound Name: Pentachlorophenol
CAS #: 87-86-5
Report Date: 03/03/2010



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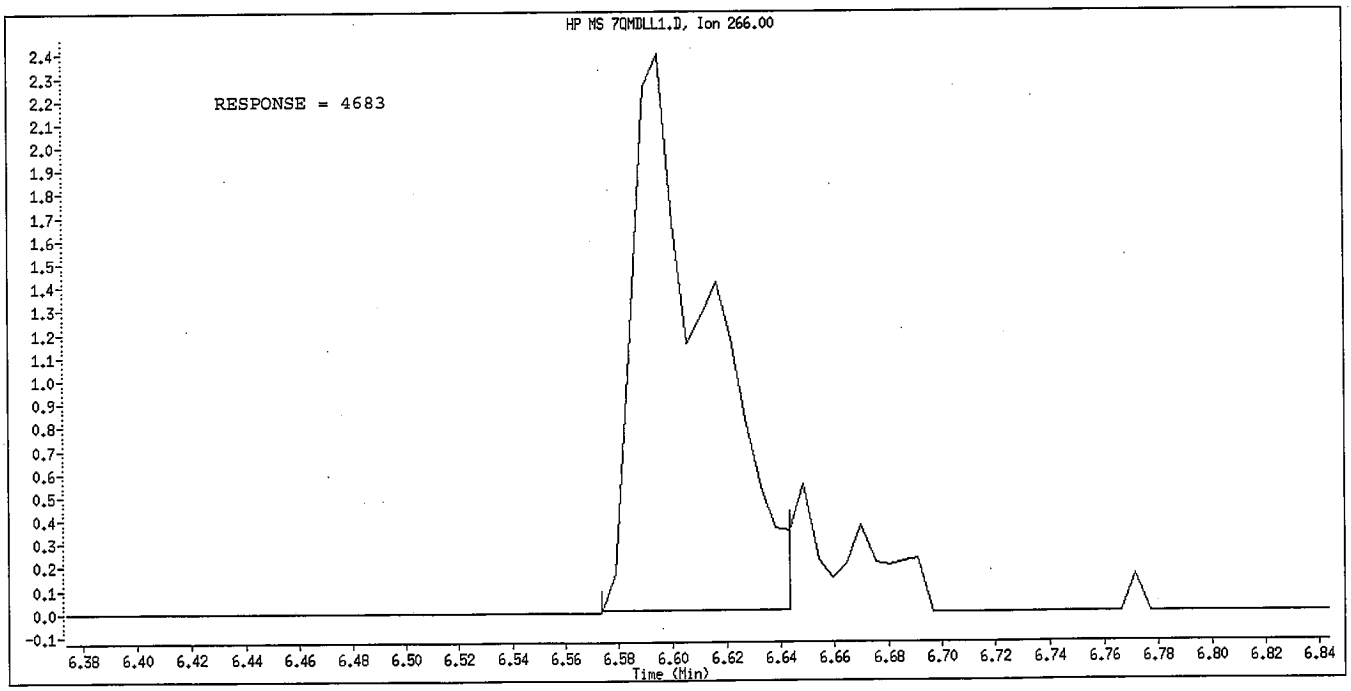

Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\7QMDLL2.D
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Operator : 001710 Inst ID: a4hp7.i
Smp Info : l2,00301a.b,8270C-625,1-827042d.sub,1,,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\8270C-625.m
Meth Date : 02-Mar-2010 10:20 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 5 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.476	3.471	(1.000)	349142	2.00000	
* 2	Naphthalene-d8	136	4.364	4.364	(1.000)	1404682	2.00000	
* 3	Acenaphthene-d10	164	5.632	5.632	(1.000)	722162	2.00000	
* 4	Phenanthrene-d10	188	6.717	6.717	(1.000)	1164406	2.00000	
* 5	Chrysene-d12	240	8.670	8.659	(1.000)	1311733	2.00000	
* 6	Perylene-d12	264	10.050	10.028	(1.000)	1192520	2.00000	
9	Pyridine	79	1.882	1.882	(0.542)	56670	0.25264	0.25264
10	N-Nitrosodimethylamine	74	1.850	1.850	(0.532)	33845	0.26150	0.26150
11	Ethyl methacrylate	69	2.085	2.086	(0.600)	50318	0.25692	0.25692
12	3-Chloropropionitrile	54	2.241	2.246	(0.645)	41004	0.26852	0.26852
13	Malononitrile	66	2.380	2.385	(0.685)	71443	0.24723	0.24723
209	Benzaldehyde	77	3.182	3.182	(0.915)	43208	0.25364	0.25364
21	Aniline	93	3.246	3.252	(0.934)	86246	0.24158	0.24158
22	Phenol	94	3.193	3.193	(0.918)	63152	0.22462	0.22462
23	bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	58932	0.23748	0.23748
24	2-Chlorophenol	128	3.332	3.337	(0.958)	52465	0.23425	0.23425
26	1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	58053	0.24907	0.24907
27	1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	57279	0.25007	0.25007
28	1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	54452	0.24442	0.24442
29	Benzyl Alcohol	108	3.546	3.546	(1.020)	34784	0.23641	0.23641
30	2-Methylphenol	108	3.610	3.610	(1.038)	40147	0.20563	0.20563
31	bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	102924	0.26221	0.26221
37	Acetophenone	105	3.733	3.738	(1.074)	76500	0.24660	0.24660
32	N-Nitroso-di-n-propylamine	70	3.722	3.728	(1.071)	40572	0.23800	0.23800
192	4-Methylphenol	108	3.711	3.712	(1.068)	33256	0.28442	0.28442
34	Hexachloroethane	117	3.834	3.835	(1.103)	22965	0.25205	0.25204
35	Nitrobenzene	77	3.861	3.861	(0.885)	59171	0.25560	0.25560
41	Isophorone	82	4.022	4.022	(0.922)	101520	0.23529	0.23529
42	2-Nitrophenol	139	4.086	4.086	(0.936)	25316	0.21993	0.21993
43	2,4-Dimethylphenol	107	4.091	4.086	(0.937)	36480	0.29769	0.29769
44	bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.951)	62513	0.24418	0.24418
46	2,4-Toluenediamene	121	5.188	5.188	(1.189)	22698	0.23950	0.23950
47	1,3,5-Trichlorobenzene	180	4.097	4.097	(0.939)	45481	0.25271	0.25271

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48	2,4-Dichlorophenol	162	4.268	4.252	(0.978)	23059	0.38741	0.38741
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.321	4.321	(0.990)	43804	0.24881	0.24881
51	Naphthalene	128	4.380	4.380	(1.004)	160991	0.25773	0.25773
52	4-Chloroaniline	127	4.401	4.402	(1.009)	44492	0.19264	0.19264
56	Hexachlorobutadiene	225	4.460	4.461	(1.022)	22430	0.24518	0.24518
210	Caprolactam	113	4.626	4.658	(1.060)	13887	0.19472	0.19472
57	1,2,3-Trichlorobenzene	180	4.482	4.482	(1.027)	39619	0.24277	0.24276
59	4-Chloro-3-Methylphenol	107	4.738	4.728	(1.086)	36081	0.19973	0.19973
62	2-Methylnaphthalene	142	4.872	4.872	(1.116)	79642	0.23580	0.23580
63	1-Methylnaphthalene	142	4.947	4.947	(1.134)	91239	0.23106	0.23106
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.886)	23031	0.22519	0.22519
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.900)	21003	0.20267	0.20267
67	2,4,5-Trichlorophenol	196	5.113	5.097	(0.908)	25809	0.22221	0.22221
211	1,1'-Biphenyl	154	5.204	5.204	(0.924)	123567	0.24668	0.24668
68	1,2,3,5-Tetrachlorobenzene	216	4.984	4.985	(0.885)	39151	0.23767	0.23767
70	2-Chloronaphthalene	162	5.225	5.231	(0.928)	88738	0.24520	0.24520
73	2-Nitroaniline	65	5.289	5.290	(0.939)	28396	0.22497	0.22497
74	1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.924)	36074	0.24179	0.24179
76	Dimethylphthalate	163	5.396	5.402	(0.958)	103338	0.24562	0.24562
78	2,6-Dinitrotoluene	165	5.450	5.450	(0.968)	21485	0.22048	0.22048
79	Acenaphthylene	152	5.530	5.536	(0.982)	148203	0.24764	0.24764
80	1,2-Dinitrobenzene	168	5.498	5.498	(0.976)	10065	0.20923	0.20923
81	3-Nitroaniline	138	5.584	5.584	(0.991)	27031	0.23882	0.23882
82	Acenaphthene	153	5.658	5.659	(1.005)	97722	0.24630	0.24630
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	5.781	5.782	(1.027)	133419	0.25662	0.25662
87	2,4-Dinitrotoluene	165	5.744	5.750	(1.020)	28326	0.21123	0.21122
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.036)	19680	0.19929	0.19929
93	Diethylphthalate	149	5.904	5.905	(1.048)	109852	0.24963	0.24963
94	Fluorene	166	6.027	6.033	(1.070)	108755	0.24332	0.24332
95	4-Chlorophenyl-phenylether	204	6.011	6.012	(1.067)	47708	0.24138	0.24138
96	4-Nitroaniline	138	6.038	6.028	(1.072)	23816	0.20445	0.20445
98	4,6-Dinitro-2-methylphenol	198	6.049	6.049	(0.900)	13710	0.16088	0.16088
99	N-Nitrosodiphenylamine	169	6.092	6.097	(0.907)	80275	0.24696	0.24696
100	1,2-Diphenylhydrazine	77	6.124	6.129	(0.912)	123506	0.25374	0.25374
106	4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	27837	0.24247	0.24247
107	Hexachlorobenzene	284	6.439	6.440	(0.959)	26432	0.23750	0.23750
212	Atrazine	200	6.455	6.461	(0.961)	16500	0.22500	0.22500
111	Pentachlorophenol	266	6.584	6.573	(0.980)	26193	0.65134	0.65134
115	Phenanthrene	178	6.733	6.739	(1.002)	155381	0.24700	0.24700
116	Anthracene	178	6.771	6.776	(1.008)	161441	0.25481	0.25481
119	Carbazole	167	6.878	6.878	(1.024)	145163	0.23957	0.23957
120	Di-n-Butylphthalate	149	7.081	7.087	(1.054)	177707	0.25524	0.25524
123	Fluoranthene	202	7.605	7.606	(1.132)	156251	0.24522	0.24522
124	Benzidine	184	7.680	7.675	(0.886)	73336	0.19962	0.19962
125	Pyrene	202	7.776	7.777	(0.897)	165409	0.25613	0.25613
131	Butylbenzylphthalate	149	8.188	8.189	(0.944)	75752	0.23886	0.23886
133	3,3'-Dimethoxybenzidine	244	8.584	8.584	(0.990)	27829	0.20774	0.20774
135	3,3'-Dichlorobenzidine	252	8.622	8.622	(0.994)	54255	0.23031	0.23030
136	Benzo(a)Anthracene	228	8.664	8.665	(0.999)	160357	0.24765	0.24765
137	Chrysene	228	8.691	8.697	(1.002)	154532	0.25671	0.25671
138	4,4'-Methylene bis(o-chloroan	231	8.616	8.611	(0.994)	26366	0.21640	0.21640

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.595	8.595	(0.991)	107915	0.23914	0.23914
140 Di-n-octylphthalate	149	9.114	9.114	(0.907)	162063	0.22632	0.22632
141 Benzo(b)fluoranthene	252	9.622	9.622	(0.957)	136101	0.22654	0.22654(H)
142 Benzo(k)fluoranthene	252	9.648	9.654	(0.960)	166599	0.25094	0.25094
146 Benzo(a)pyrene	252	9.980	9.986	(0.993)	137100	0.23885	0.23885
149 Indeno(1,2,3-cd)pyrene	276	11.515	11.531	(1.146)	145789	0.22787	0.22787
150 Dibenz(a,h)anthracene	278	11.520	11.537	(1.146)	125874	0.23607	0.23607
151 Benzo(g,h,i)perylene	276	11.970	11.981	(1.191)	118829	0.22730	0.22730
198 1,4-Dioxane	88	1.690	1.690	(0.486)	22190	0.26291	0.26291
101 Diphenylamine	169	6.092	6.097	(0.907)	80275	0.24696	0.24696

QC Flag Legend

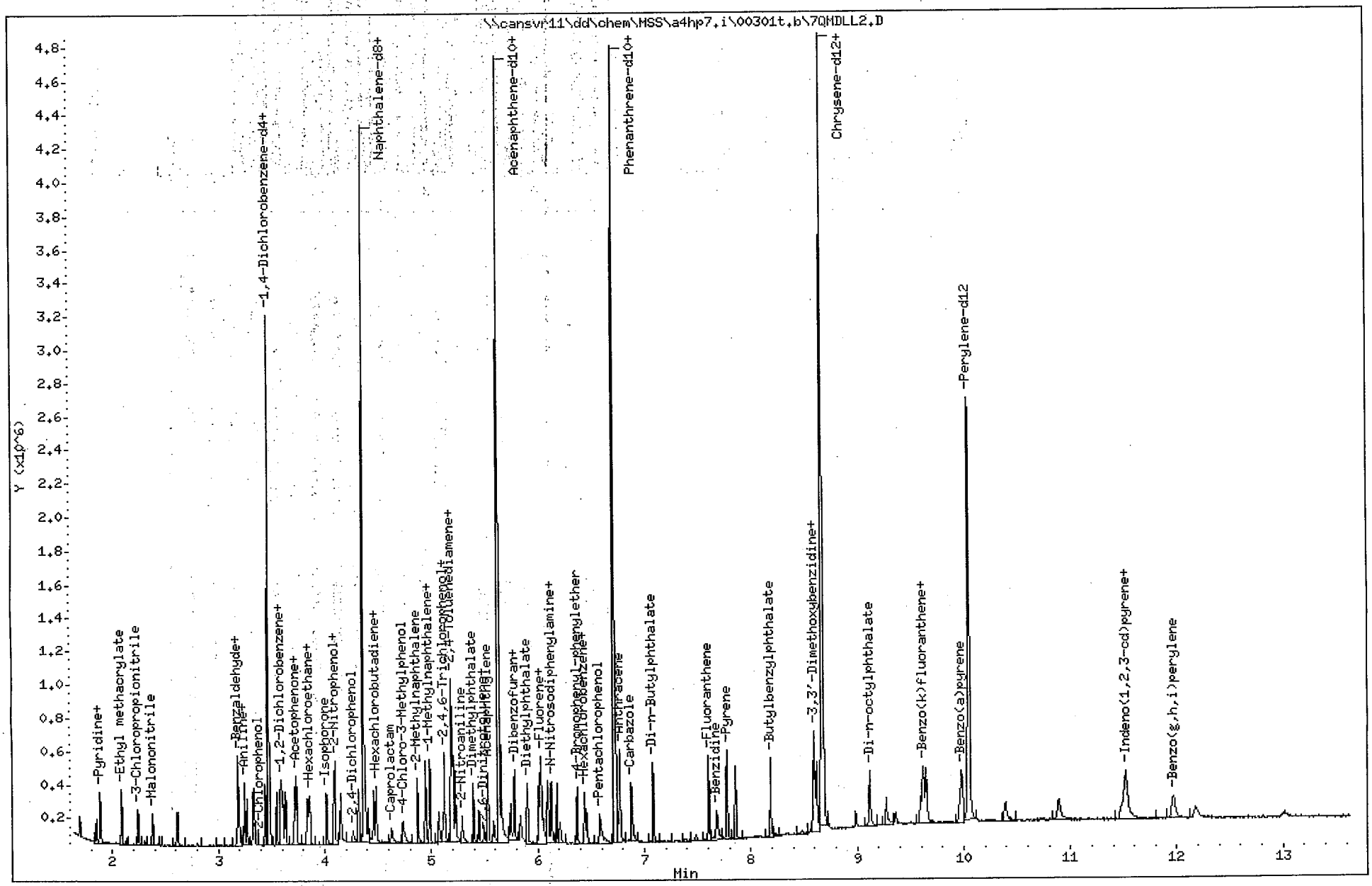
H - Operator selected an alternate compound hit.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\7QMDLL2.D
Date : 01-MAR-2010 16:22
Client ID:
Sample Info: l2,00301a,b,8270C-625,1-827042d,sub,1,,2

Instrument: a4hp7.i

Operator: 001710
Column diameter: 0.32

Column phase: db5.625



North Canton

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\7QMDLL3.D
Lab Smp Id: l3
Inj Date : 01-MAR-2010 16:02
Operator : 001710 Inst ID: a4hp7.i
Smp Info : l3,00301a.b,8270C-625,1-827042d.sub,1,,3
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\MSS\a4hp7.i\00301t.b\8270C-625.m
Meth Date : 02-Mar-2010 10:20 gruberj Quant Type: ISTD
Cal Date : 01-MAR-2010 20:53 Cal File: 7AL0301.D
Als bottle: 4 QC Sample: mrl
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: qcmrl.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.476	3.471	(1.000)	329744	2.00000	
* 2 Naphthalene-d8	136	4.364	4.364	(1.000)	1350799	2.00000	
* 3 Acenaphthene-d10	164	5.632	5.632	(1.000)	696034	2.00000	
* 4 Phenanthrene-d10	188	6.718	6.717	(1.000)	1111400	2.00000	
* 5 Chrysene-d12	240	8.670	8.659	(1.000)	1266655	2.00000	
* 6 Perylene-d12	264	10.050	10.028	(1.000)	1163422	2.00000	
9 Pyridine	79	1.882	1.882	(0.542)	102617	0.48439	0.48439
10 N-Nitrosodimethylamine	74	1.845	1.850	(0.531)	60220	0.49266	0.49266
11 Ethyl methacrylate	69	2.086	2.086	(0.600)	90232	0.48782	0.48782
12 3-Chloropropionitrile	54	2.241	2.246	(0.645)	72200	0.50062	0.50062
13 Malononitrile	66	2.380	2.385	(0.685)	137230	0.50283	0.50283
209 Benzaldehyde	77	3.182	3.182	(0.915)	79204	0.47034	0.47034
21 Aniline	93	3.246	3.252	(0.934)	167243	0.49603	0.49602
22 Phenol	94	3.193	3.193	(0.918)	124561	0.46910	0.46910
23 bis(2-Chloroethyl)ether	93	3.268	3.268	(0.940)	112875	0.48161	0.48161
24 2-Chlorophenol	128	3.332	3.337	(0.958)	99451	0.47016	0.47016
26 1,3-Dichlorobenzene	146	3.439	3.439	(0.989)	107105	0.48655	0.48655
27 1,4-Dichlorobenzene	146	3.487	3.487	(1.003)	106528	0.49244	0.49244
28 1,2-Dichlorobenzene	146	3.594	3.594	(1.034)	100774	0.47897	0.47897
29 Benzyl Alcohol	108	3.546	3.546	(1.020)	64342	0.46302	0.46302
30 2-Methylphenol	108	3.605	3.610	(1.037)	81763	0.44342	0.44342
31 bis(2-Chloroisopropyl)ether	45	3.631	3.631	(1.045)	186617	0.50340	0.50340
37 Acetophenone	105	3.733	3.738	(1.074)	141363	0.48249	0.48249
32 N-Nitroso-di-n-propylamine	70	3.722	3.728	(1.071)	77840	0.48348	0.48348
192 4-Methylphenol	108	3.706	3.712	(1.066)	71664	0.49618	0.49618
34 Hexachloroethane	117	3.835	3.835	(1.103)	41432	0.48147	0.48147
35 Nitrobenzene	77	3.861	3.861	(0.885)	109206	0.49056	0.49056
41 Isophorone	82	4.017	4.022	(0.920)	197983	0.47717	0.47717
42 2-Nitrophenol	139	4.086	4.086	(0.936)	49936	0.45111	0.45111
43 2,4-Dimethylphenol	107	4.086	4.086	(0.936)	71804	0.48903	0.48903
44 bis(2-Chloroethoxy)methane	93	4.150	4.150	(0.951)	116583	0.47355	0.47355
46 2,4-Toluenediamene	121	5.188	5.188	(1.189)	52734	0.57863	0.57863
47 1,3,5-Trichlorobenzene	180	4.097	4.097	(0.939)	83120	0.48027	0.48027

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
48	2,4-Dichlorophenol	162	4.263	4.252	(0.977)	40052	0.51149	0.51149
49	Benzoic Acid	122	4.118	4.177	(0.944)	30796	1.26081	1.2608(QM)
50	1,2,4-Trichlorobenzene	180	4.316	4.321	(0.989)	83661	0.49416	0.49416
51	Naphthalene	128	4.380	4.380	(1.004)	304200	0.50643	0.50642
52	4-Chloroaniline	127	4.402	4.402	(1.009)	103712	0.46697	0.46697
56	Hexachlorobutadiene	225	4.461	4.461	(1.022)	41925	0.47656	0.47656
210	Caprolactam	113	4.626	4.658	(1.060)	28952	0.42214	0.42214
57	1,2,3-Trichlorobenzene	180	4.482	4.482	(1.027)	73214	0.46651	0.46651
59	4-Chloro-3-Methylphenol	107	4.733	4.728	(1.085)	75109	0.43235	0.43235
62	2-Methylnaphthalene	142	4.872	4.872	(1.116)	153166	0.47158	0.47158
63	1-Methylnaphthalene	142	4.947	4.947	(1.134)	180287	0.47478	0.47478
64	Hexachlorocyclopentadiene	237	4.990	4.990	(0.886)	44266	0.44908	0.44908
66	2,4,6-Trichlorophenol	196	5.070	5.070	(0.900)	43613	0.43665	0.43664
67	2,4,5-Trichlorophenol	196	5.108	5.097	(0.907)	49312	0.44051	0.44051
211	1,1'-Biphenyl	154	5.204	5.204	(0.924)	231945	0.48042	0.48042
68	1,2,3,5-Tetrachlorobenzene	216	4.985	4.985	(0.885)	77547	0.48842	0.48842
70	2-Chloronaphthalene	162	5.225	5.231	(0.928)	167879	0.48130	0.48130
73	2-Nitroaniline	65	5.284	5.290	(0.938)	57700	0.47430	0.47430
74	1,2,3,4-Tetrachlorobenzene	216	5.204	5.204	(0.924)	70524	0.49043	0.49043
76	Dimethylphthalate	163	5.397	5.402	(0.958)	197031	0.48589	0.48589
78	2,6-Dinitrotoluene	165	5.450	5.450	(0.968)	40956	0.43608	0.43608
79	Acenaphthylene	152	5.536	5.536	(0.983)	283735	0.49190	0.49190
80	1,2-Dinitrobenzene	168	5.498	5.498	(0.976)	20118	0.43391	0.43391
81	3-Nitroaniline	138	5.584	5.584	(0.991)	50591	0.46375	0.46375
82	Acenaphthene	153	5.659	5.659	(1.005)	186551	0.48783	0.48783
83	2,4-Dinitrophenol	184	5.664	5.659	(1.006)	41963	1.17921	1.1792(Q)
85	4-Nitrophenol	109	5.723	5.685	(1.016)	20496	0.58332	0.58332(QM)
86	Dibenzofuran	168	5.782	5.782	(1.027)	248013	0.49495	0.49494
87	2,4-Dinitrotoluene	165	5.744	5.750	(1.020)	58672	0.45394	0.45394
91	2,3,5,6-Tetrachlorophenol	232	5.835	5.835	(1.036)	45117	0.47403	0.47403
93	Diethylphthalate	149	5.905	5.905	(1.048)	208971	0.49270	0.49270
94	Fluorene	166	6.028	6.033	(1.070)	215849	0.50105	0.50105
95	4-Chlorophenyl-phenylether	204	6.012	6.012	(1.067)	92109	0.48352	0.48352
96	4-Nitroaniline	138	6.033	6.028	(1.071)	46773	0.41661	0.41661
98	4,6-Dinitro-2-methylphenol	198	6.049	6.049	(0.900)	27759	0.34128	0.34128
99	N-Nitrosodiphenylamine	169	6.092	6.097	(0.907)	152151	0.49041	0.49041
100	1,2-Diphenylhydrazine	77	6.129	6.129	(0.912)	237139	0.51043	0.51043
106	4-Bromophenyl-phenylether	248	6.370	6.370	(0.948)	51966	0.47424	0.47424
107	Hexachlorobenzene	284	6.440	6.440	(0.959)	51290	0.48285	0.48285
212	Atrazine	200	6.456	6.461	(0.961)	35471	0.50676	0.50676
111	Pentachlorophenol	266	6.579	6.573	(0.979)	60150	1.08668	1.0867
115	Phenanthrene	178	6.734	6.739	(1.002)	302002	0.50298	0.50298
116	Anthracene	178	6.771	6.776	(1.008)	310678	0.51375	0.51374
119	Carbazole	167	6.878	6.878	(1.024)	282889	0.48914	0.48914
120	Di-n-Butylphthalate	149	7.087	7.087	(1.055)	345914	0.52053	0.52053
123	Fluoranthene	202	7.606	7.606	(1.132)	297989	0.48997	0.48997
124	Benzidine	184	7.680	7.675	(0.886)	158690	0.44733	0.44733
125	Pyrene	202	7.777	7.777	(0.897)	324209	0.51989	0.51989
131	Butylbenzylphthalate	149	8.189	8.189	(0.944)	149145	0.48702	0.48702
133	3,3'-Dimethoxybenzidine	244	8.584	8.584	(0.990)	59881	0.46291	0.46291
135	3,3'-Dichlorobenzidine	252	8.622	8.622	(0.994)	106423	0.46783	0.46783
136	Benzo(a)Anthracene	228	8.665	8.665	(0.999)	310761	0.49701	0.49701
137	Chrysene	228	8.691	8.697	(1.002)	296247	0.50963	0.50963
138	4,4'-Methylene bis(o-chloroan	231	8.611	8.611	(0.993)	54897	0.46661	0.46660

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
139 bis(2-ethylhexyl)Phthalate	149	8.595	8.595	(0.991)	218889	0.50232	0.50232
140 Di-n-octylphthalate	149	9.114	9.114	(0.907)	333443	0.47729	0.47729
141 Benzo(b)fluoranthene	252	9.617	9.622	(0.957)	272892	0.46558	0.46558(H)
142 Benzo(k)fluoranthene	252	9.643	9.654	(0.960)	318335	0.49148	0.49148
146 Benzo(a)pyrene	252	9.986	9.986	(0.994)	262194	0.46821	0.46821
149 Indeno(1,2,3-cd)pyrene	276	11.515	11.531	(1.146)	300283	0.48108	0.48108
150 Dibenz(a,h)anthracene	278	11.521	11.537	(1.146)	240220	0.46179	0.46179
151 Benzo(g,h,i)perylene	276	11.965	11.981	(1.191)	236772	0.46422	0.46422
198 1,4-Dioxane	88	1.690	1.690	(0.486)	39269	0.49263	0.49263
101 Diphenylamine	169	6.092	6.097	(0.907)	152151	0.49041	0.49041

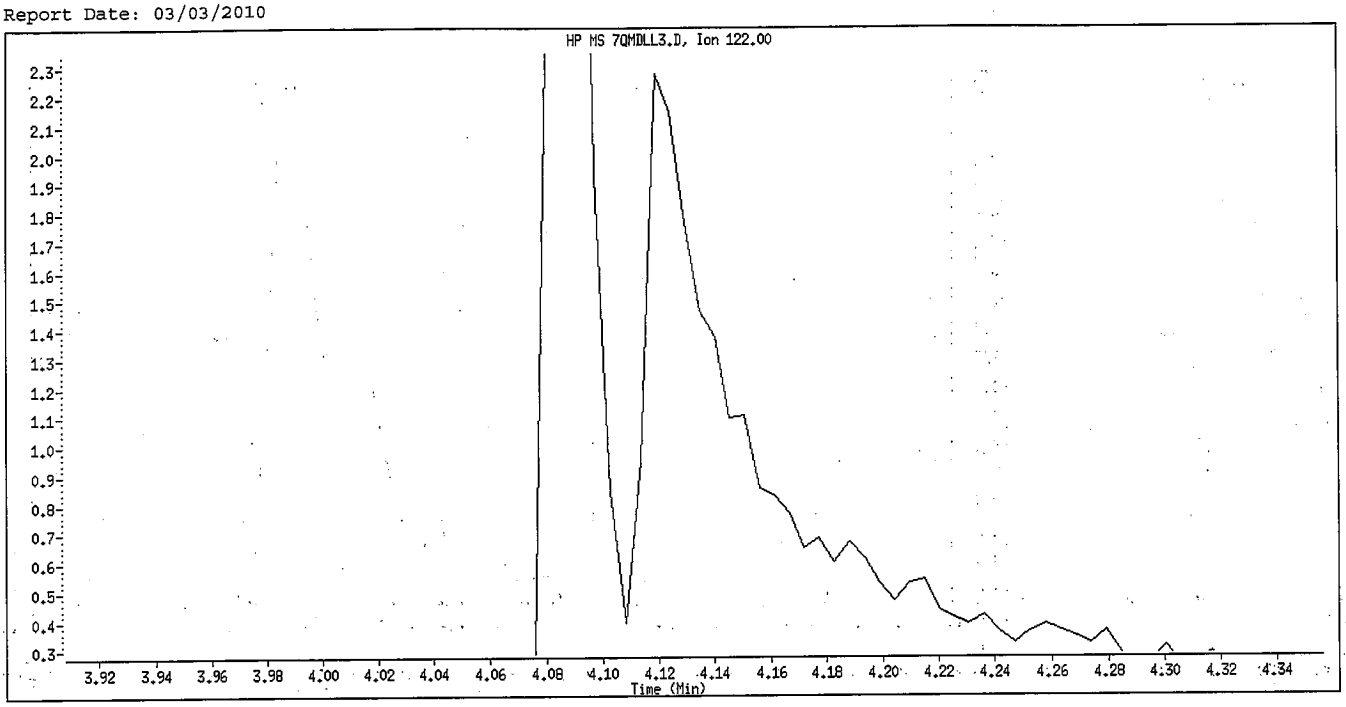
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

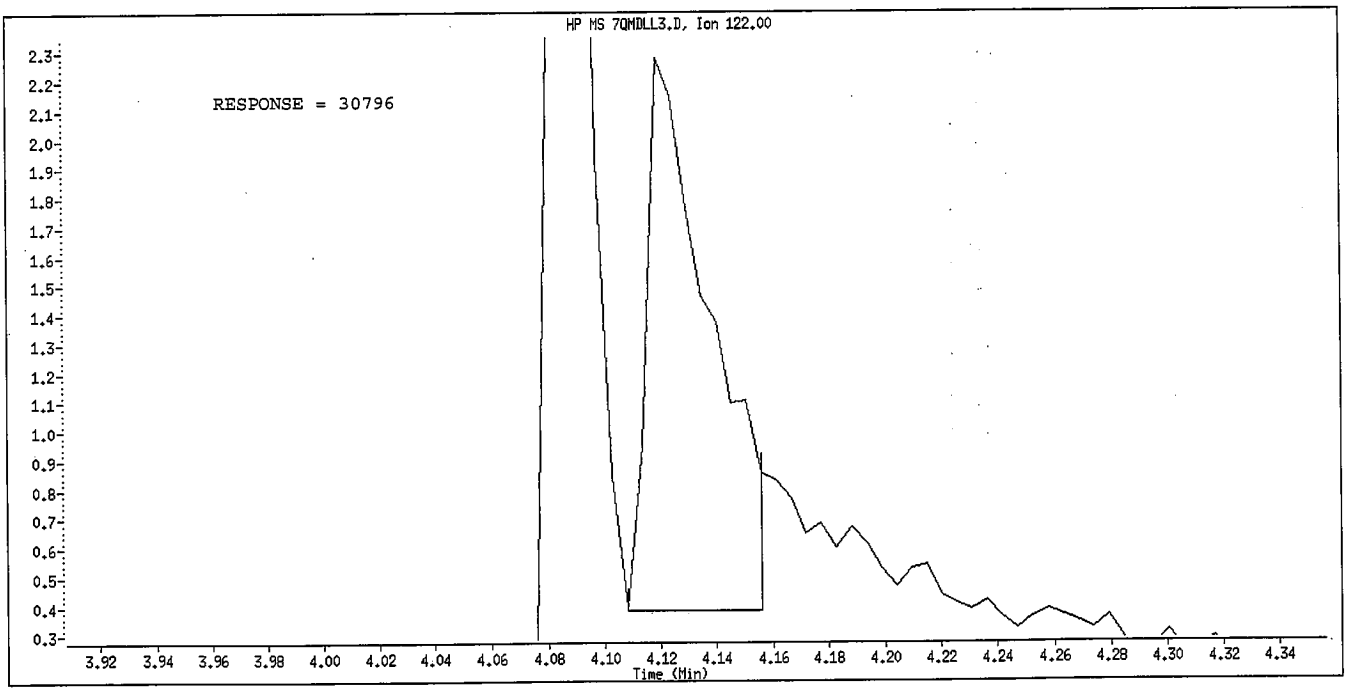
Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\003Q1t.b\7QHDLL3.D
Date : 01-MAR-2010 16:02
Client ID:
Sample Info: 13,003Q1a,b,8270C-625,1-827042d,sub,1,,3
Column phase: db5.625
Instrument: a4hp7.i
Operator: 001710
Column diameter: 0.32
Y (x10^6)
Min
-Pyridine+
-Ethyl methacrylate
-3-Chloropropionitrile
-Malononitrile
-Benzaldehyde+
-Aniline+
-2-Chlorophenol
-1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene+
-Acetophenone+
-Hexachloroethane+
-Isophorone
-2-Nitrophenol+
-2,4-Dichlorophenol
-Hexachlorobutadiene+
Naphthalene-d8+
-Caprolactam
-4-Chloro-3-Methylphenol
-2-Methylnaphthalene
-1-Methylnaphthalene+
-2,4,6-Trichlorophenol+
-2,4-Toluenediamene+
-2-Nitroaniline
-Dimethylphthalate
-Acenaphthylene
-Dibenzofuran+
Acenaphthene-d10+
-Diethylphthalate
-Fluorene+
-N-Nitrosodiphenylamine+
-4-Bromophenyl-phenylether
-Hexachlorobenzene+
-Pentachlorophenol
-Anthracene
-Carbazole
Phenanthrene-d10+
-Di-n-Butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Butylbenzylphthalate
-3,3'-Dimethoxybenzidine+
Chrysene-d12+
-Di-n-octylphthalate
-Benzo(k)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\cansvr11\dd\chem\MSS\a4hp7.i\003Q1t.b\7QHDLL3.D

Page 1

Data File Name: 7QMDLL3.D
Inj. Date and Time: 01-MAR-2010 16:02
Instrument ID: a4hp7.i
Client ID:
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 03/03/2010



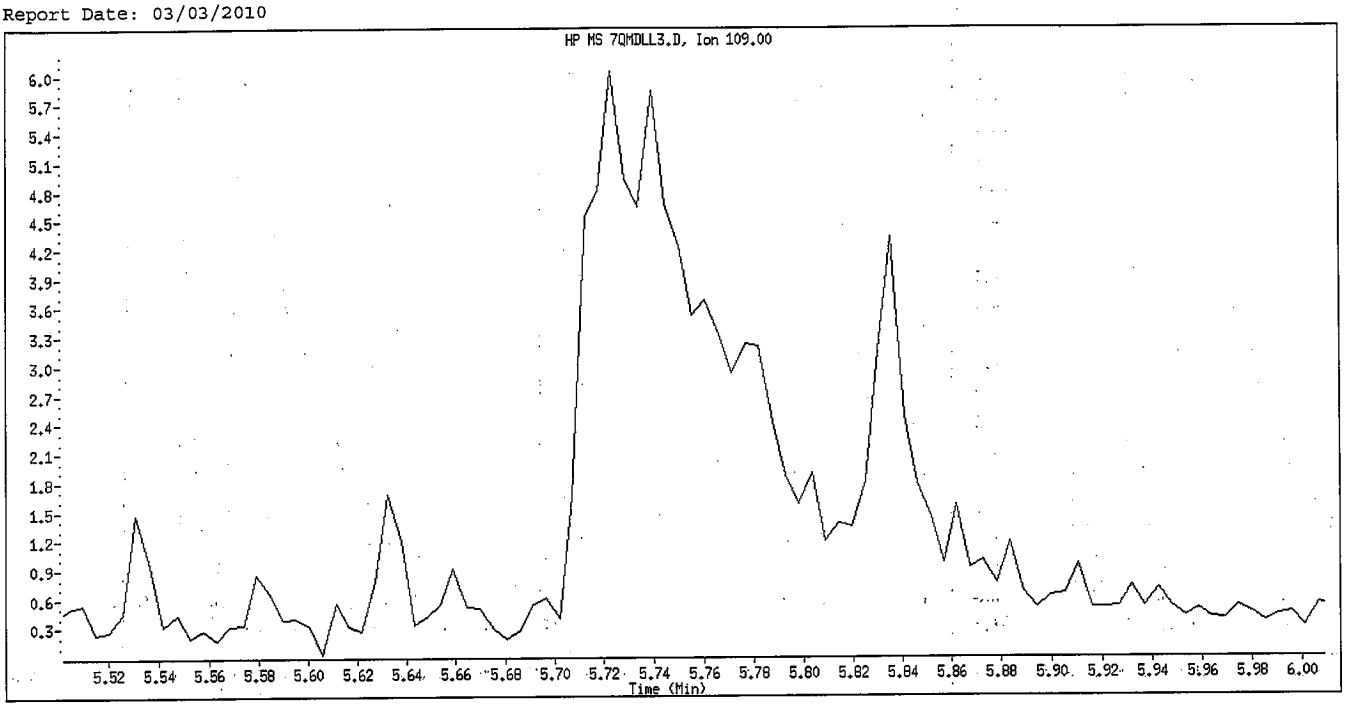
Original Integration



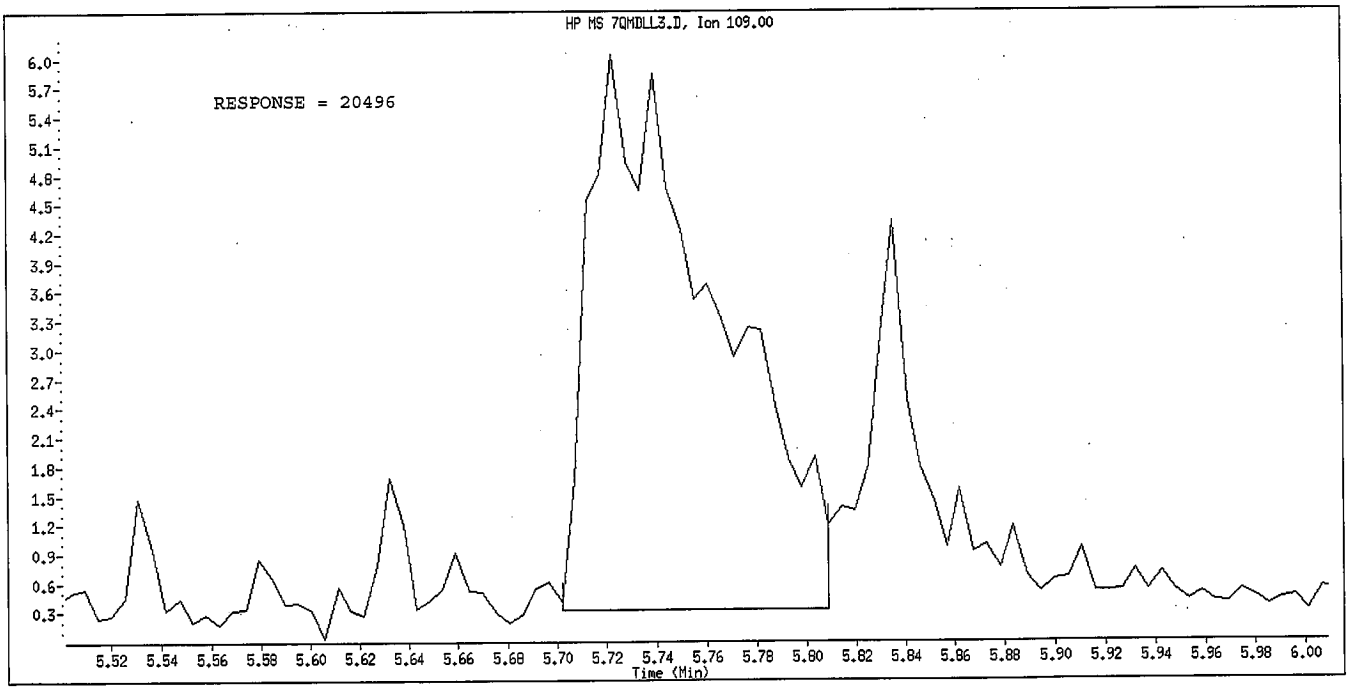
Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

Data File Name: 7QMDLL3.D
Inj. Date and Time: 01-MAR-2010 16:02
Instrument ID: a4hp7.i
Client ID:
Compound Name: 4-Nitrophenol
CAS #: 100-02-7
Report Date: 03/03/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica
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RAW QC DATA

dd 3/7/10

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7DF0305.D

Date : 05-MAR-2010 10:06

Client ID:

Instrument: a4hp7.i

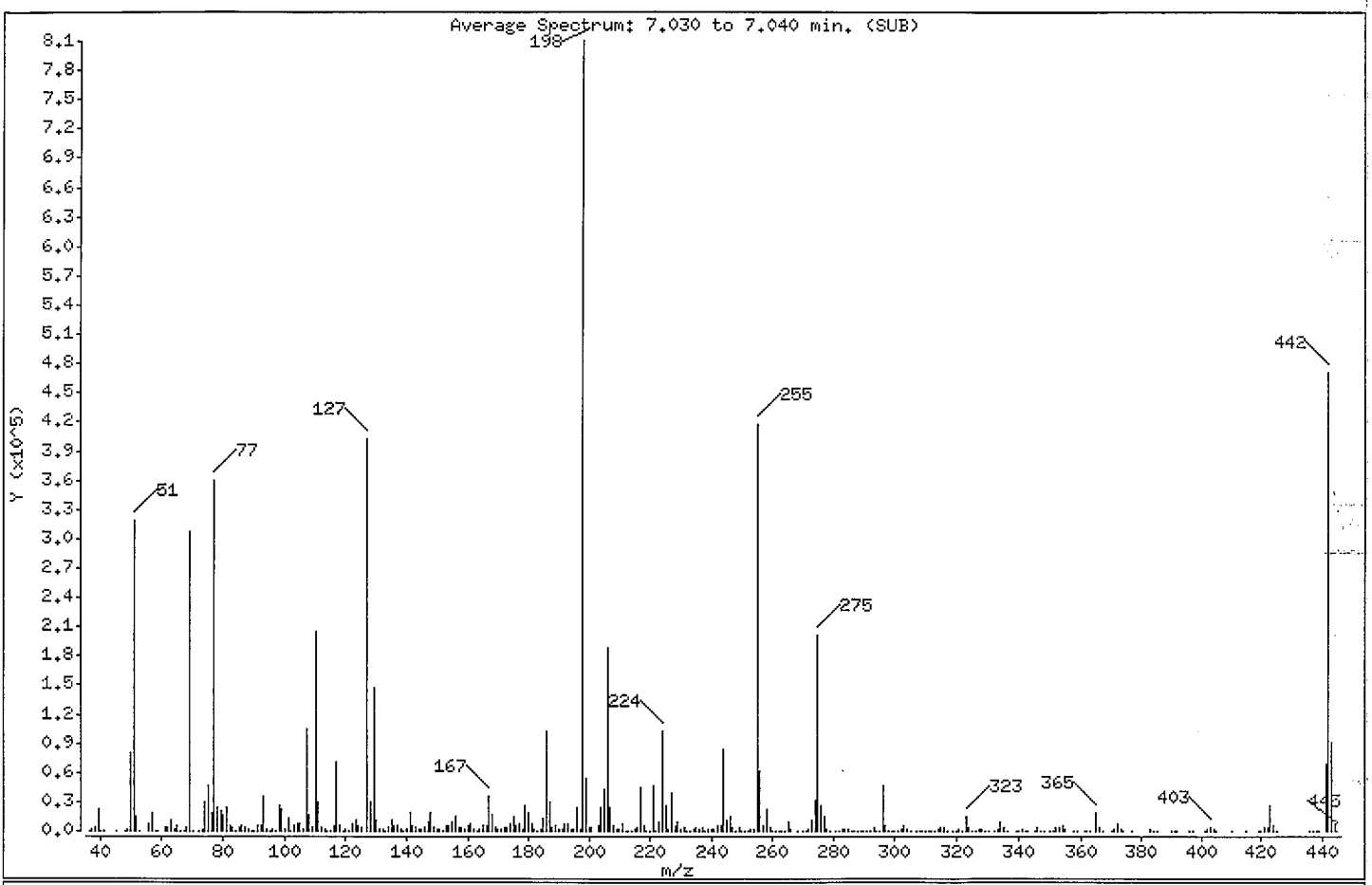
Sample Info: dftpp,00305a.b,dftpp390

Operator: 001710

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	39.33
68	Less than 2.00% of mass 69	0.55 (1.44)
69	Mass 69 relative abundance	37.87
70	Less than 2.00% of mass 69	0.10 (0.27)
127	25.00 - 75.00% of mass 198	49.73
197	Less than 1.00% of mass 198	0.15
199	5.00 - 9.00% of mass 198	6.60
275	10.00 - 30.00% of mass 198	24.80
365	Greater than 0.75% of mass 198	2.30
441	Present, but less than mass 443	8.41
442	40.00 - 110.00% of mass 198	58.08
443	15.00 - 24.00% of mass 442	11.22 (19.31)

Date : 05-MAR-2010 10:06

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00305a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0305.D
Spectrum: Average Spectrum: 7.030 to 7.040 min. (SUB)
Location of Maximum: 198.00
Number of points: 344

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	175	133.00	502	221.00	45680	312.00	235
37.00	1580	134.00	3811	222.00	741	313.00	474
38.00	3589	135.00	11663	223.00	9954	314.00	1754
39.00	22368	136.00	4801	224.00	102040	315.00	4654
40.00	568	137.00	6016	225.00	25656	316.00	3240
41.00	330	138.00	1385	226.00	2666	317.00	476
45.00	304	139.00	635	227.00	39704	319.00	119
48.00	286	140.00	2126	228.00	5872	320.00	186
49.00	2437	141.00	18384	229.00	8716	321.00	1414
50.00	80320	142.00	5796	230.00	1614	322.00	695
51.00	318528	143.00	4420	231.00	3816	323.00	15477
52.00	15554	144.00	1055	232.00	524	324.00	2877
53.00	826	145.00	1144	233.00	785	325.00	191
56.00	8145	146.00	3395	234.00	2465	326.00	233
57.00	19456	147.00	8938	235.00	3250	327.00	2591
58.00	832	148.00	18648	236.00	1768	328.00	1533
59.00	476	149.00	4262	237.00	3119	329.00	358
61.00	3849	150.00	1375	238.00	340	330.00	113
62.00	4358	151.00	2512	239.00	1574	332.00	826
63.00	11722	152.00	811	240.00	1125	333.00	1475
64.00	2075	153.00	5650	241.00	2341	334.00	9688
65.00	6220	154.00	4698	242.00	5385	335.00	2810
66.00	399	155.00	10129	243.00	5306	336.00	317
67.00	57	156.00	15588	244.00	84088	339.00	281
68.00	4429	157.00	3339	245.00	11353	340.00	217
69.00	306752	158.00	3453	246.00	14043	341.00	1820
70.00	818	159.00	2567	247.00	3013	342.00	493
72.00	164	160.00	5787	248.00	613	343.00	53
73.00	2244	161.00	8373	249.00	3015	345.00	56
74.00	29400	162.00	2293	250.00	580	346.00	3253
75.00	47248	163.00	813	251.00	653	347.00	735
76.00	18336	164.00	1136	252.00	753	348.00	58
77.00	359232	165.00	6049	253.00	1656	350.00	213
78.00	23656	166.00	5458	254.00	1591	351.00	290
79.00	21304	167.00	35184	255.00	417664	352.00	4369

Date : 05-MAR-2010 10:06

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00305a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0305.D
Spectrum: Average Spectrum: 7.030 to 7.040 min. (SUB)
Location of Maximum: 198.00
Number of points: 344

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	16616	168.00	16576	256.00	61024	353.00	3105
81.00	23760	169.00	2879	257.00	4870	354.00	5039
82.00	5226	170.00	1366	258.00	21496	355.00	1003
83.00	4350	171.00	1728	259.00	3867	358.00	62
84.00	365	172.00	3225	260.00	749	359.00	231
85.00	3945	173.00	4194	261.00	579	361.00	131
86.00	6422	174.00	7282	262.00	114	362.00	90
87.00	3040	175.00	14473	263.00	186	363.00	72
88.00	1710	176.00	4670	264.00	839	365.00	18664
89.00	650	177.00	6735	265.00	8661	366.00	2808
90.00	103	178.00	2051	266.00	1338	367.00	238
91.00	5118	179.00	25304	268.00	92	370.00	309
92.00	6160	180.00	18064	270.00	318	371.00	960
93.00	34800	181.00	8362	271.00	726	372.00	7646
94.00	2355	182.00	1374	272.00	1109	373.00	1954
95.00	828	183.00	868	273.00	12029	374.00	149
96.00	1463	184.00	1982	274.00	32520	377.00	195
97.00	75	185.00	12646	275.00	200832	383.00	2036
98.00	25176	186.00	101648	276.00	25952	384.00	577
99.00	22040	187.00	29200	277.00	14962	385.00	195
100.00	1702	188.00	2796	278.00	2689	390.00	780
101.00	13715	189.00	5715	279.00	484	391.00	770
102.00	573	190.00	981	281.00	52	392.00	433
103.00	5082	191.00	2775	282.00	416	396.00	65
104.00	7614	192.00	7772	283.00	1441	397.00	70
105.00	7124	193.00	8202	284.00	1184	401.00	512
106.00	2380	194.00	2045	285.00	2663	402.00	2764
107.00	103504	195.00	1207	286.00	526	403.00	4016
108.00	16656	196.00	24376	287.00	86	404.00	1394
109.00	3340	197.00	1175	288.00	172	405.00	174
110.00	204928	198.00	809984	289.00	596	410.00	130
111.00	30192	199.00	53440	290.00	445	415.00	141
112.00	3323	200.00	3400	291.00	392	419.00	65
113.00	1064	201.00	3695	292.00	708	420.00	138
114.00	503	203.00	4942	293.00	3351	421.00	3355

Date : 05-MAR-2010 10:06

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00305a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0305.D
Spectrum: Average Spectrum: 7.030 to 7.040 min. (SUB)
Location of Maximum: 198.00
Number of points: 344

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	352	204.00	24488	294.00	763	422.00	3723
116.00	5575	205.00	43224	295.00	919	423.00	25920
117.00	71288	206.00	187648	296.00	45824	424.00	5048
118.00	5191	207.00	25064	297.00	6138	425.00	364
119.00	635	208.00	5574	298.00	379	436.00	110
120.00	1573	209.00	2133	299.00	215	437.00	145
121.00	435	210.00	2365	300.00	69	438.00	221
122.00	7102	211.00	6702	301.00	464	439.00	307
123.00	10536	212.00	465	302.00	1094	441.00	68080
124.00	4918	213.00	522	303.00	5607	442.00	470400
125.00	4036	214.00	195	304.00	1606	443.00	90856
127.00	402816	215.00	1978	305.00	208	444.00	8233
128.00	29032	216.00	3455	307.00	72	445.00	407
129.00	147584	217.00	44880	308.00	784		
130.00	11829	218.00	6057	309.00	453		
131.00	2647	219.00	819	310.00	671		
132.00	1362	220.00	64	311.00	179		

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305a.b\7DF0305T.D

Date : 05-MAR-2010 10:06

Client ID:

Instrument: a4hp7.i

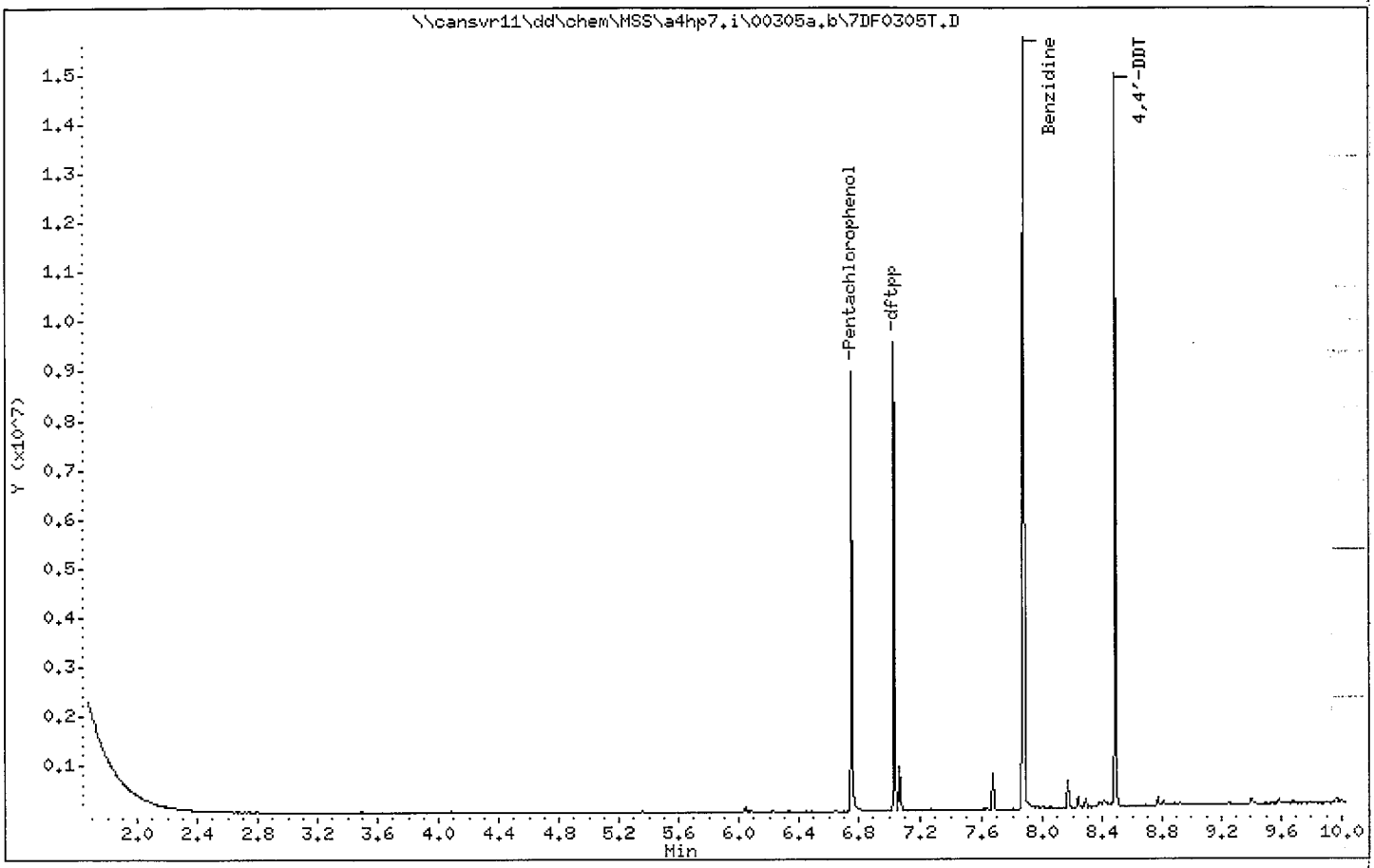
Sample Info: dftpp,00305a,b,dftpp390

Volume Injected (uL): 1.0

Operator: 001710

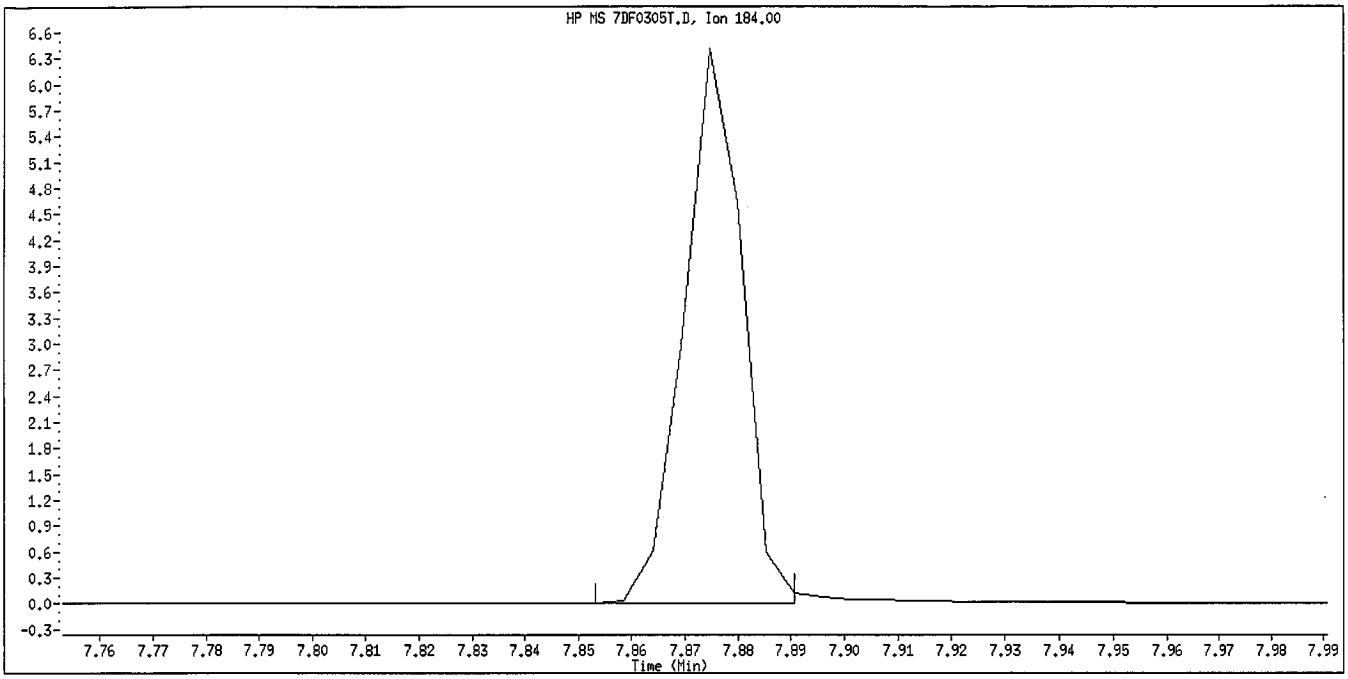
Column phase:

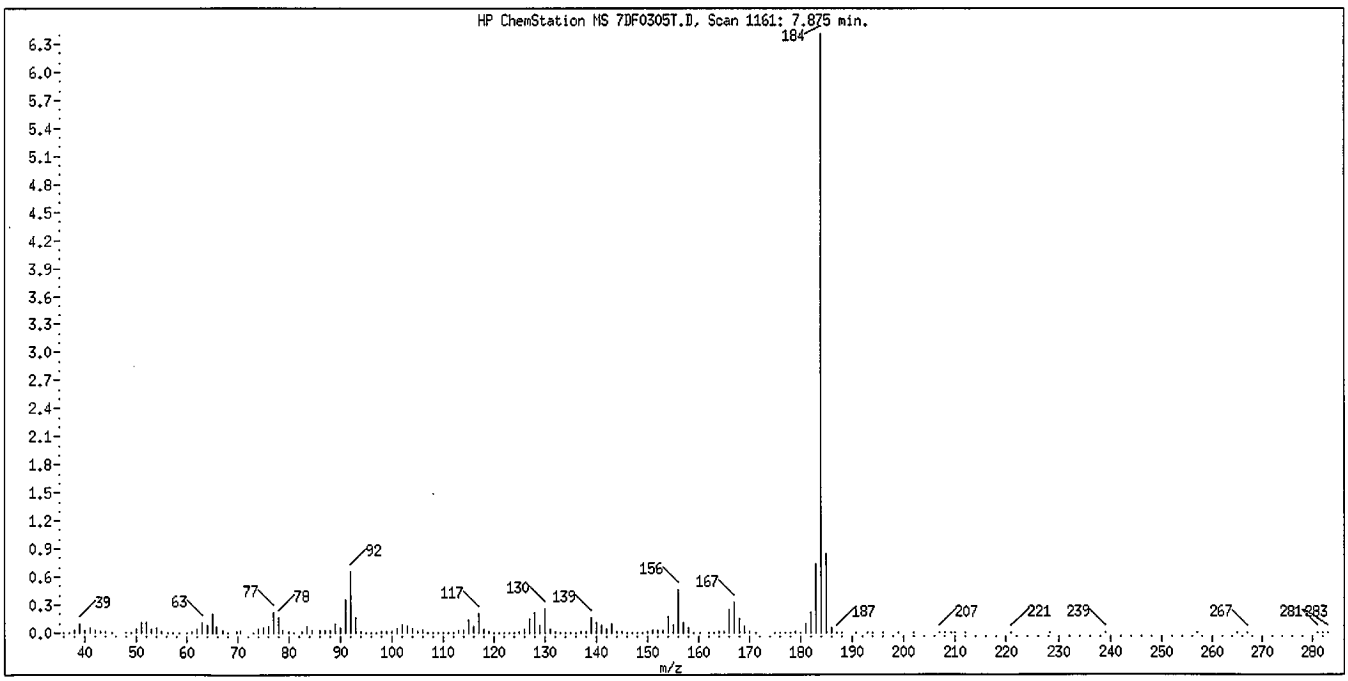
Column diameter: 2.00



Data File: 7DF0305T.D
Inj Date: 05-MAR-2010 10:06
Instrument ID: a4hp7.i
Compound Name: Benzidine
Operator Name: 001710
Report Date: 03/05/2010

TAILING FACTOR

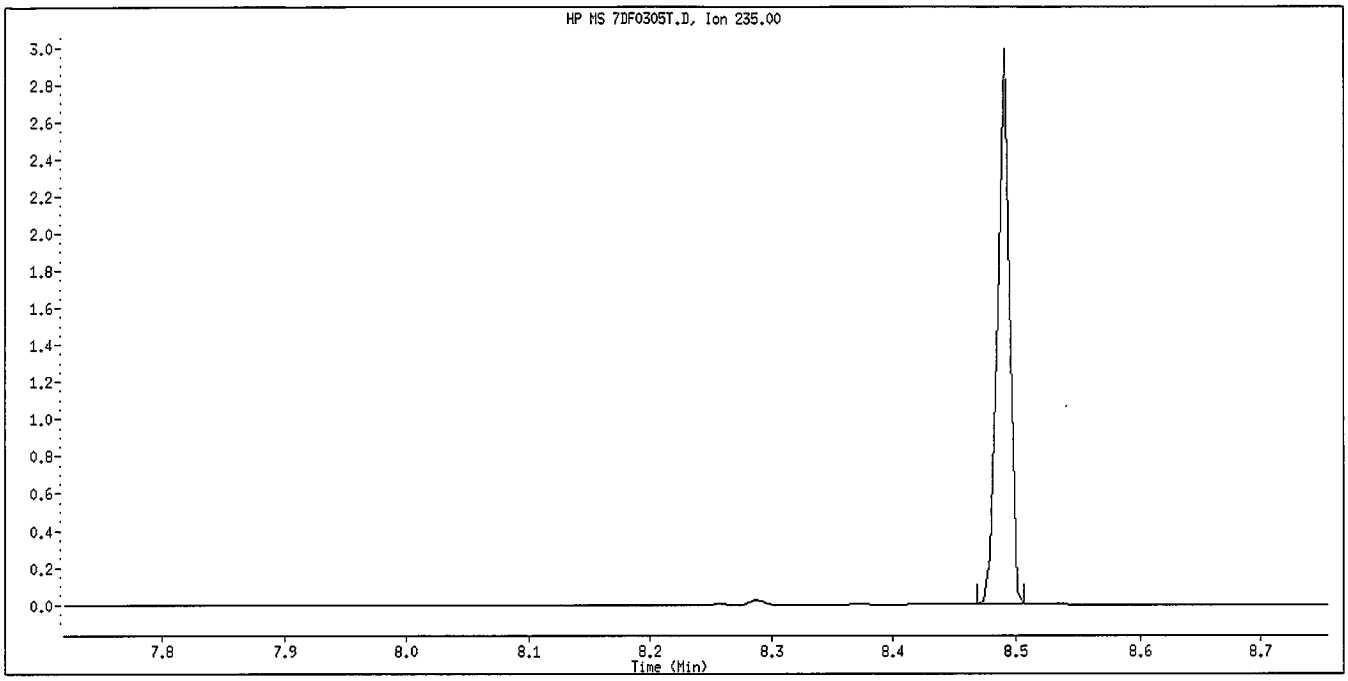




Tailing Factor = 1 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 7.863949 T2 = 7.874583 T3 = 7.885213

Data File: 7DF0305T.D
Inj Date: 05-MAR-2010 10:06
Instrument ID: a4hp7.i
Compound Name: 4,4'-DDT
Operator Name: 001710
Report Date: 03/05/2010

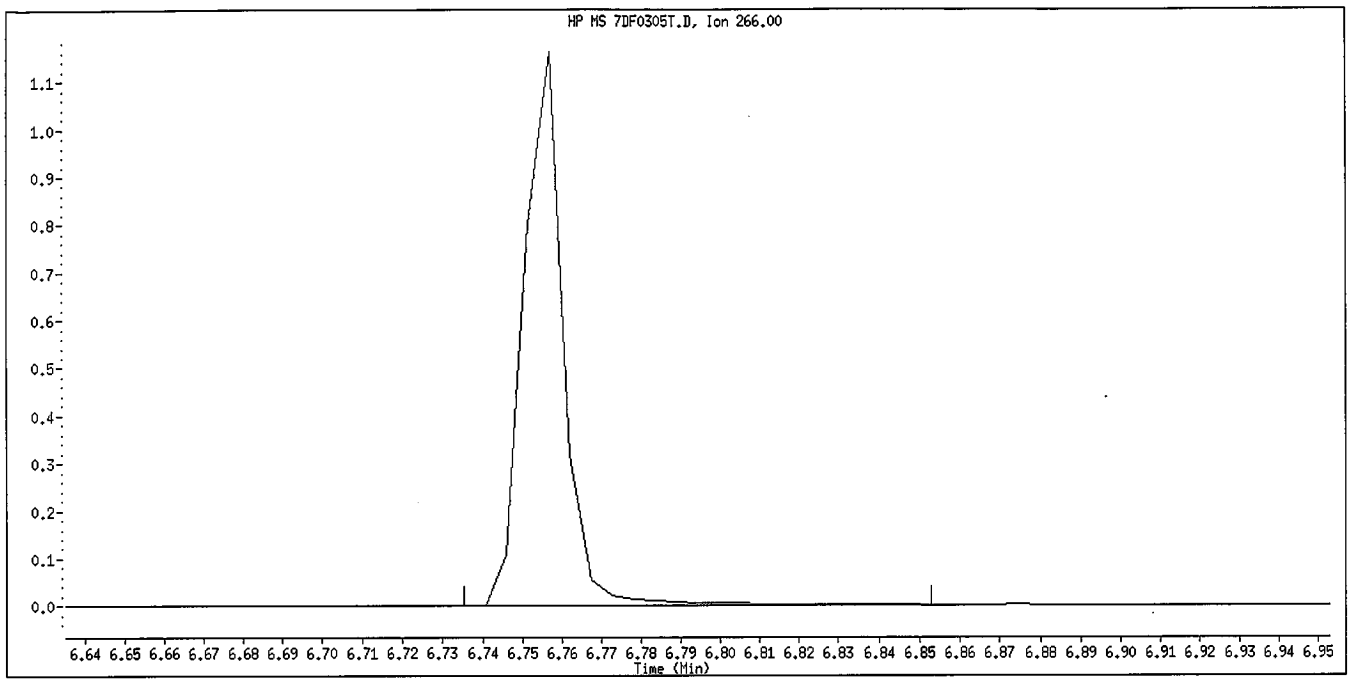
DEGRADATION REPORT

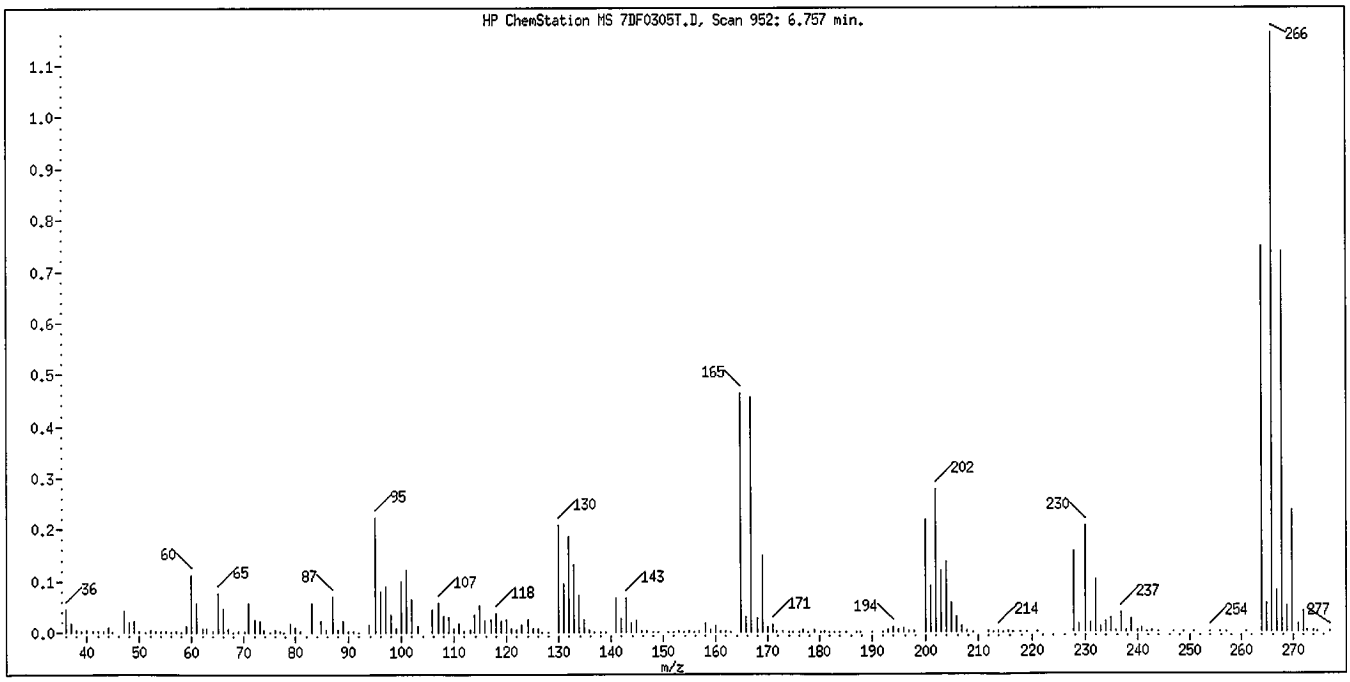


Degradation = 0% Good
Acceptance Criteria 0 - 20 %
DDT Area = 2013352
DDE Area = 0
DDD Area = 0

Data File: 7DF0305T.D
Inj Date: 05-MAR-2010 10:06
Instrument ID: a4hp7.i
Compound Name: Pentachlorophenol
Operator Name: 001710
Report Date: 03/05/2010

TAILING FACTOR





Tailing Factor = 0.886 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.746086 T2 = 6.756717 T3 = 6.766134

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\7DF0308.D

Date : 08-MAR-2010 09:57

Client ID:

Instrument: a4hp7.i

Sample Info: dftpp,00308a.b,dftpp390

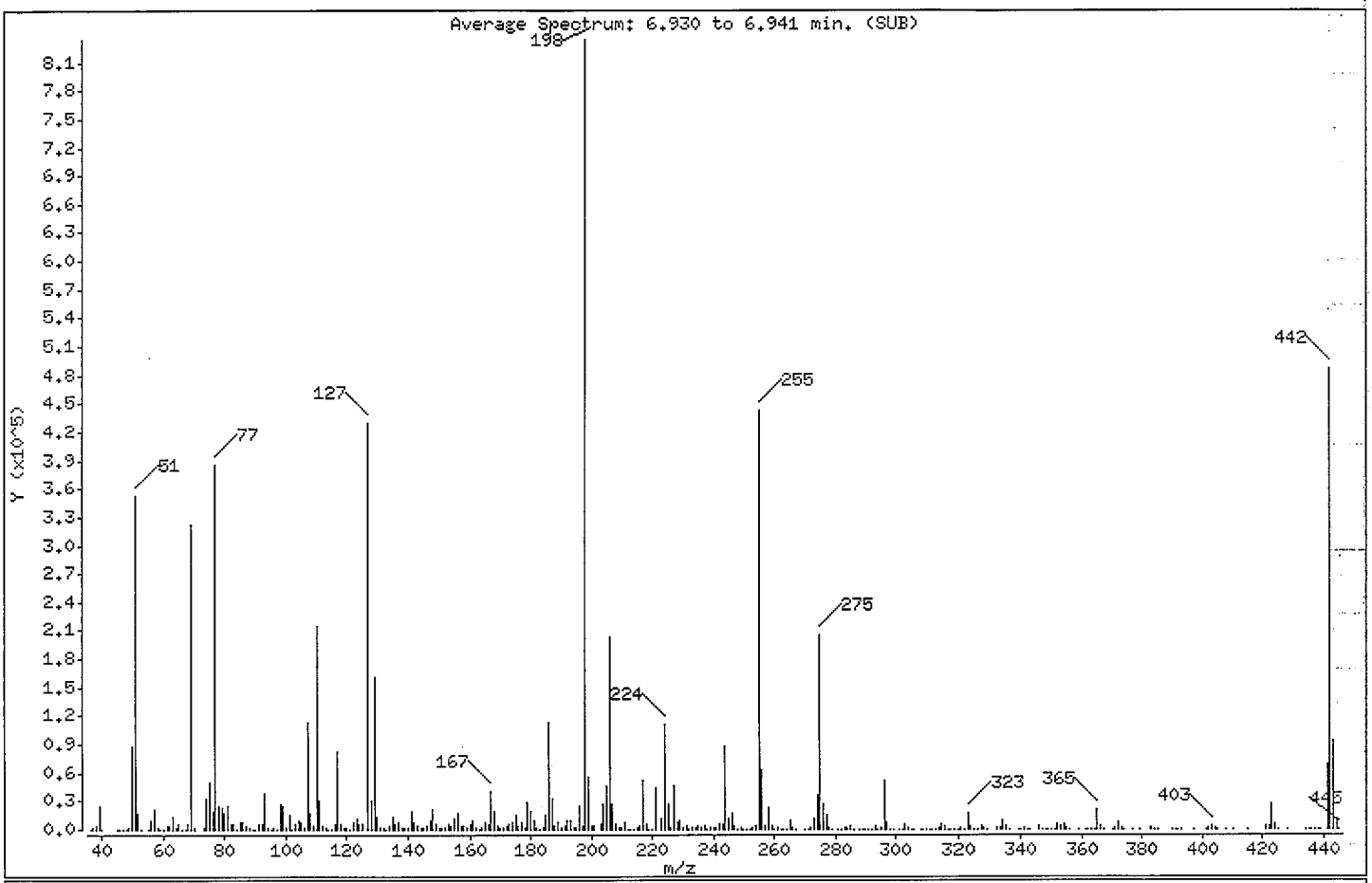
Operator: 001710

Column phase:

Column diameter: 2.00

1 dftpp

OKMW 3/9/10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	42.25
68	Less than 2.00% of mass 69	0.73 (1.89)
69	Mass 69 relative abundance	38.59
70	Less than 2.00% of mass 69	0.12 (0.31)
127	25.00 - 75.00% of mass 198	51.60
197	Less than 1.00% of mass 198	0.57
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 30.00% of mass 198	24.70
365	Greater than 0.75% of mass 198	2.50
441	Present, but less than mass 443	8.25
442	40.00 - 110.00% of mass 198	58.37
443	15.00 - 24.00% of mass 442	11.35 (19.44)

Date : 08-MAR-2010 09:57

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00308a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0308.D
Spectrum: Average Spectrum: 6.930 to 6.941 min. (SUB)
Location of Maximum: 198.00
Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	639	131.00	2788	219.00	696	313.00	491
37.00	1222	132.00	1391	220.00	408	314.00	2339
38.00	4361	133.00	454	221.00	43848	315.00	5873
39.00	25768	134.00	4253	223.00	10815	316.00	3532
40.00	682	135.00	13078	224.00	111960	317.00	606
45.00	438	136.00	5213	225.00	27208	318.00	52
46.00	56	137.00	7101	226.00	2791	319.00	52
47.00	213	138.00	1616	227.00	45072	320.00	153
48.00	262	139.00	1010	228.00	6833	321.00	1671
49.00	2298	140.00	1585	229.00	8892	322.00	871
50.00	88808	141.00	18984	230.00	1274	323.00	17824
51.00	352448	142.00	6891	231.00	4084	324.00	3076
52.00	17784	143.00	4344	232.00	807	325.00	386
53.00	762	144.00	1152	233.00	1028	326.00	319
55.00	289	145.00	1095	234.00	2638	327.00	3013
56.00	9039	146.00	3694	235.00	3270	328.00	1519
57.00	21008	147.00	9177	236.00	1904	329.00	354
58.00	1092	148.00	21344	237.00	3684	332.00	1210
59.00	272	149.00	4869	238.00	533	333.00	1618
60.00	278	150.00	1610	239.00	1777	334.00	9828
61.00	4075	151.00	2517	240.00	1340	335.00	3242
62.00	4269	152.00	1550	241.00	2593	336.00	471
63.00	12982	153.00	5939	242.00	5901	339.00	380
64.00	1936	154.00	4587	243.00	5968	340.00	206
65.00	6000	155.00	10663	244.00	87632	341.00	1690
66.00	494	156.00	17712	245.00	11553	342.00	400
67.00	443	157.00	3700	246.00	16384	343.00	133
68.00	6068	158.00	3598	247.00	3263	346.00	3539
69.00	321856	159.00	2716	248.00	883	347.00	681
70.00	1013	160.00	5770	249.00	2765	348.00	94
73.00	2617	161.00	9307	250.00	696	349.00	50
74.00	32400	162.00	2614	251.00	679	350.00	189
75.00	50472	163.00	717	252.00	887	351.00	263
76.00	18544	164.00	1288	253.00	1526	352.00	4832
77.00	385024	165.00	7494	254.00	3614	353.00	3035

Date : 08-MAR-2010 09:57

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00308a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0308.D
Spectrum: Average Spectrum: 6.930 to 6.941 min. (SUB)
Location of Maximum: 198.00
Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	25456	166.00	6051	255.00	443392	354.00	5464
79.00	22168	167.00	40984	256.00	63528	355.00	960
80.00	18200	168.00	19400	257.00	4523	356.00	130
81.00	24872	169.00	3075	258.00	23968	359.00	250
82.00	6274	170.00	1159	259.00	3845	361.00	125
83.00	5539	171.00	1600	260.00	638	362.00	65
84.00	536	172.00	3802	261.00	987	363.00	55
85.00	7594	173.00	5148	262.00	199	364.00	212
86.00	6756	174.00	8004	263.00	366	365.00	20808
87.00	3705	175.00	15589	264.00	741	366.00	3207
88.00	1585	176.00	4678	265.00	9453	367.00	343
89.00	744	177.00	7666	266.00	1220	370.00	374
90.00	52	178.00	2738	267.00	284	371.00	1140
91.00	5395	179.00	28720	270.00	382	372.00	8003
92.00	6269	180.00	19736	271.00	929	373.00	2323
93.00	38632	181.00	9296	272.00	1203	374.00	170
94.00	2861	182.00	1336	273.00	12349	377.00	202
95.00	638	183.00	832	274.00	35808	379.00	61
96.00	1847	184.00	2025	275.00	206016	383.00	2355
97.00	393	185.00	14787	276.00	26496	384.00	627
98.00	27512	186.00	113496	277.00	15883	385.00	226
99.00	24440	187.00	32368	278.00	2870	390.00	825
100.00	2163	188.00	3189	279.00	623	391.00	636
101.00	14789	189.00	6900	281.00	216	392.00	651
102.00	958	190.00	969	282.00	372	393.00	114
103.00	4942	191.00	3115	283.00	1749	397.00	166
104.00	9190	192.00	9004	284.00	1264	401.00	602
105.00	8409	193.00	9769	285.00	2912	402.00	2592
106.00	2446	194.00	1938	286.00	535	403.00	4155
107.00	112288	195.00	1418	288.00	116	404.00	1304
108.00	18200	196.00	25208	289.00	654	405.00	221
109.00	3314	197.00	4790	290.00	516	408.00	83
110.00	215232	198.00	834112	291.00	321	410.00	139
111.00	31216	199.00	55208	292.00	893	415.00	149
112.00	3826	200.00	4189	293.00	3509	421.00	3221

Date : 08-MAR-2010 09:57

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00308a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0308.D
Spectrum: Average Spectrum: 6.930 to 6.941 min. (SUB)
Location of Maximum: 198.00
Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	1261	201.00	4156	294.00	818	422.00	3187
114.00	186	203.00	5453	295.00	1071	423.00	26048
115.00	268	204.00	27544	296.00	51048	424.00	5168
116.00	6209	205.00	46880	297.00	6730	425.00	401
117.00	82824	206.00	203584	298.00	469	428.00	55
118.00	6253	207.00	26192	299.00	129	434.00	52
119.00	1049	208.00	6593	301.00	732	435.00	104
120.00	1304	209.00	2007	302.00	955	436.00	58
121.00	377	210.00	2765	303.00	6081	437.00	231
122.00	7365	211.00	7421	304.00	1523	438.00	207
123.00	11277	212.00	654	305.00	249	439.00	436
124.00	5258	213.00	755	306.00	119	441.00	68800
125.00	5064	214.00	69	308.00	725	442.00	486848
127.00	430400	215.00	2134	309.00	543	443.00	94640
128.00	30760	216.00	4396	310.00	812	444.00	8647
129.00	160192	217.00	52216	311.00	50	445.00	603
130.00	13908	218.00	6321	312.00	145		

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305t.b\7DF0308T.D

Date : 08-MAR-2010 09:57

Client ID:

Instrument: a4hp7.i

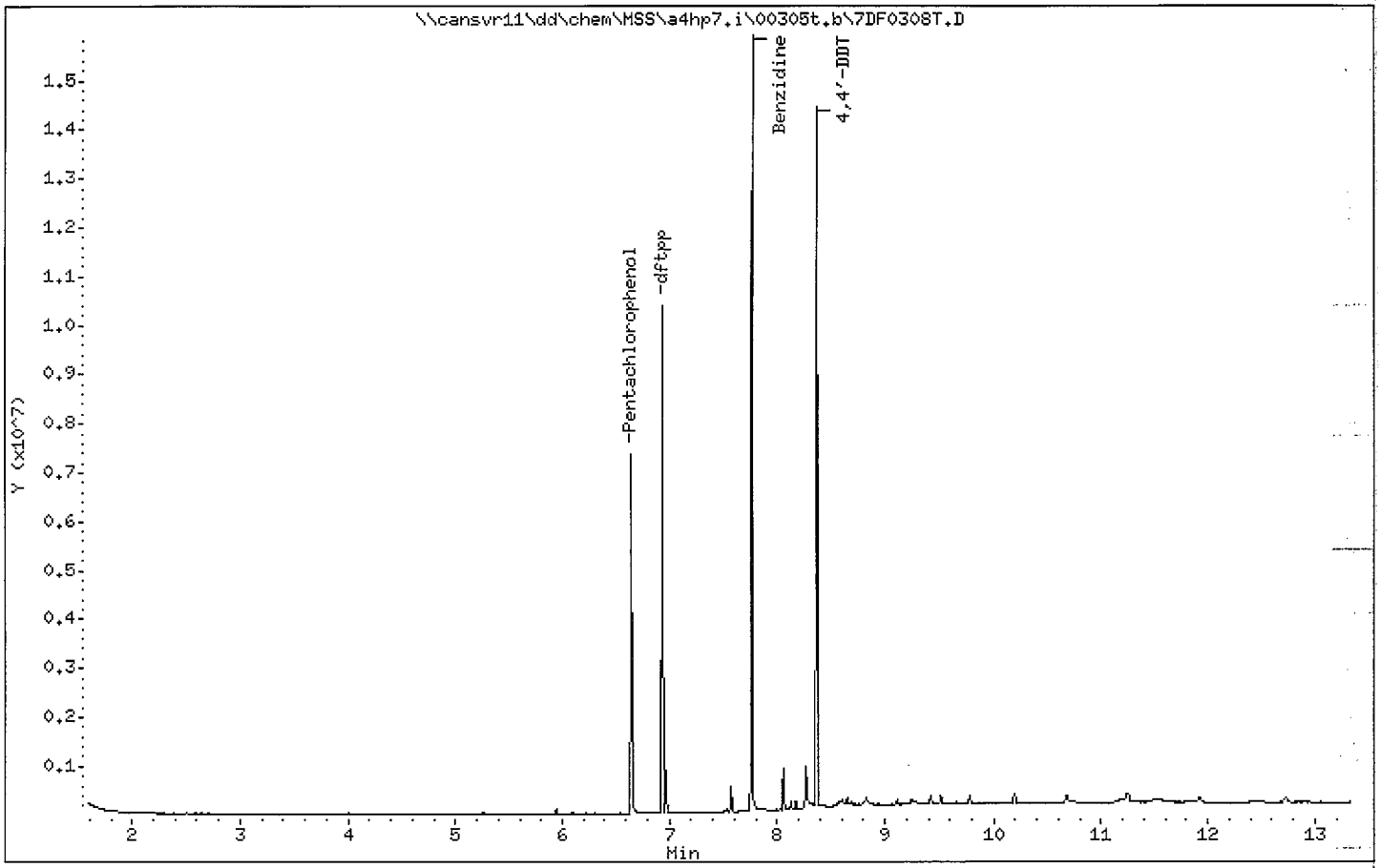
Sample Info: dftpp,00308a.b,dftpp390

Volume Injected (uL): 1.0

Operator: 001710

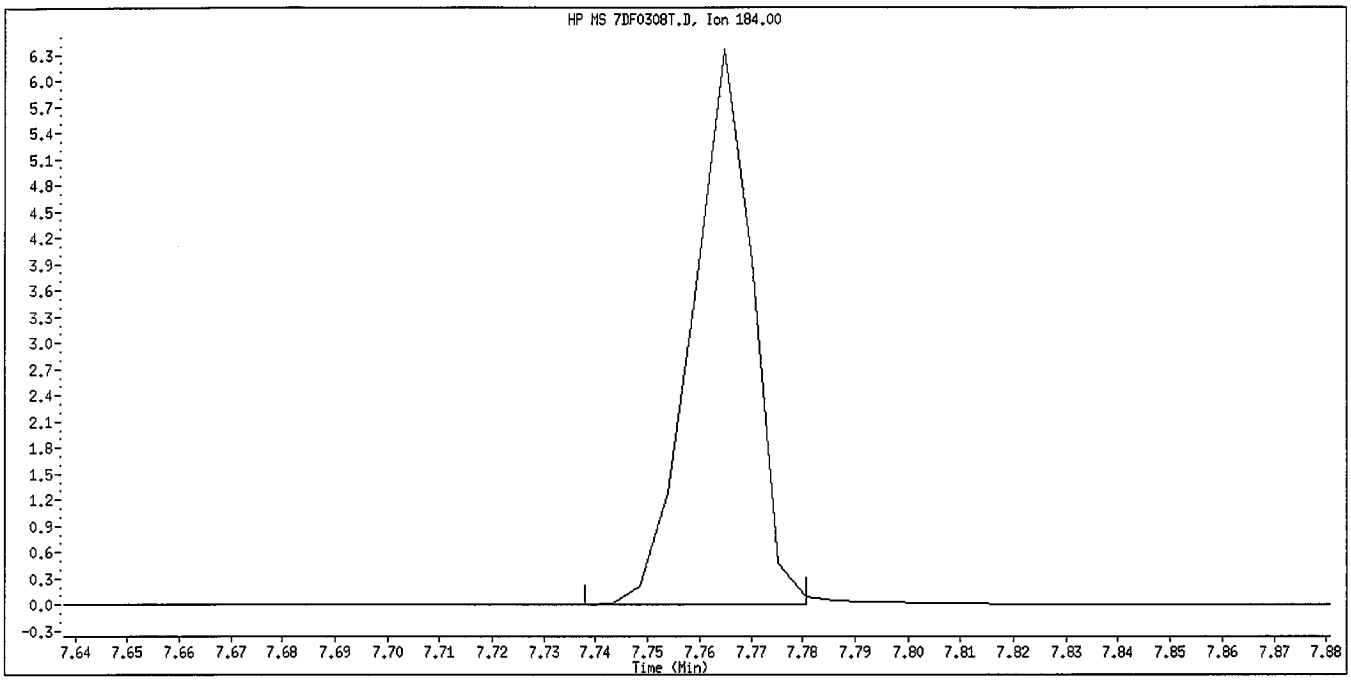
Column phase:

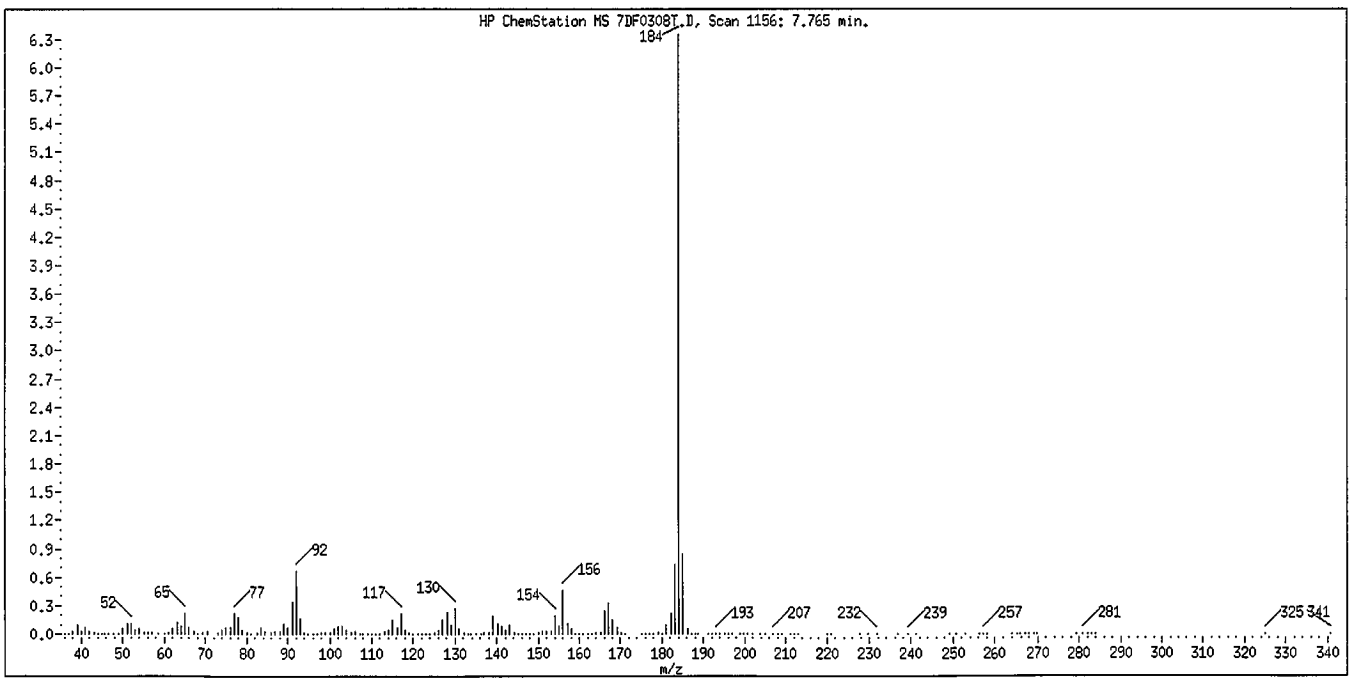
Column diameter: 2.00



Data File: 7DF0308T.D
Inj Date: 08-MAR-2010 09:57
Instrument ID: a4hp7.i
Compound Name: Benzidine
Operator Name: 001710
Report Date: 03/08/2010

TAILING FACTOR

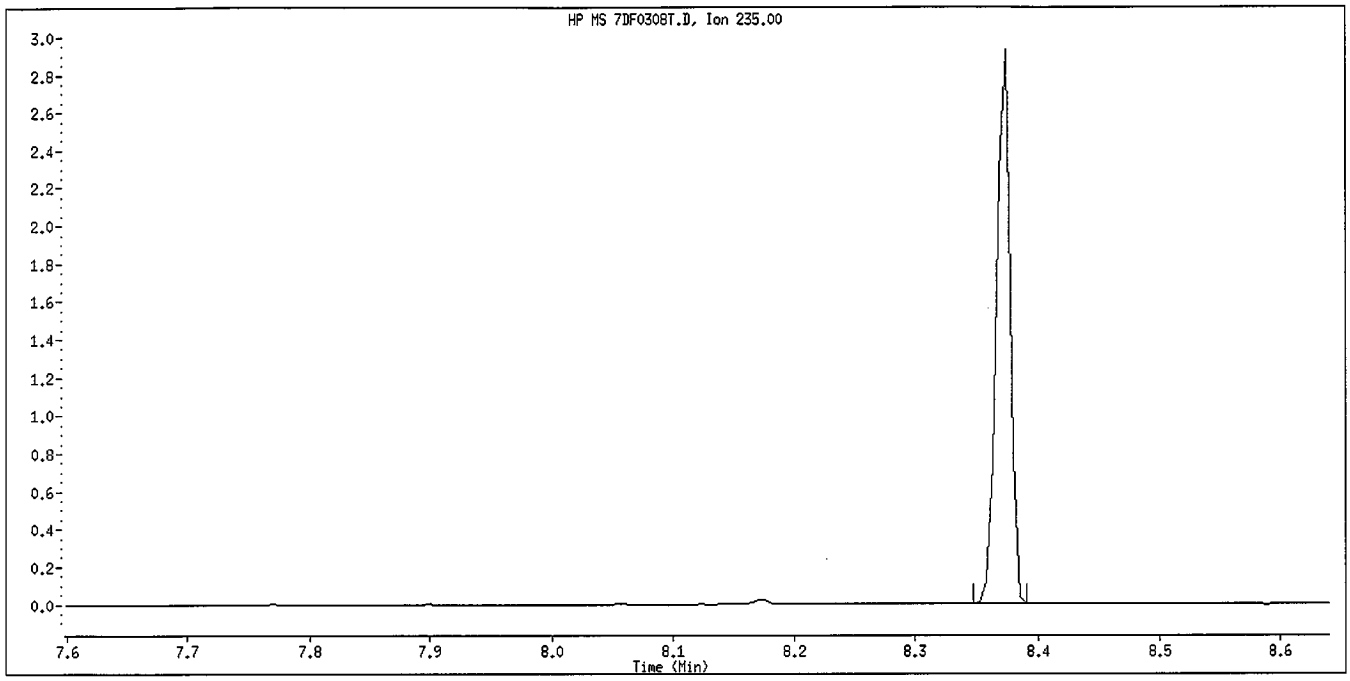




Tailing Factor = 0.75 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 7.750704 T2 = 7.764633 T3 = 7.775081

Data File: 7DF0308T.D
Inj Date: 08-MAR-2010 09:57
Instrument ID: a4hp7.i
Compound Name: 4,4'-DDT
Operator Name: 001710
Report Date: 03/08/2010

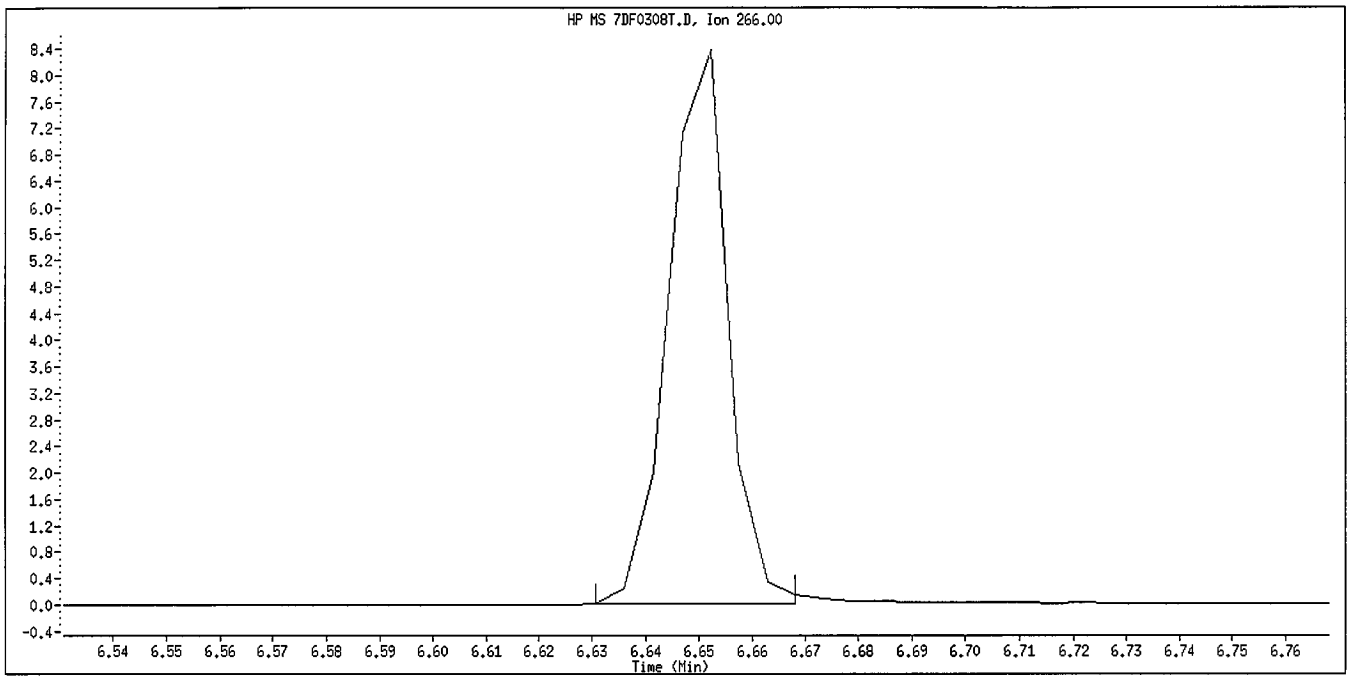
DEGRADATION REPORT

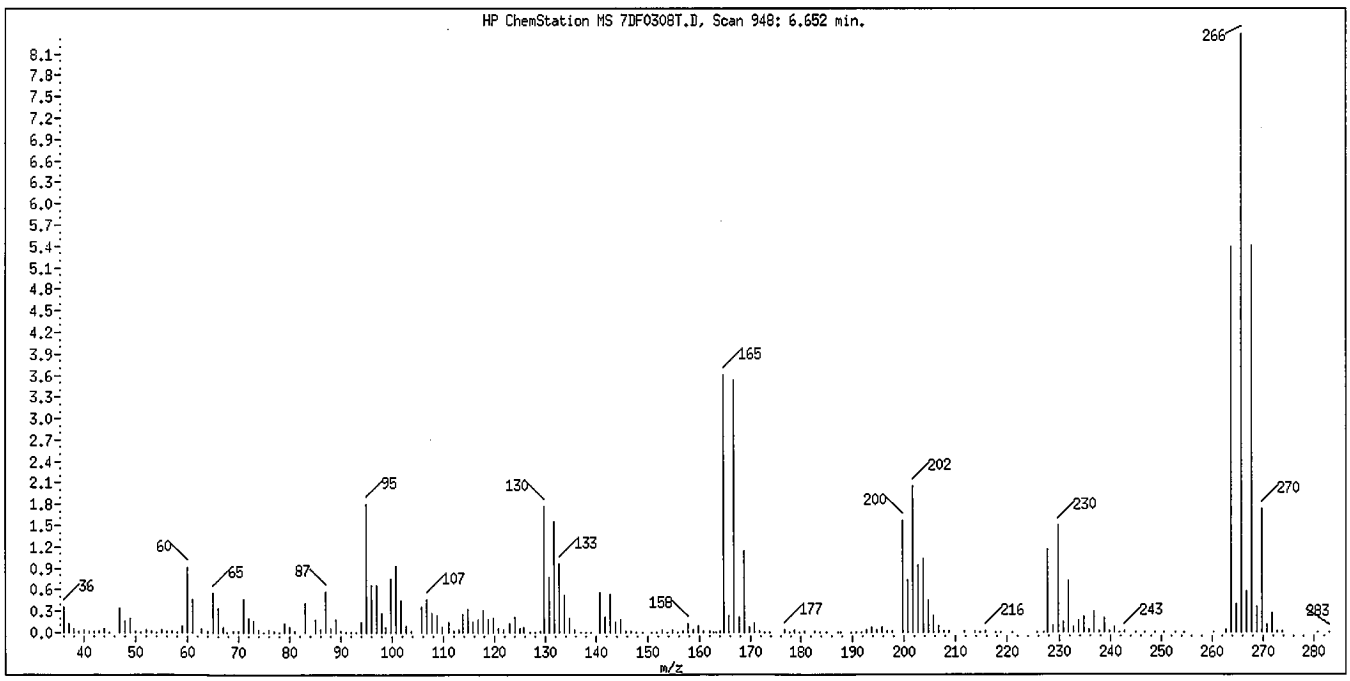


Degradation = 0% Good
Acceptance Criteria 0 - 20 %
DDT Area = 2209898
DDE Area = 0
DDD Area = 0

Data File: 7DF0308T.D
Inj Date: 08-MAR-2010 09:57
Instrument ID: a4hp7.i
Compound Name: Pentachlorophenol
Operator Name: 001710
Report Date: 03/08/2010

TAILING FACTOR





Tailing Factor = 0.647 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.63791 T2 = 6.652117 T3 = 6.66131

Date : 09-MAR-2010 09:11

Client ID:

Instrument: a4hp7.i

Sample Info: dftpp,00309a.b,dftpp390

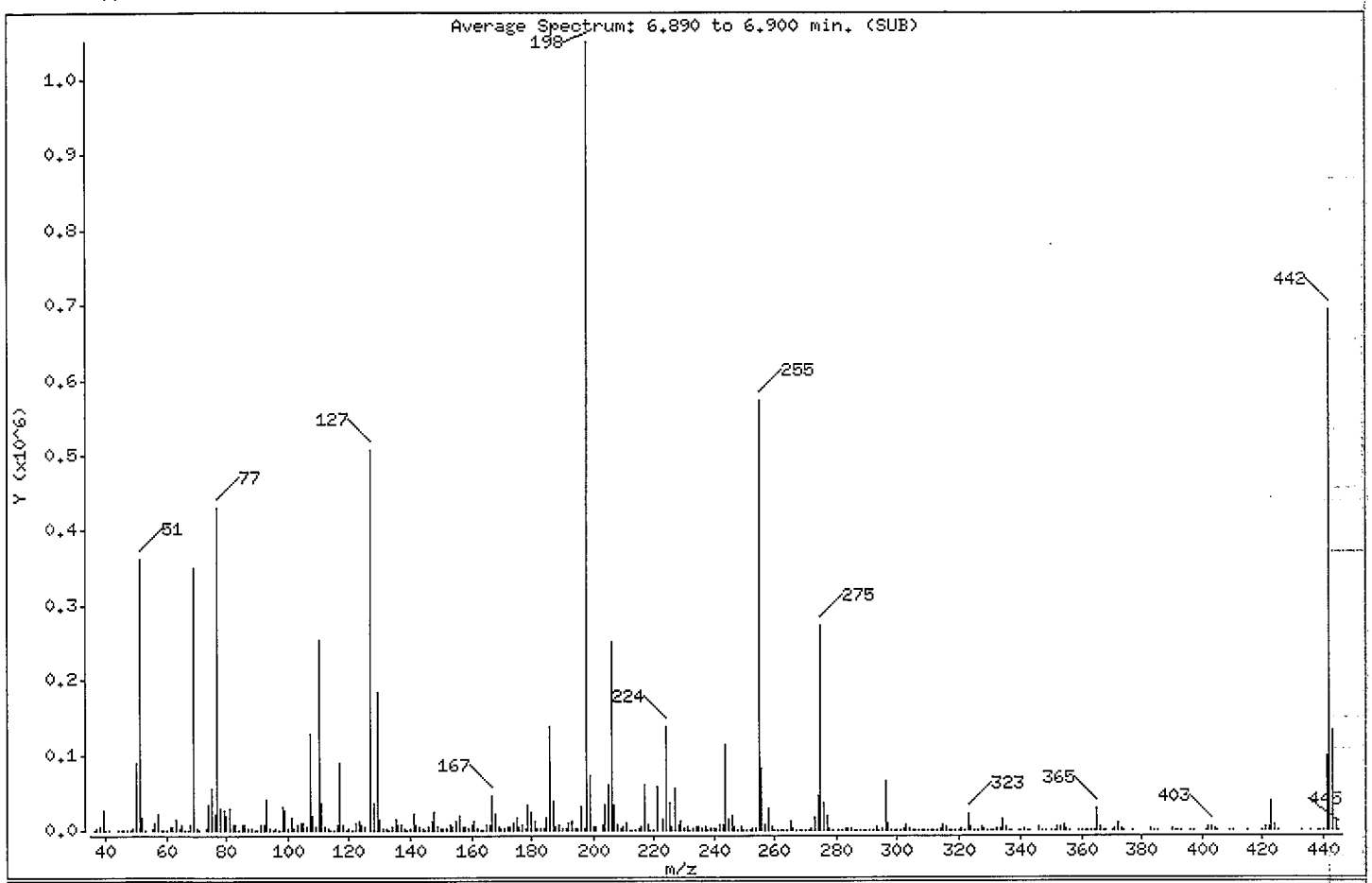
Operator: 001710

Column phase:

Column diameter: 2.00

1 dftpp

akmw 3/10/10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	34.43
68	Less than 2.00% of mass 69	0.60 (1.80)
69	Mass 69 relative abundance	33.41
70	Less than 2.00% of mass 69	0.13 (0.40)
127	25.00 - 75.00% of mass 198	48.25
197	Less than 1.00% of mass 198	0.34
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 30.00% of mass 198	26.04
365	Greater than 0.75% of mass 198	2.70
441	Present, but less than mass 443	9.48
442	40.00 - 110.00% of mass 198	66.03
443	15.00 - 24.00% of mass 442	12.66 (19.17)

Date : 09-MAR-2010 09:11

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00309a,b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0309.D
Spectrum: Average Spectrum: 6.890 to 6.900 min. (SUB)
Location of Maximum: 198.00
Number of points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	393	131.00	2732	223.00	13357	314.00	3084
37.00	1398	132.00	1401	224.00	137600	315.00	7280
38.00	3883	133.00	599	225.00	35744	316.00	4164
39.00	26544	134.00	5211	226.00	3929	317.00	805
40.00	234	135.00	15107	227.00	55672	318.00	104
41.00	542	136.00	6096	228.00	7176	319.00	168
44.00	648	137.00	7843	229.00	11983	320.00	271
45.00	600	138.00	1289	230.00	2055	321.00	2044
46.00	58	139.00	1010	231.00	4832	322.00	1058
47.00	288	140.00	2158	232.00	1034	323.00	22312
48.00	339	141.00	22440	233.00	1250	324.00	4173
49.00	2690	142.00	7022	234.00	3733	325.00	407
50.00	90024	143.00	5005	235.00	4064	326.00	443
51.00	361856	144.00	1727	236.00	2826	327.00	3835
52.00	17720	145.00	1204	237.00	4566	328.00	2234
53.00	700	146.00	3948	238.00	607	329.00	292
55.00	1326	147.00	11272	239.00	2215	330.00	76
56.00	10326	148.00	24552	240.00	1679	331.00	87
57.00	22720	149.00	5141	241.00	3315	332.00	1354
58.00	1027	150.00	1739	242.00	7175	333.00	2308
59.00	449	151.00	2992	243.00	7071	334.00	13302
60.00	298	152.00	1523	244.00	114024	335.00	3759
61.00	3998	153.00	7990	245.00	14531	336.00	391
62.00	5201	154.00	5890	246.00	20264	337.00	50
63.00	13739	155.00	12549	247.00	4225	339.00	240
64.00	1921	156.00	19840	248.00	991	340.00	349
65.00	7250	157.00	4553	249.00	4176	341.00	2705
66.00	456	158.00	4276	250.00	698	342.00	790
67.00	357	159.00	3524	251.00	1045	343.00	94
68.00	6315	160.00	7083	252.00	1101	346.00	4599
69.00	351104	161.00	11149	253.00	2090	347.00	963
70.00	1396	162.00	3325	254.00	2061	348.00	52
71.00	41	163.00	1005	255.00	572480	350.00	143
73.00	2747	164.00	1174	256.00	82200	351.00	367
74.00	34728	165.00	8412	257.00	6260	352.00	5953

Date : 09-MAR-2010 09:11

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00309a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0309.D
Spectrum: Average Spectrum: 6.890 to 6.900 min. (SUB)
Location of Maximum: 198.00
Number of points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	56096	166.00	7571	258.00	30072	353.00	4759
76.00	20896	167.00	44832	259.00	4581	354.00	6685
77.00	429312	168.00	21744	260.00	1019	355.00	1346
78.00	29912	169.00	4005	261.00	926	356.00	52
79.00	25624	170.00	1487	262.00	146	359.00	447
80.00	19864	171.00	2055	263.00	336	360.00	194
81.00	28640	172.00	4222	264.00	651	361.00	71
82.00	6850	173.00	5238	265.00	11285	362.00	56
83.00	6202	174.00	9964	266.00	1552	363.00	71
84.00	685	175.00	17864	267.00	134	364.00	321
85.00	7147	176.00	5822	268.00	57	365.00	28360
86.00	7447	177.00	8237	269.00	9	366.00	3783
87.00	3437	178.00	3008	270.00	759	367.00	273
88.00	1468	179.00	33840	271.00	975	368.00	58
89.00	768	180.00	24232	272.00	1429	370.00	759
90.00	433	181.00	11258	273.00	16135	371.00	1714
91.00	6496	182.00	1692	274.00	45936	372.00	10752
92.00	7005	183.00	1212	275.00	273664	373.00	2861
93.00	41400	184.00	2974	276.00	35776	374.00	404
94.00	3578	185.00	16085	277.00	20024	377.00	240
95.00	853	186.00	136576	278.00	3447	383.00	2944
96.00	2680	187.00	38144	279.00	740	384.00	876
97.00	747	188.00	4108	281.00	402	385.00	307
98.00	31416	189.00	7319	282.00	521	390.00	1246
99.00	26784	190.00	1495	283.00	1904	391.00	792
100.00	2421	191.00	3253	284.00	1448	392.00	779
101.00	16616	192.00	10756	285.00	3563	393.00	64
102.00	1281	193.00	12229	286.00	673	396.00	50
103.00	6146	194.00	2181	287.00	97	397.00	82
104.00	10267	195.00	1504	288.00	100	401.00	439
105.00	9001	196.00	32312	289.00	892	402.00	3768
106.00	3805	197.00	3540	290.00	774	403.00	5744
107.00	127600	198.00	1050624	291.00	747	404.00	2174
108.00	20392	199.00	72072	292.00	1008	405.00	225
109.00	3823	200.00	5744	293.00	4795	409.00	54

Date : 09-MAR-2010 09:11

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00309a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0309.D
Spectrum: Average Spectrum: 6.890 to 6.900 min. (SUB)
Location of Maximum: 198.00
Number of points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	254656	201.00	4628	294.00	965	410.00	143
111.00	36344	203.00	6128	295.00	1690	415.00	233
112.00	4100	204.00	33504	296.00	65720	420.00	112
113.00	1288	205.00	59408	297.00	9517	421.00	4901
114.00	475	206.00	250944	298.00	700	422.00	5026
115.00	339	207.00	34360	299.00	91	423.00	37448
116.00	6911	208.00	8121	300.00	52	424.00	7520
117.00	89280	209.00	2409	301.00	917	425.00	772
118.00	6650	210.00	3836	302.00	1492	433.00	59
119.00	852	211.00	9296	303.00	7537	436.00	55
120.00	2052	212.00	347	304.00	2217	438.00	187
121.00	447	213.00	587	305.00	261	439.00	591
122.00	9070	214.00	358	306.00	58	440.00	329
123.00	12911	215.00	2577	307.00	146	441.00	99632
124.00	6199	216.00	5235	308.00	1113	442.00	693888
125.00	5559	217.00	60152	309.00	472	443.00	132992
127.00	507072	218.00	8001	310.00	703	444.00	12556
128.00	36480	219.00	825	311.00	224	445.00	769
129.00	183680	220.00	223	312.00	184		
130.00	15139	221.00	58496	313.00	662		

Date : 09-MAR-2010 09:11

Client ID:

Instrument: a4hp7.i

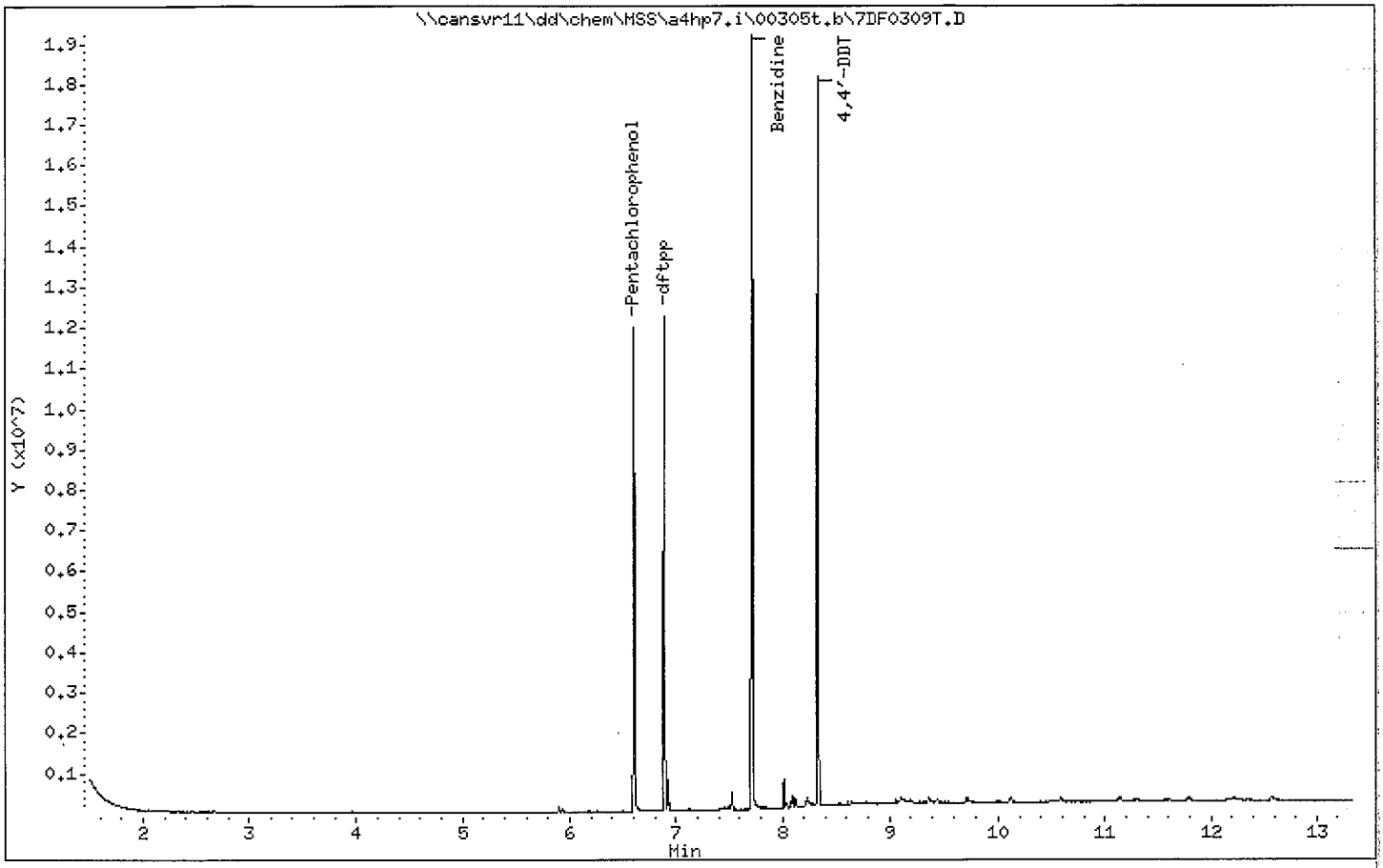
Sample Info: dftpp,00309a.b,dftpp390

Volume Injected (uL): 1.0

Operator: 001710

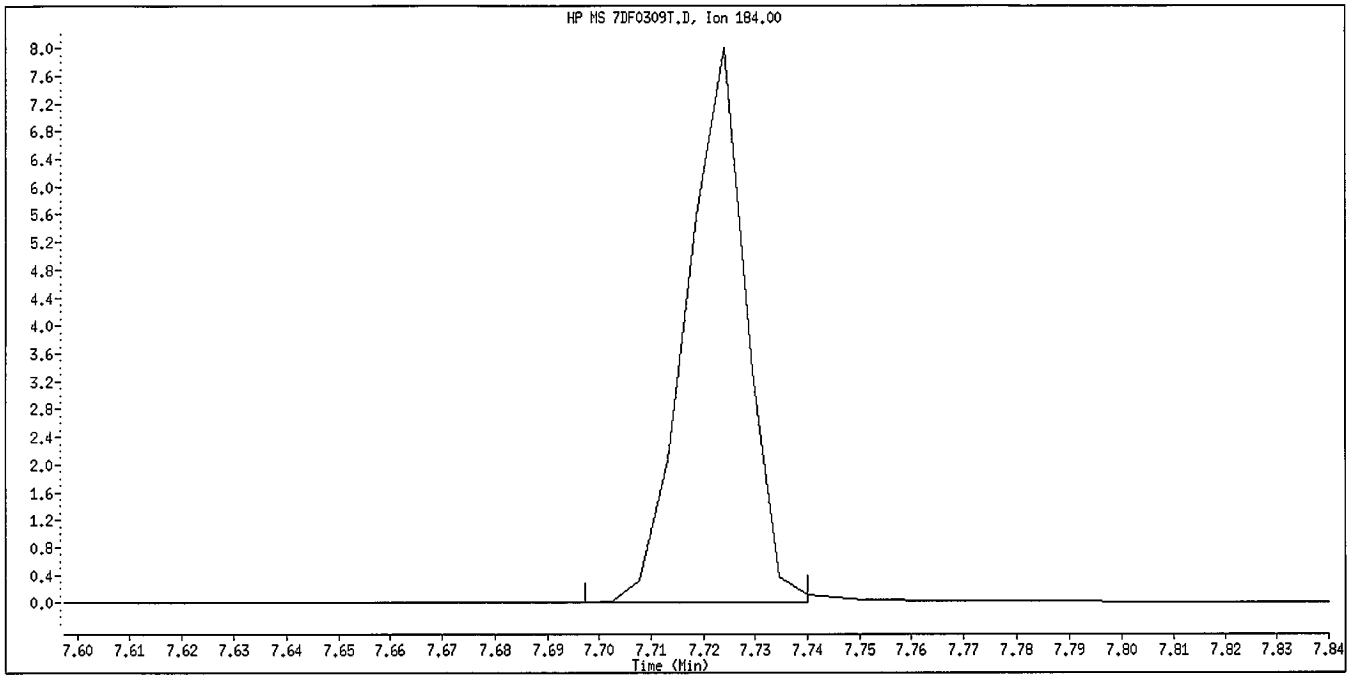
Column phase:

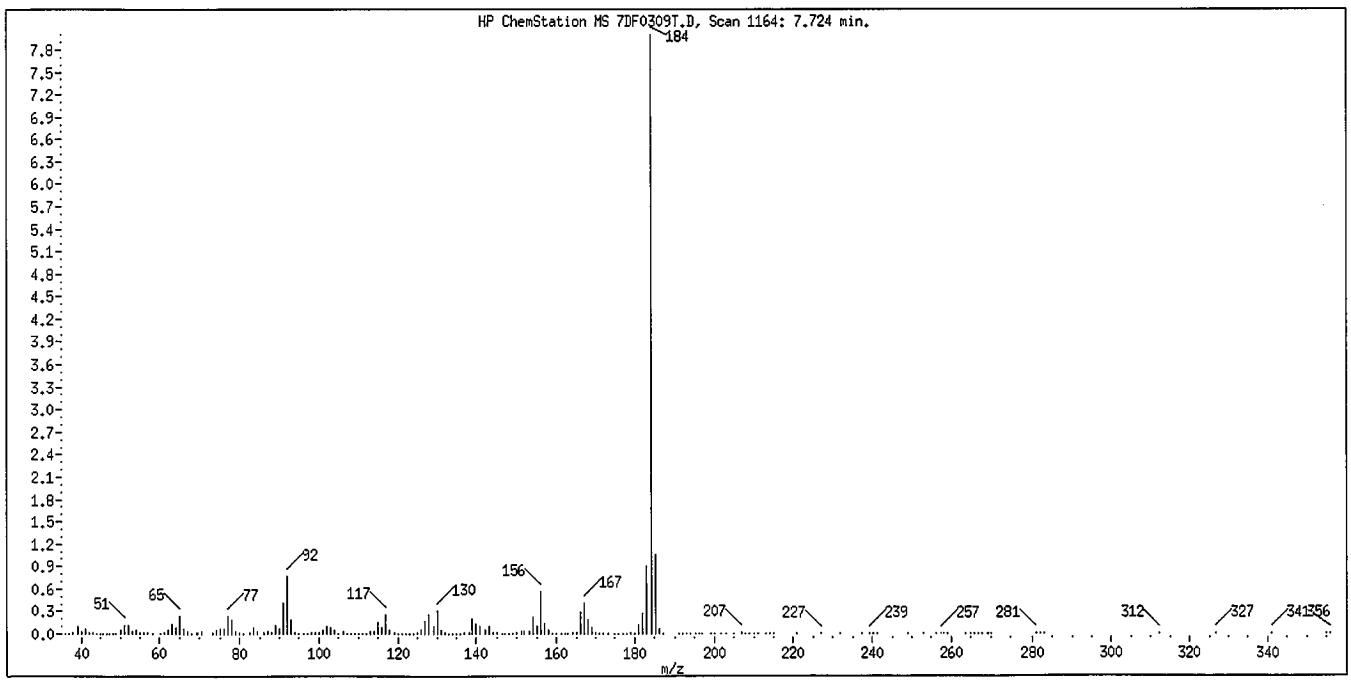
Column diameter: 2.00



Data File: 7DF0309T.D
Inj Date: 09-MAR-2010 09:11
Instrument ID: a4hp7.i
Compound Name: Benzidine
Operator Name: 001710
Report Date: 03/09/2010

TAILING FACTOR

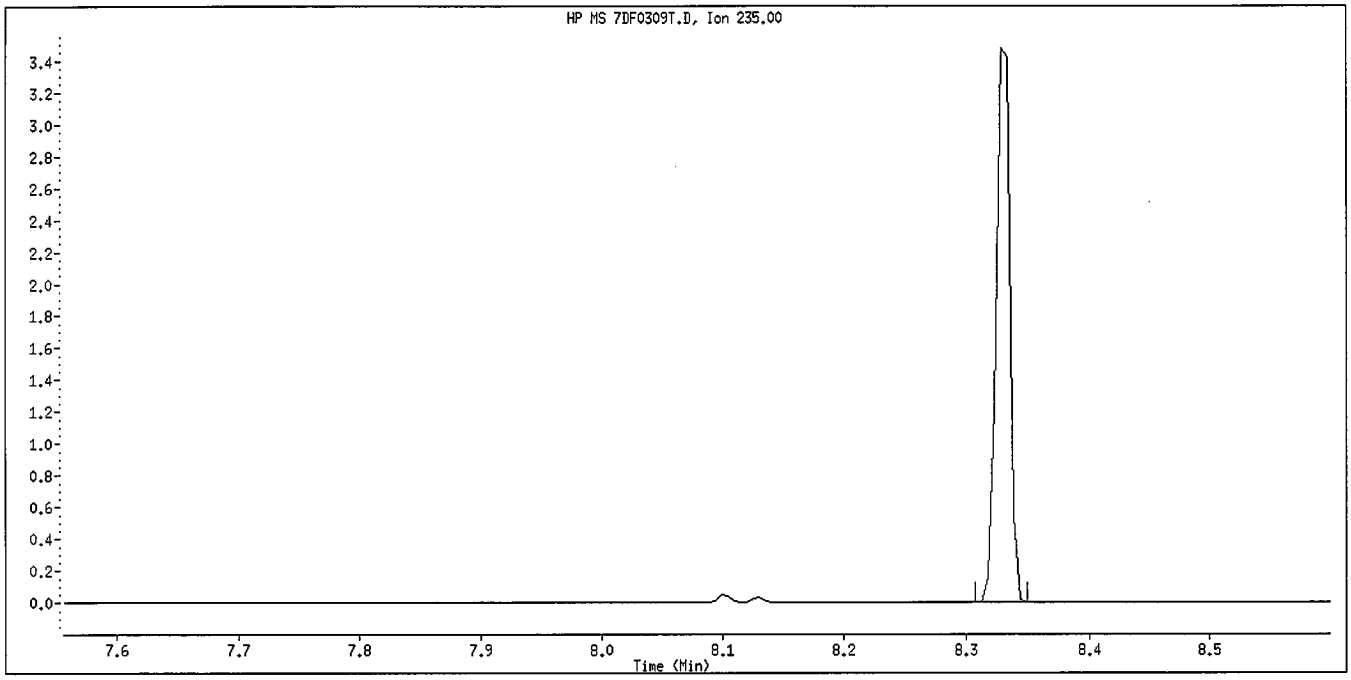




Tailing Factor = 0.682 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 7.709419 T2 = 7.723967 T3 = 7.733883

Data File: 7DF0309T.D
Inj Date: 09-MAR-2010 09:11
Instrument ID: a4hp7.i
Compound Name: 4,4'-DDT
Operator Name: 001710
Report Date: 03/09/2010

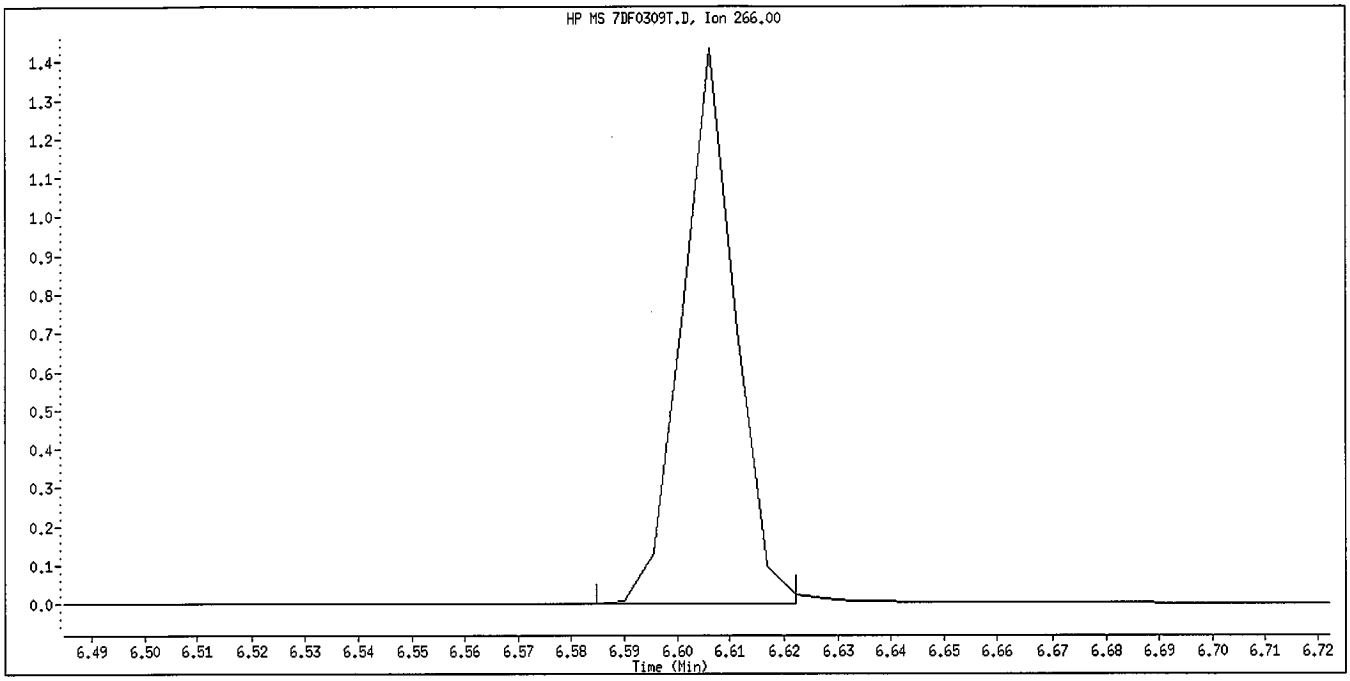
DEGRADATION REPORT

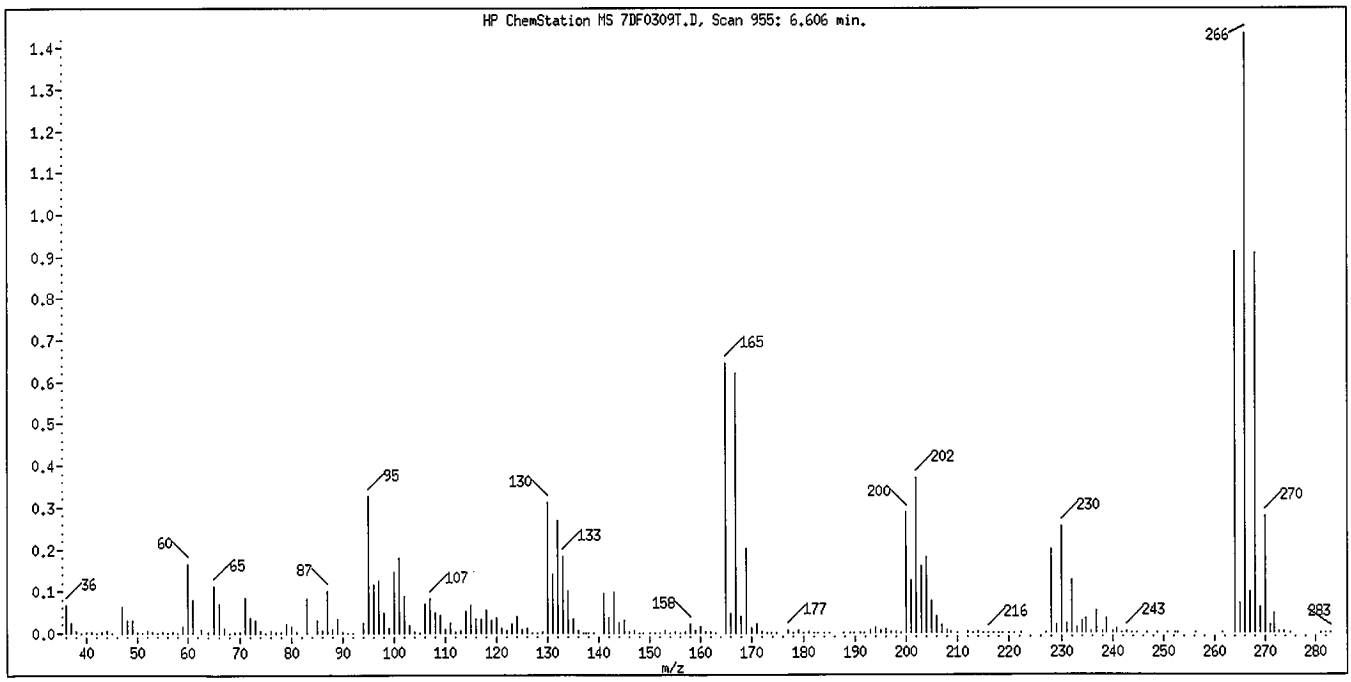


Degradation = 0% Good
Acceptance Criteria 0 - 20 %
DDT Area = 2840362
DDE Area = 0
DDD Area = 0

Data File: 7DF0309T.D
Inj Date: 09-MAR-2010 09:11
Instrument ID: a4hp7.i
Compound Name: Pentachlorophenol
Operator Name: 001710
Report Date: 03/09/2010

TAILING FACTOR





Tailing Factor = 0.976 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.595553 T2 = 6.6061 T3 = 6.616395

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\7DF0312.D

Date : 12-MAR-2010 09:10

Client ID:

Instrument: a4hp7.i

Sample Info: dftpp,00312a.b,dftpp390

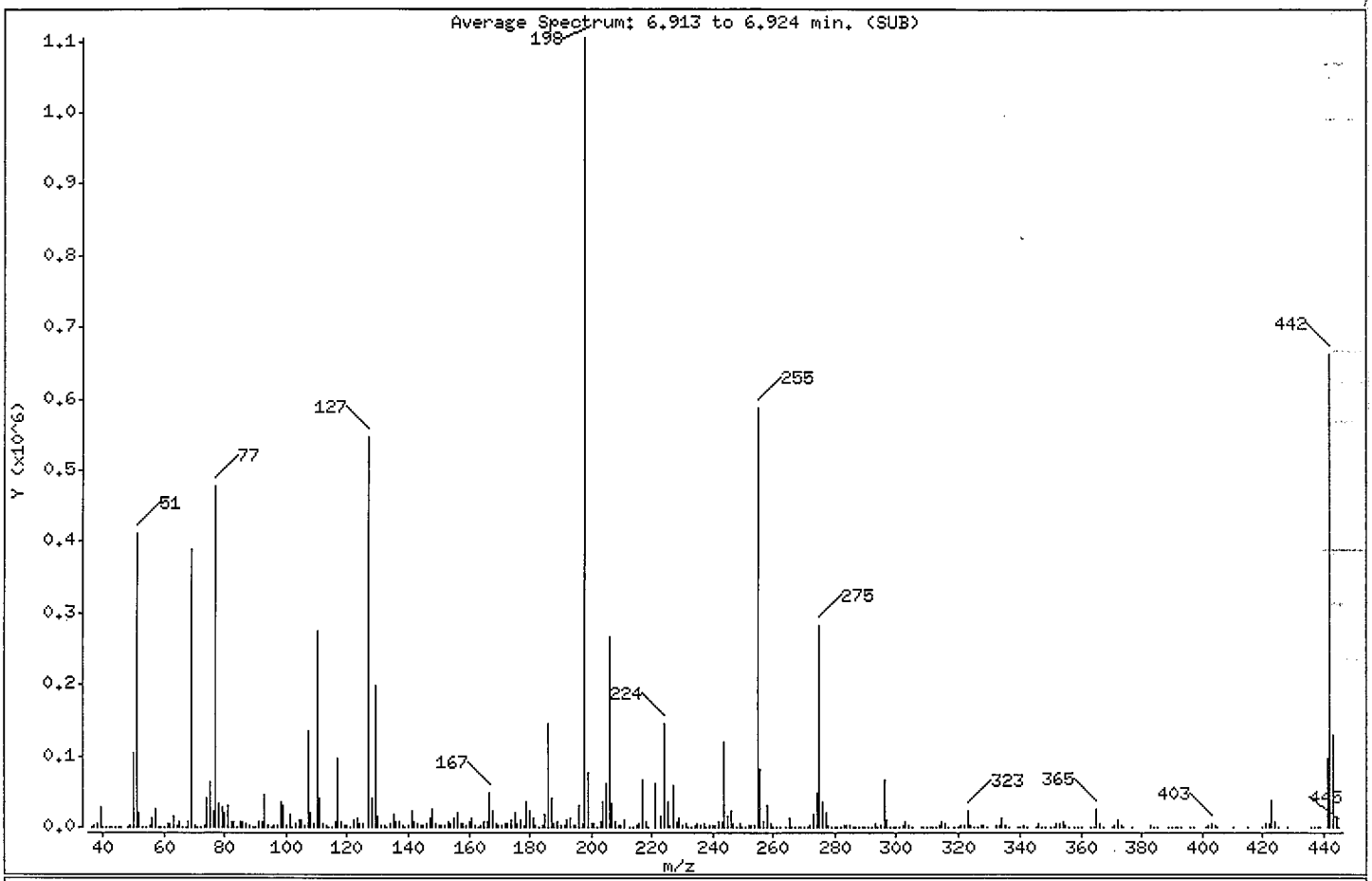
Operator: 001710

Column phase:

Column diameter: 2.00

1 dftpp

OKme 3/17/10



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	37.20
68	Less than 2.00% of mass 69	0.69 (1.96)
69	Mass 69 relative abundance	35.09
70	Less than 2.00% of mass 69	0.18 (0.52)
127	25.00 - 75.00% of mass 198	49.43
197	Less than 1.00% of mass 198	0.55
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	25.63
365	Greater than 0.75% of mass 198	2.41
441	Present, but less than mass 443	8.72
442	40.00 - 110.00% of mass 198	60.04
443	15.00 - 24.00% of mass 442	11.69 (19.47)

Date : 12-MAR-2010 09:10

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00312a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0312.D
Spectrum: Average Spectrum: 6.913 to 6.924 min. (SUB)
Location of Maximum: 198.00
Number of points: 352

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	182	127.00	545600	217.00	65168	311.00	294
37.00	1740	128.00	39664	218.00	8283	312.00	113
38.00	4573	129.00	197440	219.00	709	313.00	693
39.00	28648	130.00	16464	221.00	62048	314.00	3053
40.00	547	131.00	3000	223.00	14966	315.00	7782
41.00	1144	132.00	1692	224.00	145472	316.00	4184
42.00	65	133.00	704	225.00	36208	317.00	825
43.00	439	134.00	5434	226.00	3730	319.00	53
44.00	159	135.00	18016	227.00	58112	320.00	207
45.00	360	136.00	6734	228.00	7518	321.00	2173
46.00	61	137.00	8465	229.00	12288	322.00	1300
48.00	221	138.00	1791	230.00	1571	323.00	22240
49.00	2763	139.00	809	231.00	5802	324.00	3800
50.00	104080	140.00	2632	232.00	1050	325.00	382
51.00	410688	141.00	23944	233.00	1106	326.00	416
52.00	20376	142.00	8525	234.00	3335	327.00	3410
53.00	860	143.00	5447	235.00	4357	328.00	2295
54.00	137	144.00	1500	236.00	2597	329.00	536
55.00	2521	145.00	1807	237.00	4538	332.00	1567
56.00	11493	146.00	4478	238.00	754	333.00	2058
57.00	26576	147.00	12380	239.00	2297	334.00	13773
58.00	1201	148.00	25368	240.00	2046	335.00	3476
59.00	210	149.00	5241	241.00	2959	336.00	529
60.00	118	150.00	2012	242.00	7229	339.00	357
61.00	5112	151.00	2996	243.00	7095	340.00	238
62.00	5734	152.00	2189	244.00	118304	341.00	2453
63.00	15760	153.00	7837	245.00	14944	342.00	581
64.00	2395	154.00	5862	246.00	21800	345.00	67
65.00	8199	155.00	13471	247.00	4352	346.00	4870
66.00	696	156.00	21136	248.00	1068	347.00	765
67.00	507	157.00	4321	249.00	4205	348.00	70
68.00	7578	158.00	4115	250.00	847	350.00	163
69.00	387328	159.00	3166	251.00	984	351.00	395
70.00	2024	160.00	7686	252.00	1313	352.00	6020
71.00	542	161.00	11692	253.00	2520	353.00	4388

Date : 12-MAR-2010 09:10

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00312a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0312.D
Spectrum: Average Spectrum: 6.913 to 6.924 min. (SUB)
Location of Maximum: 198.00
Number of points: 352

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	415	162.00	3052	254.00	2177	354.00	6565
73.00	2718	163.00	1008	255.00	585280	355.00	1464
74.00	40280	164.00	1918	256.00	82456	356.00	128
75.00	63568	165.00	8823	257.00	6793	358.00	153
76.00	22792	166.00	7305	258.00	31608	359.00	320
77.00	477248	167.00	49264	259.00	4990	360.00	72
78.00	32016	168.00	22808	260.00	1109	363.00	66
79.00	27320	169.00	3879	261.00	1128	364.00	219
80.00	20696	170.00	1530	262.00	113	365.00	26640
81.00	31400	171.00	2285	264.00	907	366.00	4016
82.00	7928	172.00	4225	265.00	12120	367.00	355
83.00	8725	173.00	5996	266.00	1076	370.00	597
84.00	1144	174.00	10411	267.00	5	371.00	1583
85.00	7543	175.00	19384	268.00	221	372.00	10555
86.00	8138	176.00	5985	269.00	192	373.00	2728
87.00	3972	177.00	9378	270.00	1123	374.00	306
88.00	1732	178.00	2783	271.00	1148	377.00	334
89.00	974	179.00	35896	272.00	1476	383.00	2654
90.00	349	180.00	23824	273.00	17144	384.00	803
91.00	6686	181.00	12220	274.00	47008	385.00	169
92.00	7749	182.00	2030	275.00	282944	389.00	53
93.00	45488	183.00	1171	276.00	36280	390.00	1198
94.00	3175	184.00	3088	277.00	21560	391.00	731
95.00	1136	185.00	18352	278.00	3466	392.00	835
96.00	2752	186.00	144512	279.00	751	393.00	59
97.00	1294	187.00	40448	280.00	54	396.00	53
98.00	34648	188.00	4303	281.00	146	397.00	58
99.00	29912	189.00	8744	282.00	521	401.00	764
100.00	3180	190.00	1557	283.00	2453	402.00	3273
101.00	17552	191.00	3737	284.00	1819	403.00	5813
102.00	828	192.00	10691	285.00	3657	404.00	2034
103.00	6295	193.00	11875	286.00	440	405.00	226
104.00	11184	194.00	2460	287.00	50	410.00	179
105.00	10312	195.00	1734	288.00	224	415.00	315
106.00	3190	196.00	31616	289.00	977	420.00	92

Date : 12-MAR-2010 09:10

Client ID: Instrument: a4hp7.i

Sample Info: dftpp,00312a.b,dftpp390

Operator: 001710

Column phase: Column diameter: 2.00

Data File: 7DF0312.D
Spectrum: Average Spectrum: 6.913 to 6.924 min. (SUB)
Location of Maximum: 198.00
Number of points: 352

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	135360	197.00	6114	290.00	666	421.00	4972
108.00	20952	198.00	1103872	291.00	474	422.00	4648
109.00	4266	199.00	75120	292.00	1053	423.00	38248
110.00	274176	200.00	4881	293.00	4929	424.00	7054
111.00	40184	201.00	5915	294.00	1096	425.00	791
112.00	4701	202.00	341	295.00	1382	428.00	62
113.00	1585	203.00	6346	296.00	65840	436.00	118
114.00	420	204.00	35552	297.00	9196	437.00	178
115.00	388	205.00	59912	298.00	786	438.00	122
116.00	7936	206.00	266368	299.00	78	439.00	280
117.00	96056	207.00	33248	300.00	111	441.00	96312
118.00	6820	208.00	8724	301.00	813	442.00	662848
119.00	1269	209.00	2578	302.00	1367	443.00	129032
120.00	1915	210.00	2084	303.00	7746	444.00	11952
121.00	699	211.00	10107	304.00	1896	445.00	669
122.00	9266	213.00	1068	305.00	170		
123.00	13222	214.00	378	308.00	658		
124.00	5965	215.00	2738	309.00	702		
125.00	6192	216.00	5045	310.00	993		

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00305t.b\7DF0312T.D

Date : 12-MAR-2010 09:10

Client ID:

Instrument: a4hp7.i

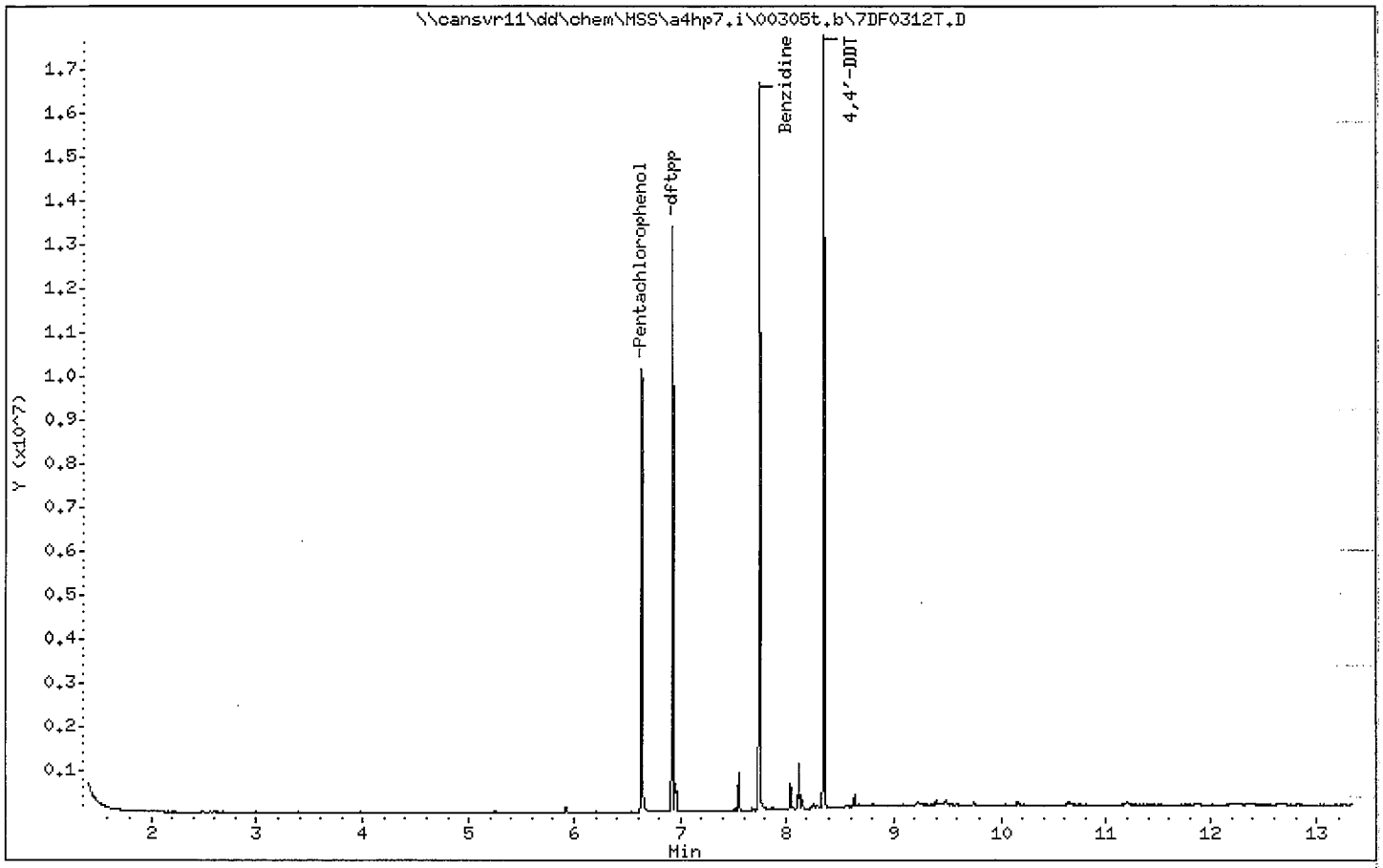
Sample Info: dftpp,00312a.b,dftpp390

Volume Injected (uL): 1.0

Operator: 001710

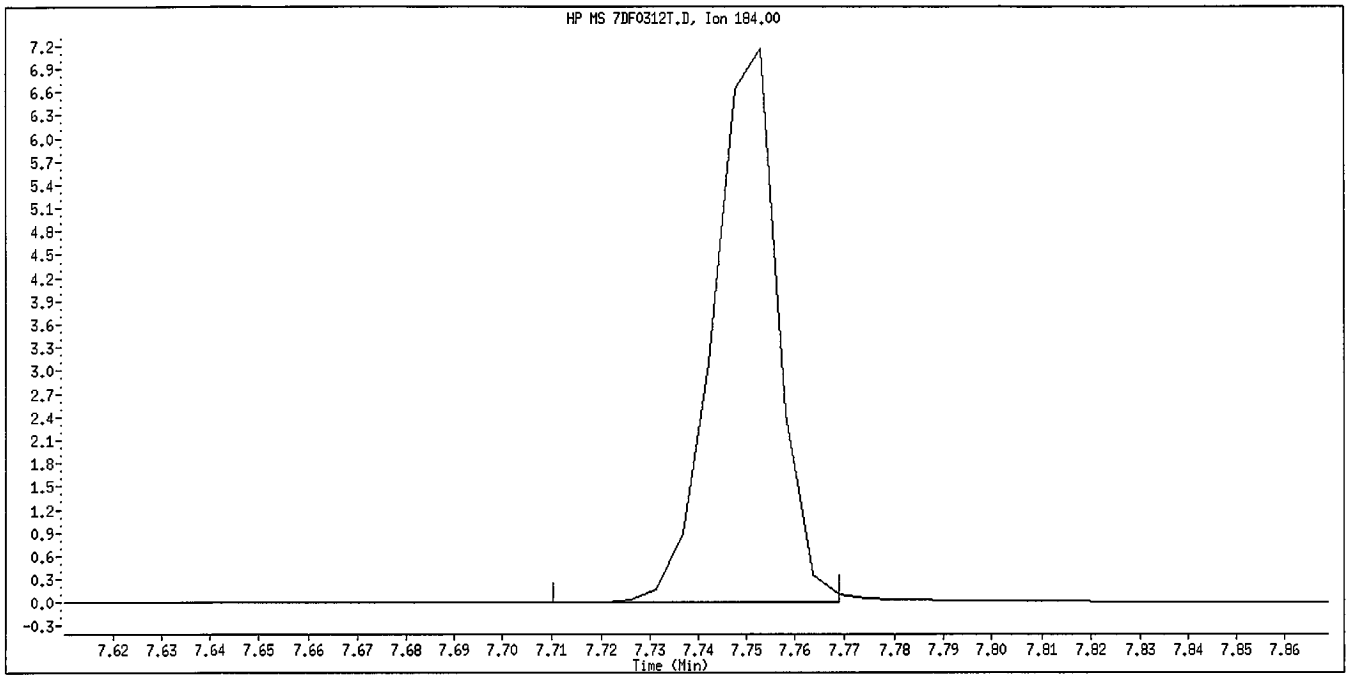
Column phase:

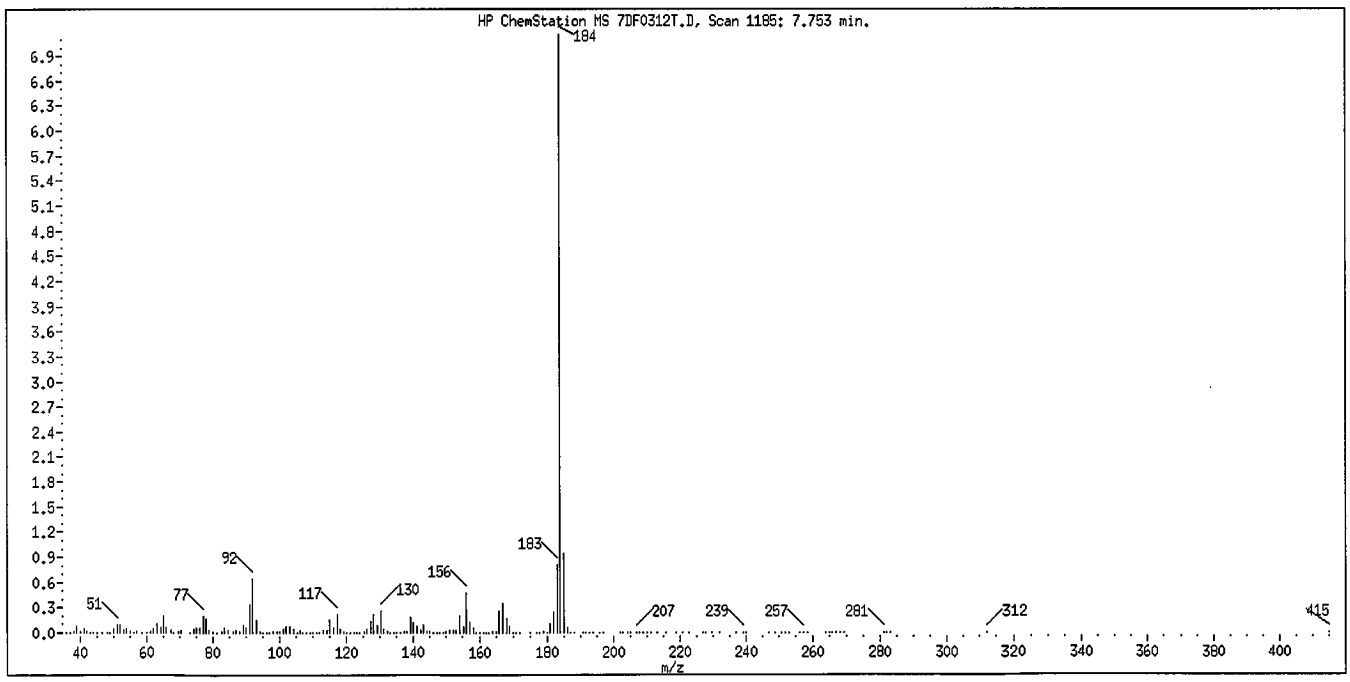
Column diameter: 2.00



Data File: 7DF0312T.D
Inj Date: 12-MAR-2010 09:10
Instrument ID: a4hp7.i
Compound Name: Benzidine
Operator Name: 001710
Report Date: 03/12/2010

TAILING FACTOR

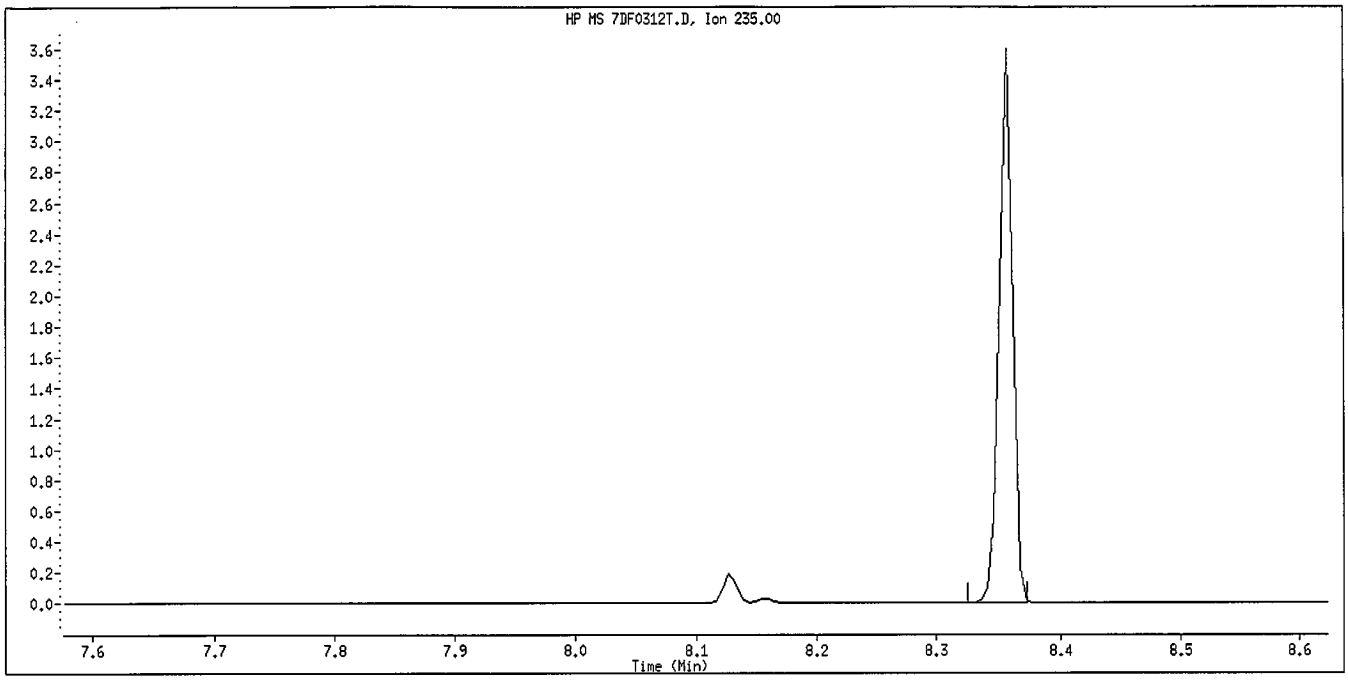




Tailing Factor = 0.56 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 7.735454 T2 = 7.752867 T3 = 7.762623

Data File: 7DF0312T.D
Inj Date: 12-MAR-2010 09:10
Instrument ID: a4hp7.i
Compound Name: 4,4'-DDT
Operator Name: 001710
Report Date: 03/12/2010

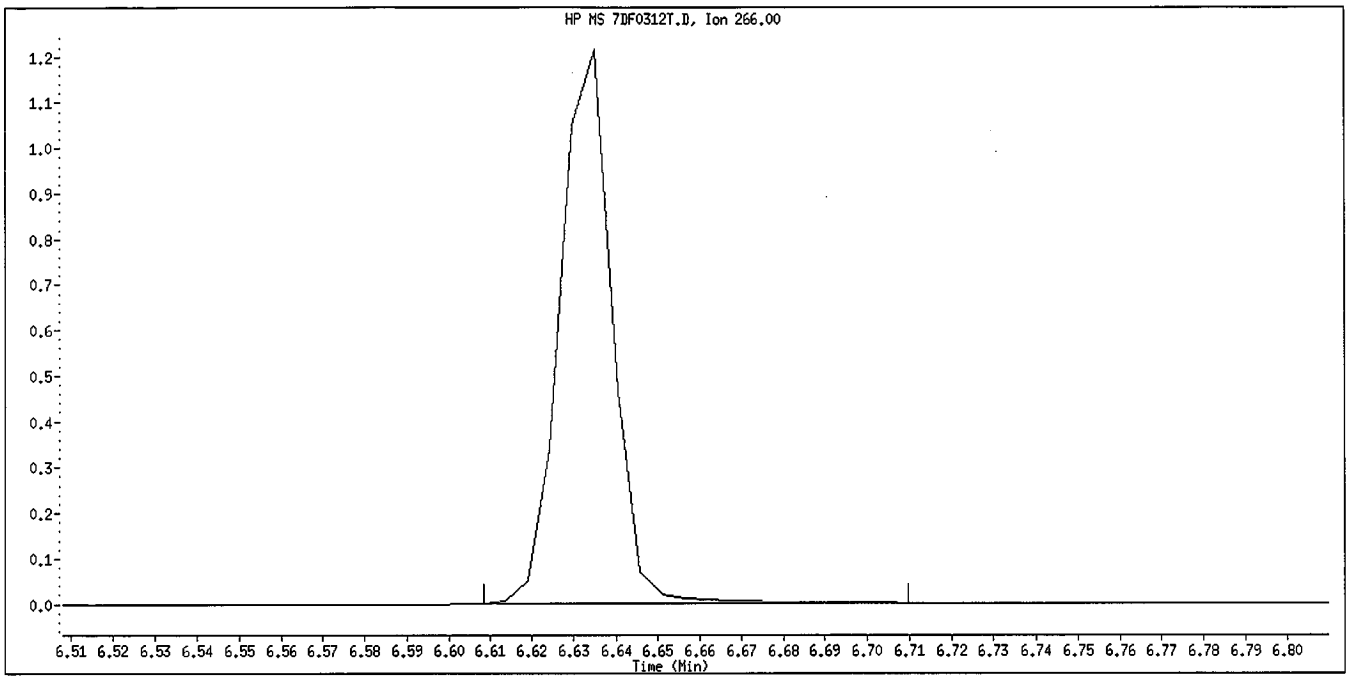
DEGRADATION REPORT

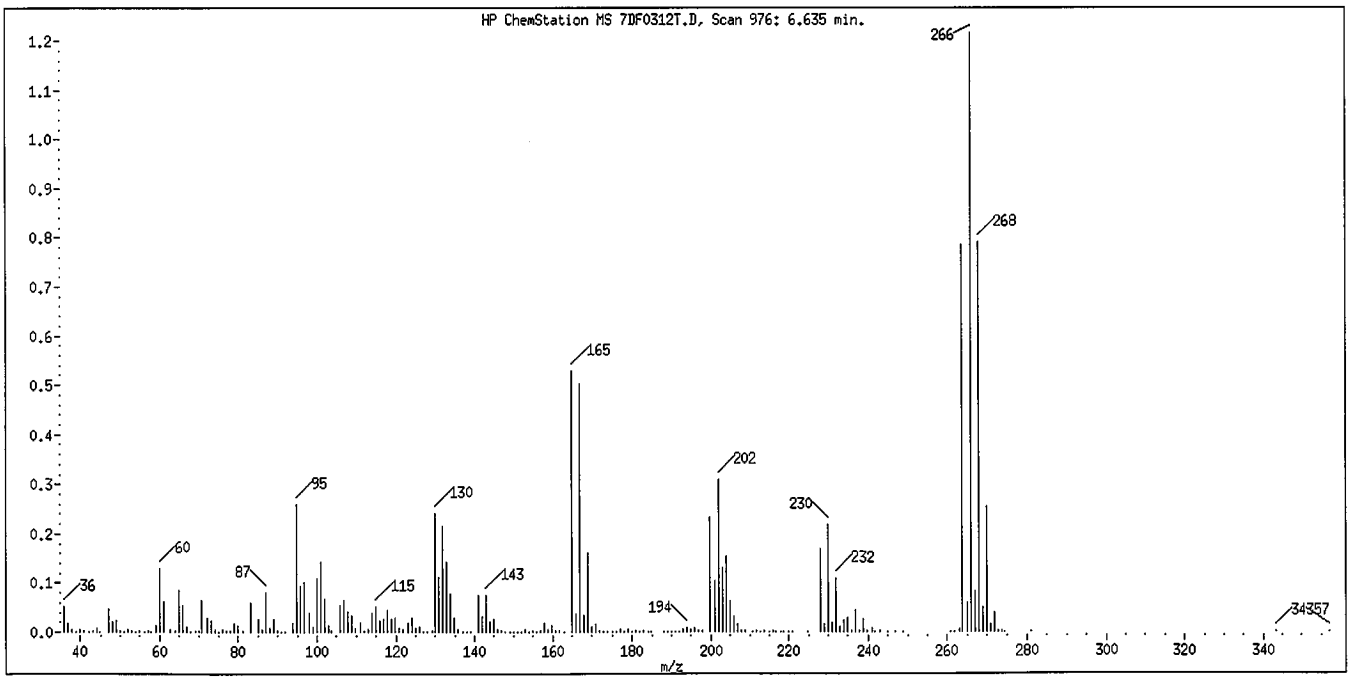


Degradation = 0% Good
Acceptance Criteria 0 - 20 %
DDT Area = 2723436
DDE Area = 0
DDD Area = 0

Data File: 7DF0312T.D
Inj Date: 12-MAR-2010 09:10
Instrument ID: a4hp7.i
Compound Name: Pentachlorophenol
Operator Name: 001710
Report Date: 03/12/2010

TAILING FACTOR





Tailing Factor = 0.678 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.620263 T2 = 6.635 T3 = 6.644996

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-040
Prep Date.....: 03/01/10 **Analysis Date..:** 03/12/10
Prep Batch #...: 0060040
Dilution Factor: 1 **Final Wgt/Vol..:** 2 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	71	(45 - 110)	SW846 8270C
4-Chloro-3-methylphenol	79	(45 - 115)	SW846 8270C
2-Chlorophenol	75	(45 - 105)	SW846 8270C
1,4-Dichlorobenzene	74	(35 - 105)	SW846 8270C
2,4-Dinitrotoluene	82	(50 - 115)	SW846 8270C
4-Nitrophenol	70	(15 - 140)	SW846 8270C
N-Nitrosodi-n-propyl-amine	76	(40 - 115)	SW846 8270C
Pentachlorophenol	43	(25 - 120)	SW846 8270C
Phenol	77	(40 - 100)	SW846 8270C
Pyrene	80	(45 - 125)	SW846 8270C
1,2,4-Trichloro-benzene	74	(45 - 110)	SW846 8270C
bis(2-Ethylhexyl) phthalate	87	(45 - 125)	SW846 8270C
Acenaphthylene	74	(45 - 105)	SW846 8270C
Anthracene	78	(55 - 105)	SW846 8270C
Benzo(a)anthracene	80	(50 - 110)	SW846 8270C
Benzo(b)fluoranthene	84	(45 - 115)	SW846 8270C
Benzo(k)fluoranthene	91	(45 - 125)	SW846 8270C
Benzo(ghi)perylene	87	(40 - 125)	SW846 8270C
Benzo(a)pyrene	74	(50 - 110)	SW846 8270C
bis(2-Chloroethoxy) methane	76	(45 - 110)	SW846 8270C
bis(2-Chloroethyl)-ether	76	(40 - 105)	SW846 8270C
4-Bromophenyl phenyl ether	80	(45 - 115)	SW846 8270C
Butyl benzyl phthalate	83	(50 - 125)	SW846 8270C
Carbazole	82	(45 - 115)	SW846 8270C
4-Chloroaniline	57	(10 - 95)	SW846 8270C
2-Chloronaphthalene	73	(45 - 105)	SW846 8270C
4-Chlorophenyl phenyl ether	78	(45 - 110)	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-040

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chrysene	82	(55 - 110)	SW846 8270C
Dibenzo(a,h)anthracene	90	(40 - 125)	SW846 8270C
Dibenzofuran	73	(50 - 105)	SW846 8270C
Di-n-butyl phthalate	85	(55 - 110)	SW846 8270C
1,2-Dichlorobenzene	74	(45 - 95)	SW846 8270C
1,3-Dichlorobenzene	70	(40 - 100)	SW846 8270C
3,3'-Dichlorobenzidine	56	(10 - 130)	SW846 8270C
2,4-Dichlorophenol	78	(45 - 110)	SW846 8270C
Diethyl phthalate	78	(50 - 115)	SW846 8270C
2,4-Dimethylphenol	65	(30 - 105)	SW846 8270C
Dimethyl phthalate	76	(50 - 110)	SW846 8270C
4,6-Dinitro-2-methylphenol	67	(30 - 135)	SW846 8270C
2,4-Dinitrophenol	49	(15 - 130)	SW846 8270C
2,6-Dinitrotoluene	83	(50 - 110)	SW846 8270C
Di-n-octyl phthalate	86	(40 - 130)	SW846 8270C
Fluoranthene	83	(55 - 115)	SW846 8270C
Fluorene	73	(50 - 110)	SW846 8270C
Hexachlorobenzene	79	(45 - 120)	SW846 8270C
Hexachlorobutadiene	76	(40 - 115)	SW846 8270C
Hexachloroethane	70	(35 - 110)	SW846 8270C
Indeno(1,2,3-cd)pyrene	86	(40 - 120)	SW846 8270C
Isophorone	74	(45 - 110)	SW846 8270C
2-Methylnaphthalene	90	(45 - 105)	SW846 8270C
2-Methylphenol	77	(40 - 105)	SW846 8270C
Naphthalene	75	(40 - 105)	SW846 8270C
2-Nitroaniline	80	(45 - 120)	SW846 8270C
3-Nitroaniline	74	(25 - 110)	SW846 8270C
4-Nitroaniline	84	(35 - 115)	SW846 8270C
Nitrobenzene	76	(40 - 115)	SW846 8270C
2-Nitrophenol	79	(40 - 110)	SW846 8270C
N-Nitrosodiphenylamine	80	(50 - 115)	SW846 8270C
Phenanthrene	78	(50 - 110)	SW846 8270C
2,4,5-Trichlorophenol	79	(50 - 110)	SW846 8270C
2,4,6-Trichlorophenol	69	(45 - 110)	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-040

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzyl alcohol	**72**	**(20 - 125)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**75**	**(20 - 115)**	**SW846 8270C**
N-Nitrosodimethylamine	**82**	**(20 - 115)**	**SW846 8270C**
1,2-Diphenylhydrazine (as Azobenzene)	**78**	**(1.0- 175)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	70	(45 - 105)
2-Fluorophenol	81	(35 - 105)
Phenol-d5	74	(40 - 100)
2,4,6-Tribromophenol	64	(35 - 125)
Nitrobenzene-d5	74	(35 - 100)
Terphenyl-d14	92	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-040
Prep Date.....: 03/01/10 **Analysis Date..:** 03/12/10
Prep Batch #...: 0060040
Dilution Factor: 1 **Final Wgt/Vol..:** 2 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	670	470	ug/kg	71	SW846 8270C
4-Chloro-3-methylphenol	670	530	ug/kg	79	SW846 8270C
2-Chlorophenol	670	500	ug/kg	75	SW846 8270C
1,4-Dichlorobenzene	670	490	ug/kg	74	SW846 8270C
2,4-Dinitrotoluene	670	550	ug/kg	82	SW846 8270C
4-Nitrophenol	670	470	ug/kg	70	SW846 8270C
N-Nitrosodi-n-propyl-amine	670	510	ug/kg	76	SW846 8270C
Pentachlorophenol	670	280	ug/kg	43	SW846 8270C
Phenol	670	510	ug/kg	77	SW846 8270C
Pyrene	670	530	ug/kg	80	SW846 8270C
1,2,4-Trichloro-benzene	670	490	ug/kg	74	SW846 8270C
bis(2-Ethylhexyl) phthalate	670	580	ug/kg	87	SW846 8270C
Acenaphthylene	670	490	ug/kg	74	SW846 8270C
Anthracene	670	520	ug/kg	78	SW846 8270C
Benzo(a)anthracene	670	530	ug/kg	80	SW846 8270C
Benzo(b)fluoranthene	670	560	ug/kg	84	SW846 8270C
Benzo(k)fluoranthene	670	610	ug/kg	91	SW846 8270C
Benzo(ghi)perylene	670	580	ug/kg	87	SW846 8270C
Benzo(a)pyrene	670	490	ug/kg	74	SW846 8270C
bis(2-Chloroethoxy) methane	670	510	ug/kg	76	SW846 8270C
bis(2-Chloroethyl)-ether	670	510	ug/kg	76	SW846 8270C
4-Bromophenyl phenyl ether	670	530	ug/kg	80	SW846 8270C
Butyl benzyl phthalate	670	550	ug/kg	83	SW846 8270C
Carbazole	670	550	ug/kg	82	SW846 8270C
4-Chloroaniline	670	380	ug/kg	57	SW846 8270C
2-Chloronaphthalene	670	480	ug/kg	73	SW846 8270C
4-Chlorophenyl phenyl ether	670	520	ug/kg	78	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-040

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Chrysene	670	540	ug/kg	82	SW846 8270C
Dibenzo(a,h)anthracene	670	600	ug/kg	90	SW846 8270C
Dibenzofuran	670	490	ug/kg	73	SW846 8270C
Di-n-butyl phthalate	670	560	ug/kg	85	SW846 8270C
1,2-Dichlorobenzene	670	490	ug/kg	74	SW846 8270C
1,3-Dichlorobenzene	670	470	ug/kg	70	SW846 8270C
3,3'-Dichlorobenzidine	670	380	ug/kg	56	SW846 8270C
2,4-Dichlorophenol	670	520	ug/kg	78	SW846 8270C
Diethyl phthalate	670	520	ug/kg	78	SW846 8270C
2,4-Dimethylphenol	670	430	ug/kg	65	SW846 8270C
Dimethyl phthalate	670	510	ug/kg	76	SW846 8270C
4,6-Dinitro-2-methylphenol	670	440	ug/kg	67	SW846 8270C
2,4-Dinitrophenol	670	330	ug/kg	49	SW846 8270C
2,6-Dinitrotoluene	670	550	ug/kg	83	SW846 8270C
Di-n-octyl phthalate	670	580	ug/kg	86	SW846 8270C
Fluoranthene	670	560	ug/kg	83	SW846 8270C
Fluorene	670	490	ug/kg	73	SW846 8270C
Hexachlorobenzene	670	530	ug/kg	79	SW846 8270C
Hexachlorobutadiene	670	510	ug/kg	76	SW846 8270C
Hexachloroethane	670	470	ug/kg	70	SW846 8270C
Indeno(1,2,3-cd)pyrene	670	580	ug/kg	86	SW846 8270C
Isophorone	670	490	ug/kg	74	SW846 8270C
2-Methylnaphthalene	670	600	ug/kg	90	SW846 8270C
2-Methylphenol	670	520	ug/kg	77	SW846 8270C
Naphthalene	670	500	ug/kg	75	SW846 8270C
2-Nitroaniline	670	530	ug/kg	80	SW846 8270C
3-Nitroaniline	670	490	ug/kg	74	SW846 8270C
4-Nitroaniline	670	560	ug/kg	84	SW846 8270C
Nitrobenzene	670	510	ug/kg	76	SW846 8270C
2-Nitrophenol	670	530	ug/kg	79	SW846 8270C
N-Nitrosodiphenylamine	670	530	ug/kg	80	SW846 8270C
Phenanthrene	670	520	ug/kg	78	SW846 8270C
2,4,5-Trichlorophenol	670	520	ug/kg	79	SW846 8270C
2,4,6-Trichlorophenol	670	460	ug/kg	69	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-040

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzyl alcohol	**670**	**480**	**ug/kg**	**72**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**670**	**500**	**ug/kg**	**75**	**SW846 8270C**
N-Nitrosodimethylamine	**670**	**540**	**ug/kg**	**82**	**SW846 8270C**
1,2-Diphenylhydrazine (as Azobenzene)	**670**	**520**	**ug/kg**	**78**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	70	(45 - 105)
2-Fluorophenol	81	(35 - 105)
Phenol-d5	74	(40 - 100)
2,4,6-Tribromophenol	64	(35 - 125)
Nitrobenzene-d5	74	(35 - 100)
Terphenyl-d14	92	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\LV6AW1AC.D
Lab Smp Id: lv6aw1ac Client Smp ID: INTRA-LAB CHECK
Inj Date : 12-MAR-2010 10:30
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv6aw1ac,00312a.b,8270c-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Meth Date : 15-Mar-2010 11:44 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 5 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
* 1 1,4-Dichlorobenzene-d4	152	3.538	3.538	(1.000)	351349	2.00000	
* 2 Naphthalene-d8	136	4.431	4.431	(1.000)	1482516	2.00000	
* 3 Acenaphthene-d10	164	5.699	5.699	(1.000)	853850	2.00000	
* 4 Phenanthrene-d10	188	6.784	6.784	(1.000)	1349006	2.00000	
* 5 Chrysene-d12	240	8.742	8.747	(1.000)	1554332	2.00000	
* 6 Perylene-d12	264	10.202	10.207	(1.000)	1361709	2.00000	
9 Pyridine	79	1.939	1.928	(0.548)	472142	2.35451	313.94
10 N-Nitrosodimethylamine	74	1.906	1.901	(0.539)	476304	4.08290	544.39
11 Ethyl methacrylate	69	Compound Not Detected.					
12 3-Chloropropionitrile	54	Compound Not Detected.					
13 Malononitrile	66	Compound Not Detected.					
209 Benzaldehyde	77	3.249	3.249	(0.918)	569157	4.03826	538.43
21 Aniline	93	3.313	3.313	(0.937)	888488	2.61606	348.81
22 Phenol	94	3.260	3.254	(0.921)	1074703	3.86152	514.87
23 bis(2-Chloroethyl)ether	93	3.335	3.334	(0.943)	889108	3.81797	509.06
24 2-Chlorophenol	128	3.399	3.393	(0.961)	848805	3.75918	501.22
26 1,3-Dichlorobenzene	146	3.500	3.500	(0.989)	809307	3.51957	469.28
27 1,4-Dichlorobenzene	146	3.548	3.548	(1.003)	843885	3.71236	494.98

28	1,2-Dichlorobenzene	146	3.655	3.655 (1.033)	812108	3.69793	493.06
29	Benzyl Alcohol	108	3.613	3.613 (1.021)	534383	3.60410	480.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
30	2-Methylphenol	108	3.671	3.666	(1.038)	792940	3.87321	516.43
31	bis(2-Chloroisopropyl)ether	45	3.693	3.693	(1.044)	1239157	3.76621	502.16
37	Acetophenone	105	3.805	3.805	(1.076)	1138160	3.82285	509.71
32	N-Nitroso-di-n-propylamine	70	3.789	3.794	(1.071)	603664	3.79458	505.94
192	4-Methylphenol	108	3.773	3.773	(1.067)	1616975	7.53574	1004.8(R)
34	Hexachloroethane	117	3.896	3.896	(1.101)	298827	3.51702	468.94
35	Nitrobenzene	77	3.928	3.934	(0.887)	846091	3.82404	509.87
41	Isophorone	82	4.089	4.089	(0.923)	1627948	3.67656	490.21
42	2-Nitrophenol	139	4.153	4.153	(0.937)	467997	3.95152	526.87(Q)
43	2,4-Dimethylphenol	107	4.148	4.147	(0.936)	715806	3.23619	431.49
44	bis(2-Chloroethoxy)methane	93	4.217	4.217	(0.952)	984351	3.81989	509.32
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	4.313	4.313	(0.973)	678367	3.92245	522.99
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.383	4.383	(0.989)	698657	3.70481	493.97
51	Naphthalene	128	4.447	4.447	(1.004)	2566781	3.74445	499.26
52	4-Chloroaniline	127	4.468	4.468	(1.008)	836693	2.82902	377.20
56	Hexachlorobutadiene	225	4.517	4.517	(1.019)	374873	3.81296	508.40
210	Caprolactam	113	4.720	4.736	(1.065)	309135	3.94215	525.62
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	4.795	4.789	(1.082)	770550	3.95650	527.53
62	2-Methylnaphthalene	142	4.939	4.939	(1.115)	1683219	4.51046	601.40
63	1-Methylnaphthalene	142	5.014	5.014	(1.132)	1647908	3.84026	512.04
64	Hexachlorocyclopentadiene	237	5.041	5.041	(0.885)	428151	4.22120	562.83
66	2,4,6-Trichlorophenol	196	5.132	5.132	(0.901)	438737	3.44959	459.94
67	2,4,5-Trichlorophenol	196	5.164	5.158	(0.906)	536925	3.93032	524.04
211	1,1'-Biphenyl	154	5.271	5.271	(0.925)	2134028	3.66461	488.61
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	5.297	5.297	(0.930)	1572678	3.63568	484.76
73	2-Nitroaniline	65	5.356	5.356	(0.940)	508270	4.00360	533.81
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	5.469	5.469	(0.960)	1891979	3.80435	507.25
78	2,6-Dinitrotoluene	165	5.522	5.522	(0.969)	457903	4.12676	550.23
79	Acenaphthylene	152	5.602	5.602	(0.983)	2634377	3.70656	494.21
80	1,2-Dinitrobenzene	168	5.570	5.570	(0.977)	231231	4.18363	557.82
81	3-Nitroaniline	138	5.650	5.650	(0.992)	457001	3.68237	490.98
82	Acenaphthene	153	5.725	5.725	(1.005)	1614331	3.53160	470.88
83	2,4-Dinitrophenol	184	5.725	5.725	(1.005)	139123	2.45804	327.74(Q)
85	4-Nitrophenol	109	5.747	5.747	(1.008)	211986	3.51906	469.21
86	Dibenzofuran	168	5.848	5.848	(1.026)	2240909	3.64925	486.57
87	2,4-Dinitrotoluene	165	5.816	5.816	(1.021)	624094	4.11385	548.51
91	2,3,5,6-Tetrachlorophenol	232	5.897	5.891	(1.035)	335101	2.91802	389.07
93	Diethylphthalate	149	5.971	5.971	(1.048)	1982609	3.88958	518.61
94	Fluorene	166	6.100	6.100	(1.070)	1915649	3.67112	489.48
95	4-Chlorophenyl-phenylether	204	6.078	6.078	(1.067)	902814	3.88430	517.91
96	4-Nitroaniline	138	6.100	6.100	(1.070)	545995	4.19500	559.33
98	4,6-Dinitro-2-methylphenol	198	6.110	6.116	(0.901)	280937	3.33369	444.49
99	N-Nitrosodiphenylamine	169	6.164	6.164	(0.909)	1450261	4.00976	534.63
100	1,2-Diphenylhydrazine	77	6.196	6.196	(0.913)	1922951	3.89361	519.15
106	4-Bromophenyl-phenylether	248	6.437	6.437	(0.949)	516610	3.97958	530.61
107	Hexachlorobenzene	284	6.496	6.496	(0.957)	503212	3.94248	525.66

212 Atrazine	200	6.528	6.528 (0.962)	592064	6.57322	876.43(R)
111 Pentachlorophenol	266	6.635	6.635 (0.978)	180102	2.13510	284.68

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
115	Phenanthrene	178	6.806	6.806	(1.003)	2841675	3.87770	517.03
116	Anthracene	178	6.843	6.843	(1.009)	2888838	3.91363	521.82
119	Carbazole	167	6.945	6.945	(1.024)	2825766	4.10198	546.93
120	Di-n-Butylphthalate	149	7.153	7.153	(1.054)	3538198	4.23197	564.26
123	Fluoranthene	202	7.672	7.672	(1.131)	3133570	4.17277	556.37
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.843	7.849	(0.897)	3190776	3.98191	530.92
131	Butylbenzylphthalate	149	8.255	8.255	(0.944)	1554242	4.14826	553.10
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	8.683	8.688	(0.993)	790369	2.82181	376.24
136	Benzo(a)Anthracene	228	8.731	8.737	(0.999)	3059664	3.97714	530.28
137	Chrysene	228	8.763	8.769	(1.002)	2958897	4.07594	543.46
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.662	8.662	(0.991)	2319893	4.34468	579.29
140	Di-n-octylphthalate	149	9.218	9.223	(0.904)	3692049	4.32222	576.30
141	Benzo(b)fluoranthene	252	9.748	9.753	(0.955)	2954238	4.22088	562.78
142	Benzo(k)fluoranthene	252	9.774	9.785	(0.958)	3385690	4.54611	606.15
146	Benzo(a)pyrene	252	10.138	10.143	(0.994)	2480919	3.69237	492.32
149	Indeno(1,2,3-cd)pyrene	276	11.801	11.812	(1.157)	3245721	4.32262	576.35
150	Dibenz(a,h)anthracene	278	11.817	11.828	(1.158)	2834366	4.48414	597.88
151	Benzo(g,h,i)perylene	276	12.299	12.304	(1.206)	2732444	4.36109	581.48
198	1,4-Dioxane	88	1.735	1.725	(0.491)	139596	1.84534	246.04
$ 154	Nitrobenzene-d5	82	3.918	3.917	(0.884)	832979	3.71878	495.84
$ 155	2-Fluorobiphenyl	172	5.190	5.190	(0.911)	1716532	3.48471	464.63
$ 156	Terphenyl-d14	244	7.924	7.924	(0.906)	2236717	4.58082	610.78
$ 157	Phenol-d5	99	3.249	3.244	(0.918)	1468664	5.57948	743.93
$ 158	2-Fluorophenol	112	2.677	2.661	(0.757)	1210320	6.07481	809.98
$ 159	2,4,6-Tribromophenol	330	6.271	6.271	(1.100)	276785	4.80339	640.45
$ 186	2-Chlorophenol-d4	132	3.388	3.383	(0.958)	1289868	6.19888	826.52
$ 187	1,2-Dichlorobenzene-d4	152	3.645	3.645	(1.030)	504527	3.59360	479.15
M 195	Cresols, total	100				2409915	11.4090	1521.2
101	Diphenylamine	169	6.164	6.164	(0.909)	1450261	4.00976	534.63

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: LV6AW1AC.D
Lab Smp Id: lv6aw1ac
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Misc Info:

Calibration Date: 12-MAR-2010
Calibration Time: 09:31
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	406631	203316	813262	351349	-13.60
2 Naphthalene-d8	1724183	862092	3448366	1482516	-14.02
3 Acenaphthene-d10	937660	468830	1875320	853850	-8.94
4 Phenanthrene-d10	1520172	760086	3040344	1349006	-11.26
5 Chrysene-d12	1731041	865521	3462082	1554332	-10.21
6 Perylene-d12	1586026	793013	3172052	1361709	-14.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	0.00
2 Naphthalene-d8	4.43	3.93	4.93	4.43	0.00
3 Acenaphthene-d10	5.70	5.20	6.20	5.70	0.00
4 Phenanthrene-d10	6.78	6.28	7.28	6.78	0.00
5 Chrysene-d12	8.75	8.25	9.25	8.74	-0.06
6 Perylene-d12	10.21	9.71	10.71	10.20	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\LV6AW1AC.D

Page 1

Date : 12-MAR-2010 10:30

Client ID: INTRA-LAB CHECK

Instrument: a4hp7.i

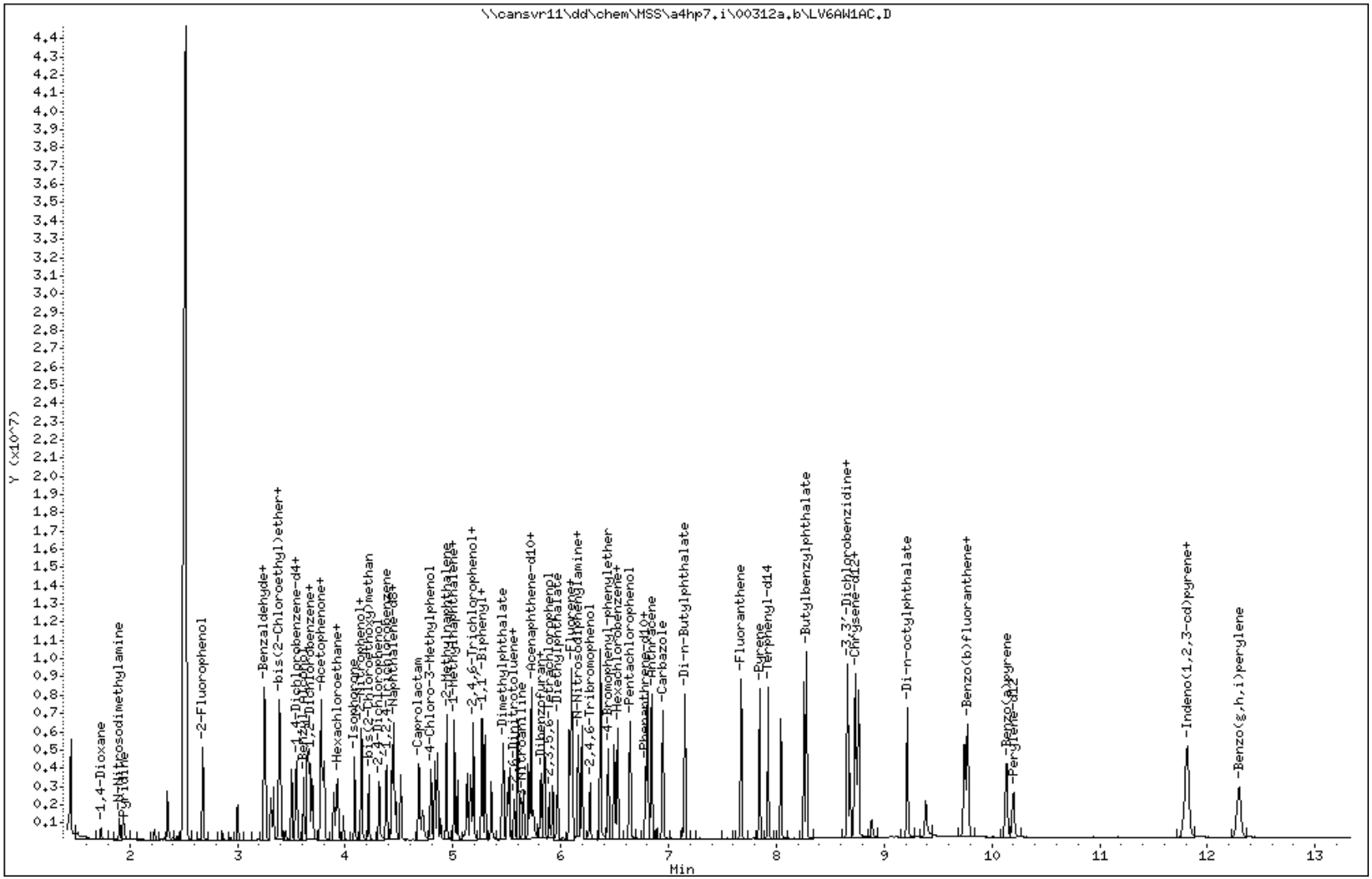
Sample Info: lv6aw1ac,00312a.b,8270c-625,1-827042d.sub

Volume Injected (uL): 0.5

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AW1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0C010000-040

Prep Date.....: 03/01/10 **Final Wgt/Vol..:** 2 mL
Analysis Date..: 03/12/10 **Prep Batch #...:** 0060040
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzoic acid	ND	800	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	**20 J**	**330**	**ug/kg**	**SW846 8270C**
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	800	ug/kg	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AW1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrophenol	ND	800	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta-diene	ND	330	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
2-Nitroaniline	ND	800	ug/kg	SW846 8270C
3-Nitroaniline	ND	800	ug/kg	SW846 8270C
4-Nitroaniline	ND	800	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	800	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	330	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C
1,2,4-Trichloro-benzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Carbazole	ND	50	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	57	(45 - 105)
2-Fluorophenol	68	(35 - 105)
Phenol-d5	62	(40 - 100)
2,4,6-Tribromophenol	27 *	(35 - 125)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AW1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene-d5	63	(35 - 100)		
Terphenyl-d14	87	(30 - 125)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated: The analyte was positively identified; the quanitation is estimated.

* Surrogate recovery is outside stated control limits.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\LV6AW1AA.D
Lab Smp Id: lv6aw1aa Client Smp ID: INTRA-LAB BLANK
Inj Date : 12-MAR-2010 10:11
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv6aw1aa,00312a.b,8270c-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Meth Date : 15-Mar-2010 14:43 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 4 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1 1,4-Dichlorobenzene-d4	152	3.538	3.538	(1.000)	378240	2.00000		(Q)
* 2 Naphthalene-d8	136	4.431	4.431	(1.000)	1562753	2.00000		
* 3 Acenaphthene-d10	164	5.699	5.699	(1.000)	907851	2.00000		
* 4 Phenanthrene-d10	188	6.784	6.784	(1.000)	1426303	2.00000		
* 5 Chrysene-d12	240	8.747	8.747	(1.000)	1612339	2.00000		
* 6 Perylene-d12	264	10.213	10.207	(1.000)	1417019	2.00000		
9 Pyridine	79	Compound Not Detected.						
10 N-Nitrosodimethylamine	74	Compound Not Detected.						
11 Ethyl methacrylate	69	Compound Not Detected.						
12 3-Chloropropionitrile	54	Compound Not Detected.						
13 Malononitrile	66	Compound Not Detected.						
209 Benzaldehyde	77	Compound Not Detected.						
21 Aniline	93	Compound Not Detected.						
22 Phenol	94	Compound Not Detected.						
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
24 2-Chlorophenol	128	Compound Not Detected.						
26 1,3-Dichlorobenzene	146	Compound Not Detected.						
27 1,4-Dichlorobenzene	146	Compound Not Detected.						

28	1,2-Dichlorobenzene	146	Compound Not Detected.
29	Benzyl Alcohol	108	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
30	2-Methylphenol	108	Compound Not Detected.					
31	bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
37	Acetophenone	105	Compound Not Detected.					
32	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
192	4-Methylphenol	108	Compound Not Detected.					
34	Hexachloroethane	117	Compound Not Detected.					
35	Nitrobenzene	77	Compound Not Detected.					
41	Isophorone	82	Compound Not Detected.					
42	2-Nitrophenol	139	Compound Not Detected.					
43	2,4-Dimethylphenol	107	Compound Not Detected.					
44	bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	Compound Not Detected.					
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
51	Naphthalene	128	Compound Not Detected.					
52	4-Chloroaniline	127	Compound Not Detected.					
56	Hexachlorobutadiene	225	Compound Not Detected.					
210	Caprolactam	113	Compound Not Detected.					
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
62	2-Methylnaphthalene	142	Compound Not Detected.					
63	1-Methylnaphthalene	142	Compound Not Detected.					
64	Hexachlorocyclopentadiene	237	Compound Not Detected.					
66	2,4,6-Trichlorophenol	196	Compound Not Detected.					
67	2,4,5-Trichlorophenol	196	Compound Not Detected.					
211	1,1'-Biphenyl	154	Compound Not Detected.					
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	Compound Not Detected.					
73	2-Nitroaniline	65	Compound Not Detected.					
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	Compound Not Detected.					
78	2,6-Dinitrotoluene	165	Compound Not Detected.					
79	Acenaphthylene	152	Compound Not Detected.					
80	1,2-Dinitrobenzene	168	Compound Not Detected.					
81	3-Nitroaniline	138	Compound Not Detected.					
82	Acenaphthene	153	Compound Not Detected.					
83	2,4-Dinitrophenol	184	Compound Not Detected.					
85	4-Nitrophenol	109	Compound Not Detected.					
86	Dibenzofuran	168	Compound Not Detected.					
87	2,4-Dinitrotoluene	165	Compound Not Detected.					
91	2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
93	Diethylphthalate	149	Compound Not Detected.					
94	Fluorene	166	Compound Not Detected.					
95	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96	4-Nitroaniline	138	Compound Not Detected.					
98	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99	N-Nitrosodiphenylamine	169	Compound Not Detected.					
100	1,2-Diphenylhydrazine	77	Compound Not Detected.					
106	4-Bromophenyl-phenylether	248	Compound Not Detected.					
107	Hexachlorobenzene	284	Compound Not Detected.					

212	Atrazine	200	Compound Not Detected.
111	Pentachlorophenol	266	Compound Not Detected.

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/kg)
115	Phenanthrene	178	Compound Not Detected.					
116	Anthracene	178	Compound Not Detected.					
119	Carbazole	167	Compound Not Detected.					
120	Di-n-Butylphthalate	149	Compound Not Detected.					
123	Fluoranthene	202	Compound Not Detected.					
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	Compound Not Detected.					
131	Butylbenzylphthalate	149	Compound Not Detected.					
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	Compound Not Detected.					
137	Chrysene	228	Compound Not Detected.					
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.672	8.662	(0.991)	82274	0.14854	19.805
140	Di-n-octylphthalate	149	Compound Not Detected.					
141	Benzo(b)fluoranthene	252	Compound Not Detected.					
142	Benzo(k)fluoranthene	252	Compound Not Detected.					
146	Benzo(a)pyrene	252	Compound Not Detected.					
149	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
150	Dibenz(a,h)anthracene	278	Compound Not Detected.					
151	Benzo(g,h,i)perylene	276	Compound Not Detected.					
198	1,4-Dioxane	88	Compound Not Detected.					
$ 154	Nitrobenzene-d5	82	3.912	3.917	(0.883)	748820	3.17141	422.85
$ 155	2-Fluorobiphenyl	172	5.185	5.190	(0.910)	1492083	2.84889	379.85
$ 156	Terphenyl-d14	244	7.924	7.924	(0.906)	2203125	4.34969	579.96
$ 157	Phenol-d5	99	3.249	3.244	(0.918)	1315629	4.64275	619.03
$ 158	2-Fluorophenol	112	2.677	2.661	(0.757)	1085998	5.06329	675.10
$ 159	2,4,6-Tribromophenol	330	6.271	6.271	(1.100)	126355	2.06236	274.98
$ 186	2-Chlorophenol-d4	132	3.388	3.383	(0.958)	1148532	5.12723	683.63
$ 187	1,2-Dichlorobenzene-d4	152	3.645	3.645	(1.030)	455175	3.01159	401.54
M 195	Cresols, total	100	Compound Not Detected.					
101	Diphenylamine	169	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

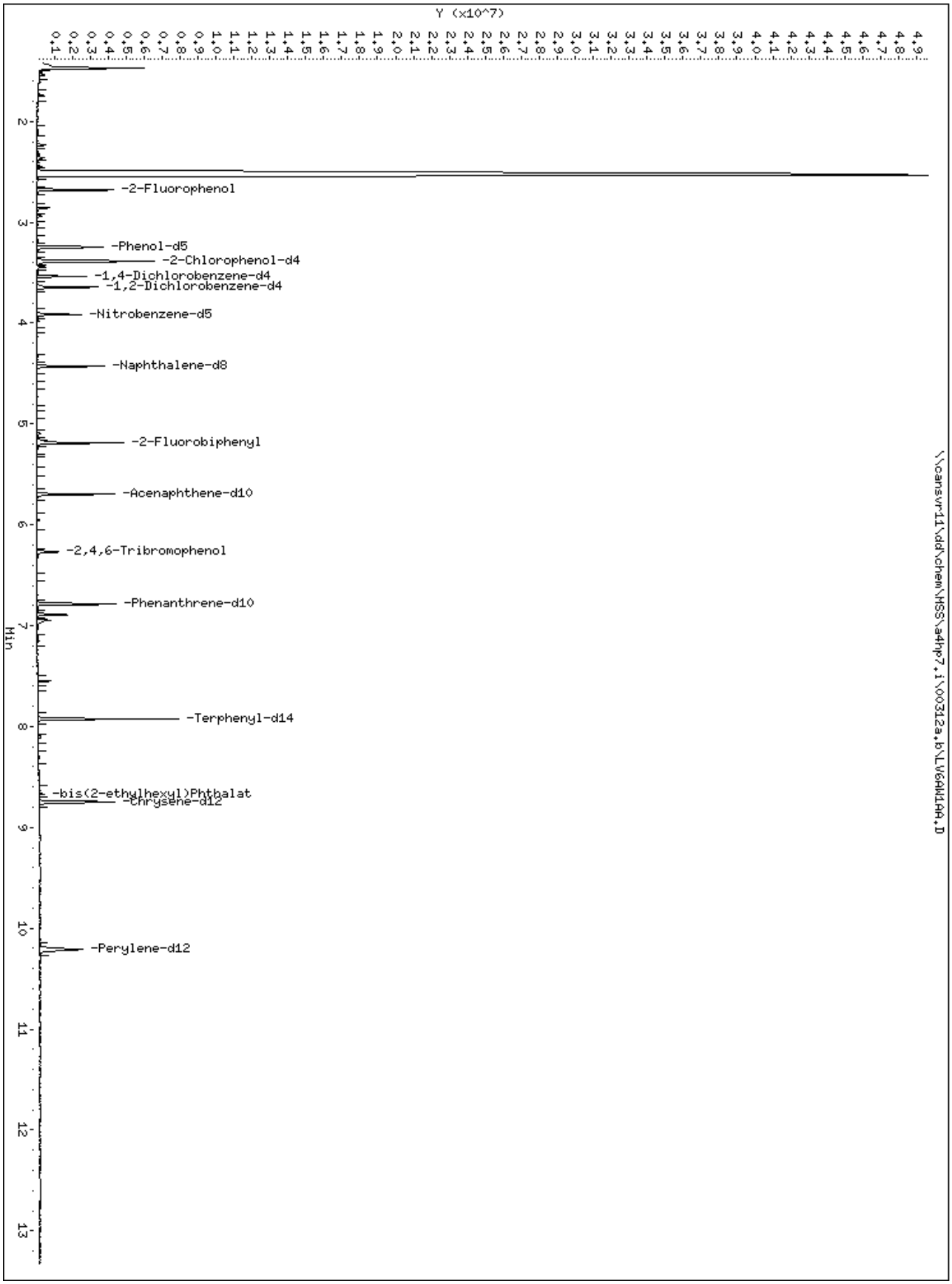
Instrument ID: a4hp7.i
Lab File ID: LV6AW1AA.D
Lab Smp Id: lv6aw1aa
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00312a.b\8270C-625.m
Misc Info:

Calibration Date: 12-MAR-2010
Calibration Time: 09:31
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: SOIL

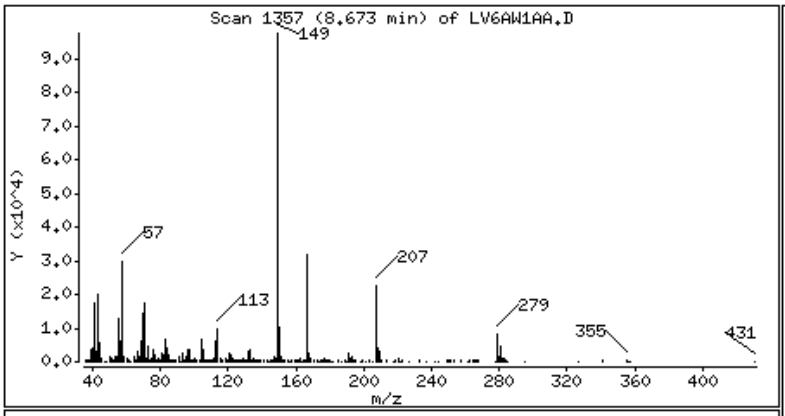
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	406631	203316	813262	378240	-6.98
2 Naphthalene-d8	1724183	862092	3448366	1562753	-9.36
3 Acenaphthene-d10	937660	468830	1875320	907851	-3.18
4 Phenanthrene-d10	1520172	760086	3040344	1426303	-6.17
5 Chrysene-d12	1731041	865521	3462082	1612339	-6.86
6 Perylene-d12	1586026	793013	3172052	1417019	-10.66

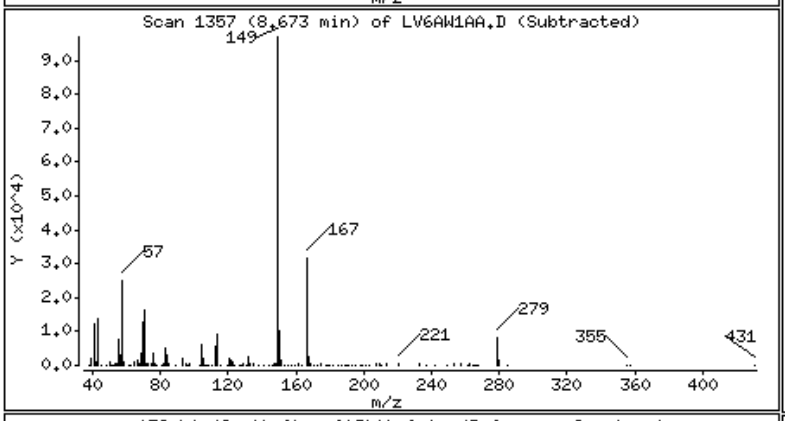
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.54	3.04	4.04	3.54	-0.00
2 Naphthalene-d8	4.43	3.93	4.93	4.43	-0.00
3 Acenaphthene-d10	5.70	5.20	6.20	5.70	-0.00
4 Phenanthrene-d10	6.78	6.28	7.28	6.78	-0.00
5 Chrysene-d12	8.75	8.25	9.25	8.75	-0.00
6 Perylene-d12	10.21	9.71	10.71	10.21	0.05

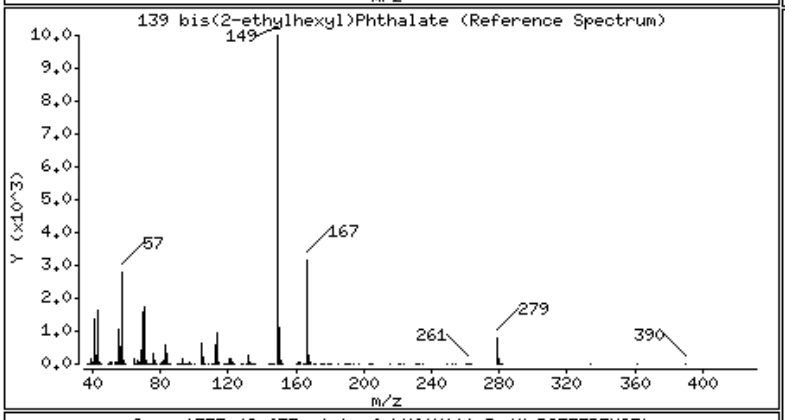
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

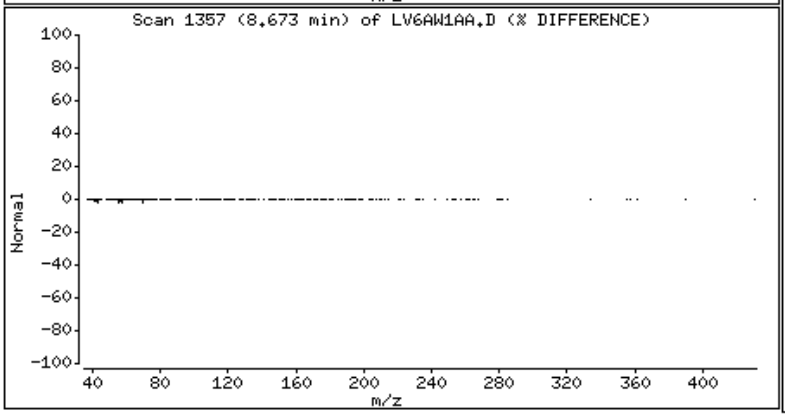

Y (x10^7)
Min
-2-Fluorophenol
-Phenol-d5
-2-Chlorophenol-d4
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-bis(2-ethylhexyl)Phthalat
-Chrysene-d12
-Perylene-d12
\\cansvr11\dd\chem\HSS\a4hp7.i\00312a.b\LV6AW10A.D

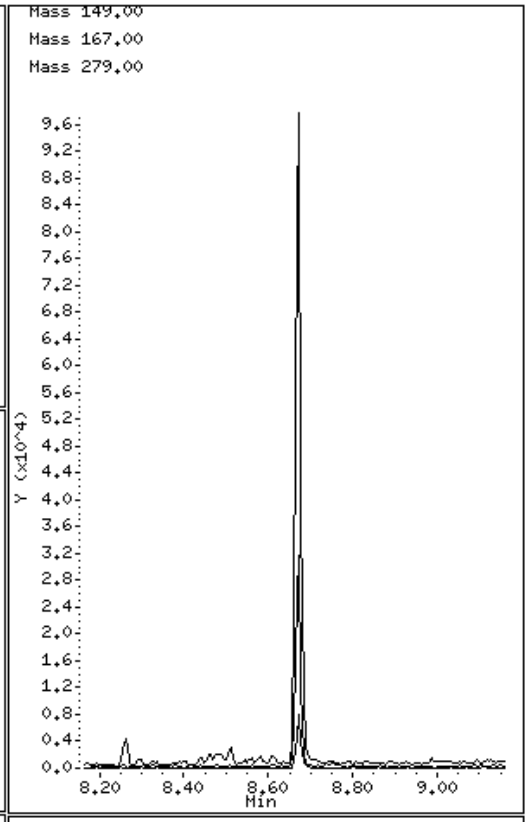
139 bis(2-ethylhexyl)Phthalate

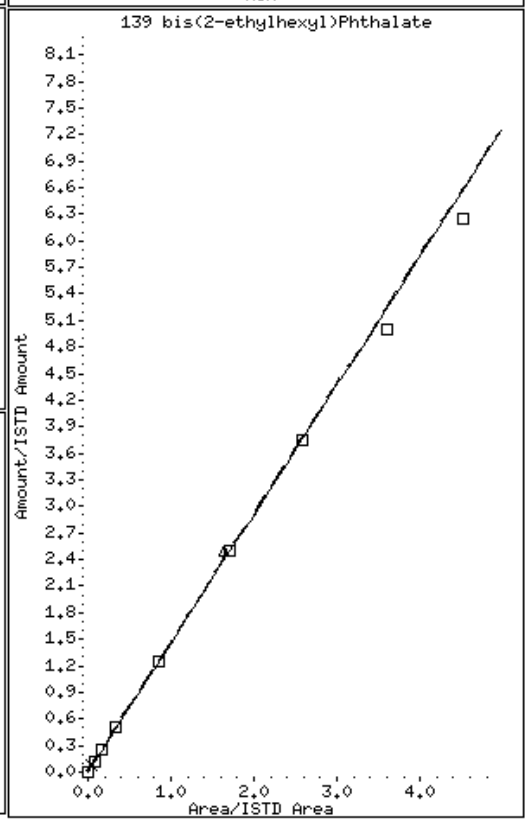












MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DX-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1D0-MSD
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0060040
Dilution Factor: 4 **Initial Wgt/Vol:** 30.1 g **Final Wgt/Vol..:** 2 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**75 DIL**	**(45 - 110)**			**SW846 8270C**
	75 DIL	**(45 - 110)**	**0.08**	**(0-44)**	**SW846 8270C**
4-Chloro-3-methylphenol	**80 DIL**	**(45 - 115)**			**SW846 8270C**
	84 DIL	**(45 - 115)**	**4.8**	**(0-55)**	**SW846 8270C**
2-Chlorophenol	**66 DIL**	**(45 - 105)**			**SW846 8270C**
	70 DIL	**(45 - 105)**	**6.1**	**(0-54)**	**SW846 8270C**
1,4-Dichlorobenzene	**58 DIL**	**(35 - 105)**			**SW846 8270C**
	61 DIL	**(35 - 105)**	**4.6**	**(0-59)**	**SW846 8270C**
2,4-Dinitrotoluene	**73 DIL**	**(50 - 115)**			**SW846 8270C**
	76 DIL	**(50 - 115)**	**3.4**	**(0-45)**	**SW846 8270C**
4-Nitrophenol	**76 DIL**	**(15 - 140)**			**SW846 8270C**
	60 DIL	**(15 - 140)**	**23**	**(0-64)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**62 DIL**	**(40 - 115)**			**SW846 8270C**
	65 DIL	**(40 - 115)**	**3.8**	**(0-50)**	**SW846 8270C**
Pentachlorophenol	**66 DIL**	**(25 - 120)**			**SW846 8270C**
	65 DIL	**(25 - 120)**	**1.7**	**(0-87)**	**SW846 8270C**
Phenol	**71 DIL**	**(40 - 100)**			**SW846 8270C**
	80 DIL	**(40 - 100)**	**12**	**(0-50)**	**SW846 8270C**
Pyrene	**75 DIL**	**(45 - 125)**			**SW846 8270C**
	77 DIL	**(45 - 125)**	**2.1**	**(0-66)**	**SW846 8270C**
1,2,4-Trichloro- benzene	**66 DIL**	**(45 - 110)**			**SW846 8270C**
	67 DIL	**(45 - 110)**	**0.98**	**(0-54)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**82 DIL**	**(45 - 125)**			**SW846 8270C**
	83 DIL	**(45 - 125)**	**1.6**	**(0-31)**	**SW846 8270C**
Acenaphthylene	**76 DIL**	**(45 - 105)**			**SW846 8270C**
	75 DIL	**(45 - 105)**	**1.3**	**(0-41)**	**SW846 8270C**
Anthracene	**79 DIL**	**(55 - 105)**			**SW846 8270C**
	81 DIL	**(55 - 105)**	**1.6**	**(0-22)**	**SW846 8270C**
Benzo(a)anthracene	**77 DIL**	**(50 - 110)**			**SW846 8270C**
	78 DIL	**(50 - 110)**	**1.9**	**(0-23)**	**SW846 8270C**
Benzo(b)fluoranthene	**82 DIL**	**(45 - 115)**			**SW846 8270C**
	74 DIL	**(45 - 115)**	**7.6**	**(0-28)**	**SW846 8270C**
Benzo(k)fluoranthene	**79 DIL**	**(45 - 125)**			**SW846 8270C**
	83 DIL	**(45 - 125)**	**4.4**	**(0-31)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DX-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1D0-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzo(ghi)perylene	**83 DIL**	**(40 - 125)**			**SW846 8270C**
	80 DIL	**(40 - 125)**	**3.4**	**(0-50)**	**SW846 8270C**
Benzo(a)pyrene	**69 DIL**	**(50 - 110)**			**SW846 8270C**
	66 DIL	**(50 - 110)**	**4.2**	**(0-31)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**72 DIL**	**(45 - 110)**			**SW846 8270C**
	71 DIL	**(45 - 110)**	**1.3**	**(0-35)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**61 DIL**	**(40 - 105)**			**SW846 8270C**
	63 DIL	**(40 - 105)**	**3.2**	**(0-33)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**81 DIL**	**(45 - 115)**			**SW846 8270C**
	79 DIL	**(45 - 115)**	**2.0**	**(0-20)**	**SW846 8270C**
Butyl benzyl phthalate	**81 DIL**	**(50 - 125)**			**SW846 8270C**
	79 DIL	**(50 - 125)**	**2.2**	**(0-35)**	**SW846 8270C**
Carbazole	**79 DIL**	**(45 - 115)**			**SW846 8270C**
	79 DIL	**(45 - 115)**	**0.08**	**(0-20)**	**SW846 8270C**
4-Chloroaniline	**22 DIL**	**(10 - 95)**			**SW846 8270C**
	21 DIL	**(10 - 95)**	**2.3**	**(0-28)**	**SW846 8270C**
2-Chloronaphthalene	**74 DIL**	**(45 - 105)**			**SW846 8270C**
	72 DIL	**(45 - 105)**	**1.8**	**(0-28)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	**78 DIL**	**(45 - 110)**			**SW846 8270C**
	79 DIL	**(45 - 110)**	**0.65**	**(0-29)**	**SW846 8270C**
Chrysene	**80 DIL**	**(55 - 110)**			**SW846 8270C**
	78 DIL	**(55 - 110)**	**1.6**	**(0-31)**	**SW846 8270C**
Dibenzo(a,h)anthracene	**86 DIL**	**(40 - 125)**			**SW846 8270C**
	82 DIL	**(40 - 125)**	**4.6**	**(0-55)**	**SW846 8270C**
Dibenzofuran	**79 DIL**	**(50 - 105)**			**SW846 8270C**
	81 DIL	**(50 - 105)**	**2.1**	**(0-27)**	**SW846 8270C**
Di-n-butyl phthalate	**83 DIL**	**(55 - 110)**			**SW846 8270C**
	82 DIL	**(55 - 110)**	**0.97**	**(0-24)**	**SW846 8270C**
1,2-Dichlorobenzene	**59 DIL**	**(45 - 95)**			**SW846 8270C**
	62 DIL	**(45 - 95)**	**3.8**	**(0-25)**	**SW846 8270C**
1,3-Dichlorobenzene	**56 DIL**	**(40 - 100)**			**SW846 8270C**
	58 DIL	**(40 - 100)**	**3.6**	**(0-46)**	**SW846 8270C**
3,3'-Dichlorobenzidine	**0.0 DIL,a**	**(10 - 130)**			**SW846 8270C**
	13 DIL,p	**(10 - 130)**	**200**	**(0-56)**	**SW846 8270C**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DX-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1D0-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dichlorophenol	78 DIL	(45 - 110)			SW846 8270C
	80 DIL	(45 - 110)	2.6	(0-27)	SW846 8270C
Diethyl phthalate	77 DIL	(50 - 115)			SW846 8270C
	77 DIL	(50 - 115)	0.30	(0-29)	SW846 8270C
2,4-Dimethylphenol	68 DIL	(30 - 105)			SW846 8270C
	72 DIL	(30 - 105)	6.9	(0-26)	SW846 8270C
Dimethyl phthalate	76 DIL	(50 - 110)			SW846 8270C
	75 DIL	(50 - 110)	0.80	(0-30)	SW846 8270C
4,6-Dinitro-2-methylphenol	72 DIL	(30 - 135)			SW846 8270C
	48 DIL	(30 - 135)	39	(0-39)	SW846 8270C
2,4-Dinitrophenol	103 DIL	(15 - 130)			SW846 8270C
	83 DIL	(15 - 130)	21	(0-56)	SW846 8270C
2,6-Dinitrotoluene	78 DIL	(50 - 110)			SW846 8270C
	81 DIL	(50 - 110)	4.9	(0-39)	SW846 8270C
Di-n-octyl phthalate	82 DIL	(40 - 130)			SW846 8270C
	78 DIL	(40 - 130)	5.1	(0-29)	SW846 8270C
Fluoranthene	80 DIL	(55 - 115)			SW846 8270C
	81 DIL	(55 - 115)	0.98	(0-23)	SW846 8270C
Fluorene	76 DIL	(50 - 110)			SW846 8270C
	77 DIL	(50 - 110)	0.22	(0-29)	SW846 8270C
Hexachlorobenzene	77 DIL	(45 - 120)			SW846 8270C
	78 DIL	(45 - 120)	2.5	(0-29)	SW846 8270C
Hexachlorobutadiene	68 DIL	(40 - 115)			SW846 8270C
	67 DIL	(40 - 115)	1.2	(0-25)	SW846 8270C
Hexachloroethane	57 DIL	(35 - 110)			SW846 8270C
	56 DIL	(35 - 110)	2.4	(0-29)	SW846 8270C
Indeno(1,2,3-cd)pyrene	83 DIL	(40 - 120)			SW846 8270C
	80 DIL	(40 - 120)	4.1	(0-37)	SW846 8270C
Isophorone	67 DIL	(45 - 110)			SW846 8270C
	66 DIL	(45 - 110)	1.9	(0-30)	SW846 8270C
2-Methylnaphthalene	86 DIL	(45 - 105)			SW846 8270C
	93 DIL	(45 - 105)	6.5	(0-27)	SW846 8270C
2-Methylphenol	69 DIL	(40 - 105)			SW846 8270C
	73 DIL	(40 - 105)	4.5	(0-29)	SW846 8270C
Naphthalene	64 DIL	(40 - 105)			SW846 8270C
	69 DIL	(40 - 105)	6.7	(0-25)	SW846 8270C
2-Nitroaniline	75 DIL	(45 - 120)			SW846 8270C
	75 DIL	(45 - 120)	0.14	(0-39)	SW846 8270C
3-Nitroaniline	39 DIL	(25 - 110)			SW846 8270C
	44 DIL	(25 - 110)	12	(0-45)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DX-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1D0-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitroaniline	**48 DIL**	**(35 - 115)**			**SW846 8270C**
	56 DIL	**(35 - 115)**	**15**	**(0-44)**	**SW846 8270C**
Nitrobenzene	**68 DIL**	**(40 - 115)**			**SW846 8270C**
	67 DIL	**(40 - 115)**	**0.62**	**(0-29)**	**SW846 8270C**
2-Nitrophenol	**66 DIL**	**(40 - 110)**			**SW846 8270C**
	69 DIL	**(40 - 110)**	**4.2**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**79 DIL**	**(50 - 115)**			**SW846 8270C**
	74 DIL	**(50 - 115)**	**5.7**	**(0-68)**	**SW846 8270C**
Phenanthrene	**76 DIL**	**(50 - 110)**			**SW846 8270C**
	78 DIL	**(50 - 110)**	**2.7**	**(0-20)**	**SW846 8270C**
2,4,5-Trichloro- phenol	**76 DIL**	**(50 - 110)**			**SW846 8270C**
	81 DIL	**(50 - 110)**	**6.4**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro- phenol	**73 DIL**	**(45 - 110)**			**SW846 8270C**
	73 DIL	**(45 - 110)**	**0.18**	**(0-29)**	**SW846 8270C**
Benzyl alcohol	**65 DIL**	**(20 - 125)**			**SW846 8270C**
	69 DIL	**(20 - 125)**	**6.6**	**(0-20)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**60 DIL**	**(20 - 115)**			**SW846 8270C**
	62 DIL	**(20 - 115)**	**2.6**	**(0-27)**	**SW846 8270C**
N-Nitrosodimethylamine	**55 DIL**	**(20 - 115)**			**SW846 8270C**
	57 DIL	**(20 - 115)**	**3.7**	**(0-47)**	**SW846 8270C**
1,2-Diphenylhydrazine (as Azobenzene)	**76 DIL**	**(1.0- 175)**			**SW846 8270C**
	73 DIL	**(1.0- 175)**	**5.0**	**(0-20)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	65 DIL	(45 - 105)
	65 DIL	(45 - 105)
2-Fluorophenol	63 DIL	(35 - 105)
	70 DIL	(35 - 105)
Phenol-d5	62 DIL	(40 - 100)
	69 DIL	(40 - 100)
2,4,6-Tribromophenol	64 DIL	(35 - 125)
	73 DIL	(35 - 125)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DX-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1D0-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	58 DIL	(35 - 100)
	63 DIL	(35 - 100)
Terphenyl-d14	80 DIL	(30 - 125)
	85 DIL	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DX-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1D0-MSD
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/01/10 **Analysis Date..:** 03/08/10
Prep Batch #...: 0060040
Dilution Factor: 4 **Initial Wgt/Vol:** 30.1 g **Final Wgt/Vol..:** 2 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	**ND**	**680**	**510**	**ug/kg**	**75**	**DIL**	**SW846 8270C**
	ND	**680**	**510**	**ug/kg**	**75**	**DIL 0.08**	**SW846 8270C**
4-Chloro-3-methylphenol	**ND**	**680**	**540**	**ug/kg**	**80**	**DIL**	**SW846 8270C**
	ND	**680**	**570**	**ug/kg**	**84**	**DIL 4.8**	**SW846 8270C**
2-Chlorophenol	**ND**	**680**	**450**	**ug/kg**	**66**	**DIL**	**SW846 8270C**
	ND	**680**	**480**	**ug/kg**	**70**	**DIL 6.1**	**SW846 8270C**
1,4-Dichlorobenzene	**ND**	**680**	**390**	**ug/kg**	**58**	**DIL**	**SW846 8270C**
	ND	**680**	**410**	**ug/kg**	**61**	**DIL 4.6**	**SW846 8270C**
2,4-Dinitrotoluene	**ND**	**680**	**500**	**ug/kg**	**73**	**DIL**	**SW846 8270C**
	ND	**680**	**520**	**ug/kg**	**76**	**DIL 3.4**	**SW846 8270C**
4-Nitrophenol	**ND**	**680**	**510**	**ug/kg**	**76**	**DIL**	**SW846 8270C**
	ND	**680**	**410**	**ug/kg**	**60**	**DIL 23**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**ND**	**680**	**420**	**ug/kg**	**62**	**DIL**	**SW846 8270C**
	ND	**680**	**440**	**ug/kg**	**65**	**DIL 3.8**	**SW846 8270C**
Pentachlorophenol	**ND**	**680**	**450**	**ug/kg**	**66**	**DIL**	**SW846 8270C**
	ND	**680**	**440**	**ug/kg**	**65**	**DIL 1.7**	**SW846 8270C**
Phenol	**ND**	**680**	**480**	**ug/kg**	**71**	**DIL**	**SW846 8270C**
	ND	**680**	**540**	**ug/kg**	**80**	**DIL 12**	**SW846 8270C**
Pyrene	**140**	**680**	**650**	**ug/kg**	**75**	**DIL**	**SW846 8270C**
	140	**680**	**660**	**ug/kg**	**77**	**DIL 2.1**	**SW846 8270C**
1,2,4-Trichloro- benzene	**ND**	**680**	**450**	**ug/kg**	**66**	**DIL**	**SW846 8270C**
	ND	**680**	**450**	**ug/kg**	**67**	**DIL 0.98**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**96**	**680**	**650**	**ug/kg**	**82**	**DIL**	**SW846 8270C**
	96	**680**	**660**	**ug/kg**	**83**	**DIL 1.6**	**SW846 8270C**
Acenaphthylene	**ND**	**680**	**510**	**ug/kg**	**76**	**DIL**	**SW846 8270C**
	ND	**680**	**510**	**ug/kg**	**75**	**DIL 1.3**	**SW846 8270C**
Anthracene	**ND**	**680**	**540**	**ug/kg**	**79**	**DIL**	**SW846 8270C**
	ND	**680**	**550**	**ug/kg**	**81**	**DIL 1.6**	**SW846 8270C**
Benzo(a)anthracene	**75**	**680**	**600**	**ug/kg**	**77**	**DIL**	**SW846 8270C**
	75	**680**	**610**	**ug/kg**	**78**	**DIL 1.9**	**SW846 8270C**
Benzo(b)fluoranthene	**120**	**680**	**670**	**ug/kg**	**82**	**DIL**	**SW846 8270C**
	120	**680**	**620**	**ug/kg**	**74**	**DIL 7.6**	**SW846 8270C**
Benzo(k)fluoranthene	**39**	**680**	**580**	**ug/kg**	**79**	**DIL**	**SW846 8270C**
	39	**680**	**600**	**ug/kg**	**83**	**DIL 4.4**	**SW846 8270C**

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DX-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1D0-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzo(ghi)perylene	**54**	**680**	**620**	**ug/kg**	**83 DIL**		**SW846 8270C**
	54	**680**	**590**	**ug/kg**	**80 DIL**	**3.4**	**SW846 8270C**
Benzo(a)pyrene	**70**	**680**	**540**	**ug/kg**	**69 DIL**		**SW846 8270C**
	70	**680**	**520**	**ug/kg**	**66 DIL**	**4.2**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**ND**	**680**	**490**	**ug/kg**	**72 DIL**		**SW846 8270C**
	ND	**680**	**480**	**ug/kg**	**71 DIL**	**1.3**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**ND**	**680**	**420**	**ug/kg**	**61 DIL**		**SW846 8270C**
	ND	**680**	**430**	**ug/kg**	**63 DIL**	**3.2**	**SW846 8270C**
4-Bromophenyl phenyl ether	**ND**	**680**	**550**	**ug/kg**	**81 DIL**		**SW846 8270C**
	ND	**680**	**540**	**ug/kg**	**79 DIL**	**2.0**	**SW846 8270C**
Butyl benzyl phthalate	**ND**	**680**	**550**	**ug/kg**	**81 DIL**		**SW846 8270C**
	ND	**680**	**540**	**ug/kg**	**79 DIL**	**2.2**	**SW846 8270C**
Carbazole	**ND**	**680**	**530**	**ug/kg**	**79 DIL**		**SW846 8270C**
	ND	**680**	**530**	**ug/kg**	**79 DIL**	**0.08**	**SW846 8270C**
4-Chloroaniline	**ND**	**680**	**150**	**ug/kg**	**22 DIL**		**SW846 8270C**
	ND	**680**	**140**	**ug/kg**	**21 DIL**	**2.3**	**SW846 8270C**
2-Chloronaphthalene	**ND**	**680**	**500**	**ug/kg**	**74 DIL**		**SW846 8270C**
	ND	**680**	**490**	**ug/kg**	**72 DIL**	**1.8**	**SW846 8270C**
4-Chlorophenyl phenyl ether	**ND**	**680**	**530**	**ug/kg**	**78 DIL**		**SW846 8270C**
	ND	**680**	**540**	**ug/kg**	**79 DIL**	**0.65**	**SW846 8270C**
Chrysene	**86**	**680**	**630**	**ug/kg**	**80 DIL**		**SW846 8270C**
	86	**680**	**620**	**ug/kg**	**78 DIL**	**1.6**	**SW846 8270C**
Dibenzo(a,h)anthracene	**ND**	**680**	**590**	**ug/kg**	**86 DIL**		**SW846 8270C**
	ND	**680**	**560**	**ug/kg**	**82 DIL**	**4.6**	**SW846 8270C**
Dibenzofuran	**ND**	**680**	**540**	**ug/kg**	**79 DIL**		**SW846 8270C**
	ND	**680**	**550**	**ug/kg**	**81 DIL**	**2.1**	**SW846 8270C**
Di-n-butyl phthalate	**ND**	**680**	**560**	**ug/kg**	**83 DIL**		**SW846 8270C**
	ND	**680**	**560**	**ug/kg**	**82 DIL**	**0.97**	**SW846 8270C**
1,2-Dichlorobenzene	**ND**	**680**	**400**	**ug/kg**	**59 DIL**		**SW846 8270C**
	ND	**680**	**420**	**ug/kg**	**62 DIL**	**3.8**	**SW846 8270C**
1,3-Dichlorobenzene	**ND**	**680**	**380**	**ug/kg**	**56 DIL**		**SW846 8270C**
	ND	**680**	**390**	**ug/kg**	**58 DIL**	**3.6**	**SW846 8270C**
3,3'-Dichlorobenzidine	**ND**	**680**	**0.0**	**ug/kg**	**0.0**		**SW846 8270C**
	Qualifiers: DIL,a						
	ND	**680**	**88**	**ug/kg**	**13**	**200**	**SW846 8270C**
	Qualifiers: DIL,p						

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DX-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1D0-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dichlorophenol	**ND**	**680**	**530**	**ug/kg**	**78**	**DIL**	**SW846 8270C**
	ND	**680**	**540**	**ug/kg**	**80**	**DIL 2.6**	**SW846 8270C**
Diethyl phthalate	**ND**	**680**	**530**	**ug/kg**	**77**	**DIL**	**SW846 8270C**
	ND	**680**	**520**	**ug/kg**	**77**	**DIL 0.30**	**SW846 8270C**
2,4-Dimethylphenol	**ND**	**680**	**460**	**ug/kg**	**68**	**DIL**	**SW846 8270C**
	ND	**680**	**490**	**ug/kg**	**72**	**DIL 6.9**	**SW846 8270C**
Dimethyl phthalate	**ND**	**680**	**520**	**ug/kg**	**76**	**DIL**	**SW846 8270C**
	ND	**680**	**510**	**ug/kg**	**75**	**DIL 0.80**	**SW846 8270C**
4,6-Dinitro- 2-methylphenol	**ND**	**680**	**490**	**ug/kg**	**72**	**DIL**	**SW846 8270C**
	ND	**680**	**330**	**ug/kg**	**48**	**DIL 39**	**SW846 8270C**
2,4-Dinitrophenol	**ND**	**680**	**700**	**ug/kg**	**103**		**SW846 8270C**
	Qualifiers: DIL						
	ND	**680**	**560**	**ug/kg**	**83**	**DIL 21**	**SW846 8270C**
2,6-Dinitrotoluene	**ND**	**680**	**530**	**ug/kg**	**78**	**DIL**	**SW846 8270C**
	ND	**680**	**550**	**ug/kg**	**81**	**DIL 4.9**	**SW846 8270C**
Di-n-octyl phthalate	**ND**	**680**	**550**	**ug/kg**	**82**	**DIL**	**SW846 8270C**
	ND	**680**	**530**	**ug/kg**	**78**	**DIL 5.1**	**SW846 8270C**
Fluoranthene	**190**	**680**	**730**	**ug/kg**	**80**	**DIL**	**SW846 8270C**
	190	**680**	**730**	**ug/kg**	**81**	**DIL 0.98**	**SW846 8270C**
Fluorene	**ND**	**680**	**520**	**ug/kg**	**76**	**DIL**	**SW846 8270C**
	ND	**680**	**520**	**ug/kg**	**77**	**DIL 0.22**	**SW846 8270C**
Hexachlorobenzene	**ND**	**680**	**520**	**ug/kg**	**77**	**DIL**	**SW846 8270C**
	ND	**680**	**530**	**ug/kg**	**78**	**DIL 2.5**	**SW846 8270C**
Hexachlorobutadiene	**ND**	**680**	**460**	**ug/kg**	**68**	**DIL**	**SW846 8270C**
	ND	**680**	**460**	**ug/kg**	**67**	**DIL 1.2**	**SW846 8270C**
Hexachloroethane	**ND**	**680**	**390**	**ug/kg**	**57**	**DIL**	**SW846 8270C**
	ND	**680**	**380**	**ug/kg**	**56**	**DIL 2.4**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**43**	**680**	**610**	**ug/kg**	**83**	**DIL**	**SW846 8270C**
	43	**680**	**580**	**ug/kg**	**80**	**DIL 4.1**	**SW846 8270C**
Isophorone	**ND**	**680**	**450**	**ug/kg**	**67**	**DIL**	**SW846 8270C**
	ND	**680**	**440**	**ug/kg**	**66**	**DIL 1.9**	**SW846 8270C**
2-Methylnaphthalene	**150**	**680**	**730**	**ug/kg**	**86**	**DIL**	**SW846 8270C**
	150	**680**	**780**	**ug/kg**	**93**	**DIL 6.5**	**SW846 8270C**
2-Methylphenol	**ND**	**680**	**470**	**ug/kg**	**69**	**DIL**	**SW846 8270C**
	ND	**680**	**490**	**ug/kg**	**73**	**DIL 4.5**	**SW846 8270C**
Naphthalene	**88**	**680**	**520**	**ug/kg**	**64**	**DIL**	**SW846 8270C**
	88	**680**	**560**	**ug/kg**	**69**	**DIL 6.7**	**SW846 8270C**
2-Nitroaniline	**ND**	**680**	**510**	**ug/kg**	**75**	**DIL**	**SW846 8270C**
	ND	**680**	**510**	**ug/kg**	**75**	**DIL 0.14**	**SW846 8270C**
3-Nitroaniline	**ND**	**680**	**270**	**ug/kg**	**39**	**DIL**	**SW846 8270C**
	ND	**680**	**300**	**ug/kg**	**44**	**DIL 12**	**SW846 8270C**

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DX-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1D0-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitroaniline	**ND**	**680**	**330**	**ug/kg**	**48 DIL**		**SW846 8270C**
	ND	**680**	**380**	**ug/kg**	**56 DIL**	**15**	**SW846 8270C**
Nitrobenzene	**ND**	**680**	**460**	**ug/kg**	**68 DIL**		**SW846 8270C**
	ND	**680**	**460**	**ug/kg**	**67 DIL**	**0.62**	**SW846 8270C**
2-Nitrophenol	**ND**	**680**	**450**	**ug/kg**	**66 DIL**		**SW846 8270C**
	ND	**680**	**470**	**ug/kg**	**69 DIL**	**4.2**	**SW846 8270C**
N-Nitrosodiphenylamine	**ND**	**680**	**530**	**ug/kg**	**79 DIL**		**SW846 8270C**
	ND	**680**	**500**	**ug/kg**	**74 DIL**	**5.7**	**SW846 8270C**
Phenanthrene	**140**	**680**	**650**	**ug/kg**	**76 DIL**		**SW846 8270C**
	140	**680**	**670**	**ug/kg**	**78 DIL**	**2.7**	**SW846 8270C**
2,4,5-Trichloro- phenol	**ND**	**680**	**510**	**ug/kg**	**76 DIL**		**SW846 8270C**
	ND	**680**	**550**	**ug/kg**	**81 DIL**	**6.4**	**SW846 8270C**
2,4,6-Trichloro- phenol	**ND**	**680**	**500**	**ug/kg**	**73 DIL**		**SW846 8270C**
	ND	**680**	**500**	**ug/kg**	**73 DIL**	**0.18**	**SW846 8270C**
Benzyl alcohol	**ND**	**680**	**440**	**ug/kg**	**65 DIL**		**SW846 8270C**
	ND	**680**	**470**	**ug/kg**	**69 DIL**	**6.6**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**ND**	**680**	**410**	**ug/kg**	**60 DIL**		**SW846 8270C**
	ND	**680**	**420**	**ug/kg**	**62 DIL**	**2.6**	**SW846 8270C**
N-Nitrosodimethylamine	**ND**	**680**	**370**	**ug/kg**	**55 DIL**		**SW846 8270C**
	ND	**680**	**390**	**ug/kg**	**57 DIL**	**3.7**	**SW846 8270C**
1,2-Diphenylhydrazine (as Azobenzene)	**ND**	**680**	**520**	**ug/kg**	**76 DIL**		**SW846 8270C**
	ND	**680**	**490**	**ug/kg**	**73 DIL**	**5.0**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	65 DIL	(45 - 105)
	65 DIL	(45 - 105)
2-Fluorophenol	63 DIL	(35 - 105)
	70 DIL	(35 - 105)
Phenol-d5	62 DIL	(40 - 100)
	69 DIL	(40 - 100)
2,4,6-Tribromophenol	64 DIL	(35 - 125)
	73 DIL	(35 - 125)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DX-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1D0-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	58 DIL	(35 - 100)
	63 DIL	(35 - 100)
Terphenyl-d14	80 DIL	(30 - 125)
	85 DIL	(30 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\LV3LM1DX.D
Lab Smp Id: lv3lm1dx Client Smp ID: F16SS-027M-5432-SO
Inj Date : 08-MAR-2010 13:28
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3lm1dx,00308a.b,8270c-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Meth Date : 09-Mar-2010 11:04 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 12 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1	1,4-Dichlorobenzene-d4	152	3.565	3.560	(1.000)	267704	2.00000		(Q)
* 2	Naphthalene-d8	136	4.453	4.453	(1.000)	1056900	2.00000		
* 3	Acenaphthene-d10	164	5.721	5.721	(1.000)	598901	2.00000		
* 4	Phenanthrene-d10	188	6.807	6.807	(1.000)	954876	2.00000		
* 5	Chrysene-d12	240	8.769	8.769	(1.000)	1111671	2.00000		
* 6	Perylene-d12	264	10.251	10.235	(1.000)	1047390	2.00000		
9	Pyridine	79	Compound Not Detected.						
10	N-Nitrosodimethylamine	74	1.929	1.929	(0.541)	61260	0.68920	366.35	
11	Ethyl methacrylate	69	Compound Not Detected.						
12	3-Chloropropionitrile	54	Compound Not Detected.						
13	Malononitrile	66	Compound Not Detected.						
209	Benzaldehyde	77	3.282	3.271	(0.920)	85784	0.79883	424.62	
21	Aniline	93	3.341	3.335	(0.937)	42486	0.16418	87.273	
22	Phenol	94	3.282	3.271	(0.920)	187542	0.88441	470.12	
23	bis(2-Chloroethyl)ether	93	3.362	3.357	(0.943)	136123	0.76717	407.80	
24	2-Chlorophenol	128	3.426	3.415	(0.961)	142710	0.82951	440.94	
26	1,3-Dichlorobenzene	146	3.528	3.522	(0.989)	121767	0.69501	369.44	
27	1,4-Dichlorobenzene	146	3.576	3.571	(1.003)	125647	0.72544	385.62	

28	1,2-Dichlorobenzene	146	3.683	3.678 (1.033)	124150	0.74195	394.39
29	Benzyl Alcohol	108	3.635	3.629 (1.020)	91511	0.81003	430.58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
30	2-Methylphenol	108	3.688	3.688	(1.034)	135485	0.86857	461.70
31	bis(2-Chloroisopropyl)ether	45	3.715	3.715	(1.042)	188789	0.75308	400.31
37	Acetophenone	105	3.827	3.827	(1.073)	180797	0.79700	423.66
32	N-Nitroso-di-n-propylamine	70	3.806	3.811	(1.067)	94324	0.77817	413.64(M)
192	4-Methylphenol	108	3.790	3.790	(1.063)	279739	1.71104	909.52
34	Hexachloroethane	117	3.918	3.918	(1.099)	46210	0.71380	379.43
35	Nitrobenzene	77	3.950	3.950	(0.887)	133243	0.84472	449.02
41	Isophorone	82	4.105	4.111	(0.922)	264050	0.83647	444.64
42	2-Nitrophenol	139	4.170	4.170	(0.936)	69680	0.82527	438.68(Q)
43	2,4-Dimethylphenol	107	4.170	4.164	(0.936)	133470	0.84642	449.92
44	bis(2-Chloroethoxy)methane	93	4.239	4.239	(0.952)	165136	0.89889	477.82
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	4.335	4.335	(0.974)	120529	0.97757	519.64
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.405	4.405	(0.989)	111148	0.82674	439.46
51	Naphthalene	128	4.469	4.469	(1.004)	470215	0.96219	511.46
52	4-Chloroaniline	127	4.491	4.485	(1.008)	56768	0.26924	143.12(R)
56	Hexachlorobutadiene	225	4.539	4.539	(1.019)	59742	0.85236	453.08
210	Caprolactam	113	4.726	4.747	(1.061)	38076	0.68109	362.04(Q)
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	4.806	4.811	(1.079)	138679	0.99882	530.93
62	2-Methylnaphthalene	142	4.961	4.961	(1.114)	358321	1.34685	715.93(R)
63	1-Methylnaphthalene	142	5.031	5.031	(1.130)	334762	1.09428	581.68
64	Hexachlorocyclopentadiene	237	5.063	5.063	(0.885)	19242	0.38492	204.61
66	2,4,6-Trichlorophenol	196	5.148	5.148	(0.900)	81699	0.91581	486.81
67	2,4,5-Trichlorophenol	196	5.175	5.181	(0.905)	90934	0.94900	504.45
211	1,1'-Biphenyl	154	5.288	5.287	(0.924)	357606	0.87551	465.38
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	5.314	5.314	(0.929)	279112	0.91992	488.99
73	2-Nitroaniline	65	5.373	5.373	(0.939)	83624	0.93910	499.19
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	5.485	5.485	(0.959)	331954	0.95163	505.85
78	2,6-Dinitrotoluene	165	5.539	5.539	(0.968)	75483	0.96987	515.54
79	Acenaphthylene	152	5.619	5.619	(0.982)	471439	0.94568	502.69
80	1,2-Dinitrobenzene	168	5.582	5.587	(0.976)	36220	0.93429	496.63
81	3-Nitroaniline	138	5.667	5.673	(0.991)	42727	0.49084	260.91(R)
82	Acenaphthene	153	5.742	5.742	(1.004)	299153	0.93304	495.97
83	2,4-Dinitrophenol	184	5.742	5.742	(1.004)	18066	1.28451	682.80(QR)
85	4-Nitrophenol	109	5.758	5.758	(1.007)	40044	0.94773	503.77
86	Dibenzofuran	168	5.865	5.870	(1.025)	426737	0.99075	526.65(R)
87	2,4-Dinitrotoluene	165	5.833	5.833	(1.020)	97693	0.91810	488.02
91	2,3,5,6-Tetrachlorophenol	232	5.913	5.913	(1.034)	65441	0.81243	431.86
93	Diethylphthalate	149	5.988	5.988	(1.047)	346158	0.96820	514.66
94	Fluorene	166	6.117	6.117	(1.069)	349770	0.95563	507.98
95	4-Chlorophenyl-phenylether	204	6.095	6.100	(1.065)	159892	0.98077	521.34
96	4-Nitroaniline	138	6.111	6.117	(1.068)	55110	0.60367	320.89(R)
98	4,6-Dinitro-2-methylphenol	198	6.127	6.133	(0.900)	35005	0.90100	478.94
99	N-Nitrosodiphenylamine	169	6.181	6.181	(0.908)	252476	0.98619	524.22
100	1,2-Diphenylhydrazine	77	6.213	6.213	(0.913)	334030	0.95551	507.91
106	4-Bromophenyl-phenylether	248	6.459	6.459	(0.949)	92854	1.01051	537.15
107	Hexachlorobenzene	284	6.512	6.518	(0.957)	86436	0.95671	508.55

212 Atrazine	200	6.544	6.544 (0.961)	94194	1.47741	785.33(R)
111 Pentachlorophenol	266	6.651	6.651 (0.977)	40999	0.82876	440.54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
115	Phenanthrene	178	6.823	6.823	(1.002)	621091	1.19735	636.47
116	Anthracene	178	6.860	6.860	(1.008)	519020	0.99336	528.03
119	Carbazole	167	6.962	6.962	(1.023)	480489	0.98539	523.80
120	Di-n-Butylphthalate	149	7.170	7.170	(1.053)	613008	1.03584	550.61
123	Fluoranthene	202	7.694	7.689	(1.130)	711120	1.33781	711.13
124	Benzidine	184	Compound Not Detected.					
125	Pyrene	202	7.866	7.866	(0.897)	683691	1.19295	634.13
131	Butylbenzylphthalate	149	8.283	8.277	(0.945)	270879	1.01086	537.33
133	3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136	Benzo(a)Anthracene	228	8.764	8.759	(0.999)	604189	1.09809	583.70
137	Chrysene	228	8.791	8.791	(1.002)	599548	1.15475	613.82
138	4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139	bis(2-ethylhexyl)Phthalate	149	8.689	8.684	(0.991)	458655	1.20100	638.40
140	Di-n-octylphthalate	149	9.256	9.245	(0.903)	670948	1.02119	542.82
141	Benzo(b)fluoranthene	252	9.786	9.780	(0.955)	664519	1.23436	656.14
142	Benzo(k)fluoranthene	252	9.812	9.807	(0.957)	608846	1.06286	564.98
146	Benzo(a)pyrene	252	10.182	10.176	(0.993)	514735	0.99598	529.43
149	Indeno(1,2,3-cd)pyrene	276	11.861	11.861	(1.157)	647366	1.12089	595.82
150	Dibenz(a,h)anthracene	278	11.877	11.877	(1.159)	524879	1.07959	573.87
151	Benzo(g,h,i)perylene	276	12.364	12.353	(1.206)	546608	1.13422	602.90
198	1,4-Dioxane	88	1.757	1.763	(0.493)	18238	0.31642	168.20
$ 154	Nitrobenzene-d5	82	3.940	3.940	(0.885)	116169	0.72748	386.70
$ 155	2-Fluorobiphenyl	172	5.207	5.207	(0.910)	279647	0.80938	430.23
$ 156	Terphenyl-d14	244	7.946	7.940	(0.906)	348730	0.99859	530.81
$ 157	Phenol-d5	99	3.271	3.260	(0.917)	232422	1.15886	616.01
$ 158	2-Fluorophenol	112	2.747	2.688	(0.770)	178880	1.17836	626.37
$ 159	2,4,6-Tribromophenol	330	6.293	6.288	(1.100)	48842	1.20844	642.36
$ 186	2-Chlorophenol-d4	132	3.416	3.405	(0.958)	195701	1.23437	656.14
$ 187	1,2-Dichlorobenzene-d4	152	3.672	3.667	(1.030)	71712	0.67038	356.35
M 195	Cresols, total	100				415224	2.57961	1371.2
101	Diphenylamine	169	6.181	6.181	(0.908)	252476	0.98619	524.22

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: LV3LM1DX.D
Lab Smp Id: lv3lm1dx
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\8270C-625.m
Misc Info:

Calibration Date: 08-MAR-2010
Calibration Time: 10:16
Client Smp ID: F16SS-027M-5432-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	388613	194307	777226	267704	-31.11
2 Naphthalene-d8	1628032	814016	3256064	1056900	-35.08
3 Acenaphthene-d10	875709	437855	1751418	598901	-31.61
4 Phenanthrene-d10	1398875	699438	2797750	954876	-31.74
5 Chrysene-d12	1597704	798852	3195408	1111671	-30.42
6 Perylene-d12	1473841	736921	2947682	1047390	-28.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.56	3.06	4.06	3.57	0.15
2 Naphthalene-d8	4.45	3.95	4.95	4.45	0.00
3 Acenaphthene-d10	5.72	5.22	6.22	5.72	0.00
4 Phenanthrene-d10	6.81	6.31	7.31	6.81	0.00
5 Chrysene-d12	8.77	8.27	9.27	8.77	0.00
6 Perylene-d12	10.24	9.74	10.74	10.25	0.16

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00308a.b\LV3LM1DX.D

Page 1

Date : 08-MAR-2010 13:28

Client ID: F16SS-027M-5432-SO

Instrument: a4hp7.i

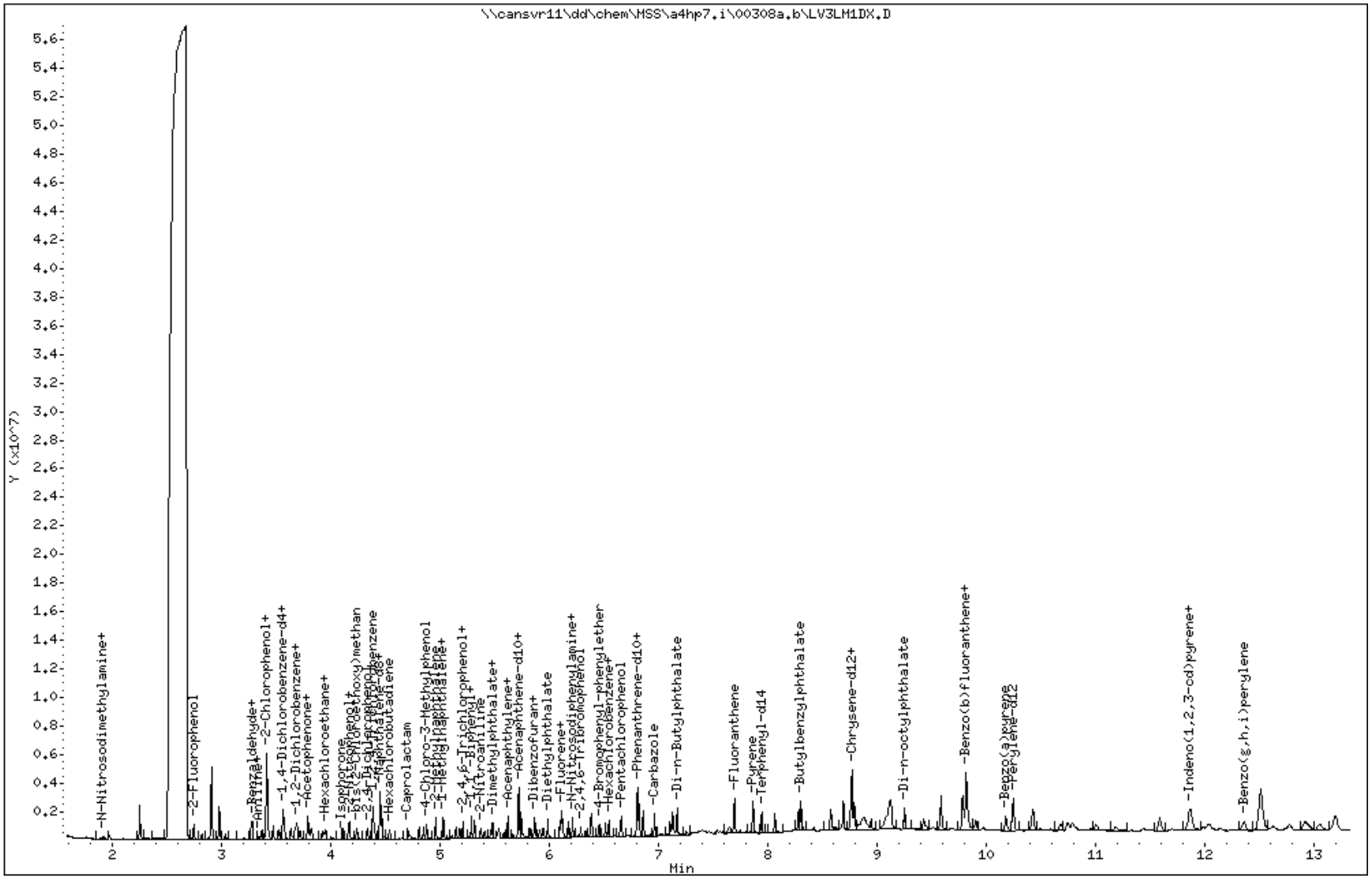
Sample Info: lv3lm1dx,00308a,b,8270c-625,1-827042d.sub

Volume Injected (uL): 0.5

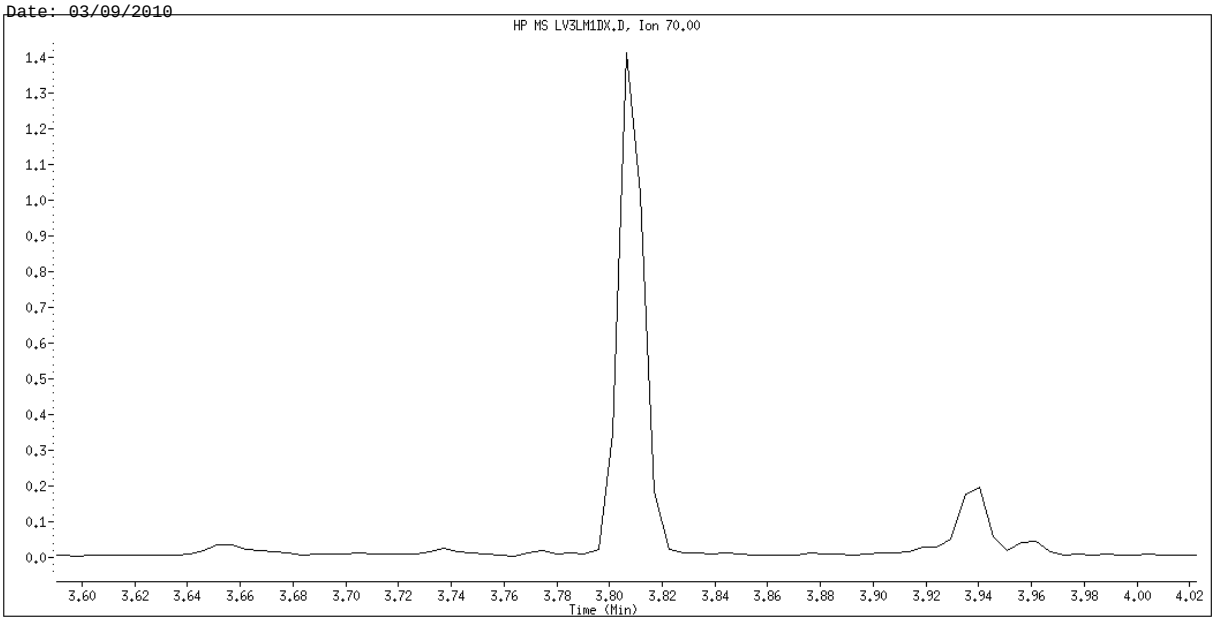
Operator: 001710

Column phase: db5.625

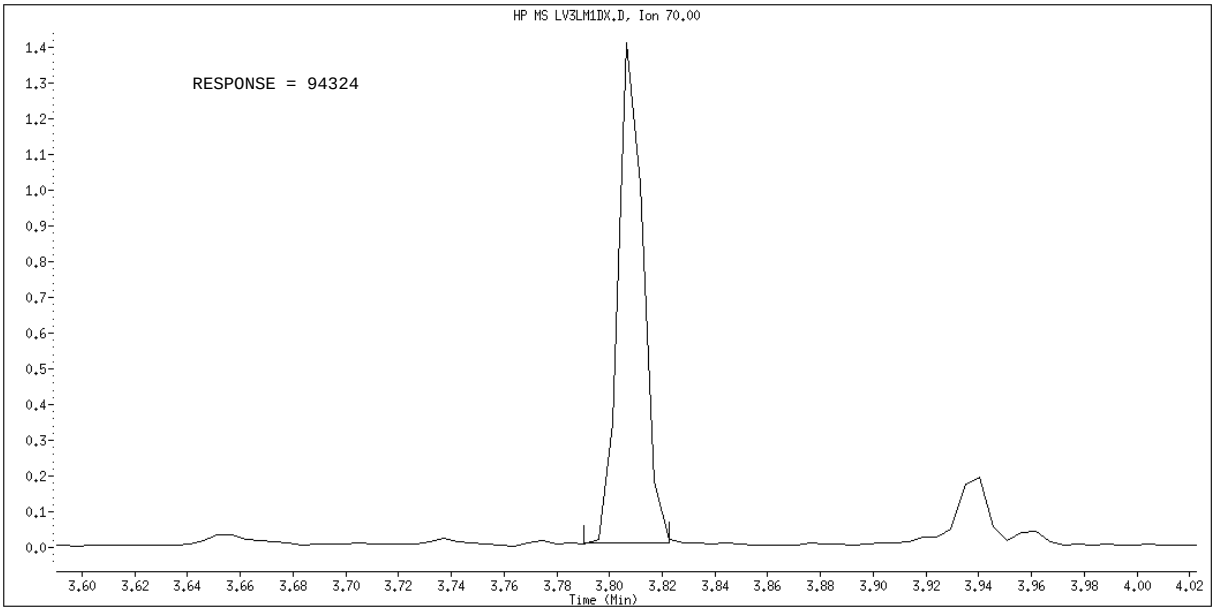
Column diameter: 0.32



Data File Name: LV3LM1DX.D
Inj. Date and Time: 08-MAR-2010 13:28
Instrument ID: a4hp7.i
Client ID: F16SS-027M-5432-SO
Compound Name: N-Nitroso-di-n-propylamine
CAS #: 621-64-7
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: GruberJ
Manual Integration Reason: Peak not found

TestAmerica North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\LV3LM1D0.D
Lab Smp Id: lv3lm1d0 Client Smp ID: F16SS-027M-5432-SO
Inj Date : 09-MAR-2010 15:16
Operator : 001710 Inst ID: a4hp7.i
Smp Info : lv3lm1d0,00309a.b,8270c-625,1-827042d.sub
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270C-625.m
Meth Date : 10-Mar-2010 09:20 gruberj Quant Type: ISTD
Cal Date : 05-MAR-2010 12:55 Cal File: 7SMH0305.D
Als bottle: 99 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 1-827042d.sub
Target Version: 4.14
Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws *) * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	2000.000	Volume of final extract (uL)(1000 low, 2
Vi	0.50000	Volume injected (uL)
Ws	30.080	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)	
* 1	1,4-Dichlorobenzene-d4	152	3.525	3.514	(1.000)	340961	2.00000		(Q)
* 2	Naphthalene-d8	136	4.413	4.407	(1.000)	1439835	2.00000		
* 3	Acenaphthene-d10	164	5.675	5.675	(1.000)	865829	2.00000		
* 4	Phenanthrene-d10	188	6.761	6.761	(1.000)	1443663	2.00000		
* 5	Chrysene-d12	240	8.718	8.718	(1.000)	1680166	2.00000		
* 6	Perylene-d12	264	10.168	10.157	(1.000)	1617601	2.00000		
9	Pyridine	79	Compound Not Detected.						
10	N-Nitrosodimethylamine	74	1.888	1.883	(0.536)	80932	0.71489	380.26	
11	Ethyl methacrylate	69	Compound Not Detected.						
12	3-Chloropropionitrile	54	Compound Not Detected.						
13	Malononitrile	66	Compound Not Detected.						
209	Benzaldehyde	77	3.247	3.225	(0.921)	120134	0.87834	467.20	
21	Aniline	93	Compound Not Detected.						
22	Phenol	94	3.252	3.231	(0.923)	268650	0.99470	529.09	
23	bis(2-Chloroethyl)ether	93	3.327	3.311	(0.944)	178957	0.79188	421.21	
24	2-Chlorophenol	128	3.391	3.370	(0.962)	193092	0.88122	468.73	
26	1,3-Dichlorobenzene	146	3.487	3.477	(0.989)	160759	0.72042	383.20	
27	1,4-Dichlorobenzene	146	3.536	3.525	(1.003)	167512	0.75936	403.91	

28 1,2-Dichlorobenzene	146	3.643	3.632 (1.033)	164163	0.77029	409.73
29 Benzyl Alcohol	108	3.600	3.589 (1.021)	124459	0.86498	460.09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
30	2-Methylphenol	108	3.659	3.642	(1.038)	180434	0.90820	483.09
31	bis(2-Chloroisopropyl)ether	45	3.680	3.675	(1.044)	246715	0.77270	411.01
37	Acetophenone	105	3.787	3.781	(1.074)	256033	0.88616	471.36
32	N-Nitroso-di-n-propylamine	70	3.771	3.771	(1.070)	124696	0.80771	429.63
192	4-Methylphenol	108	3.760	3.749	(1.067)	388246	1.86451	991.76
34	Hexachloroethane	117	3.873	3.872	(1.099)	57400	0.69615	370.29
35	Nitrobenzene	77	3.910	3.910	(0.886)	180268	0.83890	446.22
41	Isophorone	82	4.070	4.065	(0.922)	352584	0.81988	436.11
42	2-Nitrophenol	139	4.135	4.129	(0.937)	98957	0.86031	457.61(Q)
43	2,4-Dimethylphenol	107	4.129	4.124	(0.936)	194643	0.90607	481.95
44	bis(2-Chloroethoxy)methane	93	4.199	4.199	(0.952)	221857	0.88646	471.52
46	2,4-Toluenediamene	121	Compound Not Detected.					
47	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48	2,4-Dichlorophenol	162	4.300	4.290	(0.975)	168354	1.00231	533.14
49	Benzoic Acid	122	Compound Not Detected.					
50	1,2,4-Trichlorobenzene	180	4.359	4.359	(0.988)	152814	0.83436	443.81
51	Naphthalene	128	4.429	4.423	(1.004)	684690	1.02844	547.04
52	4-Chloroaniline	127	4.450	4.445	(1.008)	75499	0.26284	139.81(R)
56	Hexachlorobutadiene	225	4.493	4.493	(1.018)	80341	0.84140	447.55
210	Caprolactam	113	4.707	4.707	(1.067)	20584	0.27027	143.76(Q)
57	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59	4-Chloro-3-Methylphenol	107	4.771	4.766	(1.081)	198078	1.04721	557.03
62	2-Methylnaphthalene	142	4.916	4.915	(1.114)	520519	1.43616	763.92(R)
63	1-Methylnaphthalene	142	4.990	4.990	(1.131)	478660	1.14853	610.92
64	Hexachlorocyclopentadiene	237	5.022	5.017	(0.885)	9009	0.19978	106.27(R)
66	2,4,6-Trichlorophenol	196	5.108	5.103	(0.900)	118248	0.91687	487.70
67	2,4,5-Trichlorophenol	196	5.140	5.135	(0.906)	140007	1.01068	537.60
211	1,1'-Biphenyl	154	5.247	5.242	(0.925)	546183	0.92494	491.99
68	1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70	2-Chloronaphthalene	162	5.274	5.274	(0.929)	395866	0.90249	480.05
73	2-Nitroaniline	65	5.333	5.333	(0.940)	120635	0.93708	498.45
74	1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76	Dimethylphthalate	163	5.445	5.440	(0.959)	475739	0.94337	501.79
78	2,6-Dinitrotoluene	165	5.499	5.498	(0.969)	114571	1.01826	541.63
79	Acenaphthylene	152	5.579	5.573	(0.983)	672525	0.93315	496.36
80	1,2-Dinitrobenzene	168	5.541	5.547	(0.976)	53125	0.94789	504.19
81	3-Nitroaniline	138	5.632	5.627	(0.992)	69414	0.55158	293.39(R)
82	Acenaphthene	153	5.702	5.696	(1.005)	432586	0.93326	496.41
83	2,4-Dinitrophenol	184	5.718	5.702	(1.008)	1875	1.03874	552.52(Q)
85	4-Nitrophenol	109	5.734	5.718	(1.010)	46033	0.75359	400.85
86	Dibenzofuran	168	5.825	5.825	(1.026)	629876	1.01154	538.05(R)
87	2,4-Dinitrotoluene	165	5.793	5.793	(1.021)	146049	0.94939	505.00
91	2,3,5,6-Tetrachlorophenol	232	5.873	5.867	(1.035)	99079	0.85083	452.57
93	Diethylphthalate	149	5.948	5.948	(1.048)	498614	0.96467	513.12
94	Fluorene	166	6.076	6.071	(1.071)	506472	0.95717	509.13
95	4-Chlorophenyl-phenylether	204	6.055	6.055	(1.067)	232509	0.98651	524.74
96	4-Nitroaniline	138	6.076	6.071	(1.071)	92966	0.70440	374.68(R)
98	4,6-Dinitro-2-methylphenol	198	6.092	6.087	(0.901)	22985	0.60508	321.85
99	N-Nitrosodiphenylamine	169	6.135	6.135	(0.907)	360146	0.93046	494.93
100	1,2-Diphenylhydrazine	77	6.172	6.172	(0.913)	479968	0.90812	483.04
106	4-Bromophenyl-phenylether	248	6.413	6.413	(0.949)	137472	0.98955	526.36
107	Hexachlorobenzene	284	6.472	6.467	(0.957)	133893	0.98022	521.40

212 Atrazine	200	6.504	6.504 (0.962)	144843	1.50264	799.28(R)
111 Pentachlorophenol	266	6.611	6.606 (0.978)	60527	0.81414	433.05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/kg)
115 Phenanthrene	178	6.782	6.777	(1.003)	964055	1.22928	653.87
116 Anthracene	178	6.820	6.814	(1.009)	796919	1.00883	536.61
119 Carbazole	167	6.921	6.921	(1.024)	725360	0.98392	523.36
120 Di-n-Butylphthalate	149	7.130	7.124	(1.055)	917189	1.02510	545.27
123 Fluoranthene	202	7.649	7.643	(1.131)	1085089	1.35020	718.19
124 Benzidine	184	Compound Not Detected.					
125 Pyrene	202	7.820	7.820	(0.897)	1054575	1.21749	647.60
131 Butylbenzylphthalate	149	8.237	8.237	(0.945)	400053	0.98777	525.41
133 3,3'-Dimethoxybenzidine	244	Compound Not Detected.					
135 3,3'-Dichlorobenzidine	252	8.665	8.665	(0.994)	49297	0.16282	86.607(R)
136 Benzo(a)Anthracene	228	8.708	8.713	(0.999)	930145	1.11851	594.95
137 Chrysene	228	8.740	8.740	(1.002)	891173	1.13567	604.08
138 4,4'-Methylene bis(o-chloroan	231	Compound Not Detected.					
139 bis(2-ethylhexyl)Phthalate	149	8.638	8.643	(0.991)	704038	1.21977	648.81
140 Di-n-octylphthalate	149	9.189	9.194	(0.904)	983811	0.96954	515.71
141 Benzo(b)fluoranthene	252	9.713	9.713	(0.955)	950892	1.14367	608.34
142 Benzo(k)fluoranthene	252	9.740	9.740	(0.958)	982099	1.11010	590.48
146 Benzo(a)pyrene	252	10.098	10.098	(0.993)	762040	0.95474	507.84
149 Indeno(1,2,3-cd)pyrene	276	11.740	11.735	(1.155)	959336	1.07552	572.08
150 Dibenz(a,h)anthracene	278	11.756	11.751	(1.156)	773742	1.03046	548.12
151 Benzo(g,h,i)perylene	276	12.227	12.222	(1.203)	815344	1.09546	582.69
198 1,4-Dioxane	88	1.717	1.712	(0.487)	24495	0.33367	177.48
$ 154 Nitrobenzene-d5	82	3.899	3.894	(0.884)	171234	0.78712	418.68
$ 155 2-Fluorobiphenyl	172	5.167	5.167	(0.910)	408817	0.81845	435.35
$ 156 Terphenyl-d14	244	7.900	7.895	(0.906)	564015	1.06860	568.40
$ 157 Phenol-d5	99	3.241	3.220	(0.920)	332566	1.30192	692.51
$ 158 2-Fluorophenol	112	2.728	2.642	(0.774)	253126	1.30919	696.38(H)
$ 159 2,4,6-Tribromophenol	330	6.247	6.247	(1.101)	79528	1.36105	723.96
$ 186 2-Chlorophenol-d4	132	3.380	3.359	(0.959)	277495	1.37422	730.97
$ 187 1,2-Dichlorobenzene-d4	152	3.632	3.621	(1.030)	99571	0.73082	388.74
M 195 Cresols, total	100				568680	2.77271	1474.8
101 Diphenylamine	169	6.135	6.135	(0.907)	360146	0.93046	494.93

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i
Lab File ID: LV3LM1D0.D
Lab Smp Id: lv3lm1d0
Analysis Type: SV
Quant Type: ISTD
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\8270C-625.m
Misc Info:

Calibration Date: 09-MAR-2010
Calibration Time: 09:30
Client Smp ID: F16SS-027M-5432-SO
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	341152	170576	682304	340961	-0.06
2 Naphthalene-d8	1446738	723369	2893476	1439835	-0.48
3 Acenaphthene-d10	804562	402281	1609124	865829	7.61
4 Phenanthrene-d10	1309544	654772	2619088	1443663	10.24
5 Chrysene-d12	1499707	749854	2999414	1680166	12.03
6 Perylene-d12	1385210	692605	2770420	1617601	16.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.51	3.01	4.01	3.53	0.31
2 Naphthalene-d8	4.41	3.91	4.91	4.41	0.12
3 Acenaphthene-d10	5.68	5.18	6.18	5.68	0.00
4 Phenanthrene-d10	6.76	6.26	7.26	6.76	0.00
5 Chrysene-d12	8.72	8.22	9.22	8.72	0.00
6 Perylene-d12	10.16	9.66	10.66	10.17	0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\00309a.b\LV3LM1D0.D

Page 1

Date : 09-MAR-2010 15:16

Client ID: F16SS-027M-5432-SO

Instrument: a4hp7.i

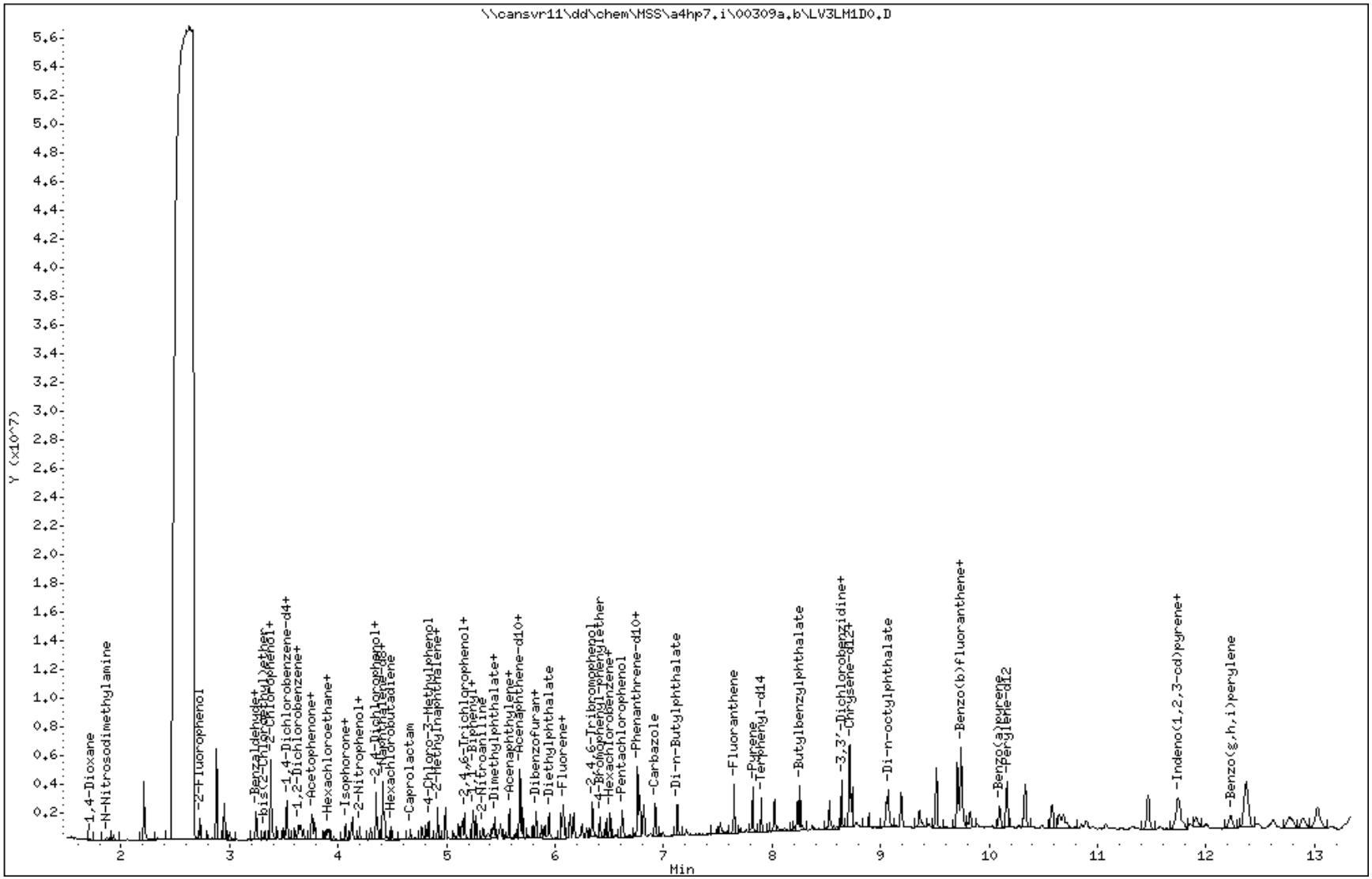
Sample Info: lv3lm1d0,00309a.b,8270c-625,1-827042d.sub

Volume Injected (uL): 0.5

Operator: 001710

Column phase: db5.625

Column diameter: 0.32



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

Method 8270C 625 | IS#: SV3548 | Date: 05-MAR-2010 10:06
MeCL2 Lot#: H50J00 | Operator: 001710
GC Program #: 2

Data File	Client ID-STD #	Sample ID	DF	Prep	Init	Unit	Fin mL	Comments	QUAL
7DF0305.D	SV3549							DFTPP 3/7/10	OK
7DF0305T.D	SV3549							DFTPP	OK
7SMM0305.D	SV3584							CALIB_5	OK
7SM0305.D	SV3583							CALIB_4	OK
7SML0305.D	SV3582							CALIB_3	OK
7SL0305.D	SV3581							CALIB_2	OK
7SLL0305.D	SV3580							CALIB_1	OK
7SHHH0305.D	SV3588							CALIB_9	OK
7SHH0305.D	SV3587							CALIB_8	OK
7SH0305.D	SV3586							CALIB_7	OK
7SMH0305.D	SV3585							CALIB_6	OK
ICVTCL.D	SV3589							CCALIB_6	OK

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GC/MS SEMIVOLATILES INJECTION LOG Instr. a4hp7.i

Method 8270C 625 | IS#: SV3548 | Date: 08-MAR-2010 09:57

MeCL2 Lot#: H50J00 | Operator: 001710

GC Program #: 2

OK mw 3/9/10

Data File	Client ID-STD #	Sample ID	DF	Prep	Init	Unit	Fin mL	Comments	QUAL	
7DF0308.D	SV3549							DFTPP	OK	
7DF0308T.D	SV3549							DFTPP	OK	
7SMH0308.D	SV3585							CCALIB_6	OK	
QCMRLCK.D	SV3584							mrl	OK	
LV9K31AA.D	INTRA-LAB BLANK		5f	03/04	1000	mL	2	METHOD BLANK	OK	
LV9K31AC.D	INTRA-LAB CHECK			03/04	1000	mL	2	METHOD SPIKE	OK	
LWA001AA.D	INTRA-LAB BLANK			03/05	1000	mL	2	METHOD BLANK	OK	
LWA001AC.D	INTRA-LAB CHECK			03/05	1000	mL	2	METHOD SPIKE	OK	
LWA0X1AA.D	INTRA-LAB BLANK			03/05	1000	mL	2	METHOD BLANK	OK	
LWA0X1AC.D	INTRA-LAB CHECK			03/05	1000	mL	2	METHOD SPIKE	OK	
LWA0X1AD.D	INTRA-LAB CHECK			03/05	1000	mL	2	METHOD SPIKE	OK	
LV3LM1DQ.D	F16SS-027M-5432-SO	A0B250463	25:100	03/01	30	g	2	SAMPLE	OK	
LV3LM1DX.D	F16SS-027M-5432-SO	A0B250463	25:100	03/01	30	g	2	MS	OK	
LV3LM1D0.D	F16SS-027M-5432-SO	A0B250463	25:100	03/01	30	g	2	MSD	rem	IS↓
LV3LA1AG.D	F15SS-035M-5428-SO	A0B250463	25:100	03/01	30	g	2	SAMPLE	OK	
LV3LC1AP.D	F15SS-035M-6121-FD	A0B250463	25:100	03/01	30	g	2	SAMPLE	OK	
LV3LH1AC.D	F15SS-038M-5430-SO	A0B250463	25:100	03/01	30	g	2	SAMPLE	OK	
LV3K91A5.D	F15SS-036M-5427-SO	A0B250463	50:100	03/01	30	g	2	SAMPLE	OK	
LV3LR1AC.D	F16SS-028M-5433-SO	A0B250463	5f	03/01	30	g	2	SAMPLE	ok Rpt	
LV3LE1AX.D	F15SS-037M-5429-SO	A0B250463		03/01	30	g	2	SAMPLE	OK	
LV41V1A5.D	LL6SB-083-5233-SO	A0B260454		03/01	30	g	2	SAMPLE	OK	
LV4121AG.D	LL6SB-083-5234-SO	A0B260454		03/01	30	g	2	SAMPLE	OK	
LV4141AN.D	LL6SB-083-5235-SO	A0B260454		03/01	30	g	2	SAMPLE	rem	IS ↓
QCMRLCL.D	SV3584							mrl	OK	
MDLL1.D	SV3580	SDGa00278			30	g	2	SAMPLE	DNR	
MDLL2.D	SV3581	SDGa00278			30	g	2	SAMPLE	DNR	

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4hp7.i

Method 8270C 625 IS#: SV3548 Date: 08-MAR-2010 09:57

MeCL2 Lot#: H50J00 Operator: 001710

GC Program #: 2

Data File	Client ID-STD #	Sample ID	DF	Prep	Init	Unit	Fin mL	Comments	QUAL
MDLL3.D	SV3582	SDGa00278			30	g	2	SAMPLE	DNR
LV9K31AD.D	INTRA-LAB CHECK		SI	03/04	1000	mL	2	METHOD SPIKE	OK
LV9T71AA.D	10C0165-01	A0C040427		03/05	1000	mL	2	SAMPLE	OK
LWAKF1AA.D	EHMW-1-0310	A0C040529		03/05	1000	mL	2	SAMPLE	OK
LWAKQ1AA.D	EHMW-8-0310	A0C040529		03/05	1050	mL	2	SAMPLE	OK
LWAKR1AA.D	EHMW-6-0310	A0C040529		03/05	1050	mL	2	SAMPLE	OK
LWAKV1AA.D	EHMW-7-0310	A0C040529		03/05	1040	mL	2	SAMPLE	OK
LWAKX1AA.D	EHPW-5-0310	A0C040529		03/05	1040	mL	2	SAMPLE	OK
LWAK31AA.D	EHPW-6-0310	A0C040529		03/05	1050	mL	2	SAMPLE	OK
LWAK41AA.D	DUMW-10-0310	A0C040529		03/05	1030	mL	2	SAMPLE	OK
LV8281AD.D	MW-39-0	A0C030497	40:100	03/04	1050	mL	2	SAMPLE	OK
LWAK81AA.D	COMB-0310	A0C040532	SI	03/05	1040	mL	2	SAMPLE	OK
LV98A1AA.D	OUTFALL #003	A0C040482		03/05	990	mL	2	SAMPLE	OK
LV98D1AA.D	OUTFALL #003(EXTRAC	A0C040482		03/05	1000	mL	2	SAMPLE	OK
LWAJC1AA.D	001-0316	A0C040522		03/05	1050	mL	2	SAMPLE	OK
LV9261AF.D	W-030310-RR-713-DW	A0C040458		03/05	1050	mL	2	SAMPLE	OK

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4hp7.i

Method 8270C 625 IS#: SV3548 Date: 09-MAR-2010 09:11

MeCL2 Lot#: H50J00 Operator: 001710

GC Program #: 2 Target Batch: 00309a.b

Data File	Client ID-STD #	Sample ID	DF	Prep	Init	Unit	Fin mL	Comments	QUAL
7DF0309.D	SV3549							DFTPP	ok
7DF0309T.D	SV3549							DFTPP	ok
7SMH0309.D	SV3585							CCALIB_6	ok
QCMRLCK.D	SV3584							mrl	ok
LWEWE1AA.D	INTRA-LAB BLANK			03/04	30	g	2	METHOD BLANK	ok
LWEWE1AC.D	INTRA-LAB CHECK			03/04	30	g	2	METHOD SPIKE	ok
LV51K2AF.D	S4(22.5-25)-022610	A0B270425		03/04	30	g	2	SAMPLE	ok
LV9EM1AL.D	LL9SS-107-5485-SO	A0C030547		03/05	30	g	2	SAMPLE	ok
LV9EM1AM.D	LL9SS-107-5485-SO	A0C030547		03/05	30	g	2	MS	ok
LV9EM1AN.D	LL9SS-107-5485-SO	A0C030547		03/05	30	g	2	MSD	ok
LV9D71AE.D	LL9SS-096-5474-SO	A0C030547		03/05	30	g	2	SAMPLE	ok
LV9D81AE.D	LL9SS-096-6149-FD	A0C030547		03/05	30	g	2	SAMPLE	ok
LV9D91AE.D	LL9SS-097-5475-SO	A0C030547		03/05	30	g	2	SAMPLE	ok
LV9EC1AE.D	LL9SS-099-5477-SO	A0C030547		03/05	30	g	2	SAMPLE	ok
LV9EG1AE.D	LL9SS-103-5481-SO	A0C030547		03/05	30	g	2	SAMPLE	ok
LV9EF1AE.D	LL9SS-102-5480-SO	A0C030547		03/05	30	g	2	SAMPLE	ok next
LV9EN1AE.D	LL9SS-108-5486-SO	A0C030547		03/05	30	g	2	SAMPLE	ok
LV9EQ1AE.D	LL9SS-110-5488-SO	A0C030547		03/05	30	g	2	SAMPLE	ok
LV9EL1AE.D	LL9SS-106-5484-SO	A0C030547		03/05	30	g	2	SAMPLE	ok
LV9EK1AE.D	LL9SS-105-5483-SO	A0C030547		03/05	30	g	2	SAMPLE	ok next
LV3LM1D0.D	F16SS-027M-5432-SO	A0B250463		03/01	30	g	2	MSD	ok
LV4141AN.D	LL6SB-083-5235-SO	A0B260454		03/01	30	g	2	SAMPLE	ok
QCMRLCL.D	SV3584							mrl	ok
MDLL1.D	SV3580	SDGa00278			30	g	2	SAMPLE	DNR
MDLL2.D	SV3581	SDGa00278			30	g	2	SAMPLE	DNR
MDLL3.D	SV3582	SDGa00278			30	g	2	SAMPLE	DNR

TestAmerica - North Canton

GC/MS SEMIVOLATILES INJECTION LOG Instr. a4hp7.i

Method 8270C 625 | IS#: SV3548 | Date: 12-MAR-2010 09:10

MeCL2 Lot#: H50500 | Operator: 001710

GC Program #: 2 | Target Batch: 00312a.b

Data File	Client ID-STD #	Sample ID	DF	Prep	Init	Unit	Fin mL	Comments	QUAL	
7DF0312.D	SV3549							DFTPP	OK	
7DF0312T.D	SV3549							DFTPP	ok	
7SMH0312.D	SV3585							CCALIB_6	OK	
QCMRLCK.D	SV3584							mrl	OK	
LV6AW1AA.D	INTRA-LAB BLANK			03/01	30	g	2	METHOD BLANK	OK rext	1 ACID SS ↓
LV6AW1AC.D	INTRA-LAB CHECK			03/01	30	g	2	METHOD SPIKE	OK	
LV9KR1AA.D	INTRA-LAB BLANK			03/05	30	g	2	METHOD BLANK	OK	
LV9KR1AC.D	INTRA-LAB CHECK			03/05	30	g	2	METHOD SPIKE	OK	
LV3LJ1AC.D	F16SS-026M-5431-SO	A0B250463		03/01	30	g	2	SAMPLE	OK	rext
LV3KQ1AD.D	ATASB-008-5133-SO	A0B250463		03/01	30	g	2	SAMPLE	OK	rext
LV3KR1AP.D	ATASB-008-5134-SO	A0B250463		03/01	30	g	2	SAMPLE	OK	rext
LV9EA1AP.D	LL9SS-098-5476-SO	A0C030547		03/05	30	g	2	SAMPLE	OK	
LV9EH1AP.D	LL9SS-104-5482-SO	A0C030547		03/05	30	g	2	SAMPLE	OK	
LV9EJ1AP.D	LL9SS-104-6151-FD	A0C030547		03/05	30	g	2	SAMPLE	OK	
LV42P1AD.D	NTASD-145-5345-SD	A0B260454		03/01	30	g	2	SAMPLE	OK	rext
LV42V1AD.D	LL11SD-082-5593-SD	A0B260454		03/01	30	g	2	SAMPLE	OK	rext
LV42W1AD.D	LL11SD-083-5594-SD	A0B260454		03/01	30	g	2	SAMPLE	OK	rext
LV4211AL.D	LL11SD-084-5595-SD	A0B260454		03/01	30	g	2	SAMPLE	OK	rext
LV43E1AD.D	FWSSD-101-5009-SD	A0B260454		03/01	30	g	2	SAMPLE	OK	rext
LV41M1AD.D	LL6SB-069-5219-SO	A0B260454		03/01	30	g	2	SAMPLE	OK	rext
LV41R1AP.D	LL6SB-069-5220-SO	A0B260454		03/01	30	g	2	SAMPLE	OK	rext
QCMRLCL.D	SV3584							mrl	fail	
MDLL1.D	SV3580							mrl	OK	
MDLL2.D	SV3581							mrl	OK	
MDLL3.D	SV3582							mrl	fail	no Benzoic Acid

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/24/2010
Time: 11:07:27

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct &
			_	_	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 401204 Michele Arteno

Concentrationist: 401204 Michele Arteno

Reviewer/Date: ARTENOM / 3/02/10

QC BATCH: 0060040

PREP DATE: 3/01/10
COMP DATE: 3/02/10

Base/Neutrals and Acids (8270C)
SOXHLET (NONE,Na2SO4)
SW846 3540C

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/18/10	A0B250463-017 **LV3LH-1-AC**	D	11	QL	SOLID	30.01g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	3/18/10	A0B250463-018 **LV3LJ-1-AC**	D	11	QL	SOLID	30.05g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	3/18/10	A0B250463-020 **LV3LM-1-D0 D**	D	11	QL	SOLID	30.08g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML #A070638/72456 .2ML BNA SURR #69831
COMMENTS:															
3/10/10	3/18/10	A0B250463-014 **LV3LA-1-AG**	D	11	QL	SOLID	30.01g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	3/18/10	A0B250463-015 **LV3LC-1-AP**	D	11	QL	SOLID	30.11g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															

831

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0060040

PREP DATE: 3/01/10
COMP DATE: 3/02/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/18/10	A0B250463-016 **LV3LE-1-AX**	D	11	QL	SOLID	30.08g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	3/18/10	A0B250463-013 **LV3K9-1-A5**	D	11	QL	SOLID	30.09g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	3/18/10	A0B250463-020 **LV3LM-1-DQ**	D	11	QL	SOLID	30.1g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	3/18/10	A0B250463-020 **LV3LM-1-DX S**	D	11	QL	SOLID	30.1g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML #A070638/72456 .2ML BNA SURR #69831
COMMENTS:															
3/10/10	3/18/10	A0B250463-021 **LV3LR-1-AC**	D	11	QL	SOLID	30.03g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	3/18/10	A0B250463-004 **LV3KQ-1-AD**	D	11	QL	SOLID	30.08g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	3/18/10	A0B250463-005 **LV3KR-1-AP**	D	11	QL	SOLID	30.04g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/11/10	3/19/10	A0B260454-016 **LV43E-1-AD**	D	11	QL	SOLID	30.04g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:	DECANT														
3/11/10	3/19/10	A0B260454-008 **LV42P-1-AD**	D	11	QL	SOLID	30.11g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0060040

PREP DATE: 3/01/10
COMP DATE: 3/02/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/19/10	A0B260454-009 **LV42V-1-AD**	D	11	QL	SOLID	30.16g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:	DECANT														
3/11/10	3/19/10	A0B260454-010 **LV42W-1-AD**	D	11	QL	SOLID	30.04g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:	WET														
3/11/10	3/19/10	A0B260454-002 **LV41R-1-AP**	D	11	QL	SOLID	30.06g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/11/10	3/19/10	A0B260454-003 **LV41V-1-A5**	D	11	QL	SOLID	30.11g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/11/10	3/19/10	A0B260454-011 **LV421-1-AL**	D	11	QL	SOLID	30.06g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/11/10	3/19/10	A0B260454-004 **LV412-1-AG**	D	11	QL	SOLID	30.13g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/10/10	0/0/0	A0C010000-040 **LV6AW-1-AC C**		11	QL	SOLID	30.00g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML #A070638/72456 .2ML BNA SURR #69831
COMMENTS:															
3/11/10	3/19/10	A0B260454-005 **LV414-1-AN**	D	11	QL	SOLID	30.18g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															
3/11/10	3/19/10	A0B260454-001 **LV41M-1-AD**	D	11	QL	SOLID	30.01g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831
COMMENTS:															

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North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0060040

PREP DATE: 3/01/10
COMP DATE: 3/02/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	0/0/0	A0C010000-040 **LV6AW-1-AA B**		11	QL	SOLID	30.00g 2.00mL	0.0	NA	NA	DCM/ACE	200.0		0.0	.2ML BNA SURR #69831

COMMENTS:

S&S BY MMA

DCM/ACE #J03E07 NA2S04 #H35594 BALANCE #B025

NUMBER OF WORK ORDERS IN BATCH: 24

834

Lot/SDG Number: **A0B250463**

Sample Control Chain of Custody - TAL North Canton
GC/MS Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0B250463-004	LV3KQ1AD	Base/Neutrals and Acids (8270C)	03/01/10	Michele Arteno	03/02/10	Michele Arteno	03/12/10	John Gruber
A0B250463-004	LV3KQ2AD	Base/Neutrals and Acids (8270C)	03/15/10	Leslie Howell	03/16/10	Steve Earle	03/19/10	Thomas Hula
A0B250463-005	LV3KR1AP	Base/Neutrals and Acids (8270C)	03/01/10	Michele Arteno	03/02/10	Michele Arteno	03/12/10	John Gruber
A0B250463-005	LV3KR2AP	Base/Neutrals and Acids (8270C)	03/15/10	Leslie Howell	03/16/10	Steve Earle	03/19/10	Thomas Hula
A0B250463-013	LV3K91A5	Base/Neutrals and Acids (8270C)	03/01/10	Michele Arteno	03/02/10	Michele Arteno	03/08/10	John Gruber
A0B250463-014	LV3LA1AG	Base/Neutrals and Acids (8270C)	03/01/10	Michele Arteno	03/02/10	Michele Arteno	03/08/10	John Gruber
A0B250463-015	LV3LC1AP	Base/Neutrals and Acids (8270C)	03/01/10	Michele Arteno	03/02/10	Michele Arteno	03/08/10	John Gruber
A0B250463-016	LV3LE1AX	Base/Neutrals and Acids (8270C)	03/01/10	Michele Arteno	03/02/10	Michele Arteno	03/08/10	John Gruber
A0B250463-017	LV3LH1AC	Base/Neutrals and Acids (8270C)	03/01/10	Michele Arteno	03/02/10	Michele Arteno	03/08/10	John Gruber
A0B250463-018	LV3LJ1AC	Base/Neutrals and Acids (8270C)	03/01/10	Michele Arteno	03/02/10	Michele Arteno	03/12/10	John Gruber
A0B250463-018	LV3LJ2AC	Base/Neutrals and Acids (8270C)	03/15/10	Leslie Howell	03/16/10	Steve Earle	03/19/10	Thomas Hula
A0B250463-020	LV3LM1DQ	Base/Neutrals and Acids (8270C)	03/01/10	Michele Arteno	03/02/10	Michele Arteno	03/08/10	John Gruber
A0B250463-021	LV3LR1AC	Base/Neutrals and Acids (8270C)	03/01/10	Michele Arteno	03/02/10	Michele Arteno	03/08/10	John Gruber
A0B250463-021	LV3LR2AC	Base/Neutrals and Acids (8270C)	03/10/10	Michele Arteno	03/11/10	Leslie Howell	03/12/10	Thomas Hula

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PESTICIDE DATA

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QC SUMMARY DATA

SW846 8081A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B250463

Extraction: XXA11QJWA

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	ATASB-008-5133-SO	99	118	00
02	ATASB-008-5134-SO	92	96	00
03	F16SS-026M-5431-SO	86 D	150D	01
04	METHOD BLK. LV6AP1AA	89	98	00
05	LCS LV6AP1AC	83	93	00
06	ATASB-008-5133-SO D	90	91	00
07	ATASB-008-5133-SO S	83	101	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(70-125)
SRG02	= Decachlorobiphenyl	(55-130)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6AP1AC
BATCH: 0060035

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	33	31	92	60- 125	
Heptachlor	33	30	90	50- 140	
Aldrin	33	30	89	45- 140	
Dieldrin	33	32	95	65- 125	
Endrin	33	32	96	60- 135	
4,4'-DDT	33	30	89	45- 140	
alpha-BHC	33	30	90	60- 125	
beta-BHC	33	30	90	60- 125	
delta-BHC	33	30	91	55- 130	
Heptachlor epoxide	33	30	91	65- 130	
Endosulfan I	33	26	79	15- 135	
4,4'-DDE	33	32	95	70- 125	
Endosulfan II	33	28	84	35- 140	
4,4'-DDD	33	33	99	30- 135	
Endosulfan sulfate	33	31	94	60- 135	
Methoxychlor	33	29	89	55- 145	
Endrin ketone	33	30	89	65- 135	
Endrin aldehyde	33	25	76	35- 145	
alpha-Chlordane	33	31	92	65- 120	
gamma-Chlordane	33	31	94	65- 125	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: ATASB-008-5133-SO

Lot #: A0B250463 WO #: LV3KQ1CC
BATCH: 0060035

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
gamma-BHC (Lindane)	38	ND	32	85	60- 125	
Heptachlor	38	ND	31	83	50- 140	
Aldrin	38	ND	29	76	45- 140	
Dieldrin	38	ND	35	93	65- 125	
Endrin	38	ND	33	89	60- 135	
4,4'-DDT	38	ND	34	90	45- 140	
alpha-BHC	38	ND	33	89	60- 125	
beta-BHC	38	ND	32	86	60- 125	
delta-BHC	38	ND	28	75	55- 130	
Heptachlor epoxide	38	ND	34	89	65- 130	
Endosulfan I	38	ND	28	75	15- 135	
4,4'-DDE	38	ND	35	93	70- 125	
Endosulfan II	38	ND	32	84	35- 140	
4,4'-DDD	38	ND	38	100	30- 135	
Endosulfan sulfate	38	ND	36	95	60- 135	
Methoxychlor	38	ND	37	97	55- 145	
Endrin ketone	38	ND	33	89	65- 135	
Endrin aldehyde	38	ND	26	69	35- 145	
alpha-Chlordane	38	ND	30	80	65- 120	
gamma-Chlordane	38	ND	34	90	65- 125	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: ATASB-008-5133-SO

Lot #: A0B250463 WO #: LV3KQ1CD
BATCH: 0060035

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	38	31	83	2.3		36	60- 125	
Heptachlor	38	30	79	4.9		44	50- 140	
Aldrin	38	29	78	2.0		40	45- 140	
Dieldrin	38	33	87	6.3		33	65- 125	
Endrin	38	30	81	9.8		38	60- 135	
4,4'-DDT	38	34	89	0.53		42	45- 140	
alpha-BHC	38	32	86	3.2		40	60- 125	
beta-BHC	38	31	81	5.9		43	60- 125	
delta-BHC	38	27	72	3.4		34	55- 130	
Heptachlor epoxide	38	32	85	4.7		43	65- 130	
Endosulfan I	38	26	70	6.1		41	15- 135	
4,4'-DDE	38	32	85	8.9		39	70- 125	
Endosulfan II	38	33	87	4.2		27	35- 140	
4,4'-DDD	38	30	79	24		35	30- 135	
Endosulfan sulfate	38	30	79	18		34	60- 135	
Methoxychlor	38	32	86	12		41	55- 145	
Endrin ketone	38	30	80	11		32	65- 135	
Endrin aldehyde	38	23	62	11		29	35- 145	
alpha-Chlordane	38	28	75	6.2		65	65- 120	
gamma-Chlordane	38	32	86	4.4		36	65- 125	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV6AP1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: 037F3701.

Lot Number: A0B250463

Matrix: SOLID

Extraction Method: 3540C

Date Extracted: 03/02/10

Date Analyzed(1): 03/15/10

Date Analyzed(2): N/A

Time Analyzed(1): 23:04

Time Analyzed(2): N/A

Instrument ID(1): P9

Instrument ID(2): N/A

GC Column(1): RTXPESTCLP ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	ATASB-008-5133-SO	LV3KQ1AE	03/11/10	N/A
02	ATASB-008-5133-SO	LV3KQ1CC S	03/11/10	N/A
03	ATASB-008-5133-SO	LV3KQ1CD D	03/15/10	N/A
04	ATASB-008-5134-SO	LV3KR1AQ	03/15/10	N/A
05	F16SS-026M-5431-SO	LV3LJ1AD	03/15/10	N/A
06	CHECK SAMPLE	LV6AP1AC C	03/15/10	N/A
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

TestAmerica
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SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

GC Semivolatiles

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ1AE **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 03/02/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0060035
Dilution Factor: 2 **Initial Wgt/Vol:** 30.05 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 11 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	9.0	ug/kg	2.7
alpha-BHC	ND	5.6	ug/kg	1.6
beta-BHC	ND	7.9	ug/kg	2.5
delta-BHC	ND	9.0	ug/kg	2.7
gamma-BHC (Lindane)	ND	5.6	ug/kg	1.7
alpha-Chlordane	ND	6.8	ug/kg	2.1
gamma-Chlordane	ND	3.8	ug/kg	0.95
4,4'-DDD	ND	4.5	ug/kg	1.4
4,4'-DDE	ND	3.8	ug/kg	0.88
4,4'-DDT	ND	4.5	ug/kg	1.4
Dieldrin	ND	3.8	ug/kg	1.1
Endosulfan I	ND	3.8	ug/kg	1.2
Endosulfan II	ND	5.6	ug/kg	1.9
Endosulfan sulfate	ND	6.8	ug/kg	2.0
Endrin	ND	3.8	ug/kg	1.1
Endrin aldehyde	ND	6.8	ug/kg	2.3
Endrin ketone	ND	4.5	ug/kg	1.4
Heptachlor	ND	7.9	ug/kg	2.5
Heptachlor epoxide	ND	5.6	ug/kg	1.8
Methoxychlor	ND	11	ug/kg	3.4
Toxaphene	ND	150	ug/kg	43

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	99	(70 - 125)
Decachlorobiphenyl	118	(55 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Elevated reporting limits. The reporting limits are elevated due to matrix interference.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\037F3701.D
Lab Smp Id: LV3KQ1AE Client Smp ID: ATASB-008-5133-SO
Inj Date : 11-MAR-2010 16:03
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV3KQ1AE,2
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Meth Date : 12-Mar-2010 06:35 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 37
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.050	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.798	3.796	0.002	801692	0.00989	0.1977		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.271	4.262	0.009	123685				
3 Diallate						CAS #: 2303-16-4	
4.346	4.369	-0.023	76233			0.00- 20.00	100.00
4.559	4.544	0.015	67957			0.00- 20.00	89.14
4 alpha-BHC						CAS #: 319-84-6	
4.495	4.498	-0.003	85603	7e-004	0.4445		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.938	4.921	0.017	117603	7e-004	0.4932		
6 beta-BHC						CAS #: 319-85-7	
5.049	5.069	-0.020	96365	0.00248	1.649		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
Peaks not detected for Quant. or Qual. signal(s).							
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
5.363	5.381	-0.018	53017			0.00- 20.00	100.00
0.000	6.325	-6.325	0	0.0000	0.0000	0.00- 20.00	0.00
7.728	7.721	0.007	19164			0.00- 20.00	36.15
0.000	1.000	-1.000	0	0.0000	0.0000	0.00- 20.00	0.00
10 Aldrin					CAS #: 309-00-2		
Peaks not detected for Quant. or Qual. signal(s).							
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.236	8.219	0.017	32794	7e-004	0.4456		
15 Endosulfan I					CAS #: 959-98-8		
8.486	8.475	0.011	41769	0.00090	0.5992		
16 4,4'-DDE					CAS #: 72-55-9		
Peaks not detected for Quant. or Qual. signal(s).							
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							

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18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
19 Kepone					CAS #: 143-50-0		
Peaks not detected for Quant. or Qual. signal(s).							
20 4,4'-DDD					CAS #: 72-54-8		
9.726	9.724	0.002	57693	6.e-004	0.4005		
21 Chlorobenzilate					CAS #: 510-15-6		
9.842	9.844	-0.002	64063				
22 Endosulfan II					CAS #: 33213-65-9		
Peaks not detected for Quant. or Qual. signal(s).							
24 Toxaphene					CAS #: 8001-35-2		
9.972	9.954	0.018	36982	0.02011	13.38	80.00- 120.00	100.00
0.000	10.385	-10.385	0	0.0000	0.0000	114.04- 154.04	0.00
0.000	10.533	-10.533	0	0.0000	0.0000	115.64- 155.64	0.00
11.080	11.097	-0.017	22672	0.00964	6.418	52.78- 92.78	61.31
11.191	11.199	-0.008	7651	0.00342	2.278	69.36- 109.36	20.69
Average of Peak Concentrations =					7.360		
23 4,4'-DDT					CAS #: 50-29-3		
Peaks not detected for Quant. or Qual. signal(s).							
25 Endrin aldehyde					CAS #: 7421-93-4		
10.602	10.587	0.015	10820	3e-004	0.1738		
26 Mirex					CAS #: 2385-85-5		
Peaks not detected for Quant. or Qual. signal(s).							
27 Methoxychlor					CAS #: 72-43-5		
Peaks not detected for Quant. or Qual. signal(s).							
28 Endosulfan sulfate					CAS #: 1031-07-8		
Peaks not detected for Quant. or Qual. signal(s).							
29 Endrin ketone					CAS #: 53494-70-5		
11.671	11.681	-0.010	19706	3e-004	0.2212		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		

```
13.239  13.235    0.004          637353 0.01176   0.2352
--------------------------------------------------------------------------------
```

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\037F3701.D

Date : 11-MAR-2010 16:03

Client ID: ATASB-008-5133-SO

Instrument: a2hp9.i

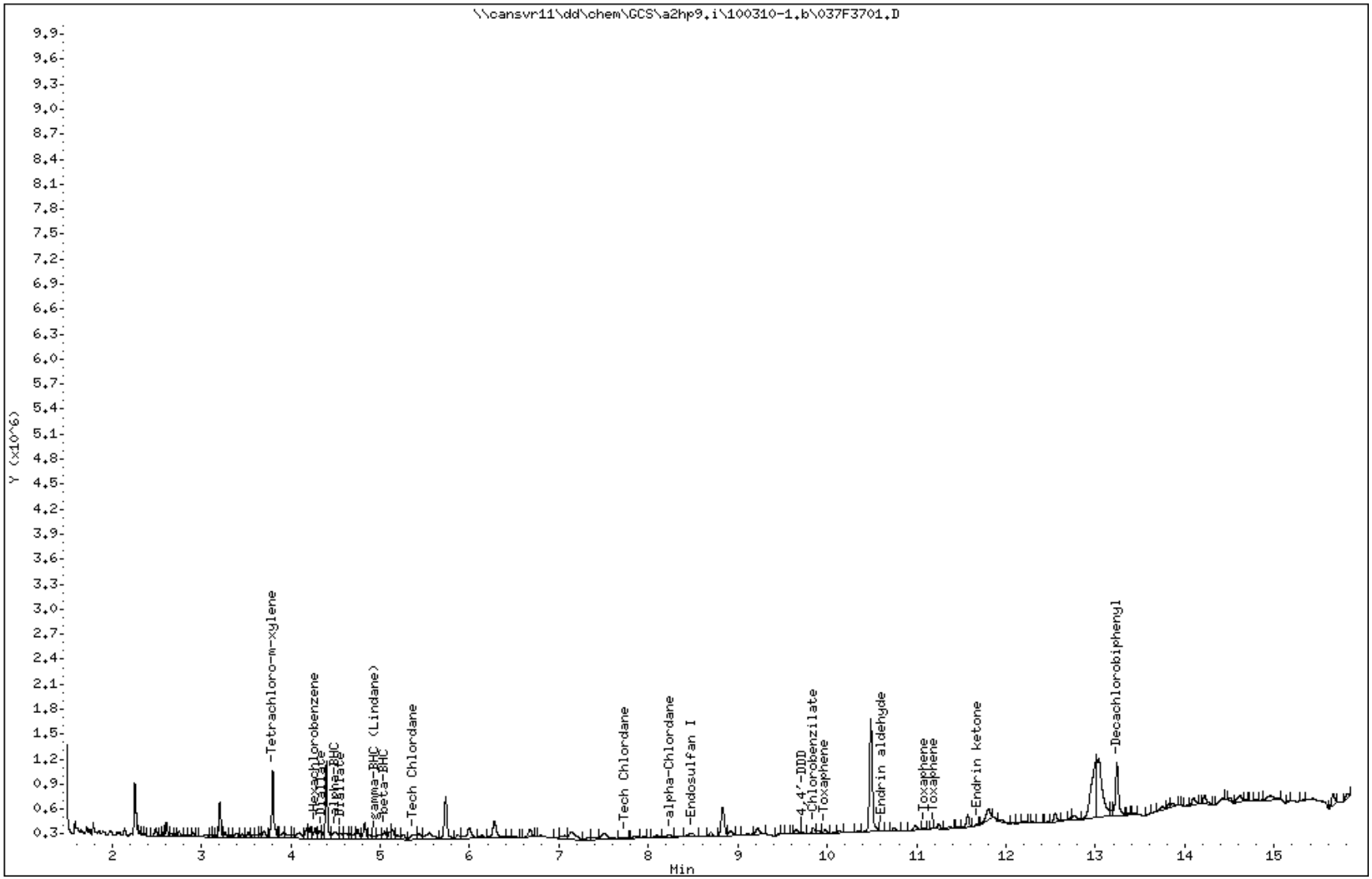
Sample Info: LV3KQ1AE,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 16:03
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/037F3701.D
Lab Sample ID: LV3KQ1AE
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Dilution Factor: 2

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	3.799	1353471	0.010	0.198 ug/Kg
2)	Hexachlorobenzene	4.271	263133	0.000	0.000 ug/Kg
3)	Diallate	4.347	119481	0.000	0.000 ug/Kg
4)	alpha-BHC	4.495	345758	0.001	0.445 ug/Kg
5)	gamma-BHC (Lindane)	4.939	117603	0.001	0.493 ug/Kg
6)	beta-BHC	5.049	256867	0.002	1.649 ug/Kg
7)	delta-BHC	NOT DETECTED	Expected RT = 5.317		
9)	Tech Chlordane	5.364	252414	0.000	0.000 ug/Kg
8)	Heptachlor	NOT DETECTED	Expected RT = 5.642		
10)	Aldrin	NOT DETECTED	Expected RT = 6.169		
11)	Isodrin	NOT DETECTED	Expected RT = 6.872		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 7.606		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 7.907		
14)	alpha-Chlordane	8.236	135209	0.001	0.446 ug/Kg
15)	Endosulfan I	8.487	188774	0.001	0.599 ug/Kg
16)	4,4'-DDE	NOT DETECTED	Expected RT = 8.544		
17)	Dieldrin	NOT DETECTED	Expected RT = 8.987		
18)	Endrin	NOT DETECTED	Expected RT = 9.411		
19)	Kepone	NOT DETECTED	Expected RT = 9.500		
20)	4,4'-DDD	9.727	57693	0.001	0.401 ug/Kg
22)	Endosulfan II	NOT DETECTED	Expected RT = 9.833		
21)	Chlorobenzilate	9.843	160234	0.000	0.000 ug/Kg
24)	Toxaphene	9.973	82758	0.020	13.385 ug/Kg
23)	4,4'-DDT	NOT DETECTED	Expected RT = 10.213		
25)	Endrin aldehyde	10.603	21426	0.000	0.174 ug/Kg
26)	Mirex	NOT DETECTED	Expected RT = 10.813		
27)	Methoxychlor	NOT DETECTED	Expected RT = 11.111		
28)	Endosulfan sulfate	NOT DETECTED	Expected RT = 11.288		
29)	Endrin ketone	11.672	34420	0.000	0.221 ug/Kg
30)	Decachlorobiphenyl	13.239	1523491	0.012	0.235 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\037F3701.D
Lab Smp Id: LV3KQ1AE Client Smp ID: ATASB-008-5133-SO
Inj Date : 11-MAR-2010 16:03
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV3KQ1AE,2
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Meth Date : 12-Mar-2010 06:57 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 37
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.050	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.372	4.371	0.001	483463	0.01021	0.2043		
2 Diallate						CAS #: 2303-16-4	
5.017	5.041	-0.024	54444			0.00- 20.00	100.00
5.208	5.216	-0.008	35118			0.00- 20.00	64.50
3 Hexachlorobenzene						CAS #: 118-74-1	
5.121	5.104	0.017	136448				
4 alpha-BHC						CAS #: 319-84-6	
5.282	5.291	-0.009	92781	9e-004	0.5889		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.924	5.947	-0.023	87251	9e-004	0.6116		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

6 beta-BHC CAS #: 319-85-7

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

6.825	6.808	0.017	115959	0.00126	0.8416		

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

9.106	9.097	0.009	69462	9e-004	0.5839		

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

9.758	9.768	-0.010	19730	3e-004	0.1700		

---

15 Endosulfan I CAS #: 959-98-8

Peaks not detected for Quant. or Qual. signal(s).

---

16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

10.323	10.330	-0.007	23456	3e-004	0.2074		

```
--------------------------------------------------------------------------------
   19 Chlorobenzilate                            CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

--------------------------------------------------------------------------------
   20 Kepone                                     CAS #: 143-50-0
11.066  11.090   -0.024          101679
--------------------------------------------------------------------------------
   18 Endrin                                     CAS #: 72-20-8
10.801  10.831   -0.030           11737  2e-004   0.1193
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
21 4,4'-DDD					CAS #: 72-54-8		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endosulfan II					CAS #: 33213-65-9		
Peaks not detected for Quant. or Qual. signal(s).							
23 Toxaphene					CAS #: 8001-35-2		
0.000	11.338	-11.338	0	0.0000	0.0000	80.00- 120.00	0.00
0.000	11.451	-11.451	0	0.0000	0.0000	114.04- 154.04	0.00
11.771	11.754	0.017	5299	0.00430	2.859	115.64- 155.64	0.00
12.518	12.495	0.023	6576	0.00568	3.780	52.78- 92.78	0.00
12.882	12.870	0.012	36918	0.06224	41.42	69.36- 109.36	0.00
Average of Peak Concentrations =					16.02		
24 4,4'-DDT					CAS #: 50-29-3		
11.620	11.630	-0.010	9320	4e-004	0.2364		
25 Endrin aldehyde					CAS #: 7421-93-4		
Peaks not detected for Quant. or Qual. signal(s).							
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.155	12.160	-0.005	18540	7e-004	0.4507		
28 Mirex					CAS #: 2385-85-5		
Peaks not detected for Quant. or Qual. signal(s).							
27 Methoxychlor					CAS #: 72-43-5		
Peaks not detected for Quant. or Qual. signal(s).							
29 Endrin ketone					CAS #: 53494-70-5		
12.882	12.898	-0.016	67686	0.00101	0.6709		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.653	14.650	0.003	882279	0.01482	0.2965		(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\037F3701.D

Page 1

Date : 11-MAR-2010 16:03

Client ID: ATASB-008-5133-SO

Instrument: a2hp9.i

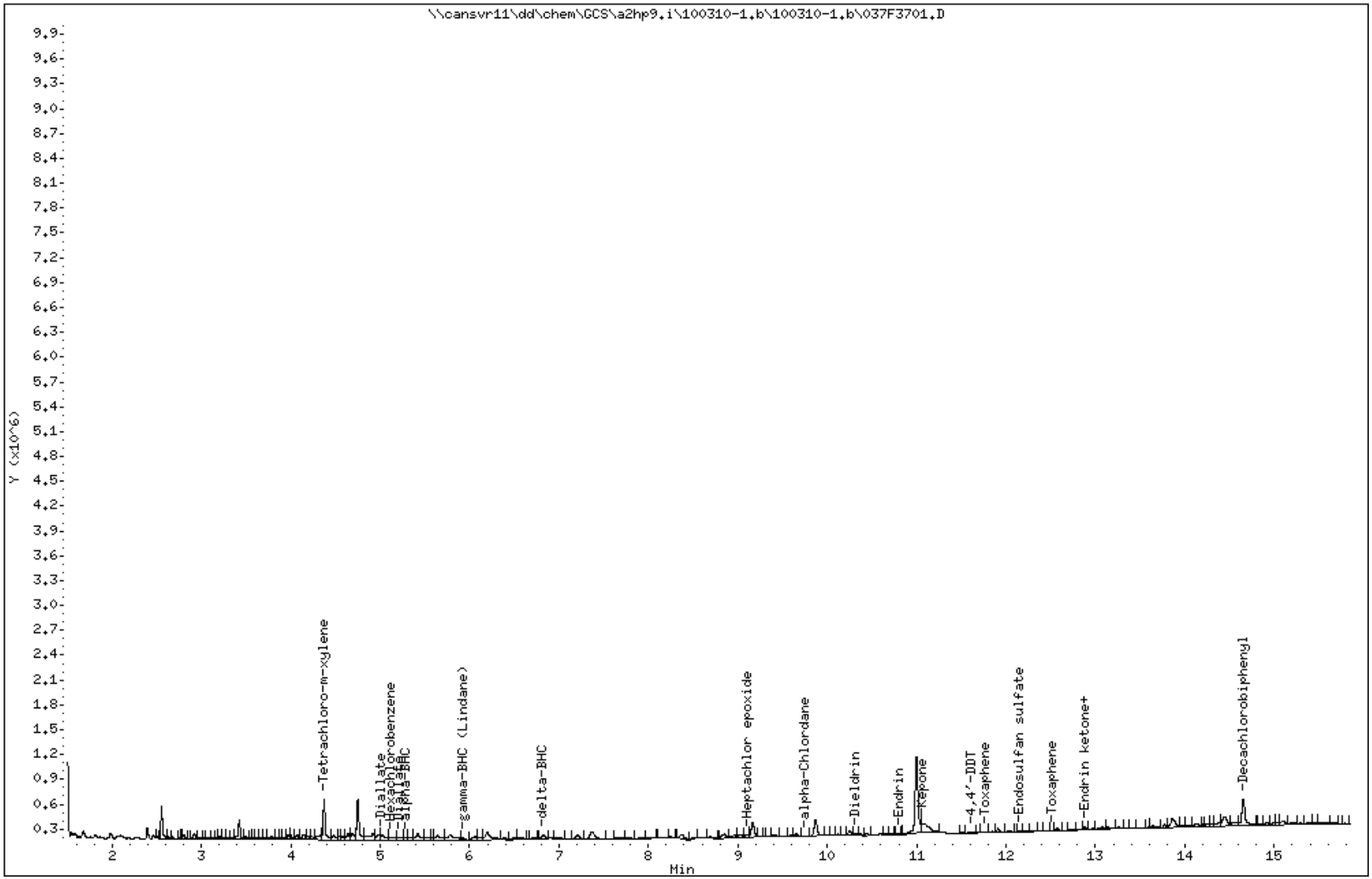
Sample Info: LV3KQ1AE,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 16:03
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/100310-1.b/037F3701.D
Lab Sample ID: LV3KQ1AE
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
23) Toxaphene	0.000	0	0.000	0.000 ug/Kg
1) Tetrachloro-m-xylene	4.373	820609	0.010	0.204 ug/Kg
2) Diallate	5.018	233081	0.000	0.000 ug/Kg
3) Hexachlorobenzene	5.121	136448	0.000	0.000 ug/Kg
4) alpha-BHC	5.283	92781	0.001	0.589 ug/Kg
5) gamma-BHC (Lindane)	5.924	87251	0.001	0.612 ug/Kg
6) beta-BHC	NOT DETECTED	Expected RT = 6.153		
9) Tech Chlordane	NOT DETECTED	Expected RT = 6.399		
7) delta-BHC	6.825	115959	0.001	0.842 ug/Kg
8) Heptachlor	NOT DETECTED	Expected RT = 6.927		
10) Aldrin	NOT DETECTED	Expected RT = 7.752		
11) Isodrin	NOT DETECTED	Expected RT = 8.771		
12) Heptachlor epoxide	9.106	69462	0.001	0.584 ug/Kg
13) gamma-Chlordane	NOT DETECTED	Expected RT = 9.483		
14) alpha-Chlordane	9.759	19730	0.000	0.170 ug/Kg
15) Endosulfan I	NOT DETECTED	Expected RT = 9.832		
16) 4,4'-DDE	NOT DETECTED	Expected RT = 10.175		
17) Dieldrin	10.324	23456	0.000	0.207 ug/Kg
18) Endrin	10.802	11737	0.000	0.119 ug/Kg
19) Chlorobenzilate	NOT DETECTED	Expected RT = 11.042		
20) Kepone	11.067	576414	0.000	0.000 ug/Kg
21) 4,4'-DDD	NOT DETECTED	Expected RT = 11.148		
22) Endosulfan II	NOT DETECTED	Expected RT = 11.192		
24) 4,4'-DDT	11.620	31563	0.000	0.236 ug/Kg
25) Endrin aldehyde	NOT DETECTED	Expected RT = 11.738		
26) Endosulfan sulfate	12.155	31813	0.001	0.451 ug/Kg
27) Methoxychlor	NOT DETECTED	Expected RT = 12.679		
28) Mirex	NOT DETECTED	Expected RT = 12.864		
29) Endrin ketone	12.883	67686	0.001	0.671 ug/Kg
30) Decachlorobiphenyl	14.654	882279	0.015	0.296 ug/Kg

Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

GC Semivolatiles

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR1AQ **Matrix.....:** SO
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
Prep Date.....: 03/02/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0060035
Dilution Factor: 1 **Initial Wgt/Vol:** 30.03 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 4.8 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	4.2	ug/kg	1.3
alpha-BHC	ND	2.6	ug/kg	0.77
beta-BHC	ND	3.7	ug/kg	1.2
delta-BHC	ND	4.2	ug/kg	1.3
gamma-BHC (Lindane)	ND	2.6	ug/kg	0.78
alpha-Chlordane	ND	3.2	ug/kg	0.99
gamma-Chlordane	ND	1.8	ug/kg	0.44
4,4'-DDD	ND	2.1	ug/kg	0.65
4,4'-DDE	ND	1.8	ug/kg	0.41
4,4'-DDT	ND	2.1	ug/kg	0.66
Dieldrin	ND	1.8	ug/kg	0.49
Endosulfan I	ND	1.8	ug/kg	0.55
Endosulfan II	ND	2.6	ug/kg	0.86
Endosulfan sulfate	ND	3.2	ug/kg	0.91
Endrin	ND	1.8	ug/kg	0.53
Endrin aldehyde	ND	3.2	ug/kg	1.1
Endrin ketone	ND	2.1	ug/kg	0.66
Heptachlor	ND	3.7	ug/kg	1.2
Heptachlor epoxide	ND	2.6	ug/kg	0.84
Methoxychlor	ND	5.3	ug/kg	1.6
Toxaphene	ND	70	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	92	(70 - 125)
Decachlorobiphenyl	96	(55 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\019F1901.D
Lab Smp Id: LV3KR1AQ Client Smp ID: ATASB-008-5134-SO
Inj Date : 15-MAR-2010 15:30
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV3KR1AQ
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 09:26 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.030	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.796	3.794	0.002	1546609	0.01837	0.1837		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.274	4.262	0.012	33917				
3 Diallate						CAS #: 2303-16-4	
4.384	4.369	0.015	635955			0.00- 20.00	100.00
4.558	4.544	0.014	30563			0.00- 20.00	4.81
4 alpha-BHC						CAS #: 319-84-6	
4.484	4.495	-0.011	22727	2e-004	0.05685		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.937	4.918	0.019	12319	7e-005	0.02485		
6 beta-BHC						CAS #: 319-85-7	
5.048	5.065	-0.017	32735	0.00081	0.2696		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

5.651	5.637	0.014	12323	2e-004	0.05212		

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

6.151	6.165	-0.014	37748	2e-004	0.08010		

---

11 Isodrin CAS #: 465-73-6

6.847	6.871	-0.024	36167				

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

8.226	8.214	0.012	32763	6e-004	0.2126		

---

15 Endosulfan I CAS #: 959-98-8

8.474	8.470	0.004	13605	0.00028	0.09337		

---

16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

19 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

20 4,4'-DDD CAS #: 72-54-8

9.733	9.720	0.013	70050	6.e-004	0.1991

---

21 Chlorobenzilate CAS #: 510-15-6

9.845	9.844	0.001	5222

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
22 Endosulfan II					CAS #: 33213-65-9		
Peaks not detected for Quant. or Qual. signal(s).							
24 Toxaphene					CAS #: 8001-35-2		
0.000	9.952	-9.952	0	0.0000	0.0000	80.00- 120.00	0.00
10.406	10.384	0.022	4348	0.00238	0.7922	114.04- 154.04	0.00
10.530	10.531	-0.001	4746	0.00292	0.9735	115.64- 155.64	0.00
0.000	11.094	-11.094	0	0.0000	0.0000	52.78- 92.78	0.00
11.190	11.197	-0.007	26883	0.01279	4.257	69.36- 109.36	0.00
Average of Peak Concentrations =					2.008		
23 4,4'-DDT					CAS #: 50-29-3		
Peaks not detected for Quant. or Qual. signal(s).							
25 Endrin aldehyde					CAS #: 7421-93-4		
Peaks not detected for Quant. or Qual. signal(s).							
26 Mirex					CAS #: 2385-85-5		
Peaks not detected for Quant. or Qual. signal(s).							
27 Methoxychlor					CAS #: 72-43-5		
Peaks not detected for Quant. or Qual. signal(s).							
28 Endosulfan sulfate					CAS #: 1031-07-8		
Peaks not detected for Quant. or Qual. signal(s).							
29 Endrin ketone					CAS #: 53494-70-5		
Peaks not detected for Quant. or Qual. signal(s).							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.235	13.233	0.002	1136285	0.01912	0.1912		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\019F1901.D

Page 1

Date : 15-MAR-2010 15:30

Client ID: ATASB-008-5134-SO

Instrument: a2hp9.i

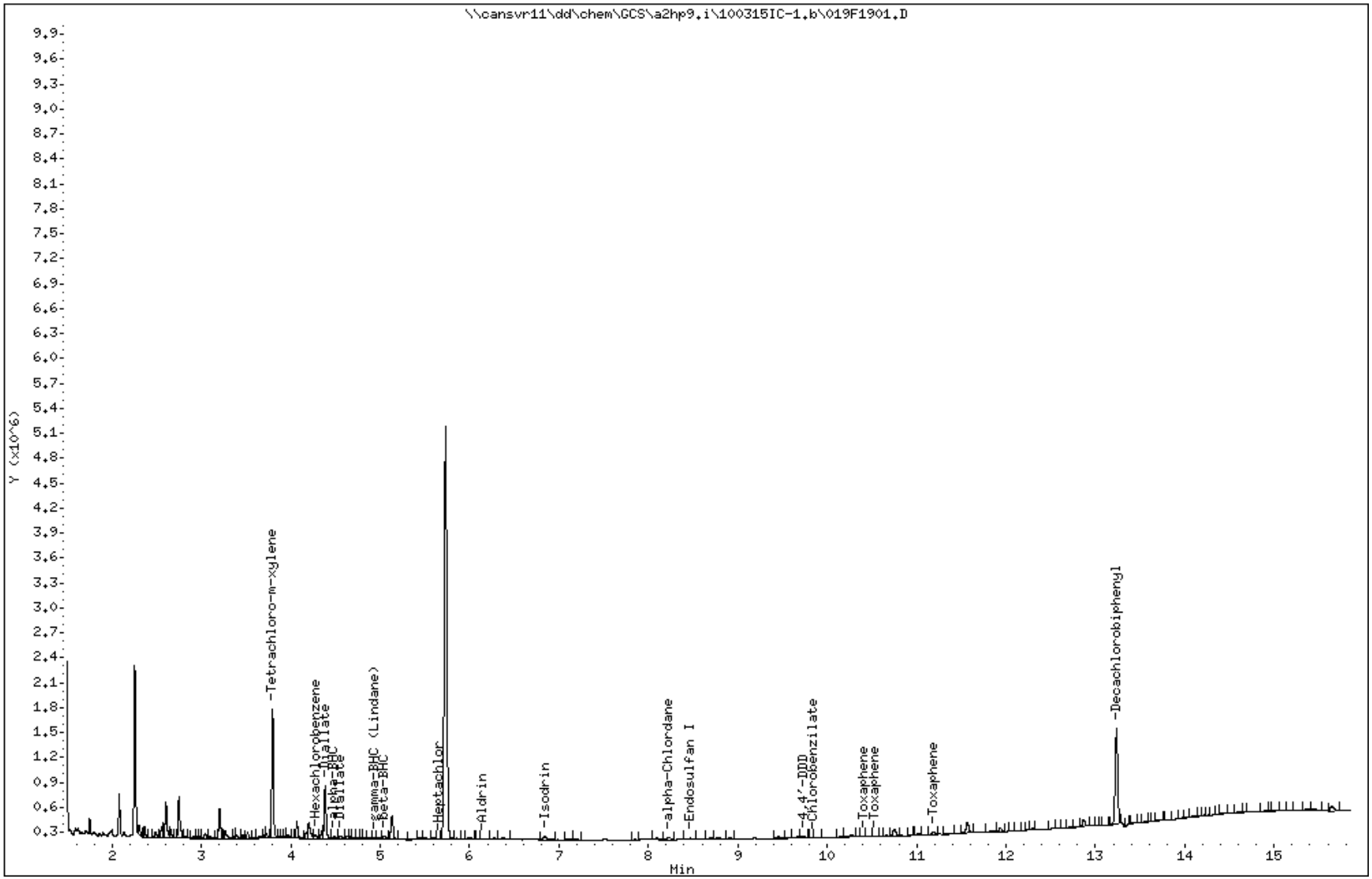
Sample Info: LV3KR1AQ

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

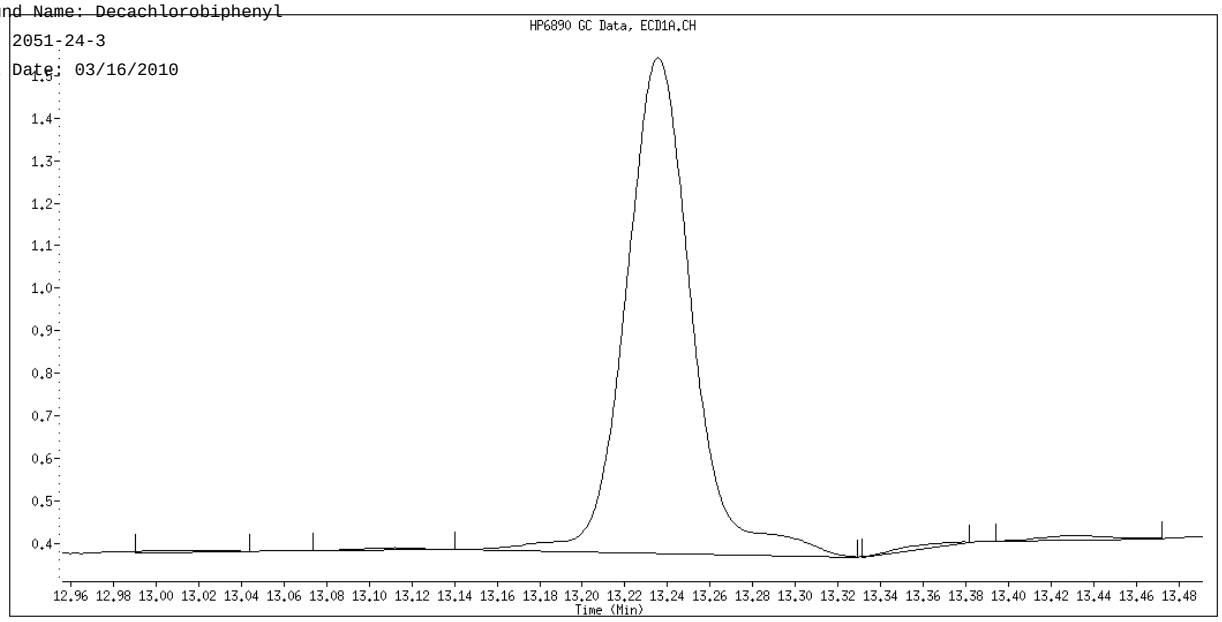


COMPOUNDS and EXP. RT REPORT

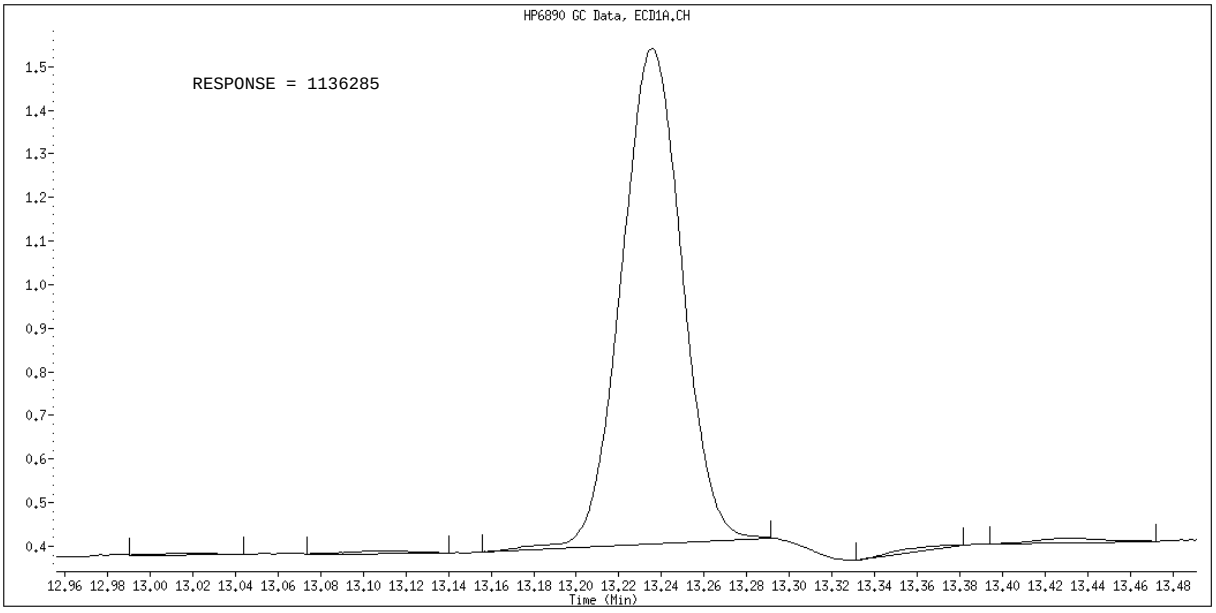
Operator: 093905 Date Acquired: 15-MAR-2010 15:30
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/019F1901.D
Lab Sample ID: LV3KR1AQ
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	0.000	0	0.000	0.000 ug/Kg
1) Tetrachloro-m-xylene	3.797	2031179	0.018	0.184 ug/Kg
2) Hexachlorobenzene	4.274	70534	0.000	0.000 ug/Kg
3) Diallate	4.384	972148	0.000	0.000 ug/Kg
4) alpha-BHC	4.484	73174	0.000	0.057 ug/Kg
5) gamma-BHC (Lindane)	4.938	12319	0.000	0.025 ug/Kg
6) beta-BHC	5.049	78342	0.001	0.270 ug/Kg
7) delta-BHC	NOT DETECTED	Expected RT = 5.314		
9) Tech Chlordane	NOT DETECTED	Expected RT = 5.371		
8) Heptachlor	5.651	30121	0.000	0.052 ug/Kg
10) Aldrin	6.152	37748	0.000	0.080 ug/Kg
11) Isodrin	6.848	117703	0.000	0.000 ug/Kg
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 7.600		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 7.901		
14) alpha-Chlordane	8.227	91640	0.001	0.213 ug/Kg
15) Endosulfan I	8.474	42025	0.000	0.093 ug/Kg
16) 4,4'-DDE	NOT DETECTED	Expected RT = 8.539		
17) Dieldrin	NOT DETECTED	Expected RT = 8.983		
18) Endrin	NOT DETECTED	Expected RT = 9.408		
19) Kepone	NOT DETECTED	Expected RT = 9.500		
20) 4,4'-DDD	9.734	70050	0.001	0.199 ug/Kg
22) Endosulfan II	NOT DETECTED	Expected RT = 9.830		
21) Chlorobenzilate	9.845	9431	0.000	0.000 ug/Kg
23) 4,4'-DDT	NOT DETECTED	Expected RT = 10.212		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 10.584		
26) Mirex	NOT DETECTED	Expected RT = 10.813		
27) Methoxychlor	NOT DETECTED	Expected RT = 11.109		
28) Endosulfan sulfate	NOT DETECTED	Expected RT = 11.285		
29) Endrin ketone	NOT DETECTED	Expected RT = 11.679		
30) Decachlorobiphenyl	13.235	2248044	0.019	0.191 ug/Kg

Data File Name: 019F1901.D
Inj. Date and Time: 15-MAR-2010 15:30
Instrument ID: a2hp9.i
Client ID: ATASB-008-5134-SO
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\019F1901.D
Lab Smp Id: LV3KR1AQ Client Smp ID: ATASB-008-5134-SO
Inj Date : 15-MAR-2010 15:30
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV3KR1AQ
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 09:28 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.030	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.367	0.001	942852	0.01928	0.1928		
2 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene						CAS #: 118-74-1	

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC						CAS #: 319-84-6	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 beta-BHC CAS #: 319-85-7

6.167	6.145	0.022	34903	0.00190	0.6340		

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

Peaks not detected for Quant. or Qual. signal(s).

---

16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

19 Chlorobenzilate CAS #: 510-15-6

11.012	11.042	-0.030	48822				

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Operator disabled compound identification.

---

24 4,4'-DDT CAS #: 50-29-3

11.621	11.623	-0.002	5256	2e-004	0.06881		

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

12.131	12.152	-0.021	5493	2e-004	0.06101		

---

28 Mirex CAS #: 2385-85-5

12.875	12.864	0.011	29994				

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

```
   29 Endrin ketone                              CAS #: 53494-70-5
12.875  12.890   -0.015           55786 8.e-004   0.2668                       (M)
-------------------------------------------------------------------------------
$  30 Decachlorobiphenyl                         CAS #: 2051-24-3
14.645  14.643    0.002         1264682 0.01972   0.1972
-------------------------------------------------------------------------------
```

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\019F1901.D Page 1

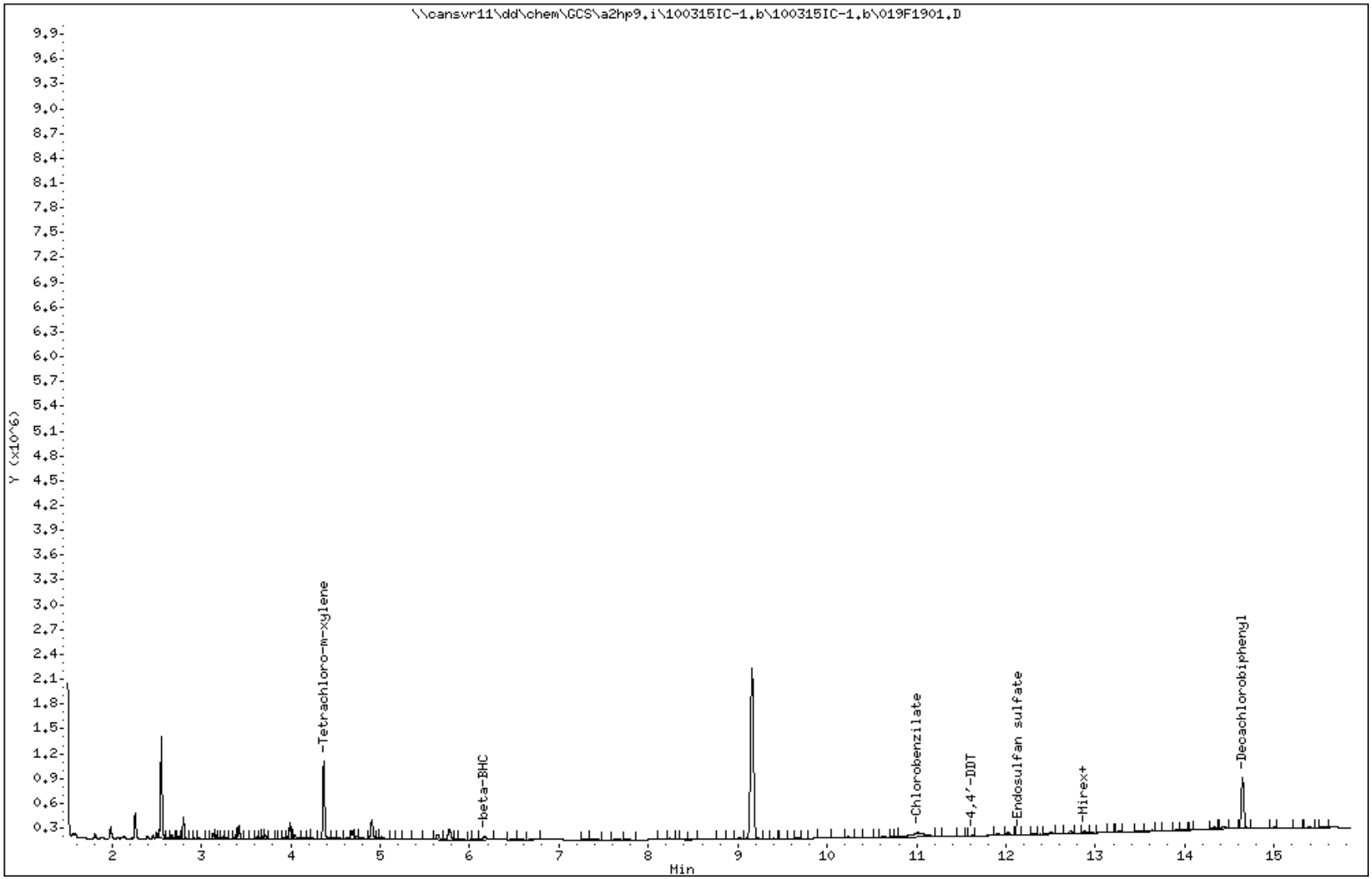
Date : 15-MAR-2010 15:30

Client ID: ATASB-008-5134-SO Instrument: a2hp9.i

Sample Info: LV3KR1AQ

Volume Injected (uL): 1.0 Operator: 093905

Column phase: clp pesticides II Column diameter: 0.53

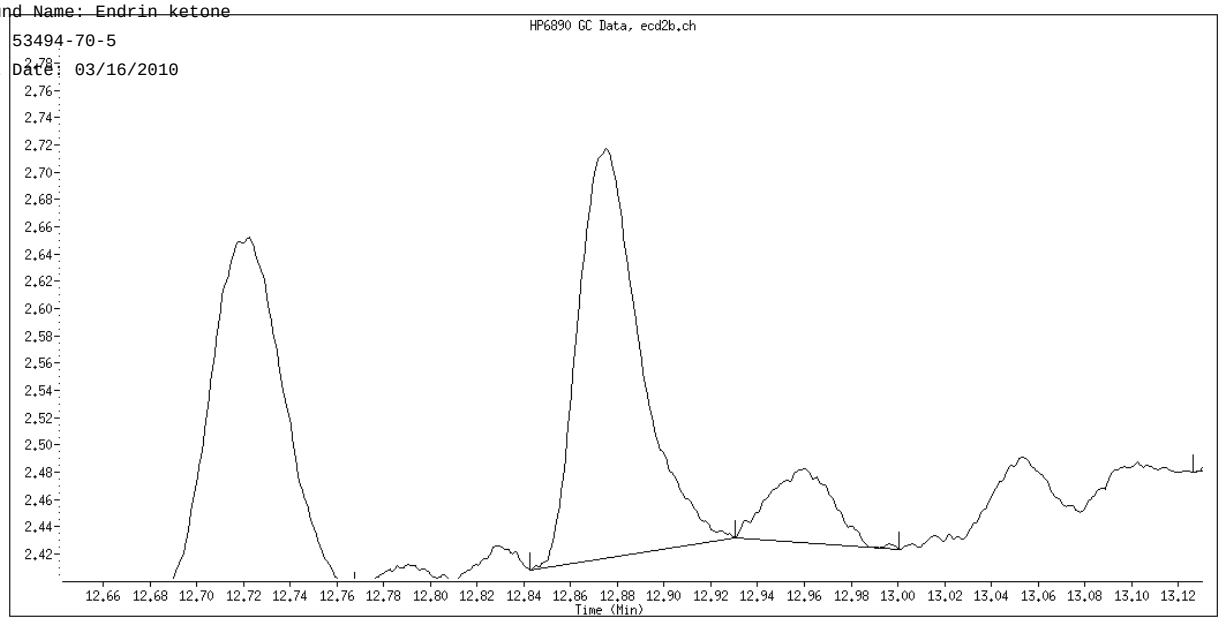


COMPOUNDS and EXP. RT REPORT

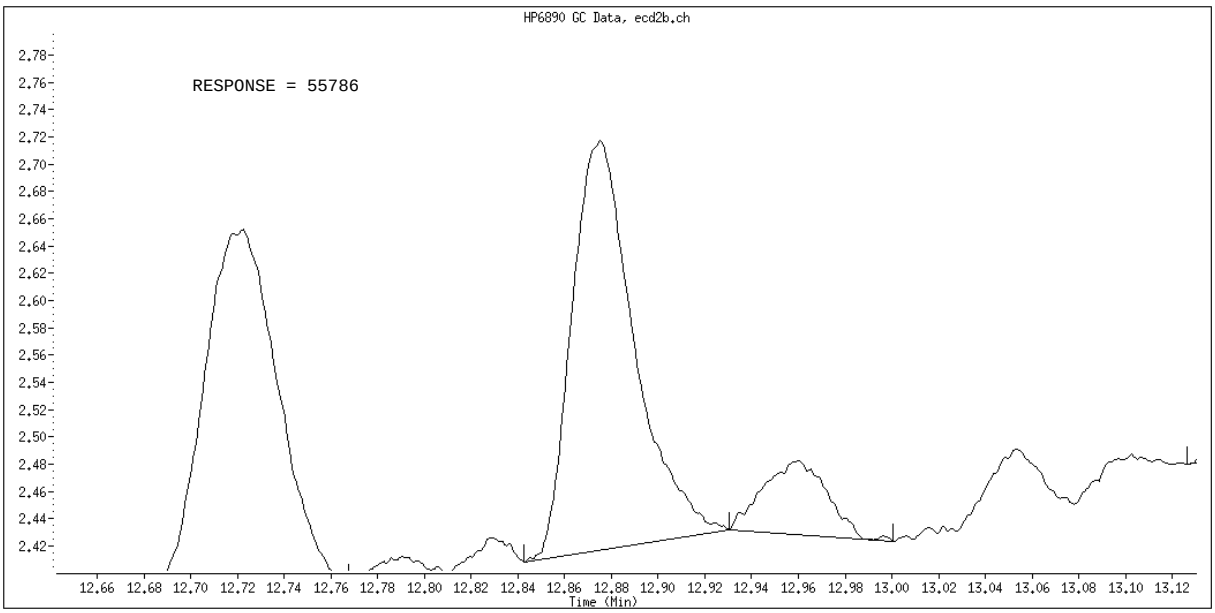
Operator: 093905 Date Acquired: 15-MAR-2010 15:30
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/019F1901.D
Lab Sample ID: LV3KR1AQ
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.369	1340452	0.019	0.193 ug/Kg
2) Diallate	NOT DETECTED	Expected RT = 5.042		
3) Hexachlorobenzene	NOT DETECTED	Expected RT = 5.105		
4) alpha-BHC	NOT DETECTED	Expected RT = 5.285		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 5.939		
6) beta-BHC	6.168	119810	0.002	0.634 ug/Kg
9) Tech Chlordane	NOT DETECTED	Expected RT = 6.391		
7) delta-BHC	NOT DETECTED	Expected RT = 6.799		
8) Heptachlor	NOT DETECTED	Expected RT = 6.917		
10) Aldrin	NOT DETECTED	Expected RT = 7.741		
11) Isodrin	NOT DETECTED	Expected RT = 8.771		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 9.089		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 9.475		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 9.761		
15) Endosulfan I	NOT DETECTED	Expected RT = 9.825		
16) 4,4'-DDE	NOT DETECTED	Expected RT = 10.167		
17) Dieldrin	NOT DETECTED	Expected RT = 10.323		
18) Endrin	NOT DETECTED	Expected RT = 10.823		
19) Chlorobenzilate	11.013	530922	0.000	0.000 ug/Kg
20) Kepone	NOT DETECTED	Expected RT = 11.090		
21) 4,4'-DDD	NOT DETECTED	Expected RT = 11.140		
22) Endosulfan II	NOT DETECTED	Expected RT = 11.183		
23) Toxaphene	NOT DETECTED	Expected RT = 11.332		
24) 4,4'-DDT	11.621	14484	0.000	0.069 ug/Kg
25) Endrin aldehyde	NOT DETECTED	Expected RT = 11.730		
26) Endosulfan sulfate	12.131	9685	0.000	0.061 ug/Kg
27) Methoxychlor	NOT DETECTED	Expected RT = 12.673		
28) Mirex	12.875	55786	0.000	0.000 ug/Kg
29) Endrin ketone	12.875	55786	0.001	0.267 ug/Kg
30) Decachlorobiphenyl	14.645	1264682	0.020	0.197 ug/Kg

Data File Name: 019F1901.D
Inj. Date and Time: 15-MAR-2010 15:30
Instrument ID: a2hp9.i
Client ID: ATASB-008-5134-SO
Compound Name: Endrin ketone
CAS #: 53494-70-5
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

GC Semivolatiles

Lot-Sample #...: A0B250463-018 **Work Order #...:** LV3LJ1AD **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
Prep Date.....: 03/02/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0060035
Dilution Factor: 20 **Initial Wgt/Vol:** 30.15 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 2.0 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	82	ug/kg	24
alpha-BHC	ND	51	ug/kg	15
beta-BHC	ND	71	ug/kg	22
delta-BHC	ND	82	ug/kg	24
gamma-BHC (Lindane)	ND	51	ug/kg	15
alpha-Chlordane	ND	61	ug/kg	19
gamma-Chlordane	ND	35	ug/kg	8.6
4,4'-DDD	ND	41	ug/kg	13
4,4'-DDE	ND	35	ug/kg	8.0
4,4'-DDT	ND	41	ug/kg	13
Dieldrin	ND	35	ug/kg	9.6
Endosulfan I	ND	35	ug/kg	11
Endosulfan II	ND	51	ug/kg	17
Endosulfan sulfate	ND	61	ug/kg	18
Endrin	ND	35	ug/kg	10
Endrin aldehyde	ND	61	ug/kg	20
Endrin ketone	ND	41	ug/kg	13
Heptachlor	ND	71	ug/kg	22
Heptachlor epoxide	ND	51	ug/kg	16
Methoxychlor	ND	100	ug/kg	31
Toxaphene	ND	1400	ug/kg	390

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86 DIL	(70 - 125)
Decachlorobiphenyl	150 DIL,*	(55 - 130)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Elevated reporting limits. The reporting limits are elevated due to matrix interference.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\018F1801.D
Lab Smp Id: LV3LJ1AD Client Smp ID: F16SS-026M-5431-SO
Inj Date : 15-MAR-2010 15:05
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV3LJ1AD,20
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 09:26 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 18
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.150	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.795	3.794	0.001	72628	9e-004	0.1726		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.269	4.262	0.007	61286				
3 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC						CAS #: 319-84-6	

Peaks not detected for Quant. or Qual. signal(s).

5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.941	4.918	0.023	11521	7.e-005	0.4629		

```
--------------------------------------------------------------------------------
    6 beta-BHC                                    CAS #: 319-85-7
5.054    5.065   -0.011           43855 0.00108    7.195
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
5.339	5.314	0.025	69581	0.00042	2.785		
		Sum of Peak Concentrations =			2.785		
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
Peaks not detected for Quant. or Qual. signal(s).							
10 Aldrin					CAS #: 309-00-2		
Peaks not detected for Quant. or Qual. signal(s).							
11 Isodrin					CAS #: 465-73-6		
6.846	6.871	-0.025	40161				
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
8.482	8.470	0.012	12650	3e-004	1.729		
16 4,4'-DDE					CAS #: 72-55-9		
Peaks not detected for Quant. or Qual. signal(s).							
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							
18 Endrin					CAS #: 72-20-8		

Peaks not detected for Quant. or Qual. signal(s).

---

19 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

20 4,4'-DDD CAS #: 72-54-8

9.701	9.720	-0.019	38513	3e-004	2.181

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 Toxaphene CAS #: 8001-35-2

Operator disabled compound identification.

---

23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

10.604	10.584	0.020	4401	1e-004	0.6521		

---

26 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

11.674	11.679	-0.005	10973	2e-004	1.150		

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

13.230	13.233	-0.003	89324	0.00150	0.3007		(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\018F1801.D

Date : 15-MAR-2010 15:05

Client ID: F16SS-026M-5431-SO

Instrument: a2hp9.i

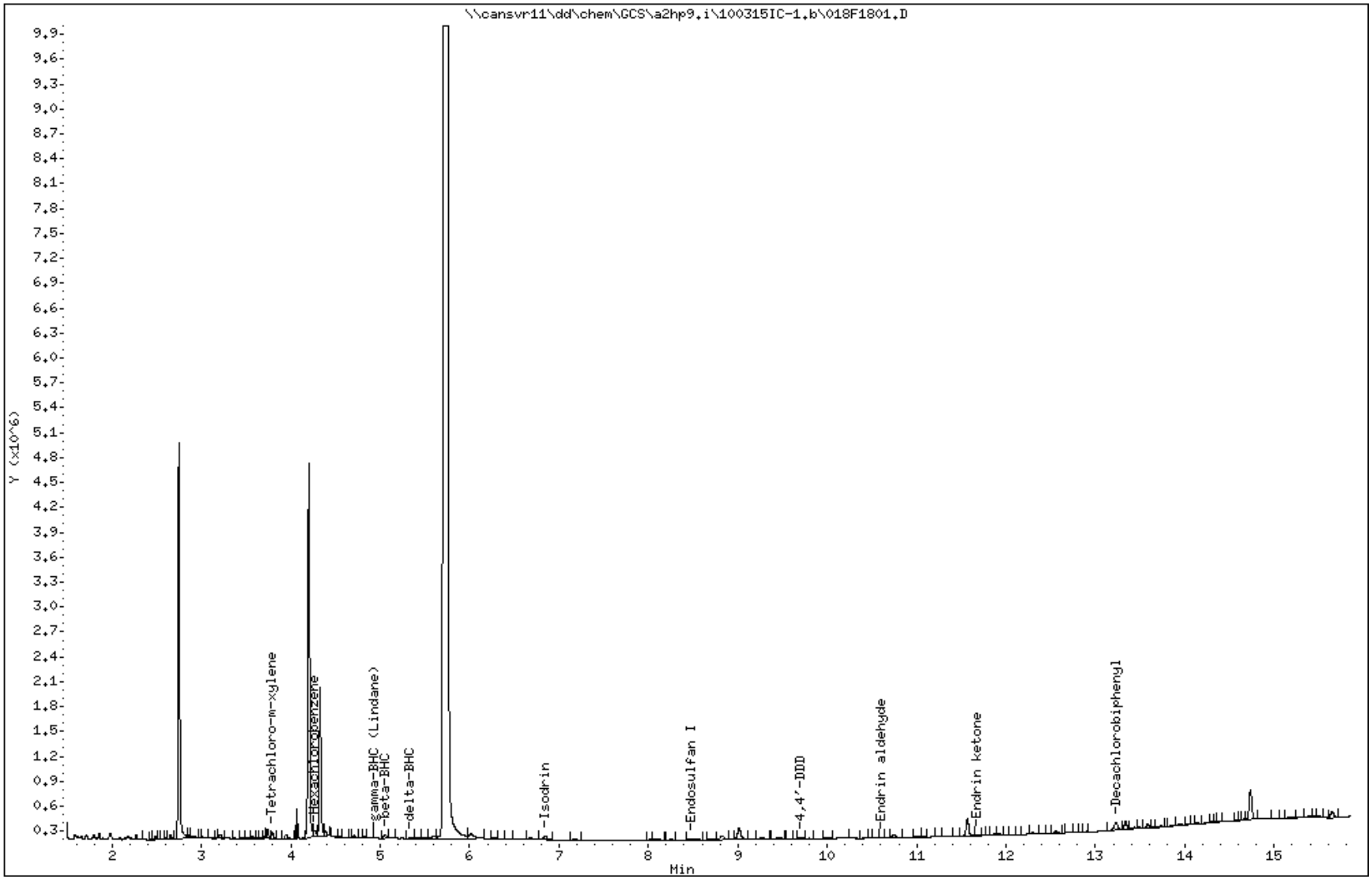
Sample Info: LV3LJ1AD,20

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 15:05
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/018F1801.D
Lab Sample ID: LV3LJ1AD
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 20

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.795	100003	0.001	0.173 ug/Kg
2) Hexachlorobenzene	4.269	126397	0.000	0.000 ug/Kg
3) Diallate	NOT DETECTED	Expected RT = 4.369		
4) alpha-BHC	NOT DETECTED	Expected RT = 4.496		
5) gamma-BHC (Lindane)	4.942	11521	0.000	0.463 ug/Kg
6) beta-BHC	5.054	96158	0.001	7.195 ug/Kg
7) delta-BHC	5.339	69581	0.000	2.785 ug/Kg
9) Tech Chlordane	NOT DETECTED	Expected RT = 5.371		
8) Heptachlor	NOT DETECTED	Expected RT = 5.638		
10) Aldrin	NOT DETECTED	Expected RT = 6.165		
11) Isodrin	6.846	116337	0.000	0.000 ug/Kg
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 7.600		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 7.901		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 8.214		
15) Endosulfan I	8.483	58010	0.000	1.729 ug/Kg
16) 4,4'-DDE	NOT DETECTED	Expected RT = 8.539		
17) Dieldrin	NOT DETECTED	Expected RT = 8.983		
18) Endrin	NOT DETECTED	Expected RT = 9.408		
19) Kepone	NOT DETECTED	Expected RT = 9.500		
20) 4,4'-DDD	9.702	38513	0.000	2.181 ug/Kg
22) Endosulfan II	NOT DETECTED	Expected RT = 9.830		
21) Chlorobenzilate	NOT DETECTED	Expected RT = 9.844		
24) Toxaphene	NOT DETECTED	Expected RT = 9.952		
23) 4,4'-DDT	NOT DETECTED	Expected RT = 10.212		
25) Endrin aldehyde	10.604	9700	0.000	0.652 ug/Kg
26) Mirex	NOT DETECTED	Expected RT = 10.813		
27) Methoxychlor	NOT DETECTED	Expected RT = 11.109		
28) Endosulfan sulfate	NOT DETECTED	Expected RT = 11.285		
29) Endrin ketone	11.674	34607	0.000	1.150 ug/Kg
30) Decachlorobiphenyl	13.230	285639	0.002	0.301 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\018F1801.D
Lab Smp Id: LV3LJ1AD Client Smp ID: F16SS-026M-5431-SO
Inj Date : 15-MAR-2010 15:05
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV3LJ1AD,20
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 09:28 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 18
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.150	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.367	4.367	0.000	90327	0.00185	0.3694		(R)
2 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene	CAS #: 118-74-1

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC	CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

5 gamma-BHC (Lindane)	CAS #: 58-89-9

```
5.913    5.939   -0.026           11265  1e-004   0.7598
-------------------------------------------------------------------------------
    6 beta-BHC                                     CAS #: 319-85-7
6.166    6.145    0.021         1219844 0.06654    441.4
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

Peaks not detected for Quant. or Qual. signal(s).

---

16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

19 Chlorobenzilate CAS #: 510-15-6

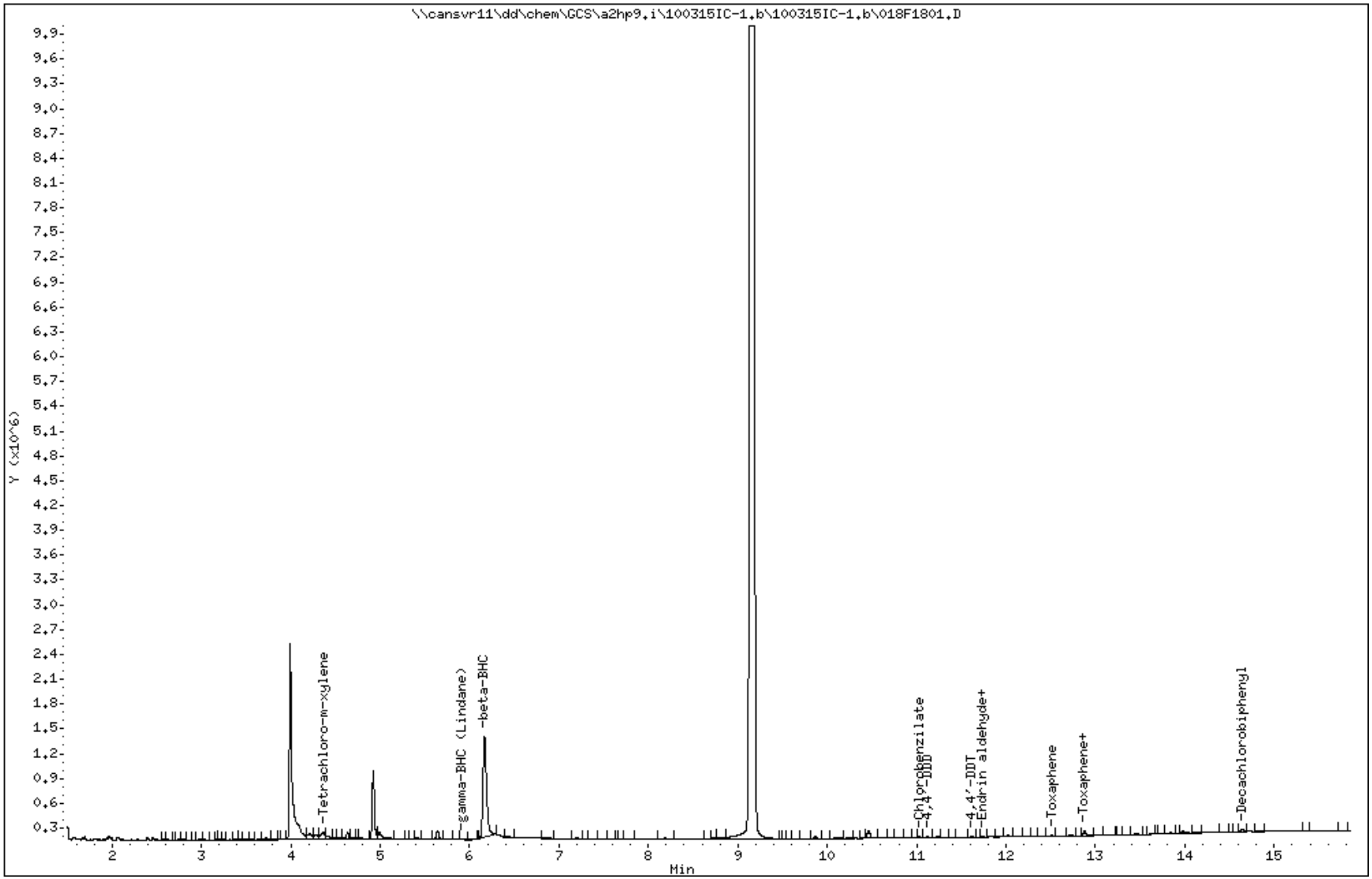
11.034 11.042 -0.008 11667

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
20 Kepone					CAS #: 143-50-0		
Peaks not detected for Quant. or Qual. signal(s).							
18 Endrin					CAS #: 72-20-8		
Peaks not detected for Quant. or Qual. signal(s).							
21 4,4'-DDD					CAS #: 72-54-8		
11.122	11.140	-0.018	11221	4e-004	2.526		
22 Endosulfan II					CAS #: 33213-65-9		
Peaks not detected for Quant. or Qual. signal(s).							
23 Toxaphene					CAS #: 8001-35-2		
0.000	11.332	-11.332	0	0.0000	0.0000	80.00- 120.00	0.00
0.000	11.445	-11.445	0	0.0000	0.0000	114.04- 154.04	0.00
11.742	11.745	-0.003	4357	0.00346	22.96	115.64- 155.64	0.00
12.515	12.488	0.027	9960	0.00860	57.03	52.78- 92.78	0.00
12.874	12.862	0.012	57104	0.10139	672.6	69.36- 109.36	0.00
Average of Peak Concentrations =					250.8		
24 4,4'-DDT					CAS #: 50-29-3		
11.617	11.623	-0.006	8435	3e-004	2.200		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.742	11.730	0.012	9638	2e-004	1.178		
26 Endosulfan sulfate					CAS #: 1031-07-8		
Peaks not detected for Quant. or Qual. signal(s).							
28 Mirex					CAS #: 2385-85-5		
Operator disabled compound identification.							
27 Methoxychlor					CAS #: 72-43-5		
Peaks not detected for Quant. or Qual. signal(s).							
29 Endrin ketone					CAS #: 53494-70-5		
12.874	12.890	-0.016	123881	0.00178	11.80		(M)
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.646	14.643	0.003	69127	0.00108	0.2156		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\018F1801.D Page 1
Date : 15-MAR-2010 15:05
Client ID: F16SS-026M-5431-SO Instrument: a2hp9.i
Sample Info: LV3LJ1AD,20
Volume Injected (uL): 1.0 Operator: 093905
Column phase: clp pesticides II Column diameter: 0.53

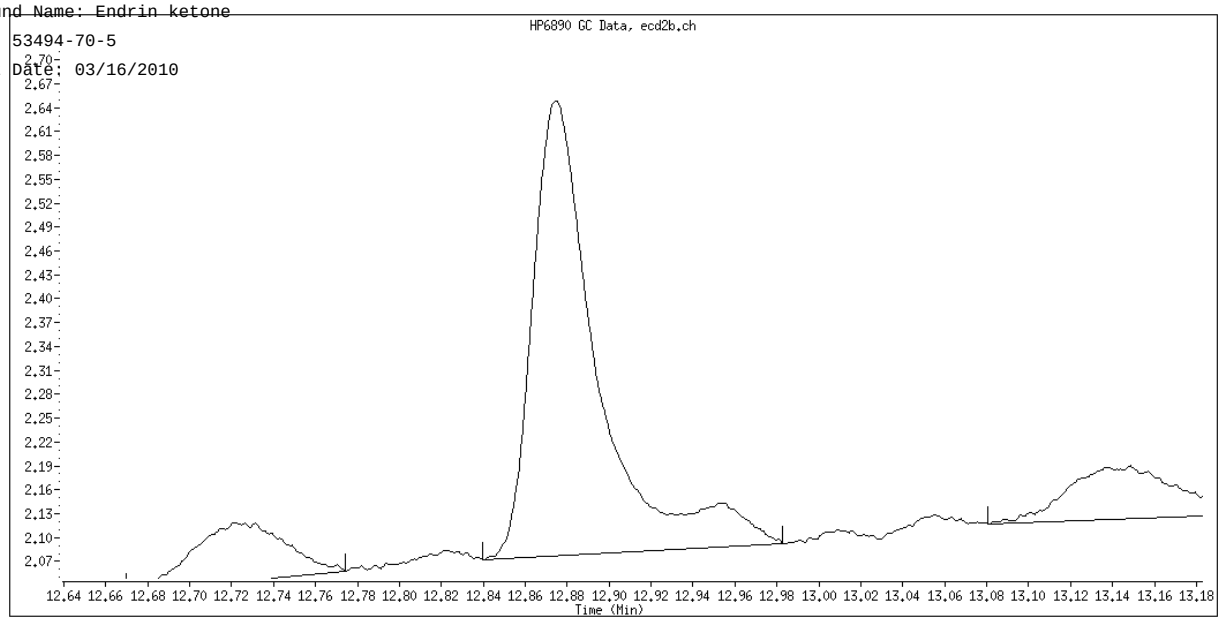


COMPOUNDS and EXP. RT REPORT

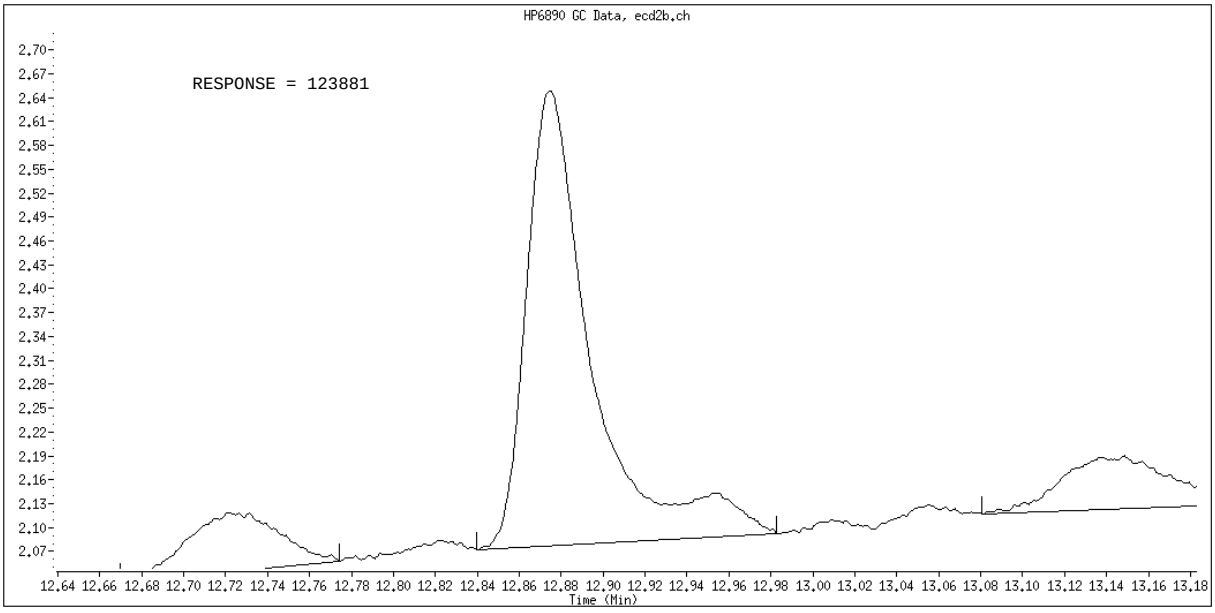
Operator: 093905 Date Acquired: 15-MAR-2010 15:05
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/018F1801.D
Lab Sample ID: LV3LJ1AD
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 20

Compound	RT	Area	Amount	Conc
23) Toxaphene	0.000	0	0.000	0.000 ug/Kg
1) Tetrachloro-m-xylene	4.368	278926	0.002	0.369 ug/Kg
2) Diallate	NOT DETECTED	Expected RT = 5.042		
3) Hexachlorobenzene	NOT DETECTED	Expected RT = 5.105		
4) alpha-BHC	NOT DETECTED	Expected RT = 5.285		
5) gamma-BHC (Lindane)	5.914	11265	0.000	0.760 ug/Kg
6) beta-BHC	6.167	3412758	0.067	441.400 ug/Kg
9) Tech Chlordane	NOT DETECTED	Expected RT = 6.391		
7) delta-BHC	NOT DETECTED	Expected RT = 6.799		
8) Heptachlor	NOT DETECTED	Expected RT = 6.917		
10) Aldrin	NOT DETECTED	Expected RT = 7.741		
11) Isodrin	NOT DETECTED	Expected RT = 8.771		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 9.089		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 9.475		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 9.761		
15) Endosulfan I	NOT DETECTED	Expected RT = 9.825		
16) 4,4'-DDE	NOT DETECTED	Expected RT = 10.167		
17) Dieldrin	NOT DETECTED	Expected RT = 10.323		
18) Endrin	NOT DETECTED	Expected RT = 10.823		
19) Chlorobenzilate	11.034	25794	0.000	0.000 ug/Kg
20) Kepone	NOT DETECTED	Expected RT = 11.090		
21) 4,4'-DDD	11.123	30521	0.000	2.526 ug/Kg
22) Endosulfan II	NOT DETECTED	Expected RT = 11.183		
24) 4,4'-DDT	11.618	20953	0.000	2.200 ug/Kg
25) Endrin aldehyde	11.743	9638	0.000	1.178 ug/Kg
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.153		
27) Methoxychlor	NOT DETECTED	Expected RT = 12.673		
28) Mirex	NOT DETECTED	Expected RT = 12.864		
29) Endrin ketone	12.874	123881	0.002	11.804 ug/Kg
30) Decachlorobiphenyl	14.647	69127	0.001	0.216 ug/Kg

Data File Name: 018F1801.D
Inj. Date and Time: 15-MAR-2010 15:05
Instrument ID: a2hp9.i
Client ID: F16SS-026M-5431-SO
Compound Name: Endrin ketone
CAS #: 53494-70-5
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 11-Mar-2010 08:08

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Start Cal Date: 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
09-MAR-2010 12:34	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\010F1001.D
09-MAR-2010 09:45	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\003F0301.D
Cal Level: 2 , Cal Amount: 0.01000		
09-MAR-2010 12:58	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\011F1101.D
09-MAR-2010 10:09	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\004F0401.D
Cal Level: 3 , Cal Amount: 0.02500		
09-MAR-2010 13:23	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\012F1201.D
09-MAR-2010 10:33	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\005F0501.D
Cal Level: 4 , Cal Amount: 0.05000		
09-MAR-2010 13:48	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\013F1301.D
09-MAR-2010 10:57	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\006F0601.D
Cal Level: 5 , Cal Amount: 0.10000		
09-MAR-2010 14:13	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\014F1401.D
09-MAR-2010 11:20	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\007F0701.D
Cal Level: 6 , Cal Amount: 0.20000		
09-MAR-2010 11:44	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\008F0801.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

09-MAR-2010 17:26	1-ab	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\022F2201.D
09-MAR-2010 22:30	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\034F3401.D
09-MAR-2010 22:06	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\033F3301.D
09-MAR-2010 13:23	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\012F1201.D
09-MAR-2010 12:09	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\009F0901.D
09-MAR-2010 10:33	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\005F0501.D

Report Date: 11-Mar-2010 08:15

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Start Cal Date: 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
09-MAR-2010 12:34	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\010F1001.D
09-MAR-2010 09:45	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\003F0301.D
Cal Level: 2 , Cal Amount: 0.01000		
09-MAR-2010 12:58	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\011F1101.D
09-MAR-2010 10:09	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\004F0401.D
Cal Level: 3 , Cal Amount: 0.02500		
09-MAR-2010 13:23	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\012F1201.D
09-MAR-2010 10:33	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\005F0501.D
Cal Level: 4 , Cal Amount: 0.05000		
09-MAR-2010 13:48	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\013F1301.D
09-MAR-2010 10:57	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\006F0601.D
Cal Level: 5 , Cal Amount: 0.10000		
09-MAR-2010 14:13	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\014F1401.D
09-MAR-2010 11:20	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\007F0701.D
Cal Level: 6 , Cal Amount: 0.20000		
09-MAR-2010 11:44	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\008F0801.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

09-MAR-2010 22:06	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\033F3301.D
09-MAR-2010 17:26	1-ab	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\022F2201.D
09-MAR-2010 22:30	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\034F3401.D
09-MAR-2010 22:06	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\033F3301.D
09-MAR-2010 17:26	19-pestap9	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\022F2201.D
09-MAR-2010 13:23	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\012F1201.D
09-MAR-2010 12:09	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\009F0901.D
09-MAR-2010 10:33	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\005F0501.D

Report Date : 11-Mar-2010 08:08

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Last Edit : 10-Mar-2010 10:05 a2hp9.i

Calibration File Names:
Level 1: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\010F1001.D
Level 2: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\011F1101.D
Level 3: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\012F1201.D
Level 4: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\013F1301.D
Level 5: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\014F1401.D
Level 6: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\008F0801.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
4 alpha-BHC	100751200	120532000	134349920	135014420	138294110	140074000	AVRG		128169275		11.77778
5 gamma-BHC (Lindane)	128082800	149235400	161007920	165364260	172443330	176154935	AVRG		158714774		11.16572
6 beta-BHC	36516000	38881300	39073680	38634500	39965510	40321300	AVRG		38898715		3.43752
7 delta-BHC	116976400	143163100	159973640	165629100	171952000	178208215	AVRG		155983743		14.46031
8 Heptachlor	57399800	70243500	76070040	75772860	77369390	77823620	AVRG		72446535		10.84413
9 Tech Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
10 Aldrin	131020400	142696700	151345120	155626660	164673070	167678875	AVRG		152173471		9.04156
11 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Last Edit : 10-Mar-2010 10:05 a2hp9.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Heptachlor epoxide	39015000	43337700	45941480	45840640	47041230	47315935	AVRG		44748664		7.01908	
13 gamma-Chlordane	39880400	44778100	48103760	48986700	50967750	52438980	AVRG		47525948		9.61728	
14 alpha-Chlordane	42421000	46514200	49472000	50355620	51562470	53587490	AVRG		48985463		8.12132	
15 Endosulfan I	40600000	44924300	47904520	48068740	48293630	48585745	AVRG		46396156		6.76308	
16 4,4'-DDE	103118000	119049700	128342680	133509580	136952540	145893670	AVRG		127811028		11.76115	
17 Dieldrin	113853200	127078900	137935280	143407620	144624480	150363145	AVRG		136210438		9.89944	
18 Endrin	40375000	47526500	51824680	53068240	52487630	53598055	AVRG		49813351		10.25307	
19 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
20 4,4'-DDD	72914000	88412900	97761320	102595380	102273260	111280855	AVRG		95872953		14.07063	
21 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
22 Endosulfan II	42685600	47087200	50957160	52441820	50537580	51735425	AVRG		49240798		7.52812	
23 4,4'-DDT	81624600	97426800	107222280	111104640	109738600	120764175	AVRG		104646849		12.93540	
24 Toxaphene(1)	1688030	1839930	1715403	1957511	1993451	+++++	AVRG		1838865		7.49441	
(2)	1648105	1819990	1748994	1996535	2004955	+++++	AVRG		1843716		8.45275	
(3)	1468905	1609068	1502518	1739032	1755718	+++++	AVRG		1615048		8.14497	
(4)	2186820	2366458	2171927	2517937	2512230	+++++	AVRG		2351074		7.15288	
(5)	1994970	2212650	2096343	2428959	2443968	+++++	AVRG		2235378		8.90855	
25 Endrin aldehyde	36633200	40225400	42307360	43866960	41935190	43695515	AVRG		41443938		6.52425	
26 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
27 Methoxychlor	45479800	50549100	54040680	52746320	49194100	51791250	AVRG		50633542		5.99384	
28 Endosulfan sulfate	86811800	96759700	103459920	105141520	101620540	106666025	AVRG		100076584		7.34096	
29 Endrin ketone	51645400	58009400	62412800	63034880	59384050	61340185	AVRG		59304453		7.07675	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Last Edit : 10-Mar-2010 10:05 a2hp9.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 1 Tetrachloro-m-xylene	70943600	79708400	83753600	81902600	85264060	84968220	AVRG		81090080		6.64272
$ 30 Decachlorobiphenyl	52702200	55380500	55879960	56106820	51468570	53566885	AVRG		54184156		3.49734

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Last Edit : 10-Mar-2010 10:05 a2hp9.i

Average %RSD Results.
Calculated Average %RSD = 8.73796
Maximun Average %RSD = 20.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Last Edit : 10-Mar-2010 10:11 a2hp9.i

Calibration File Names:
Level 1: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\010F1001.D
Level 2: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\011F1101.D
Level 3: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\012F1201.D
Level 4: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\013F1301.D
Level 5: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\014F1401.D
Level 6: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\008F0801.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
55 DDD/Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
4 alpha-BHC	83714200	94402100	104984360	108543680	116590300	120906845	AVRG		104856914		13.25032
5 gamma-BHC (Lindane)	78374000	87941300	94531000	97360480	103572990	107915575	AVRG		94949224		11.26804
6 beta-BHC	39884800	41246400	41845240	40177280	40603260	41616490	AVRG		40895578		1.94631
7 delta-BHC	71003000	82484100	90895240	95418720	101770940	108652220	AVRG		91704037		14.76423
8 Heptachlor	75753200	87420400	90415280	90029080	94269140	97380560	AVRG		89211277		8.36978
9 Tech Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
10 Aldrin	25139800	27428400	29665440	30312400	31977310	33219060	AVRG		29623735		9.99870

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Last Edit : 10-Mar-2010 10:11 a2hp9.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
11 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
12 Heptachlor epoxide	71553600	77056300	79350640	80234400	82208220	84664515	AVRG		79177946		5.73406	
13 gamma-Chlordane	69018000	74919600	77820240	79761120	82684290	87312275	AVRG		78585921		8.04594	
14 alpha-Chlordane	69630600	74690000	76856400	77561620	80440820	84215460	AVRG		77232483		6.43651	
15 Endosulfan I	65595200	70003400	72313760	73289900	74367740	77437685	AVRG		72167948		5.60380	
16 4,4'-DDE	24126600	27871900	30536720	31800480	32582720	35073290	AVRG		30331952		12.70919	
17 Dieldrin	64975400	70027600	75489680	78405080	78969230	83772285	AVRG		75273213		8.99679	
18 Endrin	54327200	61760200	66215120	68154900	68816360	73659130	AVRG		65488818		10.21927	
19 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
20 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
21 4,4'-DDD	18796600	22298000	24766920	25883280	25711400	28708195	AVRG		24360733		14.03182	
22 Endosulfan II	26747800	28947900	30741040	31975840	31079690	33186175	AVRG		30446408		7.52687	
23 Toxaphene (1)	1173575	1281590	1200957	1380973	1430990	+++++	AVRG		1293617		8.61178	
(2)	565470	628894	586724	676931	711933	+++++	AVRG		633990		9.61841	
(3)	1112780	1214530	1138061	1320277	1382206	+++++	AVRG		1233571		9.39149	
(4)	1086020	1162492	1057105	1215859	1267776	+++++	AVRG		1157850		7.57612	
(5)	511650	574976	544982	649576	684707	+++++	AVRG		593178		12.17401	
24 4,4'-DDT	20441800	24674200	26516080	27765080	27571810	30495520	AVRG		26244082		13.01746	
25 Endrin aldehyde	45671200	48967600	50950720	51928740	49502090	52608035	AVRG		49938064		5.02260	
26 Endosulfan sulfate	23520400	26330800	27649480	28532600	27893470	30340160	AVRG		27377818		8.39693	
27 Methoxychlor	23257200	25756600	27470600	26917780	25025850	26663305	AVRG		25848556		5.95288	
28 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Last Edit : 10-Mar-2010 10:11 a2hp9.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
29 Endrin ketone	64088200	66207400	68730880	68360560	65576530	69910810	AVRG		67145730		3.28494
$ 1 Tetrachloro-m-xylene	42783400	46032300	48025880	47308540	49597910	50271245	AVRG		47336546		5.71825
$ 30 Decachlorobiphenyl	58648200	62500600	62385680	60928040	55385080	57266940	AVRG		59519090		4.87022

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Last Edit : 10-Mar-2010 10:11 a2hp9.i

Average %RSD Results.
Calculated Average %RSD = 8.61247
Maximun Average %RSD = 20.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b/002F0201.D
Report Date: 03/09/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 09-MAR-2010 09:21
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\P

4,4'-DDT Degradation

RT	Area	Compound
10.217	10608589	4,4'-DDT
8.5460	69119	4,4'-DDE
9.7268	39953	4,4'-DDD

Percent Degradation of 4,4'-DDT: 1.02

Endrin Degradation

RT	Area	Compound
9.4135	5660441	Endrin
10.590	215448	Endrin aldehyde
11.684	446266	Endrin ketone

Percent Degradation of Endrin: 10.47

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 09-MAR-2010 09:21
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	1211435	0.00945	0.009452		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.922	4.923	-0.001	1494205	0.00941	0.009414		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	366834	0.00943	0.009430		
16 4,4'-DDE						CAS #: 72-55-9	
8.546	8.548	-0.002	69119	5e-004	0.0005408		
18 Endrin						CAS #: 72-20-8	
9.413	9.414	-0.001	2316456	0.04650	0.04650		
20 4,4'-DDD						CAS #: 72-54-8	
9.726	9.727	-0.001	39953	4e-004	0.0004167		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.216	10.217	-0.001	10608589	0.10138	0.1014		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.590	10.590	0.000	95143	0.00230	0.002296		

```
   27 Methoxychlor                                CAS #: 72-43-5
11.112  11.114   -0.002        12075193 0.23848   0.2385
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.281  11.291   -0.010           44890  4e-004  0.0004486
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.683	11.684	-0.001	212933	0.00359	0.003590		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\002F0201.D

Page 1

Date : 09-MAR-2010 09:21

Client ID:

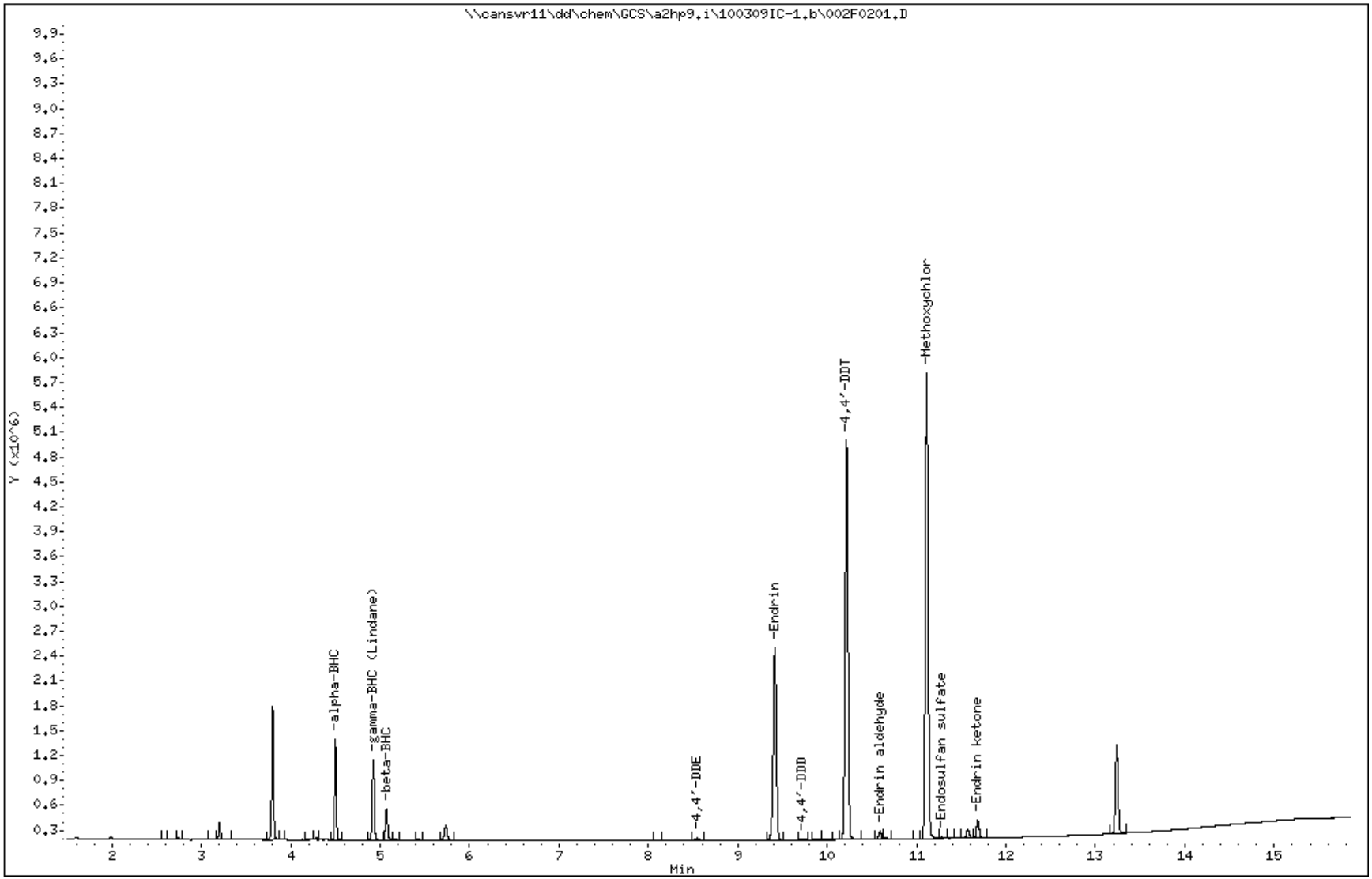
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 09:21
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	NOT DETECTED	Expected RT = 4.401		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 4.807		
6) beta-BHC	4.923	1494205	0.000	0.000
16) 4,4'-DDE	NOT DETECTED	Expected RT = 8.359		
18) Endrin	NOT DETECTED	Expected RT = 9.238		
20) 4,4'-DDD	NOT DETECTED	Expected RT = 9.563		
22) Endosulfan II	NOT DETECTED	Expected RT = 9.668		
23) 4,4'-DDT	NOT DETECTED	Expected RT = 10.060		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 10.432		
27) Methoxychlor	10.989	8015	0.000	0.000
28) Endosulfan sulfate	11.113	12075193	0.000	0.000
29) Endrin ketone	NOT DETECTED	Expected RT = 11.532		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b/002F0201.D
Report Date: 03/09/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 09-MAR-2010 09:21
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\

4,4'-DDT Degradation

RT	Area	Compound
11.637	5321643	4,4'-DDT
10.181	46637	4,4'-DDE
11.154	33929	4,4'-DDD

Percent Degradation of 4,4'-DDT: 1.49

Endrin Degradation

RT	Area	Compound
10.838	2970683	Endrin
11.744	133439	Endrin aldehyde
12.902	294704	Endrin ketone

Percent Degradation of Endrin: 12.60

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 09-MAR-2010 09:21
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:08 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 10:09 Cal File: 004F0401.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
5.296	5.294	0.002	953353	0.00909	0.009092		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.952	5.951	0.001	882515	0.00929	0.009294		
6 beta-BHC					CAS #: 319-85-7		
6.158	6.156	0.002	398470	0.00974	0.009744		
16 4,4'-DDE					CAS #: 72-55-9		
10.181	10.180	0.001	18157	6.e-004	0.0005986		
18 Endrin					CAS #: 72-20-8		
10.837	10.836	0.001	2970683	0.04536	0.04536		
21 4,4'-DDD					CAS #: 72-54-8		
11.153	11.152	0.001	10713	0.00044	0.0004398		
22 Endosulfan II					CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		
11.636	11.634	0.002	2697409	0.10278	0.1028		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.744	11.742	0.002	133439	0.00267	0.002672		

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   27 Methoxychlor                                CAS #: 72-43-5
12.684  12.684    0.000         6276519 0.24282   0.2428
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

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29 Endrin ketone CAS #: 53494-70-5

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
12.901	12.903	-0.002	294704	0.00439	0.004389		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\002F0201.D

Page 1

Date : 09-MAR-2010 09:21

Client ID:

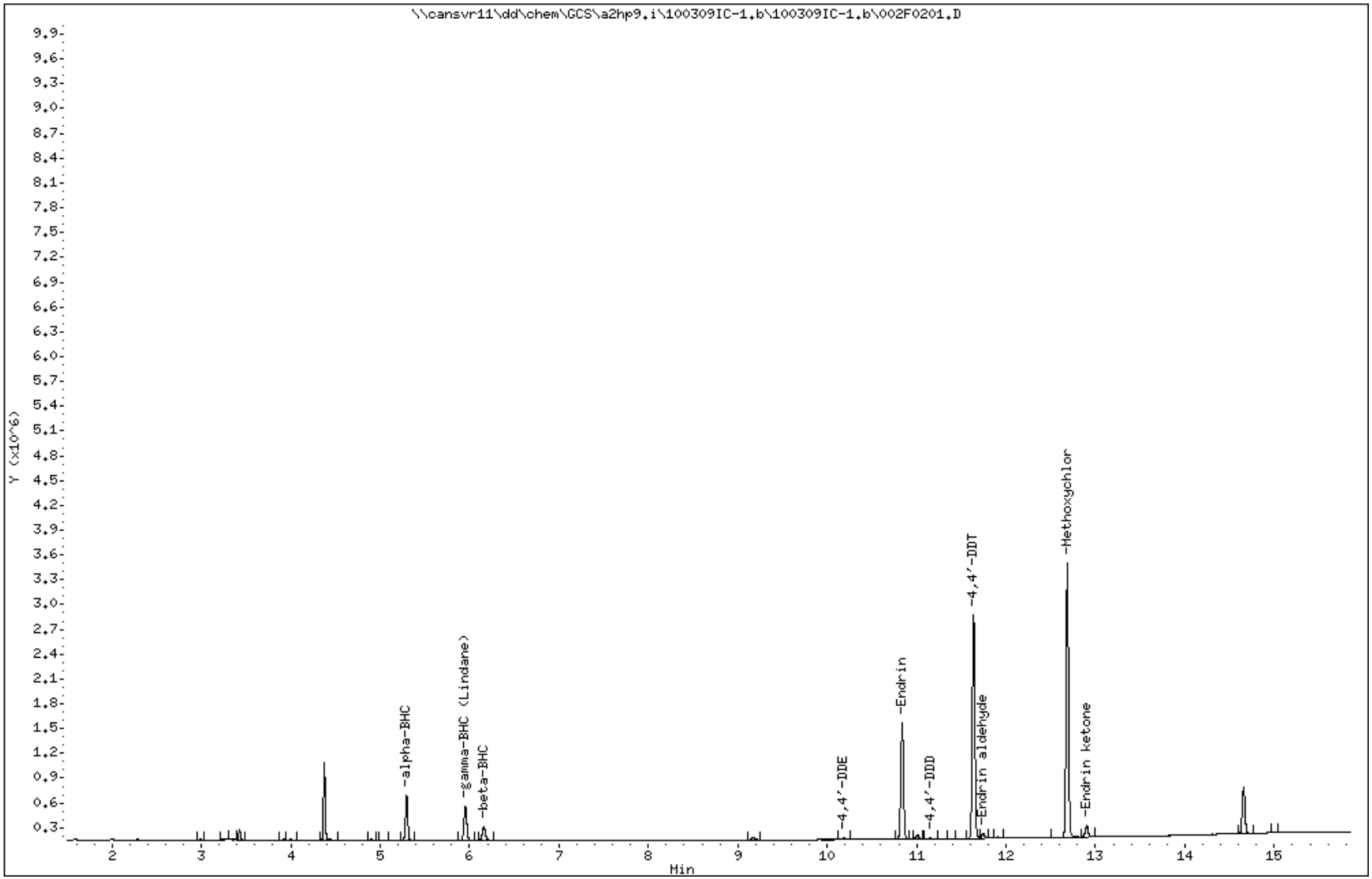
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 09:21
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	NOT DETECTED	Expected RT = 5.227		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 5.869		
6) beta-BHC	NOT DETECTED	Expected RT = 6.070		
16) 4,4'-DDE	NOT DETECTED	Expected RT = 10.104		
18) Endrin	NOT DETECTED	Expected RT = 10.759		
21) 4,4'-DDD	NOT DETECTED	Expected RT = 11.083		
22) Endosulfan II	NOT DETECTED	Expected RT = 11.120		
24) 4,4'-DDT	NOT DETECTED	Expected RT = 11.595		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 11.671		
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.094		
27) Methoxychlor	NOT DETECTED	Expected RT = 12.630		
29) Endrin ketone	NOT DETECTED	Expected RT = 12.832		

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\003F0301.D
Lab Smp Id: AB1 G250
Inj Date : 09-MAR-2010 09:45
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB1 G250,,1,1
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 09:45 Cal File: 003F0301.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.798	3.799	-0.001	354718	0.00500	0.004374		
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	503756	0.00500	0.003930		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.922	4.923	-0.001	640414	0.00500	0.004035		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	182580	0.00500	0.004694		
7 delta-BHC						CAS #: 319-86-8	
5.317	5.319	-0.002	584882	0.00500	0.003750		
		Sum of Peak Amounts =			0.00375		
8 Heptachlor						CAS #: 76-44-8	
5.642	5.644	-0.002	286999	0.00500	0.003962		
10 Aldrin						CAS #: 309-00-2	
6.171	6.170	0.001	655102	0.00500	0.004305		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.609	7.609	0.000	195075	0.00500	0.004359		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.908	7.909	-0.001	199402	0.00500	0.004196		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.223	8.223	0.000	212105	0.00500	0.004330		

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   15 Endosulfan I                                CAS #: 959-98-8
8.477    8.477    0.000          203000 0.00500  0.004375
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
	16 4,4'-DDE				CAS #: 72-55-9		
8.546	8.548	-0.002	515590	0.00500	0.004034		
	17 Dieldrin				CAS #: 60-57-1		
8.990	8.989	0.001	569266	0.00500	0.004179		
	18 Endrin				CAS #: 72-20-8		
9.414	9.414	0.000	201875	0.00500	0.004053		
	20 4,4'-DDD				CAS #: 72-54-8		
9.726	9.727	-0.001	364570	0.00500	0.003803		
	22 Endosulfan II				CAS #: 33213-65-9		
9.836	9.836	0.000	213428	0.00500	0.004334		
	23 4,4'-DDT				CAS #: 50-29-3		
10.217	10.217	0.000	408123	0.00500	0.003900		
	25 Endrin aldehyde				CAS #: 7421-93-4		
10.590	10.590	0.000	183166	0.00500	0.004420		
	27 Methoxychlor				CAS #: 72-43-5		
11.113	11.114	-0.001	227399	0.00500	0.004491		
	28 Endosulfan sulfate				CAS #: 1031-07-8		
11.290	11.291	-0.001	434059	0.00500	0.004337		
	29 Endrin ketone				CAS #: 53494-70-5		
11.685	11.684	0.001	258227	0.00500	0.004354		
$	30 Decachlorobiphenyl				CAS #: 2051-24-3		
13.239	13.239	0.000	263511	0.00500	0.004863		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\003F0301.D

Date : 09-MAR-2010 09:45

Client ID:

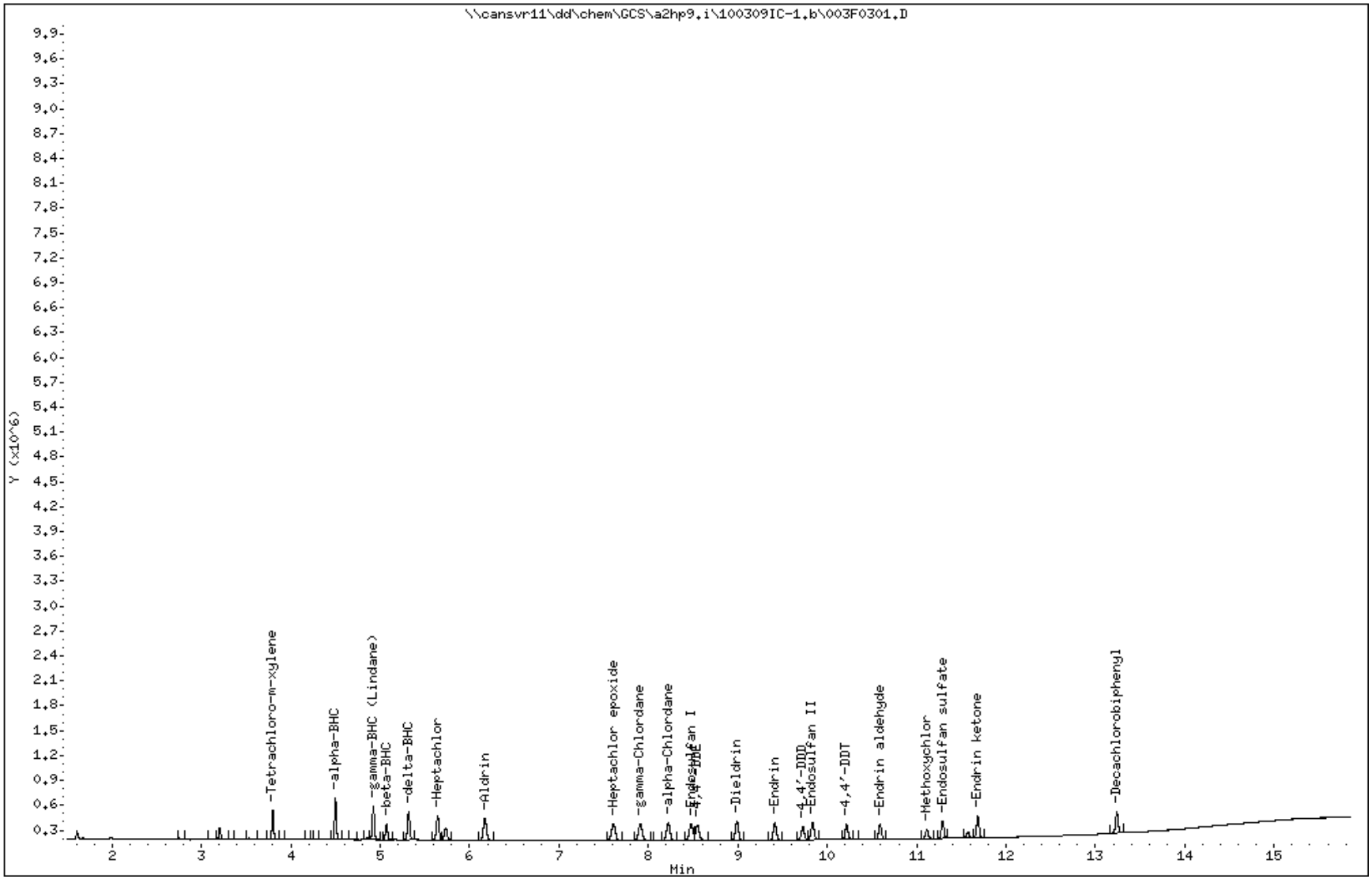
Instrument: a2hp9.i

Sample Info: AB1 G250,,1,1

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 09:45
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/003F0301.D
Lab Sample ID: AB1 G250
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.799	512231	0.004	0.004
4) alpha-BHC	4.499	707554	0.004	0.004
5) gamma-BHC (Lindane)	4.923	640414	0.004	0.004
6) beta-BHC	5.070	318160	0.005	0.005
7) delta-BHC	5.318	584882	0.004	0.004
8) Heptachlor	5.643	598381	0.004	0.004
10) Aldrin	6.172	655102	0.004	0.004
12) Heptachlor epoxide	7.609	604152	0.004	0.004
13) gamma-Chlordane	7.909	592876	0.004	0.004
14) alpha-Chlordane	8.224	604002	0.004	0.004
15) Endosulfan I	8.478	562977	0.004	0.004
16) 4,4'-DDE	8.547	515590	0.004	0.004
17) Dieldrin	8.990	569266	0.004	0.004
18) Endrin	9.414	494785	0.004	0.004
20) 4,4'-DDD	9.727	364570	0.004	0.004
22) Endosulfan II	9.836	510888	0.004	0.004
23) 4,4'-DDT	10.218	408123	0.004	0.004
25) Endrin aldehyde	10.590	410039	0.004	0.004
27) Methoxychlor	11.114	227399	0.004	0.004
28) Endosulfan sulfate	11.290	434059	0.004	0.004
29) Endrin ketone	11.685	536879	0.004	0.004
30) Decachlorobiphenyl	13.239	551668	0.005	0.005

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\004F0401.D
Lab Smp Id: AB2 G251
Inj Date : 09-MAR-2010 10:09
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB2 G251,,1,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.797	3.799	-0.002	797084	0.01000	0.009830		
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	1205320	0.01000	0.009404		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.923	4.923	0.000	1492354	0.01000	0.009403		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	388813	0.01000	0.009996		
7 delta-BHC						CAS #: 319-86-8	
5.318	5.319	-0.001	1431631	0.01000	0.009178		
Sum of Peak Amounts =					0.00918		
8 Heptachlor						CAS #: 76-44-8	
5.644	5.644	0.000	702435	0.01000	0.009696		
10 Aldrin						CAS #: 309-00-2	
6.171	6.170	0.001	1426967	0.01000	0.009377		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.609	7.609	0.000	433377	0.01000	0.009685		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.909	7.909	0.000	447781	0.01000	0.009422		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.222	8.223	-0.001	465142	0.01000	0.009496		

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   15 Endosulfan I                                CAS #: 959-98-8
8.478    8.477    0.001          449243 0.01000  0.009683
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.548	8.548	0.000	1190497	0.01000	0.009314		
17 Dieldrin					CAS #: 60-57-1		
8.989	8.989	0.000	1270789	0.01000	0.009330		
18 Endrin					CAS #: 72-20-8		
9.414	9.414	0.000	475265	0.01000	0.009541		
20 4,4'-DDD					CAS #: 72-54-8		
9.725	9.727	-0.002	884129	0.01000	0.009222		
22 Endosulfan II					CAS #: 33213-65-9		
9.836	9.836	0.000	470872	0.01000	0.009563		
23 4,4'-DDT					CAS #: 50-29-3		
10.216	10.217	-0.001	974268	0.01000	0.009310		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.589	10.590	-0.001	402254	0.01000	0.009706		
27 Methoxychlor					CAS #: 72-43-5		
11.114	11.114	0.000	505491	0.01000	0.009983		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.289	11.291	-0.002	967597	0.01000	0.009668		
29 Endrin ketone					CAS #: 53494-70-5		
11.684	11.684	0.000	580094	0.01000	0.009782		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.238	13.239	-0.001	553805	0.01000	0.01022		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\004F0401.D

Page 1

Date : 09-MAR-2010 10:09

Client ID:

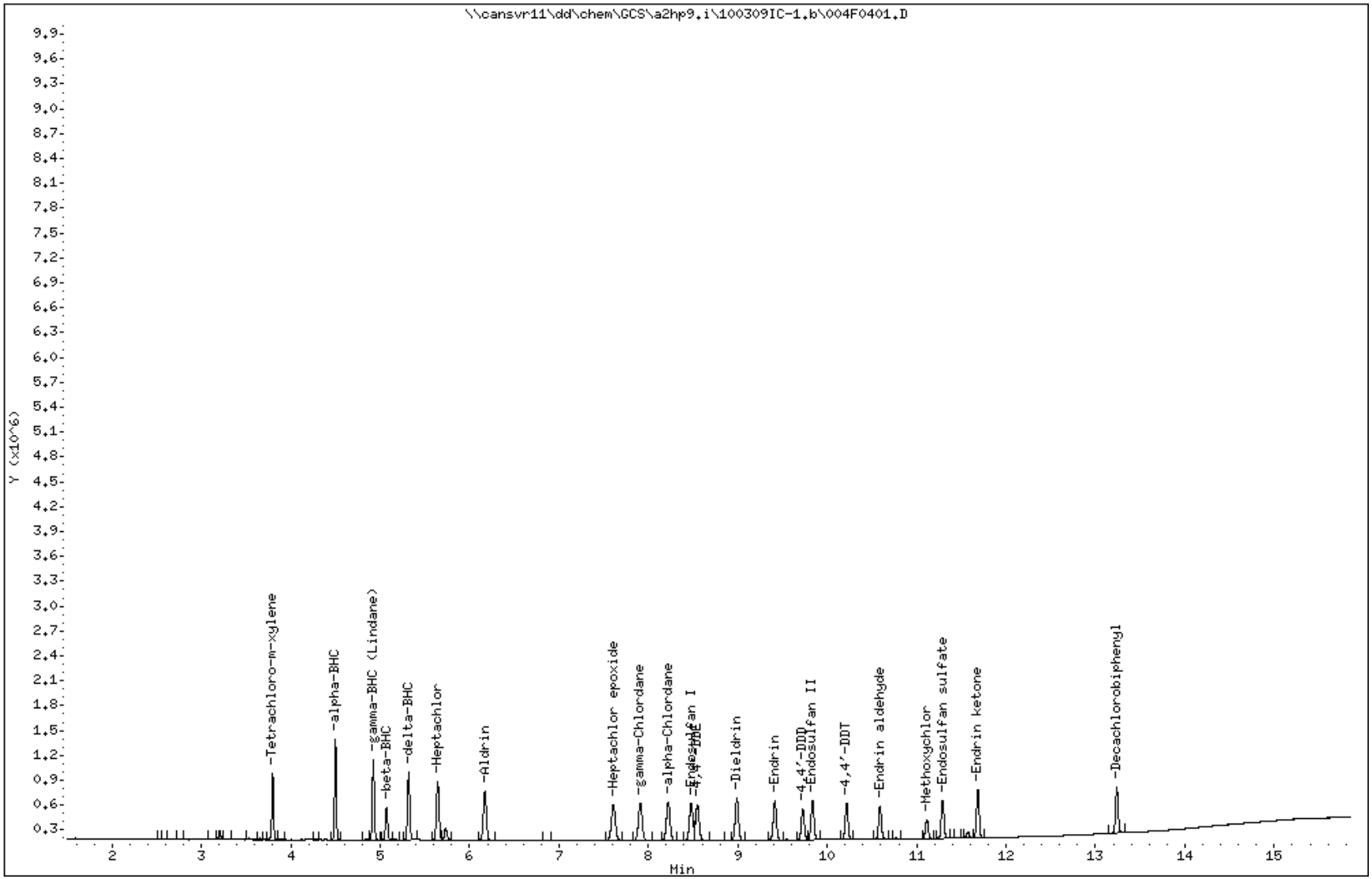
Instrument: a2hp9.i

Sample Info: AB2 G251,,1,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 10:09
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/004F0401.D
Lab Sample ID: AB2 G251
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.797	1070260	0.010	0.010
4) alpha-BHC	4.500	1632091	0.009	0.009
5) gamma-BHC (Lindane)	4.923	1492354	0.009	0.009
6) beta-BHC	5.071	663282	0.010	0.010
7) delta-BHC	5.318	1431631	0.009	0.009
8) Heptachlor	5.644	1450131	0.010	0.010
10) Aldrin	6.172	1426967	0.009	0.009
12) Heptachlor epoxide	7.609	1320935	0.010	0.010
13) gamma-Chlordane	7.910	1314893	0.009	0.009
14) alpha-Chlordane	8.222	1316434	0.009	0.009
15) Endosulfan I	8.478	1236186	0.010	0.010
16) 4,4'-DDE	8.548	1190497	0.009	0.009
17) Dieldrin	8.990	1270789	0.009	0.009
18) Endrin	9.414	1149686	0.010	0.010
20) 4,4'-DDD	9.726	884129	0.009	0.009
22) Endosulfan II	9.837	1119768	0.010	0.010
23) 4,4'-DDT	10.217	974268	0.009	0.009
25) Endrin aldehyde	10.590	900722	0.010	0.010
27) Methoxychlor	11.114	505491	0.010	0.010
28) Endosulfan sulfate	11.290	967597	0.010	0.010
29) Endrin ketone	11.685	1176748	0.010	0.010
30) Decachlorobiphenyl	13.238	1150521	0.010	0.010

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Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\005F0501.D
Lab Smp Id: AB3 G252
Inj Date : 09-MAR-2010 10:33
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,1,3
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 10:33 Cal File: 005F0501.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.797	3.799	-0.002	2093840	0.02500	0.02680		
4 alpha-BHC						CAS #: 319-84-6	
4.500	4.499	0.001	3358748	0.02500	0.02833		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.923	4.923	0.000	4025198	0.02500	0.02755		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	976842	0.02500	0.02560		
7 delta-BHC						CAS #: 319-86-8	
5.318	5.319	-0.001	3999341	0.02500	0.02856		
		Sum of Peak Amounts =			0.02856		
8 Heptachlor						CAS #: 76-44-8	
5.643	5.644	-0.001	1901751	0.02500	0.02801		
10 Aldrin						CAS #: 309-00-2	
6.172	6.170	0.002	3783628	0.02500	0.02670		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.609	7.609	0.000	1148537	0.02500	0.02686		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.908	7.909	-0.001	1202594	0.02500	0.02717		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.222	8.223	-0.001	1236800	0.02500	0.02681		

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   15 Endosulfan I                                CAS #: 959-98-8
8.478    8.477    0.001         1197613 0.02500  0.02693
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.547	8.548	-0.001	3208567	0.02500	0.02746		
17 Dieldrin					CAS #: 60-57-1		
8.989	8.989	0.000	3448382	0.02500	0.02730		
18 Endrin					CAS #: 72-20-8		
9.414	9.414	0.000	1295617	0.02500	0.02782		
20 4,4'-DDD					CAS #: 72-54-8		
9.727	9.727	0.000	2444033	0.02500	0.02830		
22 Endosulfan II					CAS #: 33213-65-9		
9.836	9.836	0.000	1273929	0.02500	0.02716		
23 4,4'-DDT					CAS #: 50-29-3		
10.217	10.217	0.000	2680557	0.02500	0.02809		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.590	10.590	0.000	1057684	0.02500	0.02663		
27 Methoxychlor					CAS #: 72-43-5		
11.113	11.114	-0.001	1351017	0.02500	0.02701		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.291	11.291	0.000	2586498	0.02500	0.02703		
29 Endrin ketone					CAS #: 53494-70-5		
11.684	11.684	0.000	1560320	0.02500	0.02720		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.239	13.239	0.000	1396999	0.02500	0.02556		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\005F0501.D

Date : 09-MAR-2010 10:33

Client ID:

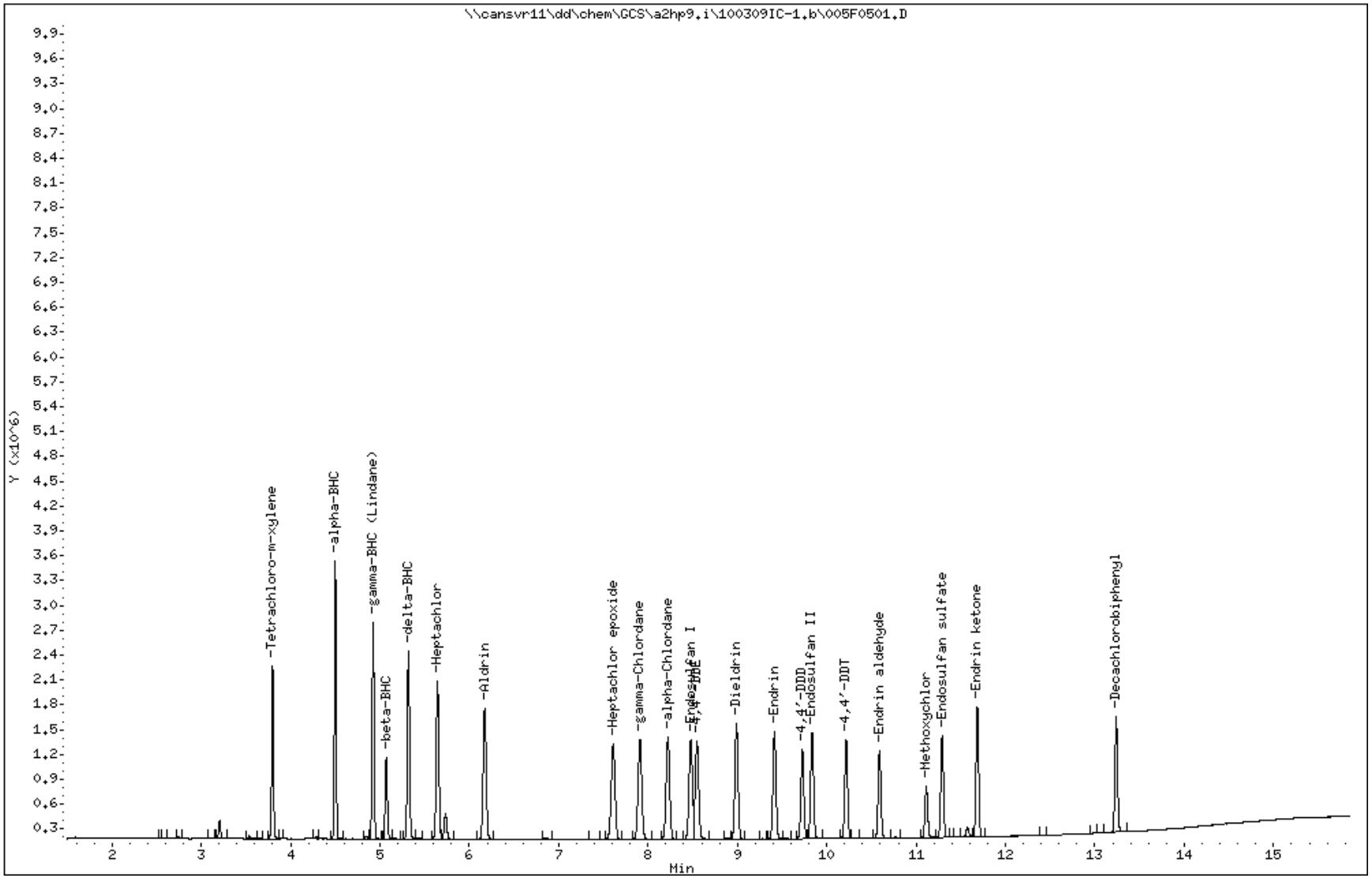
Instrument: a2hp9.i

Sample Info: AB3 G252,,1,3

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 10:33
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/005F0501.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.798	2764961	0.027	0.027
4) alpha-BHC	4.500	4544173	0.028	0.028
5) gamma-BHC (Lindane)	4.924	4025198	0.028	0.028
6) beta-BHC	5.070	1655600	0.026	0.026
7) delta-BHC	5.319	3999341	0.029	0.029
8) Heptachlor	5.644	3867602	0.028	0.028
10) Aldrin	6.172	3783628	0.027	0.027
12) Heptachlor epoxide	7.610	3447413	0.027	0.027
13) gamma-Chlordane	7.909	3475887	0.027	0.027
14) alpha-Chlordane	8.222	3449884	0.027	0.027
15) Endosulfan I	8.479	3246085	0.027	0.027
16) 4,4'-DDE	8.547	3208567	0.027	0.027
17) Dieldrin	8.990	3448382	0.027	0.027
18) Endrin	9.415	3122498	0.028	0.028
20) 4,4'-DDD	9.728	2444033	0.028	0.028
22) Endosulfan II	9.836	2983405	0.027	0.027
23) 4,4'-DDT	10.217	2680557	0.028	0.028
25) Endrin aldehyde	10.590	2366791	0.027	0.027
27) Methoxychlor	11.114	1351017	0.027	0.027
28) Endosulfan sulfate	11.291	2586498	0.027	0.027
29) Endrin ketone	11.685	3163971	0.027	0.027
30) Decachlorobiphenyl	13.240	2875349	0.026	0.026

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\006F0601.D
Lab Smp Id: AB4 G253
Inj Date : 09-MAR-2010 10:57
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB4 G253,,1,4
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 10:57 Cal File: 006F0601.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.797	3.799	-0.002	4095130	0.05000	0.05179		
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	6750721	0.05000	0.05504		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.923	4.923	0.000	8268213	0.05000	0.05478		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	1931725	0.05000	0.05047		
7 delta-BHC						CAS #: 319-86-8	
5.318	5.319	-0.001	8281455	0.05000	0.05655		
		Sum of Peak Amounts =			0.05655		
8 Heptachlor						CAS #: 76-44-8	
5.643	5.644	-0.001	3788643	0.05000	0.05422		
10 Aldrin						CAS #: 309-00-2	
6.170	6.170	0.000	7781333	0.05000	0.05360		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.607	7.609	-0.002	2292032	0.05000	0.05265		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.909	7.909	0.000	2449335	0.05000	0.05390		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.220	8.223	-0.003	2517781	0.05000	0.05335		

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   15 Endosulfan I                                CAS #: 959-98-8
8.476    8.477   -0.001         2403437 0.05000  0.05297
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
	16 4,4'-DDE				CAS #: 72-55-9		
8.546	8.548	-0.002	6675479	0.05000	0.05517		
	17 Dieldrin				CAS #: 60-57-1		
8.989	8.989	0.000	7170381	0.05000	0.05492		
	18 Endrin				CAS #: 72-20-8		
9.414	9.414	0.000	2653412	0.05000	0.05505		
	20 4,4'-DDD				CAS #: 72-54-8		
9.726	9.727	-0.001	5129769	0.05000	0.05673		
	22 Endosulfan II				CAS #: 33213-65-9		
9.835	9.836	-0.001	2622091	0.05000	0.05430		
	23 4,4'-DDT				CAS #: 50-29-3		
10.215	10.217	-0.002	5555232	0.05000	0.05592		
	25 Endrin aldehyde				CAS #: 7421-93-4		
10.590	10.590	0.000	2193348	0.05000	0.05381		
	27 Methoxychlor				CAS #: 72-43-5		
11.112	11.114	-0.002	2637316	0.05000	0.05201		
	28 Endosulfan sulfate				CAS #: 1031-07-8		
11.290	11.291	-0.001	5257076	0.05000	0.05362		
	29 Endrin ketone				CAS #: 53494-70-5		
11.684	11.684	0.000	3151744	0.05000	0.05362		
$	30 Decachlorobiphenyl				CAS #: 2051-24-3		
13.238	13.239	-0.001	2805341	0.05000	0.05099		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\006F0601.D

Date : 09-MAR-2010 10:57

Client ID:

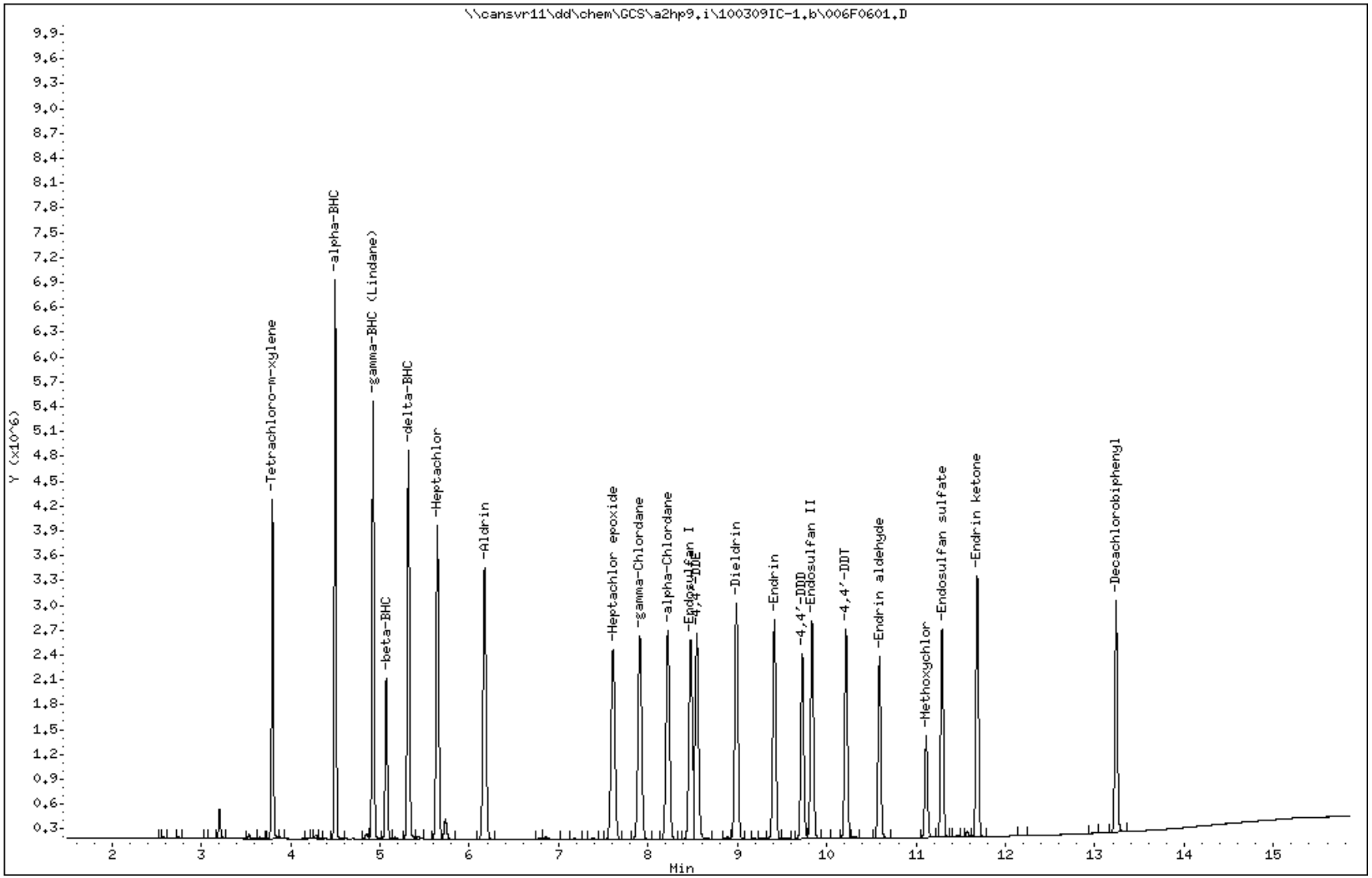
Instrument: a2hp9.i

Sample Info: AB4 G253,,1,4

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 10:57
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/006F0601.D
Lab Sample ID: AB4 G253
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.798	5456564	0.052	0.052
4) alpha-BHC	4.499	9244307	0.055	0.055
5) gamma-BHC (Lindane)	4.923	8268213	0.055	0.055
6) beta-BHC	5.070	3247208	0.050	0.050
7) delta-BHC	5.318	8281455	0.057	0.057
8) Heptachlor	5.643	7752799	0.054	0.054
10) Aldrin	6.171	7781333	0.054	0.054
12) Heptachlor epoxide	7.608	6973384	0.053	0.053
13) gamma-Chlordane	7.909	7103876	0.054	0.054
14) alpha-Chlordane	8.221	6985762	0.053	0.053
15) Endosulfan I	8.477	6557467	0.053	0.053
16) 4,4'-DDE	8.547	6675479	0.055	0.055
17) Dieldrin	8.989	7170381	0.055	0.055
18) Endrin	9.414	6394570	0.055	0.055
20) 4,4'-DDD	9.727	5129769	0.057	0.057
22) Endosulfan II	9.836	6135091	0.054	0.054
23) 4,4'-DDT	10.215	5555232	0.056	0.056
25) Endrin aldehyde	10.591	4805737	0.054	0.054
27) Methoxychlor	11.113	2637316	0.052	0.052
28) Endosulfan sulfate	11.290	5257076	0.054	0.054
29) Endrin ketone	11.684	6455242	0.054	0.054
30) Decachlorobiphenyl	13.238	5583704	0.051	0.051

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\007F0701.D
Lab Smp Id: AB5 G254
Inj Date : 09-MAR-2010 11:20
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB5 G254,,1,5
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 11:20 Cal File: 007F0701.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.798	3.799	-0.001	8526406	0.10000	0.1062		
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	13829411	0.10000	0.1099		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.923	4.923	0.000	17244333	0.10000	0.1111		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	3996551	0.10000	0.1035		
7 delta-BHC						CAS #: 319-86-8	
5.318	5.319	-0.001	17195200	0.10000	0.1135		
Sum of Peak Amounts =					0.11350		
8 Heptachlor						CAS #: 76-44-8	
5.643	5.644	-0.001	7736939	0.10000	0.1084		
10 Aldrin						CAS #: 309-00-2	
6.171	6.170	0.001	16467307	0.10000	0.1105		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.608	7.609	-0.001	4704123	0.10000	0.1063		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.908	7.909	-0.001	5096775	0.10000	0.1095		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.222	8.223	-0.001	5156247	0.10000	0.1073		

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   15 Endosulfan I                                CAS #: 959-98-8
8.477    8.477    0.000         4829363 0.10000   0.1051
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
8.546	8.548	-0.002	13695254	0.10000	0.1103		
17 Dieldrin						CAS #: 60-57-1	
8.989	8.989	0.000	14462448	0.10000	0.1084		
18 Endrin						CAS #: 72-20-8	
9.413	9.414	-0.001	5248763	0.10000	0.1070		
20 4,4'-DDD						CAS #: 72-54-8	
9.725	9.727	-0.002	10227326	0.10000	0.1102		
22 Endosulfan II						CAS #: 33213-65-9	
9.835	9.836	-0.001	5053758	0.10000	0.1037		
23 4,4'-DDT						CAS #: 50-29-3	
10.216	10.217	-0.001	10973860	0.10000	0.1082		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.589	10.590	-0.001	4193519	0.10000	0.1023		
27 Methoxychlor						CAS #: 72-43-5	
11.113	11.114	-0.001	4919410	0.10000	0.09760		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.290	11.291	-0.001	10162054	0.10000	0.1029		
29 Endrin ketone						CAS #: 53494-70-5	
11.684	11.684	0.000	5938405	0.10000	0.1008		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.238	13.239	-0.001	5146857	0.10000	0.09477		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\007F0701.D

Date : 09-MAR-2010 11:20

Client ID:

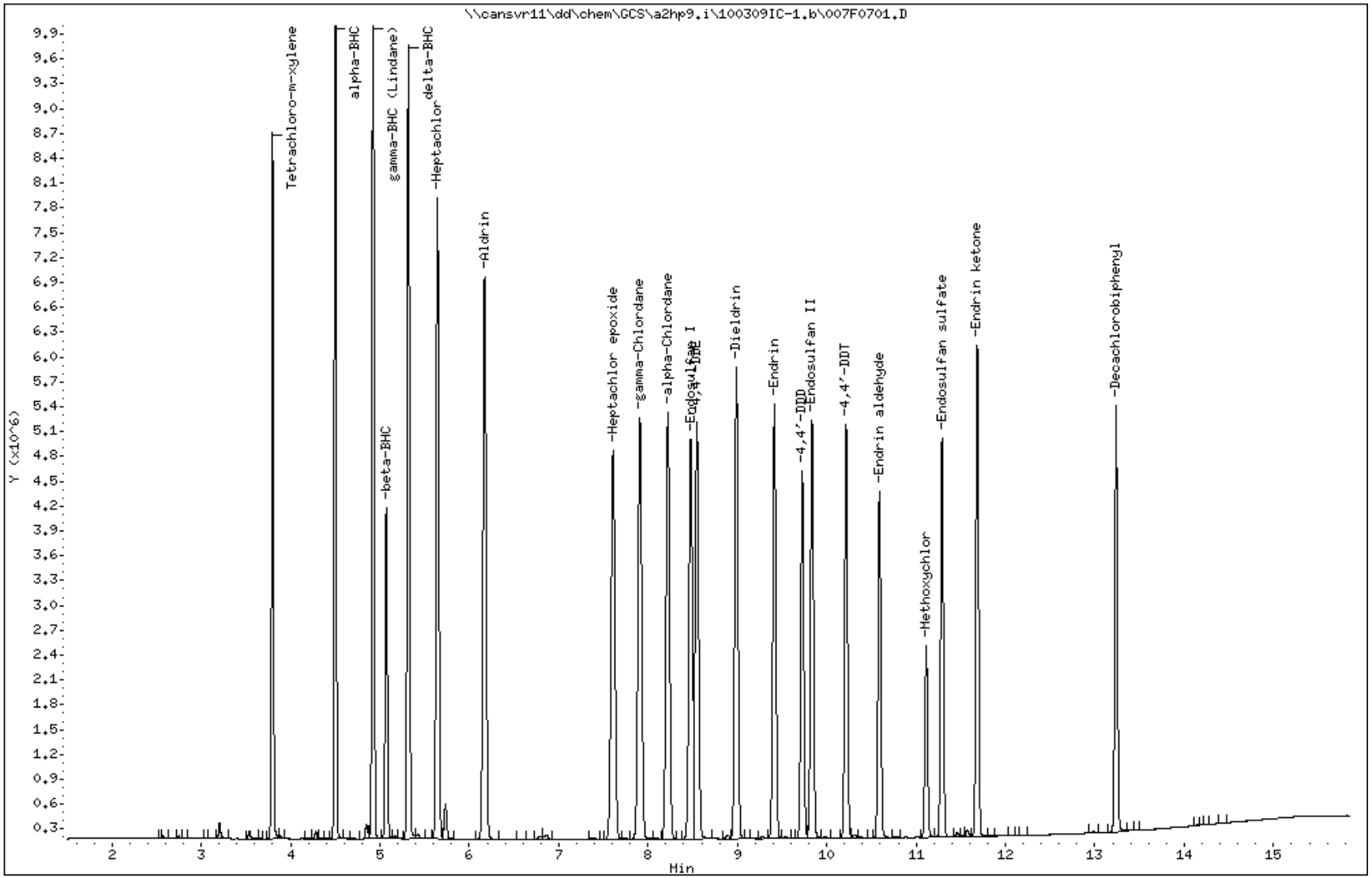
Instrument: a2hp9.i

Sample Info: AB5 G254,,1,5

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 11:20
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/007F0701.D
Lab Sample ID: AB5 G254
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.798	11319764	0.106	0.106
4) alpha-BHC	4.500	19422470	0.110	0.110
5) gamma-BHC (Lindane)	4.923	17244333	0.111	0.111
6) beta-BHC	5.071	6615929	0.103	0.103
7) delta-BHC	5.318	17195200	0.113	0.113
8) Heptachlor	5.644	16066169	0.108	0.108
10) Aldrin	6.171	16467307	0.110	0.110
12) Heptachlor epoxide	7.609	14274066	0.106	0.106
13) gamma-Chlordane	7.909	14813013	0.110	0.110
14) alpha-Chlordane	8.222	14398840	0.107	0.107
15) Endosulfan I	8.477	13216095	0.105	0.105
16) 4,4'-DDE	8.546	13695254	0.110	0.110
17) Dieldrin	8.990	14462448	0.108	0.108
18) Endrin	9.414	12759960	0.107	0.107
20) 4,4'-DDD	9.726	10227326	0.110	0.110
22) Endosulfan II	9.836	11924650	0.104	0.104
23) 4,4'-DDT	10.216	10973860	0.108	0.108
25) Endrin aldehyde	10.590	9258647	0.102	0.102
27) Methoxychlor	11.114	4919410	0.098	0.098
28) Endosulfan sulfate	11.291	10162054	0.103	0.103
29) Endrin ketone	11.685	12279529	0.101	0.101
30) Decachlorobiphenyl	13.238	10217972	0.095	0.095

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\008F0801.D
Lab Smp Id: AB6 G255
Inj Date : 09-MAR-2010 11:44
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB6 G255,,1,6
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 11:44 Cal File: 008F0801.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.797	3.799	-0.002	16993644	0.20000	0.2096		
4 alpha-BHC						CAS #: 319-84-6	
4.500	4.499	0.001	28014800	0.20000	0.2186		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.923	4.923	0.000	35230987	0.20000	0.2220		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	8064260	0.20000	0.2073		
7 delta-BHC						CAS #: 319-86-8	
5.318	5.319	-0.001	35641643	0.20000	0.2285		
Sum of Peak Amounts =					0.22850		
8 Heptachlor						CAS #: 76-44-8	
5.643	5.644	-0.001	15564724	0.20000	0.2148		
10 Aldrin						CAS #: 309-00-2	
6.171	6.170	0.001	33535775	0.20000	0.2204		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.609	7.609	0.000	9463187	0.20000	0.2115		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.911	7.909	0.002	10487796	0.20000	0.2207		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.222	8.223	-0.001	10717498	0.20000	0.2188		

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   15 Endosulfan I                                CAS #: 959-98-8
8.478    8.477    0.001         9717149 0.20000   0.2094
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.546	8.548	-0.002	29178734	0.20000	0.2283		
17 Dieldrin					CAS #: 60-57-1		
8.990	8.989	0.001	30072629	0.20000	0.2208		
18 Endrin					CAS #: 72-20-8		
9.414	9.414	0.000	10719611	0.20000	0.2152		
20 4,4'-DDD					CAS #: 72-54-8		
9.726	9.727	-0.001	22256171	0.20000	0.2321		
22 Endosulfan II					CAS #: 33213-65-9		
9.835	9.836	-0.001	10347085	0.20000	0.2101		
23 4,4'-DDT					CAS #: 50-29-3		
10.216	10.217	-0.001	24152835	0.20000	0.2308		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.589	10.590	-0.001	8739103	0.20000	0.2109		
27 Methoxychlor					CAS #: 72-43-5		
11.114	11.114	0.000	10358250	0.20000	0.2046		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.292	11.291	0.001	21333205	0.20000	0.2132		
29 Endrin ketone					CAS #: 53494-70-5		
11.685	11.684	0.001	12268037	0.20000	0.2069		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.239	13.239	0.000	10713377	0.20000	0.1977		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\008F0801.D

Page 1

Date : 09-MAR-2010 11:44

Client ID:

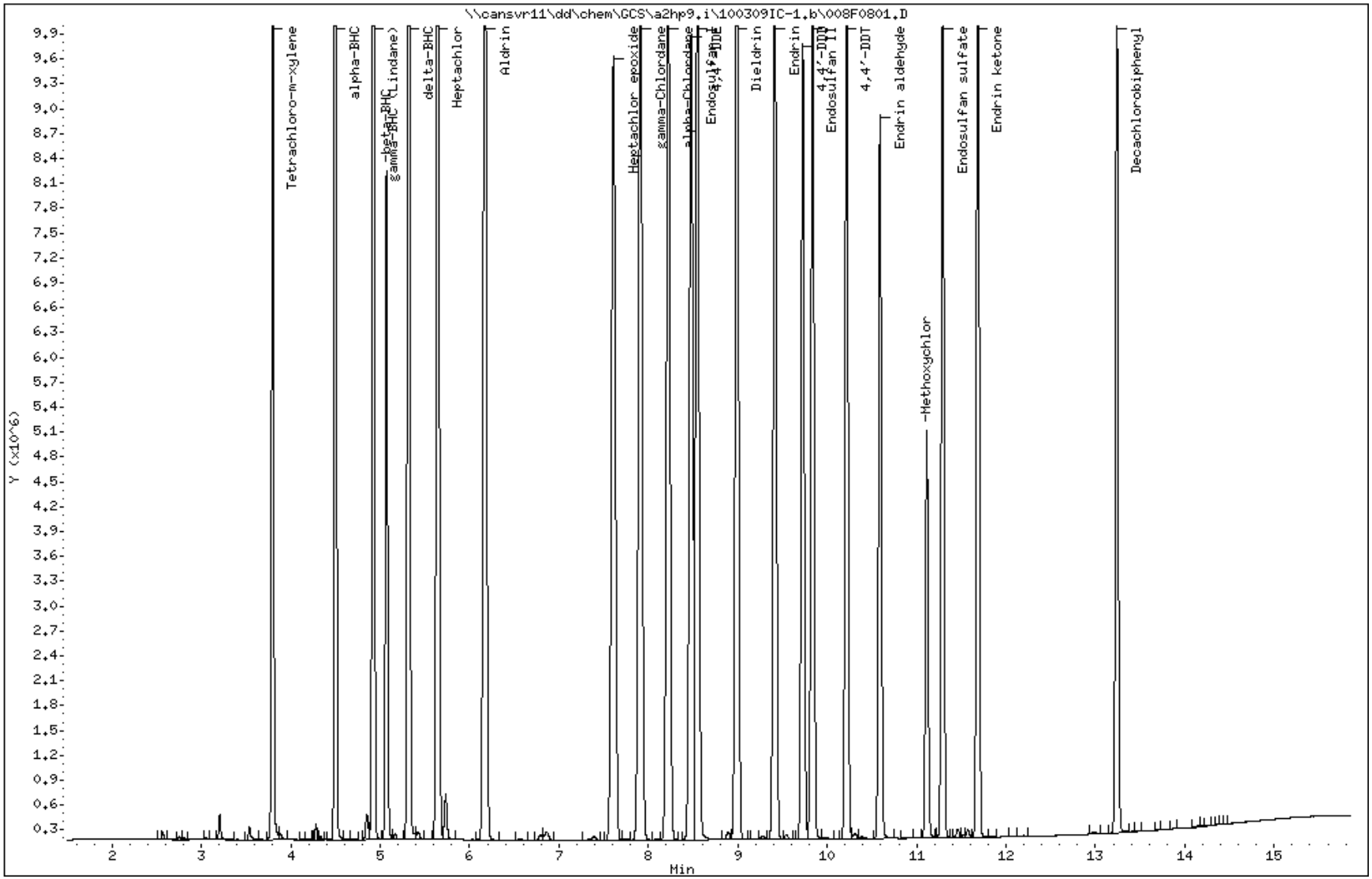
Instrument: a2hp9.i

Sample Info: AB6 G255,,1,6

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 11:44
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/008F0801.D
Lab Sample ID: AB6 G255
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.798	22661500	0.210	0.210
4) alpha-BHC	4.500	39456421	0.219	0.219
5) gamma-BHC (Lindane)	4.923	35230987	0.222	0.222
6) beta-BHC	5.070	13501851	0.207	0.207
7) delta-BHC	5.318	35641643	0.228	0.228
8) Heptachlor	5.643	32557822	0.215	0.215
10) Aldrin	6.172	33535775	0.220	0.220
12) Heptachlor epoxide	7.609	29200862	0.211	0.211
13) gamma-Chlordane	7.912	31017424	0.221	0.221
14) alpha-Chlordane	8.223	30062927	0.219	0.219
15) Endosulfan I	8.478	27356537	0.209	0.209
16) 4,4'-DDE	8.547	29178734	0.228	0.228
17) Dieldrin	8.990	30072629	0.221	0.221
18) Endrin	9.414	26623850	0.215	0.215
20) 4,4'-DDD	9.727	22256171	0.232	0.232
22) Endosulfan II	9.836	24852364	0.210	0.210
23) 4,4'-DDT	10.217	24152835	0.231	0.231
25) Endrin aldehyde	10.589	19383379	0.211	0.211
27) Methoxychlor	11.114	10358250	0.205	0.205
28) Endosulfan sulfate	11.293	21333205	0.213	0.213
29) Endrin ketone	11.685	25555339	0.207	0.207
30) Decachlorobiphenyl	13.239	21155648	0.198	0.198

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 09-MAR-2010 12:09
Lab File ID: 009F0901.D Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 11:44
Lab Sample ID: ICV E048 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	81090080	++++	++++	0.000	++++	15.00000	Averaged	<-
4 alpha-BHC	128169275	145875400	145875400	0.010	-13.81464	15.00000	Averaged	
5 gamma-BHC (Lindane)	158714774	167738920	167738920	0.010	-5.68576	15.00000	Averaged	
6 beta-BHC	38898715	43307880	43307880	0.010	-11.33499	15.00000	Averaged	
7 delta-BHC	155983743	175192000	175192000	0.010	-12.31427	15.00000	Averaged	
8 Heptachlor	72446535	81793200	81793200	0.010	-12.90147	15.00000	Averaged	
10 Aldrin	152173471	158017120	158017120	0.010	-3.84012	15.00000	Averaged	
12 Heptachlor epoxide	44748664	49525160	49525160	0.010	-10.67405	15.00000	Averaged	
13 gamma-Chlordane	47525948	51672600	51672600	0.010	-8.72503	15.00000	Averaged	
14 alpha-Chlordane	48985463	53976280	53976280	0.010	-10.18836	15.00000	Averaged	
15 Endosulfan I	46396156	51434360	51434360	0.010	-10.85910	15.00000	Averaged	
16 4,4'-DDE	127811028	134898440	134898440	0.010	-5.54523	15.00000	Averaged	
17 Dieldrin	136210438	149217800	149217800	0.010	-9.54946	15.00000	Averaged	
18 Endrin	49813351	55423480	55423480	0.010	-11.26230	15.00000	Averaged	
20 4,4'-DDD	95872953	103737560	103737560	0.010	-8.20316	15.00000	Averaged	
22 Endosulfan II	49240798	53343480	53343480	0.010	-8.33188	15.00000	Averaged	
23 4,4'-DDT	104646849	106834800	106834800	0.010	-2.09079	15.00000	Averaged	
25 Endrin aldehyde	41443938	42997840	42997840	0.010	-3.74941	15.00000	Averaged	
27 Methoxychlor	50633542	53222280	53222280	0.010	-5.11269	15.00000	Averaged	
28 Endosulfan sulfate	100076584	107745800	107745800	0.010	-7.66335	15.00000	Averaged	
29 Endrin ketone	59304453	61170600	61170600	0.010	-3.14672	15.00000	Averaged	
$ 30 Decachlorobiphenyl	54184156	++++	0.00000	0.010	++++	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 8.24964
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\009F0901.D
Lab Smp Id: ICV E048
Inj Date : 09-MAR-2010 12:09
Operator : 093905 Inst ID: a2hp9.i
Smp Info : ICV E048
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 09:45 Cal File: 003F0301.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
Peaks not detected for Quant. or Qual. signal(s).							
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	3646885	0.02500	0.02845		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.923	4.923	0.000	4193473	0.02500	0.02642		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	1082697	0.02500	0.02783		
7 delta-BHC						CAS #: 319-86-8	
5.319	5.319	0.000	4379800	0.02500	0.02808		
		Sum of Peak Amounts =			0.02808		
8 Heptachlor						CAS #: 76-44-8	
5.644	5.644	0.000	2044830	0.02500	0.02822		
10 Aldrin						CAS #: 309-00-2	
6.170	6.170	0.000	3950428	0.02500	0.02596		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.609	7.609	0.000	1238129	0.02500	0.02767		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.909	7.909	0.000	1291815	0.02500	0.02718		

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   14 alpha-Chlordane                            CAS #: 5103-71-9
8.223    8.223    0.000         1349407 0.02500  0.02755
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RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
8.477	8.477	0.000	1285859	0.02500	0.02771		
16 4,4'-DDE					CAS #: 72-55-9		
8.548	8.548	0.000	3372461	0.02500	0.02639		
17 Dieldrin					CAS #: 60-57-1		
8.989	8.989	0.000	3730445	0.02500	0.02739		
18 Endrin					CAS #: 72-20-8		
9.414	9.414	0.000	1385587	0.02500	0.02782		
20 4,4'-DDD					CAS #: 72-54-8		
9.727	9.727	0.000	2593439	0.02500	0.02705		
22 Endosulfan II					CAS #: 33213-65-9		
9.836	9.836	0.000	1333587	0.02500	0.02708		
23 4,4'-DDT					CAS #: 50-29-3		
10.217	10.217	0.000	2670870	0.02500	0.02552		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.590	10.590	0.000	1074946	0.02500	0.02594		
27 Methoxychlor					CAS #: 72-43-5		
11.114	11.114	0.000	1330557	0.02500	0.02628		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.291	11.291	0.000	2693645	0.02500	0.02692		
29 Endrin ketone					CAS #: 53494-70-5		
11.684	11.684	0.000	1529265	0.02500	0.02579		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\009F0901.D

Date : 09-MAR-2010 12:09

Client ID:

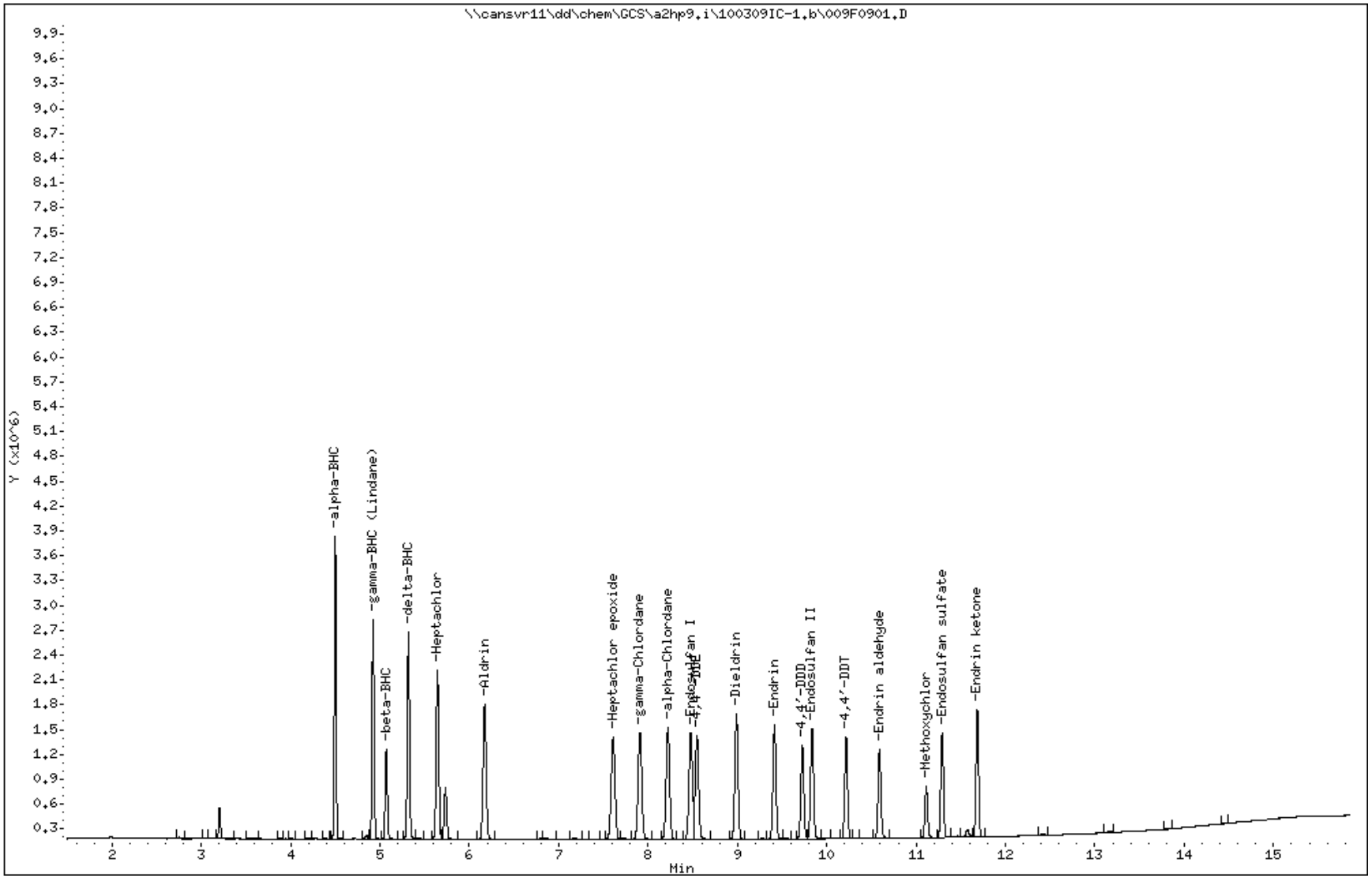
Instrument: a2hp9.i

Sample Info: ICV E048

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 12:09
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/009F0901.D
Lab Sample ID: ICV E048
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 3.799		
4) alpha-BHC	4.500	4960067	0.028	0.028
5) gamma-BHC (Lindane)	4.923	4193473	0.026	0.026
6) beta-BHC	5.071	1805933	0.028	0.028
7) delta-BHC	5.319	4379800	0.028	0.028
8) Heptachlor	5.644	4161303	0.028	0.028
10) Aldrin	6.171	3950428	0.026	0.026
12) Heptachlor epoxide	7.609	3747223	0.028	0.028
13) gamma-Chlordane	7.910	3787541	0.027	0.027
14) alpha-Chlordane	8.223	3747356	0.028	0.028
15) Endosulfan I	8.477	3504828	0.028	0.028
16) 4,4'-DDE	8.548	3372461	0.026	0.026
17) Dieldrin	8.990	3730445	0.027	0.027
18) Endrin	9.415	3329568	0.028	0.028
20) 4,4'-DDD	9.727	2593439	0.027	0.027
22) Endosulfan II	9.837	3129854	0.027	0.027
23) 4,4'-DDT	10.217	2670870	0.026	0.026
25) Endrin aldehyde	10.591	2423054	0.026	0.026
27) Methoxychlor	11.114	1330557	0.026	0.026
28) Endosulfan sulfate	11.292	2693645	0.027	0.027
29) Endrin ketone	11.684	3104668	0.026	0.026
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 13.239		

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\010F1001.D
Lab Smp Id: TOX1 G268
Inj Date : 09-MAR-2010 12:34
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX1 G268,,1,1
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 12:34 Cal File: 010F1001.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.958	9.959	-0.001	337606	0.20000	0.2000	80.00- 120.00	100.00(M)
10.390	10.390	0.000	329621	0.20000	0.2000	114.04- 154.04	97.63
10.538	10.540	-0.002	293781	0.20000	0.2000	115.64- 155.64	87.02
11.100	11.101	-0.001	437364	0.20000	0.2000	52.78- 92.78	129.55
11.203	11.205	-0.002	398994	0.20000	0.2000	69.36- 109.36	118.18
		Average of Peak Amounts =			0.20000		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\010F1001.D

Page 1

Date : 09-MAR-2010 12:34

Client ID:

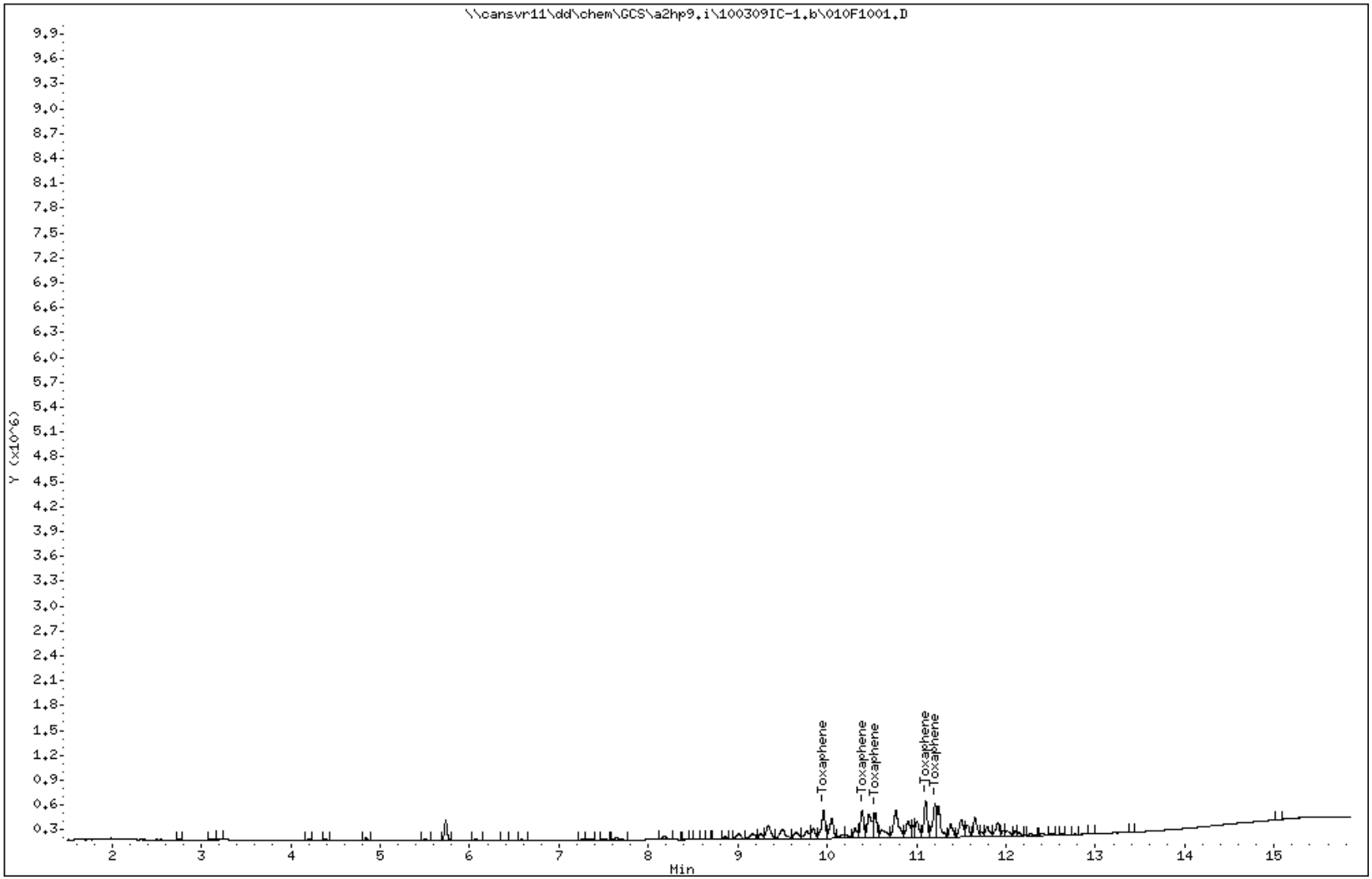
Instrument: a2hp9.i

Sample Info: TOX1 G268,,1,1

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

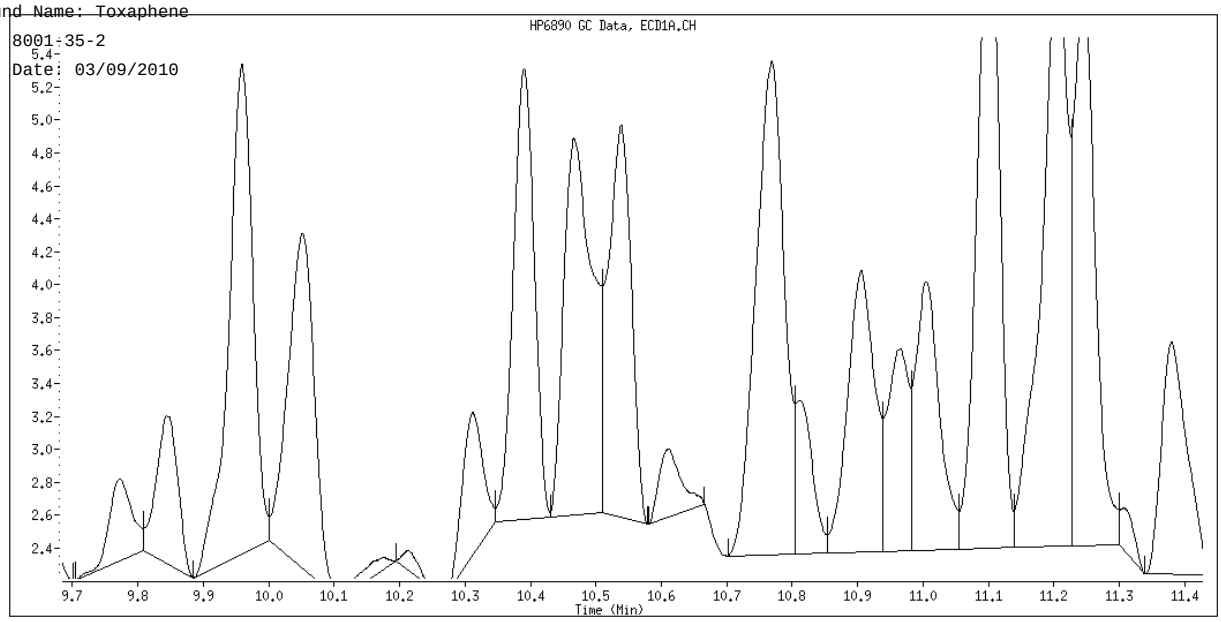


COMPOUNDS and EXP. RT REPORT

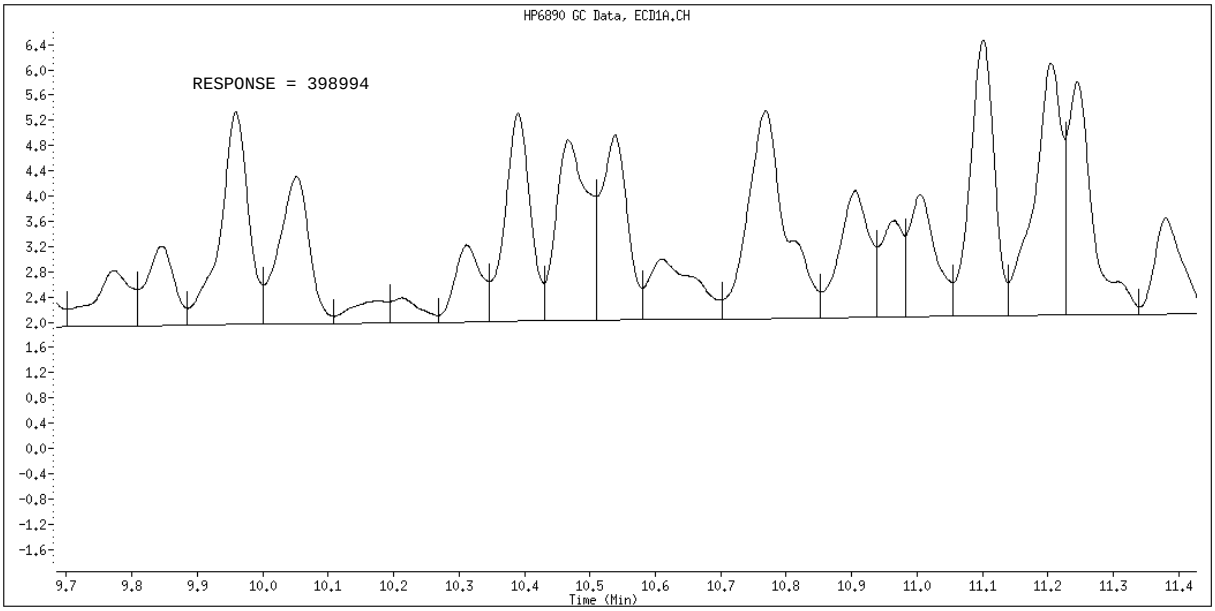
Operator: 093905 Date Acquired: 09-MAR-2010 12:34
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\010F1001.D
Lab Sample ID: TOX1 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.958	1018001	0.200	0.200

Data File Name: 010F1001.D
Inj. Date and Time: 09-MAR-2010 12:34
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\011F1101.D
Lab Smp Id: TOX2 G268
Inj Date : 09-MAR-2010 12:58
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX2 G268,,1,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 12:58 Cal File: 011F1101.D
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.958	9.959	-0.001	919965	0.50000	0.5280	80.00- 120.00	100.00(M)
10.389	10.390	-0.001	909995	0.50000	0.5316	114.04- 154.04	98.92
10.539	10.540	-0.001	804534	0.50000	0.5416	115.64- 155.64	87.45
11.100	11.101	-0.001	1183229	0.50000	0.5187	52.78- 92.78	128.62
11.203	11.205	-0.002	1106325	0.50000	0.5102	69.36- 109.36	120.26
		Average of Peak Amounts =			0.52602		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\011F1101.D

Page 1

Date : 09-MAR-2010 12:58

Client ID:

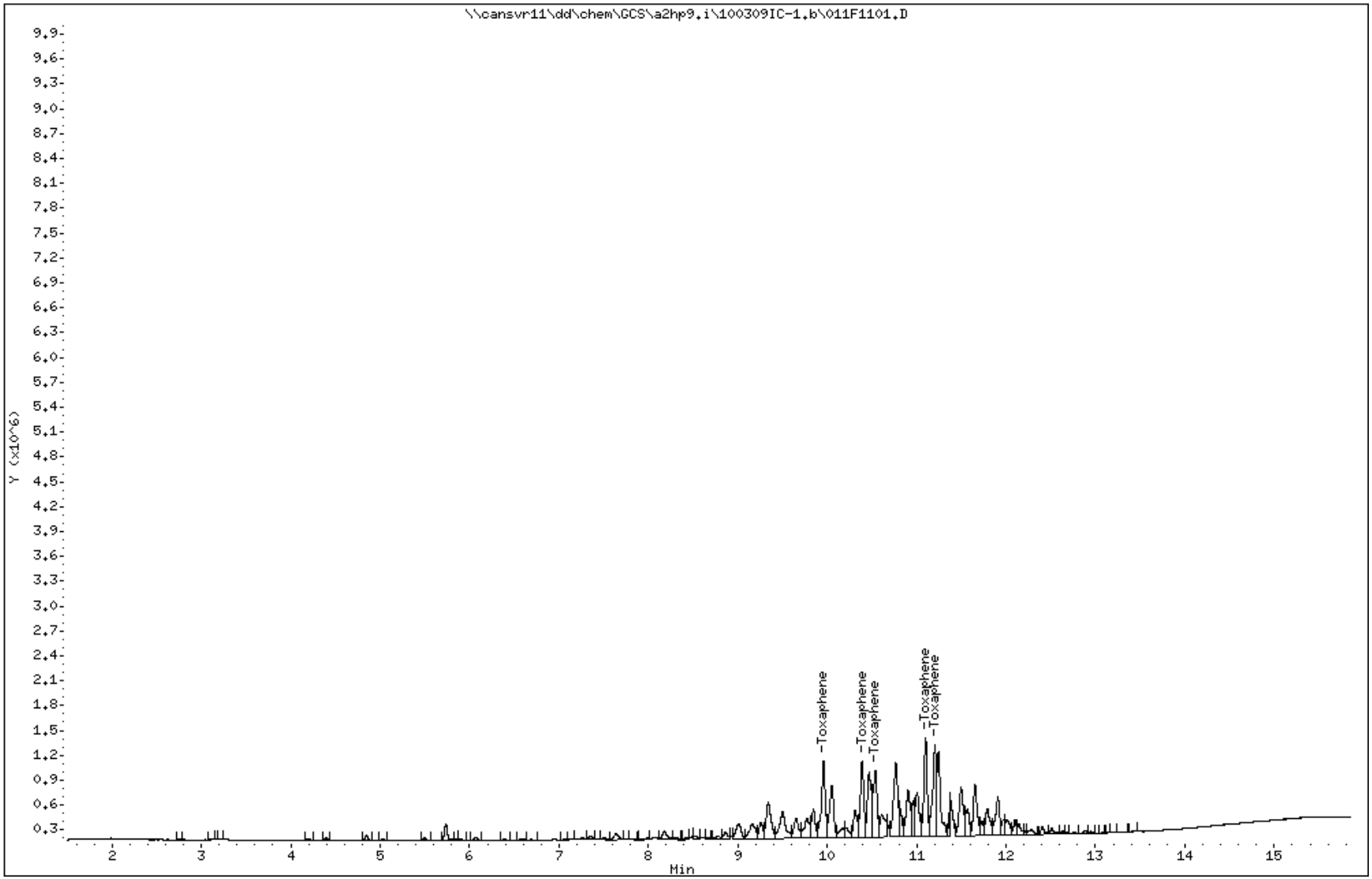
Instrument: a2hp9.i

Sample Info: TOX2 G268,,1,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

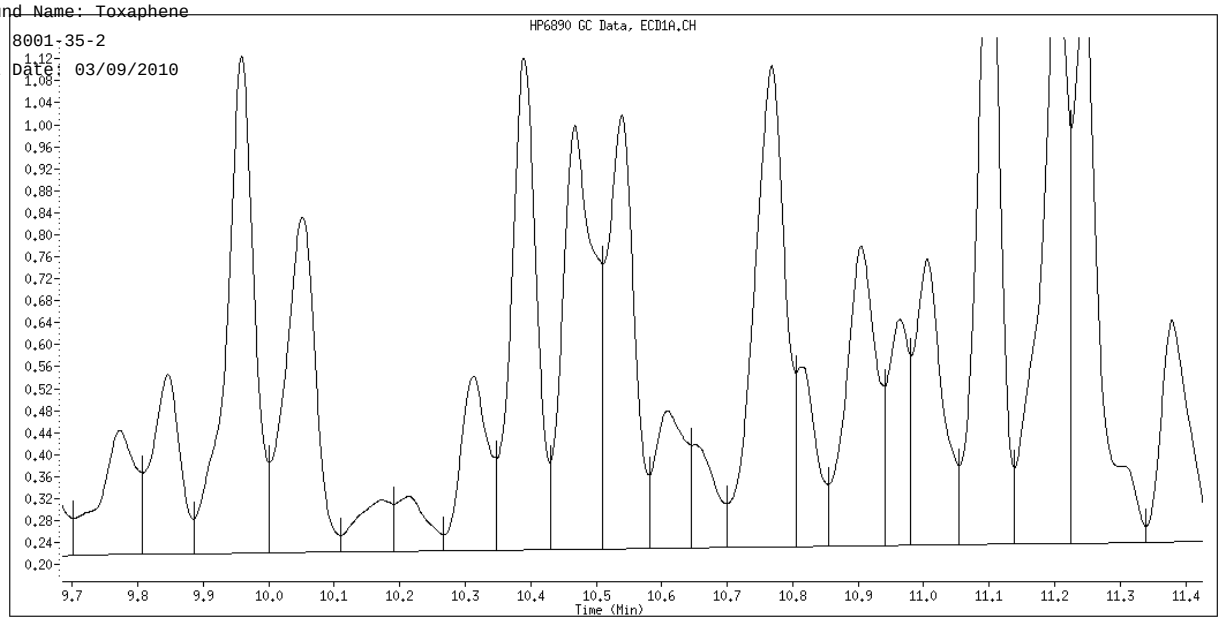


COMPOUNDS and EXP. RT REPORT

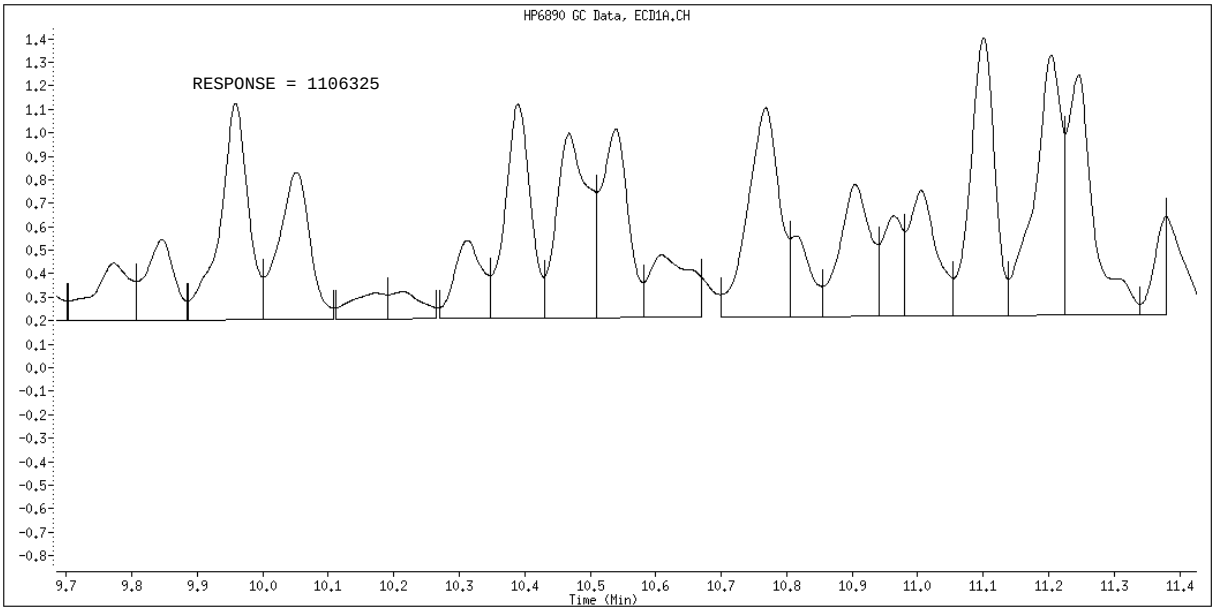
Operator: 093905 Date Acquired: 09-MAR-2010 12:58
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\011F1101.D
Lab Sample ID: TOX2 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.959	2796709	0.528	0.528

Data File Name: 011F1101.D
Inj. Date and Time: 09-MAR-2010 12:58
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\012F1201.D
Lab Smp Id: TOX3 G268
Inj Date : 09-MAR-2010 13:23
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,1,3
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:23 Cal File: 012F1201.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.958	9.959	-0.001	1715403	1.00000	0.9598	80.00- 120.00	100.00(M)
10.389	10.390	-0.001	1748994	1.00000	0.9861	114.04- 154.04	101.96
10.539	10.540	-0.001	1502518	1.00000	0.9718	115.64- 155.64	87.59
11.101	11.101	0.000	2171927	1.00000	0.9394	52.78- 92.78	126.61
11.204	11.205	-0.001	2096343	1.00000	0.9539	69.36- 109.36	122.21
		Average of Peak Amounts =			0.96220		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\012F1201.D

Page 1

Date : 09-MAR-2010 13:23

Client ID:

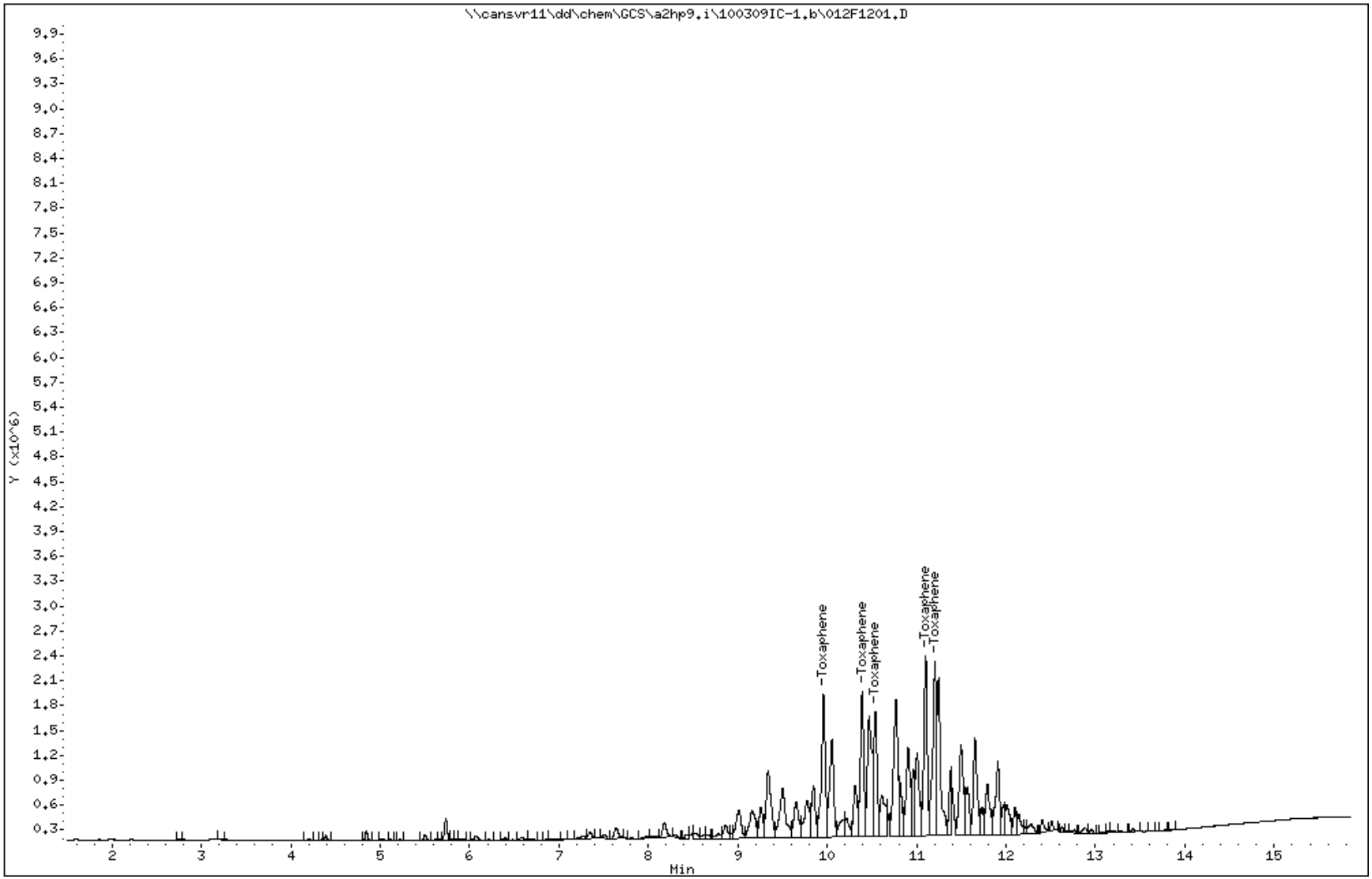
Instrument: a2hp9.i

Sample Info: TOX3 G268,,1,3

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

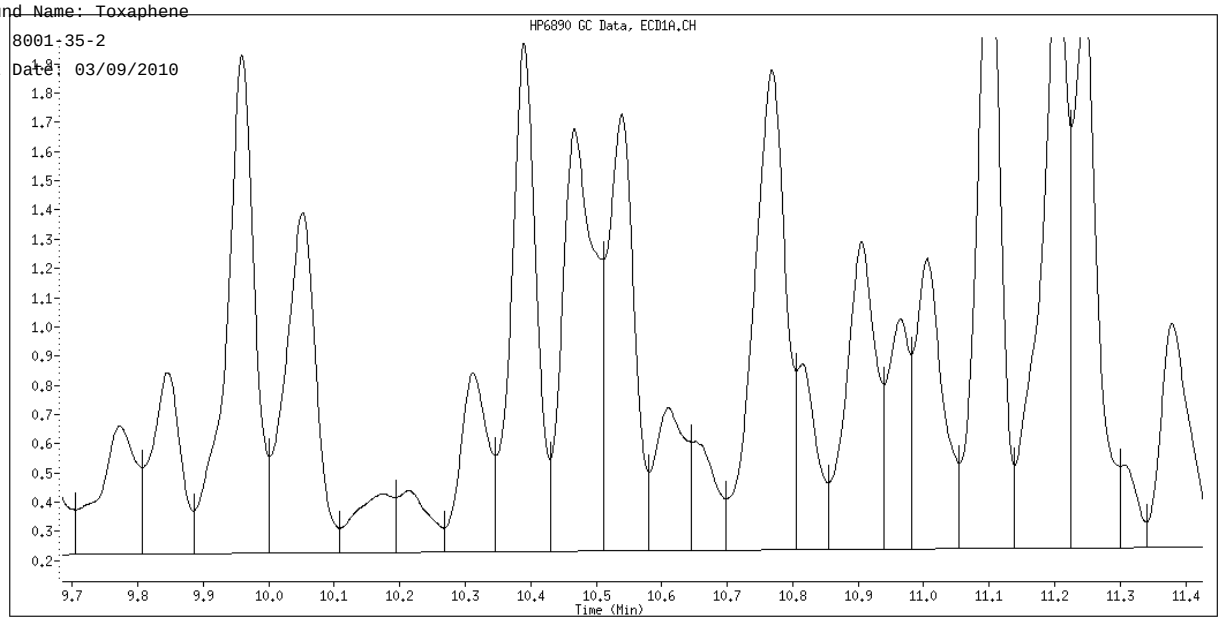


COMPOUNDS and EXP. RT REPORT

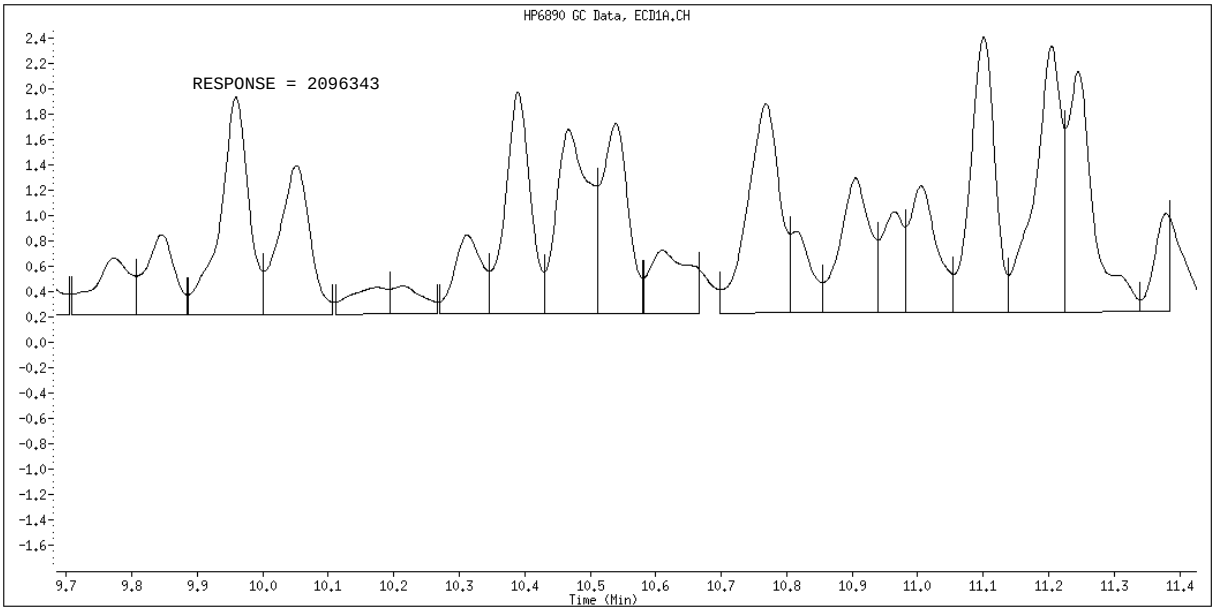
Operator: 093905 Date Acquired: 09-MAR-2010 13:23
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\012F1201.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.959	5245692	0.960	0.960

Data File Name: 012F1201.D
Inj. Date and Time: 09-MAR-2010 13:23
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

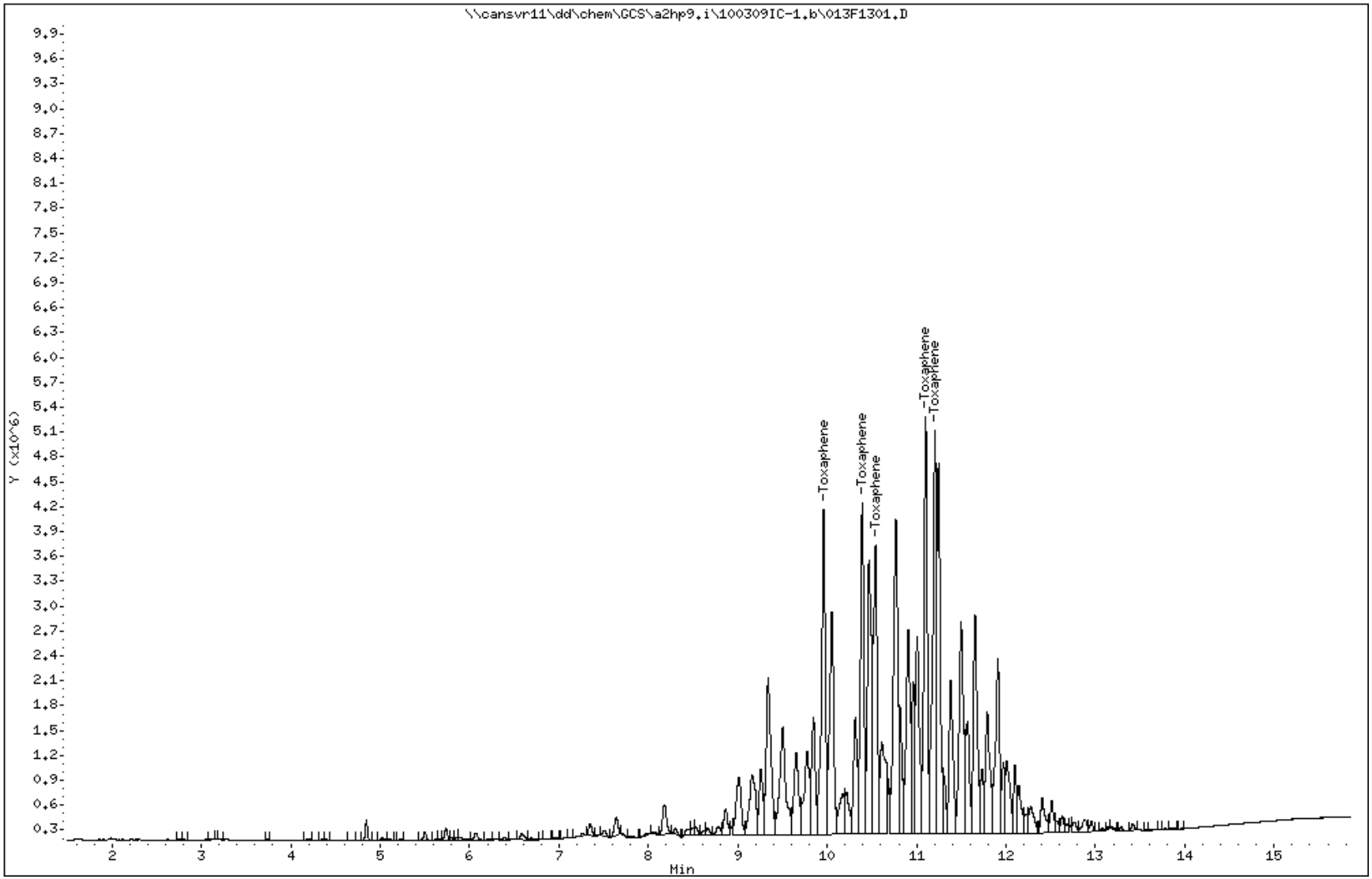
Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\013F1301.D
Lab Smp Id: TOX4 G268
Inj Date : 09-MAR-2010 13:48
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX4 G268,,1,4
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.959	9.959	0.000	3915021	2.00000	2.129	80.00- 120.00	100.00(M)
10.390	10.390	0.000	3993069	2.00000	2.166	114.04- 154.04	101.99
10.540	10.540	0.000	3478063	2.00000	2.154	115.64- 155.64	88.84
11.101	11.101	0.000	5035873	2.00000	2.142	52.78- 92.78	128.63
11.205	11.205	0.000	4857917	2.00000	2.173	69.36- 109.36	124.08
		Average of Peak Amounts =			2.15280		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\013F1301.D Page 1
Date : 09-MAR-2010 13:48
Client ID:
Sample Info: TOX4 G268,,1,4
Instrument: a2hp9.i
Operator: 093905
Column phase: clp pesticides I
Column diameter: 0.53

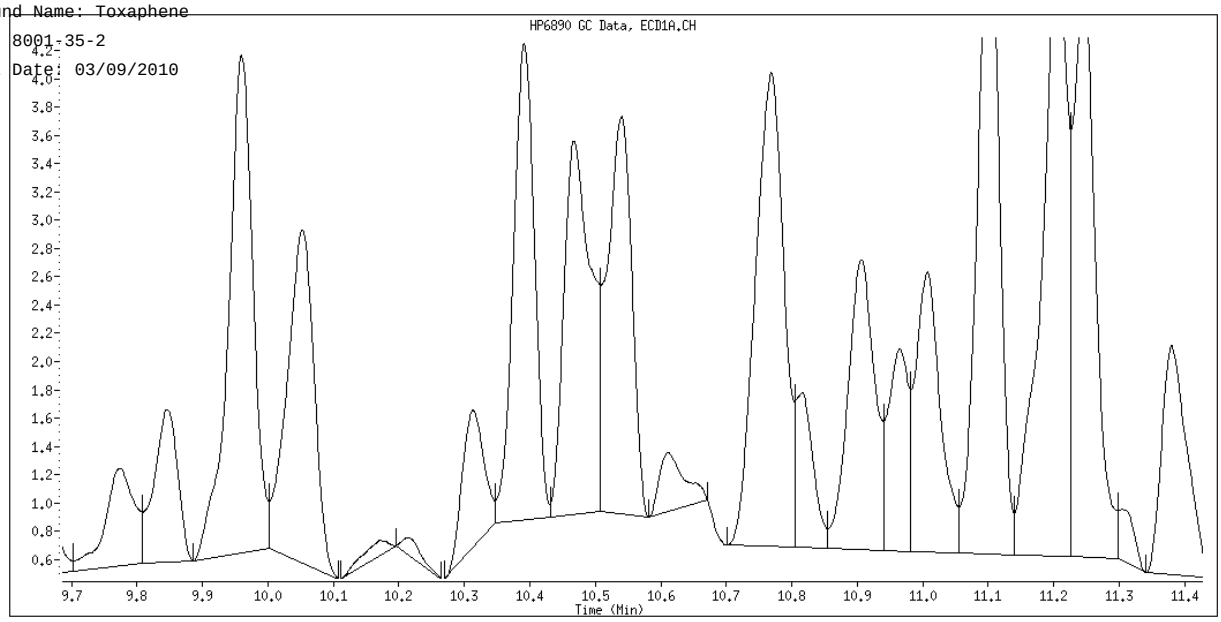


COMPOUNDS and EXP. RT REPORT

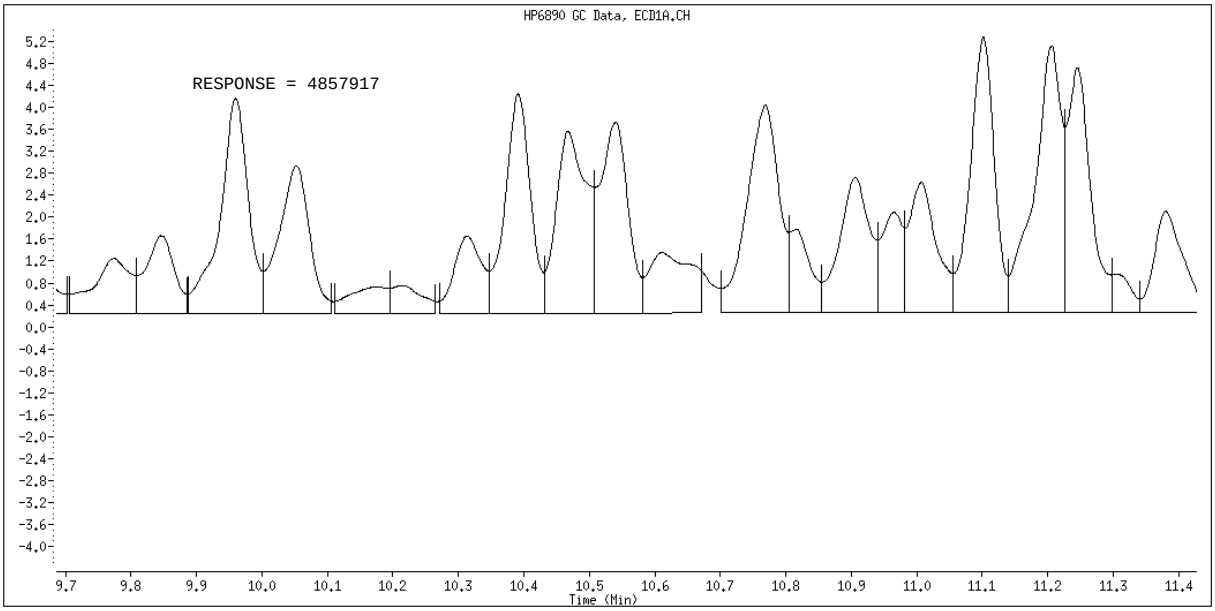
Operator: 093905 Date Acquired: 09-MAR-2010 13:48
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\013F1301.D
Lab Sample ID: TOX4 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.959	11893062	2.129	2.129

Data File Name: 013F1301.D
Inj. Date and Time: 09-MAR-2010 13:48
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\014F1401.D
Lab Smp Id: TOX5 G268
Inj Date : 09-MAR-2010 14:13
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX5 G268,,1,5
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:00 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.960	9.959	0.001	9967254	5.00000	5.420	80.00- 120.00	100.00
10.390	10.390	0.000	10024775	5.00000	5.437	114.04- 154.04	100.58
10.538	10.540	-0.002	8778592	5.00000	5.435	115.64- 155.64	88.07
11.101	11.101	0.000	12561150	5.00000	5.343	52.78- 92.78	126.02
11.205	11.205	0.000	12219841	5.00000	5.466	69.36- 109.36	122.60
		Average of Peak Amounts =			5.42020		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\014F1401.D

Page 1

Date : 09-MAR-2010 14:13

Client ID:

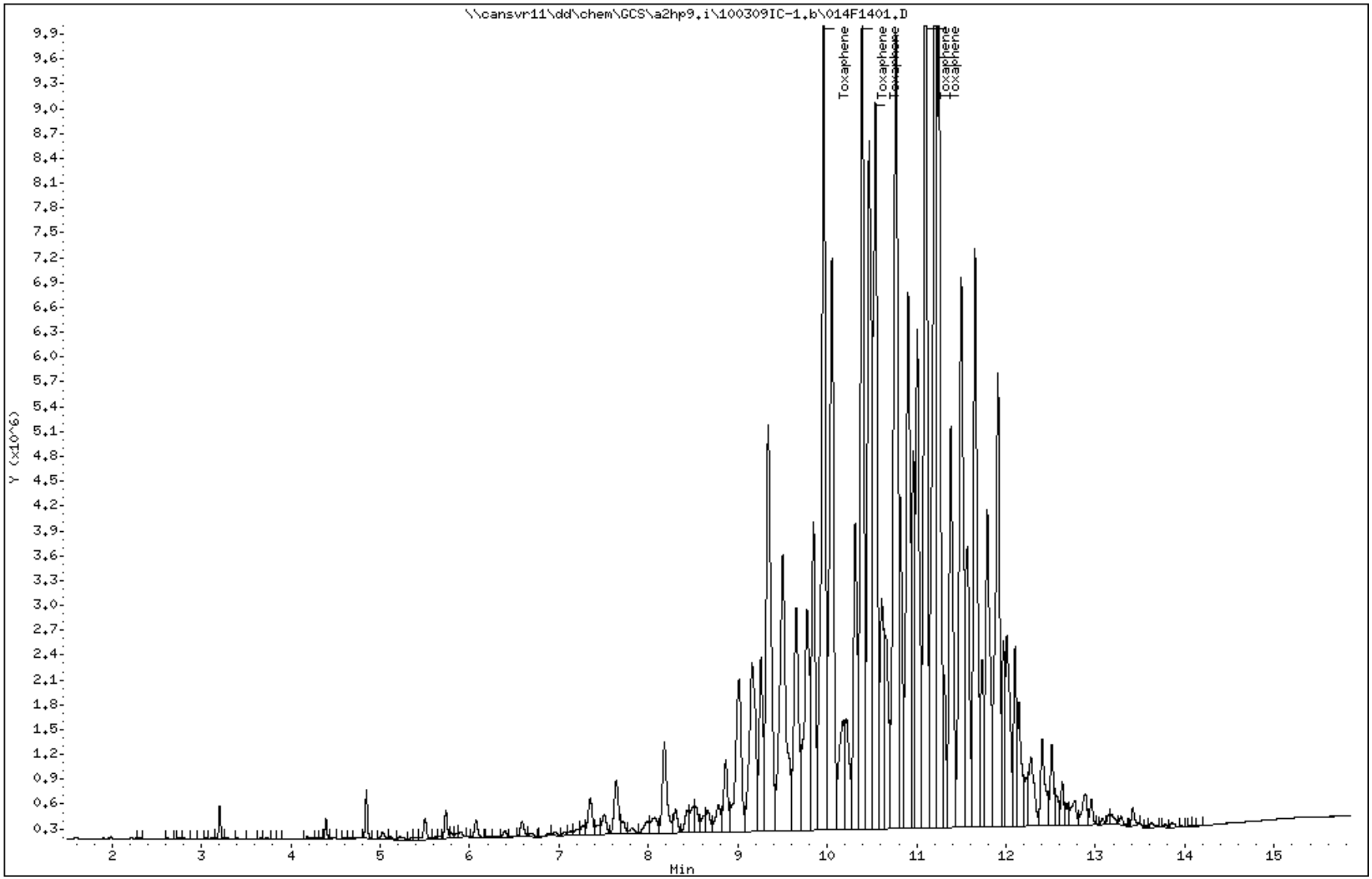
Instrument: a2hp9.i

Sample Info: TOX5 G268,,1,5

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 14:13
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/014F1401.D
Lab Sample ID: TOX5 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.960	30979644	5.420	5.420

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\003F0301.D
Lab Smp Id: AB1 G250
Inj Date : 09-MAR-2010 09:45
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB1 G250,,1,1
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:05 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 09:45 Cal File: 003F0301.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.375	4.375	0.000	213917	0.00500	0.004817		
4 alpha-BHC						CAS #: 319-84-6	
5.296	5.296	0.000	418571	0.00500	0.004700		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.951	5.951	0.000	391870	0.00500	0.004712		
6 beta-BHC						CAS #: 319-85-7	
6.158	6.158	0.000	199424	0.00500	0.004916		
7 delta-BHC						CAS #: 319-86-8	
6.816	6.816	0.000	355015	0.00500	0.004626		
8 Heptachlor						CAS #: 76-44-8	
6.934	6.934	0.000	378766	0.00500	0.004642		
10 Aldrin						CAS #: 309-00-2	
7.759	7.759	0.000	125699	0.00500	0.004782		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.104	9.104	0.000	357768	0.00500	0.004815		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.489	9.489	0.000	345090	0.00500	0.004795		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.775	9.775	0.000	348153	0.00500	0.004825		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.838    9.838    0.000          327976 0.00500  0.004837
--------------------------------------------------------------------------------
```

				AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
	16 4,4'-DDE					CAS #: 72-55-9	
10.181	10.181	0.000	120633	0.00500	0.004640		
	17 Dieldrin					CAS #: 60-57-1	
10.337	10.337	0.000	324877	0.00500	0.004813		
	18 Endrin					CAS #: 72-20-8	
10.838	10.838	0.000	271636	0.00500	0.004680		
	21 4,4'-DDD					CAS #: 72-54-8	
11.154	11.154	0.000	93983	0.00500	0.004574		
	22 Endosulfan II					CAS #: 33213-65-9	
11.197	11.197	0.000	133739	0.00500	0.004802		
	24 4,4'-DDT					CAS #: 50-29-3	
11.636	11.636	0.000	102209	0.00500	0.004531		
	25 Endrin aldehyde					CAS #: 7421-93-4	
11.745	11.745	0.000	228356	0.00500	0.004826		
	26 Endosulfan sulfate					CAS #: 1031-07-8	
12.167	12.167	0.000	117602	0.00500	0.004718		
	27 Methoxychlor					CAS #: 72-43-5	
12.686	12.686	0.000	116286	0.00500	0.004745		
	29 Endrin ketone					CAS #: 53494-70-5	
12.903	12.903	0.000	320441	0.00500	0.004919		
$	30 Decachlorobiphenyl					CAS #: 2051-24-3	
14.656	14.656	0.000	293241	0.00500	0.004841		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\003F0301.D

Page 1

Date : 09-MAR-2010 09:45

Client ID:

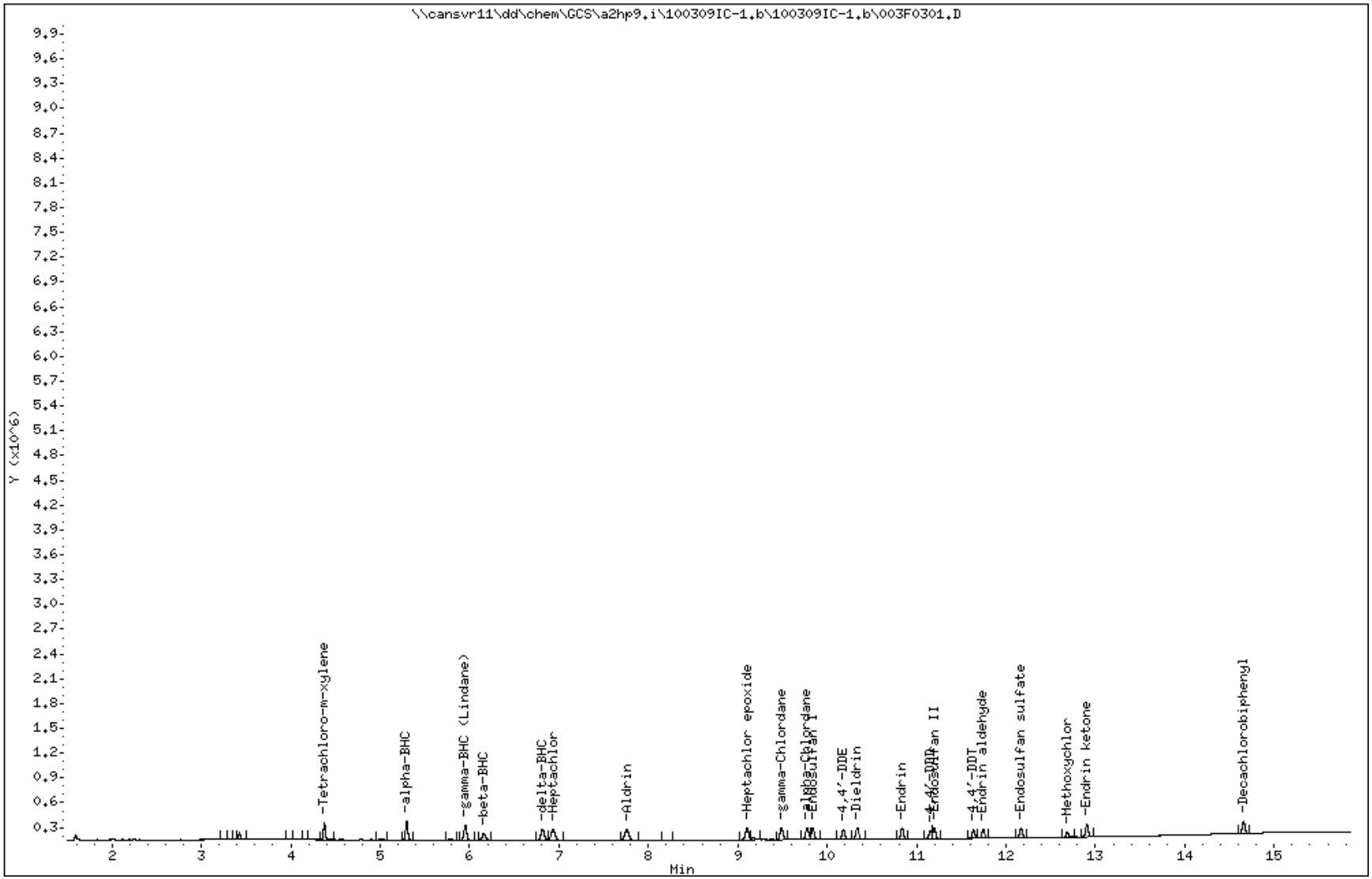
Instrument: a2hp9.i

Sample Info: AB1 G250,,1,1

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 09:45
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/003F0301.D
Lab Sample ID: AB1 G250
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.375	318052	0.005	0.005
4) alpha-BHC	5.296	418571	0.005	0.005
5) gamma-BHC (Lindane)	5.952	391870	0.005	0.005
6) beta-BHC	6.159	199424	0.005	0.005
7) delta-BHC	6.816	355015	0.005	0.005
8) Heptachlor	6.934	378766	0.005	0.005
10) Aldrin	7.759	395722	0.005	0.005
12) Heptachlor epoxide	9.104	357768	0.005	0.005
13) gamma-Chlordane	9.489	345090	0.005	0.005
14) alpha-Chlordane	9.775	348153	0.005	0.005
15) Endosulfan I	9.839	327976	0.005	0.005
16) 4,4'-DDE	10.181	284510	0.005	0.005
17) Dieldrin	10.338	324877	0.005	0.005
18) Endrin	10.839	271636	0.005	0.005
21) 4,4'-DDD	11.154	190590	0.005	0.005
22) Endosulfan II	11.198	293615	0.005	0.005
24) 4,4'-DDT	11.637	209165	0.005	0.005
25) Endrin aldehyde	11.745	228356	0.005	0.005
26) Endosulfan sulfate	12.168	242765	0.005	0.005
27) Methoxychlor	12.686	116286	0.005	0.005
29) Endrin ketone	12.904	320441	0.005	0.005
30) Decachlorobiphenyl	14.656	293241	0.005	0.005

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\004F0401.D
Lab Smp Id: AB2 G251
Inj Date : 09-MAR-2010 10:09
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB2 G251,,1,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:07 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 10:09 Cal File: 004F0401.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.374	4.374	0.000	460323	0.01000	0.009724		
4 alpha-BHC						CAS #: 319-84-6	
5.295	5.295	0.000	944021	0.01000	0.009003		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.951	5.951	0.000	879413	0.01000	0.009262		
6 beta-BHC						CAS #: 319-85-7	
6.158	6.158	0.000	412464	0.01000	0.01008		
7 delta-BHC						CAS #: 319-86-8	
6.815	6.815	0.000	824841	0.01000	0.008994		
8 Heptachlor						CAS #: 76-44-8	
6.933	6.933	0.000	874204	0.01000	0.009799		
10 Aldrin						CAS #: 309-00-2	
7.758	7.758	0.000	274284	0.01000	0.009259		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.103	9.103	0.000	770563	0.01000	0.009732		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.488	9.488	0.000	749196	0.01000	0.009533		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.774	9.774	0.000	746900	0.01000	0.009671		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.839    9.839    0.000          700034 0.01000  0.009700
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.179	10.179	0.000	278719	0.01000	0.009189		
17 Dieldrin					CAS #: 60-57-1		
10.336	10.336	0.000	700276	0.01000	0.009303		
18 Endrin					CAS #: 72-20-8		
10.837	10.837	0.000	617602	0.01000	0.009431		
21 4,4'-DDD					CAS #: 72-54-8		
11.153	11.153	0.000	222980	0.01000	0.009153		
22 Endosulfan II					CAS #: 33213-65-9		
11.197	11.197	0.000	289479	0.01000	0.009508		
24 4,4'-DDT					CAS #: 50-29-3		
11.634	11.634	0.000	246742	0.01000	0.009402		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.743	11.743	0.000	489676	0.01000	0.009806		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.165	12.165	0.000	263308	0.01000	0.009618		
27 Methoxychlor					CAS #: 72-43-5		
12.684	12.684	0.000	257566	0.01000	0.009964		
29 Endrin ketone					CAS #: 53494-70-5		
12.903	12.903	0.000	662074	0.01000	0.009860		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.655	14.655	0.000	625006	0.01000	0.01050		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\004F0401.D

Page 1

Date : 09-MAR-2010 10:09

Client ID:

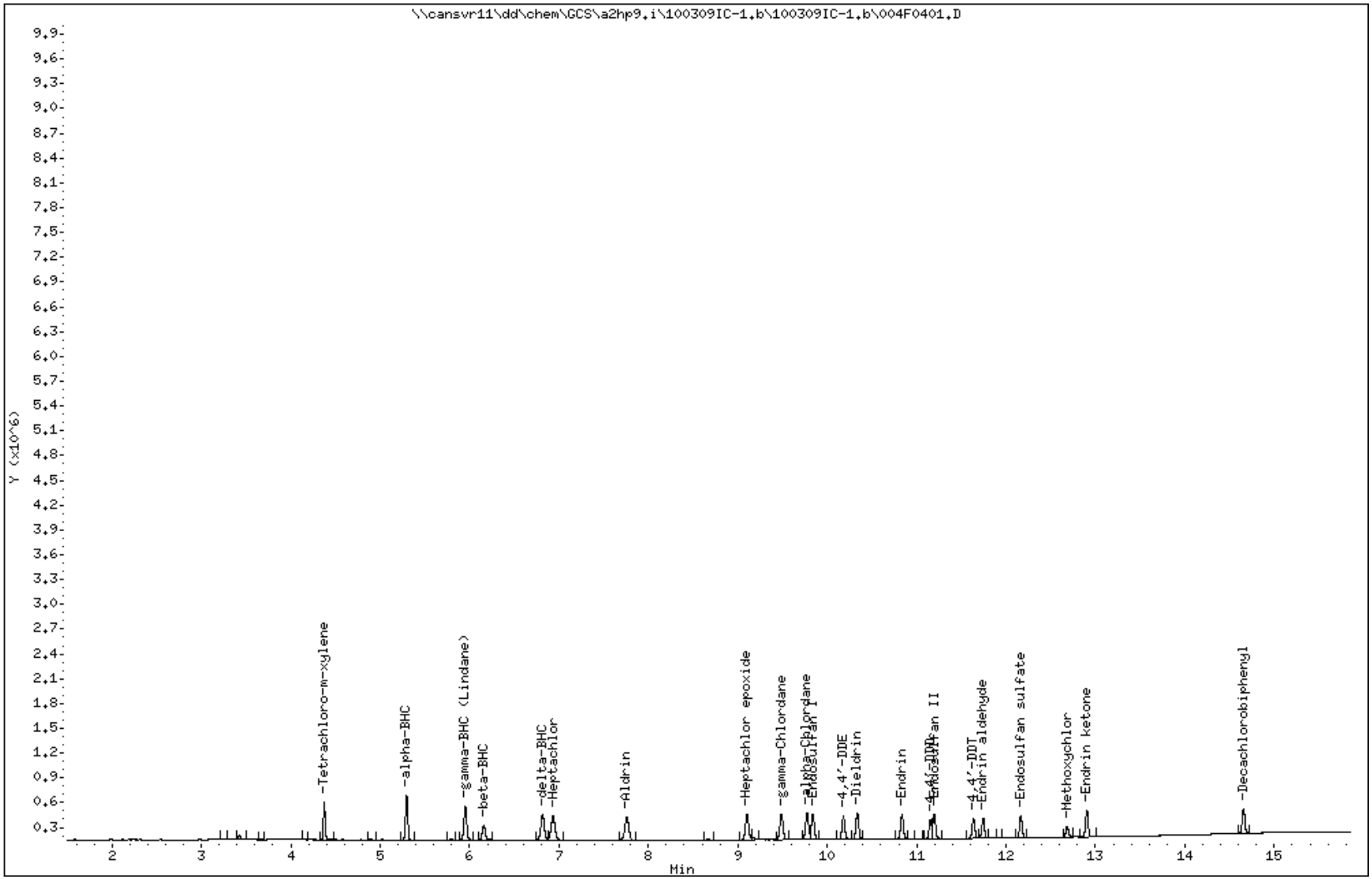
Instrument: a2hp9.i

Sample Info: AB2 G251,,1,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 10:09
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/004F0401.D
Lab Sample ID: AB2 G251
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.375	642141	0.010	0.010
4) alpha-BHC	5.296	944021	0.009	0.009
5) gamma-BHC (Lindane)	5.952	879413	0.009	0.009
6) beta-BHC	6.158	412464	0.010	0.010
7) delta-BHC	6.816	824841	0.009	0.009
8) Heptachlor	6.933	874204	0.010	0.010
10) Aldrin	7.758	836911	0.009	0.009
12) Heptachlor epoxide	9.103	770563	0.010	0.010
13) gamma-Chlordane	9.488	749196	0.010	0.010
14) alpha-Chlordane	9.774	746900	0.010	0.010
15) Endosulfan I	9.839	700034	0.010	0.010
16) 4,4'-DDE	10.180	645851	0.009	0.009
17) Dieldrin	10.337	700276	0.009	0.009
18) Endrin	10.837	617602	0.009	0.009
21) 4,4'-DDD	11.153	446843	0.009	0.009
22) Endosulfan II	11.197	636674	0.010	0.010
24) 4,4'-DDT	11.635	499719	0.009	0.009
25) Endrin aldehyde	11.743	489676	0.010	0.010
26) Endosulfan sulfate	12.166	531489	0.010	0.010
27) Methoxychlor	12.684	257566	0.010	0.010
29) Endrin ketone	12.903	662074	0.010	0.010
30) Decachlorobiphenyl	14.656	625006	0.011	0.011

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\005F0501.D
Lab Smp Id: AB3 G252
Inj Date : 09-MAR-2010 10:33
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,1,3
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:05 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 10:33 Cal File: 005F0501.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.374	4.374	0.000	1200647	0.02500	0.02632		
4 alpha-BHC						CAS #: 319-84-6	
5.295	5.295	0.000	2624609	0.02500	0.02781		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.952	5.952	0.000	2363275	0.02500	0.02718		
6 beta-BHC						CAS #: 319-85-7	
6.157	6.157	0.000	1046131	0.02500	0.02552		
7 delta-BHC						CAS #: 319-86-8	
6.815	6.815	0.000	2272381	0.02500	0.02790		
8 Heptachlor						CAS #: 76-44-8	
6.932	6.932	0.000	2260382	0.02500	0.02674		
10 Aldrin						CAS #: 309-00-2	
7.757	7.757	0.000	741636	0.02500	0.02706		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.102	9.102	0.000	1983766	0.02500	0.02611		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.488	9.488	0.000	1945506	0.02500	0.02632		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.774	9.774	0.000	1921410	0.02500	0.02606		

```
   15 Endosulfan I                               CAS #: 959-98-8
9.838    9.838    0.000         1807844 0.02500  0.02608
---------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
10.181	10.181	0.000	763418	0.02500	0.02775		
17 Dieldrin						CAS #: 60-57-1	
10.337	10.337	0.000	1887242	0.02500	0.02690		
18 Endrin						CAS #: 72-20-8	
10.837	10.837	0.000	1655378	0.02500	0.02724		
21 4,4'-DDD						CAS #: 72-54-8	
11.154	11.154	0.000	619173	0.02500	0.02820		
22 Endosulfan II						CAS #: 33213-65-9	
11.197	11.197	0.000	768526	0.02500	0.02667		
24 4,4'-DDT						CAS #: 50-29-3	
11.636	11.636	0.000	662902	0.02500	0.02776		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.743	11.743	0.000	1273768	0.02500	0.02625		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.166	12.166	0.000	691237	0.02500	0.02676		
27 Methoxychlor						CAS #: 72-43-5	
12.684	12.684	0.000	686765	0.02500	0.02694		
29 Endrin ketone						CAS #: 53494-70-5	
12.903	12.903	0.000	1718272	0.02500	0.02590		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.656	14.656	0.000	1559642	0.02500	0.02549		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\005F0501.D

Page 1

Date : 09-MAR-2010 10:33

Client ID:

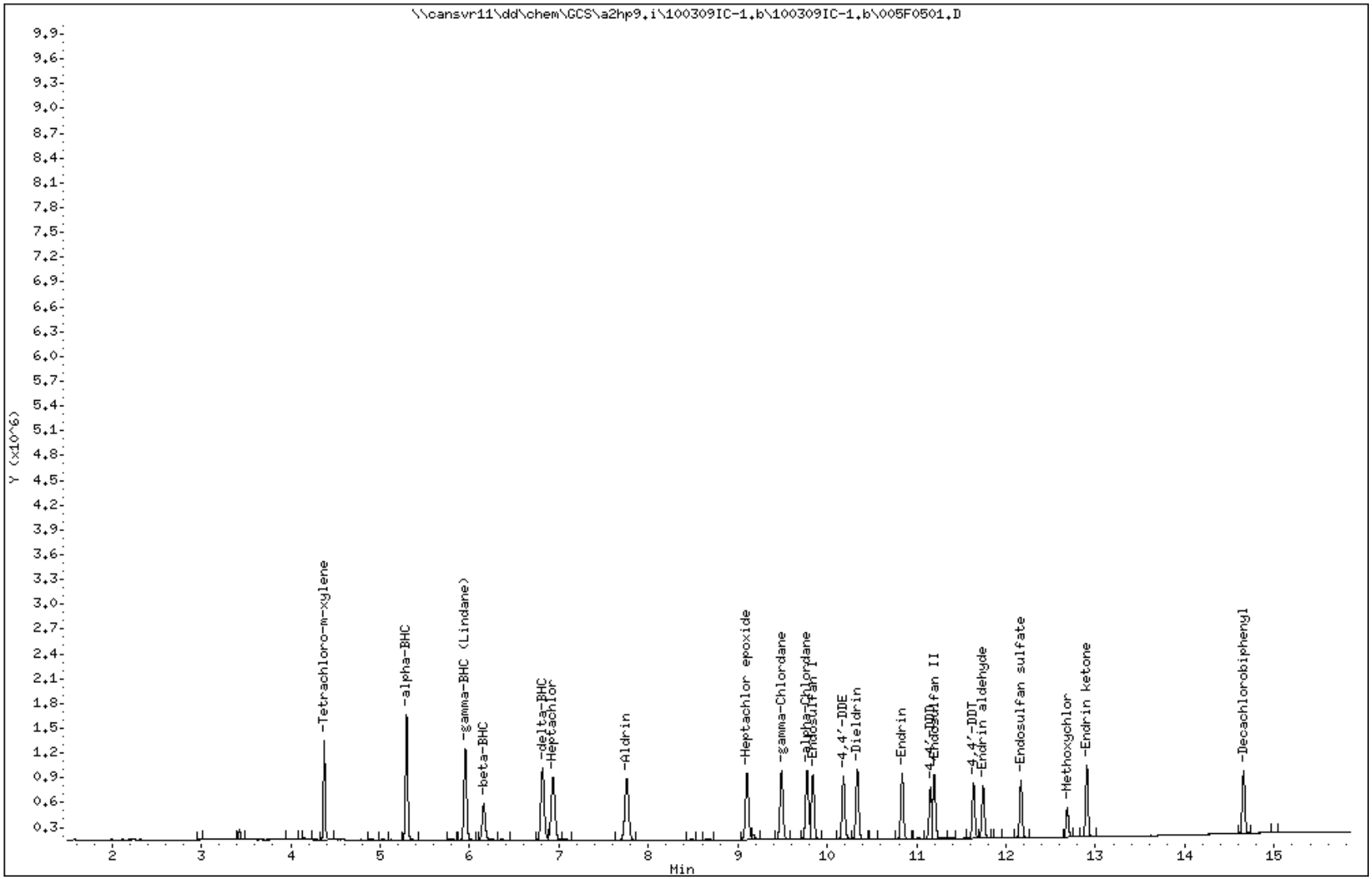
Instrument: a2hp9.i

Sample Info: AB3 G252,,1,3

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 10:33
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/005F0501.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.375	1633289	0.026	0.026
4) alpha-BHC	5.295	2624609	0.028	0.028
5) gamma-BHC (Lindane)	5.953	2363275	0.027	0.027
6) beta-BHC	6.158	1046131	0.026	0.026
7) delta-BHC	6.815	2272381	0.028	0.028
8) Heptachlor	6.933	2260382	0.027	0.027
10) Aldrin	7.757	2208757	0.027	0.027
12) Heptachlor epoxide	9.103	1983766	0.026	0.026
13) gamma-Chlordane	9.489	1945506	0.026	0.026
14) alpha-Chlordane	9.775	1921410	0.026	0.026
15) Endosulfan I	9.839	1807844	0.026	0.026
16) 4,4'-DDE	10.181	1718048	0.028	0.028
17) Dieldrin	10.337	1887242	0.027	0.027
18) Endrin	10.838	1655378	0.027	0.027
21) 4,4'-DDD	11.155	1223401	0.028	0.028
22) Endosulfan II	11.198	1660669	0.027	0.027
24) 4,4'-DDT	11.636	1329190	0.028	0.028
25) Endrin aldehyde	11.744	1273768	0.026	0.026
26) Endosulfan sulfate	12.166	1401766	0.027	0.027
27) Methoxychlor	12.685	686765	0.027	0.027
29) Endrin ketone	12.904	1718272	0.026	0.026
30) Decachlorobiphenyl	14.656	1559642	0.025	0.025

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\006F0601.D
Lab Smp Id: AB4 G253
Inj Date : 09-MAR-2010 10:57
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB4 G253,,1,4
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:05 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 10:57 Cal File: 006F0601.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.374	4.374	0.000	2365427	0.05000	0.05138		
4 alpha-BHC					CAS #: 319-84-6		
5.295	5.295	0.000	5427184	0.05000	0.05543		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.951	5.951	0.000	4868024	0.05000	0.05436		
6 beta-BHC					CAS #: 319-85-7		
6.157	6.157	0.000	2008864	0.05000	0.04925		
7 delta-BHC					CAS #: 319-86-8		
6.814	6.814	0.000	4770936	0.05000	0.05616		
8 Heptachlor					CAS #: 76-44-8		
6.931	6.931	0.000	4501454	0.05000	0.05240		
10 Aldrin					CAS #: 309-00-2		
7.757	7.757	0.000	1515620	0.05000	0.05387		
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.103	9.103	0.000	4011720	0.05000	0.05207		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.487	9.487	0.000	3988056	0.05000	0.05291		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.774	9.774	0.000	3878081	0.05000	0.05193		

```
   15 Endosulfan I                               CAS #: 959-98-8
9.838    9.838    0.000         3664495 0.05000  0.05213
---------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
	16 4,4'-DDE				CAS #: 72-55-9		
10.180	10.180	0.000	1590024	0.05000	0.05563		
	17 Dieldrin				CAS #: 60-57-1		
10.336	10.336	0.000	3920254	0.05000	0.05428		
	18 Endrin				CAS #: 72-20-8		
10.836	10.836	0.000	3407745	0.05000	0.05442		
	21 4,4'-DDD				CAS #: 72-54-8		
11.152	11.152	0.000	1294164	0.05000	0.05642		
	22 Endosulfan II				CAS #: 33213-65-9		
11.196	11.196	0.000	1598792	0.05000	0.05401		
	24 4,4'-DDT				CAS #: 50-29-3		
11.635	11.635	0.000	1388254	0.05000	0.05587		
	25 Endrin aldehyde				CAS #: 7421-93-4		
11.743	11.743	0.000	2596437	0.05000	0.05258		
	26 Endosulfan sulfate				CAS #: 1031-07-8		
12.165	12.165	0.000	1426630	0.05000	0.05382		
	27 Methoxychlor				CAS #: 72-43-5		
12.684	12.684	0.000	1345889	0.05000	0.05206		
	29 Endrin ketone				CAS #: 53494-70-5		
12.904	12.904	0.000	3418028	0.05000	0.05113		
$	30 Decachlorobiphenyl				CAS #: 2051-24-3		
14.655	14.655	0.000	3046402	0.05000	0.04985		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\006F0601.D

Page 1

Date : 09-MAR-2010 10:57

Client ID:

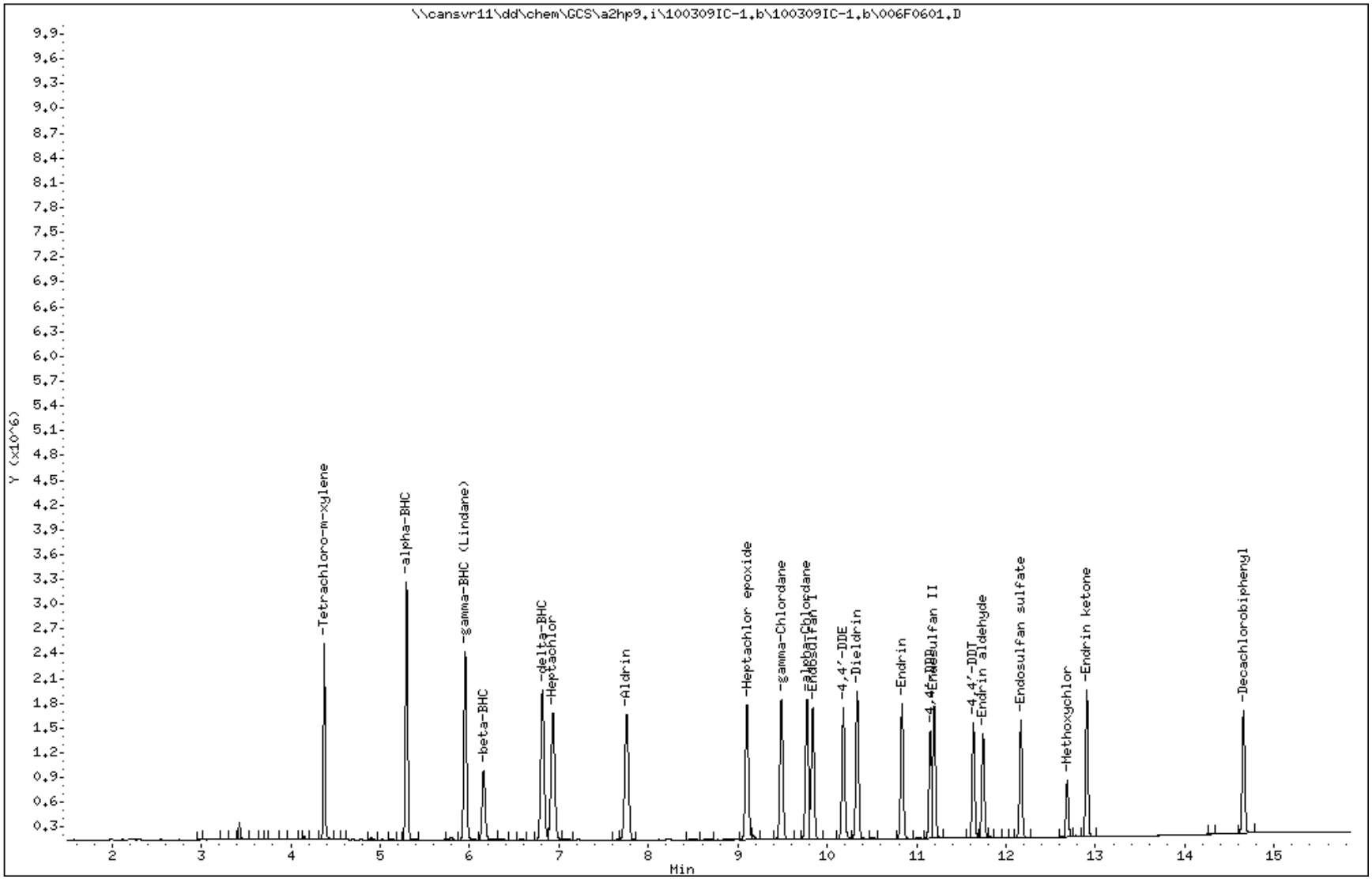
Instrument: a2hp9.i

Sample Info: AB4 G253,,1,4

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 10:57
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/006F0601.D
Lab Sample ID: AB4 G253
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.374	3209936	0.051	0.051
4) alpha-BHC	5.295	5427184	0.055	0.055
5) gamma-BHC (Lindane)	5.952	4868024	0.054	0.054
6) beta-BHC	6.158	2008864	0.049	0.049
7) delta-BHC	6.814	4770936	0.056	0.056
8) Heptachlor	6.932	4501454	0.052	0.052
10) Aldrin	7.758	4499209	0.054	0.054
12) Heptachlor epoxide	9.103	4011720	0.052	0.052
13) gamma-Chlordane	9.488	3988056	0.053	0.053
14) alpha-Chlordane	9.774	3878081	0.052	0.052
15) Endosulfan I	9.838	3664495	0.052	0.052
16) 4,4'-DDE	10.180	3532572	0.056	0.056
17) Dieldrin	10.337	3920254	0.054	0.054
18) Endrin	10.837	3407745	0.054	0.054
21) 4,4'-DDD	11.153	2560577	0.056	0.056
22) Endosulfan II	11.197	3346652	0.054	0.054
24) 4,4'-DDT	11.635	2758711	0.056	0.056
25) Endrin aldehyde	11.743	2596437	0.053	0.053
26) Endosulfan sulfate	12.166	2835537	0.054	0.054
27) Methoxychlor	12.684	1345889	0.052	0.052
29) Endrin ketone	12.904	3418028	0.051	0.051
30) Decachlorobiphenyl	14.656	3046402	0.050	0.050

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\007F0701.D
Lab Smp Id: AB5 G254
Inj Date : 09-MAR-2010 11:20
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB5 G254,,1,5
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:05 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 11:20 Cal File: 007F0701.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.374	4.374	0.000	4959791	0.10000	0.1061		
4 alpha-BHC						CAS #: 319-84-6	
5.295	5.295	0.000	11659030	0.10000	0.1147		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.952	5.952	0.000	10357299	0.10000	0.1121		
6 beta-BHC						CAS #: 319-85-7	
6.157	6.157	0.000	4060326	0.10000	0.09964		
7 delta-BHC						CAS #: 319-86-8	
6.814	6.814	0.000	10177094	0.10000	0.1152		
8 Heptachlor						CAS #: 76-44-8	
6.931	6.931	0.000	9426914	0.10000	0.1076		
10 Aldrin						CAS #: 309-00-2	
7.757	7.757	0.000	3197731	0.10000	0.1106		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.103	9.103	0.000	8220822	0.10000	0.1053		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.487	9.487	0.000	8268429	0.10000	0.1076		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.773	9.773	0.000	8044082	0.10000	0.1061		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.838    9.838    0.000         7436774 0.10000   0.1046
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.180	10.180	0.000	3258272	0.10000	0.1109		
17 Dieldrin					CAS #: 60-57-1		
10.335	10.335	0.000	7896923	0.10000	0.1073		
18 Endrin					CAS #: 72-20-8		
10.836	10.836	0.000	6881636	0.10000	0.1078		
21 4,4'-DDD					CAS #: 72-54-8		
11.152	11.152	0.000	2571140	0.10000	0.1094		
22 Endosulfan II					CAS #: 33213-65-9		
11.196	11.196	0.000	3107969	0.10000	0.1040		
24 4,4'-DDT					CAS #: 50-29-3		
11.635	11.635	0.000	2757181	0.10000	0.1086		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.743	11.743	0.000	4950209	0.10000	0.1002		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.165	12.165	0.000	2789347	0.10000	0.1041		
27 Methoxychlor					CAS #: 72-43-5		
12.683	12.683	0.000	2502585	0.10000	0.09743		
29 Endrin ketone					CAS #: 53494-70-5		
12.903	12.903	0.000	6557653	0.10000	0.09847		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.655	14.655	0.000	5538508	0.10000	0.09236		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\007F0701.D

Date : 09-MAR-2010 11:20

Client ID:

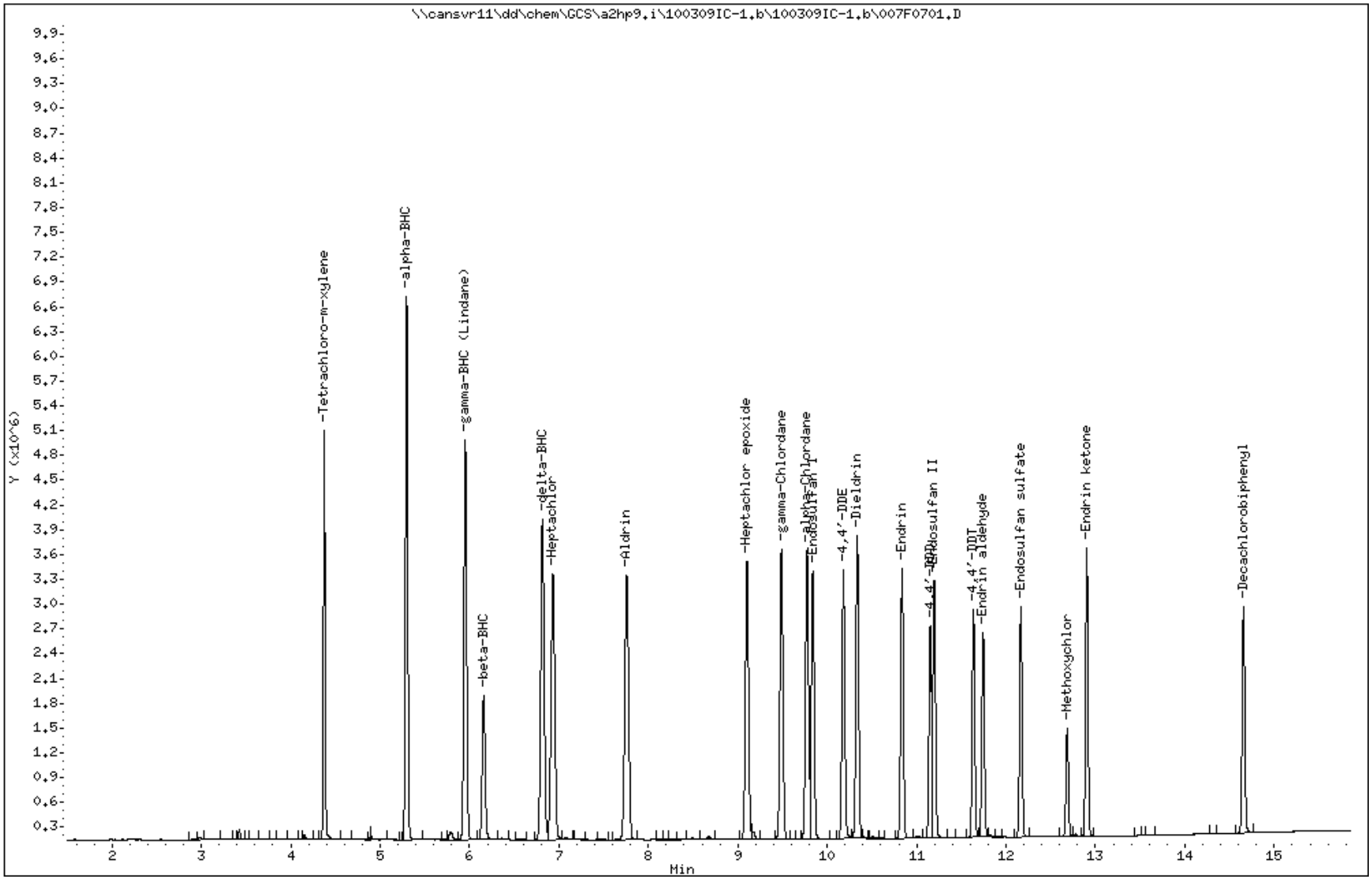
Instrument: a2hp9.i

Sample Info: AB5 G254,,1,5

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 11:20
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/007F0701.D
Lab Sample ID: AB5 G254
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.375	6768938	0.106	0.106
4) alpha-BHC	5.296	11659030	0.115	0.115
5) gamma-BHC (Lindane)	5.952	10357299	0.112	0.112
6) beta-BHC	6.157	4060326	0.100	0.100
7) delta-BHC	6.815	10177094	0.115	0.115
8) Heptachlor	6.931	9426914	0.108	0.108
10) Aldrin	7.757	9612216	0.111	0.111
12) Heptachlor epoxide	9.103	8220822	0.105	0.105
13) gamma-Chlordane	9.487	8268429	0.108	0.108
14) alpha-Chlordane	9.773	8044082	0.106	0.106
15) Endosulfan I	9.838	7436774	0.105	0.105
16) 4,4'-DDE	10.181	7188212	0.111	0.111
17) Dieldrin	10.336	7896923	0.107	0.107
18) Endrin	10.836	6881636	0.108	0.108
21) 4,4'-DDD	11.152	5143466	0.109	0.109
22) Endosulfan II	11.196	6585876	0.104	0.104
24) 4,4'-DDT	11.636	5415319	0.109	0.109
25) Endrin aldehyde	11.743	4950209	0.100	0.100
26) Endosulfan sulfate	12.166	5496036	0.104	0.104
27) Methoxychlor	12.684	2502585	0.097	0.097
29) Endrin ketone	12.903	6557653	0.098	0.098
30) Decachlorobiphenyl	14.656	5538508	0.092	0.092

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\008F0801.D
Lab Smp Id: AB6 G255
Inj Date : 09-MAR-2010 11:44
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB6 G255,,1,6
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:05 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 11:44 Cal File: 008F0801.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.374	4.374	0.000	10054249	0.20000	0.2124		
4 alpha-BHC						CAS #: 319-84-6	
5.294	5.294	0.000	24181369	0.20000	0.2306		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.951	5.951	0.000	21583115	0.20000	0.2273		
6 beta-BHC						CAS #: 319-85-7	
6.156	6.156	0.000	8323298	0.20000	0.2035		
7 delta-BHC						CAS #: 319-86-8	
6.814	6.814	0.000	21730444	0.20000	0.2370		
8 Heptachlor						CAS #: 76-44-8	
6.931	6.931	0.000	19476112	0.20000	0.2183		
10 Aldrin						CAS #: 309-00-2	
7.757	7.757	0.000	6643812	0.20000	0.2243		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.103	9.103	0.000	16932903	0.20000	0.2138		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.487	9.487	0.000	17462455	0.20000	0.2222		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.773	9.773	0.000	16843092	0.20000	0.2181		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.838    9.838    0.000        15487537 0.20000   0.2146
--------------------------------------------------------------------------------
```

				AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
	16 4,4'-DDE					CAS #: 72-55-9	
10.180	10.180	0.000	7014658	0.20000	0.2313		
	17 Dieldrin					CAS #: 60-57-1	
10.335	10.335	0.000	16754457	0.20000	0.2226		
	18 Endrin					CAS #: 72-20-8	
10.836	10.836	0.000	14731826	0.20000	0.2250		
	21 4,4'-DDD					CAS #: 72-54-8	
11.152	11.152	0.000	5741639	0.20000	0.2357		
	22 Endosulfan II					CAS #: 33213-65-9	
11.196	11.196	0.000	6637235	0.20000	0.2180		
	24 4,4'-DDT					CAS #: 50-29-3	
11.635	11.635	0.000	6099104	0.20000	0.2324		
	25 Endrin aldehyde					CAS #: 7421-93-4	
11.742	11.742	0.000	10521607	0.20000	0.2107		
	26 Endosulfan sulfate					CAS #: 1031-07-8	
12.165	12.165	0.000	6068032	0.20000	0.2216		
	27 Methoxychlor					CAS #: 72-43-5	
12.683	12.683	0.000	5332661	0.20000	0.2063		
	29 Endrin ketone					CAS #: 53494-70-5	
12.902	12.902	0.000	13982162	0.20000	0.2082		
$	30 Decachlorobiphenyl					CAS #: 2051-24-3	
14.655	14.655	0.000	11453388	0.20000	0.1924		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\008F0801.D

Page 1

Date : 09-MAR-2010 11:44

Client ID:

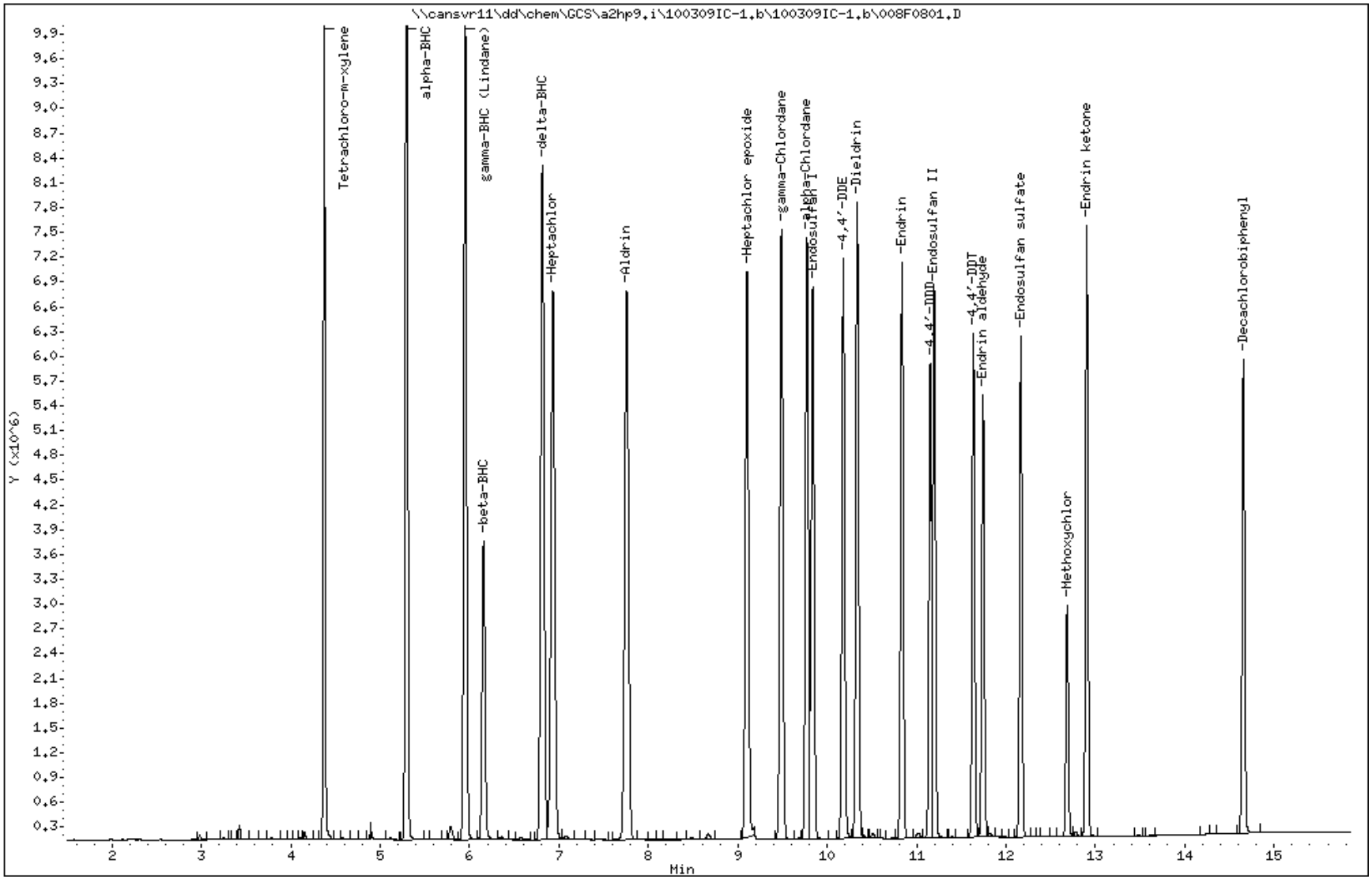
Instrument: a2hp9.i

Sample Info: AB6 G255,,1,6

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



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North Canton

COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 11:44
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/008F0801.D
Lab Sample ID: AB6 G255
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.374	13632335	0.212	0.212
4) alpha-BHC	5.294	24181369	0.231	0.231
5) gamma-BHC (Lindane)	5.952	21583115	0.227	0.227
6) beta-BHC	6.157	8323298	0.204	0.204
7) delta-BHC	6.814	21730444	0.237	0.237
8) Heptachlor	6.932	19476112	0.218	0.218
10) Aldrin	7.758	20036821	0.224	0.224
12) Heptachlor epoxide	9.103	16932903	0.214	0.214
13) gamma-Chlordane	9.488	17462455	0.222	0.222
14) alpha-Chlordane	9.773	16843092	0.218	0.218
15) Endosulfan I	9.838	15487537	0.215	0.215
16) 4,4'-DDE	10.180	15599224	0.231	0.231
17) Dieldrin	10.336	16754457	0.223	0.223
18) Endrin	10.837	14731826	0.225	0.225
21) 4,4'-DDD	11.153	11503888	0.236	0.236
22) Endosulfan II	11.197	13886086	0.218	0.218
24) 4,4'-DDT	11.635	12038539	0.232	0.232
25) Endrin aldehyde	11.743	10521607	0.211	0.211
26) Endosulfan sulfate	12.166	11802928	0.222	0.222
27) Methoxychlor	12.683	5332661	0.206	0.206
29) Endrin ketone	12.903	13982162	0.208	0.208
30) Decachlorobiphenyl	14.655	11453388	0.192	0.192

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 09-MAR-2010 12:09
Lab File ID: 009F0901.D Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 11:44
Lab Sample ID: ICV E048 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	47336546	++++	++++	0.000	++++	15.00000	Averaged	<-
4 alpha-BHC	104856914	113822760	113822760	0.010	-8.55055	15.00000	Averaged	
5 gamma-BHC (Lindane)	94949224	100816160	100816160	0.010	-6.17902	15.00000	Averaged	
6 beta-BHC	40895578	44750240	44750240	0.010	-9.42562	15.00000	Averaged	
7 delta-BHC	91704037	99058760	99058760	0.010	-8.02006	15.00000	Averaged	
8 Heptachlor	89211277	95936040	95936040	0.010	-7.53802	15.00000	Averaged	
10 Aldrin	29623735	31983880	31983880	0.010	-7.96707	15.00000	Averaged	
12 Heptachlor epoxide	79177946	85107920	85107920	0.010	-7.48943	15.00000	Averaged	
13 gamma-Chlordane	78585921	84190480	84190480	0.010	-7.13176	15.00000	Averaged	
14 alpha-Chlordane	77232483	83162320	83162320	0.010	-7.67790	15.00000	Averaged	
15 Endosulfan I	72167948	77396520	77396520	0.010	-7.24501	15.00000	Averaged	
16 4,4'-DDE	30331952	31928920	31928920	0.010	-5.26497	15.00000	Averaged	
17 Dieldrin	75273213	80691720	80691720	0.010	-7.19845	15.00000	Averaged	
18 Endrin	65488818	70558680	70558680	0.010	-7.74157	15.00000	Averaged	
21 4,4'-DDD	24360733	25979640	25979640	0.010	-6.64556	15.00000	Averaged	
22 Endosulfan II	30446408	32327400	32327400	0.010	-6.17804	15.00000	Averaged	
24 4,4'-DDT	26244082	26273080	26273080	0.010	-0.11049	15.00000	Averaged	
25 Endrin aldehyde	49938064	53604560	53604560	0.010	-7.34209	15.00000	Averaged	
26 Endosulfan sulfate	27377818	28705880	28705880	0.010	-4.85087	15.00000	Averaged	
27 Methoxychlor	25848556	26728200	26728200	0.010	-3.40307	15.00000	Averaged	
29 Endrin ketone	67145730	66607280	66607280	0.010	0.80191	15.00000	Averaged	
$ 30 Decachlorobiphenyl	59519090	++++	0.00000	0.010	++++	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 6.33807
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\009F0901.D
Lab Smp Id: ICV E048
Inj Date : 09-MAR-2010 12:09
Operator : 093905 Inst ID: a2hp9.i
Smp Info : ICV E048
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:08 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 10:09 Cal File: 004F0401.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Peaks not detected for Quant. or Qual. signal(s).							
4 alpha-BHC					CAS #: 319-84-6		
5.294	5.294	0.000	2845569	0.02500	0.02714		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.951	5.951	0.000	2520404	0.02500	0.02654		
6 beta-BHC					CAS #: 319-85-7		
6.156	6.156	0.000	1118756	0.02500	0.02736		
7 delta-BHC					CAS #: 319-86-8		
6.814	6.814	0.000	2476469	0.02500	0.02700		
8 Heptachlor					CAS #: 76-44-8		
6.930	6.930	0.000	2398401	0.02500	0.02688		
10 Aldrin					CAS #: 309-00-2		
7.756	7.756	0.000	799597	0.02500	0.02699		
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.102	9.102	0.000	2127698	0.02500	0.02687		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.488	9.488	0.000	2104762	0.02500	0.02678		

```
   14 alpha-Chlordane                             CAS #: 5103-71-9
9.773    9.773    0.000         2079058 0.02500  0.02692
------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.837    9.837    0.000         1934913 0.02500  0.02681
------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
10.180	10.180	0.000	798223	0.02500	0.02632		
17 Dieldrin						CAS #: 60-57-1	
10.336	10.336	0.000	2017293	0.02500	0.02680		
18 Endrin						CAS #: 72-20-8	
10.836	10.836	0.000	1763967	0.02500	0.02694		
21 4,4'-DDD						CAS #: 72-54-8	
11.152	11.152	0.000	649491	0.02500	0.02666		
22 Endosulfan II						CAS #: 33213-65-9	
11.196	11.196	0.000	808185	0.02500	0.02654		
24 4,4'-DDT						CAS #: 50-29-3	
11.634	11.634	0.000	656827	0.02500	0.02503		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.742	11.742	0.000	1340114	0.02500	0.02684		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.165	12.165	0.000	717647	0.02500	0.02621		
27 Methoxychlor						CAS #: 72-43-5	
12.684	12.684	0.000	668205	0.02500	0.02585		
29 Endrin ketone						CAS #: 53494-70-5	
12.903	12.903	0.000	1665182	0.02500	0.02480		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\009F0901.D

Date : 09-MAR-2010 12:09

Client ID:

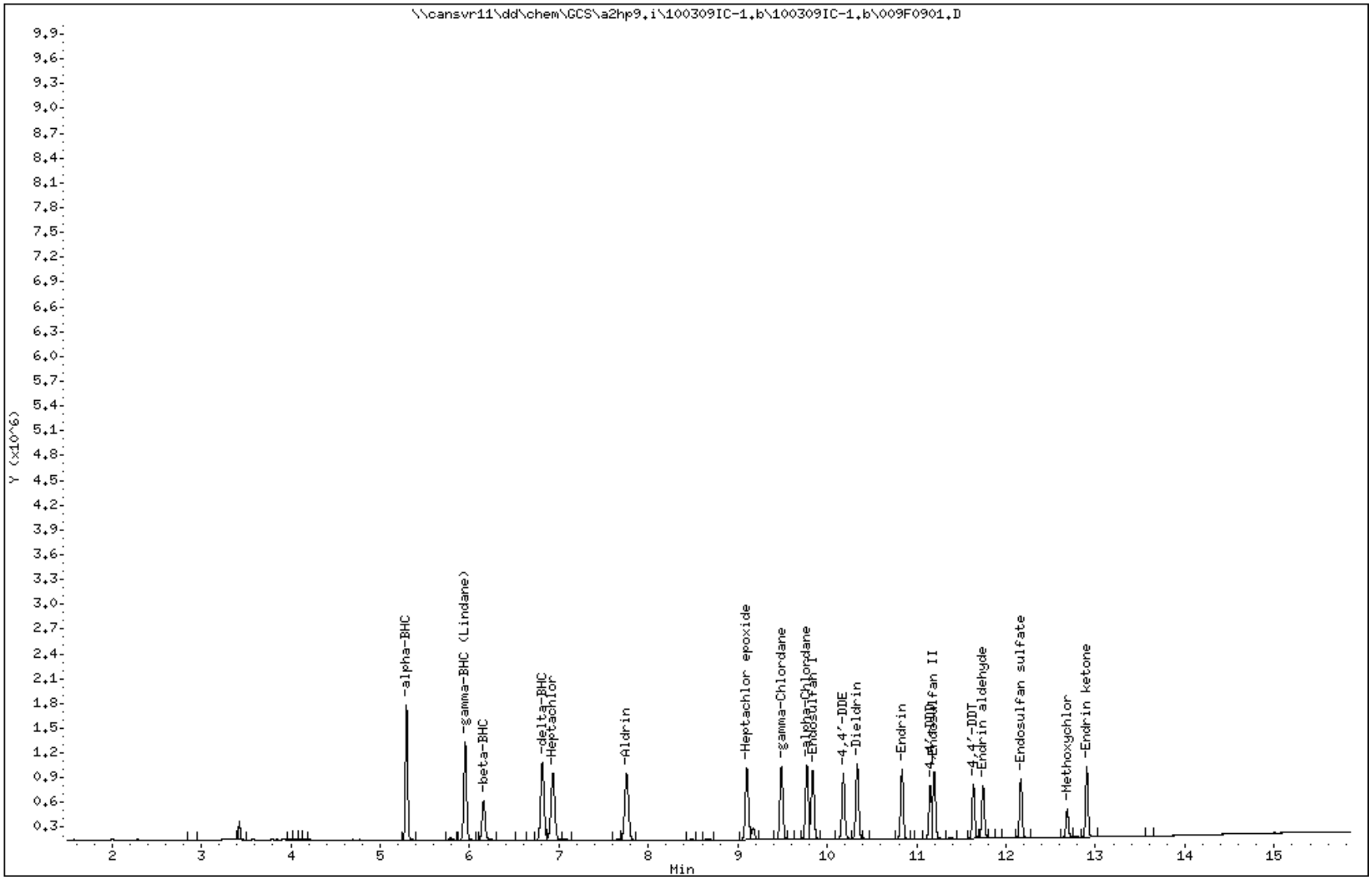
Instrument: a2hp9.i

Sample Info: ICV E048

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 12:09
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/009F0901.D
Lab Sample ID: ICV E048
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 4.375		
4) alpha-BHC	5.295	2845569	0.027	0.027
5) gamma-BHC (Lindane)	5.952	2520404	0.027	0.027
6) beta-BHC	6.157	1118756	0.027	0.027
7) delta-BHC	6.814	2476469	0.027	0.027
8) Heptachlor	6.931	2398401	0.027	0.027
10) Aldrin	7.757	2395059	0.027	0.027
12) Heptachlor epoxide	9.102	2127698	0.027	0.027
13) gamma-Chlordane	9.488	2104762	0.027	0.027
14) alpha-Chlordane	9.773	2079058	0.027	0.027
15) Endosulfan I	9.837	1934913	0.027	0.027
16) 4,4'-DDE	10.181	1798335	0.026	0.026
17) Dieldrin	10.337	2017293	0.027	0.027
18) Endrin	10.837	1763967	0.027	0.027
21) 4,4'-DDD	11.152	1281143	0.027	0.027
22) Endosulfan II	11.197	1744067	0.027	0.027
24) 4,4'-DDT	11.635	1327688	0.025	0.025
25) Endrin aldehyde	11.742	1340114	0.027	0.027
26) Endosulfan sulfate	12.166	1469132	0.026	0.026
27) Methoxychlor	12.684	668205	0.026	0.026
29) Endrin ketone	12.903	1665182	0.025	0.025
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.656		

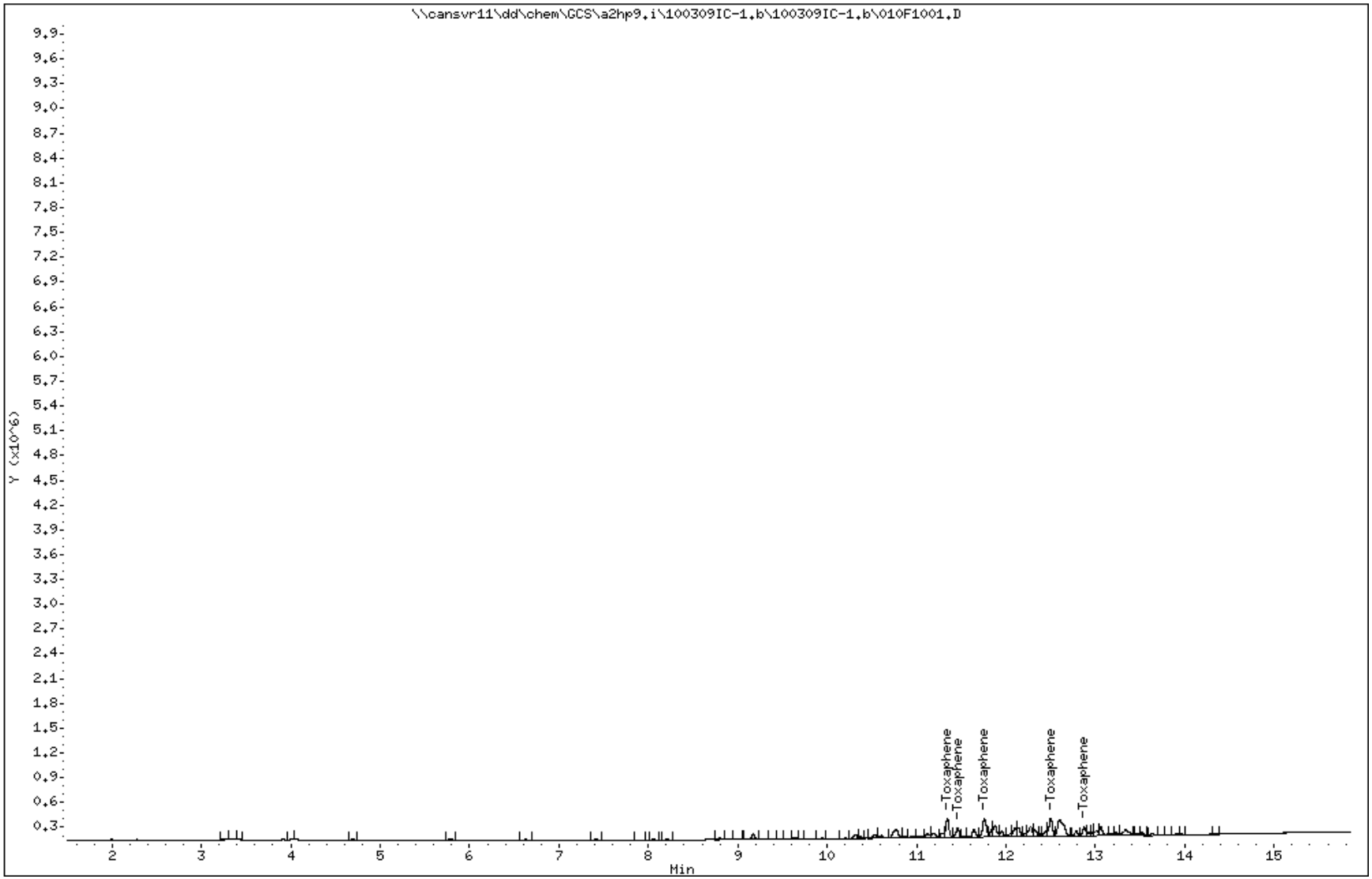
TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\010F1001.D
Lab Smp Id: TOX1 G268
Inj Date : 09-MAR-2010 12:34
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX1 G268,,1,1
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:11 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 12:34 Cal File: 010F1001.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.344	11.344	0.000	234715	0.20000	0.1802	80.00- 120.00	100.00
11.458	11.458	0.000	113094	0.20000	0.1771	114.04- 154.04	48.18
11.758	11.758	0.000	222556	0.20000	0.1784	115.64- 155.64	94.82
12.501	12.501	0.000	217204	0.20000	0.1846	52.78- 92.78	92.54
12.877	12.877	0.000	102330	0.20000	0.1711	69.36- 109.36	43.60
		Average of Peak Amounts =			0.17828		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\010F1001.D Page 1
Date : 09-MAR-2010 12:34
Client ID:
Sample Info: TOX1 G268,,1,1
Instrument: a2hp9.i
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 12:34
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/010F1001.D
Lab Sample ID: TOX1 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.344	575637	0.180	0.180

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\011F1101.D
Lab Smp Id: TOX2 G268
Inj Date : 09-MAR-2010 12:58
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX2 G268,,1,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:11 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 12:58 Cal File: 011F1101.D
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.343	11.343	0.000	640795	0.50000	0.4947	80.00- 120.00	100.00
11.459	11.459	0.000	314447	0.50000	0.4948	114.04- 154.04	49.07
11.758	11.758	0.000	607265	0.50000	0.4911	115.64- 155.64	94.77
12.501	12.501	0.000	581246	0.50000	0.4959	52.78- 92.78	90.71
12.875	12.875	0.000	287488	0.50000	0.4869	69.36- 109.36	44.86
		Average of Peak Amounts =			0.49268		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\011F1101.D

Date : 09-MAR-2010 12:58

Client ID:

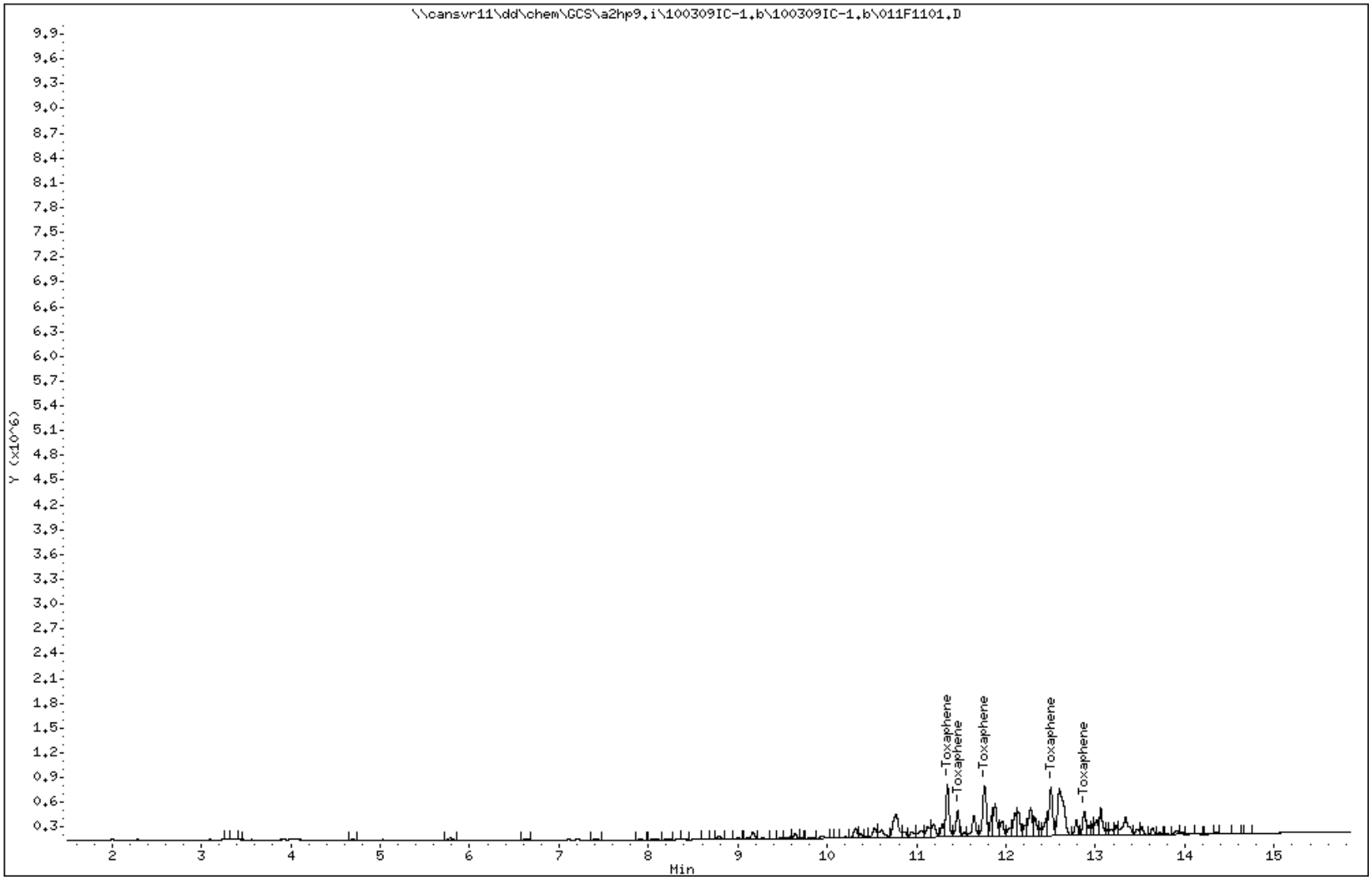
Instrument: a2hp9.i

Sample Info: TOX2 G268,,1,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 12:58
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/011F1101.D
Lab Sample ID: TOX2 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.344	1583932	0.495	0.495

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\012F1201.D
Lab Smp Id: TOX3 G268
Inj Date : 09-MAR-2010 13:23
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,1,3
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:11 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:23 Cal File: 012F1201.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.345	11.345	0.000	1200957	1.00000	0.9443	80.00- 120.00	100.00
11.458	11.458	0.000	586724	1.00000	0.9414	114.04- 154.04	48.85
11.757	11.757	0.000	1138061	1.00000	0.9391	115.64- 155.64	94.76
12.502	12.502	0.000	1057105	1.00000	0.9246	52.78- 92.78	88.02
12.875	12.875	0.000	544982	1.00000	0.9411	69.36- 109.36	45.38
		Average of Peak Amounts =			0.93810		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\012F1201.D

Date : 09-MAR-2010 13:23

Client ID:

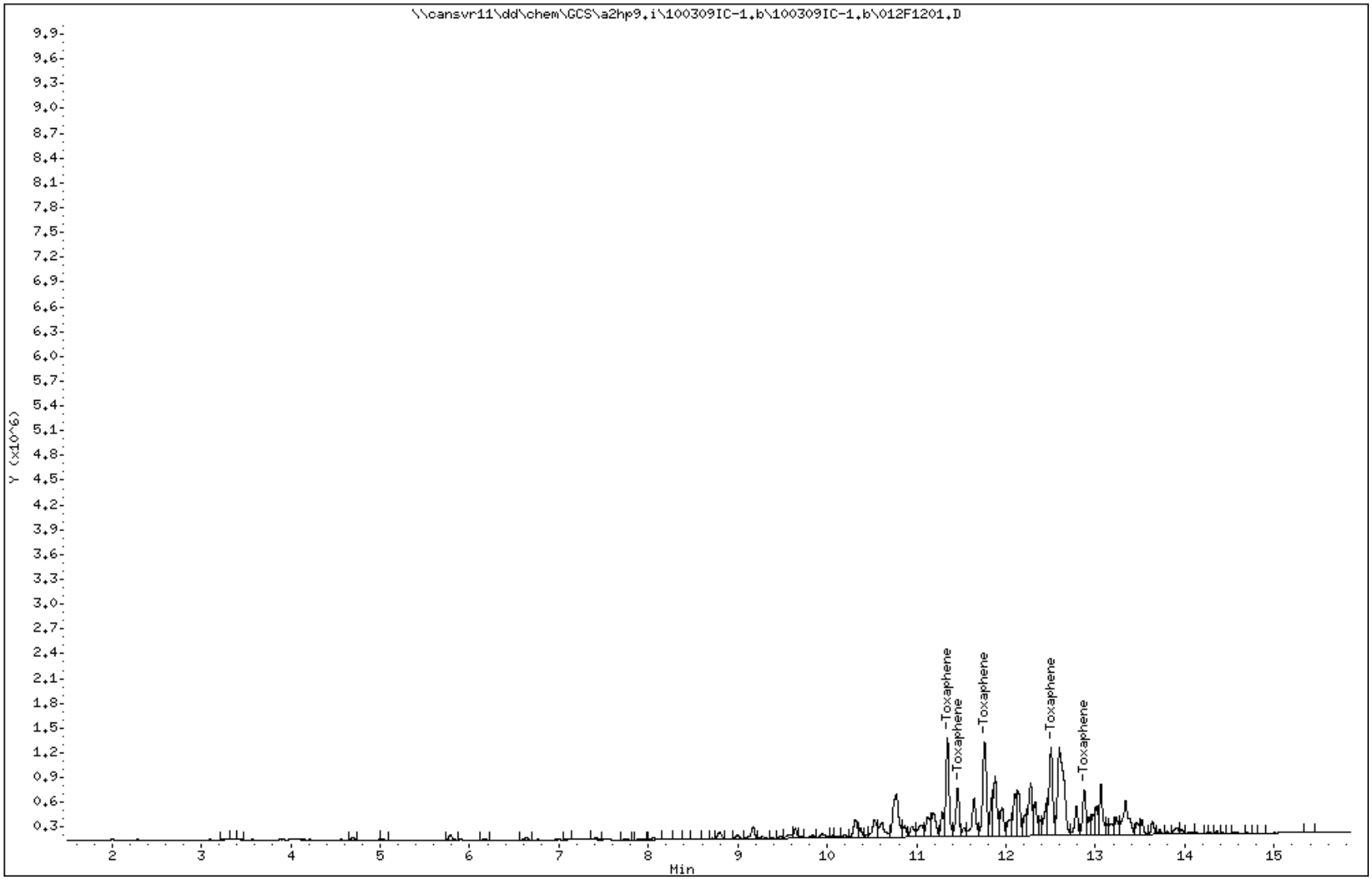
Instrument: a2hp9.i

Sample Info: TOX3 G268,,1,3

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 13:23
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/012F1201.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.345	2965296	0.944	0.944

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\013F1301.D
Lab Smp Id: TOX4 G268
Inj Date : 09-MAR-2010 13:48
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX4 G268,,1,4
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:11 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.345	11.345	0.000	2761945	2.00000	2.135	80.00- 120.00	100.00
11.459	11.459	0.000	1353862	2.00000	2.135	114.04- 154.04	49.02
11.757	11.757	0.000	2640554	2.00000	2.140	115.64- 155.64	95.60
12.500	12.500	0.000	2431717	2.00000	2.100	52.78- 92.78	88.04
12.876	12.876	0.000	1299152	2.00000	2.190	69.36- 109.36	47.04
		Average of Peak Amounts =			2.14000		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\013F1301.D

Date : 09-MAR-2010 13:48

Client ID:

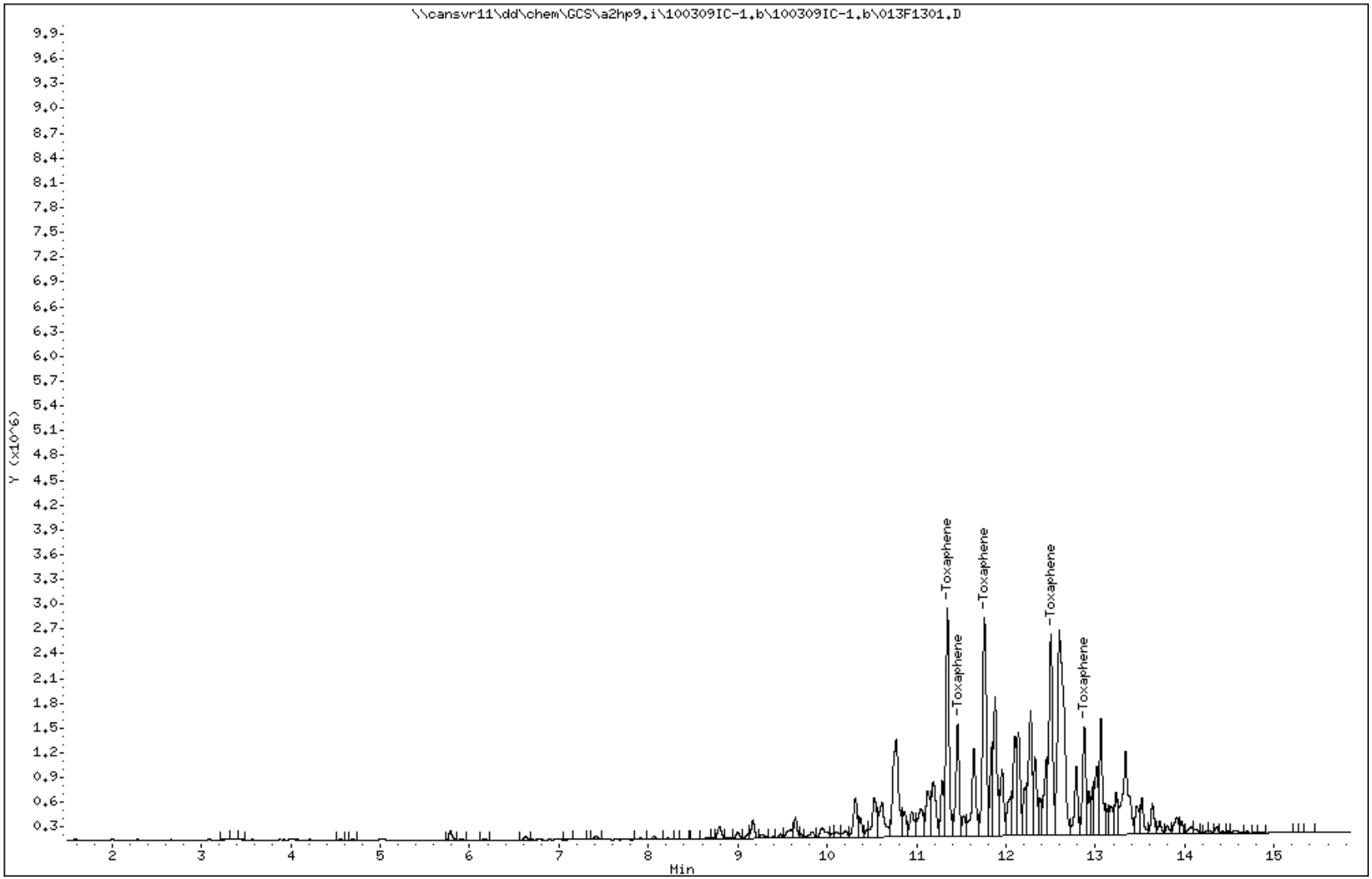
Instrument: a2hp9.i

Sample Info: TOX4 G268,,1,4

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 09-MAR-2010 13:48
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100309IC-1.b/100309IC-1.b/013F1301.D
Lab Sample ID: TOX4 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.345	6823987	2.135	2.135

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\014F1401.D
Lab Smp Id: TOX5 G268
Inj Date : 09-MAR-2010 14:13
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX5 G268,,1,5
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:10 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 14:13 Cal File: 014F1401.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.344	11.344	0.000	7154950	5.00000	5.000	80.00- 120.00	100.00(M)
11.457	11.457	0.000	3559667	5.00000	5.000	114.04- 154.04	49.75
11.756	11.756	0.000	6911030	5.00000	5.000	115.64- 155.64	96.59
12.501	12.501	0.000	6338879	5.00000	5.000	52.78- 92.78	88.59
12.876	12.876	0.000	3423533	5.00000	5.000	69.36- 109.36	47.85
		Average of Peak Amounts =			5.00000		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\014F1401.D

Date : 09-MAR-2010 14:13

Client ID:

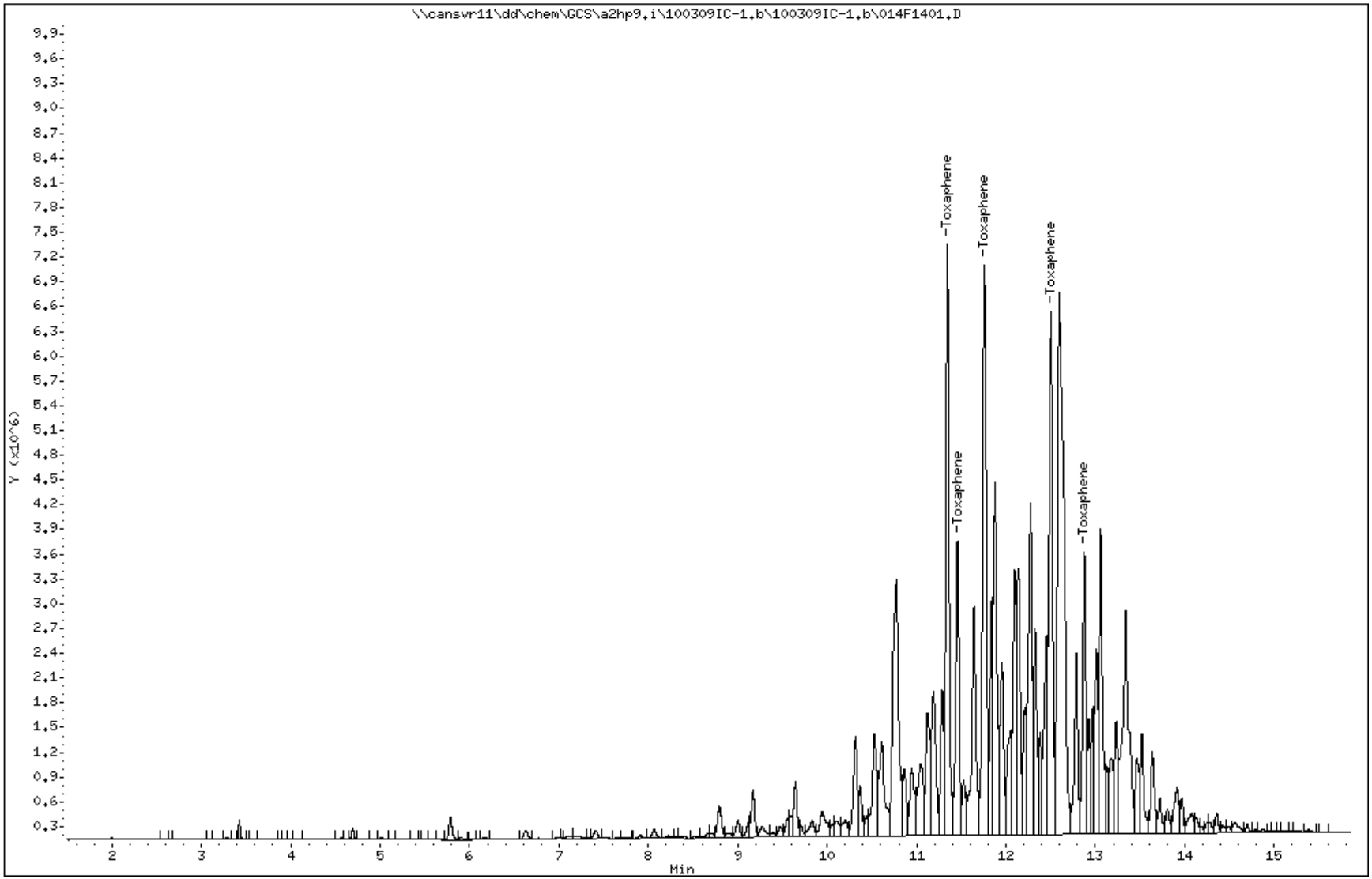
Instrument: a2hp9.i

Sample Info: TOX5 G268,,1,5

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

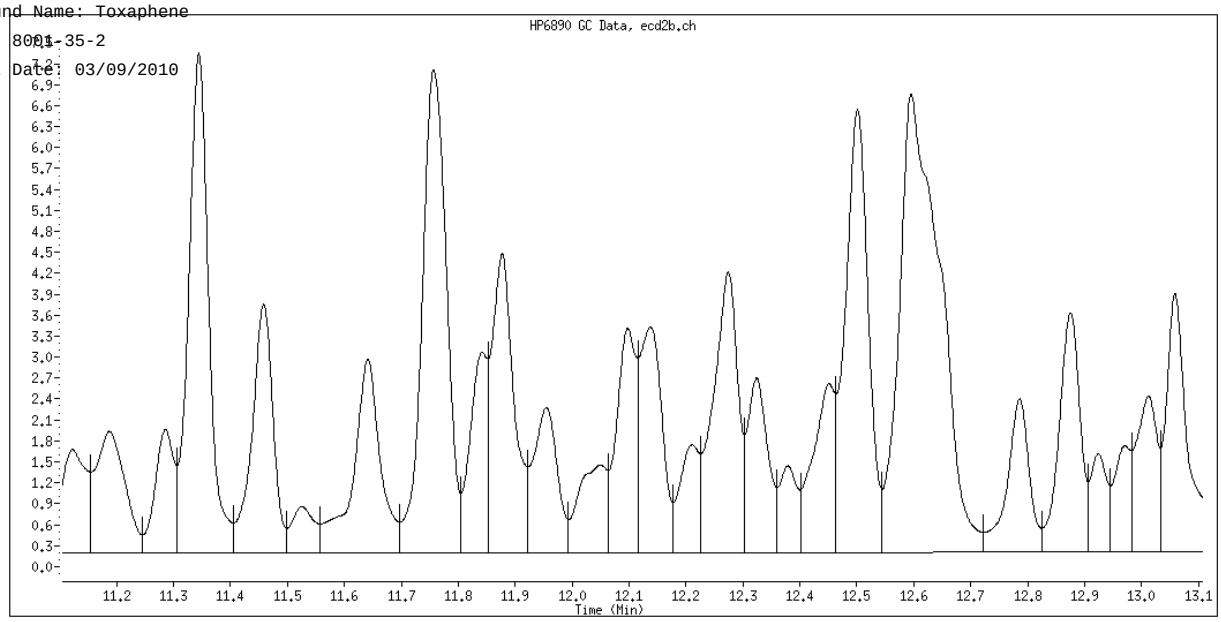


COMPOUNDS and EXP. RT REPORT

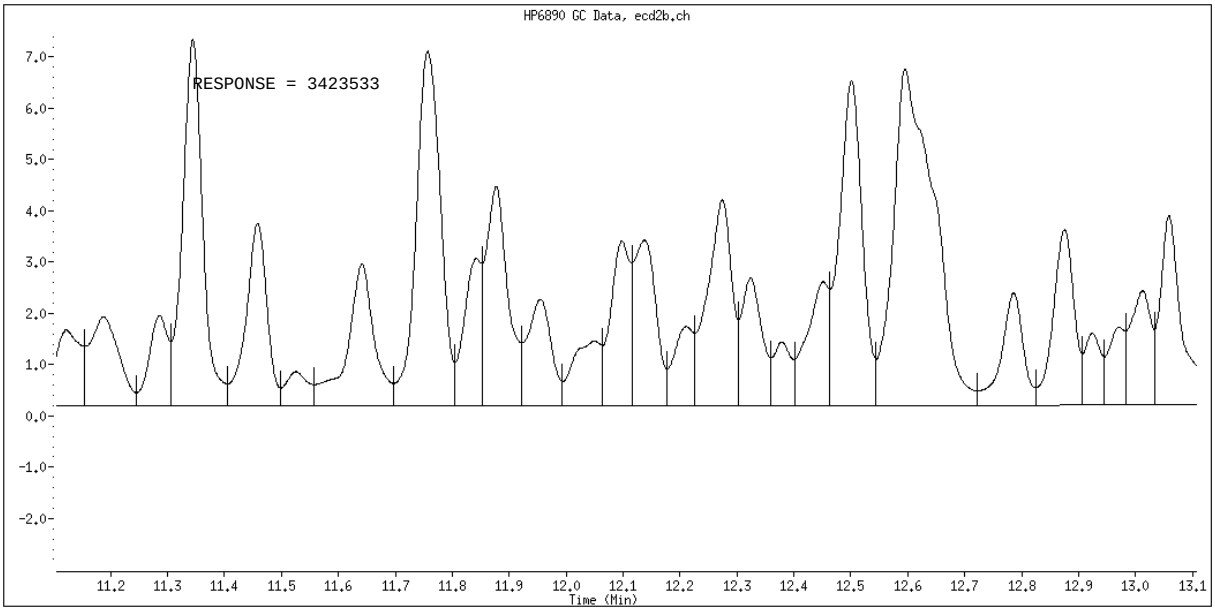
Operator: 093905 Date Acquired: 09-MAR-2010 14:13
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\014F1401.D
Lab Sample ID: TOX5 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.344	17710691	5.000	5.000

Data File Name: 014F1401.D
Inj. Date and Time: 09-MAR-2010 14:13
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/09/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Analyte not Identified by the Data System

FORM 8
PESTICIDES ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250463

GC Column: CLP PESTICIDES I ID: 0.53 (mm) Init. Calib. Date(s): 03/09/10 03/09/10

Instrument ID: A2HP9

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		PEM	03/11/10	1158		
02		AB3	03/11/10	1223		
03		MRL	03/11/10	1247		
04		TOX3 G268	03/11/10	1312		
05	ATASB-008-51	LV3KQ1AE	03/11/10	1603		
06	ATASB-008-51	LV3KQ1CC	03/11/10	1628		
07		TOX3 G268	03/11/10	1817		
08		AB3 G252	03/11/10	1841		
09		MRL	03/11/10	1906		
10						
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30						
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32						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 22-Mar-2010 14:50

Calibration History

Method : \\CANSVR11\DD\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Start Cal Date: 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
09-MAR-2010 12:34	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\010F1001.D
09-MAR-2010 09:45	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\003F0301.D
Cal Level: 2 , Cal Amount: 0.01000		
09-MAR-2010 12:58	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\011F1101.D
09-MAR-2010 10:09	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\004F0401.D
Cal Level: 3 , Cal Amount: 0.02500		
09-MAR-2010 13:23	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\012F1201.D
09-MAR-2010 10:33	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\005F0501.D
Cal Level: 4 , Cal Amount: 0.05000		
09-MAR-2010 13:48	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\013F1301.D
09-MAR-2010 10:57	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\006F0601.D
Cal Level: 5 , Cal Amount: 0.10000		
09-MAR-2010 14:13	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\014F1401.D
09-MAR-2010 11:20	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\007F0701.D
Cal Level: 6 , Cal Amount: 0.20000		
09-MAR-2010 11:44	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\008F0801.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

12-MAR-2010 00:24	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\057F5701.D
12-MAR-2010 00:00	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\056F5601.D
11-MAR-2010 18:41	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\043F4301.D
11-MAR-2010 18:17	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\042F4201.D
11-MAR-2010 13:12	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\030F3001.D
11-MAR-2010 12:23	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\028F2801.D
11-MAR-2010 08:21	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\018F1801.D
11-MAR-2010 07:57	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\017F1701.D
11-MAR-2010 01:48	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\005F0501.D
11-MAR-2010 01:25	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\004F0401.D
11-MAR-2010 01:02	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\003F0301.D

Report Date: 22-Mar-2010 14:50

Calibration History

Method : \\CANSVR11\DD\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Start Cal Date: 09-MAR-2010 09:45
End Cal Date : 09-MAR-2010 14:13
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
09-MAR-2010 12:34	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\010F1001.D
09-MAR-2010 09:45	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\003F0301.D
Cal Level: 2 , Cal Amount: 0.01000		
09-MAR-2010 12:58	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\011F1101.D
09-MAR-2010 10:09	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\004F0401.D
Cal Level: 3 , Cal Amount: 0.02500		
09-MAR-2010 13:23	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\012F1201.D
09-MAR-2010 10:33	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\005F0501.D
Cal Level: 4 , Cal Amount: 0.05000		
09-MAR-2010 13:48	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\013F1301.D
09-MAR-2010 10:57	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\006F0601.D
Cal Level: 5 , Cal Amount: 0.10000		
09-MAR-2010 14:13	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\014F1401.D
09-MAR-2010 11:20	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\007F0701.D
Cal Level: 6 , Cal Amount: 0.20000		
09-MAR-2010 11:44	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100309IC-1.b\100309IC-1.b\008F0801.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

12-MAR-2010 00:24	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\057F5701.D
12-MAR-2010 00:00	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\056F5601.D
11-MAR-2010 18:41	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\043F4301.D
11-MAR-2010 18:17	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\042F4201.D
12-MAR-2010 00:24	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\057F5701.D
12-MAR-2010 00:00	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\056F5601.D
11-MAR-2010 18:41	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\043F4301.D
11-MAR-2010 18:17	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\042F4201.D
11-MAR-2010 13:12	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\030F3001.D
11-MAR-2010 13:12	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\030F3001.D
11-MAR-2010 12:23	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\028F2801.D
11-MAR-2010 12:23	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\028F2801.D
11-MAR-2010 08:21	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\018F1801.D
11-MAR-2010 07:57	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\017F1701.D
11-MAR-2010 08:21	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\018F1801.D
11-MAR-2010 07:57	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\017F1701.D
11-MAR-2010 01:25	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\004F0401.D
11-MAR-2010 01:02	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\003F0301.D
11-MAR-2010 01:48	15-TECHLOR	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\005F0501.D
11-MAR-2010 01:25	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\004F0401.D
11-MAR-2010 01:02	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\003F0301.D

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b/027F2701.D
Report Date: 03/11/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 11-MAR-2010 11:58
Lab File ID: 027F2701.D Lab Sample ID: PEM
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
10.216	11762988	4,4'-DDT
8.5470	51373	4,4'-DDE
9.7254	171695	4,4'-DDD

Percent Degradation of 4,4'-DDT: 1.86

Endrin Degradation

RT	Area	Compound
9.4145	6248373	Endrin
10.590	199550	Endrin aldehyde
11.684	396584	Endrin ketone

Percent Degradation of Endrin: 8.71

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\027F2701.D
Lab Smp Id: PEM
Inj Date : 11-MAR-2010 11:58
Operator : 093905   Inst ID: a2hp9.i
Smp Info : PEM
Misc Info : 12-PEM.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Meth Date : 11-Mar-2010 12:39 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48   Cal File: 013F1301.D
Als bottle: 27   QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 12-PEM.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	1311626	0.01023	0.01023		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.923	4.922	0.001	1593198	0.01004	0.01004		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	390191	0.01003	0.01003		
16 4,4'-DDE						CAS #: 72-55-9	
8.547	8.547	0.000	51373	4.e-004	0.0004019		
18 Endrin						CAS #: 72-20-8	
9.414	9.414	0.000	2517682	0.05054	0.05054		
20 4,4'-DDD						CAS #: 72-54-8	
9.725	9.725	0.000	171695	0.00179	0.001791		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.216	10.217	-0.001	11762988	0.11241	0.1124		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.589	10.589	0.000	87076	0.00210	0.002101		

```
   27 Methoxychlor                                CAS #: 72-43-5
11.112  11.112    0.000        13654819 0.26968   0.2697
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.282  11.290   -0.008           43864  4e-004  0.0004383
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.683	11.684	-0.001	192147	0.00324	0.003240		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\027F2701.D

Date : 11-MAR-2010 11:58

Client ID:

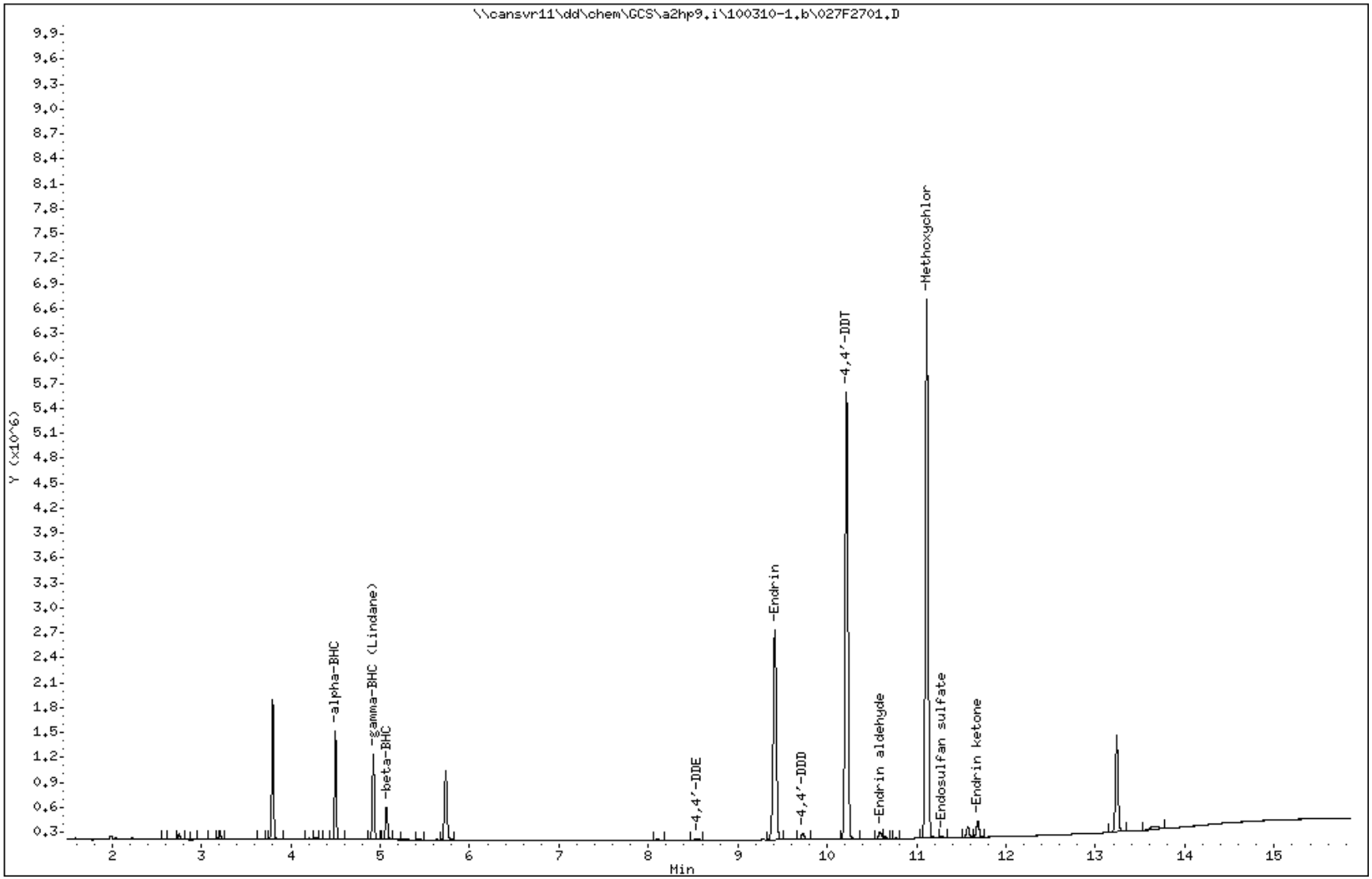
Instrument: a2hp9.i

Sample Info: PEM

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 11:58
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/027F2701.D
Lab Sample ID: PEM
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.500	1765034	0.010	0.010
5) gamma-BHC (Lindane)	4.924	1593198	0.010	0.010
6) beta-BHC	5.070	662709	0.010	0.010
16) 4,4'-DDE	8.547	51373	0.000	0.000
18) Endrin	9.415	6248373	0.051	0.051
20) 4,4'-DDD	9.725	171695	0.002	0.002
22) Endosulfan II	NOT DETECTED Expected RT = 9.836			
23) 4,4'-DDT	10.216	11762988	0.112	0.112
25) Endrin aldehyde	10.590	199550	0.002	0.002
27) Methoxychlor	11.113	13654819	0.270	0.270
28) Endosulfan sulfate	11.282	43864	0.000	0.000
29) Endrin ketone	11.684	396584	0.003	0.003

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 11-MAR-2010 12:23
Lab File ID: 028F2801.D Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:13
Lab Sample ID: AB3 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	81090080	86271040	86271040	0.000	-6.38914	15.00000	Averaged
4 alpha-BHC	128169275	139698440	139698440	0.010	-8.99526	15.00000	Averaged
5 gamma-BHC (Lindane)	158714774	167295080	167295080	0.010	-5.40612	15.00000	Averaged
6 beta-BHC	38898715	40852800	40852800	0.010	-5.02352	15.00000	Averaged
7 delta-BHC	155983743	169186360	169186360	0.010	-8.46410	15.00000	Averaged
8 Heptachlor	72446535	81354480	81354480	0.010	-12.29589	15.00000	Averaged
10 Aldrin	152173471	156630440	156630440	0.010	-2.92887	15.00000	Averaged
12 Heptachlor epoxide	44748664	47601880	47601880	0.010	-6.37609	15.00000	Averaged
13 gamma-Chlordane	47525948	50158920	50158920	0.010	-5.54007	15.00000	Averaged
14 alpha-Chlordane	48985463	51702520	51702520	0.010	-5.54666	15.00000	Averaged
15 Endosulfan I	46396156	50314080	50314080	0.010	-8.44450	15.00000	Averaged
16 4,4'-DDE	127811028	138331800	138331800	0.010	-8.23151	15.00000	Averaged
17 Dieldrin	136210438	143207520	143207520	0.010	-5.13696	15.00000	Averaged
18 Endrin	49813351	54994120	54994120	0.010	-10.40036	15.00000	Averaged
20 4,4'-DDD	95872953	108014440	108014440	0.010	-12.66414	15.00000	Averaged
22 Endosulfan II	49240798	53410480	53410480	0.010	-8.46794	15.00000	Averaged
23 4,4'-DDT	104646849	112188560	112188560	0.010	-7.20682	15.00000	Averaged
25 Endrin aldehyde	41443938	45134440	45134440	0.010	-8.90481	15.00000	Averaged
27 Methoxychlor	50633542	58193200	58193200	0.010	-14.93014	15.00000	Averaged
28 Endosulfan sulfate	100076584	110190640	110190640	0.010	-10.10632	15.00000	Averaged
29 Endrin ketone	59304453	63900480	63900480	0.010	-7.74989	15.00000	Averaged
$ 30 Decachlorobiphenyl	54184156	59459120	59459120	0.010	-9.73525	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 8.13383
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\028F2801.D
Lab Smp Id: AB3
Inj Date : 11-MAR-2010 12:23
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB3,,2
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Meth Date : 11-Mar-2010 12:39 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48   Cal File: 013F1301.D
Als bottle: 28   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.797	3.797	0.000	2156776	0.02500	0.02660		
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	3492461	0.02500	0.02725		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.922	4.922	0.000	4182377	0.02500	0.02635		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	1021320	0.02500	0.02626		
7 delta-BHC						CAS #: 319-86-8	
5.318	5.318	0.000	4229659	0.02500	0.02712		
		Sum of Peak Amounts =			0.02712		
8 Heptachlor						CAS #: 76-44-8	
5.643	5.643	0.000	2033862	0.02500	0.02807		
10 Aldrin						CAS #: 309-00-2	
6.171	6.171	0.000	3915761	0.02500	0.02573		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.607	7.607	0.000	1190047	0.02500	0.02659		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.909	7.909	0.000	1253973	0.02500	0.02638		
14 alpha-Chlordane						CAS #: 5103-71-9	

8.223 8.223 0.000 1292563 0.02500 0.02639

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15 Endosulfan I CAS #: 959-98-8

8.477 8.477 0.000 1257852 0.02500 0.02711

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.547	8.547	0.000	3458295	0.02500	0.02706		
17 Dieldrin					CAS #: 60-57-1		
8.989	8.989	0.000	3580188	0.02500	0.02628		
18 Endrin					CAS #: 72-20-8		
9.414	9.414	0.000	1374853	0.02500	0.02760		
20 4,4'-DDD					CAS #: 72-54-8		
9.725	9.725	0.000	2700361	0.02500	0.02817		
22 Endosulfan II					CAS #: 33213-65-9		
9.836	9.836	0.000	1335262	0.02500	0.02712		
23 4,4'-DDT					CAS #: 50-29-3		
10.217	10.217	0.000	2804714	0.02500	0.02680		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.589	10.589	0.000	1128361	0.02500	0.02723		
27 Methoxychlor					CAS #: 72-43-5		
11.112	11.112	0.000	1454830	0.02500	0.02873		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.290	11.290	0.000	2754766	0.02500	0.02753		
29 Endrin ketone					CAS #: 53494-70-5		
11.684	11.684	0.000	1597512	0.02500	0.02694		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.238	13.238	0.000	1486478	0.02500	0.02743		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\028F2801.D

Date : 11-MAR-2010 12:23

Client ID:

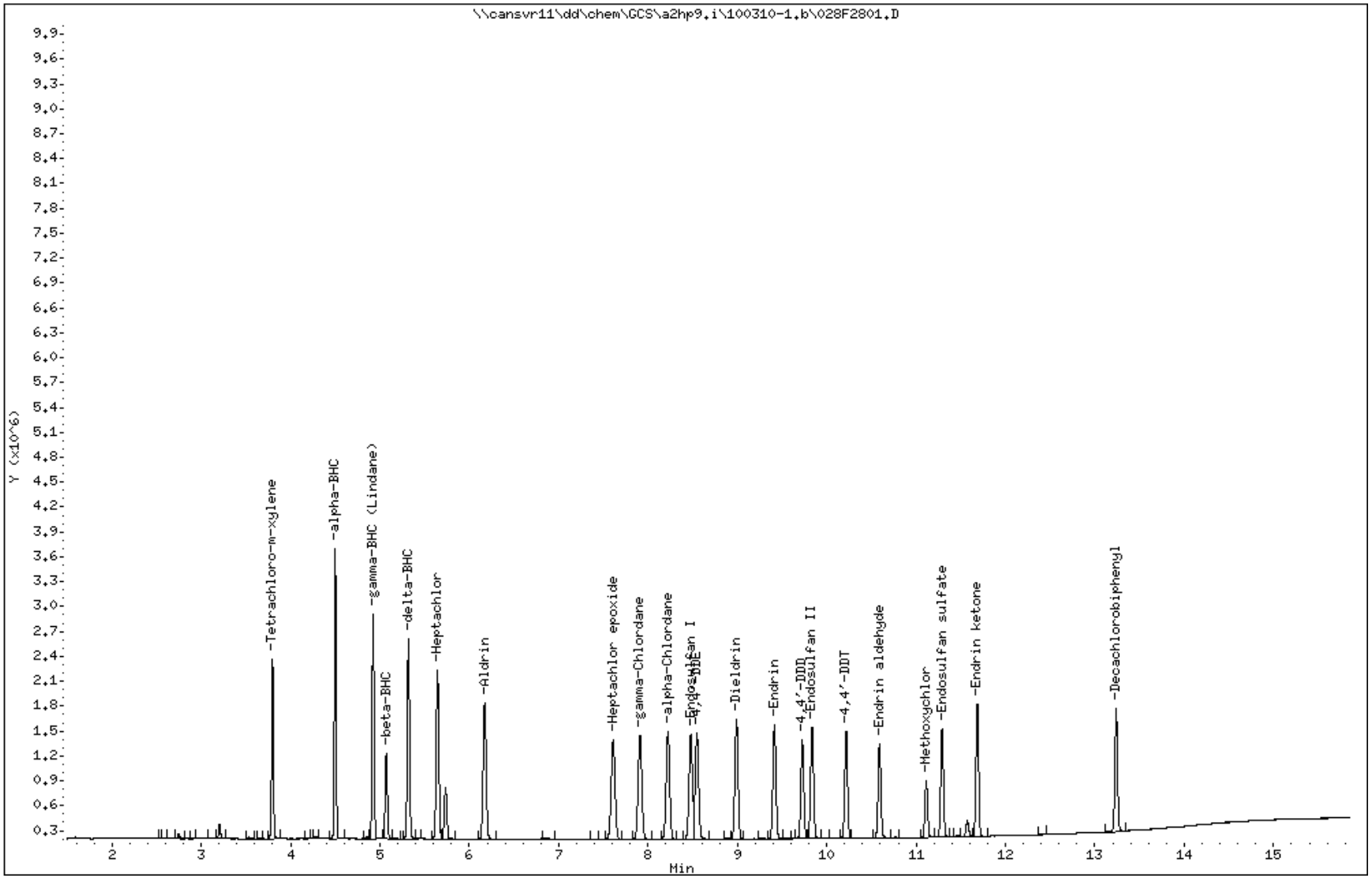
Instrument: a2hp9.i

Sample Info: AB3,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 12:23
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/028F2801.D
Lab Sample ID: AB3
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.798	2841797	0.027	0.027
4) alpha-BHC	4.500	4738517	0.027	0.027
5) gamma-BHC (Lindane)	4.923	4182377	0.026	0.026
6) beta-BHC	5.070	1720896	0.026	0.026
7) delta-BHC	5.319	4229659	0.027	0.027
8) Heptachlor	5.644	4139391	0.028	0.028
10) Aldrin	6.171	3915761	0.026	0.026
12) Heptachlor epoxide	7.608	3592303	0.027	0.027
13) gamma-Chlordane	7.910	3633450	0.026	0.026
14) alpha-Chlordane	8.224	3600229	0.026	0.026
15) Endosulfan I	8.478	3383001	0.027	0.027
16) 4,4'-DDE	8.547	3458295	0.027	0.027
17) Dieldrin	8.990	3580188	0.026	0.026
18) Endrin	9.415	3313525	0.028	0.028
20) 4,4'-DDD	9.725	2700361	0.028	0.028
22) Endosulfan II	9.836	3138787	0.027	0.027
23) 4,4'-DDT	10.217	2804714	0.027	0.027
25) Endrin aldehyde	10.590	2497415	0.027	0.027
27) Methoxychlor	11.113	1454830	0.029	0.029
28) Endosulfan sulfate	11.290	2754766	0.028	0.028
29) Endrin ketone	11.685	3283741	0.027	0.027
30) Decachlorobiphenyl	13.239	3043857	0.027	0.027

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\029F2901.D Page 1
Report Date: 11-Mar-2010 16:02

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004806	96.13	70-130
5 gamma-BHC (Lindane	0.005000	0.004922	98.45	70-130
6 beta-BHC	0.005000	0.005536	110.73	70-130
7 delta-BHC	0.005000	0.004866	97.32	70-130
8 Heptachlor	0.005000	0.005312	106.24	70-130
10 Aldrin	0.005000	0.004964	99.28	70-130
12 Heptachlor epoxide	0.005000	0.005292	105.83	70-130
13 gamma-Chlordane	0.005000	0.005116	102.32	70-130
14 alpha-Chlordane	0.005000	0.005202	104.03	70-130
15 Endosulfan I	0.005000	0.005344	106.88	70-130
16 4,4'-DDE	0.005000	0.005319	106.38	70-130
17 Dieldrin	0.005000	0.005013	100.26	70-130
18 Endrin	0.005000	0.005299	105.99	70-130
20 4,4'-DDD	0.005000	0.005277	105.53	70-130
22 Endosulfan II	0.005000	0.005407	108.13	70-130
23 4,4'-DDT	0.005000	0.005029	100.58	70-130
25 Endrin aldehyde	0.005000	0.005462	109.24	70-130
27 Methoxychlor	0.005000	0.005995	119.91	70-130
28 Endosulfan sulfate	0.005000	0.005657	113.14	70-130
29 Endrin ketone	0.005000	0.005478	109.56	70-130

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\029F2901.D
Lab Smp Id: MRL
Inj Date : 11-MAR-2010 12:47
Operator : 093905   Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Meth Date : 11-Mar-2010 13:28 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48   Cal File: 013F1301.D
Als bottle: 29   QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: mrl.sub
Target Version: 4.14   Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	616022	0.00481	0.004806		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.922	4.922	0.000	781238	0.00492	0.004922		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	215355	0.00554	0.005536		
7 delta-BHC						CAS #: 319-86-8	
5.318	5.318	0.000	758992	0.00487	0.004866		
Sum of Peak Concentrations = 0.004866							
8 Heptachlor						CAS #: 76-44-8	
5.643	5.643	0.000	384829	0.00531	0.005312		
10 Aldrin						CAS #: 309-00-2	

6.171 6.171 0.000 755422 0.00496 0.004964

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12 Heptachlor epoxide CAS #: 1024-57-3

7.607 7.607 0.000 236790 0.00529 0.005292

				CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
13 gamma-Chlordane						CAS #: 5103-74-2	
7.909	7.909	0.000	243143	0.00512	0.005116		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.221	8.223	-0.002	254799	0.00520	0.005202		
15 Endosulfan I						CAS #: 959-98-8	
8.476	8.477	-0.001	247933	0.00534	0.005344		
16 4,4'-DDE						CAS #: 72-55-9	
8.547	8.547	0.000	679804	0.00532	0.005319		
17 Dieldrin						CAS #: 60-57-1	
8.988	8.989	-0.001	682799	0.00501	0.005013		
18 Endrin						CAS #: 72-20-8	
9.414	9.414	0.000	263974	0.00530	0.005299		
20 4,4'-DDD						CAS #: 72-54-8	
9.727	9.725	0.002	505896	0.00528	0.005277		
22 Endosulfan II						CAS #: 33213-65-9	
9.836	9.836	0.000	266230	0.00541	0.005407		
23 4,4'-DDT						CAS #: 50-29-3	
10.215	10.217	-0.002	526275	0.00503	0.005029		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.590	10.589	0.001	226372	0.00546	0.005462		
27 Methoxychlor						CAS #: 72-43-5	
11.113	11.112	0.001	303571	0.00600	0.005995		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.290	11.290	0.000	566124	0.00566	0.005657		
29 Endrin ketone						CAS #: 53494-70-5	
11.683	11.684	-0.001	324875	0.00548	0.005478		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\029F2901.D

Date : 11-MAR-2010 12:47

Client ID:

Instrument: a2hp9.i

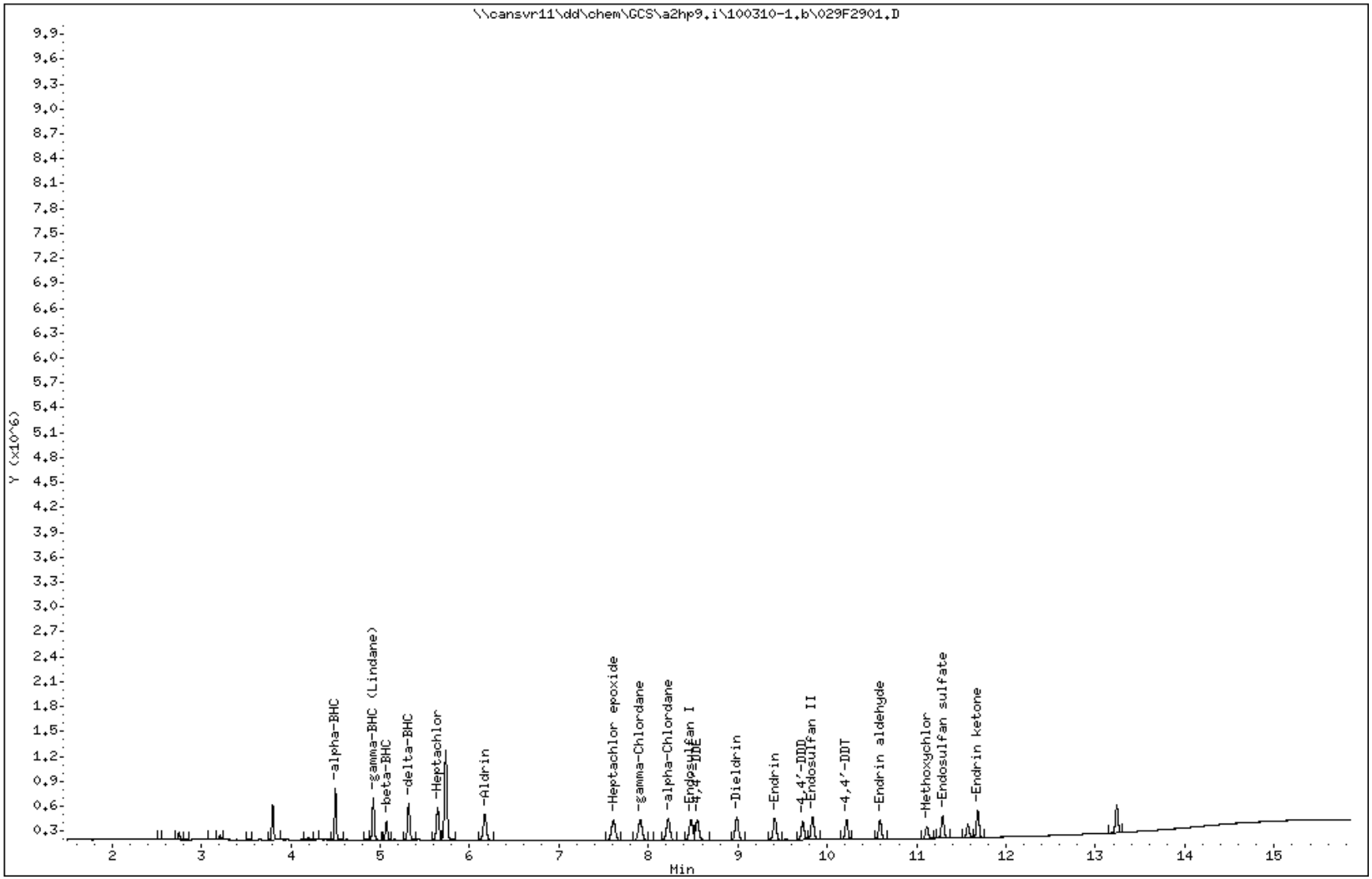
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 11-MAR-2010 13:12
Lab File ID: 030F3001.D Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:13
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
24 Toxaphene(1)	1838865	1912944	1912944	0.010	-4.02853	15.00000	Averaged
(2)	1843716	1868101	1868101	0.010	-1.32262	15.00000	Averaged
(3)	1615048	1649170	1649170	0.010	-2.11274	15.00000	Averaged
(4)	2351074	2380302	2380302	0.010	-1.24316	15.00000	Averaged
(5)	2235378	2265399	2265399	0.010	-1.34300	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.01001
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\030F3001.D
Lab Smp Id: TOX3 G268
Inj Date : 11-MAR-2010 13:12
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Meth Date : 11-Mar-2010 16:02 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
24 Toxaphene						CAS #: 8001-35-2		
9.960	9.960	0.000	1912944	1.00000	1.040	80.00- 120.00		100.00(M)
10.390	10.390	0.000	1868101	1.00000	1.013	114.04- 154.04		97.66
10.539	10.539	0.000	1649170	1.00000	1.021	115.64- 155.64		86.21
11.100	11.100	0.000	2380302	1.00000	1.012	52.78- 92.78		124.43
11.204	11.204	0.000	2265399	1.00000	1.013	69.36- 109.36		118.42
		Average of Peak Amounts =			1.01980			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\030F3001.D

Page 1

Date : 11-MAR-2010 13:12

Client ID:

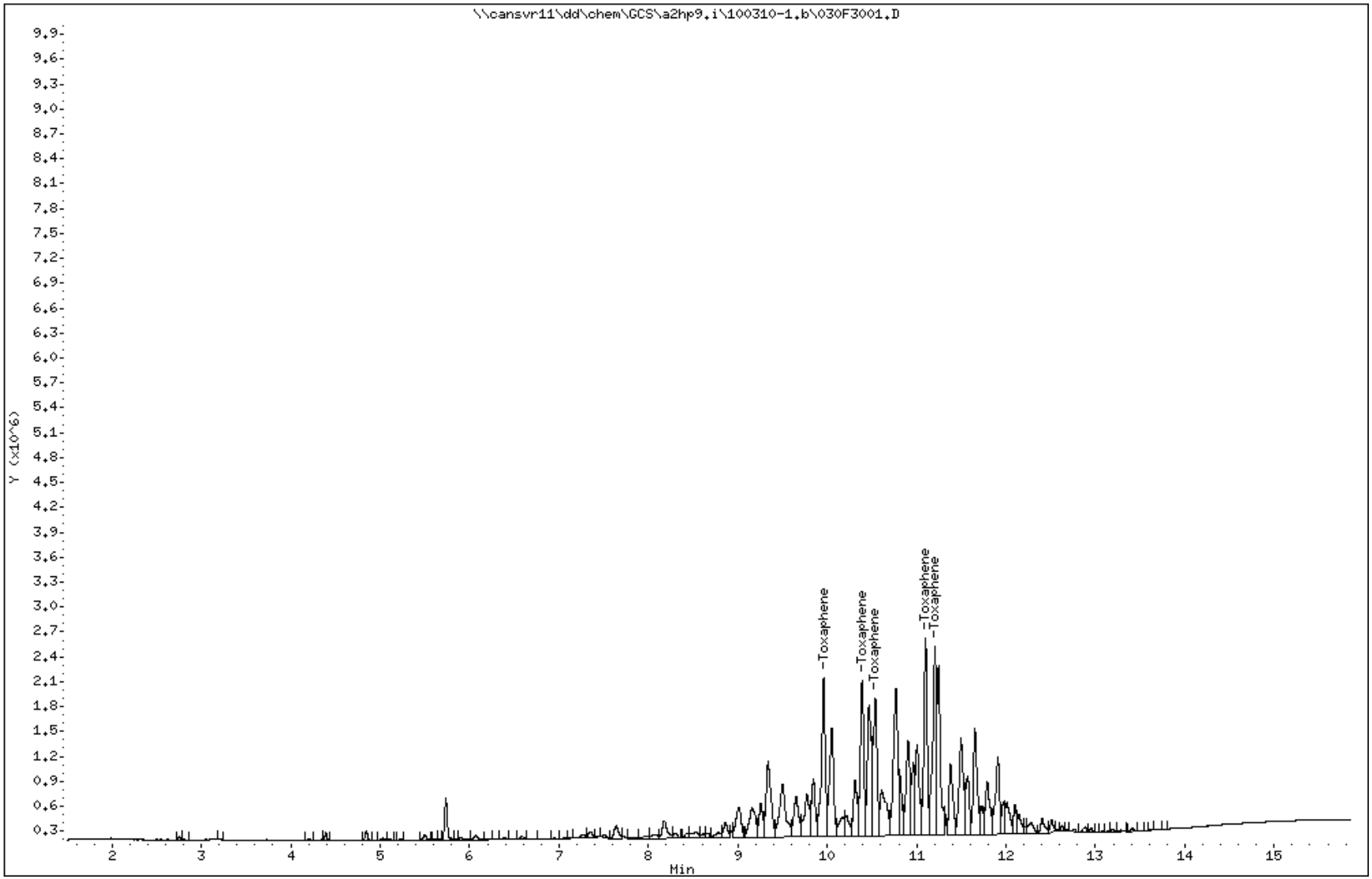
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

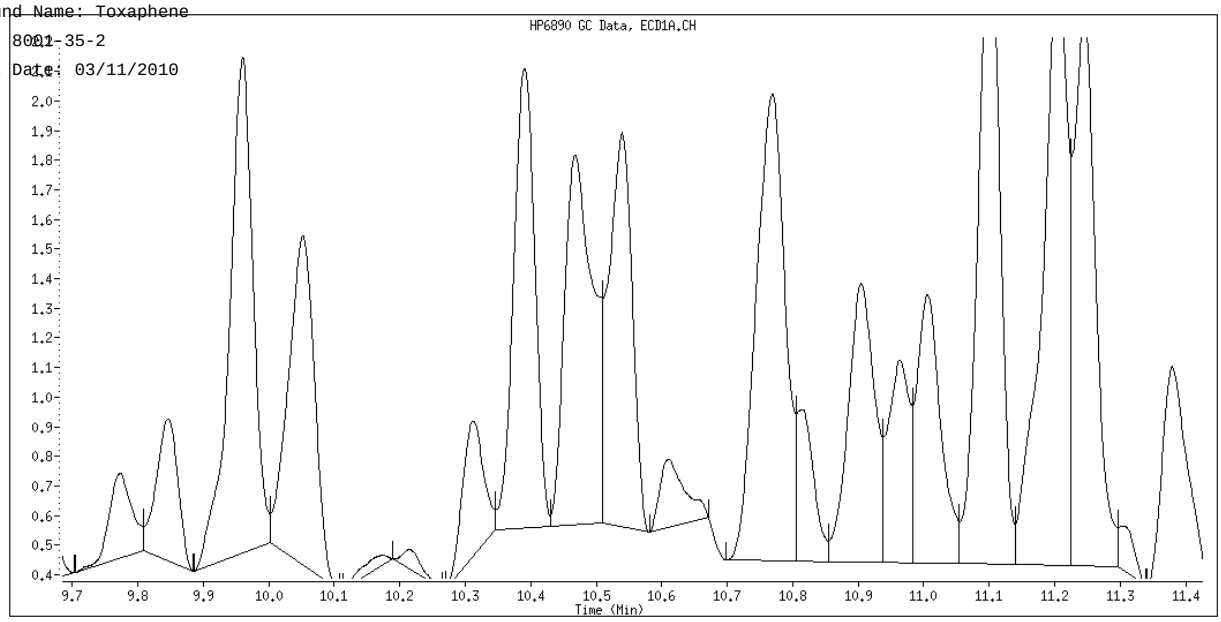


COMPOUNDS and EXP. RT REPORT

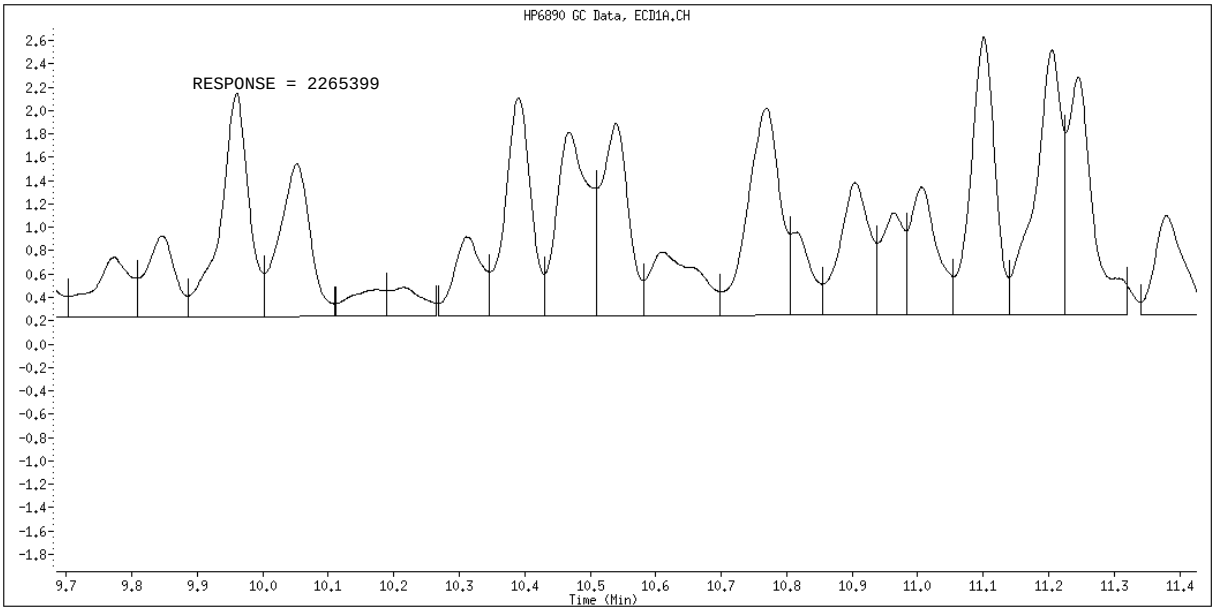
Operator: 093905 Date Acquired: 11-MAR-2010 13:12
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\030F3001.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.960	5782321	1.040	1.040

Data File Name: 030F3001.D
Inj. Date and Time: 11-MAR-2010 13:12
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/11/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 11-MAR-2010 18:17
Lab File ID: 042F4201.D Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:13
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
24 Toxaphene(1)	1838865	2004268	2004268	0.010	-8.99485	15.00000	Averaged
(2)	1843716	1930475	1930475	0.010	-4.70568	15.00000	Averaged
(3)	1615048	1676129	1676129	0.010	-3.78198	15.00000	Averaged
(4)	2351074	2370980	2370980	0.010	-0.84666	15.00000	Averaged
(5)	2235378	2214508	2214508	0.010	0.93362	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.85256
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\042F4201.D
Lab Smp Id: TOX3 G268
Inj Date : 11-MAR-2010 18:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Meth Date : 12-Mar-2010 06:23 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 42 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
24 Toxaphene						CAS #: 8001-35-2		
9.956	9.956	0.000	2004268	1.00000	1.090	80.00- 120.00		100.00
10.387	10.387	0.000	1930475	1.00000	1.047	114.04- 154.04		96.32
10.534	10.534	0.000	1676129	1.00000	1.038	115.64- 155.64		83.63
11.098	11.098	0.000	2370980	1.00000	1.008	52.78- 92.78		118.30
11.201	11.201	0.000	2214508	1.00000	0.9907	69.36- 109.36		110.49
		Average of Peak Amounts =			1.03474			

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\042F4201.D

Date : 11-MAR-2010 18:17

Client ID:

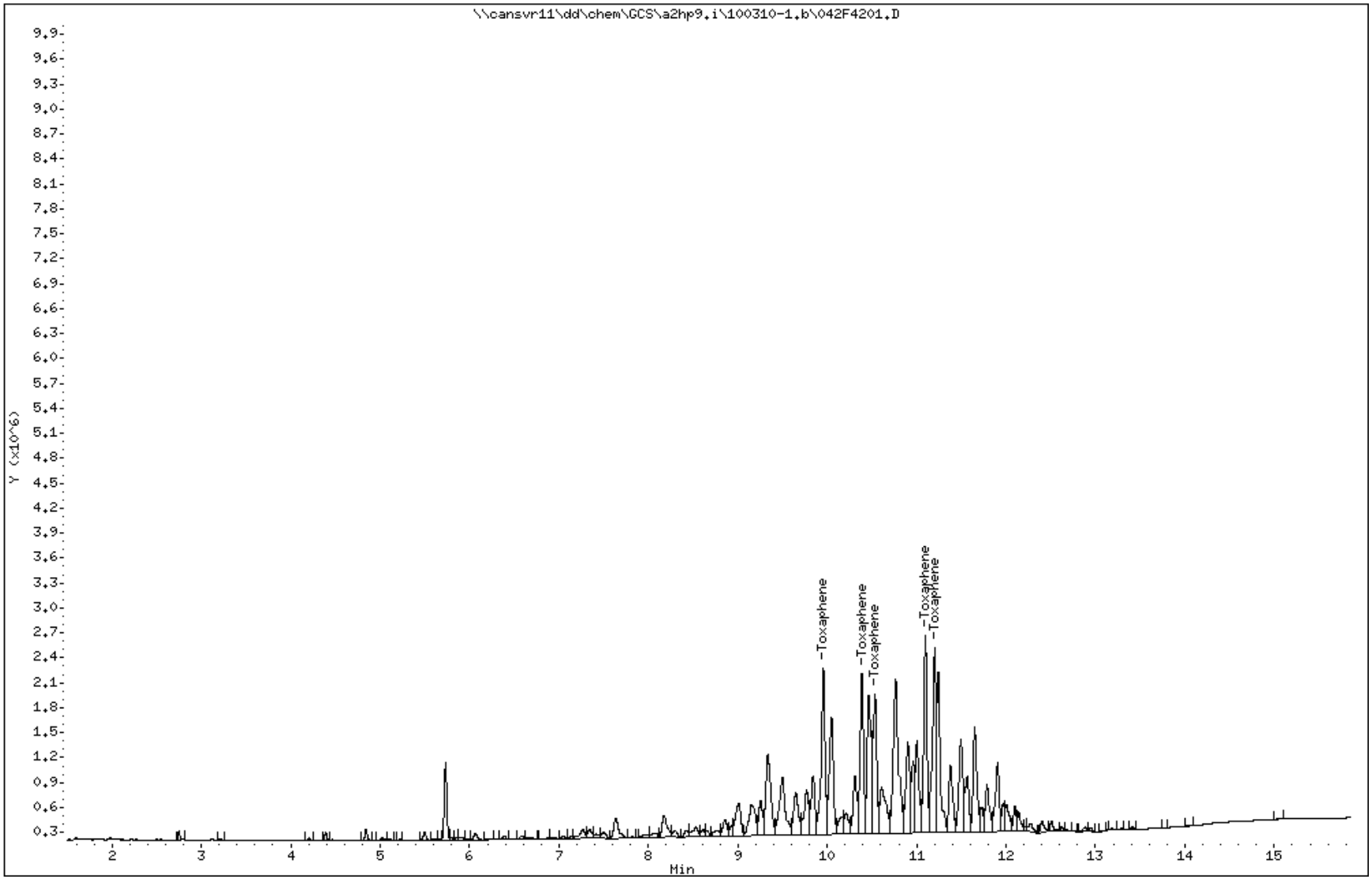
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 18:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/042F4201.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.956	5943718	1.090	1.090

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 11-MAR-2010 18:41
Lab File ID: 043F4301.D Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:13
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	81090080	81556400	81556400	0.000	-0.57506	15.00000	Averaged	
4 alpha-BHC	128169275	130881880	130881880	0.010	-2.11642	15.00000	Averaged	
5 gamma-BHC (Lindane)	158714774	160292440	160292440	0.010	-0.99403	15.00000	Averaged	
6 beta-BHC	38898715	39621800	39621800	0.010	-1.85889	15.00000	Averaged	
7 delta-BHC	155983743	164691320	164691320	0.010	-5.58236	15.00000	Averaged	
8 Heptachlor	72446535	79058520	79058520	0.010	-9.12671	15.00000	Averaged	
10 Aldrin	152173471	149139720	149139720	0.010	1.99361	15.00000	Averaged	
12 Heptachlor epoxide	44748664	46599360	46599360	0.010	-4.13576	15.00000	Averaged	
13 gamma-Chlordane	47525948	49141800	49141800	0.010	-3.39994	15.00000	Averaged	
14 alpha-Chlordane	48985463	50462120	50462120	0.010	-3.01448	15.00000	Averaged	
15 Endosulfan I	46396156	49058080	49058080	0.010	-5.73738	15.00000	Averaged	
16 4,4'-DDE	127811028	136644680	136644680	0.010	-6.91149	15.00000	Averaged	
17 Dieldrin	136210438	141253880	141253880	0.010	-3.70268	15.00000	Averaged	
18 Endrin	49813351	54842760	54842760	0.010	-10.09651	15.00000	Averaged	
20 4,4'-DDD	95872953	114424160	114424160	0.010	-19.34978	15.00000	Averaged	<-
22 Endosulfan II	49240798	53706920	53706920	0.010	-9.06996	15.00000	Averaged	
23 4,4'-DDT	104646849	102989160	102989160	0.010	1.58408	15.00000	Averaged	
25 Endrin aldehyde	41443938	45022000	45022000	0.010	-8.63350	15.00000	Averaged	
27 Methoxychlor	50633542	55596080	55596080	0.010	-9.80089	15.00000	Averaged	
28 Endosulfan sulfate	100076584	110532760	110532760	0.010	-10.44817	15.00000	Averaged	
29 Endrin ketone	59304453	64133240	64133240	0.010	-8.14237	15.00000	Averaged	
$ 30 Decachlorobiphenyl	54184156	58465280	58465280	0.010	-7.90106	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 6.09887
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\043F4301.D
Lab Smp Id: AB3 G252
Inj Date : 11-MAR-2010 18:41
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Meth Date : 12-Mar-2010 06:23 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48   Cal File: 013F1301.D
Als bottle: 43   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.SUB
Target Version: 4.14   Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.797	3.797	0.000	2038910	0.02500	0.02514		
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	3272047	0.02500	0.02553		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.922	4.922	0.000	4007311	0.02500	0.02525		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	990545	0.02500	0.02546		
7 delta-BHC						CAS #: 319-86-8	
5.317	5.317	0.000	4117283	0.02500	0.02640		
		Sum of Peak Amounts =			0.02640		
8 Heptachlor						CAS #: 76-44-8	
5.642	5.642	0.000	1976463	0.02500	0.02728		
10 Aldrin						CAS #: 309-00-2	
6.171	6.171	0.000	3728493	0.02500	0.02450		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.608	7.608	0.000	1164984	0.02500	0.02603		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.909	7.909	0.000	1228545	0.02500	0.02585		
14 alpha-Chlordane						CAS #: 5103-71-9	

8.221 8.221 0.000 1261553 0.02500 0.02575

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15 Endosulfan I CAS #: 959-98-8

8.477 8.477 0.000 1226452 0.02500 0.02643

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.546	8.546	0.000	3416117	0.02500	0.02673		
17 Dieldrin					CAS #: 60-57-1		
8.988	8.988	0.000	3531347	0.02500	0.02592		
18 Endrin					CAS #: 72-20-8		
9.413	9.413	0.000	1371069	0.02500	0.02752		
20 4,4'-DDD					CAS #: 72-54-8		
9.724	9.724	0.000	2860604	0.02500	0.02984		
22 Endosulfan II					CAS #: 33213-65-9		
9.834	9.834	0.000	1342673	0.02500	0.02727		
23 4,4'-DDT					CAS #: 50-29-3		
10.215	10.215	0.000	2574729	0.02500	0.02460		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.588	10.588	0.000	1125550	0.02500	0.02716		
27 Methoxychlor					CAS #: 72-43-5		
11.112	11.112	0.000	1389902	0.02500	0.02745		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.289	11.289	0.000	2763319	0.02500	0.02761		
29 Endrin ketone					CAS #: 53494-70-5		
11.682	11.682	0.000	1603331	0.02500	0.02704		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.237	13.237	0.000	1461632	0.02500	0.02698		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\043F4301.D

Date : 11-MAR-2010 18:41

Client ID:

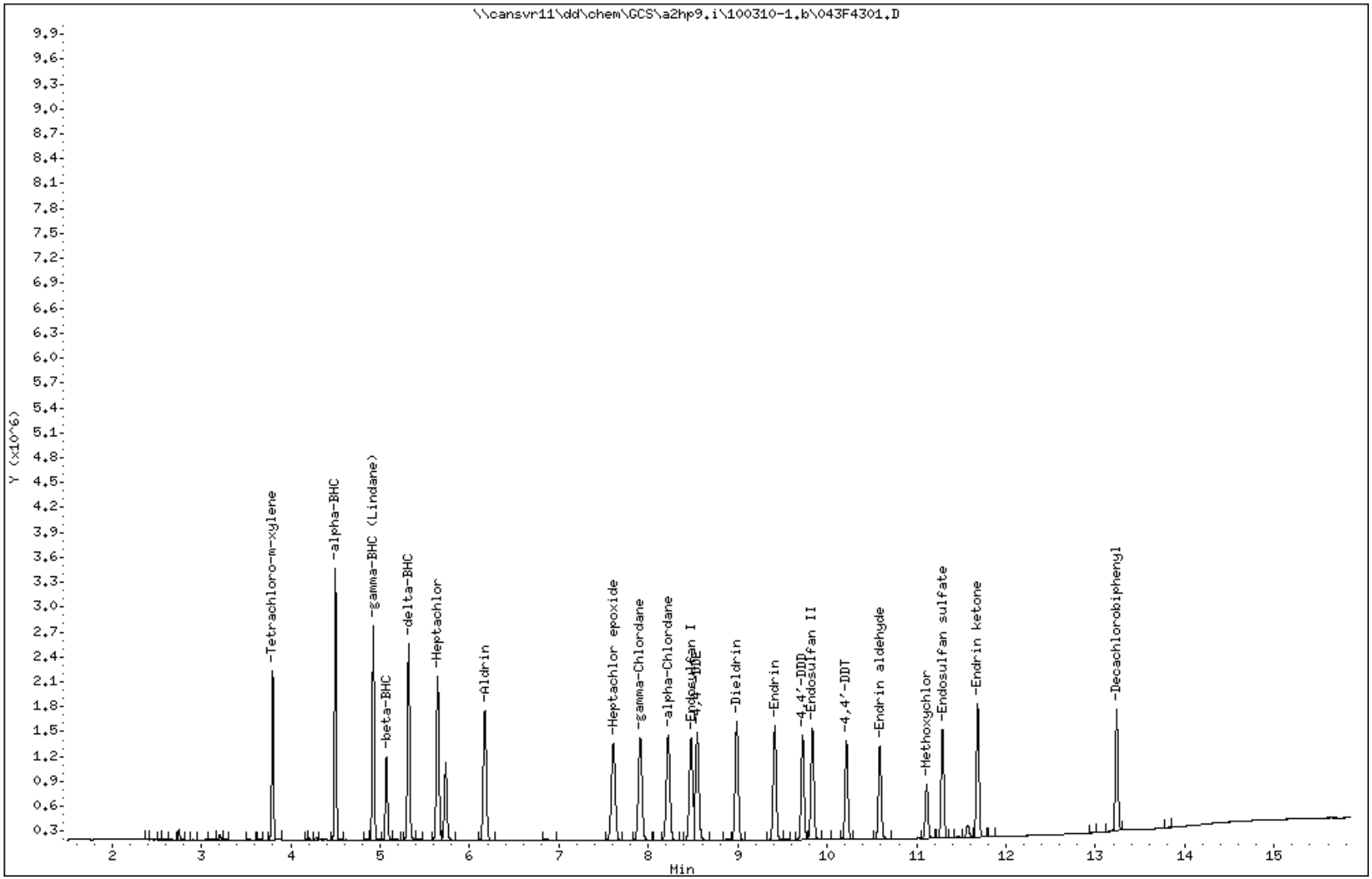
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 18:41
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/043F4301.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.798	2696294	0.025	0.025
4) alpha-BHC	4.499	4509671	0.026	0.026
5) gamma-BHC (Lindane)	4.923	4007311	0.025	0.025
6) beta-BHC	5.070	1672253	0.025	0.025
7) delta-BHC	5.318	4117283	0.026	0.026
8) Heptachlor	5.643	3986127	0.027	0.027
10) Aldrin	6.171	3728493	0.025	0.025
12) Heptachlor epoxide	7.609	3503807	0.026	0.026
13) gamma-Chlordane	7.909	3557186	0.026	0.026
14) alpha-Chlordane	8.221	3527029	0.026	0.026
15) Endosulfan I	8.478	3318742	0.026	0.026
16) 4,4'-DDE	8.546	3416117	0.027	0.027
17) Dieldrin	8.989	3531347	0.026	0.026
18) Endrin	9.414	3300131	0.028	0.028
20) 4,4'-DDD	9.724	2860604	0.030	0.030
22) Endosulfan II	9.834	3141928	0.027	0.027
23) 4,4'-DDT	10.215	2574729	0.025	0.025
25) Endrin aldehyde	10.589	2491476	0.027	0.027
27) Methoxychlor	11.113	1389902	0.027	0.027
28) Endosulfan sulfate	11.289	2763319	0.028	0.028
29) Endrin ketone	11.683	3281021	0.027	0.027
30) Decachlorobiphenyl	13.238	2932712	0.027	0.027

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004886	97.72	70-130
5 gamma-BHC (Lindane	0.005000	0.005000	100.00	70-130
6 beta-BHC	0.005000	0.005670	113.41	70-130
7 delta-BHC	0.005000	0.005056	101.13	70-130
8 Heptachlor	0.005000	0.005378	107.56	70-130
10 Aldrin	0.005000	0.005033	100.67	70-130
12 Heptachlor epoxide	0.005000	0.005398	107.95	70-130
13 gamma-Chlordane	0.005000	0.005306	106.11	70-130
14 alpha-Chlordane	0.005000	0.005371	107.41	70-130
15 Endosulfan I	0.005000	0.005505	110.10	70-130
16 4,4'-DDE	0.005000	0.005438	108.76	70-130
17 Dieldrin	0.005000	0.005224	104.48	70-130
18 Endrin	0.005000	0.005524	110.48	70-130
20 4,4'-DDD	0.005000	0.005975	119.51	70-130
22 Endosulfan II	0.005000	0.005733	114.66	70-130
23 4,4'-DDT	0.005000	0.004953	99.06	70-130
25 Endrin aldehyde	0.005000	0.005988	119.77	70-130
27 Methoxychlor	0.005000	0.006113	122.25	70-130
28 Endosulfan sulfate	0.005000	0.006107	122.15	70-130
29 Endrin ketone	0.005000	0.005902	118.05	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\044F4401.D
Lab Smp Id: MRL
Inj Date : 11-MAR-2010 19:06
Operator : 093905   Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Meth Date : 12-Mar-2010 06:23 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48   Cal File: 013F1301.D
Als bottle: 44   QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: mrl.sub
Target Version: 4.14   Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.499	0.000	626221	0.00489	0.004886		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.923	4.922	0.001	793550	0.00500	0.005000		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.070	0.000	220577	0.00567	0.005670		
7 delta-BHC						CAS #: 319-86-8	
5.318	5.317	0.001	788700	0.00506	0.005056		
		Sum of Peak Concentrations = 0.005056					
8 Heptachlor						CAS #: 76-44-8	
5.644	5.642	0.002	389603	0.00538	0.005378		
10 Aldrin						CAS #: 309-00-2	

```
6.171    6.171    0.000          765959 0.00503  0.005033
--------------------------------------------------------------------------------
   12 Heptachlor epoxide                          CAS #: 1024-57-3
7.609    7.608    0.001          241532 0.00540  0.005398
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
7.908	7.909	-0.001	252156	0.00531	0.005306		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.221	8.221	0.000	263084	0.00537	0.005371		
15 Endosulfan I					CAS #: 959-98-8		
8.477	8.477	0.000	255406	0.00550	0.005505		
16 4,4'-DDE					CAS #: 72-55-9		
8.546	8.546	0.000	695042	0.00544	0.005438		
17 Dieldrin					CAS #: 60-57-1		
8.988	8.988	0.000	711580	0.00522	0.005224		
18 Endrin					CAS #: 72-20-8		
9.414	9.413	0.001	275166	0.00552	0.005524		
20 4,4'-DDD					CAS #: 72-54-8		
9.725	9.724	0.001	572878	0.00598	0.005975		
22 Endosulfan II					CAS #: 33213-65-9		
9.834	9.834	0.000	282304	0.00573	0.005733		
23 4,4'-DDT					CAS #: 50-29-3		
10.216	10.215	0.001	518313	0.00495	0.004953		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.589	10.588	0.001	248177	0.00599	0.005988		
27 Methoxychlor					CAS #: 72-43-5		
11.114	11.112	0.002	309504	0.00611	0.006113		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.290	11.289	0.001	611207	0.00611	0.006107		
29 Endrin ketone					CAS #: 53494-70-5		
11.684	11.682	0.002	350044	0.00590	0.005902		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\044F4401.D

Date : 11-MAR-2010 19:06

Client ID:

Instrument: a2hp9.i

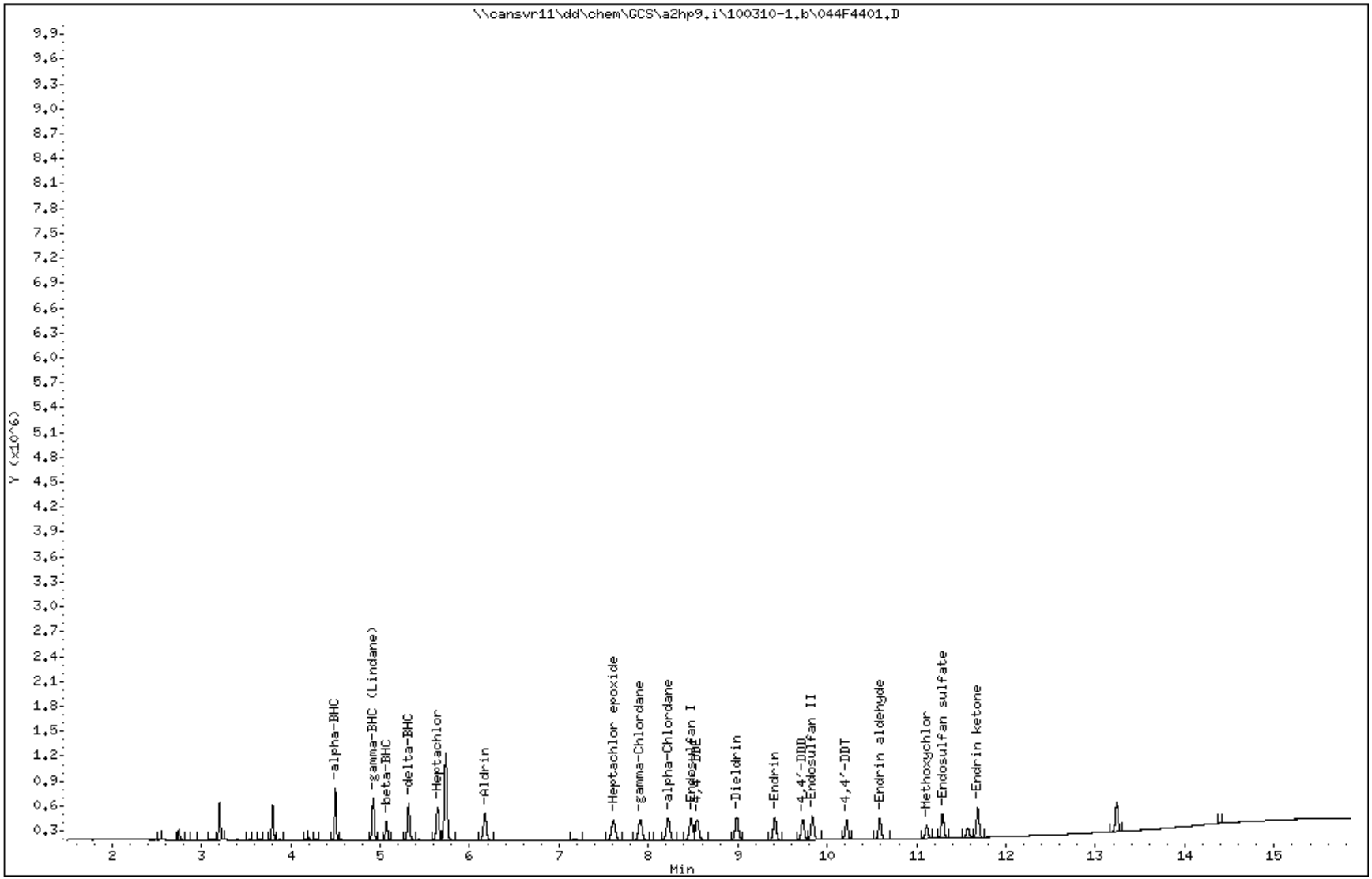
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b/027F2701.D
Report Date: 03/11/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 11-MAR-2010 11:58
Lab File ID: 027F2701.D Lab Sample ID: PEM
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PES

4,4'-DDT Degradation

RT	Area	Compound
11.632	5781273	4,4'-DDT
10.179	35486	4,4'-DDE
11.149	108241	4,4'-DDD

Percent Degradation of 4,4'-DDT: 2.43

Endrin Degradation

RT	Area	Compound
10.834	3216781	Endrin
11.740	119672	Endrin aldehyde
12.897	266812	Endrin ketone

Percent Degradation of Endrin: 10.73

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Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\027F2701.D
Lab Smp Id: PEM
Inj Date : 11-MAR-2010 11:58
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Mar-2010 12:39 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 27 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.292	5.292	0.000	1004676	0.00958	0.009581		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.948	5.948	0.000	928609	0.00978	0.009780		
6 beta-BHC						CAS #: 319-85-7	
6.154	6.154	0.000	420980	0.01029	0.01029		
16 4,4'-DDE						CAS #: 72-55-9	
10.178	10.177	0.001	13203	4e-004	0.0004353		
18 Endrin						CAS #: 72-20-8	
10.833	10.833	0.000	3216781	0.04912	0.04912		
21 4,4'-DDD						CAS #: 72-54-8	
11.148	11.149	-0.001	44674	0.00183	0.001834		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT						CAS #: 50-29-3	
11.632	11.632	0.000	2931240	0.11169	0.1117		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.740	11.739	0.001	119672	0.00240	0.002396		

```
   27 Methoxychlor                                CAS #: 72-43-5
12.680  12.680    0.000         6982013 0.27011   0.2701
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

12.897	12.899	-0.002	266812	0.00397	0.003974		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\027F2701.D

Date : 11-MAR-2010 11:58

Client ID:

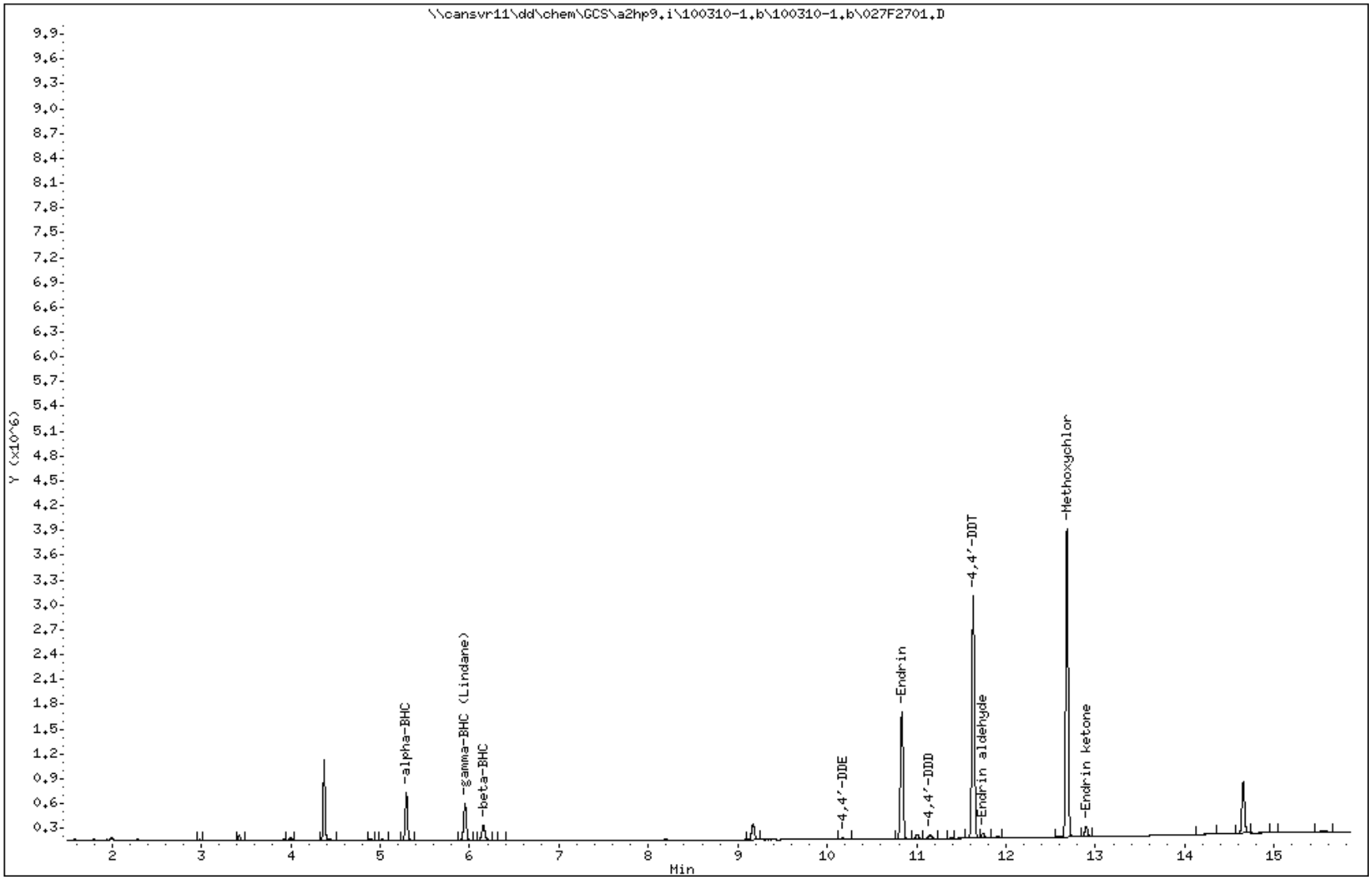
Instrument: a2hp9.i

Sample Info: PEM

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 11:58
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/100310-1.b/027F2701.D
Lab Sample ID: PEM
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.293	1004676	0.010	0.010
5) gamma-BHC (Lindane)	5.949	928609	0.010	0.010
6) beta-BHC	6.155	420980	0.010	0.010
16) 4,4'-DDE	10.179	35486	0.000	0.000
18) Endrin	10.834	3216781	0.049	0.049
21) 4,4'-DDD	11.149	108241	0.002	0.002
22) Endosulfan II	NOT DETECTED	Expected RT = 11.194		
24) 4,4'-DDT	11.632	5781273	0.112	0.112
25) Endrin aldehyde	11.740	119672	0.002	0.002
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.163		
27) Methoxychlor	12.680	6982013	0.270	0.270
29) Endrin ketone	12.897	266812	0.004	0.004

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 11-MAR-2010 12:23
Lab File ID: 028F2801.D Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:13
Lab Sample ID: AB3 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	47336546	49647680	49647680	0.000	-4.88235	15.00000	Averaged
4 alpha-BHC	104856914	108420120	108420120	0.010	-3.39816	15.00000	Averaged
5 gamma-BHC (Lindane)	94949224	97902000	97902000	0.010	-3.10985	15.00000	Averaged
6 beta-BHC	40895578	43028600	43028600	0.010	-5.21578	15.00000	Averaged
7 delta-BHC	91704037	97118400	97118400	0.010	-5.90417	15.00000	Averaged
8 Heptachlor	89211277	93680240	93680240	0.010	-5.00942	15.00000	Averaged
10 Aldrin	29623735	30343000	30343000	0.010	-2.42800	15.00000	Averaged
12 Heptachlor epoxide	79177946	81532520	81532520	0.010	-2.97378	15.00000	Averaged
13 gamma-Chlordane	78585921	79174760	79174760	0.010	-0.74929	15.00000	Averaged
14 alpha-Chlordane	77232483	79371960	79371960	0.010	-2.77018	15.00000	Averaged
15 Endosulfan I	72167948	73792800	73792800	0.010	-2.25149	15.00000	Averaged
16 4,4'-DDE	30331952	32963280	32963280	0.010	-8.67510	15.00000	Averaged
17 Dieldrin	75273213	76694320	76694320	0.010	-1.88793	15.00000	Averaged
18 Endrin	65488818	70016760	70016760	0.010	-6.91407	15.00000	Averaged
21 4,4'-DDD	24360733	27938200	27938200	0.010	-14.68539	15.00000	Averaged
22 Endosulfan II	30446408	32430400	32430400	0.010	-6.51634	15.00000	Averaged
24 4,4'-DDT	26244082	28084160	28084160	0.010	-7.01140	15.00000	Averaged
25 Endrin aldehyde	49938064	55374000	55374000	0.010	-10.88536	15.00000	Averaged
26 Endosulfan sulfate	27377818	29859480	29859480	0.010	-9.06450	15.00000	Averaged
27 Methoxychlor	25848556	29174280	29174280	0.010	-12.86619	15.00000	Averaged
29 Endrin ketone	67145730	73615960	73615960	0.010	-9.63610	15.00000	Averaged
$ 30 Decachlorobiphenyl	59519090	65439920	65439920	0.010	-9.94778	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.21739
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\028F2801.D
Lab Smp Id: AB3
Inj Date : 11-MAR-2010 12:23
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3,,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Mar-2010 13:13 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.372	4.372	0.000	1241192	0.02500	0.02622		
4 alpha-BHC						CAS #: 319-84-6	
5.292	5.292	0.000	2710503	0.02500	0.02585		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.948	5.948	0.000	2447550	0.02500	0.02578		
6 beta-BHC						CAS #: 319-85-7	
6.154	6.154	0.000	1075715	0.02500	0.02630		
7 delta-BHC						CAS #: 319-86-8	
6.811	6.811	0.000	2427960	0.02500	0.02648		
8 Heptachlor						CAS #: 76-44-8	
6.928	6.928	0.000	2342006	0.02500	0.02625		
10 Aldrin						CAS #: 309-00-2	
7.755	7.755	0.000	758575	0.02500	0.02561		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.100	9.100	0.000	2038313	0.02500	0.02574		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.485	9.485	0.000	1979369	0.02500	0.02519		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.771	9.771	0.000	1984299	0.02500	0.02569		

```
--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.835    9.835    0.000         1844820 0.02500  0.02556
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.177	10.177	0.000	824082	0.02500	0.02717		
17 Dieldrin					CAS #: 60-57-1		
10.332	10.332	0.000	1917358	0.02500	0.02547		
18 Endrin					CAS #: 72-20-8		
10.833	10.833	0.000	1750419	0.02500	0.02673		
21 4,4'-DDD					CAS #: 72-54-8		
11.149	11.149	0.000	698455	0.02500	0.02867		
22 Endosulfan II					CAS #: 33213-65-9		
11.194	11.194	0.000	810760	0.02500	0.02663		
24 4,4'-DDT					CAS #: 50-29-3		
11.632	11.632	0.000	702104	0.02500	0.02675		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.739	11.739	0.000	1384350	0.02500	0.02772		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.162	12.162	0.000	746487	0.02500	0.02727		
27 Methoxychlor					CAS #: 72-43-5		
12.680	12.680	0.000	729357	0.02500	0.02822		
29 Endrin ketone					CAS #: 53494-70-5		
12.899	12.899	0.000	1840399	0.02500	0.02741		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.652	14.652	0.000	1635998	0.02500	0.02749		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\028F2801.D

Date : 11-MAR-2010 12:23

Client ID:

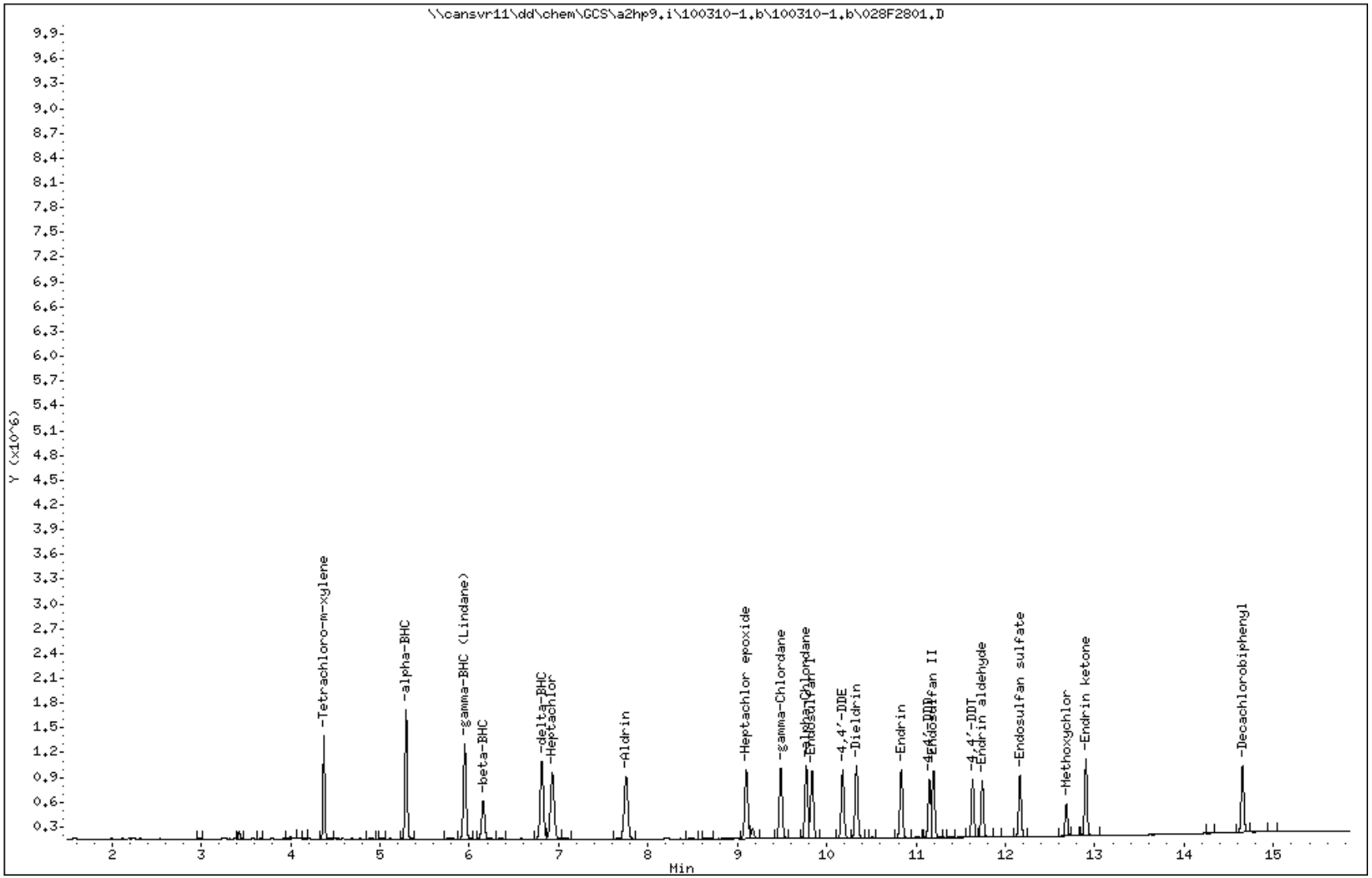
Instrument: a2hp9.i

Sample Info: AB3,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 12:23
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/100310-1.b/028F2801.D
Lab Sample ID: AB3
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.373	1678046	0.026	0.026
4) alpha-BHC	5.293	2710503	0.026	0.026
5) gamma-BHC (Lindane)	5.949	2447550	0.026	0.026
6) beta-BHC	6.155	1075715	0.026	0.026
7) delta-BHC	6.811	2427960	0.026	0.026
8) Heptachlor	6.929	2342006	0.026	0.026
10) Aldrin	7.755	2255732	0.026	0.026
12) Heptachlor epoxide	9.100	2038313	0.026	0.026
13) gamma-Chlordane	9.485	1979369	0.025	0.025
14) alpha-Chlordane	9.771	1984299	0.026	0.026
15) Endosulfan I	9.835	1844820	0.026	0.026
16) 4,4'-DDE	10.178	1815825	0.027	0.027
17) Dieldrin	10.333	1917358	0.025	0.025
18) Endrin	10.834	1750419	0.027	0.027
21) 4,4'-DDD	11.150	1363020	0.029	0.029
22) Endosulfan II	11.195	1716688	0.027	0.027
24) 4,4'-DDT	11.633	1399402	0.027	0.027
25) Endrin aldehyde	11.740	1384350	0.028	0.028
26) Endosulfan sulfate	12.162	1500348	0.027	0.027
27) Methoxychlor	12.680	729357	0.028	0.028
29) Endrin ketone	12.900	1840399	0.027	0.027
30) Decachlorobiphenyl	14.653	1635998	0.027	0.027

Report Date: 11-Mar-2010 16:05

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004647	92.95	70-130
5 gamma-BHC (Lindane	0.005000	0.004887	97.74	70-130
6 beta-BHC	0.005000	0.005698	113.95	70-130
7 delta-BHC	0.005000	0.004838	96.76	70-130
8 Heptachlor	0.005000	0.005226	104.53	70-130
10 Aldrin	0.005000	0.004771	95.43	70-130
12 Heptachlor epoxide	0.005000	0.005240	104.81	70-130
13 gamma-Chlordane	0.005000	0.005081	101.62	70-130
14 alpha-Chlordane	0.005000	0.005240	104.80	70-130
15 Endosulfan I	0.005000	0.005270	105.40	70-130
16 4,4'-DDE	0.005000	0.005184	103.69	70-130
17 Dieldrin	0.005000	0.005071	101.43	70-130
18 Endrin	0.005000	0.005288	105.75	70-130
21 4,4'-DDD	0.005000	0.005428	108.56	70-130
22 Endosulfan II	0.005000	0.005497	109.95	70-130
24 4,4'-DDT	0.005000	0.005166	103.32	70-130
25 Endrin aldehyde	0.005000	0.005714	114.27	70-130
26 Endosulfan sulfate	0.005000	0.005683	113.67	70-130
27 Methoxychlor	0.005000	0.005751	115.02	70-130
29 Endrin ketone	0.005000	0.006129	122.59	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\029F2901.D
Lab Smp Id: MRL
Inj Date : 11-MAR-2010 12:47
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Mar-2010 13:28 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 29 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.292	5.292	0.000	487310	0.00465	0.004647		
55 DDD/Endosulfan II						CAS #: 72-54-8/332-65-	

Peaks not detected for Quant. or Qual. signal(s).

5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.948	5.948	0.000	463994	0.00489	0.004887		
6 beta-BHC						CAS #: 319-85-7	
6.153	6.154	-0.001	233009	0.00570	0.005698		
7 delta-BHC						CAS #: 319-86-8	
6.810	6.811	-0.001	443665	0.00484	0.004838		

```
    8 Heptachlor                                    CAS #: 76-44-8
6.927    6.928   -0.001          466248 0.00523  0.005226
--------------------------------------------------------------------------------
   10 Aldrin                                        CAS #: 309-00-2
7.752    7.755   -0.003          141347 0.00477  0.004771
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.099	9.100	-0.001	414917	0.00524	0.005240		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.484	9.485	-0.001	399300	0.00508	0.005081		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.770	9.771	-0.001	404682	0.00524	0.005240		
15 Endosulfan I					CAS #: 959-98-8		
9.834	9.835	-0.001	380326	0.00527	0.005270		
16 4,4'-DDE					CAS #: 72-55-9		
10.177	10.177	0.000	157255	0.00518	0.005184		
17 Dieldrin					CAS #: 60-57-1		
10.332	10.332	0.000	381735	0.00507	0.005071		
18 Endrin					CAS #: 72-20-8		
10.833	10.833	0.000	346274	0.00529	0.005288		
21 4,4'-DDD					CAS #: 72-54-8		
11.148	11.149	-0.001	132224	0.00543	0.005428		
22 Endosulfan II					CAS #: 33213-65-9		
11.192	11.194	-0.002	167376	0.00550	0.005497		
24 4,4'-DDT					CAS #: 50-29-3		
11.632	11.632	0.000	135574	0.00517	0.005166		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.738	11.739	-0.001	285327	0.00571	0.005714		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.162	12.162	0.000	155596	0.00568	0.005683		
27 Methoxychlor					CAS #: 72-43-5		
12.680	12.680	0.000	148659	0.00575	0.005751		
29 Endrin ketone					CAS #: 53494-70-5		
12.898	12.899	-0.001	411562	0.00613	0.006129		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\029F2901.D

Date : 11-MAR-2010 12:47

Client ID:

Instrument: a2hp9.i

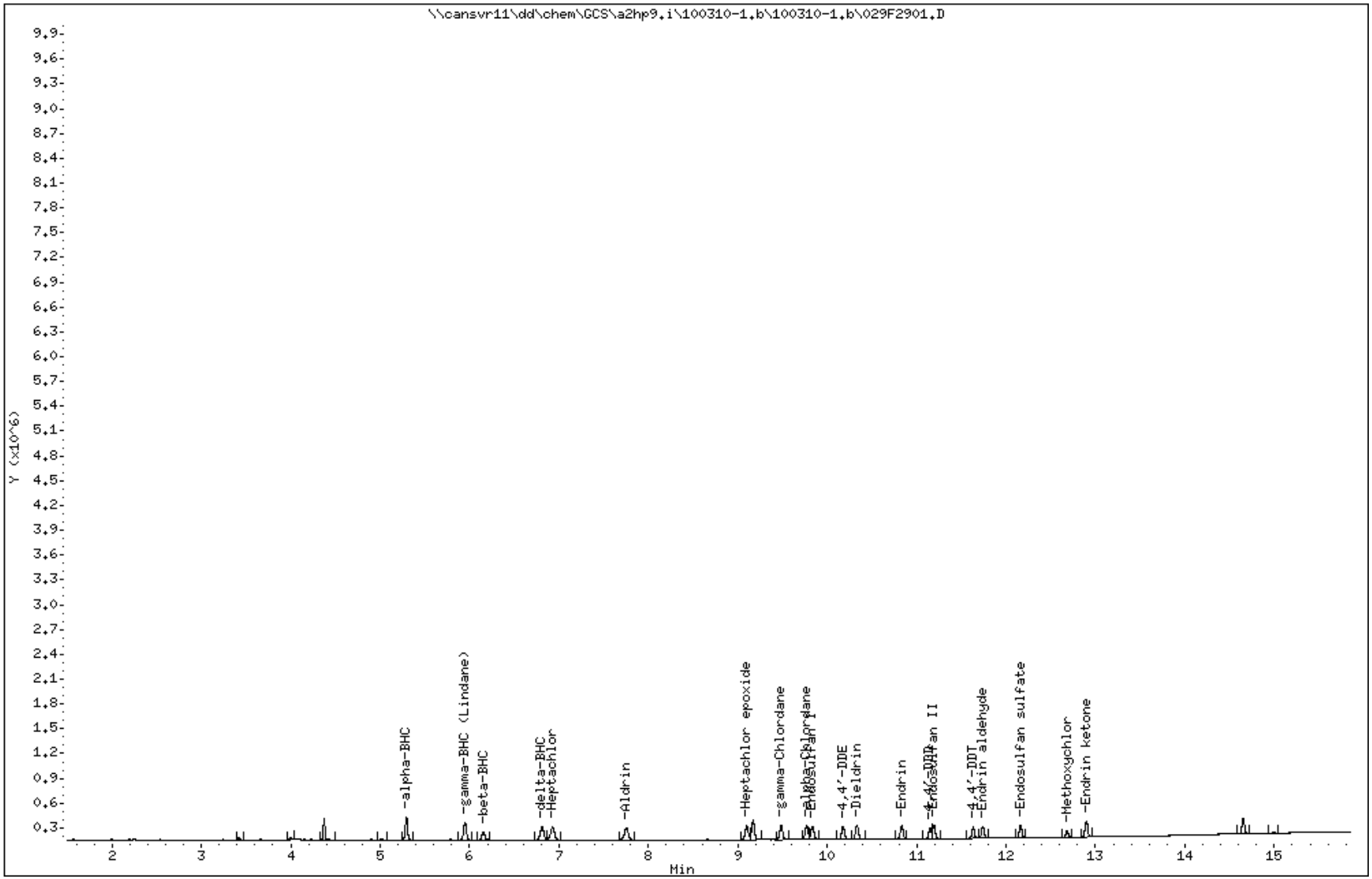
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 11-MAR-2010 13:12
Lab File ID: 030F3001.D Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:13
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
23 Toxaphene(1)	1293617	1315836	1315836	0.010	-1.71760	15.00000	Averaged
(2)	633990	631909	631909	0.010	0.32831	15.00000	Averaged
(3)	1233571	1256314	1256314	0.010	-1.84369	15.00000	Averaged
(4)	1157850	1166484	1166484	0.010	-0.74567	15.00000	Averaged
(5)	593178	598168	598168	0.010	-0.84121	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.09530
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\030F3001.D
Lab Smp Id: TOX3 G268
Inj Date : 11-MAR-2010 13:12
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Mar-2010 16:05 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.342	11.342	0.000	1315836	1.00000	1.017	80.00- 120.00	100.00
11.455	11.455	0.000	631909	1.00000	0.9967	114.04- 154.04	48.02
11.755	11.755	0.000	1256314	1.00000	1.018	115.64- 155.64	95.48
12.499	12.499	0.000	1166484	1.00000	1.007	52.78- 92.78	88.65
12.872	12.872	0.000	598168	1.00000	1.008	69.36- 109.36	45.46
		Average of Peak Amounts =			1.00934		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\030F3001.D

Date : 11-MAR-2010 13:12

Client ID:

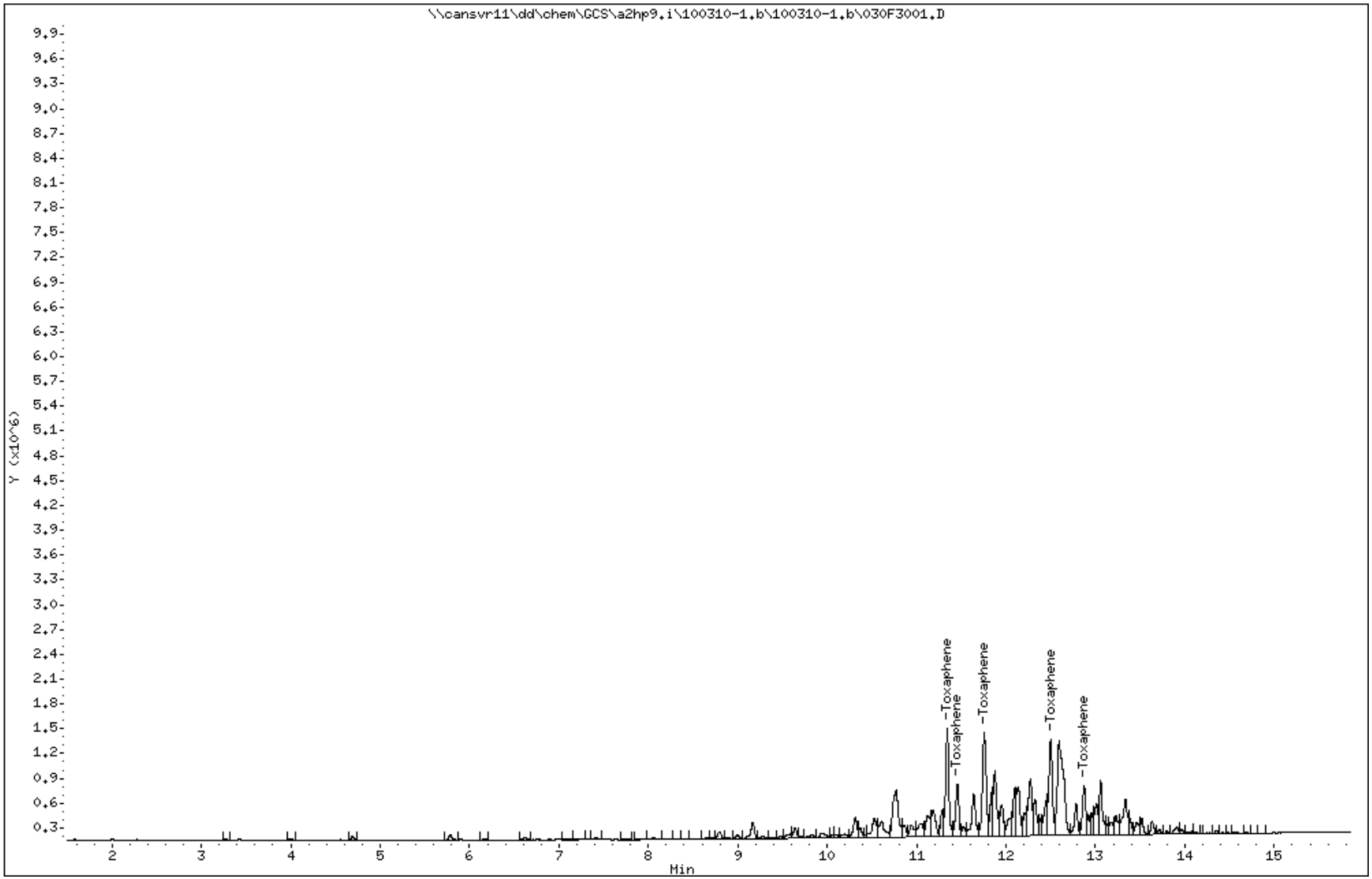
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 13:12
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/100310-1.b/030F3001.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.343	3243163	1.017	1.017

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 11-MAR-2010 18:17
Lab File ID: 042F4201.D Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:13
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
23 Toxaphene(1)	1293617	1370748	1370748	0.010	-5.96244	15.00000	Averaged
(2)	633990	637485	637485	0.010	-0.55119	15.00000	Averaged
(3)	1233571	1289839	1289839	0.010	-4.56141	15.00000	Averaged
(4)	1157850	1171976	1171976	0.010	-1.22000	15.00000	Averaged
(5)	593178	602587	602587	0.010	-1.58618	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.77624
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\042F4201.D
Lab Smp Id: TOX3 G268
Inj Date : 11-MAR-2010 18:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Meth Date : 12-Mar-2010 06:32 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 42 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.340	11.340	0.000	1370748	1.00000	1.060	80.00- 120.00	100.00
11.453	11.453	0.000	637485	1.00000	1.006	114.04- 154.04	46.51
11.753	11.753	0.000	1289839	1.00000	1.046	115.64- 155.64	94.10
12.496	12.496	0.000	1171976	1.00000	1.012	52.78- 92.78	85.50
12.872	12.872	0.000	602587	1.00000	1.016	69.36- 109.36	43.96
		Average of Peak Amounts =			1.02800		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\042F4201.D

Date : 11-MAR-2010 18:17

Client ID:

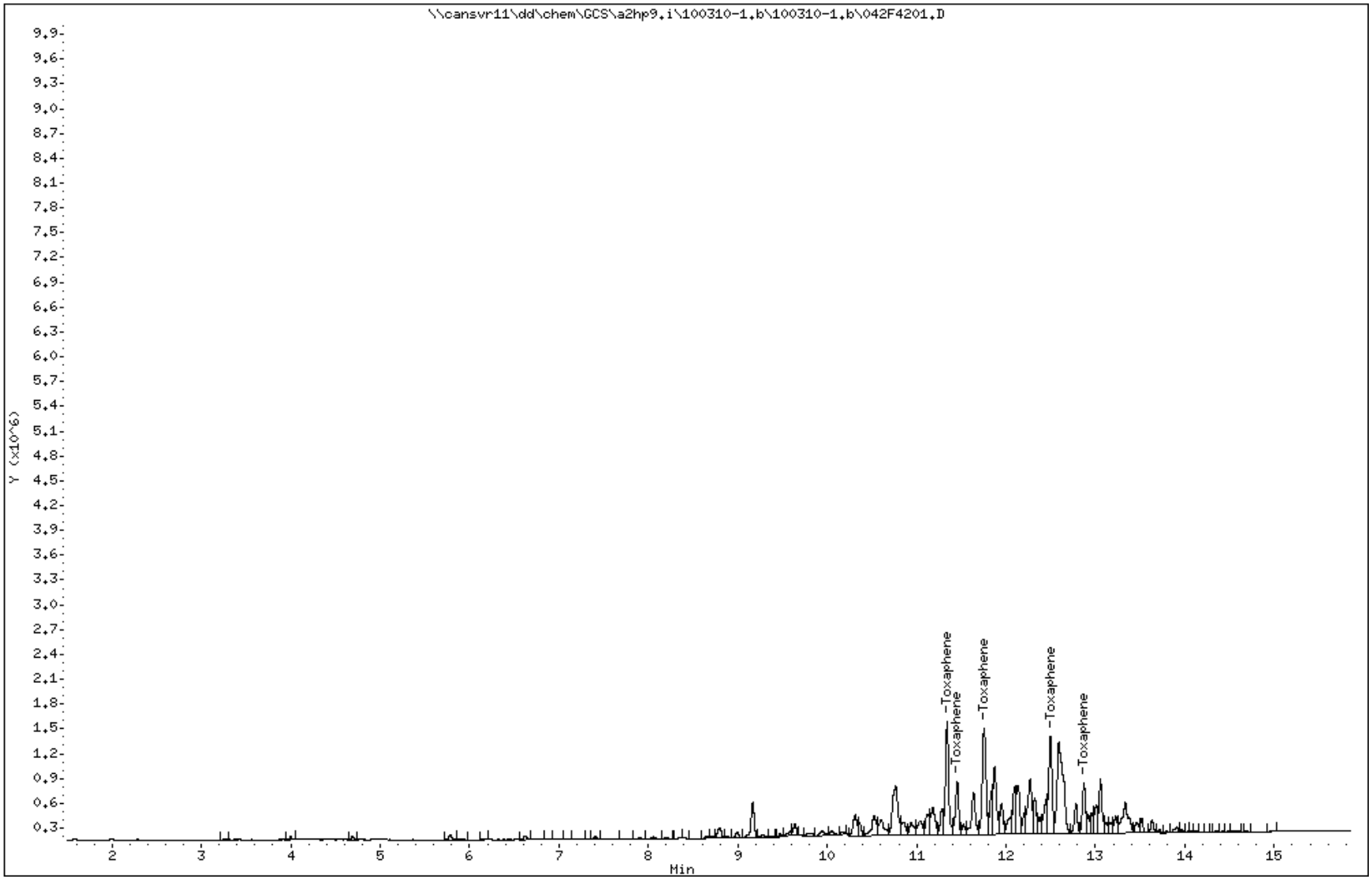
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 18:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/100310-1.b/042F4201.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.341	3367958	1.060	1.060

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 11-MAR-2010 18:41
Lab File ID: 043F4301.D Init. Cal. Date(s): 09-MAR-2010 09-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:13
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	47336546	46131000	46131000	0.000	2.54675	15.00000	Averaged	
4 alpha-BHC	104856914	102694360	102694360	0.010	2.06239	15.00000	Averaged	
5 gamma-BHC (Lindane)	94949224	93735960	93735960	0.010	1.27780	15.00000	Averaged	
6 beta-BHC	40895578	41586440	41586440	0.010	-1.68933	15.00000	Averaged	
7 delta-BHC	91704037	94437320	94437320	0.010	-2.98055	15.00000	Averaged	
8 Heptachlor	89211277	89714160	89714160	0.010	-0.56370	15.00000	Averaged	
10 Aldrin	29623735	28713080	28713080	0.010	3.07407	15.00000	Averaged	
12 Heptachlor epoxide	79177946	78650360	78650360	0.010	0.66633	15.00000	Averaged	
13 gamma-Chlordane	78585921	77036600	77036600	0.010	1.97150	15.00000	Averaged	
14 alpha-Chlordane	77232483	76158480	76158480	0.010	1.39061	15.00000	Averaged	
15 Endosulfan I	72167948	71977480	71977480	0.010	0.26392	15.00000	Averaged	
16 4,4'-DDE	30331952	31995280	31995280	0.010	-5.48375	15.00000	Averaged	
17 Dieldrin	75273213	75399520	75399520	0.010	-0.16780	15.00000	Averaged	
18 Endrin	65488818	68357680	68357680	0.010	-4.38069	15.00000	Averaged	
21 4,4'-DDD	24360733	29184120	29184120	0.010	-19.79985	15.00000	Averaged	<-
22 Endosulfan II	30446408	32422720	32422720	0.010	-6.49112	15.00000	Averaged	
24 4,4'-DDT	26244082	25629680	25629680	0.010	2.34111	15.00000	Averaged	
25 Endrin aldehyde	49938064	54495280	54495280	0.010	-9.12574	15.00000	Averaged	
26 Endosulfan sulfate	27377818	29733480	29733480	0.010	-8.60427	15.00000	Averaged	
27 Methoxychlor	25848556	27021880	27021880	0.010	-4.53923	15.00000	Averaged	
29 Endrin ketone	67145730	71322520	71322520	0.010	-6.22048	15.00000	Averaged	
$ 30 Decachlorobiphenyl	59519090	64215320	64215320	0.010	-7.89029	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 4.25142
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\043F4301.D
Lab Smp Id: AB3 G252
Inj Date : 11-MAR-2010 18:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Meth Date : 12-Mar-2010 06:32 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 43 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.371	4.371	0.000	1153275	0.02500	0.02436		
4 alpha-BHC						CAS #: 319-84-6	
5.291	5.291	0.000	2567359	0.02500	0.02448		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.947	5.947	0.000	2343399	0.02500	0.02468		
6 beta-BHC						CAS #: 319-85-7	
6.153	6.153	0.000	1039661	0.02500	0.02542		
7 delta-BHC						CAS #: 319-86-8	
6.810	6.810	0.000	2360933	0.02500	0.02574		
8 Heptachlor						CAS #: 76-44-8	
6.927	6.927	0.000	2242854	0.02500	0.02514		
10 Aldrin						CAS #: 309-00-2	
7.753	7.753	0.000	717827	0.02500	0.02423		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.099	9.099	0.000	1966259	0.02500	0.02483		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.484	9.484	0.000	1925915	0.02500	0.02451		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.770	9.770	0.000	1903962	0.02500	0.02465		

```
--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.834    9.834    0.000         1799437 0.02500  0.02493
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.176	10.176	0.000	799882	0.02500	0.02637		
17 Dieldrin					CAS #: 60-57-1		
10.332	10.332	0.000	1884988	0.02500	0.02504		
18 Endrin					CAS #: 72-20-8		
10.832	10.832	0.000	1708942	0.02500	0.02610		
21 4,4'-DDD					CAS #: 72-54-8		
11.148	11.148	0.000	729603	0.02500	0.02995		
22 Endosulfan II					CAS #: 33213-65-9		
11.192	11.192	0.000	810568	0.02500	0.02662		
24 4,4'-DDT					CAS #: 50-29-3		
11.631	11.631	0.000	640742	0.02500	0.02441		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.739	11.739	0.000	1362382	0.02500	0.02728		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.161	12.161	0.000	743337	0.02500	0.02715		
27 Methoxychlor					CAS #: 72-43-5		
12.680	12.680	0.000	675547	0.02500	0.02613		
29 Endrin ketone					CAS #: 53494-70-5		
12.899	12.899	0.000	1783063	0.02500	0.02656		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.651	14.651	0.000	1605383	0.02500	0.02697		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\043F4301.D

Date : 11-MAR-2010 18:41

Client ID:

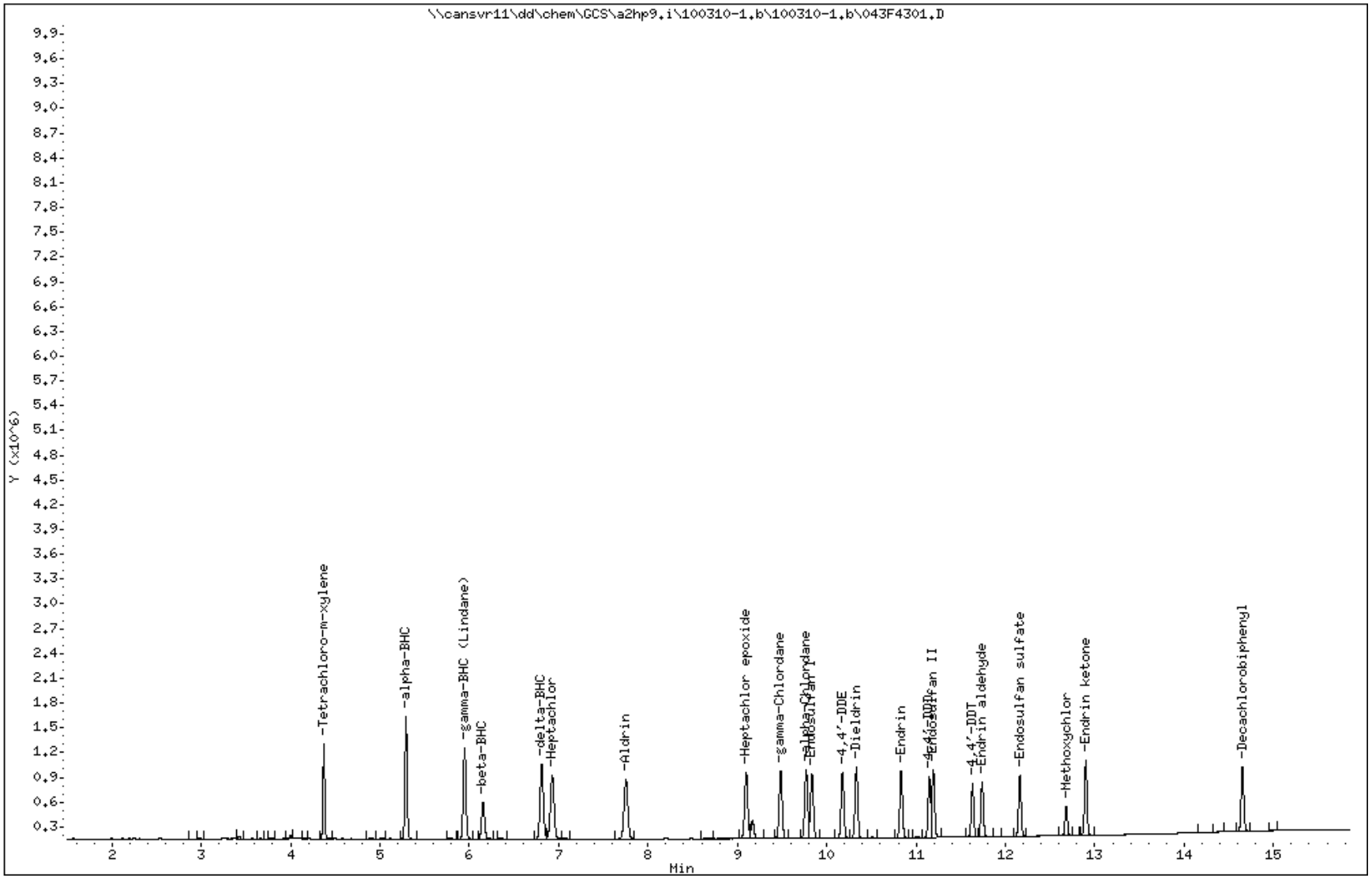
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 18:41
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/100310-1.b/043F4301.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.372	1564347	0.024	0.024
4) alpha-BHC	5.292	2567359	0.024	0.024
5) gamma-BHC (Lindane)	5.948	2343399	0.025	0.025
6) beta-BHC	6.154	1039661	0.025	0.025
7) delta-BHC	6.810	2360933	0.026	0.026
8) Heptachlor	6.928	2242854	0.025	0.025
10) Aldrin	7.754	2140145	0.024	0.024
12) Heptachlor epoxide	9.099	1966259	0.025	0.025
13) gamma-Chlordane	9.484	1925915	0.025	0.025
14) alpha-Chlordane	9.770	1903962	0.025	0.025
15) Endosulfan I	9.834	1799437	0.025	0.025
16) 4,4'-DDE	10.177	1776150	0.026	0.026
17) Dieldrin	10.333	1884988	0.025	0.025
18) Endrin	10.833	1708942	0.026	0.026
21) 4,4'-DDD	11.149	1463683	0.030	0.030
22) Endosulfan II	11.193	1671649	0.027	0.027
24) 4,4'-DDT	11.632	1263009	0.024	0.024
25) Endrin aldehyde	11.739	1362382	0.027	0.027
26) Endosulfan sulfate	12.162	1485297	0.027	0.027
27) Methoxychlor	12.680	675547	0.026	0.026
29) Endrin ketone	12.899	1783063	0.027	0.027
30) Decachlorobiphenyl	14.652	1605383	0.027	0.027

Report Date: 12-Mar-2010 06:32

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004748	94.96	70-130
5 gamma-BHC (Lindane	0.005000	0.004987	99.74	70-130
6 beta-BHC	0.005000	0.006106	122.12	70-130
7 delta-BHC	0.005000	0.005081	101.62	70-130
8 Heptachlor	0.005000	0.005392	107.84	70-130
10 Aldrin	0.005000	0.004909	98.18	70-130
12 Heptachlor epoxide	0.005000	0.005364	107.29	70-130
13 gamma-Chlordane	0.005000	0.005274	105.48	70-130
14 alpha-Chlordane	0.005000	0.005396	107.92	70-130
15 Endosulfan I	0.005000	0.005430	108.61	70-130
16 4,4'-DDE	0.005000	0.005396	107.91	70-130
17 Dieldrin	0.005000	0.005220	104.40	70-130
18 Endrin	0.005000	0.005467	109.33	70-130
21 4,4'-DDD	0.005000	0.005993	119.86	70-130
22 Endosulfan II	0.005000	0.005762	115.25	70-130
24 4,4'-DDT	0.005000	0.004892	97.84	70-130
25 Endrin aldehyde	0.005000	0.006087	121.73	70-130
26 Endosulfan sulfate	0.005000	0.006046	120.91	70-130
27 Methoxychlor	0.005000	0.005811	116.23	70-130
29 Endrin ketone	0.005000	0.006280	125.60	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\044F4401.D
Lab Smp Id: MRL
Inj Date : 11-MAR-2010 19:06
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Meth Date : 12-Mar-2010 06:32 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 44 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
4 alpha-BHC						CAS #: 319-84-6	
5.292	5.291	0.001	497847	0.00475	0.004748		
55 DDD/Endosulfan II						CAS #: 72-54-8/332-65-	

Peaks not detected for Quant. or Qual. signal(s).

5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.949	5.947	0.002	473534	0.00499	0.004987		
6 beta-BHC						CAS #: 319-85-7	
6.154	6.153	0.001	249715	0.00611	0.006106		
7 delta-BHC						CAS #: 319-86-8	
6.810	6.810	0.000	465927	0.00508	0.005081		

```
    8 Heptachlor                                    CAS #: 76-44-8
6.928    6.927    0.001          481032 0.00539  0.005392
--------------------------------------------------------------------------------
   10 Aldrin                                        CAS #: 309-00-2
7.753    7.753    0.000          145419 0.00491  0.004909
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.099	9.099	0.000	424751	0.00536	0.005364		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.484	9.484	0.000	414452	0.00527	0.005274		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.770	9.770	0.000	416757	0.00540	0.005396		
15 Endosulfan I					CAS #: 959-98-8		
9.834	9.834	0.000	391912	0.00543	0.005430		
16 4,4'-DDE					CAS #: 72-55-9		
10.176	10.176	0.000	163662	0.00540	0.005396		
17 Dieldrin					CAS #: 60-57-1		
10.333	10.332	0.001	392919	0.00522	0.005220		
18 Endrin					CAS #: 72-20-8		
10.833	10.832	0.001	358006	0.00547	0.005467		
21 4,4'-DDD					CAS #: 72-54-8		
11.149	11.148	0.001	145989	0.00599	0.005993		
22 Endosulfan II					CAS #: 33213-65-9		
11.193	11.192	0.001	175444	0.00576	0.005762		
24 4,4'-DDT					CAS #: 50-29-3		
11.632	11.631	0.001	128390	0.00489	0.004892		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.739	11.739	0.000	303955	0.00609	0.006087		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.162	12.161	0.001	165519	0.00605	0.006046		
27 Methoxychlor					CAS #: 72-43-5		
12.680	12.680	0.000	150213	0.00581	0.005811		
29 Endrin ketone					CAS #: 53494-70-5		
12.899	12.899	0.000	421666	0.00628	0.006280		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\044F4401.D

Date : 11-MAR-2010 19:06

Client ID:

Instrument: a2hp9.i

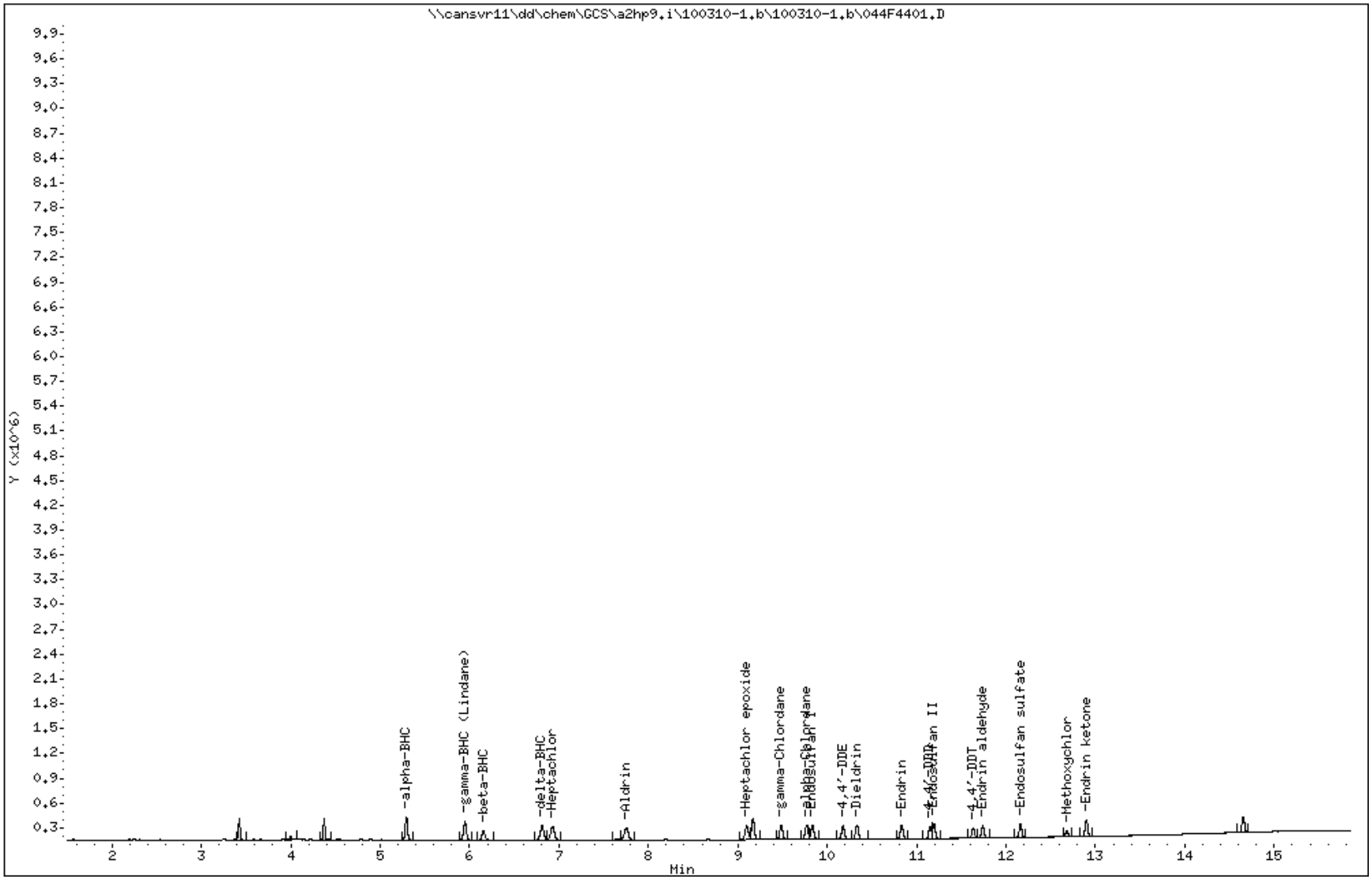
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



FORM 8
PESTICIDES ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250463

GC Column: CLP PESTICIDES I ID: 0.53 (mm) Init. Calib. Date(s): 03/09/10 03/15/10

Instrument ID: A2HP9

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.80 DCB: 13.24

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	ICAL	PEM E006	03/15/10	0842				
02	ICAL	AB1 G250	03/15/10	0930	3.80		13.23	
03	ICAL	AB2 G251	03/15/10	0954	3.80		13.23	
04	ICAL	AB3 G252	03/15/10	1017	3.80		13.24	
05	ICAL	AB4 G253	03/15/10	1041	3.80		13.23	
06	ICAL	AB5 G254	03/15/10	1105	3.80		13.23	
07	ICAL	AB6 G255	03/15/10	1129	3.80		13.24	
08		MRL	03/15/10	1216				
09	ICAL	TOX1 G268	03/15/10	1303				
10	ICAL	TOX2 G268	03/15/10	1328				
11	ICAL	TOX3 G268	03/15/10	1352				
12	ICAL	TOX4 G268	03/15/10	1416				
13	ICAL	TOX5 G268	03/15/10	1441				
14	F16SS-026M-5	LV3LJ1AD	03/15/10	1505	3.80		13.23	
15	ATASB-008-51	LV3KR1AQ	03/15/10	1530	3.80		13.24	
16	ATASB-008-51	LV3KQ1CD	03/15/10	1554	3.80		13.24	
17		TOX3 G268	03/15/10	1854				
18		PEM E006	03/15/10	1918				
19		AB3 G252	03/15/10	1942	3.79		13.23	
20		MRL	03/15/10	2005				
21	LV6APBLK	LV6AP1AA	03/15/10	2304	3.79		13.23	
22	LV6APCHK	LV6AP1AC	03/15/10	2328	3.80		13.23	
23		TOX3 G268	03/15/10	2351				
24		AB3 G252	03/16/10	0015	3.79		13.23	
25		MRL	03/16/10	0038				
26		PEM E006	03/16/10	0424				
27								
28								
29								
30								
31								
32								

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.03 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 16-Mar-2010 11:21

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Start Cal Date: 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
15-MAR-2010 13:03	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\013F1301.D
15-MAR-2010 09:30	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\004F0401.D
Cal Level: 2 , Cal Amount: 0.01000		
15-MAR-2010 13:28	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\014F1401.D
15-MAR-2010 09:54	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\005F0501.D
Cal Level: 3 , Cal Amount: 0.02500		
15-MAR-2010 13:52	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\015F1501.D
15-MAR-2010 10:17	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\006F0601.D
Cal Level: 4 , Cal Amount: 0.05000		
15-MAR-2010 14:16	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D
15-MAR-2010 10:41	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\007F0701.D
Cal Level: 5 , Cal Amount: 0.10000		
15-MAR-2010 14:41	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\017F1701.D
15-MAR-2010 11:05	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\008F0801.D
Cal Level: 6 , Cal Amount: 0.20000		
15-MAR-2010 11:29	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\009F0901.D

Report Date: 16-Mar-2010 11:22

Calibration History

Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Start Cal Date: 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
15-MAR-2010 13:03	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D
15-MAR-2010 09:30	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\004F0401.D
Cal Level: 2 , Cal Amount: 0.01000		
15-MAR-2010 13:28	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D
15-MAR-2010 09:54	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\005F0501.D
Cal Level: 3 , Cal Amount: 0.02500		
15-MAR-2010 13:52	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D
15-MAR-2010 10:17	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\006F0601.D
Cal Level: 4 , Cal Amount: 0.05000		
15-MAR-2010 14:16	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\016F1601.D
15-MAR-2010 10:41	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\007F0701.D
Cal Level: 5 , Cal Amount: 0.10000		
15-MAR-2010 14:41	16-TOXAPH	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D
15-MAR-2010 11:05	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\008F0801.D
Cal Level: 6 , Cal Amount: 0.20000		
15-MAR-2010 11:29	1-AB	\\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D

Report Date : 16-Mar-2010 07:19

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Last Edit : 16-Mar-2010 07:02 vandorenc

Calibration File Names:
Level 1: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\013F1301.D
Level 2: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\014F1401.D
Level 3: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\015F1501.D
Level 4: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D
Level 5: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\017F1701.D
Level 6: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\009F0901.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
4 alpha-BHC	118398400	127104900	133919280	147039460	134367700	137926845	AVRG		133126098		7.29800
5 gamma-BHC (Lindane)	150196800	155930800	161854120	179235220	168527980	174787325	AVRG		165088708		6.75667
6 beta-BHC	41655600	40480300	39569400	41659200	38848040	40377465	AVRG		40431668		2.76779
7 delta-BHC	145594800	153111000	163467480	180189740	172660120	179504450	AVRG		165754598		8.60261
8 Heptachlor	74876600	75541500	79146840	84833720	78810630	79180750	AVRG		78731673		4.49614
9 Tech Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
10 Aldrin	146637200	149505300	152069200	168937620	159265700	165128770	AVRG		156923965		5.71081
11 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Last Edit : 16-Mar-2010 07:02 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Heptachlor epoxide	45289600	45337500	46104640	49363460	46293370	46495510	AVRG		46480680		3.22179	
13 gamma-Chlordane	47049200	46891800	48853440	53155820	50314920	52601510	AVRG		49811115		5.40893	
14 alpha-Chlordane	49285400	49843000	50411360	54055280	50992440	53288025	AVRG		51312584		3.75965	
15 Endosulfan I	47726000	47636500	48470840	50945380	47955080	48404405	AVRG		48523034		2.54555	
16 4,4'-DDE	128875600	129675500	135455440	148286540	143919670	152729930	AVRG		139823780		7.12963	
17 Dieldrin	134539200	134652900	140715080	152793540	147174470	150715720	AVRG		143431818		5.56214	
18 Endrin	51375200	51335600	54657560	58367440	55741520	55440255	AVRG		54486263		5.00503	
19 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
20 4,4'-DDD	109861200	109051500	115080760	123342200	120385880	125164995	AVRG		117147756		5.86518	
21 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
22 Endosulfan II	52035000	51135400	51381600	54482580	52734790	53032880	AVRG		52467042		2.34864	
23 4,4'-DDT	87435800	89396600	97902600	108367520	109469700	120257425	AVRG		102138274		12.51757	
24 Toxaphene(1)	1679805	1823828	1910286	1988412	2111213	+++++	AVRG		1902709		8.58720	
(2)	1485835	1717382	1822560	1984386	2128283	+++++	AVRG		1827689		13.51246	
(3)	1363585	1555262	1594703	1743456	1859918	+++++	AVRG		1623385		11.66027	
(4)	2042260	2233094	2252294	2455153	2590592	+++++	AVRG		2314679		9.18044	
(5)	1678975	1952546	2040984	2314225	2526740	+++++	AVRG		2102694		15.60112	
25 Endrin aldehyde	45449600	43341200	44561080	45975920	44242570	45054625	AVRG		44770833		2.08585	
26 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
27 Methoxychlor	52397800	52328400	52920760	54804400	53031430	55214805	AVRG		53449599		2.33218	
28 Endosulfan sulfate	112501000	107625200	108925080	113452940	109764360	112040510	AVRG		110718182		2.06345	
29 Endrin ketone	63075000	61527500	62774240	66090280	62603970	63548655	AVRG		63269941		2.42758	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Last Edit : 16-Mar-2010 07:02 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 1 Tetrachloro-m-xylene	82867600	83143600	83964800	89949540	82032730	83082520	AVRG		84173465		3.44098
$ 30 Decachlorobiphenyl	65695800	61541300	57893600	58870280	56048680	56449440	AVRG		59416517		6.14746

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Last Edit : 16-Mar-2010 07:02 vandorenc

Average %RSD Results.
Calculated Average %RSD = 6.14945
Maximun Average %RSD = 20.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date : 16-Mar-2010 08:05

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Last Edit : 16-Mar-2010 08:00 vandorenc

Calibration File Names:
Level 1: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D
Level 2: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D
Level 3: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D
Level 4: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\016F1601.D
Level 5: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D
Level 6: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
55 DDD/Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
4 alpha-BHC	94810200	98993100	104570240	117554060	112181210	117915295	AVRG		107670684		9.03604
5 gamma-BHC (Lindane)	90304000	92222400	94982120	105624000	100747190	106207855	AVRG		98347928		6.95644
6 beta-BHC	19710600	18629400	17640280	18530560	17362740	18119535	AVRG		18332186		4.55834
7 delta-BHC	87301000	88723200	94237560	105335900	103073410	109674220	AVRG		98057548		9.46289
8 Heptachlor	92661400	91110800	92193400	100085740	94390380	99201460	AVRG		94940530		4.00637
9 Tech Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
10 Aldrin	27571400	28160800	29163160	32498200	30543090	32147850	AVRG		30014083		6.84905

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Last Edit : 16-Mar-2010 08:00 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
11 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
12 Heptachlor epoxide	80050600	78449500	78686160	84784880	80681620	83967155	AVRG		81103319		3.30511	
13 gamma-Chlordane	79317200	77370900	78073960	84471480	81362890	86302400	AVRG		81149805		4.43376	
14 alpha-Chlordane	79129000	76753500	76711640	81725880	78357570	82584565	AVRG		79210359		3.12962	
15 Endosulfan I	74092400	72423900	71915360	76950000	73832160	76870545	AVRG		74347394		2.89011	
16 4,4'-DDE	30486800	30373800	31837520	34848260	33934440	36600185	AVRG		33013501		7.64068	
17 Dieldrin	73176400	71963900	73573840	80426660	78738110	83036145	AVRG		76819176		5.90036	
18 Endrin	67261800	65791700	68035960	72995180	71583420	75814985	AVRG		70247174		5.47615	
19 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
20 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
21 4,4'-DDD	27467600	27174300	28438520	30712380	30500820	32507685	AVRG		29466884		7.14720	
22 Endosulfan II	32861400	30707400	31287000	33216460	32176000	33575355	AVRG		32303936		3.49115	
23 Toxaphene (1)	1238085	1276188	1317292	1409223	1504030	+++++	AVRG		1348963		7.97296	
(2)	557360	594014	619378	673127	737464	+++++	AVRG		636269		11.08448	
(3)	1135370	1183254	1216514	1322278	1434995	+++++	AVRG		1258482		9.55216	
(4)	1067015	1095682	1104065	1208726	1317250	+++++	AVRG		1158548		8.94964	
(5)	458380	510222	523299	620430	703800	+++++	AVRG		563226		17.40282	
24 4,4'-DDT	22002400	22577700	23961320	26491580	27044450	30543205	AVRG		25436776		12.66824	
25 Endrin aldehyde	59657400	52790000	52463560	53521480	52749600	54372220	AVRG		54259043		5.03782	
26 Endosulfan sulfate	30608800	28703100	28759640	30200100	29767360	31854480	AVRG		29982247		3.98075	
27 Methoxychlor	26459800	25495600	25676600	26836880	26112400	27954550	AVRG		26422638		3.39857	
28 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Last Edit : 16-Mar-2010 08:00 vandorenc

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
29 Endrin ketone	69003600	67753500	67601840	71019760	69378710	72934505	AVRG		69615319		2.93968
$ 1 Tetrachloro-m-xylene	48469000	48743700	47804120	51499720	47853020	49032995	AVRG		48900426		2.78650
$ 30 Decachlorobiphenyl	71000600	67393500	63048600	63437400	59749080	60074400	AVRG		64117263		6.80348

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2010 09:45
End Cal Date : 15-MAR-2010 14:41
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Last Edit : 16-Mar-2010 08:00 vandorenc

Average %RSD Results.
Calculated Average %RSD = 6.55038
Maximun Average %RSD = 20.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b/002F0201.D
Report Date: 03/15/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 08:42
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\P

4,4'-DDT Degradation

RT	Area	Compound
10.209	10237521	4,4'-DDT
8.5418	59917	4,4'-DDE
9.7185	847157	4,4'-DDD

Percent Degradation of 4,4'-DDT: 8.14

Endrin Degradation

RT	Area	Compound
9.4060	6177155	Endrin
10.582	233294	Endrin aldehyde
11.678	424488	Endrin ketone

Percent Degradation of Endrin: 9.62

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 15-MAR-2010 08:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 09-Mar-2010 15:01 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.495	4.499	-0.004	1258151	0.00982	0.009816		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.919	4.923	-0.004	1549604	0.00976	0.009763		
6 beta-BHC						CAS #: 319-85-7	
5.065	5.070	-0.005	384161	0.00988	0.009876		
16 4,4'-DDE						CAS #: 72-55-9	
8.541	8.548	-0.007	59917	5e-004	0.0004688		
18 Endrin						CAS #: 72-20-8	
9.405	9.414	-0.009	2520868	0.05061	0.05061		
20 4,4'-DDD						CAS #: 72-54-8	
9.718	9.727	-0.009	847157	0.00884	0.008836		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.209	10.217	-0.008	10237521	0.09783	0.09783		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.581	10.590	-0.009	96175	0.00232	0.002321		

```
   27 Methoxychlor                                CAS #: 72-43-5
11.106  11.114   -0.008        12326154 0.24344   0.2434
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.275  11.291   -0.016           45398  5e-004  0.0004536
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.677	11.684	-0.007	201504	0.00340	0.003398		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\002F0201.D

Date : 15-MAR-2010 08:42

Client ID:

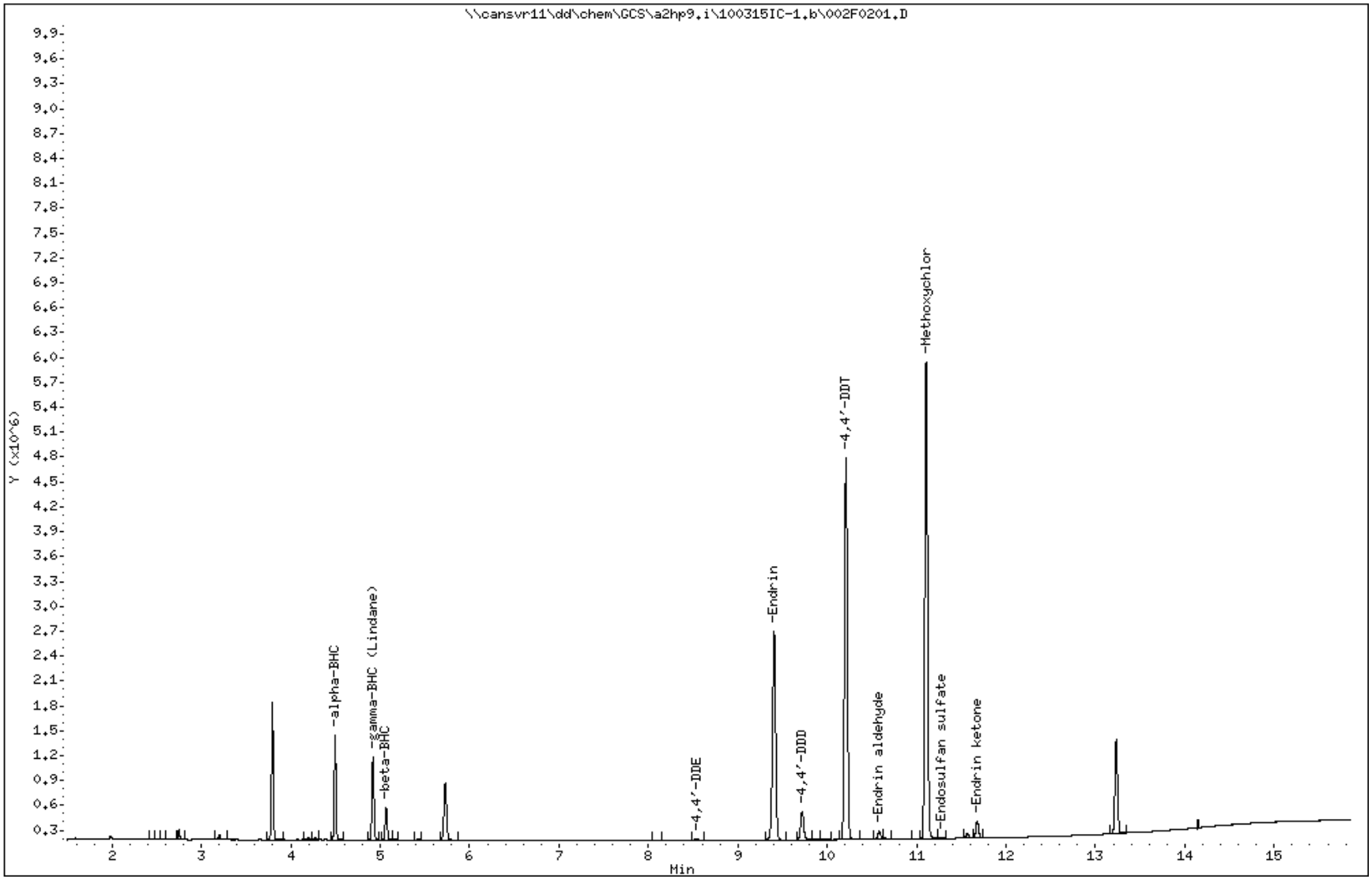
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 08:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.496	1710561	0.010	0.010
5) gamma-BHC (Lindane)	4.919	1549604	0.010	0.010
6) beta-BHC	5.066	659400	0.010	0.010
16) 4,4'-DDE	8.542	59917	0.000	0.000
18) Endrin	9.406	6177155	0.051	0.051
20) 4,4'-DDD	9.718	847157	0.009	0.009
22) Endosulfan II	NOT DETECTED Expected RT = 9.837			
23) 4,4'-DDT	10.209	10237521	0.098	0.098
25) Endrin aldehyde	10.582	233294	0.002	0.002
27) Methoxychlor	11.107	12326154	0.243	0.243
28) Endosulfan sulfate	11.275	45398	0.000	0.000
29) Endrin ketone	11.678	424488	0.003	0.003

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b/002F0201.D
Report Date: 03/15/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 08:42
Lab File ID: 002F0201.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\

4,4'-DDT Degradation

RT	Area	Compound
11.625	5085545	4,4'-DDT
10.171	42213	4,4'-DDE
11.143	446319	4,4'-DDD

Percent Degradation of 4,4'-DDT: 8.76

Endrin Degradation

RT	Area	Compound
10.826	3215028	Endrin
11.732	125398	Endrin aldehyde
12.892	241898	Endrin ketone

Percent Degradation of Endrin: 10.25

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\002F0201.D
Lab Smp Id: PEM E006
Inj Date : 15-MAR-2010 08:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 09-Mar-2010 15:12 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 2 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.287	5.294	-0.007	981217	0.00936	0.009358		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.941	5.951	-0.010	911756	0.00960	0.009602		
6 beta-BHC						CAS #: 319-85-7	
6.146	6.156	-0.010	422499	0.01033	0.01033		
16 4,4'-DDE						CAS #: 72-55-9	
10.170	10.180	-0.010	16459	5e-004	0.0005426		
18 Endrin						CAS #: 72-20-8	
10.825	10.836	-0.011	3215028	0.04909	0.04909		
21 4,4'-DDD						CAS #: 72-54-8	
11.143	11.152	-0.009	205261	0.00843	0.008426		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT						CAS #: 50-29-3	
11.625	11.634	-0.009	2595180	0.09889	0.09889		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.731	11.742	-0.011	125398	0.00251	0.002511		

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   27 Methoxychlor                                CAS #: 72-43-5
12.674  12.684   -0.010         6319441 0.24448   0.2445
--------------------------------------------------------------------------------
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
26 Endosulfan sulfate						CAS #: 1031-07-8	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone						CAS #: 53494-70-5	
12.891	12.903	-0.012	241898	0.00360	0.003602		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\002F0201.D

Date : 15-MAR-2010 08:42

Client ID:

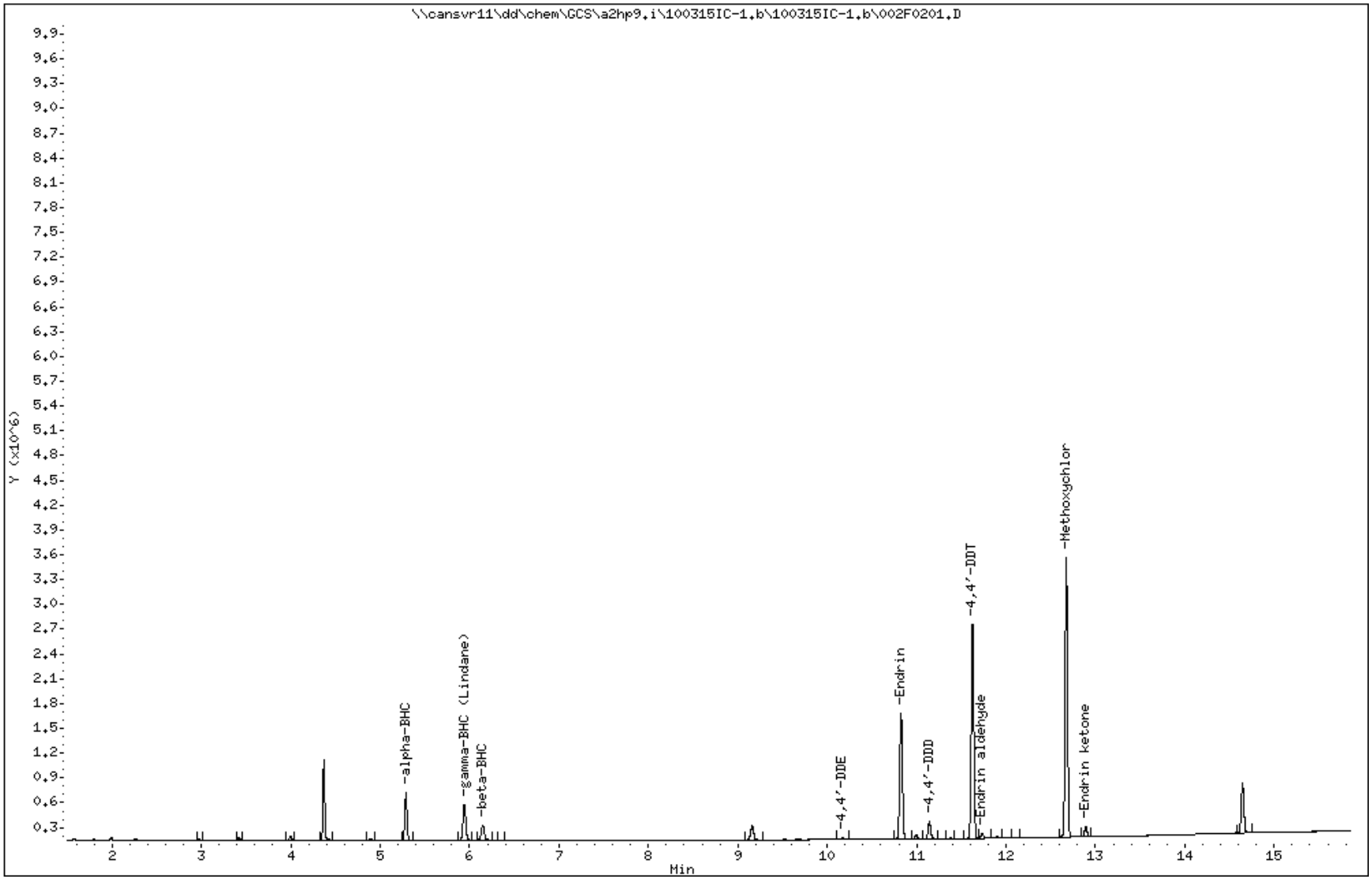
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 08:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/002F0201.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.288	981217	0.009	0.009
5) gamma-BHC (Lindane)	5.942	911756	0.010	0.010
6) beta-BHC	6.147	422499	0.010	0.010
16) 4,4'-DDE	10.171	42213	0.001	0.001
18) Endrin	10.826	3215028	0.049	0.049
21) 4,4'-DDD	11.143	446319	0.008	0.008
22) Endosulfan II	NOT DETECTED	Expected RT = 11.197		
24) 4,4'-DDT	11.625	5085545	0.099	0.099
25) Endrin aldehyde	11.732	125398	0.003	0.003
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.166		
27) Methoxychlor	12.674	6319441	0.244	0.244
29) Endrin ketone	12.892	241898	0.004	0.004

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\004F0401.D
Lab Smp Id: AB1 G250
Inj Date : 15-MAR-2010 09:30
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB1 G250,,1,1
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 09:43 Quant Type: ESTD
Cal Date : 09-MAR-2010 12:34 Cal File: 010F1001.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.795	3.795	0.000	414338	0.00500	0.004987		
4 alpha-BHC					CAS #: 319-84-6		
4.497	4.497	0.000	591992	0.00500	0.004515		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.920	4.920	0.000	750984	0.00500	0.004624		
6 beta-BHC					CAS #: 319-85-7		
5.068	5.068	0.000	208278	0.00500	0.005239		
7 delta-BHC					CAS #: 319-86-8		
5.315	5.315	0.000	727974	0.00500	0.004528		
Sum of Peak Amounts =					0.00453		
8 Heptachlor					CAS #: 76-44-8		
5.639	5.639	0.000	374383	0.00500	0.004968		
10 Aldrin					CAS #: 309-00-2		
6.167	6.167	0.000	733186	0.00500	0.004737		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.603	7.603	0.000	226448	0.00500	0.004945		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.903	7.903	0.000	235246	0.00500	0.004828		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.217	8.217	0.000	246427	0.00500	0.004916		

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--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
8.473    8.473    0.000          238630 0.00500  0.005015
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.541	0.000	644378	0.00500	0.004878		
17 Dieldrin					CAS #: 60-57-1		
8.983	8.983	0.000	672696	0.00500	0.004817		
18 Endrin					CAS #: 72-20-8		
9.408	9.408	0.000	256876	0.00500	0.004974		
20 4,4'-DDD					CAS #: 72-54-8		
9.722	9.722	0.000	549306	0.00500	0.005384		
22 Endosulfan II					CAS #: 33213-65-9		
9.831	9.831	0.000	260175	0.00500	0.005122		
23 4,4'-DDT					CAS #: 50-29-3		
10.213	10.213	0.000	437179	0.00500	0.004139		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.585	10.585	0.000	227248	0.00500	0.005296		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	261989	0.00500	0.005059		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	562505	0.00500	0.005390		
29 Endrin ketone					CAS #: 53494-70-5		
11.679	11.679	0.000	315375	0.00500	0.005152		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.233	13.233	0.000	328479	0.00500	0.005829		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\004F0401.D

Date : 15-MAR-2010 09:30

Client ID:

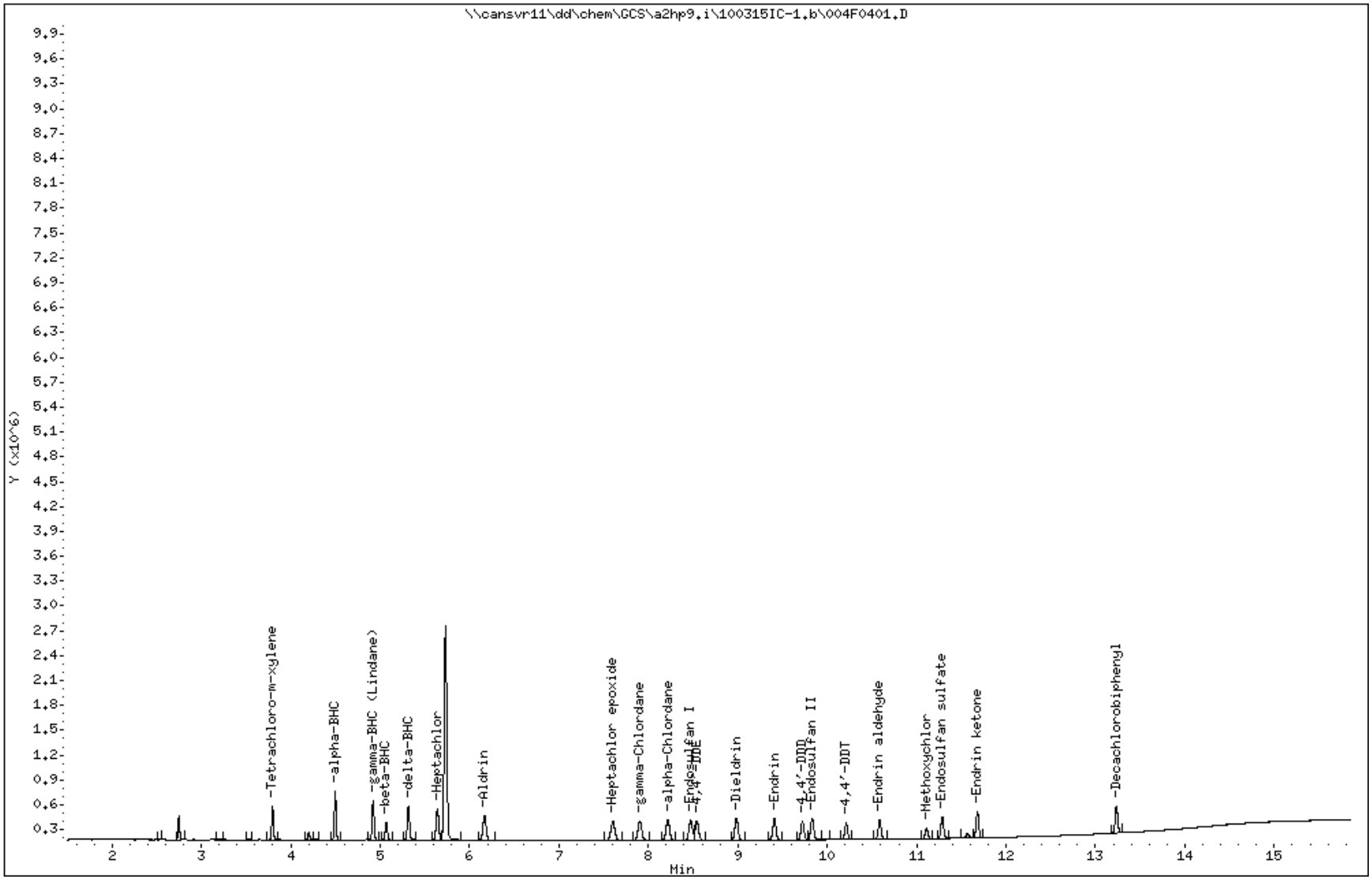
Instrument: a2hp9.i

Sample Info: AB1 G250,,1,1

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 09:30
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/004F0401.D
Lab Sample ID: AB1 G250
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.796	552160	0.005	0.005
4) alpha-BHC	4.497	804113	0.005	0.005
5) gamma-BHC (Lindane)	4.921	750984	0.005	0.005
6) beta-BHC	5.068	358268	0.005	0.005
7) delta-BHC	5.316	727974	0.005	0.005
8) Heptachlor	5.640	769711	0.005	0.005
10) Aldrin	6.167	733186	0.005	0.005
12) Heptachlor epoxide	7.603	707365	0.005	0.005
13) gamma-Chlordane	7.904	706575	0.005	0.005
14) alpha-Chlordane	8.217	707021	0.005	0.005
15) Endosulfan I	8.473	659115	0.005	0.005
16) 4,4'-DDE	8.541	644378	0.005	0.005
17) Dieldrin	8.984	672696	0.005	0.005
18) Endrin	9.409	633222	0.005	0.005
20) 4,4'-DDD	9.722	549306	0.005	0.005
22) Endosulfan II	9.831	636269	0.005	0.005
23) 4,4'-DDT	10.213	437179	0.004	0.004
25) Endrin aldehyde	10.586	521346	0.005	0.005
27) Methoxychlor	11.110	261989	0.005	0.005
28) Endosulfan sulfate	11.286	562505	0.005	0.005
29) Endrin ketone	11.680	649033	0.005	0.005
30) Decachlorobiphenyl	13.234	669653	0.006	0.006

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\005F0501.D
Lab Smp Id: AB2 G251
Inj Date : 15-MAR-2010 09:54
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB2 G251,,1,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 10:07 Quant Type: ESTD
Cal Date : 09-MAR-2010 12:58 Cal File: 011F1101.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.795	3.795	0.000	831436	0.01000	0.009939		
4 alpha-BHC					CAS #: 319-84-6		
4.496	4.496	0.000	1271049	0.01000	0.009614		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.919	4.919	0.000	1559308	0.01000	0.009536		
6 beta-BHC					CAS #: 319-85-7		
5.067	5.067	0.000	404803	0.01000	0.01011		
7 delta-BHC					CAS #: 319-86-8		
5.314	5.314	0.000	1531110	0.01000	0.009427		
		Sum of Peak Amounts =			0.00943		
8 Heptachlor					CAS #: 76-44-8		
5.639	5.639	0.000	755415	0.01000	0.009908		
10 Aldrin					CAS #: 309-00-2		
6.166	6.166	0.000	1495053	0.01000	0.009589		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.602	7.602	0.000	453375	0.01000	0.009829		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.903	7.903	0.000	468918	0.01000	0.009556		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.217	8.217	0.000	498430	0.01000	0.009834		

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   15 Endosulfan I                                CAS #: 959-98-8
8.472    8.472    0.000          476365 0.01000  0.009917
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.542	8.542	0.000	1296755	0.01000	0.009686		
17 Dieldrin					CAS #: 60-57-1		
8.983	8.983	0.000	1346529	0.01000	0.009555		
18 Endrin					CAS #: 72-20-8		
9.409	9.409	0.000	513356	0.01000	0.009819		
20 4,4'-DDD					CAS #: 72-54-8		
9.722	9.722	0.000	1090515	0.01000	0.01034		
22 Endosulfan II					CAS #: 33213-65-9		
9.831	9.831	0.000	511354	0.01000	0.009934		
23 4,4'-DDT					CAS #: 50-29-3		
10.213	10.213	0.000	893966	0.01000	0.008573		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.586	10.586	0.000	433412	0.01000	0.009979		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	523284	0.01000	0.01005		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	1076252	0.01000	0.01014		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.680	0.000	615275	0.01000	0.009956		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.234	13.234	0.000	615413	0.01000	0.01072		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\005F0501.D

Date : 15-MAR-2010 09:54

Client ID:

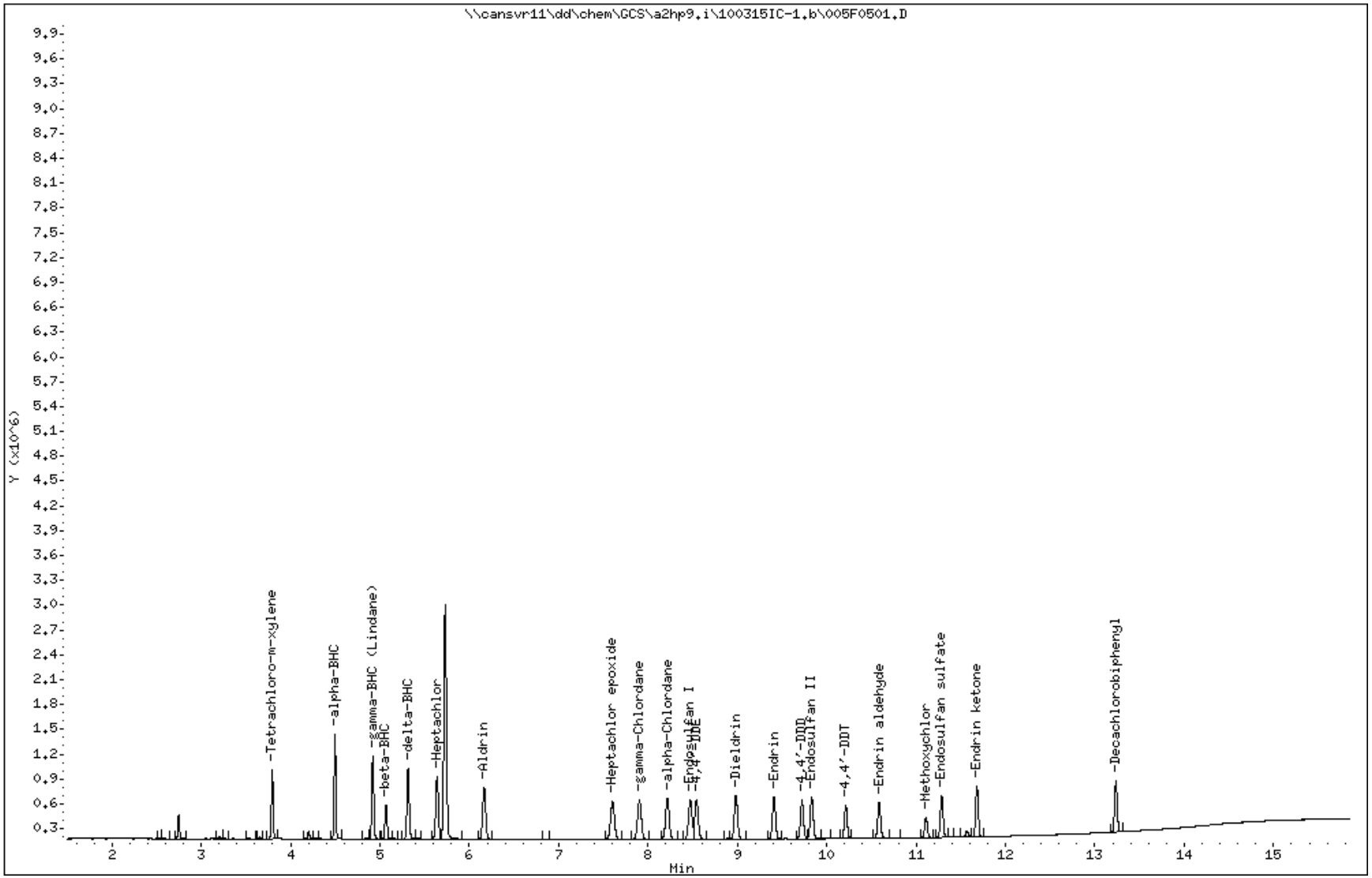
Instrument: a2hp9.i

Sample Info: AB2 G251,,1,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 09:54
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/005F0501.D
Lab Sample ID: AB2 G251
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.796	1105834	0.010	0.010
4) alpha-BHC	4.496	1713697	0.010	0.010
5) gamma-BHC (Lindane)	4.920	1559308	0.010	0.010
6) beta-BHC	5.067	697880	0.010	0.010
7) delta-BHC	5.315	1531110	0.009	0.009
8) Heptachlor	5.640	1566159	0.010	0.010
10) Aldrin	6.166	1495053	0.010	0.010
12) Heptachlor epoxide	7.602	1400875	0.010	0.010
13) gamma-Chlordane	7.903	1397188	0.010	0.010
14) alpha-Chlordane	8.217	1406185	0.010	0.010
15) Endosulfan I	8.472	1301652	0.010	0.010
16) 4,4'-DDE	8.542	1296755	0.010	0.010
17) Dieldrin	8.983	1346529	0.010	0.010
18) Endrin	9.410	1256990	0.010	0.010
20) 4,4'-DDD	9.722	1090515	0.010	0.010
22) Endosulfan II	9.831	1234852	0.010	0.010
23) 4,4'-DDT	10.213	893966	0.009	0.009
25) Endrin aldehyde	10.586	1000111	0.010	0.010
27) Methoxychlor	11.110	523284	0.010	0.010
28) Endosulfan sulfate	11.286	1076252	0.010	0.010
29) Endrin ketone	11.681	1275285	0.010	0.010
30) Decachlorobiphenyl	13.235	1266316	0.011	0.011

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\006F0601.D
Lab Smp Id: AB3 G252
Inj Date : 15-MAR-2010 10:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,1,3
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 10:30 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:23 Cal File: 012F1201.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.795	3.795	0.000	2099120	0.02500	0.02508		
4 alpha-BHC						CAS #: 319-84-6	
4.496	4.496	0.000	3347982	0.02500	0.02534		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.919	4.919	0.000	4046353	0.02500	0.02472		
6 beta-BHC						CAS #: 319-85-7	
5.066	5.066	0.000	989235	0.02500	0.02467		
7 delta-BHC						CAS #: 319-86-8	
5.314	5.314	0.000	4086687	0.02500	0.02507		
		Sum of Peak Amounts =			0.02507		
8 Heptachlor						CAS #: 76-44-8	
5.638	5.638	0.000	1978671	0.02500	0.02578		
10 Aldrin						CAS #: 309-00-2	
6.165	6.165	0.000	3801730	0.02500	0.02436		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.600	7.600	0.000	1152616	0.02500	0.02497		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.902	7.902	0.000	1221336	0.02500	0.02482		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.215	8.215	0.000	1260284	0.02500	0.02479		

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   15 Endosulfan I                                CAS #: 959-98-8
8.471    8.471    0.000         1211771 0.02500  0.02518
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.541	0.000	3386386	0.02500	0.02507		
17 Dieldrin					CAS #: 60-57-1		
8.984	8.984	0.000	3517877	0.02500	0.02488		
18 Endrin					CAS #: 72-20-8		
9.409	9.409	0.000	1366439	0.02500	0.02590		
20 4,4'-DDD					CAS #: 72-54-8		
9.721	9.721	0.000	2877019	0.02500	0.02655		
22 Endosulfan II					CAS #: 33213-65-9		
9.831	9.831	0.000	1284540	0.02500	0.02492		
23 4,4'-DDT					CAS #: 50-29-3		
10.211	10.211	0.000	2447565	0.02500	0.02383		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.585	10.585	0.000	1114027	0.02500	0.02543		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	1323019	0.02500	0.02549		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	2723127	0.02500	0.02543		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.680	0.000	1569356	0.02500	0.02537		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.235	13.235	0.000	1447340	0.02500	0.02508		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\006F0601.D

Date : 15-MAR-2010 10:17

Client ID:

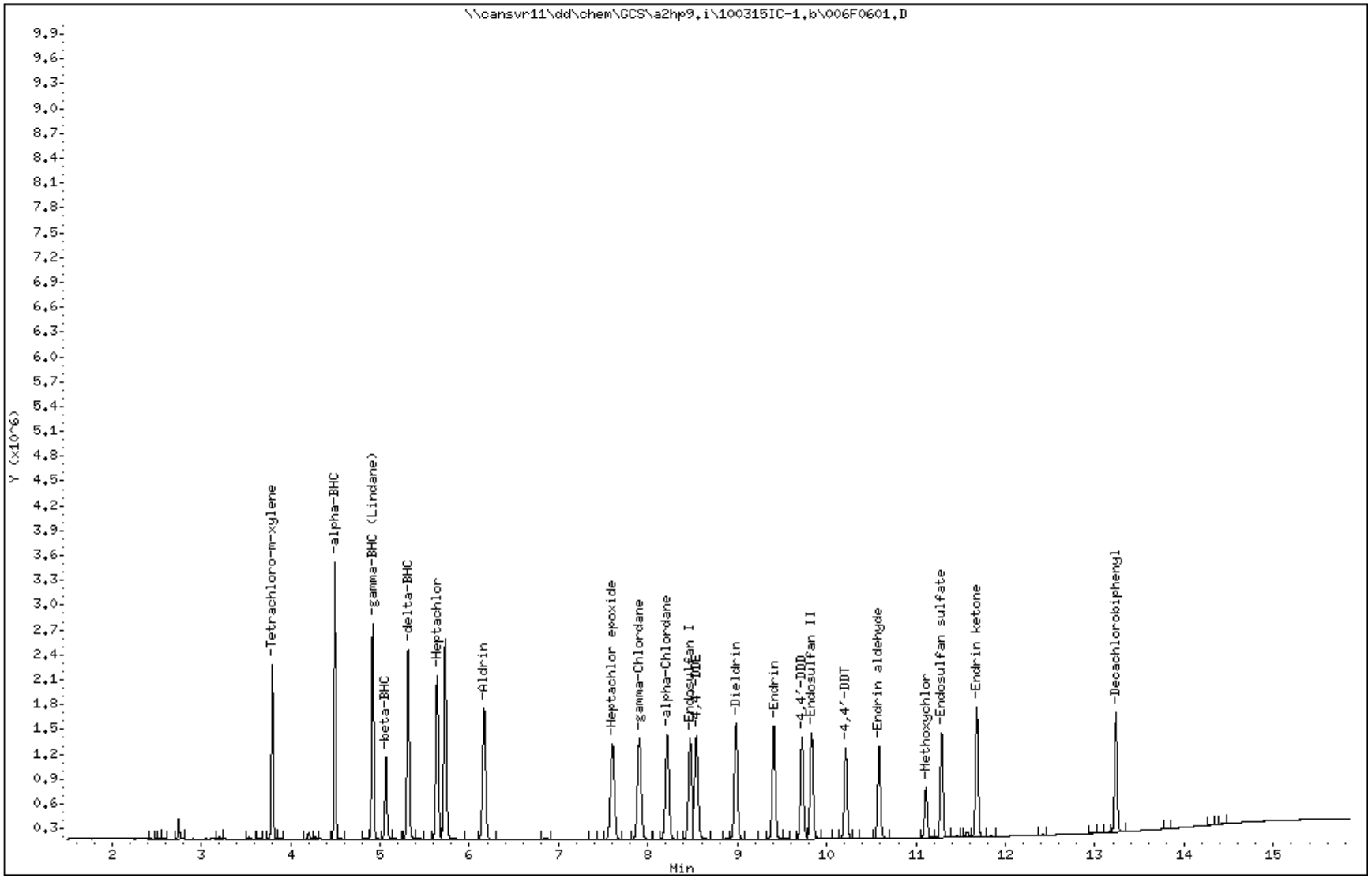
Instrument: a2hp9.i

Sample Info: AB3 G252,,1,3

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 10:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/006F0601.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.795	2759978	0.025	0.025
4) alpha-BHC	4.496	4570570	0.025	0.025
5) gamma-BHC (Lindane)	4.919	4046353	0.025	0.025
6) beta-BHC	5.067	1683449	0.025	0.025
7) delta-BHC	5.314	4086687	0.025	0.025
8) Heptachlor	5.639	4046100	0.026	0.026
10) Aldrin	6.165	3801730	0.024	0.024
12) Heptachlor epoxide	7.600	3509729	0.025	0.025
13) gamma-Chlordane	7.903	3573380	0.025	0.025
14) alpha-Chlordane	8.215	3545643	0.025	0.025
15) Endosulfan I	8.471	3310843	0.025	0.025
16) 4,4'-DDE	8.542	3386386	0.025	0.025
17) Dieldrin	8.984	3517877	0.025	0.025
18) Endrin	9.409	3298935	0.026	0.026
20) 4,4'-DDD	9.722	2877019	0.027	0.027
22) Endosulfan II	9.831	3125559	0.025	0.025
23) 4,4'-DDT	10.212	2447565	0.024	0.024
25) Endrin aldehyde	10.585	2490808	0.025	0.025
27) Methoxychlor	11.109	1323019	0.025	0.025
28) Endosulfan sulfate	11.285	2723127	0.025	0.025
29) Endrin ketone	11.680	3245208	0.025	0.025
30) Decachlorobiphenyl	13.235	2951812	0.025	0.025

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\007F0701.D
Lab Smp Id: AB4 G253
Inj Date : 15-MAR-2010 10:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB4 G253,,1,4
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 10:54 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.795	3.795	0.000	4497477	0.05000	0.05290		
4 alpha-BHC					CAS #: 319-84-6		
4.496	4.496	0.000	7351973	0.05000	0.05481		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.919	4.919	0.000	8961761	0.05000	0.05400		
6 beta-BHC					CAS #: 319-85-7		
5.066	5.066	0.000	2082960	0.05000	0.05129		
7 delta-BHC					CAS #: 319-86-8		
5.314	5.314	0.000	9009487	0.05000	0.05446		
		Sum of Peak Amounts =			0.05446		
8 Heptachlor					CAS #: 76-44-8		
5.639	5.639	0.000	4241686	0.05000	0.05420		
10 Aldrin					CAS #: 309-00-2		
6.166	6.166	0.000	8446881	0.05000	0.05338		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.601	7.601	0.000	2468173	0.05000	0.05280		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.903	7.903	0.000	2657791	0.05000	0.05327		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.216	8.216	0.000	2702764	0.05000	0.05252		

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   15 Endosulfan I                                CAS #: 959-98-8
8.471    8.471    0.000         2547269 0.05000  0.05240
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.541	0.000	7414327	0.05000	0.05391		
17 Dieldrin					CAS #: 60-57-1		
8.984	8.984	0.000	7639677	0.05000	0.05344		
18 Endrin					CAS #: 72-20-8		
9.409	9.409	0.000	2918372	0.05000	0.05441		
20 4,4'-DDD					CAS #: 72-54-8		
9.722	9.722	0.000	6167110	0.05000	0.05515		
22 Endosulfan II					CAS #: 33213-65-9		
9.830	9.830	0.000	2724129	0.05000	0.05250		
23 4,4'-DDT					CAS #: 50-29-3		
10.211	10.211	0.000	5418376	0.05000	0.05298		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.585	10.585	0.000	2298796	0.05000	0.05206		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	2740220	0.05000	0.05245		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.286	11.286	0.000	5672647	0.05000	0.05230		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.680	0.000	3304514	0.05000	0.05299		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.234	13.234	0.000	2943514	0.05000	0.05060		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\007F0701.D

Page 1

Date : 15-MAR-2010 10:41

Client ID:

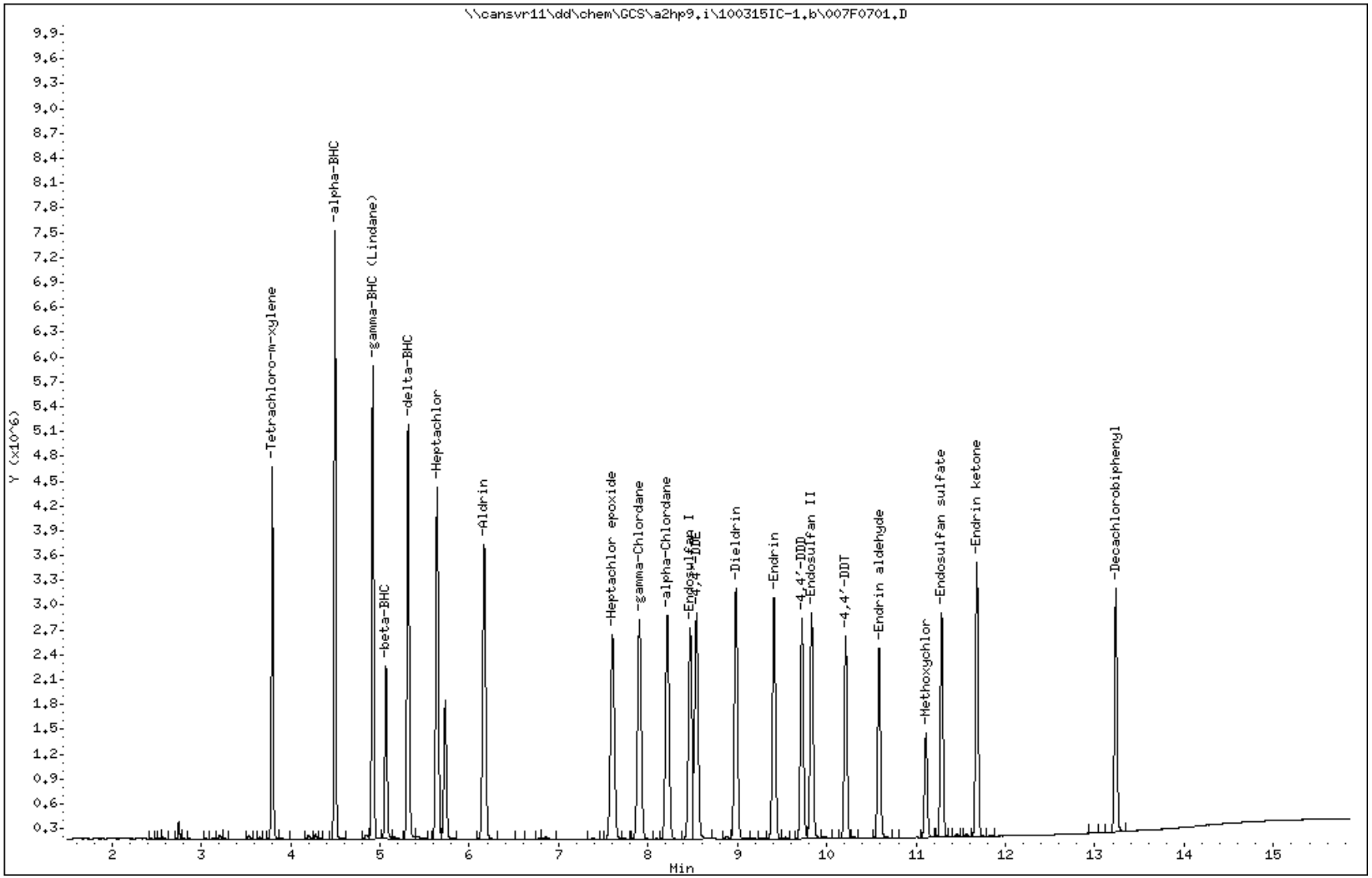
Instrument: a2hp9.i

Sample Info: AB4 G253,,1,4

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 10:41
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/007F0701.D
Lab Sample ID: AB4 G253
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.796	5907968	0.053	0.053
4) alpha-BHC	4.497	10052134	0.055	0.055
5) gamma-BHC (Lindane)	4.920	8961761	0.054	0.054
6) beta-BHC	5.067	3512525	0.051	0.051
7) delta-BHC	5.315	9009487	0.054	0.054
8) Heptachlor	5.640	8709705	0.054	0.054
10) Aldrin	6.167	8446881	0.053	0.053
12) Heptachlor epoxide	7.602	7518213	0.053	0.053
13) gamma-Chlordane	7.903	7728913	0.053	0.053
14) alpha-Chlordane	8.217	7598332	0.053	0.053
15) Endosulfan I	8.472	6987882	0.052	0.052
16) 4,4'-DDE	8.542	7414327	0.054	0.054
17) Dieldrin	8.984	7639677	0.053	0.053
18) Endrin	9.410	7043190	0.054	0.054
20) 4,4'-DDD	9.722	6167110	0.055	0.055
22) Endosulfan II	9.831	6568963	0.053	0.053
23) 4,4'-DDT	10.212	5418376	0.053	0.053
25) Endrin aldehyde	10.586	5167394	0.052	0.052
27) Methoxychlor	11.110	2740220	0.052	0.052
28) Endosulfan sulfate	11.287	5672647	0.052	0.052
29) Endrin ketone	11.681	6839952	0.053	0.053
30) Decachlorobiphenyl	13.235	5914250	0.051	0.051

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\008F0801.D
Lab Smp Id: AB5 G254
Inj Date : 15-MAR-2010 11:05
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB5 G254,,1,5
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 11:18 Quant Type: ESTD
Cal Date : 09-MAR-2010 14:13 Cal File: 014F1401.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.795	3.795	0.000	8203273	0.10000	0.09709		
4 alpha-BHC						CAS #: 319-84-6	
4.496	4.496	0.000	13436770	0.10000	0.1007		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.919	4.919	0.000	16852798	0.10000	0.1019		
6 beta-BHC						CAS #: 319-85-7	
5.066	5.066	0.000	3884804	0.10000	0.09610		
7 delta-BHC						CAS #: 319-86-8	
5.315	5.315	0.000	17266012	0.10000	0.1043		
		Sum of Peak Amounts =			0.10430		
8 Heptachlor						CAS #: 76-44-8	
5.639	5.639	0.000	7881063	0.10000	0.1004		
10 Aldrin						CAS #: 309-00-2	
6.165	6.165	0.000	15926570	0.10000	0.1012		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.601	7.601	0.000	4629337	0.10000	0.09930		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.902	7.902	0.000	5031492	0.10000	0.1011		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.216	8.216	0.000	5099244	0.10000	0.09928		

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   15 Endosulfan I                                CAS #: 959-98-8
8.470    8.470    0.000         4795508 0.10000  0.09877
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.541	0.000	14391967	0.10000	0.1038		
17 Dieldrin					CAS #: 60-57-1		
8.983	8.983	0.000	14717447	0.10000	0.1026		
18 Endrin					CAS #: 72-20-8		
9.408	9.408	0.000	5574152	0.10000	0.1029		
20 4,4'-DDD					CAS #: 72-54-8		
9.721	9.721	0.000	12038588	0.10000	0.1048		
22 Endosulfan II					CAS #: 33213-65-9		
9.830	9.830	0.000	5273479	0.10000	0.1009		
23 4,4'-DDT					CAS #: 50-29-3		
10.211	10.211	0.000	10946970	0.10000	0.1071		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.585	10.585	0.000	4424257	0.10000	0.09932		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	5303143	0.10000	0.1003		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	10976436	0.10000	0.09995		
29 Endrin ketone					CAS #: 53494-70-5		
11.679	11.679	0.000	6260397	0.10000	0.09953		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.234	13.234	0.000	5604868	0.10000	0.09510		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\008F0801.D

Date : 15-MAR-2010 11:05

Client ID:

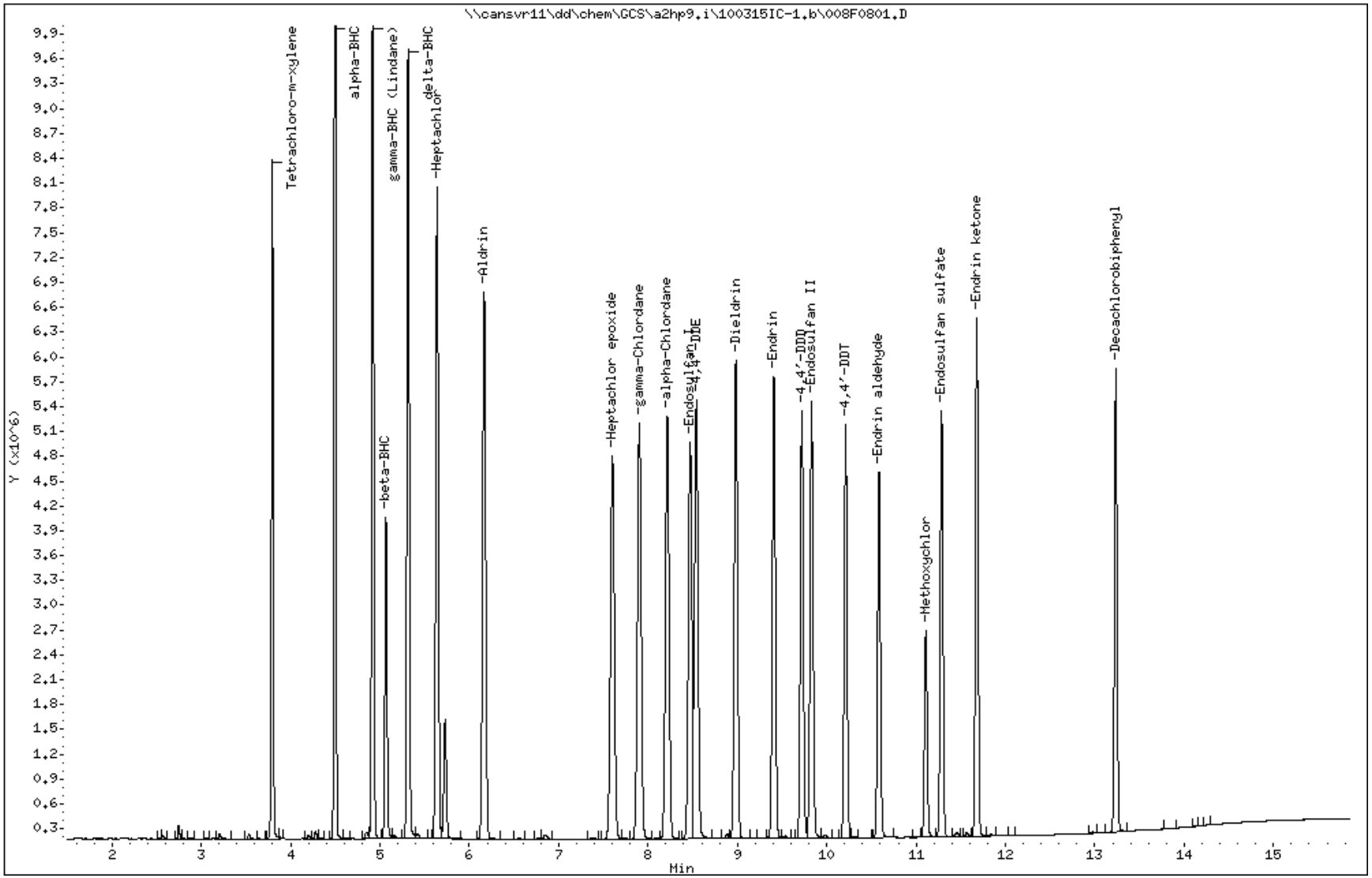
Instrument: a2hp9.i

Sample Info: AB5 G254,,1,5

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 11:05
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/008F0801.D
Lab Sample ID: AB5 G254
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.795	10904608	0.097	0.097
4) alpha-BHC	4.497	18863402	0.101	0.101
5) gamma-BHC (Lindane)	4.919	16852798	0.102	0.102
6) beta-BHC	5.067	6549704	0.096	0.096
7) delta-BHC	5.315	17266012	0.104	0.104
8) Heptachlor	5.639	16245476	0.100	0.100
10) Aldrin	6.166	15926570	0.101	0.101
12) Heptachlor epoxide	7.602	14170841	0.099	0.099
13) gamma-Chlordane	7.903	14887414	0.101	0.101
14) alpha-Chlordane	8.217	14483284	0.099	0.099
15) Endosulfan I	8.471	13264181	0.099	0.099
16) 4,4'-DDE	8.542	14391967	0.104	0.104
17) Dieldrin	8.983	14717447	0.103	0.103
18) Endrin	9.408	13545395	0.103	0.103
20) 4,4'-DDD	9.722	12038588	0.105	0.105
22) Endosulfan II	9.831	12597739	0.101	0.101
23) 4,4'-DDT	10.212	10946970	0.107	0.107
25) Endrin aldehyde	10.585	9882409	0.099	0.099
27) Methoxychlor	11.109	5303143	0.100	0.100
28) Endosulfan sulfate	11.285	10976436	0.100	0.100
29) Endrin ketone	11.679	13132797	0.100	0.100
30) Decachlorobiphenyl	13.234	11175417	0.095	0.095

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\009F0901.D
Lab Smp Id: AB6 G255
Inj Date : 15-MAR-2010 11:29
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB6 G255,,1,6
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 11:42 Quant Type: ESTD
Cal Date : 15-MAR-2010 11:29 Cal File: 009F0901.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.795	3.795	0.000	16616504	0.20000	0.1974		
4 alpha-BHC						CAS #: 319-84-6	
4.496	4.496	0.000	27585369	0.20000	0.2072		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.920	4.920	0.000	34957465	0.20000	0.2117		
6 beta-BHC						CAS #: 319-85-7	
5.066	5.066	0.000	8075493	0.20000	0.1997		
7 delta-BHC						CAS #: 319-86-8	
5.315	5.315	0.000	35900890	0.20000	0.2166		
Sum of Peak Amounts =					0.21660		
8 Heptachlor						CAS #: 76-44-8	
5.639	5.639	0.000	15836150	0.20000	0.2011		
10 Aldrin						CAS #: 309-00-2	
6.166	6.166	0.000	33025754	0.20000	0.2104		
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.601	7.601	0.000	9299102	0.20000	0.2001		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.902	7.902	0.000	10520302	0.20000	0.2112		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.214	8.214	0.000	10657605	0.20000	0.2077		

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   15 Endosulfan I                                CAS #: 959-98-8
8.470    8.470    0.000         9680881 0.20000   0.1995
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.541	0.000	30545986	0.20000	0.2185		
17 Dieldrin					CAS #: 60-57-1		
8.983	8.983	0.000	30143144	0.20000	0.2102		
18 Endrin					CAS #: 72-20-8		
9.408	9.408	0.000	11088051	0.20000	0.2035		
20 4,4'-DDD					CAS #: 72-54-8		
9.721	9.721	0.000	25032999	0.20000	0.2137		
22 Endosulfan II					CAS #: 33213-65-9		
9.831	9.831	0.000	10606576	0.20000	0.2022		
23 4,4'-DDT					CAS #: 50-29-3		
10.211	10.211	0.000	24051485	0.20000	0.2355		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.586	10.586	0.000	9010925	0.20000	0.2013		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	11042961	0.20000	0.2066		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.286	11.286	0.000	22408102	0.20000	0.2024		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.680	0.000	12709731	0.20000	0.2009		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.235	13.235	0.000	11289888	0.20000	0.1900		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\009F0901.D

Page 1

Date : 15-MAR-2010 11:29

Client ID:

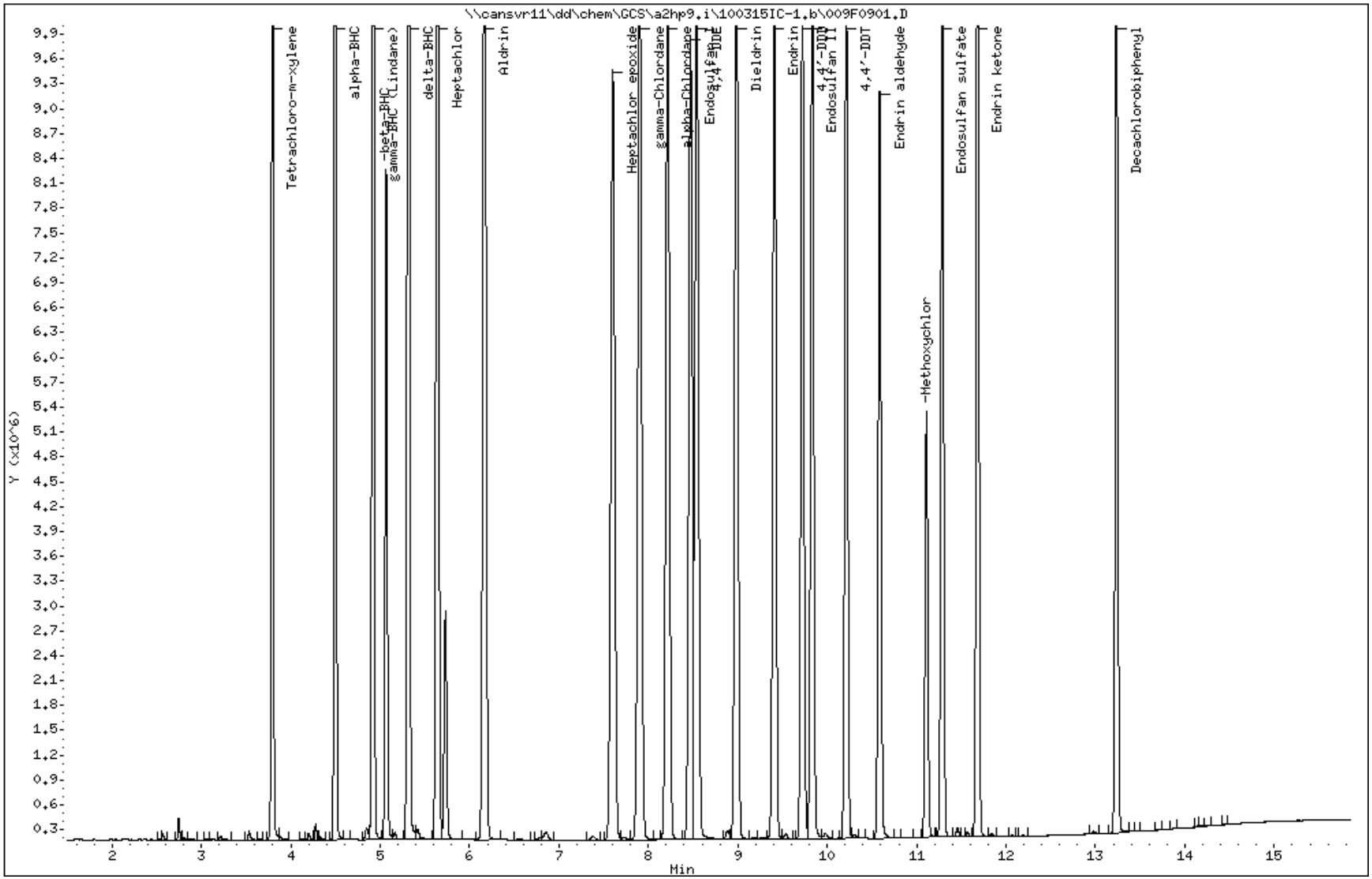
Instrument: a2hp9.i

Sample Info: AB6 G255,,1,6

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 11:29
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/009F0901.D
Lab Sample ID: AB6 G255
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.795	22234055	0.197	0.197
4) alpha-BHC	4.497	39021445	0.207	0.207
5) gamma-BHC (Lindane)	4.920	34957465	0.212	0.212
6) beta-BHC	5.067	13494522	0.200	0.200
7) delta-BHC	5.315	35900890	0.217	0.217
8) Heptachlor	5.639	33290556	0.201	0.201
10) Aldrin	6.166	33025754	0.210	0.210
12) Heptachlor epoxide	7.602	28910219	0.200	0.200
13) gamma-Chlordane	7.903	31171495	0.211	0.211
14) alpha-Chlordane	8.214	30180275	0.208	0.208
15) Endosulfan I	8.470	26916088	0.200	0.200
16) 4,4'-DDE	8.541	30545986	0.218	0.218
17) Dieldrin	8.984	30143144	0.210	0.210
18) Endrin	9.409	27724253	0.204	0.204
20) 4,4'-DDD	9.721	25032999	0.214	0.214
22) Endosulfan II	9.831	25563439	0.202	0.202
23) 4,4'-DDT	10.212	24051485	0.235	0.235
25) Endrin aldehyde	10.586	19994047	0.201	0.201
27) Methoxychlor	11.109	11042961	0.207	0.207
28) Endosulfan sulfate	11.286	22408102	0.202	0.202
29) Endrin ketone	11.680	26653898	0.201	0.201
30) Decachlorobiphenyl	13.235	22255577	0.190	0.190

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 12:40
Lab File ID: 012F1201.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: ICV Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	84173465	++++	++++	0.000	++++	15.00000	Averaged	<-
4 alpha-BHC	133126098	141889200	141889200	0.010	-6.58256	15.00000	Averaged	
5 gamma-BHC (Lindane)	165088708	164014160	164014160	0.010	0.65089	15.00000	Averaged	
6 beta-BHC	40431668	42191840	42191840	0.010	-4.35345	15.00000	Averaged	
7 delta-BHC	165754598	174646200	174646200	0.010	-5.36432	15.00000	Averaged	
8 Heptachlor	78731673	82676120	82676120	0.010	-5.00999	15.00000	Averaged	
10 Aldrin	156923965	153294240	153294240	0.010	2.31305	15.00000	Averaged	
12 Heptachlor epoxide	46480680	48379440	48379440	0.010	-4.08505	15.00000	Averaged	
13 gamma-Chlordane	49811115	51527720	51527720	0.010	-3.44623	15.00000	Averaged	
14 alpha-Chlordane	51312584	53359720	53359720	0.010	-3.98954	15.00000	Averaged	
15 Endosulfan I	48523034	51117480	51117480	0.010	-5.34683	15.00000	Averaged	
16 4,4'-DDE	139823780	141004240	141004240	0.010	-0.84425	15.00000	Averaged	
17 Dieldrin	143431818	150218160	150218160	0.010	-4.73141	15.00000	Averaged	
18 Endrin	54486263	57859320	57859320	0.010	-6.19066	15.00000	Averaged	
20 4,4'-DDD	117147756	127863720	127863720	0.010	-9.14739	15.00000	Averaged	
22 Endosulfan II	52467042	55611840	55611840	0.010	-5.99385	15.00000	Averaged	
23 4,4'-DDT	102138274	92465280	92465280	0.010	9.47049	15.00000	Averaged	
25 Endrin aldehyde	44770833	44587840	44587840	0.010	0.40873	15.00000	Averaged	
27 Methoxychlor	53449599	53602440	53602440	0.010	-0.28595	15.00000	Averaged	
28 Endosulfan sulfate	110718182	116217440	116217440	0.010	-4.96690	15.00000	Averaged	
29 Endrin ketone	63269941	63630040	63630040	0.010	-0.56915	15.00000	Averaged	
$ 30 Decachlorobiphenyl	59416517	++++	0.00000	0.010	++++	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 4.18753
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\012F1201.D
Lab Smp Id: ICV
Inj Date : 15-MAR-2010 12:40
Operator : 093905 Inst ID: a2hp9.i
Smp Info : ICV
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:02 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:41 Cal File: 017F1701.D
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-ab.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Peaks not detected for Quant. or Qual. signal(s).							
4 alpha-BHC					CAS #: 319-84-6		
4.497	4.497	0.000	3547230	0.02500	0.02664		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.919	4.919	0.000	4100354	0.02500	0.02484		
6 beta-BHC					CAS #: 319-85-7		
5.067	5.067	0.000	1054796	0.02500	0.02609		
7 delta-BHC					CAS #: 319-86-8		
5.315	5.315	0.000	4366155	0.02500	0.02634		
		Sum of Peak Amounts =			0.02634		
8 Heptachlor					CAS #: 76-44-8		
5.639	5.639	0.000	2066903	0.02500	0.02625		
10 Aldrin					CAS #: 309-00-2		
6.166	6.166	0.000	3832356	0.02500	0.02442		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.603	7.603	0.000	1209486	0.02500	0.02602		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.903	7.903	0.000	1288193	0.02500	0.02586		

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--------------------------------------------------------------------------------
   14 alpha-Chlordane                            CAS #: 5103-71-9
8.216    8.216    0.000         1333993 0.02500  0.02600
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
8.472	8.472	0.000	1277937	0.02500	0.02634		
16 4,4'-DDE					CAS #: 72-55-9		
8.542	8.542	0.000	3525106	0.02500	0.02521		
17 Dieldrin					CAS #: 60-57-1		
8.984	8.984	0.000	3755454	0.02500	0.02618		
18 Endrin					CAS #: 72-20-8		
9.408	9.408	0.000	1446483	0.02500	0.02655		
20 4,4'-DDD					CAS #: 72-54-8		
9.723	9.723	0.000	3196593	0.02500	0.02729		
22 Endosulfan II					CAS #: 33213-65-9		
9.831	9.831	0.000	1390296	0.02500	0.02650		
23 4,4'-DDT					CAS #: 50-29-3		
10.212	10.212	0.000	2311632	0.02500	0.02263		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.584	10.584	0.000	1114696	0.02500	0.02490		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	1340061	0.02500	0.02507		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.287	11.287	0.000	2905436	0.02500	0.02624		
29 Endrin ketone					CAS #: 53494-70-5		
11.679	11.679	0.000	1590751	0.02500	0.02514		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\012F1201.D

Date : 15-MAR-2010 12:40

Client ID:

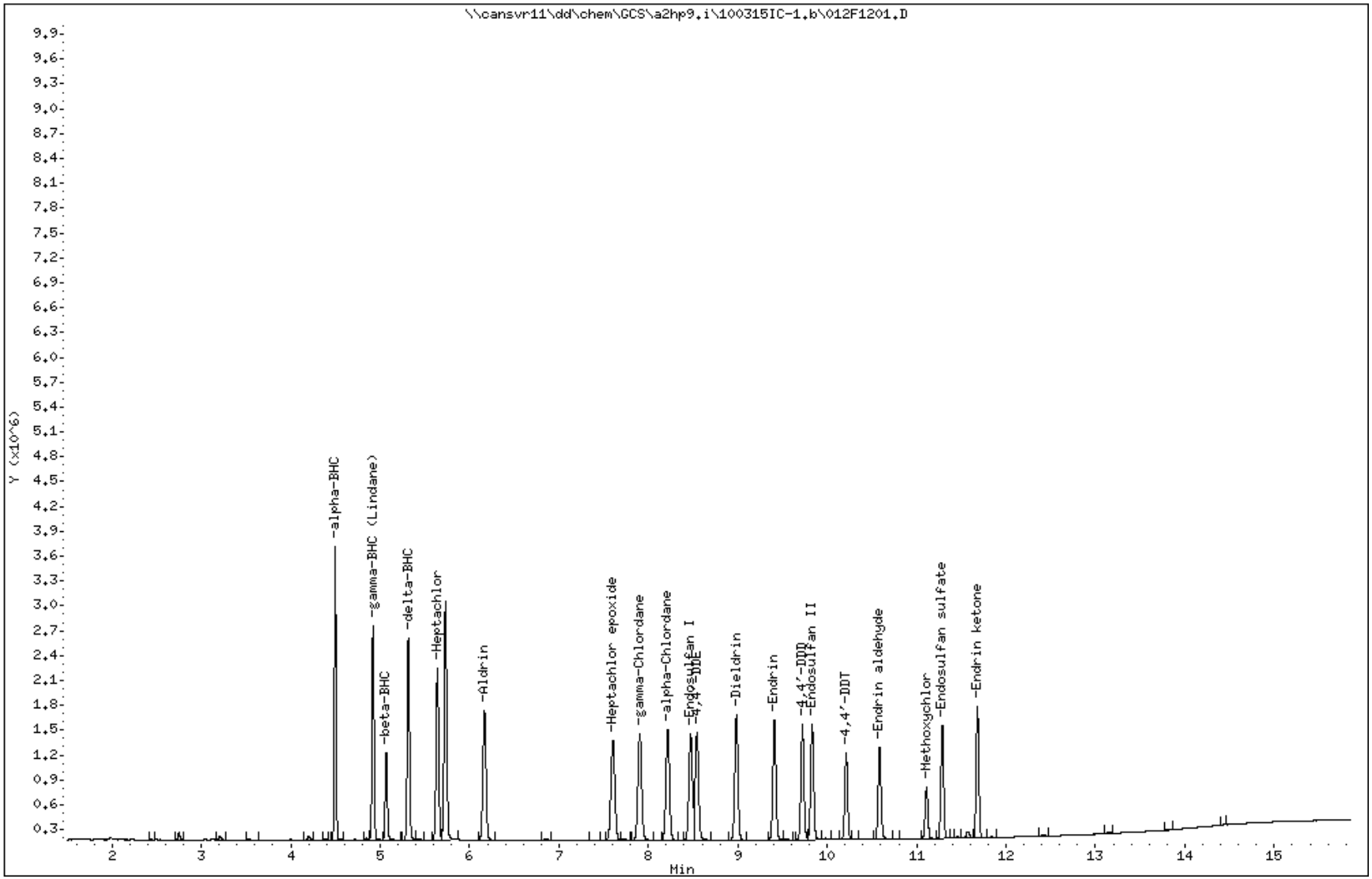
Instrument: a2hp9.i

Sample Info: ICV

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 12:40
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/012F1201.D
Lab Sample ID: ICV
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 3.795		
4) alpha-BHC	4.497	4839861	0.027	0.027
5) gamma-BHC (Lindane)	4.920	4100354	0.025	0.025
6) beta-BHC	5.067	1800359	0.026	0.026
7) delta-BHC	5.316	4366155	0.026	0.026
8) Heptachlor	5.640	4220795	0.026	0.026
10) Aldrin	6.166	3832356	0.024	0.024
12) Heptachlor epoxide	7.603	3721228	0.026	0.026
13) gamma-Chlordane	7.904	3794410	0.026	0.026
14) alpha-Chlordane	8.216	3754580	0.026	0.026
15) Endosulfan I	8.472	3498523	0.026	0.026
16) 4,4'-DDE	8.542	3525106	0.025	0.025
17) Dieldrin	8.985	3755454	0.026	0.026
18) Endrin	9.408	3513008	0.027	0.027
20) 4,4'-DDD	9.723	3196593	0.027	0.027
22) Endosulfan II	9.831	3315715	0.026	0.026
23) 4,4'-DDT	10.212	2311632	0.023	0.023
25) Endrin aldehyde	10.585	2569509	0.025	0.025
27) Methoxychlor	11.110	1340061	0.025	0.025
28) Endosulfan sulfate	11.287	2905436	0.026	0.026
29) Endrin ketone	11.680	3291757	0.025	0.025
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 13.235		

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\013F1301.D
Lab Smp Id: TOX1 G268
Inj Date : 15-MAR-2010 13:03
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX1 G268,,1,1
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 13:16 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.953	9.953	0.000	335961	0.20000	0.1829	80.00- 120.00	100.00
10.382	10.382	0.000	297167	0.20000	0.1641	114.04- 154.04	88.45
10.529	10.529	0.000	272717	0.20000	0.1711	115.64- 155.64	81.18
11.094	11.094	0.000	408452	0.20000	0.1759	52.78- 92.78	121.58
11.200	11.200	0.000	335795	0.20000	0.1546	69.36- 109.36	99.95
		Average of Peak Amounts =			0.16972		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\013F1301.D

Page 1

Date : 15-MAR-2010 13:03

Client ID:

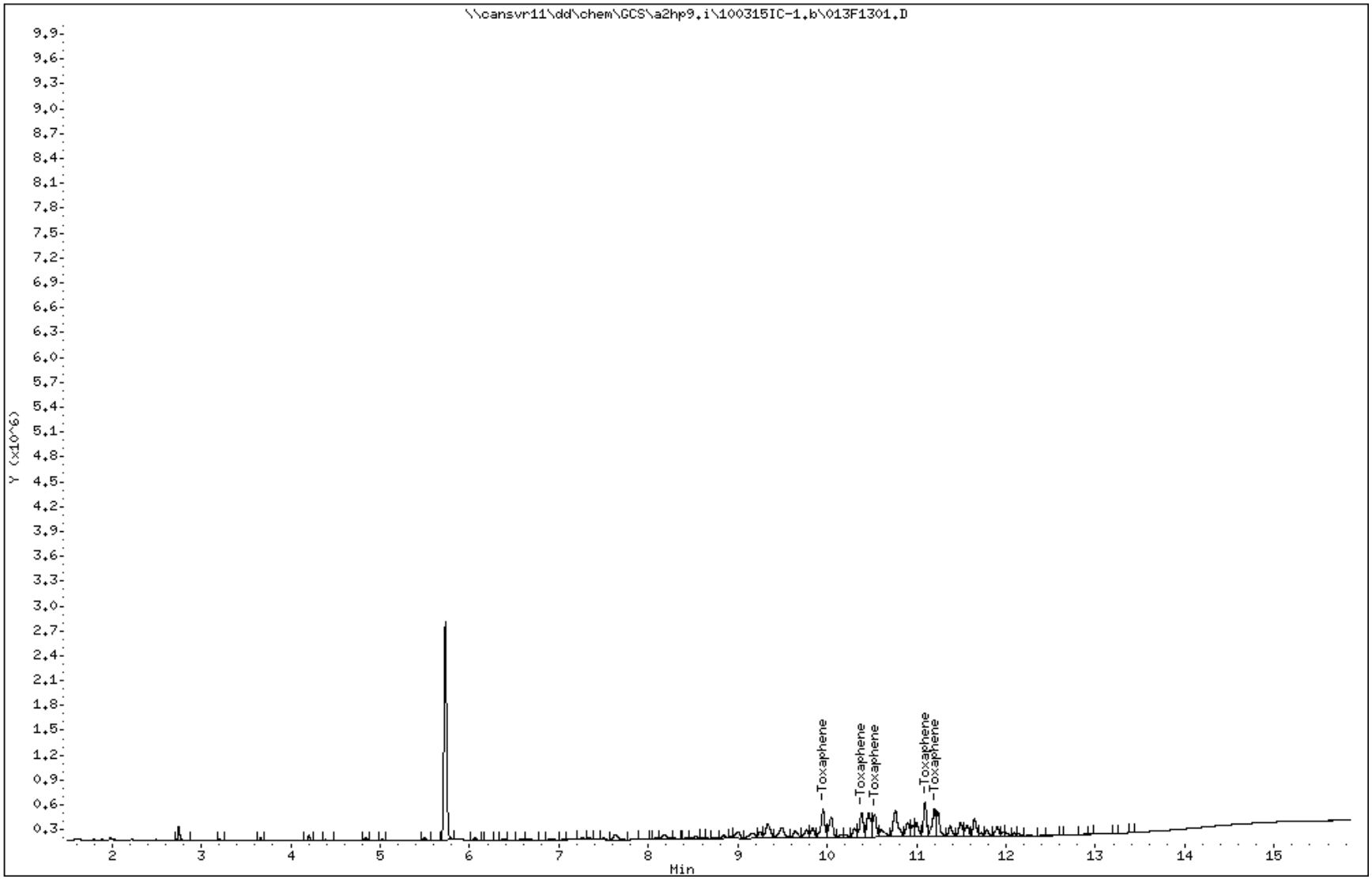
Instrument: a2hp9.i

Sample Info: TOX1 G268,,1,1

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 13:03
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/013F1301.D
Lab Sample ID: TOX1 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.954	966716	0.183	0.183

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\014F1401.D
Lab Smp Id: TOX2 G268
Inj Date : 15-MAR-2010 13:28
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX2 G268,,1,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 13:41 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:28 Cal File: 014F1401.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.954	9.954	0.000	911914	0.50000	0.4972	80.00- 120.00	100.00
10.386	10.386	0.000	858691	0.50000	0.4795	114.04- 154.04	94.16
10.534	10.534	0.000	777631	0.50000	0.4912	115.64- 155.64	85.27
11.096	11.096	0.000	1116547	0.50000	0.4864	52.78- 92.78	122.44
11.199	11.199	0.000	976273	0.50000	0.4605	69.36- 109.36	107.06
		Average of Peak Amounts =			0.48296		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\014F1401.D

Date : 15-MAR-2010 13:28

Client ID:

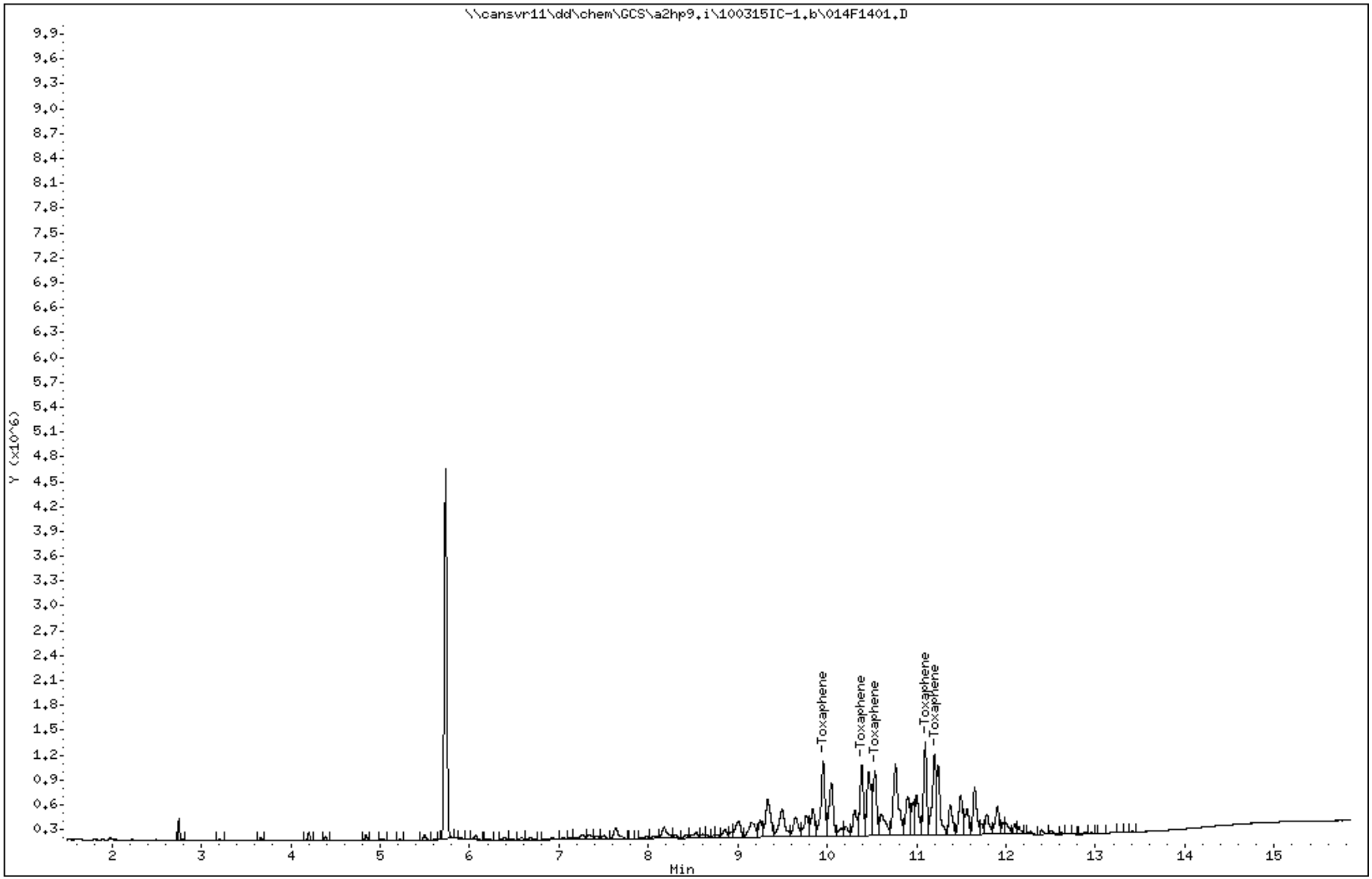
Instrument: a2hp9.i

Sample Info: TOX2 G268,,1,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 13:28
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/014F1401.D
Lab Sample ID: TOX2 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.955	2731889	0.497	0.497

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\015F1501.D
Lab Smp Id: TOX3 G268
Inj Date : 15-MAR-2010 13:52
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,1,3
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 14:05 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:52 Cal File: 015F1501.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.954	9.954	0.000	1910286	1.00000	1.020	80.00- 120.00	100.00
10.386	10.386	0.000	1822560	1.00000	1.009	114.04- 154.04	95.41
10.534	10.534	0.000	1594703	1.00000	0.9956	115.64- 155.64	83.48
11.096	11.096	0.000	2252294	1.00000	0.9744	52.78- 92.78	117.90
11.199	11.199	0.000	2040984	1.00000	0.9677	69.36- 109.36	106.84
		Average of Peak Amounts =			0.99334		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\015F1501.D

Date : 15-MAR-2010 13:52

Client ID:

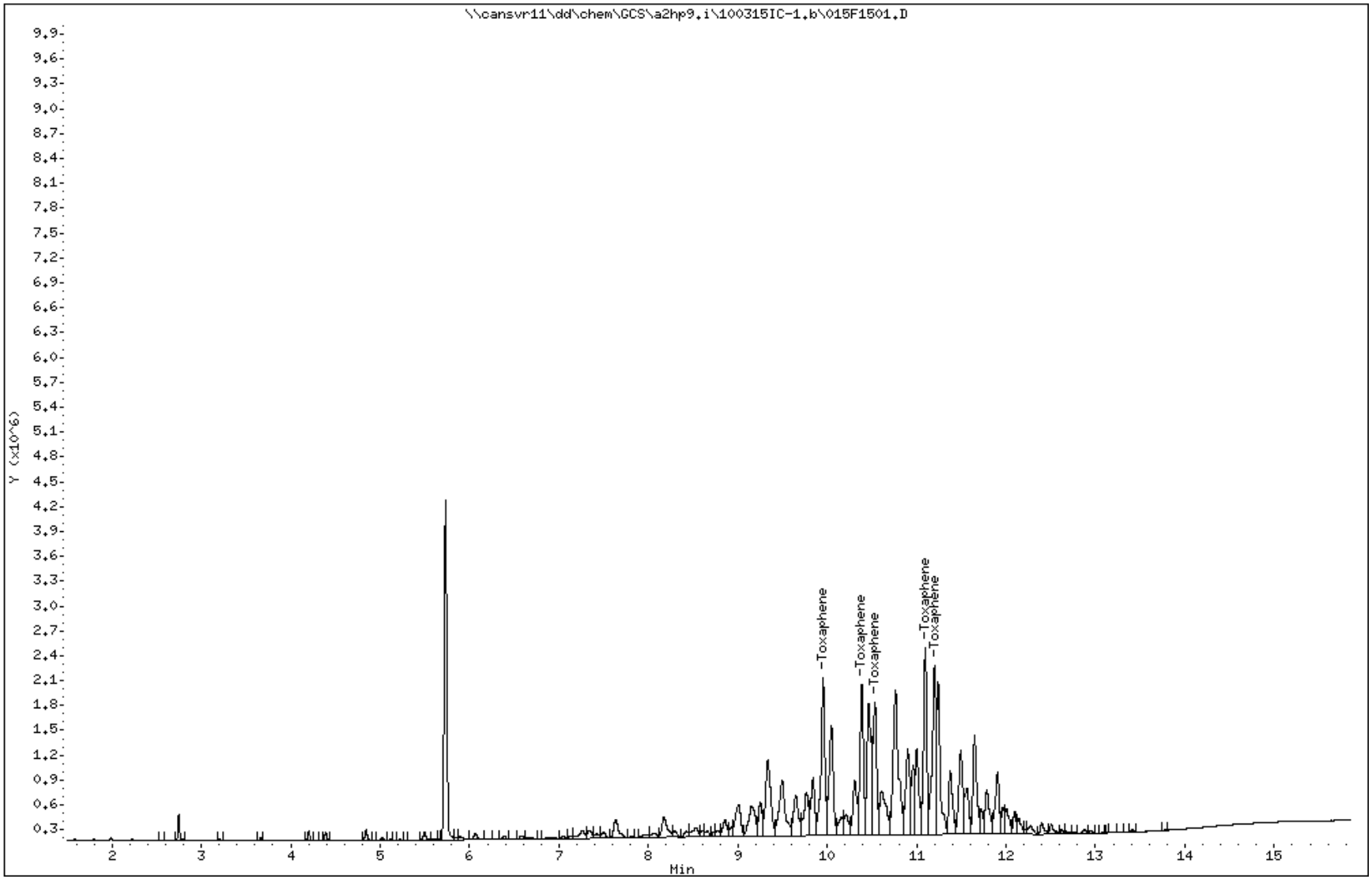
Instrument: a2hp9.i

Sample Info: TOX3 G268,,1,3

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 13:52
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/015F1501.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.954	5714853	1.020	1.020

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D
Lab Smp Id: TOX4 G268
Inj Date : 15-MAR-2010 14:16
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX4 G268,,1,4
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:02 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.955	9.955	0.000	3976823	2.00000	2.090	80.00- 120.00	100.00(M)
10.386	10.386	0.000	3968771	2.00000	2.171	114.04- 154.04	99.80
10.534	10.534	0.000	3486912	2.00000	2.148	115.64- 155.64	87.68
11.096	11.096	0.000	4910305	2.00000	2.121	52.78- 92.78	123.47
11.199	11.199	0.000	4628450	2.00000	2.201	69.36- 109.36	116.39
		Average of Peak Amounts =			2.14620		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D

Page 1

Date : 15-MAR-2010 14:16

Client ID:

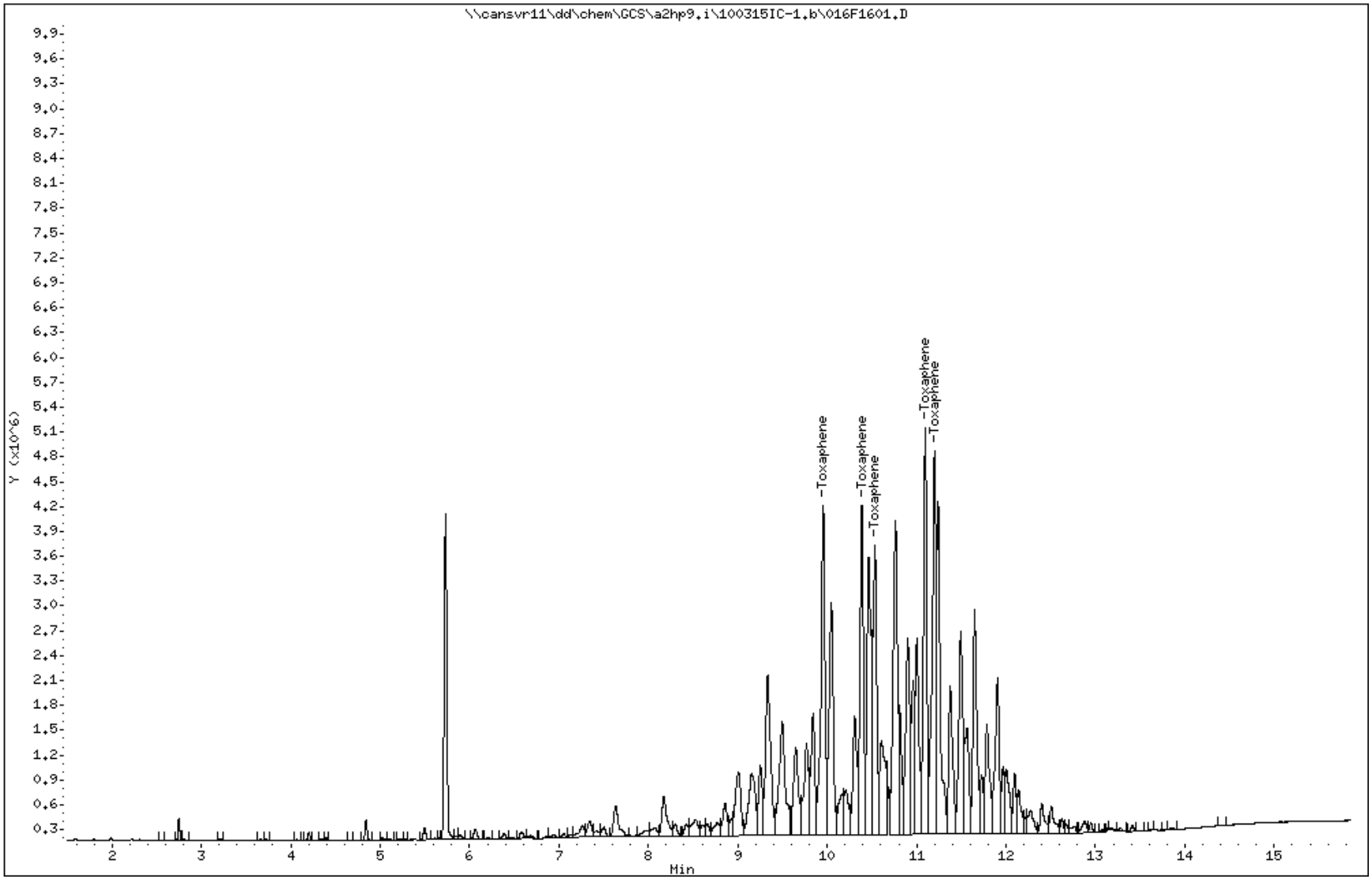
Instrument: a2hp9.i

Sample Info: TOX4 G268,,1,4

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

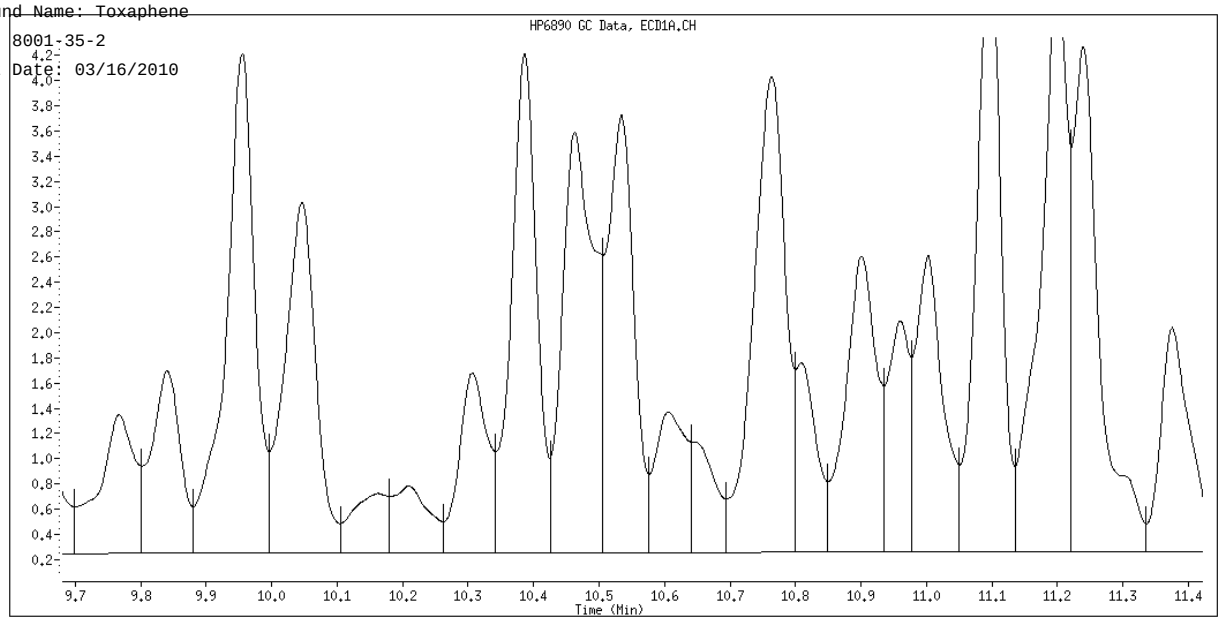


COMPOUNDS and EXP. RT REPORT

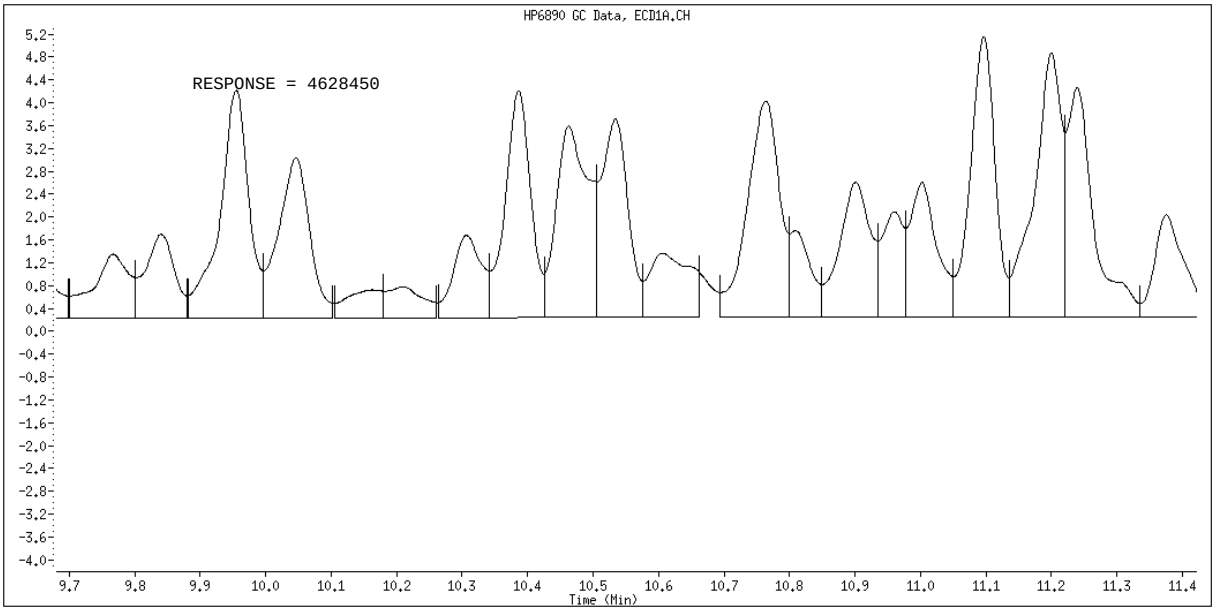
Operator: 093905 Date Acquired: 15-MAR-2010 14:16
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\016F1601.D
Lab Sample ID: TOX4 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.955	12326141	2.090	2.090

Data File Name: 016F1601.D
Inj. Date and Time: 15-MAR-2010 14:16
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\017F1701.D
Lab Smp Id: TOX5 G268
Inj Date : 15-MAR-2010 14:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX5 G268,,1,5
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 14:54 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:41 Cal File: 017F1701.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.956	9.956	0.000	10556063	5.00000	5.704	80.00- 120.00	100.00
10.386	10.386	0.000	10641413	5.00000	6.057	114.04- 154.04	100.81
10.534	10.534	0.000	9299590	5.00000	5.986	115.64- 155.64	88.10
11.095	11.095	0.000	12952961	5.00000	5.687	52.78- 92.78	122.71
11.199	11.199	0.000	12633701	5.00000	6.111	69.36- 109.36	119.68
		Average of Peak Amounts =			5.90900		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\017F1701.D

Page 1

Date : 15-MAR-2010 14:41

Client ID:

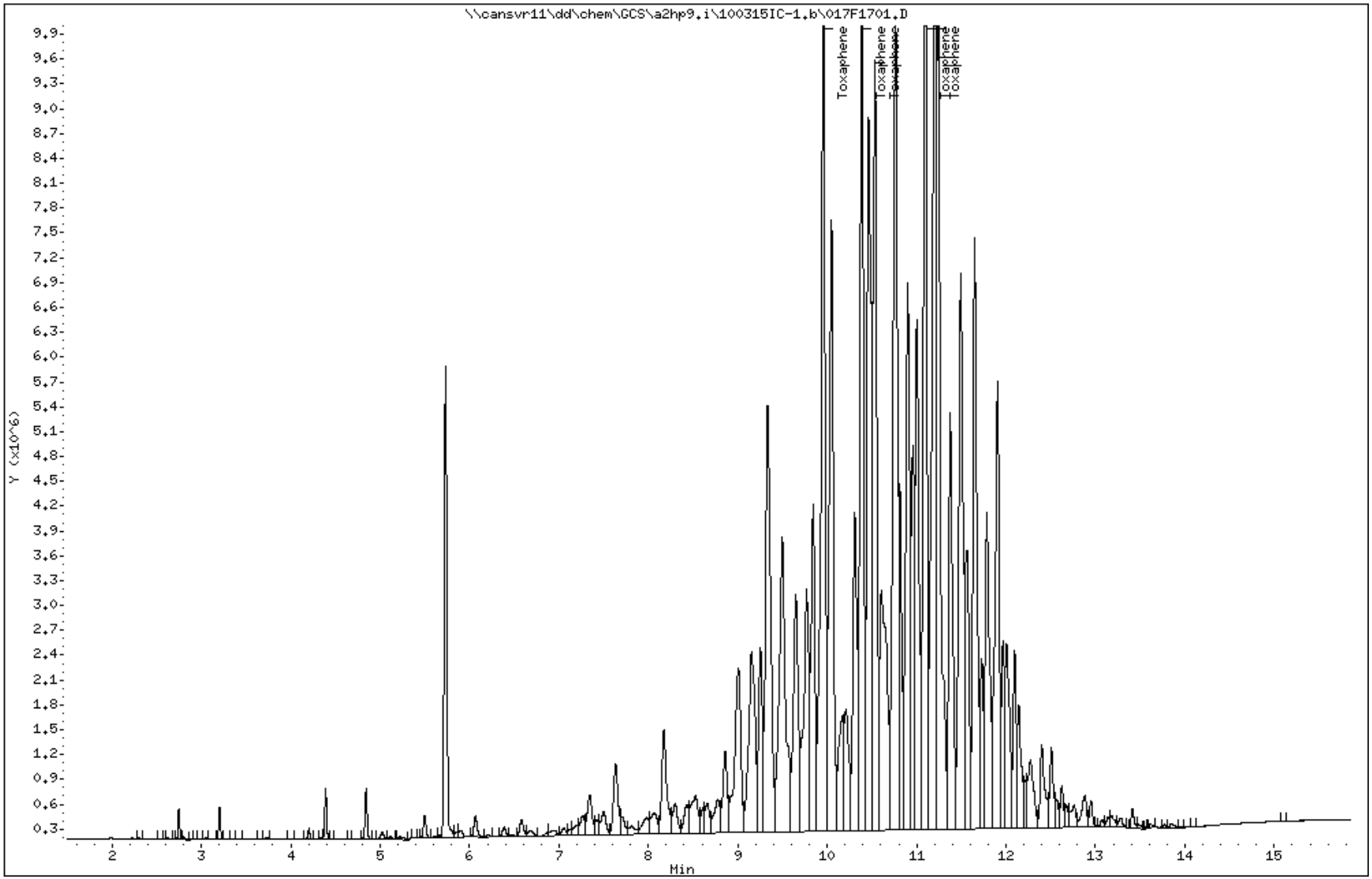
Instrument: a2hp9.i

Sample Info: TOX5 G268,,1,5

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 14:41
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/017F1701.D
Lab Sample ID: TOX5 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.956	32638535	5.704	5.704

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\004F0401.D
Lab Smp Id: AB1 G250
Inj Date : 15-MAR-2010 09:30
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB1 G250,,1,1
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 09:43 Quant Type: ESTD
Cal Date : 09-MAR-2010 12:34 Cal File: 010F1001.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.368	0.000	242345	0.00500	0.005019		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	474051	0.00500	0.004442		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.941	5.941	0.000	451520	0.00500	0.004658		
6 beta-BHC						CAS #: 319-85-7	
6.148	6.148	0.000	263015	0.00500	0.006114		
7 delta-BHC						CAS #: 319-86-8	
6.803	6.803	0.000	436505	0.00500	0.004623		
8 Heptachlor						CAS #: 76-44-8	
6.918	6.918	0.000	463307	0.00500	0.005034		
10 Aldrin						CAS #: 309-00-2	
7.743	7.743	0.000	137857	0.00500	0.004591		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.089	9.089	0.000	400253	0.00500	0.004966		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.477	9.477	0.000	396586	0.00500	0.004939		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.762	9.762	0.000	395645	0.00500	0.005020		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.827    9.827    0.000          370462 0.00500  0.005034
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.170	10.170	0.000	152434	0.00500	0.004856		
17 Dieldrin					CAS #: 60-57-1		
10.324	10.324	0.000	365882	0.00500	0.004774		
18 Endrin					CAS #: 72-20-8		
10.826	10.826	0.000	336309	0.00500	0.004972		
21 4,4'-DDD					CAS #: 72-54-8		
11.143	11.143	0.000	137338	0.00500	0.005322		
22 Endosulfan II					CAS #: 33213-65-9		
11.186	11.186	0.000	164307	0.00500	0.005222		
24 4,4'-DDT					CAS #: 50-29-3		
11.625	11.625	0.000	110012	0.00500	0.004151		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.733	11.733	0.000	298287	0.00500	0.005707		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.154	12.154	0.000	153044	0.00500	0.005359		
27 Methoxychlor					CAS #: 72-43-5		
12.674	12.674	0.000	132299	0.00500	0.005015		
29 Endrin ketone					CAS #: 53494-70-5		
12.893	12.893	0.000	345018	0.00500	0.005076		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.645	14.645	0.000	355003	0.00500	0.005765		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\004F0401.D

Date : 15-MAR-2010 09:30

Client ID:

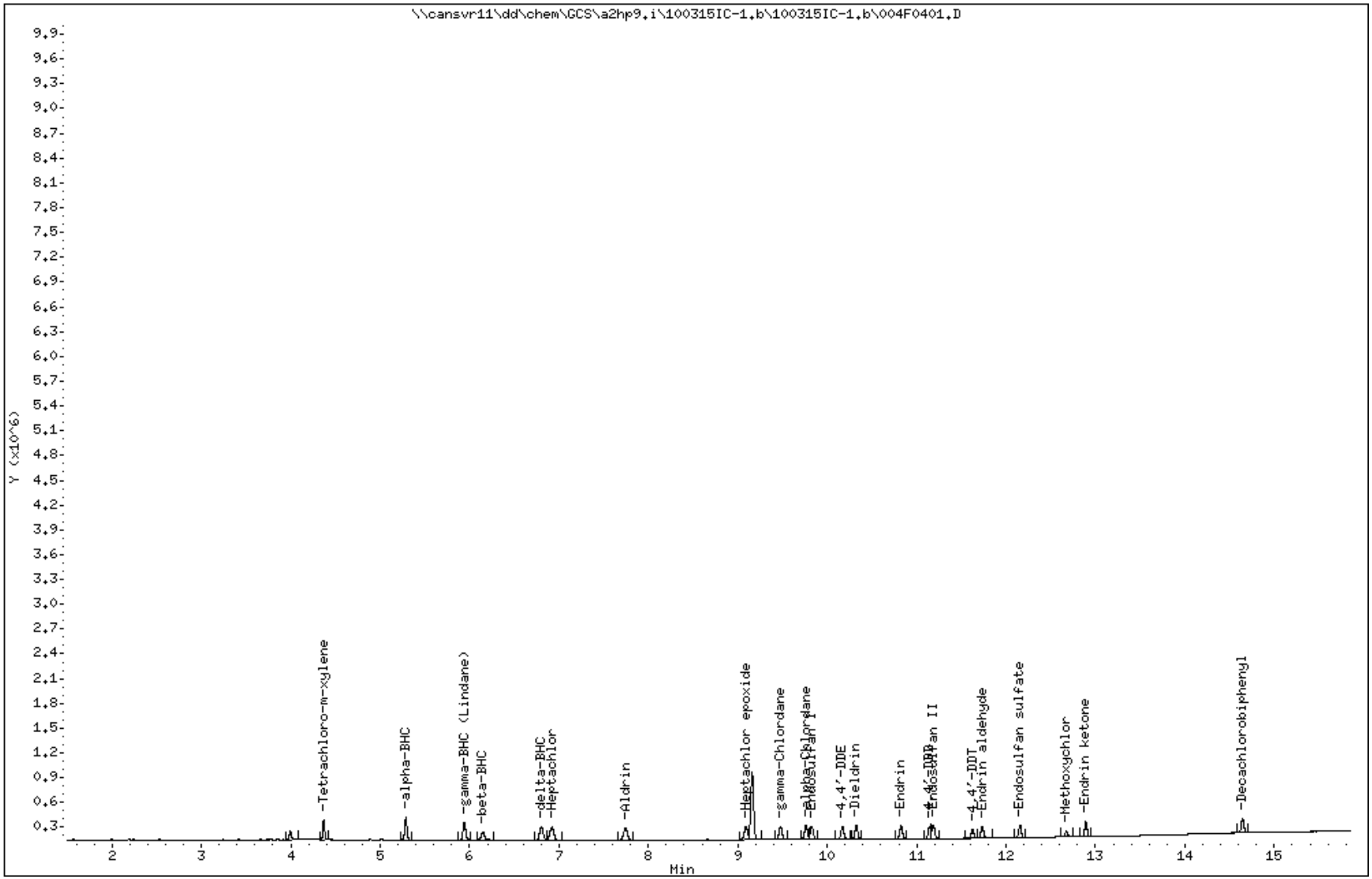
Instrument: a2hp9.i

Sample Info: AB1 G250,,1,1

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 09:30
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\004F0401.D
Lab Sample ID: AB1 G250
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.369	329938	0.005	0.005
4) alpha-BHC	5.286	474051	0.004	0.004
5) gamma-BHC (Lindane)	5.941	451520	0.005	0.005
6) beta-BHC	6.149	263015	0.006	0.006
7) delta-BHC	6.803	436505	0.005	0.005
8) Heptachlor	6.919	463307	0.005	0.005
10) Aldrin	7.744	431231	0.005	0.005
12) Heptachlor epoxide	9.090	400253	0.005	0.005
13) gamma-Chlordane	9.477	396586	0.005	0.005
14) alpha-Chlordane	9.762	395645	0.005	0.005
15) Endosulfan I	9.827	370462	0.005	0.005
16) 4,4'-DDE	10.171	352306	0.005	0.005
17) Dieldrin	10.325	365882	0.005	0.005
18) Endrin	10.826	336309	0.005	0.005
21) 4,4'-DDD	11.143	280014	0.005	0.005
22) Endosulfan II	11.186	352875	0.005	0.005
24) 4,4'-DDT	11.626	227367	0.004	0.004
25) Endrin aldehyde	11.733	298287	0.006	0.006
26) Endosulfan sulfate	12.155	307400	0.005	0.005
27) Methoxychlor	12.675	132299	0.005	0.005
29) Endrin ketone	12.893	345018	0.005	0.005
30) Decachlorobiphenyl	14.646	355003	0.006	0.006

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\005F0501.D
Lab Smp Id: AB2 G251
Inj Date : 15-MAR-2010 09:54
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB2 G251,,1,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 10:07 Quant Type: ESTD
Cal Date : 09-MAR-2010 12:58 Cal File: 011F1101.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.368	0.000	487437	0.01000	0.01000		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	989931	0.01000	0.009211		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.940	5.940	0.000	922224	0.01000	0.009444		
6 beta-BHC						CAS #: 319-85-7	
6.146	6.146	0.000	479849	0.01000	0.01087		
7 delta-BHC						CAS #: 319-86-8	
6.800	6.800	0.000	887232	0.01000	0.009294		
8 Heptachlor						CAS #: 76-44-8	
6.918	6.918	0.000	911108	0.01000	0.009834		
10 Aldrin						CAS #: 309-00-2	
7.743	7.743	0.000	281608	0.01000	0.009340		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.089	9.089	0.000	784495	0.01000	0.009706		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.477	9.477	0.000	773709	0.01000	0.009586		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.763	9.763	0.000	767535	0.01000	0.009696		

```
   15 Endosulfan I                               CAS #: 959-98-8
9.827    9.827    0.000          724239 0.01000  0.009789
-------------------------------------------------------------------------------
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RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
10.169	10.169	0.000	303738	0.01000	0.009549		
17 Dieldrin						CAS #: 60-57-1	
10.324	10.324	0.000	719639	0.01000	0.009350		
18 Endrin						CAS #: 72-20-8	
10.826	10.826	0.000	657917	0.01000	0.009630		
21 4,4'-DDD						CAS #: 72-54-8	
11.143	11.143	0.000	271743	0.01000	0.01021		
22 Endosulfan II						CAS #: 33213-65-9	
11.186	11.186	0.000	307074	0.01000	0.009669		
24 4,4'-DDT						CAS #: 50-29-3	
11.624	11.624	0.000	225777	0.01000	0.008632		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.733	11.733	0.000	527900	0.01000	0.009978		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.154	12.154	0.000	287031	0.01000	0.009913		
27 Methoxychlor						CAS #: 72-43-5	
12.674	12.674	0.000	254956	0.01000	0.009680		
29 Endrin ketone						CAS #: 53494-70-5	
12.893	12.893	0.000	677535	0.01000	0.009931		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.645	14.645	0.000	673935	0.01000	0.01080		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\005F0501.D

Date : 15-MAR-2010 09:54

Client ID:

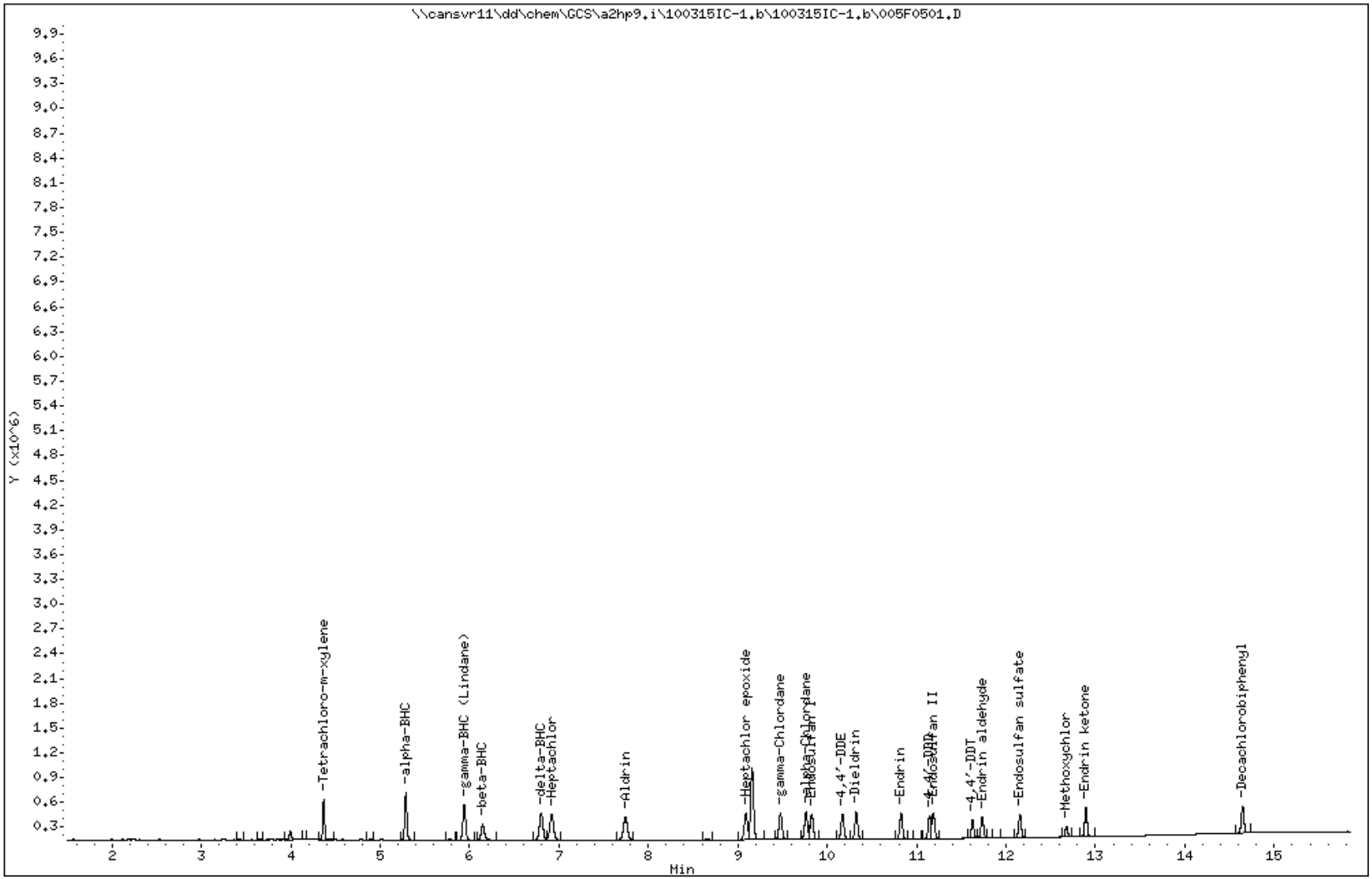
Instrument: a2hp9.i

Sample Info: AB2 G251,,1,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 09:54
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\005F0501.D
Lab Sample ID: AB2 G251
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.368	667616	0.010	0.010
4) alpha-BHC	5.286	989931	0.009	0.009
5) gamma-BHC (Lindane)	5.941	922224	0.009	0.009
6) beta-BHC	6.146	479849	0.011	0.011
7) delta-BHC	6.801	887232	0.009	0.009
8) Heptachlor	6.918	911108	0.010	0.010
10) Aldrin	7.743	863596	0.009	0.009
12) Heptachlor epoxide	9.090	784495	0.010	0.010
13) gamma-Chlordane	9.477	773709	0.010	0.010
14) alpha-Chlordane	9.763	767535	0.010	0.010
15) Endosulfan I	9.827	724239	0.010	0.010
16) 4,4'-DDE	10.170	686603	0.010	0.010
17) Dieldrin	10.325	719639	0.009	0.009
18) Endrin	10.826	657917	0.010	0.010
21) 4,4'-DDD	11.143	547556	0.010	0.010
22) Endosulfan II	11.186	666773	0.010	0.010
24) 4,4'-DDT	11.625	444347	0.009	0.009
25) Endrin aldehyde	11.733	527900	0.010	0.010
26) Endosulfan sulfate	12.155	578251	0.010	0.010
27) Methoxychlor	12.675	254956	0.010	0.010
29) Endrin ketone	12.893	677535	0.010	0.010
30) Decachlorobiphenyl	14.646	673935	0.011	0.011

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\006F0601.D
Lab Smp Id: AB3 G252
Inj Date : 15-MAR-2010 10:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,1,3
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 10:30 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:23 Cal File: 012F1201.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.368	0.000	1195103	0.02500	0.02454		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	2614256	0.02500	0.02434		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.941	5.941	0.000	2374553	0.02500	0.02430		
6 beta-BHC						CAS #: 319-85-7	
6.146	6.146	0.000	1067470	0.02500	0.02411		
7 delta-BHC						CAS #: 319-86-8	
6.801	6.801	0.000	2355939	0.02500	0.02454		
8 Heptachlor						CAS #: 76-44-8	
6.919	6.919	0.000	2304835	0.02500	0.02480		
10 Aldrin						CAS #: 309-00-2	
7.743	7.743	0.000	729079	0.02500	0.02425		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.091	9.091	0.000	1967154	0.02500	0.02437		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.477	9.477	0.000	1951849	0.02500	0.02417		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.762	9.762	0.000	1917791	0.02500	0.02423		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.826    9.826    0.000         1797884 0.02500  0.02432
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.170	10.170	0.000	795938	0.02500	0.02485		
17 Dieldrin					CAS #: 60-57-1		
10.324	10.324	0.000	1839346	0.02500	0.02400		
18 Endrin					CAS #: 72-20-8		
10.826	10.826	0.000	1700899	0.02500	0.02479		
21 4,4'-DDD					CAS #: 72-54-8		
11.142	11.142	0.000	710963	0.02500	0.02611		
22 Endosulfan II					CAS #: 33213-65-9		
11.185	11.185	0.000	782175	0.02500	0.02456		
24 4,4'-DDT					CAS #: 50-29-3		
11.624	11.624	0.000	599033	0.02500	0.02328		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.732	11.732	0.000	1311589	0.02500	0.02467		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.155	12.155	0.000	718991	0.02500	0.02467		
27 Methoxychlor					CAS #: 72-43-5		
12.674	12.674	0.000	641915	0.02500	0.02465		
29 Endrin ketone					CAS #: 53494-70-5		
12.892	12.892	0.000	1690046	0.02500	0.02484		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.645	14.645	0.000	1576215	0.02500	0.02522		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\006F0601.D

Date : 15-MAR-2010 10:17

Client ID:

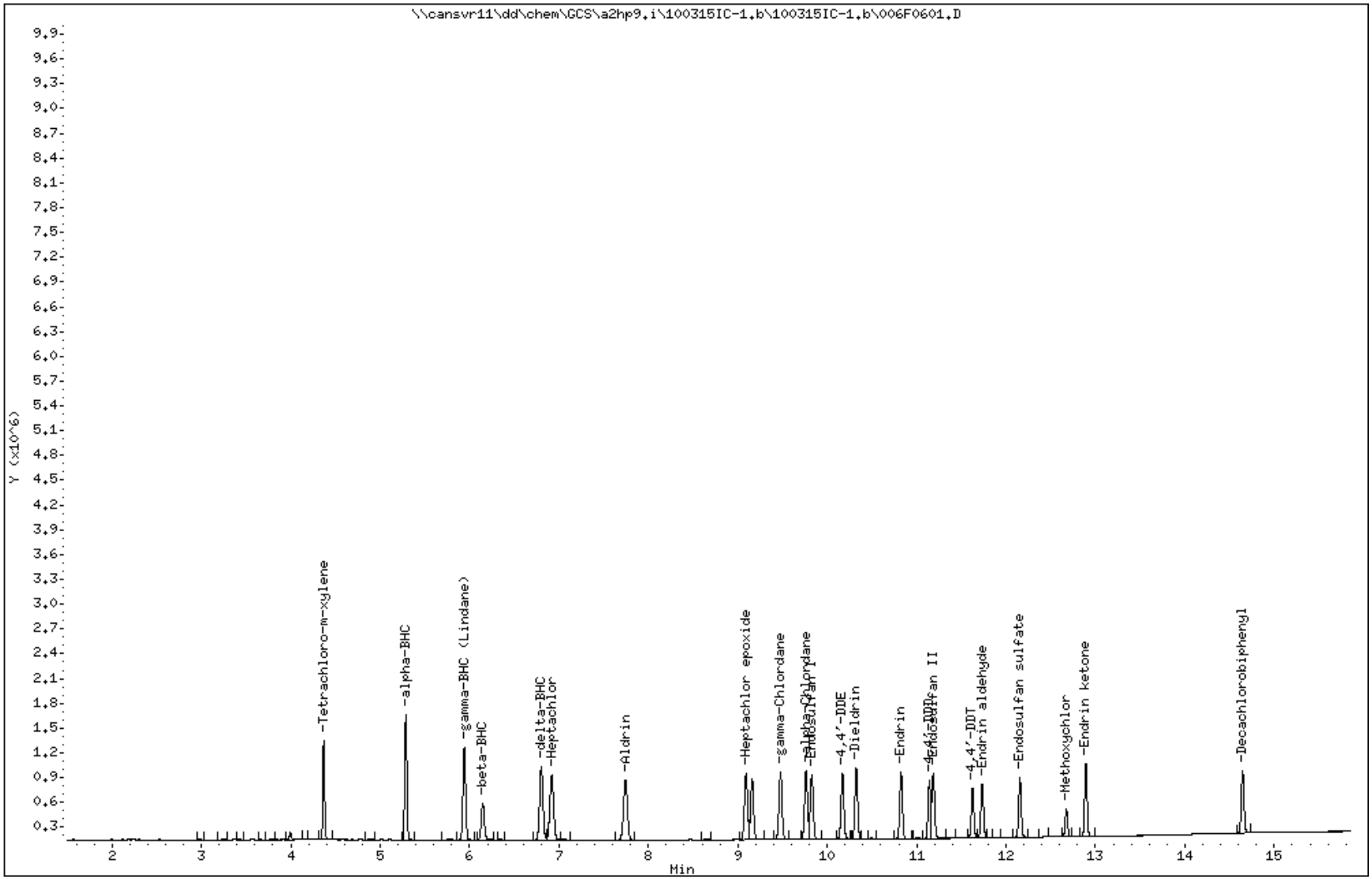
Instrument: a2hp9.i

Sample Info: AB3 G252,,1,3

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 10:17
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\006F0601.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.369	1611628	0.025	0.025
4) alpha-BHC	5.286	2614256	0.024	0.024
5) gamma-BHC (Lindane)	5.941	2374553	0.024	0.024
6) beta-BHC	6.147	1067470	0.024	0.024
7) delta-BHC	6.802	2355939	0.025	0.025
8) Heptachlor	6.919	2304835	0.025	0.025
10) Aldrin	7.744	2183145	0.024	0.024
12) Heptachlor epoxide	9.091	1967154	0.024	0.024
13) gamma-Chlordane	9.478	1951849	0.024	0.024
14) alpha-Chlordane	9.763	1917791	0.024	0.024
15) Endosulfan I	9.827	1797884	0.024	0.024
16) 4,4'-DDE	10.170	1755385	0.025	0.025
17) Dieldrin	10.324	1839346	0.024	0.024
18) Endrin	10.826	1700899	0.025	0.025
21) 4,4'-DDD	11.143	1417559	0.026	0.026
22) Endosulfan II	11.185	1690669	0.025	0.025
24) 4,4'-DDT	11.624	1186338	0.023	0.023
25) Endrin aldehyde	11.733	1311589	0.025	0.025
26) Endosulfan sulfate	12.155	1449719	0.025	0.025
27) Methoxychlor	12.674	641915	0.025	0.025
29) Endrin ketone	12.893	1690046	0.025	0.025
30) Decachlorobiphenyl	14.645	1576215	0.025	0.025

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\007F0701.D
Lab Smp Id: AB4 G253
Inj Date : 15-MAR-2010 10:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB4 G253,,1,4
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 10:54 Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.368	0.000	2574986	0.05000	0.05213		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	5877703	0.05000	0.05397		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.941	5.941	0.000	5281200	0.05000	0.05329		
6 beta-BHC						CAS #: 319-85-7	
6.146	6.146	0.000	2186433	0.05000	0.04872		
7 delta-BHC						CAS #: 319-86-8	
6.802	6.802	0.000	5266795	0.05000	0.05392		
8 Heptachlor						CAS #: 76-44-8	
6.919	6.919	0.000	5004287	0.05000	0.05289		
10 Aldrin						CAS #: 309-00-2	
7.744	7.744	0.000	1624910	0.05000	0.05340		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.091	9.091	0.000	4239244	0.05000	0.05203		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.477	9.477	0.000	4223574	0.05000	0.05180		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.762	9.762	0.000	4086294	0.05000	0.05119		

```
   15 Endosulfan I                               CAS #: 959-98-8
9.827    9.827    0.000         3847500 0.05000  0.05162
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
10.169	10.169	0.000	1742413	0.05000	0.05356		
17 Dieldrin						CAS #: 60-57-1	
10.324	10.324	0.000	4021333	0.05000	0.05224		
18 Endrin						CAS #: 72-20-8	
10.825	10.825	0.000	3649759	0.05000	0.05257		
21 4,4'-DDD						CAS #: 72-54-8	
11.142	11.142	0.000	1535619	0.05000	0.05477		
22 Endosulfan II						CAS #: 33213-65-9	
11.185	11.185	0.000	1660823	0.05000	0.05181		
24 4,4'-DDT						CAS #: 50-29-3	
11.625	11.625	0.000	1324579	0.05000	0.05191		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.732	11.732	0.000	2676074	0.05000	0.05009		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.154	12.154	0.000	1510005	0.05000	0.05133		
27 Methoxychlor						CAS #: 72-43-5	
12.674	12.674	0.000	1341844	0.05000	0.05156		
29 Endrin ketone						CAS #: 53494-70-5	
12.892	12.892	0.000	3550988	0.05000	0.05186		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.644	14.644	0.000	3171870	0.05000	0.05041		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\007F0701.D

Date : 15-MAR-2010 10:41

Client ID:

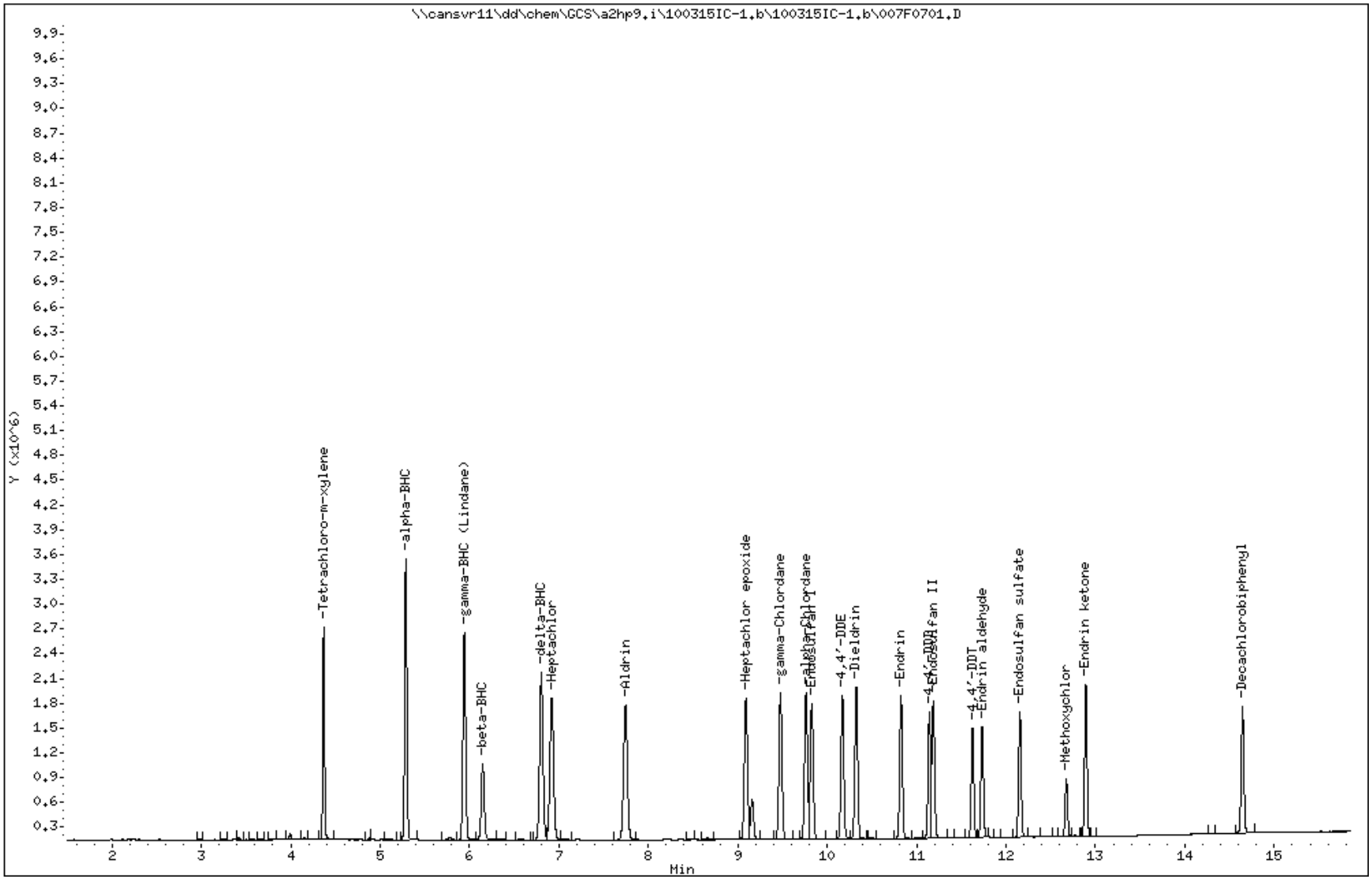
Instrument: a2hp9.i

Sample Info: AB4 G253,,1,4

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 10:41
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\007F0701.D
Lab Sample ID: AB4 G253
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.368	3453667	0.052	0.052
4) alpha-BHC	5.287	5877703	0.054	0.054
5) gamma-BHC (Lindane)	5.942	5281200	0.053	0.053
6) beta-BHC	6.147	2186433	0.049	0.049
7) delta-BHC	6.802	5266795	0.054	0.054
8) Heptachlor	6.919	5004287	0.053	0.053
10) Aldrin	7.744	4816282	0.053	0.053
12) Heptachlor epoxide	9.092	4239244	0.052	0.052
13) gamma-Chlordane	9.477	4223574	0.052	0.052
14) alpha-Chlordane	9.762	4086294	0.051	0.051
15) Endosulfan I	9.827	3847500	0.052	0.052
16) 4,4'-DDE	10.169	3790234	0.054	0.054
17) Dieldrin	10.325	4021333	0.052	0.052
18) Endrin	10.826	3649759	0.053	0.053
21) 4,4'-DDD	11.142	3065087	0.055	0.055
22) Endosulfan II	11.186	3532078	0.052	0.052
24) 4,4'-DDT	11.626	2600779	0.052	0.052
25) Endrin aldehyde	11.732	2676074	0.050	0.050
26) Endosulfan sulfate	12.155	3012354	0.051	0.051
27) Methoxychlor	12.674	1341844	0.052	0.052
29) Endrin ketone	12.892	3550988	0.052	0.052
30) Decachlorobiphenyl	14.645	3171870	0.050	0.050

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\008F0801.D
Lab Smp Id: AB5 G254
Inj Date : 15-MAR-2010 11:05
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB5 G254,,1,5
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 11:18 Quant Type: ESTD
Cal Date : 09-MAR-2010 14:13 Cal File: 014F1401.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.368	0.000	4785302	0.10000	0.09745		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	11218121	0.10000	0.1037		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.940	5.940	0.000	10074719	0.10000	0.1021		
6 beta-BHC						CAS #: 319-85-7	
6.145	6.145	0.000	4023559	0.10000	0.08979		
7 delta-BHC						CAS #: 319-86-8	
6.800	6.800	0.000	10307341	0.10000	0.1053		
8 Heptachlor						CAS #: 76-44-8	
6.917	6.917	0.000	9439038	0.10000	0.09974		
10 Aldrin						CAS #: 309-00-2	
7.742	7.742	0.000	3054309	0.10000	0.1012		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.090	9.090	0.000	8068162	0.10000	0.09934		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.475	9.475	0.000	8136289	0.10000	0.1000		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.762	9.762	0.000	7835757	0.10000	0.09858		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.826    9.826    0.000         7383216 0.10000  0.09918
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				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
10.168	10.168	0.000	3393444	0.10000	0.1036		
17 Dieldrin					CAS #: 60-57-1		
10.323	10.323	0.000	7873811	0.10000	0.1023		
18 Endrin					CAS #: 72-20-8		
10.824	10.824	0.000	7158342	0.10000	0.1024		
21 4,4'-DDD					CAS #: 72-54-8		
11.141	11.141	0.000	3050082	0.10000	0.1058		
22 Endosulfan II					CAS #: 33213-65-9		
11.185	11.185	0.000	3217600	0.10000	0.09980		
24 4,4'-DDT					CAS #: 50-29-3		
11.624	11.624	0.000	2704445	0.10000	0.1064		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.730	11.730	0.000	5274960	0.10000	0.09775		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.154	12.154	0.000	2976736	0.10000	0.1001		
27 Methoxychlor					CAS #: 72-43-5		
12.672	12.672	0.000	2611240	0.10000	0.09964		
29 Endrin ketone					CAS #: 53494-70-5		
12.892	12.892	0.000	6937871	0.10000	0.1004		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.645	14.645	0.000	5974908	0.10000	0.09387		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\008F0801.D

Date : 15-MAR-2010 11:05

Client ID:

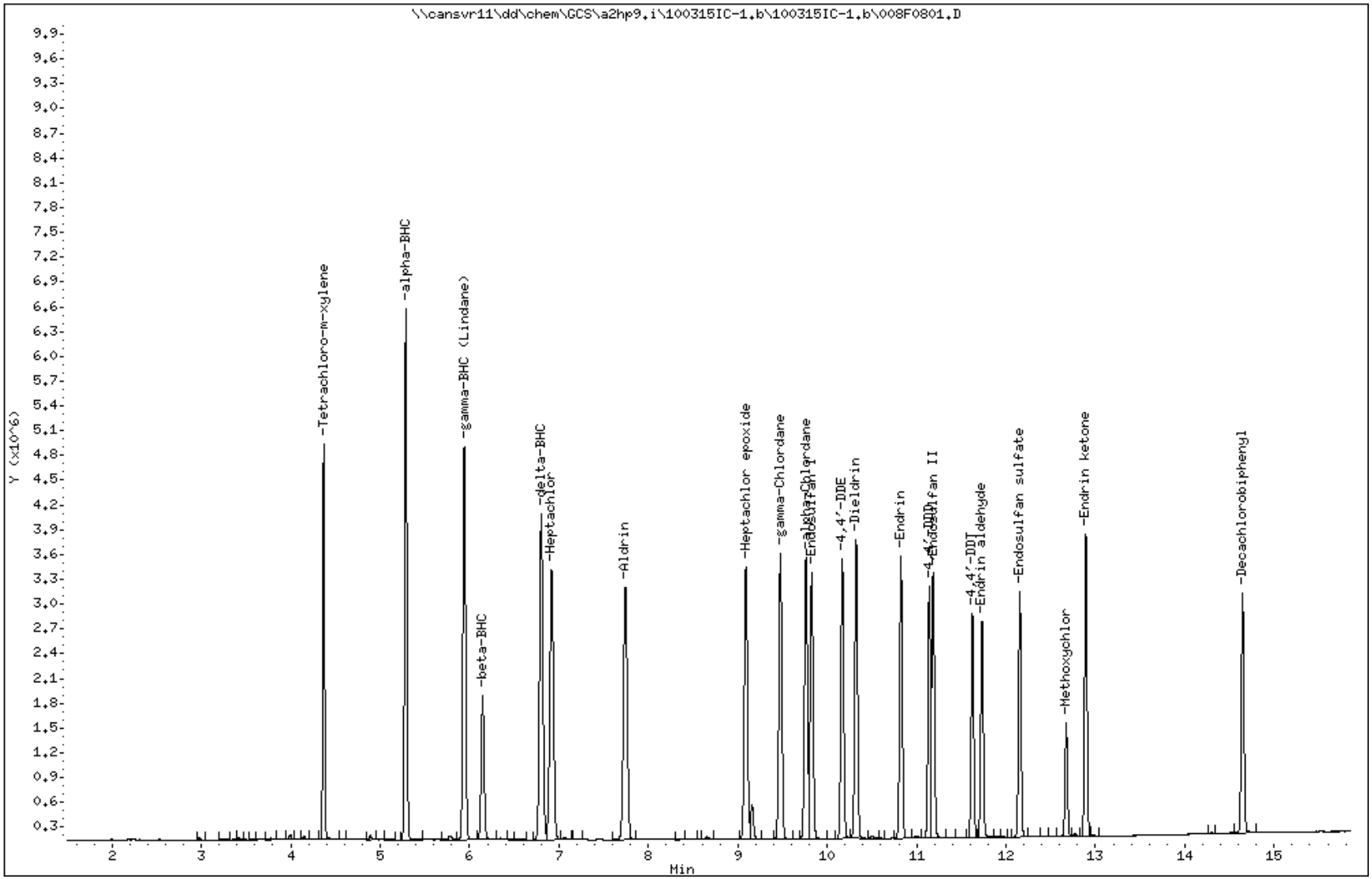
Instrument: a2hp9.i

Sample Info: AB5 G254,,1,5

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 11:05
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\008F0801.D
Lab Sample ID: AB5 G254
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.368	6422794	0.097	0.097
4) alpha-BHC	5.287	11218121	0.104	0.104
5) gamma-BHC (Lindane)	5.940	10074719	0.102	0.102
6) beta-BHC	6.146	4023559	0.090	0.090
7) delta-BHC	6.801	10307341	0.105	0.105
8) Heptachlor	6.918	9439038	0.100	0.100
10) Aldrin	7.743	9182310	0.101	0.101
12) Heptachlor epoxide	9.090	8068162	0.099	0.099
13) gamma-Chlordane	9.476	8136289	0.100	0.100
14) alpha-Chlordane	9.763	7835757	0.099	0.099
15) Endosulfan I	9.827	7383216	0.099	0.099
16) 4,4'-DDE	10.168	7419689	0.104	0.104
17) Dieldrin	10.323	7873811	0.102	0.102
18) Endrin	10.824	7158342	0.102	0.102
21) 4,4'-DDD	11.142	6080290	0.106	0.106
22) Endosulfan II	11.185	6786904	0.100	0.100
24) 4,4'-DDT	11.624	5288913	0.106	0.106
25) Endrin aldehyde	11.731	5274960	0.098	0.098
26) Endosulfan sulfate	12.154	5857202	0.100	0.100
27) Methoxychlor	12.673	2611240	0.100	0.100
29) Endrin ketone	12.893	6937871	0.100	0.100
30) Decachlorobiphenyl	14.646	5974908	0.094	0.094

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D
Lab Smp Id: AB6 G255
Inj Date : 15-MAR-2010 11:29
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB6 G255,,1,6
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 11:42 Quant Type: ESTD
Cal Date : 15-MAR-2010 11:29 Cal File: 009F0901.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.367	4.367	0.000	9806599	0.20000	0.2005		
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.286	0.000	23583059	0.20000	0.2190		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.939	5.939	0.000	21241571	0.20000	0.2160		
6 beta-BHC						CAS #: 319-85-7	
6.145	6.145	0.000	8319010	0.20000	0.1857		
7 delta-BHC						CAS #: 319-86-8	
6.800	6.800	0.000	21934844	0.20000	0.2237		
8 Heptachlor						CAS #: 76-44-8	
6.917	6.917	0.000	19840292	0.20000	0.2090		
10 Aldrin						CAS #: 309-00-2	
7.741	7.741	0.000	6429570	0.20000	0.2142		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.090	9.090	0.000	16793431	0.20000	0.2071		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.476	9.476	0.000	17260480	0.20000	0.2127		
14 alpha-Chlordane						CAS #: 5103-71-9	
9.762	9.762	0.000	16516913	0.20000	0.2085		

```
   15 Endosulfan I                                CAS #: 959-98-8
9.826    9.826    0.000        15374109 0.20000   0.2068
--------------------------------------------------------------------------------
```

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
	16 4,4'-DDE				CAS #: 72-55-9		
10.169	10.169	0.000	7320037	0.20000	0.2217		
	17 Dieldrin				CAS #: 60-57-1		
10.325	10.325	0.000	16607229	0.20000	0.2162		
	18 Endrin				CAS #: 72-20-8		
10.826	10.826	0.000	15162997	0.20000	0.2158		
	21 4,4'-DDD				CAS #: 72-54-8		
11.141	11.141	0.000	6501537	0.20000	0.2206		
	22 Endosulfan II				CAS #: 33213-65-9		
11.186	11.186	0.000	6715071	0.20000	0.2079		
	24 4,4'-DDT				CAS #: 50-29-3		
11.626	11.626	0.000	6108641	0.20000	0.2401		
	25 Endrin aldehyde				CAS #: 7421-93-4		
11.732	11.732	0.000	10874444	0.20000	0.2004		
	26 Endosulfan sulfate				CAS #: 1031-07-8		
12.156	12.156	0.000	6370896	0.20000	0.2125		
	27 Methoxychlor				CAS #: 72-43-5		
12.674	12.674	0.000	5590910	0.20000	0.2116		
	29 Endrin ketone				CAS #: 53494-70-5		
12.893	12.893	0.000	14586901	0.20000	0.2095		
$	30 Decachlorobiphenyl				CAS #: 2051-24-3		
14.646	14.646	0.000	12014880	0.20000	0.1874		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D

Date : 15-MAR-2010 11:29

Client ID:

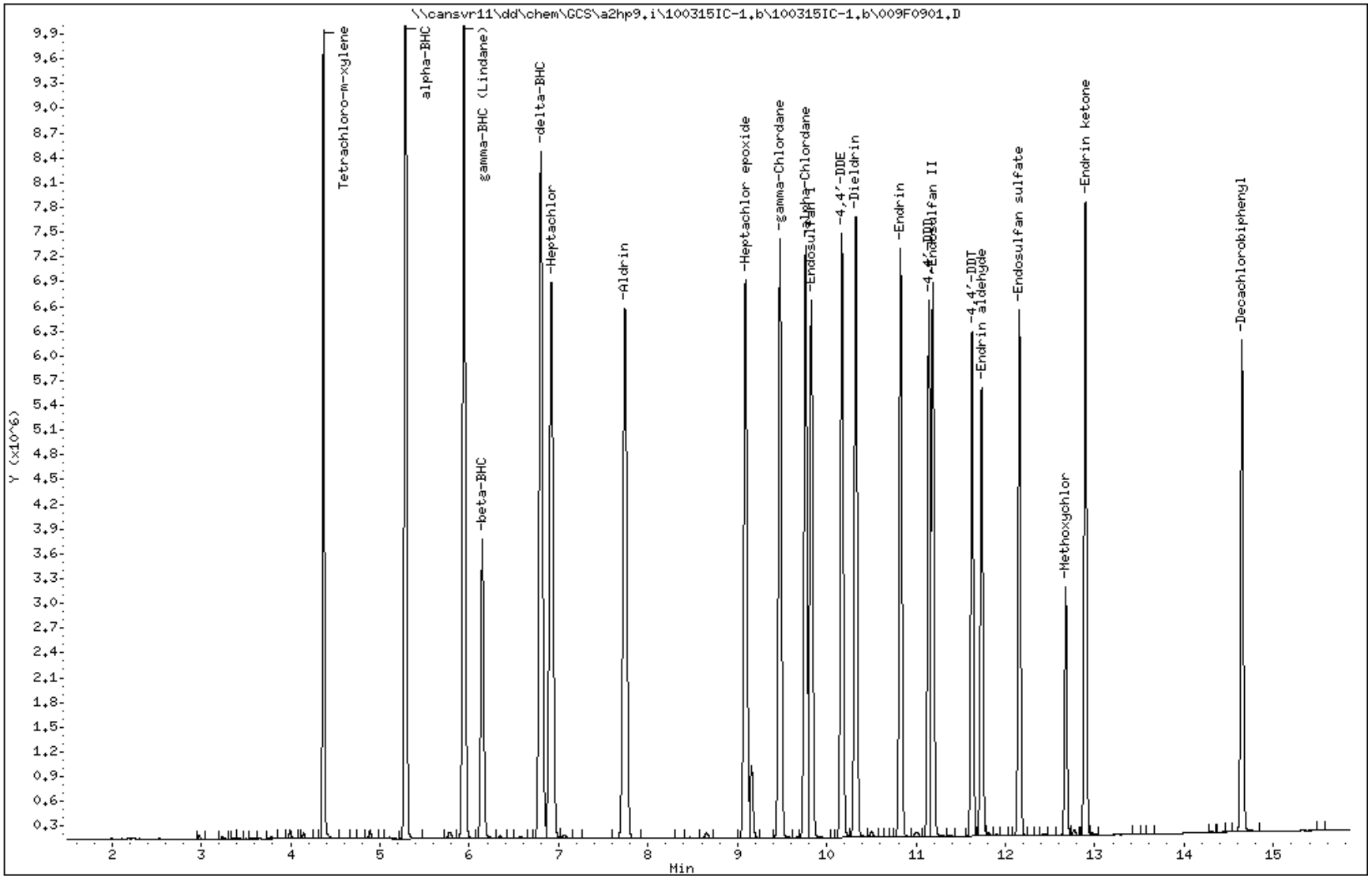
Instrument: a2hp9.i

Sample Info: AB6 G255,,1,6

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 11:29
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\009F0901.D
Lab Sample ID: AB6 G255
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.368	13201633	0.201	0.201
4) alpha-BHC	5.286	23583059	0.219	0.219
5) gamma-BHC (Lindane)	5.939	21241571	0.216	0.216
6) beta-BHC	6.145	8319010	0.186	0.186
7) delta-BHC	6.800	21934844	0.224	0.224
8) Heptachlor	6.918	19840292	0.209	0.209
10) Aldrin	7.742	19468449	0.214	0.214
12) Heptachlor epoxide	9.090	16793431	0.207	0.207
13) gamma-Chlordane	9.476	17260480	0.213	0.213
14) alpha-Chlordane	9.763	16516913	0.209	0.209
15) Endosulfan I	9.826	15374109	0.207	0.207
16) 4,4'-DDE	10.169	15938753	0.222	0.222
17) Dieldrin	10.325	16607229	0.216	0.216
18) Endrin	10.826	15162997	0.216	0.216
21) 4,4'-DDD	11.142	12945811	0.221	0.221
22) Endosulfan II	11.186	14150809	0.208	0.208
24) 4,4'-DDT	11.626	11903508	0.240	0.240
25) Endrin aldehyde	11.733	10874444	0.200	0.200
26) Endosulfan sulfate	12.156	12373142	0.212	0.212
27) Methoxychlor	12.674	5590910	0.212	0.212
29) Endrin ketone	12.894	14586901	0.210	0.210
30) Decachlorobiphenyl	14.646	12014880	0.187	0.187

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 12:40
Lab File ID: 012F1201.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 11:29
Lab Sample ID: ICV Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	48900426	++++	++++	0.000	++++	15.00000	Averaged	<-
4 alpha-BHC	107670684	110639120	110639120	0.010	-2.75696	15.00000	Averaged	
5 gamma-BHC (Lindane)	98347928	98982320	98982320	0.010	-0.64505	15.00000	Averaged	
6 beta-BHC	18332186	18778840	18778840	0.010	-2.43645	15.00000	Averaged	
7 delta-BHC	98057548	100640840	100640840	0.010	-2.63446	15.00000	Averaged	
8 Heptachlor	94940530	96552040	96552040	0.010	-1.69739	15.00000	Averaged	
10 Aldrin	30014083	30762880	30762880	0.010	-2.49482	15.00000	Averaged	
12 Heptachlor epoxide	81103319	83854480	83854480	0.010	-3.39217	15.00000	Averaged	
13 gamma-Chlordane	81149805	83225280	83225280	0.010	-2.55758	15.00000	Averaged	
14 alpha-Chlordane	79210359	81318080	81318080	0.010	-2.66092	15.00000	Averaged	
15 Endosulfan I	74347394	76775280	76775280	0.010	-3.26560	15.00000	Averaged	
16 4,4'-DDE	33013501	33054920	33054920	0.010	-0.12546	15.00000	Averaged	
17 Dieldrin	76819176	78940080	78940080	0.010	-2.76090	15.00000	Averaged	
18 Endrin	70247174	72919680	72919680	0.010	-3.80443	15.00000	Averaged	
21 4,4'-DDD	29466884	31885320	31885320	0.010	-8.20730	15.00000	Averaged	
22 Endosulfan II	32303936	33561320	33561320	0.010	-3.89236	15.00000	Averaged	
24 4,4'-DDT	25436776	22685120	22685120	0.010	10.81763	15.00000	Averaged	
25 Endrin aldehyde	54259043	55150280	55150280	0.010	-1.64256	15.00000	Averaged	
26 Endosulfan sulfate	29982247	30889680	30889680	0.010	-3.02657	15.00000	Averaged	
27 Methoxychlor	26422638	25883920	25883920	0.010	2.03885	15.00000	Averaged	
29 Endrin ketone	69615319	68133720	68133720	0.010	2.12827	15.00000	Averaged	
$ 30 Decachlorobiphenyl	64117263	++++	0.00000	0.010	++++	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 3.14929
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\012F1201.D
Lab Smp Id: ICV
Inj Date : 15-MAR-2010 12:40
Operator : 093905 Inst ID: a2hp9.i
Smp Info : ICV
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 05:00 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 11:29 Cal File: 009F0901.D
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-ab.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
Peaks not detected for Quant. or Qual. signal(s).							
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.284	0.002	2765978	0.02500	0.02569		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.940	5.939	0.001	2474558	0.02500	0.02516		
6 beta-BHC						CAS #: 319-85-7	
6.146	6.144	0.002	469471	0.02500	0.02561		
7 delta-BHC						CAS #: 319-86-8	
6.800	6.798	0.002	2516021	0.02500	0.02566		
8 Heptachlor						CAS #: 76-44-8	
6.918	6.916	0.002	2413801	0.02500	0.02542		
10 Aldrin						CAS #: 309-00-2	
7.743	7.740	0.003	769072	0.02500	0.02562		
12 Heptachlor epoxide						CAS #: 1024-57-3	
9.090	9.088	0.002	2096362	0.02500	0.02585		
13 gamma-Chlordane						CAS #: 5103-74-2	
9.476	9.474	0.002	2080632	0.02500	0.02564		

```
   14 alpha-Chlordane                              CAS #: 5103-71-9
9.762    9.760    0.002         2032952 0.02500  0.02566
-------------------------------------------------------------------------------
   15 Endosulfan I                                 CAS #: 959-98-8
9.826    9.824    0.002         1919382 0.02500  0.02582
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
	16 4,4'-DDE				CAS #: 72-55-9		
10.169	10.167	0.002	826373	0.02500	0.02503		
	17 Dieldrin				CAS #: 60-57-1		
10.324	10.322	0.002	1973502	0.02500	0.02569		
	18 Endrin				CAS #: 72-20-8		
10.825	10.823	0.002	1822992	0.02500	0.02595		
	21 4,4'-DDD				CAS #: 72-54-8		
11.143	11.139	0.004	797133	0.02500	0.02705		
	22 Endosulfan II				CAS #: 33213-65-9		
11.185	11.183	0.002	839033	0.02500	0.02597		
	24 4,4'-DDT				CAS #: 50-29-3		
11.625	11.623	0.002	567128	0.02500	0.02230		
	25 Endrin aldehyde				CAS #: 7421-93-4		
11.732	11.729	0.003	1378757	0.02500	0.02541		
	26 Endosulfan sulfate				CAS #: 1031-07-8		
12.155	12.153	0.002	772242	0.02500	0.02576		
	27 Methoxychlor				CAS #: 72-43-5		
12.674	12.672	0.002	647098	0.02500	0.02449		
	29 Endrin ketone				CAS #: 53494-70-5		
12.893	12.889	0.004	1703343	0.02500	0.02447		
$	30 Decachlorobiphenyl				CAS #: 2051-24-3		

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\012F1201.D

Date : 15-MAR-2010 12:40

Client ID:

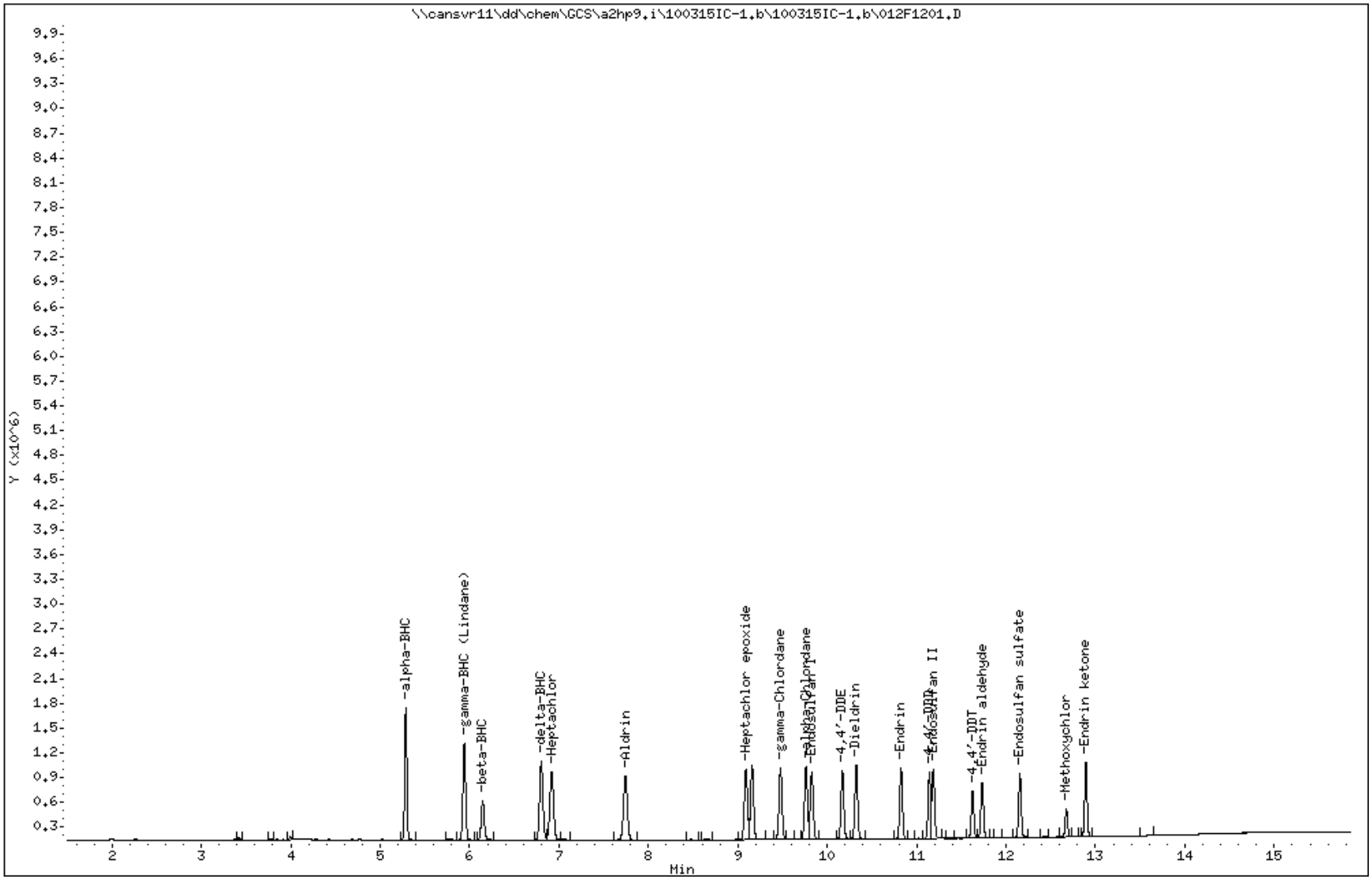
Instrument: a2hp9.i

Sample Info: ICV

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 12:40
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/012F1201.D
Lab Sample ID: ICV
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	NOT DETECTED	Expected RT = 4.368		
4) alpha-BHC	5.286	2765978	0.026	0.026
5) gamma-BHC (Lindane)	5.941	2474558	0.025	0.025
6) beta-BHC	6.146	1127718	0.026	0.026
7) delta-BHC	6.801	2516021	0.026	0.026
8) Heptachlor	6.918	2413801	0.025	0.025
10) Aldrin	7.744	2316237	0.026	0.026
12) Heptachlor epoxide	9.091	2096362	0.026	0.026
13) gamma-Chlordane	9.476	2080632	0.026	0.026
14) alpha-Chlordane	9.762	2032952	0.026	0.026
15) Endosulfan I	9.826	1919382	0.026	0.026
16) 4,4'-DDE	10.170	1825863	0.025	0.025
17) Dieldrin	10.325	1973502	0.026	0.026
18) Endrin	10.826	1822992	0.026	0.026
21) 4,4'-DDD	11.143	1609102	0.027	0.027
22) Endosulfan II	11.186	1757633	0.026	0.026
24) 4,4'-DDT	11.626	1128511	0.022	0.022
25) Endrin aldehyde	11.732	1378757	0.025	0.025
26) Endosulfan sulfate	12.156	1567570	0.026	0.026
27) Methoxychlor	12.675	647098	0.024	0.024
29) Endrin ketone	12.893	1703343	0.024	0.024
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.646		

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D
Lab Smp Id: TOX1 G268
Inj Date : 15-MAR-2010 13:03
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX1 G268,,1,1
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 05:00 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.332	11.332	0.000	247617	0.20000	0.1836	80.00- 120.00	100.00(M)
11.446	11.446	0.000	111472	0.20000	0.1752	114.04- 154.04	45.02
11.749	11.749	0.000	227074	0.20000	0.1804	115.64- 155.64	91.70
12.491	12.491	0.000	213403	0.20000	0.1842	52.78- 92.78	86.18
12.866	12.866	0.000	91676	0.20000	0.1628	69.36- 109.36	37.02
		Average of Peak Amounts =			0.17724		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D

Date : 15-MAR-2010 13:03

Client ID:

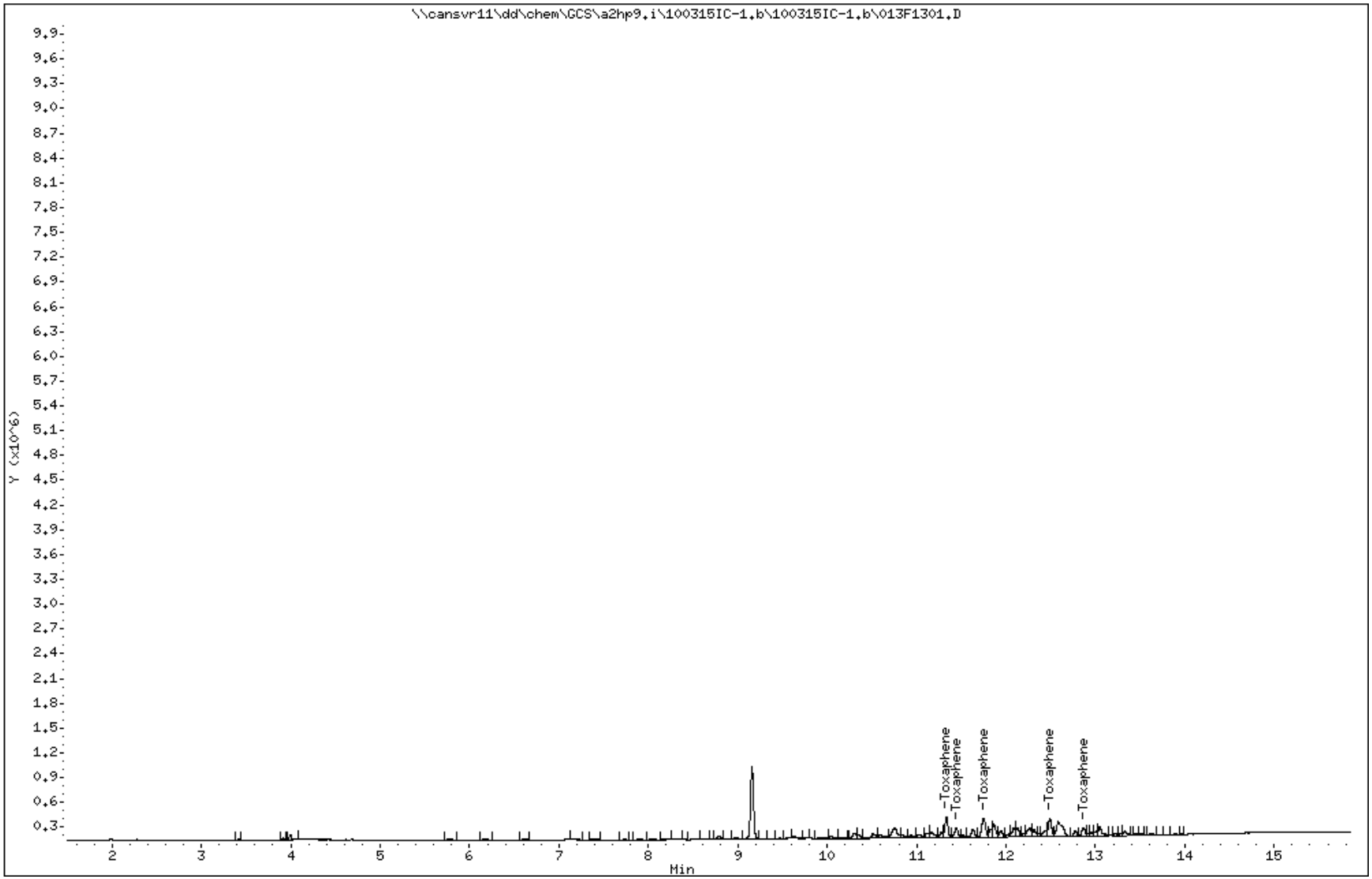
Instrument: a2hp9.i

Sample Info: TOX1 G268,,1,1

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

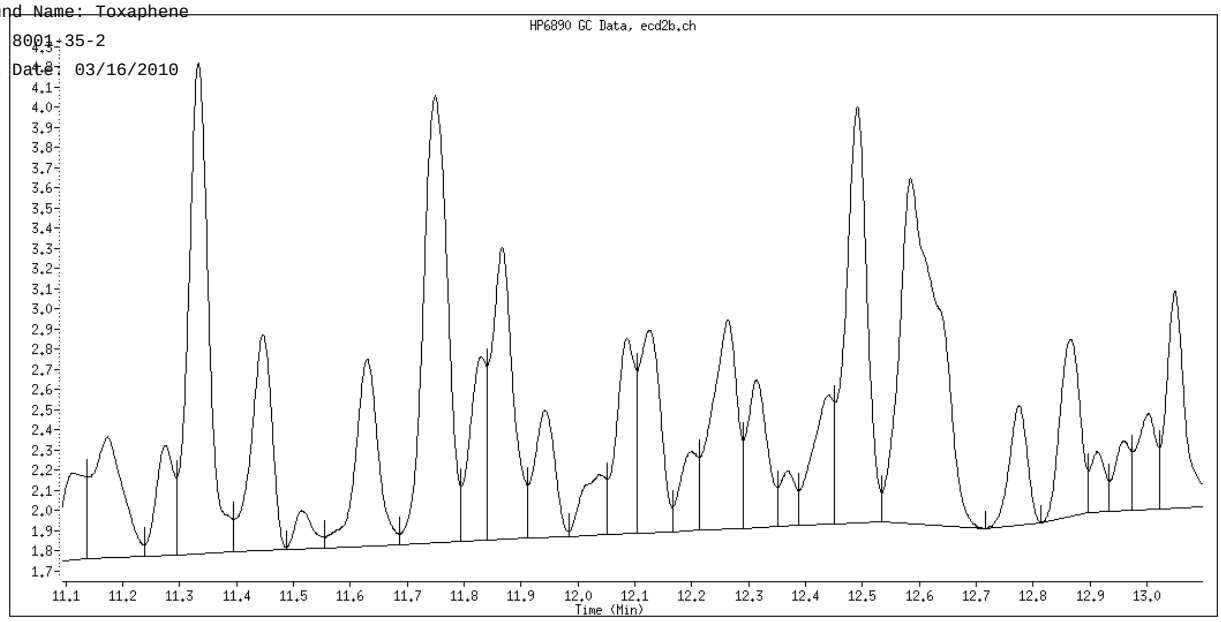


COMPOUNDS and EXP. RT REPORT

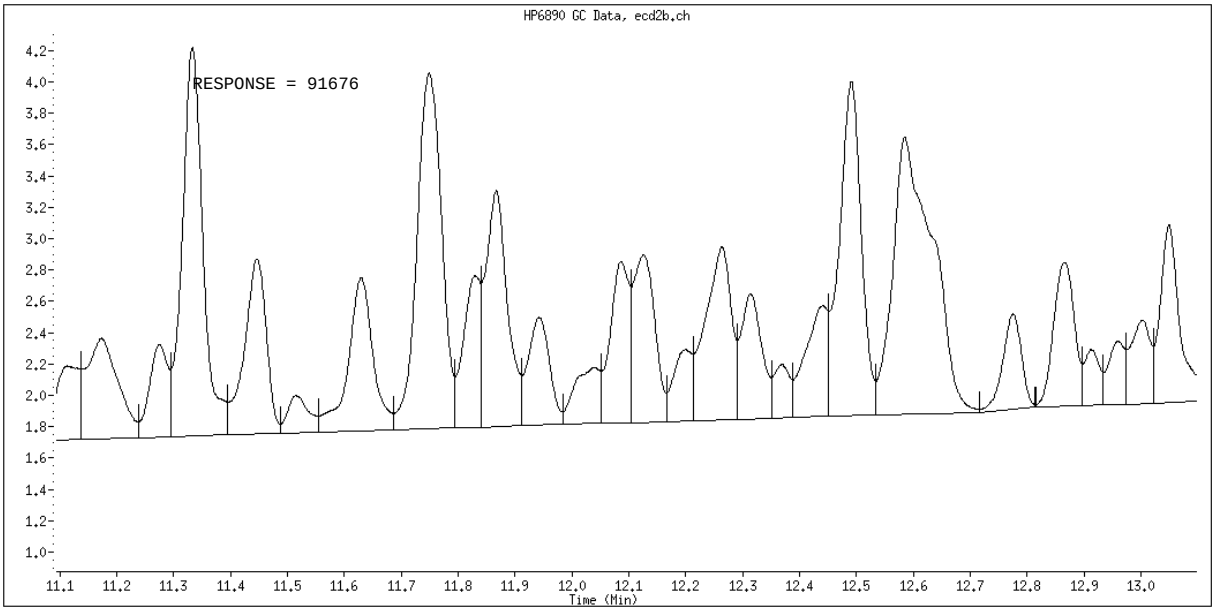
Operator: 093905 Date Acquired: 15-MAR-2010 13:03
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\013F1301.D
Lab Sample ID: TOX1 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.333	629886	0.184	0.184

Data File Name: 013F1301.D
Inj. Date and Time: 15-MAR-2010 13:03
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

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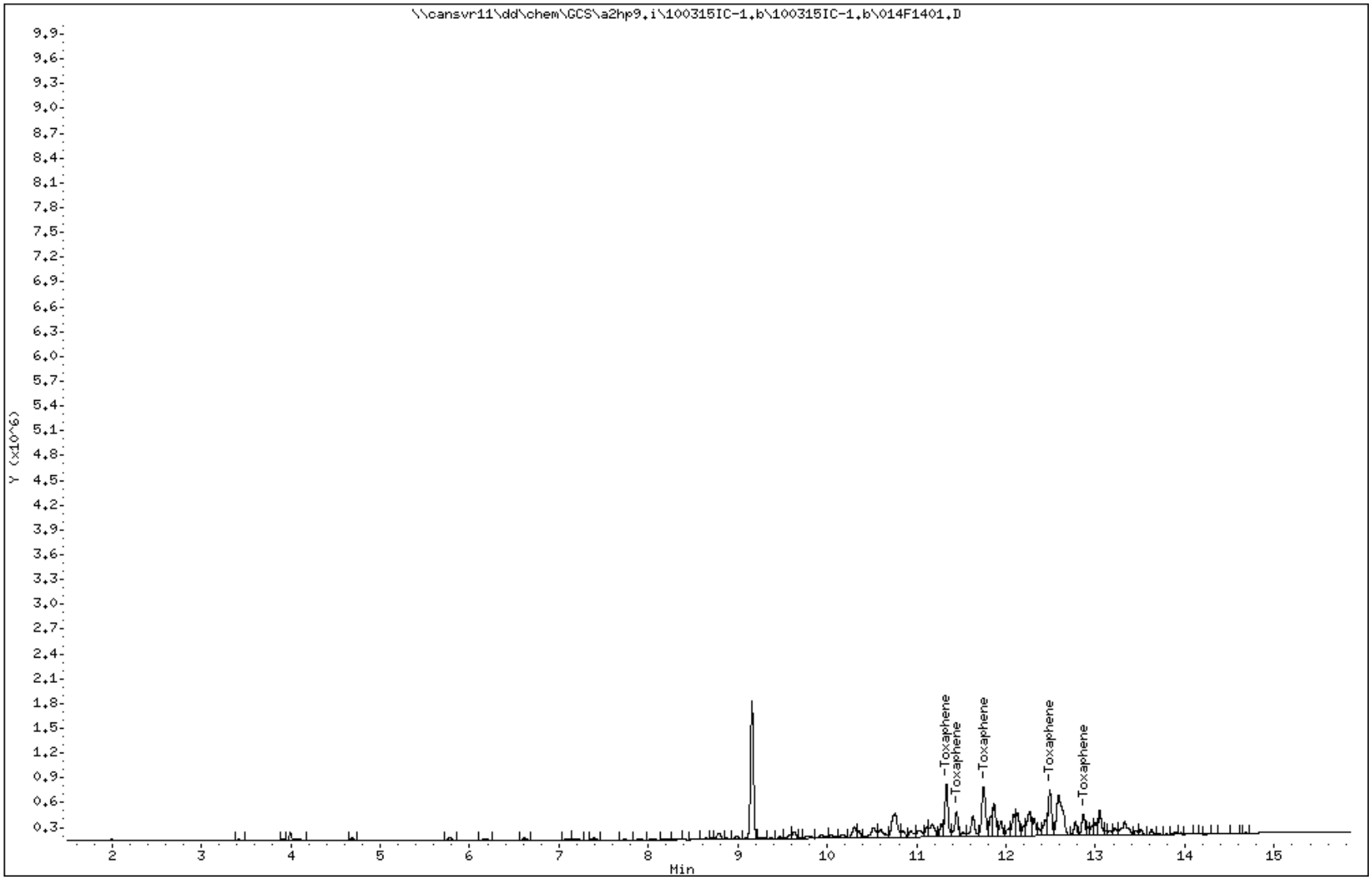
Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D
Lab Smp Id: TOX2 G268
Inj Date : 15-MAR-2010 13:28
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX2 G268,,1,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 13:41 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:28 Cal File: 014F1401.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.333	11.333	0.000	638094	0.50000	0.4917	80.00- 120.00	100.00
11.447	11.447	0.000	297007	0.50000	0.4800	114.04- 154.04	46.55
11.748	11.748	0.000	591627	0.50000	0.4840	115.64- 155.64	92.72
12.489	12.489	0.000	547841	0.50000	0.4858	52.78- 92.78	85.86
12.864	12.864	0.000	255111	0.50000	0.4544	69.36- 109.36	39.98
		Average of Peak Amounts =			0.47918		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D Page 1
Date : 15-MAR-2010 13:28
Client ID:
Sample Info: TOX2 G268,,1,2
Instrument: a2hp9.i
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 13:28
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\014F1401.D
Lab Sample ID: TOX2 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.333	1600116	0.492	0.492

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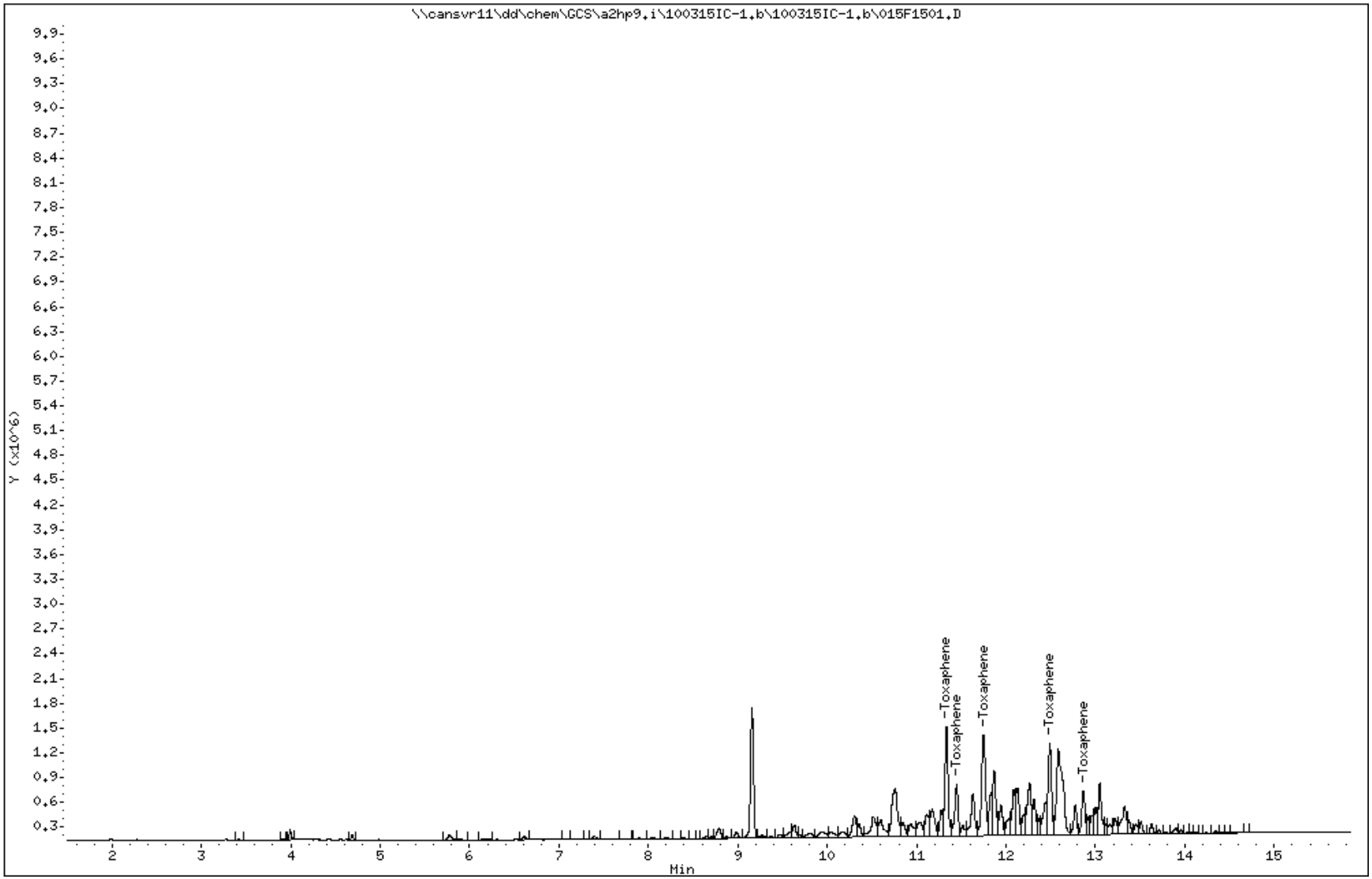
Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D
Lab Smp Id: TOX3 G268
Inj Date : 15-MAR-2010 13:52
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,1,3
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 14:05 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:52 Cal File: 015F1501.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.333	11.333	0.000	1317292	1.00000	0.9972	80.00- 120.00	100.00
11.446	11.446	0.000	619378	1.00000	0.9905	114.04- 154.04	47.02
11.747	11.747	0.000	1216514	1.00000	0.9827	115.64- 155.64	92.35
12.489	12.489	0.000	1104065	1.00000	0.9708	52.78- 92.78	83.81
12.864	12.864	0.000	523299	1.00000	0.9394	69.36- 109.36	39.73
		Average of Peak Amounts =			0.97612		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D Page 1
Date : 15-MAR-2010 13:52
Client ID: Instrument: a2hp9.i
Sample Info: TOX3 G268,,1,3
Operator: 093905
Column phase: clp pesticides II Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 13:52
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\015F1501.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.333	3290733	0.997	0.997

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Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\016F1601.D
Lab Smp Id: TOX4 G268
Inj Date : 15-MAR-2010 14:16
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX4 G268,,1,4
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 05:00 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:41 Cal File: 017F1701.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.333	11.330	0.003	2818445	2.00000	2.101	80.00- 120.00	100.00
11.447	11.444	0.003	1346254	2.00000	2.138	114.04- 154.04	47.77
11.746	11.745	0.001	2644556	2.00000	2.117	115.64- 155.64	93.83
12.489	12.488	0.001	2417451	2.00000	2.110	52.78- 92.78	85.77
12.864	12.862	0.002	1240859	2.00000	2.236	69.36- 109.36	44.03
		Average of Peak Amounts =			2.14040		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\016F1601.D

Date : 15-MAR-2010 14:16

Client ID:

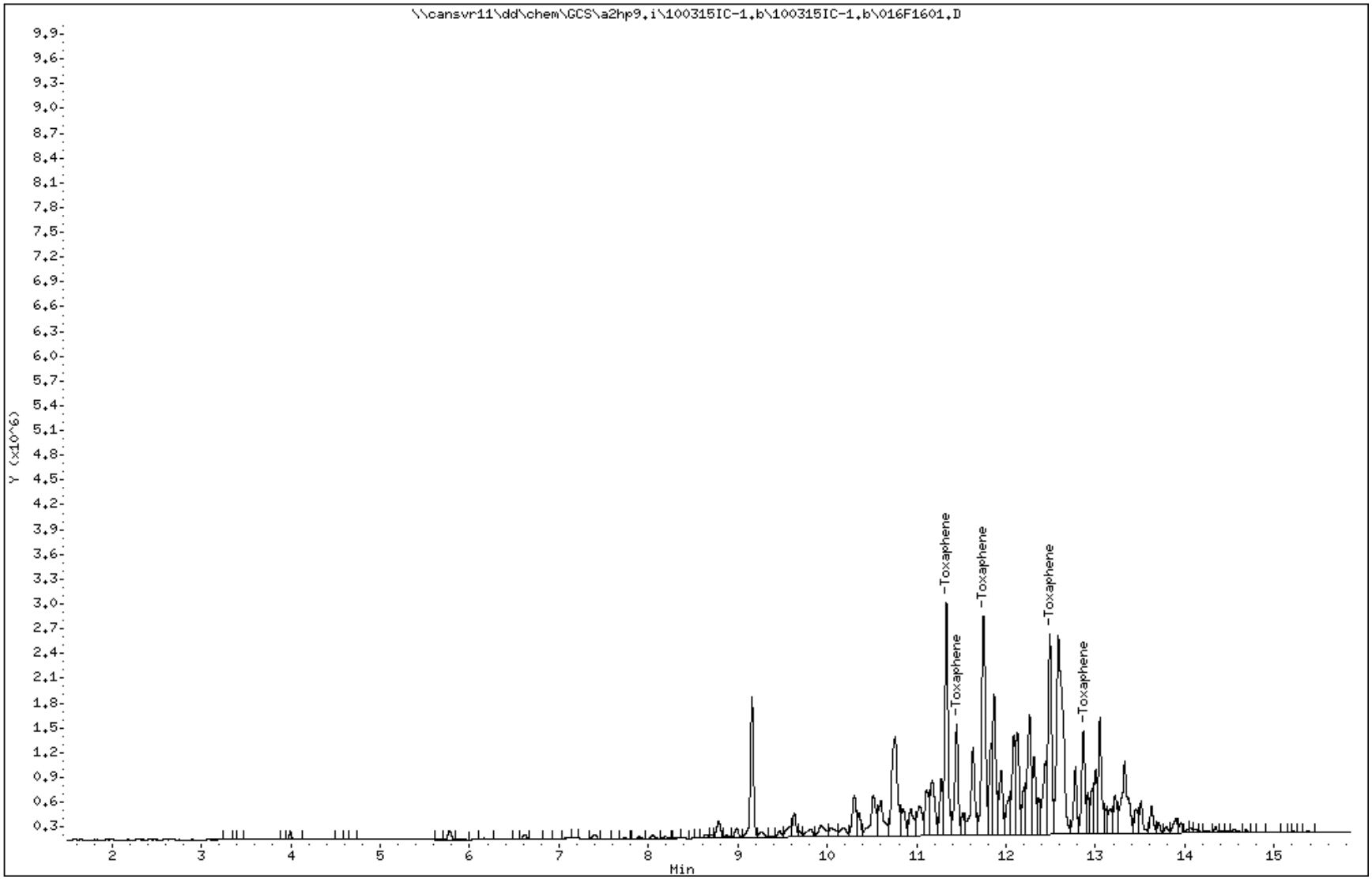
Instrument: a2hp9.i

Sample Info: TOX4 G268,,1,4

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 14:16
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/016F1601.D
Lab Sample ID: TOX4 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.334	6987933	2.101	2.101

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D
Lab Smp Id: TOX5 G268
Inj Date : 15-MAR-2010 14:41
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX5 G268,,1,5
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Mar-2010 14:54 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:41 Cal File: 017F1701.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR10

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.333	11.333	0.000	7520148	5.00000	5.607	80.00- 120.00	100.00
11.448	11.448	0.000	3687318	5.00000	5.856	114.04- 154.04	49.03
11.746	11.746	0.000	7174976	5.00000	5.745	115.64- 155.64	95.41
12.490	12.490	0.000	6586251	5.00000	5.749	52.78- 92.78	87.58
12.864	12.864	0.000	3518999	5.00000	6.340	69.36- 109.36	46.79
		Average of Peak Amounts =			5.85940		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D

Page 1

Date : 15-MAR-2010 14:41

Client ID:

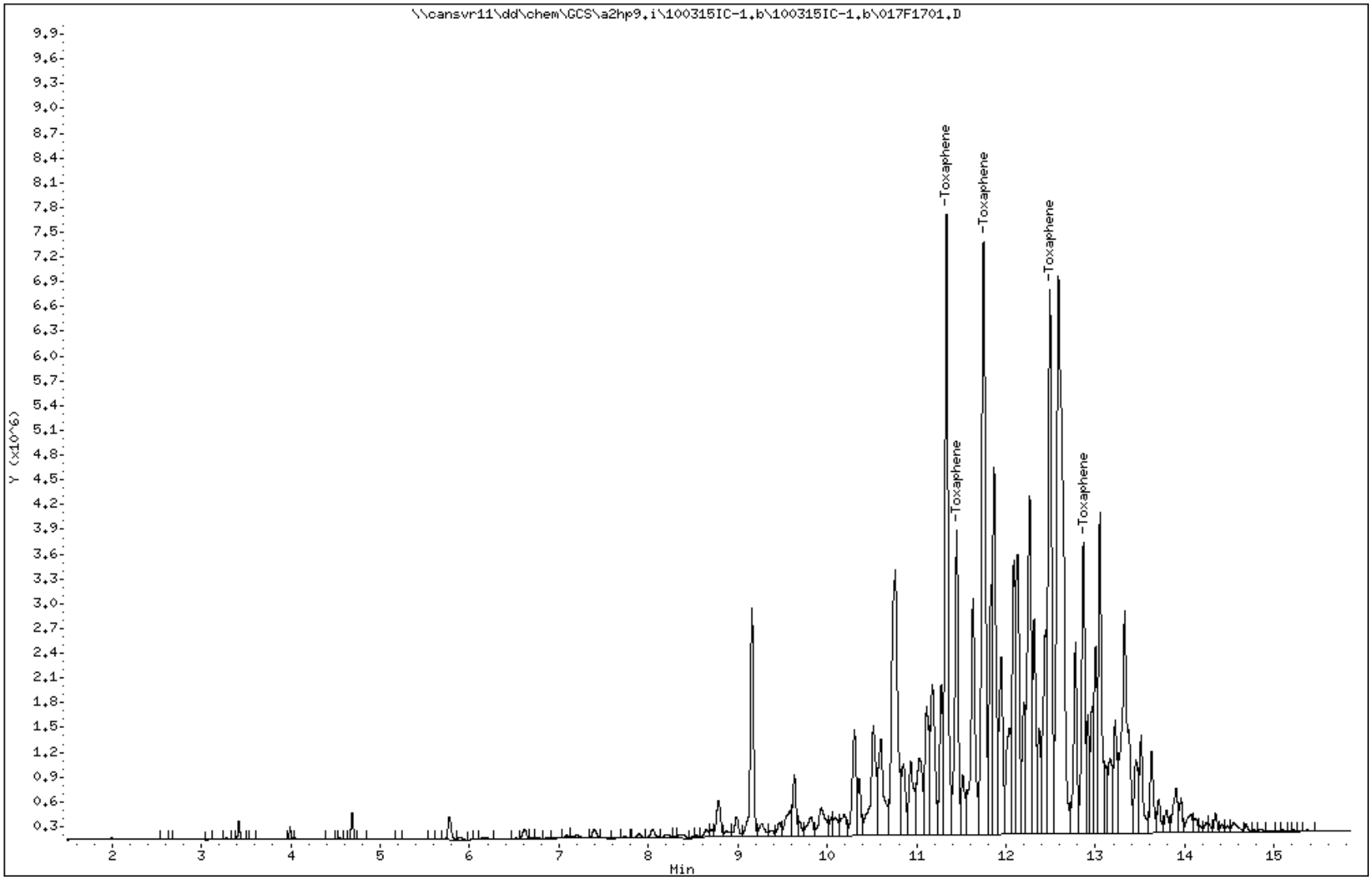
Instrument: a2hp9.i

Sample Info: TOX5 G268,,1,5

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 14:41
Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\017F1701.D
Lab Sample ID: TOX5 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.334	18663260	5.607	5.607

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\011F1101.D Page 1
Report Date: 15-Mar-2010 13:15

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RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004630	92.60	70-130
5 gamma-BHC (Lindane	0.005000	0.004684	93.68	70-130
6 beta-BHC	0.005000	0.005283	105.67	70-130
7 delta-BHC	0.005000	0.004531	90.63	70-130
8 Heptachlor	0.005000	0.004857	97.15	70-130
10 Aldrin	0.005000	0.004853	97.07	70-130
12 Heptachlor epoxide	0.005000	0.005026	100.51	70-130
13 gamma-Chlordane	0.005000	0.004844	96.87	70-130
14 alpha-Chlordane	0.005000	0.004916	98.31	70-130
15 Endosulfan I	0.005000	0.005030	100.61	70-130
16 4,4'-DDE	0.005000	0.004828	96.57	70-130
17 Dieldrin	0.005000	0.004812	96.24	70-130
18 Endrin	0.005000	0.004814	96.27	70-130
20 4,4'-DDD	0.005000	0.004749	94.98	70-130
22 Endosulfan II	0.005000	0.005054	101.09	70-130
23 4,4'-DDT	0.005000	0.004501	90.01	70-130
25 Endrin aldehyde	0.005000	0.005224	104.48	70-130
27 Methoxychlor	0.005000	0.005107	102.13	70-130
28 Endosulfan sulfate	0.005000	0.005146	102.93	70-130
29 Endrin ketone	0.005000	0.005026	100.53	70-130

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\011F1101.D
Lab Smp Id: MRL
Inj Date : 15-MAR-2010 12:16
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 15-Mar-2010 13:13 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 11:29 Cal File: 009F0901.D
Als bottle: 11 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
4 alpha-BHC					CAS #: 319-84-6		
4.496	4.497	-0.001	616374	0.00463	0.004630		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.919	4.919	0.000	773312	0.00468	0.004684		
6 beta-BHC					CAS #: 319-85-7		
5.067	5.067	0.000	213612	0.00528	0.005283		
7 delta-BHC					CAS #: 319-86-8		
5.314	5.315	-0.001	751096	0.00453	0.004531		
Sum of Peak Concentrations = 0.004531							
8 Heptachlor					CAS #: 76-44-8		
5.639	5.639	0.000	382422	0.00486	0.004857		
10 Aldrin					CAS #: 309-00-2		

```
6.166    6.166    0.000          761626 0.00485  0.004853
-------------------------------------------------------------------------------
   12 Heptachlor epoxide                          CAS #: 1024-57-3
7.602    7.603   -0.001          233595 0.00503  0.005026
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
7.903	7.903	0.000	241264	0.00484	0.004844		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.217	8.216	0.001	252232	0.00492	0.004916		
15 Endosulfan I					CAS #: 959-98-8		
8.471	8.472	-0.001	244099	0.00503	0.005030		
16 4,4'-DDE					CAS #: 72-55-9		
8.542	8.542	0.000	675125	0.00483	0.004828		
17 Dieldrin					CAS #: 60-57-1		
8.982	8.984	-0.002	690223	0.00481	0.004812		
18 Endrin					CAS #: 72-20-8		
9.408	9.408	0.000	262282	0.00481	0.004814		
20 4,4'-DDD					CAS #: 72-54-8		
9.722	9.723	-0.001	556322	0.00475	0.004749		
22 Endosulfan II					CAS #: 33213-65-9		
9.832	9.831	0.001	265190	0.00505	0.005054		
23 4,4'-DDT					CAS #: 50-29-3		
10.212	10.212	0.000	459696	0.00450	0.004501		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.586	10.584	0.002	233879	0.00522	0.005224		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	272950	0.00511	0.005107		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.287	-0.002	569820	0.00515	0.005146		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.679	0.001	318032	0.00503	0.005026		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\011F1101.D

Date : 15-MAR-2010 12:16

Client ID:

Instrument: a2hp9.i

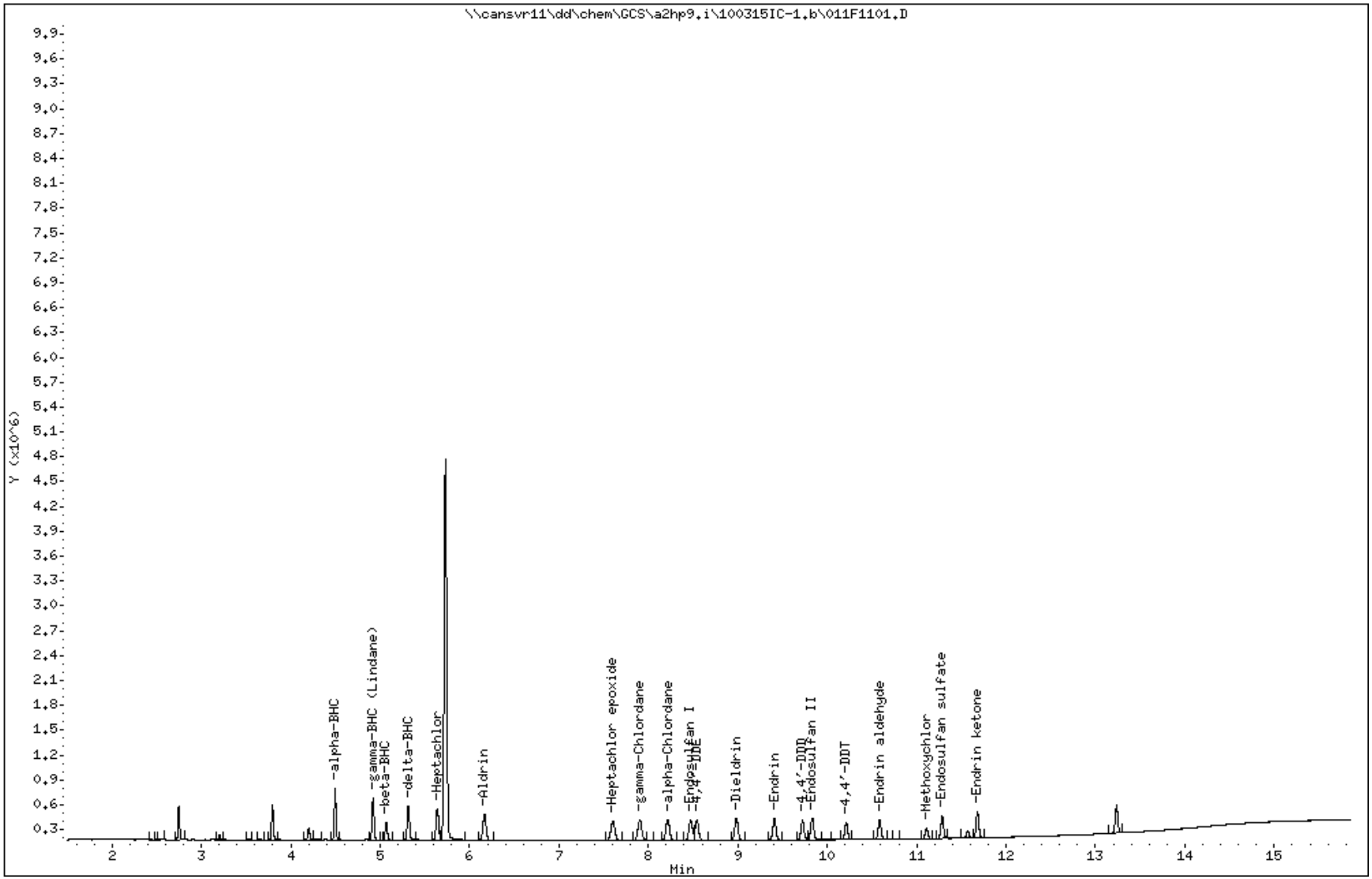
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 18:54
Lab File ID: 027F2701.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
24 Toxaphene(1)	1902709	1966251	1966251	0.010	-3.33957	15.00000	Averaged
(2)	1827689	1824601	1824601	0.010	0.16896	15.00000	Averaged
(3)	1623385	1631275	1631275	0.010	-0.48603	15.00000	Averaged
(4)	2314679	2304281	2304281	0.010	0.44920	15.00000	Averaged
(5)	2102694	2074180	2074180	0.010	1.35607	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.15997
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\027F2701.D
Lab Smp Id: TOX3 G268
Inj Date : 15-MAR-2010 18:54
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:22 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.953	9.953	0.000	1966251	1.00000	1.033	80.00- 120.00	100.00
10.384	10.384	0.000	1824601	1.00000	0.9983	114.04- 154.04	92.80
10.533	10.533	0.000	1631275	1.00000	1.005	115.64- 155.64	82.96
11.094	11.094	0.000	2304281	1.00000	0.9955	52.78- 92.78	117.19
11.198	11.198	0.000	2074180	1.00000	0.9864	69.36- 109.36	105.49
		Average of Peak Amounts =			1.00364		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\027F2701.D

Date : 15-MAR-2010 18:54

Client ID:

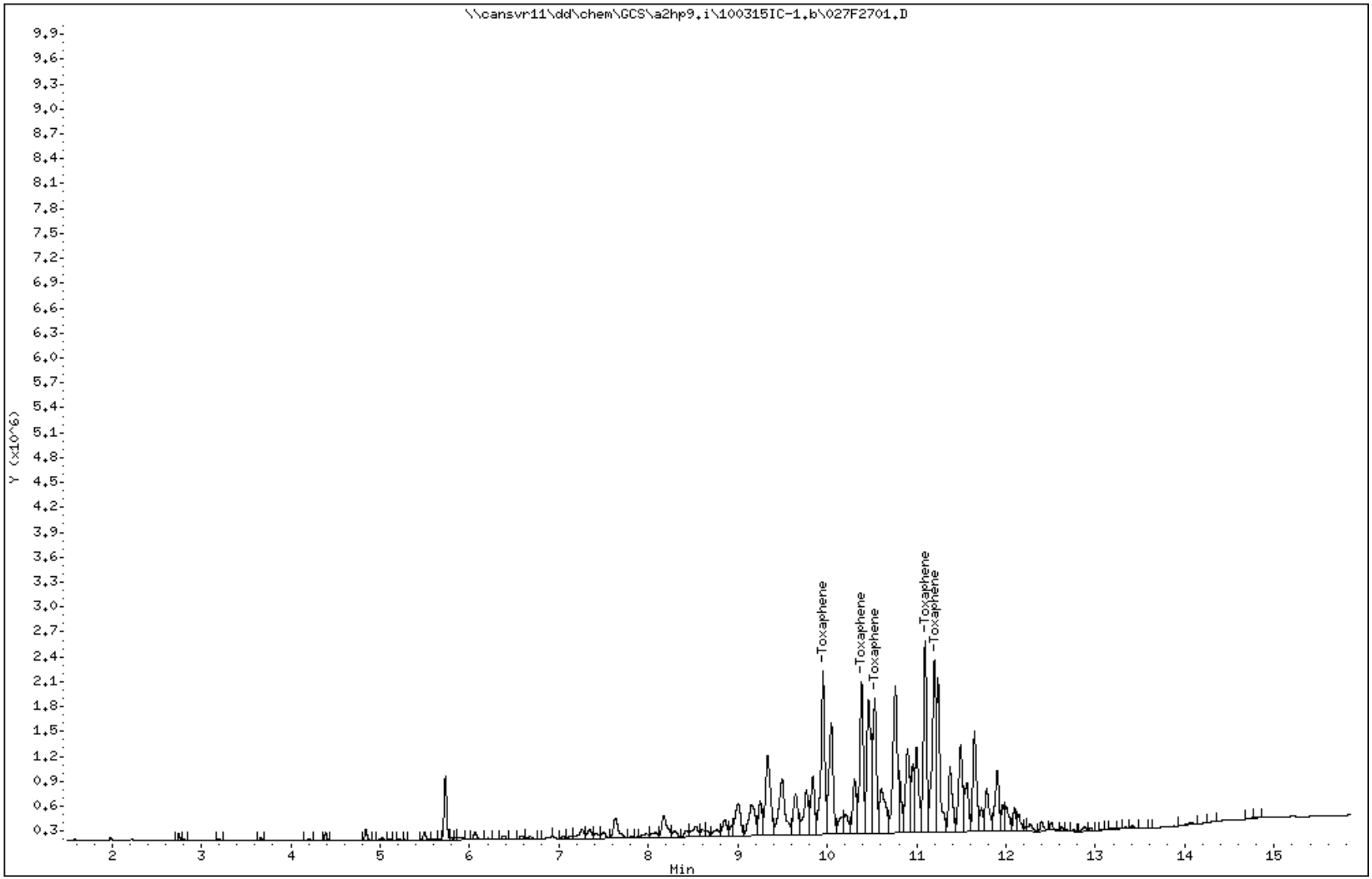
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 18:54
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/027F2701.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.953	5749903	1.033	1.033

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b/028F2801.D
Report Date: 03/16/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 19:18
Lab File ID: 028F2801.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\P

4,4'-DDT Degradation

RT	Area	Compound
10.212	10866900	4,4'-DDT
8.5407	46139	4,4'-DDE
9.7232	703582	4,4'-DDD

Percent Degradation of 4,4'-DDT: 6.45

Endrin Degradation

RT	Area	Compound
9.4107	6375116	Endrin
10.586	218394	Endrin aldehyde
11.681	417491	Endrin ketone

Percent Degradation of Endrin: 9.07

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\028F2801.D
Lab Smp Id: PEM E006
Inj Date : 15-MAR-2010 19:18
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:22 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 28 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.497	4.497	0.000	1291076	0.00970	0.009698		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.920	4.919	0.001	1601379	0.00970	0.009700		
6 beta-BHC						CAS #: 319-85-7	
5.068	5.067	0.001	389889	0.00964	0.009643		
16 4,4'-DDE						CAS #: 72-55-9	
8.540	8.542	-0.002	46139	0.00033	0.0003300		
18 Endrin						CAS #: 72-20-8	
9.410	9.408	0.002	2568086	0.04713	0.04713		
20 4,4'-DDD						CAS #: 72-54-8	
9.723	9.723	0.000	703582	0.00601	0.006006		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.211	10.212	-0.001	10866900	0.10639	0.1064		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.585	10.584	0.001	90862	0.00203	0.002029		

```
   27 Methoxychlor                                CAS #: 72-43-5
11.109  11.109    0.000        13042308 0.24401   0.2440
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.280  11.287   -0.007           42781  4e-004  0.0003864
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.679	0.001	199111	0.00315	0.003147		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\028F2801.D

Date : 15-MAR-2010 19:18

Client ID:

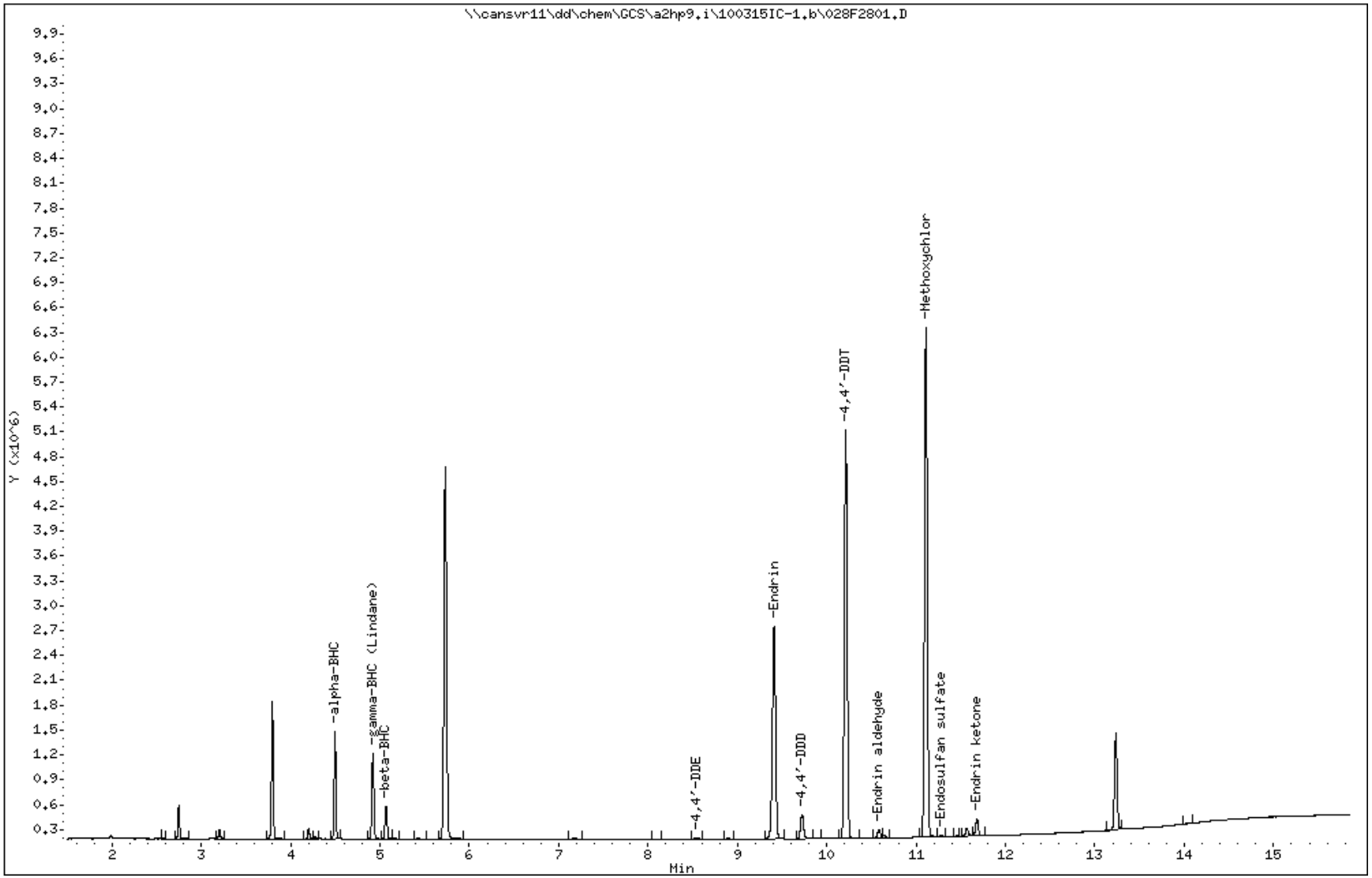
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 19:18
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/028F2801.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.497	1742926	0.010	0.010
5) gamma-BHC (Lindane)	4.921	1601379	0.010	0.010
6) beta-BHC	5.068	677067	0.010	0.010
16) 4,4'-DDE	8.541	46139	0.000	0.000
18) Endrin	9.411	6375116	0.047	0.047
20) 4,4'-DDD	9.723	703582	0.006	0.006
22) Endosulfan II	NOT DETECTED Expected RT = 9.831			
23) 4,4'-DDT	10.212	10866900	0.106	0.106
25) Endrin aldehyde	10.586	218394	0.002	0.002
27) Methoxychlor	11.109	13042308	0.244	0.244
28) Endosulfan sulfate	11.281	42781	0.000	0.000
29) Endrin ketone	11.681	417491	0.003	0.003

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 19:42
Lab File ID: 029F2901.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	84173465	84325600	84325600	0.000	-0.18074	15.00000	Averaged
4 alpha-BHC	133126098	135923720	135923720	0.010	-2.10148	15.00000	Averaged
5 gamma-BHC (Lindane)	165088708	164771040	164771040	0.010	0.19242	15.00000	Averaged
6 beta-BHC	40431668	39989680	39989680	0.010	1.09317	15.00000	Averaged
7 delta-BHC	165754598	167732920	167732920	0.010	-1.19352	15.00000	Averaged
8 Heptachlor	78731673	80970120	80970120	0.010	-2.84313	15.00000	Averaged
10 Aldrin	156923965	154150640	154150640	0.010	1.76730	15.00000	Averaged
12 Heptachlor epoxide	46480680	46774920	46774920	0.010	-0.63304	15.00000	Averaged
13 gamma-Chlordane	49811115	49932080	49932080	0.010	-0.24285	15.00000	Averaged
14 alpha-Chlordane	51312584	51402360	51402360	0.010	-0.17496	15.00000	Averaged
15 Endosulfan I	48523034	48426240	48426240	0.010	0.19948	15.00000	Averaged
16 4,4'-DDE	139823780	138908400	138908400	0.010	0.65467	15.00000	Averaged
17 Dieldrin	143431818	142884640	142884640	0.010	0.38149	15.00000	Averaged
18 Endrin	54486263	55040360	55040360	0.010	-1.01695	15.00000	Averaged
20 4,4'-DDD	117147756	117649560	117649560	0.010	-0.42835	15.00000	Averaged
22 Endosulfan II	52467042	52967200	52967200	0.010	-0.95328	15.00000	Averaged
23 4,4'-DDT	102138274	100271440	100271440	0.010	1.82775	15.00000	Averaged
25 Endrin aldehyde	44770833	45270360	45270360	0.010	-1.11574	15.00000	Averaged
27 Methoxychlor	53449599	54116760	54116760	0.010	-1.24821	15.00000	Averaged
28 Endosulfan sulfate	110718182	110913000	110913000	0.010	-0.17596	15.00000	Averaged
29 Endrin ketone	63269941	64233920	64233920	0.010	-1.52360	15.00000	Averaged
$ 30 Decachlorobiphenyl	59416517	59428520	59428520	0.010	-0.02020	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 0.90765
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\029F2901.D
Lab Smp Id: AB3 G252
Inj Date : 15-MAR-2010 19:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:22 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.794	3.794	0.000	2108140	0.02500	0.02504		
4 alpha-BHC					CAS #: 319-84-6		
4.496	4.496	0.000	3398093	0.02500	0.02552		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.919	4.919	0.000	4119276	0.02500	0.02495		
6 beta-BHC					CAS #: 319-85-7		
5.066	5.066	0.000	999742	0.02500	0.02473		
7 delta-BHC					CAS #: 319-86-8		
5.314	5.314	0.000	4193323	0.02500	0.02530		
		Sum of Peak Amounts =			0.02530		
8 Heptachlor					CAS #: 76-44-8		
5.639	5.639	0.000	2024253	0.02500	0.02571		
10 Aldrin					CAS #: 309-00-2		
6.165	6.165	0.000	3853766	0.02500	0.02456		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.602	7.602	0.000	1169373	0.02500	0.02516		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.903	7.903	0.000	1248302	0.02500	0.02506		
14 alpha-Chlordane					CAS #: 5103-71-9		

8.214   8.214   0.000   1285059 0.02500 0.02504
---
   15 Endosulfan I   CAS #: 959-98-8
8.471   8.471   0.000   1210656 0.02500 0.02495

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.540	8.540	0.000	3472710	0.02500	0.02484		
17 Dieldrin					CAS #: 60-57-1		
8.984	8.984	0.000	3572116	0.02500	0.02490		
18 Endrin					CAS #: 72-20-8		
9.408	9.408	0.000	1376009	0.02500	0.02525		
20 4,4'-DDD					CAS #: 72-54-8		
9.721	9.721	0.000	2941239	0.02500	0.02511		
22 Endosulfan II					CAS #: 33213-65-9		
9.829	9.829	0.000	1324180	0.02500	0.02524		
23 4,4'-DDT					CAS #: 50-29-3		
10.211	10.211	0.000	2506786	0.02500	0.02454		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.583	10.583	0.000	1131759	0.02500	0.02528		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	1352919	0.02500	0.02531		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	2772825	0.02500	0.02504		
29 Endrin ketone					CAS #: 53494-70-5		
11.679	11.679	0.000	1605848	0.02500	0.02538		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.233	13.233	0.000	1485713	0.02500	0.02500		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\029F2901.D

Page 1

Date : 15-MAR-2010 19:42

Client ID:

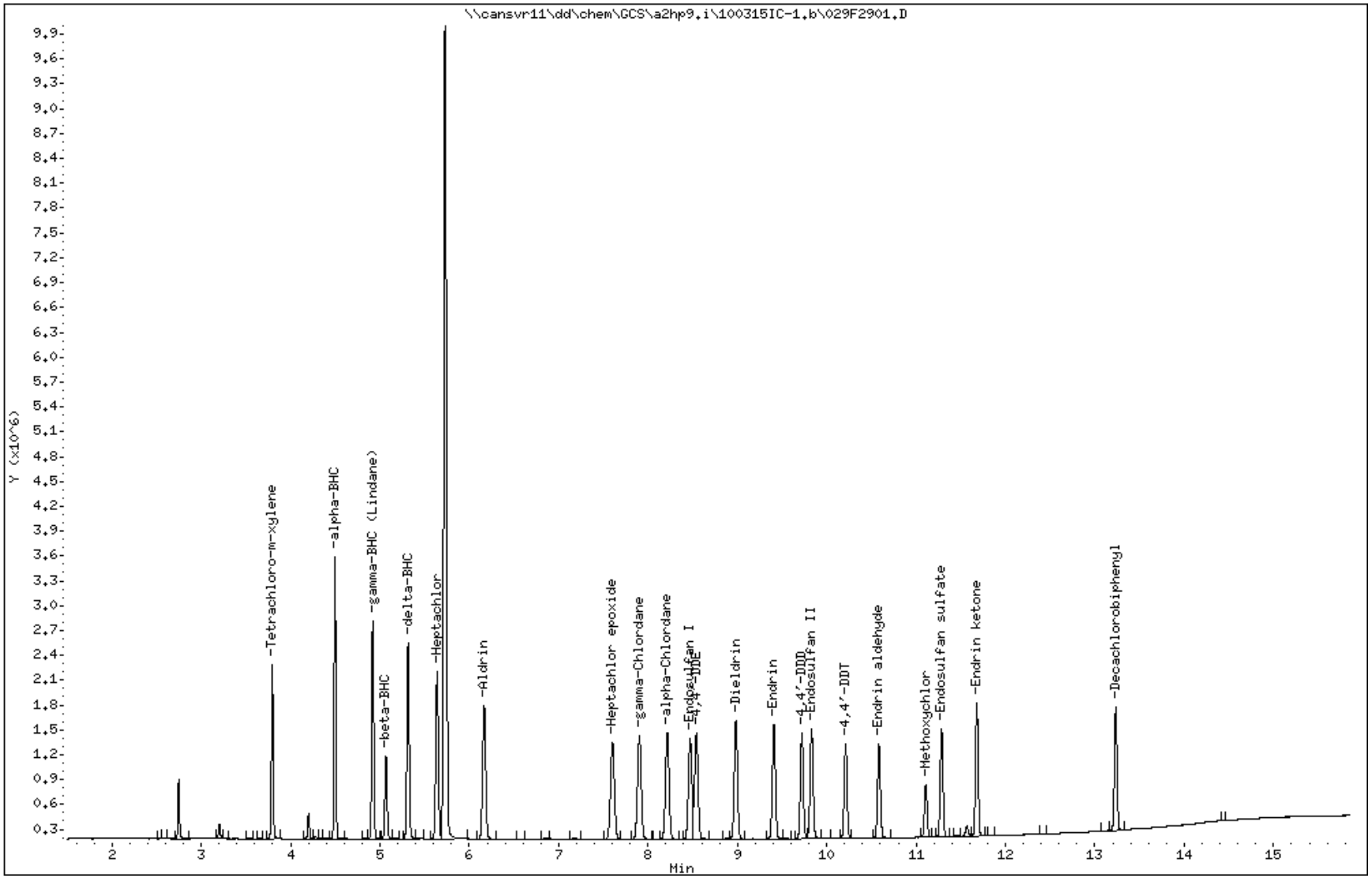
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 19:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/029F2901.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.795	2788020	0.025	0.025
4) alpha-BHC	4.497	4644080	0.026	0.026
5) gamma-BHC (Lindane)	4.920	4119276	0.025	0.025
6) beta-BHC	5.067	1711887	0.025	0.025
7) delta-BHC	5.315	4193323	0.025	0.025
8) Heptachlor	5.639	4119348	0.026	0.026
10) Aldrin	6.166	3853766	0.025	0.025
12) Heptachlor epoxide	7.602	3567164	0.025	0.025
13) gamma-Chlordane	7.903	3636851	0.025	0.025
14) alpha-Chlordane	8.215	3604044	0.025	0.025
15) Endosulfan I	8.472	3358165	0.025	0.025
16) 4,4'-DDE	8.541	3472710	0.025	0.025
17) Dieldrin	8.984	3572116	0.025	0.025
18) Endrin	9.408	3359019	0.025	0.025
20) 4,4'-DDD	9.722	2941239	0.025	0.025
22) Endosulfan II	9.830	3165158	0.025	0.025
23) 4,4'-DDT	10.212	2506786	0.025	0.025
25) Endrin aldehyde	10.583	2529576	0.025	0.025
27) Methoxychlor	11.109	1352919	0.025	0.025
28) Endosulfan sulfate	11.286	2772825	0.025	0.025
29) Endrin ketone	11.680	3294481	0.025	0.025
30) Decachlorobiphenyl	13.233	3011502	0.025	0.025

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\030F3001.D Page 1
Report Date: 16-Mar-2010 07:22

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RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004608	92.15	70-130
5 gamma-BHC (Lindane	0.005000	0.004704	94.09	70-130
6 beta-BHC	0.005000	0.005313	106.26	70-130
7 delta-BHC	0.005000	0.004619	92.38	70-130
8 Heptachlor	0.005000	0.004911	98.21	70-130
10 Aldrin	0.005000	0.004811	96.22	70-130
12 Heptachlor epoxide	0.005000	0.005074	101.48	70-130
13 gamma-Chlordane	0.005000	0.004846	96.92	70-130
14 alpha-Chlordane	0.005000	0.004962	99.25	70-130
15 Endosulfan I	0.005000	0.005029	100.59	70-130
16 4,4'-DDE	0.005000	0.004823	96.46	70-130
17 Dieldrin	0.005000	0.004799	95.98	70-130
18 Endrin	0.005000	0.004871	97.42	70-130
20 4,4'-DDD	0.005000	0.004791	95.81	70-130
22 Endosulfan II	0.005000	0.005038	100.77	70-130
23 4,4'-DDT	0.005000	0.004495	89.89	70-130
25 Endrin aldehyde	0.005000	0.005256	105.12	70-130
27 Methoxychlor	0.005000	0.005216	104.32	70-130
28 Endosulfan sulfate	0.005000	0.005211	104.22	70-130
29 Endrin ketone	0.005000	0.005098	101.95	70-130

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\030F3001.D
Lab Smp Id: MRL
Inj Date : 15-MAR-2010 20:05
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:22 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 30 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
4.495	4.496	-0.001	613407	0.00461	0.004608		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.919	4.919	0.000	776631	0.00470	0.004704		
6 beta-BHC					CAS #: 319-85-7		
5.066	5.066	0.000	214810	0.00531	0.005313		
7 delta-BHC					CAS #: 319-86-8		
5.314	5.314	0.000	765648	0.00462	0.004619		
Sum of Peak Concentrations = 0.004619							
8 Heptachlor					CAS #: 76-44-8		
5.638	5.639	-0.001	386624	0.00491	0.004911		
10 Aldrin					CAS #: 309-00-2		

```
6.165    6.165    0.000          754988 0.00481  0.004811
--------------------------------------------------------------------------------
   12 Heptachlor epoxide                          CAS #: 1024-57-3
7.599    7.602   -0.003          235844 0.00507  0.005074
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
7.901	7.903	-0.002	241387	0.00485	0.004846		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.215	8.214	0.001	254637	0.00496	0.004962		
15 Endosulfan I					CAS #: 959-98-8		
8.471	8.471	0.000	244036	0.00503	0.005029		
16 4,4'-DDE					CAS #: 72-55-9		
8.540	8.540	0.000	674375	0.00482	0.004823		
17 Dieldrin					CAS #: 60-57-1		
8.982	8.984	-0.002	688360	0.00480	0.004799		
18 Endrin					CAS #: 72-20-8		
9.409	9.408	0.001	265406	0.00487	0.004871		
20 4,4'-DDD					CAS #: 72-54-8		
9.721	9.721	0.000	561213	0.00479	0.004791		
22 Endosulfan II					CAS #: 33213-65-9		
9.830	9.829	0.001	264351	0.00504	0.005038		
23 4,4'-DDT					CAS #: 50-29-3		
10.210	10.211	-0.001	459071	0.00449	0.004495		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.584	10.583	0.001	235324	0.00526	0.005256		
27 Methoxychlor					CAS #: 72-43-5		
11.108	11.109	-0.001	278780	0.00522	0.005216		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.284	11.285	-0.001	576925	0.00521	0.005211		
29 Endrin ketone					CAS #: 53494-70-5		
11.679	11.679	0.000	322523	0.00510	0.005098		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\030F3001.D

Date : 15-MAR-2010 20:05

Client ID:

Instrument: a2hp9.i

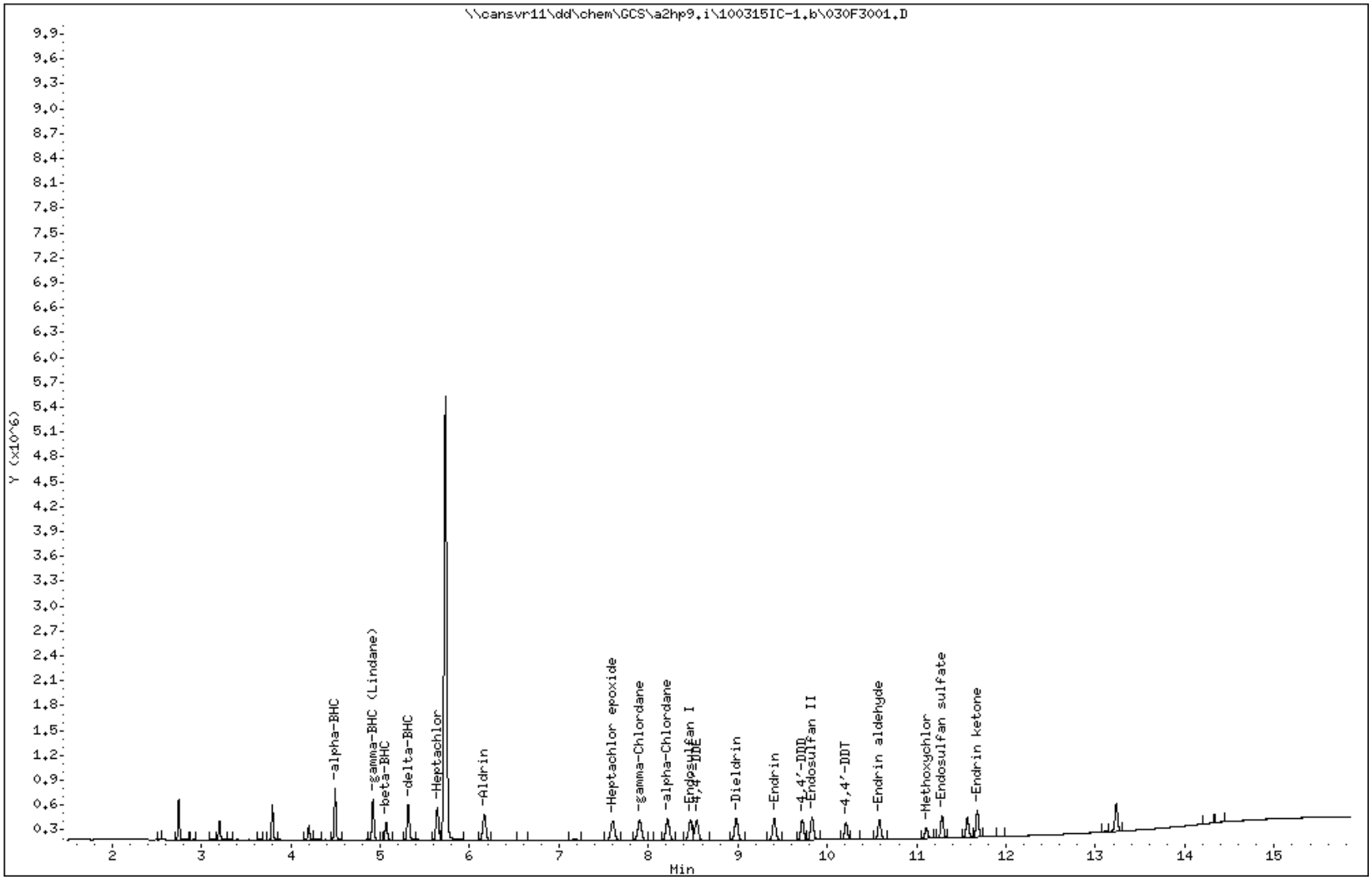
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 23:51
Lab File ID: 039F3901.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
24 Toxaphene(1)	1902709	1900978	1900978	0.010	0.09096	15.00000	Averaged
(2)	1827689	1794977	1794977	0.010	1.78980	15.00000	Averaged
(3)	1623385	1594894	1594894	0.010	1.75502	15.00000	Averaged
(4)	2314679	2258463	2258463	0.010	2.42865	15.00000	Averaged
(5)	2102694	2014882	2014882	0.010	4.17617	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.04812
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\039F3901.D
Lab Smp Id: TOX3 G268
Inj Date : 15-MAR-2010 23:51
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:25 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		
9.954	9.954	0.000	1900978	1.00000	0.9991	80.00- 120.00	100.00
10.384	10.384	0.000	1794977	1.00000	0.9821	114.04- 154.04	94.42
10.532	10.532	0.000	1594894	1.00000	0.9824	115.64- 155.64	83.90
11.094	11.094	0.000	2258463	1.00000	0.9757	52.78- 92.78	118.81
11.198	11.198	0.000	2014882	1.00000	0.9582	69.36- 109.36	105.99
		Average of Peak Amounts =			0.97950		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\039F3901.D

Page 1

Date : 15-MAR-2010 23:51

Client ID:

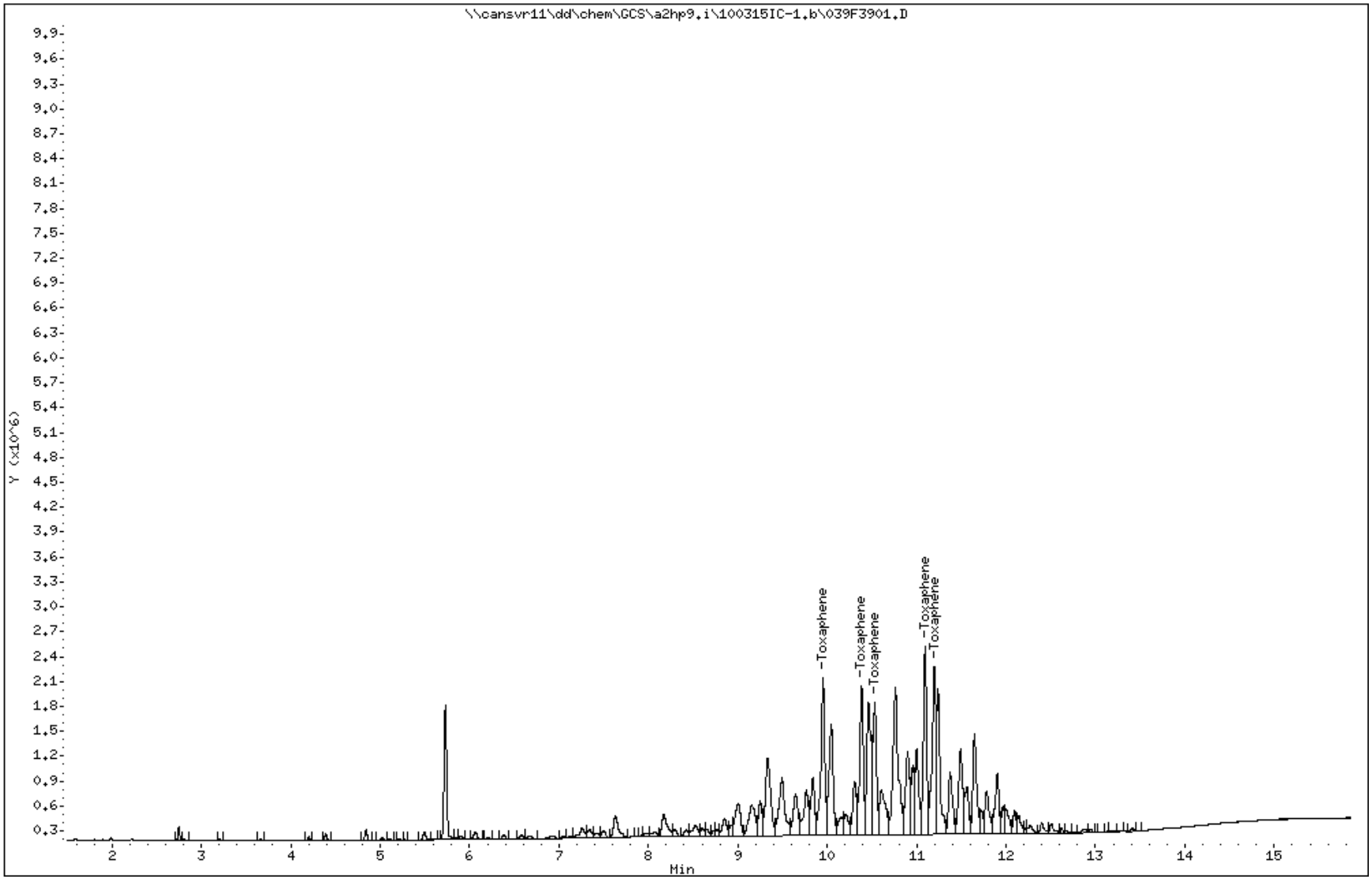
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 23:51
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/039F3901.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.954	5686785	0.999	0.999

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 16-MAR-2010 00:15
Lab File ID: 040F4001.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	84173465	84480280	84480280	0.000	-0.36450	15.00000	Averaged
4 alpha-BHC	133126098	135457960	135457960	0.010	-1.75162	15.00000	Averaged
5 gamma-BHC (Lindane)	165088708	165993280	165993280	0.010	-0.54793	15.00000	Averaged
6 beta-BHC	40431668	40625560	40625560	0.010	-0.47956	15.00000	Averaged
7 delta-BHC	165754598	168853760	168853760	0.010	-1.86973	15.00000	Averaged
8 Heptachlor	78731673	80900560	80900560	0.010	-2.75478	15.00000	Averaged
10 Aldrin	156923965	155873960	155873960	0.010	0.66912	15.00000	Averaged
12 Heptachlor epoxide	46480680	47214320	47214320	0.010	-1.57838	15.00000	Averaged
13 gamma-Chlordane	49811115	50411560	50411560	0.010	-1.20544	15.00000	Averaged
14 alpha-Chlordane	51312584	52645560	52645560	0.010	-2.59776	15.00000	Averaged
15 Endosulfan I	48523034	50089720	50089720	0.010	-3.22875	15.00000	Averaged
16 4,4'-DDE	139823780	140549480	140549480	0.010	-0.51901	15.00000	Averaged
17 Dieldrin	143431818	144585240	144585240	0.010	-0.80416	15.00000	Averaged
18 Endrin	54486263	57134520	57134520	0.010	-4.86041	15.00000	Averaged
20 4,4'-DDD	117147756	120214680	120214680	0.010	-2.61800	15.00000	Averaged
22 Endosulfan II	52467042	53697720	53697720	0.010	-2.34562	15.00000	Averaged
23 4,4'-DDT	102138274	98826360	98826360	0.010	3.24258	15.00000	Averaged
25 Endrin aldehyde	44770833	45220000	45220000	0.010	-1.00326	15.00000	Averaged
27 Methoxychlor	53449599	53698080	53698080	0.010	-0.46489	15.00000	Averaged
28 Endosulfan sulfate	110718182	111424440	111424440	0.010	-0.63789	15.00000	Averaged
29 Endrin ketone	63269941	65047600	65047600	0.010	-2.80964	15.00000	Averaged
$ 30 Decachlorobiphenyl	59416517	59471240	59471240	0.010	-0.09210	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.65660
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\040F4001.D
Lab Smp Id: AB3 G252
Inj Date : 16-MAR-2010 00:15
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:25 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.794	3.794	0.000	2112007	0.02500	0.02509		
4 alpha-BHC					CAS #: 319-84-6		
4.496	4.496	0.000	3386449	0.02500	0.02544		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.919	4.919	0.000	4149832	0.02500	0.02514		
6 beta-BHC					CAS #: 319-85-7		
5.066	5.066	0.000	1015639	0.02500	0.02512		
7 delta-BHC					CAS #: 319-86-8		
5.314	5.314	0.000	4221344	0.02500	0.02547		
		Sum of Peak Amounts =			0.02547		
8 Heptachlor					CAS #: 76-44-8		
5.638	5.638	0.000	2022514	0.02500	0.02569		
10 Aldrin					CAS #: 309-00-2		
6.164	6.164	0.000	3896849	0.02500	0.02483		
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.601	7.601	0.000	1180358	0.02500	0.02539		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.903	7.903	0.000	1260289	0.02500	0.02530		
14 alpha-Chlordane					CAS #: 5103-71-9		

8.215   8.215   0.000   1316139 0.02500 0.02565
---
   15 Endosulfan I   CAS #: 959-98-8
8.472   8.472   0.000   1252243 0.02500 0.02581

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
16 4,4'-DDE					CAS #: 72-55-9		
8.540	8.540	0.000	3513737	0.02500	0.02513		
17 Dieldrin					CAS #: 60-57-1		
8.984	8.984	0.000	3614631	0.02500	0.02520		
18 Endrin					CAS #: 72-20-8		
9.409	9.409	0.000	1428363	0.02500	0.02622		
20 4,4'-DDD					CAS #: 72-54-8		
9.721	9.721	0.000	3005367	0.02500	0.02565		
22 Endosulfan II					CAS #: 33213-65-9		
9.830	9.830	0.000	1342443	0.02500	0.02559		
23 4,4'-DDT					CAS #: 50-29-3		
10.211	10.211	0.000	2470659	0.02500	0.02419		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.585	10.585	0.000	1130500	0.02500	0.02525		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	1342452	0.02500	0.02512		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	2785611	0.02500	0.02516		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.680	0.000	1626190	0.02500	0.02570		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.234	13.234	0.000	1486781	0.02500	0.02502		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\040F4001.D

Page 1

Date : 16-MAR-2010 00:15

Client ID:

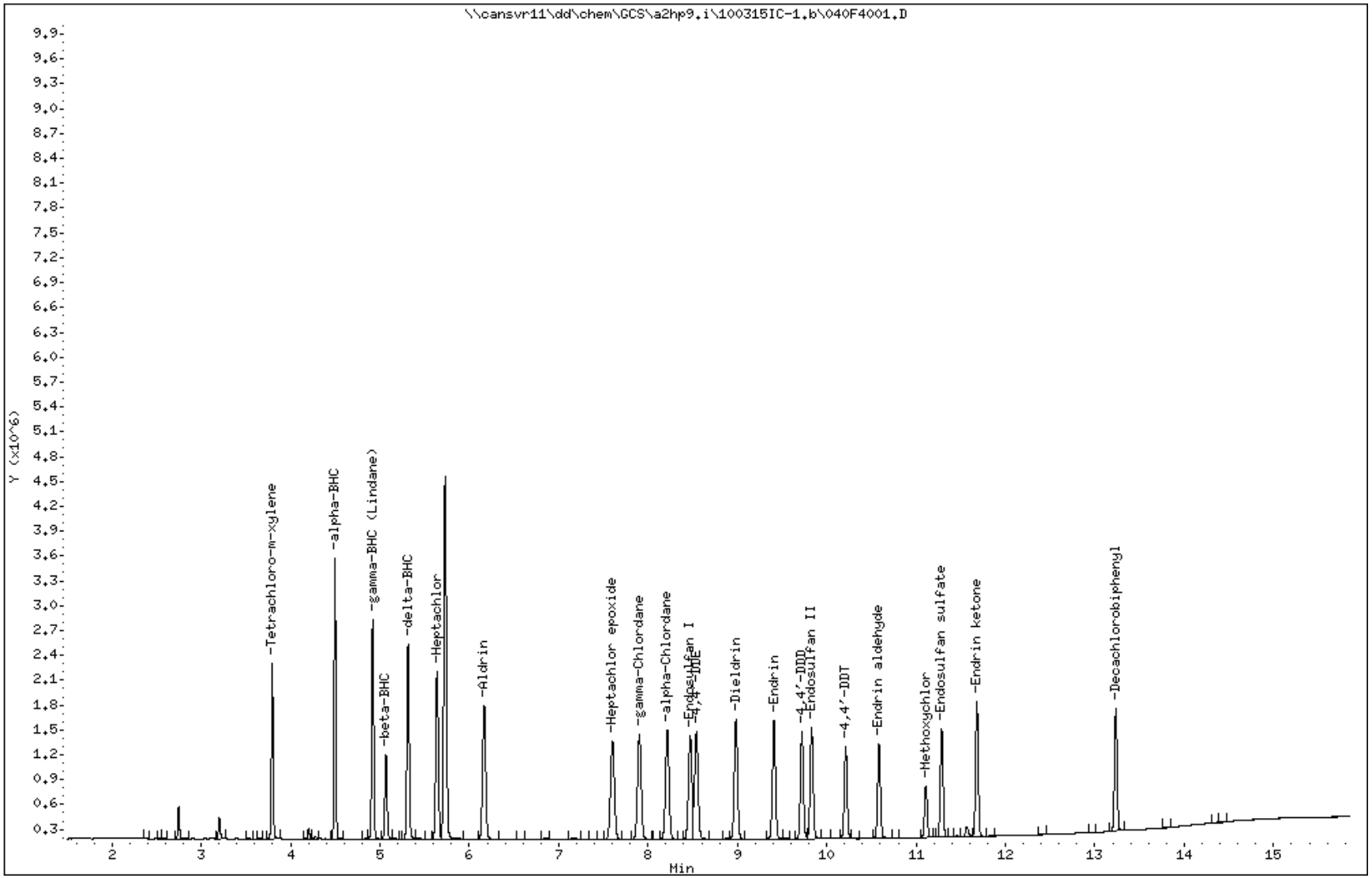
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 00:15
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/040F4001.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.795	2787945	0.025	0.025
4) alpha-BHC	4.497	4678421	0.025	0.025
5) gamma-BHC (Lindane)	4.919	4149832	0.025	0.025
6) beta-BHC	5.067	1723722	0.025	0.025
7) delta-BHC	5.315	4221344	0.025	0.025
8) Heptachlor	5.638	4146276	0.026	0.026
10) Aldrin	6.165	3896849	0.025	0.025
12) Heptachlor epoxide	7.602	3610663	0.025	0.025
13) gamma-Chlordane	7.903	3673405	0.025	0.025
14) alpha-Chlordane	8.216	3642961	0.026	0.026
15) Endosulfan I	8.472	3391726	0.026	0.026
16) 4,4'-DDE	8.541	3513737	0.025	0.025
17) Dieldrin	8.985	3614631	0.025	0.025
18) Endrin	9.410	3397913	0.026	0.026
20) 4,4'-DDD	9.722	3005367	0.026	0.026
22) Endosulfan II	9.831	3203111	0.026	0.026
23) 4,4'-DDT	10.212	2470659	0.024	0.024
25) Endrin aldehyde	10.586	2544849	0.025	0.025
27) Methoxychlor	11.110	1342452	0.025	0.025
28) Endosulfan sulfate	11.286	2785611	0.025	0.025
29) Endrin ketone	11.681	3337013	0.026	0.026
30) Decachlorobiphenyl	13.235	3071648	0.025	0.025

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\041F4101.D Page 1
Report Date: 16-Mar-2010 07:25

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004764	95.28	70-130
5 gamma-BHC (Lindane	0.005000	0.004888	97.77	70-130
6 beta-BHC	0.005000	0.005459	109.18	70-130
7 delta-BHC	0.005000	0.004755	95.10	70-130
8 Heptachlor	0.005000	0.005090	101.80	70-130
10 Aldrin	0.005000	0.005022	100.43	70-130
12 Heptachlor epoxide	0.005000	0.005188	103.76	70-130
13 gamma-Chlordane	0.005000	0.004977	99.53	70-130
14 alpha-Chlordane	0.005000	0.005122	102.45	70-130
15 Endosulfan I	0.005000	0.005257	105.15	70-130
16 4,4'-DDE	0.005000	0.004914	98.28	70-130
17 Dieldrin	0.005000	0.004975	99.50	70-130
18 Endrin	0.005000	0.004982	99.65	70-130
20 4,4'-DDD	0.005000	0.004980	99.61	70-130
22 Endosulfan II	0.005000	0.005155	103.10	70-130
23 4,4'-DDT	0.005000	0.004542	90.84	70-130
25 Endrin aldehyde	0.005000	0.005356	107.13	70-130
27 Methoxychlor	0.005000	0.005303	106.06	70-130
28 Endosulfan sulfate	0.005000	0.005377	107.53	70-130
29 Endrin ketone	0.005000	0.005315	106.30	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\041F4101.D
Lab Smp Id: MRL
Inj Date : 16-MAR-2010 00:38
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:25 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 41 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
4.496	4.496	0.000	634192	0.00476	0.004764		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.918	4.919	-0.001	807044	0.00489	0.004888		
6 beta-BHC					CAS #: 319-85-7		
5.067	5.066	0.001	220718	0.00546	0.005459		
7 delta-BHC					CAS #: 319-86-8		
5.313	5.314	-0.001	788200	0.00476	0.004755		
Sum of Peak Concentrations = 0.004755							
8 Heptachlor					CAS #: 76-44-8		
5.637	5.638	-0.001	400725	0.00509	0.005090		
10 Aldrin					CAS #: 309-00-2		

```
6.164    6.164    0.000          788003 0.00502  0.005022
--------------------------------------------------------------------------------
   12 Heptachlor epoxide                          CAS #: 1024-57-3
7.598    7.601   -0.003          241152 0.00519  0.005188
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
13 gamma-Chlordane					CAS #: 5103-74-2		
7.902	7.903	-0.001	247893	0.00498	0.004977		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.214	8.215	-0.001	262850	0.00512	0.005122		
15 Endosulfan I					CAS #: 959-98-8		
8.469	8.472	-0.003	255105	0.00526	0.005257		
16 4,4'-DDE					CAS #: 72-55-9		
8.540	8.540	0.000	687088	0.00491	0.004914		
17 Dieldrin					CAS #: 60-57-1		
8.982	8.984	-0.002	713572	0.00497	0.004975		
18 Endrin					CAS #: 72-20-8		
9.407	9.409	-0.002	271469	0.00498	0.004982		
20 4,4'-DDD					CAS #: 72-54-8		
9.721	9.721	0.000	583436	0.00498	0.004980		
22 Endosulfan II					CAS #: 33213-65-9		
9.829	9.830	-0.001	270456	0.00515	0.005155		
23 4,4'-DDT					CAS #: 50-29-3		
10.210	10.211	-0.001	463916	0.00454	0.004542		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.585	10.585	0.000	239806	0.00536	0.005356		
27 Methoxychlor					CAS #: 72-43-5		
11.107	11.109	-0.002	283439	0.00530	0.005303		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.285	11.285	0.000	595297	0.00538	0.005377		
29 Endrin ketone					CAS #: 53494-70-5		
11.678	11.680	-0.002	336280	0.00532	0.005315		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\041F4101.D

Date : 16-MAR-2010 00:38

Client ID:

Instrument: a2hp9.i

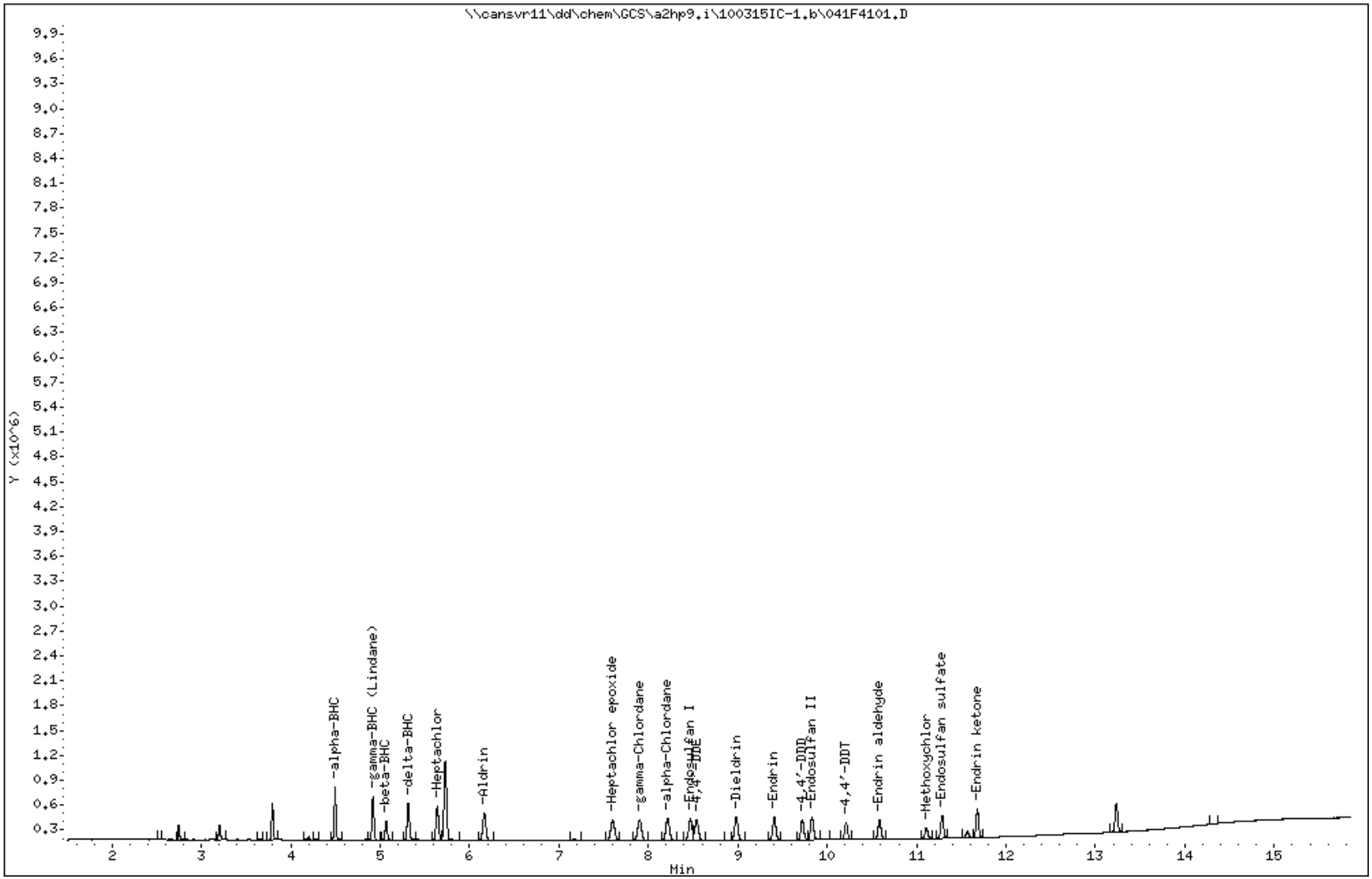
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b/050F5001.D
Report Date: 03/16/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 16-MAR-2010 04:24
Lab File ID: 050F5001.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\P

4,4'-DDT Degradation

RT	Area	Compound
10.212	10512793	4,4'-DDT
8.5440	48617	4,4'-DDE
9.7215	808402	4,4'-DDD

Percent Degradation of 4,4'-DDT: 7.54

Endrin Degradation

RT	Area	Compound
9.4082	6314331	Endrin
10.583	223139	Endrin aldehyde
11.679	413422	Endrin ketone

Percent Degradation of Endrin: 9.16

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\050F5001.D
Lab Smp Id: PEM E006
Inj Date : 16-MAR-2010 04:24
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 07:27 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 50 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
4.496	4.496	0.000	1260596	0.00947	0.009469		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.918	4.919	-0.001	1568891	0.00950	0.009503		
6 beta-BHC						CAS #: 319-85-7	
5.066	5.066	0.000	380167	0.00940	0.009403		
16 4,4'-DDE						CAS #: 72-55-9	
8.543	8.540	0.003	48617	3e-004	0.0003477		
18 Endrin						CAS #: 72-20-8	
9.408	9.409	-0.001	2535456	0.04653	0.04653		
20 4,4'-DDD						CAS #: 72-54-8	
9.721	9.721	0.000	808402	0.00690	0.006901		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

23 4,4'-DDT						CAS #: 50-29-3	
10.212	10.211	0.001	10512793	0.10293	0.1029		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.583	10.585	-0.002	90994	0.00203	0.002032		

```
   27 Methoxychlor                                CAS #: 72-43-5
11.108  11.109   -0.001        12784249 0.23918   0.2392
--------------------------------------------------------------------------------
   28 Endosulfan sulfate                          CAS #: 1031-07-8
11.274  11.285   -0.011           40509  4e-004  0.0003659
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		
11.678	11.680	-0.002	200444	0.00317	0.003168		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\050F5001.D

Date : 16-MAR-2010 04:24

Client ID:

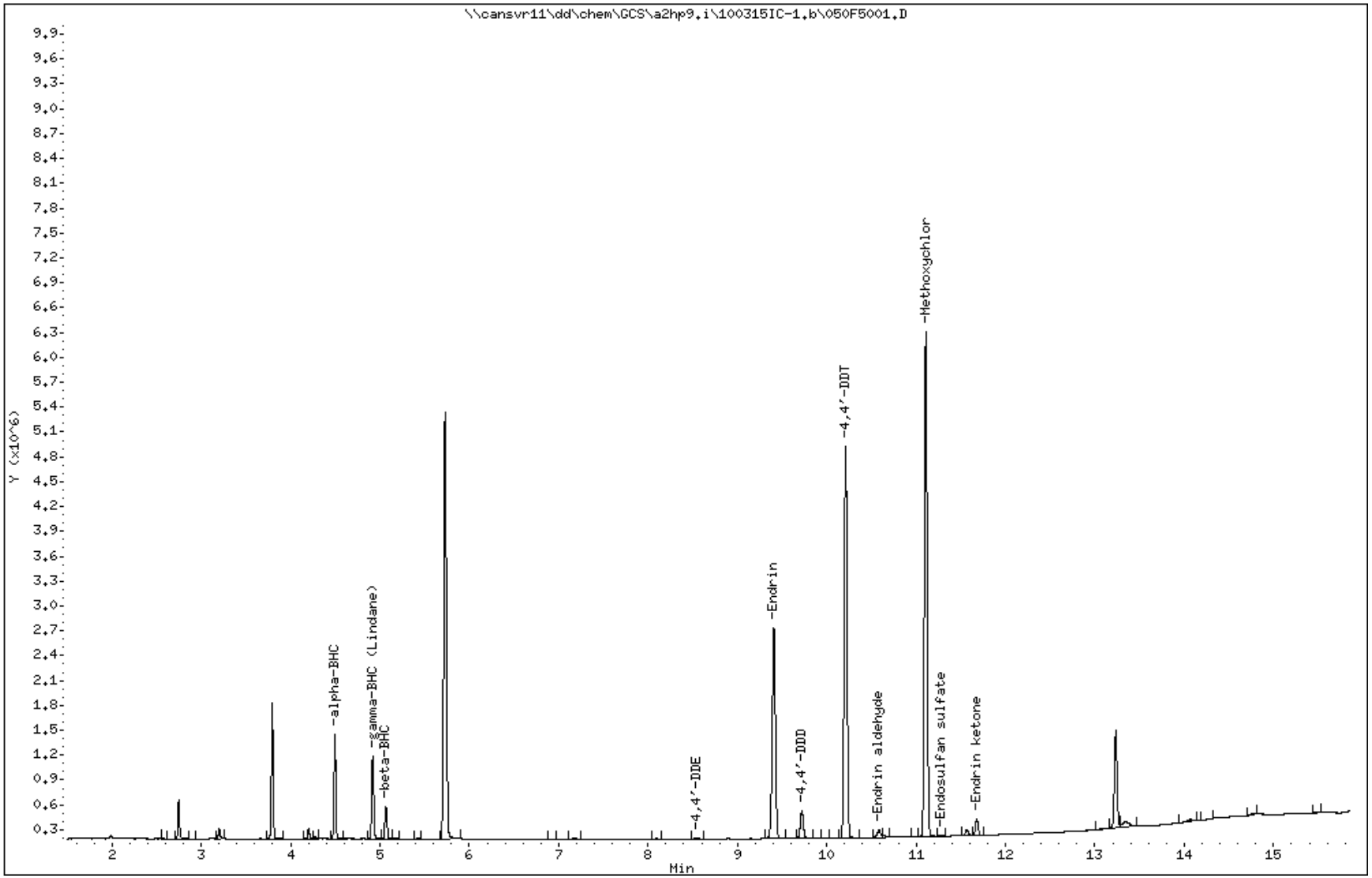
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 04:24
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/050F5001.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	4.496	1718058	0.009	0.009
5) gamma-BHC (Lindane)	4.919	1568891	0.010	0.010
6) beta-BHC	5.066	667430	0.009	0.009
16) 4,4'-DDE	8.544	48617	0.000	0.000
18) Endrin	9.408	6314331	0.047	0.047
20) 4,4'-DDD	9.721	808402	0.007	0.007
22) Endosulfan II	NOT DETECTED Expected RT = 9.831			
23) 4,4'-DDT	10.212	10512793	0.103	0.103
25) Endrin aldehyde	10.583	223139	0.002	0.002
27) Methoxychlor	11.108	12784249	0.239	0.239
28) Endosulfan sulfate	11.275	40509	0.000	0.000
29) Endrin ketone	11.679	413422	0.003	0.003

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RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004554	91.07	70-130
5 gamma-BHC (Lindane	0.005000	0.004743	94.87	70-130
6 beta-BHC	0.005000	0.005619	112.38	70-130
7 delta-BHC	0.005000	0.004582	91.63	70-130
8 Heptachlor	0.005000	0.005058	101.15	70-130
10 Aldrin	0.005000	0.004737	94.75	70-130
12 Heptachlor epoxide	0.005000	0.005021	100.41	70-130
13 gamma-Chlordane	0.005000	0.004987	99.75	70-130
14 alpha-Chlordane	0.005000	0.005125	102.50	70-130
15 Endosulfan I	0.005000	0.005144	102.87	70-130
16 4,4'-DDE	0.005000	0.004755	95.10	70-130
17 Dieldrin	0.005000	0.004866	97.32	70-130
18 Endrin	0.005000	0.004864	97.28	70-130
21 4,4'-DDD	0.005000	0.004737	94.75	70-130
22 Endosulfan II	0.005000	0.005072	101.44	70-130
24 4,4'-DDT	0.005000	0.004534	90.69	70-130
25 Endrin aldehyde	0.005000	0.005332	106.65	70-130
26 Endosulfan sulfate	0.005000	0.005068	101.35	70-130
27 Methoxychlor	0.005000	0.005050	101.00	70-130
29 Endrin ketone	0.005000	0.005358	107.17	70-130

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\011F1101.D
Lab Smp Id: MRL
Inj Date : 15-MAR-2010 12:16
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 07:53 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 11 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.284	0.002	490292	0.00455	0.004554		
55 DDD/Endosulfan II						CAS #: 72-54-8/332-65-	

Peaks not detected for Quant. or Qual. signal(s).

5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.940	5.939	0.001	466491	0.00474	0.004743		
6 beta-BHC						CAS #: 319-85-7	
6.147	6.144	0.003	103011	0.00562	0.005619		
7 delta-BHC						CAS #: 319-86-8	
6.800	6.798	0.002	449252	0.00458	0.004582		

```
    8 Heptachlor                                    CAS #: 76-44-8
6.917    6.916    0.001          480165 0.00506  0.005058
--------------------------------------------------------------------------------
   10 Aldrin                                        CAS #: 309-00-2
7.742    7.740    0.002          142191 0.00474  0.004737
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.090	9.088	0.002	407193	0.00502	0.005021		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.476	9.474	0.002	404734	0.00499	0.004987		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.762	9.760	0.002	405952	0.00512	0.005125		
15 Endosulfan I					CAS #: 959-98-8		
9.826	9.824	0.002	382417	0.00514	0.005144		
16 4,4'-DDE					CAS #: 72-55-9		
10.169	10.167	0.002	156975	0.00475	0.004755		
17 Dieldrin					CAS #: 60-57-1		
10.323	10.322	0.001	373784	0.00487	0.004866		
18 Endrin					CAS #: 72-20-8		
10.824	10.823	0.001	341668	0.00486	0.004864		
21 4,4'-DDD					CAS #: 72-54-8		
11.142	11.139	0.003	139599	0.00474	0.004737		
22 Endosulfan II					CAS #: 33213-65-9		
11.185	11.183	0.002	163839	0.00507	0.005072		
24 4,4'-DDT					CAS #: 50-29-3		
11.625	11.623	0.002	115345	0.00453	0.004534		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.732	11.729	0.003	289335	0.00533	0.005332		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.155	12.153	0.002	151942	0.00507	0.005068		
27 Methoxychlor					CAS #: 72-43-5		
12.674	12.672	0.002	133430	0.00505	0.005050		
29 Endrin ketone					CAS #: 53494-70-5		
12.892	12.889	0.003	373018	0.00536	0.005358		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\011F1101.D

Date : 15-MAR-2010 12:16

Client ID:

Instrument: a2hp9.i

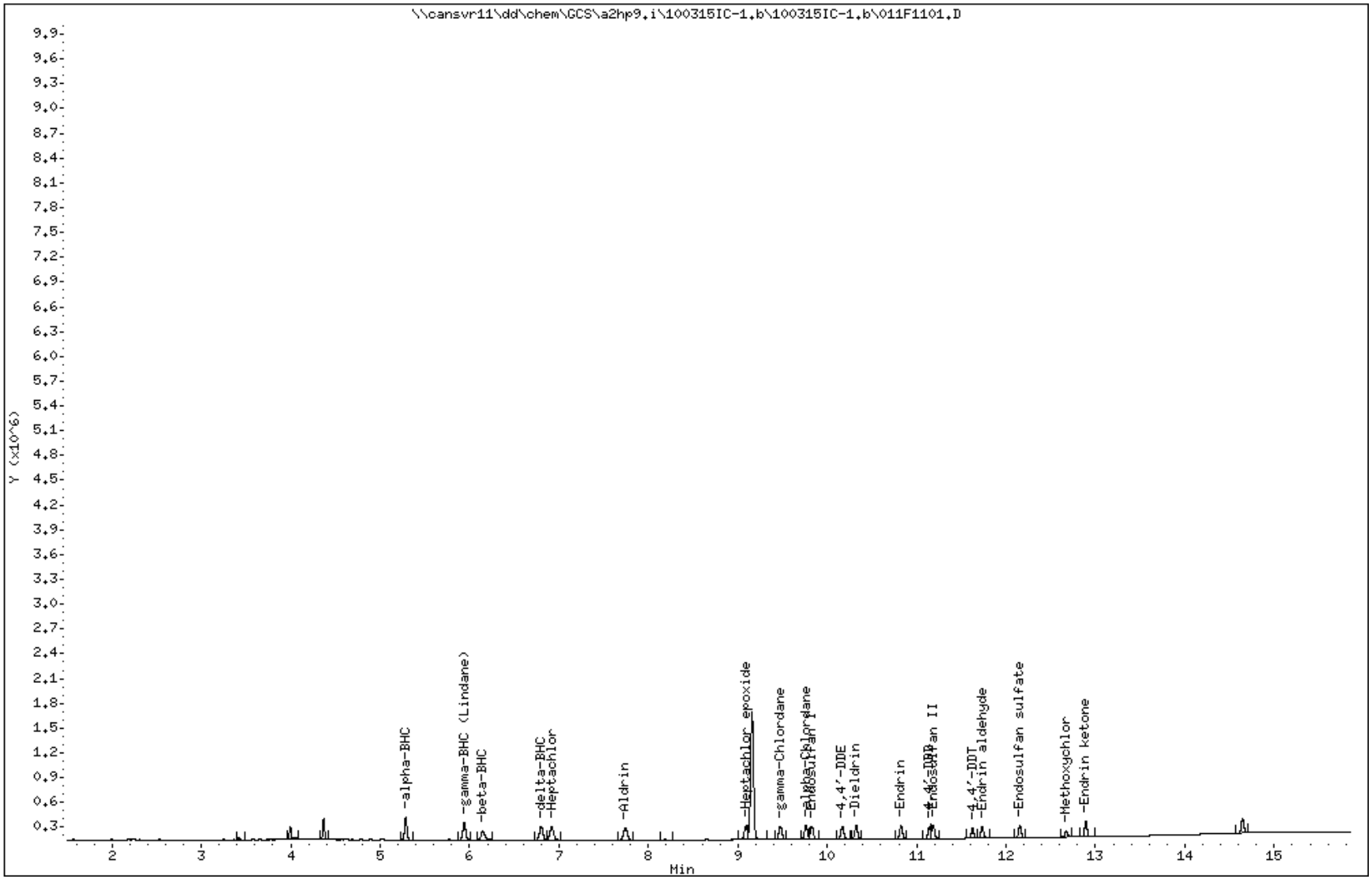
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 18:54
Lab File ID: 027F2701.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
23 Toxaphene(1)	1348963	1342789	1342789	0.010	0.45772	15.00000	Averaged
(2)	636269	626473	626473	0.010	1.53953	15.00000	Averaged
(3)	1258482	1250293	1250293	0.010	0.65072	15.00000	Averaged
(4)	1158548	1135071	1135071	0.010	2.02638	15.00000	Averaged
(5)	563226	559976	559976	0.010	0.57704	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.05028
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\027F2701.D
Lab Smp Id: TOX3 G268
Inj Date : 15-MAR-2010 18:54
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 07:55 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.332	11.332	0.000	1342789	1.00000	0.9954	80.00- 120.00	100.00
11.446	11.446	0.000	626473	1.00000	0.9846	114.04- 154.04	46.65
11.745	11.745	0.000	1250293	1.00000	0.9935	115.64- 155.64	93.11
12.489	12.489	0.000	1135071	1.00000	0.9797	52.78- 92.78	84.53
12.864	12.864	0.000	559976	1.00000	0.9942	69.36- 109.36	41.70
		Average of Peak Amounts =			0.98948		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\027F2701.D

Date : 15-MAR-2010 18:54

Client ID:

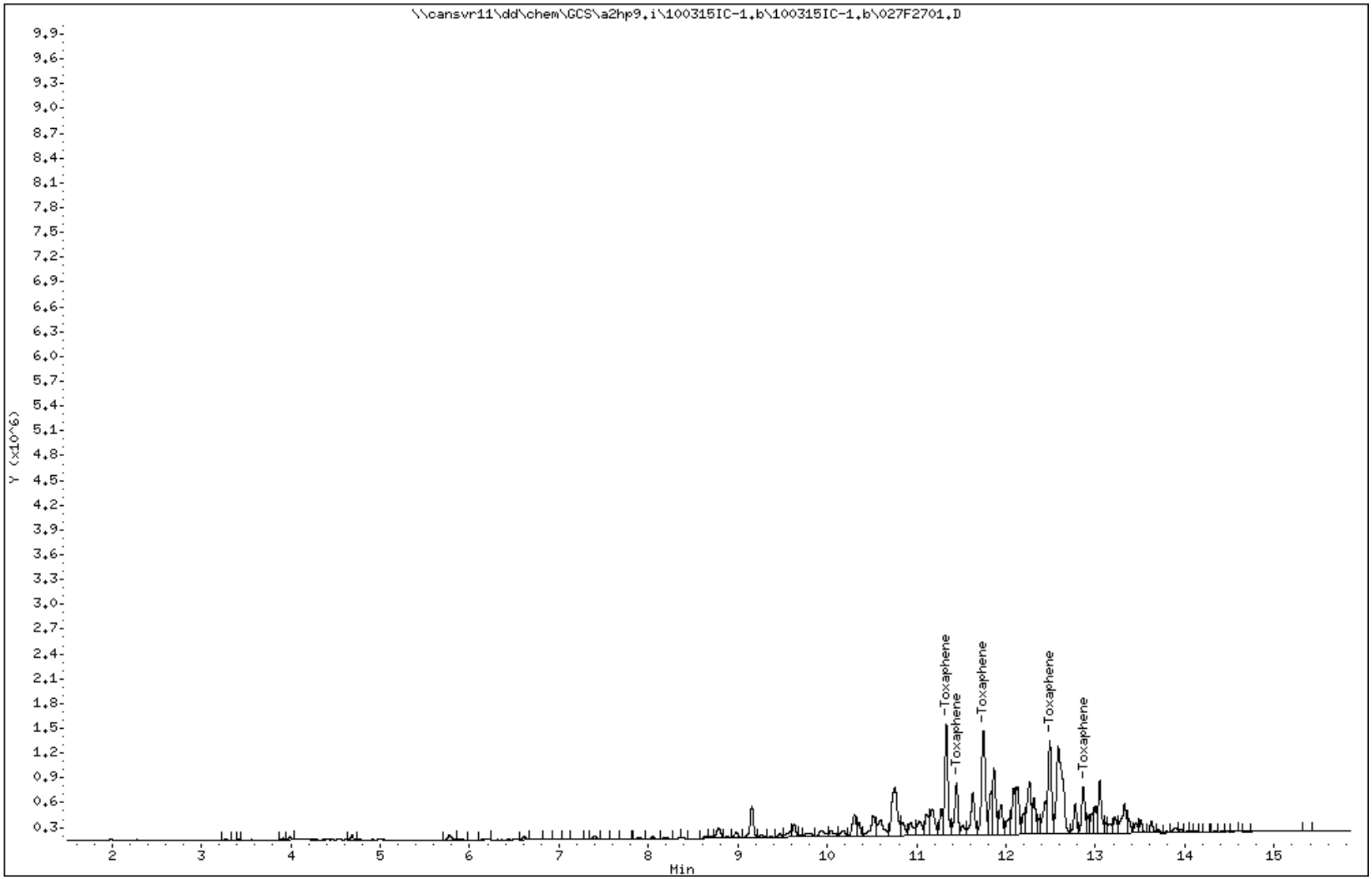
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 18:54
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/027F2701.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.332	3354339	0.995	0.995

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b/028F2801.D
Report Date: 03/16/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 19:18
Lab File ID: 028F2801.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\

4,4'-DDT Degradation

RT	Area	Compound
11.625	5326931	4,4'-DDT
10.170	34725	4,4'-DDE
11.142	381615	4,4'-DDD

Percent Degradation of 4,4'-DDT: 7.25

Endrin Degradation

RT	Area	Compound
10.826	3248700	Endrin
11.732	107315	Endrin aldehyde
12.890	295821	Endrin ketone

Percent Degradation of Endrin: 11.04

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\028F2801.D
Lab Smp Id: PEM E006
Inj Date : 15-MAR-2010 19:18
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 07:55 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 28 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.284	0.002	997718	0.00927	0.009266		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.941	5.939	0.002	930614	0.00946	0.009462		
6 beta-BHC						CAS #: 319-85-7	
6.147	6.144	0.003	184349	0.01006	0.01006		
16 4,4'-DDE						CAS #: 72-55-9	
10.169	10.167	0.002	12997	4e-004	0.0003937		
18 Endrin						CAS #: 72-20-8	
10.825	10.823	0.002	3248700	0.04625	0.04625		
21 4,4'-DDD						CAS #: 72-54-8	
11.142	11.139	0.003	174862	0.00593	0.005934		
22 Endosulfan II						CAS #: 33213-65-9	

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT						CAS #: 50-29-3	
11.624	11.623	0.001	2719167	0.10690	0.1069		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.731	11.729	0.002	107315	0.00198	0.001978		

```
   27 Methoxychlor                                CAS #: 72-43-5
12.673  12.672    0.001         6722150 0.25441   0.2544
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

12.889	12.889	0.000	295821	0.00425	0.004249		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\028F2801.D

Date : 15-MAR-2010 19:18

Client ID:

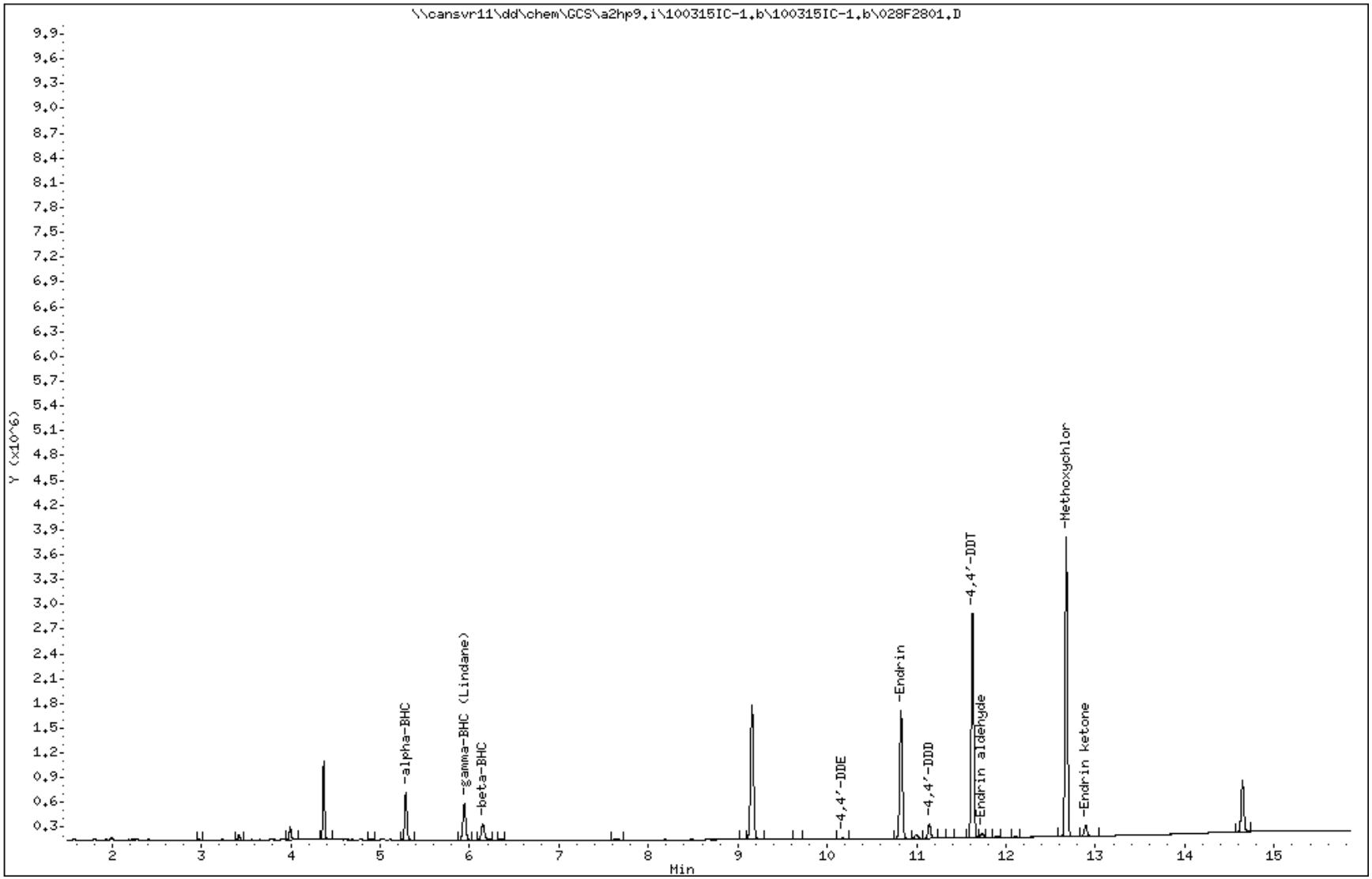
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 19:18
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/028F2801.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.287	997718	0.009	0.009
5) gamma-BHC (Lindane)	5.942	930614	0.009	0.009
6) beta-BHC	6.147	469653	0.010	0.010
16) 4,4'-DDE	10.170	34725	0.000	0.000
18) Endrin	10.826	3248700	0.046	0.046
21) 4,4'-DDD	11.142	381615	0.006	0.006
22) Endosulfan II	NOT DETECTED	Expected RT = 11.186		
24) 4,4'-DDT	11.625	5326931	0.107	0.107
25) Endrin aldehyde	11.732	107315	0.002	0.002
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.156		
27) Methoxychlor	12.673	6722150	0.254	0.254
29) Endrin ketone	12.890	295821	0.004	0.004

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 19:42
Lab File ID: 029F2901.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	48900426	48284160	48284160	0.000	1.26025	15.00000	Averaged
4 alpha-BHC	107670684	106850280	106850280	0.010	0.76196	15.00000	Averaged
5 gamma-BHC (Lindane)	98347928	97060120	97060120	0.010	1.30944	15.00000	Averaged
6 beta-BHC	18332186	18852400	18852400	0.010	-2.83771	15.00000	Averaged
7 delta-BHC	98057548	97511560	97511560	0.010	0.55680	15.00000	Averaged
8 Heptachlor	94940530	94517240	94517240	0.010	0.44585	15.00000	Averaged
10 Aldrin	30014083	29758200	29758200	0.010	0.85254	15.00000	Averaged
12 Heptachlor epoxide	81103319	78850920	78850920	0.010	2.77720	15.00000	Averaged
13 gamma-Chlordane	81149805	79577040	79577040	0.010	1.93810	15.00000	Averaged
14 alpha-Chlordane	79210359	78421120	78421120	0.010	0.99638	15.00000	Averaged
15 Endosulfan I	74347394	73588880	73588880	0.010	1.02023	15.00000	Averaged
16 4,4'-DDE	33013501	32473440	32473440	0.010	1.63588	15.00000	Averaged
17 Dieldrin	76819176	75975320	75975320	0.010	1.09850	15.00000	Averaged
18 Endrin	70247174	69402160	69402160	0.010	1.20292	15.00000	Averaged
21 4,4'-DDD	29466884	30077800	30077800	0.010	-2.07323	15.00000	Averaged
22 Endosulfan II	32303936	32340680	32340680	0.010	-0.11375	15.00000	Averaged
24 4,4'-DDT	25436776	25094240	25094240	0.010	1.34662	15.00000	Averaged
25 Endrin aldehyde	54259043	54127080	54127080	0.010	0.24321	15.00000	Averaged
26 Endosulfan sulfate	29982247	29960680	29960680	0.010	0.07193	15.00000	Averaged
27 Methoxychlor	26422638	26636880	26636880	0.010	-0.81083	15.00000	Averaged
29 Endrin ketone	69615319	70978440	70978440	0.010	-1.95808	15.00000	Averaged
$ 30 Decachlorobiphenyl	64117263	64741120	64741120	0.010	-0.97299	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.19474
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\029F2901.D
Lab Smp Id: AB3 G252
Inj Date : 15-MAR-2010 19:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 07:55 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.368	4.368	0.000	1207104	0.02500	0.02468		
4 alpha-BHC					CAS #: 319-84-6		
5.285	5.285	0.000	2671257	0.02500	0.02481		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.939	5.939	0.000	2426503	0.02500	0.02467		
6 beta-BHC					CAS #: 319-85-7		
6.146	6.146	0.000	471310	0.02500	0.02571		
7 delta-BHC					CAS #: 319-86-8		
6.799	6.799	0.000	2437789	0.02500	0.02486		
8 Heptachlor					CAS #: 76-44-8		
6.917	6.917	0.000	2362931	0.02500	0.02489		
10 Aldrin					CAS #: 309-00-2		
7.742	7.742	0.000	743955	0.02500	0.02479		
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.089	9.089	0.000	1971273	0.02500	0.02430		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.475	9.475	0.000	1989426	0.02500	0.02452		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.761	9.761	0.000	1960528	0.02500	0.02475		

```
--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.825    9.825    0.000         1839722 0.02500  0.02474
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
16 4,4'-DDE						CAS #: 72-55-9	
10.168	10.168	0.000	811836	0.02500	0.02459		
17 Dieldrin						CAS #: 60-57-1	
10.323	10.323	0.000	1899383	0.02500	0.02472		
18 Endrin						CAS #: 72-20-8	
10.824	10.824	0.000	1735054	0.02500	0.02470		
21 4,4'-DDD						CAS #: 72-54-8	
11.140	11.140	0.000	751945	0.02500	0.02552		
22 Endosulfan II						CAS #: 33213-65-9	
11.184	11.184	0.000	808517	0.02500	0.02503		
24 4,4'-DDT						CAS #: 50-29-3	
11.624	11.624	0.000	627356	0.02500	0.02466		
25 Endrin aldehyde						CAS #: 7421-93-4	
11.731	11.731	0.000	1353177	0.02500	0.02494		
26 Endosulfan sulfate						CAS #: 1031-07-8	
12.154	12.154	0.000	749017	0.02500	0.02498		
27 Methoxychlor						CAS #: 72-43-5	
12.672	12.672	0.000	665922	0.02500	0.02520		
29 Endrin ketone						CAS #: 53494-70-5	
12.891	12.891	0.000	1774461	0.02500	0.02549		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
14.643	14.643	0.000	1618528	0.02500	0.02524		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\029F2901.D

Date : 15-MAR-2010 19:42

Client ID:

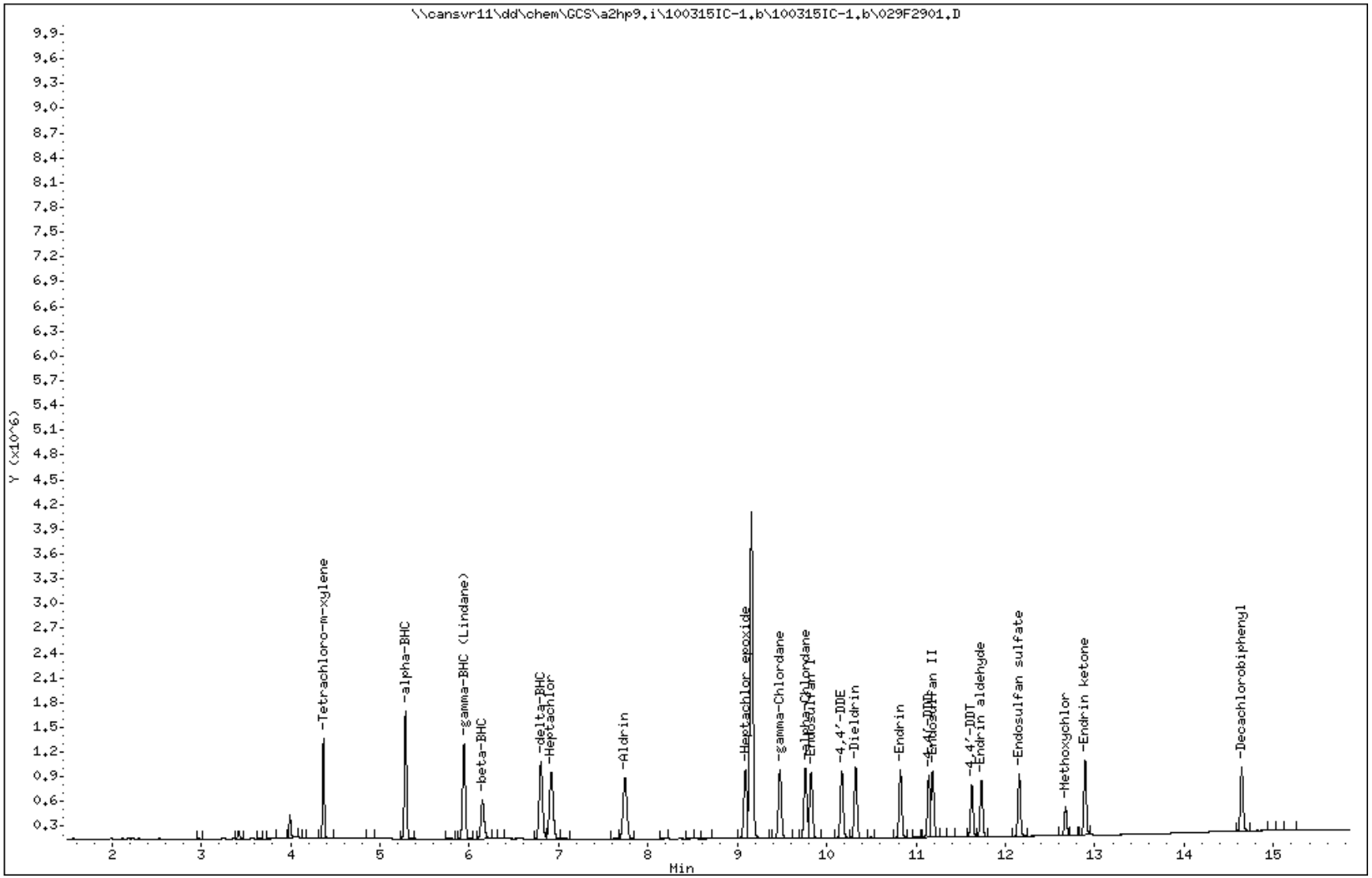
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 19:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/029F2901.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.368	1636461	0.025	0.025
4) alpha-BHC	5.286	2671257	0.025	0.025
5) gamma-BHC (Lindane)	5.940	2426503	0.025	0.025
6) beta-BHC	6.147	1220111	0.026	0.026
7) delta-BHC	6.800	2437789	0.025	0.025
8) Heptachlor	6.917	2362931	0.025	0.025
10) Aldrin	7.742	2228660	0.025	0.025
12) Heptachlor epoxide	9.089	1971273	0.024	0.024
13) gamma-Chlordane	9.476	1989426	0.025	0.025
14) alpha-Chlordane	9.762	1960528	0.025	0.025
15) Endosulfan I	9.826	1839722	0.025	0.025
16) 4,4'-DDE	10.168	1798734	0.025	0.025
17) Dieldrin	10.323	1899383	0.025	0.025
18) Endrin	10.825	1735054	0.025	0.025
21) 4,4'-DDD	11.141	1500172	0.026	0.026
22) Endosulfan II	11.184	1690934	0.025	0.025
24) 4,4'-DDT	11.624	1234625	0.025	0.025
25) Endrin aldehyde	11.732	1353177	0.025	0.025
26) Endosulfan sulfate	12.154	1493743	0.025	0.025
27) Methoxychlor	12.672	665922	0.025	0.025
29) Endrin ketone	12.892	1774461	0.025	0.025
30) Decachlorobiphenyl	14.643	1618528	0.025	0.025

Report Date: 16-Mar-2010 07:55

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004578	91.55	70-130
5 gamma-BHC (Lindane	0.005000	0.004752	95.05	70-130
6 beta-BHC	0.005000	0.005891	117.82	70-130
7 delta-BHC	0.005000	0.004632	92.65	70-130
8 Heptachlor	0.005000	0.005057	101.14	70-130
10 Aldrin	0.005000	0.004730	94.61	70-130
12 Heptachlor epoxide	0.005000	0.004929	98.57	70-130
13 gamma-Chlordane	0.005000	0.004969	99.38	70-130
14 alpha-Chlordane	0.005000	0.005090	101.79	70-130
15 Endosulfan I	0.005000	0.005124	102.48	70-130
16 4,4'-DDE	0.005000	0.004773	95.47	70-130
17 Dieldrin	0.005000	0.004920	98.41	70-130
18 Endrin	0.005000	0.004908	98.17	70-130
21 4,4'-DDD	0.005000	0.004888	97.75	70-130
22 Endosulfan II	0.005000	0.005115	102.30	70-130
24 4,4'-DDT	0.005000	0.004499	89.97	70-130
25 Endrin aldehyde	0.005000	0.005484	109.69	70-130
26 Endosulfan sulfate	0.005000	0.005202	104.05	70-130
27 Methoxychlor	0.005000	0.005495	109.89	70-130
29 Endrin ketone	0.005000	0.007300	146.00*	70-130

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\030F3001.D
Lab Smp Id: MRL
Inj Date : 15-MAR-2010 20:05
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 07:55 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 30 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
4 alpha-BHC						CAS #: 319-84-6	
5.285	5.285	0.000	492879	0.00458	0.004578		
55 DDD/Endosulfan II						CAS #: 72-54-8/332-65-	

Peaks not detected for Quant. or Qual. signal(s).

5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.939	5.939	0.000	467378	0.00475	0.004752		
6 beta-BHC						CAS #: 319-85-7	
6.148	6.146	0.002	107997	0.00589	0.005891		
7 delta-BHC						CAS #: 319-86-8	
6.800	6.799	0.001	454260	0.00463	0.004632		

```
    8 Heptachlor                                    CAS #: 76-44-8
6.917    6.917    0.000          480133 0.00506  0.005057
--------------------------------------------------------------------------------
   10 Aldrin                                        CAS #: 309-00-2
7.742    7.742    0.000          141980 0.00473  0.004730
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	
12 Heptachlor epoxide						CAS #: 1024-57-3		
9.089	9.089	0.000	399734	0.00493	0.004929			
13 gamma-Chlordane						CAS #: 5103-74-2		
9.474	9.475	-0.001	403249	0.00497	0.004969			
14 alpha-Chlordane						CAS #: 5103-71-9		
9.760	9.761	-0.001	403143	0.00509	0.005090			
15 Endosulfan I						CAS #: 959-98-8		
9.824	9.825	-0.001	380953	0.00512	0.005124			
16 4,4'-DDE						CAS #: 72-55-9		
10.167	10.168	-0.001	157583	0.00477	0.004773			
17 Dieldrin						CAS #: 60-57-1		
10.323	10.323	0.000	377991	0.00492	0.004920			
18 Endrin						CAS #: 72-20-8		
10.824	10.824	0.000	344804	0.00491	0.004908			
21 4,4'-DDD						CAS #: 72-54-8		
11.140	11.140	0.000	144021	0.00489	0.004888			
22 Endosulfan II						CAS #: 33213-65-9		
11.184	11.184	0.000	165240	0.00512	0.005115			
24 4,4'-DDT						CAS #: 50-29-3		
11.623	11.624	-0.001	114432	0.00450	0.004499			
25 Endrin aldehyde						CAS #: 7421-93-4		
11.729	11.731	-0.002	297581	0.00548	0.005484			
26 Endosulfan sulfate						CAS #: 1031-07-8		
12.152	12.154	-0.002	155977	0.00520	0.005202			
27 Methoxychlor						CAS #: 72-43-5		
12.671	12.672	-0.001	145183	0.00549	0.005495			
29 Endrin ketone						CAS #: 53494-70-5		
12.887	12.891	-0.004	508203	0.00730	0.007300			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\030F3001.D

Date : 15-MAR-2010 20:05

Client ID:

Instrument: a2hp9.i

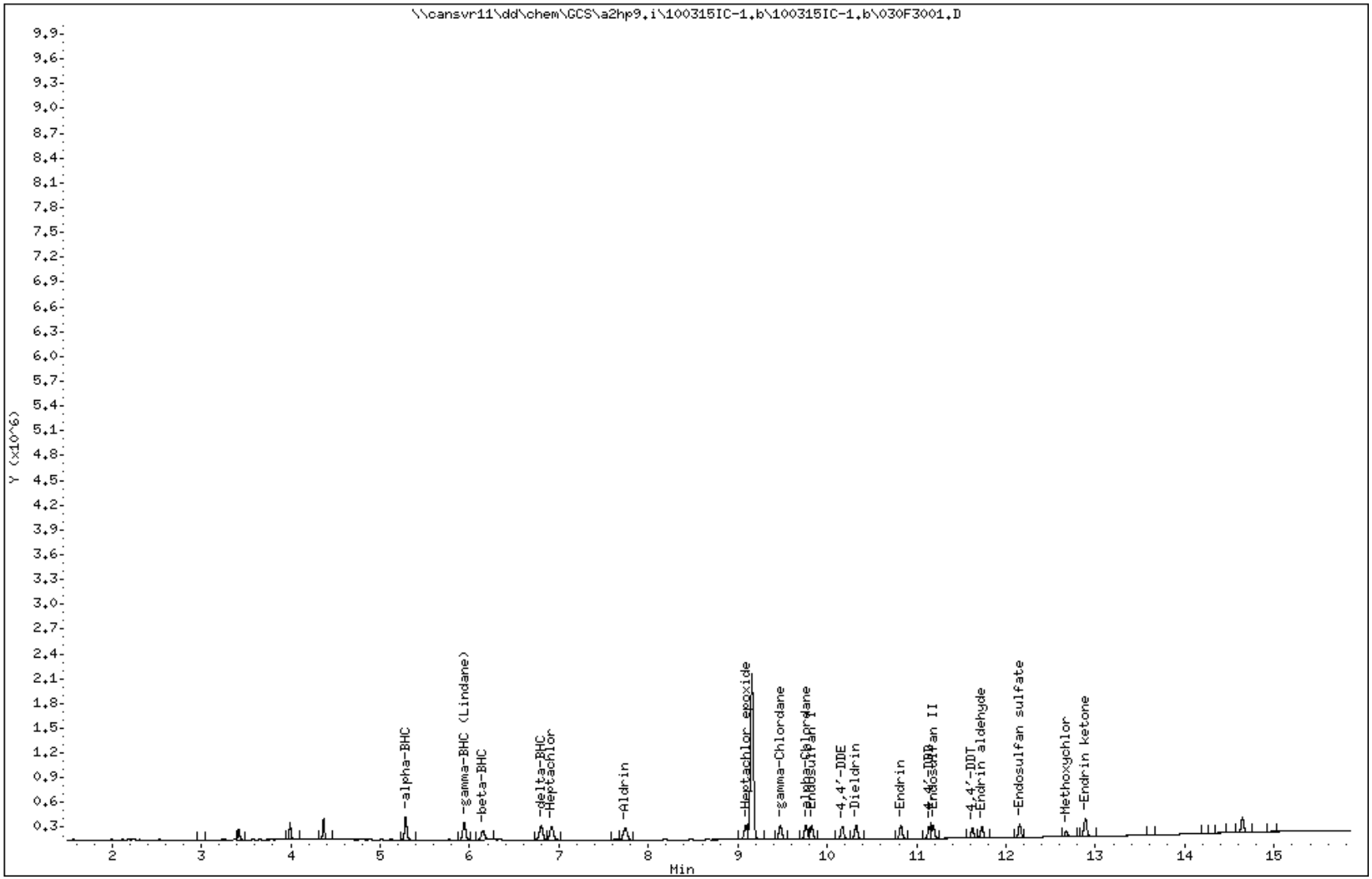
Sample Info: MRL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 15-MAR-2010 23:51
Lab File ID: 039F3901.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: TOX3 G268 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
23 Toxaphene(1)	1348963	1310012	1310012	0.010	2.88751	15.00000	Averaged
(2)	636269	598490	598490	0.010	5.93751	15.00000	Averaged
(3)	1258482	1202001	1202001	0.010	4.48804	15.00000	Averaged
(4)	1158548	1103977	1103977	0.010	4.71025	15.00000	Averaged
(5)	563226	530103	530103	0.010	5.88095	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.78085
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\039F3901.D
Lab Smp Id: TOX3 G268
Inj Date : 15-MAR-2010 23:51
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX3 G268,,2
Misc Info : 16-TOXAPH.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 07:58 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.332	11.332	0.000	1310012	1.00000	0.9711	80.00- 120.00	100.00
11.445	11.445	0.000	598490	1.00000	0.9406	114.04- 154.04	45.69
11.744	11.744	0.000	1202001	1.00000	0.9551	115.64- 155.64	91.75
12.489	12.489	0.000	1103977	1.00000	0.9529	52.78- 92.78	84.27
12.862	12.862	0.000	530103	1.00000	0.9412	69.36- 109.36	40.47
		Average of Peak Amounts =			0.95218		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\039F3901.D

Date : 15-MAR-2010 23:51

Client ID:

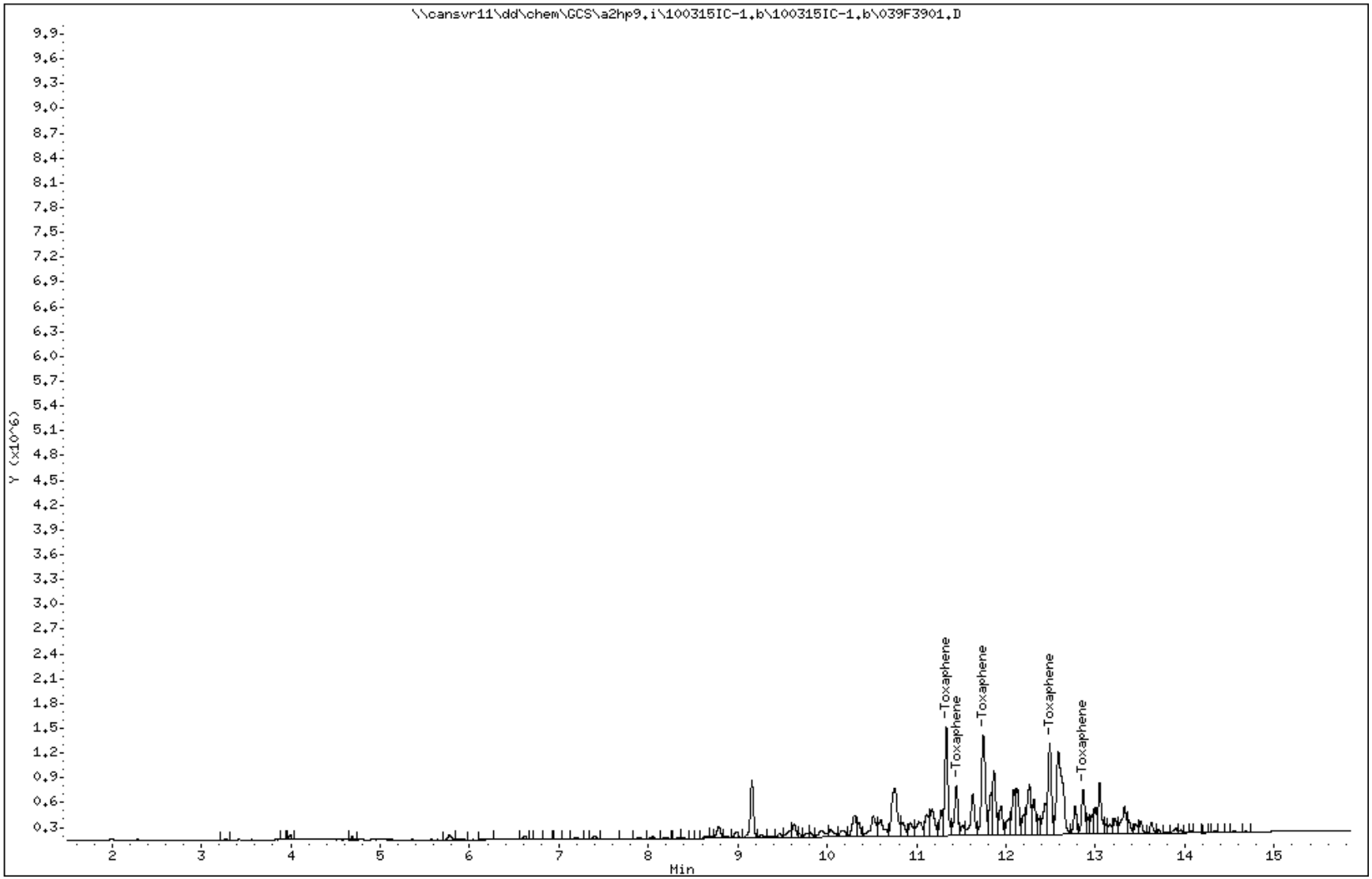
Instrument: a2hp9.i

Sample Info: TOX3 G268,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 23:51
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/039F3901.D
Lab Sample ID: TOX3 G268
Misc. Info: 16-TOXAPH.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.332	3272641	0.971	0.971

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp9.i Injection Date: 16-MAR-2010 00:15
Lab File ID: 040F4001.D Init. Cal. Date(s): 09-MAR-2010 15-MAR-2010
Analysis Type: Init. Cal. Times: 09:45 14:41
Lab Sample ID: AB3 G252 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	48900426	48342800	48342800	0.000	1.14033	15.00000	Averaged
4 alpha-BHC	107670684	107779400	107779400	0.010	-0.10097	15.00000	Averaged
5 gamma-BHC (Lindane)	98347928	98207200	98207200	0.010	0.14309	15.00000	Averaged
6 beta-BHC	18332186	18448840	18448840	0.010	-0.63634	15.00000	Averaged
7 delta-BHC	98057548	98205880	98205880	0.010	-0.15127	15.00000	Averaged
8 Heptachlor	94940530	95351000	95351000	0.010	-0.43234	15.00000	Averaged
10 Aldrin	30014083	29843840	29843840	0.010	0.56721	15.00000	Averaged
12 Heptachlor epoxide	81103319	81294120	81294120	0.010	-0.23526	15.00000	Averaged
13 gamma-Chlordane	81149805	80665640	80665640	0.010	0.59663	15.00000	Averaged
14 alpha-Chlordane	79210359	79446360	79446360	0.010	-0.29794	15.00000	Averaged
15 Endosulfan I	74347394	74947080	74947080	0.010	-0.80660	15.00000	Averaged
16 4,4'-DDE	33013501	32933600	32933600	0.010	0.24202	15.00000	Averaged
17 Dieldrin	76819176	76093360	76093360	0.010	0.94484	15.00000	Averaged
18 Endrin	70247174	69831760	69831760	0.010	0.59136	15.00000	Averaged
21 4,4'-DDD	29466884	30534240	30534240	0.010	-3.62222	15.00000	Averaged
22 Endosulfan II	32303936	32138640	32138640	0.010	0.51169	15.00000	Averaged
24 4,4'-DDT	25436776	24311840	24311840	0.010	4.42248	15.00000	Averaged
25 Endrin aldehyde	54259043	53863880	53863880	0.010	0.72829	15.00000	Averaged
26 Endosulfan sulfate	29982247	29686560	29686560	0.010	0.98621	15.00000	Averaged
27 Methoxychlor	26422638	26322320	26322320	0.010	0.37967	15.00000	Averaged
29 Endrin ketone	69615319	72015840	72015840	0.010	-3.44827	15.00000	Averaged
$ 30 Decachlorobiphenyl	64117263	65723080	65723080	0.010	-2.50450	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.06771
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\040F4001.D
Lab Smp Id: AB3 G252
Inj Date : 16-MAR-2010 00:15
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB3 G252,,2
Misc Info : 1-AB.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 07:58 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.367	4.367	0.000	1208570	0.02500	0.02471		
4 alpha-BHC					CAS #: 319-84-6		
5.285	5.285	0.000	2694485	0.02500	0.02502		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.939	5.939	0.000	2455180	0.02500	0.02496		
6 beta-BHC					CAS #: 319-85-7		
6.145	6.145	0.000	461221	0.02500	0.02516		
7 delta-BHC					CAS #: 319-86-8		
6.801	6.801	0.000	2455147	0.02500	0.02504		
8 Heptachlor					CAS #: 76-44-8		
6.917	6.917	0.000	2383775	0.02500	0.02511		
10 Aldrin					CAS #: 309-00-2		
7.743	7.743	0.000	746096	0.02500	0.02486		
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.089	9.089	0.000	2032353	0.02500	0.02506		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.476	9.476	0.000	2016641	0.02500	0.02485		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.761	9.761	0.000	1986159	0.02500	0.02507		

```
--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.825    9.825    0.000         1873677 0.02500  0.02520
--------------------------------------------------------------------------------
```

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
16 4,4'-DDE						CAS #: 72-55-9		
10.168	10.168	0.000	823340	0.02500	0.02494			
17 Dieldrin						CAS #: 60-57-1		
10.323	10.323	0.000	1902334	0.02500	0.02476			
18 Endrin						CAS #: 72-20-8		
10.824	10.824	0.000	1745794	0.02500	0.02485			
21 4,4'-DDD						CAS #: 72-54-8		
11.141	11.141	0.000	763356	0.02500	0.02590			
22 Endosulfan II						CAS #: 33213-65-9		
11.185	11.185	0.000	803466	0.02500	0.02487			
24 4,4'-DDT						CAS #: 50-29-3		
11.624	11.624	0.000	607796	0.02500	0.02389			
25 Endrin aldehyde						CAS #: 7421-93-4		
11.731	11.731	0.000	1346597	0.02500	0.02482			
26 Endosulfan sulfate						CAS #: 1031-07-8		
12.154	12.154	0.000	742164	0.02500	0.02475			
27 Methoxychlor						CAS #: 72-43-5		
12.673	12.673	0.000	658058	0.02500	0.02490			
29 Endrin ketone						CAS #: 53494-70-5		
12.892	12.892	0.000	1800396	0.02500	0.02586			
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3		
14.644	14.644	0.000	1643077	0.02500	0.02563			

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\040F4001.D

Date : 16-MAR-2010 00:15

Client ID:

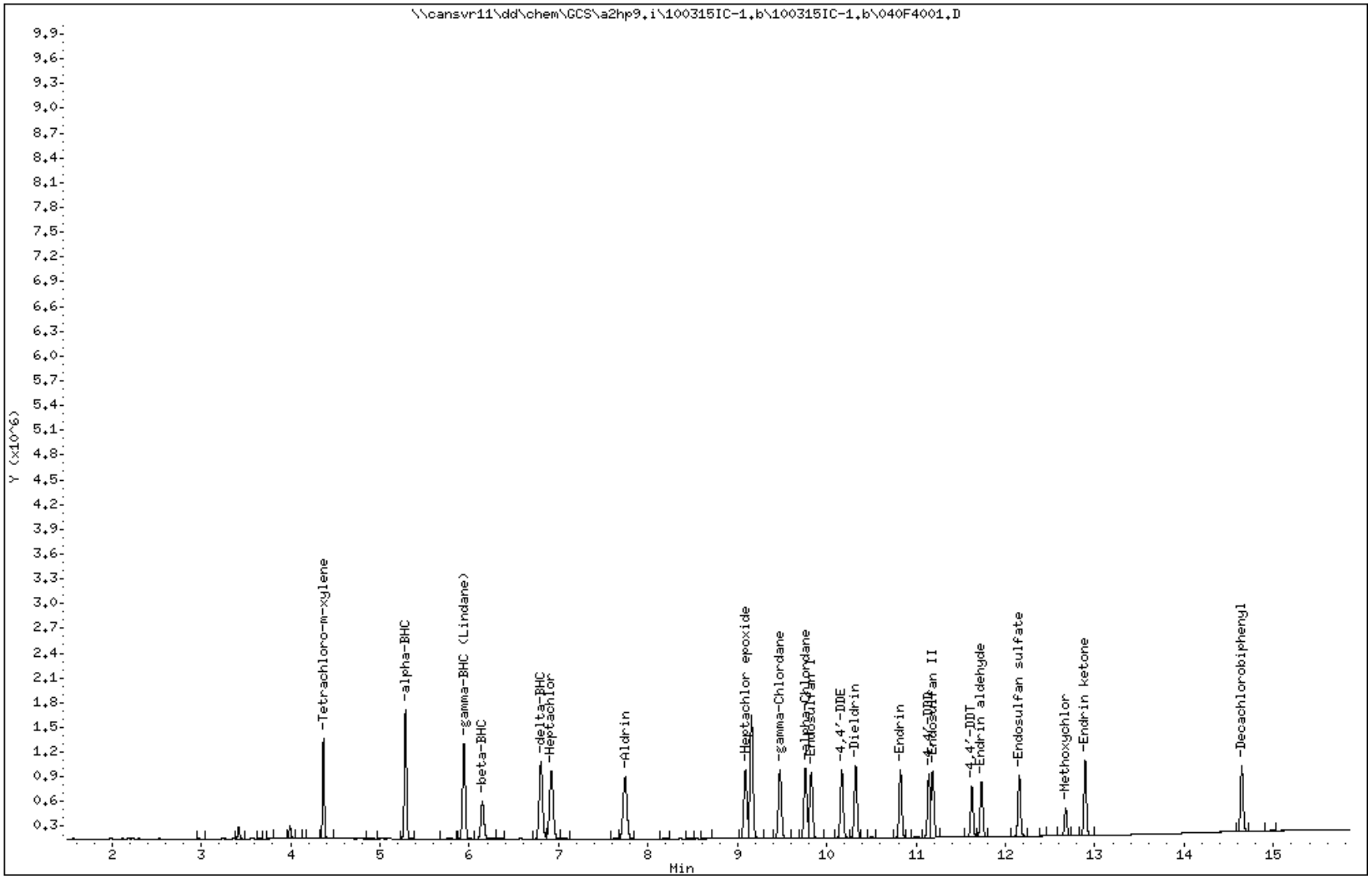
Instrument: a2hp9.i

Sample Info: AB3 G252,,2

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 00:15
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/040F4001.D
Lab Sample ID: AB3 G252
Misc. Info: 1-AB.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.367	1639062	0.025	0.025
4) alpha-BHC	5.286	2694485	0.025	0.025
5) gamma-BHC (Lindane)	5.940	2455180	0.025	0.025
6) beta-BHC	6.146	1149638	0.025	0.025
7) delta-BHC	6.802	2455147	0.025	0.025
8) Heptachlor	6.917	2383775	0.025	0.025
10) Aldrin	7.743	2258307	0.025	0.025
12) Heptachlor epoxide	9.090	2032353	0.025	0.025
13) gamma-Chlordane	9.477	2016641	0.025	0.025
14) alpha-Chlordane	9.762	1986159	0.025	0.025
15) Endosulfan I	9.826	1873677	0.025	0.025
16) 4,4'-DDE	10.168	1816606	0.025	0.025
17) Dieldrin	10.323	1902334	0.025	0.025
18) Endrin	10.825	1745794	0.025	0.025
21) 4,4'-DDD	11.142	1512221	0.026	0.026
22) Endosulfan II	11.186	1713490	0.025	0.025
24) 4,4'-DDT	11.625	1200436	0.024	0.024
25) Endrin aldehyde	11.732	1346597	0.025	0.025
26) Endosulfan sulfate	12.155	1494608	0.025	0.025
27) Methoxychlor	12.673	658058	0.025	0.025
29) Endrin ketone	12.892	1800396	0.026	0.026
30) Decachlorobiphenyl	14.644	1643077	0.026	0.026

Report Date: 16-Mar-2010 07:58

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00713
Sample Matrix: LIQUID Fraction: Pesticides
Lab Smp Id: MRL
Level: LOW Operator: 093905
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: mrl.sub
Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
4 alpha-BHC	0.005000	0.004692	93.84	70-130
5 gamma-BHC (Lindane	0.005000	0.004898	97.96	70-130
6 beta-BHC	0.005000	0.005682	113.65	70-130
7 delta-BHC	0.005000	0.004771	95.42	70-130
8 Heptachlor	0.005000	0.005211	104.22	70-130
10 Aldrin	0.005000	0.004861	97.22	70-130
12 Heptachlor epoxide	0.005000	0.005314	106.27	70-130
13 gamma-Chlordane	0.005000	0.005160	103.21	70-130
14 alpha-Chlordane	0.005000	0.005258	105.16	70-130
15 Endosulfan I	0.005000	0.005271	105.41	70-130
16 4,4'-DDE	0.005000	0.004906	98.12	70-130
17 Dieldrin	0.005000	0.005044	100.88	70-130
18 Endrin	0.005000	0.005024	100.49	70-130
21 4,4'-DDD	0.005000	0.004999	99.99	70-130
22 Endosulfan II	0.005000	0.005255	105.10	70-130
24 4,4'-DDT	0.005000	0.004553	91.07	70-130
25 Endrin aldehyde	0.005000	0.005484	109.69	70-130
26 Endosulfan sulfate	0.005000	0.005337	106.74	70-130
27 Methoxychlor	0.005000	0.005209	104.18	70-130
29 Endrin ketone	0.005000	0.005674	113.49	70-130

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\041F4101.D
Lab Smp Id: MRL
Inj Date : 16-MAR-2010 00:38
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 07:58 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 41 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mrl.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1.000	Volume of final extract (uL)
Vo	1.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/L)	TARGET RANGE	RATIO
4 alpha-BHC						CAS #: 319-84-6	
5.286	5.285	0.001	505170	0.00469	0.004692		
55 DDD/Endosulfan II						CAS #: 72-54-8/332-65-	

Peaks not detected for Quant. or Qual. signal(s).

5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.939	5.939	0.000	481716	0.00490	0.004898		
6 beta-BHC						CAS #: 319-85-7	
6.145	6.145	0.000	104170	0.00568	0.005682		
7 delta-BHC						CAS #: 319-86-8	
6.799	6.801	-0.002	467851	0.00477	0.004771		

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    8 Heptachlor                                    CAS #: 76-44-8
6.917    6.917    0.000          494747 0.00521  0.005211
--------------------------------------------------------------------------------
   10 Aldrin                                        CAS #: 309-00-2
7.741    7.743   -0.002          145896 0.00486  0.004861
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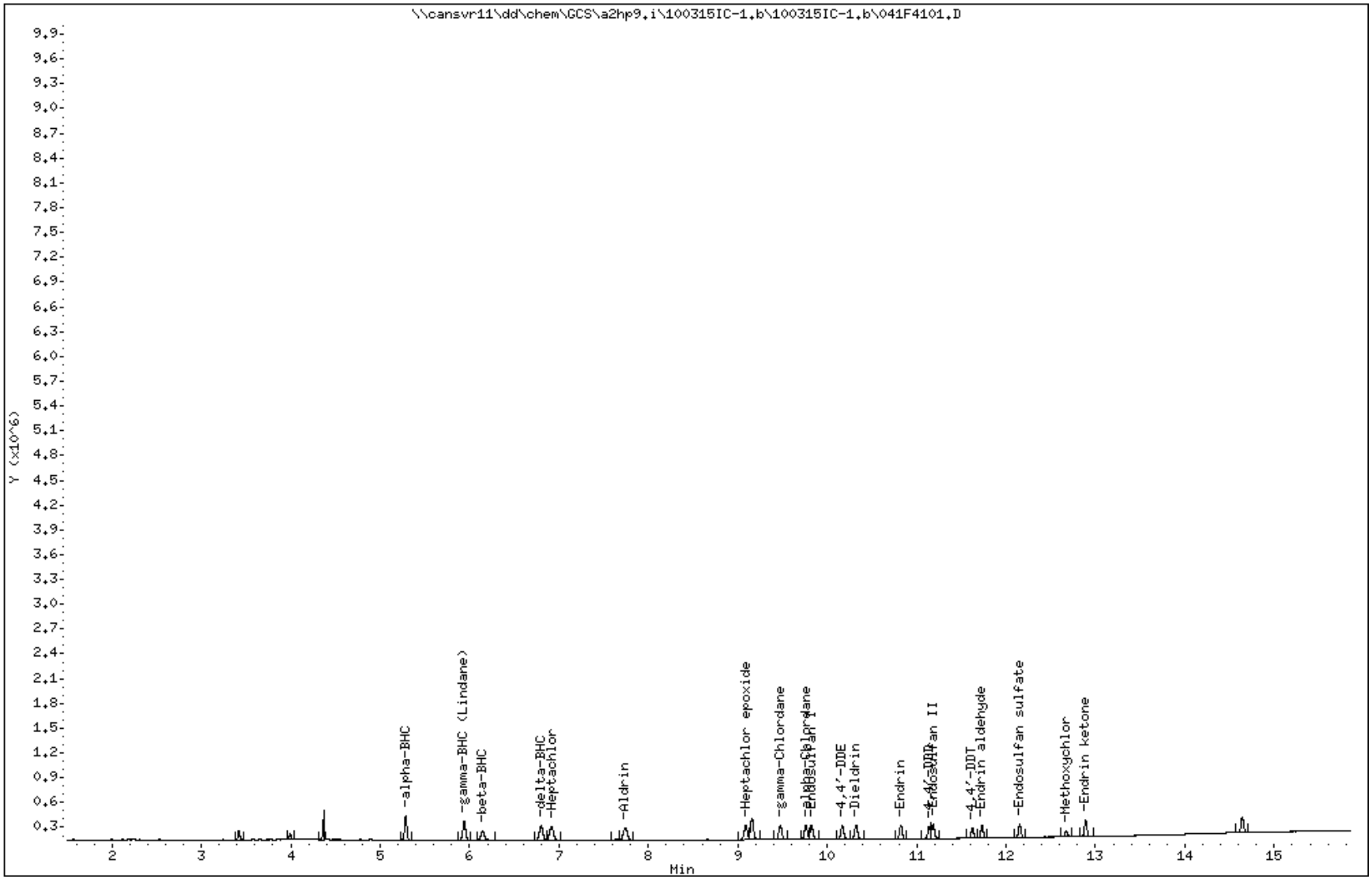
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.088	9.089	-0.001	430946	0.00531	0.005314		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.475	9.476	-0.001	418773	0.00516	0.005160		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.761	9.761	0.000	416488	0.00526	0.005258		
15 Endosulfan I					CAS #: 959-98-8		
9.824	9.825	-0.001	391856	0.00527	0.005271		
16 4,4'-DDE					CAS #: 72-55-9		
10.167	10.168	-0.001	161957	0.00491	0.004906		
17 Dieldrin					CAS #: 60-57-1		
10.322	10.323	-0.001	387482	0.00504	0.005044		
18 Endrin					CAS #: 72-20-8		
10.823	10.824	-0.001	352955	0.00502	0.005024		
21 4,4'-DDD					CAS #: 72-54-8		
11.140	11.141	-0.001	147316	0.00500	0.004999		
22 Endosulfan II					CAS #: 33213-65-9		
11.183	11.185	-0.002	169765	0.00526	0.005255		
24 4,4'-DDT					CAS #: 50-29-3		
11.622	11.624	-0.002	115823	0.00455	0.004553		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.730	11.731	-0.001	297577	0.00548	0.005484		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.152	12.154	-0.002	160012	0.00534	0.005337		
27 Methoxychlor					CAS #: 72-43-5		
12.672	12.673	-0.001	137640	0.00521	0.005209		
29 Endrin ketone					CAS #: 53494-70-5		
12.890	12.892	-0.002	395023	0.00567	0.005674		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\041F4101.D Page 1
Date : 16-MAR-2010 00:38
Client ID: Instrument: a2hp9.i
Sample Info: MRL
Volume Injected (uL): 1.0 Operator: 093905
Column phase: clp pesticides II Column diameter: 0.53



Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b/050F5001.D
Report Date: 03/16/2010

EVALB Degradation Report

Instrument ID: a2hp9.i Injection Date: 16-MAR-2010 04:24
Lab File ID: 050F5001.D Lab Sample ID: PEM E006
Analysis Type: NONE Method File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\P

4,4'-DDT Degradation

RT	Area	Compound
11.623	5116422	4,4'-DDT
10.168	29988	4,4'-DDE
11.140	438818	4,4'-DDD

Percent Degradation of 4,4'-DDT: 8.39

Endrin Degradation

RT	Area	Compound
10.824	3206815	Endrin
11.731	120315	Endrin aldehyde
12.889	263397	Endrin ketone

Percent Degradation of Endrin: 10.69

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\050F5001.D
Lab Smp Id: PEM E006
Inj Date : 16-MAR-2010 04:24
Operator : 093905 Inst ID: a2hp9.i
Smp Info : PEM E006
Misc Info : 12-PEM.SUB
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 08:00 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 50 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-PEM.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPGCSV23

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
4 alpha-BHC					CAS #: 319-84-6		
5.284	5.285	-0.001	987328	0.00917	0.009170		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
5.939	5.939	0.000	922267	0.00938	0.009378		
6 beta-BHC					CAS #: 319-85-7		
6.145	6.145	0.000	184211	0.01005	0.01005		
16 4,4'-DDE					CAS #: 72-55-9		
10.168	10.168	0.000	12714	4e-004	0.0003851		
18 Endrin					CAS #: 72-20-8		
10.823	10.824	-0.001	3206815	0.04565	0.04565		
21 4,4'-DDD					CAS #: 72-54-8		
11.139	11.141	-0.002	201560	0.00684	0.006840		
22 Endosulfan II					CAS #: 33213-65-9		

Peaks not detected for Quant. or Qual. signal(s).

24 4,4'-DDT					CAS #: 50-29-3		
11.623	11.624	-0.001	2604226	0.10238	0.1024		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.730	11.731	-0.001	120315	0.00222	0.002217		

```
   27 Methoxychlor                                CAS #: 72-43-5
12.672  12.673   -0.001         6533346 0.24726   0.2473
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
12.888	12.892	-0.004	263397	0.00378	0.003784		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\050F5001.D

Date : 16-MAR-2010 04:24

Client ID:

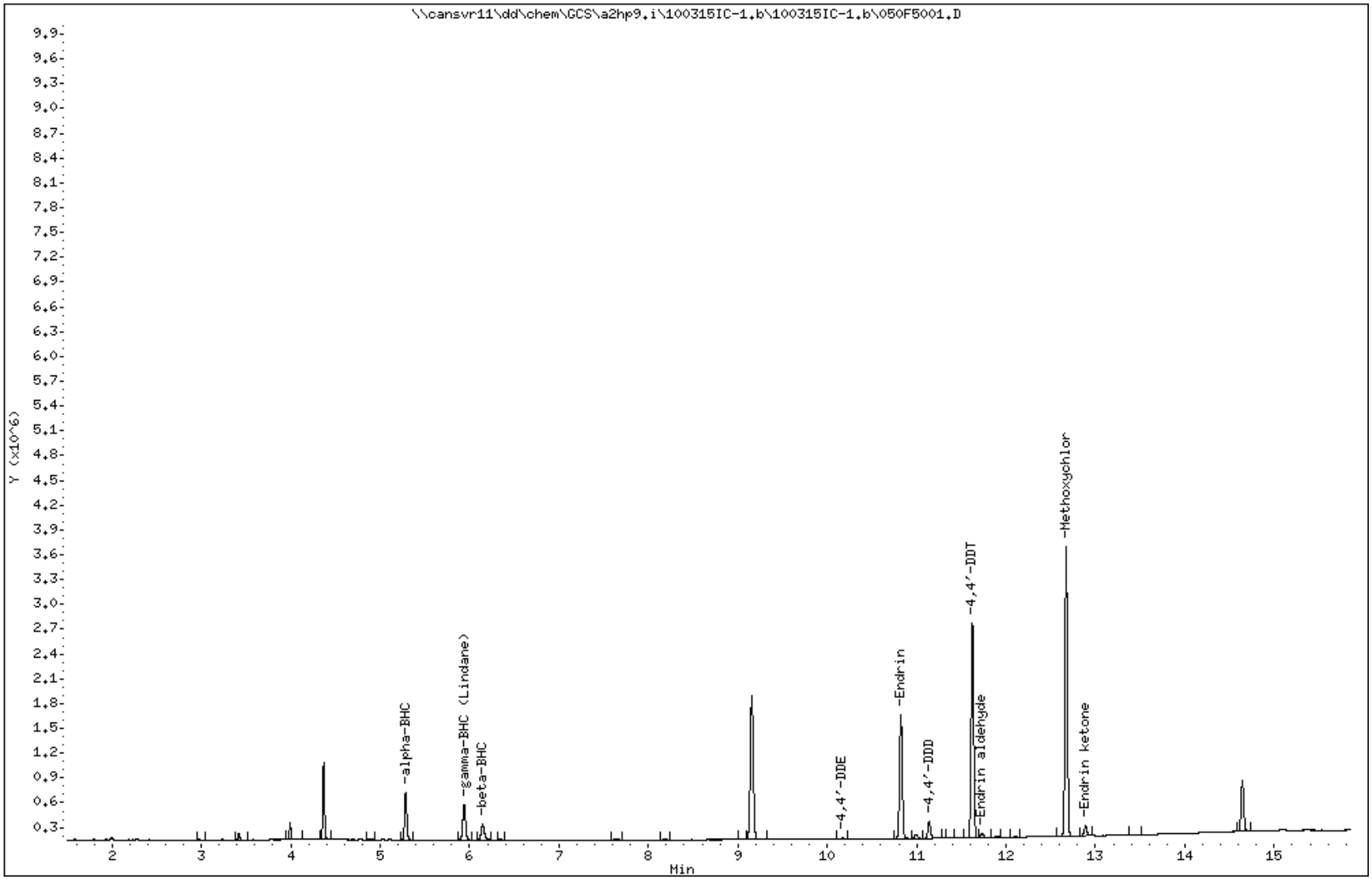
Instrument: a2hp9.i

Sample Info: PEM E006

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 16-MAR-2010 04:24
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/050F5001.D
Lab Sample ID: PEM E006
Misc. Info: 12-PEM.SUB
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
4) alpha-BHC	5.285	987328	0.009	0.009
5) gamma-BHC (Lindane)	5.940	922267	0.009	0.009
6) beta-BHC	6.146	471315	0.010	0.010
16) 4,4'-DDE	10.168	29988	0.000	0.000
18) Endrin	10.824	3206815	0.046	0.046
21) 4,4'-DDD	11.140	438818	0.007	0.007
22) Endosulfan II	NOT DETECTED	Expected RT = 11.186		
24) 4,4'-DDT	11.623	5116422	0.102	0.102
25) Endrin aldehyde	11.731	120315	0.002	0.002
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.155		
27) Methoxychlor	12.672	6533346	0.247	0.247
29) Endrin ketone	12.889	263397	0.004	0.004

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\007F0701.D
Lab Smp Id: AB 1 SOLID MDL
Inj Date : 07-JAN-2010 12:27
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB 1 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION   tv = 3.33 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.806	3.805	0.001	1063765	0.00921	0.09211		
4 alpha-BHC					CAS #: 319-84-6		
4.509	4.508	0.001	1592441	0.00848	2.826		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.934	4.933	0.001	1469492	0.00868	2.892		
6 beta-BHC					CAS #: 319-85-7		
5.082	5.081	0.001	371977	0.00922	3.072		
7 delta-BHC					CAS #: 319-86-8		
5.331	5.330	0.001	1428043	0.00875	2.916		
		Sum of Peak Concentrations =			2.916		
8 Heptachlor					CAS #: 76-44-8		
5.656	5.656	0.000	699967	0.00897	2.991		

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--------------------------------------------------------------------------------
   10 Aldrin                                      CAS #: 309-00-2
6.187    6.186    0.001         1727084 0.01059    3.529
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.634	7.631	0.003	446053	0.00942	3.139		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.934	7.932	0.002	452925	0.00884	2.946		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.246	8.243	0.003	534411	0.01016	3.387		
15 Endosulfan I						CAS #: 959-98-8	
8.501	8.499	0.002	451597	0.00918	3.060		
16 4,4'-DDE						CAS #: 72-55-9	
8.570	8.568	0.002	1195417	0.00852	2.839		
17 Dieldrin						CAS #: 60-57-1	
9.011	9.010	0.001	1301534	0.00889	2.963		
18 Endrin						CAS #: 72-20-8	
9.435	9.434	0.001	504131	0.00923	3.078		
20 4,4'-DDD						CAS #: 72-54-8	
9.747	9.746	0.001	969186	0.00920	3.067		
22 Endosulfan II						CAS #: 33213-65-9	
9.856	9.854	0.002	493635	0.00946	3.153		
23 4,4'-DDT						CAS #: 50-29-3	
10.236	10.234	0.002	1035447	0.00935	3.116		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.610	10.609	0.001	417604	0.00943	3.145		
27 Methoxychlor						CAS #: 72-43-5	
11.131	11.130	0.001	632752	0.01193	3.976		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.310	11.308	0.002	1152114	0.01069	3.563		
29 Endrin ketone						CAS #: 53494-70-5	
11.702	11.702	0.000	606860	0.00972	3.241		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.251	13.251	0.000	604969	0.01086	0.1086		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\007F0701.D

Date : 07-JAN-2010 12:27

Client ID:

Instrument: a2hp9.i

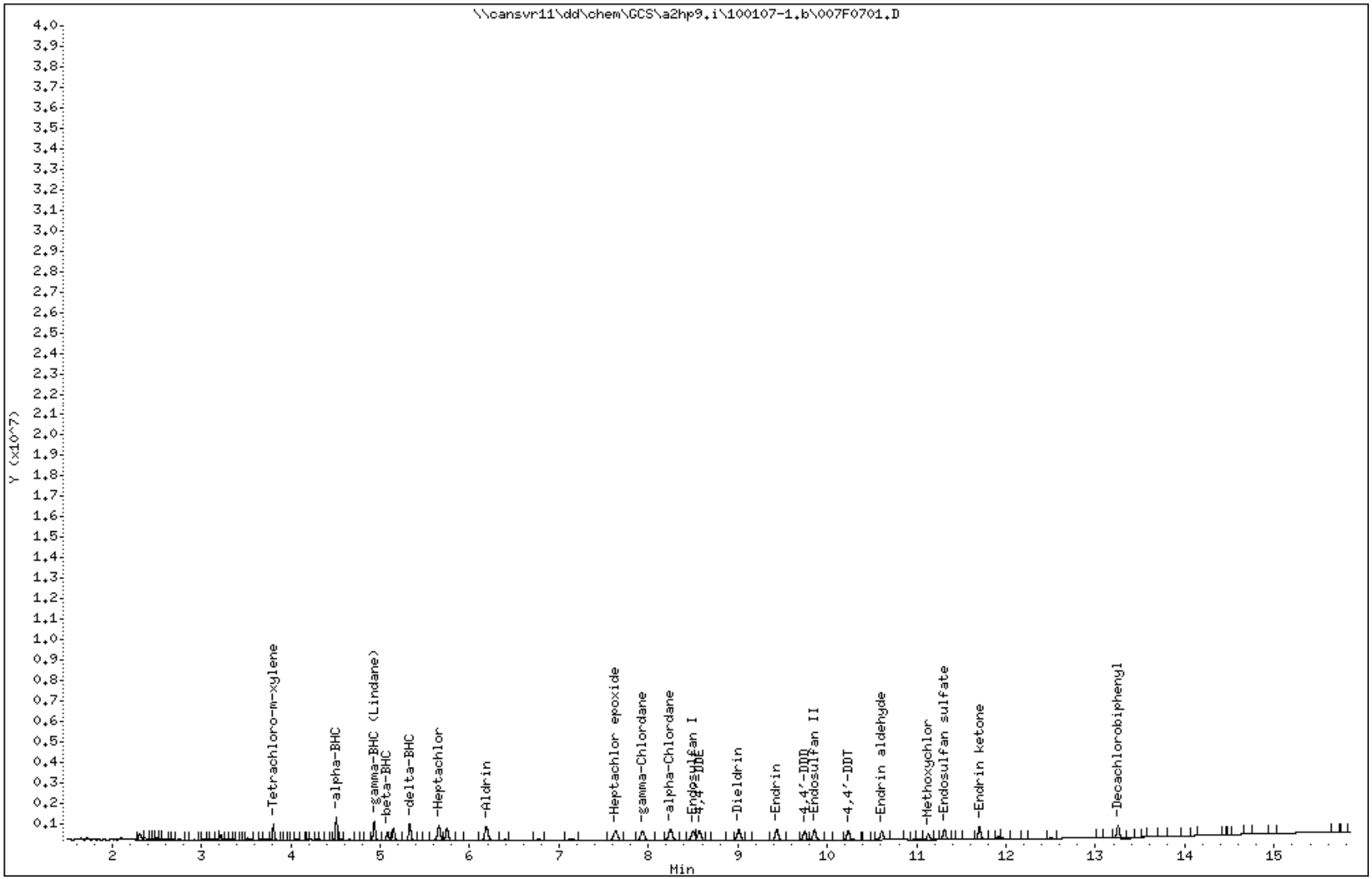
Sample Info: AB 1 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:27
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/007F0701.D
Lab Sample ID: AB 1 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.806	1063765	0.009	0.092 ug/Kg
4) alpha-BHC	4.509	1592441	0.008	2.826 ug/Kg
5) gamma-BHC (Lindane)	4.934	1469492	0.009	2.893 ug/Kg
6) beta-BHC	5.083	631210	0.009	3.072 ug/Kg
7) delta-BHC	5.332	1428043	0.009	2.916 ug/Kg
8) Heptachlor	5.657	1468108	0.009	2.991 ug/Kg
10) Aldrin	6.188	1727084	0.011	3.529 ug/Kg
12) Heptachlor epoxide	7.634	1370556	0.009	3.139 ug/Kg
13) gamma-Chlordane	7.934	1382896	0.009	2.946 ug/Kg
14) alpha-Chlordane	8.247	1540466	0.010	3.387 ug/Kg
15) Endosulfan I	8.501	1234650	0.009	3.060 ug/Kg
16) 4,4'-DDE	8.570	1195417	0.009	2.839 ug/Kg
17) Dieldrin	9.011	1301534	0.009	2.963 ug/Kg
18) Endrin	9.435	1240416	0.009	3.078 ug/Kg
20) 4,4'-DDD	9.748	969186	0.009	3.067 ug/Kg
22) Endosulfan II	9.857	1184811	0.009	3.153 ug/Kg
23) 4,4'-DDT	10.236	1035447	0.009	3.116 ug/Kg
25) Endrin aldehyde	10.610	957105	0.009	3.145 ug/Kg
27) Methoxychlor	11.131	632752	0.012	3.976 ug/Kg
28) Endosulfan sulfate	11.310	1152114	0.011	3.563 ug/Kg
29) Endrin ketone	11.703	1253356	0.010	3.241 ug/Kg
30) Decachlorobiphenyl	13.252	1422231	0.011	0.109 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\008F0801.D
Lab Smp Id: AB 0.4 SOLID MDL
Inj Date : 07-JAN-2010 12:52
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB 0.4 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.sub
Target Version: 4.14   Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.804	3.805	-0.001	451791	0.00391	0.03912		
4 alpha-BHC					CAS #: 319-84-6		
4.508	4.508	0.000	649306	0.00346	1.152		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		
4.933	4.933	0.000	612612	0.00362	1.206		
6 beta-BHC					CAS #: 319-85-7		
5.080	5.081	-0.001	160417	0.00397	1.325		
7 delta-BHC					CAS #: 319-86-8		
5.330	5.330	0.000	638937	0.00391	1.305		
		Sum of Peak Concentrations =			1.305		
8 Heptachlor					CAS #: 76-44-8		
5.656	5.656	0.000	253566	0.00325	1.083		

```
   10 Aldrin                                      CAS #: 309-00-2
6.184    6.186   -0.002          911028 0.00558    1.861
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.630	7.631	-0.001	164150	0.00347	1.155		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.931	7.932	-0.001	159904	0.00312	1.040		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.244	8.243	0.001	177080	0.00337	1.122		
15 Endosulfan I					CAS #: 959-98-8		
8.501	8.499	0.002	161080	0.00327	1.092		
16 4,4'-DDE					CAS #: 72-55-9		
8.569	8.568	0.001	435040	0.00310	1.033		
17 Dieldrin					CAS #: 60-57-1		
9.009	9.010	-0.001	465936	0.00318	1.061		
18 Endrin					CAS #: 72-20-8		
9.433	9.434	-0.001	184032	0.00337	1.123		
20 4,4'-DDD					CAS #: 72-54-8		
9.745	9.746	-0.001	347326	0.00330	1.099		
22 Endosulfan II					CAS #: 33213-65-9		
9.854	9.854	0.000	184841	0.00354	1.180		
23 4,4'-DDT					CAS #: 50-29-3		
10.234	10.234	0.000	366066	0.00330	1.102		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.609	10.609	0.000	161669	0.00365	1.217		
27 Methoxychlor					CAS #: 72-43-5		
11.130	11.130	0.000	288624	0.00544	1.814		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.308	11.308	0.000	537511	0.00499	1.662		
29 Endrin ketone					CAS #: 53494-70-5		
11.700	11.702	-0.002	219220	0.00351	1.171		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.250	13.251	-0.001	228496	0.00410	0.04100		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\008F0801.D

Date : 07-JAN-2010 12:52

Client ID:

Instrument: a2hp9.i

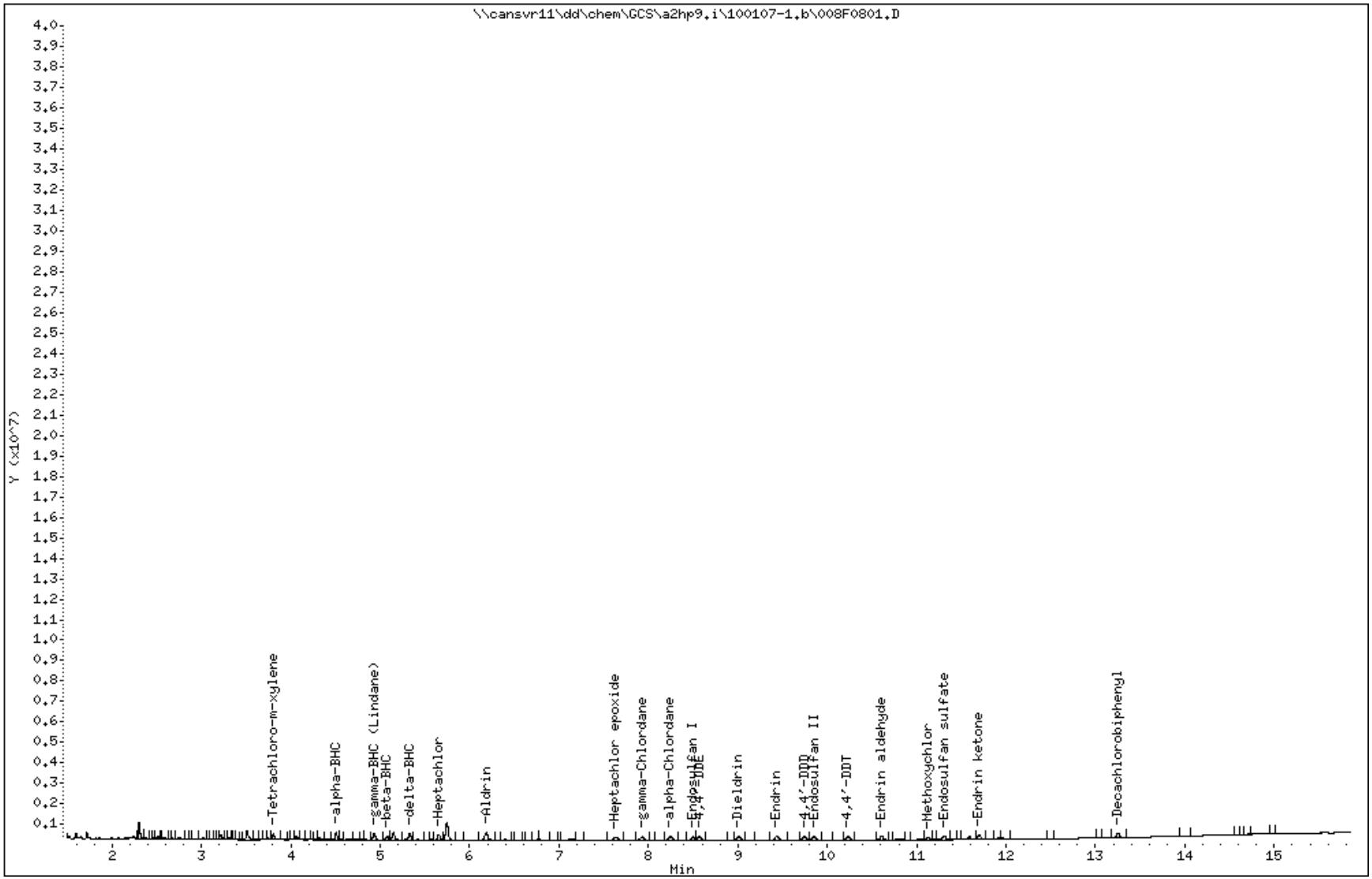
Sample Info: AB 0.4 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:52
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/008F0801.D
Lab Sample ID: AB 0.4 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.805	451791	0.004	0.000 ug/Kg
4) alpha-BHC	4.508	649306	0.003	0.001 ug/Kg
5) gamma-BHC (Lindane)	4.933	612612	0.004	0.001 ug/Kg
6) beta-BHC	5.081	317709	0.004	0.001 ug/Kg
7) delta-BHC	5.331	638937	0.004	0.001 ug/Kg
8) Heptachlor	5.657	547835	0.003	0.001 ug/Kg
10) Aldrin	6.185	911028	0.006	0.002 ug/Kg
12) Heptachlor epoxide	7.631	521587	0.003	0.001 ug/Kg
13) gamma-Chlordane	7.932	461549	0.003	0.001 ug/Kg
14) alpha-Chlordane	8.244	506457	0.003	0.001 ug/Kg
15) Endosulfan I	8.502	436284	0.003	0.001 ug/Kg
16) 4,4'-DDE	8.569	435040	0.003	0.001 ug/Kg
17) Dieldrin	9.010	465936	0.003	0.001 ug/Kg
18) Endrin	9.433	519259	0.003	0.001 ug/Kg
20) 4,4'-DDD	9.746	347326	0.003	0.001 ug/Kg
22) Endosulfan II	9.855	458072	0.004	0.001 ug/Kg
23) 4,4'-DDT	10.234	366066	0.003	0.001 ug/Kg
25) Endrin aldehyde	10.609	380051	0.004	0.001 ug/Kg
27) Methoxychlor	11.131	288624	0.005	0.002 ug/Kg
28) Endosulfan sulfate	11.308	537511	0.005	0.002 ug/Kg
29) Endrin ketone	11.701	463175	0.004	0.001 ug/Kg
30) Decachlorobiphenyl	13.251	508710	0.004	0.000 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\009F0901.D
Lab Smp Id: AB 0.2 SOLID MDL
Inj Date : 07-JAN-2010 13:17
Operator : 093905   Inst ID: a2hp9.i
Smp Info : AB 0.2 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 1-AB.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.804	3.805	-0.001	469225	0.00406	0.04063		
4 alpha-BHC						CAS #: 319-84-6	
4.509	4.508	0.001	401053	0.00214	0.7118		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.933	4.933	0.000	326880	0.00193	0.6434		
6 beta-BHC						CAS #: 319-85-7	
5.081	5.081	0.000	86022	0.00213	0.7105		
7 delta-BHC						CAS #: 319-86-8	
5.329	5.330	-0.001	304248	0.00186	0.6213		
Sum of Peak Concentrations =					0.6213		
8 Heptachlor						CAS #: 76-44-8	
5.656	5.656	0.000	139280	0.00179	0.5951		

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   10 Aldrin                                      CAS #: 309-00-2
6.184    6.186   -0.002          689555 0.00423    1.409
--------------------------------------------------------------------------------
```

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.631	7.631	0.000	91232	0.00193	0.6421		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.931	7.932	-0.001	90491	0.00177	0.5886		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.243	8.243	0.000	98753	0.00188	0.6258		
15 Endosulfan I						CAS #: 959-98-8	
8.499	8.499	0.000	86076	0.00175	0.5833		
16 4,4'-DDE						CAS #: 72-55-9	
8.569	8.568	0.001	235325	0.00168	0.5589		
17 Dieldrin						CAS #: 60-57-1	
9.009	9.010	-0.001	262196	0.00179	0.5969		
18 Endrin						CAS #: 72-20-8	
9.434	9.434	0.000	105844	0.00194	0.6462		
20 4,4'-DDD						CAS #: 72-54-8	
9.746	9.746	0.000	197814	0.00188	0.6260		
22 Endosulfan II						CAS #: 33213-65-9	
9.854	9.854	0.000	101655	0.00195	0.6492		
23 4,4'-DDT						CAS #: 50-29-3	
10.233	10.234	-0.001	191754	0.00173	0.5770		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.607	10.609	-0.002	91878	0.00208	0.6918		
27 Methoxychlor						CAS #: 72-43-5	
11.130	11.130	0.000	107409	0.00202	0.6749		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.308	11.308	0.000	277244	0.00257	0.8574		
29 Endrin ketone						CAS #: 53494-70-5	
11.701	11.702	-0.001	123943	0.00199	0.6619		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.250	13.251	-0.001	124619	0.00224	0.02236		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\009F0901.D

Date : 07-JAN-2010 13:17

Client ID:

Instrument: a2hp9.i

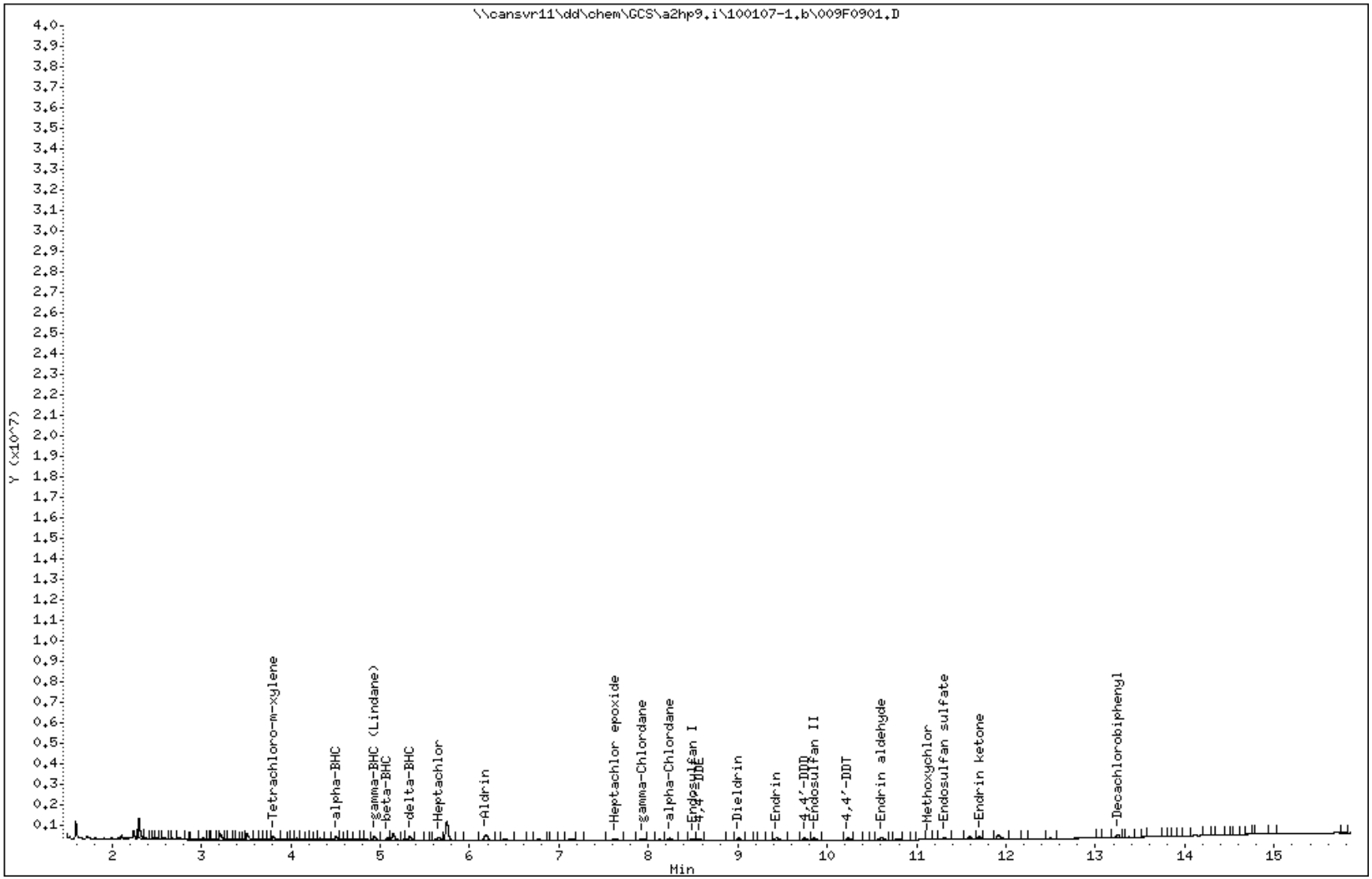
Sample Info: AB 0.2 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/009F0901.D
Lab Sample ID: AB 0.2 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.804	469225	0.004	0.041 ug/Kg
4) alpha-BHC	4.509	401053	0.002	0.712 ug/Kg
5) gamma-BHC (Lindane)	4.933	326880	0.002	0.643 ug/Kg
6) beta-BHC	5.082	160944	0.002	0.710 ug/Kg
7) delta-BHC	5.330	304248	0.002	0.621 ug/Kg
8) Heptachlor	5.657	324223	0.002	0.595 ug/Kg
10) Aldrin	6.184	689555	0.004	1.409 ug/Kg
12) Heptachlor epoxide	7.632	305092	0.002	0.642 ug/Kg
13) gamma-Chlordane	7.932	265281	0.002	0.589 ug/Kg
14) alpha-Chlordane	8.243	280665	0.002	0.626 ug/Kg
15) Endosulfan I	8.500	229950	0.002	0.583 ug/Kg
16) 4,4'-DDE	8.569	235325	0.002	0.559 ug/Kg
17) Dieldrin	9.010	262196	0.002	0.597 ug/Kg
18) Endrin	9.434	314359	0.002	0.646 ug/Kg
20) 4,4'-DDD	9.747	197814	0.002	0.626 ug/Kg
22) Endosulfan II	9.855	243878	0.002	0.649 ug/Kg
23) 4,4'-DDT	10.233	191754	0.002	0.577 ug/Kg
25) Endrin aldehyde	10.607	248090	0.002	0.692 ug/Kg
27) Methoxychlor	11.131	107409	0.002	0.675 ug/Kg
28) Endosulfan sulfate	11.308	277244	0.003	0.857 ug/Kg
29) Endrin ketone	11.702	246837	0.002	0.662 ug/Kg
30) Decachlorobiphenyl	13.251	260449	0.002	0.022 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\010F1001.D
Lab Smp Id: TC SOLID MDL
Inj Date : 07-JAN-2010 13:42
Operator : 093905   Inst ID: a2hp9.i
Smp Info : TC SOLID MDL
Misc Info : SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 15-TECHLOR.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE		RATIO
9 Tech Chlordane					CAS #: 57-74-9			
5.524	5.524	0.000	37726	0.01347	4.490	0.00-	20.00	100.00
6.530	6.529	0.001	40920	0.01627	5.423	0.00-	20.00	108.47
7.930	7.932	-0.002	69458	0.01245	4.151	0.00-	20.00	184.11
8.240	8.239	0.001	113512	0.01307	4.357	0.00-	20.00	300.89
		Average of Peak Concentrations =			4.605			

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\010F1001.D

Date : 07-JAN-2010 13:42

Client ID:

Instrument: a2hp9.i

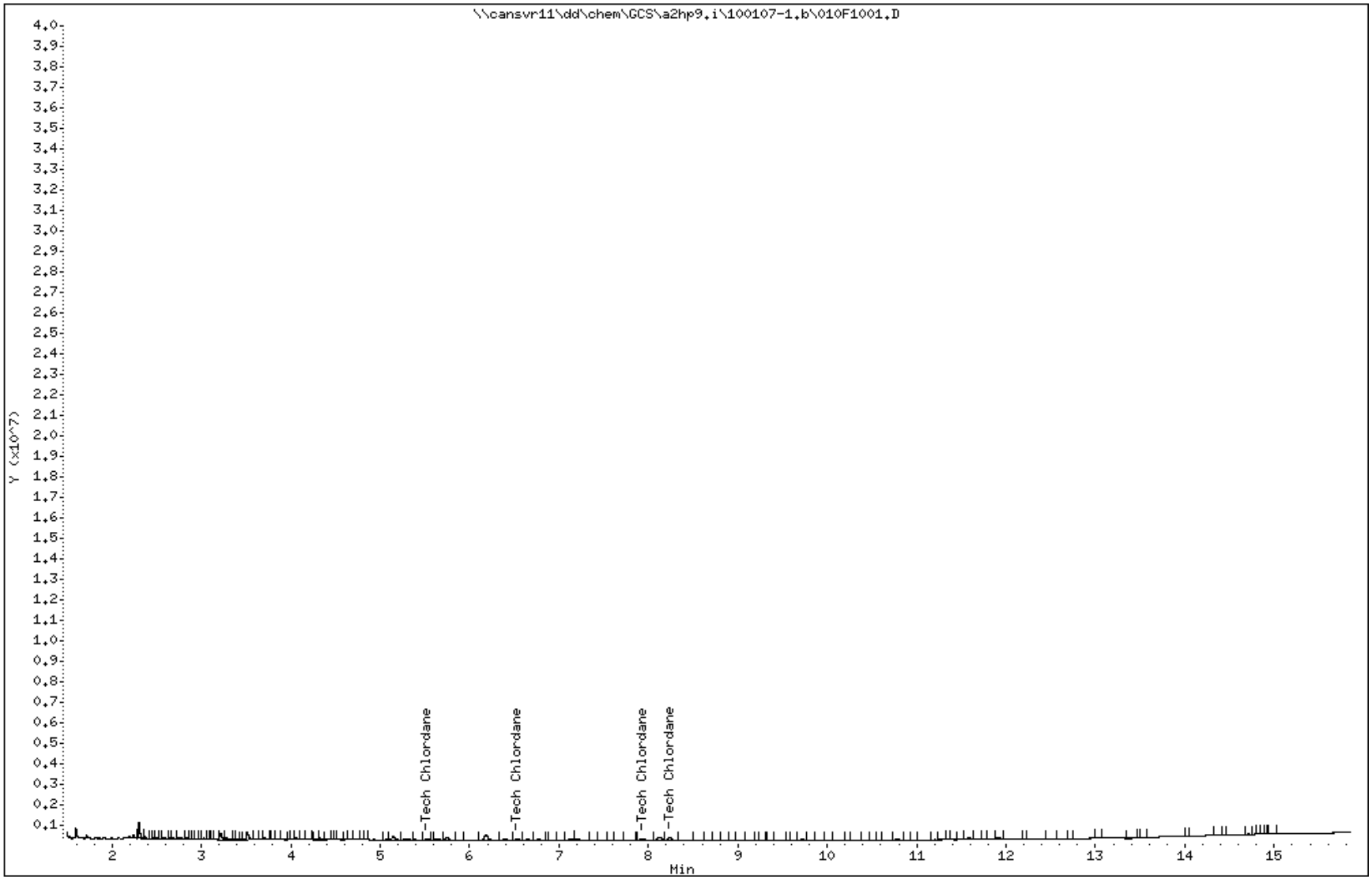
Sample Info: TC SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 13:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/010F1001.D
Lab Sample ID: TC SOLID MDL
Misc. Info: SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
9) Tech Chlordane	5.524	74444	0.013	4.490 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\012F1201.D
Lab Smp Id: MDL SOLID BLK
Inj Date : 07-JAN-2010 14:32
Operator : 093905   Inst ID: a2hp9.i
Smp Info : MDL SOLID BLK
Misc Info : SOLID MDL BLANK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Meth Date : 11-Jan-2010 06:33 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 19-pestap9.sub
Target Version: 4.14   Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.792	3.805	-0.013	216281	0.00187	0.01873		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.286	4.285	0.001	47102	4e-004	0.1244		
		Average of Peak Concentrations =			0.1244		
3 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC						CAS #: 319-84-6	
4.496	4.508	-0.012	47898	3e-004	0.08501		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	

Peaks not detected for Quant. or Qual. signal(s).

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    6 beta-BHC                                    CAS #: 319-85-7
5.072    5.081   -0.009           13017  3e-004   0.1075
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RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
5.311	5.330	-0.019	41823	3e-004	0.08540		
		Sum of Peak Concentrations =			0.08540		
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
5.527	5.524	0.003	6717	0.00240	0.7994	0.00- 20.00	100.00
6.544	6.529	0.015	12620	0.00502	1.672	0.00- 20.00	187.88
0.000	7.932	-7.932	0	0.0000	0.0000	0.00- 20.00	0.00
8.254	8.239	0.015	11332	0.00130	0.4350	0.00- 20.00	168.71
		Average of Peak Concentrations =			0.9690		
10 Aldrin					CAS #: 309-00-2		
6.181	6.186	-0.005	203877	0.00125	0.4166		
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.254	8.243	0.011	11332	2e-004	0.07182		
15 Endosulfan I					CAS #: 959-98-8		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
8.541	8.568	-0.027	44912	0.00032	0.1067		
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							
18 Endrin					CAS #: 72-20-8		

Peaks not detected for Quant. or Qual. signal(s).

19	Kepone				CAS #: 143-50-0	
9.482	9.491	-0.009		50247	0.09888	32.96

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

20 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 Toxaphene CAS #: 8001-35-2

0.000	9.975	-9.975	0	0.0000	0.0000	80.00- 120.00	0.00
0.000	10.407	-10.407	0	0.0000	0.0000	114.04- 154.04	0.00
10.575	10.554	0.021	10096	0.00684	2.279	115.64- 155.64	0.00
0.000	11.116	-11.116	0	0.0000	0.0000	52.78- 92.78	0.00
11.204	11.219	-0.015	5025	0.00266	0.8872	69.36- 109.36	0.00

Average of Peak Concentrations = 1.583

---

23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Mirex CAS #: 2385-85-5

10.788	10.813	-0.025	16702				

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

11.282	11.308	-0.026	26640	2e-004	0.08239		

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\012F1201.D

Date : 07-JAN-2010 14:32

Client ID:

Instrument: a2hp9.i

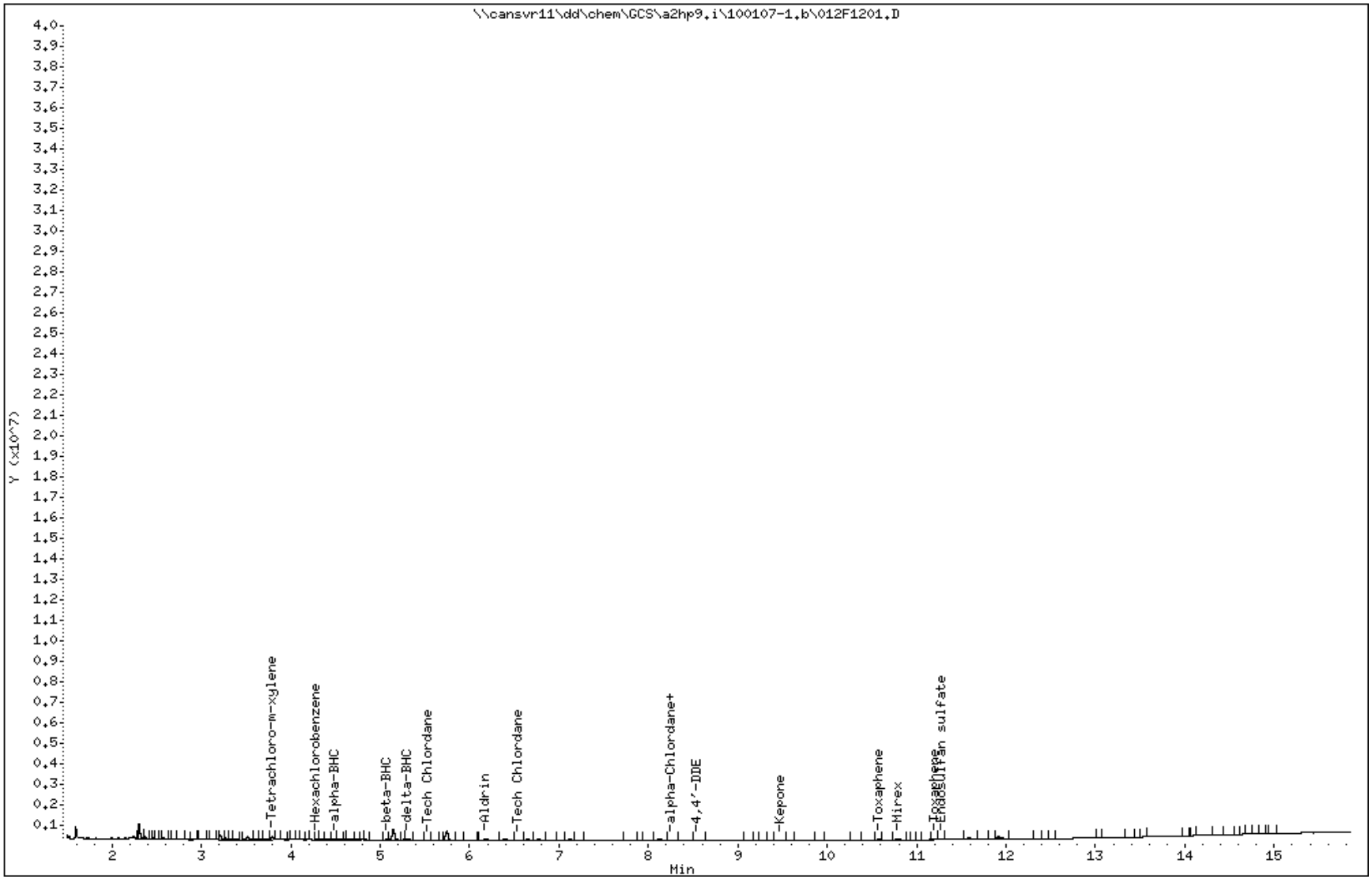
Sample Info: MDL SOLID BLK

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 14:32
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/012F1201.D
Lab Sample ID: MDL SOLID BLK
Misc. Info: SOLID MDL BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	0.000	0	0.000	0.000 ug/Kg
1) Tetrachloro-m-xylene	3.792	216281	0.002	0.000 ug/Kg
2) Hexachlorobenzene	4.287	87515	0.000	0.000 ug/Kg
3) Diallate	NOT DETECTED	Expected RT = 4.369		
4) alpha-BHC	4.497	47898	0.000	0.000 ug/Kg
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 4.933		
6) beta-BHC	5.072	31731	0.000	0.000 ug/Kg
7) delta-BHC	5.312	41823	0.000	0.000 ug/Kg
9) Tech Chlordane	5.527	14175	0.002	0.001 ug/Kg
8) Heptachlor	NOT DETECTED	Expected RT = 5.656		
10) Aldrin	6.182	203877	0.001	0.000 ug/Kg
11) Isodrin	NOT DETECTED	Expected RT = 6.883		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 7.631		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 7.932		
14) alpha-Chlordane	8.254	33736	0.000	0.000 ug/Kg
15) Endosulfan I	NOT DETECTED	Expected RT = 8.500		
16) 4,4'-DDE	8.542	44912	0.000	0.000 ug/Kg
17) Dieldrin	NOT DETECTED	Expected RT = 9.011		
18) Endrin	NOT DETECTED	Expected RT = 9.435		
19) Kepone	9.482	50247	0.099	0.033 ug/Kg
20) 4,4'-DDD	NOT DETECTED	Expected RT = 9.746		
21) Chlorobenzilate	NOT DETECTED	Expected RT = 9.834		
22) Endosulfan II	NOT DETECTED	Expected RT = 9.855		
23) 4,4'-DDT	NOT DETECTED	Expected RT = 10.235		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 10.610		
26) Mirex	10.788	54368	0.000	0.000 ug/Kg
27) Methoxychlor	NOT DETECTED	Expected RT = 11.131		
28) Endosulfan sulfate	11.282	26640	0.000	0.000 ug/Kg
29) Endrin ketone	NOT DETECTED	Expected RT = 11.702		
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 13.251		

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\009F0901.D
Lab Smp Id: TOX SOLID MDL
Inj Date : 14-JAN-2010 12:22
Operator : 093905   Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL
Misc Info : TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Meth Date : 15-Jan-2010 12:35 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 16-toxaph.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Toxaphene						CAS #: 8001-35-2	
9.971	9.971	0.000	55736	0.03318	11.06	80.00- 120.00	100.00(M)
10.404	10.403	0.001	50384	0.03145	10.48	114.04- 154.04	90.40
10.550	10.549	0.001	46785	0.03168	10.56	115.64- 155.64	83.94
11.111	11.113	-0.002	73349	0.03590	11.97	52.78- 92.78	131.60
11.215	11.214	0.001	60273	0.03193	10.64	69.36- 109.36	108.14
		Average of Peak Concentrations =			10.94		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\009F0901.D

Date : 14-JAN-2010 12:22

Client ID:

Instrument: a2hp9.i

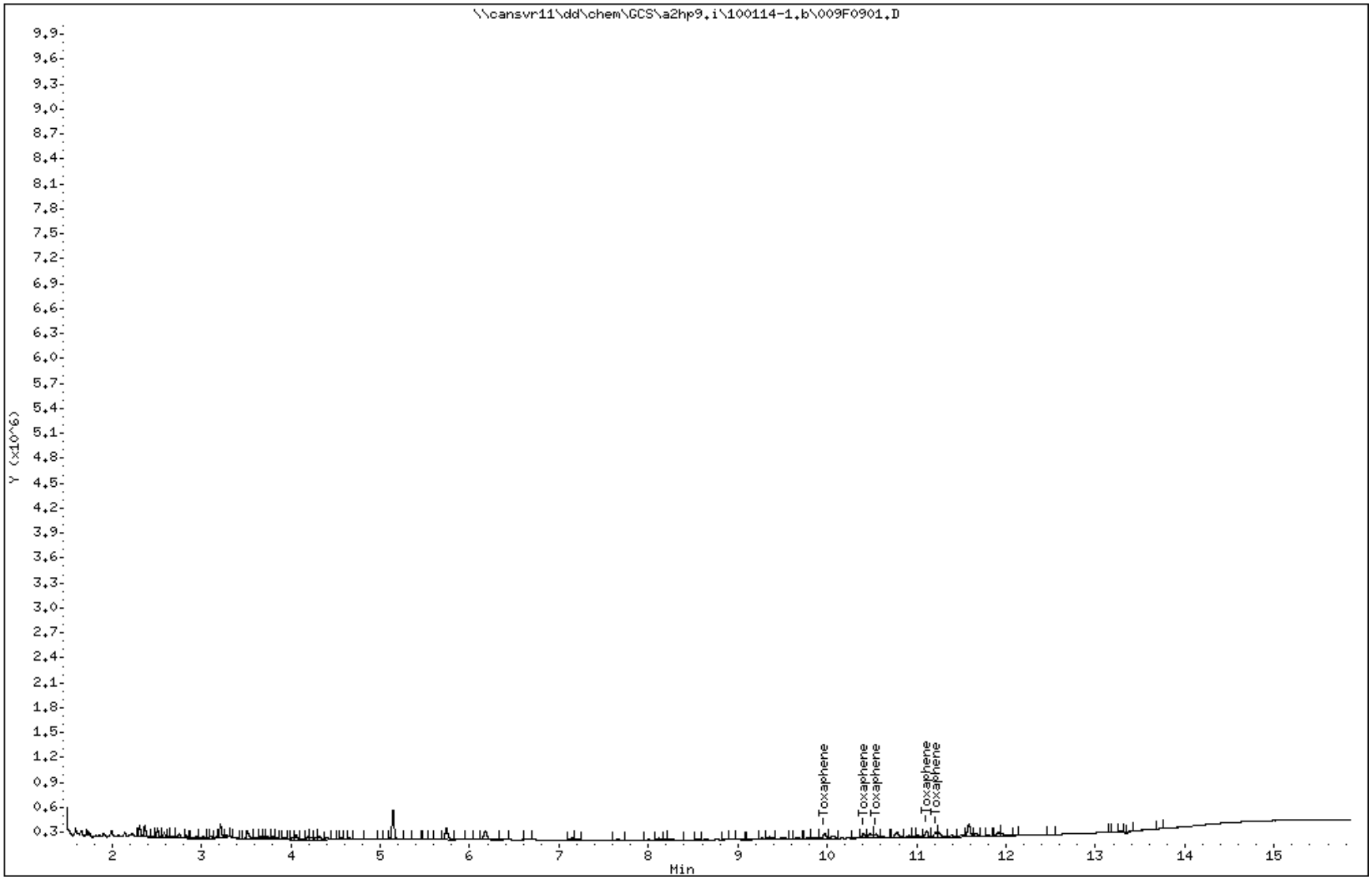
Sample Info: TOX SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

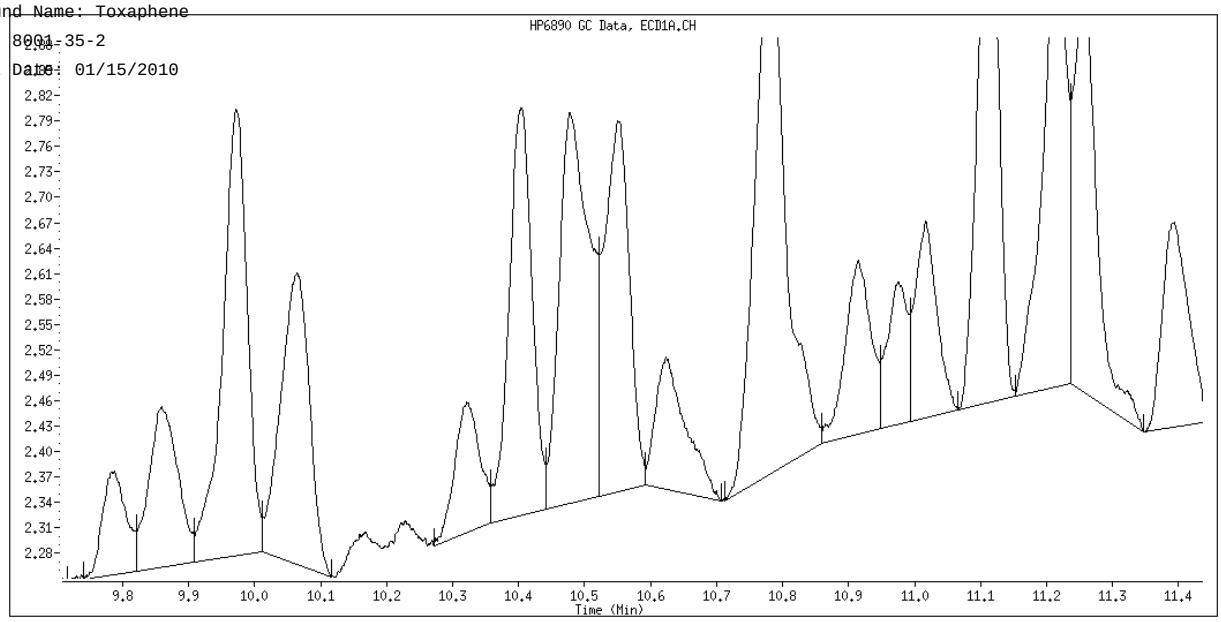


COMPOUNDS and EXP. RT REPORT

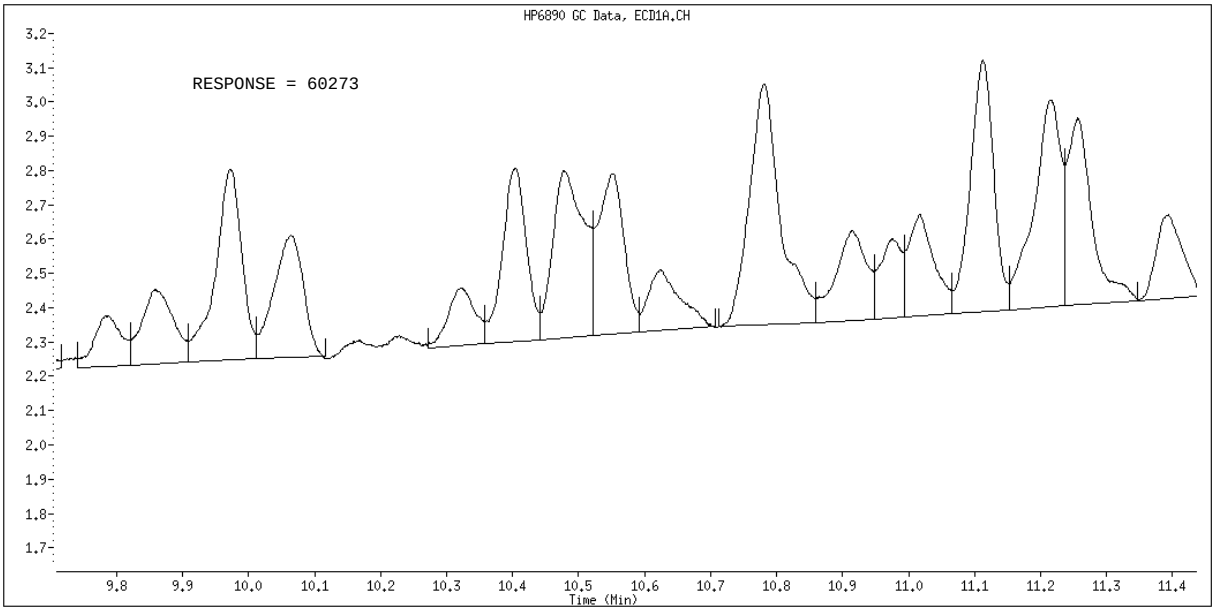
Operator: 093905 Date Acquired: 14-JAN-2010 12:22
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/009F0901.D
Lab Sample ID: TOX SOLID MDL
Misc. Info: TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
24) Toxaphene	9.972	156128	0.033	11.061 ug/Kg

Data File Name: 009F0901.D
Inj. Date and Time: 14-JAN-2010 12:22
Instrument ID: a2hp9.i
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\010F1001.D
Lab Smp Id: TOX SOLID MDL BL
Inj Date : 14-JAN-2010 12:46
Operator : 093905   Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL BL
Misc Info : TOX SOLID MDL VERIFICATION BLANK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Meth Date : 15-Jan-2010 12:35 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56   Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon   Compound Sublist: 19-pestap9.sub
Target Version: 4.14   Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.791	3.803	-0.012	111179	1e-003	0.009626		
2 Hexachlorobenzene						CAS #: 118-74-1	
4.283	4.285	-0.002	37493	3.e-004	0.09905		
Average of Peak Concentrations =					0.09905		
3 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC						CAS #: 319-84-6	
4.532	4.505	0.027	141424	8e-004	0.2510		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.954	4.929	0.025	10581	6e-005	0.02083		

```
    6 beta-BHC                                    CAS #: 319-85-7
5.067    5.078   -0.011           8471 0.00021  0.06996
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 delta-BHC					CAS #: 319-86-8		
5.308	5.326	-0.018	68014	4e-004	0.1389		
		Sum of Peak Concentrations =			0.1389		
8 Heptachlor					CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).							
9 Tech Chlordane					CAS #: 57-74-9		
5.521	5.520	0.001	5404	0.00193	0.6432	0.00- 20.00	100.00
0.000	6.524	-6.524	0	0.0000	0.0000	0.00- 20.00	0.00
0.000	7.926	-7.926	0	0.0000	0.0000	0.00- 20.00	0.00
8.249	8.235	0.014	26068	0.00300	1.001	0.00- 20.00	482.38
		Average of Peak Concentrations =			0.8219		
10 Aldrin					CAS #: 309-00-2		
6.176	6.180	-0.004	511270	0.00313	1.045		
11 Isodrin					CAS #: 465-73-6		
Peaks not detected for Quant. or Qual. signal(s).							
12 Heptachlor epoxide					CAS #: 1024-57-3		
Peaks not detected for Quant. or Qual. signal(s).							
13 gamma-Chlordane					CAS #: 5103-74-2		
Peaks not detected for Quant. or Qual. signal(s).							
14 alpha-Chlordane					CAS #: 5103-71-9		
8.249	8.236	0.013	26068	5.e-004	0.1652		
15 Endosulfan I					CAS #: 959-98-8		
Peaks not detected for Quant. or Qual. signal(s).							
16 4,4'-DDE					CAS #: 72-55-9		
Peaks not detected for Quant. or Qual. signal(s).							
17 Dieldrin					CAS #: 60-57-1		
Peaks not detected for Quant. or Qual. signal(s).							

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

19 Kepone CAS #: 143-50-0

9.478	9.491	-0.013	39380	0.09848	32.83

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

20 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 Toxaphene CAS #: 8001-35-2

Operator disabled compound identification.

---

23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

10.629	10.603	0.026		6189	0.00014	0.04660	

---

26 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

11.275	11.303	-0.028		42261	4e-004	0.1307	

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\010F1001.D

Date : 14-JAN-2010 12:46

Client ID:

Instrument: a2hp9.i

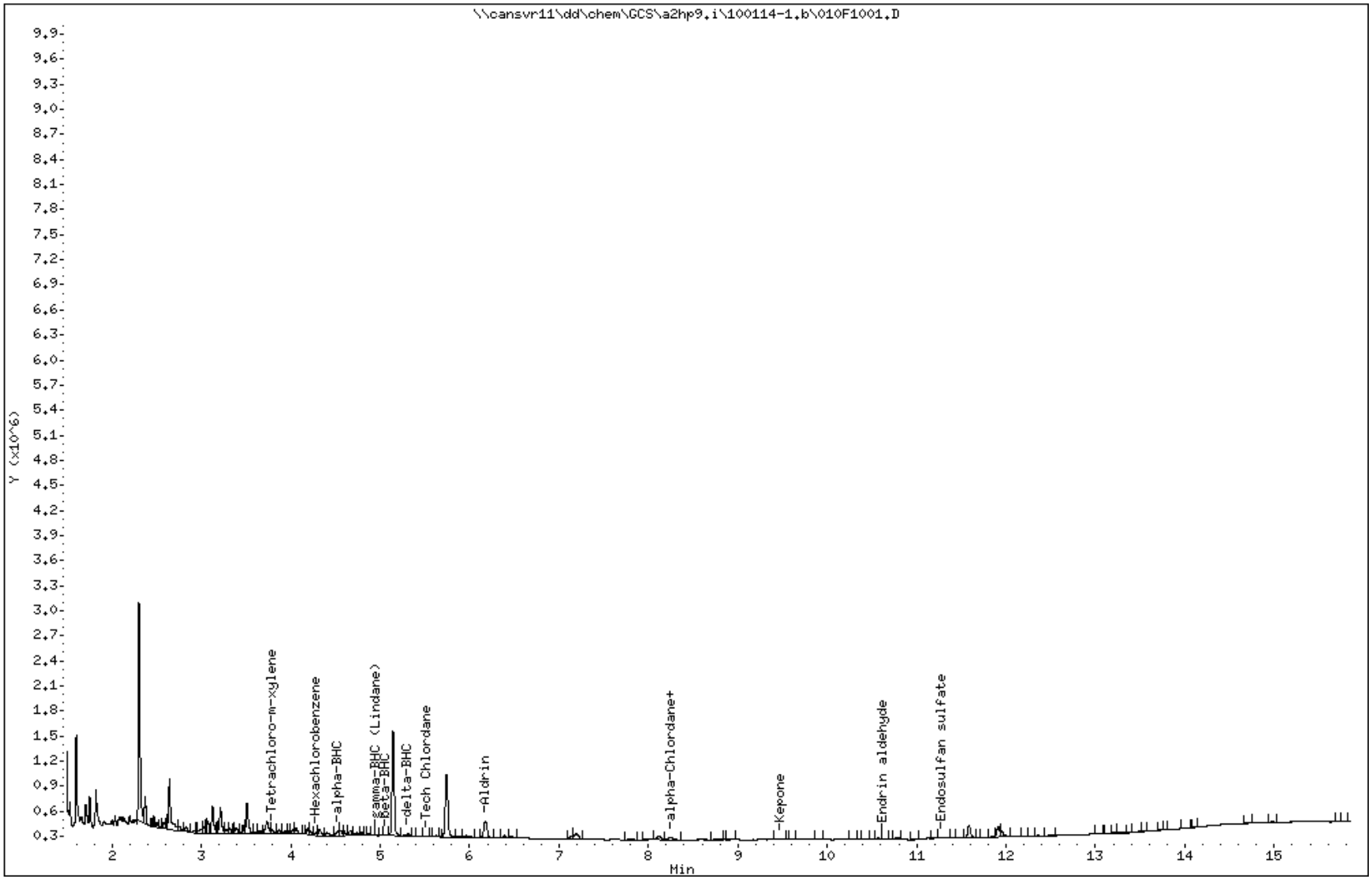
Sample Info: TOX SOLID MDL BL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 14-JAN-2010 12:46
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/010F1001.D
Lab Sample ID: TOX SOLID MDL BL
Misc. Info: TOX SOLID MDL VERIFICATION BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	3.791	111179	0.001	0.010 ug/Kg
2)	Hexachlorobenzene	4.284	67093	0.000	0.099 ug/Kg
3)	Diallate	NOT DETECTED	Expected RT = 4.369		
4)	alpha-BHC	4.533	141424	0.001	0.251 ug/Kg
5)	gamma-BHC (Lindane)	4.955	10581	0.000	0.021 ug/Kg
6)	beta-BHC	5.067	15991	0.000	0.070 ug/Kg
7)	delta-BHC	5.309	68014	0.000	0.139 ug/Kg
9)	Tech Chlordane	5.521	11995	0.002	0.643 ug/Kg
8)	Heptachlor	NOT DETECTED	Expected RT = 5.651		
10)	Aldrin	6.176	511270	0.003	1.045 ug/Kg
11)	Isodrin	NOT DETECTED	Expected RT = 6.883		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 7.623		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 7.925		
14)	alpha-Chlordane	8.250	88403	0.000	0.165 ug/Kg
15)	Endosulfan I	NOT DETECTED	Expected RT = 8.491		
16)	4,4'-DDE	NOT DETECTED	Expected RT = 8.564		
17)	Dieldrin	NOT DETECTED	Expected RT = 9.004		
18)	Endrin	NOT DETECTED	Expected RT = 9.429		
19)	Kepone	9.479	39380	0.098	32.827 ug/Kg
20)	4,4'-DDD	NOT DETECTED	Expected RT = 9.742		
21)	Chlorobenzilate	NOT DETECTED	Expected RT = 9.834		
22)	Endosulfan II	NOT DETECTED	Expected RT = 9.849		
24)	Toxaphene	NOT DETECTED	Expected RT = 9.971		
23)	4,4'-DDT	NOT DETECTED	Expected RT = 10.229		
25)	Endrin aldehyde	10.630	14883	0.000	0.047 ug/Kg
26)	Mirex	NOT DETECTED	Expected RT = 10.814		
27)	Methoxychlor	NOT DETECTED	Expected RT = 11.126		
28)	Endosulfan sulfate	11.275	42261	0.000	0.131 ug/Kg
29)	Endrin ketone	NOT DETECTED	Expected RT = 11.696		
30)	Decachlorobiphenyl	NOT DETECTED	Expected RT = 13.247		

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\007F0701.D
Lab Smp Id: AB 1 SOLID MDL
Inj Date : 07-JAN-2010 12:27
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB 1 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.416	4.415	0.001	456178	0.00893	0.08933			
4 alpha-BHC						CAS #: 319-84-6		
5.357	5.357	0.000	522749	0.00864	2.880			(M)
5 gamma-BHC (Lindane)						CAS #: 58-89-9		
6.031	6.028	0.003	883052	0.00911	3.037			
6 beta-BHC						CAS #: 319-85-7		
6.241	6.239	0.002	459323	0.01069	3.564			
7 delta-BHC						CAS #: 319-86-8		
6.917	6.915	0.002	854721	0.00912	3.041			
8 Heptachlor						CAS #: 76-44-8		
7.034	7.031	0.003	1111979	0.01264	4.212			

```
   10 Aldrin                                      CAS #: 309-00-2
7.862    7.861    0.001          273687 0.00879    2.931
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.194	9.193	0.001	858591	0.01076	3.586		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.576	9.575	0.001	732828	0.00921	3.071		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.859	9.858	0.001	713996	0.00932	3.106		
15 Endosulfan I					CAS #: 959-98-8		
9.925	9.924	0.001	671990	0.00942	3.139		
16 4,4'-DDE					CAS #: 72-55-9		
10.262	10.261	0.001	642002	0.00893	2.976		
17 Dieldrin					CAS #: 60-57-1		
10.422	10.420	0.002	303906	0.00907	3.022		
18 Endrin					CAS #: 72-20-8		
10.921	10.920	0.001	289303	0.00935	3.116		
21 4,4'-DDD					CAS #: 72-54-8		
11.229	11.228	0.001	483749	0.00994	3.313		
22 Endosulfan II					CAS #: 33213-65-9		
11.280	11.278	0.002	289326	0.00979	3.262		
24 4,4'-DDT					CAS #: 50-29-3		
11.709	11.708	0.001	422325	0.00927	3.089		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.822	11.823	-0.001	244197	0.01001	3.338		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.243	12.242	0.001	270519	0.01047	3.491		
27 Methoxychlor					CAS #: 72-43-5		
12.754	12.753	0.001	278685	0.01279	4.263		
29 Endrin ketone					CAS #: 53494-70-5		
12.983	12.982	0.001	316028	0.00995	3.315		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.729	14.728	0.001	601764	0.01022	0.1022		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\007F0701.D

Date : 07-JAN-2010 12:27

Client ID:

Instrument: a2hp9.i

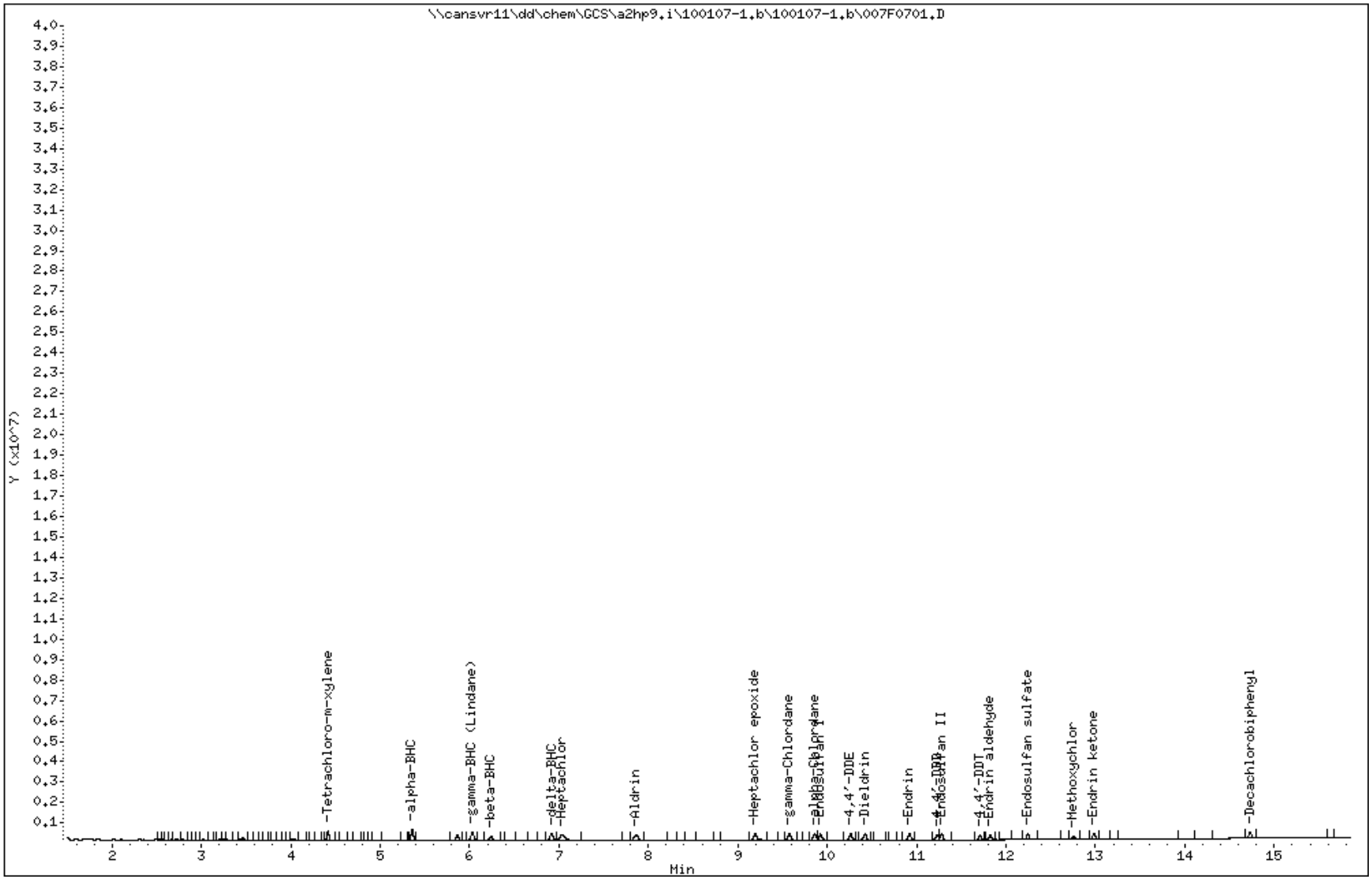
Sample Info: AB 1 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

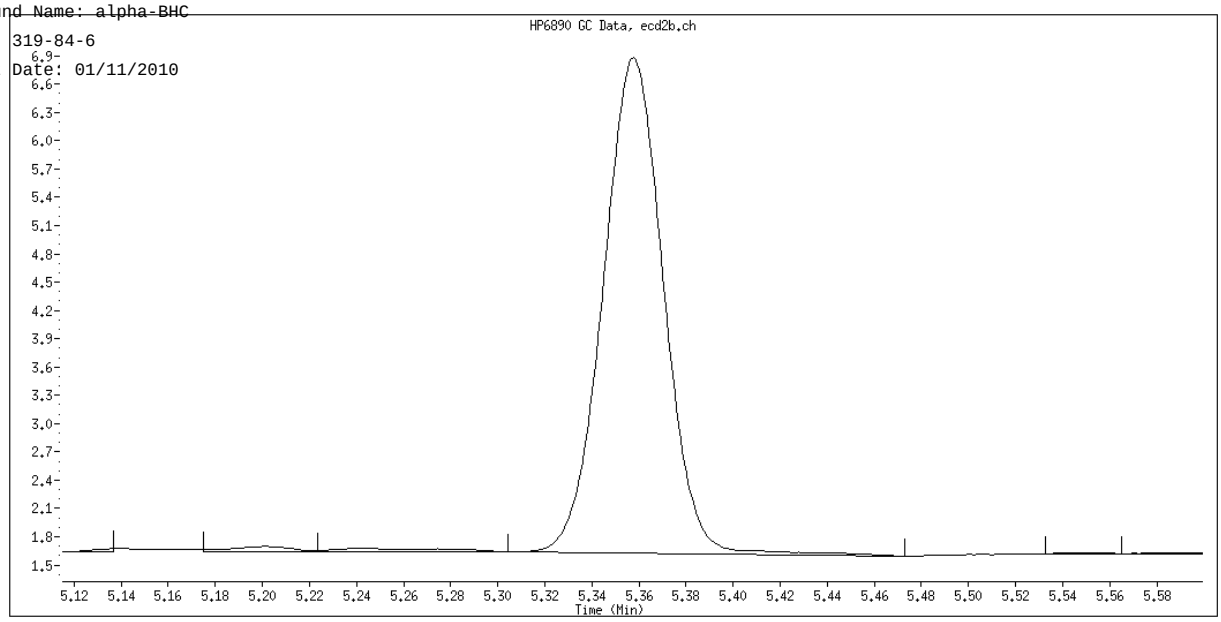


COMPOUNDS and EXP. RT REPORT

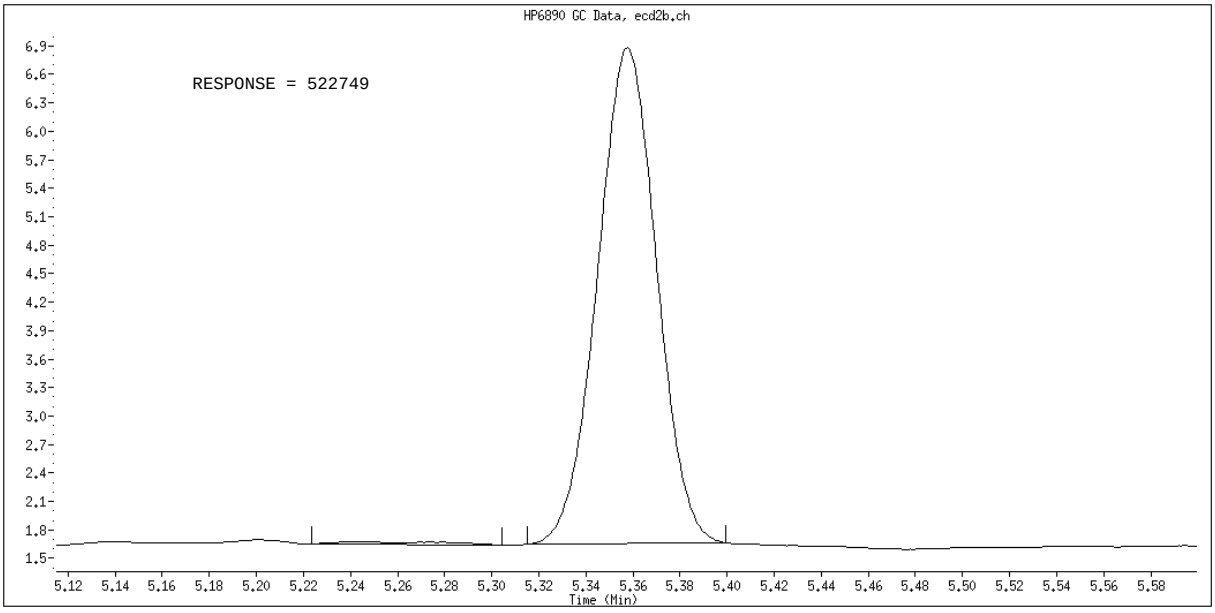
Operator: 093905 Date Acquired: 07-JAN-2010 12:27
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/007F0701.D
Lab Sample ID: AB 1 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 3.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.416	658444	0.009	0.089 ug/Kg
4) alpha-BHC	5.358	912078	0.009	2.880 ug/Kg
5) gamma-BHC (Lindane)	6.031	883052	0.009	3.037 ug/Kg
6) beta-BHC	6.241	459323	0.011	3.564 ug/Kg
7) delta-BHC	6.918	854721	0.009	3.041 ug/Kg
8) Heptachlor	7.034	1111979	0.013	4.212 ug/Kg
10) Aldrin	7.863	818431	0.009	2.931 ug/Kg
12) Heptachlor epoxide	9.194	858591	0.011	3.586 ug/Kg
13) gamma-Chlordane	9.576	732828	0.009	3.071 ug/Kg
14) alpha-Chlordane	9.859	713996	0.009	3.106 ug/Kg
15) Endosulfan I	9.925	671990	0.009	3.139 ug/Kg
16) 4,4'-DDE	10.263	642002	0.009	2.976 ug/Kg
17) Dieldrin	10.423	678890	0.009	3.022 ug/Kg
18) Endrin	10.921	619403	0.009	3.116 ug/Kg
21) 4,4'-DDD	11.229	483749	0.010	3.313 ug/Kg
22) Endosulfan II	11.280	618396	0.010	3.262 ug/Kg
24) 4,4'-DDT	11.709	422325	0.009	3.089 ug/Kg
25) Endrin aldehyde	11.823	490522	0.010	3.338 ug/Kg
26) Endosulfan sulfate	12.244	552152	0.010	3.491 ug/Kg
27) Methoxychlor	12.754	278685	0.013	4.263 ug/Kg
29) Endrin ketone	12.984	608447	0.010	3.315 ug/Kg
30) Decachlorobiphenyl	14.729	601764	0.010	0.102 ug/Kg

Data File Name: 007F0701.D
Inj. Date and Time: 07-JAN-2010 12:27
Instrument ID: a2hp9.i
Client ID:
Compound Name: alpha-BHC
CAS #: 319-84-6
Report Date: 01/11/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\008F0801.D
Lab Smp Id: AB 0.4 SOLID MDL
Inj Date : 07-JAN-2010 12:52
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB 0.4 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.412	4.415	-0.003	215321	0.00422	0.04217		
4 alpha-BHC						CAS #: 319-84-6	
5.357	5.357	0.000	181250	0.00300	0.9986		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.030	6.028	0.002	359272	0.00371	1.236		
6 beta-BHC						CAS #: 319-85-7	
6.241	6.239	0.002	240367	0.00560	1.865		
7 delta-BHC						CAS #: 319-86-8	
6.915	6.915	0.000	311830	0.00333	1.109		
8 Heptachlor						CAS #: 76-44-8	
7.042	7.031	0.011	641042	0.00728	2.428		

```
   10 Aldrin                                      CAS #: 309-00-2
7.861    7.861    0.000           98928 0.00318    1.060
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.193	9.193	0.000	290920	0.00365	1.215		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.574	9.575	-0.001	301090	0.00379	1.262		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.859	9.858	0.001	279349	0.00365	1.215		
15 Endosulfan I					CAS #: 959-98-8		
9.924	9.924	0.000	263818	0.00370	1.232		
16 4,4'-DDE					CAS #: 72-55-9		
10.261	10.261	0.000	243923	0.00339	1.130		
17 Dieldrin					CAS #: 60-57-1		
10.420	10.420	0.000	112391	0.00335	1.118		
18 Endrin					CAS #: 72-20-8		
10.920	10.920	0.000	108594	0.00351	1.170		
21 4,4'-DDD					CAS #: 72-54-8		
11.228	11.228	0.000	184095	0.00378	1.261		
22 Endosulfan II					CAS #: 33213-65-9		
11.279	11.278	0.001	111094	0.00376	1.253		
24 4,4'-DDT					CAS #: 50-29-3		
11.709	11.708	0.001	143828	0.00316	1.052		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.822	11.823	-0.001	95927	0.00393	1.311		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.242	12.242	0.000	105645	0.00409	1.363		
27 Methoxychlor					CAS #: 72-43-5		
12.754	12.753	0.001	136990	0.00629	2.096		
29 Endrin ketone					CAS #: 53494-70-5		
12.981	12.982	-0.001	127193	0.00400	1.334		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.728	14.728	0.000	231235	0.00393	0.03926		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\008F0801.D

Date : 07-JAN-2010 12:52

Client ID:

Instrument: a2hp9.i

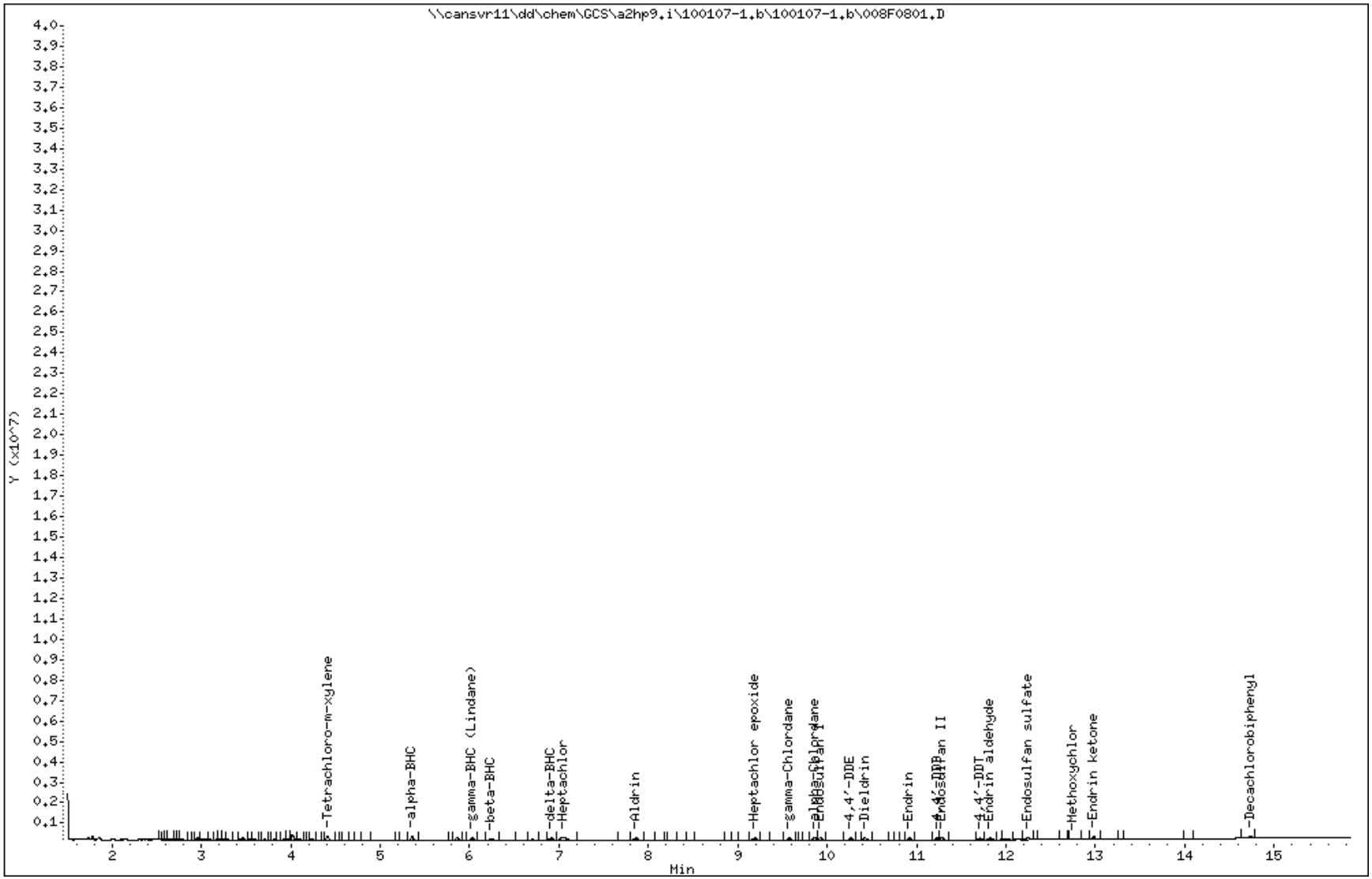
Sample Info: AB 0.4 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 12:52
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/008F0801.D
Lab Sample ID: AB 0.4 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 1.33 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.412	396824	0.004	0.042 ug/Kg
4)	alpha-BHC	5.357	328144	0.003	0.999 ug/Kg
5)	gamma-BHC (Lindane)	6.031	359272	0.004	1.236 ug/Kg
6)	beta-BHC	6.242	240367	0.006	1.865 ug/Kg
7)	delta-BHC	6.916	311830	0.003	1.109 ug/Kg
8)	Heptachlor	7.042	641042	0.007	2.428 ug/Kg
10)	Aldrin	7.862	313184	0.003	1.060 ug/Kg
12)	Heptachlor epoxide	9.193	290920	0.004	1.215 ug/Kg
13)	gamma-Chlordane	9.575	301090	0.004	1.262 ug/Kg
14)	alpha-Chlordane	9.859	279349	0.004	1.215 ug/Kg
15)	Endosulfan I	9.925	263818	0.004	1.232 ug/Kg
16)	4,4'-DDE	10.262	243923	0.003	1.131 ug/Kg
17)	Dieldrin	10.421	256088	0.003	1.118 ug/Kg
18)	Endrin	10.921	236232	0.004	1.170 ug/Kg
21)	4,4'-DDD	11.228	184095	0.004	1.261 ug/Kg
22)	Endosulfan II	11.280	237756	0.004	1.253 ug/Kg
24)	4,4'-DDT	11.710	143828	0.003	1.052 ug/Kg
25)	Endrin aldehyde	11.822	201484	0.004	1.311 ug/Kg
26)	Endosulfan sulfate	12.242	217669	0.004	1.363 ug/Kg
27)	Methoxychlor	12.754	136990	0.006	2.096 ug/Kg
29)	Endrin ketone	12.982	252292	0.004	1.334 ug/Kg
30)	Decachlorobiphenyl	14.728	231235	0.004	0.039 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\009F0901.D
Lab Smp Id: AB 0.2 SOLID MDL
Inj Date : 07-JAN-2010 13:17
Operator : 093905 Inst ID: a2hp9.i
Smp Info : AB 0.2 SOLID MDL
Misc Info : SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.413	4.415	-0.002	107249	0.00210	0.02100		
4 alpha-BHC						CAS #: 319-84-6	
5.357	5.357	0.000	95605	0.00158	0.5267		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
6.029	6.028	0.001	198574	0.00205	0.6829		
6 beta-BHC						CAS #: 319-85-7	
6.240	6.239	0.001	170577	0.00397	1.324		
7 delta-BHC						CAS #: 319-86-8	
6.915	6.915	0.000	173603	0.00185	0.6177		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO	
8 Heptachlor						CAS #: 76-44-8		
Peaks not detected for Quant. or Qual. signal(s).								
10 Aldrin						CAS #: 309-00-2		
7.862	7.861	0.001	55184	0.00177	0.5911			
12 Heptachlor epoxide						CAS #: 1024-57-3		
9.193	9.193	0.000	172218	0.00216	0.7193			
13 gamma-Chlordane						CAS #: 5103-74-2		
9.574	9.575	-0.001	167907	0.00211	0.7037			
14 alpha-Chlordane						CAS #: 5103-71-9		
9.858	9.858	0.000	157026	0.00205	0.6832			
15 Endosulfan I						CAS #: 959-98-8		
9.924	9.924	0.000	154816	0.00217	0.7231			
16 4,4'-DDE						CAS #: 72-55-9		
10.261	10.261	0.000	146965	0.00204	0.6812			
17 Dieldrin						CAS #: 60-57-1		
10.421	10.420	0.001	64392	0.00192	0.6403			
18 Endrin						CAS #: 72-20-8		
10.919	10.920	-0.001	63556	0.00205	0.6846			
21 4,4'-DDD						CAS #: 72-54-8		
11.227	11.228	-0.001	96620	0.00199	0.6618			
22 Endosulfan II						CAS #: 33213-65-9		
11.278	11.278	0.000	59781	0.00202	0.6741			
24 4,4'-DDT						CAS #: 50-29-3		
11.709	11.708	0.001	87177	0.00191	0.6377			
25 Endrin aldehyde						CAS #: 7421-93-4		
11.822	11.823	-0.001	54847	0.00225	0.7497			
26 Endosulfan sulfate						CAS #: 1031-07-8		
12.243	12.242	0.001	58401	0.00226	0.7536			
27 Methoxychlor						CAS #: 72-43-5		
12.753	12.753	0.000	55800	0.00256	0.8536			(M)
29 Endrin ketone						CAS #: 53494-70-5		
12.979	12.982	-0.003	73049	0.00230	0.7663			
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3		

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14.726  14.728   -0.002          130077 0.00221  0.02208
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QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\009F0901.D

Date : 07-JAN-2010 13:17

Client ID:

Instrument: a2hp9.i

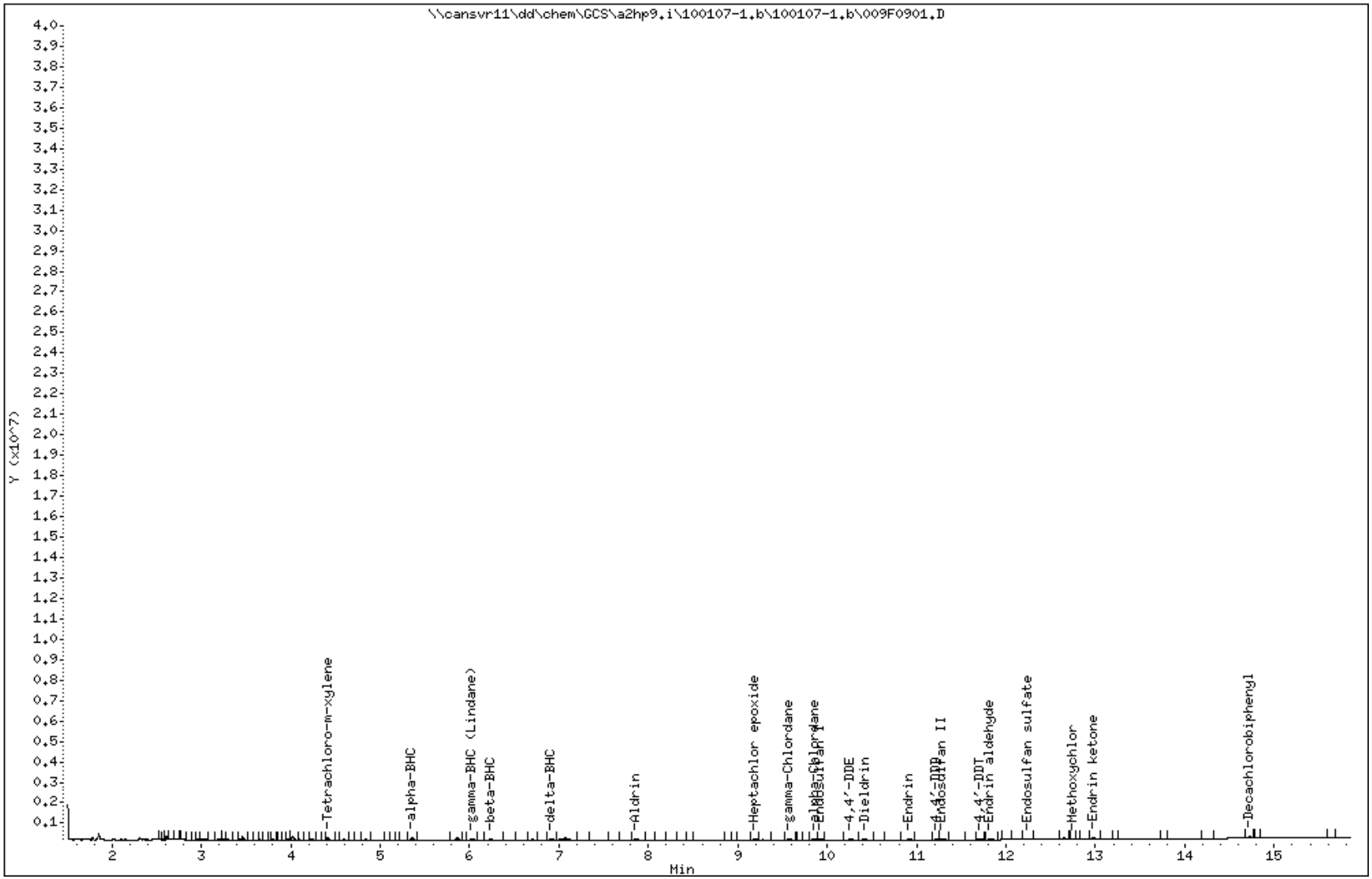
Sample Info: AB 0.2 SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

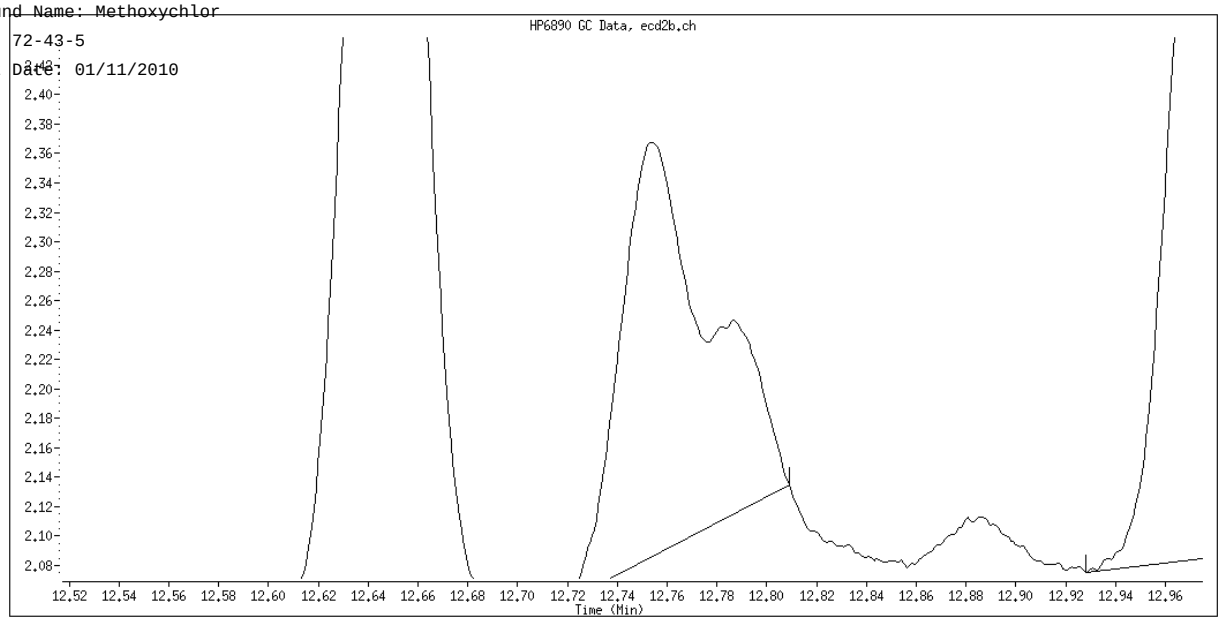


COMPOUNDS and EXP. RT REPORT

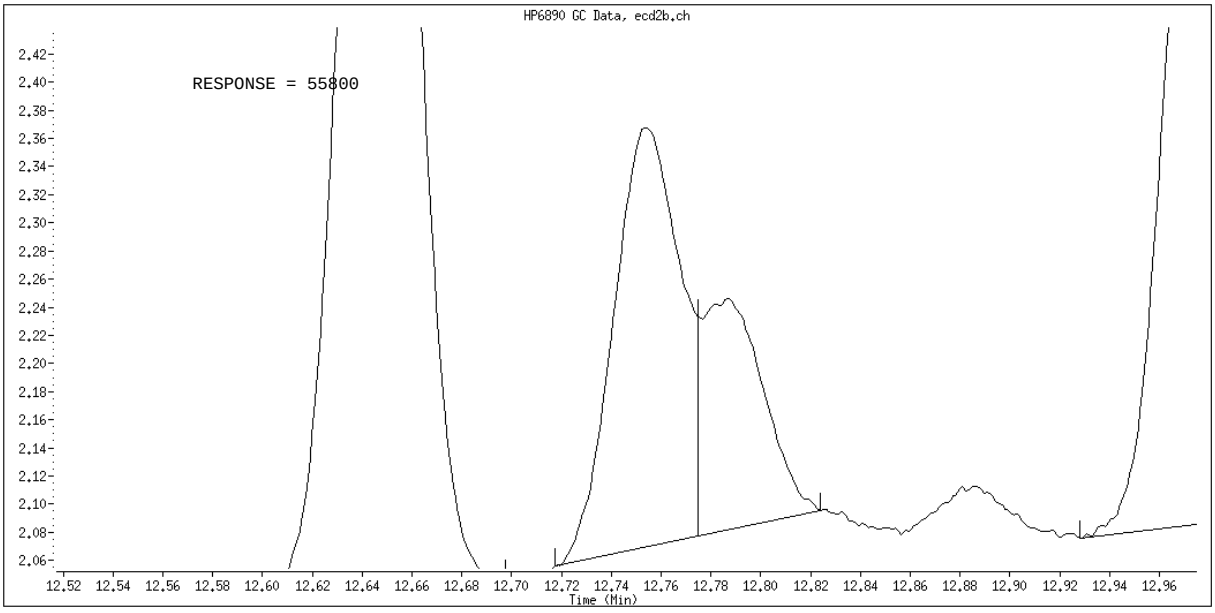
Operator: 093905 Date Acquired: 07-JAN-2010 13:17
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/009F0901.D
Lab Sample ID: AB 0.2 SOLID MDL
Misc. Info: SOLID AB MDL VERIFICATION tv = 0.67 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.413	202210	0.002	0.021 ug/Kg
4) alpha-BHC	5.357	186032	0.002	0.527 ug/Kg
5) gamma-BHC (Lindane)	6.030	198574	0.002	0.683 ug/Kg
6) beta-BHC	6.241	170577	0.004	1.324 ug/Kg
7) delta-BHC	6.916	173603	0.002	0.618 ug/Kg
8) Heptachlor	NOT DETECTED Expected RT = 7.031			
10) Aldrin	7.862	171429	0.002	0.591 ug/Kg
12) Heptachlor epoxide	9.193	172218	0.002	0.719 ug/Kg
13) gamma-Chlordane	9.575	167907	0.002	0.704 ug/Kg
14) alpha-Chlordane	9.858	157026	0.002	0.683 ug/Kg
15) Endosulfan I	9.924	154816	0.002	0.723 ug/Kg
16) 4,4'-DDE	10.262	146965	0.002	0.681 ug/Kg
17) Dieldrin	10.422	157390	0.002	0.640 ug/Kg
18) Endrin	10.920	140373	0.002	0.685 ug/Kg
21) 4,4'-DDD	11.227	96620	0.002	0.662 ug/Kg
22) Endosulfan II	11.278	127651	0.002	0.674 ug/Kg
24) 4,4'-DDT	11.710	87177	0.002	0.638 ug/Kg
25) Endrin aldehyde	11.822	113544	0.002	0.750 ug/Kg
26) Endosulfan sulfate	12.243	125096	0.002	0.754 ug/Kg
27) Methoxychlor	12.753	55800	0.003	0.854 ug/Kg
29) Endrin ketone	12.980	154864	0.002	0.766 ug/Kg
30) Decachlorobiphenyl	14.727	130077	0.002	0.022 ug/Kg

Data File Name: 009F0901.D
Inj. Date and Time: 07-JAN-2010 13:17
Instrument ID: a2hp9.i
Client ID:
Compound Name: Methoxychlor
CAS #: 72-43-5
Report Date: 01/11/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\010F1001.D
Lab Smp Id: TC SOLID MDL
Inj Date : 07-JAN-2010 13:42
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TC SOLID MDL
Misc Info : SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 15-TECHLOR.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
9 Tech Chlordane					CAS #: 57-74-9		
6.704	6.671	0.033	34043	0.02786	9.288	0.00- 20.00	100.00(M)
8.305	8.305	0.000	0	0.0000	0.0000	0.00- 20.00	0.00
9.571	9.573	-0.002	54042	0.01389	4.631	0.00- 20.00	158.75
9.856	9.858	-0.002	40686	0.01245	4.149	0.00- 20.00	119.51
Average of Peak Concentrations =					6.023		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\010F1001.D Page 1

Date : 07-JAN-2010 13:42

Client ID:

Instrument: a2hp9.i

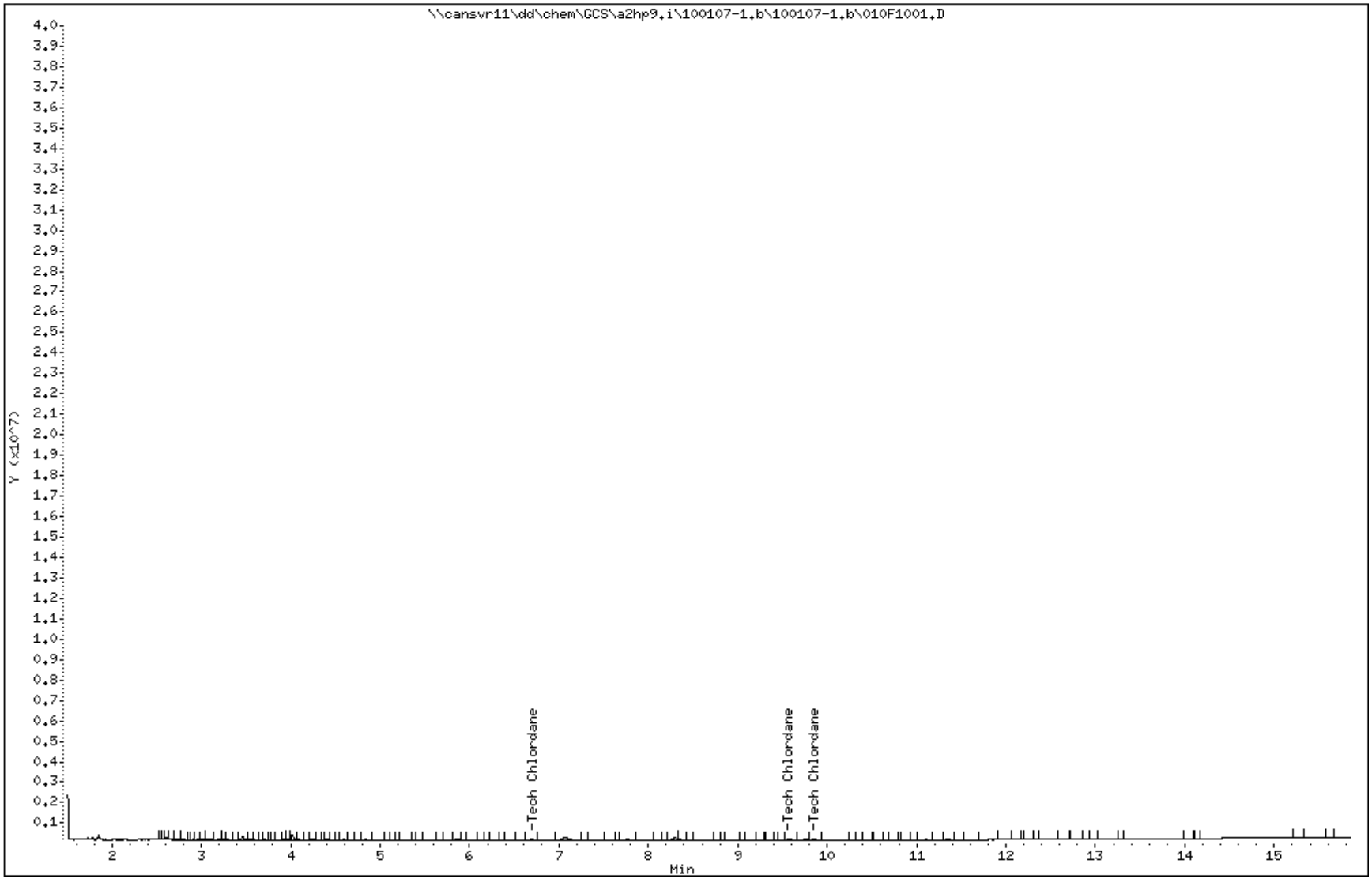
Sample Info: TC SOLID MDL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53

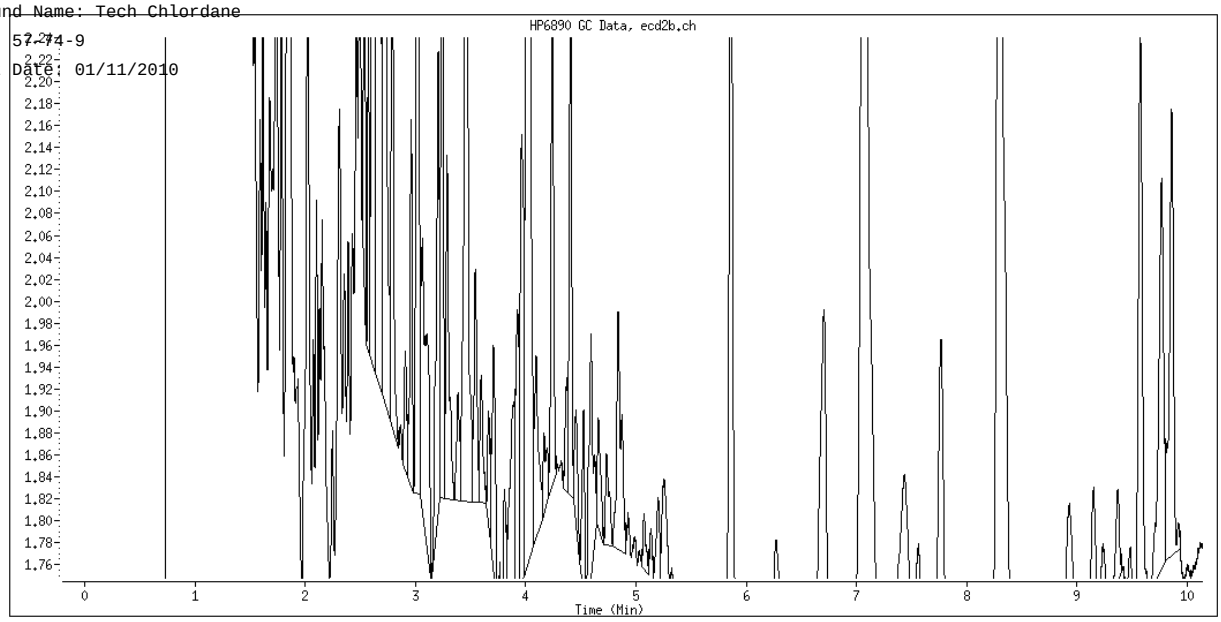


COMPOUNDS and EXP. RT REPORT

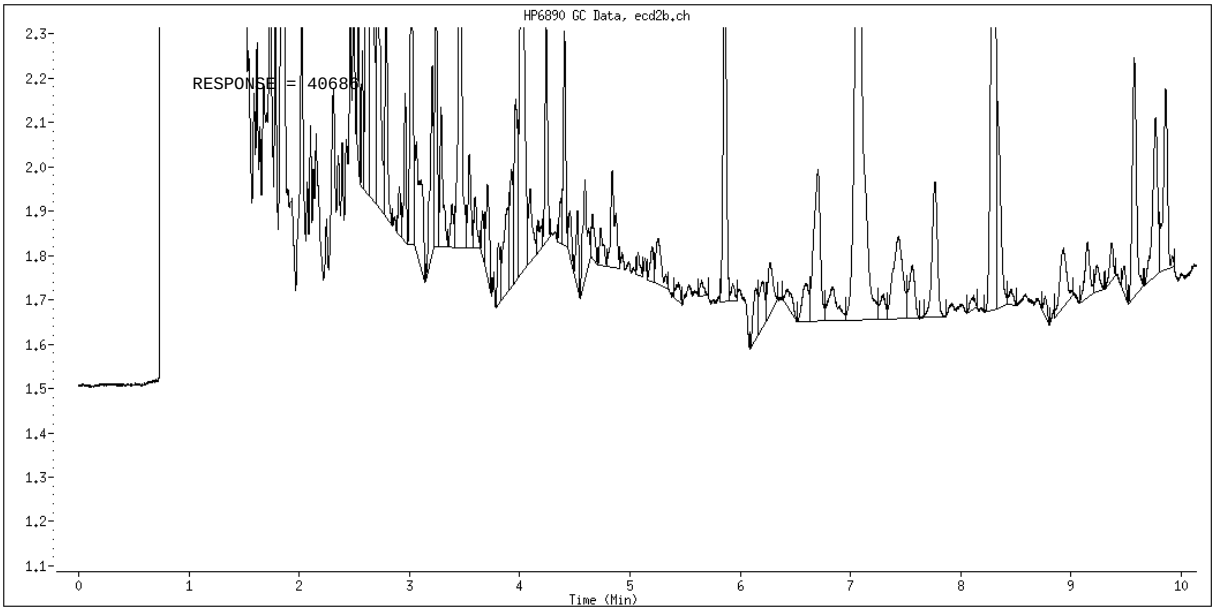
Operator: 093905 Date Acquired: 07-JAN-2010 13:42
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/010F1001.D
Lab Sample ID: TC SOLID MDL
Misc. Info: SOLID TE-CHLOR MDL VERIFICATION tv = 5 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
9) Tech Chlordane	6.704	143380	0.028	9.288 ug/Kg

Data File Name: 010F1001.D
Inj. Date and Time: 07-JAN-2010 13:42
Instrument ID: a2hp9.i
Client ID:
Compound Name: Tech Chlordane
CAS #: 57-74-9
Report Date: 01/11/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\012F1201.D
Lab Smp Id: MDL SOLID BLK
Inj Date : 07-JAN-2010 14:32
Operator : 093905 Inst ID: a2hp9.i
Smp Info : MDL SOLID BLK
Misc Info : SOLID MDL BLANK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Meth Date : 11-Jan-2010 06:43 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.404	4.415	-0.011	28970	6e-004	0.005673		
2 Diallate						CAS #: 2303-16-4	

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene						CAS #: 118-74-1	

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC						CAS #: 319-84-6	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

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6 beta-BHC CAS #: 319-85-7

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

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10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

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13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

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14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

9.909 9.924 -0.015 10413 1e-004 0.04864

---

16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

19 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

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22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

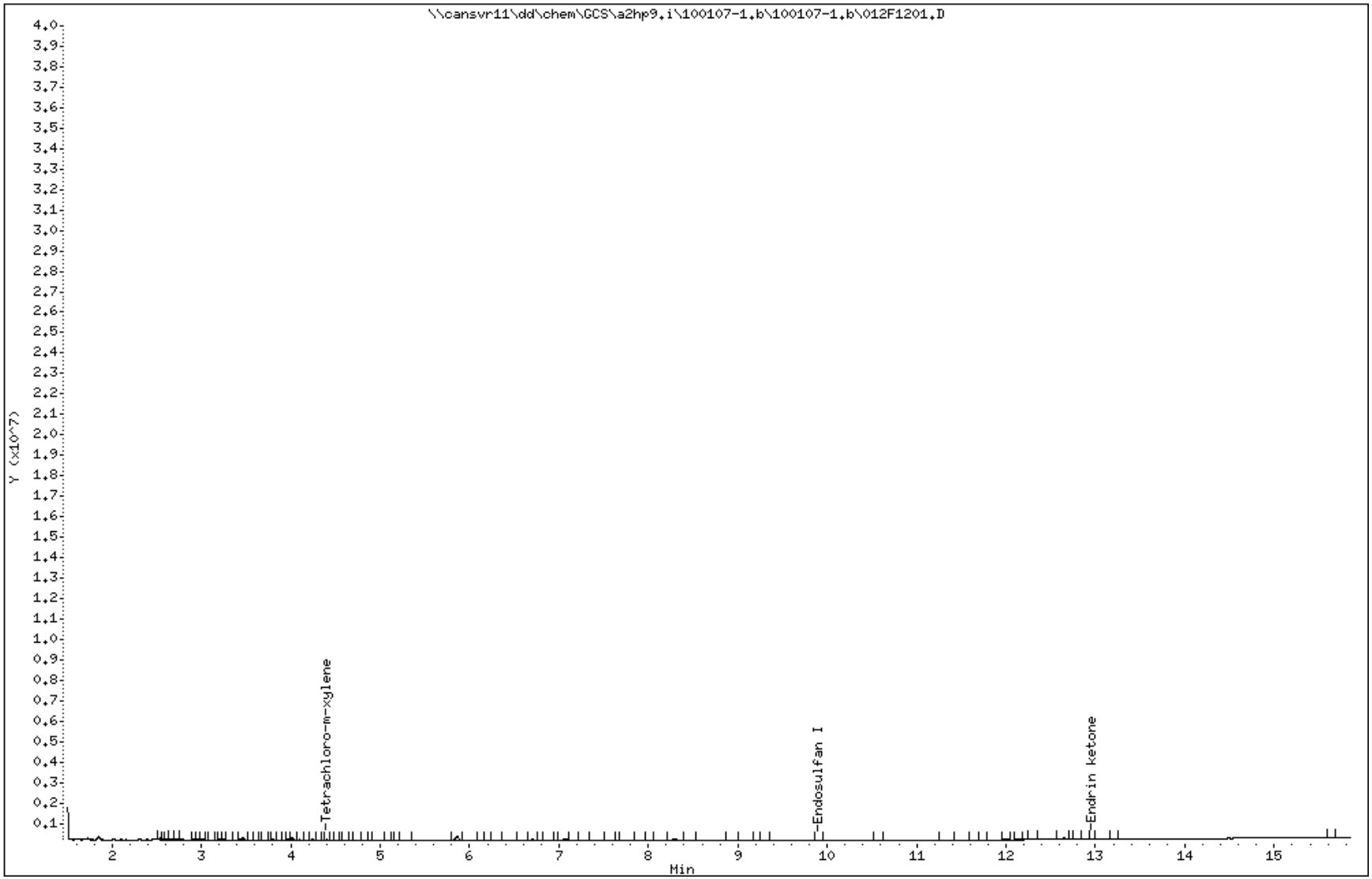
12.967	12.982	-0.015	6706	2e-004	0.07035

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\100107-1.b\012F1201.D Page 1
Date : 07-JAN-2010 14:32
Client ID:
Instrument: a2hp9.i
Sample Info: MDL SOLID BLK
Volume Injected (uL): 1.0
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 07-JAN-2010 14:32
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100107-1.b/100107-1.b/012F1201.D
Lab Sample ID: MDL SOLID BLK
Misc. Info: SOLID MDL BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100107-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.405	57103	0.001	0.006 ug/Kg
2) Diallate	NOT DETECTED	Expected RT = 5.042		
3) Hexachlorobenzene	NOT DETECTED	Expected RT = 5.105		
4) alpha-BHC	NOT DETECTED	Expected RT = 5.357		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 6.029		
6) beta-BHC	NOT DETECTED	Expected RT = 6.240		
9) Tech Chlordane	NOT DETECTED	Expected RT = 6.672		
7) delta-BHC	NOT DETECTED	Expected RT = 6.916		
8) Heptachlor	NOT DETECTED	Expected RT = 7.031		
10) Aldrin	NOT DETECTED	Expected RT = 7.861		
11) Isodrin	NOT DETECTED	Expected RT = 8.772		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 9.193		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 9.575		
14) alpha-Chlordane	NOT DETECTED	Expected RT = 9.859		
15) Endosulfan I	9.909	10413	0.000	0.049 ug/Kg
16) 4,4'-DDE	NOT DETECTED	Expected RT = 10.261		
17) Dieldrin	NOT DETECTED	Expected RT = 10.421		
18) Endrin	NOT DETECTED	Expected RT = 10.921		
19) Chlorobenzilate	NOT DETECTED	Expected RT = 11.058		
20) Kepone	NOT DETECTED	Expected RT = 11.092		
21) 4,4'-DDD	NOT DETECTED	Expected RT = 11.228		
22) Endosulfan II	NOT DETECTED	Expected RT = 11.279		
23) Toxaphene	NOT DETECTED	Expected RT = 11.424		
24) 4,4'-DDT	NOT DETECTED	Expected RT = 11.709		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 11.823		
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.242		
27) Methoxychlor	NOT DETECTED	Expected RT = 12.754		
28) Mirex	NOT DETECTED	Expected RT = 12.864		
29) Endrin ketone	12.967	10973	0.000	0.070 ug/Kg
30) Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.728		

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PESTICIDES 8081/608

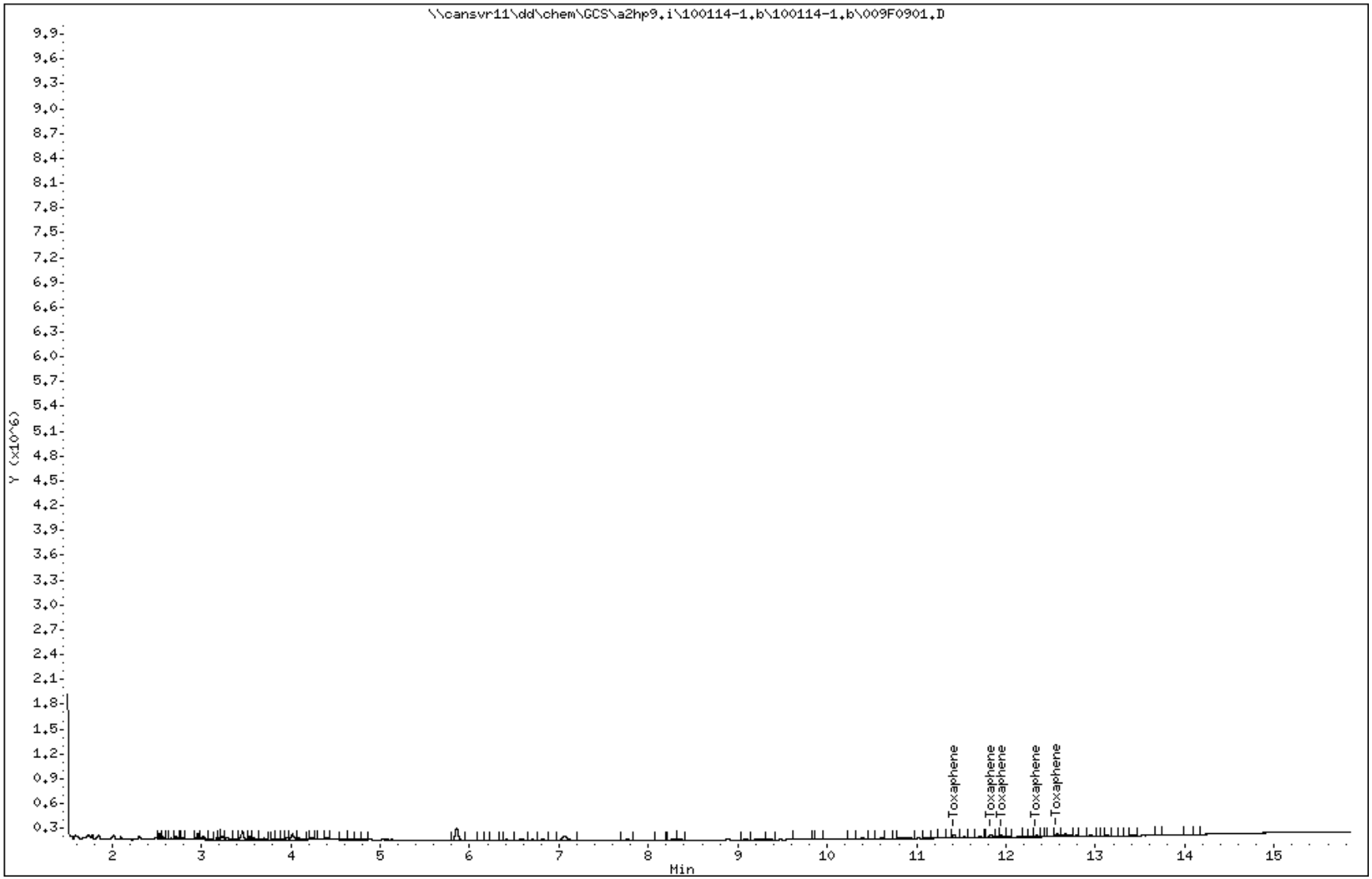
Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\009F0901.D
Lab Smp Id: TOX SOLID MDL
Inj Date : 14-JAN-2010 12:22
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL
Misc Info : TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Jan-2010 12:44 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 16-TOXAPH.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
23 Toxaphene					CAS #: 8001-35-2		
11.417	11.418	-0.001	41415	0.03794	12.65	80.00- 120.00	100.00
11.830	11.829	0.001	38821	0.03749	12.50	114.04- 154.04	93.74
11.948	11.948	0.000	22802	0.03585	11.95	115.64- 155.64	55.06
12.340	12.345	-0.005	17967	0.03422	11.40	52.78- 92.78	43.38
12.572	12.571	0.001	34059	0.03804	12.68	69.36- 109.36	82.24
Average of Peak Concentrations =					12.24		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\009F0901.D Page 1
Date : 14-JAN-2010 12:22
Client ID:
Instrument: a2hp9.i
Sample Info: TOX SOLID MDL
Volume Injected (uL): 1.0
Operator: 093905
Column phase: clp pesticides II
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 14-JAN-2010 12:22
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/100114-1.b/009F0901.D
Lab Sample ID: TOX SOLID MDL
Misc. Info: TOX SOLID MDL VERIFICATION fv = 20 ug/kg
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	11.418	91360	0.038	12.647 ug/Kg

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PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\010F1001.D
Lab Smp Id: TOX SOLID MDL BL
Inj Date : 14-JAN-2010 12:46
Operator : 093905 Inst ID: a2hp9.i
Smp Info : TOX SOLID MDL BL
Misc Info : TOX SOLID MDL VERIFICATION BLANK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Meth Date : 15-Jan-2010 12:44 vandorenc Quant Type: ESTD
Cal Date : 04-JAN-2010 16:56 Cal File: 013F0401.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.402	4.412	-0.010	37890	7e-004	0.007420		

2 Diallate CAS #: 2303-16-4

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene CAS #: 118-74-1

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 beta-BHC CAS #: 319-85-7

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

6.675	6.664	0.011	3438	0.00281	0.9380	0.00- 20.00	100.00
8.287	8.298	-0.011	27561	0.01769	5.897	0.00- 20.00	801.66
0.000	9.567	-9.567	0	0.0000	0.0000	0.00- 20.00	0.00
0.000	9.852	-9.852	0	0.0000	0.0000	0.00- 20.00	0.00

Average of Peak Concentrations = 3.417

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

```
--------------------------------------------------------------------------------
   15 Endosulfan I                                CAS #: 959-98-8
9.906    9.917   -0.011           13599  2e-004  0.06352
--------------------------------------------------------------------------------
   16 4,4'-DDE                                    CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

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```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

---

19 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

11.802 11.816 -0.014 2478 1.e-004 0.03387

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
29 Endrin ketone					CAS #: 53494-70-5		

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\100114-1.b\010F1001.D

Date : 14-JAN-2010 12:46

Client ID:

Instrument: a2hp9.i

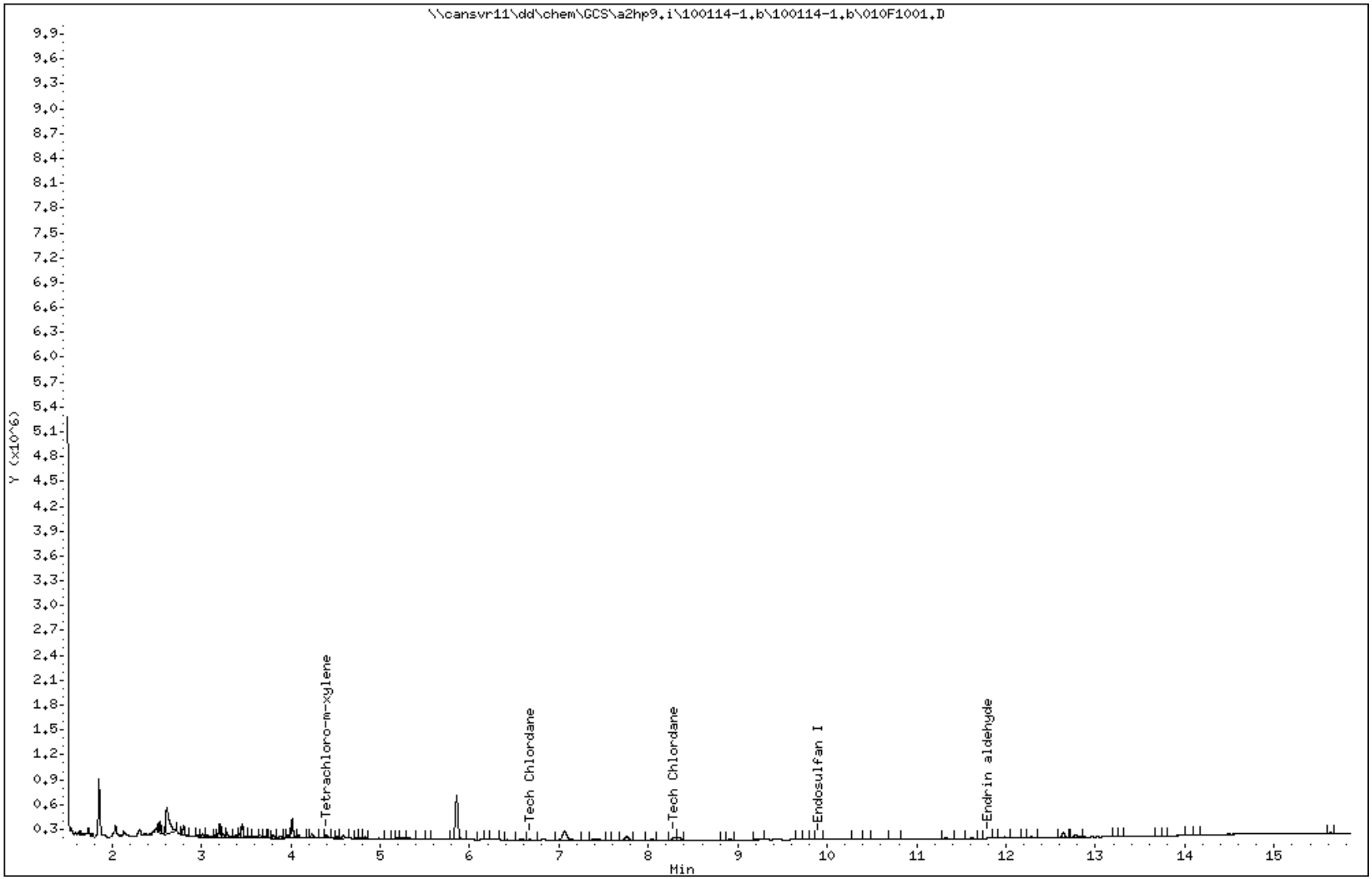
Sample Info: TOX SOLID MDL BL

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 14-JAN-2010 12:46
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100114-1.b/100114-1.b/010F1001.D
Lab Sample ID: TOX SOLID MDL BL
Misc. Info: TOX SOLID MDL VERIFICATION BLANK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100114-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.402	62602	0.001	0.007 ug/Kg
2)	Diallate	NOT DETECTED	Expected RT = 5.042		
3)	Hexachlorobenzene	NOT DETECTED	Expected RT = 5.105		
4)	alpha-BHC	NOT DETECTED	Expected RT = 5.351		
5)	gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 6.022		
6)	beta-BHC	NOT DETECTED	Expected RT = 6.232		
9)	Tech Chlordane	6.675	11551	0.003	0.938 ug/Kg
7)	delta-BHC	NOT DETECTED	Expected RT = 6.907		
8)	Heptachlor	NOT DETECTED	Expected RT = 7.023		
10)	Aldrin	NOT DETECTED	Expected RT = 7.853		
11)	Isodrin	NOT DETECTED	Expected RT = 8.772		
12)	Heptachlor epoxide	NOT DETECTED	Expected RT = 9.186		
13)	gamma-Chlordane	NOT DETECTED	Expected RT = 9.568		
14)	alpha-Chlordane	NOT DETECTED	Expected RT = 9.852		
15)	Endosulfan I	9.906	13599	0.000	0.064 ug/Kg
16)	4,4'-DDE	NOT DETECTED	Expected RT = 10.256		
17)	Dieldrin	NOT DETECTED	Expected RT = 10.414		
18)	Endrin	NOT DETECTED	Expected RT = 10.913		
19)	Chlorobenzilate	NOT DETECTED	Expected RT = 11.058		
20)	Kepone	NOT DETECTED	Expected RT = 11.092		
21)	4,4'-DDD	NOT DETECTED	Expected RT = 11.222		
22)	Endosulfan II	NOT DETECTED	Expected RT = 11.272		
23)	Toxaphene	NOT DETECTED	Expected RT = 11.418		
24)	4,4'-DDT	NOT DETECTED	Expected RT = 11.702		
25)	Endrin aldehyde	11.803	8110	0.000	0.034 ug/Kg
26)	Endosulfan sulfate	NOT DETECTED	Expected RT = 12.236		
27)	Methoxychlor	NOT DETECTED	Expected RT = 12.749		
28)	Mirex	NOT DETECTED	Expected RT = 12.864		
29)	Endrin ketone	NOT DETECTED	Expected RT = 12.976		
30)	Decachlorobiphenyl	NOT DETECTED	Expected RT = 14.722		

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RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-035
Prep Date.....: 03/02/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0060035
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
gamma-BHC (Lindane)	**92**	**(60 - 125)**	**SW846 8081A**
Heptachlor	**90**	**(50 - 140)**	**SW846 8081A**
Aldrin	**89**	**(45 - 140)**	**SW846 8081A**
Dieldrin	**95**	**(65 - 125)**	**SW846 8081A**
Endrin	**96**	**(60 - 135)**	**SW846 8081A**
4,4'-DDT	**89**	**(45 - 140)**	**SW846 8081A**
alpha-BHC	**90**	**(60 - 125)**	**SW846 8081A**
beta-BHC	**90**	**(60 - 125)**	**SW846 8081A**
delta-BHC	**91**	**(55 - 130)**	**SW846 8081A**
Heptachlor epoxide	**91**	**(65 - 130)**	**SW846 8081A**
Endosulfan I	**79**	**(15 - 135)**	**SW846 8081A**
4,4'-DDE	**95**	**(70 - 125)**	**SW846 8081A**
Endosulfan II	**84**	**(35 - 140)**	**SW846 8081A**
4,4'-DDD	**99**	**(30 - 135)**	**SW846 8081A**
Endosulfan sulfate	**94**	**(60 - 135)**	**SW846 8081A**
Methoxychlor	**89**	**(55 - 145)**	**SW846 8081A**
Endrin ketone	**89**	**(65 - 135)**	**SW846 8081A**
Endrin aldehyde	**76**	**(35 - 145)**	**SW846 8081A**
alpha-Chlordane	**92**	**(65 - 120)**	**SW846 8081A**
gamma-Chlordane	**94**	**(65 - 125)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(70 - 125)
Decachlorobiphenyl	93	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-035
Prep Date.....: 03/02/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0060035
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
gamma-BHC (Lindane)	**33**	**31**	**ug/kg**	**92**	**SW846 8081A**
Heptachlor	**33**	**30**	**ug/kg**	**90**	**SW846 8081A**
Aldrin	**33**	**30**	**ug/kg**	**89**	**SW846 8081A**
Dieldrin	**33**	**32**	**ug/kg**	**95**	**SW846 8081A**
Endrin	**33**	**32**	**ug/kg**	**96**	**SW846 8081A**
4,4'-DDT	**33**	**30**	**ug/kg**	**89**	**SW846 8081A**
alpha-BHC	**33**	**30**	**ug/kg**	**90**	**SW846 8081A**
beta-BHC	**33**	**30**	**ug/kg**	**90**	**SW846 8081A**
delta-BHC	**33**	**30**	**ug/kg**	**91**	**SW846 8081A**
Heptachlor epoxide	**33**	**30**	**ug/kg**	**91**	**SW846 8081A**
Endosulfan I	**33**	**26**	**ug/kg**	**79**	**SW846 8081A**
4,4'-DDE	**33**	**32**	**ug/kg**	**95**	**SW846 8081A**
Endosulfan II	**33**	**28**	**ug/kg**	**84**	**SW846 8081A**
4,4'-DDD	**33**	**33**	**ug/kg**	**99**	**SW846 8081A**
Endosulfan sulfate	**33**	**31**	**ug/kg**	**94**	**SW846 8081A**
Methoxychlor	**33**	**29**	**ug/kg**	**89**	**SW846 8081A**
Endrin ketone	**33**	**30**	**ug/kg**	**89**	**SW846 8081A**
Endrin aldehyde	**33**	**25**	**ug/kg**	**76**	**SW846 8081A**
alpha-Chlordane	**33**	**31**	**ug/kg**	**92**	**SW846 8081A**
gamma-Chlordane	**33**	**31**	**ug/kg**	**94**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(70 - 125)
Decachlorobiphenyl	93	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\038F3801.D
Lab Smp Id: LV6AP1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 15-MAR-2010 23:28
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV6AP1AC
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 09:26 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 38 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.795	3.794	0.001	1394333	0.01656	0.1656		
4 alpha-BHC						CAS #: 319-84-6	
4.497	4.495	0.002	12026648	0.09034	30.11		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.919	4.918	0.001	15188685	0.09200	30.67		
6 beta-BHC						CAS #: 319-85-7	
5.067	5.065	0.002	3615488	0.08942	29.81		
7 delta-BHC						CAS #: 319-86-8	
5.314	5.314	0.000	15084459	0.09100	30.33		
		Sum of Peak Concentrations =			30.33		
8 Heptachlor						CAS #: 76-44-8	
5.639	5.637	0.002	7100306	0.09018	30.06		

```
   10 Aldrin                                      CAS #: 309-00-2
6.165    6.165    0.000        13974518 0.08905    29.68
--------------------------------------------------------------------------------
```

				CONCENTRATIONS ON-COL ng	FINAL ug/Kg	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
12 Heptachlor epoxide						CAS #: 1024-57-3	
7.601	7.600	0.001	4211746	0.09061	30.20		
13 gamma-Chlordane						CAS #: 5103-74-2	
7.902	7.900	0.002	4678580	0.09393	31.31		
14 alpha-Chlordane						CAS #: 5103-71-9	
8.215	8.214	0.001	4732153	0.09222	30.74		
15 Endosulfan I						CAS #: 959-98-8	
8.470	8.470	0.000	3831867	0.07897	26.32		
16 4,4'-DDE						CAS #: 72-55-9	
8.539	8.539	0.000	13286740	0.09502	31.67		
17 Dieldrin						CAS #: 60-57-1	
8.983	8.983	0.000	13641695	0.09511	31.70		
18 Endrin						CAS #: 72-20-8	
9.408	9.407	0.001	5236913	0.09611	32.04		
20 4,4'-DDD						CAS #: 72-54-8	
9.720	9.720	0.000	11580073	0.09885	32.95		
22 Endosulfan II						CAS #: 33213-65-9	
9.829	9.830	-0.001	4390594	0.08368	27.89		
23 4,4'-DDT						CAS #: 50-29-3	
10.210	10.211	-0.001	9069721	0.08880	29.60		
25 Endrin aldehyde						CAS #: 7421-93-4	
10.584	10.584	0.000	3381519	0.07553	25.18		
27 Methoxychlor						CAS #: 72-43-5	
11.108	11.109	-0.001	4728393	0.08846	29.49		
28 Endosulfan sulfate						CAS #: 1031-07-8	
11.284	11.285	-0.001	10352463	0.09350	31.17		
29 Endrin ketone						CAS #: 53494-70-5	
11.679	11.679	0.000	5619635	0.08882	29.61		
$ 30 Decachlorobiphenyl						CAS #: 2051-24-3	
13.233	13.233	0.000	1104493	0.01859	0.1859		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\038F3801.D

Date : 15-MAR-2010 23:28

Client ID: INTRA-LAB CHECK

Instrument: a2hp9.i

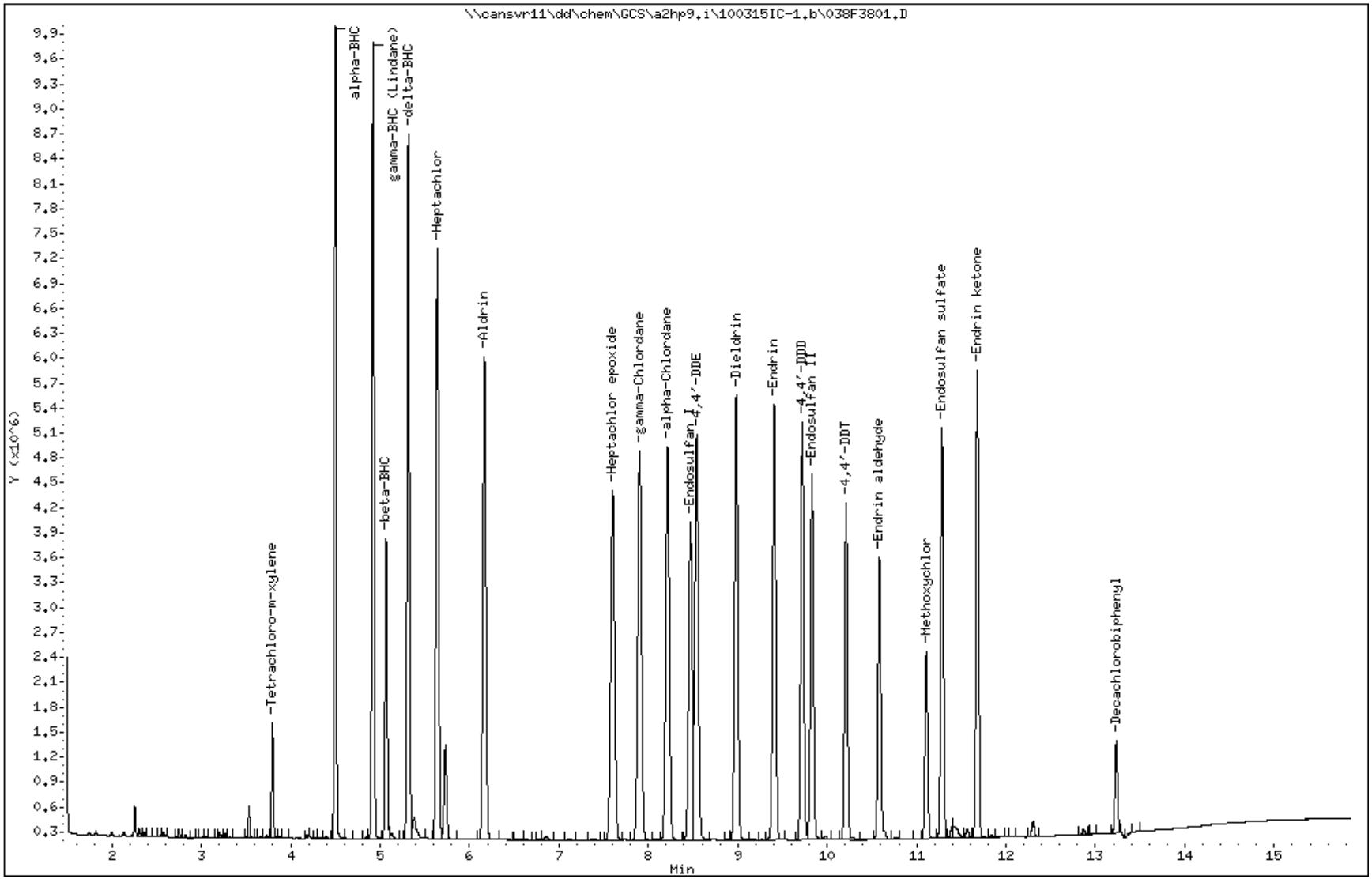
Sample Info: LV6AP1AC

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

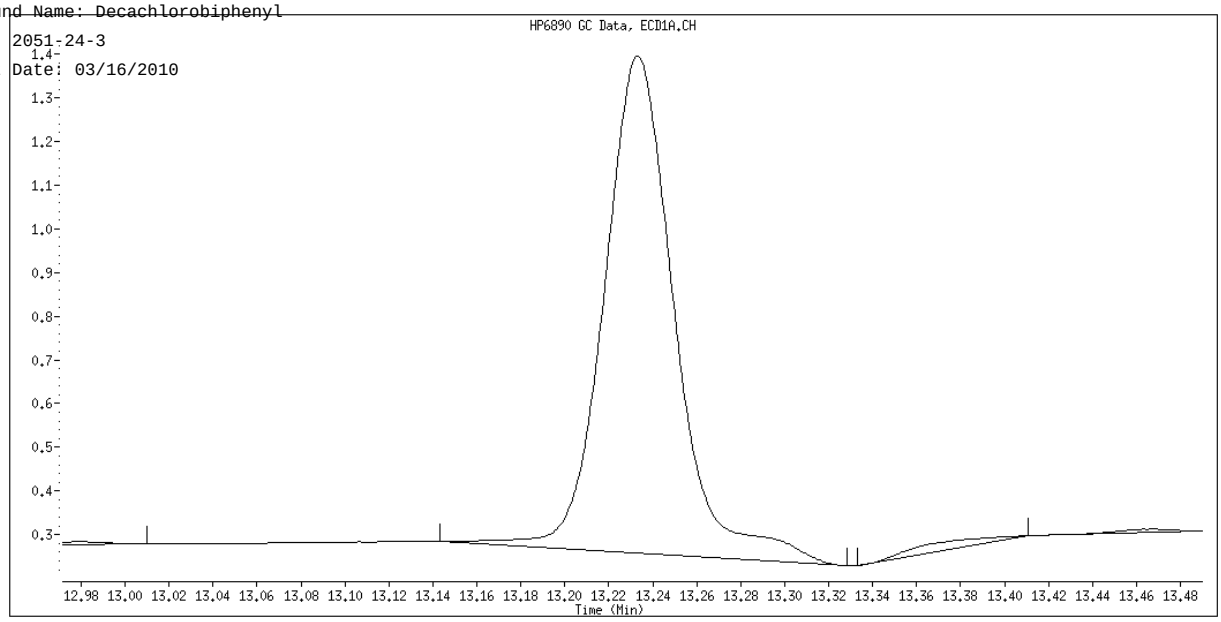


COMPOUNDS and EXP. RT REPORT

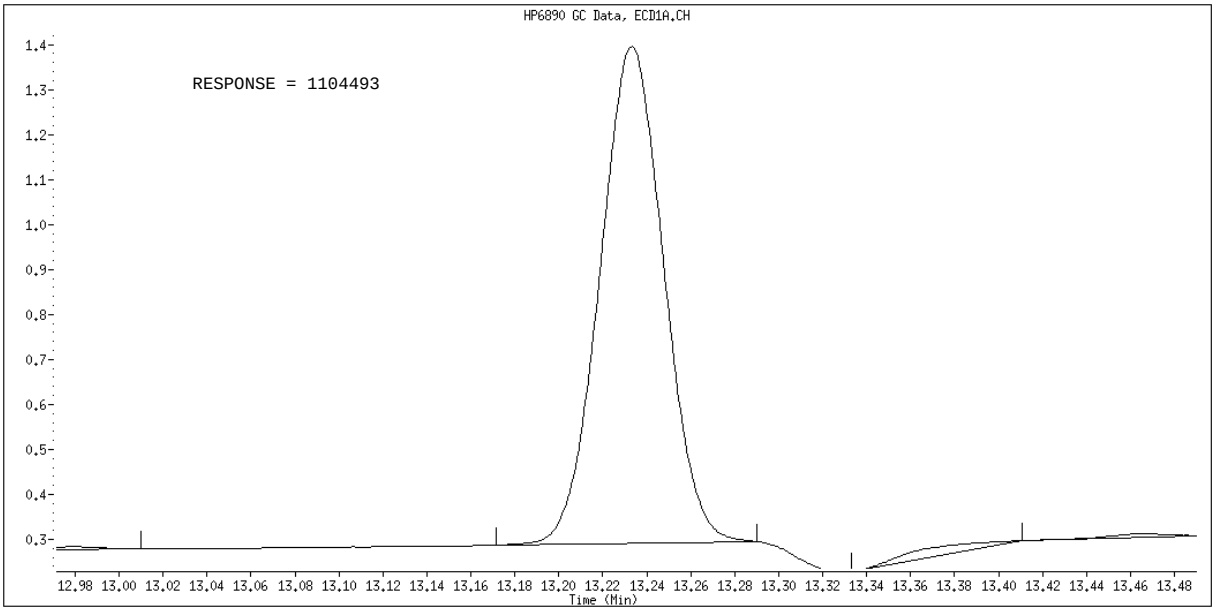
Operator: 093905 Date Acquired: 15-MAR-2010 23:28
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/038F3801.D
Lab Sample ID: LV6AP1AC
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.796	1821865	0.017	0.166 ug/Kg
4) alpha-BHC	4.497	16806036	0.090	30.113 ug/Kg
5) gamma-BHC (Lindane)	4.920	15188685	0.092	30.668 ug/Kg
6) beta-BHC	5.067	6044469	0.089	29.807 ug/Kg
7) delta-BHC	5.315	15084459	0.091	30.335 ug/Kg
8) Heptachlor	5.639	14699407	0.090	30.061 ug/Kg
10) Aldrin	6.166	13974518	0.089	29.684 ug/Kg
12) Heptachlor epoxide	7.602	12962110	0.091	30.204 ug/Kg
13) gamma-Chlordane	7.902	13707877	0.094	31.309 ug/Kg
14) alpha-Chlordane	8.216	13278754	0.092	30.741 ug/Kg
15) Endosulfan I	8.471	10408624	0.079	26.323 ug/Kg
16) 4,4'-DDE	8.540	13286740	0.095	31.675 ug/Kg
17) Dieldrin	8.983	13641695	0.095	31.703 ug/Kg
18) Endrin	9.408	12817797	0.096	32.038 ug/Kg
20) 4,4'-DDD	9.721	11580073	0.099	32.950 ug/Kg
22) Endosulfan II	9.829	10332979	0.084	27.894 ug/Kg
23) 4,4'-DDT	10.211	9069721	0.089	29.599 ug/Kg
25) Endrin aldehyde	10.584	7622443	0.076	25.177 ug/Kg
27) Methoxychlor	11.108	4728393	0.088	29.488 ug/Kg
28) Endosulfan sulfate	11.284	10352463	0.094	31.168 ug/Kg
29) Endrin ketone	11.679	11674138	0.089	29.607 ug/Kg
30) Decachlorobiphenyl	13.233	2232699	0.019	0.186 ug/Kg

Data File Name: 038F3801.D
Inj. Date and Time: 15-MAR-2010 23:28
Instrument ID: a2hp9.i
Client ID: INTRA-LAB CHECK
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\038F3801.D
Lab Smp Id: LV6AP1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 15-MAR-2010 23:28
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV6AP1AC
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 10:31 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 38 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.367	0.001	804932	0.01646	0.1646		
4 alpha-BHC						CAS #: 319-84-6	
5.285	5.285	0.000	9963128	0.09253	30.84		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.940	5.939	0.001	9068316	0.09221	30.74		
6 beta-BHC						CAS #: 319-85-7	
6.144	6.144	0.000	1615789	0.08814	29.38		
7 delta-BHC						CAS #: 319-86-8	
6.799	6.799	0.000	9082693	0.09263	30.88		
8 Heptachlor						CAS #: 76-44-8	
6.917	6.916	0.001	8517389	0.08971	29.90		

```
   10 Aldrin                                        CAS #: 309-00-2
7.741    7.740    0.001         2695089 0.08979    29.93
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.089	9.088	0.001	7375364	0.09094	30.31		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.474	9.474	0.000	7431215	0.09157	30.52		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.761	9.760	0.001	7169996	0.09052	30.17		
15 Endosulfan I					CAS #: 959-98-8		
9.824	9.824	0.000	5725452	0.07701	25.67		
16 4,4'-DDE					CAS #: 72-55-9		
10.168	10.168	0.000	3119594	0.09449	31.50		
17 Dieldrin					CAS #: 60-57-1		
10.322	10.323	-0.001	7257208	0.09447	31.49		
18 Endrin					CAS #: 72-20-8		
10.824	10.823	0.001	6672062	0.09498	31.66		
21 4,4'-DDD					CAS #: 72-54-8		
11.140	11.141	-0.001	2956942	0.10035	33.45		
22 Endosulfan II					CAS #: 33213-65-9		
11.184	11.183	0.001	2631286	0.08145	27.15		
24 4,4'-DDT					CAS #: 50-29-3		
11.624	11.623	0.001	2176961	0.08558	28.53		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.730	11.731	-0.001	3913775	0.07213	24.04		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.153	12.153	0.000	2831518	0.09444	31.48		
27 Methoxychlor					CAS #: 72-43-5		
12.671	12.673	-0.002	2402768	0.09094	30.31		
29 Endrin ketone					CAS #: 53494-70-5		
12.890	12.892	-0.002	6141232	0.08822	29.40		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.643	14.643	0.000	1199264	0.01870	0.1870		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\038F3801.D

Page 1

Date : 15-MAR-2010 23:28

Client ID: INTRA-LAB CHECK

Instrument: a2hp9.i

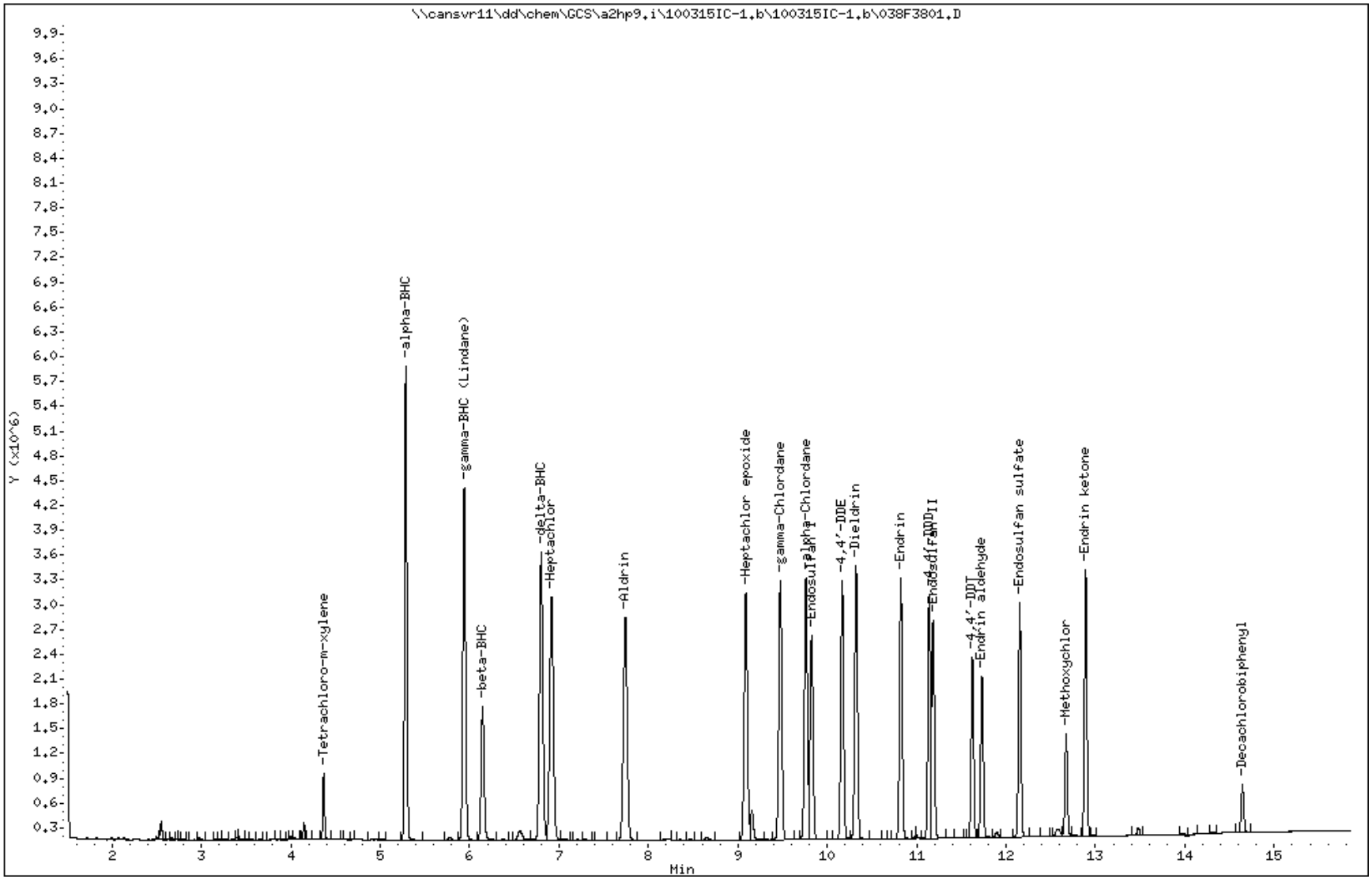
Sample Info: LV6AP1AC

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 23:28
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/038F3801.D
Lab Sample ID: LV6AP1AC
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.368	1083570	0.016	0.165 ug/Kg
4) alpha-BHC	5.286	9963128	0.093	30.844 ug/Kg
5) gamma-BHC (Lindane)	5.941	9068316	0.092	30.735 ug/Kg
6) beta-BHC	6.145	3758251	0.088	29.380 ug/Kg
7) delta-BHC	6.800	9082693	0.093	30.875 ug/Kg
8) Heptachlor	6.917	8517389	0.090	29.904 ug/Kg
10) Aldrin	7.742	8020694	0.090	29.931 ug/Kg
12) Heptachlor epoxide	9.089	7375364	0.091	30.313 ug/Kg
13) gamma-Chlordane	9.475	7431215	0.092	30.525 ug/Kg
14) alpha-Chlordane	9.762	7169996	0.091	30.173 ug/Kg
15) Endosulfan I	9.825	5725452	0.077	25.670 ug/Kg
16) 4,4'-DDE	10.168	6771265	0.094	31.498 ug/Kg
17) Dieldrin	10.322	7257208	0.094	31.490 ug/Kg
18) Endrin	10.824	6672062	0.095	31.660 ug/Kg
21) 4,4'-DDD	11.141	5922725	0.100	33.449 ug/Kg
22) Endosulfan II	11.184	5528422	0.081	27.151 ug/Kg
24) 4,4'-DDT	11.624	4259832	0.086	28.528 ug/Kg
25) Endrin aldehyde	11.731	3913775	0.072	24.044 ug/Kg
26) Endosulfan sulfate	12.153	5539468	0.094	31.480 ug/Kg
27) Methoxychlor	12.672	2402768	0.091	30.312 ug/Kg
29) Endrin ketone	12.891	6141232	0.088	29.406 ug/Kg
30) Decachlorobiphenyl	14.643	1199264	0.019	0.187 ug/Kg

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AP1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0C010000-035

Prep Date.....: 03/02/10 **Final Wgt/Vol..:** 10 mL
Analysis Date..: 03/15/10 **Prep Batch #...:** 0060035
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	4.0	ug/kg	SW846 8081A
alpha-BHC	ND	2.5	ug/kg	SW846 8081A
beta-BHC	ND	3.5	ug/kg	SW846 8081A
delta-BHC	ND	4.0	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	2.5	ug/kg	SW846 8081A
alpha-Chlordane	ND	3.0	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	2.0	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	2.0	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	2.5	ug/kg	SW846 8081A
Endosulfan sulfate	ND	3.0	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	3.0	ug/kg	SW846 8081A
Endrin ketone	ND	2.0	ug/kg	SW846 8081A
Heptachlor	ND	3.5	ug/kg	SW846 8081A
Heptachlor epoxide	ND	2.5	ug/kg	SW846 8081A
Methoxychlor	ND	5.0	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(70 - 125)
Decachlorobiphenyl	98	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\037F3701.D
Lab Smp Id: LV6AP1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 15-MAR-2010 23:04
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV6AP1AA
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 09:26 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 37 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
3.794	3.794	0.000	1503203	0.01786	0.1786		
2 Hexachlorobenzene					CAS #: 118-74-1		
4.279	4.262	0.017	11718				
3 Diallate					CAS #: 2303-16-4		
4.390	4.369	0.021	22035			0.00- 20.00	100.00
4.544	4.544	0.000	10769			0.00- 20.00	48.87
4 alpha-BHC					CAS #: 319-84-6		
4.518	4.495	0.023	10786	8e-005	0.02701		
5 gamma-BHC (Lindane)					CAS #: 58-89-9		

Peaks not detected for Quant. or Qual. signal(s).

6 beta-BHC CAS #: 319-85-7

```
5.045    5.065   -0.020           8674  2e-004  0.07151
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

6.159	6.165	-0.006	10305	7e-005	0.02189		

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

Peaks not detected for Quant. or Qual. signal(s).

---

14 alpha-Chlordane CAS #: 5103-71-9

8.220	8.214	0.006	97519	0.00190	0.6335		

---

15 Endosulfan I CAS #: 959-98-8

Peaks not detected for Quant. or Qual. signal(s).

---

16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

8.954	8.983	-0.029	40446	3e-004	0.09400		

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

19 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

20 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

24 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

23 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Mirex CAS #: 2385-85-5

Peaks not detected for Quant. or Qual. signal(s).

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

---

28 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

29 Endrin ketone CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

```
13.231  13.233   -0.002         1160567 0.01953   0.1953                      (M)
-------------------------------------------------------------------------------
```

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\037F3701.D

Date : 15-MAR-2010 23:04

Client ID: INTRA-LAB BLANK

Instrument: a2hp9.i

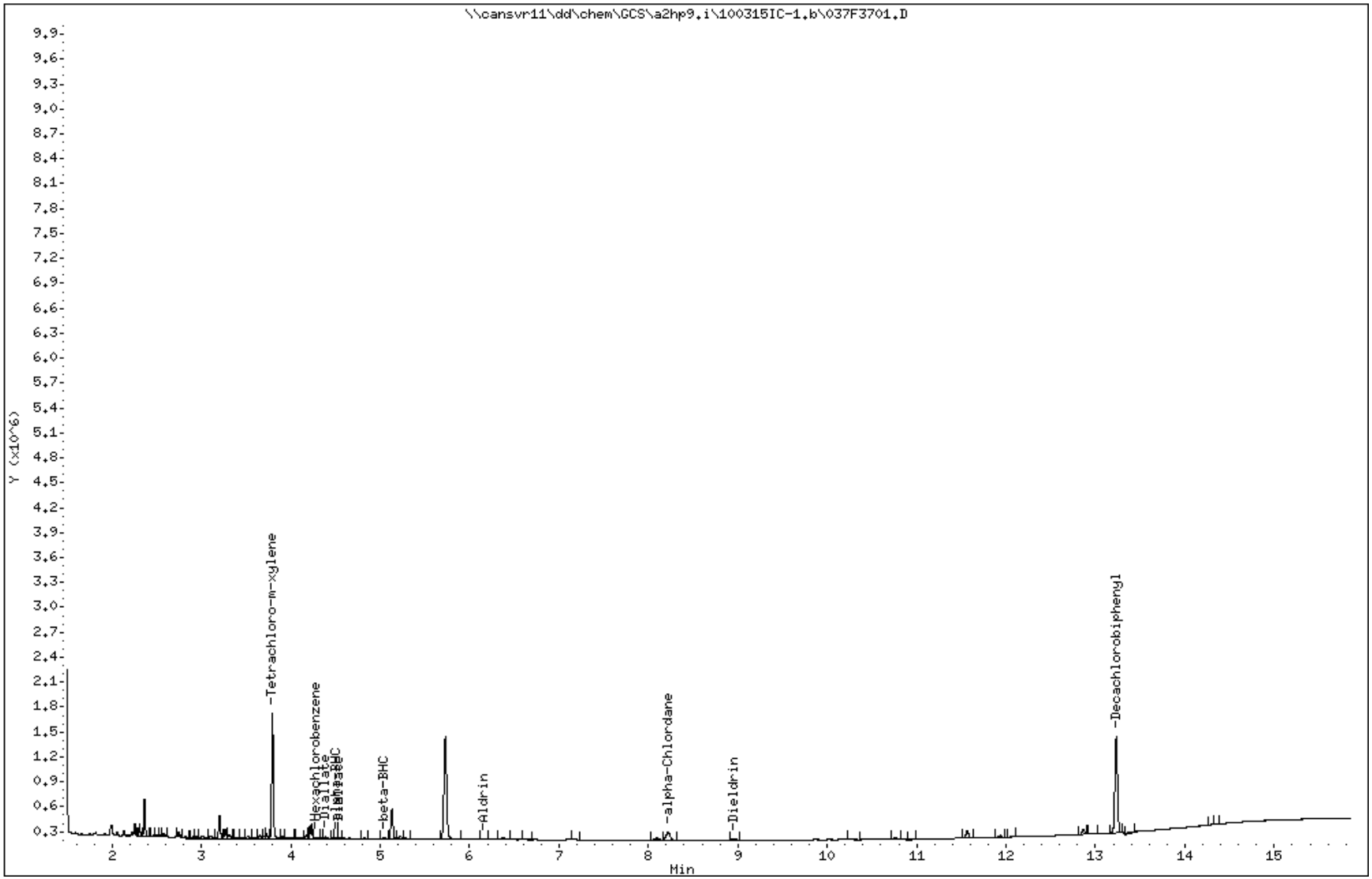
Sample Info: LV6AP1AA

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

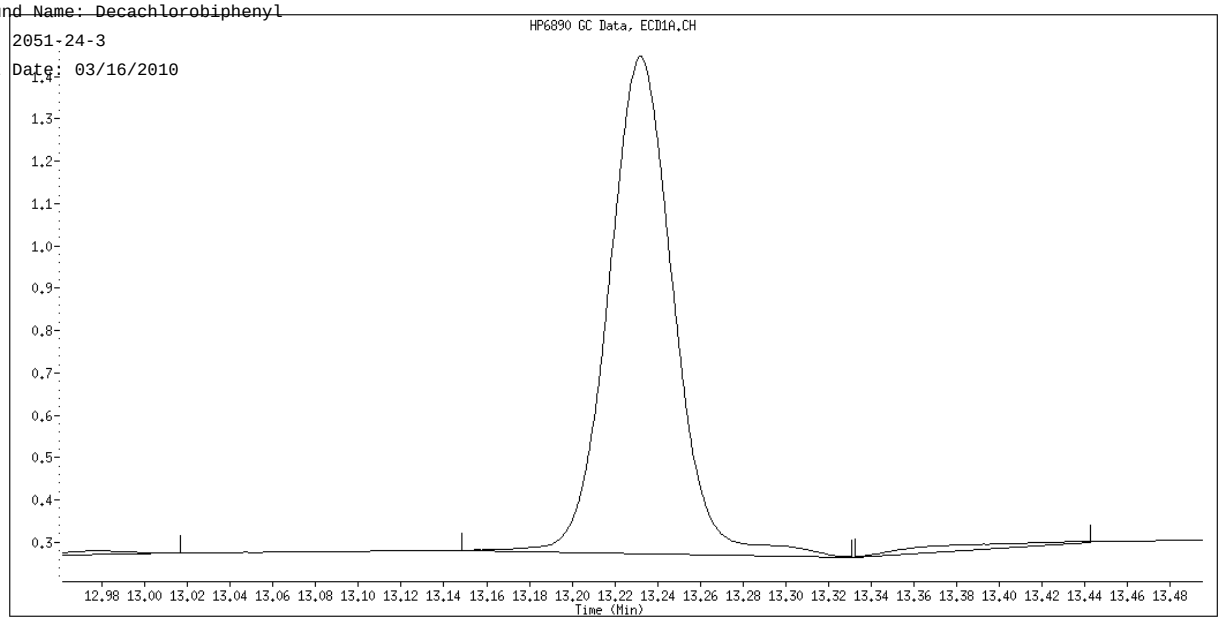


COMPOUNDS and EXP. RT REPORT

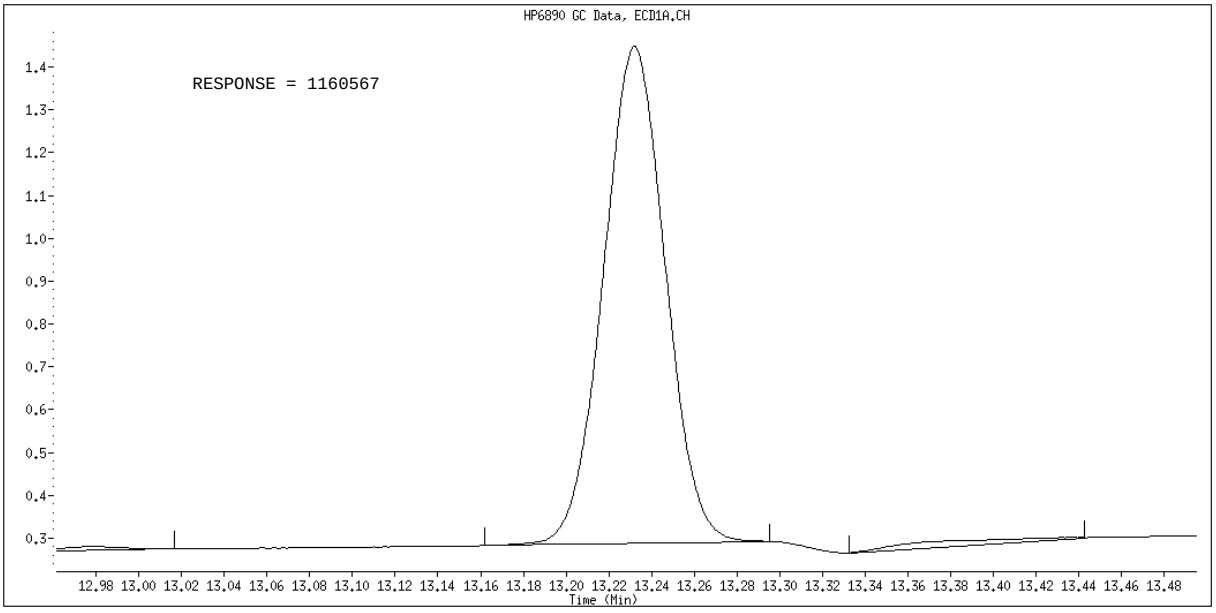
Operator: 093905 Date Acquired: 15-MAR-2010 23:04
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/037F3701.D
Lab Sample ID: LV6AP1AA
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.795	2023550	0.018	0.179 ug/Kg
2) Hexachlorobenzene	4.279	40980	0.000	0.000 ug/Kg
3) Diallate	4.391	46136	0.000	0.000 ug/Kg
4) alpha-BHC	4.518	21752	0.000	0.027 ug/Kg
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 4.918		
6) beta-BHC	5.046	21369	0.000	0.072 ug/Kg
7) delta-BHC	NOT DETECTED	Expected RT = 5.314		
9) Tech Chlordane	NOT DETECTED	Expected RT = 5.371		
8) Heptachlor	NOT DETECTED	Expected RT = 5.638		
10) Aldrin	6.159	10305	0.000	0.022 ug/Kg
11) Isodrin	NOT DETECTED	Expected RT = 6.872		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 7.600		
13) gamma-Chlordane	NOT DETECTED	Expected RT = 7.901		
14) alpha-Chlordane	8.221	289296	0.002	0.633 ug/Kg
15) Endosulfan I	NOT DETECTED	Expected RT = 8.471		
16) 4,4'-DDE	NOT DETECTED	Expected RT = 8.539		
17) Dieldrin	8.954	40446	0.000	0.094 ug/Kg
18) Endrin	NOT DETECTED	Expected RT = 9.408		
19) Kepone	NOT DETECTED	Expected RT = 9.500		
20) 4,4'-DDD	NOT DETECTED	Expected RT = 9.720		
22) Endosulfan II	NOT DETECTED	Expected RT = 9.830		
21) Chlorobenzilate	NOT DETECTED	Expected RT = 9.844		
24) Toxaphene	NOT DETECTED	Expected RT = 9.952		
23) 4,4'-DDT	NOT DETECTED	Expected RT = 10.212		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 10.584		
26) Mirex	NOT DETECTED	Expected RT = 10.813		
27) Methoxychlor	NOT DETECTED	Expected RT = 11.109		
28) Endosulfan sulfate	NOT DETECTED	Expected RT = 11.285		
29) Endrin ketone	NOT DETECTED	Expected RT = 11.679		
30) Decachlorobiphenyl	13.232	2337470	0.020	0.195 ug/Kg

Data File Name: 037F3701.D
Inj. Date and Time: 15-MAR-2010 23:04
Instrument ID: a2hp9.i
Client ID: INTRA-LAB BLANK
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\037F3701.D
Lab Smp Id: LV6AP1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 15-MAR-2010 23:04
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV6AP1AA
Misc Info :
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 10:31 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 37 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 19-pestap9.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.000	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.368	4.367	0.001	931831	0.01906	0.1906		

2 Diallate CAS #: 2303-16-4

Peaks not detected for Quant. or Qual. signal(s).

3 Hexachlorobenzene CAS #: 118-74-1

Peaks not detected for Quant. or Qual. signal(s).

4 alpha-BHC CAS #: 319-84-6

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

5 gamma-BHC (Lindane) CAS #: 58-89-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 beta-BHC CAS #: 319-85-7

6.172	6.144	0.028	6252	3e-004	0.1137		

---

9 Tech Chlordane CAS #: 57-74-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 delta-BHC CAS #: 319-86-8

Peaks not detected for Quant. or Qual. signal(s).

---

8 Heptachlor CAS #: 76-44-8

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aldrin CAS #: 309-00-2

Peaks not detected for Quant. or Qual. signal(s).

---

11 Isodrin CAS #: 465-73-6

Peaks not detected for Quant. or Qual. signal(s).

---

12 Heptachlor epoxide CAS #: 1024-57-3

Peaks not detected for Quant. or Qual. signal(s).

---

13 gamma-Chlordane CAS #: 5103-74-2

9.481	9.474	0.007	14552	2e-004	0.05977		

---

14 alpha-Chlordane CAS #: 5103-71-9

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

Peaks not detected for Quant. or Qual. signal(s).

---

16 4,4'-DDE CAS #: 72-55-9

Peaks not detected for Quant. or Qual. signal(s).

---

17 Dieldrin CAS #: 60-57-1

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

19 Chlorobenzilate CAS #: 510-15-6

Peaks not detected for Quant. or Qual. signal(s).

---

20 Kepone CAS #: 143-50-0

Peaks not detected for Quant. or Qual. signal(s).

---

18 Endrin CAS #: 72-20-8

Peaks not detected for Quant. or Qual. signal(s).

---

21 4,4'-DDD CAS #: 72-54-8

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endosulfan II CAS #: 33213-65-9

Peaks not detected for Quant. or Qual. signal(s).

---

23 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 4,4'-DDT CAS #: 50-29-3

Peaks not detected for Quant. or Qual. signal(s).

---

25 Endrin aldehyde CAS #: 7421-93-4

Peaks not detected for Quant. or Qual. signal(s).

---

26 Endosulfan sulfate CAS #: 1031-07-8

Peaks not detected for Quant. or Qual. signal(s).

---

28 Mirex CAS #: 2385-85-5

12.872 12.864 0.008 20432

---

27 Methoxychlor CAS #: 72-43-5

Peaks not detected for Quant. or Qual. signal(s).

```
--------------------------------------------------------------------------------
   29 Endrin ketone                               CAS #: 53494-70-5

Peaks not detected for Quant. or Qual. signal(s).

--------------------------------------------------------------------------------
$  30 Decachlorobiphenyl                          CAS #: 2051-24-3
14.642  14.643   -0.001         1251293 0.01952   0.1952
--------------------------------------------------------------------------------
```

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\037F3701.D Page 1

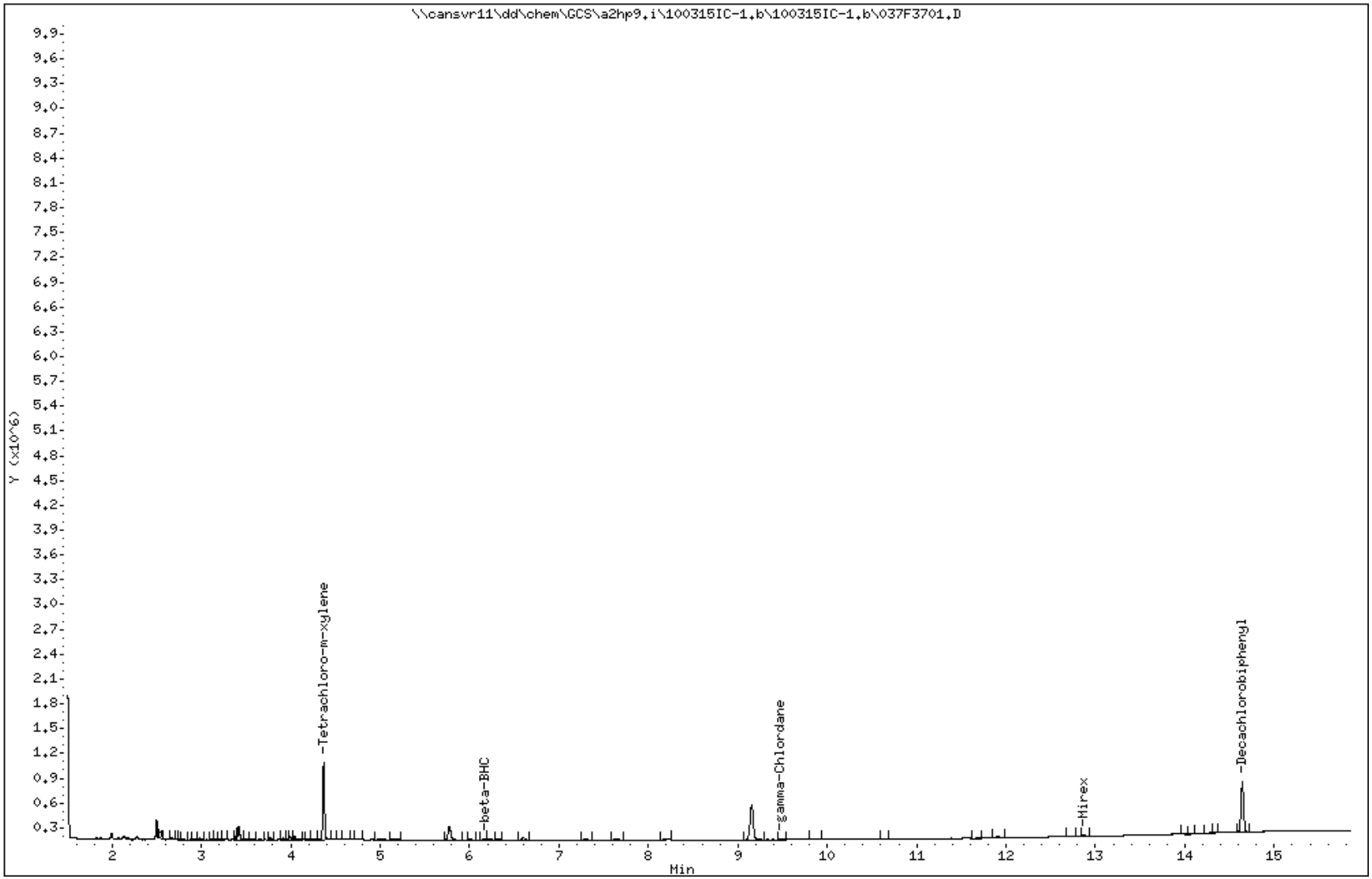
Date : 15-MAR-2010 23:04

Client ID: INTRA-LAB BLANK Instrument: a2hp9.i

Sample Info: LV6AP1AA

Volume Injected (uL): 1.0 Operator: 093905

Column phase: clp pesticides II Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 23:04
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/037F3701.D
Lab Sample ID: LV6AP1AA
Misc. Info:
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
23) Toxaphene	NOT DETECTED	Expected RT = 1.000		
1) Tetrachloro-m-xylene	4.368	1265073	0.019	0.191 ug/Kg
2) Diallate	NOT DETECTED	Expected RT = 5.042		
3) Hexachlorobenzene	NOT DETECTED	Expected RT = 5.105		
4) alpha-BHC	NOT DETECTED	Expected RT = 5.286		
5) gamma-BHC (Lindane)	NOT DETECTED	Expected RT = 5.940		
6) beta-BHC	6.172	14809	0.000	0.114 ug/Kg
9) Tech Chlordane	NOT DETECTED	Expected RT = 6.391		
7) delta-BHC	NOT DETECTED	Expected RT = 6.800		
8) Heptachlor	NOT DETECTED	Expected RT = 6.916		
10) Aldrin	NOT DETECTED	Expected RT = 7.741		
11) Isodrin	NOT DETECTED	Expected RT = 8.771		
12) Heptachlor epoxide	NOT DETECTED	Expected RT = 9.089		
13) gamma-Chlordane	9.482	14552	0.000	0.060 ug/Kg
14) alpha-Chlordane	NOT DETECTED	Expected RT = 9.761		
15) Endosulfan I	NOT DETECTED	Expected RT = 9.825		
16) 4,4'-DDE	NOT DETECTED	Expected RT = 10.169		
17) Dieldrin	NOT DETECTED	Expected RT = 10.323		
18) Endrin	NOT DETECTED	Expected RT = 10.824		
19) Chlorobenzilate	NOT DETECTED	Expected RT = 11.042		
20) Kepone	NOT DETECTED	Expected RT = 11.090		
21) 4,4'-DDD	NOT DETECTED	Expected RT = 11.141		
22) Endosulfan II	NOT DETECTED	Expected RT = 11.184		
24) 4,4'-DDT	NOT DETECTED	Expected RT = 11.624		
25) Endrin aldehyde	NOT DETECTED	Expected RT = 11.731		
26) Endosulfan sulfate	NOT DETECTED	Expected RT = 12.154		
27) Methoxychlor	NOT DETECTED	Expected RT = 12.674		
28) Mirex	12.872	37473	0.000	0.000 ug/Kg
29) Endrin ketone	NOT DETECTED	Expected RT = 12.892		
30) Decachlorobiphenyl	14.642	1251293	0.020	0.195 ug/Kg

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3KQ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-004 LV3KQ1CD-MSD
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 03/02/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0060035
Dilution Factor: 2 **Initial Wgt/Vol:** 30.01 g **Final Wgt/Vol..:** 10 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
gamma-BHC (Lindane)	85	(60 - 125)			SW846 8081A
	83	(60 - 125)	2.3	(0-36)	SW846 8081A
Heptachlor	83	(50 - 140)			SW846 8081A
	79	(50 - 140)	4.9	(0-44)	SW846 8081A
Aldrin	76	(45 - 140)			SW846 8081A
	78	(45 - 140)	2.0	(0-40)	SW846 8081A
Dieldrin	93	(65 - 125)			SW846 8081A
	87	(65 - 125)	6.3	(0-33)	SW846 8081A
Endrin	89	(60 - 135)			SW846 8081A
	81	(60 - 135)	9.8	(0-38)	SW846 8081A
4,4'-DDT	90	(45 - 140)			SW846 8081A
	89	(45 - 140)	0.53	(0-42)	SW846 8081A
alpha-BHC	89	(60 - 125)			SW846 8081A
	86	(60 - 125)	3.2	(0-40)	SW846 8081A
beta-BHC	86	(60 - 125)			SW846 8081A
	81	(60 - 125)	5.9	(0-43)	SW846 8081A
delta-BHC	75	(55 - 130)			SW846 8081A
	72	(55 - 130)	3.4	(0-34)	SW846 8081A
Heptachlor epoxide	89	(65 - 130)			SW846 8081A
	85	(65 - 130)	4.7	(0-43)	SW846 8081A
Endosulfan I	75	(15 - 135)			SW846 8081A
	70	(15 - 135)	6.1	(0-41)	SW846 8081A
4,4'-DDE	93	(70 - 125)			SW846 8081A
	85	(70 - 125)	8.9	(0-39)	SW846 8081A
Endosulfan II	84	(35 - 140)			SW846 8081A
	87	(35 - 140)	4.2	(0-27)	SW846 8081A
4,4'-DDD	100	(30 - 135)			SW846 8081A
	79	(30 - 135)	24	(0-35)	SW846 8081A
Endosulfan sulfate	95	(60 - 135)			SW846 8081A
	79	(60 - 135)	18	(0-34)	SW846 8081A
Methoxychlor	97	(55 - 145)			SW846 8081A
	86	(55 - 145)	12	(0-41)	SW846 8081A
Endrin ketone	89	(65 - 135)			SW846 8081A
	80	(65 - 135)	11	(0-32)	SW846 8081A
Endrin aldehyde	69	(35 - 145)			SW846 8081A
	62	(35 - 145)	11	(0-29)	SW846 8081A
alpha-Chlordane	80	(65 - 120)			SW846 8081A
	75	(65 - 120)	6.2	(0-65)	SW846 8081A
gamma-Chlordane	90	(65 - 125)			SW846 8081A
	86	(65 - 125)	4.4	(0-36)	SW846 8081A

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3KQ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-004 LV3KQ1CD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(70 - 125)
	90	(70 - 125)
Decachlorobiphenyl	101	(55 - 130)
	91	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3KQ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-004 LV3KQ1CD-MSD
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 03/02/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0060035
Dilution Factor: 2 **Initial Wgt/Vol:** 30.01 g **Final Wgt/Vol..:** 10 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
gamma-BHC (Lindane)	ND	38	32	ug/kg	85		SW846 8081A
	ND	38	31	ug/kg	83	2.3	SW846 8081A
Heptachlor	ND	38	31	ug/kg	83		SW846 8081A
	ND	38	30	ug/kg	79	4.9	SW846 8081A
Aldrin	ND	38	29	ug/kg	76		SW846 8081A
	ND	38	29	ug/kg	78	2.0	SW846 8081A
Dieldrin	ND	38	35	ug/kg	93		SW846 8081A
	ND	38	33	ug/kg	87	6.3	SW846 8081A
Endrin	ND	38	33	ug/kg	89		SW846 8081A
	ND	38	30	ug/kg	81	9.8	SW846 8081A
4,4'-DDT	ND	38	34	ug/kg	90		SW846 8081A
	ND	38	34	ug/kg	89	0.53	SW846 8081A
alpha-BHC	ND	38	33	ug/kg	89		SW846 8081A
	ND	38	32	ug/kg	86	3.2	SW846 8081A
beta-BHC	ND	38	32	ug/kg	86		SW846 8081A
	ND	38	31	ug/kg	81	5.9	SW846 8081A
delta-BHC	ND	38	28	ug/kg	75		SW846 8081A
	ND	38	27	ug/kg	72	3.4	SW846 8081A
Heptachlor epoxide	ND	38	34	ug/kg	89		SW846 8081A
	ND	38	32	ug/kg	85	4.7	SW846 8081A
Endosulfan I	ND	38	28	ug/kg	75		SW846 8081A
	ND	38	26	ug/kg	70	6.1	SW846 8081A
4,4'-DDE	ND	38	35	ug/kg	93		SW846 8081A
	ND	38	32	ug/kg	85	8.9	SW846 8081A
Endosulfan II	ND	38	32	ug/kg	84		SW846 8081A
	ND	38	33	ug/kg	87	4.2	SW846 8081A
4,4'-DDD	ND	38	38	ug/kg	100		SW846 8081A
	ND	38	30	ug/kg	79	24	SW846 8081A
Endosulfan sulfate	ND	38	36	ug/kg	95		SW846 8081A
	ND	38	30	ug/kg	79	18	SW846 8081A
Methoxychlor	ND	38	37	ug/kg	97		SW846 8081A
	ND	38	32	ug/kg	86	12	SW846 8081A
Endrin ketone	ND	38	33	ug/kg	89		SW846 8081A
	ND	38	30	ug/kg	80	11	SW846 8081A
Endrin aldehyde	ND	38	26	ug/kg	69		SW846 8081A
	ND	38	23	ug/kg	62	11	SW846 8081A
alpha-Chlordane	ND	38	30	ug/kg	80		SW846 8081A
	ND	38	28	ug/kg	75	6.2	SW846 8081A
gamma-Chlordane	ND	38	34	ug/kg	90		SW846 8081A
	ND	38	32	ug/kg	86	4.4	SW846 8081A

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3KQ1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-004 LV3KQ1CD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(70 - 125)
	90	(70 - 125)
Decachlorobiphenyl	101	(55 - 130)
	91	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\038F3801.D
Lab Smp Id: LV3KQ1CC Client Smp ID: ATASB-008-5133-SO
Inj Date : 11-MAR-2010 16:28
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV3KQ1CC,2
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment   :
Method   : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Meth Date : 12-Mar-2010 06:35 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 38 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.010	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.797	3.796	0.001	671870	0.00829	0.1657		
4 alpha-BHC						CAS #: 319-84-6	
4.499	4.498	0.001	5699220	0.04447	29.63		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.923	4.921	0.002	6759142	0.04259	28.38		
6 beta-BHC						CAS #: 319-85-7	
5.070	5.069	0.001	1674498	0.04305	28.69		
7 delta-BHC						CAS #: 319-86-8	
5.319	5.316	0.003	5829744	0.03737	24.91		
		Sum of Peak Concentrations =			24.91		
8 Heptachlor						CAS #: 76-44-8	
5.642	5.641	0.001	2997737	0.04138	27.58		

```
--------------------------------------------------------------------------------
   10 Aldrin                                      CAS #: 309-00-2
6.173    6.169    0.004         5803221 0.03814    25.42
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.608	7.605	0.003	1994291	0.04457	29.70		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.910	7.906	0.004	2140321	0.04503	30.01		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.222	8.219	0.003	1947608	0.03976	26.50		
15 Endosulfan I					CAS #: 959-98-8		
8.478	8.475	0.003	1733091	0.03735	24.89		
16 4,4'-DDE					CAS #: 72-55-9		
8.546	8.544	0.002	5941871	0.04649	30.98		
17 Dieldrin					CAS #: 60-57-1		
8.989	8.986	0.003	6316612	0.04637	30.90		
18 Endrin					CAS #: 72-20-8		
9.415	9.410	0.005	2211391	0.04439	29.58		
20 4,4'-DDD					CAS #: 72-54-8		
9.726	9.724	0.002	4804723	0.05012	33.40		
22 Endosulfan II					CAS #: 33213-65-9		
9.836	9.833	0.003	2062544	0.04189	27.92		
23 4,4'-DDT					CAS #: 50-29-3		
10.216	10.213	0.003	4694277	0.04486	29.90		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.589	10.587	0.002	1424668	0.03438	22.91		
27 Methoxychlor					CAS #: 72-43-5		
11.113	11.110	0.003	2456721	0.04852	32.34		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.291	11.288	0.003	4730703	0.04727	31.50		
29 Endrin ketone					CAS #: 53494-70-5		
11.684	11.681	0.003	2638493	0.04449	29.65		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.239	13.235	0.004	545200	0.01006	0.2012		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\038F3801.D

Page 1

Date : 11-MAR-2010 16:28

Client ID: ATASB-008-5133-SO

Instrument: a2hp9.i

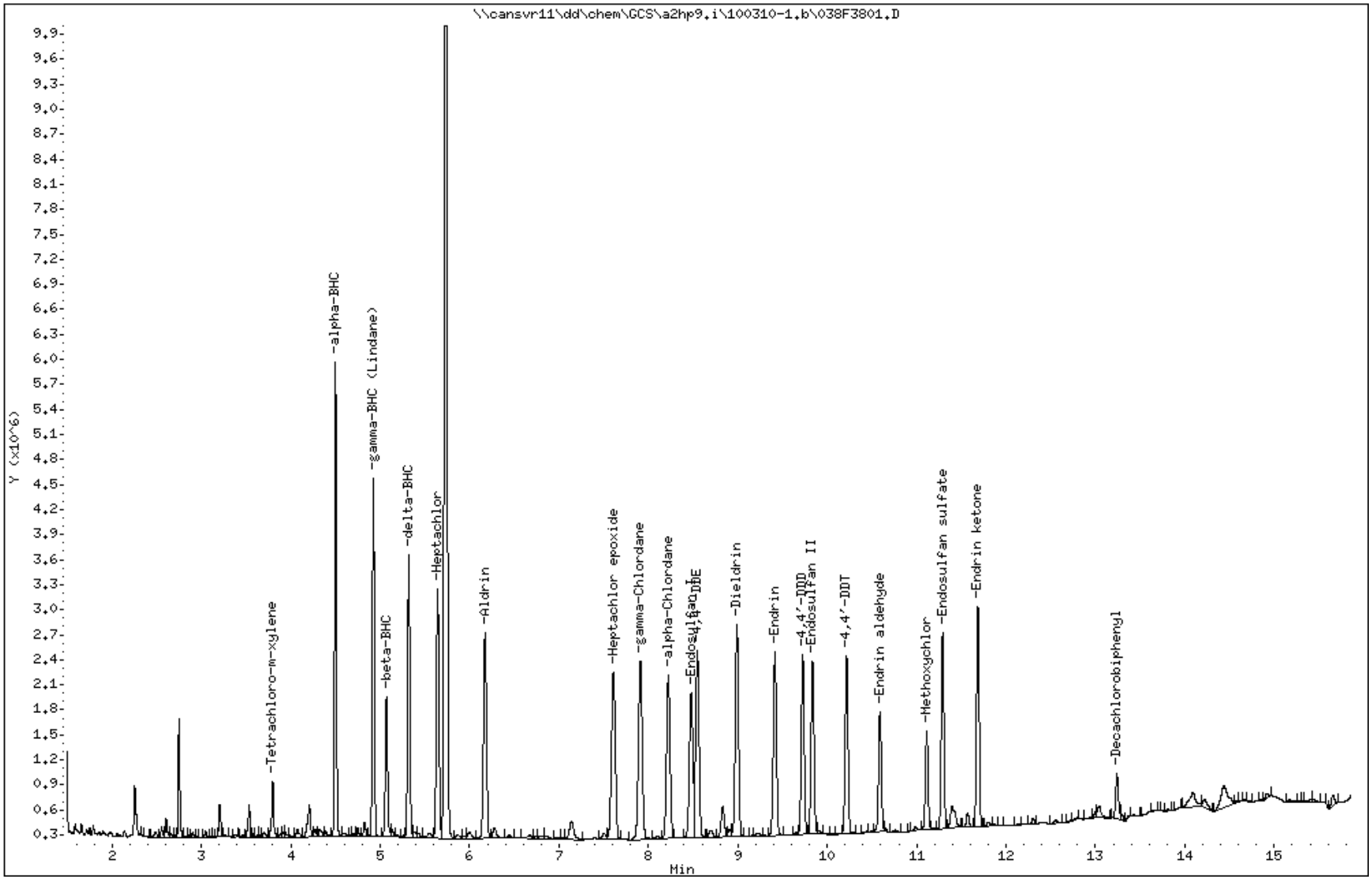
Sample Info: LV3KQ1CC,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

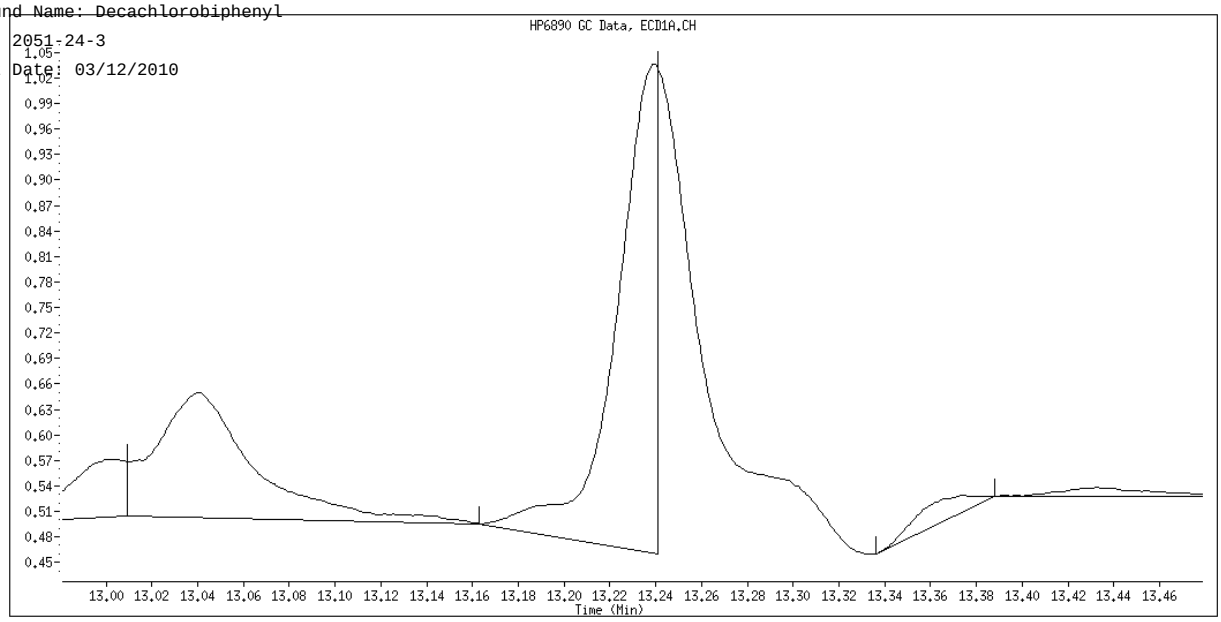


COMPOUNDS and EXP. RT REPORT

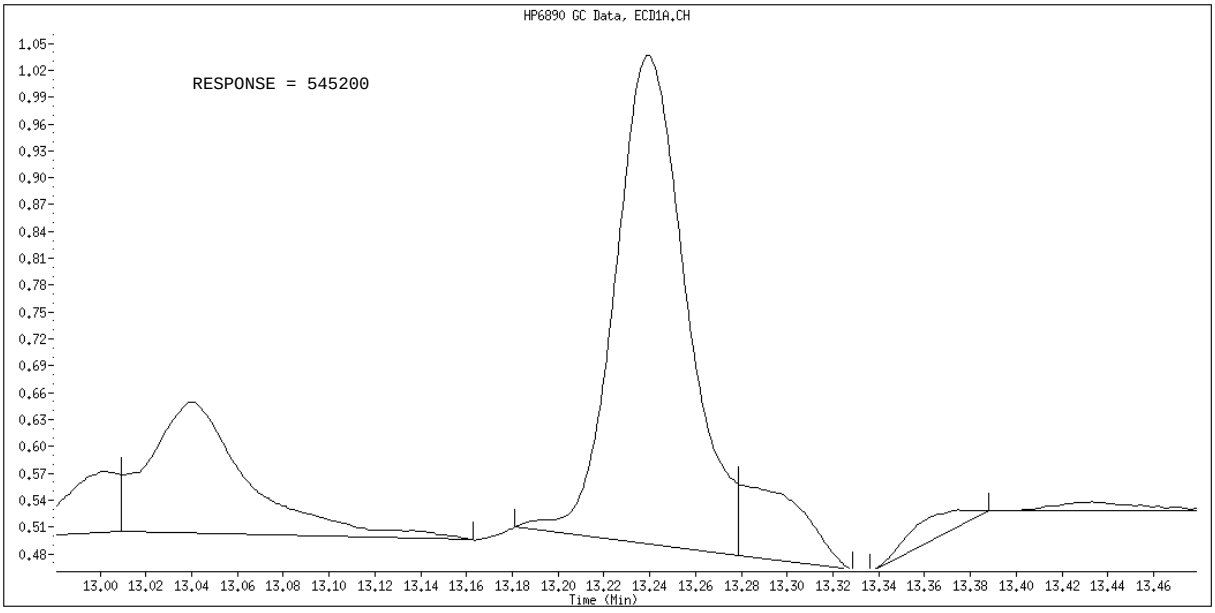
Operator: 093905 Date Acquired: 11-MAR-2010 16:28
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/038F3801.D
Lab Sample ID: LV3KQ1CC
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.798	1034177	0.008	0.166 ug/Kg
4) alpha-BHC	4.499	8005732	0.044	29.634 ug/Kg
5) gamma-BHC (Lindane)	4.924	6759142	0.043	28.382 ug/Kg
6) beta-BHC	5.070	2940135	0.043	28.689 ug/Kg
7) delta-BHC	5.319	5829744	0.037	24.908 ug/Kg
8) Heptachlor	5.643	6168908	0.041	27.577 ug/Kg
10) Aldrin	6.174	5803221	0.038	25.415 ug/Kg
12) Heptachlor epoxide	7.609	5989314	0.045	29.701 ug/Kg
13) gamma-Chlordane	7.910	6345989	0.045	30.013 ug/Kg
14) alpha-Chlordane	8.223	5352207	0.040	26.497 ug/Kg
15) Endosulfan I	8.479	4697564	0.037	24.894 ug/Kg
16) 4,4'-DDE	8.547	5941871	0.046	30.983 ug/Kg
17) Dieldrin	8.989	6316612	0.046	30.906 ug/Kg
18) Endrin	9.415	5404074	0.044	29.586 ug/Kg
20) 4,4'-DDD	9.726	4804723	0.050	33.399 ug/Kg
22) Endosulfan II	9.836	4708518	0.042	27.915 ug/Kg
23) 4,4'-DDT	10.217	4694277	0.045	29.896 ug/Kg
25) Endrin aldehyde	10.589	3127634	0.034	22.910 ug/Kg
27) Methoxychlor	11.114	2456721	0.049	32.336 ug/Kg
28) Endosulfan sulfate	11.291	4730703	0.047	31.503 ug/Kg
29) Endrin ketone	11.684	5336215	0.044	29.651 ug/Kg
30) Decachlorobiphenyl	13.239	1182851	0.010	0.201 ug/Kg

Data File Name: 038F3801.D
Inj. Date and Time: 11-MAR-2010 16:28
Instrument ID: a2hp9.i
Client ID: ATASB-008-5133-SO
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/12/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Poor Chromatography

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\038F3801.D
Lab Smp Id: LV3KQ1CC Client Smp ID: ATASB-008-5133-SO
Inj Date : 11-MAR-2010 16:28
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV3KQ1CC,2
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Meth Date : 12-Mar-2010 06:57 vandorenc Quant Type: ESTD
Cal Date : 09-MAR-2010 13:48 Cal File: 013F1301.D
Als bottle: 38 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.010	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO	
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
4.372	4.371	0.001	423886	0.00895	0.1791			
4 alpha-BHC						CAS #: 319-84-6		
5.292	5.291	0.001	4752818	0.04533	30.21			
5 gamma-BHC (Lindane)						CAS #: 58-89-9		
5.948	5.947	0.001	4074865	0.04292	28.60			
6 beta-BHC						CAS #: 319-85-7		
6.155	6.152	0.003	2347892	0.05741	38.26			(R)
7 delta-BHC						CAS #: 319-86-8		
6.811	6.808	0.003	3991085	0.04352	29.00			
8 Heptachlor						CAS #: 76-44-8		
6.929	6.926	0.003	3477608	0.03898	25.98			

```
   10 Aldrin                                      CAS #: 309-00-2
7.754    7.751    0.003         1255509 0.04238    28.24
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.099	9.097	0.002	3455729	0.04365	29.09		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.484	9.482	0.002	3471901	0.04418	29.44		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.771	9.768	0.003	3341636	0.04327	28.84		
15 Endosulfan I					CAS #: 959-98-8		
9.836	9.831	0.005	3186960	0.04416	29.43		
16 4,4'-DDE					CAS #: 72-55-9		
10.176	10.175	0.001	1484931	0.04896	32.63		
17 Dieldrin					CAS #: 60-57-1		
10.333	10.330	0.003	3472487	0.04613	30.74		
18 Endrin					CAS #: 72-20-8		
10.833	10.831	0.002	3208527	0.04899	32.65		
21 4,4'-DDD					CAS #: 72-54-8		
11.149	11.147	0.002	1337242	0.05489	36.58		
22 Endosulfan II					CAS #: 33213-65-9		
11.193	11.191	0.002	1238674	0.04068	27.11		
24 4,4'-DDT					CAS #: 50-29-3		
11.632	11.630	0.002	1174870	0.04477	29.83		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.740	11.737	0.003	1690405	0.03385	22.56		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.161	12.160	0.001	1346017	0.04916	32.76		
27 Methoxychlor					CAS #: 72-43-5		
12.681	12.679	0.002	1253302	0.04849	32.31		
29 Endrin ketone					CAS #: 53494-70-5		
12.900	12.898	0.002	3065078	0.04565	30.42		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.652	14.650	0.002	563551	0.00947	0.1894		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\100310-1.b\038F3801.D

Date : 11-MAR-2010 16:28

Client ID: ATASB-008-5133-SO

Instrument: a2hp9.i

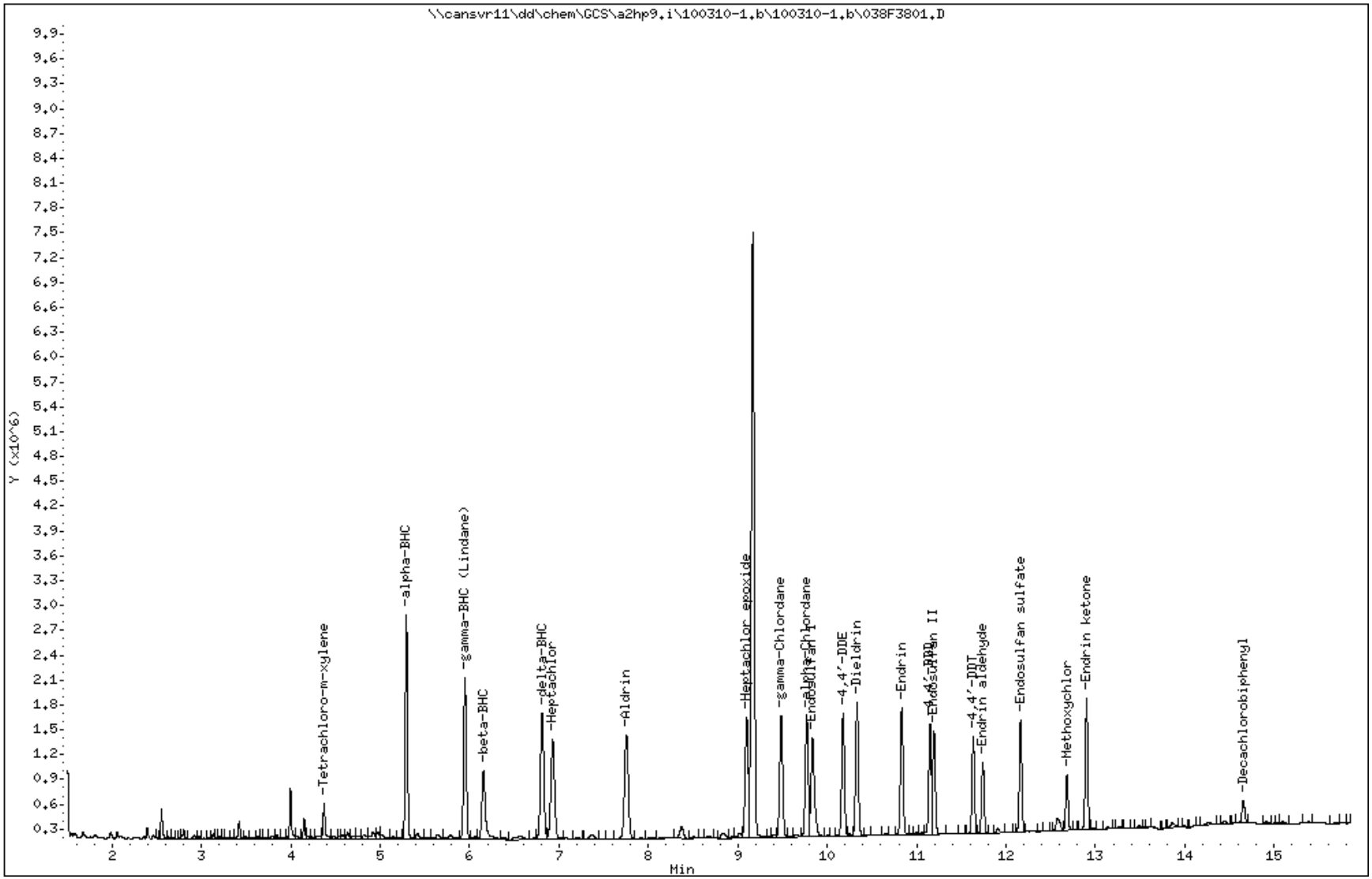
Sample Info: LV3KQ1CC,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 11-MAR-2010 16:28
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100310-1.b/100310-1.b/038F3801.D
Lab Sample ID: LV3KQ1CC
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100310-1.b\PEST9.m\PEST9r.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	4.373	725151	0.009	0.179 ug/Kg
4) alpha-BHC	5.293	4752818	0.045	30.208 ug/Kg
5) gamma-BHC (Lindane)	5.949	4074865	0.043	28.601 ug/Kg
6) beta-BHC	6.155	2347892	0.057	38.262 ug/Kg
7) delta-BHC	6.811	3991085	0.044	29.005 ug/Kg
8) Heptachlor	6.929	3477608	0.039	25.979 ug/Kg
10) Aldrin	7.754	3739450	0.042	28.245 ug/Kg
12) Heptachlor epoxide	9.099	3455729	0.044	29.087 ug/Kg
13) gamma-Chlordane	9.484	3471901	0.044	29.443 ug/Kg
14) alpha-Chlordane	9.771	3341636	0.043	28.835 ug/Kg
15) Endosulfan I	9.836	3186960	0.044	29.430 ug/Kg
16) 4,4'-DDE	10.177	3228682	0.049	32.626 ug/Kg
17) Dieldrin	10.334	3472487	0.046	30.744 ug/Kg
18) Endrin	10.834	3208527	0.049	32.651 ug/Kg
21) 4,4'-DDD	11.149	2648829	0.055	36.583 ug/Kg
22) Endosulfan II	11.194	2601775	0.041	27.113 ug/Kg
24) 4,4'-DDT	11.633	2248257	0.045	29.835 ug/Kg
25) Endrin aldehyde	11.740	1690405	0.034	22.559 ug/Kg
26) Endosulfan sulfate	12.162	2593680	0.049	32.765 ug/Kg
27) Methoxychlor	12.681	1253302	0.048	32.313 ug/Kg
29) Endrin ketone	12.900	3065078	0.046	30.422 ug/Kg
30) Decachlorobiphenyl	14.653	563551	0.009	0.189 ug/Kg

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\020F2001.D
Lab Smp Id: LV3KQ1CD Client Smp ID: ATASB-008-5133-SO
Inj Date : 15-MAR-2010 15:54
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV3KQ1CD,2
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Meth Date : 16-Mar-2010 09:26 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 14:16 Cal File: 016F1601.D
Als bottle: 20 QC Sample: MSD
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.120	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
3.796	3.794	0.002	754526	0.00896	0.1793		
4 alpha-BHC						CAS #: 319-84-6	
4.498	4.495	0.003	5754432	0.04323	28.70		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
4.921	4.918	0.003	6896208	0.04177	27.74		
6 beta-BHC						CAS #: 319-85-7	
5.068	5.065	0.003	1646202	0.04072	27.04		
7 delta-BHC						CAS #: 319-86-8	
5.318	5.314	0.004	6008477	0.03625	24.07		
		Sum of Peak Concentrations =			24.07		
8 Heptachlor						CAS #: 76-44-8	
5.640	5.637	0.003	3114291	0.03956	26.26		

```
   10 Aldrin                                      CAS #: 309-00-2
6.169    6.165    0.004         6129962 0.03906    25.94
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
7.605	7.600	0.005	1983680	0.04268	28.34		
13 gamma-Chlordane					CAS #: 5103-74-2		
7.905	7.900	0.005	2154908	0.04326	28.73		
14 alpha-Chlordane					CAS #: 5103-71-9		
8.218	8.214	0.004	1924617	0.03751	24.90		
15 Endosulfan I					CAS #: 959-98-8		
8.474	8.470	0.004	1711789	0.03528	23.42		
16 4,4'-DDE					CAS #: 72-55-9		
8.543	8.539	0.004	5966922	0.04267	28.34		
17 Dieldrin					CAS #: 60-57-1		
8.986	8.983	0.003	6264490	0.04368	29.00		
18 Endrin					CAS #: 72-20-8		
9.411	9.407	0.004	2200833	0.04039	26.82		
20 4,4'-DDD					CAS #: 72-54-8		
9.722	9.720	0.002	4633258	0.03955	26.26		
22 Endosulfan II					CAS #: 33213-65-9		
9.833	9.830	0.003	2301935	0.04387	29.13		
23 4,4'-DDT					CAS #: 50-29-3		
10.213	10.211	0.002	4574699	0.04479	29.74		
25 Endrin aldehyde					CAS #: 7421-93-4		
10.586	10.584	0.002	1387272	0.03099	20.58		
27 Methoxychlor					CAS #: 72-43-5		
11.109	11.109	0.000	2315791	0.04333	28.77		
28 Endosulfan sulfate					CAS #: 1031-07-8		
11.286	11.285	0.001	4395897	0.03970	26.36		
29 Endrin ketone					CAS #: 53494-70-5		
11.680	11.679	0.001	2527643	0.03995	26.53		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
13.235	13.233	0.002	540619	0.00910	0.1820		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\020F2001.D

Page 1

Date : 15-MAR-2010 15:54

Client ID: ATASB-008-5133-SO

Instrument: a2hp9.i

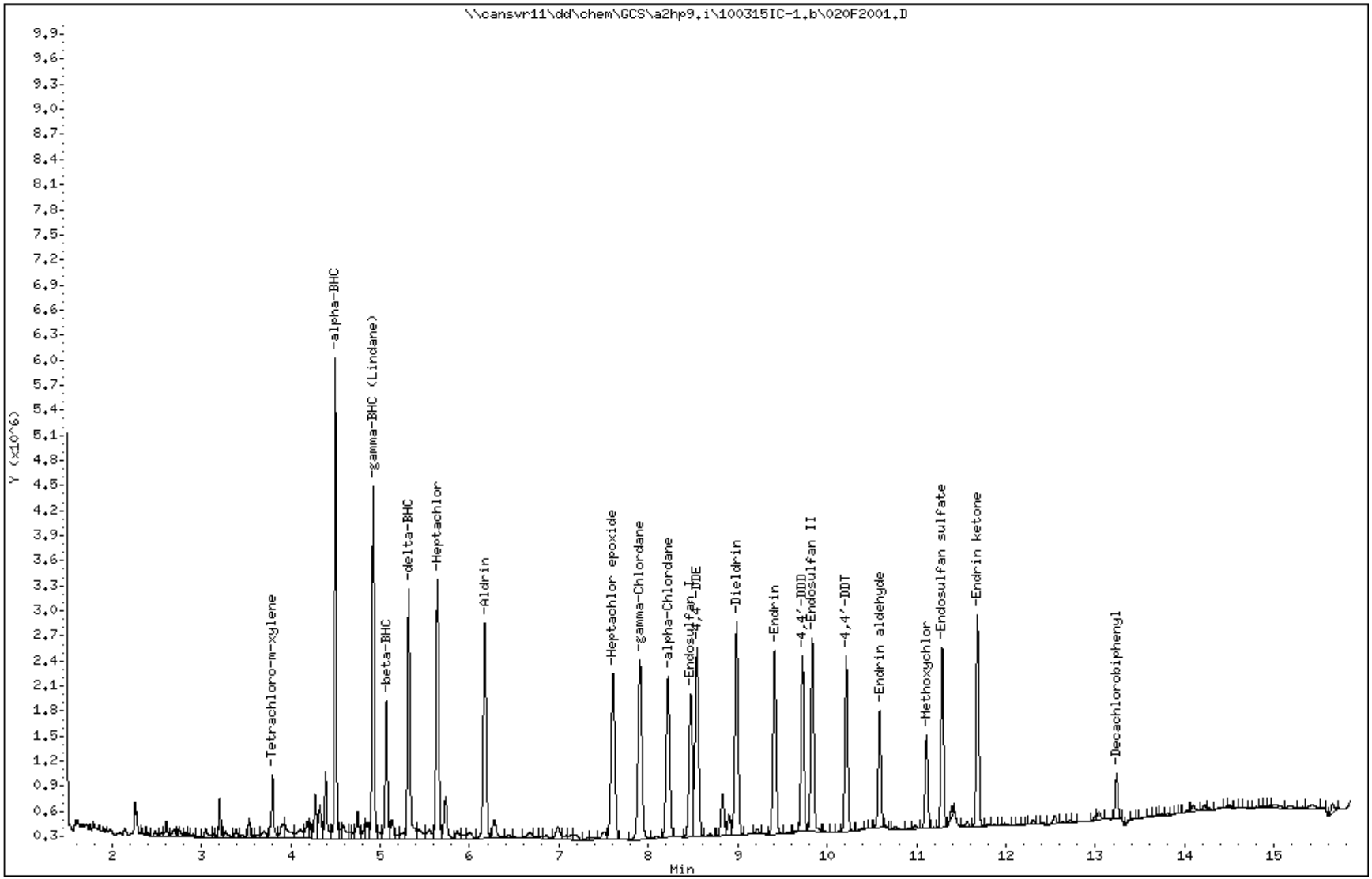
Sample Info: LV3KQ1CD,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides I

Column diameter: 0.53

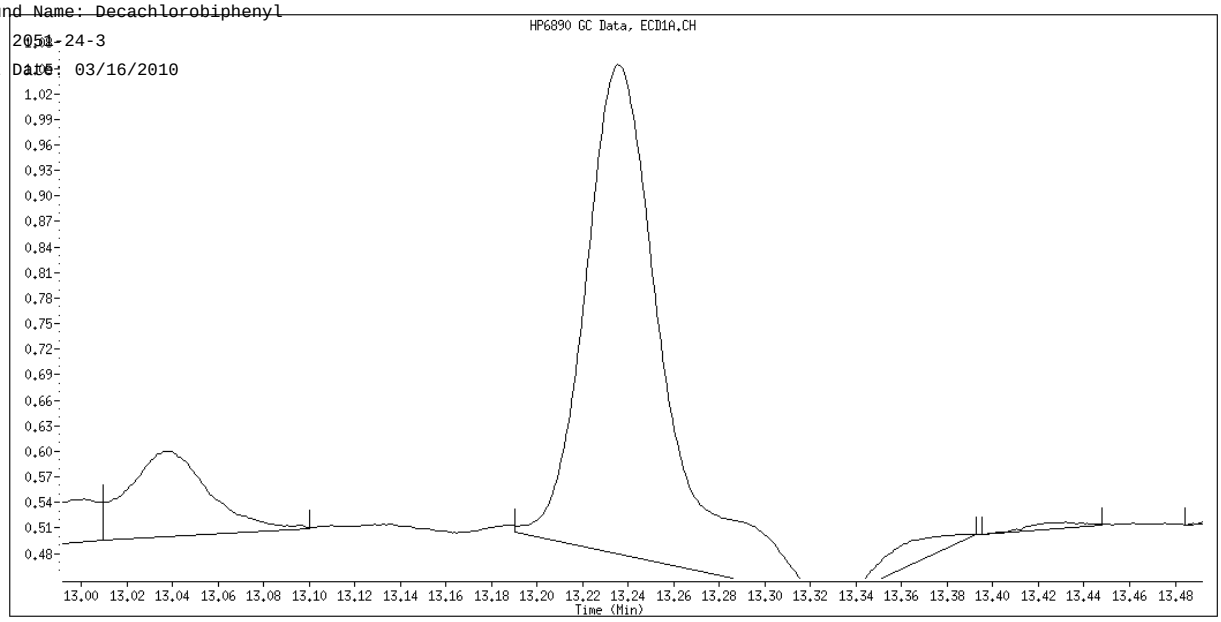


COMPOUNDS and EXP. RT REPORT

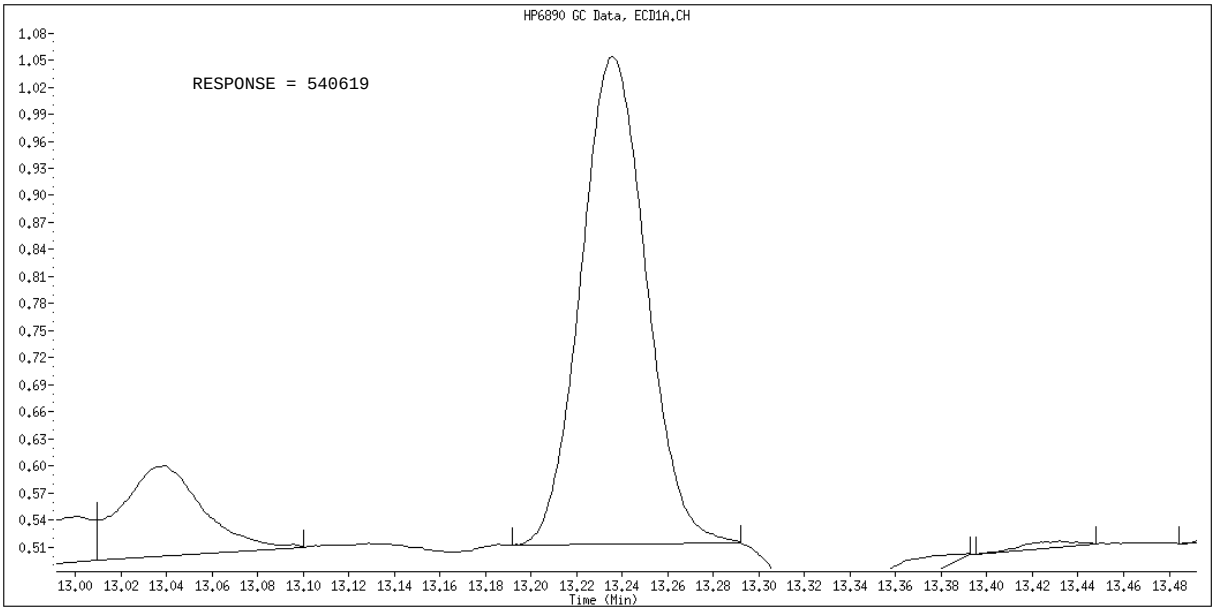
Operator: 093905 Date Acquired: 15-MAR-2010 15:54
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/020F2001.D
Lab Sample ID: LV3KQ1CD
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Tetrachloro-m-xylene	3.797	1318456	0.009	0.179 ug/Kg
4) alpha-BHC	4.499	8204933	0.043	28.702 ug/Kg
5) gamma-BHC (Lindane)	4.922	6896208	0.042	27.738 ug/Kg
6) beta-BHC	5.069	3077041	0.041	27.036 ug/Kg
7) delta-BHC	5.319	6008477	0.036	24.070 ug/Kg
8) Heptachlor	5.640	6512032	0.040	26.265 ug/Kg
10) Aldrin	6.169	6129962	0.039	25.938 ug/Kg
12) Heptachlor epoxide	7.605	5884676	0.043	28.338 ug/Kg
13) gamma-Chlordane	7.905	6465210	0.043	28.726 ug/Kg
14) alpha-Chlordane	8.219	5309385	0.038	24.906 ug/Kg
15) Endosulfan I	8.474	4609984	0.035	23.425 ug/Kg
16) 4,4'-DDE	8.544	5966922	0.043	28.336 ug/Kg
17) Dieldrin	8.986	6264490	0.044	29.001 ug/Kg
18) Endrin	9.411	5478748	0.040	26.821 ug/Kg
20) 4,4'-DDD	9.723	4633258	0.040	26.262 ug/Kg
22) Endosulfan II	9.834	5429059	0.044	29.133 ug/Kg
23) 4,4'-DDT	10.214	4574699	0.045	29.741 ug/Kg
25) Endrin aldehyde	10.586	2989882	0.031	20.575 ug/Kg
27) Methoxychlor	11.109	2315791	0.043	28.769 ug/Kg
28) Endosulfan sulfate	11.287	4395897	0.040	26.364 ug/Kg
29) Endrin ketone	11.680	5157168	0.040	26.527 ug/Kg
30) Decachlorobiphenyl	13.235	1076380	0.009	0.182 ug/Kg

Data File Name: 020F2001.D
Inj. Date and Time: 15-MAR-2010 15:54
Instrument ID: a2hp9.i
Client ID: ATASB-008-5133-SO
Compound Name: Decachlorobiphenyl
CAS #: 2051-24-3
Report Date: 03/16/2010



Original Integration



Manual Integration

Manually Integrated By: vandorenc
Manual Integration Reason: Baseline Event

TestAmerica North Canton

PESTICIDES 8081/608

Data file : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\020F2001.D
Lab Smp Id: LV3KQ1CD Client Smp ID: ATASB-008-5133-SO
Inj Date : 15-MAR-2010 15:54
Operator : 093905 Inst ID: a2hp9.i
Smp Info : LV3KQ1CD,2
Misc Info : 13-PEST.SUB,SOIL(33.3).SPK
Comment :
Method : \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Meth Date : 16-Mar-2010 09:28 vandorenc Quant Type: ESTD
Cal Date : 15-MAR-2010 13:03 Cal File: 013F1301.D
Als bottle: 20 QC Sample: MSD
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: 13-PEST.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV23

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	2.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	30.120	initial volume of sample
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.369	4.367	0.002	426322	0.00872	0.1744		
4 alpha-BHC						CAS #: 319-84-6	
5.287	5.285	0.002	4627940	0.04298	28.54		
5 gamma-BHC (Lindane)						CAS #: 58-89-9	
5.940	5.939	0.001	3765739	0.03829	25.42		
6 beta-BHC						CAS #: 319-85-7	
6.147	6.145	0.002	760990	0.04151	27.56		
7 delta-BHC						CAS #: 319-86-8	
6.802	6.799	0.003	3969949	0.04049	26.88		
8 Heptachlor						CAS #: 76-44-8	
6.921	6.916	0.005	3610503	0.03803	25.25		

```
   10 Aldrin                                        CAS #: 309-00-2
7.744    7.740    0.004         1299104 0.04328    28.74
--------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Heptachlor epoxide					CAS #: 1024-57-3		
9.091	9.089	0.002	3433007	0.04233	28.11		
13 gamma-Chlordane					CAS #: 5103-74-2		
9.477	9.475	0.002	3388014	0.04175	27.72		
14 alpha-Chlordane					CAS #: 5103-71-9		
9.761	9.760	0.001	3305947	0.04174	27.71		
15 Endosulfan I					CAS #: 959-98-8		
9.827	9.825	0.002	3253504	0.04376	29.06		
16 4,4'-DDE					CAS #: 72-55-9		
10.169	10.166	0.003	1496376	0.04533	30.10		
17 Dieldrin					CAS #: 60-57-1		
10.325	10.322	0.003	3863196	0.05029	33.39		
18 Endrin					CAS #: 72-20-8		
10.825	10.823	0.002	3195762	0.04549	30.21		
21 4,4'-DDD					CAS #: 72-54-8		
11.141	11.140	0.001	1273721	0.04323	28.70		
22 Endosulfan II					CAS #: 33213-65-9		
11.186	11.183	0.003	1206384	0.03734	24.80		
24 4,4'-DDT					CAS #: 50-29-3		
11.625	11.623	0.002	1173875	0.04615	30.64		
25 Endrin aldehyde					CAS #: 7421-93-4		
11.732	11.730	0.002	1688645	0.03112	20.66		
26 Endosulfan sulfate					CAS #: 1031-07-8		
12.154	12.152	0.002	1274435	0.04251	28.22		
27 Methoxychlor					CAS #: 72-43-5		
12.674	12.672	0.002	1221796	0.04624	30.70		
29 Endrin ketone					CAS #: 53494-70-5		
12.892	12.890	0.002	2810220	0.04037	26.80		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
14.646	14.643	0.003	681044	0.01062	0.2124		

Data File: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\100315IC-1.b\020F2001.D

Page 1

Date : 15-MAR-2010 15:54

Client ID: ATASB-008-5133-SO

Instrument: a2hp9.i

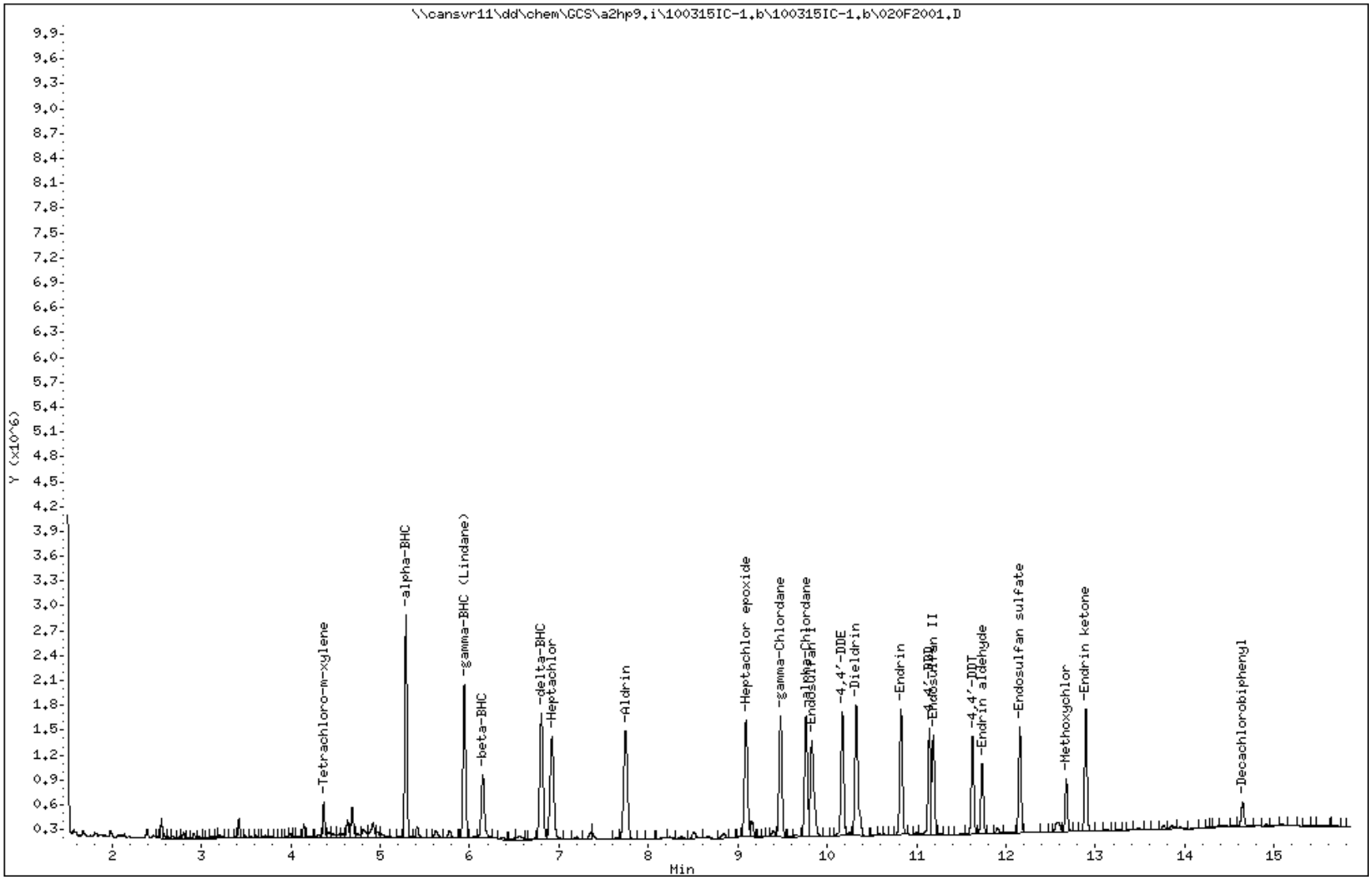
Sample Info: LV3KQ1CD,2

Volume Injected (uL): 1.0

Operator: 093905

Column phase: clp pesticides II

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 093905 Date Acquired: 15-MAR-2010 15:54
Data File: //cansvr11/dd/chem/GCS/a2hp9.i/100315IC-1.b/100315IC-1.b/020F2001.D
Lab Sample ID: LV3KQ1CD
Misc. Info: 13-PEST.SUB,SOIL(33.3).SPK
Instrument: a2hp9.i
Method: \\cansvr11\dd\chem\GCS\a2hp9.i\100315IC-1.b\PEST9.m\PEST9r.m
Dilution Factor: 2

	Compound	RT	Area	Amount	Conc
1)	Tetrachloro-m-xylene	4.369	601005	0.009	0.174 ug/Kg
4)	alpha-BHC	5.288	4627940	0.043	28.541 ug/Kg
5)	gamma-BHC (Lindane)	5.940	3765739	0.038	25.425 ug/Kg
6)	beta-BHC	6.148	1847286	0.042	27.564 ug/Kg
7)	delta-BHC	6.803	3969949	0.040	26.883 ug/Kg
8)	Heptachlor	6.921	3610503	0.038	25.252 ug/Kg
10)	Aldrin	7.744	3837815	0.043	28.740 ug/Kg
12)	Heptachlor epoxide	9.091	3433007	0.042	28.107 ug/Kg
13)	gamma-Chlordane	9.478	3388014	0.042	27.723 ug/Kg
14)	alpha-Chlordane	9.762	3305947	0.042	27.713 ug/Kg
15)	Endosulfan I	9.828	3253504	0.044	29.058 ug/Kg
16)	4,4'-DDE	10.169	3225087	0.045	30.097 ug/Kg
17)	Dieldrin	10.325	3863196	0.050	33.393 ug/Kg
18)	Endrin	10.825	3195762	0.045	30.208 ug/Kg
21)	4,4'-DDD	11.142	2619029	0.043	28.702 ug/Kg
22)	Endosulfan II	11.186	2423537	0.037	24.797 ug/Kg
24)	4,4'-DDT	11.625	2300384	0.046	30.643 ug/Kg
25)	Endrin aldehyde	11.733	1688645	0.031	20.665 ug/Kg
26)	Endosulfan sulfate	12.154	2452185	0.043	28.225 ug/Kg
27)	Methoxychlor	12.674	1221796	0.046	30.704 ug/Kg
29)	Endrin ketone	12.893	2810220	0.040	26.805 ug/Kg
30)	Decachlorobiphenyl	14.646	681044	0.011	0.212 ug/Kg

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MISCELLANEOUS DATA

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp9.i

Standards Codes:	Routine Maintenance Performed:	Date: 09-MAR-2010 09:21
	Cut & Cleaned: ( )	QC Batch: 100309IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	PEM	PEM E006	2	1	093905		
003F0301.D	CALIB_1	AB1 G250	3	1	093905		
004F0401.D	CALIB_2	AB2 G251	4	1	093905		
005F0501.D	CALIB_3	AB3 G252	5	1	093905		
006F0601.D	CALIB_4	AB4 G253	6	1	093905		
007F0701.D	CALIB_5	AB5 G254	7	1	093905		
008F0801.D	CALIB_6	AB6 G255	8	1	093905		
009F0901.D	CCALIB_3	ICV E048	9	1	093905		
010F1001.D	CALIB_1	TOX1 G268	10	1	093905		
011F1101.D	CALIB_2	TOX2 G268	11	1	093905		
012F1201.D	CALIB_3	TOX3 G268	12	1	093905		
013F1301.D	CALIB_4	TOX4 G268	13	1	093905		
014F1401.D	CALIB_5	TOX5 G268	14	1	093905		

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp9.i

Standards Codes:	Routine Maintenance Performed:	Date: 11-MAR-2010 11:58
	Cut & Cleaned: ( )	QC Batch: 100310-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
027F2701.D	PEM	PEM	27	1	093905		
028F2801.D	CCALIB_3	AB3	28	1	093905		
029F2901.D	MRL	MRL	29	1	093905		
030F3001.D	CCALIB_3	TOX3 G268	30	1	093905		
037F3701.D	ATASB-008-5133-SO	LV3KQ1AE	37	2	093905		
038F3801.D	ATASB-008-5133-SO	LV3KQ1OC	38	2	093905		
042F4201.D	CCALIB_3	TOX3 G268	42	1	093905		
043F4301.D	CCALIB_3	AB3 G252	43	1	093905		
044F4401.D	MRL	MRL	44	1	093905		

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp9.i

Standards Codes:	Routine Maintenance Performed:	Date: 15-MAR-2010 08:42
	Cut & Cleaned: ( )	QC Batch: 100315IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	PEM	PEM E006	2	1	093905		
004F0401.D	CALIB_1	AB1 G250	4	1	093905		
005F0501.D	CALIB_2	AB2 G251	5	1	093905		
006F0601.D	CALIB_3	AB3 G252	6	1	093905		
007F0701.D	CALIB_4	AB4 G253	7	1	093905		
008F0801.D	CALIB_5	AB5 G254	8	1	093905		
009F0901.D	CALIB_6	AB6 G255	9	1	093905		
011F1101.D	MRL	MRL	11	1	093905		
012F1201.D	CCALIB_3	ICV	12	1	093905		
013F1301.D	CALIB_1	TOX1 G268	13	1	093905		
014F1401.D	CALIB_2	TOX2 G268	14	1	093905		
015F1501.D	CALIB_3	TOX3 G268	15	1	093905		
016F1601.D	CALIB_4	TOX4 G268	16	1	093905		
017F1701.D	CALIB_5	TOX5 G268	17	1	093905		
018F1801.D	F16SS-026M-5431-SO	LV3LJ1AD	18	20	093905		
019F1901.D	ATASB-008-5134-SO	LV3KR1AQ	19	1	093905		
020F2001.D	ATASB-008-5133-SO	LV3KQ1CD	20	2	093905		
027F2701.D	CCALIB_3	TOX3 G268	27	1	093905		
028F2801.D	PEM	PEM E006	28	1	093905		
029F2901.D	CCALIB_3	AB3 G252	29	1	093905		
030F3001.D	MRL	MRL	30	1	093905		
037F3701.D	INTRA-LAB BLANK	LV6AP1AA	37	1	093905		
038F3801.D	INTRA-LAB CHECK	LV6AP1AC	38	1	093905		
039F3901.D	CCALIB_3	TOX3 G268	39	1	093905		
040F4001.D	CCALIB_3	AB3 G252	40	1	093905		
041F4101.D	MRL	MRL	41	1	093905		

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp9.i

Standards Codes:	Routine Maintenance Performed:	Date: 16-MAR-2010 00:38
	Cut & Cleaned: ( )	QC Batch: 100315IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
050F5001.D	PEM	PEM E006	50	1	093905		

Witnessed By: Date: Page No. _____

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/24/2010
Time: 20:43:33

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct &
			_	_	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 403847 Jeff Shanklin

Concentrationist: 000123 Leslie Howell
403847 Jeff Shanklin

Reviewer/Date: ARTENOM / 3/03/10

QC BATCH: 0060035

PREP DATE: 3/02/10
COMP DATE: 3/03/10

Pesticides (8081A)
SOXHLET (NONE,Na2SO4)
SW846 3540C

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/18/10	A0B250463-005 **LV3KR-1-AQ**	D	11	QJ	SOLID	30.03g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	3/18/10	A0B250463-018 **LV3LJ-1-AD**	D	11	QJ	SOLID	30.15g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/11/10	3/19/10	A0B260454-001 **LV41M-1-AE**	D	11	QJ	SOLID	30.03g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	3/18/10	A0B250463-004 **LV3KQ-1-AE**	D	11	QJ	SOLID	30.05g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	3/18/10	A0B250463-004 **LV3KQ-1-CC S**	D	11	QJ	SOLID	30.01g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #4620 1ML 2/.2 #4621
COMMENTS:															

1463

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0060035

PREP DATE: 3/02/10
COMP DATE: 3/03/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/18/10	A0B250463-004 **LV3KQ-1-CD D**	D	11	QJ	SOLID	30.12g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #4620 1ML 2/.2 #4621
COMMENTS:															
3/10/10	0/0/0	A0C010000-035 **LV6AP-1-AA B**		11	QJ	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/11/10	3/19/10	A0B260454-016 **LV43E-1-AE**	D	11	QJ	SOLID	30.01g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:	DECANT														
3/10/10	0/0/0	A0C010000-035 **LV6AP-1-AC C**		11	QJ	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML NPDES #4620 1ML 2/.2 #4621
COMMENTS:															
3/11/10	3/19/10	A0B260454-002 **LV41R-1-AQ**	D	11	QJ	SOLID	30.07g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/11/10	3/19/10	A0B260454-008 **LV42P-1-AE**	D	11	QJ	SOLID	30.07g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:	WET														
3/11/10	3/19/10	A0B260454-010 **LV42W-1-AE**	D	11	QJ	SOLID	30.09g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:	WET														

S&S BY JS

DCM/ACE #J03E07 HEXANE #H46E60 NA2S04 #H35594 BALANCE #B025

ASSOC SAMPLES & BLANK W/0060036

NUMBER OF WORK ORDERS IN BATCH: 12

1464

Lot/SDG Number: **A0B250463**

Sample Control Chain of Custody - TAL North Canton
GC Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0B250463-004	LV3KQ1AE	Pesticides (8081A)	03/02/10	Jeff Shanklin	03/03/10	Michele Arteno	03/11/10	Carolyn Van Doren
A0B250463-005	LV3KR1AQ	Pesticides (8081A)	03/02/10	Jeff Shanklin	03/03/10	Michele Arteno	03/15/10	Carolyn Van Doren
A0B250463-018	LV3LJ1AD	Pesticides (8081A)	03/02/10	Jeff Shanklin	03/03/10	Michele Arteno	03/15/10	Carolyn Van Doren

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POLYCHLORINATED BIPHENYLS DATA

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QC SUMMARY DATA

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0B250463

Extraction: XXA63QHWA

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	ATASB-008-5133-SO	81	87	00
02	ATASB-008-5134-SO	72	83	00
03	F16SS-026M-5431-SO	72	80	00
04	METHOD BLK. LV6AQ1AA	83	89	00
05	LCS LV6AQ1AC	94	104	00
06	ATASB-008-5134-SO D	73	96	00
07	ATASB-008-5134-SO S	61	73	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(40-140)
SRG02	= Decachlorobiphenyl	(60-125)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Lot #: A0C010000 WO #: LV6AQ1AC
BATCH: 0060036

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	330	270	80	40- 140	
Aroclor 1260	330	280	85	60- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: ATASB-008-5134-SO

Lot #: A0B250463 WO #: LV3KR1CC
BATCH: 0060036

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aroclor 1016	350	ND	200	58	40- 140	
Aroclor 1260	350	ND	210	62	60- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Science Applications International Corp

Lab Code: TALCAN SDG No:

Matrix Spike ID: ATASB-008-5134-SO

Lot #: A0B250463 WO #: LV3KR1CD
BATCH: 0060036

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aroclor 1016	350	240	69	17	39	40- 140	
Aroclor 1260	350	270	78	24	33	60- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: LV6AQ1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: 031F3101.

Lot Number: A0B250463

Matrix: SOLID

Extraction Method:

Date Extracted: 03/02/10

Date Analyzed(1): 03/05/10

Date Analyzed(2): N/A

Time Analyzed(1): 14:26

Time Analyzed(2): N/A

Instrument ID(1): P13

Instrument ID(2): N/A

GC Column(1): PEST CLP1 ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #		DATE ANALYZED(1)	DATE ANALYZED(2)
01	ATASB-008-5133-SO	LV3KQ1AF		03/05/10	N/A
02	ATASB-008-5134-SO	LV3KR1AR		03/05/10	N/A
03	ATASB-008-5134-SO	LV3KR1CC	S	03/05/10	N/A
04	ATASB-008-5134-SO	LV3KR1CD	D	03/05/10	N/A
05	F16SS-026M-5431-SO	LV3LJ1AE		03/05/10	N/A
06	CHECK SAMPLE	LV6AQ1AC	C	03/05/10	N/A
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

COMMENTS:

FORM IV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

GC Semivolatiles

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ1AF **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 03/02/10 **Analysis Date..:** 03/05/10
Prep Batch #...: 0060036
Dilution Factor: 1 **Initial Wgt/Vol:** 30.05 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 11 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	24
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	15
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(40 - 140)
Decachlorobiphenyl	87	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\027F2701.D
Lab Smp Id: LV3KQ1AF Client Smp ID: ATASB-008-5133-SO
Inj Date : 05-MAR-2010 13:27
Operator : Inst ID: a2hp13.i
Smp Info : LV3KQ1AF
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 13:19 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.050	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.163	1.165	-0.002	2014390	0.01621	5.396		
2 AROCLOR-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

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6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Compound Not Detected

---

8 AROCLOR-1260 CAS #: 11096-82-5

Compound Not Detected

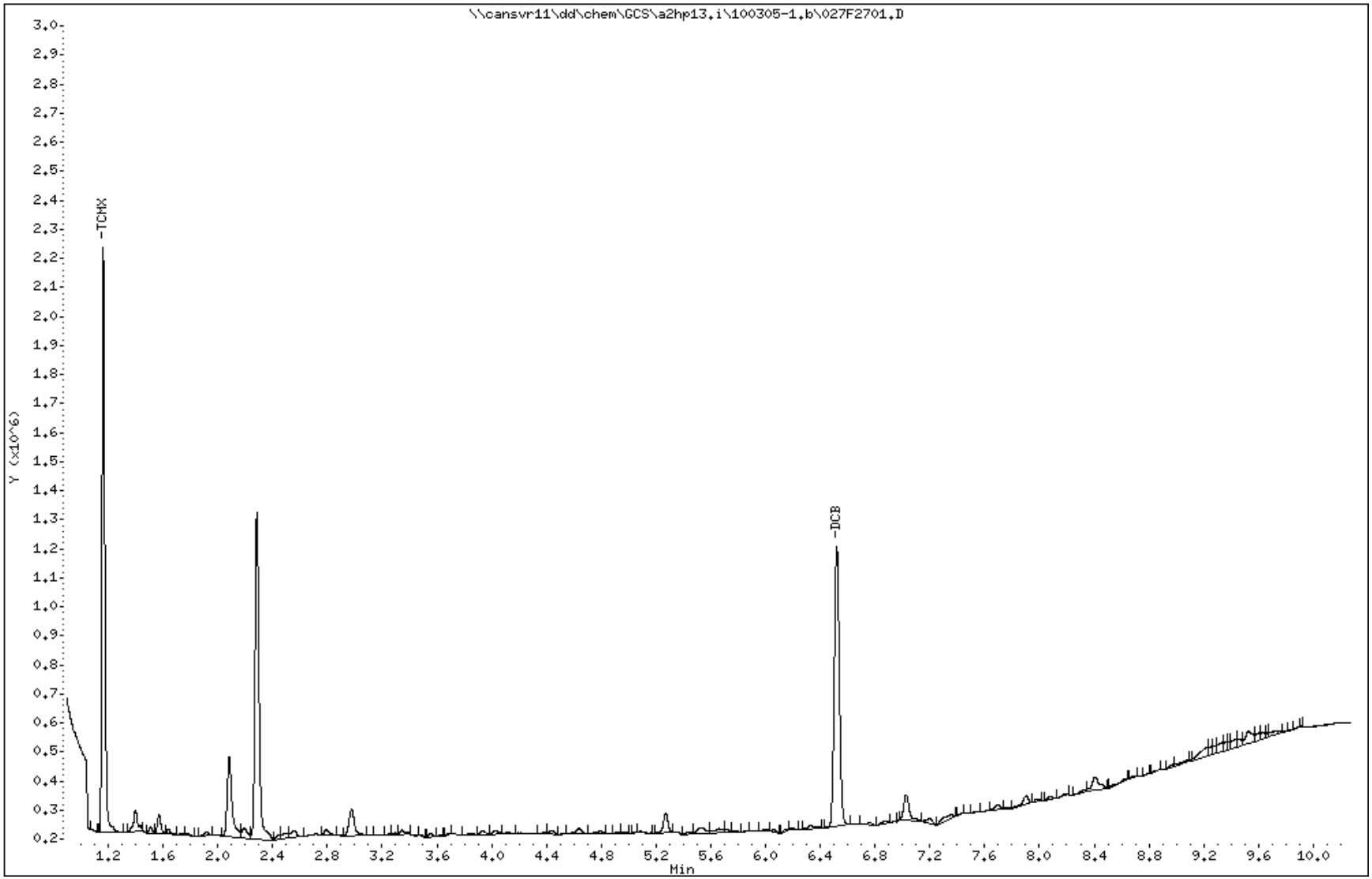
M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

$ 9 DCB CAS #: 2051-24-3

6.519	6.521	-0.002	964560	0.01739	5.786		

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\027F2701.D
Date : 05-MAR-2010 13:27
Client ID: ATASB-008-5133-SO
Instrument: a2hp13.i
Sample Info: LV3KQ1AF
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

GC Semivolatiles

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR1AR **Matrix.....:** SO
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
Prep Date.....: 03/02/10 **Analysis Date..:** 03/05/10
Prep Batch #...: 0060036
Dilution Factor: 1 **Initial Wgt/Vol:** 30.03 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 4.8 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	35	ug/kg	22
Aroclor 1221	ND	35	ug/kg	17
Aroclor 1232	ND	35	ug/kg	15
Aroclor 1242	ND	35	ug/kg	14
Aroclor 1248	ND	35	ug/kg	18
Aroclor 1254	ND	35	ug/kg	18
Aroclor 1260	ND	35	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	72	(40 - 140)
Decachlorobiphenyl	83	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\028F2801.D
Lab Smp Id: LV3KR1AR Client Smp ID: ATASB-008-5134-SO
Inj Date : 05-MAR-2010 13:41
Operator : Inst ID: a2hp13.i
Smp Info : LV3KR1AR
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 13:19 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.030	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.164	1.165	-0.001	1789552	0.01440	4.797		

2 AROCLOR-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

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6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

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7 AROCLOR-1254 CAS #: 11097-69-1

Compound Not Detected

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8 AROCLOR-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

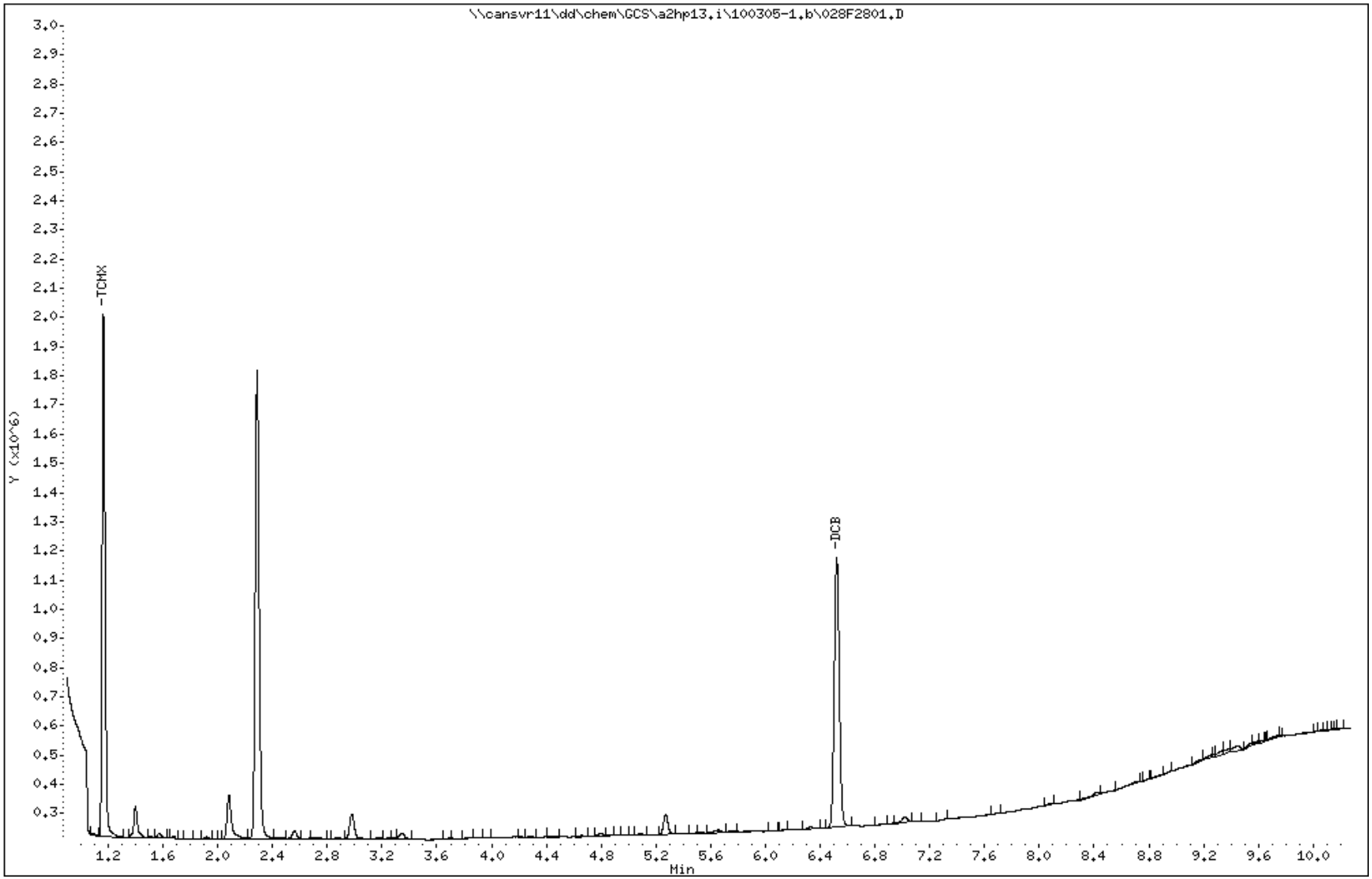
M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

$ 9 DCB CAS #: 2051-24-3

6.520	6.521	-0.001	924616	0.01667	5.550		

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\028F2801.D
Date : 05-MAR-2010 13:41
Client ID: ATASB-008-5134-SO
Instrument: a2hp13.i
Sample Info: LV3KR1AR
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

GC Semivolatiles

Lot-Sample #...: A0B250463-018 **Work Order #...:** LV3LJ1AE **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
Prep Date.....: 03/02/10 **Analysis Date..:** 03/05/10
Prep Batch #...: 0060036
Dilution Factor: 1 **Initial Wgt/Vol:** 30.15 g **Final Wgt/Vol..:** 10 mL
% Moisture.....: 2.0 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	34	ug/kg	21
Aroclor 1221	ND	34	ug/kg	16
Aroclor 1232	ND	34	ug/kg	14
Aroclor 1242	ND	34	ug/kg	13
Aroclor 1248	ND	34	ug/kg	17
Aroclor 1254	ND	34	ug/kg	17
Aroclor 1260	ND	34	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	72	(40 - 140)
Decachlorobiphenyl	80	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\033F3301.D
Lab Smp Id: LV3LJ1AE Client Smp ID: F16SS-026M-5431-SO
Inj Date : 05-MAR-2010 14:55
Operator : Inst ID: a2hp13.i
Smp Info : LV3LJ1AE
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 14:48 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.150	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.163	1.162	0.001	1779501	0.01432	4.751		
2 AROCLOR-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

---

6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Compound Not Detected

---

8 AROCLOR-1260 CAS #: 11096-82-5

Compound Not Detected

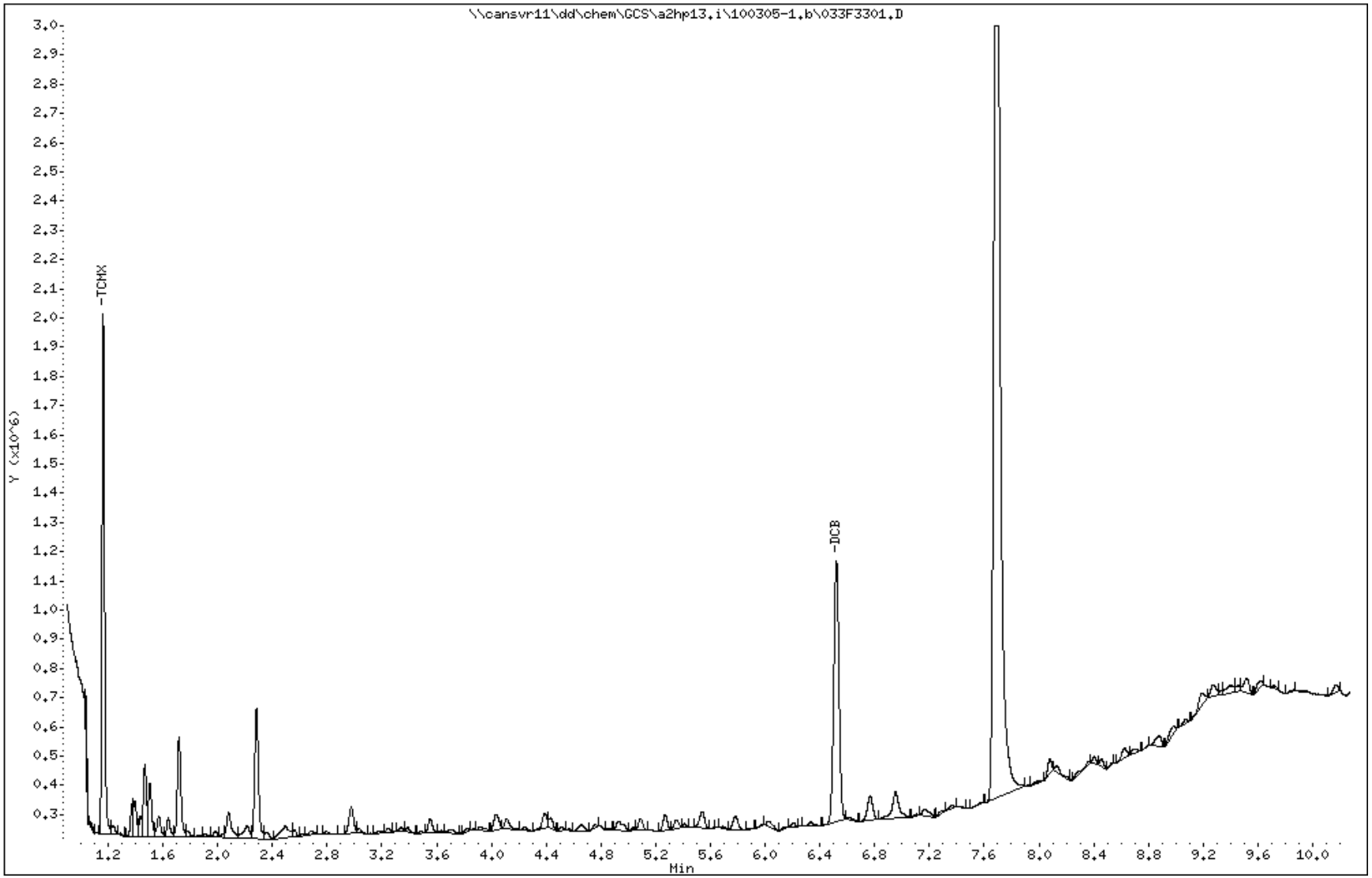
M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

$ 9 DCB CAS #: 2051-24-3

6.520 6.520 0.000 890696 0.01606 5.326

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\033F3301.D
Date : 05-MAR-2010 14:55
Client ID: F16SS-026M-5431-SO
Instrument: a2hp13.i
Sample Info: LV3LJ1AE
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 09-Feb-2010 07:53

Calibration History

Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Start Cal Date: 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
09-FEB-2010 01:06	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
08-FEB-2010 23:37	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
08-FEB-2010 22:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
08-FEB-2010 20:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
08-FEB-2010 19:06	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
08-FEB-2010 17:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
08-FEB-2010 16:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Cal Level: 2 , Cal Amount: 0.10000		
09-FEB-2010 01:21	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
08-FEB-2010 23:52	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
08-FEB-2010 22:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
08-FEB-2010 20:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
08-FEB-2010 19:21	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
08-FEB-2010 17:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
08-FEB-2010 16:21	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Cal Level: 3 , Cal Amount: 0.20000		
09-FEB-2010 01:37	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
09-FEB-2010 00:06	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
08-FEB-2010 22:36	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
08-FEB-2010 21:07	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
08-FEB-2010 19:36	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D

08-FEB-2010 18:06	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
08-FEB-2010 16:36	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D

Cal Level: 4 , Cal Amount: 0.50000		
09-FEB-2010 01:52	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
09-FEB-2010 00:21	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
08-FEB-2010 22:52	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
08-FEB-2010 21:21	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
08-FEB-2010 19:51	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
08-FEB-2010 18:22	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
08-FEB-2010 16:51	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D

Cal Level: 5 , Cal Amount: 1.00000		
09-FEB-2010 02:07	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
09-FEB-2010 00:36	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
08-FEB-2010 23:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
08-FEB-2010 21:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
08-FEB-2010 20:07	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
08-FEB-2010 18:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
08-FEB-2010 17:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D

Cal Level: 6 , Cal Amount: 2.00000		
09-FEB-2010 02:22	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
09-FEB-2010 00:51	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
08-FEB-2010 23:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
08-FEB-2010 21:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
08-FEB-2010 20:22	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
08-FEB-2010 18:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
08-FEB-2010 17:22	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Report Date : 09-Feb-2010 07:53

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Last Edit : 09-Feb-2010 07:52 hassl
Curve Type : Average

Calibration File Names:
Level 1: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Level 2: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Level 3: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Level 4: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Level 5: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Level 6: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D

Compound	0.05000 Level 1	0.10000 Level 2	0.20000 Level 3	0.50000 Level 4	1.000 Level 5	2.000 Level 6	___ RRF	% RSD
2 AROCLOR-1221(1)	1306940	1261280	1179165	1169896	989175	909796	1136042	13.674
(2)	848240	794010	784965	774110	668032	639907	751544	10.681
(3)	2901680	2862920	2673915	2559794	2174478	1945211	2519666	15.251
3 AROCLOR-1016(1)	4106480	3975500	3727870	3409518	3191408	2928167	3556491	12.929
(2)	7038600	6687300	6384465	6001140	5678041	5137023	6154428	11.267
(3)	14025840	13815520	13470015	13072122	12630703	10858982	12978864	8.893
(4)	5729340	5459910	5452295	5333418	5176357	4804463	5325964	5.884
(5)	5725180	5578090	5260970	5267902	5179034	4809780	5303493	6.055
4 AROCLOR-1232(1)	4150880	4107690	3843030	3594492	3487449	3112055	3715933	10.700
(2)	3168460	3401350	2934240	2696426	2717869	2409100	2887908	12.382
(3)	6047640	7023220	5583235	5218464	5054049	4703976	5605097	14.868
(4)	2247740	2394600	2167130	2096476	2210230	2010983	2187860	6.025
(5)	2239020	3020540	2058190	1892622	2012566	1847953	2178482	19.963
5 AROCLOR-1242(1)	3059460	3058220	2813060	2663436	2414223	2236483	2707480	12.447
(2)	5623480	5399410	5129105	4905296	4430570	4035099	4920493	12.164
(3)	11459840	10127500	9710045	9885966	9438043	8448522	9844986	9.976
(4)	4461940	4312190	4099605	4303376	3887106	3695834	4126675	7.038
(5)	4621020	4384980	4003575	4329668	3860688	3716228	4152693	8.360
6 AROCLOR-1248(1)	1454000	1420260	1370060	1274220	1169565	1086400	1295751	11.252
(2)	3010900	2790060	2820630	2659656	2569180	2369471	2703316	8.226
(3)	3202040	2933820	2928695	2752738	2628508	2366817	2802103	10.286
(4)	2403200	2197730	2249250	2094066	2089068	1918367	2158613	7.648
(5)	1482160	1424600	1450795	1319634	1353246	1245505	1379323	6.475
7 AROCLOR-1254(1)	2716440	2528470	2332960	2201306	2139507	1996557	2319207	11.442
(2)	3571720	3326230	3062695	2881644	2809567	2601374	3042205	11.721
(3)	4620300	4376080	4095535	3876656	3849058	3674586	4082036	8.757
(4)	3123100	3067400	2852090	2632426	2649791	2582812	2817937	8.315
(5)	3726220	3674840	3472475	3160374	3181404	3086601	3383652	8.244

Report Date : 09-Feb-2010 07:53

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Last Edit : 09-Feb-2010 07:52 hassl
Curve Type : Average

Compound	0.05000 Level 1	0.10000 Level 2	0.20000 Level 3	0.50000 Level 4	1.000 Level 5	2.000 Level 6	___ RRF	% RSD	
8 AROCLOR-1260 (1)	3216600	3314960	3014060	3008766	2930328	2625282	3018333	7.974	
(2)	4469260	4635280	4267265	4196426	4152767	3637914	4226485	8.062	
(3)	3947260	4191690	3889460	3841998	3851293	3383380	3850847	6.827	
(4)	5717600	6183230	6008290	5841704	5808119	4984962	5757318	7.171	
(5)	3057940	3341190	3178210	3083408	3085732	2652223	3066451	7.441	
13 AROCLOR-1262 (1)	2645180	2546250	2456525	2267548	2088075	2101119	2350783	9.964	
(2)	3506460	3367880	3198265	2990014	2796289	2804869	3110629	9.508	
(3)	4060880	3916100	3752905	3497380	3287716	3277441	3632070	9.062	
(4)	6888620	6801320	6569130	6292972	5871569	5904541	6388025	6.873	
(5)	2712680	2535220	2453775	2366522	2235996	2266865	2428510	7.362	
14 AROCLOR-1268 (1)	9211780	8938980	8022590	8722446	8455422	7663883	8502517	6.813	
(2)	8526060	8388300	7599130	8268058	8025460	7263962	8011828	6.119	
(3)	7014100	6818040	6152720	6789050	6622531	6048634	6574179	5.912	
(4)	3030600	3000890	2575970	2866612	2907263	2571629	2825494	7.217	
(5)	22033560	21701080	18770780	20305356	20048105	17711797	20095113	8.272	
M 15 TOTAL PCB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 1 TCMX	148213600	122641000	128687500	117843000	115503980	112511980	124233510	10.507	
$ 9 DCB	57004000	62043200	60081600	54615440	54969080	44117220	55471757	11.307	

TestAmerica North Canton

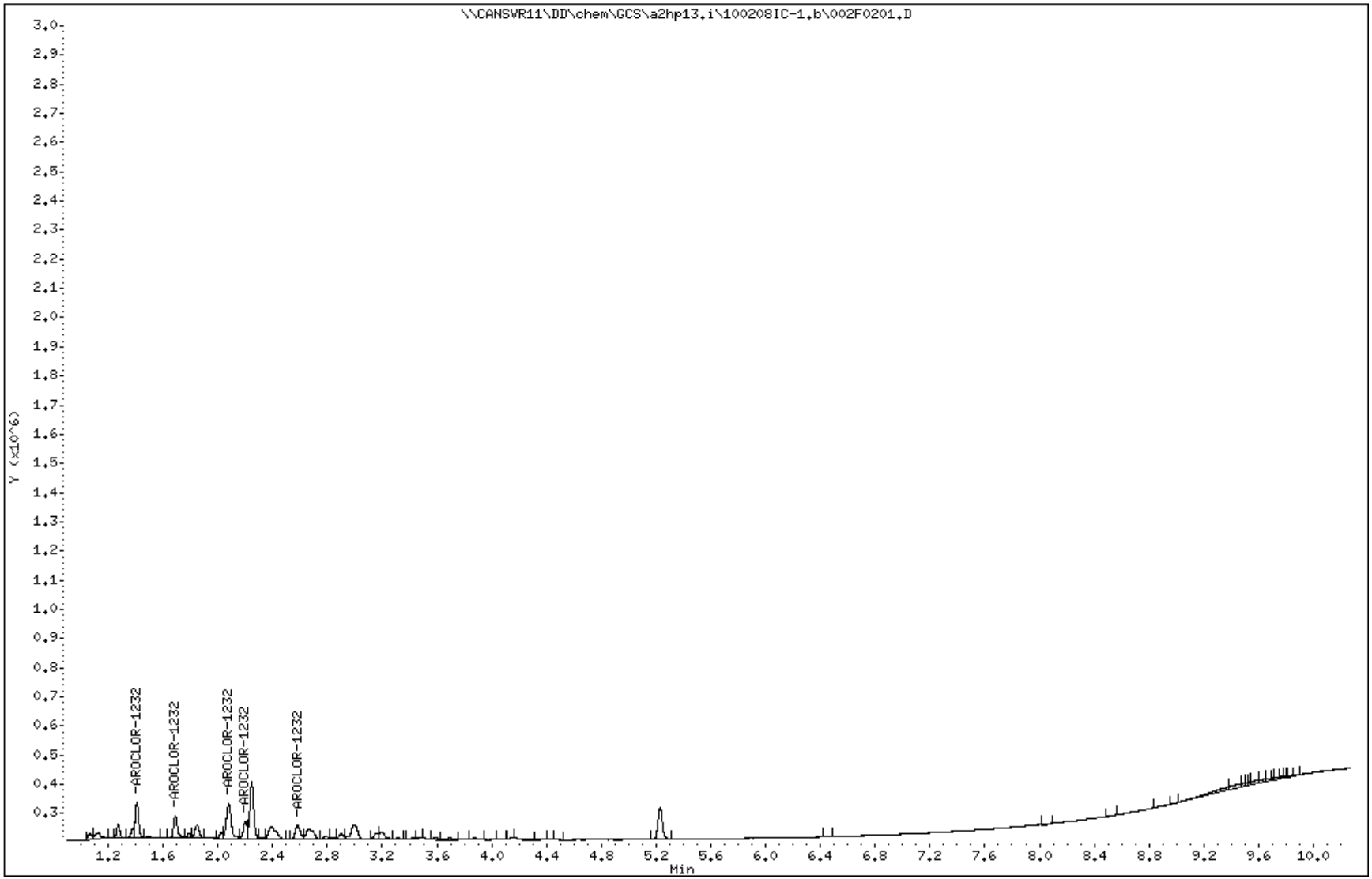
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:06
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,1
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	207544	0.05000	0.05454	75.00- 125.00	100.00
1.689	1.691	-0.002	158423	0.05000	0.05486	56.26- 93.77	76.33
2.079	2.083	-0.004	302382	0.05000	0.05395	108.88- 181.47	145.70
2.201	2.203	-0.002	112387	0.05000	0.05137	43.74- 72.91	54.15
2.582	2.584	-0.002	111951	0.05000	0.05139	39.49- 65.82	53.94
		Average of Peak Amounts =			0.05322		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Date : 08-FEB-2010 16:06
Client ID:
Sample Info: 1232,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

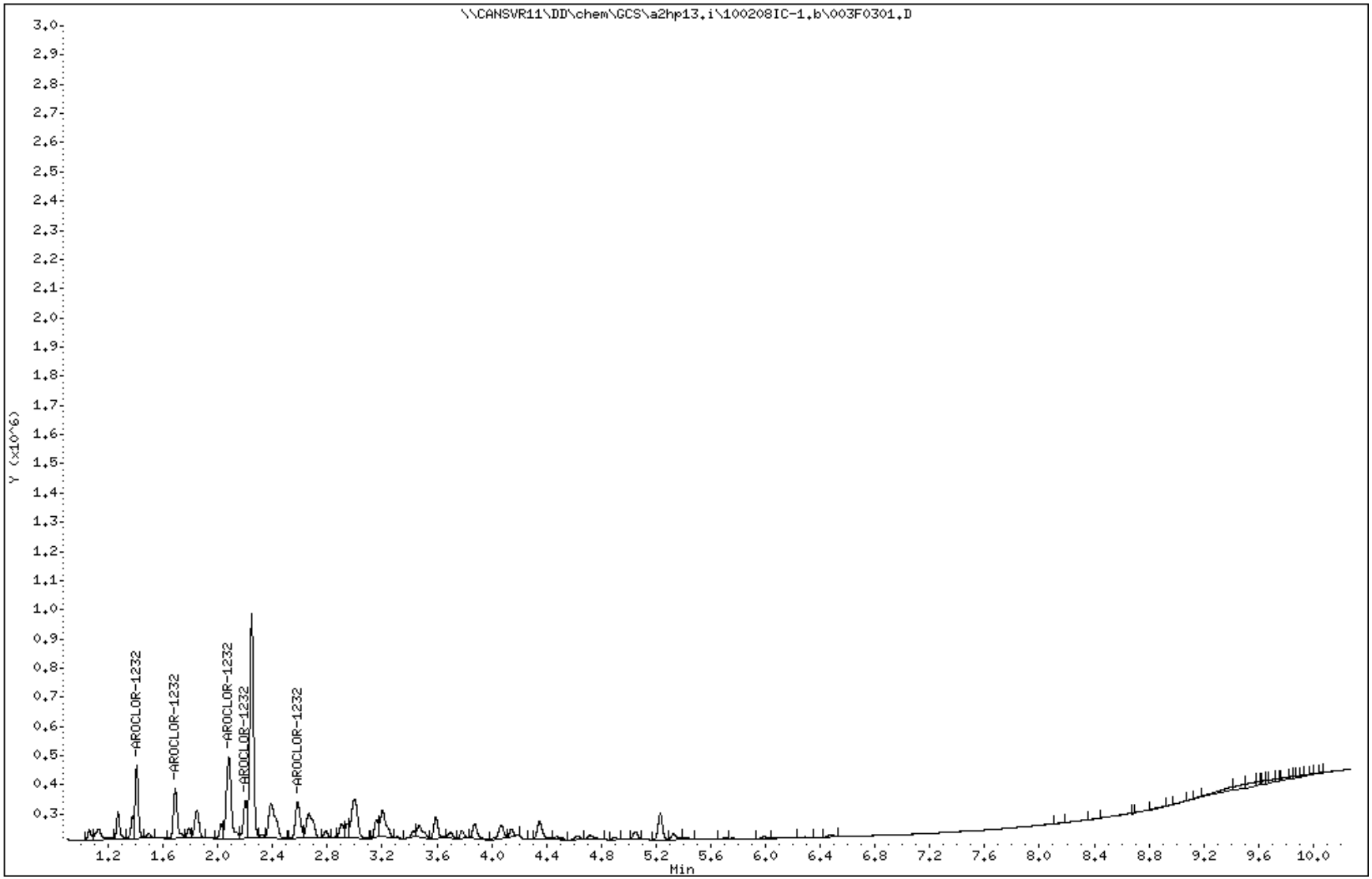
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:21
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,2
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	410769	0.10000	0.1080	75.00- 125.00	100.00
1.688	1.691	-0.003	340135	0.10000	0.1178	56.26- 93.77	82.80
2.080	2.083	-0.003	702322	0.10000	0.1253	108.88- 181.47	170.98
2.201	2.203	-0.002	239460	0.10000	0.1094	43.74- 72.91	58.30
2.583	2.584	-0.001	302054	0.10000	0.1386	39.49- 65.82	73.53
Average of Peak Amounts =					0.11982		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Date : 08-FEB-2010 16:21
Client ID:
Sample Info: 1232,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

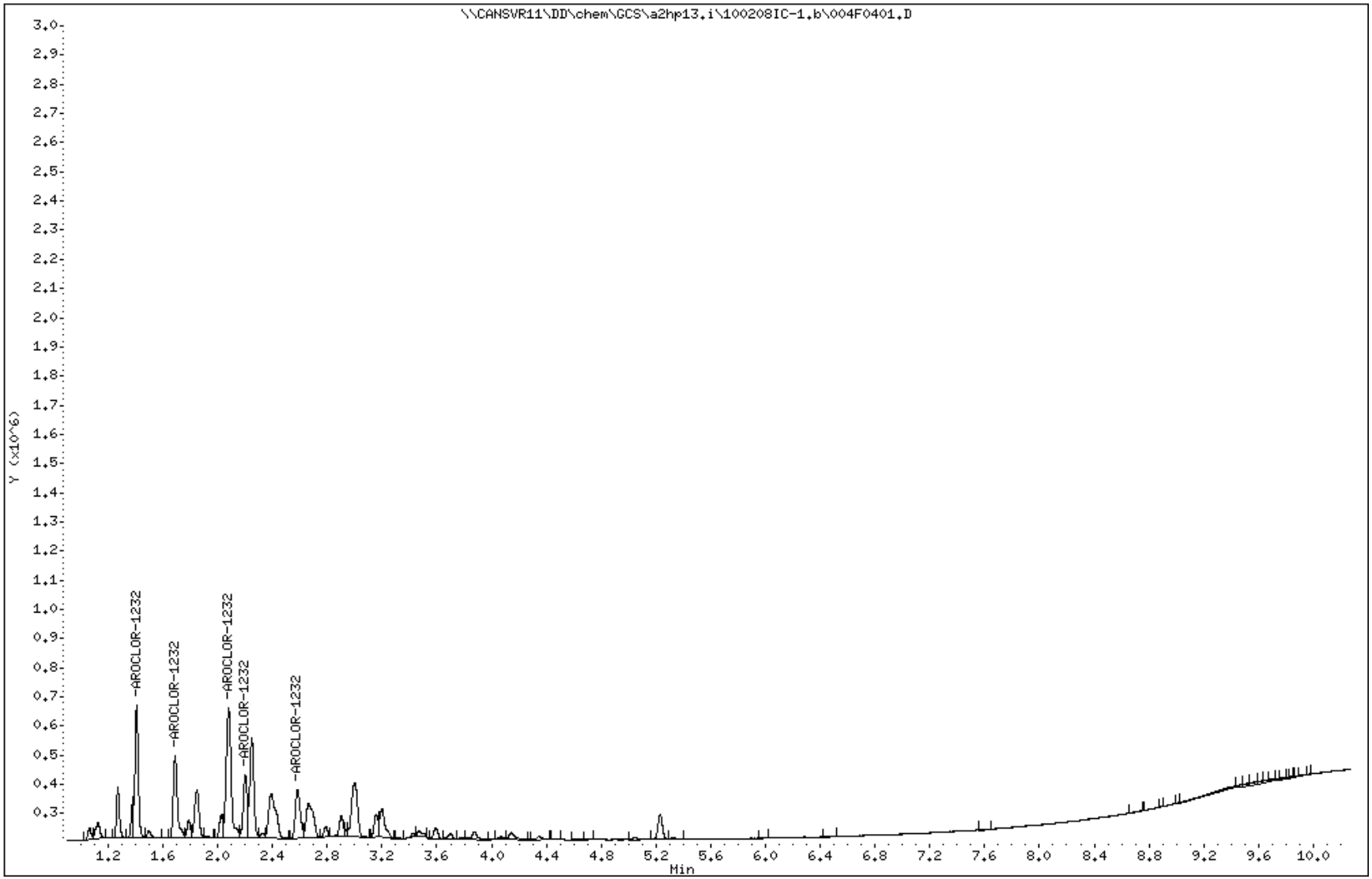
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:36
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,3
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.407	1.410	-0.003	768606	0.20000	0.2020	75.00- 125.00	100.00
1.688	1.691	-0.003	586848	0.20000	0.2032	56.26- 93.77	76.35
2.079	2.083	-0.004	1116647	0.20000	0.1992	108.88- 181.47	145.28
2.199	2.203	-0.004	433426	0.20000	0.1981	43.74- 72.91	56.39
2.580	2.584	-0.004	411638	0.20000	0.1890	39.49- 65.82	53.56
		Average of Peak Amounts =			0.19830		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D
Date : 08-FEB-2010 16:36
Client ID:
Sample Info: 1232,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

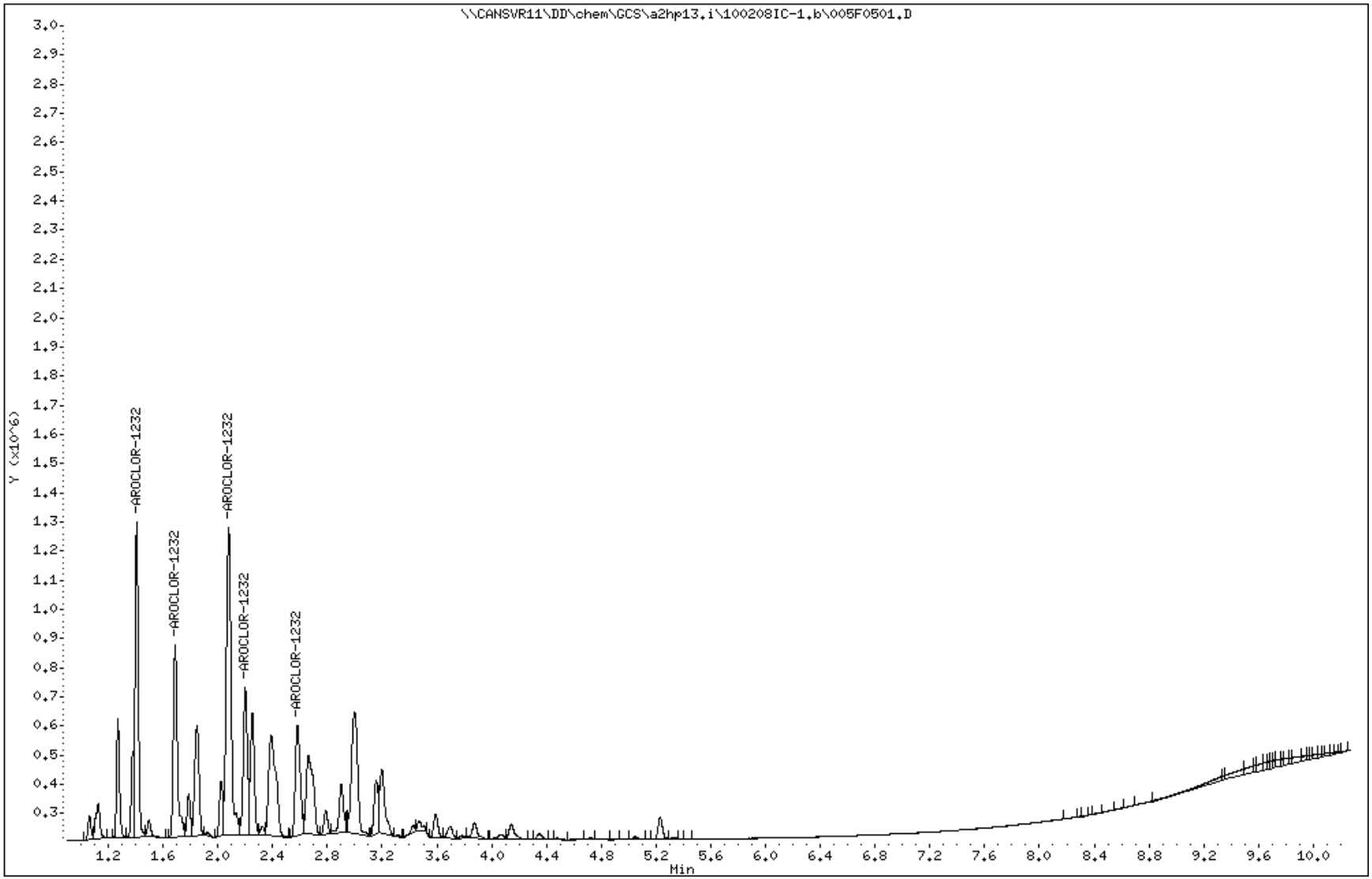
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 16:51
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,4
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.407	1.410	-0.003	1797246	0.50000	0.4723	75.00- 125.00	100.00
1.687	1.691	-0.004	1348213	0.50000	0.4668	56.26- 93.77	75.02
2.079	2.083	-0.004	2609232	0.50000	0.4655	108.88- 181.47	145.18
2.199	2.203	-0.004	1048238	0.50000	0.4791	43.74- 72.91	58.32
2.580	2.584	-0.004	946311	0.50000	0.4344	39.49- 65.82	52.65
		Average of Peak Amounts =			0.46362		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D
Date : 08-FEB-2010 16:51
Client ID:
Sample Info: 1232,,1,4
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

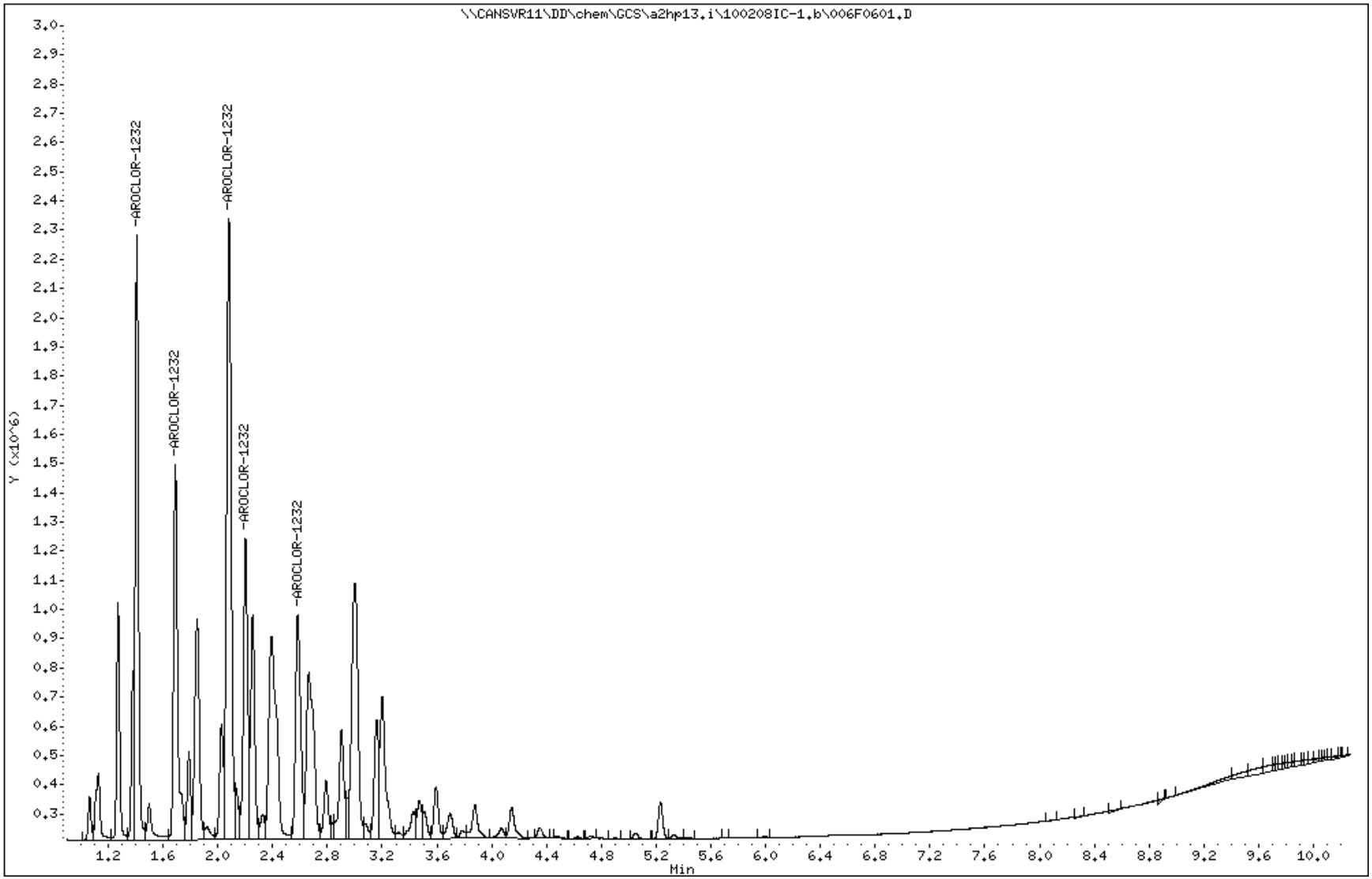
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 17:06
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,5
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.408	1.410	-0.002	3487449	1.00000	0.9165	75.00- 125.00	100.00
1.689	1.691	-0.002	2717869	1.00000	0.9411	56.26- 93.77	77.93
2.081	2.083	-0.002	5054049	1.00000	0.9017	108.88- 181.47	144.92
2.201	2.203	-0.002	2210230	1.00000	1.010	43.74- 72.91	63.38
2.582	2.584	-0.002	2012566	1.00000	0.9238	39.49- 65.82	57.71
		Average of Peak Amounts =			0.93862		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D
Date : 08-FEB-2010 17:06
Client ID:
Sample Info: 1232,,1,5
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D
Lab Smp Id: 1232
Inj Date : 08-FEB-2010 17:22
Operator : Inst ID: a2hp13.i
Smp Info : 1232,,1,6
Misc Info : 1-AR1232.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.410	1.410	0.000	6224110	2.00000	1.675	75.00- 125.00	100.00(M)
1.691	1.691	0.000	4818200	2.00000	1.668	56.26- 93.77	77.41
2.083	2.083	0.000	9407952	2.00000	1.678	108.88- 181.47	151.15
2.203	2.203	0.000	4021965	2.00000	1.838	43.74- 72.91	64.62
2.584	2.584	0.000	3695905	2.00000	1.696	39.49- 65.82	59.38
		Average of Peak Amounts =			1.71100		

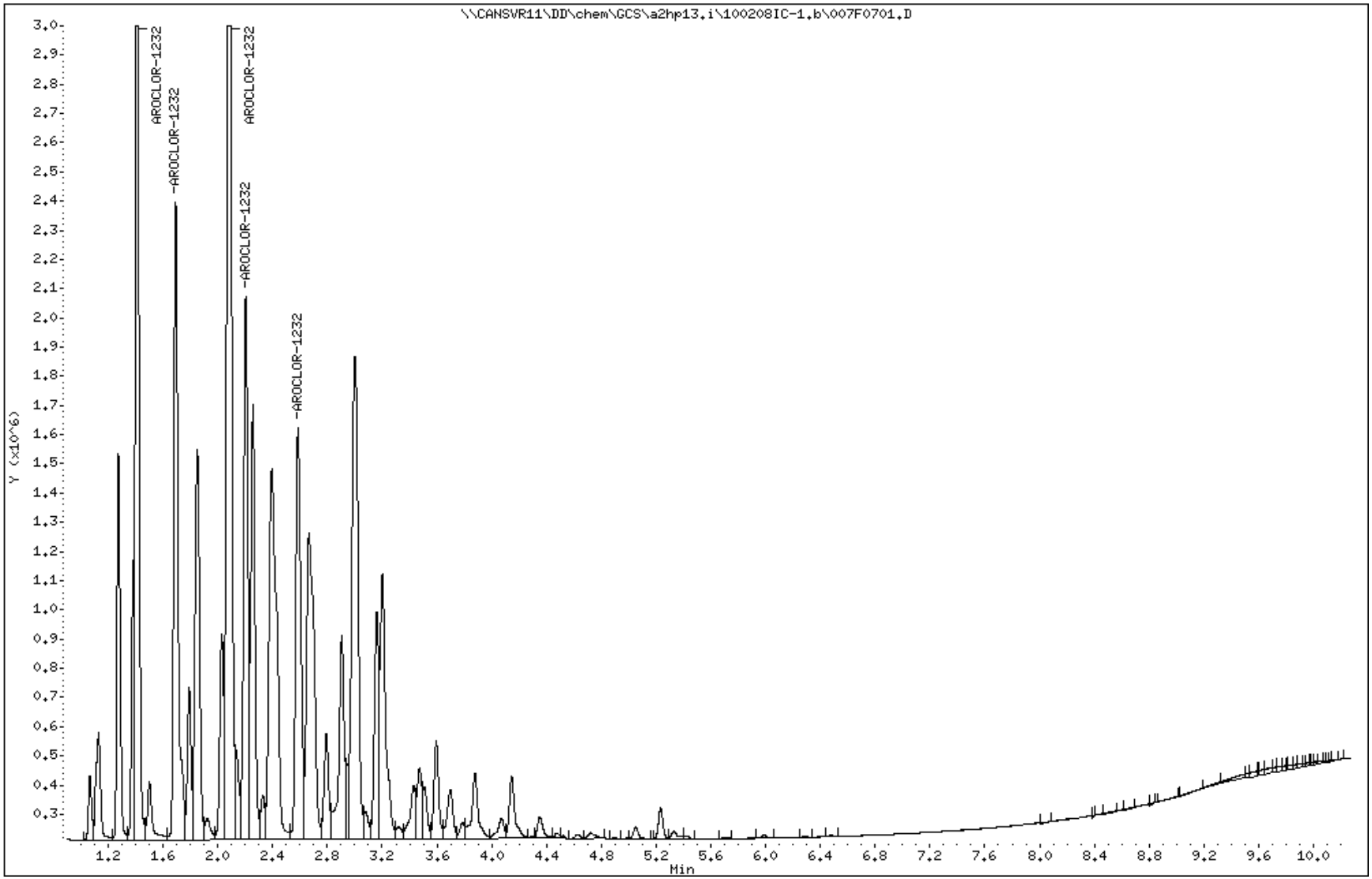
QC Flag Legend

M - Compound response manually integrated.

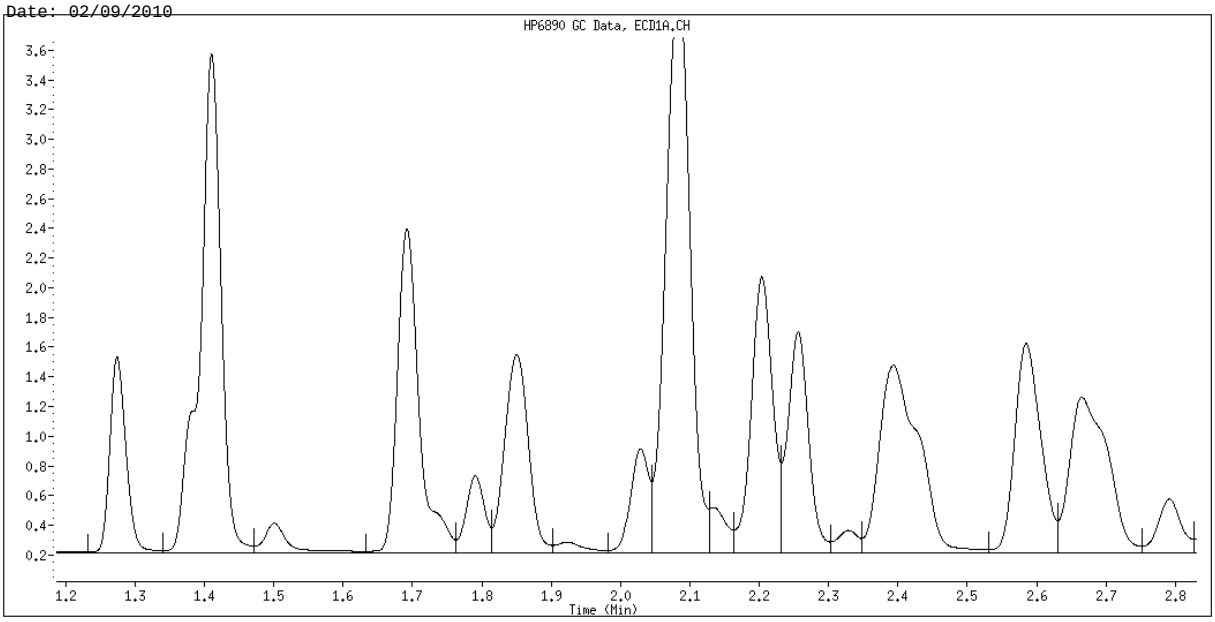
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D
Date : 08-FEB-2010 17:22
Client ID:
Sample Info: 1232,,1,6

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

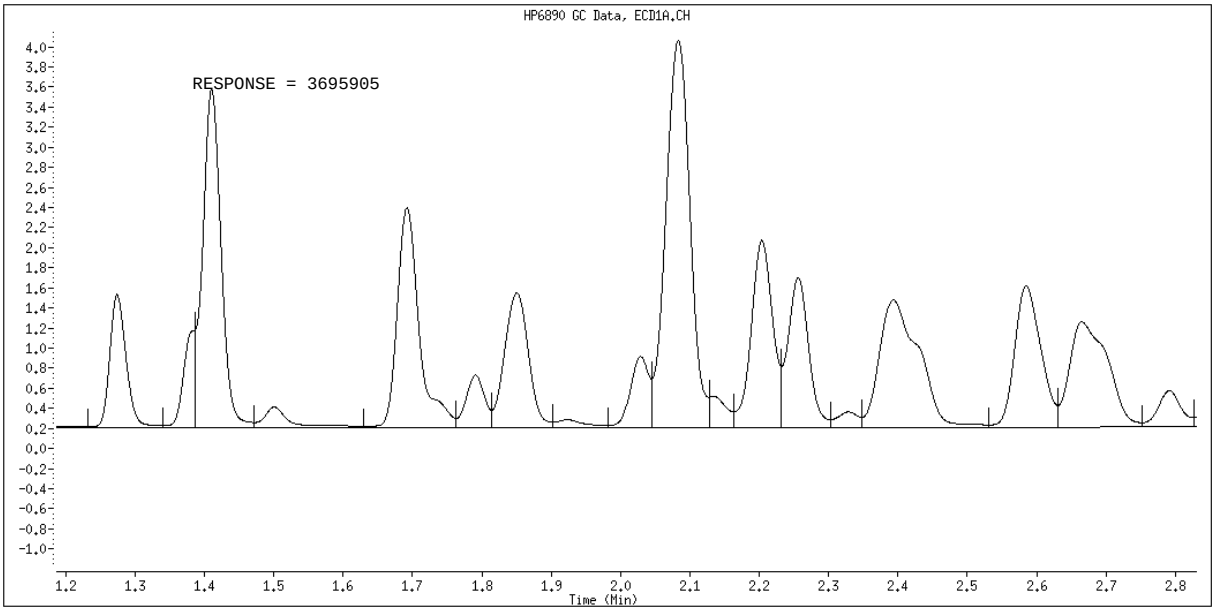
Column phase: restek pest clpI



Data File Name: 007F0701.D
Inj. Date and Time: 08-FEB-2010 17:22
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1232
CAS #: 11141-16-5
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

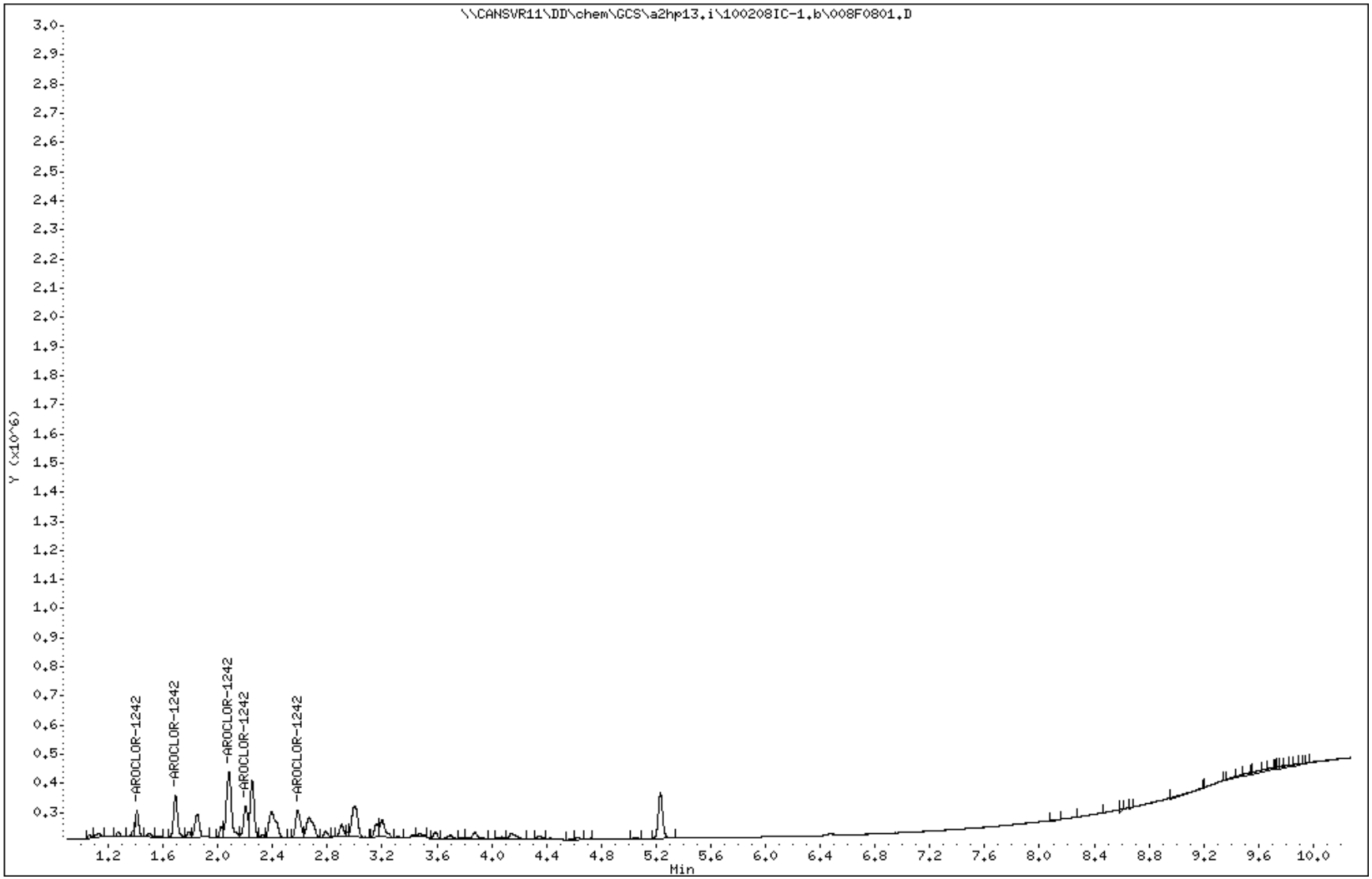
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 17:37
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,1
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	152973	0.05000	0.05535	75.00- 125.00	100.00
1.690	1.691	-0.001	281174	0.05000	0.05714	138.13- 230.21	183.81
2.081	2.082	-0.001	572992	0.05000	0.05820	278.38- 463.97	374.57
2.201	2.202	-0.001	223097	0.05000	0.05406	121.18- 201.97	145.84
2.583	2.584	-0.001	231051	0.05000	0.05564	121.92- 203.20	151.04
		Average of Peak Amounts =			0.05608		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
Date : 08-FEB-2010 17:37
Client ID:
Sample Info: 1242,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



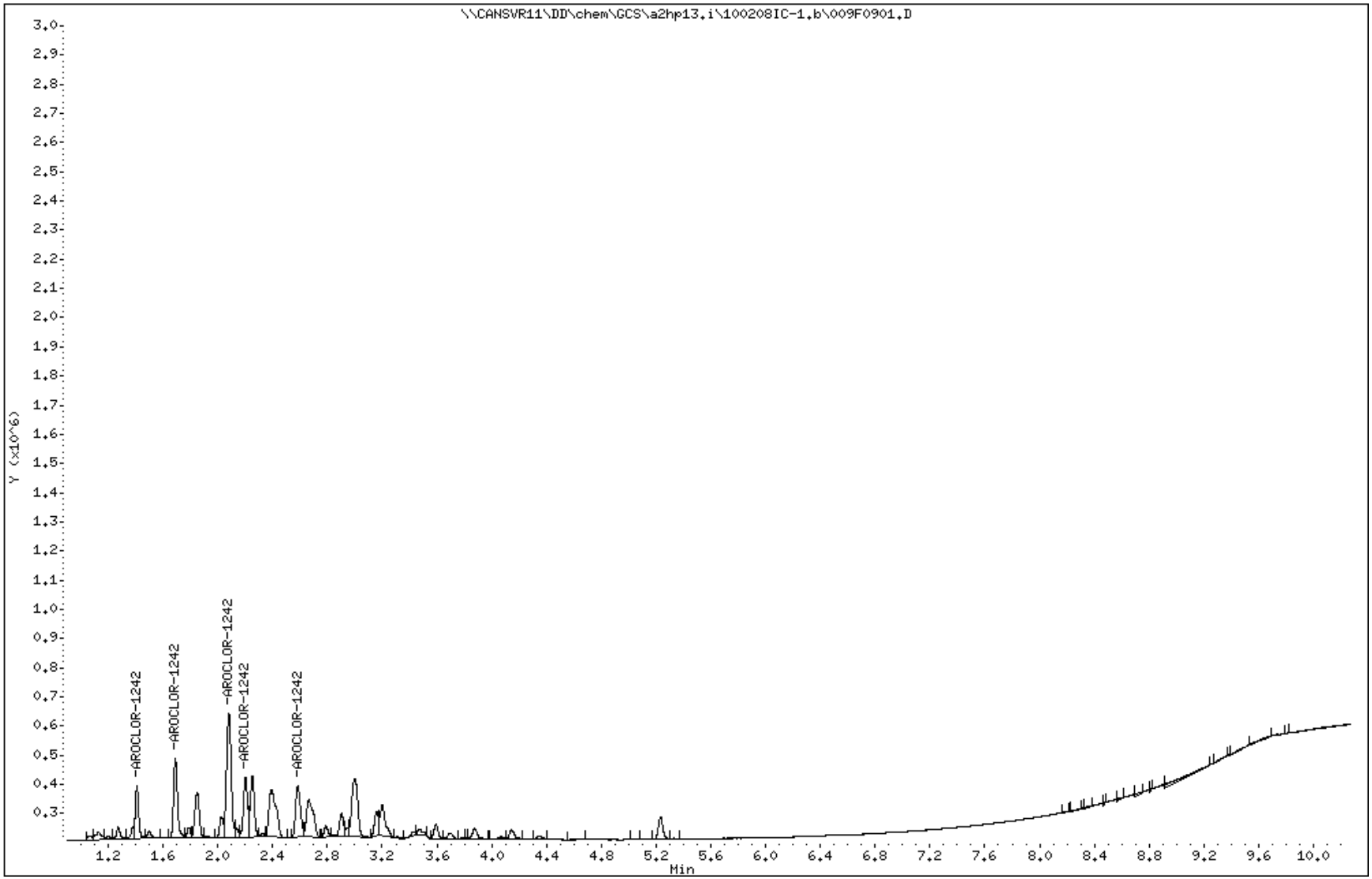
TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 17:51
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,2
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	305822	0.10000	0.1106	75.00- 125.00	100.00
1.689	1.691	-0.002	539941	0.10000	0.1097	138.13- 230.21	176.55
2.080	2.082	-0.002	1012750	0.10000	0.1029	278.38- 463.97	331.16
2.201	2.202	-0.001	431219	0.10000	0.1045	121.18- 201.97	141.00
2.583	2.584	-0.001	438498	0.10000	0.1056	121.92- 203.20	143.38
		Average of Peak Amounts =			0.10666		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
Date : 08-FEB-2010 17:51
Client ID:
Instrument: a2hp13.i
Sample Info: 1242,,1,2
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

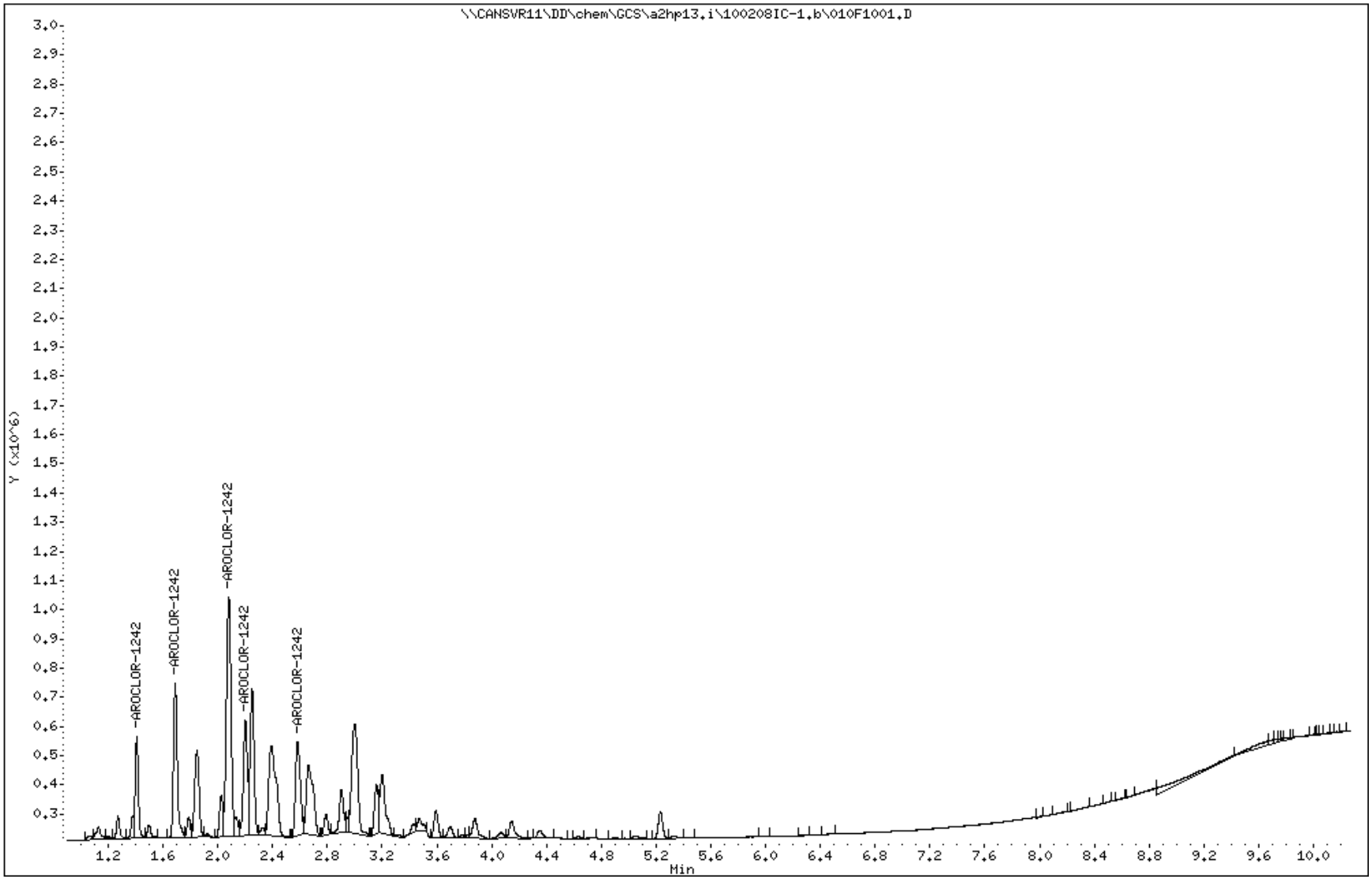
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:06
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,3
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.408	1.410	-0.002	562612	0.20000	0.2036	75.00- 125.00	100.00
1.689	1.691	-0.002	1025821	0.20000	0.2085	138.13- 230.21	182.33
2.079	2.082	-0.003	1942009	0.20000	0.1972	278.38- 463.97	345.18
2.201	2.202	-0.001	819921	0.20000	0.1987	121.18- 201.97	145.73
2.582	2.584	-0.002	800715	0.20000	0.1928	121.92- 203.20	142.32
		Average of Peak Amounts =			0.20016		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
Date : 08-FEB-2010 18:06
Client ID:
Sample Info: 1242,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

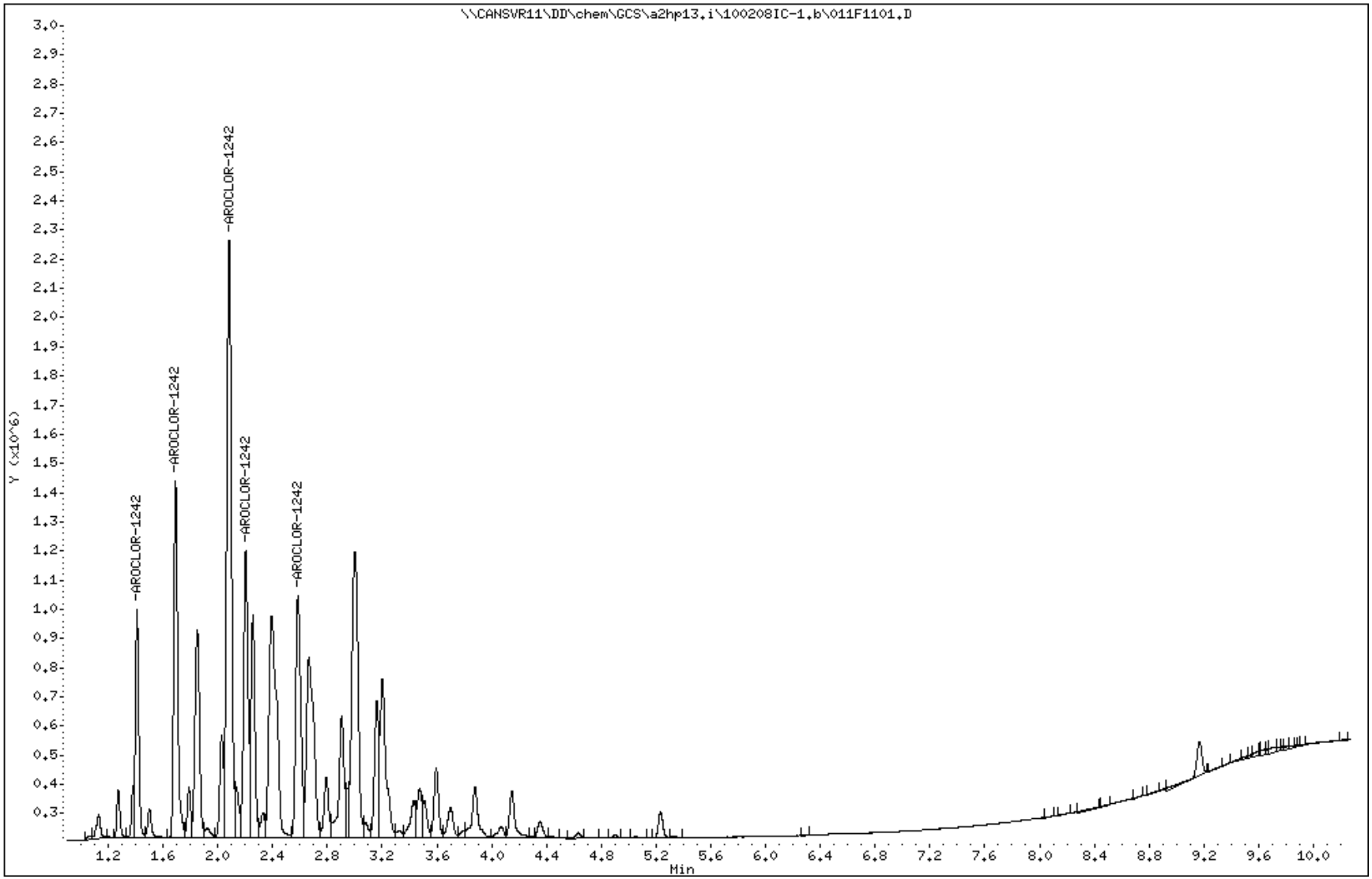
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:22
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,4
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.409	1.410	-0.001	1331718	0.50000	0.4919	75.00- 125.00	100.00
1.691	1.691	0.000	2452648	0.50000	0.4984	138.13- 230.21	184.17
2.083	2.082	0.001	4942983	0.50000	0.5021	278.38- 463.97	371.17
2.204	2.202	0.002	2151688	0.50000	0.5214	121.18- 201.97	161.57
2.584	2.584	0.000	2164834	0.50000	0.5213	121.92- 203.20	162.56
Average of Peak Amounts =					0.50702		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
Date : 08-FEB-2010 18:22
Client ID:
Sample Info: 1242,,1,4

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

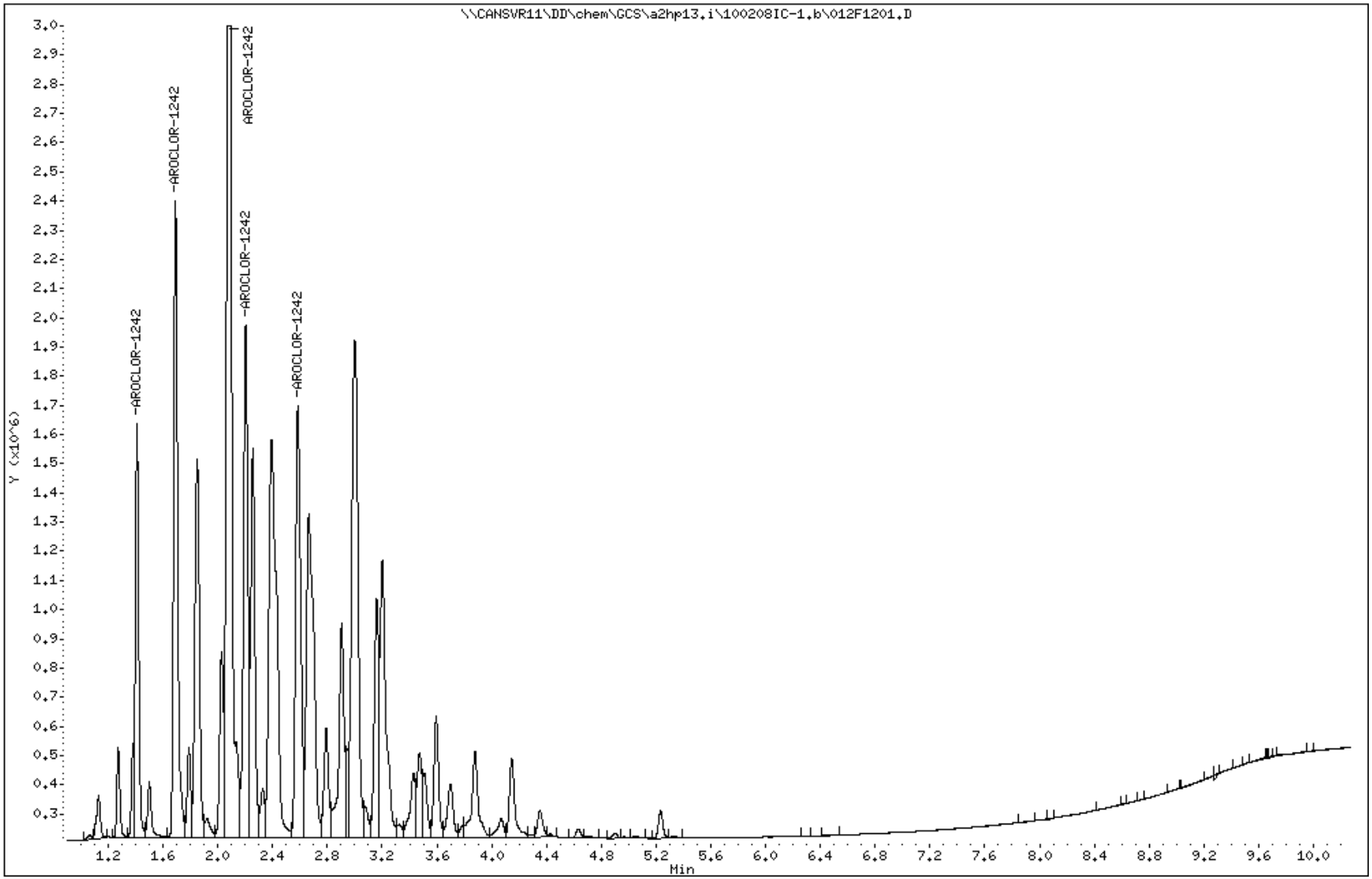
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:37
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,5
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.409	1.410	-0.001	2414223	1.00000	0.8917	75.00- 125.00	100.00
1.690	1.691	-0.001	4430570	1.00000	0.9004	138.13- 230.21	183.52
2.082	2.082	0.000	9438043	1.00000	0.9587	278.38- 463.97	390.94
2.202	2.202	0.000	3887106	1.00000	0.9419	121.18- 201.97	161.01
2.583	2.584	-0.001	3860688	1.00000	0.9297	121.92- 203.20	159.91
Average of Peak Amounts =					0.92448		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
Date : 08-FEB-2010 18:37
Client ID:
Sample Info: 1242,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

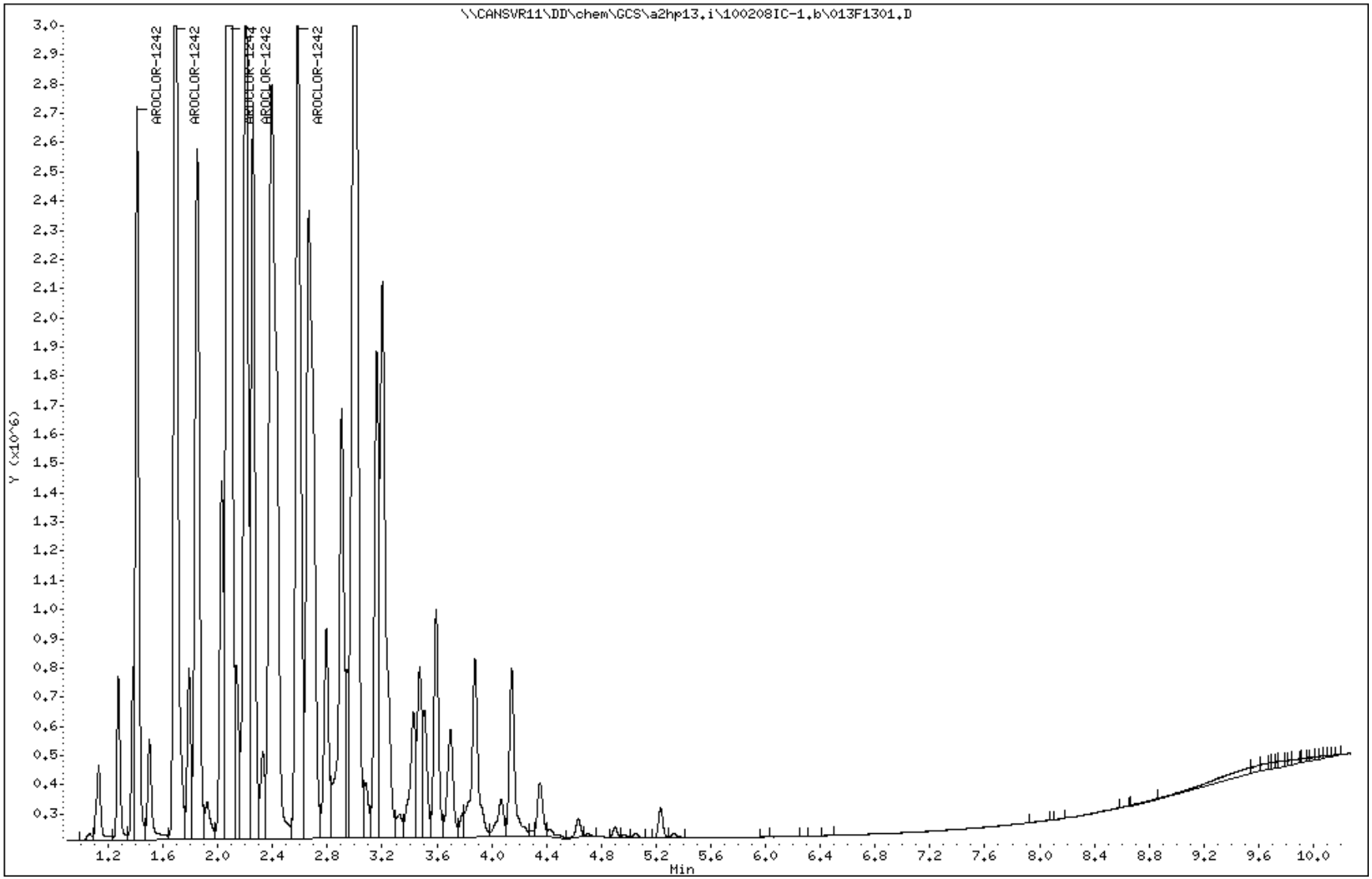
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
Lab Smp Id: 1242
Inj Date : 08-FEB-2010 18:51
Operator : Inst ID: a2hp13.i
Smp Info : 1242,,1,6
Misc Info : 2-AR1242.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.410	1.410	0.000	4472965	2.00000	1.652	75.00- 125.00	100.00(M)
1.691	1.691	0.000	8070198	2.00000	1.640	138.13- 230.21	180.42
2.082	2.082	0.000	16897043	2.00000	1.716	278.38- 463.97	377.76
2.202	2.202	0.000	7391668	2.00000	1.791	121.18- 201.97	165.25
2.584	2.584	0.000	7432456	2.00000	1.790	121.92- 203.20	166.16
		Average of Peak Amounts =			1.71780		

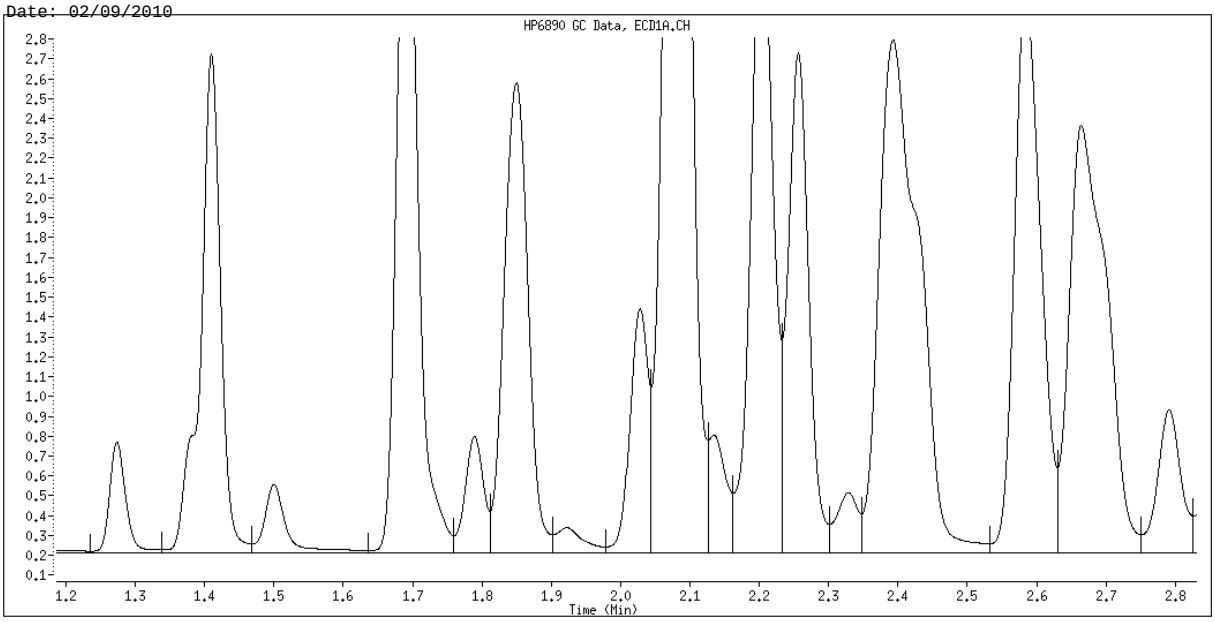
QC Flag Legend

M - Compound response manually integrated.

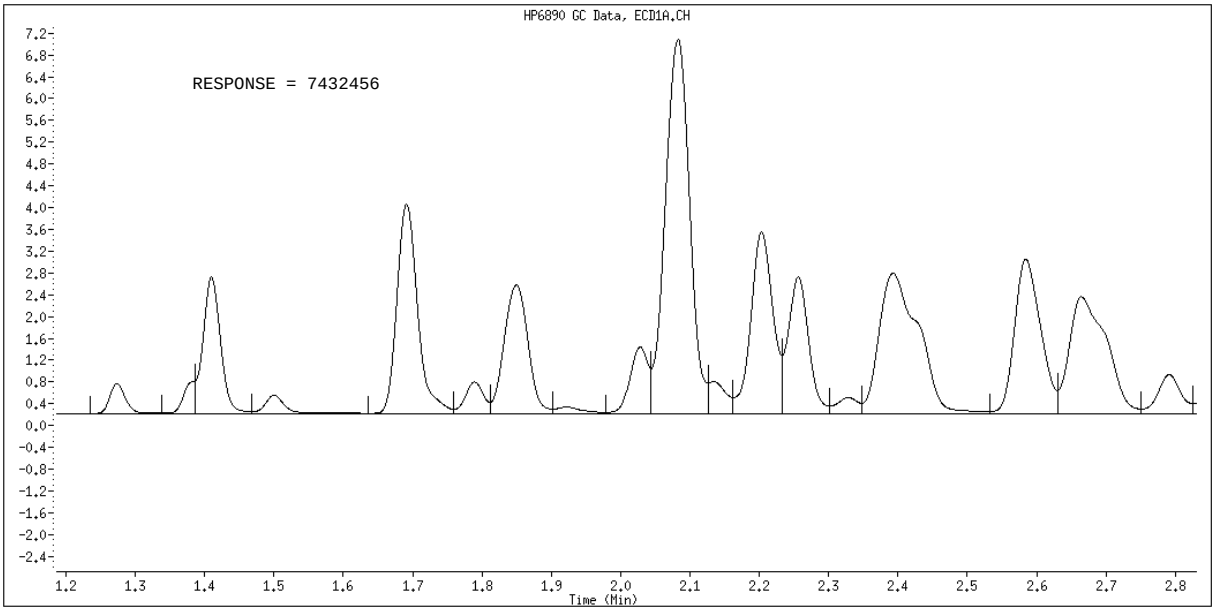
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
Date : 08-FEB-2010 18:51
Client ID:
Instrument: a2hp13.i
Sample Info: 1242,,1,6
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 013F1301.D
Inj. Date and Time: 08-FEB-2010 18:51
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1242
CAS #: 53469-21-9
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

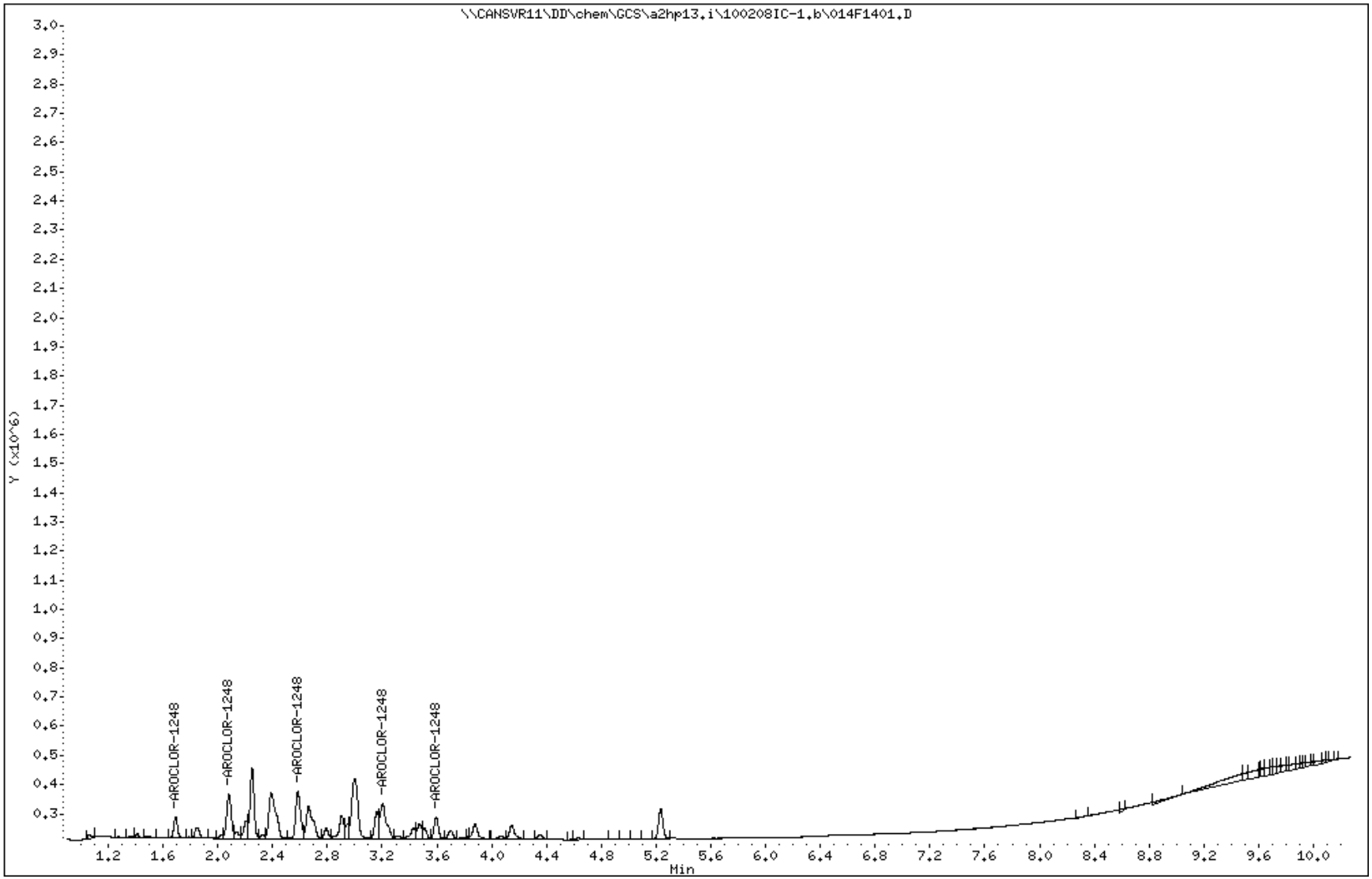
TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:06
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,1
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 14 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE				
6 AROCLOR-1248					CAS #: 12672-29-6		
1.690	1.689	0.001	72700	0.05000	0.05611	75.00- 125.00	100.00
2.080	2.081	-0.001	150545	0.05000	0.05569	156.55- 260.91	207.08
2.582	2.583	-0.001	160102	0.05000	0.05714	162.02- 270.04	220.22
3.202	3.202	0.000	120160	0.05000	0.05566	123.26- 205.43	165.28
3.593	3.595	-0.002	74108	0.05000	0.05373	77.67- 129.46	101.94
		Average of Peak Amounts =			0.05567		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
Date : 08-FEB-2010 19:06
Client ID:
Instrument: a2hp13.i
Sample Info: 1248,,1,1
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

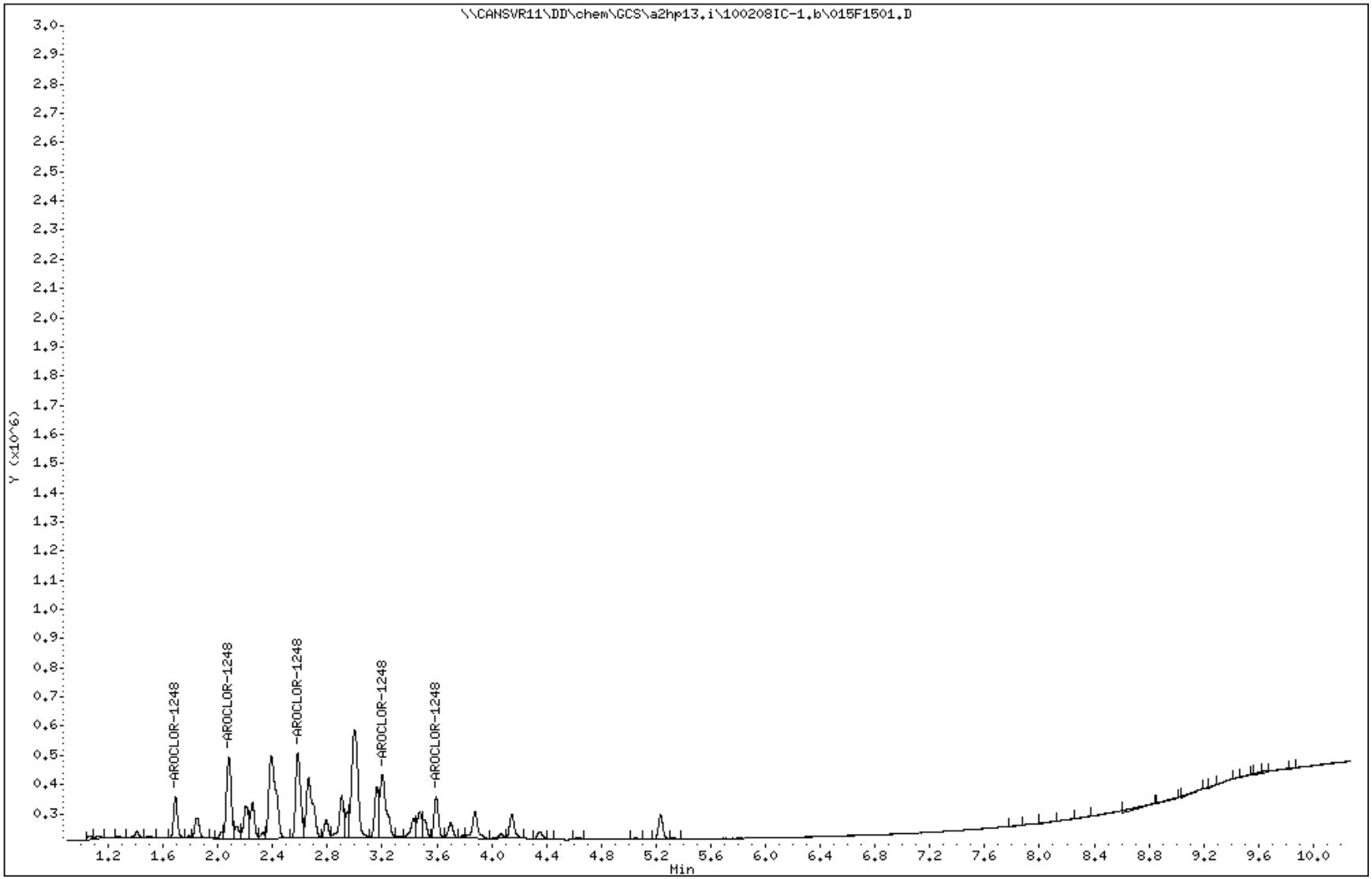
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:21
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,2
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	142026	0.10000	0.1096	75.00- 125.00	100.00
2.081	2.081	0.000	279006	0.10000	0.1032	156.55- 260.91	196.45
2.583	2.583	0.000	293382	0.10000	0.1047	162.02- 270.04	206.57
3.203	3.202	0.001	219773	0.10000	0.1018	123.26- 205.43	154.74
3.594	3.595	-0.001	142460	0.10000	0.1033	77.67- 129.46	100.31
		Average of Peak Amounts =			0.10452		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
Date : 08-FEB-2010 19:21
Client ID:
Sample Info: 1248,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

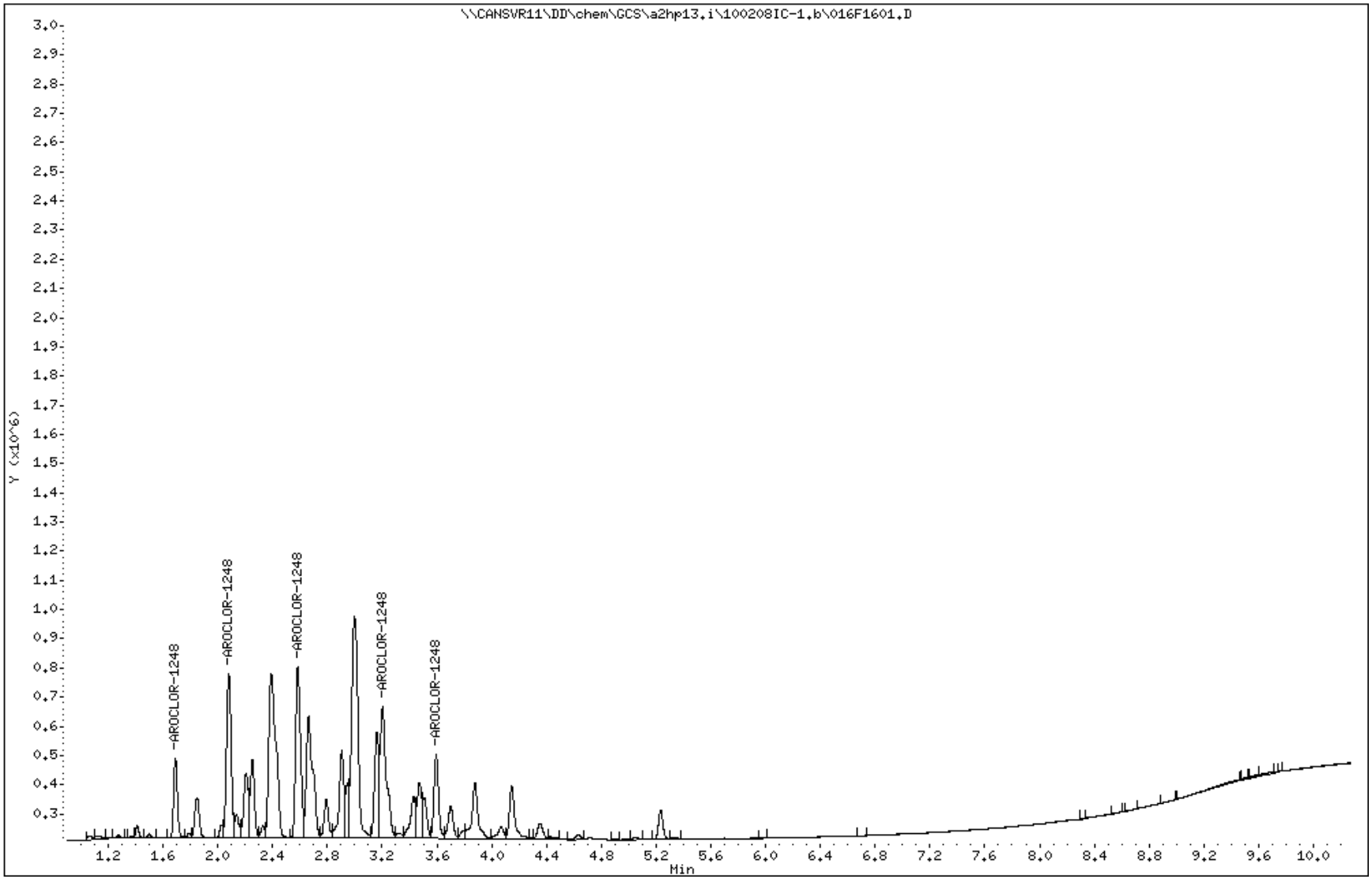
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:36
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,3
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 16 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	274012	0.20000	0.2115	75.00- 125.00	100.00
2.080	2.081	-0.001	564126	0.20000	0.2087	156.55- 260.91	205.88
2.583	2.583	0.000	585739	0.20000	0.2090	162.02- 270.04	213.76
3.203	3.202	0.001	449850	0.20000	0.2084	123.26- 205.43	164.17
3.593	3.595	-0.002	290159	0.20000	0.2104	77.67- 129.46	105.89
		Average of Peak Amounts =			0.20960		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D
Date : 08-FEB-2010 19:36
Client ID:
Sample Info: 1248,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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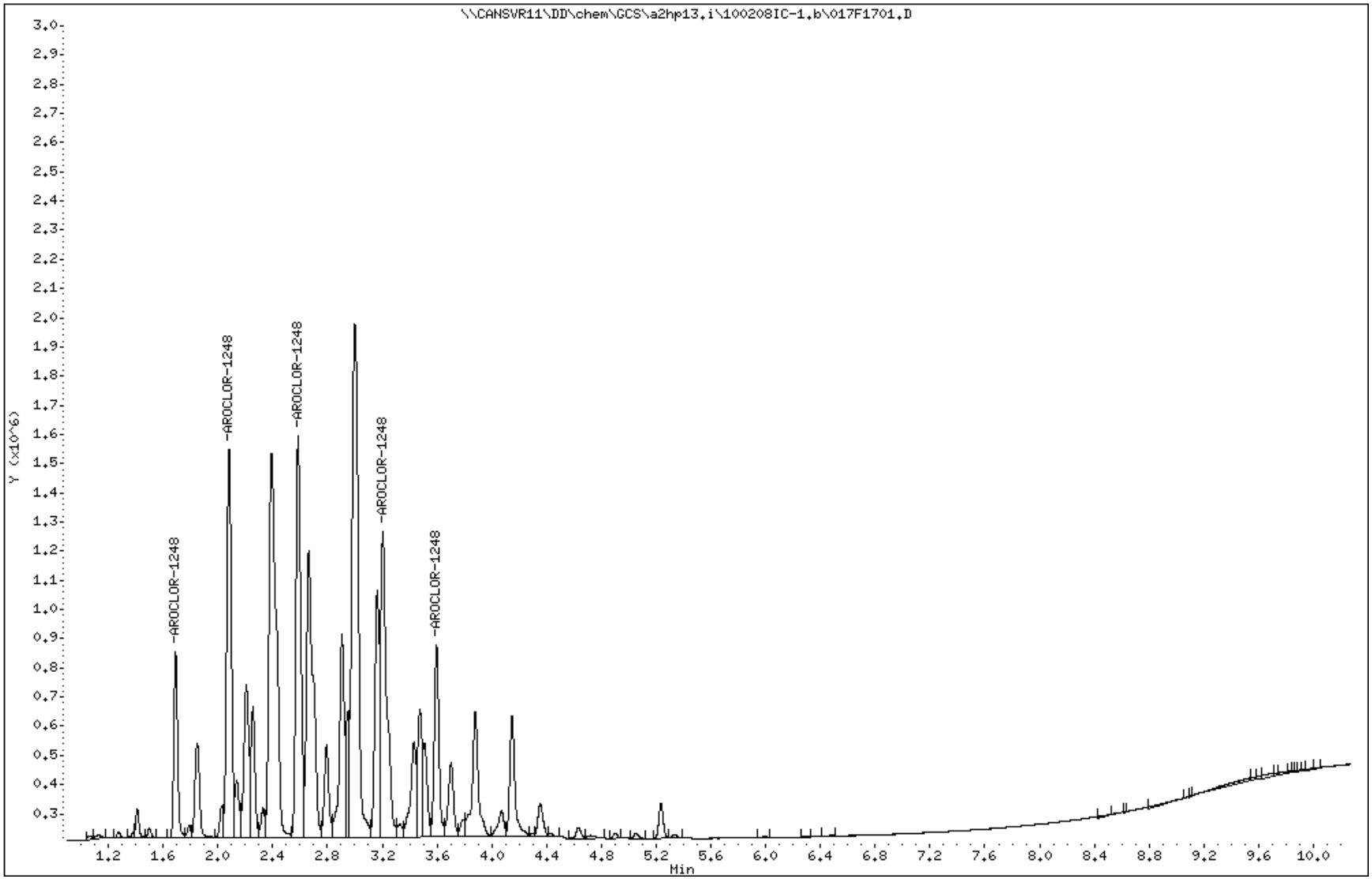
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 19:51
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,4
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 17 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.690	1.689	0.001	637110	0.50000	0.4917	75.00- 125.00	100.00
2.081	2.081	0.000	1329828	0.50000	0.4919	156.55- 260.91	208.73
2.585	2.583	0.002	1376369	0.50000	0.4912	162.02- 270.04	216.03
3.205	3.202	0.003	1047033	0.50000	0.4850	123.26- 205.43	164.34
3.595	3.595	0.000	659817	0.50000	0.4784	77.67- 129.46	103.56
		Average of Peak Amounts =			0.48764		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
Date : 08-FEB-2010 19:51
Client ID:
Sample Info: 1248,,1,4
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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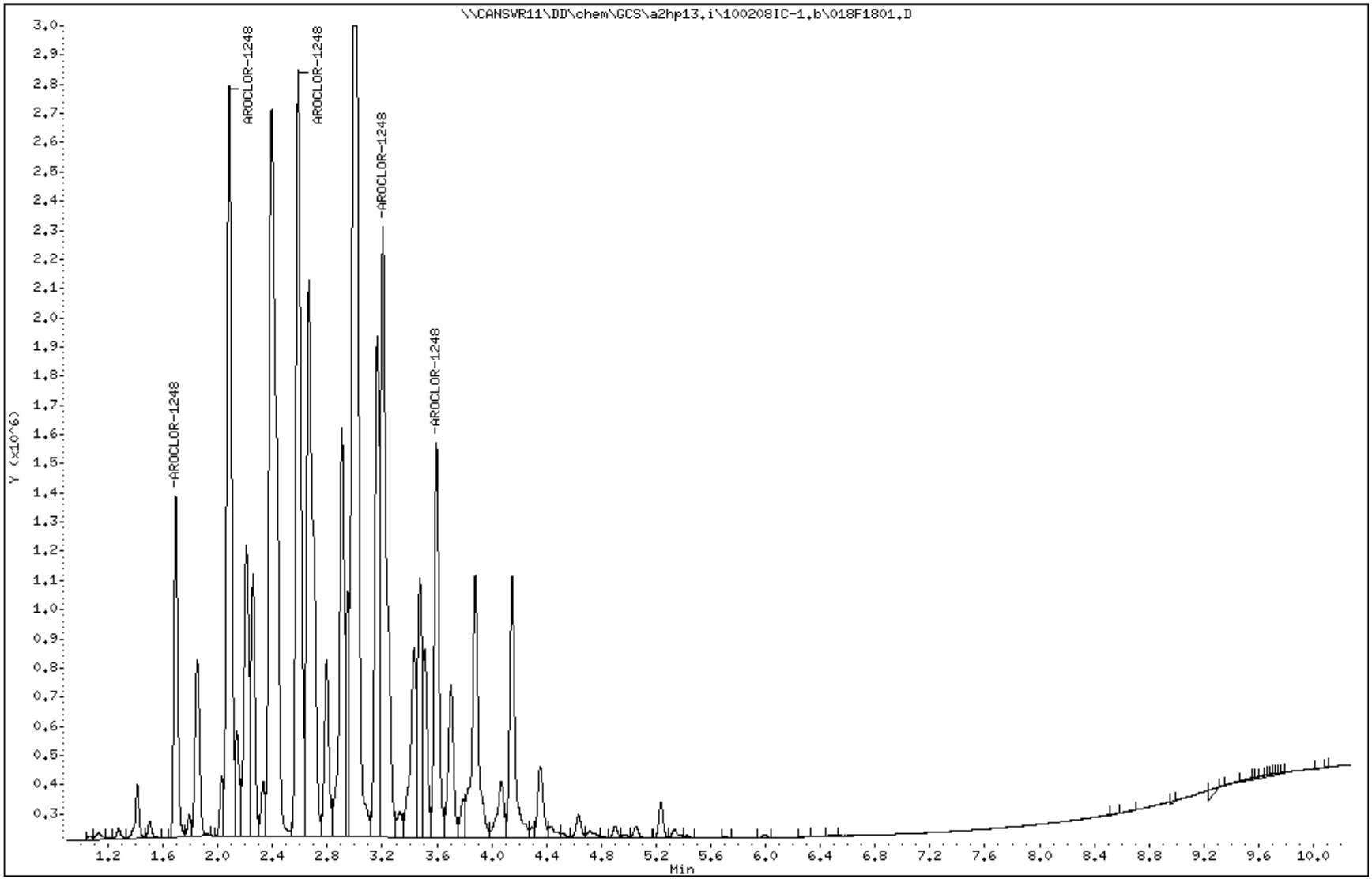
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 20:07
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,5
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.692	1.689	0.003	1169565	1.00000	0.9026	75.00- 125.00	100.00
2.081	2.081	0.000	2569180	1.00000	0.9504	156.55- 260.91	219.67
2.585	2.583	0.002	2628508	1.00000	0.9380	162.02- 270.04	224.74
3.204	3.202	0.002	2089068	1.00000	0.9678	123.26- 205.43	178.62
3.595	3.595	0.000	1353246	1.00000	0.9811	77.67- 129.46	115.71
		Average of Peak Amounts =			0.94798		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
Date : 08-FEB-2010 20:07
Client ID:
Sample Info: 1248,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

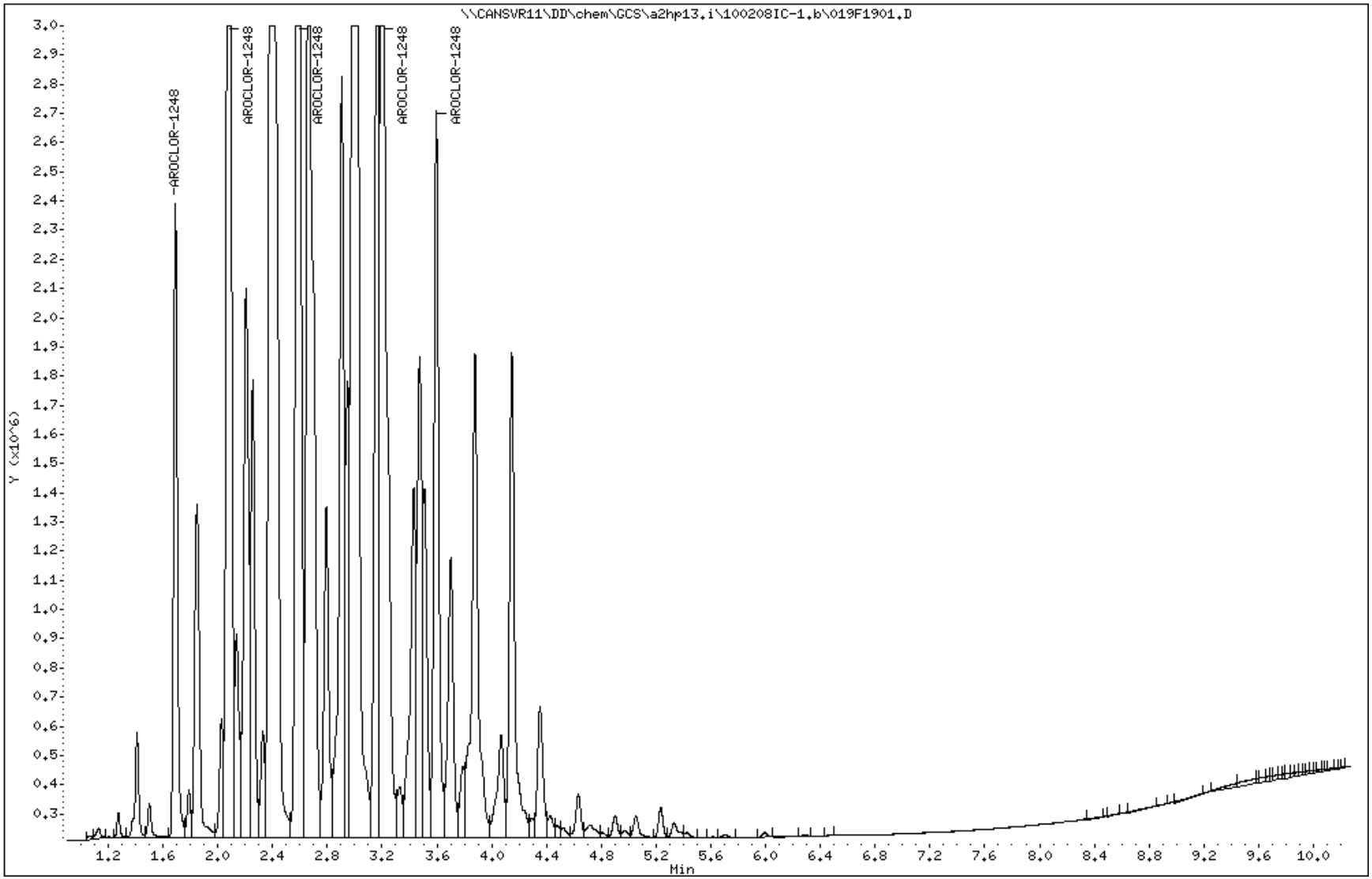
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
Lab Smp Id: 1248
Inj Date : 08-FEB-2010 20:22
Operator : Inst ID: a2hp13.i
Smp Info : 1248,,1,6
Misc Info : 3-AR1248.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 19 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.689	1.689	0.000	2172800	2.00000	1.677	75.00- 125.00	100.00
2.081	2.081	0.000	4738942	2.00000	1.753	156.55- 260.91	218.10
2.583	2.583	0.000	4733633	2.00000	1.689	162.02- 270.04	217.86
3.202	3.202	0.000	3836733	2.00000	1.777	123.26- 205.43	176.58
3.595	3.595	0.000	2491009	2.00000	1.806	77.67- 129.46	114.65
		Average of Peak Amounts =			1.74040		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
Date : 08-FEB-2010 20:22
Client ID:
Sample Info: 1248,,1,6

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

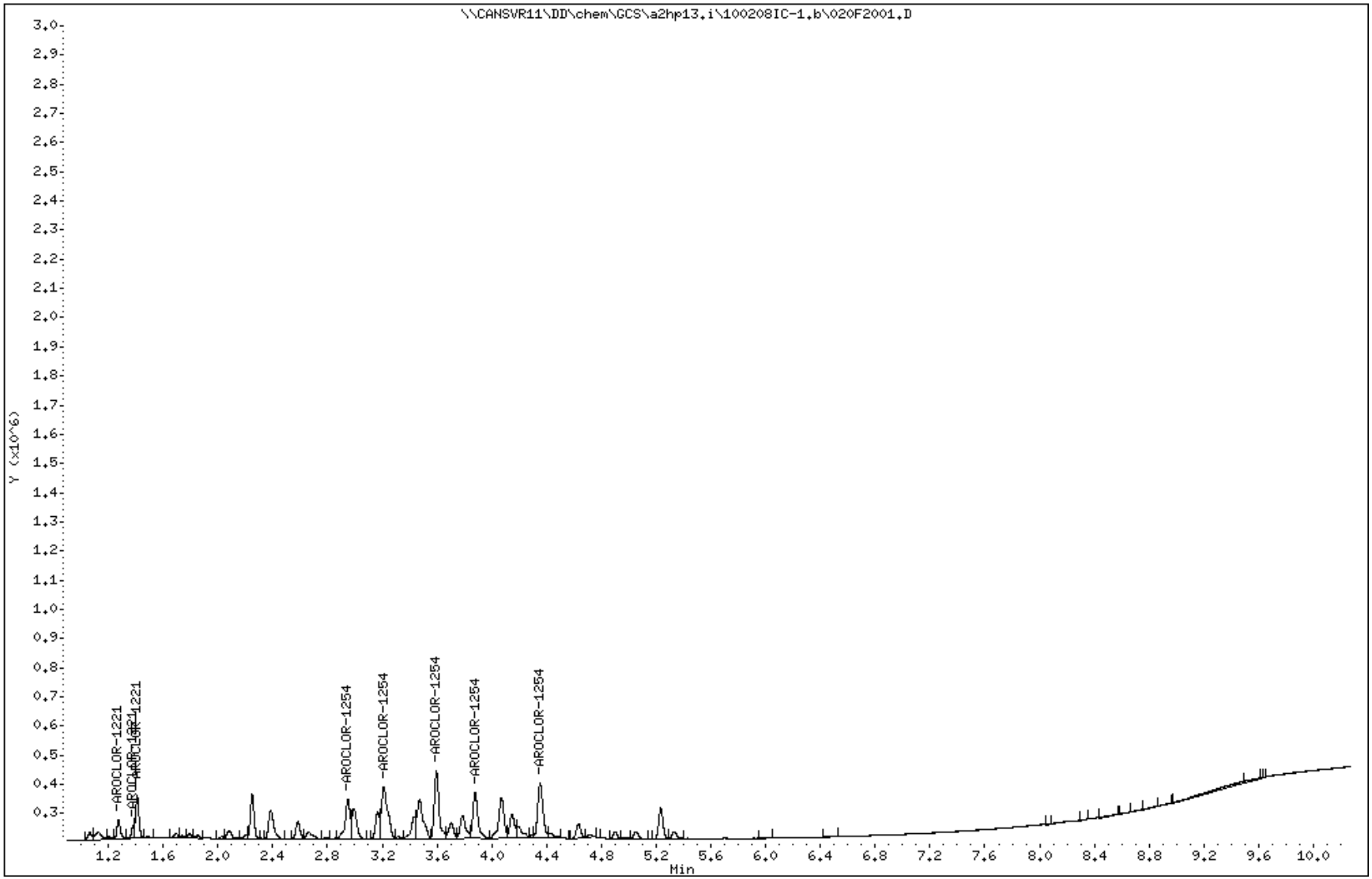
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 20:36
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,1
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 20 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.948	2.951	-0.003	135822	0.05000	0.05856	75.00- 125.00	100.00
3.211	3.213	-0.002	178586	0.05000	0.05870	98.18- 163.63	131.49
3.595	3.597	-0.002	231015	0.05000	0.05659	132.08- 220.13	170.09
3.880	3.881	-0.001	156155	0.05000	0.05541	89.69- 149.48	114.97
4.352	4.354	-0.002	186311	0.05000	0.05506	107.68- 179.46	137.17
		Average of Peak Amounts =			0.05686		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	65347	0.05000	0.05316	75.00- 125.00	100.00
1.380	1.391	-0.011	42412	0.05000	0.05299	49.63- 82.71	64.90
1.410	1.412	-0.002	145084	0.05000	0.05276	164.10- 273.51	222.02
		Average of Peak Amounts =			0.05297		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
Date : 08-FEB-2010 20:36
Client ID:
Sample Info: 1254,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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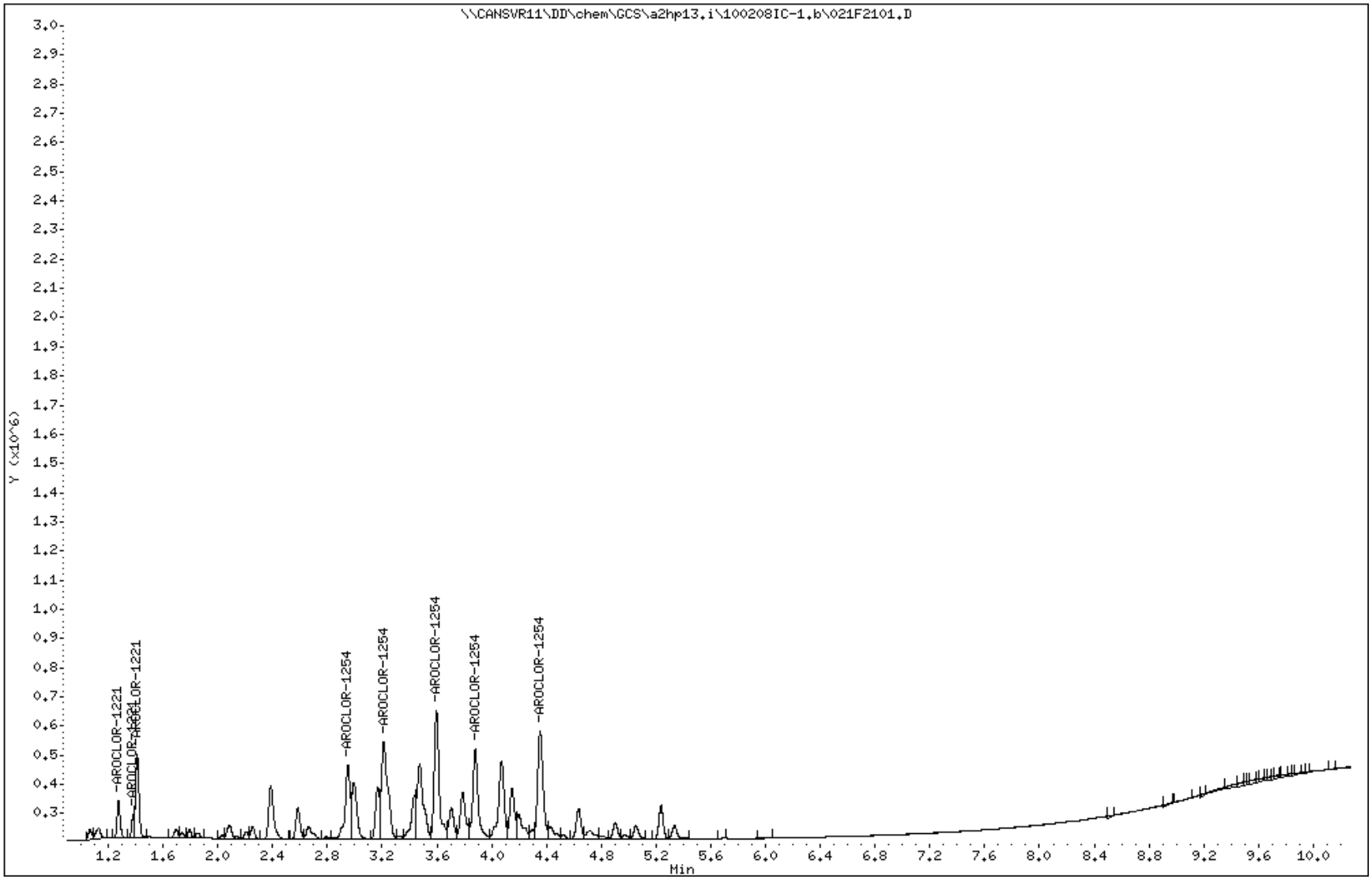
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 20:52
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,2
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 21 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	252847	0.10000	0.1090	75.00- 125.00	100.00
3.211	3.213	-0.002	332623	0.10000	0.1093	98.18- 163.63	131.55
3.596	3.597	-0.001	437608	0.10000	0.1072	132.08- 220.13	173.07
3.880	3.881	-0.001	306740	0.10000	0.1088	89.69- 149.48	121.31
4.353	4.354	-0.001	367484	0.10000	0.1086	107.68- 179.46	145.34
		Average of Peak Amounts =			0.10858		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	126128	0.10000	0.1026	75.00- 125.00	100.00
1.382	1.391	-0.009	79401	0.10000	0.09921	49.63- 82.71	62.95
1.411	1.412	-0.001	286292	0.10000	0.1041	164.10- 273.51	226.99
		Average of Peak Amounts =			0.10197		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
Date : 08-FEB-2010 20:52
Client ID:
Sample Info: 1254,,1,2
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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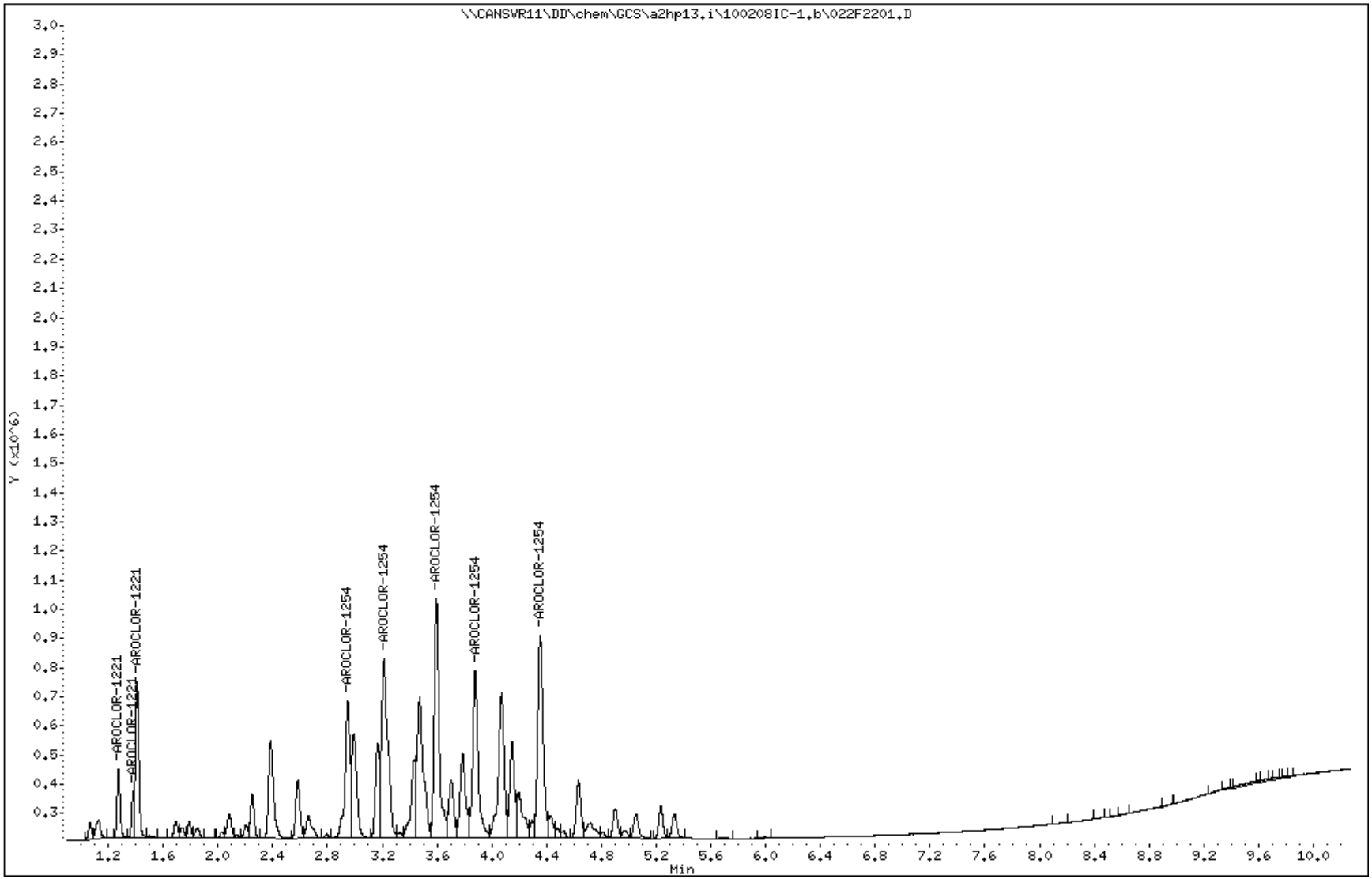
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:07
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,3
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 22 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	466592	0.20000	0.2012	75.00- 125.00	100.00
3.211	3.213	-0.002	612539	0.20000	0.2013	98.18- 163.63	131.28
3.595	3.597	-0.002	819107	0.20000	0.2007	132.08- 220.13	175.55
3.879	3.881	-0.002	570418	0.20000	0.2024	89.69- 149.48	122.25
4.353	4.354	-0.001	694495	0.20000	0.2052	107.68- 179.46	148.84
	Average of Peak Amounts =				0.20216		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	235833	0.20000	0.1918	75.00- 125.00	100.00
1.381	1.391	-0.010	156993	0.20000	0.1962	49.63- 82.71	66.57
1.410	1.412	-0.002	534783	0.20000	0.1945	164.10- 273.51	226.76
	Average of Peak Amounts =				0.19417		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
Date : 08-FEB-2010 21:07
Client ID:
Sample Info: 1254,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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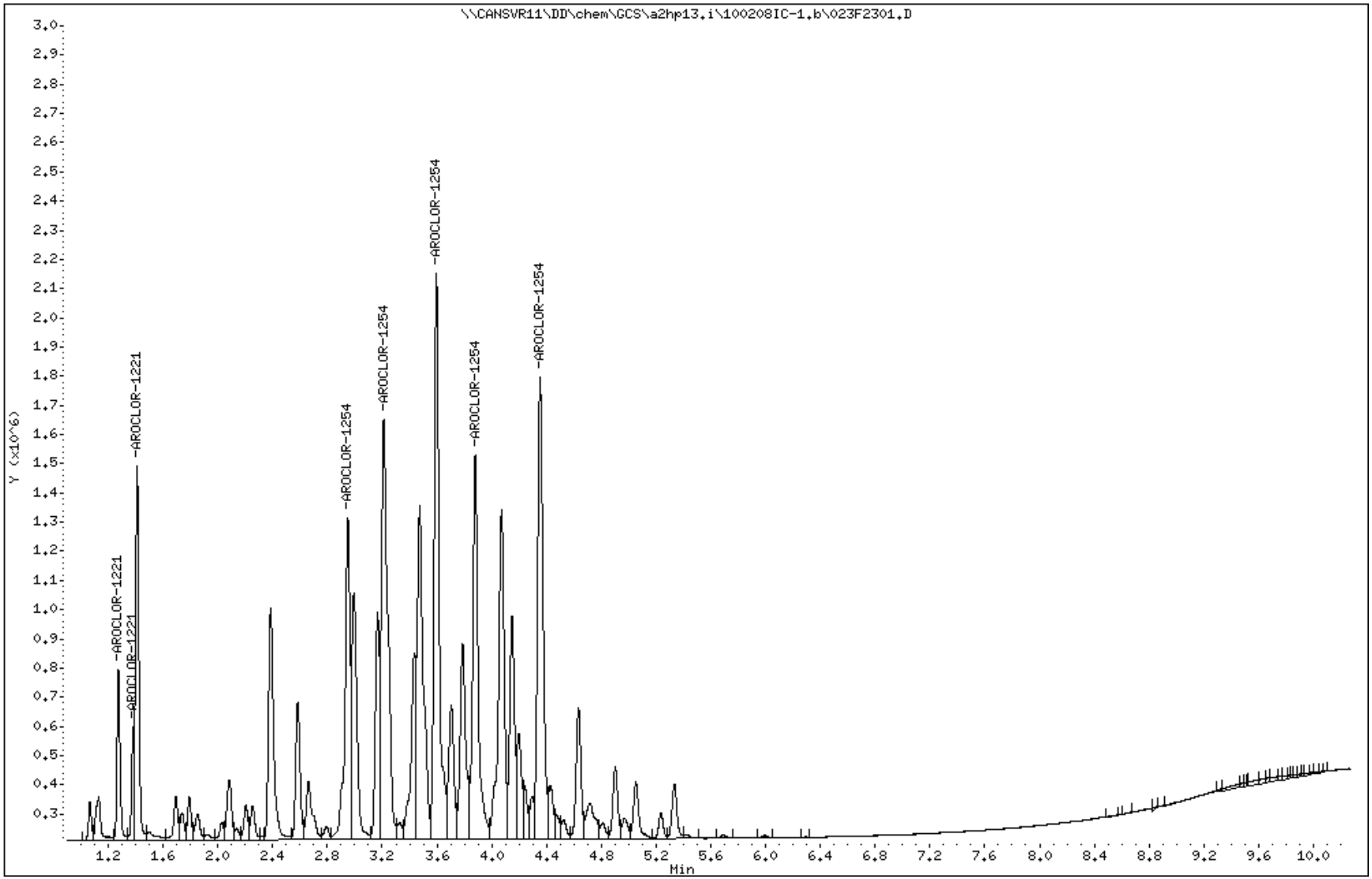
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:21
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,4
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 23 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	1100653	0.50000	0.4746	75.00- 125.00	100.00
3.211	3.213	-0.002	1440822	0.50000	0.4736	98.18- 163.63	130.91
3.596	3.597	-0.001	1938328	0.50000	0.4748	132.08- 220.13	176.11
3.880	3.881	-0.001	1316213	0.50000	0.4671	89.69- 149.48	119.58
4.353	4.354	-0.001	1580187	0.50000	0.4670	107.68- 179.46	143.57
		Average of Peak Amounts =			0.47142		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	584948	0.50000	0.4758	75.00- 125.00	100.00
1.381	1.391	-0.010	387055	0.50000	0.4836	49.63- 82.71	66.17
1.410	1.412	-0.002	1279897	0.50000	0.4655	164.10- 273.51	218.81
		Average of Peak Amounts =			0.47497		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
Date : 08-FEB-2010 21:21
Client ID:
Sample Info: 1254,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:36
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,5
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 24 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

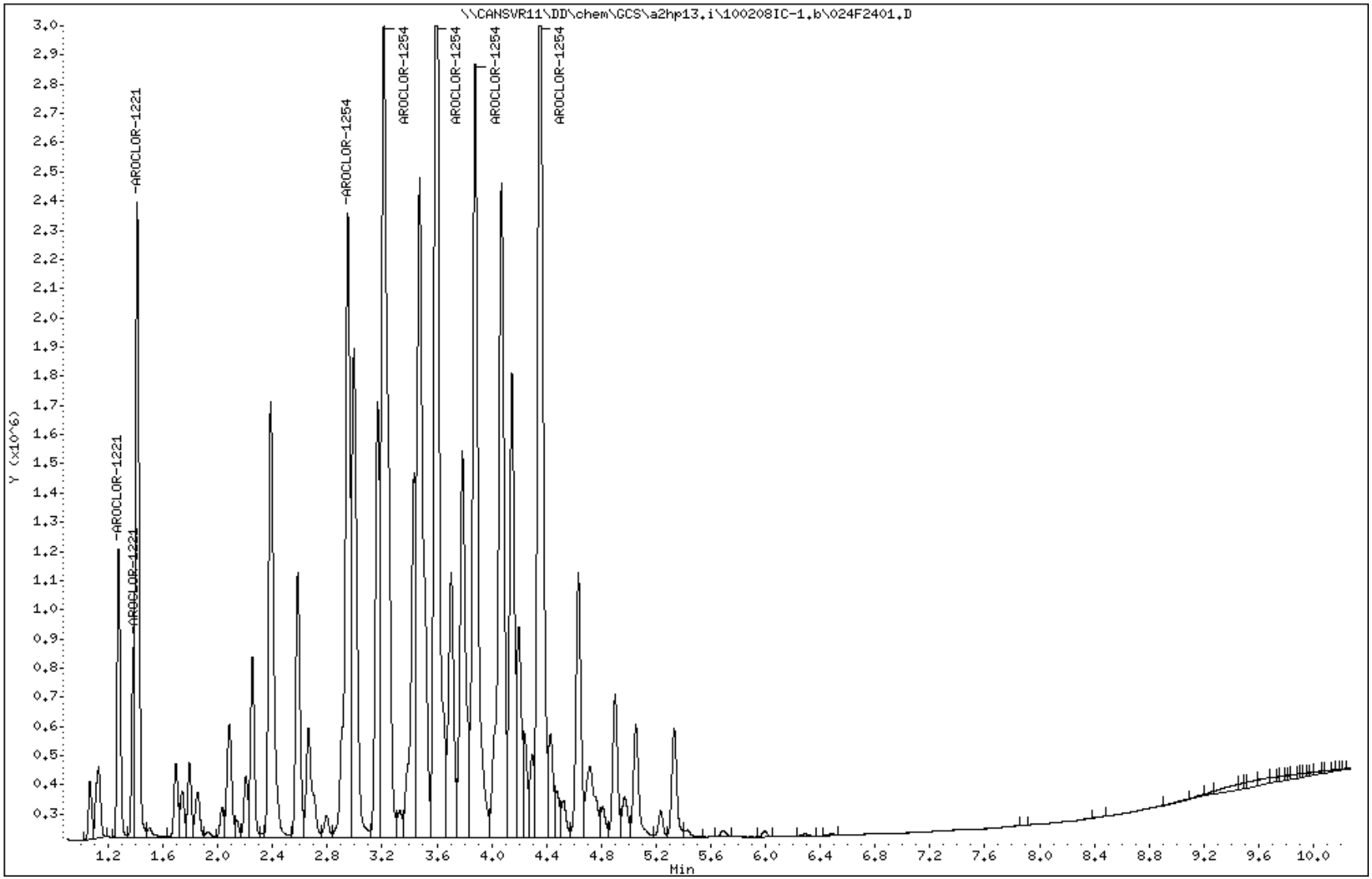
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.949	2.951	-0.002	2139507	1.00000	0.9225	75.00- 125.00	100.00
3.212	3.213	-0.001	2809567	1.00000	0.9235	98.18- 163.63	131.32
3.596	3.597	-0.001	3849058	1.00000	0.9429	132.08- 220.13	179.90
3.879	3.881	-0.002	2649791	1.00000	0.9403	89.69- 149.48	123.85
4.353	4.354	-0.001	3181404	1.00000	0.9402	107.68- 179.46	148.70
		Average of Peak Amounts =			0.93388		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.274	1.276	-0.002	989175	1.00000	0.8374	75.00- 125.00	100.00(M)
1.389	1.391	-0.002	668032	1.00000	0.8632	49.63- 82.71	67.53
1.411	1.412	-0.001	2174478	1.00000	0.8254	164.10- 273.51	219.83
		Average of Peak Amounts =			0.84200		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
Date : 08-FEB-2010 21:36
Client ID:
Sample Info: 1254,,1,5
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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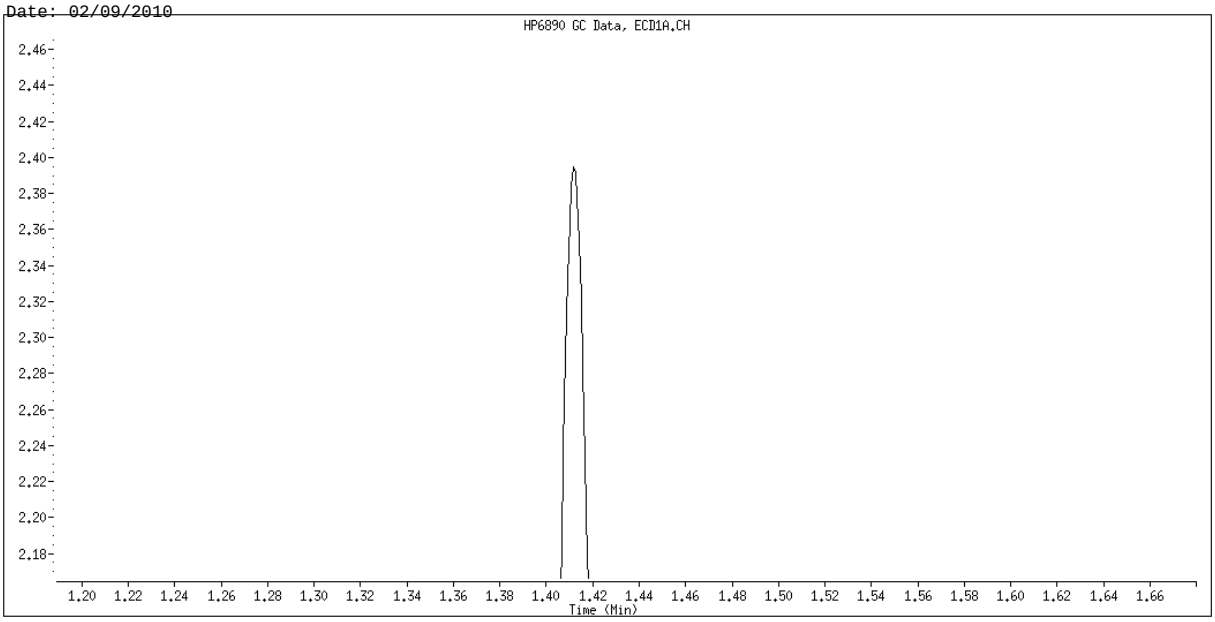
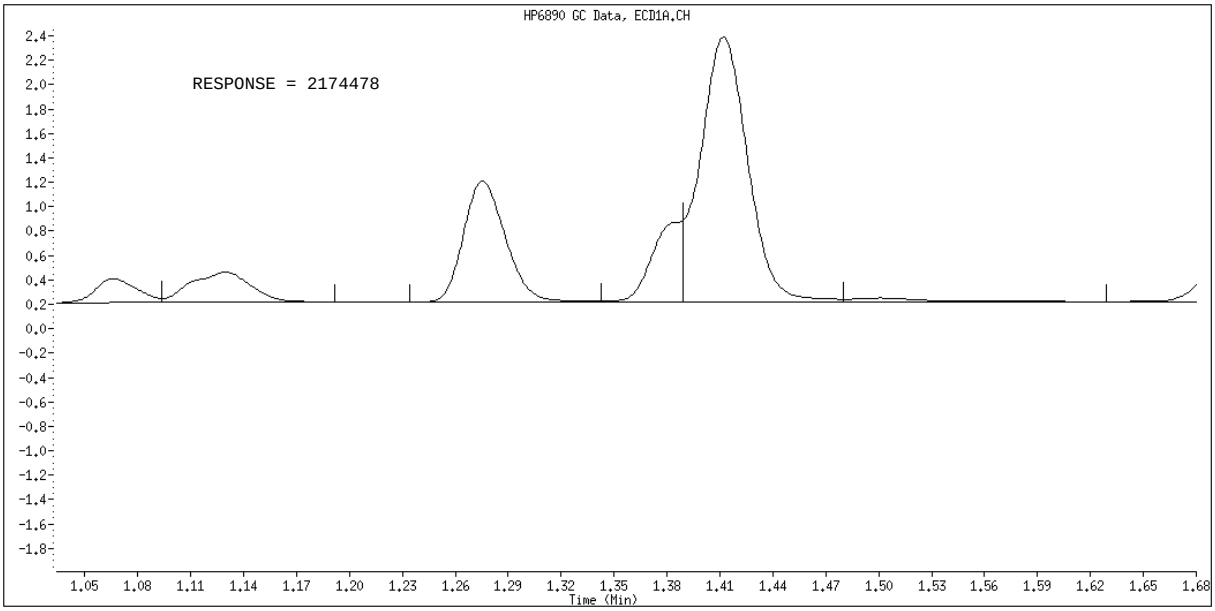
North Canton

Data File Name: 024F2401.D
Inj. Date and Time: 08-FEB-2010 21:36
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
Lab Smp Id: 1254
Inj Date : 08-FEB-2010 21:52
Operator : Inst ID: a2hp13.i
Smp Info : 1254,,1,6
Misc Info : 9-AR2154.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 25 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

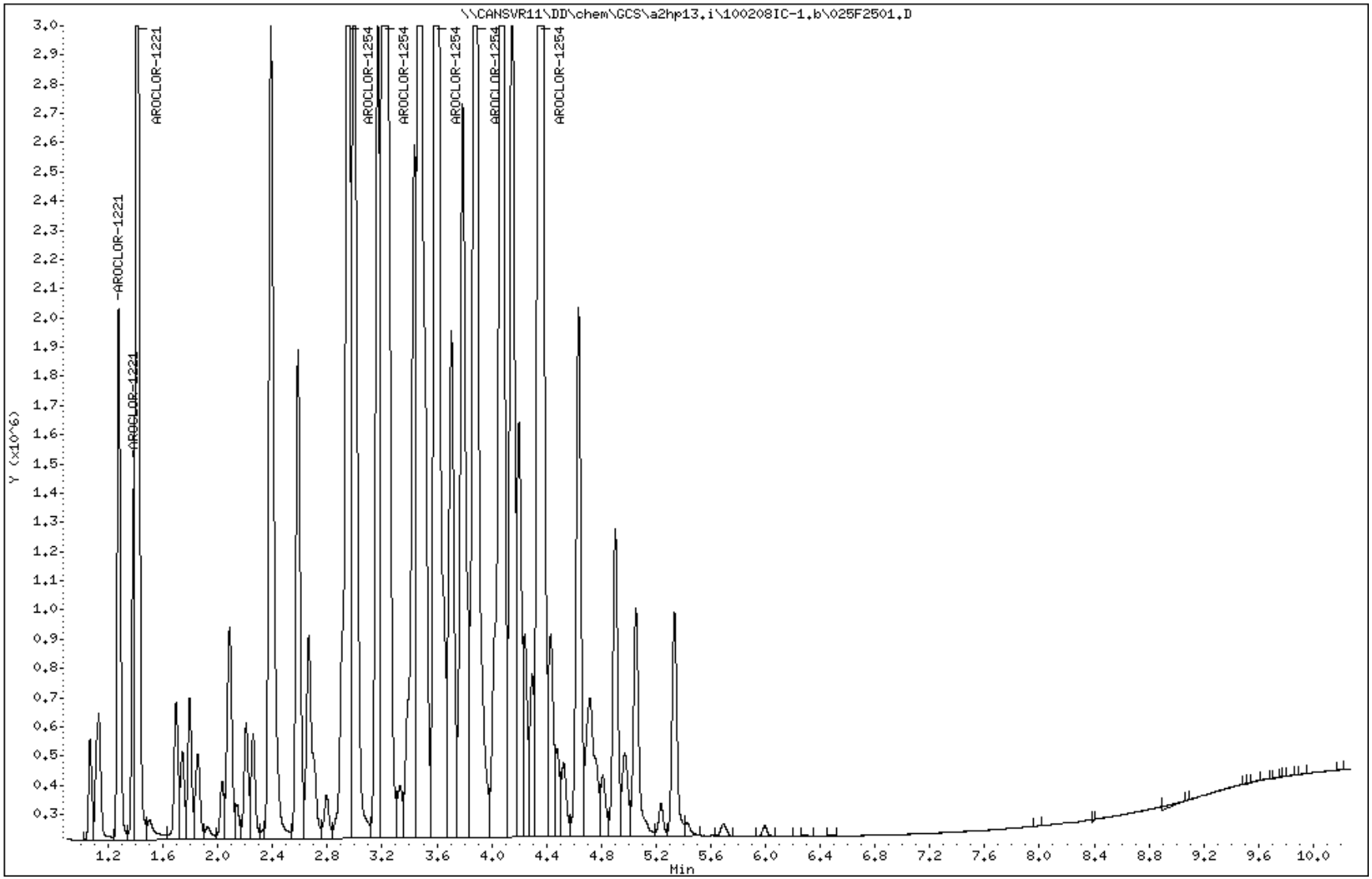
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
2.951	2.951	0.000	3993114	2.00000	1.722	75.00- 125.00	100.00
3.213	3.213	0.000	5202748	2.00000	1.710	98.18- 163.63	130.29
3.597	3.597	0.000	7349171	2.00000	1.800	132.08- 220.13	184.05
3.881	3.881	0.000	5165624	2.00000	1.833	89.69- 149.48	129.36
4.354	4.354	0.000	6173201	2.00000	1.824	107.68- 179.46	154.60
Average of Peak Amounts =					1.77780		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.276	1.276	0.000	1819592	2.00000	1.602	75.00- 125.00	100.00(M)
1.391	1.391	0.000	1279813	2.00000	1.703	49.63- 82.71	70.34
1.412	1.412	0.000	3890421	2.00000	1.544	164.10- 273.51	213.81
Average of Peak Amounts =					1.61633		

QC Flag Legend

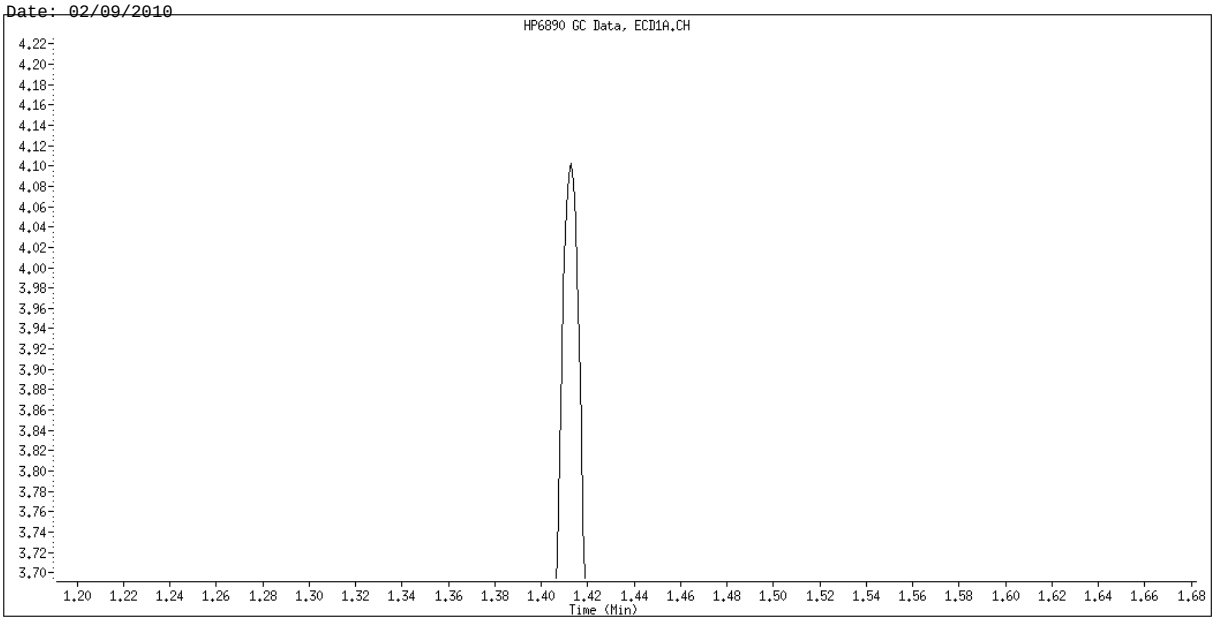
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
Date : 08-FEB-2010 21:52
Client ID:
Sample Info: 1254,,1,6

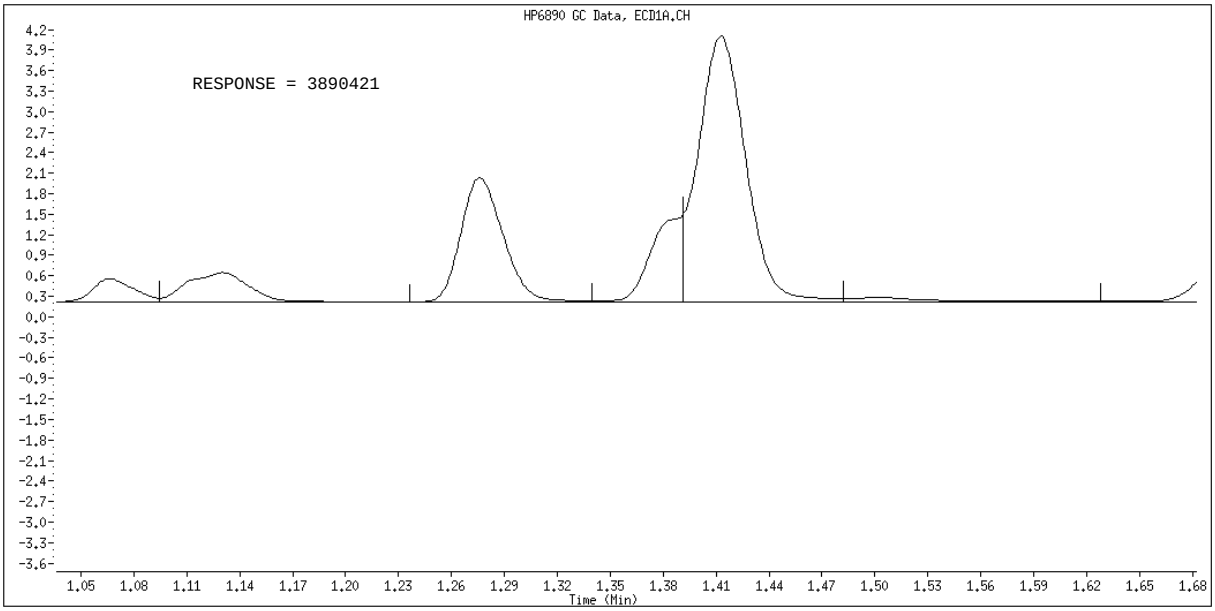
Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 025F2501.D
Inj. Date and Time: 08-FEB-2010 21:52
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica North Canton

PCB 8082/608

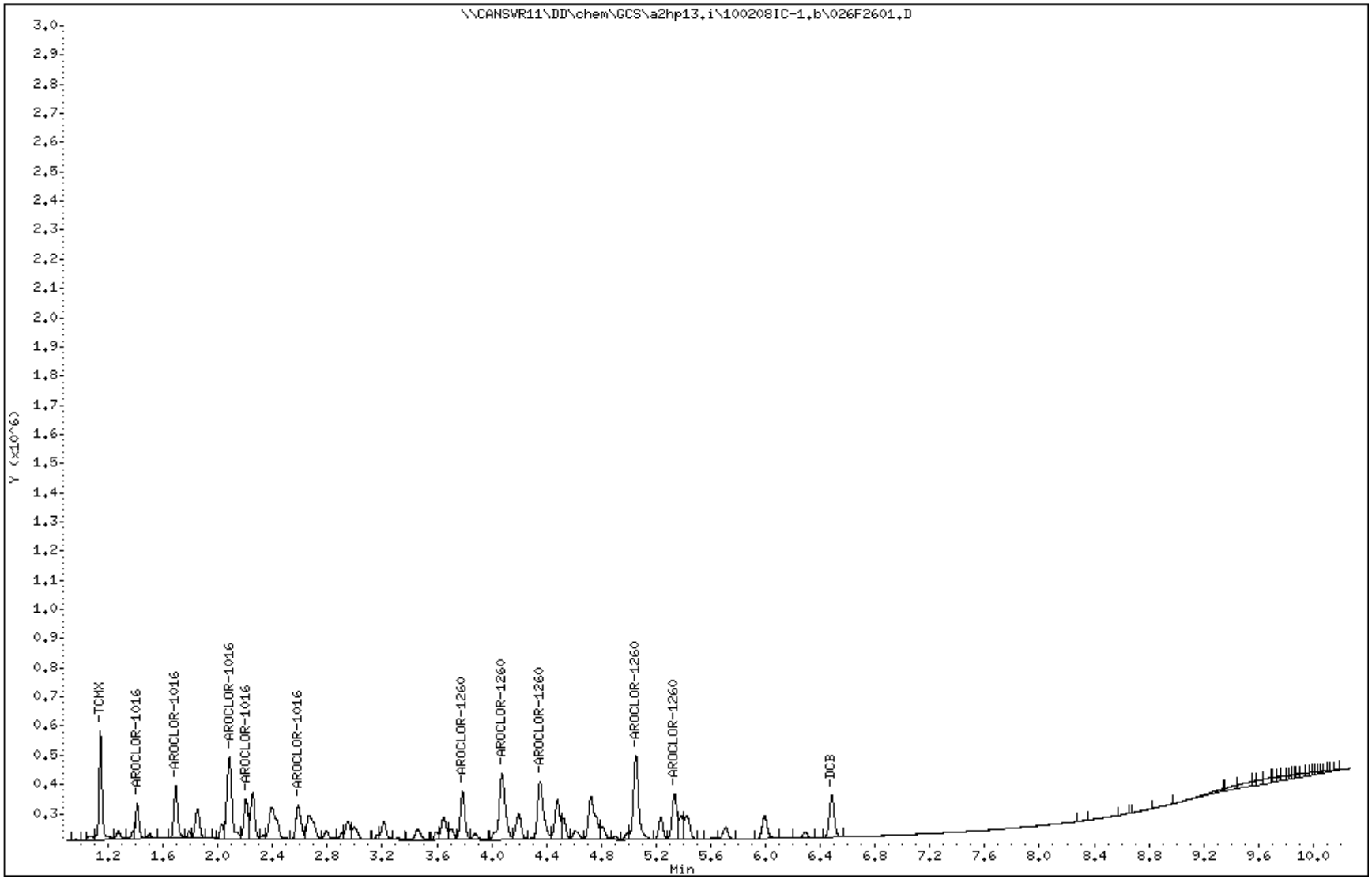
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:07
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,1
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 26 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.142	1.144	-0.002	370534	0.00250	0.002982		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.411	1.419	-0.008	205324	0.05000	0.05773	80.00- 120.00	100.00
1.692	1.703	-0.011	351930	0.05000	0.05718	118.89- 198.15	171.40
2.084	2.095	-0.011	701292	0.05000	0.05403	250.35- 417.24	341.55
2.205	2.217	-0.012	286467	0.05000	0.05379	104.90- 174.84	139.52
2.586	2.599	-0.013	286259	0.05000	0.05398	107.74- 179.57	139.42
	Average of Peak Amounts =				0.05534		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.786	3.800	-0.014	160830	0.05000	0.05328	80.00- 120.00	100.00
4.074	4.088	-0.014	223463	0.05000	0.05287	103.77- 172.95	138.94
4.353	4.366	-0.013	197363	0.05000	0.05125	95.99- 159.98	122.72
5.054	5.066	-0.012	285880	0.05000	0.04966	151.41- 252.34	177.75
5.334	5.346	-0.012	152897	0.05000	0.04986	81.94- 136.57	95.07
	Average of Peak Amounts =				0.05138		
$ 9 DCB					CAS #: 2051-24-3		
6.482	6.483	-0.001	142510	0.00250	0.002569		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
Date : 08-FEB-2010 22:07
Client ID:
Sample Info: 1660,,1,1

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:21
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,2
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 27 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	613205	0.00500	0.004936		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.419	-0.007	397550	0.10000	0.1118	80.00- 120.00	100.00(M)
1.694	1.703	-0.009	668730	0.10000	0.1086	118.89- 198.15	168.21
2.085	2.095	-0.010	1381552	0.10000	0.1064	250.35- 417.24	347.52
2.206	2.217	-0.011	545991	0.10000	0.1025	104.90- 174.84	137.34
2.586	2.599	-0.013	557809	0.10000	0.1052	107.74- 179.57	140.31
	Average of Peak Amounts =				0.10690		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.800	-0.013	331496	0.10000	0.1098	80.00- 120.00	100.00
4.075	4.088	-0.013	463528	0.10000	0.1097	103.77- 172.95	139.83
4.353	4.366	-0.013	419169	0.10000	0.1088	95.99- 159.98	126.45
5.053	5.066	-0.013	618323	0.10000	0.1074	151.41- 252.34	186.53
5.335	5.346	-0.011	334119	0.10000	0.1090	81.94- 136.57	100.79
	Average of Peak Amounts =				0.10894		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	310216	0.00500	0.005592		

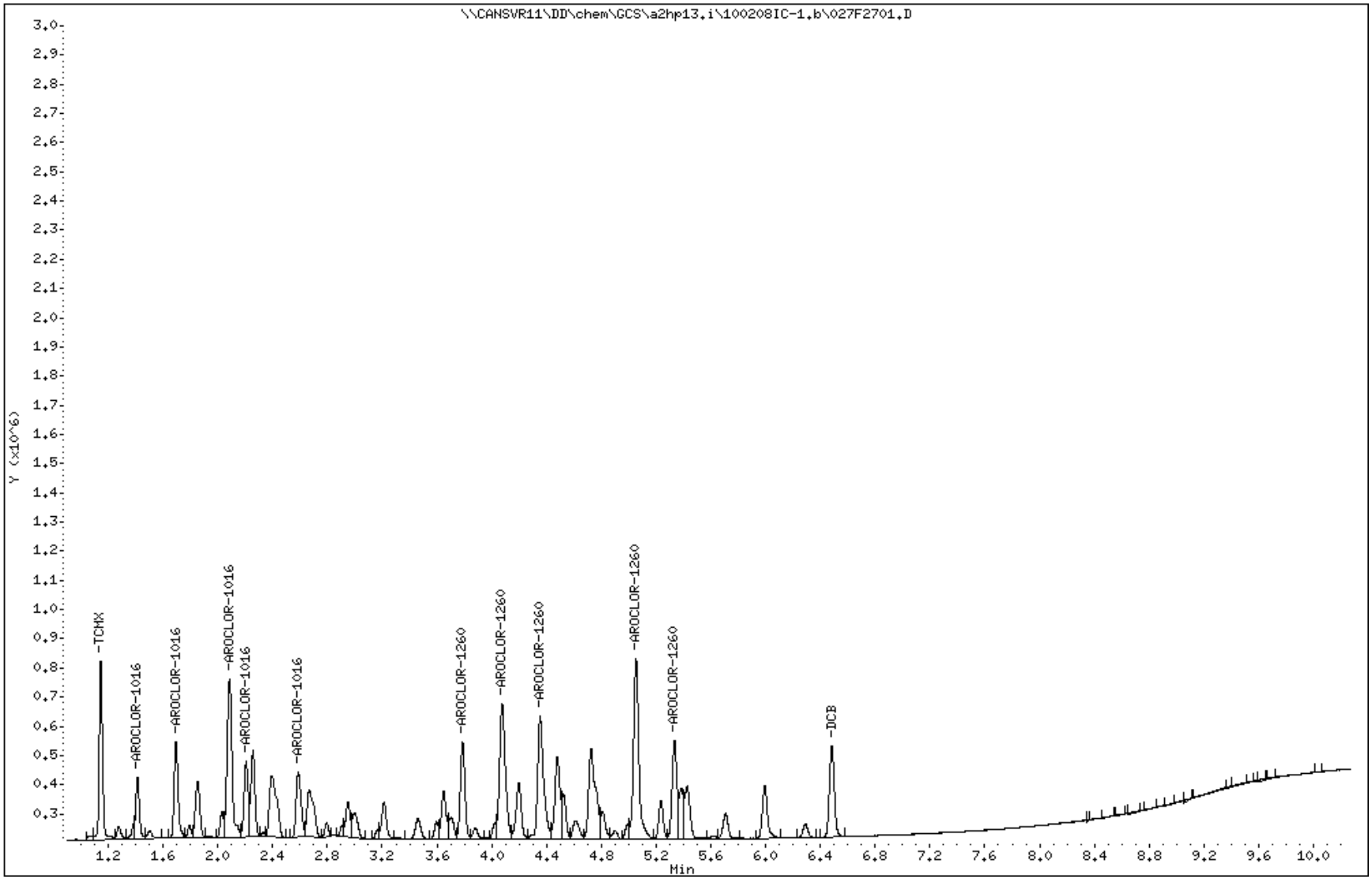
QC Flag Legend

M - Compound response manually integrated.

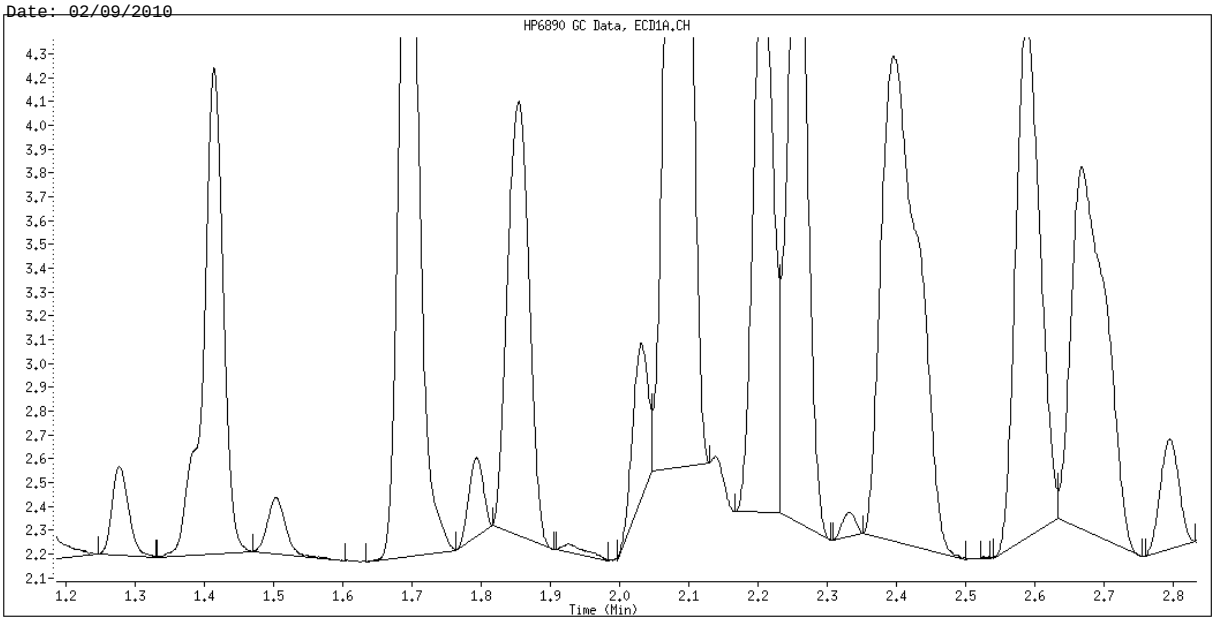
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
Date : 08-FEB-2010 22:21
Client ID:
Sample Info: 1660,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

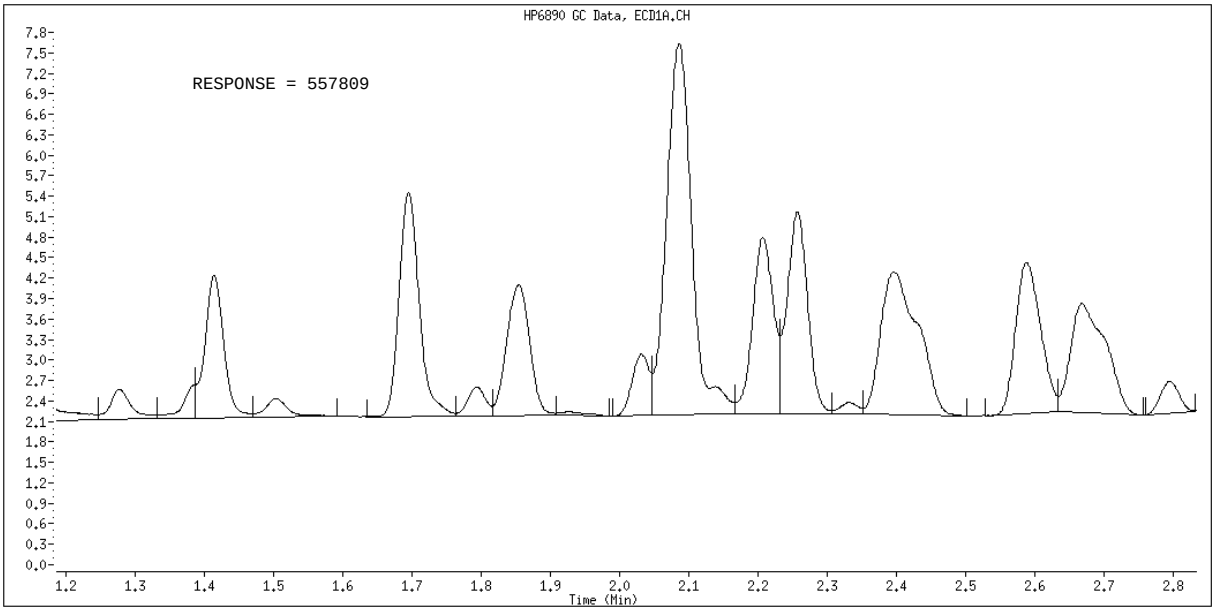
Column phase: restek pest clpI



Data File Name: 027F2701.D
Inj. Date and Time: 08-FEB-2010 22:21
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:36
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,3
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 28 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

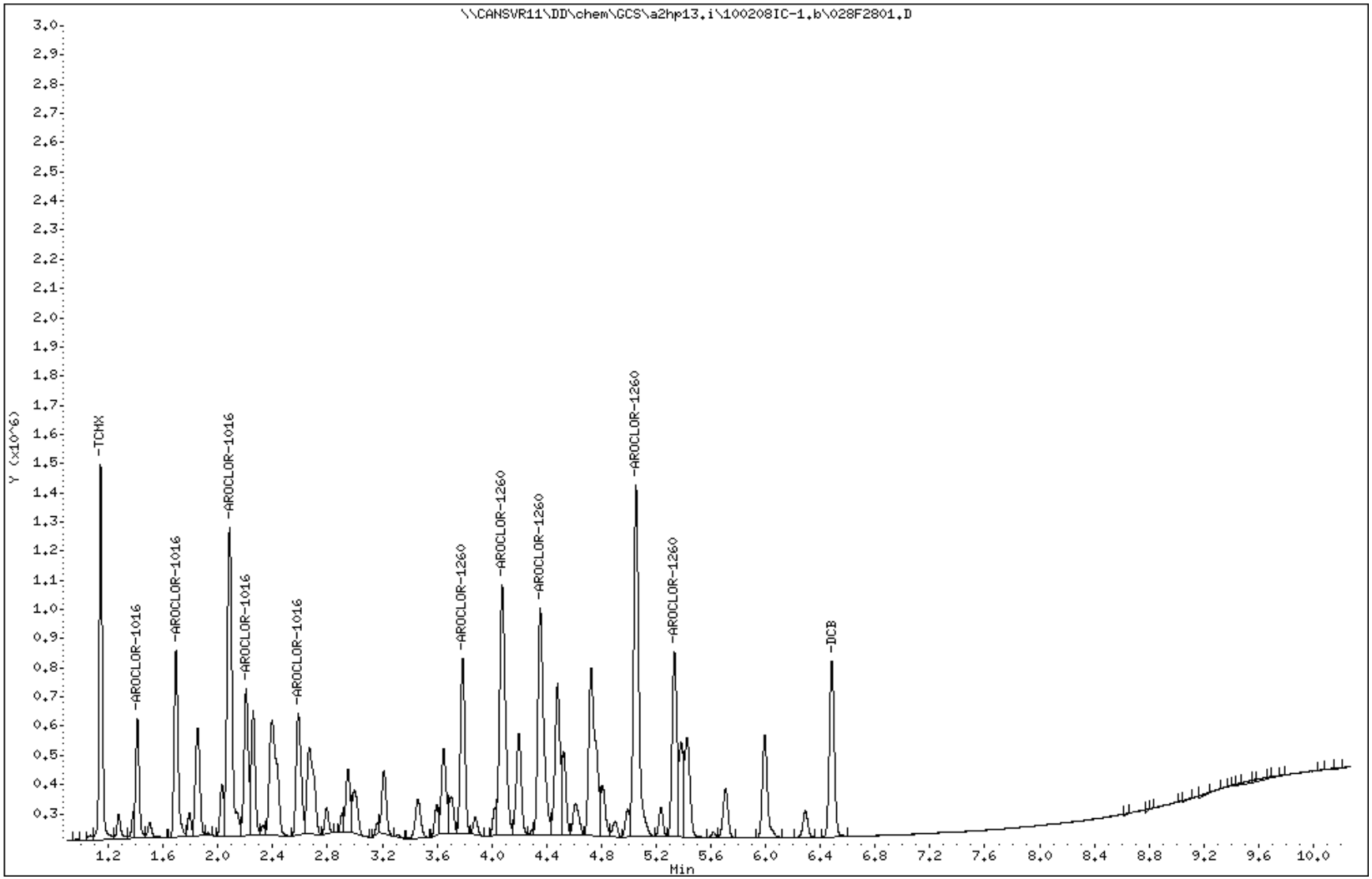
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.143	1.144	-0.001	1286875	0.01000	0.01036		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.413	-0.001	745574	0.20000	0.2006	80.00- 120.00	100.00(M)
1.693	1.694	-0.001	1276893	0.20000	0.2075	143.75- 239.59	171.26
2.085	2.086	-0.001	2694003	0.20000	0.2076	299.95- 499.92	361.33
2.205	2.207	-0.002	1090459	0.20000	0.2047	122.54- 204.23	146.26
2.586	2.588	-0.002	1052194	0.20000	0.1984	130.89- 218.15	141.13
		Average of Peak Amounts =			0.20376		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.789	-0.002	602812	0.20000	0.1997	80.00- 120.00	100.00
4.075	4.077	-0.002	853453	0.20000	0.2019	105.37- 175.62	141.58
4.353	4.355	-0.002	777892	0.20000	0.2020	97.55- 162.58	129.04
5.054	5.054	0.000	1201658	0.20000	0.2087	154.28- 257.13	199.34
5.333	5.336	-0.003	635642	0.20000	0.2073	84.36- 140.61	105.45
		Average of Peak Amounts =			0.20392		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	600816	0.01000	0.01083		

QC Flag Legend

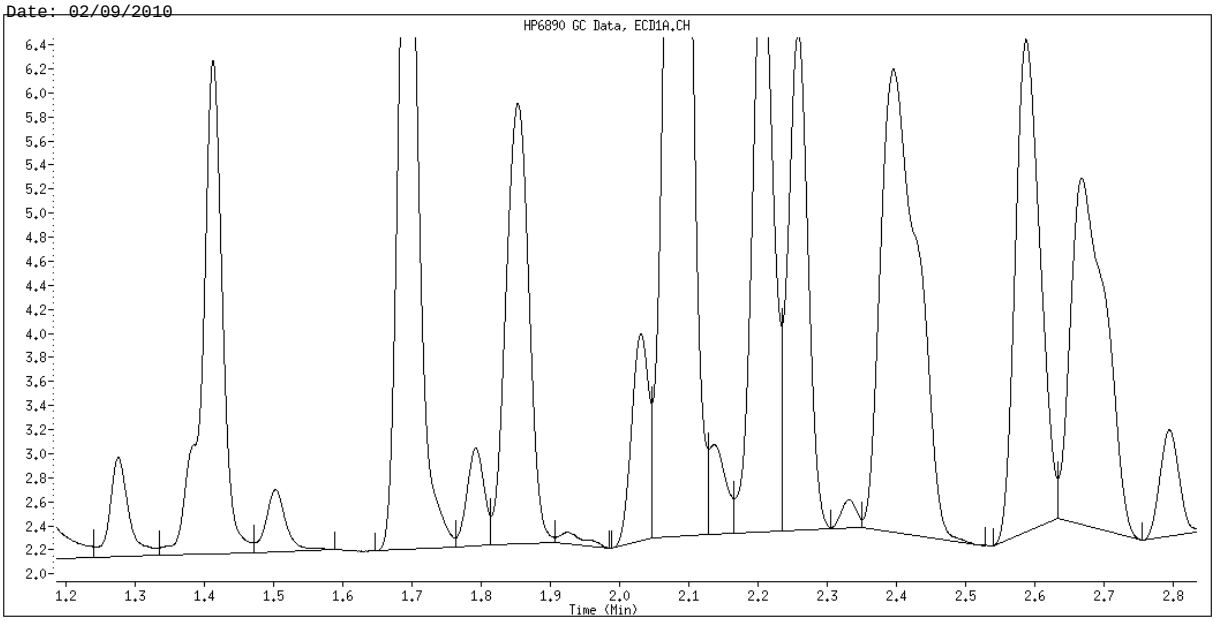
M - Compound response manually integrated.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
Date : 08-FEB-2010 22:36
Client ID:
Sample Info: 1660,,1,3
Column phase: restek pest clpI

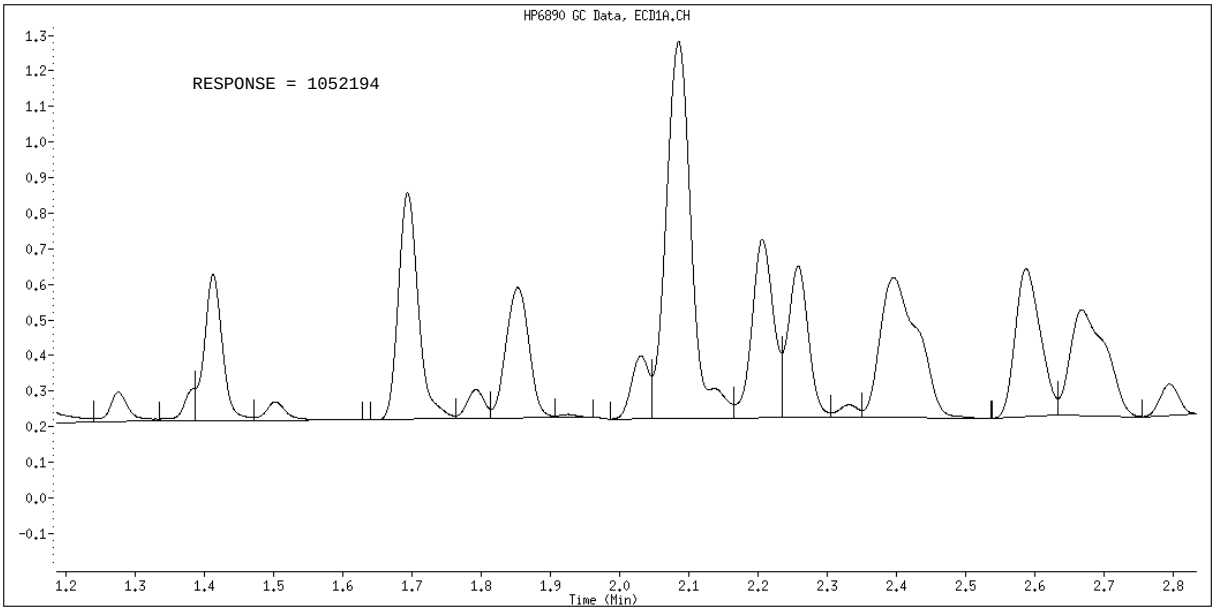
Instrument: a2hp13.i
Operator:
Column diameter: 0.53



Data File Name: 028F2801.D
Inj. Date and Time: 08-FEB-2010 22:36
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

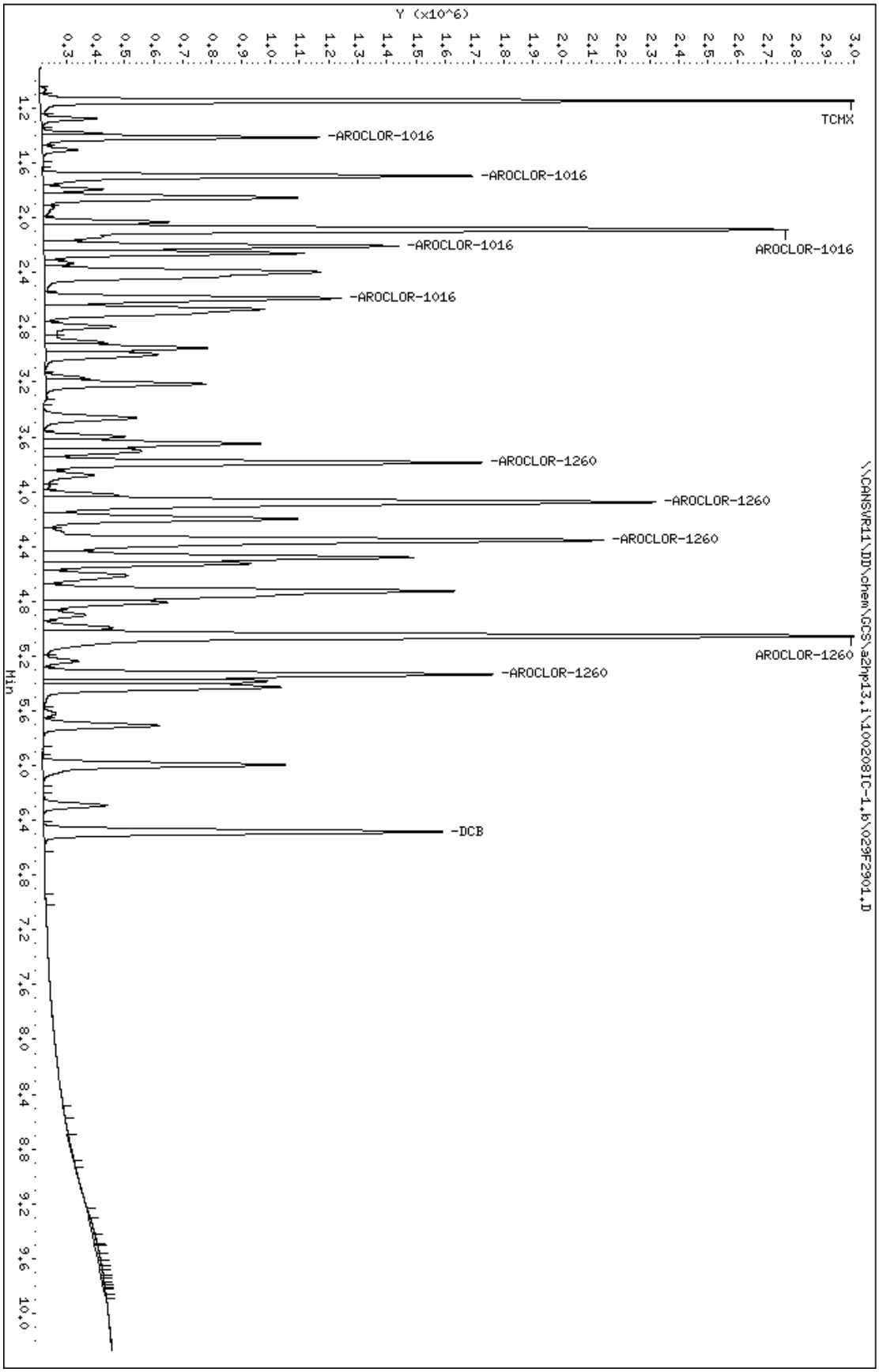
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 22:52
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,4
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 29 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

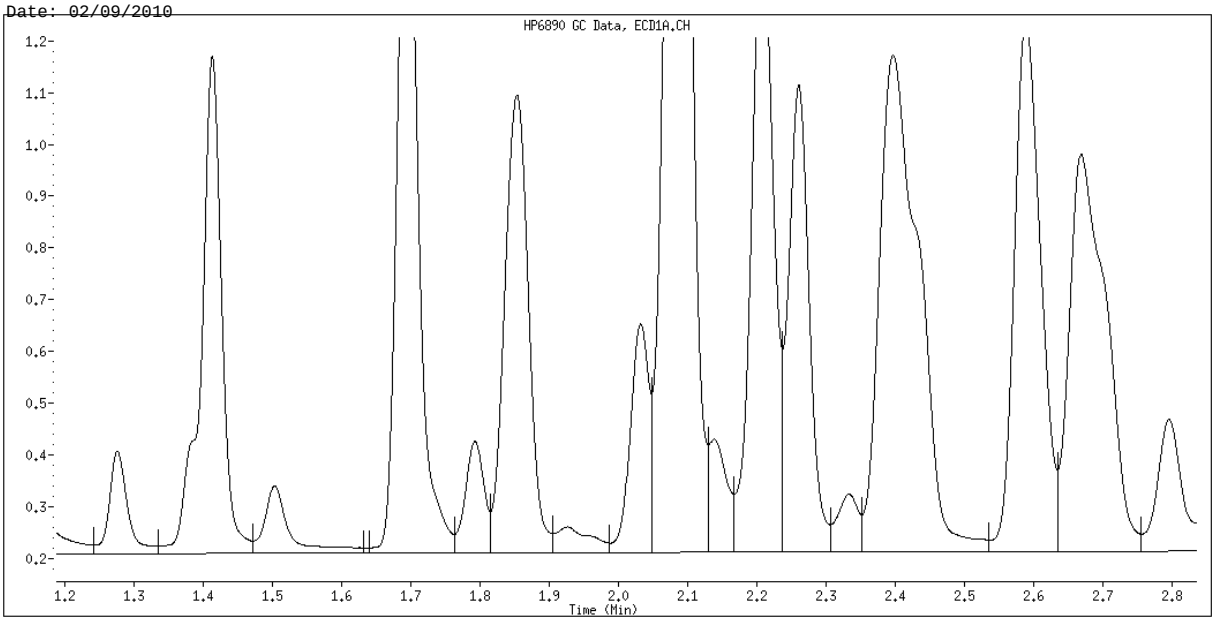
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	2946075	0.02500	0.02371		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.413	1.419	-0.006	1704759	0.50000	0.4793	80.00- 120.00	100.00(M)
1.694	1.703	-0.009	3000570	0.50000	0.4875	118.89- 198.15	176.01
2.085	2.095	-0.010	6536061	0.50000	0.5036	250.35- 417.24	383.40
2.206	2.217	-0.011	2666709	0.50000	0.5007	104.90- 174.84	156.43
2.588	2.599	-0.011	2633951	0.50000	0.4966	107.74- 179.57	154.51
	Average of Peak Amounts =				0.49354		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.789	3.800	-0.011	1504383	0.50000	0.4984	80.00- 120.00	100.00
4.076	4.088	-0.012	2098213	0.50000	0.4964	103.77- 172.95	139.47
4.354	4.366	-0.012	1920999	0.50000	0.4988	95.99- 159.98	127.69
5.054	5.066	-0.012	2920852	0.50000	0.5073	151.41- 252.34	194.16
5.335	5.346	-0.011	1541704	0.50000	0.5028	81.94- 136.57	102.48
	Average of Peak Amounts =				0.50074		
$ 9 DCB					CAS #: 2051-24-3		
6.484	6.483	0.001	1365386	0.02500	0.02461		

QC Flag Legend

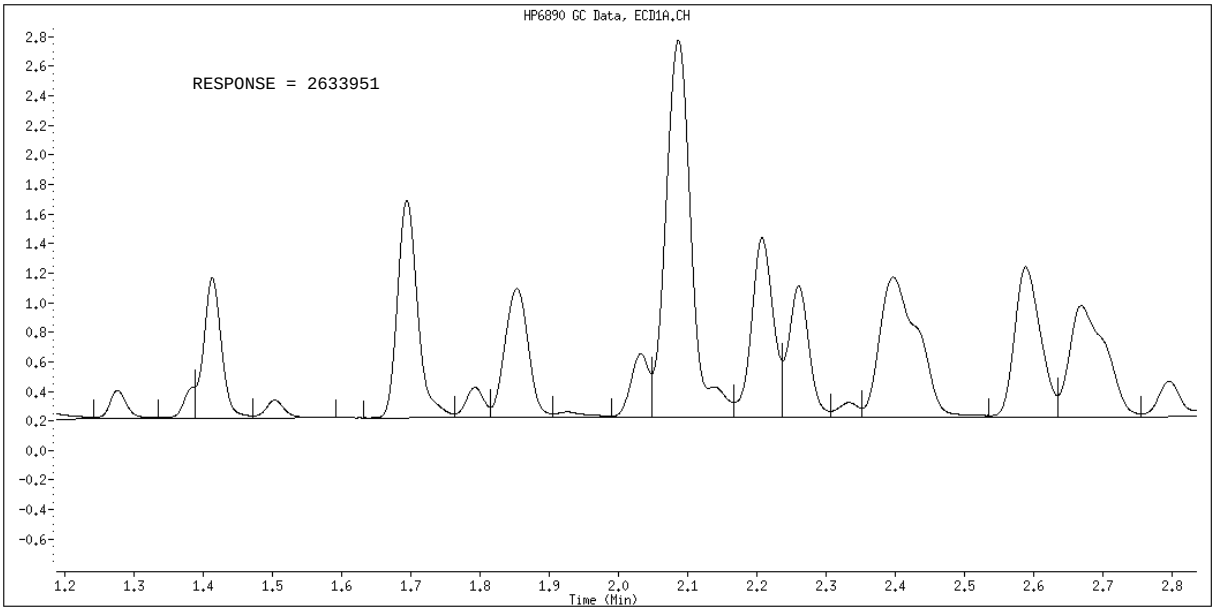
M - Compound response manually integrated.


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
Date : 08-FEB-2010 22:52
Client ID:
Sample Info: 1660,,1.4
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
Min
TCMX
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1260
-AROCLOR-1260
-AROCLOR-1260
AROCLOR-1260
-AROCLOR-1260
-DCB
\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D

Data File Name: 029F2901.D
Inj. Date and Time: 08-FEB-2010 22:52
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

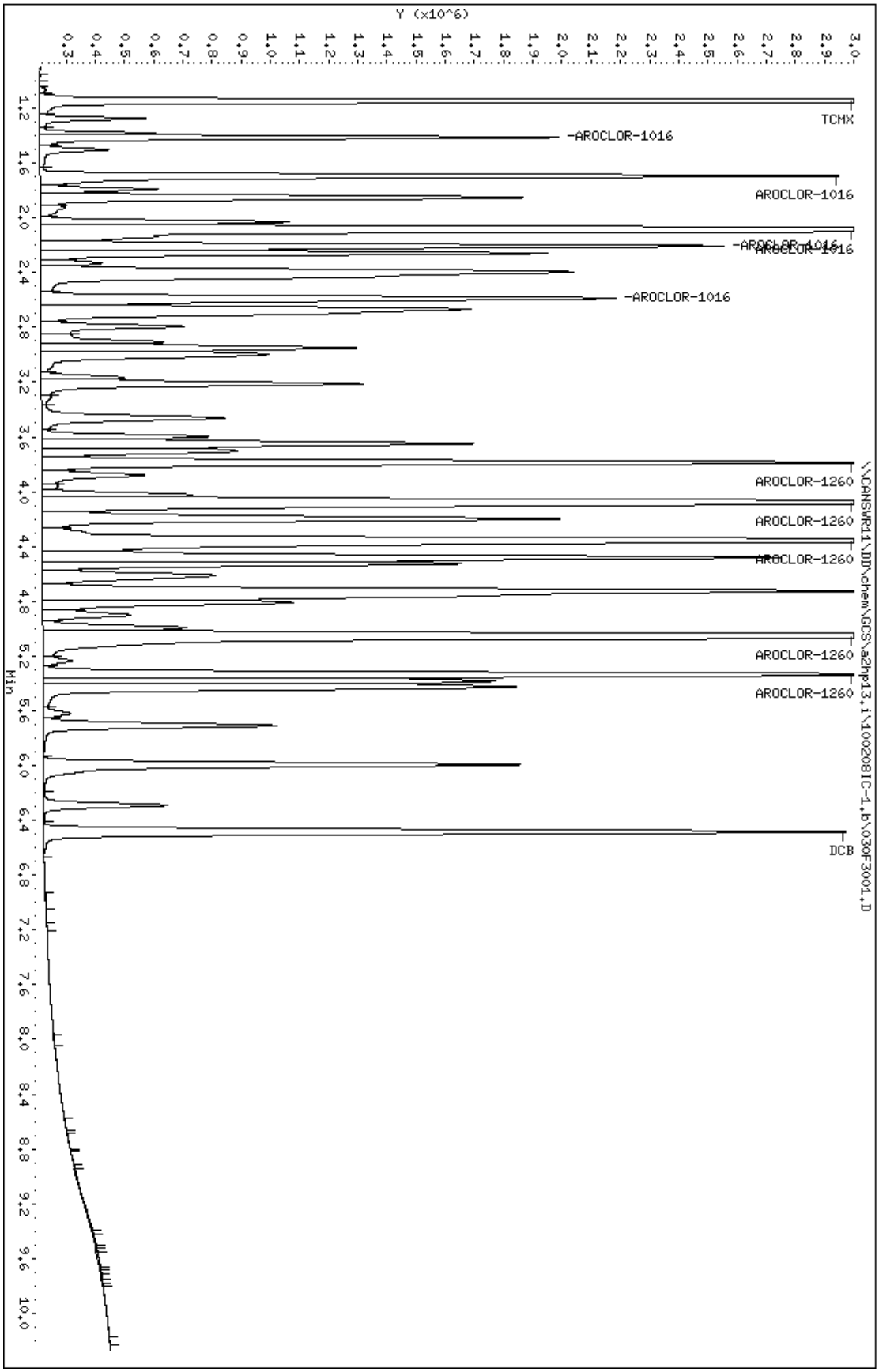
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 23:07
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,5
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 30 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

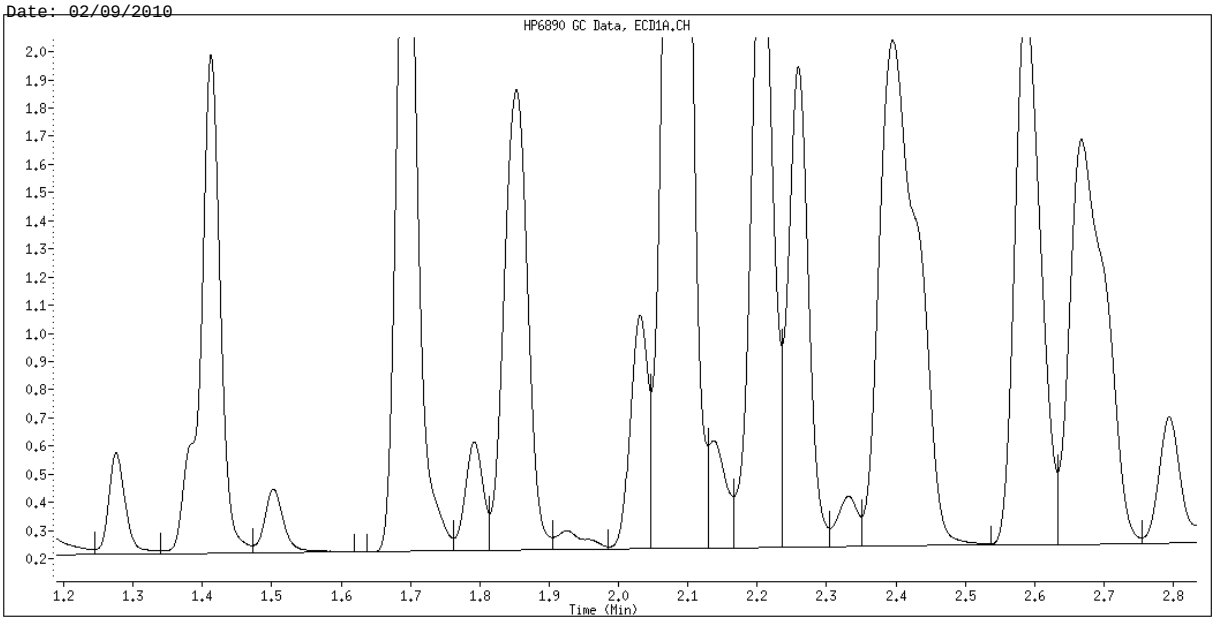
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.144	1.144	0.000	5775199	0.05000	0.04649		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.412	1.413	-0.001	3191408	1.00000	0.8973	80.00- 120.00	100.00(M)
1.693	1.694	-0.001	5678041	1.00000	0.9226	143.75- 239.59	177.92
2.084	2.086	-0.002	12630703	1.00000	0.9732	299.95- 499.92	395.77
2.206	2.207	-0.001	5176357	1.00000	0.9719	122.54- 204.23	162.20
2.588	2.588	0.000	5179034	1.00000	0.9765	130.89- 218.15	162.28
	Average of Peak Amounts =				0.94830		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.788	3.789	-0.001	2930328	1.00000	0.9708	80.00- 120.00	100.00
4.075	4.077	-0.002	4152767	1.00000	0.9826	105.37- 175.62	141.72
4.354	4.355	-0.001	3851293	1.00000	1.000	97.55- 162.58	131.43
5.054	5.054	0.000	5808119	1.00000	1.009	154.28- 257.13	198.21
5.334	5.336	-0.002	3085732	1.00000	1.006	84.36- 140.61	105.30
	Average of Peak Amounts =				0.99368		
$ 9 DCB					CAS #: 2051-24-3		
6.483	6.483	0.000	2748454	0.05000	0.04955		

QC Flag Legend

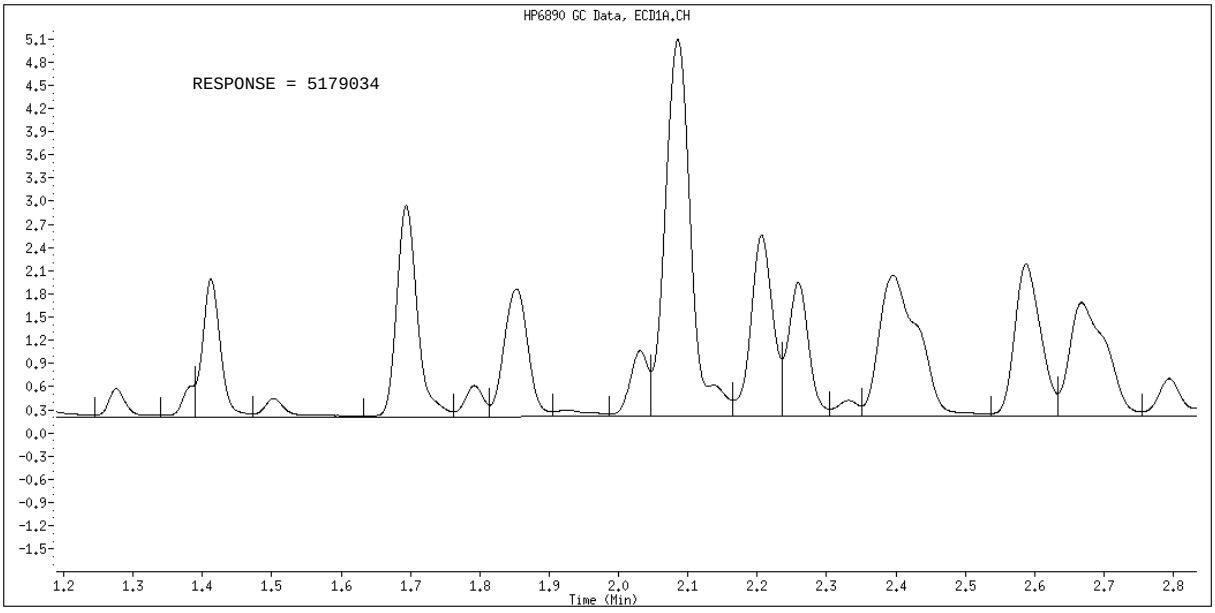
M - Compound response manually integrated.


Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
Date : 08-FEB-2010 23:07
Client ID:
Sample Info: 1660,,1.5
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
Min
TCMX
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
AROCLOR-1260
DCB
\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D

Data File Name: 030F3001.D
Inj. Date and Time: 08-FEB-2010 23:07
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 02/09/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Split Peak

TestAmerica North Canton

PCB 8082/608

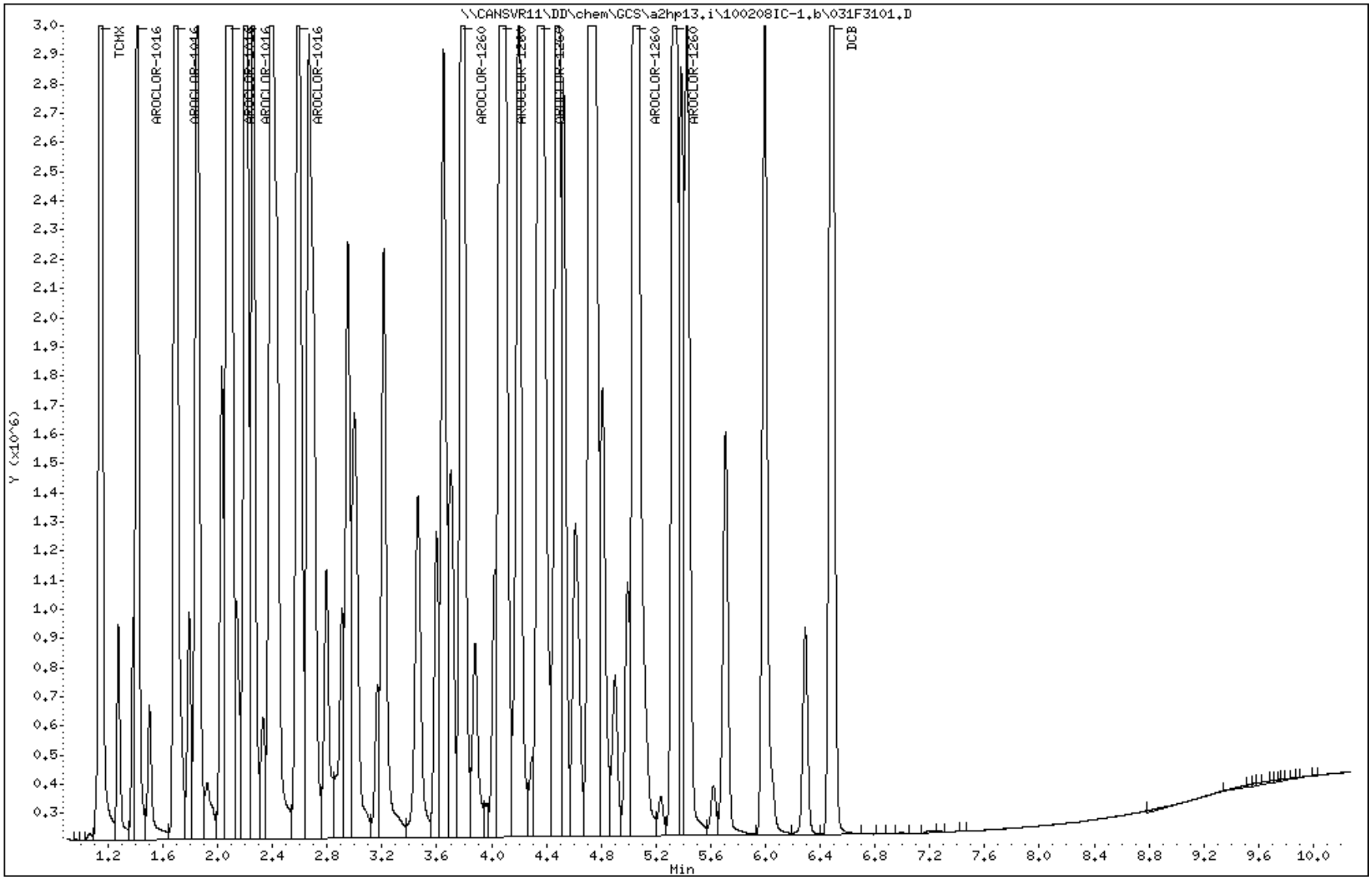
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
Lab Smp Id: 1660
Inj Date : 08-FEB-2010 23:21
Operator : Inst ID: a2hp13.i
Smp Info : 1660,,1,6
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 31 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.143	1.144	-0.001	11251198	0.10000	0.09056		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.411	1.419	-0.008	5856334	2.00000	1.647	80.00- 120.00	100.00
1.692	1.703	-0.011	10274046	2.00000	1.669	118.89- 198.15	175.43
2.084	2.095	-0.011	21717964	2.00000	1.673	250.35- 417.24	370.85
2.204	2.217	-0.013	9608926	2.00000	1.804	104.90- 174.84	164.08
2.586	2.599	-0.013	9619560	2.00000	1.814	107.74- 179.57	164.26
	Average of Peak Amounts =				1.72140		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.787	3.800	-0.013	5250564	2.00000	1.740	80.00- 120.00	100.00
4.075	4.088	-0.013	7275828	2.00000	1.721	103.77- 172.95	138.57
4.353	4.366	-0.013	6766760	2.00000	1.757	95.99- 159.98	128.88
5.054	5.066	-0.012	9969924	2.00000	1.732	151.41- 252.34	189.88
5.334	5.346	-0.012	5304446	2.00000	1.730	81.94- 136.57	101.03
	Average of Peak Amounts =				1.73600		
$ 9 DCB					CAS #: 2051-24-3		
6.484	6.483	0.001	4411722	0.10000	0.07953		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
Date : 08-FEB-2010 23:21
Client ID:
Sample Info: 1660,,1,6

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



TestAmerica North Canton

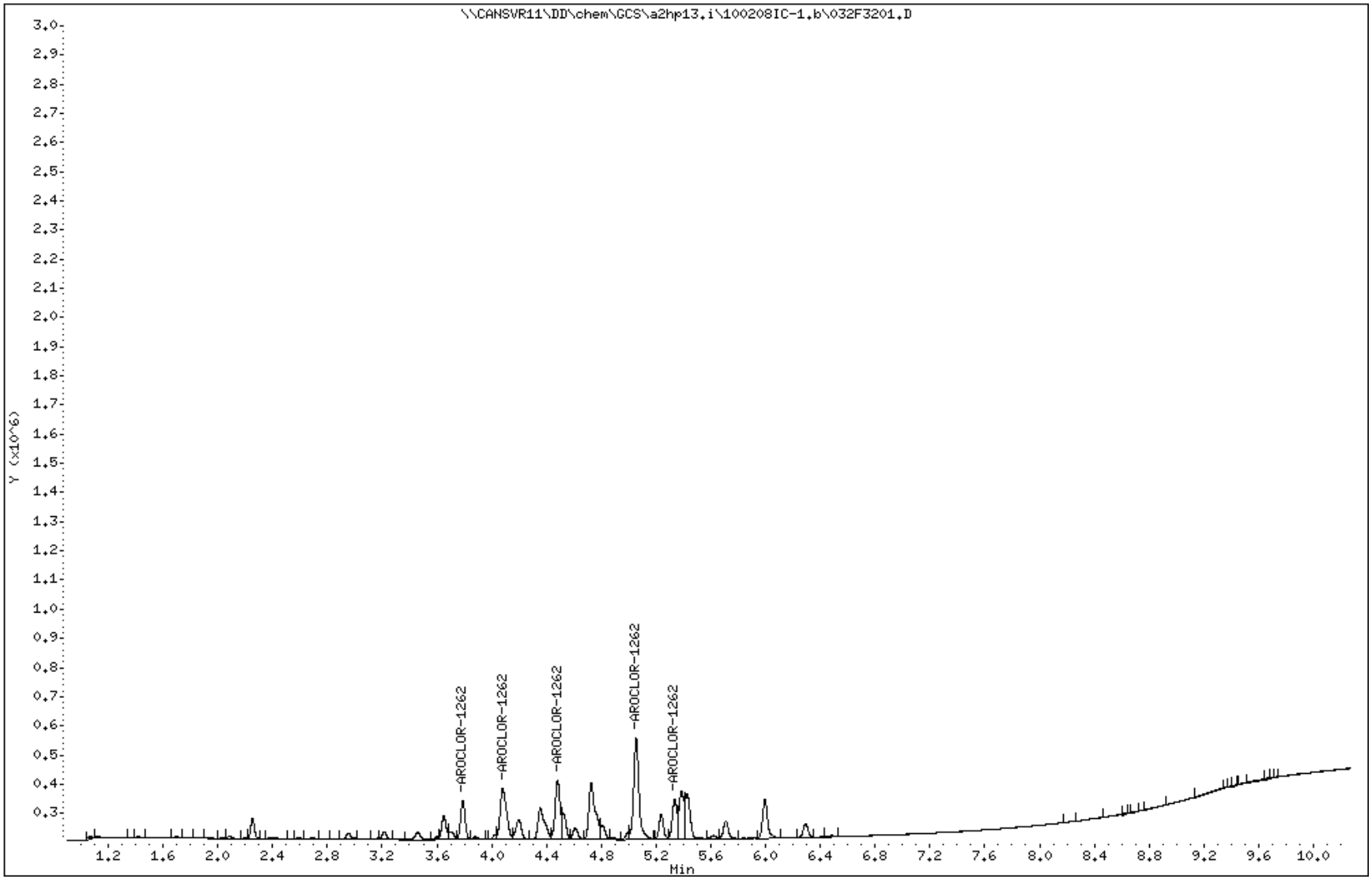
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
Lab Smp Id: 1262
Inj Date : 08-FEB-2010 23:37
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,1
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 32 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	132259	0.05000	0.05626	75.00- 125.00	100.00
4.078	4.079	-0.001	175323	0.05000	0.05636	98.90- 164.83	132.56
4.481	4.481	0.000	203044	0.05000	0.05590	115.68- 192.80	153.52
5.054	5.054	0.000	344431	0.05000	0.05392	208.14- 346.90	260.42
5.335	5.336	-0.001	135634	0.05000	0.05585	78.27- 130.46	102.55
		Average of Peak Amounts =			0.05566		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
Date : 08-FEB-2010 23:37
Client ID:
Sample Info: 1262,,1,1

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica North Canton

PCB 8082/608

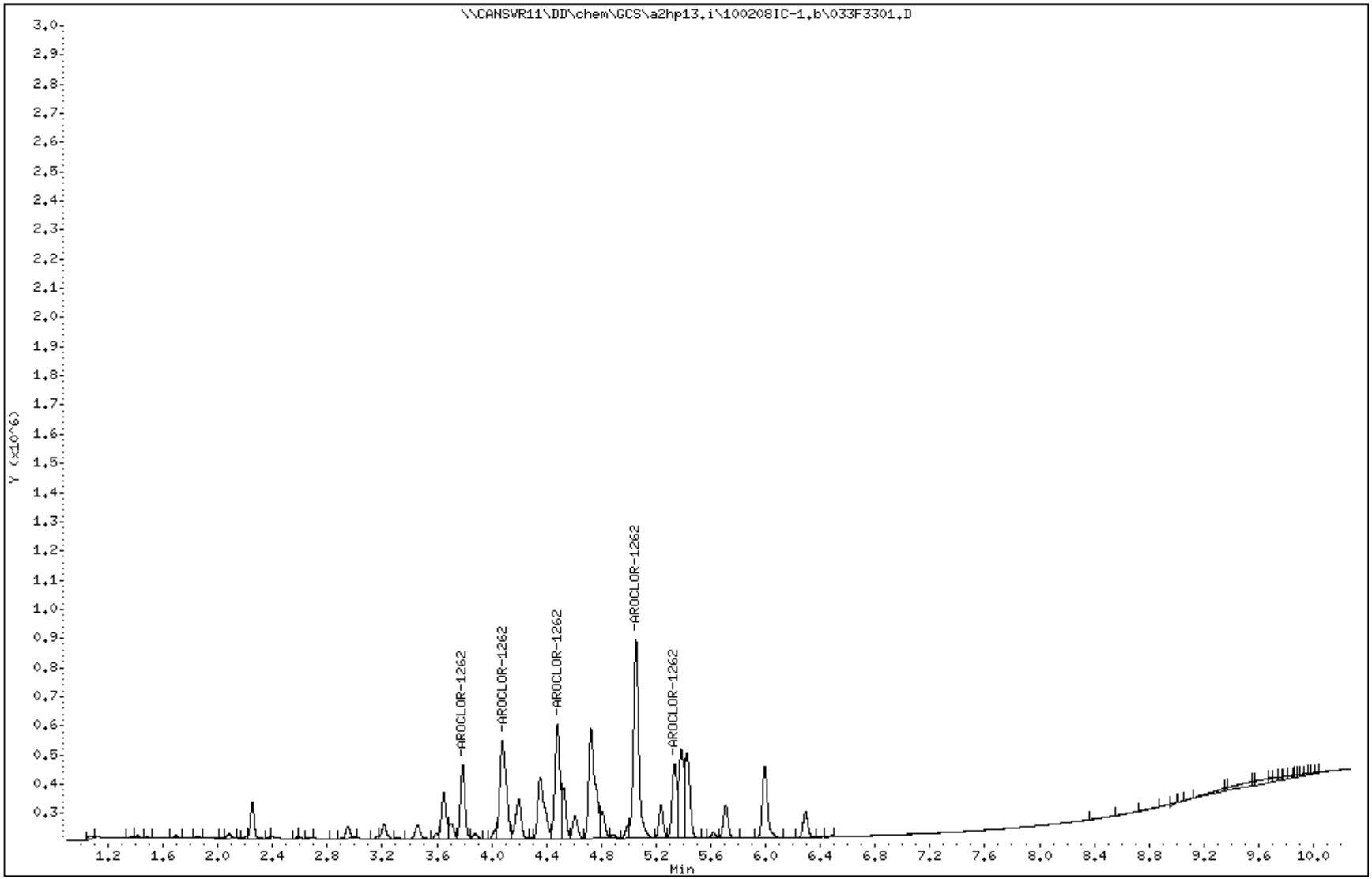
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
Lab Smp Id: 1262
Inj Date : 08-FEB-2010 23:52
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,2
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:53 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 33 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.787	3.788	-0.001	254625	0.10000	0.1083	75.00- 125.00	100.00
4.078	4.079	-0.001	336788	0.10000	0.1083	98.90- 164.83	132.27
4.479	4.481	-0.002	391610	0.10000	0.1078	115.68- 192.80	153.80
5.053	5.054	-0.001	680132	0.10000	0.1065	208.14- 346.90	267.11
5.334	5.336	-0.002	253522	0.10000	0.1044	78.27- 130.46	99.57
		Average of Peak Amounts =			0.10706		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
Date : 08-FEB-2010 23:52
Client ID:
Sample Info: 1262,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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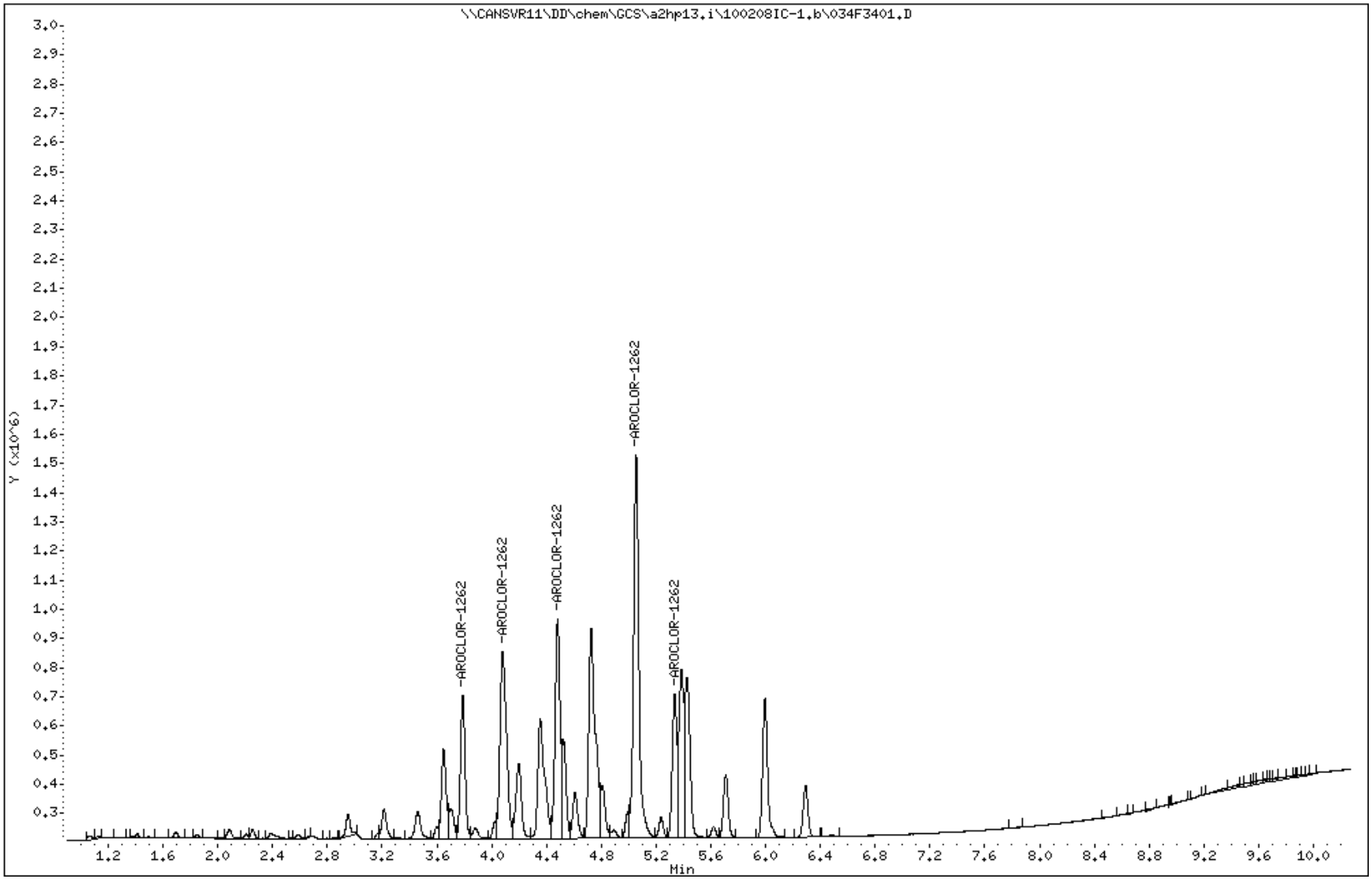
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:06
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,3
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 34 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	491305	0.20000	0.2090	75.00- 125.00	100.00
4.078	4.079	-0.001	639653	0.20000	0.2056	98.90- 164.83	130.19
4.480	4.481	-0.001	750581	0.20000	0.2066	115.68- 192.80	152.77
5.054	5.054	0.000	1313826	0.20000	0.2057	208.14- 346.90	267.42
5.336	5.336	0.000	490755	0.20000	0.2021	78.27- 130.46	99.89
		Average of Peak Amounts =			0.20580		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
Date : 09-FEB-2010 00:06
Client ID:
Sample Info: 1262,,1,3
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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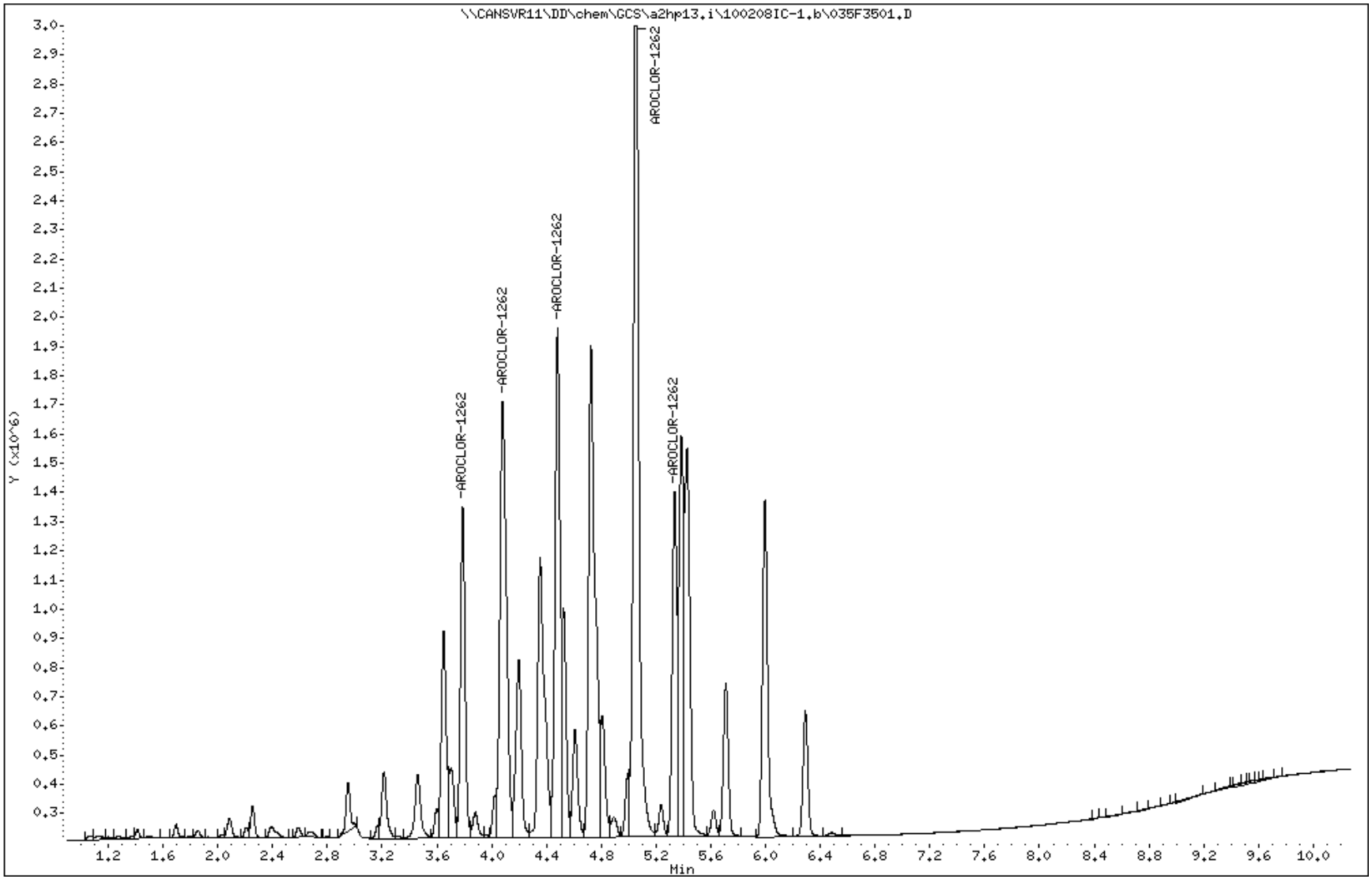
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:21
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,4
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 35 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	1133774	0.50000	0.4823	75.00- 125.00	100.00
4.078	4.079	-0.001	1495007	0.50000	0.4806	98.90- 164.83	131.86
4.480	4.481	-0.001	1748690	0.50000	0.4814	115.68- 192.80	154.24
5.053	5.054	-0.001	3146486	0.50000	0.4926	208.14- 346.90	277.52
5.335	5.336	-0.001	1183261	0.50000	0.4872	78.27- 130.46	104.36
		Average of Peak Amounts =			0.48482		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
Date : 09-FEB-2010 00:21
Client ID:
Sample Info: 1262,,1,4

Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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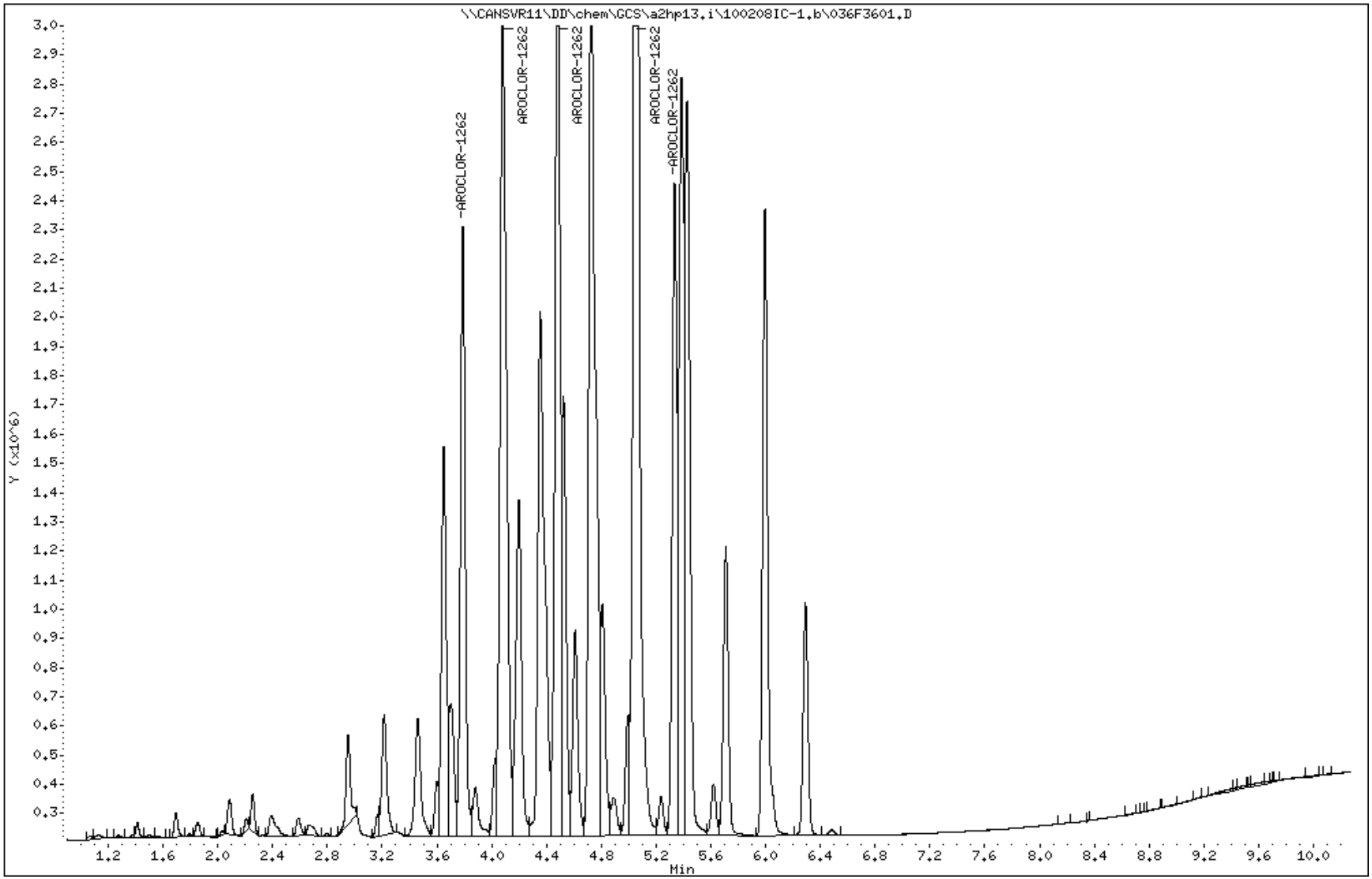
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:36
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,5
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 36 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	2088075	1.00000	0.8882	75.00- 125.00	100.00
4.079	4.079	0.000	2796289	1.00000	0.8989	98.90- 164.83	133.92
4.481	4.481	0.000	3287716	1.00000	0.9052	115.68- 192.80	157.45
5.054	5.054	0.000	5871569	1.00000	0.9192	208.14- 346.90	281.20
5.335	5.336	-0.001	2235996	1.00000	0.9207	78.27- 130.46	107.08
		Average of Peak Amounts =			0.90644		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
Date : 09-FEB-2010 00:36
Client ID:
Sample Info: 1262,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
Lab Smp Id: 1262
Inj Date : 09-FEB-2010 00:51
Operator : Inst ID: a2hp13.i
Smp Info : 1262,,1,6
Misc Info : 13-AR1262.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 37 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

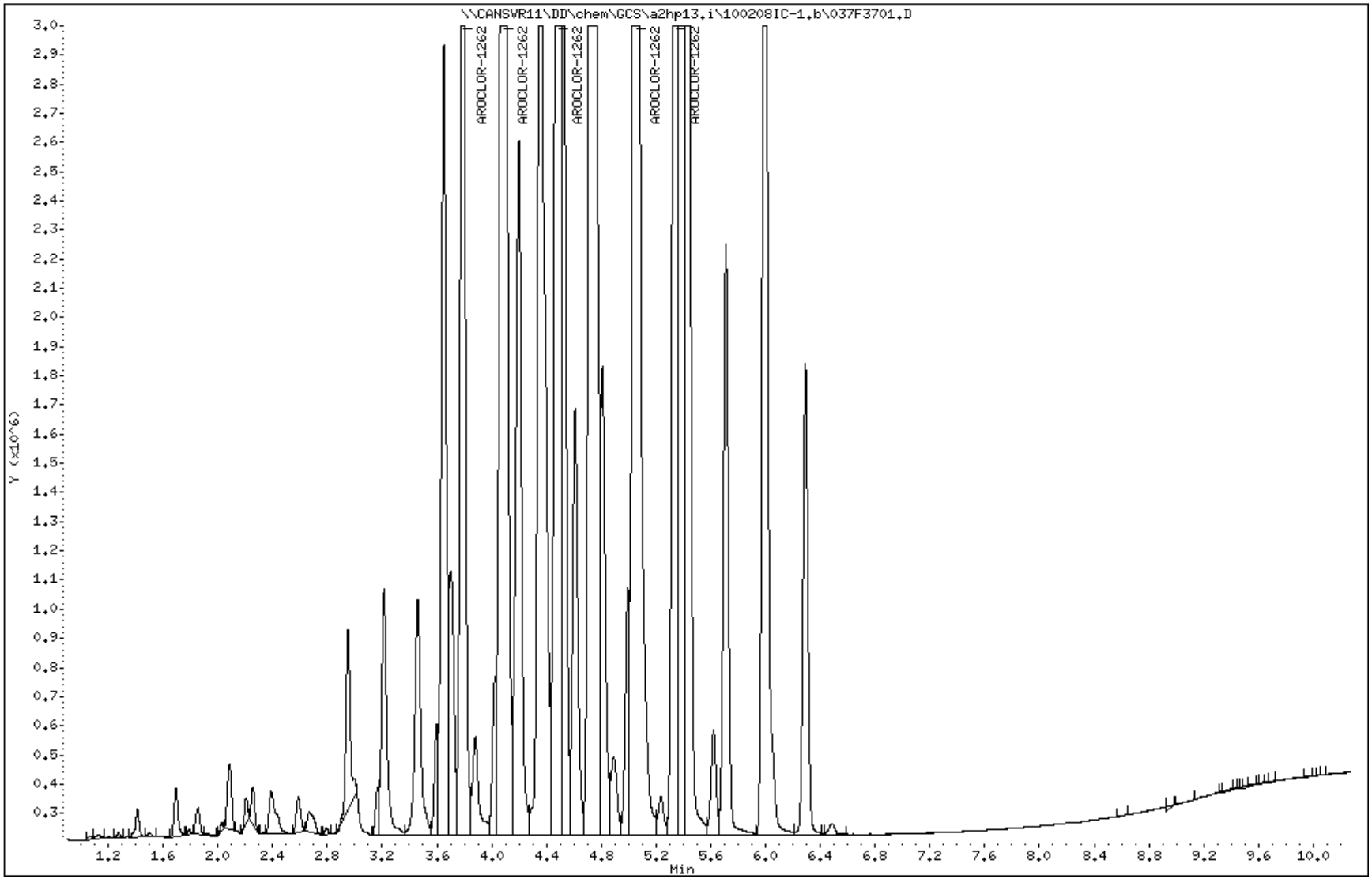
				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.788	3.788	0.000	4202237	2.00000	1.788	75.00- 125.00	100.00
4.079	4.079	0.000	5609737	2.00000	1.803	98.90- 164.83	133.49
4.481	4.481	0.000	6554882	2.00000	1.805	115.68- 192.80	155.99
5.054	5.054	0.000	11809081	2.00000	1.849	208.14- 346.90	281.02
5.336	5.336	0.000	4533729	2.00000	1.867	78.27- 130.46	107.89
		Average of Peak Amounts =			1.82240		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
Date : 09-FEB-2010 00:51
Client ID:
Sample Info: 1262,,1,6

Column phase: restek pest clpI

Instrument: a2hp13.i

Operator:
Column diameter: 0.53



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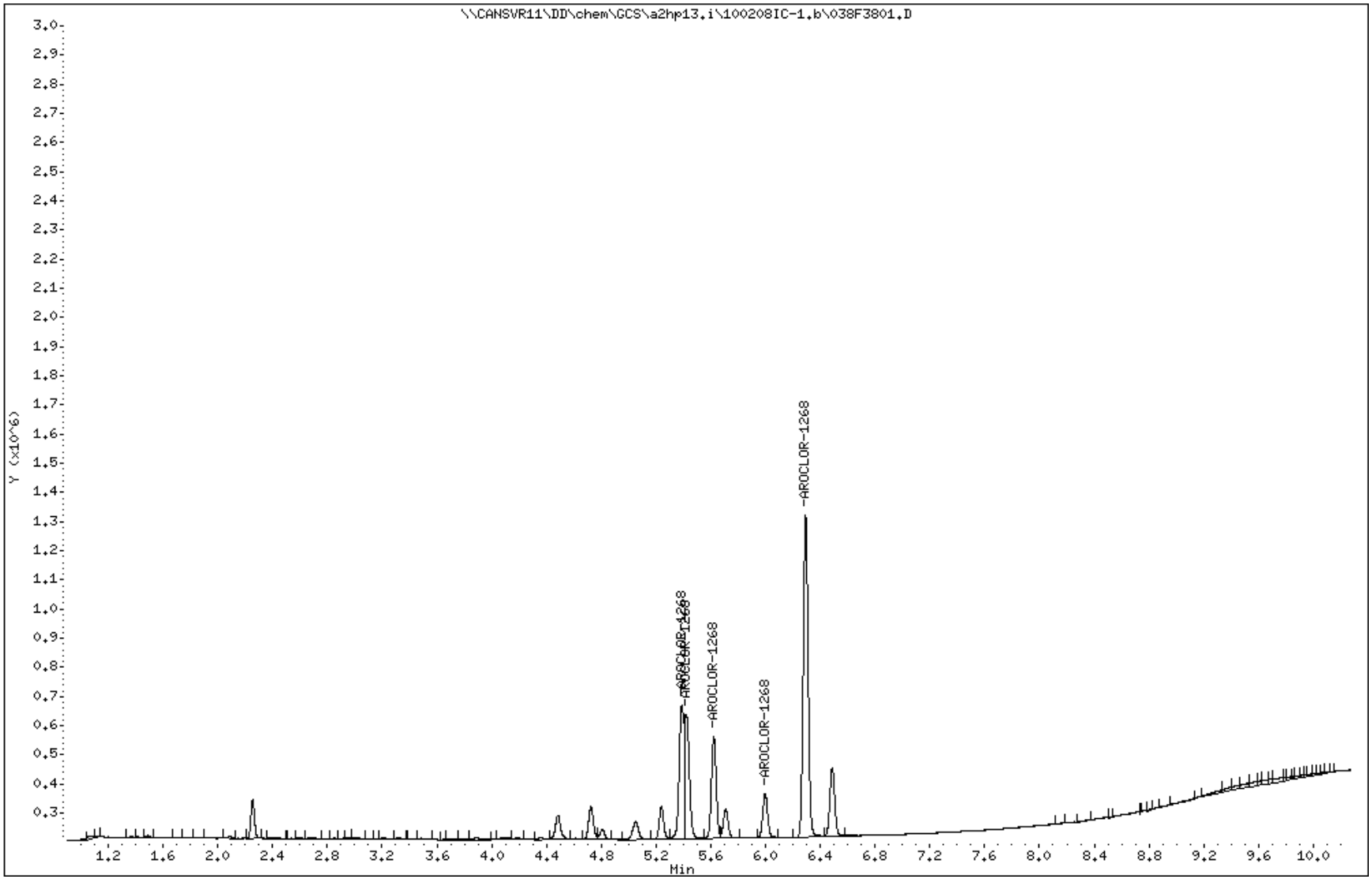
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:06
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,1
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:06 Cal File: 038F3801.D
Als bottle: 38 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	460589	0.05000	0.05417	80.00- 120.00	100.00
5.421	5.439	-0.018	426303	0.05000	0.05321	82.56- 137.59	92.56
5.622	5.630	-0.008	350705	0.05000	0.05334	2.72- 4.53	76.14
5.997	6.005	-0.008	151530	0.05000	0.05363	84.36- 140.61	32.90
6.293	6.302	-0.009	1101678	0.05000	0.05482	17.26- 28.76	239.19
		Average of Peak Amounts =			0.05383		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
Date : 09-FEB-2010 01:06
Client ID:
Sample Info: 1268,,1,1
Column phase: restek pest clpI

Instrument: a2hp13.i
Operator:
Column diameter: 0.53



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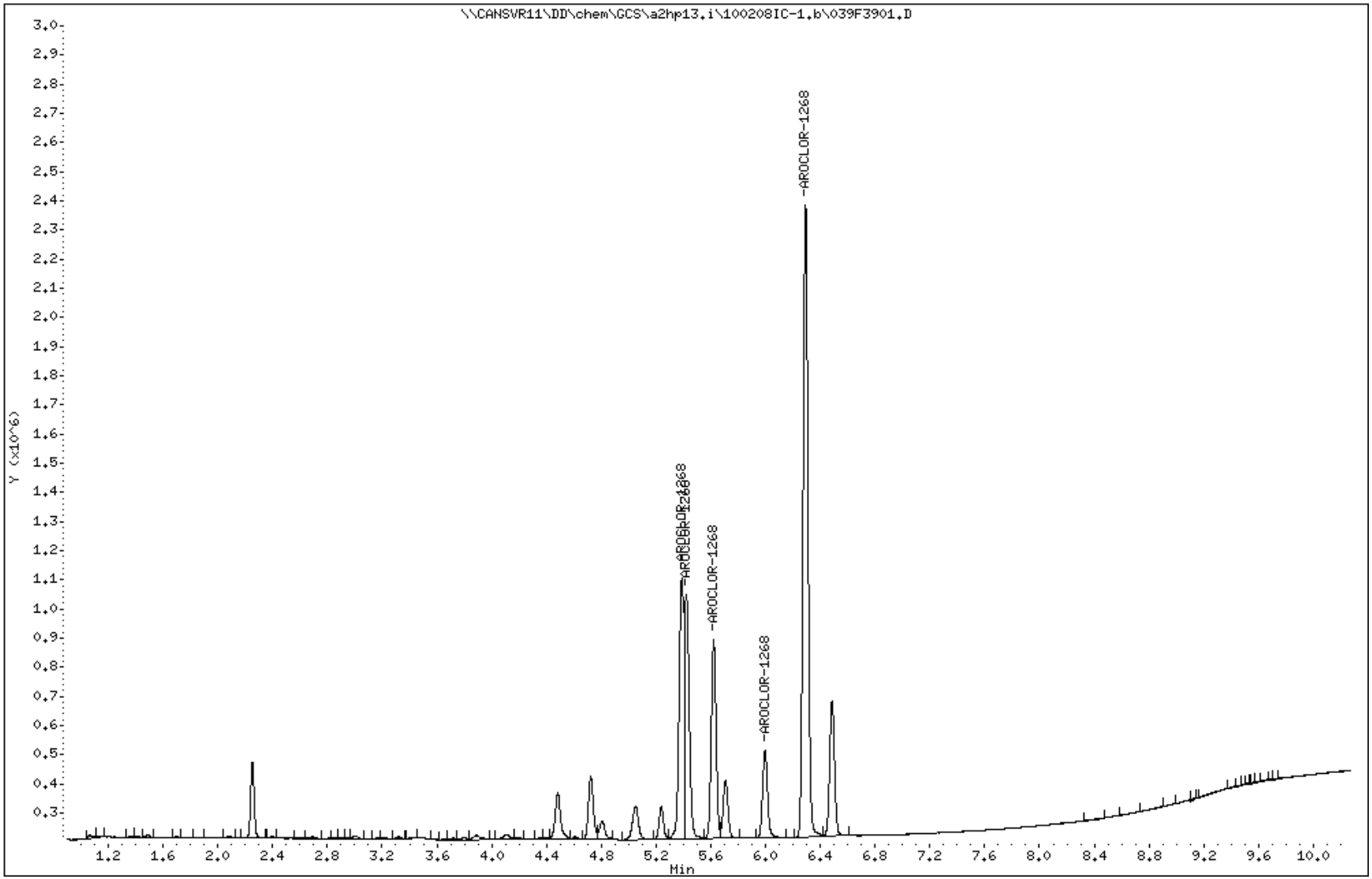
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:21
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,2
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:21 Cal File: 039F3901.D
Als bottle: 39 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.387	5.397	-0.010	893898	0.10000	0.1051	80.00- 120.00	100.00
5.421	5.439	-0.018	838830	0.10000	0.1047	82.56- 137.59	93.84
5.620	5.630	-0.010	681804	0.10000	0.1037	2.72- 4.53	76.27
5.996	6.005	-0.009	300089	0.10000	0.1062	84.36- 140.61	33.57
6.291	6.302	-0.011	2170108	0.10000	0.1080	17.26- 28.76	242.77
		Average of Peak Amounts =			0.10554		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
Date : 09-FEB-2010 01:21
Client ID:
Sample Info: 1268,,1,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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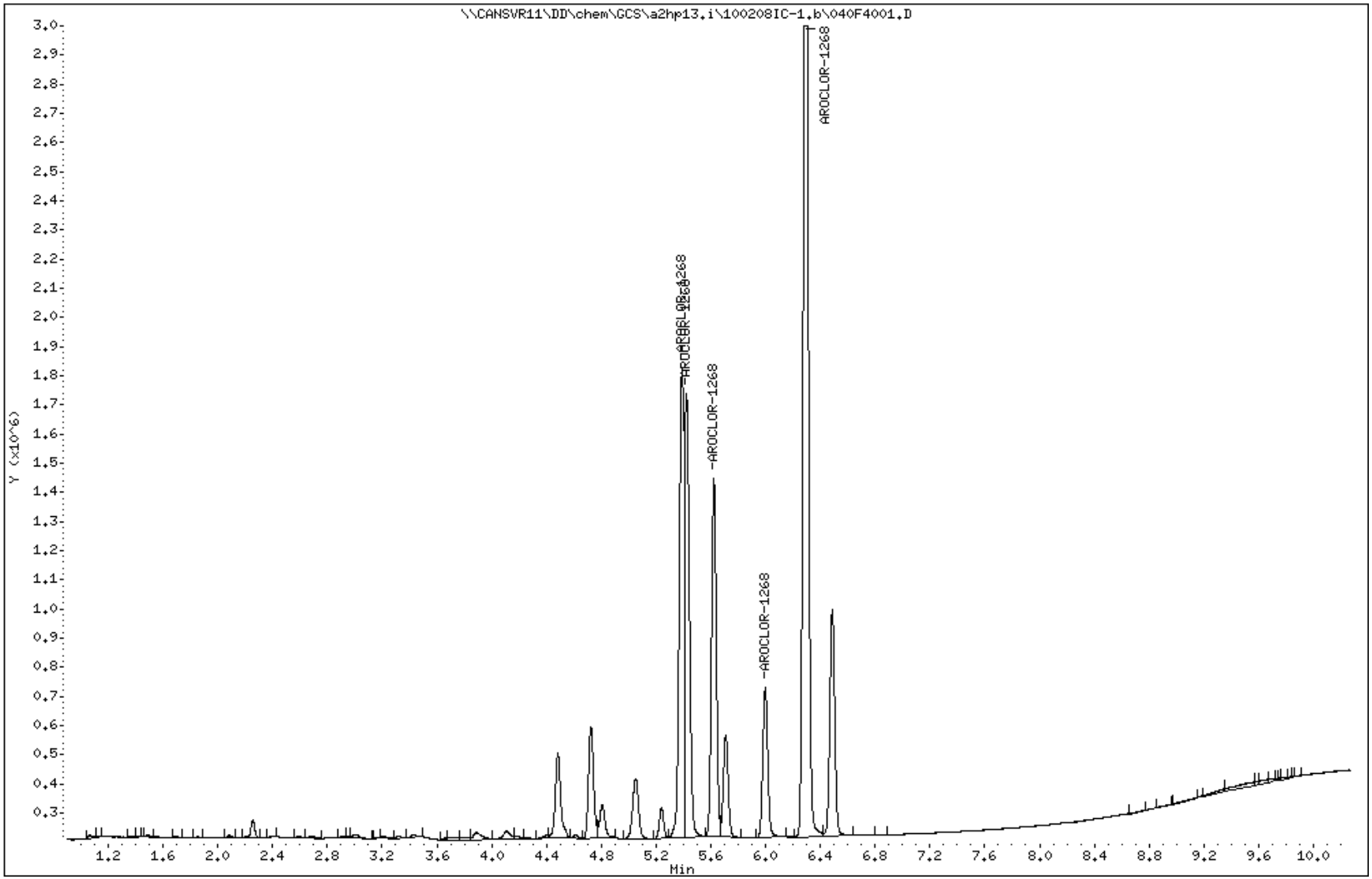
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:37
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,3
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:37 Cal File: 040F4001.D
Als bottle: 40 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	1604518	0.20000	0.1887	80.00- 120.00	100.00
5.422	5.439	-0.017	1519826	0.20000	0.1897	82.56- 137.59	94.72
5.621	5.630	-0.009	1230544	0.20000	0.1872	2.72- 4.53	76.69
5.997	6.005	-0.008	515194	0.20000	0.1823	84.36- 140.61	32.11
6.292	6.302	-0.010	3754156	0.20000	0.1868	17.26- 28.76	233.97
		Average of Peak Amounts =			0.18694		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
Date : 09-FEB-2010 01:37
Client ID:
Sample Info: 1268,,1,3

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



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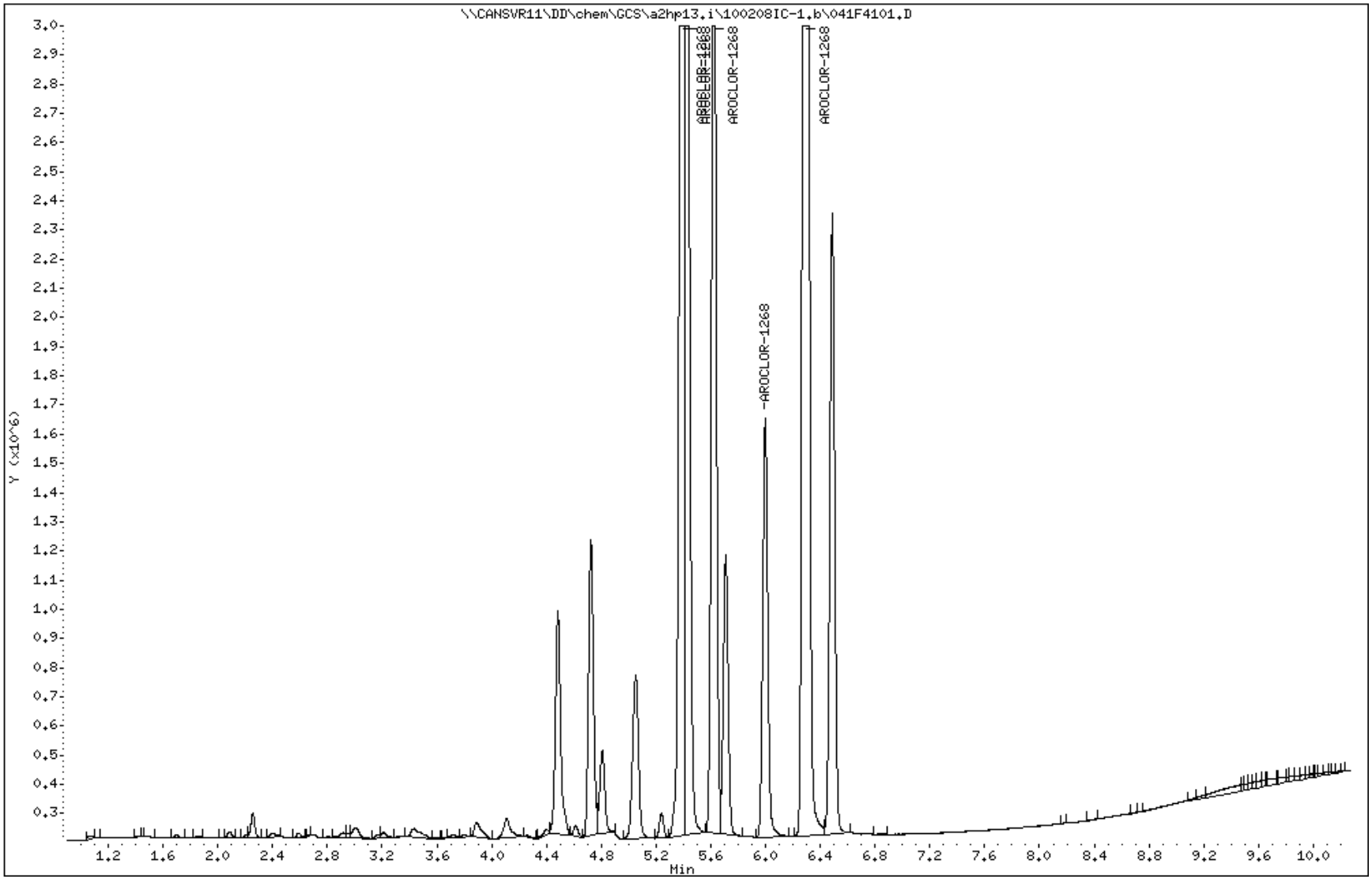
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 01:52
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,4
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 01:52 Cal File: 041F4101.D
Als bottle: 41 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.389	5.397	-0.008	4361223	0.50000	0.5129	80.00- 120.00	100.00
5.421	5.439	-0.018	4134029	0.50000	0.5160	82.56- 137.59	94.79
5.621	5.630	-0.009	3394525	0.50000	0.5163	2.72- 4.53	77.83
5.996	6.005	-0.009	1433306	0.50000	0.5073	84.36- 140.61	32.86
6.293	6.302	-0.009	10152678	0.50000	0.5052	17.26- 28.76	232.79
		Average of Peak Amounts =			0.51154		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
Date : 09-FEB-2010 01:52
Client ID:
Sample Info: 1268,,1,4

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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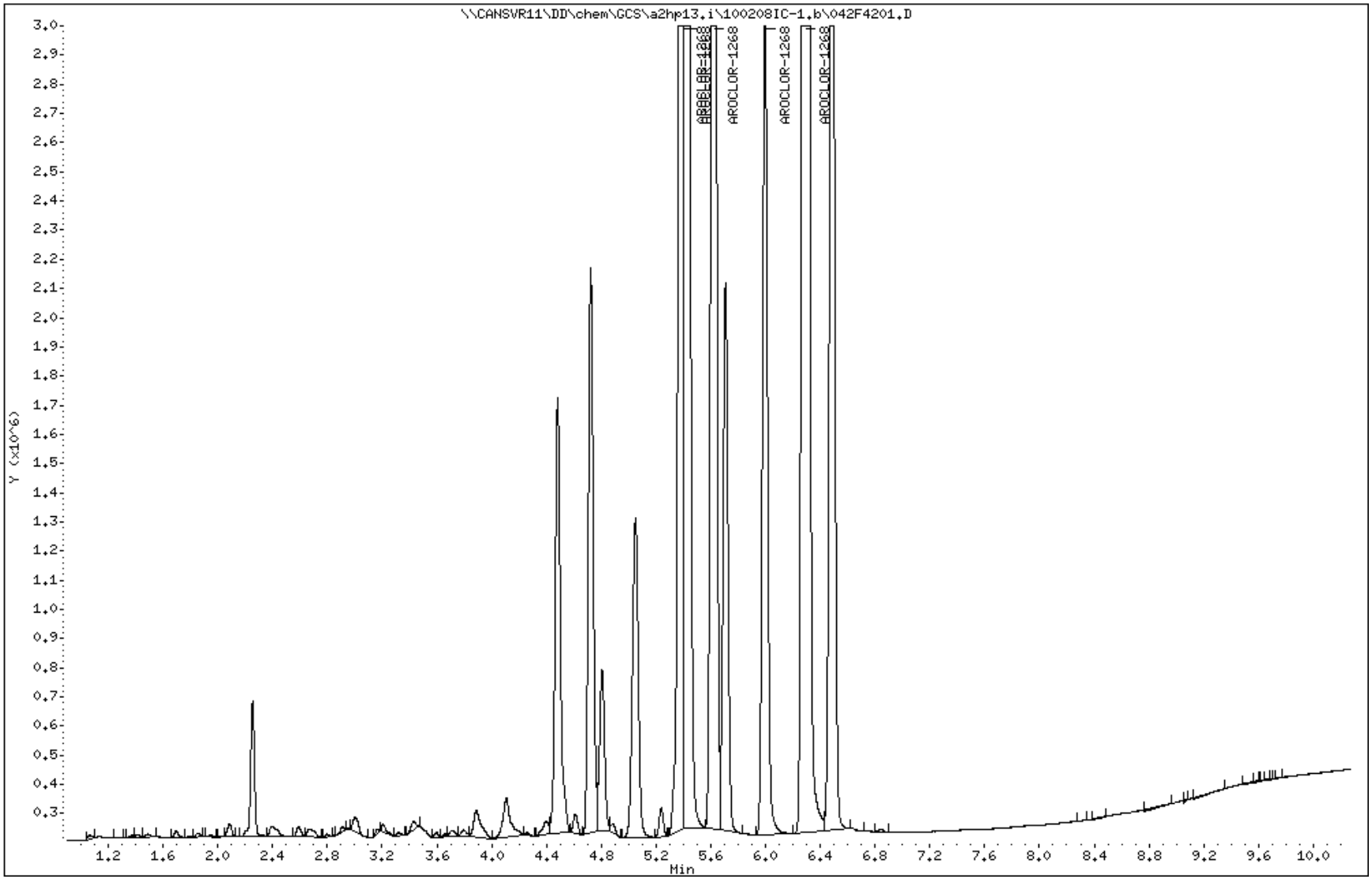
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 02:07
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,5
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 42 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	8455422	1.00000	0.9945	80.00- 120.00	100.00
5.421	5.439	-0.018	8025460	1.00000	1.002	82.56- 137.59	94.91
5.620	5.630	-0.010	6622531	1.00000	1.007	2.72- 4.53	78.32
5.995	6.005	-0.010	2907263	1.00000	1.029	84.36- 140.61	34.38
6.291	6.302	-0.011	20048105	1.00000	0.9977	17.26- 28.76	237.10
		Average of Peak Amounts =			1.00604		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
Date : 09-FEB-2010 02:07
Client ID:
Sample Info: 1268,,1,5

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



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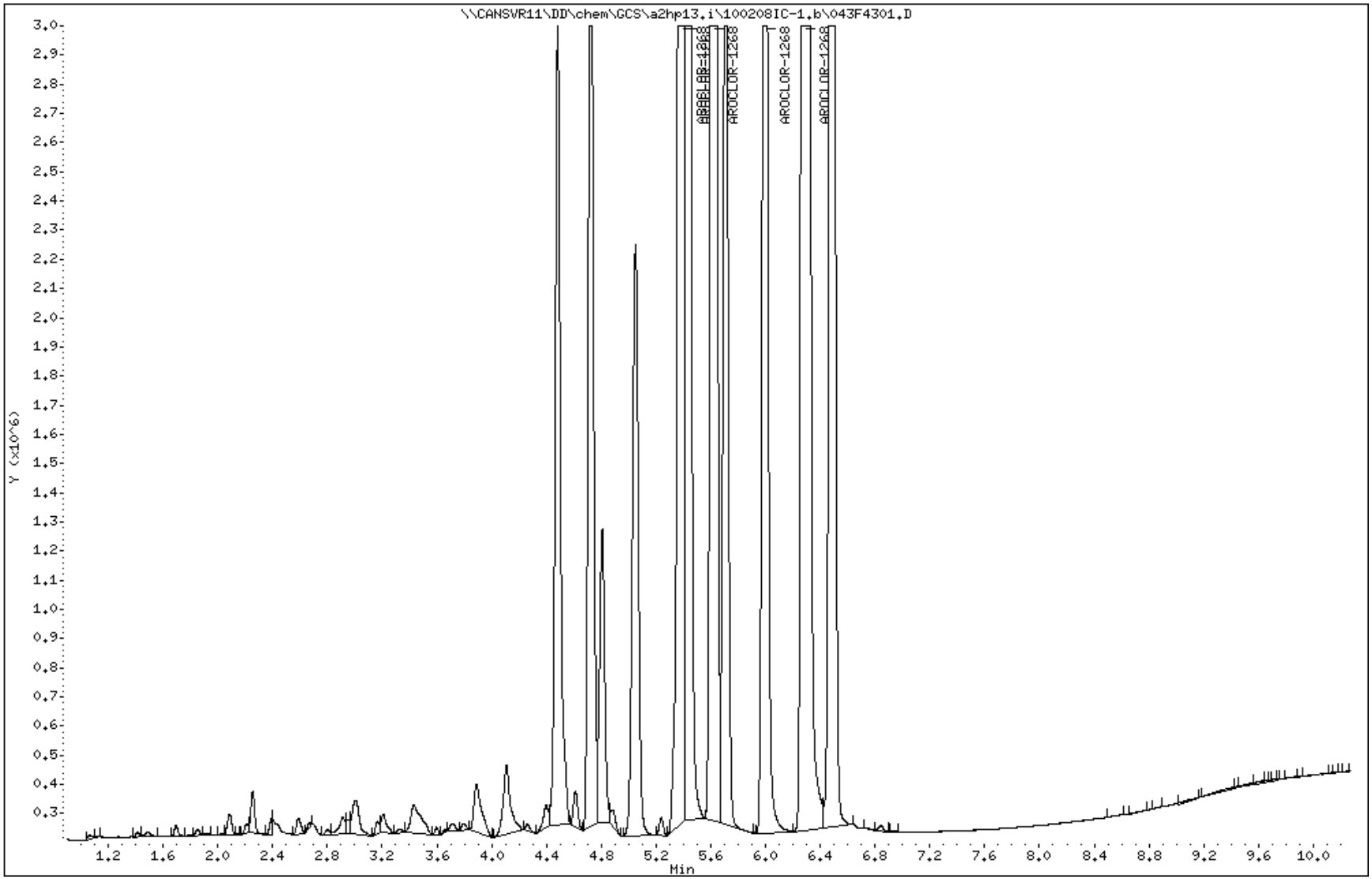
PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
Lab Smp Id: 1268
Inj Date : 09-FEB-2010 02:22
Operator : Inst ID: a2hp13.i
Smp Info : 1268,,1,6
Misc Info : 14-AR1268.SUB
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 07:25 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:22 Cal File: 043F4301.D
Als bottle: 43 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.388	5.397	-0.009	15327765	2.00000	1.803	80.00- 120.00	100.00
5.422	5.439	-0.017	14527923	2.00000	1.813	82.56- 137.59	94.78
5.620	5.630	-0.010	12097268	2.00000	1.840	2.72- 4.53	78.92
5.996	6.005	-0.009	5143258	2.00000	1.820	84.36- 140.61	33.56
6.292	6.302	-0.010	35423594	2.00000	1.763	17.26- 28.76	231.11
		Average of Peak Amounts =			1.80780		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
Date : 09-FEB-2010 02:22
Client ID:
Sample Info: 1268,,1,6

Instrument: a2hp13.i
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Report Date: 09-Feb-2010 09:33

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 09-FEB-2010 08:14
Lab File ID: 046F0101.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: 1CV Quant Type: ESTD
Method: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF1	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
3 AROCLOR-1016(1)	3556491	3431818	0.010	3.50549	15.00000	Averaged
(2)	6154428	5423225	0.010	11.88093	15.00000	Averaged
(3)	12978864	11295129	0.010	12.97290	15.00000	Averaged
(4)	5325964	4692669	0.010	11.89071	15.00000	Averaged
(5)	5303493	4910283	0.010	7.41416	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2857020	0.010	5.34443	15.00000	Averaged
(2)	4226485	4010594	0.010	5.10806	15.00000	Averaged
(3)	3850847	3675256	0.010	4.55980	15.00000	Averaged
(4)	5757318	5880421	0.010	-2.13821	15.00000	Averaged
(5)	3066451	3179542	0.010	-3.68803	15.00000	Averaged

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Report Date: 09-Feb-2010 09:33

TestAmerica North Canton

PCB 8082/608

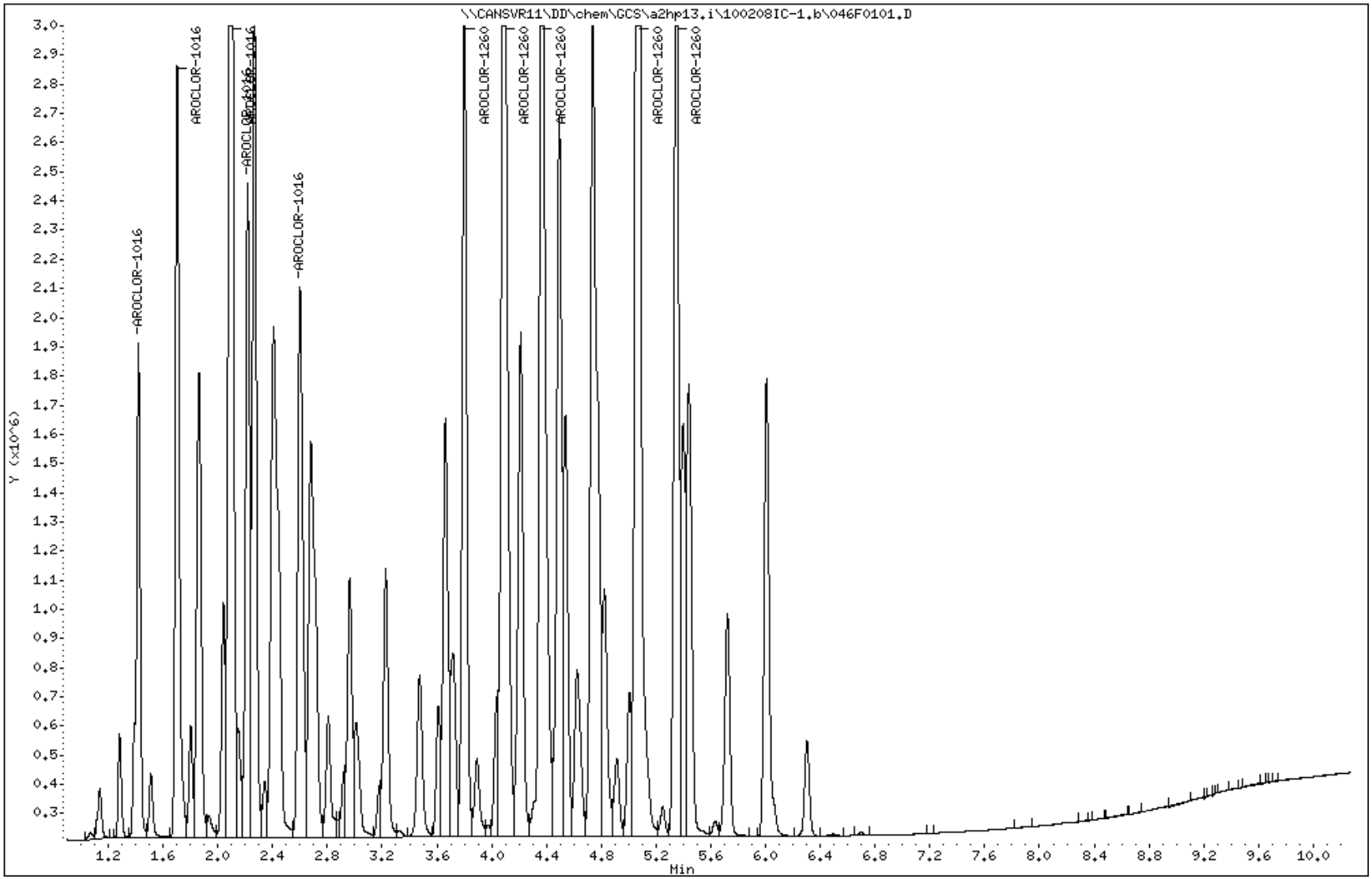
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Lab Smp Id: 1CV
Inj Date : 09-FEB-2010 08:14
Operator : Inst ID: a2hp13.i
Smp Info : 1CV,,2
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\PCB13.m
Meth Date : 09-Feb-2010 09:33 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 46 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: CANPMSV21

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE		RATIO
3 AROCLOR-1016					CAS #: 12674-11-2			
1.420	1.420	0.000	3431818	1.00000	0.9649	80.00- 120.00		100.00
1.702	1.702	0.000	5423225	1.00000	0.8812	118.52- 197.53		158.03
2.096	2.096	0.000	11295129	1.00000	0.8703	246.85- 411.41		329.13
2.217	2.217	0.000	4692669	1.00000	0.8811	102.56- 170.93		136.74
2.599	2.599	0.000	4910283	1.00000	0.9258	107.31- 178.85		143.08
Average of Peak Amounts =					0.90466			
8 AROCLOR-1260					CAS #: 11096-82-5			
3.801	3.801	0.000	2857020	1.00000	0.9466	80.00- 120.00		100.00
4.089	4.089	0.000	4010594	1.00000	0.9489	105.28- 175.47		140.38
4.366	4.366	0.000	3675256	1.00000	0.9544	96.48- 160.80		128.64
5.066	5.066	0.000	5880421	1.00000	1.021	154.37- 257.28		205.82
5.347	5.347	0.000	3179542	1.00000	1.037	83.47- 139.11		111.29
Average of Peak Amounts =					0.98158			

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\046F0101.D
Date : 09-FEB-2010 08:14
Client ID:
Sample Info: 1CV,,2

Instrument: a2hp13.i
Operator:
Column diameter: 0.53

Column phase: restek pest clpI



FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TALCAN Case No.: SAS No.: SDG No.: A0B250463

GC Column: RESTEK PEST CLPI ID: 0.53 (mm) Init. Calib. Date(s): 02/08/10 02/09/10

Instrument ID: A2HP13

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		MRL	03/05/10	1043		
02		E009	03/05/10	1312		
03	ATASB-008-51	LV3KQ1AF	03/05/10	1327		
04	ATASB-008-51	LV3KR1AR	03/05/10	1341		
05	ATASB-008-51	LV3KR1CC	03/05/10	1356		
06	ATASB-008-51	LV3KR1CD	03/05/10	1411		
07	LV6AQBLK	LV6AQ1AA	03/05/10	1426		
08		E009	03/05/10	1440		
09	F16SS-026M-5	LV3LJ1AE	03/05/10	1455		
10	LV6AQCHK	LV6AQ1AC	03/05/10	1624		
11		E009	03/05/10	1639		
12		MRL	03/05/10	1654		
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 23-Mar-2010 11:26

Calibration History

Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Start Cal Date: 08-FEB-2010 16:06
End Cal Date : 09-FEB-2010 02:22
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
09-FEB-2010 01:06	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\038F3801.D
08-FEB-2010 23:37	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\032F3201.D
08-FEB-2010 22:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\026F2601.D
08-FEB-2010 20:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\020F2001.D
08-FEB-2010 19:06	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\014F1401.D
08-FEB-2010 17:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\008F0801.D
08-FEB-2010 16:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\002F0201.D
Cal Level: 2 , Cal Amount: 0.10000		
09-FEB-2010 01:21	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\039F3901.D
08-FEB-2010 23:52	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\033F3301.D
08-FEB-2010 22:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\027F2701.D
08-FEB-2010 20:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\021F2101.D
08-FEB-2010 19:21	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\015F1501.D
08-FEB-2010 17:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\009F0901.D
08-FEB-2010 16:21	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\003F0301.D
Cal Level: 3 , Cal Amount: 0.20000		
09-FEB-2010 01:37	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\040F4001.D
09-FEB-2010 00:06	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\034F3401.D
08-FEB-2010 22:36	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\028F2801.D
08-FEB-2010 21:07	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\022F2201.D
08-FEB-2010 19:36	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\016F1601.D

08-FEB-2010 18:06	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\010F1001.D
08-FEB-2010 16:36	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\004F0401.D

Cal Level: 4 , Cal Amount: 0.50000		
09-FEB-2010 01:52	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\041F4101.D
09-FEB-2010 00:21	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\035F3501.D
08-FEB-2010 22:52	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\029F2901.D
08-FEB-2010 21:21	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\023F2301.D
08-FEB-2010 19:51	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\017F1701.D
08-FEB-2010 18:22	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\011F1101.D
08-FEB-2010 16:51	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\005F0501.D

Cal Level: 5 , Cal Amount: 1.00000		
09-FEB-2010 02:07	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\042F4201.D
09-FEB-2010 00:36	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\036F3601.D
08-FEB-2010 23:07	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\030F3001.D
08-FEB-2010 21:36	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\024F2401.D
08-FEB-2010 20:07	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\018F1801.D
08-FEB-2010 18:37	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\012F1201.D
08-FEB-2010 17:06	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\006F0601.D

Cal Level: 6 , Cal Amount: 2.00000		
09-FEB-2010 02:22	14-AR1268	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\043F4301.D
09-FEB-2010 00:51	13-AR1262	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\037F3701.D
08-FEB-2010 23:21	12-AR1660TD	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\031F3101.D
08-FEB-2010 21:52	9-AR2154	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\025F2501.D
08-FEB-2010 20:22	3-AR1248	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\019F1901.D
08-FEB-2010 18:51	2-AR1242	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\013F1301.D
08-FEB-2010 17:22	1-AR1232	\\CANSVR11\DD\chem\GCS\a2hp13.i\100208IC-1.b\007F0701.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

05-MAR-2010 19:24	12-AR1660TD	\\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\051F5101.D
05-MAR-2010 16:39	12-AR1660TD	\\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\040F4001.D
05-MAR-2010 14:40	12-AR1660TD	\\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\032F3201.D
05-MAR-2010 13:12	12-AR1660TD	\\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\026F2601.D
05-MAR-2010 10:28	12-AR1660TD	\\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\015F1501.D
05-MAR-2010 08:30	all	\\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\007F0701.D
05-MAR-2010 08:15	3-AR1248	\\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\006F0601.D
05-MAR-2010 08:00	2-AR1242	\\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\005F0501.D
05-MAR-2010 07:45	1-AR1232	\\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\004F0401.D
05-MAR-2010 07:15	12-AR1660TD	\\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\002F0201.D

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100305-1.b\016F1601.D
Report Date: 05-Mar-2010 11:43

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa02149
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MRL
Level: LOW Operator:
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: 6-AR1660.sub
Method File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
3 AROCLOR-1016	0.05000	0.04948	98.95	70-130
8 AROCLOR-1260	0.05000	0.04589	91.79	70-130

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100305-1.b\016F1601.D
Report Date: 05-Mar-2010 11:43

TestAmerica North Canton

PCB 8082/608

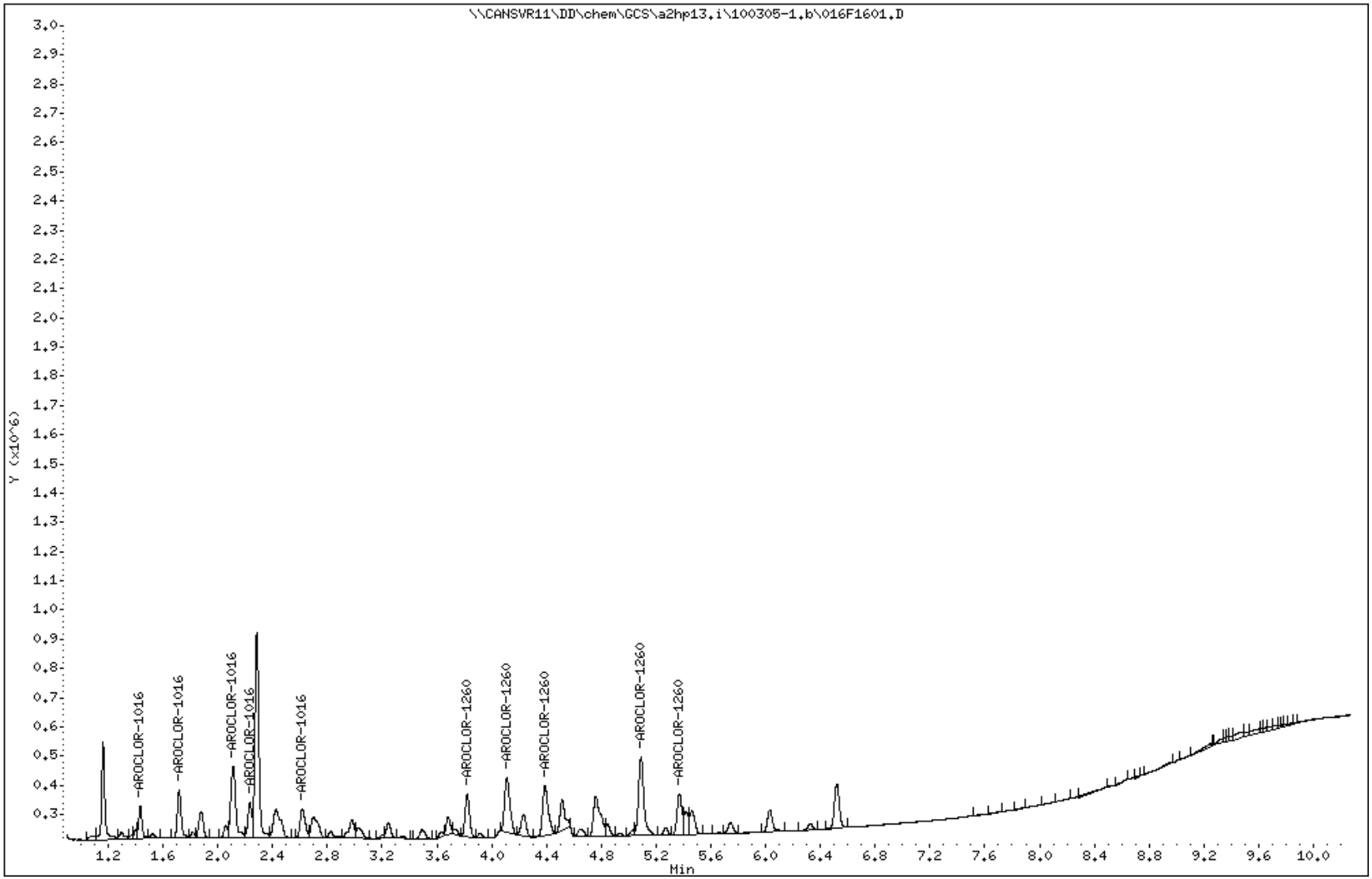
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100305-1.b\016F1601.D
Lab Smp Id: MRL
Inj Date : 05-MAR-2010 10:43
Operator : Inst ID: a2hp13.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 10:36 Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 16 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	final volume
Vo	1000.000	intitial volume
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
3 AROCLOR-1016						CAS #: 12674-11-2	
1.433	1.431	0.002	186981	0.05257	0.05257	80.00- 120.00	100.00
1.717	1.714	0.003	313044	0.05086	0.05086	134.70- 224.50	167.42
2.112	2.109	0.003	640993	0.04939	0.04939	289.06- 481.76	342.81
2.233	2.231	0.002	237531	0.04460	0.04460	117.49- 195.81	127.03
2.617	2.614	0.003	264910	0.04995	0.04995	115.82- 193.04	141.68
Average of Peak Concentrations =				0.04948			
8 AROCLOR-1260						CAS #: 11096-82-5	
3.821	3.819	0.002	145396	0.04817	0.04817	80.00- 120.00	100.00
4.111	4.107	0.004	188553	0.04461	0.04461	104.67- 174.46	129.68
4.387	4.385	0.002	169919	0.04413	0.04412	95.45- 159.08	116.87
5.088	5.086	0.002	267356	0.04644	0.04644	148.06- 246.76	183.88
5.371	5.368	0.003	141429	0.04612	0.04612	77.42- 129.03	97.27
Average of Peak Concentrations =				0.04589			

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100305-1.b\016F1601.D
Date : 05-MAR-2010 10:43
Client ID:
Instrument: a2hp13.i
Sample Info: MRL
Purge Volume: 1000.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\026F2601.D
Report Date: 05-Mar-2010 13:20

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 05-MAR-2010 13:12
Lab File ID: 026F2601.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: E009 Quant Type: ESTD
Method: \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m

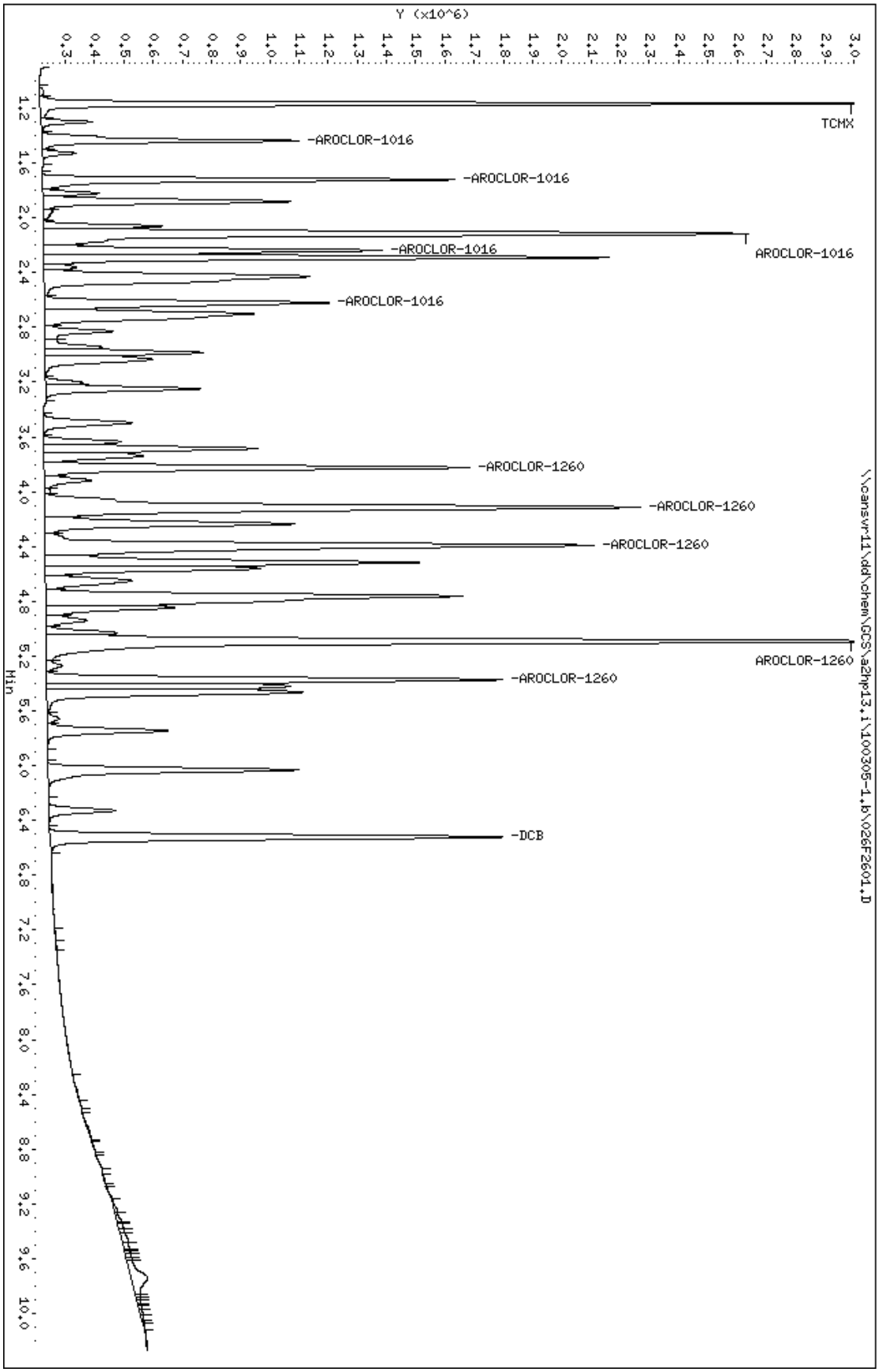
COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 TCMX	124233510	112478800	0.010	9.46179	15.00000	Averaged
3 AROCLOR-1016(1)	3556491	3776666	0.010	-6.19081	15.00000	Averaged
(2)	6154428	5882644	0.010	4.41608	15.00000	Averaged
(3)	12978864	12845900	0.010	1.02446	15.00000	Averaged
(4)	5325964	5029920	0.010	5.55850	15.00000	Averaged
(5)	5303493	5182344	0.010	2.28432	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2913202	0.010	3.48307	15.00000	Averaged
(2)	4226485	4078156	0.010	3.50952	15.00000	Averaged
(3)	3850847	3756892	0.010	2.43985	15.00000	Averaged
(4)	5757318	5911992	0.010	-2.68657	15.00000	Averaged
(5)	3066451	3118918	0.010	-1.71102	15.00000	Averaged
$ 9 DCB	55471757	61949720	0.010	-11.67795	15.00000	Averaged

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\026F2601.D
Lab Smp Id: E009
Inj Date : 05-MAR-2010 13:12
Operator : Inst ID: a2hp13.i
Smp Info : E009,,2
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 13:19 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.165	1.165	0.000	2811970	0.02500	0.02263		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.436	1.436	0.000	1888333	0.50000	0.5310	80.00- 120.00	100.00
1.720	1.720	0.000	2941322	0.50000	0.4779	116.82- 194.70	155.76
2.115	2.115	0.000	6422950	0.50000	0.4949	255.10- 425.17	340.14
2.237	2.237	0.000	2514960	0.50000	0.4722	99.89- 166.48	133.18
2.620	2.620	0.000	2591172	0.50000	0.4886	102.92- 171.53	137.22
	Average of Peak Amounts =				0.49292		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.823	3.823	0.000	1456601	0.50000	0.4826	80.00- 120.00	100.00
4.112	4.112	0.000	2039078	0.50000	0.4824	104.99- 174.99	139.99
4.391	4.391	0.000	1878446	0.50000	0.4878	96.72- 161.20	128.96
5.091	5.091	0.000	2955996	0.50000	0.5134	152.20- 253.67	202.94
5.373	5.373	0.000	1559459	0.50000	0.5086	80.30- 133.83	107.06
	Average of Peak Amounts =				0.49496		
$ 9 DCB					CAS #: 2051-24-3		
6.521	6.521	0.000	1548743	0.02500	0.02792		


Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\026F2601.D
Date : 05-MAR-2010 13:12
Client ID:
Sample Info: E009,,2
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
TCMX
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1260
-AROCLOR-1260
-AROCLOR-1260
AROCLOR-1260
-AROCLOR-1260
-DCB
Min
\\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\026F2601.D

Data File: \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\032F3201.D
Report Date: 05-Mar-2010 14:49

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 05-MAR-2010 14:40
Lab File ID: 032F3201.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: E009 Quant Type: ESTD
Method: \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 TCMX	124233510	127748440	0.010	-2.82929	15.00000	Averaged
3 AROCLOR-1016(1)	3556491	3256658	0.010	8.43057	15.00000	Averaged
(2)	6154428	5755274	0.010	6.48564	15.00000	Averaged
(3)	12978864	12535892	0.010	3.41302	15.00000	Averaged
(4)	5325964	4691018	0.010	11.92171	15.00000	Averaged
(5)	5303493	5076162	0.010	4.28643	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2799242	0.010	7.25867	15.00000	Averaged
(2)	4226485	3946894	0.010	6.61522	15.00000	Averaged
(3)	3850847	3626326	0.010	5.83043	15.00000	Averaged
(4)	5757318	5659360	0.010	1.70144	15.00000	Averaged
(5)	3066451	2961384	0.010	3.42632	15.00000	Averaged
$ 9 DCB	55471757	58234360	0.010	-4.98020	15.00000	Averaged

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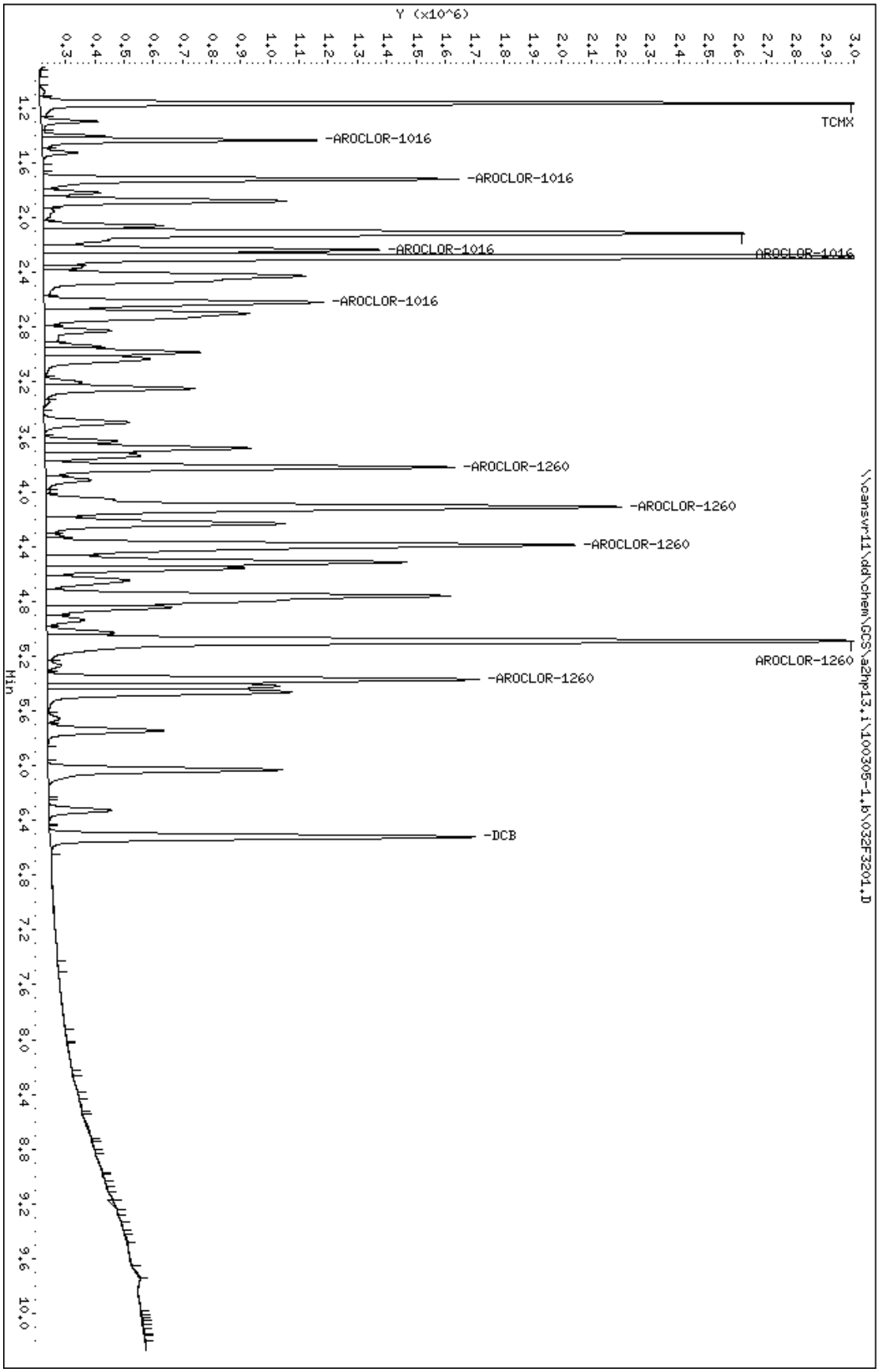
PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\032F3201.D
Lab Smp Id: E009
Inj Date : 05-MAR-2010 14:40
Operator : Inst ID: a2hp13.i
Smp Info : E009,,2
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 14:48 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 32 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.162	0.000	3193711	0.02500	0.02571		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.433	1.433	0.000	1628329	0.50000	0.4578	80.00- 120.00	100.00
1.717	1.717	0.000	2877637	0.50000	0.4676	132.54- 220.90	176.72
2.113	2.113	0.000	6267946	0.50000	0.4829	288.70- 481.16	384.93
2.233	2.233	0.000	2345509	0.50000	0.4404	108.03- 180.05	144.04
2.618	2.618	0.000	2538081	0.50000	0.4786	116.90- 194.84	155.87
	Average of Peak Amounts =				0.46546		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.822	3.822	0.000	1399621	0.50000	0.4637	80.00- 120.00	100.00
4.111	4.111	0.000	1973447	0.50000	0.4669	105.75- 176.25	141.00
4.388	4.388	0.000	1813163	0.50000	0.4708	97.16- 161.93	129.55
5.090	5.090	0.000	2829680	0.50000	0.4915	151.63- 252.72	202.17
5.371	5.371	0.000	1480692	0.50000	0.4829	79.34- 132.24	105.79
	Average of Peak Amounts =				0.47516		
$ 9 DCB					CAS #: 2051-24-3		
6.520	6.520	0.000	1455859	0.02500	0.02624		


Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\032F3201.D
Date : 05-MAR-2010 14:40
Client ID:
Sample Info: E009,,2
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
TCMX
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1260
-AROCLOR-1260
-AROCLOR-1260
AROCLOR-1260
-AROCLOR-1260
-DCB
Min
\\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\032F3201.D

Data File: \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\040F4001.D
Report Date: 05-Mar-2010 16:48

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp13.i Injection Date: 05-MAR-2010 16:39
Lab File ID: 040F4001.D Init. Cal. Date(s): 08-FEB-2010 09-FEB-2010
Analysis Type: Init. Cal. Times: 16:06 02:22
Lab Sample ID: E009 Quant Type: ESTD
Method: \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 TCMX	124233510	129129200	0.010	-3.94072	15.00000	Averaged
3 AROCLOR-1016(1)	3556491	3345698	0.010	5.92698	15.00000	Averaged
(2)	6154428	5940942	0.010	3.46882	15.00000	Averaged
(3)	12978864	12741276	0.010	1.83057	15.00000	Averaged
(4)	5325964	4755074	0.010	10.71900	15.00000	Averaged
(5)	5303493	5183022	0.010	2.27153	15.00000	Averaged
8 AROCLOR-1260(1)	3018333	2828678	0.010	6.28342	15.00000	Averaged
(2)	4226485	3980454	0.010	5.82118	15.00000	Averaged
(3)	3850847	3646998	0.010	5.29361	15.00000	Averaged
(4)	5757318	5695460	0.010	1.07442	15.00000	Averaged
(5)	3066451	3020738	0.010	1.49073	15.00000	Averaged
$ 9 DCB	55471757	60214880	0.010	-8.55052	15.00000	Averaged

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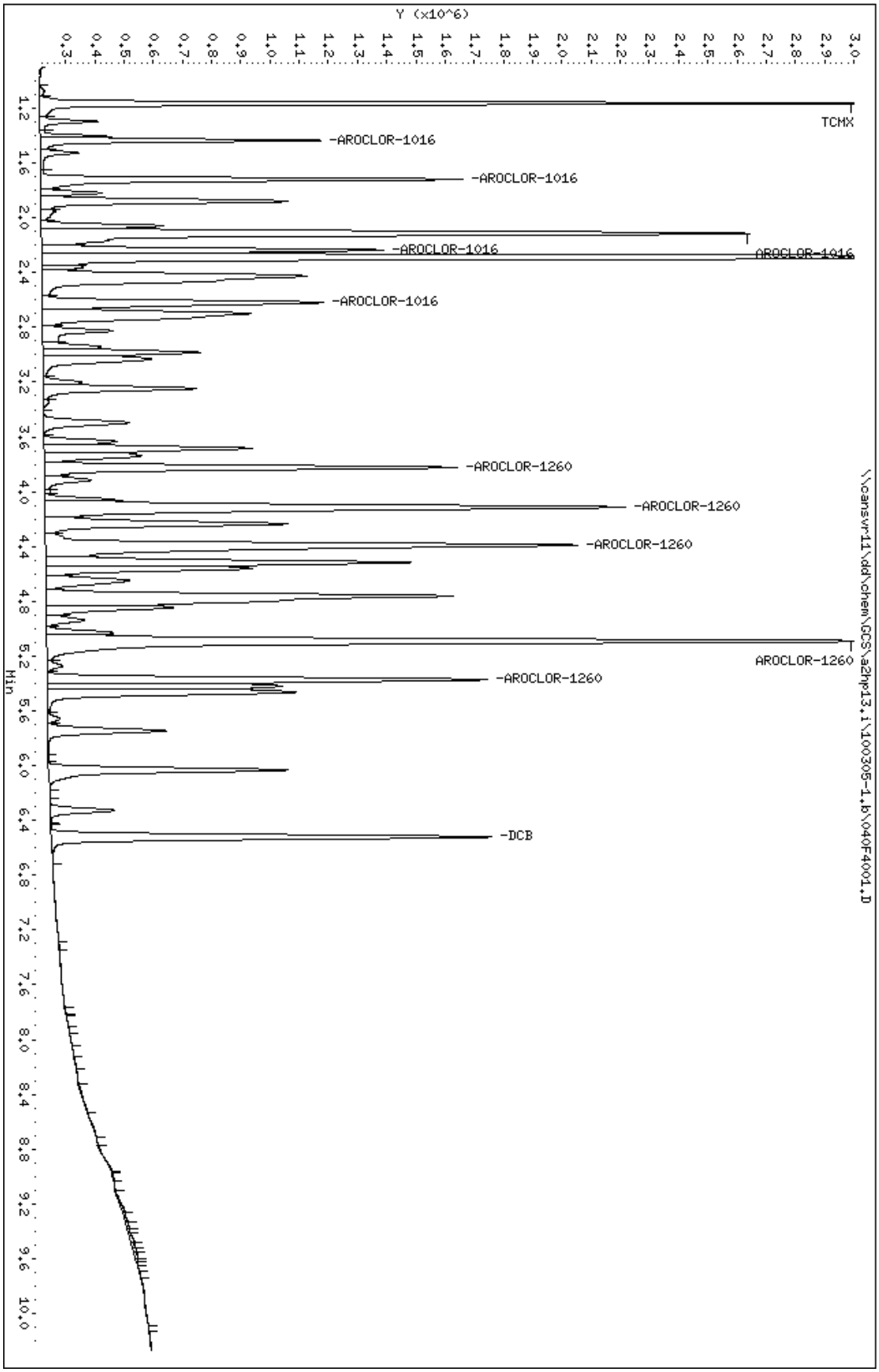
PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\040F4001.D
Lab Smp Id: E009
Inj Date : 05-MAR-2010 16:39
Operator : Inst ID: a2hp13.i
Smp Info : E009,,2
Misc Info : 12-AR1660TD.SUB
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 16:47 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: None
Processing Host: CANSVR11

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.163	1.163	0.000	3228230	0.02500	0.02598		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.434	1.434	0.000	1672849	0.50000	0.4704	80.00- 120.00	100.00
1.718	1.718	0.000	2970471	0.50000	0.4826	133.18- 221.96	177.57
2.114	2.114	0.000	6370638	0.50000	0.4908	285.62- 476.03	380.83
2.235	2.235	0.000	2377537	0.50000	0.4464	106.59- 177.66	142.13
2.618	2.618	0.000	2591511	0.50000	0.4886	116.19- 193.65	154.92
Average of Peak Amounts =					0.47576		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.823	3.823	0.000	1414339	0.50000	0.4686	80.00- 120.00	100.00
4.112	4.112	0.000	1990227	0.50000	0.4709	105.54- 175.90	140.72
4.390	4.390	0.000	1823499	0.50000	0.4735	96.70- 161.16	128.93
5.090	5.090	0.000	2847730	0.50000	0.4946	151.01- 251.68	201.35
5.372	5.372	0.000	1510369	0.50000	0.4925	80.09- 133.49	106.79
Average of Peak Amounts =					0.48002		
$ 9 DCB					CAS #: 2051-24-3		
6.520	6.520	0.000	1505372	0.02500	0.02714		


Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\040F4001.D
Date : 05-MAR-2010 16:39
Client ID:
Sample Info: E009,,2
Column phase: restek pest clpI
Instrument: a2hp13.i
Operator:
Column diameter: 0.53
Y (x10^6)
TCMX
-AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1016
AROCLOR-1016
-AROCLOR-1016
-AROCLOR-1260
-AROCLOR-1260
-AROCLOR-1260
AROCLOR-1260
-AROCLOR-1260
-DCB
Min
\\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\040F4001.D

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\041F4101.D
Report Date: 08-Mar-2010 09:50

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa02149
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MRL
Level: LOW Operator:
Data Type: GC MULTI COMP SampleType: MRL
SpikeList File: MRL.spk Quant Type: ESTD
Sublist File: 6-AR1660.sub
Method File: \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ng	AMOUNT RECOVERED ng	% RECOVERED	LIMITS
3 AROCLOR-1016	0.05000	0.05202	104.04	70-130
8 AROCLOR-1260	0.05000	0.05014	100.29	70-130

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PCB 8082/608

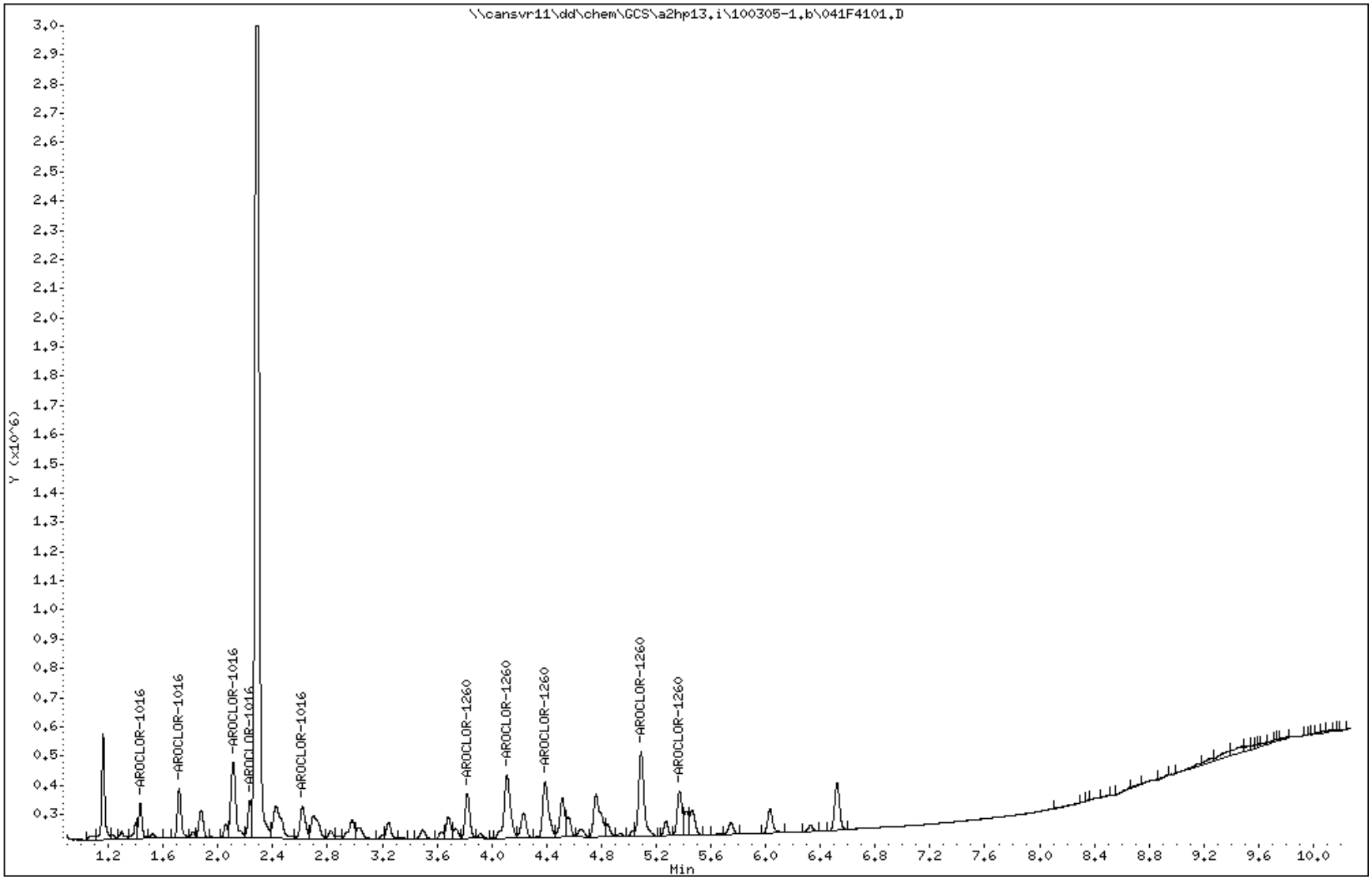
Data file : \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\041F4101.D
Lab Smp Id: MRL
Inj Date : 05-MAR-2010 16:54
Operator : Inst ID: a2hp13.i
Smp Info : MRL
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 19:31 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 41 QC Sample: MRL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPGCSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000.000	final volume
Vo	1000.000	intitial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
3 AROCLOR-1016					CAS #: 12674-11-2		
1.434	1.434	0.000	201919	0.05677	0.05677	80.00- 120.00	100.00
1.717	1.717	0.000	328223	0.05333	0.05333	132.36- 220.61	162.55
2.113	2.112	0.001	681414	0.05250	0.05250	289.64- 482.73	337.47
2.235	2.234	0.001	225372	0.04232	0.04232	110.27- 183.79	111.62
2.617	2.617	0.000	292600	0.05517	0.05517	117.11- 195.18	144.91
	Average of Peak Concentrations =			0.05202			
8 AROCLOR-1260					CAS #: 11096-82-5		
3.821	3.821	0.000	153823	0.05096	0.05096	80.00- 120.00	100.00
4.111	4.112	-0.001	214840	0.05083	0.05083	105.08- 175.13	139.67
4.390	4.390	0.000	189167	0.04912	0.04912	95.98- 159.96	122.98
5.090	5.090	0.000	289602	0.05030	0.05030	148.63- 247.72	188.27
5.371	5.371	0.000	151799	0.04950	0.04950	77.23- 128.71	98.68
	Average of Peak Concentrations =			0.05014			

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\041F4101.D
Date : 05-MAR-2010 16:54
Client ID:
Instrument: a2hp13.i
Sample Info: MRL
Purge Volume: 1000.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\046F4601.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\046F4601.D
Lab Smp Id: 1232 10ML MDL
Inj Date : 08-JAN-2010 19:11
Operator : Inst ID: a2hp13.i
Smp Info : 1232 10ML MDL
Misc Info : 1232 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1232.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

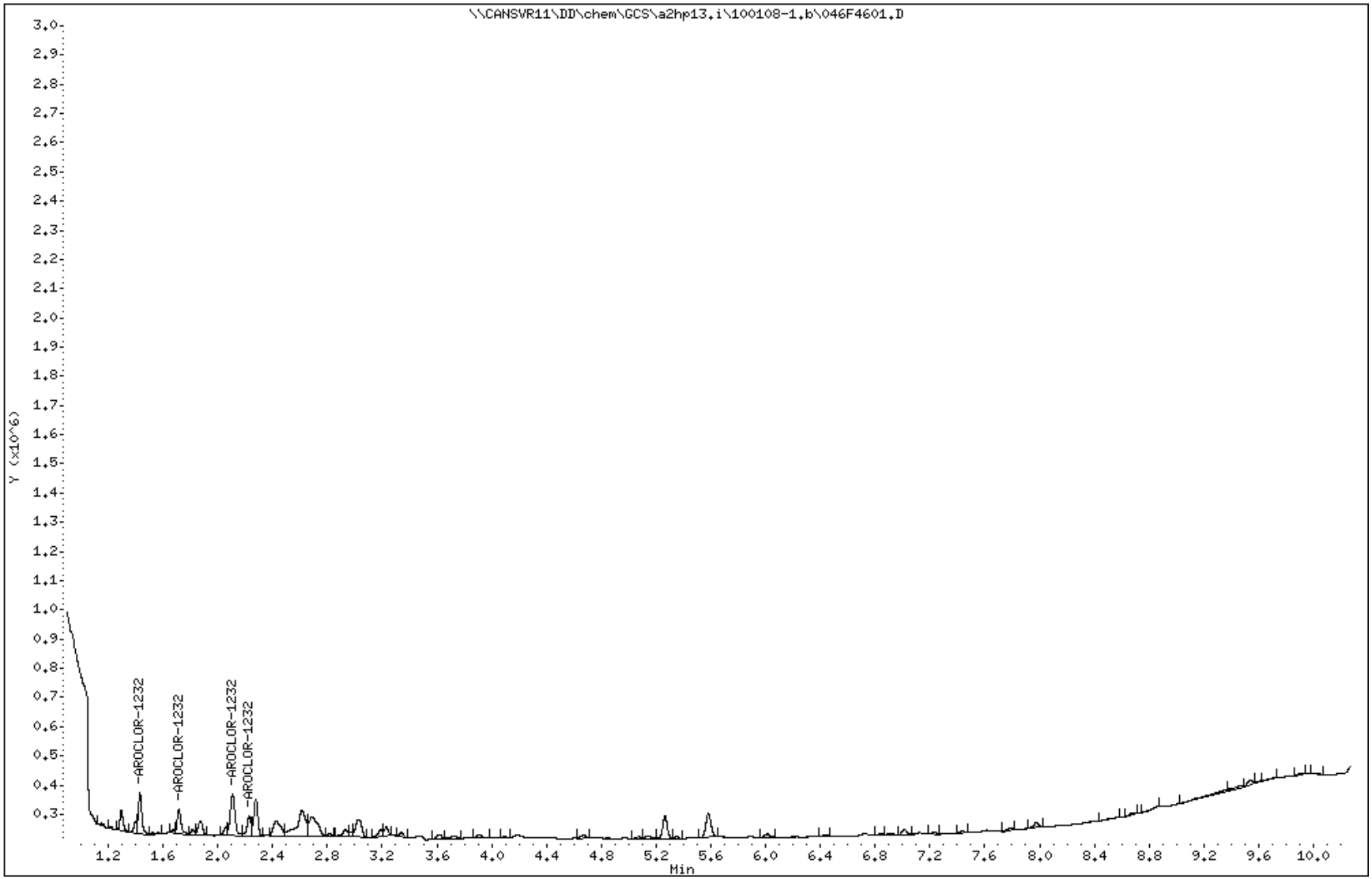
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
4 AROCLOR-1232					CAS #: 11141-16-5		
1.431	1.438	-0.007	244458	0.08394	27.98	80.00- 120.00	100.00(M)
1.714	1.723	-0.009	162511	0.07749	25.83	7.36- 12.27	66.48
2.108	2.116	-0.008	346590	0.07904	26.35	15.62- 26.04	141.78
2.228	2.237	-0.009	140699	0.08096	26.99	6.38- 10.64	57.56
2.613	2.618	-0.005	0	0.0000	0.0000	31.19- 51.99	0.00
		Average of Peak Concentrations =			26.78		

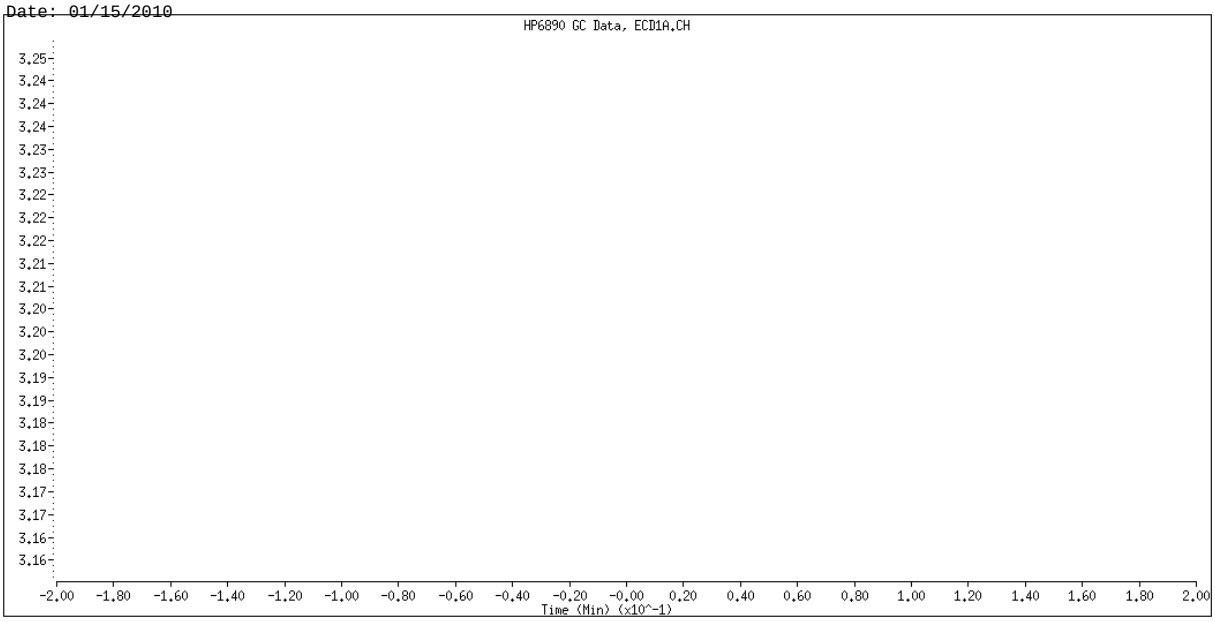
QC Flag Legend

M - Compound response manually integrated.

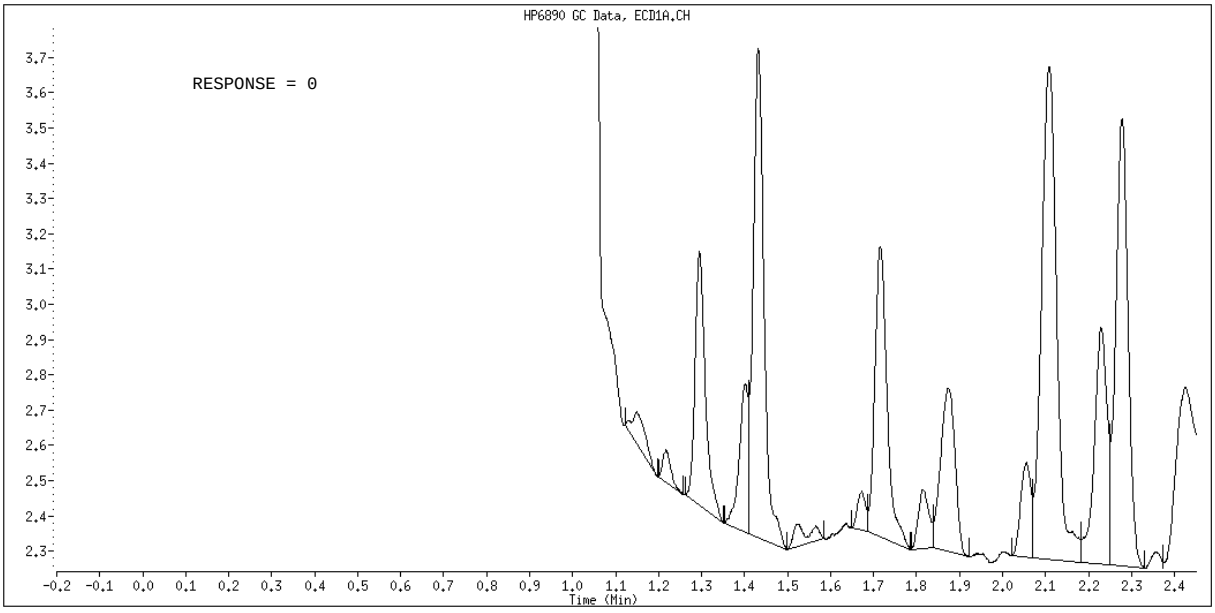
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\046F4601.D
Date : 08-JAN-2010 19:11
Client ID:
Instrument: a2hp13.i
Sample Info: 1232 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 046F4601.D
Inj. Date and Time: 08-JAN-2010 19:11
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1232
CAS #: 11141-16-5
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\047F4701.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\047F4701.D
Lab Smp Id: 1242 10ML MDL
Inj Date : 08-JAN-2010 19:25
Operator : Inst ID: a2hp13.i
Smp Info : 1242 10ML MDL
Misc Info : 1242 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 47
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1242.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

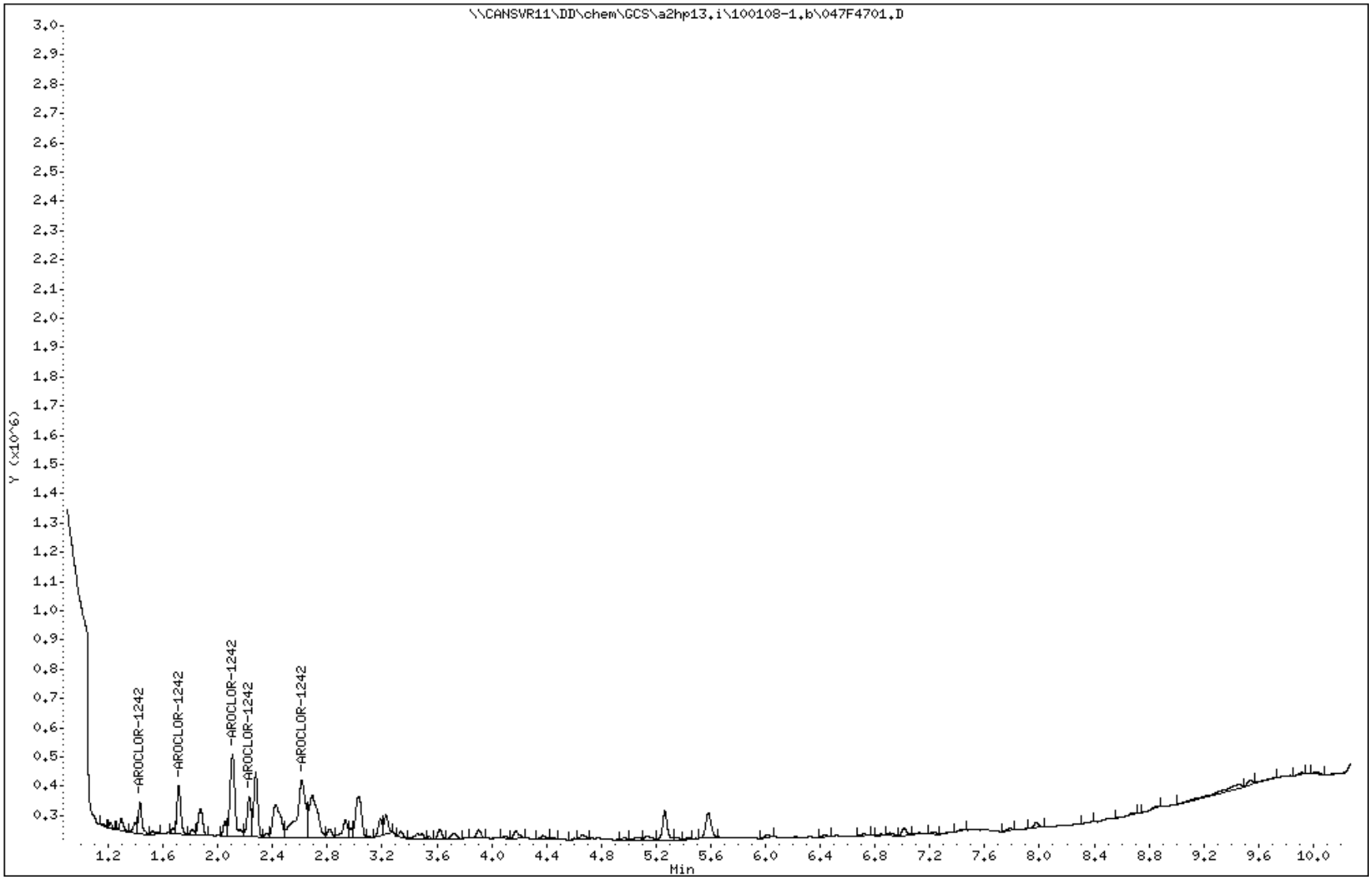
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
5 AROCLOR-1242					CAS #: 53469-21-9		
1.431	1.438	-0.007	196523	0.08635	28.78	80.00- 120.00	100.00(M)
1.713	1.723	-0.010	326347	0.07584	25.28	7.36- 12.27	166.06
2.107	2.116	-0.009	714475	0.08008	26.69	15.62- 26.04	363.56
2.228	2.237	-0.009	281932	0.07443	24.81	6.38- 10.64	143.46
2.618	2.618	0.000	0	0.0000	0.0000	31.19- 51.99	0.00
		Average of Peak Concentrations =			26.39		

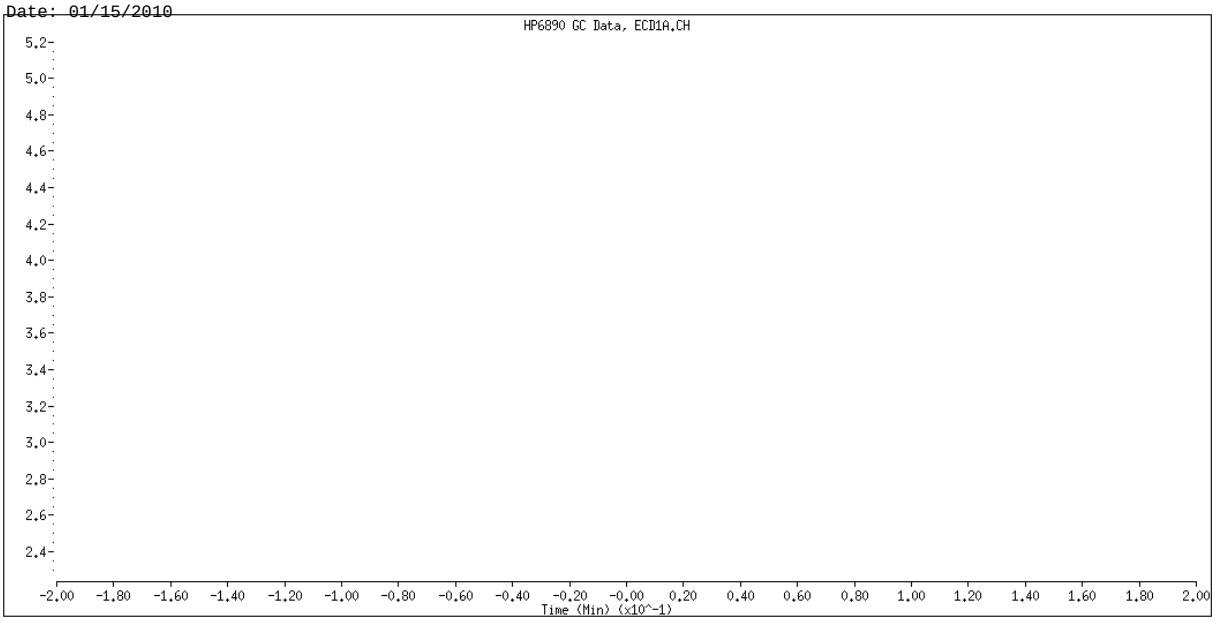
QC Flag Legend

M - Compound response manually integrated.

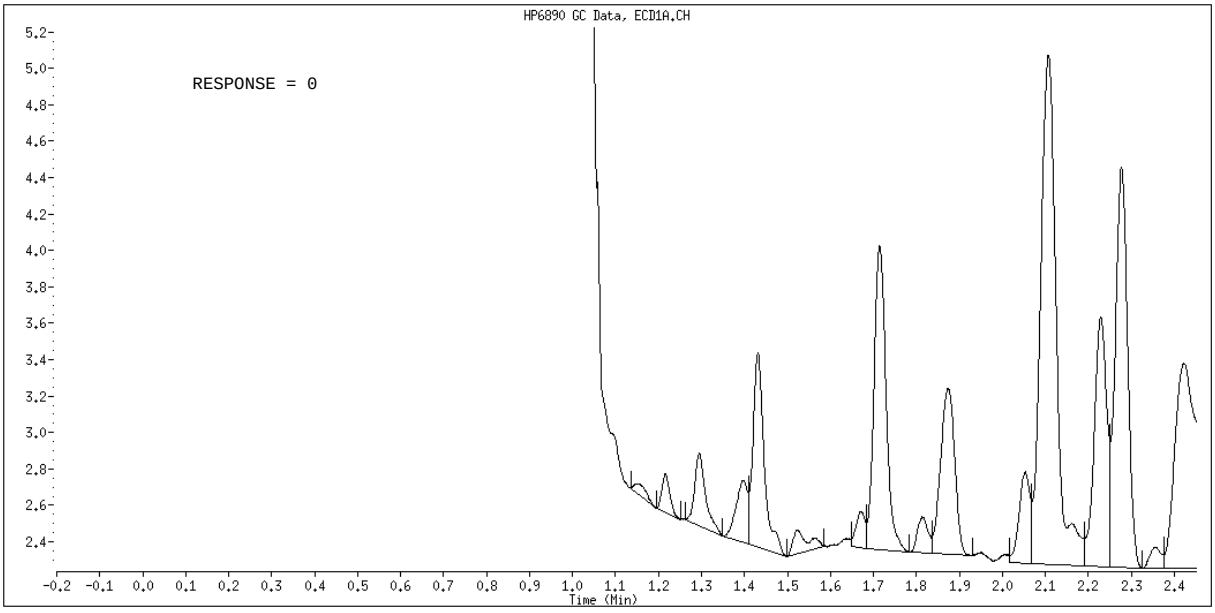
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\047F4701.D
Date : 08-JAN-2010 19:25
Client ID:
Instrument: a2hp13.i
Sample Info: 1242 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 047F4701.D
Inj. Date and Time: 08-JAN-2010 19:25
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1242
CAS #: 53469-21-9
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\049F4901.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\049F4901.D
Lab Smp Id: 2154 10ML MDL
Inj Date : 08-JAN-2010 19:56
Operator : Inst ID: a2hp13.i
Smp Info : 2154 10ML MDL
Misc Info : 2154 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 49
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-AR2154.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

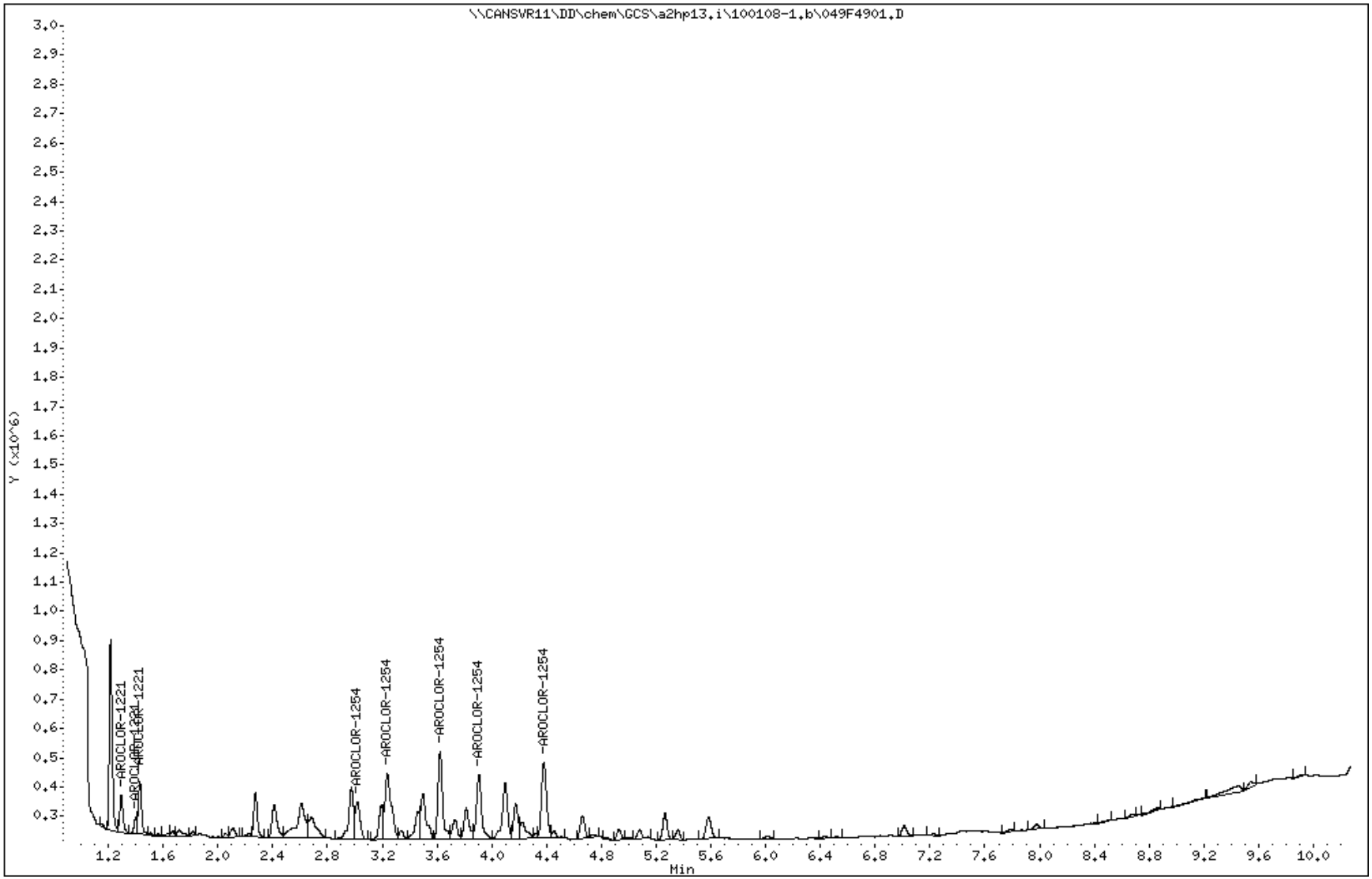
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
7 AROCLOR-1254					CAS #: 11097-69-1		
3.019	3.029	-0.010	129333	0.07972	26.57	80.00- 120.00	100.00
3.237	3.246	-0.009	226411	0.07944	26.48	130.23- 217.05	175.06
3.622	3.631	-0.009	297654	0.07730	25.77	167.10- 278.51	230.15
3.905	3.916	-0.011	219515	0.08025	26.75	132.69- 221.16	169.73
4.379	4.390	-0.011	256616	0.07721	25.74	160.10- 266.84	198.41
Average of Peak Concentrations =					26.26		
2 AROCLOR-1221					CAS #: 11104-28-2		
1.294	1.289	0.005	126392	0.12293	40.98	80.00- 120.00	100.00(M)
1.400	1.397	0.003	56805	0.08340	27.80	81.56- 135.93	44.94
1.430	1.426	0.004	181395	0.07809	26.03	390.89- 651.48	143.52
Average of Peak Concentrations =					31.60		

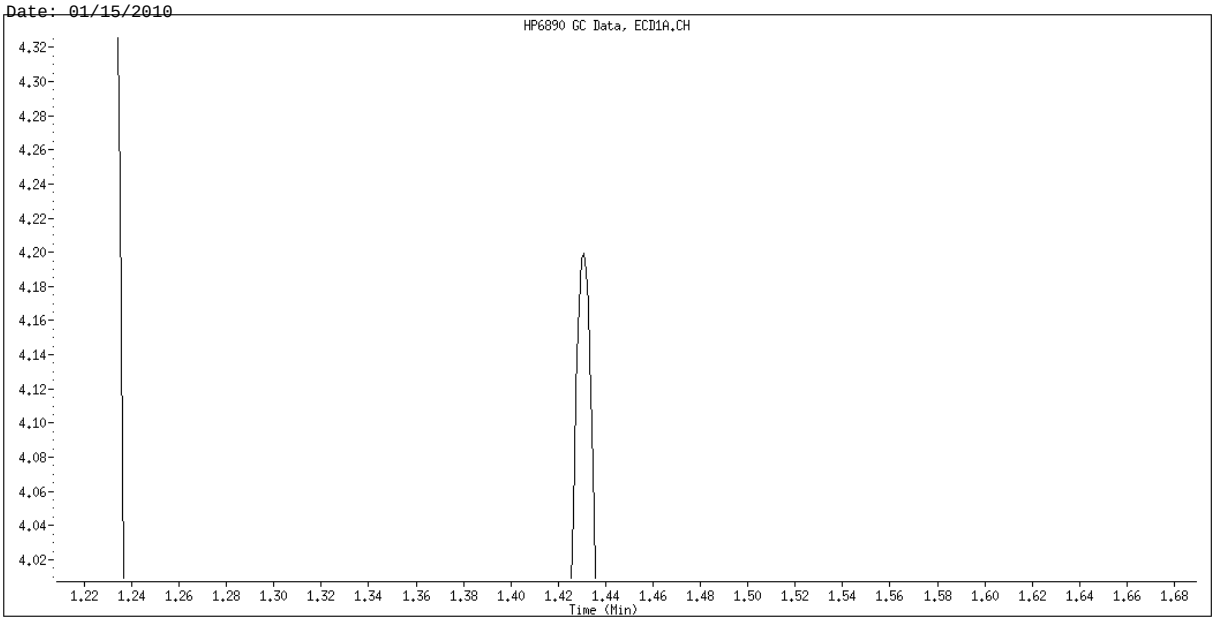
QC Flag Legend

M - Compound response manually integrated.

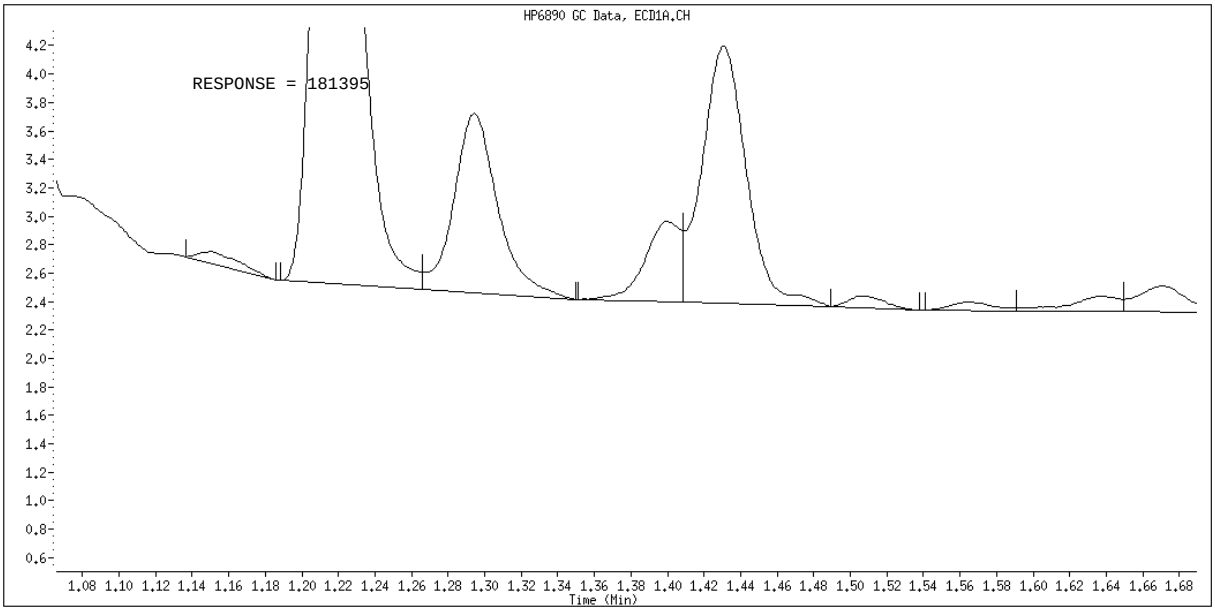
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\049F4901.D
Date : 08-JAN-2010 19:56
Client ID:
Instrument: a2hp13.i
Sample Info: 2154 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 049F4901.D
Inj. Date and Time: 08-JAN-2010 19:56
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1221
CAS #: 11104-28-2
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Lab Smp Id: 1660 10ML MDL
Inj Date : 08-JAN-2010 20:11
Operator : Inst ID: a2hp13.i
Smp Info : 1660 10ML MDL
Misc Info : 1660 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.159	1.160	-0.001	396530	0.00359	1.198		(R)
3 AROCLOR-1016					CAS #: 12674-11-2		
1.430	1.430	0.000	239419	0.08788	29.29	80.00- 120.00	100.00(M)
1.713	1.712	0.001	392740	0.07903	26.34	136.81- 228.02	164.04
2.105	2.106	-0.001	856027	0.08136	27.12	292.74- 487.91	357.54
2.228	2.227	0.001	348417	0.08327	27.76	123.72- 206.19	145.53
2.612	2.609	0.003	0	0.0000	0.0000	115.22- 192.04	0.00
Average of Peak Concentrations =					27.63		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.813	3.813	0.000	221462	0.08071	26.90	80.00- 120.00	100.00
4.100	4.101	-0.001	322082	0.08228	27.42	109.03- 181.71	145.43
4.378	4.378	0.000	292567	0.08137	27.12	101.07- 168.46	132.11
5.079	5.079	0.000	447461	0.08023	26.74	156.54- 260.90	202.05
5.358	5.361	-0.003	231693	0.07837	26.12	81.79- 136.31	104.62
Average of Peak Concentrations =					26.86		

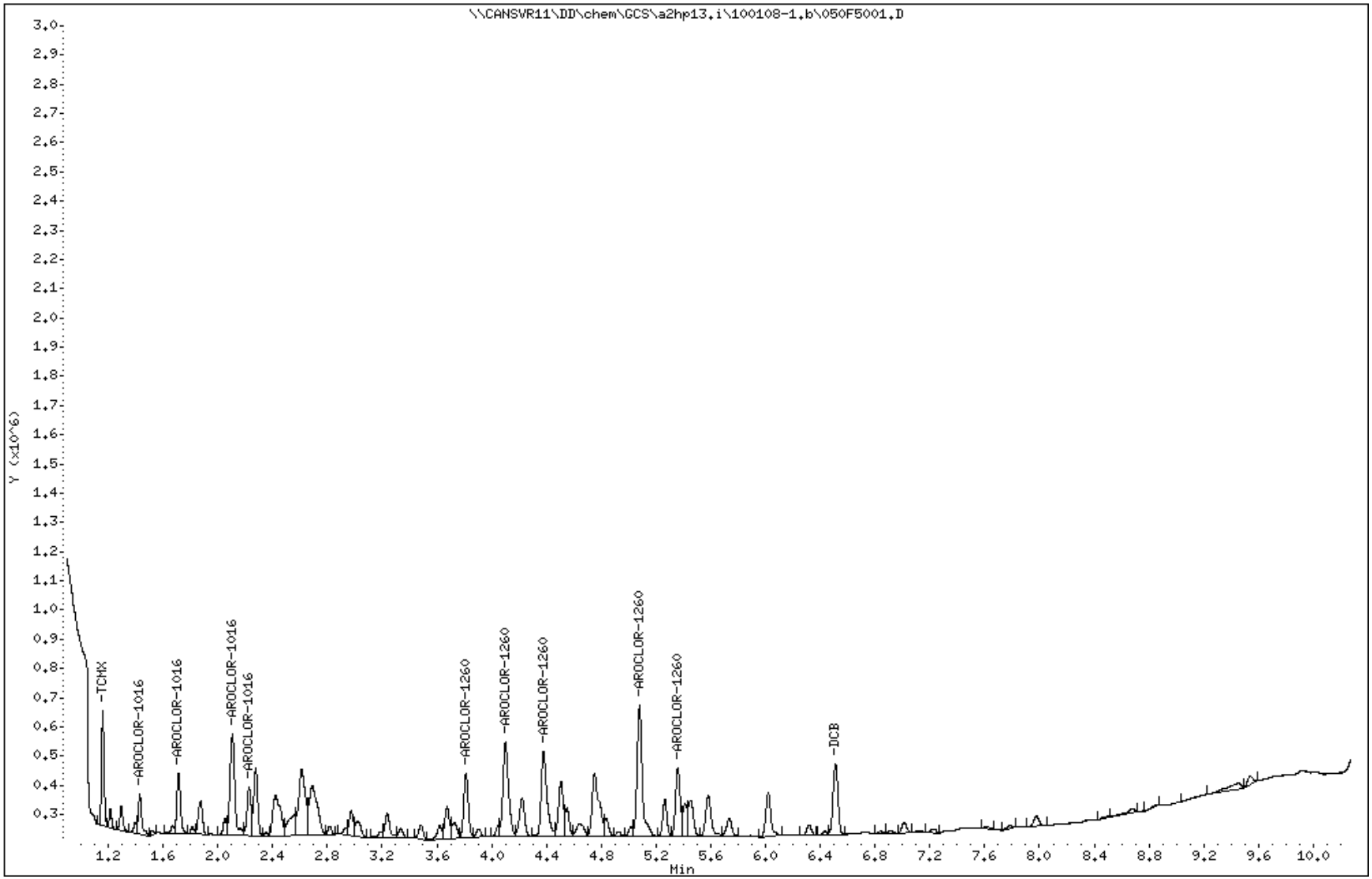
```
$   9 DCB                                       CAS #: 2051-24-3
6.510    6.510    0.000          242613 0.00424    1.413                       (R)
--------------------------------------------------------------------------------
```

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Report Date: 15-Jan-2010 10:04

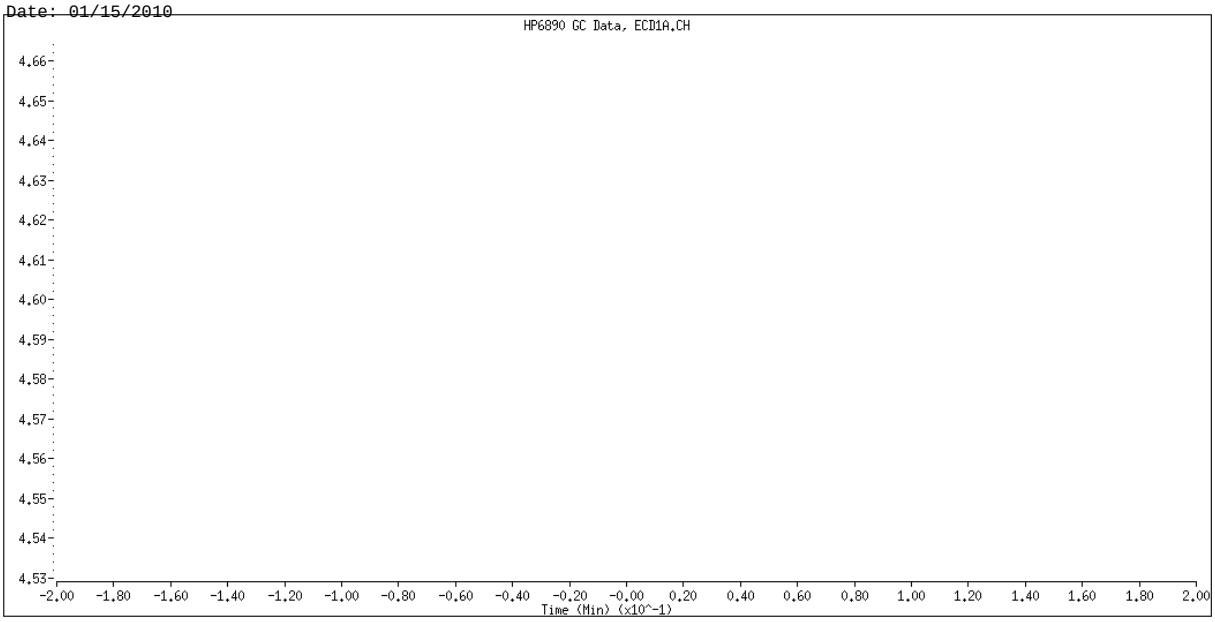
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

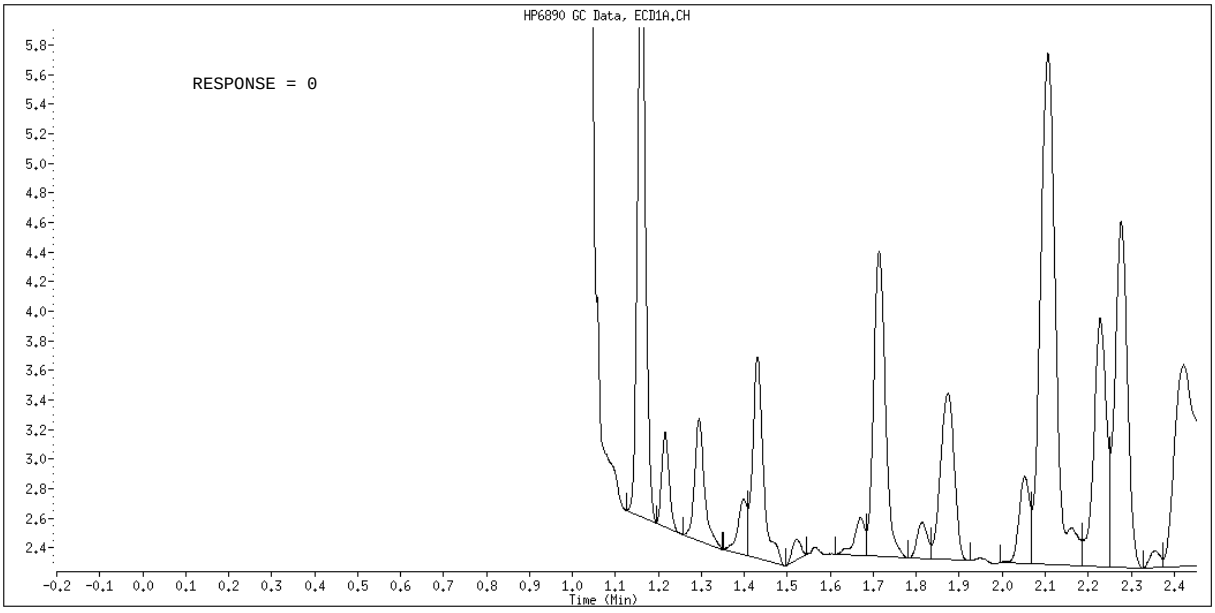
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\050F5001.D
Date : 08-JAN-2010 20:11
Client ID:
Instrument: a2hp13.i
Sample Info: 1660 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 050F5001.D
Inj. Date and Time: 08-JAN-2010 20:11
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 01/15/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Manually Assigned

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\051F5101.D
Report Date: 15-Jan-2010 10:04

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PCB 8082/608

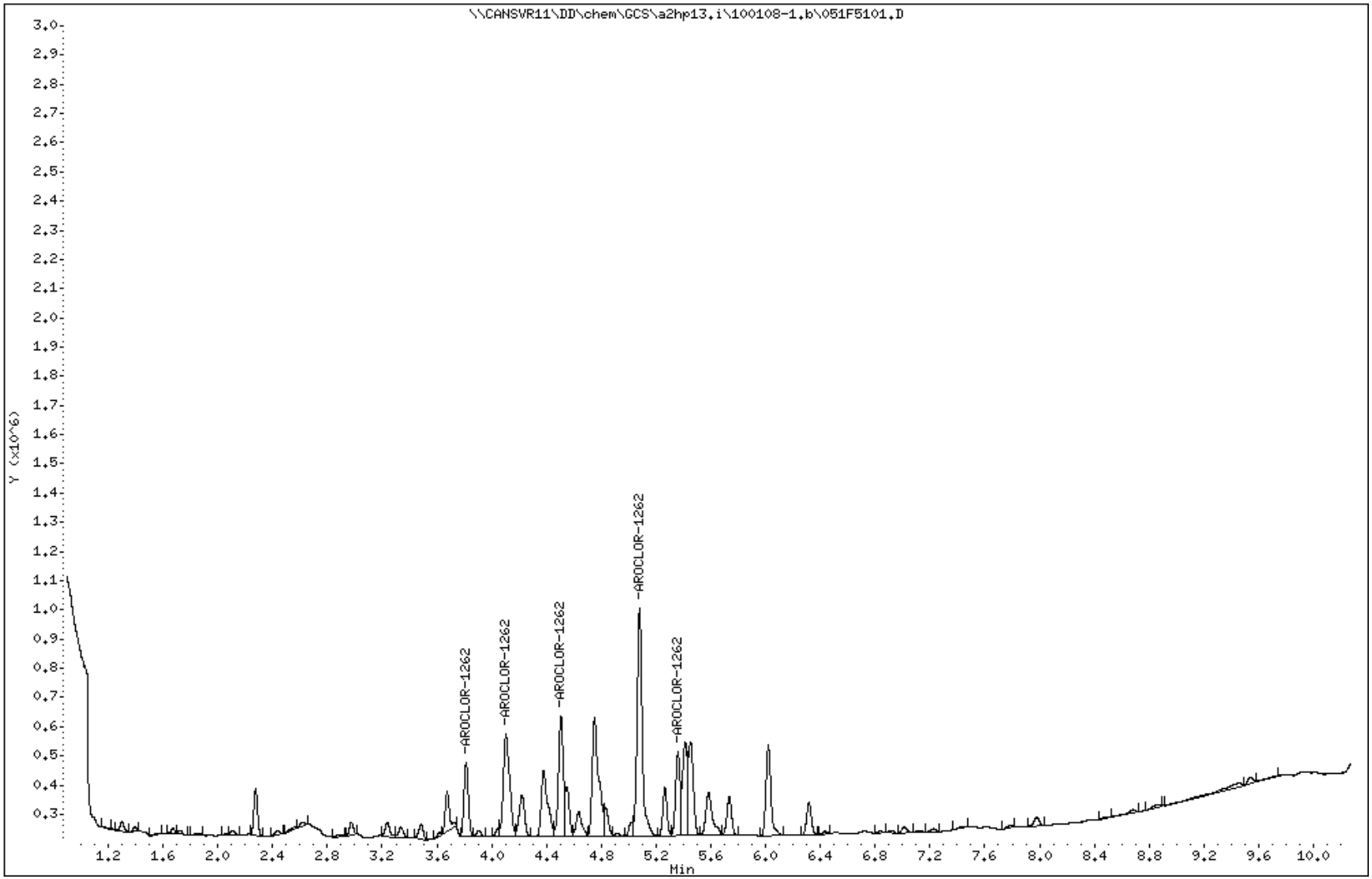
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\051F5101.D
Lab Smp Id: 1262 10ML MDL
Inj Date : 08-JAN-2010 20:25
Operator : Inst ID: a2hp13.i
Smp Info : 1262 10ML MDL
Misc Info : 1262 MDL VERIFICATION 10ML SOLID TV=33UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 13-AR1262.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
13 AROCLOR-1262					CAS #: 37324-23-5		
3.812	3.823	-0.011	252831	0.11788	39.29	80.00- 120.00	100.00
4.103	4.108	-0.005	352323	0.12206	40.69	134.73- 224.56	139.35
4.506	4.466	0.040	410964	0.11973	39.91	19.79- 32.98	162.54
5.078	5.090	-0.012	782198	0.12139	40.46	22.34- 37.24	309.38
5.360	5.371	-0.011	285934	0.10442	34.80	22.90- 38.16	113.09
		Average of Peak Concentrations =			39.03		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\051F5101.D
Date : 08-JAN-2010 20:25
Client ID:
Instrument: a2hp13.i
Sample Info: 1262 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\052F5201.D
Report Date: 15-Jan-2010 10:04

TestAmerica North Canton

PCB 8082/608

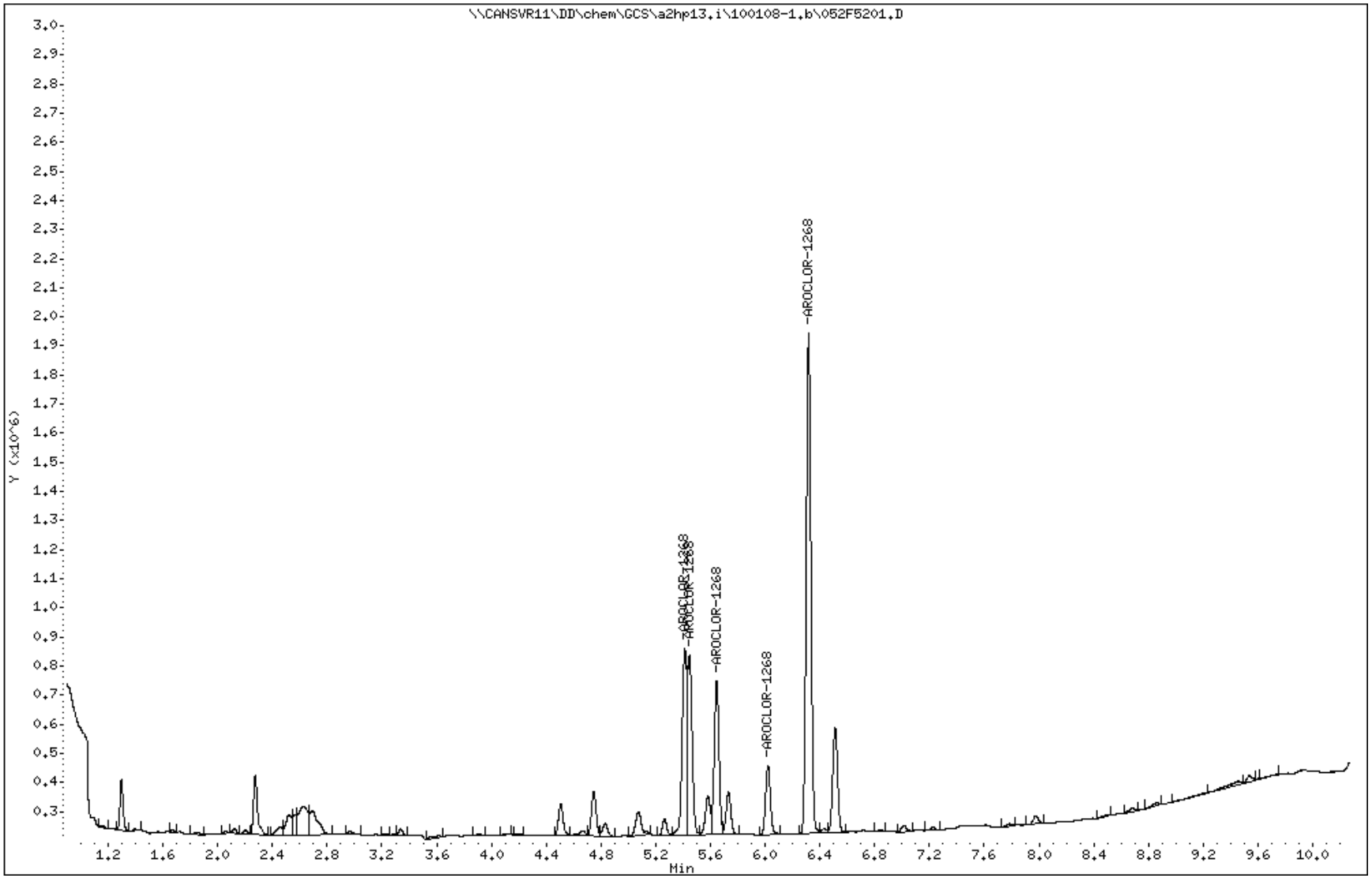
Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\052F5201.D
Lab Smp Id: 1268 10ML MDL
Inj Date : 08-JAN-2010 20:40
Operator : Inst ID: a2hp13.i
Smp Info : 1268 10ML MDL
Misc Info : 1268 MDL VERIFICATION 10ML SOLID TV=24.75UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 52
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 14-AR1268.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
14 AROCLOR-1268					CAS #: 11100-14-4		
5.411	5.404	0.007	640686	0.07523	25.08	80.00- 120.00	100.00
5.446	5.445	0.001	619856	0.07705	25.68	79.82- 133.03	96.75
5.646	5.638	0.008	526758	0.07746	25.82	3.44- 5.74	82.22
6.021	6.014	0.007	238506	0.08326	27.75	80.73- 134.55	37.23
6.316	6.309	0.007	1720021	0.08044	26.81	21.06- 35.09	268.47
		Average of Peak Concentrations =			26.23		

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\052F5201.D
Date : 08-JAN-2010 20:40
Client ID:
Instrument: a2hp13.i
Sample Info: 1268 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Report Date: 15-Jan-2010 10:05

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PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Lab Smp Id: BLANK 10ML MDL
Inj Date : 08-JAN-2010 20:56
Operator : Inst ID: a2hp13.i
Smp Info : BLANK 10ML MDL
Misc Info : BLANK MDL VERIFICATION 10ML SOLID
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\PCB13.m
Meth Date : 11-Jan-2010 11:09 roachc Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 53
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.169	1.160	0.009	7327	7e-005	0.02214		(R)
2 AROCLOR-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016					CAS #: 12674-11-2		

Compound Not Detected

4 AROCLOR-1232					CAS #: 11141-16-5		

Compound Not Detected

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Report Date: 15-Jan-2010 10:05

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

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6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

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7 AROCLOR-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

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8 AROCLOR-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

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13 AROCLOR-1262 CAS #: 37324-23-5

Peaks not detected for Quant. or Qual. signal(s).

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14 AROCLOR-1268 CAS #: 11100-14-4

Peaks not detected for Quant. or Qual. signal(s).

M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

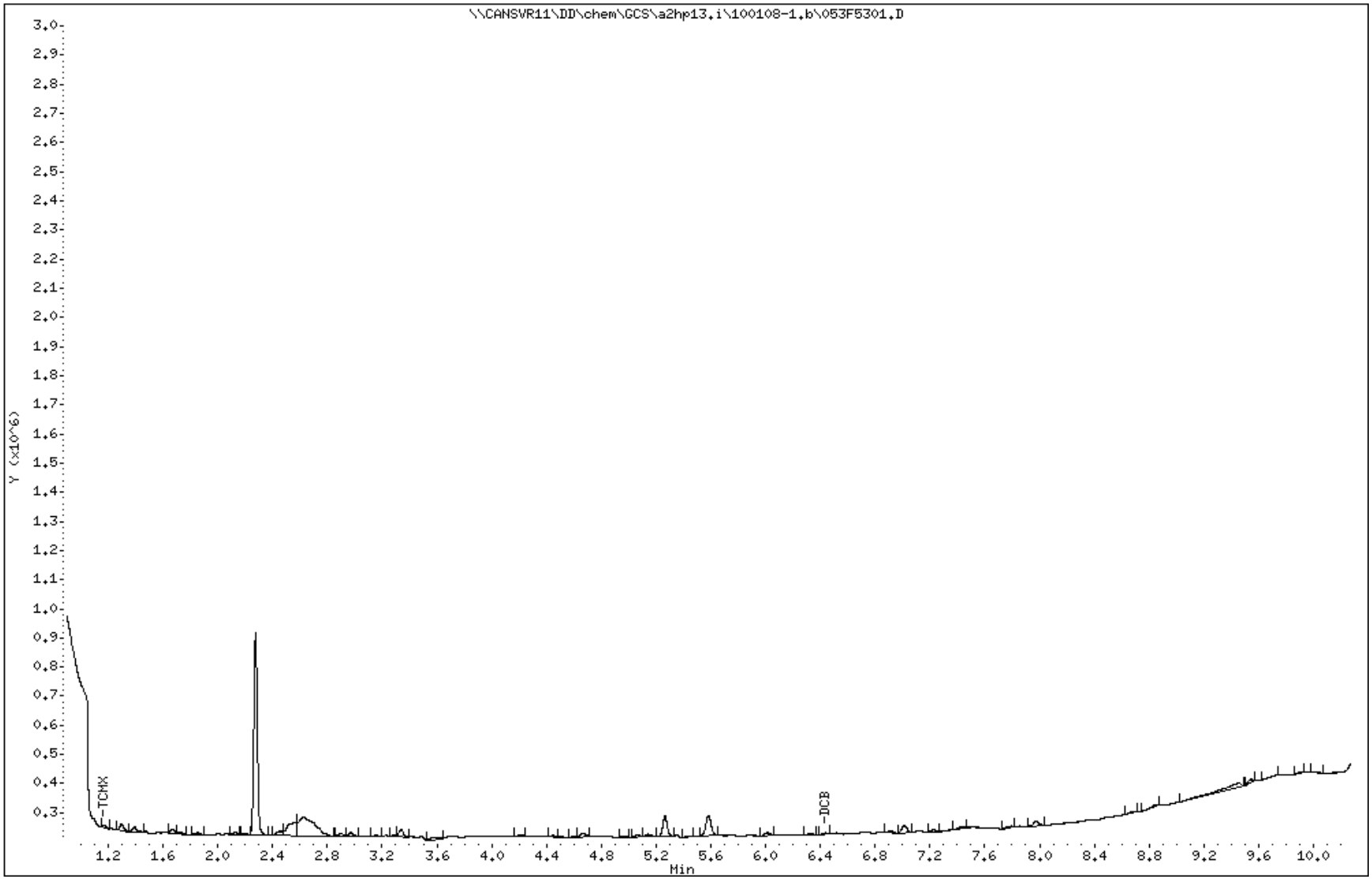
$ 9 DCB CAS #: 2051-24-3

6.436	6.510	-0.074	5218	9e-005	0.03039		(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100108-1.b\053F5301.D
Date : 08-JAN-2010 20:56
Client ID:
Instrument: a2hp13.i
Sample Info: BLANK 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\007F0701.D
Report Date: 18-Jan-2010 08:56

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\007F0701.D
Lab Smp Id: 1248 10ML MDL
Inj Date : 18-JAN-2010 08:23
Operator : Inst ID: a2hp13.i
Smp Info : 1248 10ML MDL
Misc Info : 1248 MDL VERIFICATION 10ML SOLID TV=24.75 UG/KG
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\PCB13.m
Meth Date : 18-Jan-2010 08:15 Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1248.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

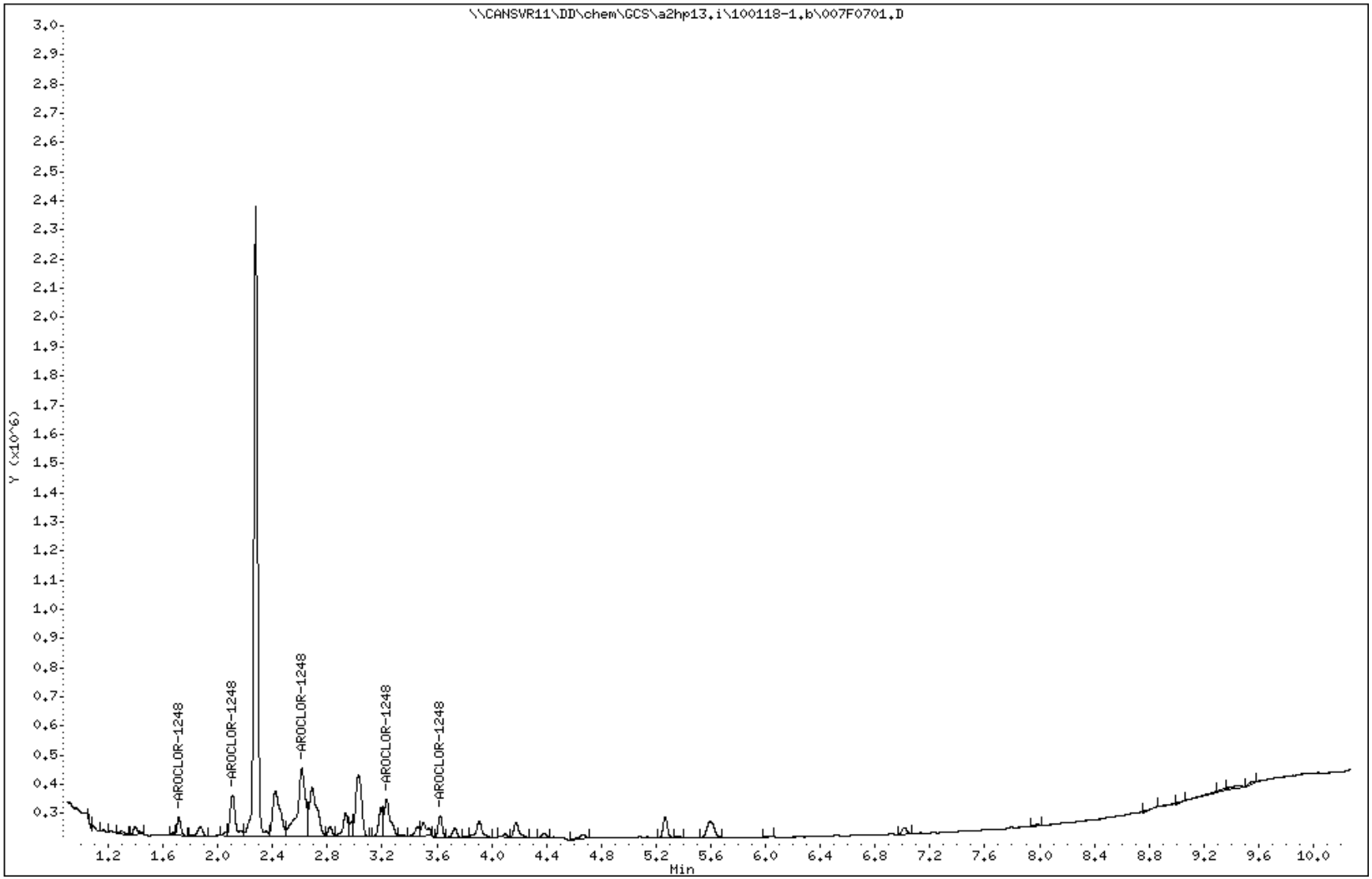
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

				CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
6 AROCLOR-1248					CAS #: 12672-29-6		
1.714	1.722	-0.008	60906	0.05552	18.51	80.00- 120.00	100.00(M)
2.107	2.116	-0.009	140523	0.06078	20.26	117.36- 195.60	230.72
2.612	2.617	-0.005	230617	0.09679	32.26	289.59- 482.65	378.64
3.232	3.246	-0.014	128809	0.06822	22.74	981.77-1636.28	211.49
3.623	3.631	-0.008	73593	0.06068	20.23	1374.25-2290.42	120.83
Average of Peak Concentrations =					22.80		

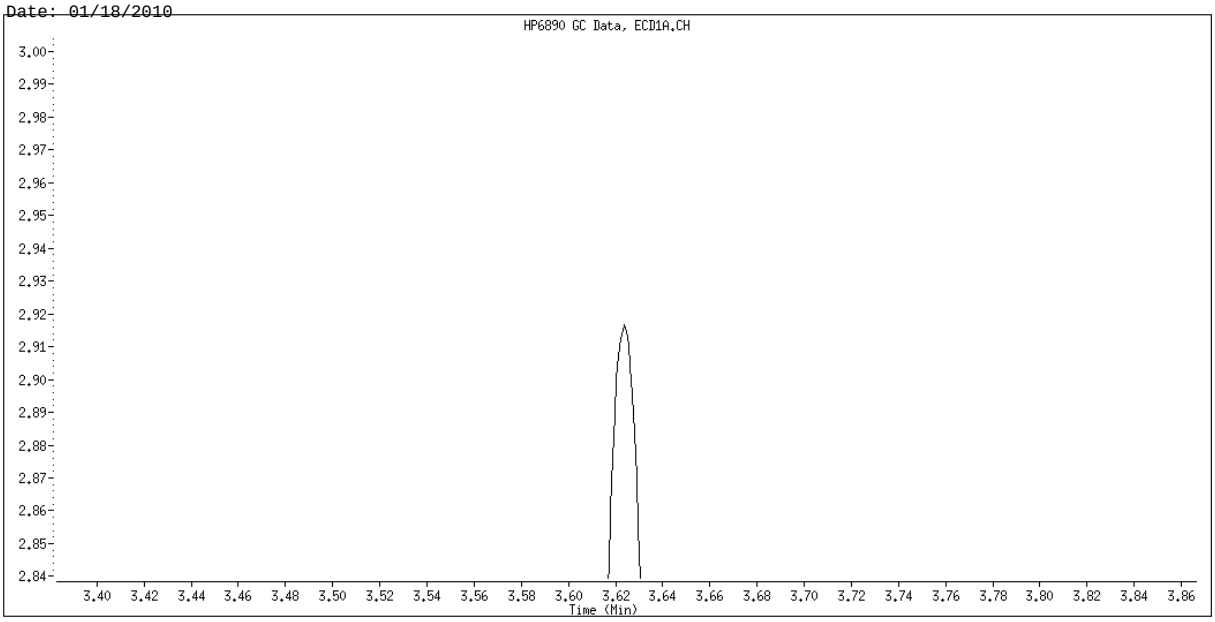
QC Flag Legend

M - Compound response manually integrated.

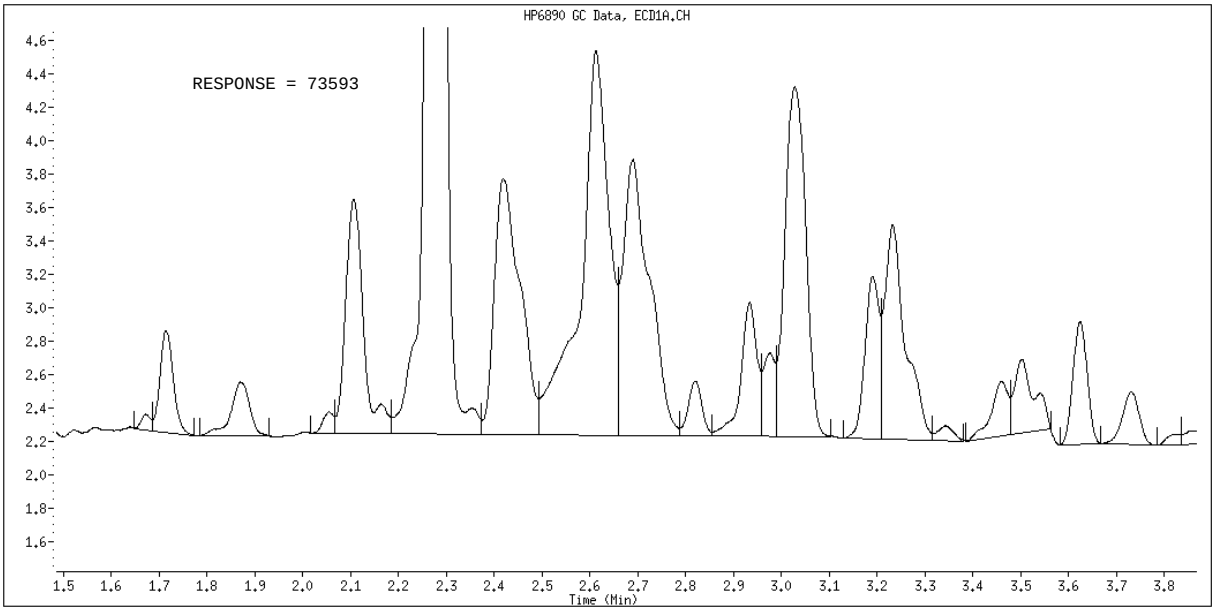
Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\007F0701.D
Date : 18-JAN-2010 08:23
Client ID:
Instrument: a2hp13.i
Sample Info: 1248 10ML MDL
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 007F0701.D
Inj. Date and Time: 18-JAN-2010 08:23
Instrument ID: a2hp13.i
Client ID:
Compound Name: AROCLOR-1248
CAS #: 12672-29-6
Report Date: 01/18/2010



Original Integration



Manual Integration

Manually Integrated By: hassl
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Report Date: 18-Jan-2010 08:57

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Lab Smp Id: BLANK 10ML
Inj Date : 18-JAN-2010 08:38
Operator : Inst ID: a2hp13.i
Smp Info : BLANK 10ML
Misc Info : BLANK MDL VERIFICATION 10ML SOLID
Comment :
Method : \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\PCB13.m
Meth Date : 18-Jan-2010 08:15 Quant Type: ESTD
Cal Date : 05-JAN-2010 01:19 Cal File: 043F4301.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPMSV21

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.085	1.151	-0.066	30942	0.00028	0.09350		(R)
2 AROCLOR-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Report Date: 18-Jan-2010 08:57

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

---

6 AROCLOR-1248 CAS #: 12672-29-6

Compound Not Detected

---

7 AROCLOR-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

8 AROCLOR-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

13 AROCLOR-1262 CAS #: 37324-23-5

Peaks not detected for Quant. or Qual. signal(s).

---

14 AROCLOR-1268 CAS #: 11100-14-4

Peaks not detected for Quant. or Qual. signal(s).

M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

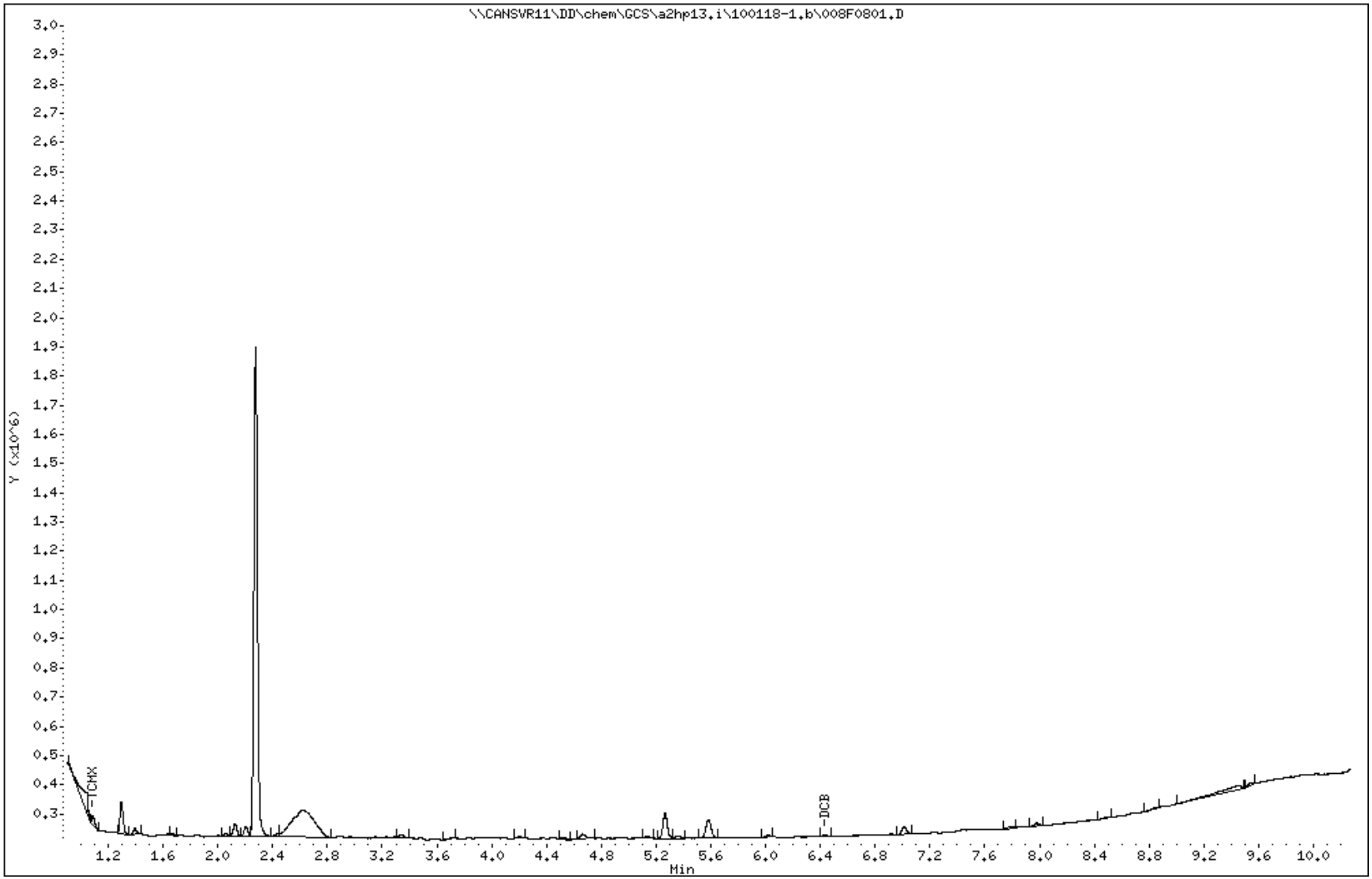
$ 9 DCB CAS #: 2051-24-3

6.439 6.504 -0.065 4429 8e-005 0.02580 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\CANSVR11\DD\chem\GCS\a2hp13.i\100118-1.b\008F0801.D
Date : 18-JAN-2010 08:38
Client ID:
Instrument: a2hp13.i
Sample Info: BLANK 10ML
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-036
Prep Date.....: 03/02/10 **Analysis Date..:** 03/05/10
Prep Batch #...: 0060036
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**80**	**(40 - 140)**	**SW846 8082**
Aroclor 1260	**85**	**(60 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	94	(40 - 140)
Decachlorobiphenyl	104	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0C010000-036
Prep Date.....: 03/02/10 **Analysis Date..:** 03/05/10
Prep Batch #...: 0060036
Dilution Factor: 1 **Final Wgt/Vol..:** 10 mL
Initial Wgt/Vol: 30 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**330**	**270**	**ug/kg**	**80**	**SW846 8082**
Aroclor 1260	**330**	**280**	**ug/kg**	**85**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	94	(40 - 140)
Decachlorobiphenyl	104	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\039F3901.D
Lab Smp Id: LV6AQ1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 05-MAR-2010 16:24
Operator : Inst ID: a2hp13.i
Smp Info : LV6AQ1AC
Misc Info : 12-AR1660TD.SUB,SLCS.SPK
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 19:31 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 39 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANPGCSV21

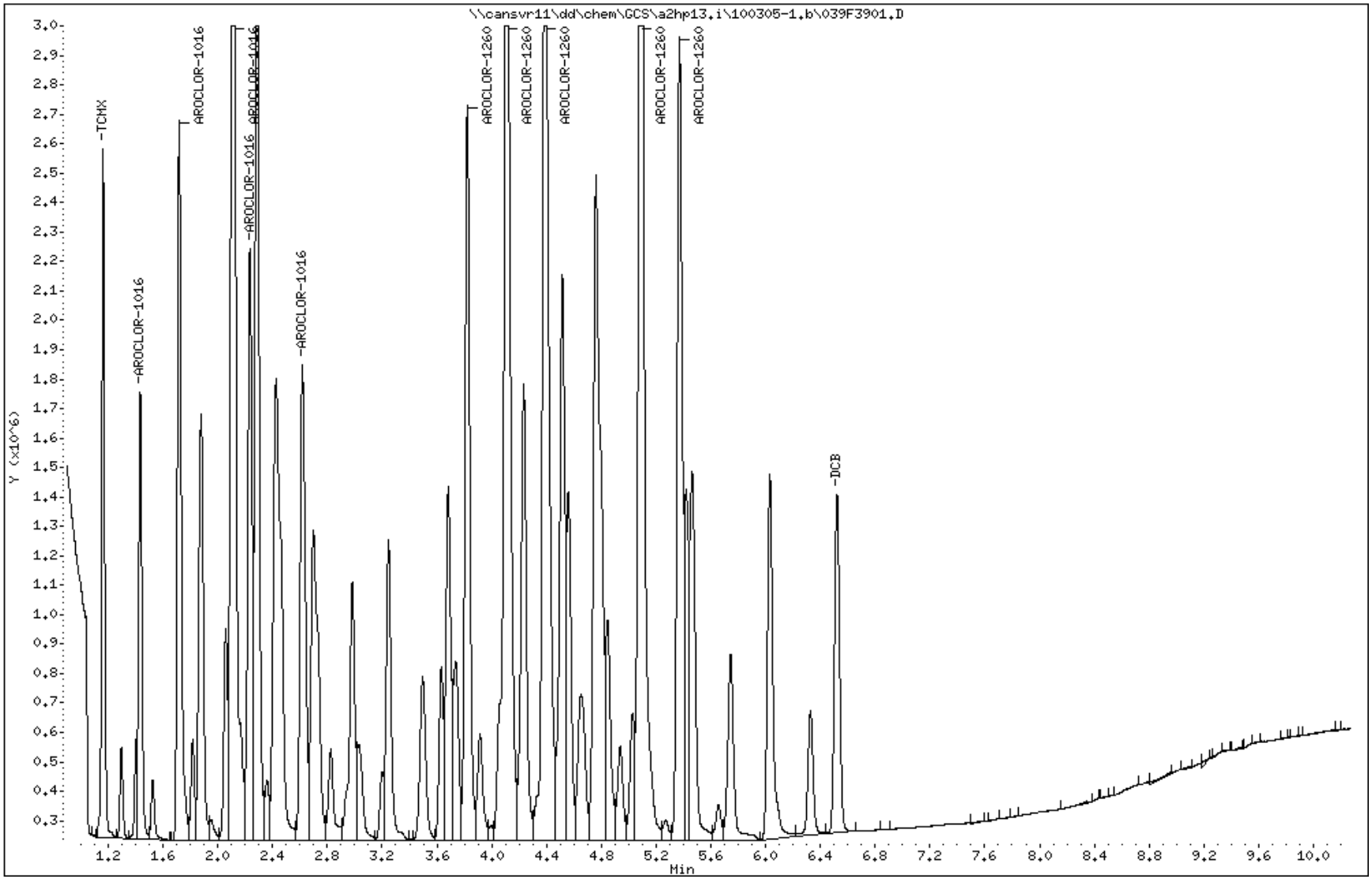
Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.162	0.000	2339244	0.01883	6.276		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.433	1.434	-0.001	2554794	0.71835	239.4	80.00- 120.00	100.00
1.717	1.717	0.000	4939658	0.80262	267.5	132.36- 220.61	193.35
2.112	2.112	0.000	11088241	0.85433	284.8	289.64- 482.73	434.02
2.233	2.234	-0.001	4302273	0.80779	269.3	110.27- 183.79	168.40
2.617	2.617	0.000	4308822	0.81245	270.8	117.11- 195.18	168.66
Average of Peak Concentrations =					266.4		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.821	3.821	0.000	2496760	0.82720	275.7	80.00- 120.00	100.00
4.110	4.112	-0.002	3606703	0.85336	284.4	105.08- 175.13	144.46
4.389	4.390	-0.001	3619603	0.93995	313.3	95.98- 159.96	144.97
5.090	5.090	0.000	4398926	0.76406	254.7	148.63- 247.72	176.19
5.372	5.371	0.001	2727763	0.88955	296.5	77.23- 128.71	109.25
Average of Peak Concentrations =					284.9		

```
$   9 DCB                                       CAS #: 2051-24-3
6.521    6.520    0.001         1148760 0.02071    6.903
--------------------------------------------------------------------------------
```

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\039F3901.D
Date : 05-MAR-2010 16:24
Client ID: INTRA-LAB CHECK
Instrument: a2hp13.i
Sample Info: LV6AQ1AC
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV6AQ1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0C010000-036

Prep Date.....: 03/02/10 **Final Wgt/Vol..:** 10 mL
Analysis Date..: 03/05/10 **Prep Batch #...:** 0060036
Dilution Factor: 1 **Initial Wgt/Vol:** 30 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(40 - 140)
Decachlorobiphenyl	89	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica North Canton

PCB 8082/608

Data file : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\031F3101.D
Lab Smp Id: LV6AQ1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 05-MAR-2010 14:26
Operator : Inst ID: a2hp13.i
Smp Info : LV6AQ1AA
Misc Info :
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 13:19 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 31 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.000	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.165	-0.003	2056879	0.01656	5.519		

2 AROCLOR-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

3 AROCLOR-1016 CAS #: 12674-11-2

Compound Not Detected

4 AROCLOR-1232 CAS #: 11141-16-5

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO

5 AROCLOR-1242 CAS #: 53469-21-9

Compound Not Detected

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6 AROCLOR-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 AROCLOR-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

8 AROCLOR-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

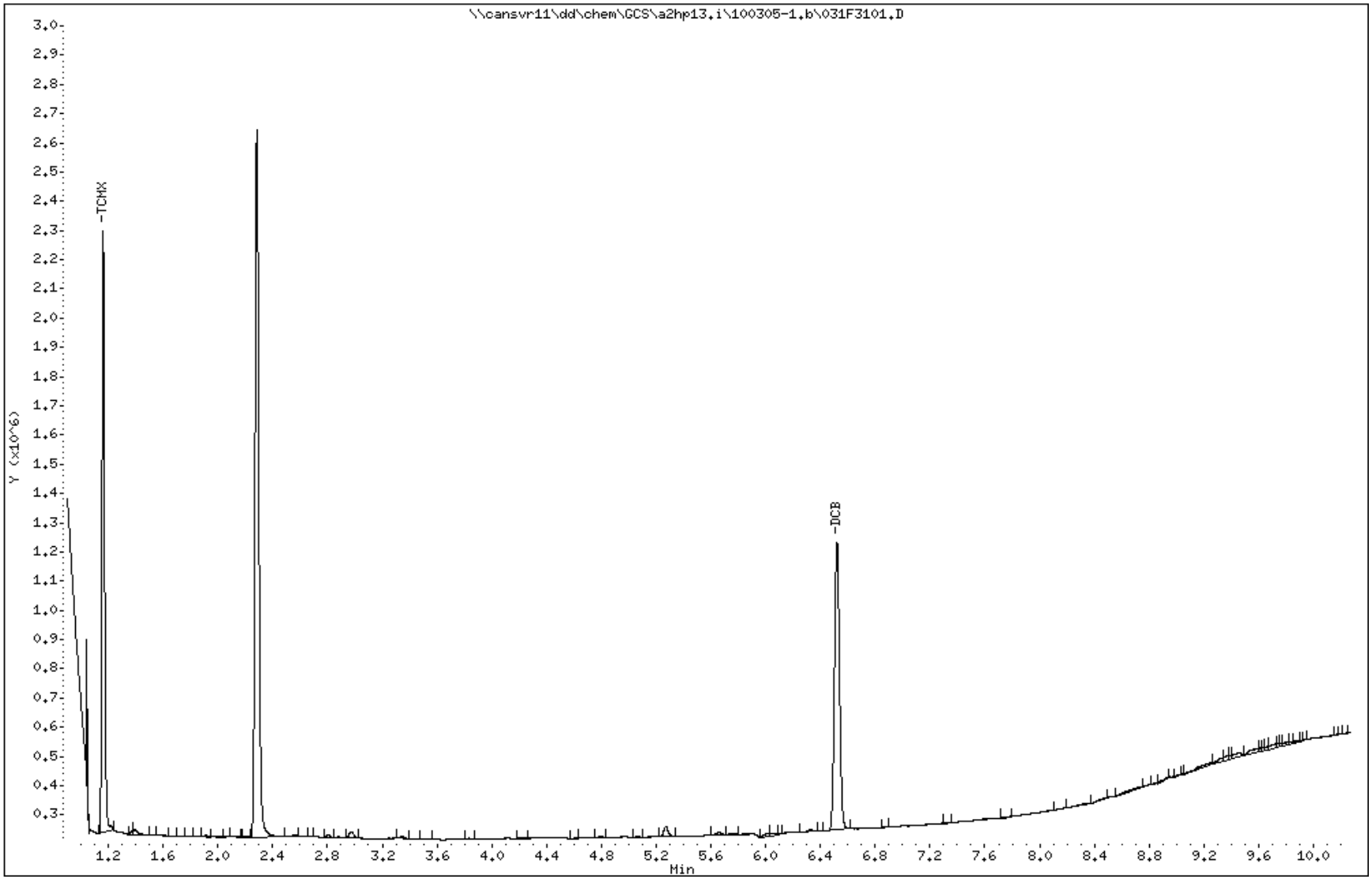
M 15 TOTAL PCB CAS #: 1336-36-3

Compound Not Detected

$ 9 DCB CAS #: 2051-24-3

6.520 6.521 -0.001 984707 0.01775 5.917

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\031F3101.D
Date : 05-MAR-2010 14:26
Client ID: INTRA-LAB BLANK
Instrument: a2hp13.i
Sample Info: LV6AQ1AA
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3KR1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-005 LV3KR1CD-MSD
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
Prep Date.....: 03/02/10 **Analysis Date..:** 03/05/10
Prep Batch #...: 0060036
Dilution Factor: 1 **Initial Wgt/Vol:** 30.12 g **Final Wgt/Vol..:** 10 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**58**	**(40 - 140)**			**SW846 8082**
	69	**(40 - 140)**	**17**	**(0-39)**	**SW846 8082**
Aroclor 1260	**62**	**(60 - 130)**			**SW846 8082**
	78	**(60 - 130)**	**24**	**(0-33)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	61	(40 - 140)
	73	(40 - 140)
Decachlorobiphenyl	73	(60 - 125)
	96	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A0B250463 **Work Order #...:** LV3KR1CC-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-005 LV3KR1CD-MSD
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
Prep Date.....: 03/02/10 **Analysis Date..:** 03/05/10
Prep Batch #...: 0060036
Dilution Factor: 1 **Initial Wgt/Vol:** 30.12 g **Final Wgt/Vol..:** 10 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**350**	**200**	**ug/kg**	**58**		**SW846 8082**
	ND	**350**	**240**	**ug/kg**	**69**	**17**	**SW846 8082**
Aroclor 1260	**ND**	**350**	**210**	**ug/kg**	**62**		**SW846 8082**
	ND	**350**	**270**	**ug/kg**	**78**	**24**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	61	(40 - 140)
	73	(40 - 140)
Decachlorobiphenyl	73	(60 - 125)
	96	(60 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\029F2901.D
Report Date: 08-Mar-2010 10:49

TestAmerica North Canton

PCB 8082/608

Data file : \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\029F2901.D
Lab Smp Id: LV3KR1CC Client Smp ID: ATASB-008-5134-SO
Inj Date : 05-MAR-2010 13:56
Operator : Inst ID: a2hp13.i
Smp Info : LV3KR1CC
Misc Info : 12-AR1660TD.SUB,SMS.SPK
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 19:31 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 29 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.120	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.163	1.162	0.001	1527813	0.01230	4.083		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.435	1.434	0.001	1876916	0.52774	175.2	80.00- 120.00	100.00(M)
1.719	1.717	0.002	3641895	0.59175	196.5	132.36- 220.61	194.04
2.114	2.112	0.002	8211808	0.63271	210.1	289.64- 482.73	437.52
2.235	2.234	0.001	3131746	0.58801	195.2	110.27- 183.79	166.86
2.617	2.617	0.000	3053380	0.57573	191.1	117.11- 195.18	162.68
Average of Peak Concentrations =					193.6		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.822	3.821	0.001	1795078	0.59473	197.4	80.00- 120.00	100.00
4.112	4.112	0.000	2612114	0.61803	205.2	105.08- 175.13	145.52
4.389	4.390	-0.001	2579713	0.66991	222.4	95.98- 159.96	143.71
5.090	5.090	0.000	3287339	0.57098	189.6	148.63- 247.72	183.13
5.371	5.371	0.000	1906131	0.62161	206.4	77.23- 128.71	106.19
Average of Peak Concentrations =					204.2		

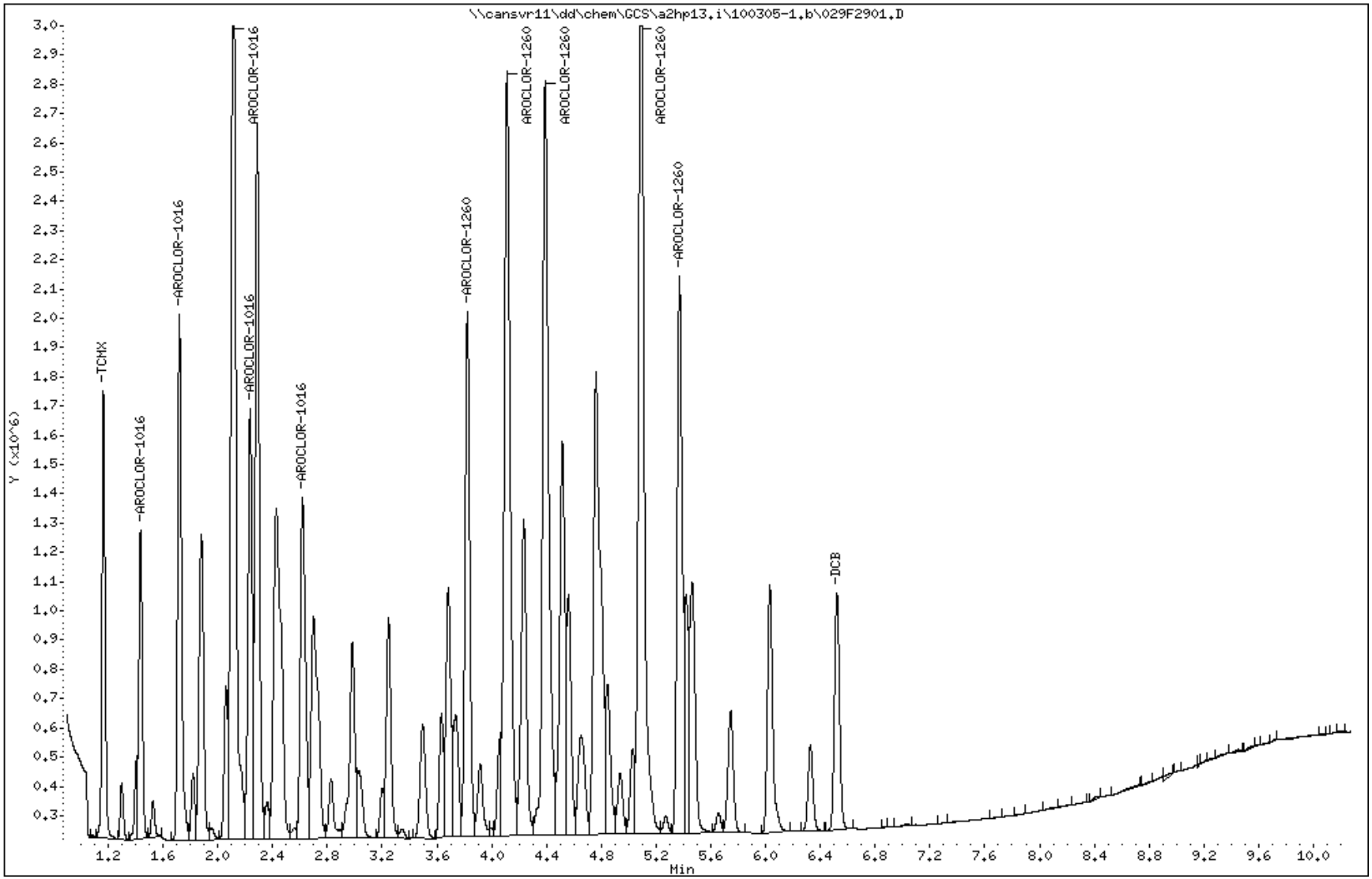
```
$   9 DCB                                       CAS #: 2051-24-3
6.521    6.520    0.001          808237 0.01457    4.837                        (R)
-------------------------------------------------------------------------------
```

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\029F2901.D
Report Date: 08-Mar-2010 10:49

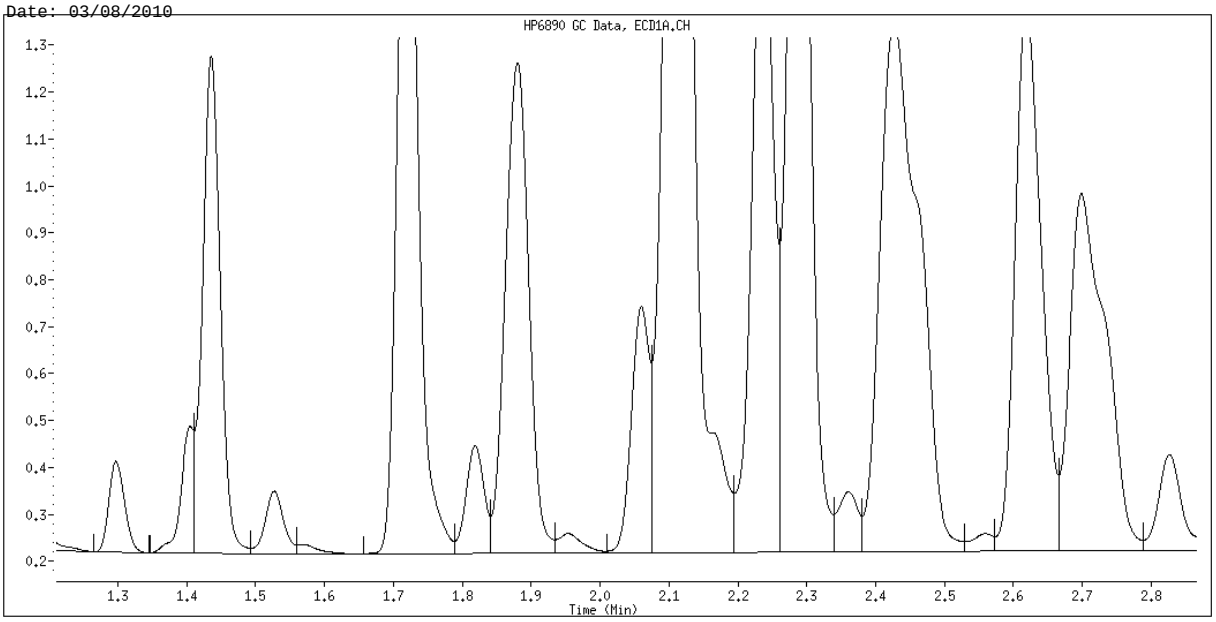
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

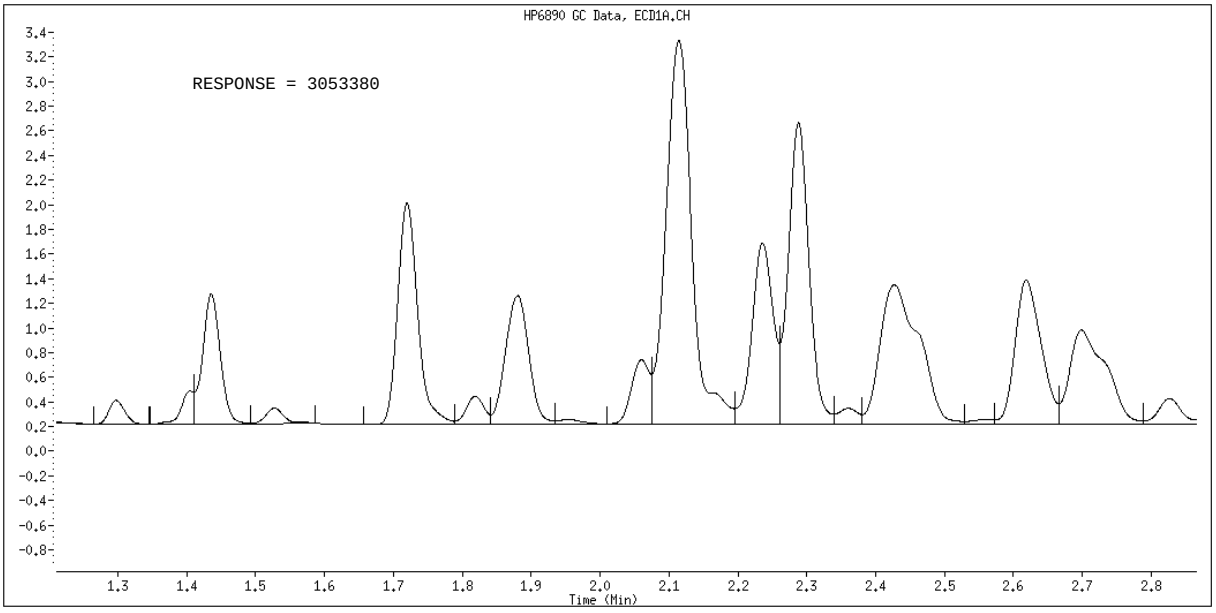
Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\029F2901.D
Date : 05-MAR-2010 13:56
Client ID: ATASB-008-5134-SO
Instrument: a2hp13.i
Sample Info: LV3KR1CC
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 029F2901.D
Inj. Date and Time: 05-MAR-2010 13:56
Instrument ID: a2hp13.i
Client ID: ATASB-008-5134-SO
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/08/2010



Original Integration



Manual Integration

Manually Integrated By: bolgrind
Manual Integration Reason: Analyte not Identified by the Data System

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\030F3001.D
Report Date: 08-Mar-2010 10:50

TestAmerica North Canton

PCB 8082/608

Data file : \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\030F3001.D
Lab Smp Id: LV3KR1CD Client Smp ID: ATASB-008-5134-SO
Inj Date : 05-MAR-2010 14:11
Operator : Inst ID: a2hp13.i
Smp Info : LV3KR1CD
Misc Info : 12-AR1660TD.SUB,SMS.SPK
Comment :
Method : \\CANSVR11\dd\chem\GCS\a2hp13.i\100305-1.b\PCB13.m
Meth Date : 05-Mar-2010 19:31 hassl Quant Type: ESTD
Cal Date : 09-FEB-2010 02:07 Cal File: 042F4201.D
Als bottle: 30 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 12-AR1660TD.SUB
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	final volume
Vo	30.030	initial volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/kg)	TARGET RANGE	RATIO
$ 1 TCMX					CAS #: 877-09-8		
1.162	1.162	0.000	1821007	0.01466	4.881		
3 AROCLOR-1016					CAS #: 12674-11-2		
1.434	1.434	0.000	2127786	0.59828	199.2	80.00- 120.00	100.00(M)
1.717	1.717	0.000	4294974	0.69787	232.4	132.36- 220.61	201.85
2.112	2.112	0.000	9641350	0.74285	247.4	289.64- 482.73	453.12
2.235	2.234	0.001	3758024	0.70560	235.0	110.27- 183.79	176.62
2.617	2.617	0.000	3644779	0.68724	228.8	117.11- 195.18	171.29
		Average of Peak Concentrations =			228.6		
8 AROCLOR-1260					CAS #: 11096-82-5		
3.821	3.821	0.000	2215613	0.73405	244.4	80.00- 120.00	100.00
4.111	4.112	-0.001	3250572	0.76910	256.1	105.08- 175.13	146.71
4.390	4.390	0.000	3249487	0.84384	281.0	95.98- 159.96	146.66
5.090	5.090	0.000	4182709	0.72650	241.9	148.63- 247.72	188.78
5.371	5.371	0.000	2495213	0.81371	271.0	77.23- 128.71	112.62
		Average of Peak Concentrations =			258.9		

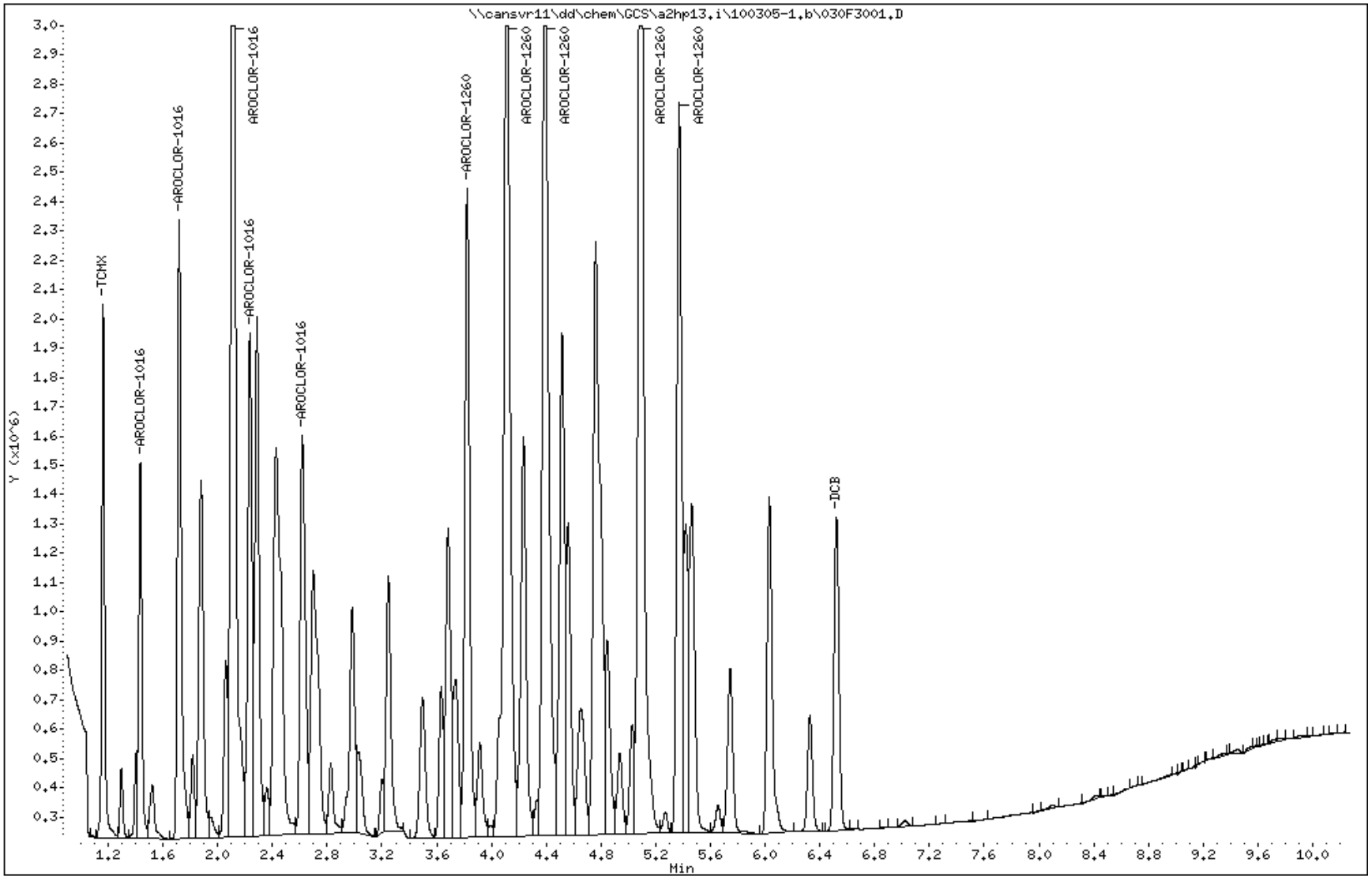
```
$   9 DCB                                       CAS #: 2051-24-3
6.521    6.520    0.001         1068414 0.01926    6.414
--------------------------------------------------------------------------------
```

Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\030F3001.D
Report Date: 08-Mar-2010 10:50

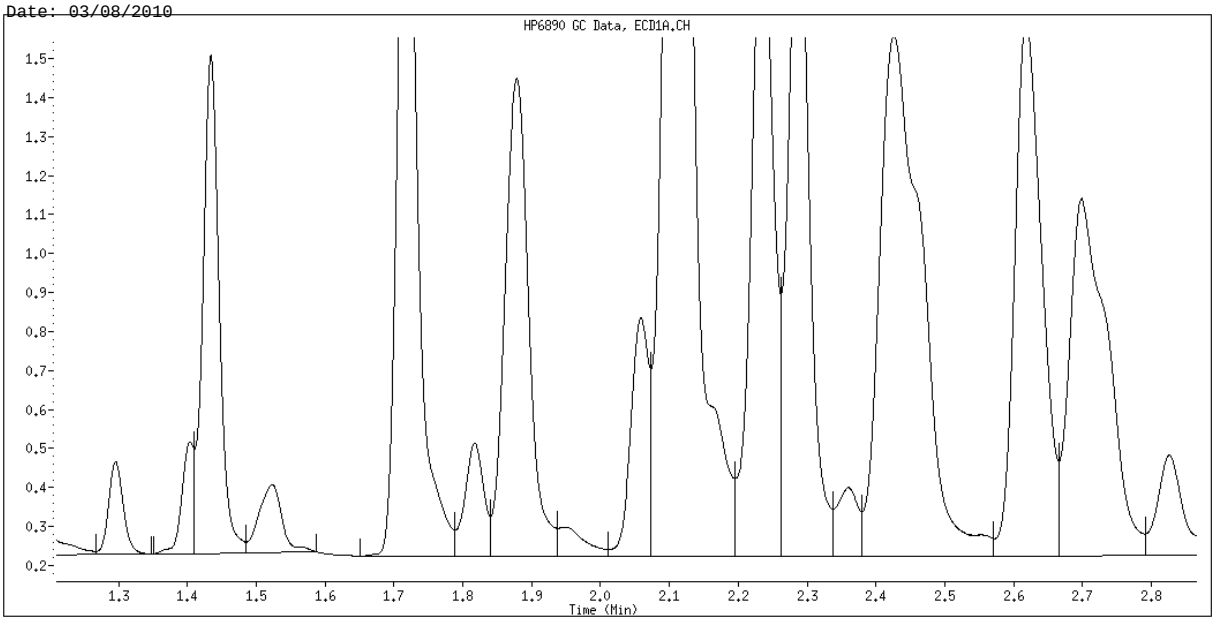
QC Flag Legend

M - Compound response manually integrated.

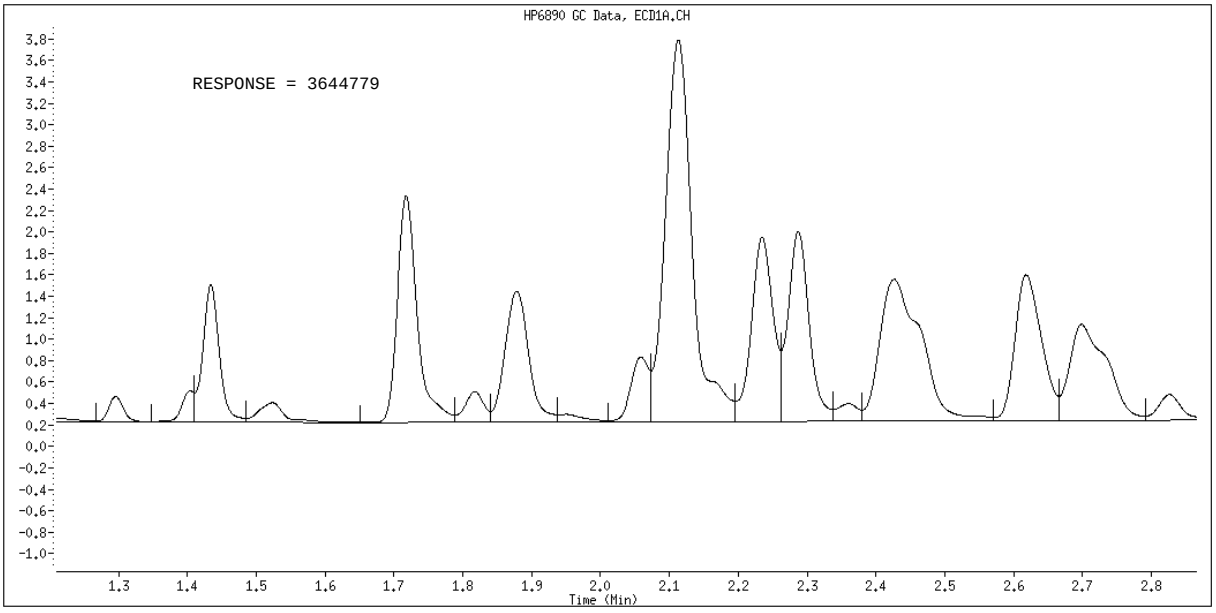
Data File: \\cansvr11\dd\chem\GCS\a2hp13.i\100305-1.b\030F3001.D
Date : 05-MAR-2010 14:11
Client ID: ATASB-008-5134-SO
Instrument: a2hp13.i
Sample Info: LV3KR1CD
Volume Injected (uL): 1.0
Operator:
Column phase: restek pest clpI
Column diameter: 0.53



Data File Name: 030F3001.D
Inj. Date and Time: 05-MAR-2010 14:11
Instrument ID: a2hp13.i
Client ID: ATASB-008-5134-SO
Compound Name: AROCLOR-1016
CAS #: 12674-11-2
Report Date: 03/08/2010



Original Integration



Manual Integration

Manually Integrated By: bolgrind
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp13.i

Standards Codes:	Routine Maintenance Performed:	Date: 08-FEB-2010 16:06
	Cut & Cleaned: ( )	QC Batch: 100208IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
002F0201.D	CALIB_1	1232	2	1			
003F0301.D	CALIB_2	1232	3	1			
004F0401.D	CALIB_3	1232	4	1			
005F0501.D	CALIB_4	1232	5	1			
006F0601.D	CALIB_5	1232	6	1			
007F0701.D	CALIB_6	1232	7	1			
008F0801.D	CALIB_1	1242	8	1			
009F0901.D	CALIB_2	1242	9	1			
010F1001.D	CALIB_3	1242	10	1			
011F1101.D	CALIB_4	1242	11	1			
012F1201.D	CALIB_5	1242	12	1			
013F1301.D	CALIB_6	1242	13	1			
014F1401.D	CALIB_1	1248	14	1			
015F1501.D	CALIB_2	1248	15	1			
016F1601.D	CALIB_3	1248	16	1			
017F1701.D	CALIB_4	1248	17	1			
018F1801.D	CALIB_5	1248	18	1			
019F1901.D	CALIB_6	1248	19	1			
020F2001.D	CALIB_1	1254	20	1			
021F2101.D	CALIB_2	1254	21	1			
022F2201.D	CALIB_3	1254	22	1			
023F2301.D	CALIB_4	1254	23	1			
024F2401.D	CALIB_5	1254	24	1			
025F2501.D	CALIB_6	1254	25	1			
026F2601.D	CALIB_1	1660	26	1			
027F2701.D	CALIB_2	1660	27	1			

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp13.i

Standards Codes:	Routine Maintenance Performed:	Date: 08-FEB-2010 22:21
	Cut & Cleaned: ( )	QC Batch: 100208IC-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
028F2801.D	CALIB_3	1660	28	1			
029F2901.D	CALIB_4	1660	29	1			
030F3001.D	CALIB_5	1660	30	1			
031F3101.D	CALIB_6	1660	31	1			
032F3201.D	CALIB_1	1262	32	1			
033F3301.D	CALIB_2	1262	33	1			
034F3401.D	CALIB_3	1262	34	1			
035F3501.D	CALIB_4	1262	35	1			
036F3601.D	CALIB_5	1262	36	1			
037F3701.D	CALIB_6	1262	37	1			
038F3801.D	CALIB_1	1268	38	1			
039F3901.D	CALIB_2	1268	39	1			
040F4001.D	CALIB_3	1268	40	1			
041F4101.D	CALIB_4	1268	41	1			
042F4201.D	CALIB_5	1268	42	1			
043F4301.D	CALIB_6	1268	43	1			
044F4401.D	CCALIB_4	1CV	44	1			
045F0101.D	CCALIB_4	1CV	45	1			
046F0101.D	CCALIB_4	1CV	46	1			

Witnessed By: Date: Page No. _____

TestAmerica - North Canton

GC SEMIVOLATILES INJECTION LOG Instr. a2hp13.i

Standards Codes:	Routine Maintenance Performed:	Date: 05-MAR-2010 10:43
	Cut & Cleaned: ( )	QC Batch: 100305-1.b
	Changed Sleeve: ( )	
	Other: ( )	

Data File	Client ID	Sample ID	ALS	DF	Analyst	Reagent	Comments
016F1601.D	MRL	MRL	16	1			
026F2601.D	CCALIB_4	E009	26	1			
027F2701.D	ATASB-008-5133-SO	LV3KQ1AF	27	1			
028F2801.D	ATASB-008-5134-SO	LV3KR1AR	28	1			
029F2901.D	ATASB-008-5134-SO	LV3KR1CC	29	1			
030F3001.D	ATASB-008-5134-SO	LV3KR1CD	30	1			
031F3101.D	LV6AQBLK	LV6AQ1AA	31	1			
032F3201.D	CCALIB_4	E009	32	1			
033F3301.D	F16SS-026M-5431-SO	LV3LJ1AE	33	1			
039F3901.D	LV6AQCHK	LV6AQ1AC	39	1			
040F4001.D	CCALIB_4	E009	40	1			
041F4101.D	MRL	MRL	41	1			

Witnessed By: Date: Page No. _____

North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 3/24/2010
Time: 19:54:57

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct &
			_	_	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
= Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 403847 Jeff Shanklin

Concentrationist: 000123 Leslie Howell
403847 Jeff Shanklin

Reviewer/Date: ARTENOM / 3/03/10

QC BATCH: 0060036

PREP DATE: 3/02/10
COMP DATE: 3/03/10

PCBs (8082)
SOXHLET (Na2SO4) w/ACID STRIP (PCB)
SW846 3540C, SW846 3540C/3665A

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/18/10	A0B250463-005 **LV3KR-1-CD D**	D	63	QH	SOLID	30.03g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 10PPM #4615 1ML 2/.2 #4621
COMMENTS:															
3/10/10	3/18/10	A0B250463-018 **LV3LJ-1-AE**	D	63	QH	SOLID	30.15g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	3/18/10	A0B250463-004 **LV3KQ-1-AF**	D	63	QH	SOLID	30.05g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	3/18/10	A0B250463-005 **LV3KR-1-AR**	D	63	QH	SOLID	30.03g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	3/18/10	A0B250463-005 **LV3KR-1-CC S**	D	63	QH	SOLID	30.12g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 10PPM #4615 1ML 2/.2 #4621
COMMENTS:															

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North Canton

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0060036

PREP DATE: 3/02/10
COMP DATE: 3/03/10

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/11/10	3/19/10	A0B260454-016 **LV43E-1-AF**	D	63	QH	SOLID	30.01g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:	DECANT														
3/11/10	3/19/10	A0B260454-002 **LV41R-1-AR**	D	63	QH	SOLID	30.07g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/11/10	3/19/10	A0B260454-008 **LV42P-1-AF**	D	63	QH	SOLID	30.07g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:	WET														
3/11/10	3/19/10	A0B260454-010 **LV42W-1-AF**	D	63	QH	SOLID	30.09g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:	WET														
3/11/10	3/19/10	A0B260454-001 **LV41M-1-AF**	D	63	QH	SOLID	30.03g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	0/0/0	A0C010000-036 **LV6AQ-1-AA B**		63	QH	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 2/.2 #4621
COMMENTS:															
3/10/10	0/0/0	A0C010000-036 **LV6AQ-1-AC C**		63	QH	SOLID	30.00g 10.00mL	0.0	NA	NA	DCM/ACE	200.0	HEXANE	36.0	1ML 10PPM #4615 1ML 2/.2 #4621
COMMENTS:															

S&S BY JS

DCM/ACE #J03E07 HEXANE #H46E60 NA2S04 #H35594 BALANCE #B025

ASSOC SAMPLES & BLANK W/0060035

NUMBER OF WORK ORDERS IN BATCH: 12

1659

North Canton

Lot/SDG Number: **A0B250463**

Sample Control Chain of Custody - TAL North Canton
GC Semivolatiles

Lot Number	Work Order	Analysis Type	Prep Date	Prep Analyst	Date of Transfer	Transferred By	Analysis Date	Analyst
A0B250463-004	LV3KQ1AF	PCBs (8082)	03/02/10	Jeff Shanklin	03/03/10	Michele Arteno	03/05/10	Deborah Bolgrin
A0B250463-005	LV3KR1AR	PCBs (8082)	03/02/10	Jeff Shanklin	03/03/10	Michele Arteno	03/05/10	Deborah Bolgrin
A0B250463-018	LV3LJ1AE	PCBs (8082)	03/02/10	Jeff Shanklin	03/03/10	Michele Arteno	03/05/10	Deborah Bolgrin

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METALS DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

FORMS DATA

Science Applications International Corp

Client Sample ID: ATASB-006-5127-SO

TOTAL Metals

Lot-Sample #...: A0B250463-001 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:53 **Date Received..:** 02/25/10
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.021 J**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AC**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0029		
Aluminum	**2490 B**	**112**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3KM1AD**
		Dilution Factor: 10		Analysis Time..: 10:15	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 27.9		
Arsenic	**7.4**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AE**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.059		
Barium	**16.5**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AF**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.15		
Beryllium	**0.15**	**0.11**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AG**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0039		
Calcium	**17600**	**224**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AH**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 44.9		
Cadmium	**0.095 J**	**0.22**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AJ**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0035		
Cobalt	**3.8 B**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AK**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0050		
Chromium	**5.1**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AL**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Copper	**13.3**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AM**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.12		

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-006-5127-SO

TOTAL Metals

Lot-Sample #...: A0B250463-001 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**12400 B**	**56.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AN**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 12.2		
Mercury	**0.061 J**	**0.11**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3KM1A3**
		Dilution Factor: 1		Analysis Time..: 09:40	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.016		
Potassium	**289**	**112**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AP**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.2		
Magnesium	**4580**	**112**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AQ**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 10		
Manganese	**243**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AR**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Sodium	**35.2 J**	**112**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AT**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 15.7		
Nickel	**8.4**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AU**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.097		
Lead	**7.7**	**0.34**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AV**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.079		
Antimony	**0.12 J**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AW**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.070		
Selenium	**0.51 J**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1AX**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.023		

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-006-5127-SO

TOTAL Metals

Lot-Sample #...: A0B250463-001 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.068 J**	**0.22**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1A0**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Vanadium	**5.7**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1A1**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.048		
Zinc	**49.3 B**	**4.5**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KM1A2**
		Dilution Factor: 1		Analysis Time..: 13:00	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.1		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-006-6080-FD

TOTAL Metals

Lot-Sample #...: A0B250463-002 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:53 **Date Received..:** 02/25/10
% Moisture.....: 9.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.028 J**	**0.55**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AH**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0029		
Aluminum	**2400 B**	**111**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3KN1AJ**
		Dilution Factor: 10		Analysis Time..: 10:20	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 27.6		
Arsenic	**8.0**	**0.55**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AK**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.058		
Barium	**15.4**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AL**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.14		
Beryllium	**0.15**	**0.11**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AM**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0039		
Calcium	**26400**	**222**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AN**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 44.4		
Cadmium	**0.19 J**	**0.22**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AP**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0034		
Cobalt	**3.2 B**	**0.55**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AQ**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0050		
Chromium	**4.9**	**0.55**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AR**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Copper	**11.3**	**0.55**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AT**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.12		

(Continued on next page)

Science Applications International Corp

Client Sample ID: ATASB-006-6080-FD

TOTAL Metals

Lot-Sample #...: A0B250463-002 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**12100 B**	**55.5**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AU**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 12.1		
Mercury	**0.017 J**	**0.11**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3KN1AE**
		Dilution Factor: 1		Analysis Time..: 09:31	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.016		
Potassium	**309**	**111**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AV**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.2		
Magnesium	**2600**	**111**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AW**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.9		
Manganese	**289**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AX**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Sodium	**37.7 J**	**111**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1A0**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 15.5		
Nickel	**8.6**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1A1**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.096		
Lead	**7.6**	**0.33**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1A2**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.078		
Antimony	**0.10 J**	**0.55**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1A3**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.069		
Selenium	**0.48 J**	**0.55**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1A4**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.023		

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Science Applications International Corp

Client Sample ID: ATASB-006-6080-FD

TOTAL Metals

Lot-Sample #...: A0B250463-002 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.075 J**	**0.22**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AA**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.062		
Vanadium	**5.6**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AC**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.048		
Zinc	**44.1 B**	**4.4**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KN1AD**
		Dilution Factor: 1		Analysis Time..: 13:05	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.1		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-006-5128-SO

TOTAL Metals

Lot-Sample #...: A0B250463-003 **Matrix.....:** SO
Date Sampled...: 02/24/10 11:15 **Date Received..:** 02/25/10
% Moisture.....: 5.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.017 J**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AH**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**2100 B**	**106**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3KP1AJ**
		Dilution Factor: 10		Analysis Time..: 10:25	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 26.3		
Arsenic	**6.8**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AK**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.055		
Barium	**12.9**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AL**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.14		
Beryllium	**0.15**	**0.11**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AM**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0037		
Calcium	**52100**	**211**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AN**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 42.3		
Cadmium	**0.063 J**	**0.21**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AP**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0033		
Cobalt	**2.9 B**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AQ**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0048		
Chromium	**3.6**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AR**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Copper	**9.7**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AT**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.12		

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Science Applications International Corp

Client Sample ID: ATASB-006-5128-SO

TOTAL Metals

Lot-Sample #...: A0B250463-003 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**12000 B**	**52.9**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AU**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.5		
Mercury	ND	0.11	mg/kg	SW846 7471A	03/02-03/04/10	LV3KP1AE
		Dilution Factor: 1		Analysis Time..: 09:51	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.015		
Potassium	**287**	**106**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AV**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.0		
Magnesium	**2670**	**106**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AW**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.4		
Manganese	**420**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AX**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Sodium	**48.9 J**	**106**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1A0**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.8		
Nickel	**7.5**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1A1**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.091		
Lead	**6.3**	**0.32**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1A2**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.075		
Antimony	**0.085 J**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1A3**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.066		
Selenium	**0.69**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1A4**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.022		

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Science Applications International Corp

Client Sample ID: ATASB-006-5128-SO

TOTAL Metals

Lot-Sample #...: A0B250463-003 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	0.21	mg/kg	SW846 6020	03/02-03/17/10	LV3KP1AA
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.059		
Vanadium	**4.6**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AC**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.046		
Zinc	**32.1 B**	**4.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KP1AD**
		Dilution Factor: 1		Analysis Time..: 13:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.1		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

TOTAL Metals

Lot-Sample #...: A0B250463-004 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.014 J**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AG**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0029		
Aluminum	**2680 B**	**113**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3KQ1AH**
		Dilution Factor: 10		Analysis Time..: 10:29	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 28.1		
Arsenic	**5.8**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AJ**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.059		
Barium	**13.4**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AK**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.15		
Beryllium	**0.14**	**0.11**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AL**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0040		
Calcium	**15800**	**226**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AM**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 45.2		
Cadmium	**0.069 J**	**0.23**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AN**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0035		
Cobalt	**3.4 B**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AP**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0051		
Chromium	**4.9**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AQ**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Copper	**13.4**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AR**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.12		

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Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

TOTAL Metals

Lot-Sample #...: A0B250463-004 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**12000 B**	**56.4**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AT**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 12.3		
Mercury	ND	0.11	mg/kg	SW846 7471A	03/02-03/04/10	LV3KQ1A7
		Dilution Factor: 1		Analysis Time..: 09:46	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.016		
Potassium	**331**	**113**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AU**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.2		
Magnesium	**2850**	**113**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AV**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 10.0		
Manganese	**247**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AW**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Sodium	**31.7 J**	**113**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1AX**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 15.8		
Nickel	**8.5**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1A0**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.098		
Lead	**8.1**	**0.34**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1A1**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.080		
Antimony	**0.10 J**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1A2**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.070		
Selenium	**0.74**	**0.56**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1A3**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.023		

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Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

TOTAL Metals

Lot-Sample #...: A0B250463-004 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	0.23	mg/kg	SW846 6020	03/02-03/17/10	LV3KQ1A4
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Vanadium	**5.0**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1A5**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.049		
Zinc	**38.1 B**	**4.5**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KQ1A6**
		Dilution Factor: 1		Analysis Time..: 13:14	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.1		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

TOTAL Metals

Lot-Sample #...: A0B250463-005 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
% Moisture.....: 4.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.017 J**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1AT**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**2370 B**	**105**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3KR1AU**
		Dilution Factor: 10		Analysis Time..: 10:34	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 26.2		
Arsenic	**6.3**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1AV**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.055		
Barium	**16.3**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1AW**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.14		
Beryllium	**0.14**	**0.11**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1AX**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0037		
Calcium	**25600**	**210**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1A0**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 42.1		
Cadmium	**0.063 J**	**0.21**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1A1**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0033		
Cobalt	**3.0 B**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1A2**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0047		
Chromium	**4.2**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1A3**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Copper	**11.2**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1A4**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.12		

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Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

TOTAL Metals

Lot-Sample #...: A0B250463-005 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**12700 B**	**52.5**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1A5**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.5		
Mercury	ND	0.11	mg/kg	SW846 7471A	03/02-03/04/10	LV3KR1AJ
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.015		
Potassium	**336**	**105**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1A6**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.0		
Magnesium	**3010**	**105**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1A7**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.4		
Manganese	**230**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1A8**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Sodium	**40.0 J**	**105**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1A9**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.7		
Nickel	**8.5**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1AA**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.091		
Lead	**5.5**	**0.32**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1AC**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.074		
Antimony	**0.11 J**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1AD**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.065		
Selenium	**0.57**	**0.53**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1AE**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.022		

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Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

TOTAL Metals

Lot-Sample #...: A0B250463-005 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	0.21	mg/kg	SW846 6020	03/02-03/17/10	LV3KR1AF
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.059		
Vanadium	**5.0**	**1.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1AG**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.045		
Zinc	**45.3 B**	**4.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KR1AH**
		Dilution Factor: 1		Analysis Time..: 13:19	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.1		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-009-5137-SO

TOTAL Metals

Lot-Sample #...: A0B250463-006 **Matrix.....:** SO
Date Sampled...: 02/24/10 13:25 **Date Received..:** 02/25/10
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.021 J**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AH**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0033		
Aluminum	**16400 B**	**127**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3KT1AJ**
		Dilution Factor: 10		Analysis Time..: 10:39	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 31.6		
Arsenic	**12.7**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AK**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.066		
Barium	**49.2**	**1.3**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AL**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Beryllium	**0.64**	**0.13**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AM**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0044		
Calcium	**2270**	**254**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AN**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 50.9		
Cadmium	**0.042 J**	**0.25**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AP**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0039		
Cobalt	**8.8 B**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AQ**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0057		
Chromium	**20.9**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AR**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.20		
Copper	**20.9**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AT**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.14		

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Science Applications International Corp

Client Sample ID: ATASB-009-5137-SO

TOTAL Metals

Lot-Sample #...: A0B250463-006 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**30200 B**	**63.5**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AU**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 13.9		
Mercury	**0.049 J**	**0.13**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3KT1AE**
		Dilution Factor: 1		Analysis Time..: 09:50	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.018		
Potassium	**1450**	**127**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AV**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.8		
Magnesium	**3810**	**127**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AW**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.3		
Manganese	**204**	**1.3**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AX**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.20		
Sodium	**43.8 J**	**127**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1A0**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 17.8		
Nickel	**25.1**	**1.3**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1A1**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		
Lead	**13.3**	**0.38**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1A2**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.090		
Antimony	**0.11 J**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1A3**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.079		
Selenium	**0.86**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1A4**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.026		

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Science Applications International Corp

Client Sample ID: ATASB-009-5137-SO

TOTAL Metals

Lot-Sample #...: A0B250463-006 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.17 J**	**0.25**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AA**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.071		
Vanadium	**24.3**	**1.3**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AC**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.055		
Zinc	**60.9 B**	**5.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KT1AD**
		Dilution Factor: 1		Analysis Time..: 13:23	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.3		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-009-5138-SO

TOTAL Metals

Lot-Sample #...: A0B250463-007 **Matrix.....:** SO
Date Sampled...: 02/24/10 13:50 **Date Received..:** 02/25/10
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.020 J**	**0.61**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AH**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0031		
Aluminum	**14900 B**	**121**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3KW1AJ**
		Dilution Factor: 10		Analysis Time..: 10:43	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 30.1		
Arsenic	**10.7**	**0.61**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AK**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Barium	**96.1**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AL**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Beryllium	**0.81**	**0.12**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AM**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0042		
Calcium	**26000**	**242**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AN**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 48.5		
Cadmium	**0.082 J**	**0.24**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AP**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0038		
Cobalt	**13.8 B**	**0.61**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AQ**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0054		
Chromium	**22.2**	**0.61**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AR**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.19		
Copper	**20.1**	**0.61**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AT**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		

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Science Applications International Corp

Client Sample ID: ATASB-009-5138-SO

TOTAL Metals

Lot-Sample #...: A0B250463-007 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**28600 B**	**60.5**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AU**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 13.2		
Mercury	**0.033 J**	**0.12**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3KW1AE**
		Dilution Factor: 1		Analysis Time..: 09:41	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.017		
Potassium	**2460**	**121**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AV**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.5		
Magnesium	**7690**	**121**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AW**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 10.8		
Manganese	**437**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AX**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.19		
Sodium	**96.4 J**	**121**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1A0**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 17.0		
Nickel	**32.5**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1A1**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.10		
Lead	**11.9**	**0.36**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1A2**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.085		
Antimony	**0.084 J**	**0.61**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1A3**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.075		
Selenium	**1.0**	**0.61**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1A4**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.025		

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Science Applications International Corp

Client Sample ID: ATASB-009-5138-SO

TOTAL Metals

Lot-Sample #...: A0B250463-007 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.20 J**	**0.24**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AA**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.068		
Vanadium	**25.2**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AC**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.052		
Zinc	**60.4 B**	**4.8**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KW1AD**
		Dilution Factor: 1		Analysis Time..: 13:28	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.2		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-009-6081-FD

TOTAL Metals

Lot-Sample #...: A0B250463-008 **Matrix.....:** SO
Date Sampled...: 02/24/10 13:55 **Date Received..:** 02/25/10
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.019 J**	**0.58**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AH**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0030		
Aluminum	**4370 B**	**115**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3KX1AJ**
		Dilution Factor: 10		Analysis Time..: 10:48	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 28.7		
Arsenic	**9.8**	**0.58**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AK**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.060		
Barium	**26.0**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AL**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.15		
Beryllium	**0.24**	**0.12**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AM**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0040		
Calcium	**12900**	**230**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AN**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 46.2		
Cadmium	**0.080 J**	**0.23**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AP**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Cobalt	**4.9 B**	**0.58**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AQ**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0052		
Chromium	**7.2**	**0.58**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AR**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Copper	**16.1**	**0.58**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AT**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		

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Science Applications International Corp

Client Sample ID: ATASB-009-6081-FD

TOTAL Metals

Lot-Sample #...: A0B250463-008 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**14400 B**	**57.6**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AU**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 12.6		
Mercury	ND	0.12	mg/kg	SW846 7471A	03/02-03/04/10	LV3KX1AE
		Dilution Factor: 1		Analysis Time..: 09:44	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.016		
Potassium	**827**	**115**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AV**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.3		
Magnesium	**3660**	**115**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AW**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 10.3		
Manganese	**246**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AX**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Sodium	**61.3 J**	**115**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1A0**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 16.1		
Nickel	**12.1**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1A1**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.10		
Lead	**8.6**	**0.35**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1A2**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.081		
Antimony	**0.076 J**	**0.58**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1A3**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.071		
Selenium	**0.67**	**0.58**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1A4**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.024		

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Science Applications International Corp

Client Sample ID: ATASB-009-6081-FD

TOTAL Metals

Lot-Sample #...: A0B250463-008 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.089 J**	**0.23**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AA**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.065		
Vanadium	**9.5**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AC**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.050		
Zinc	**52.0 B**	**4.6**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3KX1AD**
		Dilution Factor: 1		Analysis Time..: 13:33	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.2		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-010-5141-SO

TOTAL Metals

Lot-Sample #...: A0B250463-009 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10
% Moisture.....: 24

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0057017						
Silver	**0.024 J**	**0.66**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11AU**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0034		
Aluminum	**15400**	**13.2**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11AX**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.3		
Arsenic	**11.6 E**	**0.66**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11A2**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.069		
Barium	**47.9**	**1.3**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11A5**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Beryllium	**0.40**	**0.13**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11A8**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Calcium	**542**	**263**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11CC**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 52.7		
Cadmium	**0.028 J**	**0.26**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11CF**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0041		
Cobalt	**5.7**	**0.66**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11CJ**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0059		
Chromium	**18.0**	**0.66**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11CM**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.21		
Copper	**11.1**	**0.66**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11CQ**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.14		

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Science Applications International Corp

Client Sample ID: ATASB-010-5141-SO

TOTAL Metals

Lot-Sample #...: A0B250463-009 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**25200**	**65.8**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11CU**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Mercury	**0.048 J**	**0.13**	**mg/kg**	**SW846 7471A**	**02/26-03/03/10**	**LV3K11AL**
		Dilution Factor: 1		Analysis Time..: 14:28	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.018		
Potassium	**923 B**	**132**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11CX**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.9		
Magnesium	**2660**	**132**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11C2**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.7		
Manganese	**184**	**1.3**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11C5**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.21		
Sodium	**103 J**	**132**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11C8**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 18.4		
Nickel	**12.5**	**1.3**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11DC**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		
Lead	**12.2**	**0.39**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11DF**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.093		
Antimony	**0.15 J**	**0.66**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11DJ**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.082		
Selenium	**0.87**	**0.66**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11DM**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.027		

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Science Applications International Corp

Client Sample ID: ATASB-010-5141-SO

TOTAL Metals

Lot-Sample #...: A0B250463-009 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.20 J**	**0.26**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11AA**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.074		
Vanadium	**30.1**	**1.3**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11AE**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Zinc	**41.9**	**5.3**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV3K11AH**
		Dilution Factor: 1		Analysis Time..: 09:42	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.3		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

E Matrix interference.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-010-5142-SO

TOTAL Metals

Lot-Sample #...: A0B250463-010 **Matrix.....:** SO
Date Sampled...: 02/24/10 09:00 **Date Received..:** 02/25/10
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.013 J**	**0.60**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AH**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0031		
Aluminum	**12600 B**	**119**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3K31AJ**
		Dilution Factor: 10		Analysis Time..: 11:04	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 29.7		
Arsenic	**13.3**	**0.60**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AK**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.062		
Barium	**104**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AL**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Beryllium	**0.72**	**0.12**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AM**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0042		
Calcium	**1780**	**239**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AN**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 47.8		
Cadmium	**0.085 J**	**0.24**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AP**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0037		
Cobalt	**13.5 B**	**0.60**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AQ**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0054		
Chromium	**18.2**	**0.60**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AR**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.19		
Copper	**23.1**	**0.60**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AT**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		

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Science Applications International Corp

Client Sample ID: ATASB-010-5142-SO

TOTAL Metals

Lot-Sample #...: A0B250463-010 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**28600 B**	**59.6**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AU**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 13.0		
Mercury	ND	0.12	mg/kg	SW846 7471A	03/02-03/04/10	LV3K31AE
		Dilution Factor: 1		Analysis Time..: 09:38	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.017		
Potassium	**1530**	**119**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AV**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.5		
Magnesium	**4560**	**119**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AW**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 10.6		
Manganese	**426**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AX**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.19		
Sodium	**66.3 J**	**119**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31A0**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 16.7		
Nickel	**38.6**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31A1**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.10		
Lead	**13.0**	**0.36**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31A2**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.084		
Antimony	**0.10 J**	**0.60**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31A3**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.074		
Selenium	**1.1**	**0.60**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31A4**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.025		

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Science Applications International Corp

Client Sample ID: ATASB-010-5142-SO

TOTAL Metals

Lot-Sample #...: A0B250463-010 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.18 J**	**0.24**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AA**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.067		
Vanadium	**20.2**	**1.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AC**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.052		
Zinc	**68.8 B**	**4.8**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K31AD**
		Dilution Factor: 1		Analysis Time..: 13:49	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.2		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-011-5145-SO

TOTAL Metals

Lot-Sample #...: A0B250463-011 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:00 **Date Received..:** 02/25/10
% Moisture.....: 29

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.040 J**	**0.71**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AH**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0037		
Aluminum	**13100 B**	**141**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3K71AJ**
		Dilution Factor: 10		Analysis Time..: 11:09	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 35.2		
Arsenic	**11.6**	**0.71**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AK**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.074		
Barium	**65.1**	**1.4**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AL**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.18		
Beryllium	**0.57**	**0.14**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AM**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0049		
Calcium	**961**	**282**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AN**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 56.5		
Cadmium	**0.12 J**	**0.28**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AP**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0044		
Cobalt	**12.0 B**	**0.71**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AQ**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0064		
Chromium	**16.9**	**0.71**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AR**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.23		
Copper	**8.5**	**0.71**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AT**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		

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Science Applications International Corp

Client Sample ID: ATASB-011-5145-SO

TOTAL Metals

Lot-Sample #...: A0B250463-011 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**25900 B**	**70.6**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AU**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 15.4		
Mercury	**0.077 J**	**0.14**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3K71AE**
		Dilution Factor: 1		Analysis Time..: 09:29	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.020		
Potassium	**890**	**141**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AV**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 5.3		
Magnesium	**2300**	**141**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AW**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 12.6		
Manganese	**1180**	**1.4**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AX**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.23		
Sodium	**36.9 J**	**141**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71A0**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 19.8		
Nickel	**12.5**	**1.4**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71A1**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.12		
Lead	**19.7**	**0.42**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71A2**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.10		
Antimony	**0.13 J**	**0.71**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71A3**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Selenium	**1.1**	**0.71**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71A4**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.029		

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Science Applications International Corp

Client Sample ID: ATASB-011-5145-SO

TOTAL Metals

Lot-Sample #...: A0B250463-011 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.17 J**	**0.28**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AA**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.079		
Vanadium	**27.4**	**1.4**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AC**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.061		
Zinc	**57.1 B**	**5.6**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K71AD**
		Dilution Factor: 1		Analysis Time..: 13:54	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.4		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: ATASB-011-5146-SO

TOTAL Metals

Lot-Sample #...: A0B250463-012 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:24 **Date Received..:** 02/25/10
% Moisture.....: 22

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.021 J**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AH**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0033		
Aluminum	**15800 B**	**128**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3K81AJ**
		Dilution Factor: 10		Analysis Time..: 11:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 31.7		
Arsenic	**12.2**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AK**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.067		
Barium	**80.6**	**1.3**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AL**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.17		
Beryllium	**0.60**	**0.13**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AM**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0045		
Calcium	**1280**	**255**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AN**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 51.1		
Cadmium	**0.042 J**	**0.26**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AP**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0040		
Cobalt	**9.1 B**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AQ**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0057		
Chromium	**20.9**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AR**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.20		
Copper	**20.0**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AT**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.14		

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Science Applications International Corp

Client Sample ID: ATASB-011-5146-SO

TOTAL Metals

Lot-Sample #...: A0B250463-012 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**29700 B**	**63.8**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AU**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 13.9		
Mercury	**0.040 J**	**0.13**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3K81AE**
		Dilution Factor: 1		Analysis Time..: 09:30	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.018		
Potassium	**1110**	**128**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AV**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 4.8		
Magnesium	**3920**	**128**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AW**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.3		
Manganese	**167**	**1.3**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AX**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.20		
Sodium	**45.5 J**	**128**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81A0**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 17.9		
Nickel	**25.2**	**1.3**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81A1**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		
Lead	**12.8**	**0.38**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81A2**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.090		
Antimony	**0.090 J**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81A3**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.079		
Selenium	**0.91**	**0.64**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81A4**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.026		

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Science Applications International Corp

Client Sample ID: ATASB-011-5146-SO

TOTAL Metals

Lot-Sample #...: A0B250463-012 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.18 J**	**0.26**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AA**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Vanadium	**23.8**	**1.3**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AC**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.055		
Zinc	**52.5 B**	**5.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K81AD**
		Dilution Factor: 1		Analysis Time..: 13:59	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.3		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: F15SS-036M-5427-SO

TOTAL Metals

Lot-Sample #...: A0B250463-013 **Matrix.....:** SO
Date Sampled...: 02/24/10 14:00 **Date Received..:** 02/25/10
% Moisture.....: 1.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.043 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AC**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**9950 B**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3K91AD**
		Dilution Factor: 10		Analysis Time..: 11:18	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.4		
Arsenic	**10.4**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AE**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**87.3**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AF**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.78**	**0.10**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AG**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**6740**	**204**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AH**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.8		
Cadmium	**0.23**	**0.20**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AJ**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**9.3 B**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AK**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**86.2**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AL**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**38.4**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AM**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: F15SS-036M-5427-SO

TOTAL Metals

Lot-Sample #...: A0B250463-013 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**24500 B**	**51.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AN**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.072 J**	**0.10**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3K91A3**
		Dilution Factor: 1		Analysis Time..: 09:45	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**767**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AP**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**2790**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AQ**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**830**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AR**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Sodium	**77.3 J**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AT**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**47.3**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AU**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**19.6**	**0.31**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AV**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.16 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AW**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**1.2**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91AX**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: F15SS-036M-5427-SO

TOTAL Metals

Lot-Sample #...: A0B250463-013 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.14 J**	**0.20**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91A0**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**16.9**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91A1**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**74.3 B**	**4.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3K91A2**
		Dilution Factor: 1		Analysis Time..: 14:03	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: F15SS-035M-5428-SO

TOTAL Metals

Lot-Sample #...: A0B250463-014 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:00 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.037 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AK**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**14000 B**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3LA1AL**
		Dilution Factor: 10		Analysis Time..: 11:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.4		
Arsenic	**10**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AM**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**99.3**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AN**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.97**	**0.10**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AP**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**12200**	**204**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AQ**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.9		
Cadmium	**0.17 J**	**0.20**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AR**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**9.9 B**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AT**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**101**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AU**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**21.1**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AV**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: F15SS-035M-5428-SO

TOTAL Metals

Lot-Sample #...: A0B250463-014 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**24100 B**	**51.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AW**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.059 J**	**0.10**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3LA1AE**
		Dilution Factor: 1		Analysis Time..: 09:32	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**1150**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AX**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**4270**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1A0**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**591**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1A1**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Sodium	**125**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1A2**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**55.0**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1A3**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**31.1**	**0.31**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1A4**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.16 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1A5**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**1.3**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1A6**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: F15SS-035M-5428-SO

TOTAL Metals

Lot-Sample #...: A0B250463-014 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.17 J**	**0.20**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AA**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**18.3**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AC**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**67.9 B**	**4.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LA1AD**
		Dilution Factor: 1		Analysis Time..: 14:08	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: F15SS-035M-6121-FD

TOTAL Metals

Lot-Sample #...: A0B250463-015 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:00 **Date Received..:** 02/25/10
% Moisture.....: 2.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.034 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AT**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**12200 B**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3LC1AU**
		Dilution Factor: 10		Analysis Time..: 11:27	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.5		
Arsenic	**10.1**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AV**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**91.2**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AW**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.87**	**0.10**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AX**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**10600**	**205**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1A0**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 41.0		
Cadmium	**0.16 J**	**0.20**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1A1**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**9.4 B**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1A2**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**68.5**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1A3**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**24.0**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1A4**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: F15SS-035M-6121-FD

TOTAL Metals

Lot-Sample #...: A0B250463-015 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**23500 B**	**51.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1A5**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.2		
Mercury	**0.044 J**	**0.10**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3LC1AM**
		Dilution Factor: 1		Analysis Time..: 09:36	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**922**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1A6**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**4280**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AA**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**485**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AC**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Sodium	**96.5 J**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AD**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**42.4**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AE**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**21.1**	**0.31**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AF**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.18 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AG**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**1.1**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AH**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: F15SS-035M-6121-FD

TOTAL Metals

Lot-Sample #...: A0B250463-015 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.17 J**	**0.20**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AJ**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**18.3**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AK**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**57.2 B**	**4.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LC1AL**
		Dilution Factor: 1		Analysis Time..: 14:13	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: F15SS-037M-5429-SO

TOTAL Metals

Lot-Sample #...: A0B250463-016 **Matrix.....:** SO
Date Sampled...: 02/24/10 13:30 **Date Received..:** 02/25/10
% Moisture.....: 2.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.043 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1A2**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**11000 B**	**103**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3LE1A3**
		Dilution Factor: 10		Analysis Time..: 11:31	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.5		
Arsenic	**10.1**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1A4**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.054		
Barium	**78.3**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1A5**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.58**	**0.10**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1A6**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**3620**	**205**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AA**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 41.1		
Cadmium	**0.41**	**0.21**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AC**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**9.5 B**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AD**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**96.8**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AE**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**14.4**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AF**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: F15SS-037M-5429-SO

TOTAL Metals

Lot-Sample #...: A0B250463-016 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**24800 B**	**51.3**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AG**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.2		
Mercury	**0.050 J**	**0.10**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3LE1AV**
		Dilution Factor: 1		Analysis Time..: 09:39	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**907**	**103**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AH**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.9		
Magnesium	**2520**	**103**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AJ**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**646**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AK**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Sodium	**47.9 J**	**103**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AL**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.4		
Nickel	**54.4**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AM**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.089		
Lead	**18.0**	**0.31**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AN**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.30 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AP**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.064		
Selenium	**0.88**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AQ**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: F15SS-037M-5429-SO

TOTAL Metals

Lot-Sample #...: A0B250463-016 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.18 J**	**0.21**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AR**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.058		
Vanadium	**18.6**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AT**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**49.0 B**	**4.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LE1AU**
		Dilution Factor: 1		Analysis Time..: 14:17	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

TOTAL Metals

Lot-Sample #...: A0B250463-018 **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.034 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AF**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**13700 B**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/18/10**	**LV3LJ1AG**
		Dilution Factor: 10		Analysis Time..: 11:36	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 25.4		
Arsenic	**13.4**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AH**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**106**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AJ**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.78**	**0.10**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AK**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**5760**	**204**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AL**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.9		
Cadmium	**0.17 J**	**0.20**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AM**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**11.5 B**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AN**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**58.5**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AP**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**20.8**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AQ**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

TOTAL Metals

Lot-Sample #...: A0B250463-018 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**26800 B**	**51.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AR**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.048 J**	**0.10**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3LJ1A6**
		Dilution Factor: 1		Analysis Time..: 09:37	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**1310**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AT**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**3620**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AU**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**686**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AV**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Sodium	**67.5 J**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AW**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**39.6**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1AX**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**16.7**	**0.31**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1A0**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.18 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1A1**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**1.2**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1A2**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

TOTAL Metals

Lot-Sample #...: A0B250463-018 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.18 J**	**0.20**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1A3**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**20.8**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1A4**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**68.7 B**	**4.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LJ1A5**
		Dilution Factor: 1		Analysis Time..: 14:22	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

Science Applications International Corp

Client Sample ID: F16SS-027M-5432-SO

TOTAL Metals

Lot-Sample #...: A0B250463-020 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Silver	**0.048 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1AC**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0027		
Aluminum	**12900 B,E**	**10.2**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1AF**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 2.5		
Arsenic	**9.8**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1AJ**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.053		
Barium	**71.4**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1AM**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.13		
Beryllium	**0.84**	**0.10**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1AQ**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0036		
Calcium	**7690**	**204**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1AU**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 40.9		
Cadmium	**0.23**	**0.20**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1AX**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0032		
Cobalt	**8.6 B**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1A2**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.0046		
Chromium	**65.3**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1A5**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Copper	**18.2**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1A8**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.11		

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Science Applications International Corp

Client Sample ID: F16SS-027M-5432-SO

TOTAL Metals

Lot-Sample #...: A0B250463-020 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**29100 B**	**51.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1CC**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 11.1		
Mercury	**0.045 J**	**0.10**	**mg/kg**	**SW846 7471A**	**03/02-03/04/10**	**LV3LM1DJ**
		Dilution Factor: 1		Analysis Time..: 09:24	Analyst ID.....: 001576	
		Instrument ID..: H1		MDL.....: 0.014		
Potassium	**1140**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1CF**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 3.8		
Magnesium	**3310 E**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1CJ**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 9.1		
Manganese	**642**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1CM**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.16		
Sodium	**92.3 J**	**102**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1CQ**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 14.3		
Nickel	**37.3**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1CU**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.088		
Lead	**17.8**	**0.31**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1CX**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.072		
Antimony	**0.17 J**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1C2**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.063		
Selenium	**1.1**	**0.51**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1C5**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.021		

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Science Applications International Corp

Client Sample ID: F16SS-027M-5432-SO

TOTAL Metals

Lot-Sample #...: A0B250463-020 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	**0.19 J**	**0.20**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1C8**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.057		
Vanadium	**20.9**	**1.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1DC**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.044		
Zinc	**67.0 B**	**4.1**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LM1DF**
		Dilution Factor: 1		Analysis Time..: 12:21	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 1.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

B Blank contamination: Target analyte was detected at a reportable level.

E Matrix interference.

Science Applications International Corp

Client Sample ID: F16SS-024-5434-SO

TOTAL Metals

Lot-Sample #...: A0B250463-022 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:50 **Date Received..:** 02/25/10
% Moisture.....: 24

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Chromium	**21.0**	**0.66**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LT1AD**
		Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: F16SS-025-5435-SO

TOTAL Metals

Lot-Sample #...: A0B250463-023 **Matrix.....:** SO
Date Sampled...: 02/24/10 09:15 **Date Received..:** 02/25/10
% Moisture.....: 26

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Chromium	**21.4**	**0.68**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LW1AD**
		Dilution Factor: 1		Analysis Time..: 14:31	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: F15SS-034-5436-SO

TOTAL Metals

Lot-Sample #...: A0B250463-024 **Matrix.....:** SO
Date Sampled...: 02/24/10 14:10 **Date Received..:** 02/25/10
% Moisture.....: 34

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0061017						
Chromium	**18.4**	**0.76**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV3LX1AD**
		Dilution Factor: 1		Analysis Time..: 14:48	Analyst ID.....: 001637	
		Instrument ID..: I8		MDL.....: 0.24		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0B260000-017 **Prep Batch #...:** 0057017						
Aluminum	ND	10.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AG
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Antimony	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91A1
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Arsenic	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AH
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Barium	ND	1.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AJ
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Beryllium	ND	0.10	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AK
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Cadmium	ND	0.20	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AM
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Calcium	ND	200	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AL
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Chromium	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AP
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Cobalt	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AN
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Copper	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AQ
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Iron	ND	50.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AR
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	0.30	mg/kg	SW846 6020	02/26-03/01/10	LV4H91A0
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Magnesium	ND	100	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AU
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Manganese	ND	1.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AV
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Mercury	ND	0.10	mg/kg	SW846 7471A	02/26-03/03/10	LV4H91AE
		Dilution Factor: 1				
		Analysis Time..: 14:26	Analyst ID.....: 001576		Instrument ID..: H1	
Nickel	ND	1.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AX
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Potassium	**3.8 J**	**100**	**mg/kg**	**SW846 6020**	**02/26-03/01/10**	**LV4H91AT**
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Selenium	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91A2
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Silver	ND	0.50	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AF
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Sodium	ND	100	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AW
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Thallium	ND	0.20	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AA
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Vanadium	ND	1.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AC
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	
Zinc	ND	4.0	mg/kg	SW846 6020	02/26-03/01/10	LV4H91AD
		Dilution Factor: 1				
		Analysis Time..: 08:46	Analyst ID.....: 001637		Instrument ID..: I8	

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0C020000-017 **Prep Batch #...:** 0061017						
Aluminum	**3.5 J**	**10.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV63K1AC**
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Antimony	ND	0.50	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AV
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Arsenic	ND	0.50	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AD
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Barium	ND	1.0	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AE
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Beryllium	ND	0.10	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AF
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Cadmium	ND	0.20	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AH
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Calcium	ND	200	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AG
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Chromium	ND	0.50	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AK
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Cobalt	**0.0047 J**	**0.50**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV63K1AJ**
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Copper	ND	0.50	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AL
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Iron	**21.4 J**	**50.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV63K1AM**
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	ND	0.30	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AU
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Magnesium	ND	100	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AP
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Manganese	ND	1.0	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AQ
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Mercury	ND	0.10	mg/kg	SW846 7471A	03/02-03/04/10	LV63K1A2
		Dilution Factor: 1				
		Analysis Time..: 09:22	Analyst ID.....: 001576	Instrument ID..: H1		
Nickel	ND	1.0	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AT
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Potassium	ND	100	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AN
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Selenium	ND	0.50	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AW
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Silver	ND	0.50	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AA
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Sodium	ND	100	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AR
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Thallium	ND	0.20	mg/kg	SW846 6020	03/02-03/17/10	LV63K1AX
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Vanadium	ND	1.0	mg/kg	SW846 6020	03/02-03/17/10	LV63K1A0
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		
Zinc	**1.2 J**	**4.0**	**mg/kg**	**SW846 6020**	**03/02-03/17/10**	**LV63K1A1**
		Dilution Factor: 1				
		Analysis Time..: 11:25	Analyst ID.....: 001637	Instrument ID..: I8		

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated Result: Result is less than RL and greater than or equal to the MDL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0B260000-017 **Prep Batch #...:** 0057017					
Thallium	93	(71 - 110)	SW846 6020	02/26-03/01/10	LV4H91A3
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Vanadium	90	(72 - 110)	SW846 6020	02/26-03/01/10	LV4H91A4
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Zinc	100	(72 - 113)	SW846 6020	02/26-03/01/10	LV4H91A5
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Mercury	98	(80 - 120)	SW846 7471A	02/26-03/03/10	LV4H91A6
		Dilution Factor: 1	Analysis Time..: 14:27	Analyst ID.....: 001576	
		Instrument ID..: H1			
Silver	98	(60 - 114)	SW846 6020	02/26-03/01/10	LV4H91A7
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Aluminum	99	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91A8
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Arsenic	84	(73 - 110)	SW846 6020	02/26-03/01/10	LV4H91A9
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Barium	91	(70 - 110)	SW846 6020	02/26-03/01/10	LV4H91CA
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Beryllium	83	(79 - 110)	SW846 6020	02/26-03/01/10	LV4H91CC
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			
Calcium	106	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CD
		Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637	
		Instrument ID..: I8			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	88	(74 - 110)	SW846 6020	02/26-03/01/10	LV4H91CE
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Cobalt	94	(74 - 110)	SW846 6020	02/26-03/01/10	LV4H91CF
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Chromium	93	(70 - 110)	SW846 6020	02/26-03/01/10	LV4H91CG
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Copper	95	(73 - 110)	SW846 6020	02/26-03/01/10	LV4H91CH
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Iron	95	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CJ
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Potassium	97	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CK
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Magnesium	101	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CL
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Manganese	103	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CM
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Sodium	97	(80 - 120)	SW846 6020	02/26-03/01/10	LV4H91CN
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Nickel	95	(75 - 110)	SW846 6020	02/26-03/01/10	LV4H91CP
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Lead	91	(75 - 110)	SW846 6020	02/26-03/01/10	LV4H91CQ
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	91	(68 - 113)	SW846 6020	02/26-03/01/10	LV4H91CR
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				
Selenium	81	(65 - 110)	SW846 6020	02/26-03/01/10	LV4H91CT
	Dilution Factor: 1	Analysis Time..: 08:51	Analyst ID.....: 001637		
	Instrument ID..: I8				

LCS Lot-Sample#: A0C020000-017 **Prep Batch #...:** 0061017

Silver	97	(60 - 114)	SW846 6020	03/02-03/17/10	LV63K1A3
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Aluminum	97	(80 - 120)	SW846 6020	03/02-03/17/10	LV63K1A4
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Arsenic	87	(73 - 110)	SW846 6020	03/02-03/17/10	LV63K1A5
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Barium	94	(70 - 110)	SW846 6020	03/02-03/17/10	LV63K1A6
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Beryllium	91	(79 - 110)	SW846 6020	03/02-03/17/10	LV63K1A7
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Calcium	106	(80 - 120)	SW846 6020	03/02-03/17/10	LV63K1A8
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Cadmium	94	(74 - 110)	SW846 6020	03/02-03/17/10	LV63K1A9
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Cobalt	97	(74 - 110)	SW846 6020	03/02-03/17/10	LV63K1CA
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Chromium	96	(70 - 110)	SW846 6020	03/02-03/17/10	LV63K1CC
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	97	(73 - 110)	SW846 6020	03/02-03/17/10	LV63K1CD
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Iron	98	(80 - 120)	SW846 6020	03/02-03/17/10	LV63K1CE
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Potassium	96	(80 - 120)	SW846 6020	03/02-03/17/10	LV63K1CF
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Magnesium	98	(80 - 120)	SW846 6020	03/02-03/17/10	LV63K1CG
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Manganese	101	(80 - 120)	SW846 6020	03/02-03/17/10	LV63K1CH
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Sodium	102	(80 - 120)	SW846 6020	03/02-03/17/10	LV63K1CJ
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Nickel	98	(75 - 110)	SW846 6020	03/02-03/17/10	LV63K1CK
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Lead	93	(75 - 110)	SW846 6020	03/02-03/17/10	LV63K1CL
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Antimony	93	(68 - 113)	SW846 6020	03/02-03/17/10	LV63K1CM
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Selenium	88	(65 - 110)	SW846 6020	03/02-03/17/10	LV63K1CN
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Thallium	98	(71 - 110)	SW846 6020	03/02-03/17/10	LV63K1CP
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	94	(72 - 110)	SW846 6020	03/02-03/17/10	LV63K1CQ
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Zinc	103	(72 - 113)	SW846 6020	03/02-03/17/10	LV63K1CR
	Dilution Factor: 1	Analysis Time..: 12:14	Analyst ID.....: 001637		
	Instrument ID..: I8				
Mercury	95	(80 - 120)	SW846 7471A	03/02-03/04/10	LV63K1CT
	Dilution Factor: 1	Analysis Time..: 09:23	Analyst ID.....: 001576		
	Instrument ID..: H1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0B260000-017 **Prep Batch #...:** 0057017							
Thallium	10.0	9.3	mg/kg	93	SW846 6020	02/26-03/01/10	LV4H91A3
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Vanadium	10.0	9.0	mg/kg	90	SW846 6020	02/26-03/01/10	LV4H91A4
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Zinc	10.0	10	mg/kg	100	SW846 6020	02/26-03/01/10	LV4H91A5
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Mercury	0.83	0.81	mg/kg	98	SW846 7471A	02/26-03/03/10	LV4H91A6
			Dilution Factor: 1		Analysis Time..: 14:27	Analyst ID.....: 001576	
			Instrument ID..: H1				
Silver	10.0	9.8	mg/kg	98	SW846 6020	02/26-03/01/10	LV4H91A7
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Aluminum	1000	994	mg/kg	99	SW846 6020	02/26-03/01/10	LV4H91A8
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Arsenic	10.0	8.4	mg/kg	84	SW846 6020	02/26-03/01/10	LV4H91A9
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Barium	10.0	9.1	mg/kg	91	SW846 6020	02/26-03/01/10	LV4H91CA
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Beryllium	10.0	8.3	mg/kg	83	SW846 6020	02/26-03/01/10	LV4H91CC
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Calcium	1000	1060	mg/kg	106	SW846 6020	02/26-03/01/10	LV4H91CD
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium	10.0	8.8	mg/kg	88	SW846 6020	02/26-03/01/10	LV4H91CE
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Cobalt	10.0	9.4	mg/kg	94	SW846 6020	02/26-03/01/10	LV4H91CF
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Chromium	10.0	9.3	mg/kg	93	SW846 6020	02/26-03/01/10	LV4H91CG
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Copper	10.0	9.5	mg/kg	95	SW846 6020	02/26-03/01/10	LV4H91CH
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Iron	1000	948	mg/kg	95	SW846 6020	02/26-03/01/10	LV4H91CJ
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Potassium	1000	973	mg/kg	97	SW846 6020	02/26-03/01/10	LV4H91CK
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Magnesium	1000	1010	mg/kg	101	SW846 6020	02/26-03/01/10	LV4H91CL
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Manganese	10.0	10.3	mg/kg	103	SW846 6020	02/26-03/01/10	LV4H91CM
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Sodium	1000	967	mg/kg	97	SW846 6020	02/26-03/01/10	LV4H91CN
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Nickel	10.0	9.5	mg/kg	95	SW846 6020	02/26-03/01/10	LV4H91CP
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					
Lead	10.0	9.1	mg/kg	91	SW846 6020	02/26-03/01/10	LV4H91CQ
		Dilution Factor: 1		Analysis Time..: 08:51		Analyst ID.....: 001637	
		Instrument ID..: I8					

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	10.0	9.1	mg/kg	91	SW846 6020	02/26-03/01/10	LV4H91CR
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				
Selenium	10.0	8.1	mg/kg	81	SW846 6020	02/26-03/01/10	LV4H91CT
			Dilution Factor: 1		Analysis Time..: 08:51	Analyst ID.....: 001637	
			Instrument ID..: I8				

LCS Lot-Sample#: A0C020000-017 **Prep Batch #...:** 0061017

Silver	10.0	9.7	mg/kg	97	SW846 6020	03/02-03/17/10	LV63K1A3
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Aluminum	1000	972	mg/kg	97	SW846 6020	03/02-03/17/10	LV63K1A4
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Arsenic	10.0	8.7	mg/kg	87	SW846 6020	03/02-03/17/10	LV63K1A5
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Barium	10.0	9.4	mg/kg	94	SW846 6020	03/02-03/17/10	LV63K1A6
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Beryllium	10.0	9.1	mg/kg	91	SW846 6020	03/02-03/17/10	LV63K1A7
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Calcium	1000	1060	mg/kg	106	SW846 6020	03/02-03/17/10	LV63K1A8
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Cadmium	10.0	9.4	mg/kg	94	SW846 6020	03/02-03/17/10	LV63K1A9
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Cobalt	10.0	9.7	mg/kg	97	SW846 6020	03/02-03/17/10	LV63K1CA
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Chromium	10.0	9.6	mg/kg	96	SW846 6020	03/02-03/17/10	LV63K1CC
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	10.0	9.7	mg/kg	97	SW846 6020	03/02-03/17/10	LV63K1CD
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Iron	1000	978	mg/kg	98	SW846 6020	03/02-03/17/10	LV63K1CE
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Potassium	1000	962	mg/kg	96	SW846 6020	03/02-03/17/10	LV63K1CF
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Magnesium	1000	976	mg/kg	98	SW846 6020	03/02-03/17/10	LV63K1CG
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Manganese	10.0	10.1	mg/kg	101	SW846 6020	03/02-03/17/10	LV63K1CH
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Sodium	1000	1020	mg/kg	102	SW846 6020	03/02-03/17/10	LV63K1CJ
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Nickel	10.0	9.8	mg/kg	98	SW846 6020	03/02-03/17/10	LV63K1CK
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Lead	10.0	9.3	mg/kg	93	SW846 6020	03/02-03/17/10	LV63K1CL
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Antimony	10.0	9.3	mg/kg	93	SW846 6020	03/02-03/17/10	LV63K1CM
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Selenium	10.0	8.8	mg/kg	88	SW846 6020	03/02-03/17/10	LV63K1CN
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Thallium	10.0	9.8	mg/kg	98	SW846 6020	03/02-03/17/10	LV63K1CP
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	10.0	9.4	mg/kg	94	SW846 6020	03/02-03/17/10	LV63K1CQ
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Zinc	10.0	10.3	mg/kg	103	SW846 6020	03/02-03/17/10	LV63K1CR
			Dilution Factor: 1		Analysis Time..: 12:14	Analyst ID.....: 001637	
			Instrument ID..: I8				
Mercury	0.83	0.79	mg/kg	95	SW846 7471A	03/02-03/04/10	LV63K1CT
			Dilution Factor: 1		Analysis Time..: 09:23	Analyst ID.....: 001576	
			Instrument ID..: H1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0B250463-009 **Prep Batch #...:** 0057017							
Aluminum	NC,MSB	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11A0
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	02/26-03/01/10	LV3K11A1
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Antimony	37 N	(75 - 125)			SW846 6020	02/26-03/01/10	LV3K11DK
	31 N	(75 - 125)	17	(0-20)	SW846 6020	02/26-03/01/10	LV3K11DL
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Arsenic	104	(23 - 131)			SW846 6020	02/26-03/01/10	LV3K11A3
	92	(23 - 131)	6.7	(0-20)	SW846 6020	02/26-03/01/10	LV3K11A4
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Barium	118	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11A6
	74	(10 - 199)	9.6	(0-20)	SW846 6020	02/26-03/01/10	LV3K11A7
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Beryllium	96	(58 - 112)			SW846 6020	02/26-03/01/10	LV3K11A9
	90	(58 - 112)	6.4	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CA
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Cadmium	95	(58 - 110)			SW846 6020	02/26-03/01/10	LV3K11CG
	88	(58 - 110)	7.2	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CH
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Calcium	95	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11CD
	96	(70 - 130)	0.87	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CE
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Chromium	111	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11CN
	86	(10 - 199)	10	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CP
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	96	(55 - 110)			SW846 6020	02/26-03/01/10	LV3K11CK
	86	(55 - 110)	7.8	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CL
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Copper	106	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11CR
	95	(10 - 199)	5.5	(0-20)	SW846 6020	02/26-03/01/10	LV3K11CT
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Iron	NC,MSB	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11CV
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	02/26-03/01/10	LV3K11CW
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Lead	95	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11DG
	79	(10 - 199)	9.0	(0-20)	SW846 6020	02/26-03/01/10	LV3K11DH
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Magnesium	124	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11C3
	96	(70 - 130)	8.8	(0-20)	SW846 6020	02/26-03/01/10	LV3K11C4
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Manganese	NC,MSB	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11C6
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	02/26-03/01/10	LV3K11C7
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Mercury	103	(80 - 120)			SW846 7471A	02/26-03/03/10	LV3K11AM
	93	(80 - 120)	8.0	(0-20)	SW846 7471A	02/26-03/03/10	LV3K11AN
		Dilution Factor: 1					
		Analysis Time..: 14:31			Instrument ID..: H1	Analyst ID.....: 001576	
Nickel	114	(10 - 176)			SW846 6020	02/26-03/01/10	LV3K11DD
	94	(10 - 176)	9.9	(0-20)	SW846 6020	02/26-03/01/10	LV3K11DE
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Potassium	119	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11C0
	92	(70 - 130)	15	(0-20)	SW846 6020	02/26-03/01/10	LV3K11C1
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	96	(39 - 116)			SW846 6020	02/26-03/01/10	LV3K11DN
	85	(39 - 116)	11	(0-20)	SW846 6020	02/26-03/01/10	LV3K11DP
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Silver	98	(75 - 125)			SW846 6020	02/26-03/01/10	LV3K11AV
	98	(75 - 125)	0.08	(0-20)	SW846 6020	02/26-03/01/10	LV3K11AW
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Sodium	101	(70 - 130)			SW846 6020	02/26-03/01/10	LV3K11C9
	96	(70 - 130)	4.9	(0-20)	SW846 6020	02/26-03/01/10	LV3K11DA
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Thallium	91	(62 - 110)			SW846 6020	02/26-03/01/10	LV3K11AC
	85	(62 - 110)	6.7	(0-20)	SW846 6020	02/26-03/01/10	LV3K11AD
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Vanadium	115	(39 - 129)			SW846 6020	02/26-03/01/10	LV3K11AF
	82	(39 - 129)	9.8	(0-20)	SW846 6020	02/26-03/01/10	LV3K11AG
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	
Zinc	152	(10 - 199)			SW846 6020	02/26-03/01/10	LV3K11AJ
	131	(10 - 199)	4.7	(0-20)	SW846 6020	02/26-03/01/10	LV3K11AK
		Dilution Factor: 10					
		Analysis Time..: 09:56			Instrument ID..: I8	Analyst ID.....: 001637	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0B250463-009 **Prep Batch #...:** 0057017									
Aluminum									
	15400	1320	19500	mg/kg			SW846 6020	02/26-03/01/10	LV3K11A0
			Qualifiers: NC,MSB						
	15400	1320	17500	mg/kg			SW846 6020	02/26-03/01/10	LV3K11A1
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 09:56	Instrument ID..: I8			Analyst ID.....: 001637		
Antimony									
	0.15	13.2	5.0 N	mg/kg	37		SW846 6020	02/26-03/01/10	LV3K11DK
	0.15	13.2	4.2 N	mg/kg	31	17	SW846 6020	02/26-03/01/10	LV3K11DL
			Dilution Factor: 10						
			Analysis Time..: 09:56	Instrument ID..: I8			Analyst ID.....: 001637		
Arsenic									
	11.6	13.2	25.3	mg/kg	104		SW846 6020	02/26-03/01/10	LV3K11A3
	11.6	13.2	23.6	mg/kg	92	6.7	SW846 6020	02/26-03/01/10	LV3K11A4
			Dilution Factor: 10						
			Analysis Time..: 09:56	Instrument ID..: I8			Analyst ID.....: 001637		
Barium									
	47.9	13.2	63.4	mg/kg	118		SW846 6020	02/26-03/01/10	LV3K11A6
	47.9	13.2	57.6	mg/kg	74	9.6	SW846 6020	02/26-03/01/10	LV3K11A7
			Dilution Factor: 10						
			Analysis Time..: 09:56	Instrument ID..: I8			Analyst ID.....: 001637		
Beryllium									
	0.40	13.2	13.0	mg/kg	96		SW846 6020	02/26-03/01/10	LV3K11A9
	0.40	13.2	12.2	mg/kg	90	6.4	SW846 6020	02/26-03/01/10	LV3K11CA
			Dilution Factor: 10						
			Analysis Time..: 09:56	Instrument ID..: I8			Analyst ID.....: 001637		
Cadmium									
	0.028	13.2	12.5	mg/kg	95		SW846 6020	02/26-03/01/10	LV3K11CG
	0.028	13.2	11.6	mg/kg	88	7.2	SW846 6020	02/26-03/01/10	LV3K11CH
			Dilution Factor: 10						
			Analysis Time..: 09:56	Instrument ID..: I8			Analyst ID.....: 001637		
Calcium									
	542	1320	1790	mg/kg	95		SW846 6020	02/26-03/01/10	LV3K11CD
	542	1320	1810	mg/kg	96	0.87	SW846 6020	02/26-03/01/10	LV3K11CE
			Dilution Factor: 10						
			Analysis Time..: 09:56	Instrument ID..: I8			Analyst ID.....: 001637		

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	18.0	13.2	32.5	mg/kg	111		SW846 6020	02/26-03/01/10	LV3K11CN
	18.0	13.2	29.3	mg/kg	86	10	SW846 6020	02/26-03/01/10	LV3K11CP
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Cobalt									
	5.7	13.2	18.3	mg/kg	96		SW846 6020	02/26-03/01/10	LV3K11CK
	5.7	13.2	17.0	mg/kg	86	7.8	SW846 6020	02/26-03/01/10	LV3K11CL
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Copper									
	11.1	13.2	25.0	mg/kg	106		SW846 6020	02/26-03/01/10	LV3K11CR
	11.1	13.2	23.6	mg/kg	95	5.5	SW846 6020	02/26-03/01/10	LV3K11CT
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Iron									
	25200	1320	27700	mg/kg			SW846 6020	02/26-03/01/10	LV3K11CV
			Qualifiers: NC,MSB						
	25200	1320	24800	mg/kg			SW846 6020	02/26-03/01/10	LV3K11CW
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Lead									
	12.2	13.2	24.7	mg/kg	95		SW846 6020	02/26-03/01/10	LV3K11DG
	12.2	13.2	22.5	mg/kg	79	9.0	SW846 6020	02/26-03/01/10	LV3K11DH
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Magnesium									
	2660	1320	4290	mg/kg	124		SW846 6020	02/26-03/01/10	LV3K11C3
	2660	1320	3930	mg/kg	96	8.8	SW846 6020	02/26-03/01/10	LV3K11C4
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Manganese									
	184	13.2	219	mg/kg			SW846 6020	02/26-03/01/10	LV3K11C6
			Qualifiers: NC,MSB						
	184	13.2	204	mg/kg			SW846 6020	02/26-03/01/10	LV3K11C7
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury									
	0.048	0.22	0.27	mg/kg	103		SW846 7471A	02/26-03/03/10	LV3K11AM
	0.048	0.22	0.25	mg/kg	93	8.0	SW846 7471A	02/26-03/03/10	LV3K11AN
			Dilution Factor: 1						
			Analysis Time..: 14:31		Instrument ID..: H1		Analyst ID.....: 001576		
Nickel									
	12.5	13.2	27.4	mg/kg	114		SW846 6020	02/26-03/01/10	LV3K11DD
	12.5	13.2	24.8	mg/kg	94	9.9	SW846 6020	02/26-03/01/10	LV3K11DE
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637		
Potassium									
	923	1320	2480	mg/kg	119		SW846 6020	02/26-03/01/10	LV3K11C0
	923	1320	2130	mg/kg	92	15	SW846 6020	02/26-03/01/10	LV3K11C1
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637		
Selenium									
	0.87	13.2	13.5	mg/kg	96		SW846 6020	02/26-03/01/10	LV3K11DN
	0.87	13.2	12.1	mg/kg	85	11	SW846 6020	02/26-03/01/10	LV3K11DP
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637		
Silver									
	0.024	13.2	12.9	mg/kg	98		SW846 6020	02/26-03/01/10	LV3K11AV
	0.024	13.2	12.9	mg/kg	98	0.08	SW846 6020	02/26-03/01/10	LV3K11AW
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637		
Sodium									
	103	1320	1440	mg/kg	101		SW846 6020	02/26-03/01/10	LV3K11C9
	103	1320	1370	mg/kg	96	4.9	SW846 6020	02/26-03/01/10	LV3K11DA
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637		
Thallium									
	0.20	13.2	12.1	mg/kg	91		SW846 6020	02/26-03/01/10	LV3K11AC
	0.20	13.2	11.3	mg/kg	85	6.7	SW846 6020	02/26-03/01/10	LV3K11AD
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8		Analyst ID.....: 001637		

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	30.1	13.2	45.2	mg/kg	115		SW846 6020	02/26-03/01/10	LV3K11AF
	30.1	13.2	41.0	mg/kg	82	9.8	SW846 6020	02/26-03/01/10	LV3K11AG
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	
Zinc									
	41.9	13.2	61.9	mg/kg	152		SW846 6020	02/26-03/01/10	LV3K11AJ
	41.9	13.2	59.1	mg/kg	131	4.7	SW846 6020	02/26-03/01/10	LV3K11AK
			Dilution Factor: 10						
			Analysis Time..: 09:56		Instrument ID..: I8			Analyst ID.....: 001637	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0B250463-020 **Prep Batch #...:** 0061017							
Aluminum	NC,MSB	(70 - 130)			SW846 6020	03/02-03/17/10	LV3LM1AG
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	03/02-03/18/10	LV3LM1AH
		Dilution Factor: 10					
		Analysis Time..: 12:30	Instrument ID..: I8		Analyst ID.....: 001637		
Antimony	26 N	(75 - 125)			SW846 6020	03/02-03/17/10	LV3LM1C3
	25 N	(75 - 125)	1.8	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1C4
		Dilution Factor: 10					
		Analysis Time..: 12:30	Instrument ID..: I8		Analyst ID.....: 001637		
Arsenic	90	(23 - 131)			SW846 6020	03/02-03/17/10	LV3LM1AK
	86	(23 - 131)	2.0	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1AL
		Dilution Factor: 10					
		Analysis Time..: 12:30	Instrument ID..: I8		Analyst ID.....: 001637		
Barium	NC,MSB	(10 - 199)			SW846 6020	03/02-03/17/10	LV3LM1AN
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	03/02-03/17/10	LV3LM1AP
		Dilution Factor: 10					
		Analysis Time..: 12:30	Instrument ID..: I8		Analyst ID.....: 001637		
Beryllium	91	(58 - 112)			SW846 6020	03/02-03/17/10	LV3LM1AR
	89	(58 - 112)	2.1	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1AT
		Dilution Factor: 10					
		Analysis Time..: 12:30	Instrument ID..: I8		Analyst ID.....: 001637		
Cadmium	96	(58 - 110)			SW846 6020	03/02-03/17/10	LV3LM1A0
	92	(58 - 110)	3.9	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1A1
		Dilution Factor: 10					
		Analysis Time..: 12:30	Instrument ID..: I8		Analyst ID.....: 001637		
Calcium	NC,MSB	(70 - 130)			SW846 6020	03/02-03/17/10	LV3LM1AV
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	03/02-03/17/10	LV3LM1AW
		Dilution Factor: 10					
		Analysis Time..: 12:30	Instrument ID..: I8		Analyst ID.....: 001637		
Chromium	NC,MSB	(10 - 199)			SW846 6020	03/02-03/17/10	LV3LM1A6
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	03/02-03/17/10	LV3LM1A7
		Dilution Factor: 10					
		Analysis Time..: 12:30	Instrument ID..: I8		Analyst ID.....: 001637		

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	91	(55 - 110)			SW846 6020	03/02-03/17/10	LV3LM1A3
	88	(55 - 110)	2.0	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1A4
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Copper	98	(10 - 199)			SW846 6020	03/02-03/17/10	LV3LM1A9
	89	(10 - 199)	3.4	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1CA
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Iron	NC,MSB	(70 - 130)			SW846 6020	03/02-03/17/10	LV3LM1CD
	NC,MSB	(70 - 130)		(0-20)	SW846 6020	03/02-03/17/10	LV3LM1CE
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Lead	92	(10 - 199)			SW846 6020	03/02-03/17/10	LV3LM1C0
	88	(10 - 199)	1.6	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1C1
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Magnesium	122	(70 - 130)			SW846 6020	03/02-03/17/10	LV3LM1CK
	98	(70 - 130)	5.5	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1CL
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Manganese	NC,MSB	(10 - 199)			SW846 6020	03/02-03/17/10	LV3LM1CN
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	03/02-03/17/10	LV3LM1CP
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Mercury	95	(80 - 120)			SW846 7471A	03/02-03/04/10	LV3LM1DK
	97	(80 - 120)	1.3	(0-20)	SW846 7471A	03/02-03/04/10	LV3LM1DL
		Dilution Factor: 1					
		Analysis Time..: 09:26			Instrument ID..: H1	Analyst ID.....: 001576	
Nickel	112	(10 - 176)			SW846 6020	03/02-03/17/10	LV3LM1CV
	96	(10 - 176)	3.4	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1CW
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Potassium	84	(70 - 130)			SW846 6020	03/02-03/17/10	LV3LM1CG
	81	(70 - 130)	1.8	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1CH
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	81	(39 - 116)			SW846 6020	03/02-03/17/10	LV3LM1C6
	82	(39 - 116)	1.1	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1C7
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Silver	98	(75 - 125)			SW846 6020	03/02-03/17/10	LV3LM1AD
	94	(75 - 125)	3.8	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1AE
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Sodium	98	(70 - 130)			SW846 6020	03/02-03/17/10	LV3LM1CR
	87	(70 - 130)	11	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1CT
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Thallium	85	(62 - 110)			SW846 6020	03/02-03/17/10	LV3LM1C9
	83	(62 - 110)	2.3	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1DA
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Vanadium	105	(39 - 129)			SW846 6020	03/02-03/17/10	LV3LM1DD
	82	(39 - 129)	7.5	(0-20)	SW846 6020	03/02-03/17/10	LV3LM1DE
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	
Zinc	NC,MSB	(10 - 199)			SW846 6020	03/02-03/17/10	LV3LM1DG
	NC,MSB	(10 - 199)		(0-20)	SW846 6020	03/02-03/17/10	LV3LM1DH
		Dilution Factor: 10					
		Analysis Time..: 12:30			Instrument ID..: I8	Analyst ID.....: 001637	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0B250463-020 **Prep Batch #...:** 0061017									
Aluminum	12900	1020	15600	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1AG
			Qualifiers: NC,MSB						
	12900	1020	14700	mg/kg			SW846 6020	03/02-03/18/10	LV3LM1AH
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:30	Instrument ID..: I8			Analyst ID.....: 001637		
Antimony	0.17	10.2	2.8 N	mg/kg	26		SW846 6020	03/02-03/17/10	LV3LM1C3
	0.17	10.2	2.8 N	mg/kg	25	1.8	SW846 6020	03/02-03/17/10	LV3LM1C4
			Dilution Factor: 10						
			Analysis Time..: 12:30	Instrument ID..: I8			Analyst ID.....: 001637		
Arsenic	9.8	10.2	19.0	mg/kg	90		SW846 6020	03/02-03/17/10	LV3LM1AK
	9.8	10.2	18.7	mg/kg	86	2.0	SW846 6020	03/02-03/17/10	LV3LM1AL
			Dilution Factor: 10						
			Analysis Time..: 12:30	Instrument ID..: I8			Analyst ID.....: 001637		
Barium	71.4	10.2	80.0	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1AN
			Qualifiers: NC,MSB						
	71.4	10.2	74.2	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1AP
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:30	Instrument ID..: I8			Analyst ID.....: 001637		
Beryllium	0.84	10.2	10.1	mg/kg	91		SW846 6020	03/02-03/17/10	LV3LM1AR
	0.84	10.2	9.9	mg/kg	89	2.1	SW846 6020	03/02-03/17/10	LV3LM1AT
			Dilution Factor: 10						
			Analysis Time..: 12:30	Instrument ID..: I8			Analyst ID.....: 001637		
Cadmium	0.23	10.2	10.0	mg/kg	96		SW846 6020	03/02-03/17/10	LV3LM1A0
	0.23	10.2	9.6	mg/kg	92	3.9	SW846 6020	03/02-03/17/10	LV3LM1A1
			Dilution Factor: 10						
			Analysis Time..: 12:30	Instrument ID..: I8			Analyst ID.....: 001637		

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	7690	1020	6770	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1AV
			Qualifiers: NC,MSB						
	7690	1020	6310	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1AW
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Chromium									
	65.3	10.2	71.1	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1A6
			Qualifiers: NC,MSB						
	65.3	10.2	70.4	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1A7
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Cobalt									
	8.6	10.2	17.9	mg/kg	91		SW846 6020	03/02-03/17/10	LV3LM1A3
	8.6	10.2	17.6	mg/kg	88	2.0	SW846 6020	03/02-03/17/10	LV3LM1A4
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Copper									
	18.2	10.2	28.3	mg/kg	98		SW846 6020	03/02-03/17/10	LV3LM1A9
	18.2	10.2	27.3	mg/kg	89	3.4	SW846 6020	03/02-03/17/10	LV3LM1CA
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Iron									
	29100	1020	27300	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1CD
			Qualifiers: NC,MSB						
	29100	1020	26000	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1CE
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Lead									
	17.8	10.2	27.1	mg/kg	92		SW846 6020	03/02-03/17/10	LV3LM1C0
	17.8	10.2	26.7	mg/kg	88	1.6	SW846 6020	03/02-03/17/10	LV3LM1C1
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium									
	3310	1020	4560	mg/kg	122		SW846 6020	03/02-03/17/10	LV3LM1CK
	3310	1020	4310	mg/kg	98	5.5	SW846 6020	03/02-03/17/10	LV3LM1CL
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Manganese									
	642	10.2	555	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1CN
			Qualifiers: NC,MSB						
	642	10.2	560	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1CP
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Mercury									
	0.045	0.17	0.21	mg/kg	95		SW846 7471A	03/02-03/04/10	LV3LM1DK
	0.045	0.17	0.21	mg/kg	97	1.3	SW846 7471A	03/02-03/04/10	LV3LM1DL
			Dilution Factor: 1						
			Analysis Time..: 09:26		Instrument ID..: H1			Analyst ID.....: 001576	
Nickel									
	37.3	10.2	48.7	mg/kg	112		SW846 6020	03/02-03/17/10	LV3LM1CV
	37.3	10.2	47.0	mg/kg	96	3.4	SW846 6020	03/02-03/17/10	LV3LM1CW
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Potassium									
	1140	1020	2000	mg/kg	84		SW846 6020	03/02-03/17/10	LV3LM1CG
	1140	1020	1960	mg/kg	81	1.8	SW846 6020	03/02-03/17/10	LV3LM1CH
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Selenium									
	1.1	10.2	9.3	mg/kg	81		SW846 6020	03/02-03/17/10	LV3LM1C6
	1.1	10.2	9.4	mg/kg	82	1.1	SW846 6020	03/02-03/17/10	LV3LM1C7
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Silver									
	0.048	10.2	10.0	mg/kg	98		SW846 6020	03/02-03/17/10	LV3LM1AD
	0.048	10.2	9.6	mg/kg	94	3.8	SW846 6020	03/02-03/17/10	LV3LM1AE
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium									
	92.3	1020	1090	mg/kg	98		SW846 6020	03/02-03/17/10	LV3LM1CR
	92.3	1020	979	mg/kg	87	11	SW846 6020	03/02-03/17/10	LV3LM1CT
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Thallium									
	0.19	10.2	8.9	mg/kg	85		SW846 6020	03/02-03/17/10	LV3LM1C9
	0.19	10.2	8.7	mg/kg	83	2.3	SW846 6020	03/02-03/17/10	LV3LM1DA
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Vanadium									
	20.9	10.2	31.5	mg/kg	105		SW846 6020	03/02-03/17/10	LV3LM1DD
	20.9	10.2	29.3	mg/kg	82	7.5	SW846 6020	03/02-03/17/10	LV3LM1DE
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	
Zinc									
	67.0	10.2	83.7	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1DG
			Qualifiers: NC,MSB						
	67.0	10.2	82.6	mg/kg			SW846 6020	03/02-03/17/10	LV3LM1DH
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
			Analysis Time..: 12:30		Instrument ID..: I8			Analyst ID.....: 001637	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10303a.prn **Acceptable Range:** 90% - 110%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck5ICV 3/3/2010 2:15 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.31	**92.2**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10304a.prn **Acceptable Range:** 90% - 110%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck5ICV 3/4/2010 7:48 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.33	**93.2**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICV 3/1/2010 8:09 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	400.0	413.80	**103.5**								
Antimony	121	80.0	81.50	**101.9**								
Arsenic	75	80.0	81.12	**101.4**								
Barium	137	80.0	81.68	**102.1**								
Beryllium	9	80.0	82.92	**103.6**								
Cadmium	111	80.0	83.82	**104.8**								
Calcium	43	40000.0	42126.67	**105.3**								
Chromium	52	80.0	83.64	**104.6**								
Cobalt	59	80.0	83.42	**104.3**								
Copper	65	80.0	84.01	**105.0**								
Iron	56	20000.0	20170.00	**100.9**								
Lead	208	80.0	80.69	**100.9**								
Magnesium	25	40000.0	41723.33	**104.3**								
Manganese	55	400.0	416.87	**104.2**								
Nickel	60	80.0	84.39	**105.5**								
Potassium	39	40000.0	40783.33	**102.0**								
Selenium	78	80.0	82.66	**103.3**								
Silver	107	80.0	84.46	**105.6**								
Sodium	23	40000.0	42020.00	**105.1**								
Thallium	205	80.0	82.82	**103.5**								
Vanadium	51	80.0	81.72	**102.2**								
Zinc	66	80.0	81.70	**102.1**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80317A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICV 3/17/2010 8:44 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	400.0	406.27	**101.6**								
Antimony	121	80.0	82.61	**103.3**								
Arsenic	75	80.0	81.35	**101.7**								
Barium	137	80.0	81.43	**101.8**								
Beryllium	9	80.0	81.42	**101.8**								
Cadmium	111	80.0	84.20	**105.2**								
Calcium	43	40000.0	41850.00	**104.6**								
Chromium	52	80.0	82.90	**103.6**								
Cobalt	59	80.0	83.16	**104.0**								
Copper	65	80.0	82.39	**103.0**								
Iron	56	20000.0	20223.33	**101.1**								
Lead	208	80.0	80.38	**100.5**								
Magnesium	25	40000.0	41240.00	**103.1**								
Manganese	55	400.0	410.87	**102.7**								
Nickel	60	80.0	83.83	**104.8**								
Potassium	39	40000.0	40596.67	**101.5**								
Selenium	78	80.0	85.22	**106.5**								
Silver	107	80.0	84.71	**105.9**								
Sodium	23	40000.0	40976.67	**102.4**								
Thallium	205	80.0	82.66	**103.3**								
Vanadium	51	80.0	80.69	**100.9**								
Zinc	66	80.0	83.09	**103.9**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80318A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICV 3/18/2010 9:13 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	400.0	387.60	**96.9**								

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: hg10303a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck2CCV 3/3/2010 2:24 PM Found	% Rec	Ck2CCV 3/3/2010 2:38 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.04	**100.8**	5.04	**100.8**						

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: hg10304a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck2CCV 3/4/2010 7:51 AM Found	% Rec	Ck2CCV 3/4/2010 9:20 AM Found	% Rec	Ck2CCV 3/4/2010 9:33 AM Found	% Rec	Ck2CCV 3/4/2010 9:47 AM Found	% Rec	Ck2CCV 3/4/2010 10:01 AM Found	% Rec
Mercury	253.7	5.0	5.12	**102.4**	5.08	**101.5**	5.08	**101.6**	5.16	**103.2**	5.12	**102.3**

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CCV 3/1/2010 8:37 AM Found	% Rec	CCV 1 3/1/2010 9:32 AM Found	% Rec	CCV 2 3/1/2010 10:28 AM Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	500.0	495.77	**99.2**	498.80	**99.8**	513.63	**102.7**				
Antimony	121	100.0	98.39	**98.4**	98.15	**98.2**	99.24	**99.2**				
Arsenic	75	100.0	99.92	**99.9**	100.93	**100.9**	99.84	**99.8**				
Barium	137	100.0	98.22	**98.2**	97.33	**97.3**	97.76	**97.8**				
Beryllium	9	100.0	95.41	**95.4**	97.43	**97.4**	94.41	**94.4**				
Cadmium	111	100.0	100.67	**100.7**	100.17	**100.2**	101.37	**101.4**				
Calcium	43	50000.0	50656.67	**101.3**	50326.67	**100.7**	50636.67	**101.3**				
Chromium	52	100.0	98.52	**98.5**	98.64	**98.6**	99.49	**99.5**				
Cobalt	59	100.0	98.55	**98.6**	98.84	**98.8**	100.40	**100.4**				
Copper	65	100.0	99.56	**99.6**	101.37	**101.4**	101.93	**101.9**				
Iron	56	25000.0	24293.33	**97.2**	24760.00	**99.0**	25073.33	**100.3**				
Lead	208	100.0	96.59	**96.6**	96.21	**96.2**	96.83	**96.8**				
Magnesium	25	50000.0	49730.00	**99.5**	49800.00	**99.6**	50830.00	**101.7**				
Manganese	55	500.0	509.80	**102.0**	504.43	**100.9**	513.93	**102.8**				
Nickel	60	100.0	99.64	**99.6**	100.67	**100.7**	100.53	**100.5**				
Potassium	39	50000.0	49183.33	**98.4**	50320.00	**100.6**	51953.33	**103.9**				
Selenium	78	100.0	101.17	**101.2**	101.77	**101.8**	103.43	**103.4**				
Silver	107	100.0	99.79	**99.8**	100.42	**100.4**	101.37	**101.4**				
Sodium	23	50000.0	49610.00	**99.2**	49270.00	**98.5**	49243.33	**98.5**				
Thallium	205	100.0	99.70	**99.7**	99.56	**99.6**	99.98	**100.0**				
Vanadium	51	100.0	96.11	**96.1**	97.03	**97.0**	97.72	**97.7**				
Zinc	66	100.0	102.10	**102.1**	101.23	**101.2**	103.83	**103.8**				

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: I80317A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CCV 3/17/2010 9:18 AM Found	% Rec	CCV 3/17/2010 10:50 AM Found	% Rec	CCV 2 3/17/2010 12:36 PM Found	% Rec	CCV 3 3/17/2010 1:37 PM Found	% Rec	CCV 4 3/17/2010 2:36 PM Found	% Rec
Aluminum	27	500.0	504.27	**100.9**	535.93	**107.2**	496.37	**99.3**	554.10	**110.8**	501.10	**100.2**
Antimony	121	100.0	99.83	**99.8**	99.59	**99.6**	99.39	**99.4**	98.06	**98.1**	100.45	**100.4**
Arsenic	75	100.0	98.93	**98.9**	99.26	**99.3**	99.61	**99.6**	99.30	**99.3**	100.43	**100.4**
Barium	137	100.0	97.77	**97.8**	98.58	**98.6**	97.78	**97.8**	98.51	**98.5**	98.72	**98.7**
Beryllium	9	100.0	95.60	**95.6**	101.57	**101.6**	97.62	**97.6**	96.95	**97.0**	100.47	**100.5**
Cadmium	111	100.0	102.83	**102.8**	101.60	**101.6**	100.48	**100.5**	101.40	**101.4**	103.17	**103.2**
Calcium	43	50000.0	50943.33	**101.9**	50523.33	**101.0**	49836.67	**99.7**	49580.00	**99.2**	50526.67	**101.1**
Chromium	52	100.0	99.34	**99.3**	101.03	**101.0**	99.58	**99.6**	100.35	**100.3**	100.13	**100.1**
Cobalt	59	100.0	101.03	**101.0**	101.60	**101.6**	100.63	**100.6**	100.67	**100.7**	102.17	**102.2**
Copper	65	100.0	99.80	**99.8**	102.13	**102.1**	100.73	**100.7**	101.97	**102.0**	100.19	**100.2**
Iron	56	25000.0	24606.67	**98.4**	25340.00	**101.4**	24560.00	**98.2**	25046.67	**100.2**	25070.00	**100.3**
Lead	208	100.0	98.82	**98.8**	98.49	**98.5**	97.79	**97.8**	97.44	**97.4**	99.38	**99.4**
Magnesium	25	50000.0	50453.33	**100.9**	50636.67	**101.3**	49403.33	**98.8**	49196.67	**98.4**	50380.00	**100.8**
Manganese	55	500.0	504.17	**100.8**	505.73	**101.1**	496.40	**99.3**	499.83	**100.0**	503.83	**100.8**
Nickel	60	100.0	101.47	**101.5**	103.93	**103.9**	99.93	**99.9**	100.55	**100.5**	102.07	**102.1**
Potassium	39	50000.0	49476.67	**99.0**	49843.33	**99.7**	49270.00	**98.5**	49073.33	**98.1**	49803.33	**99.6**
Selenium	78	100.0	98.28	**98.3**	102.00	**102.0**	101.05	**101.1**	100.47	**100.5**	101.02	**101.0**
Silver	107	100.0	101.60	**101.6**	102.67	**102.7**	101.87	**101.9**	102.47	**102.5**	102.47	**102.5**
Sodium	23	50000.0	50553.33	**101.1**	52863.33	**105.7**	51273.33	**102.5**	50986.67	**102.0**	53183.33	**106.4**
Thallium	205	100.0	101.40	**101.4**	101.07	**101.1**	101.53	**101.5**	99.79	**99.8**	102.30	**102.3**
Vanadium	51	100.0	98.46	**98.5**	100.61	**100.6**	99.24	**99.2**	99.99	**100.0**	99.23	**99.2**
Zinc	66	100.0	104.83	**104.8**	104.10	**104.1**	103.53	**103.5**	102.43	**102.4**	102.17	**102.2**

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: I80317A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CCV 5 3/17/2010 3:40 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	500.0	537.03	**107.4**								
Antimony	121	100.0	100.19	**100.2**								
Arsenic	75	100.0	100.23	**100.2**								
Barium	137	100.0	100.87	**100.9**								
Beryllium	9	100.0	101.19	**101.2**								
Cadmium	111	100.0	101.03	**101.0**								
Calcium	43	50000.0	50090.00	**100.2**								
Chromium	52	100.0	98.60	**98.6**								
Cobalt	59	100.0	98.21	**98.2**								
Copper	65	100.0	96.57	**96.6**								
Iron	56	25000.0	24513.33	**98.1**								
Lead	208	100.0	99.23	**99.2**								
Magnesium	25	50000.0	48720.00	**97.4**								
Manganese	55	500.0	497.77	**99.6**								
Nickel	60	100.0	98.00	**98.0**								
Potassium	39	50000.0	49720.00	**99.4**								
Selenium	78	100.0	105.73	**105.7**								
Silver	107	100.0	98.94	**98.9**								
Sodium	23	50000.0	46016.67	**92.0**								
Thallium	205	100.0	100.73	**100.7**								
Vanadium	51	100.0	98.72	**98.7**								
Zinc	66	100.0	101.53	**101.5**								

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: I80318A.csv **Acceptable Range:** 90% - 110%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CCV 3/18/2010 9:50 AM Found	% Rec	CCV 1 3/18/2010 10:53 AM Found	% Rec	CCV 2 3/18/2010 11:50 AM Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	500.0	505.13	**101.0**	503.00	**100.6**	520.10	**104.0**				

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10303a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck3CRA\MRL 3/3/2010 2:20 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	0.2	0.25	**125.1**								

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10304a.prn **Acceptable Range:** 80% - 120%

Standard Source: Ultra **Standard ID:**

Element	WL/ Mass	True Conc	Ck3CRA\MRL 3/4/2010 7:50 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	0.2	0.25	**124.0**								

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv **Acceptable Range:** 80% - 120%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CRI 3/1/2010 8:23 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	60.0	53.60	**89.3**								
Antimony	121	2.0	1.91	**95.4**								
Arsenic	75	5.0	5.02	**100.3**								
Barium	137	5.0	4.66	**93.2**								
Beryllium	9	1.0	1.01	**100.7**								
Cadmium	111	2.0	1.94	**96.9**								
Calcium	43	2000.0	2078.33	**103.9**								
Chromium	52	2.0	1.94	**96.8**								
Cobalt	59	1.0	1.02	**102.0**								
Copper	65	4.0	4.45	**111.3**								
Iron	56	150.0	125.80	**83.9**								
Lead	208	1.0	0.94	**94.0**								
Magnesium	25	1000.0	1022.67	**102.3**								
Manganese	55	5.0	5.31	**106.3**								
Nickel	60	5.0	5.32	**106.5**								
Potassium	39	1000.0	968.63	**96.9**								
Selenium	78	5.0	5.47	**109.3**								
Silver	107	1.0	1.07	**106.6**								
Sodium	23	1000.0	991.93	**99.2**								
Thallium	205	2.0	1.97	**98.5**								
Vanadium	51	5.0	4.86	**97.2**								
Zinc	66	40.0	39.48	**98.7**								

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80317A.csv **Acceptable Range:** 80% - 120%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CRI 3/17/2010 9:02 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	60.0	50.81	**84.7**								
Antimony	121	2.0	2.04	**102.1**								
Arsenic	75	5.0	5.20	**103.9**								
Barium	137	5.0	4.64	**92.7**								
Beryllium	9	1.0	1.07	**107.3**								
Cadmium	111	2.0	2.07	**103.6**								
Calcium	43	2000.0	2034.67	**101.7**								
Chromium	52	2.0	2.03	**101.4**								
Cobalt	59	1.0	1.03	**102.5**								
Copper	65	4.0	4.49	**112.3**								
Iron	56	150.0	163.97	**109.3**								
Lead	208	1.0	0.96	**96.4**								
Magnesium	25	1000.0	1028.07	**102.8**								
Manganese	55	5.0	5.10	**102.0**								
Nickel	60	5.0	5.35	**107.1**								
Potassium	39	1000.0	1003.60	**100.4**								
Selenium	78	5.0	4.77	**95.3**								
Silver	107	1.0	1.10	**109.7**								
Sodium	23	1000.0	1044.00	**104.4**								
Thallium	205	2.0	1.90	**94.9**								
Vanadium	51	5.0	5.01	**100.2**								
Zinc	66	40.0	41.31	**103.3**								

TestAmerica North Canton

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: I80318A.csv **Acceptable Range:** 80% - 120%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	CRI 3/18/2010 9:34 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	60.0	51.06	**85.1**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10303a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck4ICB 3/3/2010 2:16 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	0.2	U								

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10304a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck4ICB 3/4/2010 7:49 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	0.2	U								

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 3/1/2010 8:14 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U								
Antimony	121	5	1.2	U								
Arsenic	75	5	1	U								
Barium	137	10	2.6	U								
Beryllium	9	1	0.07	U								
Cadmium	111	2	0.062	U								
Calcium	43	2000	800	U								
Chromium	52	5	3.2	U								
Cobalt	59	5	0.09	U								
Copper	65	5	2.2	U								
Iron	56	500	218	U								
Lead	208	3	1.4	U								
Magnesium	25	1000	178	U								
Manganese	55	10	3.2	U								
Nickel	60	10	1.7	U								
Potassium	39	1000	76	U								
Selenium	78	5	0.42	U								
Silver	107	5	0.052	U								
Sodium	23	1000	280	U								
Thallium	205	2	1.1	U								
Vanadium	51	10	0.86	U								
Zinc	66	40	20	U								

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80317A.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 3/17/2010 8:51 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U								
Antimony	121	5	1.2	U								
Arsenic	75	5	1	U								
Barium	137	10	2.6	U								
Beryllium	9	1	0.07	U								
Cadmium	111	2	0.062	U								
Calcium	43	2000	800	U								
Chromium	52	5	3.2	U								
Cobalt	59	5	0.09	U								
Copper	65	5	2.2	U								
Iron	56	500	218	U								
Lead	208	3	1.4	U								
Magnesium	25	1000	178	U								
Manganese	55	10	3.2	U								
Nickel	60	10	1.7	U								
Potassium	39	1000	76	U								
Selenium	78	5	0.42	U								
Silver	107	5	0.052	U								
Sodium	23	1000	280	U								
Thallium	205	2	1.1	U								
Vanadium	51	10	0.86	U								
Zinc	66	40	20	U								

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80318A.csv

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	ICB 3/18/2010 9:19 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U								

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10303a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck1CCB 3/3/2010 2:25 PM Found	Q	Ck1CCB 3/3/2010 2:39 PM Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	0.2	U	0.2	U						

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10304a.prn

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	Ck1CCB 3/4/2010 7:52 AM Found	Q	Ck1CCB 3/4/2010 9:21 AM Found	Q	Ck1CCB 3/4/2010 9:34 AM Found	Q	Ck1CCB 3/4/2010 9:48 AM Found	Q	Ck1CCB 3/4/2010 10:02 AM Found	Q
Mercury	253.7	0.6	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB 3/1/2010 8:42 AM Found	Q	CCB 1 3/1/2010 9:38 AM Found	Q	CCB 2 3/1/2010 10:33 AM Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U	50	U	50	U				
Antimony	121	5	1.2	U	1.2	U	1.2	U				
Arsenic	75	5	1	U	1	U	1	U				
Barium	137	10	2.6	U	2.6	U	2.6	U				
Beryllium	9	1	0.07	U	0.07	U	0.07	U				
Cadmium	111	2	0.062	U	0.062	U	0.062	U				
Calcium	43	2000	800	U	800	U	800	U				
Chromium	52	5	3.2	U	3.2	U	3.2	U				
Cobalt	59	5	0.09	U	0.09	U	0.09	U				
Copper	65	5	2.2	U	2.2	U	2.2	U				
Iron	56	500	218	U	218	U	218	U				
Lead	208	3	1.4	U	1.4	U	1.4	U				
Magnesium	25	1000	178	U	178	U	178	U				
Manganese	55	10	3.2	U	3.2	U	3.2	U				
Nickel	60	10	1.7	U	1.7	U	1.7	U				
Potassium	39	1000	76	U	76	U	76	U				
Selenium	78	5	0.42	U	0.42	U	0.42	U				
Silver	107	5	0.052	U	0.052	U	0.052	U				
Sodium	23	1000	280	U	280	U	280	U				
Thallium	205	2	1.1	U	1.1	U	1.1	U				
Vanadium	51	10	0.86	U	0.86	U	0.86	U				
Zinc	66	40	20	U	20	U	20	U				

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80317A.csv

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB 3/17/2010 9:25 AM Found	Q	CCB 3/17/2010 10:57 AM Found	Q	CCB 2 3/17/2010 12:42 PM Found	Q	CCB 3 3/17/2010 1:44 PM Found	Q	CCB 4 3/17/2010 2:43 PM Found	Q
Aluminum	27	100	50	U	50	U	50	U	50	U	50	U
Antimony	121	5	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
Arsenic	75	5	1	U	1	U	1	U	1	U	1	U
Barium	137	10	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
Beryllium	9	1	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U
Cadmium	111	2	0.062	U	**0.091**	**B**	0.062	U	**0.065**	**B**	0.062	U
Calcium	43	2000	800	U	800	U	800	U	800	U	800	U
Chromium	52	5	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
Cobalt	59	5	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
Copper	65	5	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
Iron	56	500	218	U	218	U	218	U	218	U	218	U
Lead	208	3	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Magnesium	25	1000	178	U	178	U	178	U	178	U	178	U
Manganese	55	10	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
Nickel	60	10	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Potassium	39	1000	76	U	76	U	76	U	76	U	76	U
Selenium	78	5	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
Silver	107	5	0.052	U	**0.079**	**B**	0.052	U	0.052	U	0.052	U
Sodium	23	1000	280	U	280	U	280	U	280	U	280	U
Thallium	205	2	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Vanadium	51	10	0.86	U	0.86	U	0.86	U	0.86	U	0.86	U
Zinc	66	40	20	U	20	U	20	U	20	U	20	U

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80317A.csv

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB 5 3/17/2010 3:47 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U								
Antimony	121	5	1.2	U								
Arsenic	75	5	1	U								
Barium	137	10	2.6	U								
Beryllium	9	1	0.07	U								
Cadmium	111	2	**0.11**	**B**								
Calcium	43	2000	800	U								
Chromium	52	5	3.2	U								
Cobalt	59	5	**0.12**	**B**								
Copper	65	5	2.2	U								
Iron	56	500	218	U								
Lead	208	3	1.4	U								
Magnesium	25	1000	178	U								
Manganese	55	10	3.2	U								
Nickel	60	10	1.7	U								
Potassium	39	1000	76	U								
Selenium	78	5	0.42	U								
Silver	107	5	**0.11**	**B**								
Sodium	23	1000	280	U								
Thallium	205	2	1.1	U								
Vanadium	51	10	0.86	U								
Zinc	66	40	20	U								

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: I80318A.csv

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB 3/18/2010 9:57 AM Found	Q	CCB 1 3/18/2010 10:59 AM Found	Q	CCB 2 3/18/2010 11:57 AM Found	Q	Found	Q	Found	Q
Aluminum	27	100	50	U	50	U	50	U				

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/1/2010 8:28 AM Found	Found	Found	Found	Found
Aluminum	27		50000	51400				
Antimony	121	5		0.140				
Arsenic	75	5		0.091				
Barium	137	10		0.700				
Beryllium	9	1		0.010				
Cadmium	111	2		0.027				
Calcium	43		50000	54900				
Chromium	52	5		0.510				
Cobalt	59	5		0.055				
Copper	65	5		0.260				
Iron	56		50000	50300				
Lead	208	3		0.086				
Magnesium	25		50000	52800				
Manganese	55	10		2				
Nickel	60	10		0.420				
Potassium	39	1000	50000	51600				
Selenium	78	5		0.076				
Silver	107	5		0.035				
Sodium	23	1000	50000	52100				
Thallium	205	2		0.071				
Vanadium	51	10		-0.400				
Zinc	66	40		-2.500				

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPMS **Units:** ug/L

Chart Number: I80317A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/17/2010 9:07 AM Found	Found	Found	Found	Found
Aluminum	27		50000	51600				
Antimony	121	5		0.120				
Arsenic	75	5		0.110				
Barium	137	10		0.052				
Beryllium	9	1		-0.002				
Cadmium	111	2		-0.010				
Calcium	43		50000	53000				
Chromium	52	5		0.590				
Cobalt	59	5		0.059				
Copper	65	5		0.021				
Iron	56		50000	51400				
Lead	208	3		0.099				
Magnesium	25		50000	52700				
Manganese	55	10		0.090				
Nickel	60	10		0.330				
Potassium	39	1000	50000	50900				
Selenium	78	5		-0.058				
Silver	107	5		0.065				
Sodium	23	1000	50000	51200				
Thallium	205	2		-0.012				
Vanadium	51	10		0.043				
Zinc	66	40		0.620				

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPMS **Units:** ug/L

Chart Number: I80318A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/18/2010 9:39 AM Found	Found	Found	Found	Found
Aluminum	27		50000	50400				

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPMS **Units:** ug/L

Chart Number: I80301A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICSAB 3/1/2010 8:32 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	50000	51306.7	**102.6**								
Antimony	121	100	100.4	**100.4**								
Arsenic	75	100	97.5	**97.5**								
Barium	137	100	99.9	**99.9**								
Beryllium	9	100	98.6	**98.6**								
Cadmium	111	100	101.1	**101.1**								
Calcium	43	50000	54230.0	**108.5**								
Chromium	52	100	104.0	**104.0**								
Cobalt	59	100	98.6	**98.6**								
Copper	65	100	99.1	**99.1**								
Iron	56	50000	51153.3	**102.3**								
Lead	208	100	99.1	**99.1**								
Magnesium	25	50000	52663.3	**105.3**								
Manganese	55	100	110.1	**110.1**								
Nickel	60	100	103.2	**103.2**								
Potassium	39	50000	51626.7	**103.3**								
Selenium	78	100	103.0	**103.0**								
Silver	107	100	99.9	**99.9**								
Sodium	23	50000	53396.7	**106.8**								
Thallium	205	100	102.8	**102.8**								
Vanadium	51	100	100.8	**100.8**								
Zinc	66	100	99.9	**99.9**								

N Spike recovery failed
NC Percent recovery was not calculated
U Result is less than the IDL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPMS **Units:** ug/L

Chart Number: I80317A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICSAB 3/17/2010 9:11 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	50000	51130.0	**102.3**								
Antimony	121	100	101.2	**101.2**								
Arsenic	75	100	96.3	**96.3**								
Barium	137	100	98.9	**98.9**								
Beryllium	9	100	96.2	**96.2**								
Cadmium	111	100	100.8	**100.8**								
Calcium	43	50000	51630.0	**103.3**								
Chromium	52	100	101.1	**101.1**								
Cobalt	59	100	97.5	**97.5**								
Copper	65	100	96.8	**96.8**								
Iron	56	50000	50550.0	**101.1**								
Lead	208	100	99.1	**99.1**								
Magnesium	25	50000	52590.0	**105.2**								
Manganese	55	100	103.1	**103.1**								
Nickel	60	100	99.7	**99.7**								
Potassium	39	50000	50310.0	**100.6**								
Selenium	78	100	99.2	**99.2**								
Silver	107	100	100.6	**100.6**								
Sodium	23	50000	52326.7	**104.7**								
Thallium	205	100	101.8	**101.8**								
Vanadium	51	100	100.5	**100.5**								
Zinc	66	100	100.9	**100.9**								

N Spike recovery failed
NC Percent recovery was not calculated
U Result is less than the IDL

Form 4 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPMS **Units:** ug/L

Chart Number: I80318A.csv **Acceptable Range:** 50% - 150%

Standard Source: **Standard ID:**

Element	WL/ Mass	True Conc	ICSAB 3/18/2010 9:43 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	50000	49540.0	**99.1**								

N Spike recovery failed
NC Percent recovery was not calculated
U Result is less than the IDL

TestAmerica North Canton

Metals Data Reporting Form

Post Digest Spike Sample Results

Spike Sample ID: LV3K1A

Original Sample ID: LV3K1 **Client ID:** ATASB-010-5141-SO

Matrix: Solid **Units:** ug/L **Prep Date:** 2/26/2010 **Prep Batch:** 0057017

Weight: NA **Volume:** NA **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	PDS Conc	Q	Spike Level	% Rec	OS DF	PDS DF	Instr	OS Anal Date	OS Anal Time	PDS Anal Date	PDS Anal Time
Antimony	121	1.2	B	99.4		100	98.2	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Arsenic	75	88.1		179		100	90.4	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Beryllium	9	3.0		104		100	100.7	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Cadmium	111	0.21	B	100		100	100.0	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Calcium	43	4120		15000		10000	108.3	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Cobalt	59	43.0		146		100	103.0	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Copper	65	84.4		184		100	99.8	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Selenium	78	6.6		94.1		100	87.5	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Silver	107	0.18	B	104		100	104.1	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Sodium	23	781	B	11400		10000	105.9	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Thallium	205	1.5	B	106		100	104.5	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51
Zinc	66	318		406		100	88.0	1	1	ICPMS	3/1/2010	9:42	3/1/2010	9:51

Comments:

5.04.5

N Spike recovery failed
NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 5B Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Post Digest Spike Sample Results

Spike Sample ID: LV3LMA

Original Sample ID: LV3LM **Client ID:** F16SS-027M-5432-SO

Matrix: Solid **Units:** ug/L **Prep Date:** 3/2/2010 **Prep Batch:** 0061017

Weight: NA **Volume:** NA **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	PDS Conc	Q	Spike Level	% Rec	OS DF	PDS DF	Instr	OS Anal Date	OS Anal Time	PDS Anal Date	PDS Anal Time
Aluminum	27	127000		131000	NC	10000	0.0	1	1	ICPMS	3/17/2010	12:21	3/18/2010	10:02
Antimony	121	1.6	B	106		100	104.2	1	1	ICPMS	3/17/2010	12:21	3/17/2010	12:53
Cadmium	111	2.2		106		100	103.5	1	1	ICPMS	3/17/2010	12:21	3/17/2010	12:53
Magnesium	25	32400		42600		10000	101.9	1	1	ICPMS	3/17/2010	12:21	3/17/2010	12:53
Selenium	78	10.4		107		100	96.2	1	1	ICPMS	3/17/2010	12:21	3/17/2010	12:53
Silver	107	0.47	B	105		100	104.5	1	1	ICPMS	3/17/2010	12:21	3/17/2010	12:53
Sodium	23	905	B	11500		10000	106.2	1	1	ICPMS	3/17/2010	12:21	3/17/2010	12:53
Thallium	205	1.8	B	106		100	104.4	1	1	ICPMS	3/17/2010	12:21	3/17/2010	12:53
Zinc	66	657		733	NC	100	0.0	1	1	ICPMS	3/17/2010	12:21	3/17/2010	12:53

Comments:

5.04.5

N Spike recovery failed
NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 5B Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: LV3K1L

Original Sample ID: LV3K1 **Client ID:** ATASB-010-5141-SO

Matrix: Solid **Units:** ug/L **Prep Date:** 2/26/2010 **Prep Batch:** 0057017

Weight: NA **Volume:** NA **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	27	117000		124000		5.8	1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Antimony	121	1.2	B	3.1	U		1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Arsenic	75	88.1		98.8			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Barium	137	364		367			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Beryllium	9	3.0		3.2	B		1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Cadmium	111	0.21	B	0.28	B		1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Calcium	43	4120		4210	B		1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Chromium	52	137		140			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Cobalt	59	43.0		43.9			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Copper	65	84.4		91.4			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Iron	56	192000		193000		0.5	1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Lead	208	92.5		94.2			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Magnesium	25	20200		20800			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Manganese	55	1400		1450		3.4	1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Mercury	253.7	0.22	B	0.42	U	100.0	1	5	CVAA	3/3/2010	14:28	3/3/2010	14:29
Nickel	60	94.7		100			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Potassium	39	7020		7220			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Selenium	78	6.6		7.7	B		1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Silver	107	0.18	B	0.22	B		1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Sodium	23	781	B	799	B		1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Thallium	205	1.5	B	2.8	U		1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Vanadium	51	229		235			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47
Zinc	66	318		347			1	5	ICPMS	3/1/2010	9:42	3/1/2010	9:47

Comments:

5.04.5

E Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: LV3LML

Original Sample ID: LV3LM **Client ID:** F16SS-027M-5432-SO

Matrix: Solid **Units:** ug/L **Prep Date:** 3/2/2010 **Prep Batch:** 0061017

Weight: NA **Volume:** NA **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	27	127000		140000	E	10.6	1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Antimony	121	1.6	B	3.1	U		1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Arsenic	75	96.5		105			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Barium	137	700		706			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Beryllium	9	8.3		8.4			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Cadmium	111	2.2		2.6	B		1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Calcium	43	75300		79400			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Chromium	52	640		675		5.5	1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Cobalt	59	84.5		89.2			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Copper	65	179		195			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Iron	56	285000		303000		6.2	1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Lead	208	174		179			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Magnesium	25	32400		36200			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Manganese	55	6300		6520		3.6	1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Mercury	253.7	0.26	B	0.42	U	100.0	1	5	CVAA	3/4/2010	9:24	3/4/2010	9:25
Nickel	60	365		397			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Potassium	39	11100		11600			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Selenium	78	10.4		13.2	B		1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Silver	107	0.47	B	0.49	B		1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Sodium	23	905	B	1030	B		1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Thallium	205	1.8	B	2.8	U		1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Vanadium	51	204		215			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26
Zinc	66	657		726			1	5	ICPMS	3/17/2010	12:21	3/17/2010	12:26

Comments:

5.04.5

E Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Units: mg/kg

Element	Reporting Limit	Raw Method Detection Limit
Aluminum	10	2.49
Antimony	0.5	0.0620
Arsenic	0.5	0.0522
Barium	1	0.13
Beryllium	0.1	0.0035
Cadmium	0.2	0.0031
Calcium	200	40.05
Chromium	0.5	0.16
Cobalt	0.5	0.0045
Copper	0.5	0.11
Iron	50	10.91
Lead	0.3	0.0705
Magnesium	100	8.90
Manganese	1	0.16
Mercury	0.1	0.014
Nickel	1	0.0864
Potassium	100	3.76
Selenium	0.5	0.0207
Silver	0.5	0.0026
Sodium	100	14.01
Thallium	0.2	0.0562
Vanadium	1	0.0432
Zinc	4	1.00

TestAmerica North Canton

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPMS **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	27.00	500000	09/30/09
Antimony	121.00	1000	09/30/09
Arsenic	75.00	10000	09/29/09
Barium	137.00	10000	09/29/09
Beryllium	9.00	10000	09/29/09
Cadmium	111.00	10000	09/29/09
Calcium	43.00	500000	09/30/09
Chromium	52.00	10000	09/29/09
Cobalt	59.00	10000	09/29/09
Copper	65.00	10000	09/29/09
Iron	56.00	500000	09/30/09
Lead	208.00	10000	09/29/09
Magnesium	25.00	350000	09/30/09
Manganese	55.00	10000	09/29/09
Nickel	60.00	10000	09/29/09
Potassium	39.00	350000	09/30/09
Selenium	78.00	10000	09/29/09
Silver	107.00	10000	09/29/09
Sodium	23.00	500000	09/30/09
Thallium	205.00	10000	09/29/09
Vanadium	51.00	10000	09/29/09
Zinc	66.00	10000	09/29/09

Batch Number: **0057017**

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: Lisa McGall (e-Signature)

Prep Date: 02/26/10
Due Date: 03/04/10

Lot	Work Order			ICP Weight	ICPMS Weight	Hg Weight
A0B260000 Solid	LV4H9	B	Due Date: SDG:		1.00 g	0.60 g
A0B260000 Solid	LV4H9	C	Due Date: SDG:		1.00 g	0.60 g
A0B250453 Solid	LV3H6 Total		Due Date: 03/04/10 SDG:		1.00 g	0.60 g
A0B250453 Solid	LV3JM Total		Due Date: 03/04/10 SDG:		1.00 g	0.60 g
A0B250453 Solid	LV3JV Total		Due Date: 03/04/10 SDG:		1.00 g	0.60 g
A0B250453 Solid	LV3JW Total		Due Date: 03/04/10 SDG:		1.00 g	0.60 g
A0B250453 Solid	LV3J1 Total		Due Date: 03/04/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3K1 Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3K1 Total	S	Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3K1 Total	D	Due Date: 03/18/10 SDG:		1.00 g	0.60 g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH	X
MS/MSD AND PDS ON BATCH	X
CORRECT SPIKES ADDED	X
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG	X

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

Unless otherwise noted, final volumes are as follows: Soils - 100 mL. Waters - ICP and ICPMS - 50 mL, Hg - 100 mL.

Low Level Hg: final volumes are 40 mL.

ICPMS ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN NA NI PB SB SE TL VX ZN

Matrix Spike Information:

LV3K1	Hg	ICPMS-1	ICPMS-2

Check Sample Information:

LV4H9	Hg	ICPMS-1	ICPMS-2

Prep Method(s): SW846 3050B, SW846 7471A

Batch Number: **0061017**

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: Lisa McGall (e-Signature)

Prep Date: 03/02/10
Due Date: 03/18/10

Lot	Work Order			ICP Weight	ICPMS Weight	Hg Weight
A0C020000 Solid	LV63K	B	Due Date: SDG:		1.00 g	0.60 g
A0C020000 Solid	LV63K	C	Due Date: SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3KM Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3KN Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3KP Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3KQ Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3KR Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3KT Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3KW Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3KX Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3K3 Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3K7 Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3K8 Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3K9 Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3LA Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3LC Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3LE Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3LJ Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3LM Total		Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3LM Total	S	Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3LM Total	D	Due Date: 03/18/10 SDG:		1.00 g	0.60 g
A0B250463 Solid	LV3LT Total		Due Date: 03/18/10 SDG:		1.00 g	

Batch Number: **0061017**

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: Lisa McGall (e-Signature)

Prep Date: 03/02/10
Due Date: 03/18/10

Lot	Work Order		ICP Weight	ICPMS Weight	Hg Weight
A0B250463 Solid	LV3LW Total	Due Date: 03/18/10 SDG:		1.00 g	
A0B250463 Solid	LV3LX Total	Due Date: 03/18/10 SDG:		1.00 g	

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH	X
MS/MSD AND PDS ON BATCH	X
CORRECT SPIKES ADDED	X
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG	X

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

Unless otherwise noted, final volumes are as follows: Soils - 100 mL. Waters - ICP and ICPMS - 50 mL, Hg - 100 mL.

Low Level Hg: final volumes are 40 mL.

ICPMS ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN NA NI PB SB SE TL VX ZN

Matrix Spike Information:

LV3LM	Hg	ICPMS-1	ICPMS-2

Check Sample Information:

LV63K	Hg	ICPMS-1	ICPMS-2

Prep Method(s): SW846 3050B, SW846 7471A

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	03-MAR-2010	14:08:32			H1
2	STD2REP1	1	03-MAR-2010	14:09:38			H1
3	STD3REP1	1	03-MAR-2010	14:10:45			H1
4	STD4REP1	1	03-MAR-2010	14:11:55			H1
5	STD5REP1	1	03-MAR-2010	14:13:06			H1
6	STD6REP1	1	03-MAR-2010	14:14:22			H1
7	CK5ICV	1	03-MAR-2010	14:15:44			H1
8	CK4ICB	1	03-MAR-2010	14:16:52			H1
9	CK3CRA\MRL	1	03-MAR-2010	14:17:58			H1
10	CK3CRA\MRL	1	03-MAR-2010	14:20:07			H1
11	CK2CCV	1	03-MAR-2010	14:24:08			H1
12	CK1CCB	1	03-MAR-2010	14:25:26			H1
13	LV4H9B	1	03-MAR-2010	14:26:33	0057017	A0B260000	H1
14	LV4H9C	1	03-MAR-2010	14:27:39	0057017	A0B260000	H1
15	LV3K1	1	03-MAR-2010	14:28:43	0057017	A0B250463	H1
16	LV3K1L	1	03-MAR-2010	14:29:49			H1
17	LV3K1S	1	03-MAR-2010	14:31:04	0057017	A0B250463	H1
18	LV3K1D	1	03-MAR-2010	14:32:11	0057017	A0B250463	H1
19	LV3J1	1	03-MAR-2010	14:33:16	0057017	A0B250453	H1
20	LV3JV	1	03-MAR-2010	14:34:35	0057017	A0B250453	H1
21	LV3JM	1	03-MAR-2010	14:35:43	0057017	A0B250453	H1
22	LV3H6	1	03-MAR-2010	14:36:48	0057017	A0B250453	H1
23	CK2CCV	1	03-MAR-2010	14:38:17			H1
24	CK1CCB	1	03-MAR-2010	14:39:26			H1
25	LV3JW	1	03-MAR-2010	14:40:34	0057017	A0B250453	H1
26	LV593B	1	03-MAR-2010	14:41:54	0060022	A0C010000	H1
27	LV593C	1	03-MAR-2010	14:43:13	0060022	A0C010000	H1
28	LV505	1	03-MAR-2010	14:44:21	0060022	A0B270425	H1
29	LV505S	1	03-MAR-2010	14:45:26	0060022	A0B270425	H1
30	LV505D	1	03-MAR-2010	14:46:34	0060022	A0B270425	H1
31	LV51H	1	03-MAR-2010	14:47:39	0060022	A0B270425	H1
32	LV51K	1	03-MAR-2010	14:48:45	0060022	A0B270425	H1
33	LV51C	1	03-MAR-2010	14:49:51	0060022	A0B270425	H1
34	LV51A	1	03-MAR-2010	14:50:57	0060022	A0B270425	H1
35	CK2CCV	1	03-MAR-2010	14:52:02			H1
36	CK1CCB	1	03-MAR-2010	14:53:18			H1
37	LV51F	1	03-MAR-2010	14:54:25	0060022	A0B270425	H1
38	LV509	1	03-MAR-2010	14:55:35	0060022	A0B270425	H1
39	LV4JCB	1	03-MAR-2010	14:56:44	0057019	A0B260000	H1
40	LV4JCC	1	03-MAR-2010	14:57:49	0057019	A0B260000	H1
41	LV3CK	1	03-MAR-2010	14:58:53	0057019	A0B250428	H1
42	LV3CKS	1	03-MAR-2010	15:00:00	0057019	A0B250428	H1
43	LV3CKD	1	03-MAR-2010	15:01:08	0057019	A0B250428	H1
44	LV3DC	1	03-MAR-2010	15:02:16	0057019	A0B250428	H1

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	LV3DE	1	03-MAR-2010	15:03:21	0057019	A0B250428	H1
46	LV3DA	1	03-MAR-2010	15:04:31	0057019	A0B250428	H1
47	CK2CCV	1	03-MAR-2010	15:05:36			H1
48	CK1CCB	1	03-MAR-2010	15:06:41			H1
49	LV3DH	1	03-MAR-2010	15:07:46	0057019	A0B250428	H1
50	LV591B	1	03-MAR-2010	15:09:12	0060020	A0C010000	H1
51	LV591C	1	03-MAR-2010	15:10:21	0060020	A0C010000	H1
52	LV41M	1	03-MAR-2010	15:11:28	0060020	A0B260454	H1
53	LV41ML	1	03-MAR-2010	15:12:36			H1
54	LV41MS	1	03-MAR-2010	15:14:12	0060020	A0B260454	H1
55	LV41MD	1	03-MAR-2010	15:15:31	0060020	A0B260454	H1
56	LV42P	1	03-MAR-2010	15:16:39	0060020	A0B260454	H1
57	LV421	1	03-MAR-2010	15:17:45	0060020	A0B260454	H1
58	LV414	1	03-MAR-2010	15:18:51	0060020	A0B260454	H1
59	CK2CCV	1	03-MAR-2010	15:20:06			H1
60	CK1CCB	1	03-MAR-2010	15:21:11			H1
61	LV41R	1	03-MAR-2010	15:22:26	0060020	A0B260454	H1
62	LV412	1	03-MAR-2010	15:23:33	0060020	A0B260454	H1
63	LV4X4	1	03-MAR-2010	15:24:50	0060020	A0B260445	H1
64	LV43E	1	03-MAR-2010	15:25:57	0060020	A0B260454	H1
65	LV42V	1	03-MAR-2010	15:27:03	0060020	A0B260454	H1
66	LV42W	1	03-MAR-2010	15:28:34	0060020	A0B260454	H1
67	LV41V	1	03-MAR-2010	15:29:43	0060020	A0B260454	H1
68	LV63FB	1	03-MAR-2010	15:31:19	0061015	A0C020000	H1
69	LV63FC	1	03-MAR-2010	15:32:34	0061015	A0C020000	H1
70	LV6T7	1	03-MAR-2010	15:33:55	0061015	A0C010456	H1
71	CK2CCV	1	03-MAR-2010	15:35:00			H1
72	CK1CCB	1	03-MAR-2010	15:36:05			H1
73	LV6T7S	1	03-MAR-2010	15:37:42	0061015	A0C010456	H1
74	LV6T7D	1	03-MAR-2010	15:38:58	0061015	A0C010456	H1
75	LV6VK	1	03-MAR-2010	15:40:06	0061015	A0C010456	H1
76	LV6WF	1	03-MAR-2010	15:41:13	0061015	A0C010456	H1
77	LV6VL	1	03-MAR-2010	15:42:22	0061015	A0C010456	H1
78	LV6VG	1	03-MAR-2010	15:43:39	0061015	A0C010456	H1
79	LV595B	1	03-MAR-2010	15:44:47	0060023	A0C010000	H1
80	LV595C	1	03-MAR-2010	15:46:07	0060023	A0C010000	H1
81	LV4V5	1	03-MAR-2010	15:47:15	0060023	A0B260437	H1
82	LV4V5S	1	03-MAR-2010	15:48:26	0060023	A0B260437	H1
83	CK2CCV	1	03-MAR-2010	15:49:35			H1
84	CK1CCB	1	03-MAR-2010	15:50:41			H1
85	LV4V5D	1	03-MAR-2010	15:51:56	0060023	A0B260437	H1
86	LV4V6	1	03-MAR-2010	15:53:05			H1
87	LV63HB	1	03-MAR-2010	15:54:13	0061016	A0C020000	H1
88	LV63HC	1	03-MAR-2010	15:55:20	0061016	A0C020000	H1

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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	LV6JK	1	03-MAR-2010	15:56:27	0061016	A0C010410	H1
90	LV6JKS	1	03-MAR-2010	15:57:33	0061016	A0C010410	H1
91	LV6JKD	1	03-MAR-2010	15:59:01	0061016	A0C010410	H1
92	LV6JM	1	03-MAR-2010	16:00:09	0061016	A0C010410	H1
93	LV6JJ	1	03-MAR-2010	16:01:15	0061016	A0C010410	H1
94	LV6HT	1	03-MAR-2010	16:02:23	0061016	A0C010410	H1
95	CK2CCV	1	03-MAR-2010	16:03:39			H1
96	CK1CCB	1	03-MAR-2010	16:04:45			H1
97	LV6HN	1	03-MAR-2010	16:06:21	0061016	A0C010410	H1
98	LV6JE	1	03-MAR-2010	16:07:27	0061016	A0C010410	H1
99	LV6JA	1	03-MAR-2010	16:08:43	0061016	A0C010410	H1
100	LV6HR	1	03-MAR-2010	16:09:51	0061016	A0C010410	H1
101	LV6JQ	1	03-MAR-2010	16:10:59	0061016	A0C010410	H1
102	LV6H8	1	03-MAR-2010	16:12:06	0061016	A0C010410	H1
103	LV6HL	1	03-MAR-2010	16:13:18	0061016	A0C010410	H1
104	LV6HP	1	03-MAR-2010	16:14:28	0061016	A0C010410	H1
105	LV6HV	1	03-MAR-2010	16:15:44	0061016	A0C010410	H1
106	LV6JH	1	03-MAR-2010	16:16:50	0061016	A0C010410	H1
107	CK2CCV	1	03-MAR-2010	16:17:57			H1
108	CK1CCB	1	03-MAR-2010	16:19:16			H1
109	LV6HX	1	03-MAR-2010	16:20:28	0061016	A0C010410	H1
110	LV6HJ	1	03-MAR-2010	16:21:35	0061016	A0C010410	H1
111	LV6JR	1	03-MAR-2010	16:22:46	0061016	A0C010410	H1
112	LV6JD	1	03-MAR-2010	16:23:57	0061016	A0C010410	H1
113	CK2CCV	1	03-MAR-2010	16:25:03			H1
114	CK1CCB	1	03-MAR-2010	16:26:08			H1

End of Report

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:       Instrument Upload                                    Run Log - Page  1 :
:       Started Fri Mar  5 06:03:45 2010 by TOTHR                              :
:       Data File: UPL$CAN_DATA_ROOT:<LHG>HG10304A.PRN;1                       :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	04-MAR-2010	07:41:08			H1
2	STD2REP1	1	04-MAR-2010	07:42:23			H1
3	STD3REP1	1	04-MAR-2010	07:43:28			H1
4	STD4REP1	1	04-MAR-2010	07:44:34			H1
5	STD5REP1	1	04-MAR-2010	07:45:39			H1
6	STD6REP1	1	04-MAR-2010	07:46:49			H1
7	CK5ICV	1	04-MAR-2010	07:48:06			H1
8	CK4ICB	1	04-MAR-2010	07:49:12			H1
9	CK3CRA\MRL	1	04-MAR-2010	07:50:31			H1
10	CK2CCV	1	04-MAR-2010	07:51:36			H1
11	CK1CCB	1	04-MAR-2010	07:52:47			H1
12	CK2CCV	1	04-MAR-2010	09:20:03			H1
13	CK1CCB	1	04-MAR-2010	09:21:09			H1
14	LV63KB	1	04-MAR-2010	09:22:24	0061017	A0C020000	H1
15	LV63KC	1	04-MAR-2010	09:23:30	0061017	A0C020000	H1
16	LV3LM	1	04-MAR-2010	09:24:35	0061017	A0B250463	H1
17	LV3LML	1	04-MAR-2010	09:25:49			H1
18	LV3LMS	1	04-MAR-2010	09:26:56	0061017	A0B250463	H1
19	LV3LMD	1	04-MAR-2010	09:28:05	0061017	A0B250463	H1
20	LV3K7	1	04-MAR-2010	09:29:20	0061017	A0B250463	H1
21	LV3K8	1	04-MAR-2010	09:30:25	0061017	A0B250463	H1
22	LV3KN	1	04-MAR-2010	09:31:34	0061017	A0B250463	H1
23	LV3LA	1	04-MAR-2010	09:32:40	0061017	A0B250463	H1
24	CK2CCV	1	04-MAR-2010	09:33:48			H1
25	CK1CCB	1	04-MAR-2010	09:34:56			H1
26	LV3LC	1	04-MAR-2010	09:36:02	0061017	A0B250463	H1
27	LV3LJ	1	04-MAR-2010	09:37:07	0061017	A0B250463	H1
28	LV3K3	1	04-MAR-2010	09:38:12	0061017	A0B250463	H1
29	LV3LE	1	04-MAR-2010	09:39:17	0061017	A0B250463	H1
30	LV3KM	1	04-MAR-2010	09:40:28	0061017	A0B250463	H1
31	LV3KW	1	04-MAR-2010	09:41:34	0061017	A0B250463	H1
32	LV3KR	1	04-MAR-2010	09:42:59	0061017	A0B250463	H1
33	LV3KX	1	04-MAR-2010	09:44:09	0061017	A0B250463	H1
34	LV3K9	1	04-MAR-2010	09:45:17	0061017	A0B250463	H1
35	LV3KQ	1	04-MAR-2010	09:46:24	0061017	A0B250463	H1
36	CK2CCV	1	04-MAR-2010	09:47:40			H1
37	CK1CCB	1	04-MAR-2010	09:48:57			H1
38	LV3KT	1	04-MAR-2010	09:50:12	0061017	A0B250463	H1
39	LV3KP	1	04-MAR-2010	09:51:18	0061017	A0B250463	H1
40	LV78WB	1	04-MAR-2010	09:52:28	0062015	A0C030000	H1
41	LV78WC	1	04-MAR-2010	09:53:37	0062015	A0C030000	H1
42	LV7LD	1	04-MAR-2010	09:54:42	0062015	A0C020458	H1
43	LV7LDL	1	04-MAR-2010	09:55:50			H1
44	LV7LDS	1	04-MAR-2010	09:56:55	0062015	A0C020458	H1

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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	LV7LDD	1	04-MAR-2010	09:58:03	0062015	A0C020458	H1
46	LV7LA	1	04-MAR-2010	09:59:12	0062015	A0C020458	H1
47	LV7LX	1	04-MAR-2010	10:00:33	0062015	A0C020458	H1
48	CK2CCV	1	04-MAR-2010	10:01:38			H1
49	CK1CCB	1	04-MAR-2010	10:02:55			H1
50	LV7LC	1	04-MAR-2010	10:04:10	0062015	A0C020458	H1
51	LV7JG	1	04-MAR-2010	10:05:17	0062015	A0C020447	H1
52	LV7K8	1	04-MAR-2010	10:06:23	0062015	A0C020458	H1
53	LV7LF	1	04-MAR-2010	10:07:31	0062015	A0C020458	H1
54	LV7LH	1	04-MAR-2010	10:08:37	0062015	A0C020458	H1
55	LV7L0	1	04-MAR-2010	10:09:44	0062015	A0C020458	H1
56	LV7LM	1	04-MAR-2010	10:10:52	0062015	A0C020458	H1
57	LV7LJ	1	04-MAR-2010	10:11:57	0062015	A0C020458	H1
58	LV7HR	1	04-MAR-2010	10:13:02	0062015	A0C020447	H1
59	LV7L1	1	04-MAR-2010	10:14:17	0062015	A0C020458	H1
60	CK2CCV	1	04-MAR-2010	10:15:26			H1
61	CK1CCB	1	04-MAR-2010	10:16:32			H1
62	LV7JH	1	04-MAR-2010	10:17:38	0062015	A0C020447	H1
63	LV7LP	1	04-MAR-2010	10:18:44	0062015	A0C020458	H1
64	LV78TB	1	04-MAR-2010	10:19:56	0062014	A0C030000	H1
65	LV78TC	1	04-MAR-2010	10:21:02	0062014	A0C030000	H1
66	LV7VL	1	04-MAR-2010	10:22:23	0062014	A0C020480	H1
67	LV7VLS	1	04-MAR-2010	10:23:28	0062014	A0C020480	H1
68	LV7VLD	1	04-MAR-2010	10:24:33	0062014	A0C020480	H1
69	LV7VQ	1	04-MAR-2010	10:25:40	0062014	A0C020480	H1
70	LV7V6	1	04-MAR-2010	10:26:46	0062014	A0C020480	H1
71	LV7VT	1	04-MAR-2010	10:40:14	0062014	A0C020480	H1
72	CK2CCV	1	04-MAR-2010	10:41:20			H1
73	CK1CCB	1	04-MAR-2010	10:42:25			H1
74	LV7VX	1	04-MAR-2010	10:43:35	0062014	A0C020480	H1
75	LV7V3	1	04-MAR-2010	10:44:55	0062014	A0C020480	H1
76	LV7VR	1	04-MAR-2010	10:46:02	0062014	A0C020480	H1
77	LV7V5	1	04-MAR-2010	10:47:08	0062014	A0C020480	H1
78	LV7VN	1	04-MAR-2010	10:48:18	0062014	A0C020480	H1
79	LV7V4	1	04-MAR-2010	10:49:24	0062014	A0C020480	H1
80	LV7V0	1	04-MAR-2010	10:50:31	0062014	A0C020480	H1
81	LV7VW	1	04-MAR-2010	10:51:38	0062014	A0C020480	H1
82	LV7VP	1	04-MAR-2010	10:52:58	0062014	A0C020480	H1
83	LV7VV	1	04-MAR-2010	10:54:14	0062014	A0C020480	H1
84	CK2CCV	1	04-MAR-2010	10:55:22			H1
85	CK1CCB	1	04-MAR-2010	10:56:33			H1
86	LV7V8	1	04-MAR-2010	10:57:39	0062014	A0C020480	H1
87	LV7V7	1	04-MAR-2010	10:58:56	0062014	A0C020480	H1
88	LV7V1	1	04-MAR-2010	11:00:05	0062014	A0C020480	H1

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	LV7V2	1	04-MAR-2010	11:01:31	0062014	A0C020480	H1
90	CK2CCV	1	04-MAR-2010	11:02:37			H1
91	CK1CCB	1	04-MAR-2010	11:03:42			H1
92	CK2CCV	1	04-MAR-2010	11:10:29			H1
93	CK2CCV	1	04-MAR-2010	11:11:54			H1
94	CK1CCB	1	04-MAR-2010	11:12:59			H1
95	LV7VT	100	04-MAR-2010	11:14:16	0062014	A0C020480	H1
96	CK2CCV	1	04-MAR-2010	11:16:09			H1
97	CK1CCB	1	04-MAR-2010	11:17:35			H1
98	LV7VT	1	04-MAR-2010	11:18:50	0062014	A0C020480	H1
99	CK2CCV	1	04-MAR-2010	11:20:00			H1
100	CK1CCB	1	04-MAR-2010	11:21:06			H1
101	CK2CCV	1	04-MAR-2010	13:36:57			H1
102	CK1CCB	1	04-MAR-2010	13:38:02			H1
103	LV9VXB	1	04-MAR-2010	13:39:06	0063154	A0C040000	H1
104	LV9VXC	1	04-MAR-2010	13:40:20	0063154	A0C040000	H1
105	LV9TR	1	04-MAR-2010	13:41:40	0063154	A0C040425	H1
106	LV9TRS	1	04-MAR-2010	13:42:48	0063154	A0C040425	H1
107	LV9TRD	1	04-MAR-2010	13:43:56	0063154	A0C040425	H1
108	LV9TH	1	04-MAR-2010	13:45:01	0063154	A0C040421	H1
109	LV9T2	1	04-MAR-2010	13:46:09	0063154	A0C040425	H1
110	LV9TG	1	04-MAR-2010	13:47:19	0063154	A0C040421	H1
111	LV9TE	1	04-MAR-2010	13:48:27	0063154	A0C040421	H1
112	LV9R4	1	04-MAR-2010	13:49:33	0063154	A0C040421	H1
113	CK2CCV	1	04-MAR-2010	13:50:42			H1
114	CK1CCB	1	04-MAR-2010	13:51:50			H1
115	LV9TD	1	04-MAR-2010	13:52:55	0063154	A0C040421	H1
116	CK2CCV	1	04-MAR-2010	13:54:02			H1
117	CK1CCB	1	04-MAR-2010	13:55:09			H1

End of Report

```
:       Instrument Upload                                    Run Log - Page  1 :
:       Started Tue Mar  2 05:31:35 2010 by COUNTSK                            :
:       Data File: UPL$CAN_DATA_ROOT:<REP>I80301A.CSV;1                        :
```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1	1	01-MAR-2010	07:51:01			I8
2	STD2	1	01-MAR-2010	07:55:30			I8
3	STD3	1	01-MAR-2010	08:00:07			I8
4	STD4	1	01-MAR-2010	08:05:05			I8
5	ICV	1	01-MAR-2010	08:09:35			I8
6	ICB	1	01-MAR-2010	08:14:18			I8
7	CRI	1	01-MAR-2010	08:18:49			I8
8	CRIQ	1	01-MAR-2010	08:23:27			I8
9	ICSA	1	01-MAR-2010	08:28:00			I8
10	ICSAB	1	01-MAR-2010	08:32:34			I8
11	CCV	1	01-MAR-2010	08:37:21			I8
12	CCB	1	01-MAR-2010	08:42:22			I8
13	LV4H9B	1	01-MAR-2010	08:46:52	0057017	A0B260000	I8
14	LV4H9C	1	01-MAR-2010	08:51:22	0057017	A0B260000	I8
15	LV3H6	1	01-MAR-2010	08:56:05	0057017	A0B250453	I8
16	LV3JM	1	01-MAR-2010	09:00:37	0057017	A0B250453	I8
17	LV3JV	1	01-MAR-2010	09:05:07	0057017	A0B250453	I8
18	LV3JW	1	01-MAR-2010	09:09:43	0057017	A0B250453	I8
19	LV3J1	1	01-MAR-2010	09:14:14	0057017	A0B250453	I8
20	LV4H5B	1	01-MAR-2010	09:18:54	0057014	A0B260000	I8
21	LV4H5C	1	01-MAR-2010	09:23:26	0057014	A0B260000	I8
22	LV30J	1	01-MAR-2010	09:28:22	0057014	A0B250520	I8
23	CCV	1	01-MAR-2010	09:32:53			I8
24	CCB	1	01-MAR-2010	09:38:10			I8
25	LV3K1	1	01-MAR-2010	09:42:45	0057017	A0B250463	I8
26	LV3K1L	1	01-MAR-2010	09:47:19			I8
27	LV3K1A	1	01-MAR-2010	09:51:55	0057017	A0B250463	I8
28	LV3K1S	10	01-MAR-2010	09:56:24	0057017	A0B250463	I8
29	LV3K1D	10	01-MAR-2010	10:00:54	0057017	A0B250463	I8
30	LV3P4	1	01-MAR-2010	10:05:24	0057014	A0B250481	I8
31	LV3P4L	1	01-MAR-2010	10:09:59			I8
32	LV31D	1	01-MAR-2010	10:14:30	0057014	A0B250520	I8
33	LV31H	1	01-MAR-2010	10:19:01	0057014	A0B250520	I8
34	LV31K	1	01-MAR-2010	10:23:32	0057014	A0B250520	I8
35	CCV	1	01-MAR-2010	10:28:03			I8
36	CCB	1	01-MAR-2010	10:33:18			I8
37	LV4H5B	1	01-MAR-2010	10:37:53	0057014	A0B260000	I8
38	CCV	1	01-MAR-2010	10:42:25			I8
39	CCB	1	01-MAR-2010	10:47:55			I8
40	LV31M	1	01-MAR-2010	10:52:26	0057014	A0B250520	I8
41	LV31T	1	01-MAR-2010	10:57:12	0057014	A0B250520	I8
42	LV31V	1	01-MAR-2010	11:01:45	0057014	A0B250520	I8
43	LV31W	1	01-MAR-2010	11:06:18	0057014	A0B250520	I8
44	LV31WS	1	01-MAR-2010	11:10:51	0057014	A0B250520	I8

(continued)

: Instrument Upload Run Log - Page 1 :
: Started Thu Mar 18 08:34:34 2010 by COUNTSK :
: Data File: UPL$CAN_DATA_ROOT:<REP>I80317A.CSV;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument	
1	STD1	1	17-MAR-2010	08:18:56			I8	
2	STD2	1	17-MAR-2010	08:23:39			I8	
3	STD3	1	17-MAR-2010	08:30:29			I8	
4	STD4	1	17-MAR-2010	08:37:20			I8	
5	ICV	1	17-MAR-2010	08:44:09			I8	
6	ICB	1	17-MAR-2010	08:51:01			I8	
7	CRI	1	17-MAR-2010	08:57:26			I8	
8	CRIQ	1	17-MAR-2010	09:02:21	QSmCRI		I8	
9	ICSA	1	17-MAR-2010	09:07:02			I8	
10	ICSAB	1	17-MAR-2010	09:11:41			I8	
11	CCV	1	17-MAR-2010	09:18:32			I8	
12	CCB	1	17-MAR-2010	09:25:22			I8	
13	LWDXCB	1	17-MAR-2010	09:32:12	0067016	A0C080000	I8	
14	LWDXCC	1	17-MAR-2010	09:36:48	0067016	A0C080000	I8	
15	LWCQL	5	17-MAR-2010	09:43:38	0067016	A0C040528	I8	
16	LWKE2B	1	17-MAR-2010	09:50:27	0071020	A0C120000	I8	
17	LWKE2C	1	17-MAR-2010	09:55:05	0071020	A0C120000	I8	
18	LWHLF	1	17-MAR-2010	10:01:56	0071020	A0C100541	I8	
19	LWHLFL	1	17-MAR-2010	10:06:34			I8	
20	LWHLFA	1	17-MAR-2010	10:10:58	0071020	A0C100541	I8	ZnTLBeCaSeAgNaCr As Sb
21	LWHLFS	10	17-MAR-2010	10:17:49	0071020	A0C100541	I8	
22	LWHLFD	10	17-MAR-2010	10:24:03	0071020	A0C100541	I8	
23	CCV	1	17-MAR-2010	10:30:04			I8	
24	CCB	1	17-MAR-2010	10:36:54			I8	
25	LWHLF	1	17-MAR-2010	10:41:34	0071020	A0C100541	I8	
26	LWKE2B	1	17-MAR-2010	10:46:13	0071020	A0C120000	I8	
27	CCV	1	17-MAR-2010	10:50:38			I8	
28	CCB	1	17-MAR-2010	10:57:28			I8	
29	LWJ1C	1	17-MAR-2010	11:02:02	0071020	A0C110532	I8	
30	LWJ1K	1	17-MAR-2010	11:06:41	0071020	A0C110532	I8	
31	LWJ1L	1	17-MAR-2010	11:11:21	0071020	A0C110532	I8	
32	LWJ1M	1	17-MAR-2010	11:16:00	0071020	A0C110532	I8	
33	LWJ1N	1	17-MAR-2010	11:20:38	0071020	A0C110532	I8	
34	LV63KB	1	17-MAR-2010	11:25:20	0061017	A0C020000	I8	
35	LV63KC	1	17-MAR-2010	12:14:33	0061017	A0C020000	I8	
36	LV3LM	1	17-MAR-2010	12:21:25	0061017	A0B250463	I8	
37	LV3LML	1	17-MAR-2010	12:26:08			I8	
38	LV3LMS	10	17-MAR-2010	12:30:47	0061017	A0B250463	I8	
39	CCV	1	17-MAR-2010	12:36:07			I8	
40	CCB	1	17-MAR-2010	12:42:59			I8	
41	LV3LMD	10	17-MAR-2010	12:47:36	0061017	A0B250463	I8	
42	LV3LMA	1	17-MAR-2010	12:53:38	0061017	A0B250463	I8	mg ZnCdTLSeAgNaSb
43	LV3KM	1	17-MAR-2010	13:00:34	0061017	A0B250463	I8	
44	LV3KN	1	17-MAR-2010	13:05:17	0061017	A0B250463	I8	

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	LV3KP	1	17-MAR-2010	13:09:57	0061017	A0B250463	I8
46	LV3KQ	1	17-MAR-2010	13:14:35	0061017	A0B250463	I8
47	LV3KR	1	17-MAR-2010	13:19:14	0061017	A0B250463	I8
48	LV3KT	1	17-MAR-2010	13:23:50	0061017	A0B250463	I8
49	LV3KW	1	17-MAR-2010	13:28:31	0061017	A0B250463	I8
50	LV3KX	1	17-MAR-2010	13:33:17	0061017	A0B250463	I8
51	CCV	1	17-MAR-2010	13:37:56			I8
52	CCB	1	17-MAR-2010	13:44:48			I8
53	LV3K3	1	17-MAR-2010	13:49:30	0061017	A0B250463	I8
54	LV3K7	1	17-MAR-2010	13:54:24	0061017	A0B250463	I8
55	LV3K8	1	17-MAR-2010	13:59:03	0061017	A0B250463	I8
56	LV3K9	1	17-MAR-2010	14:03:50	0061017	A0B250463	I8
57	LV3LA	1	17-MAR-2010	14:08:31	0061017	A0B250463	I8
58	LV3LC	1	17-MAR-2010	14:13:10	0061017	A0B250463	I8
59	LV3LE	1	17-MAR-2010	14:17:51	0061017	A0B250463	I8
60	LV3LJ	1	17-MAR-2010	14:22:34	0061017	A0B250463	I8
61	LV3LT	1	17-MAR-2010	14:27:15	0061017	A0B250463	I8
62	LV3LW	1	17-MAR-2010	14:31:53	0061017	A0B250463	I8
63	CCV	1	17-MAR-2010	14:36:34			I8
64	CCB	1	17-MAR-2010	14:43:27			I8
65	LV3LX	1	17-MAR-2010	14:48:04	0061017	A0B250463	I8
66	LWMH8B	1	17-MAR-2010	14:52:44	0074028	A0C150000	I8
67	LWMH8C	1	17-MAR-2010	14:57:23	0074028	A0C150000	I8
68	LWLDR	1	17-MAR-2010	15:04:17	0074028	A0C120538	I8
69	LWLD2	1	17-MAR-2010	15:08:59	0074028	A0C120538	I8
70	LWJ2Q	1	17-MAR-2010	15:13:49	0074028	A0C110539	I8
71	LWJ2QL	1	17-MAR-2010	15:18:38			I8
72	LWJ2QA	1	17-MAR-2010	15:23:18	0074028	A0C110539	I8
73	LWJ2QS	10	17-MAR-2010	15:30:10	0074028	A0C110539	I8
74	LWJ2QD	10	17-MAR-2010	15:35:44	0074028	A0C110539	I8
75	CCV	1	17-MAR-2010	15:40:58			I8
76	CCB	1	17-MAR-2010	15:47:50			I8
77	LWF9VB	1	17-MAR-2010	15:52:32	0069013	A0C100000	I8
78	LWF9VC	1	17-MAR-2010	15:57:11	0069013	A0C100000	I8
79	LWE3Q	1	17-MAR-2010	16:04:03	0069013	A0C090412	I8
80	LWE3QS	5	17-MAR-2010	16:08:55	0069013	A0C090412	I8
81	LWE3QD	5	17-MAR-2010	16:15:29	0069013	A0C090412	I8
82	LWE30	1	17-MAR-2010	16:21:35	0069013	A0C090412	I8
83	LWE31	1	17-MAR-2010	16:26:18	0069013	A0C090412	I8
84	LWE33	1	17-MAR-2010	16:31:01	0069013	A0C090412	I8
85	LWE34	1	17-MAR-2010	16:35:41	0069013	A0C090412	I8
86	LWE34L	1	17-MAR-2010	16:40:26			I8
87	CCV	1	17-MAR-2010	16:45:05			I8
88	CCB	1	17-MAR-2010	16:51:57			I8

ZnCdTlCaSeAgNa
CrAsSb

(continued)

: Instrument Upload Run Log - Page 1 :
: Started Thu Mar 18 10:27:36 2010 by COUNTSK :
: Data File: UPL$CAN_DATA_ROOT:<REP>I80318A.CSV;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1	1	18-MAR-2010	08:49:23			I8
2	STD2	1	18-MAR-2010	08:53:58			I8
3	STD3	1	18-MAR-2010	09:00:51			I8
4	STD4	1	18-MAR-2010	09:07:51			I8
5	ICV	1	18-MAR-2010	09:13:06			I8
6	ICB	1	18-MAR-2010	09:19:59			I8
7	CRI	1	18-MAR-2010	09:24:42			I8
8	CRIQ	1	18-MAR-2010	09:34:08	Q5m CRI		I8
9	ICSA	1	18-MAR-2010	09:39:06			I8
10	ICSAB	1	18-MAR-2010	09:43:45			I8
11	CCV	1	18-MAR-2010	09:50:37			I8
12	CCB	1	18-MAR-2010	09:57:26			I8
13	LV3LMA	1	18-MAR-2010	10:02:08	0061017	A0B250463	I8 AL
14	LV3LMD	10	18-MAR-2010	10:08:59	0061017	A0B250463	I8
15	LV3KM	10	18-MAR-2010	10:15:50	0061017	A0B250463	I8
16	LV3KN	10	18-MAR-2010	10:20:28	0061017	A0B250463	I8
17	LV3KP	10	18-MAR-2010	10:25:13	0061017	A0B250463	I8
18	LV3KQ	10	18-MAR-2010	10:29:51	0061017	A0B250463	I8
19	LV3KR	10	18-MAR-2010	10:34:30	0061017	A0B250463	I8
20	LV3KT	10	18-MAR-2010	10:39:10	0061017	A0B250463	I8
21	LV3KW	10	18-MAR-2010	10:43:48	0061017	A0B250463	I8
22	LV3KX	10	18-MAR-2010	10:48:26	0061017	A0B250463	I8
23	CCV	1	18-MAR-2010	10:53:06			I8
24	CCB	1	18-MAR-2010	10:59:57			I8
25	LV3K3	10	18-MAR-2010	11:04:40	0061017	A0B250463	I8
26	LV3K7	10	18-MAR-2010	11:09:19	0061017	A0B250463	I8
27	LV3K8	10	18-MAR-2010	11:13:57	0061017	A0B250463	I8
28	LV3K9	10	18-MAR-2010	11:18:14	0061017	A0B250463	I8
29	LV3LA	10	18-MAR-2010	11:22:38	0061017	A0B250463	I8
30	LV3LC	10	18-MAR-2010	11:27:08	0061017	A0B250463	I8
31	LV3LE	10	18-MAR-2010	11:31:42	0061017	A0B250463	I8
32	LV3LJ	10	18-MAR-2010	11:36:18	0061017	A0B250463	I8
33	LV3LT	10	18-MAR-2010	11:40:53	0061017	A0B250463	I8
34	LV3LW	10	18-MAR-2010	11:45:31	0061017	A0B250463	I8
35	CCV	1	18-MAR-2010	11:50:08			I8
36	CCB	1	18-MAR-2010	11:57:00			I8
37	LV3LX	10	18-MAR-2010	12:01:42	0061017	A0B250463	I8
38	LWE34	5	18-MAR-2010	12:06:20	0069013	A0C090412	I8
39	LWE34L	25	18-MAR-2010	12:10:58			I8
40	LWMH2B	1	18-MAR-2010	12:15:38	0074025	A0C150000	I8
41	LWMH2C	1	18-MAR-2010	12:20:24	0074025	A0C150000	I8
42	LWL9G	1	18-MAR-2010	12:27:17	0074025	A0C130444	I8
43	LWL9M	1	18-MAR-2010	12:32:00	0074025	A0C130444	I8
44	LWLE9F	1	18-MAR-2010	12:36:39	0074025	A0C120545	I8

(continued)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

INSTRUMENT PRINTOUTS

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information

Run Date: 3-3-10 Analyst: RK Instrument: HI

Prep Batches Run: See Run Log

Circle Methods used: 7470A / 245.1 : CORP-MT-0005 Rev 1 (7471: CORP-MT-0007 Rev 1)

Review Items	Yes	No	N/A	2nd Level
A. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other			✓	
1. Are all nonconformances documented appropriately?	✓			✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I Analyst: Roger K. Jost Date/Time: 3-4-10

Level I Analyst: _____ Date/Time: _____

Comments: _____

2nd Level Reviewer: Natalie Musselman Date/Time: 3-4-10

2nd Level Reviewer: _____ Date/Time: _____

Comments: _____

Curve Prepared Date: 3-3-10 Time: 0830

ICV CPI 09K153 $SnCl_2$ OMR129

CAL/CCV HPS09281O6 NACL $NH_2OH{\cdot}HCL$ OMR138

Revised 01/03/2008

```
*** Standard: 1 Rep: 1              Seq:  0      14:08:32 03 Mar 2010 HG

Hg    .0000   ppb      1799

*** Standard: 2 Rep: 1              Seq:  1      14:09:38 03 Mar 2010 HG

Hg    .2000   ppb      8660

*** Standard: 3 Rep: 1              Seq:  2      14:10:45 03 Mar 2010 HG

Hg    .5000   ppb      17996

*** Standard: 4 Rep: 1              Seq:  3      14:11:55 03 Mar 2010 HG

Hg    1.000   ppb      39016
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 5 Rep: 1 Seq: 4 14:13:06 03 Mar 2010 HG

Hg 5.000 ppb 187796

*** Standard: 6 Rep: 1 Seq: 5 14:14:22 03 Mar 2010 HG

Hg 10.00 ppb 368658

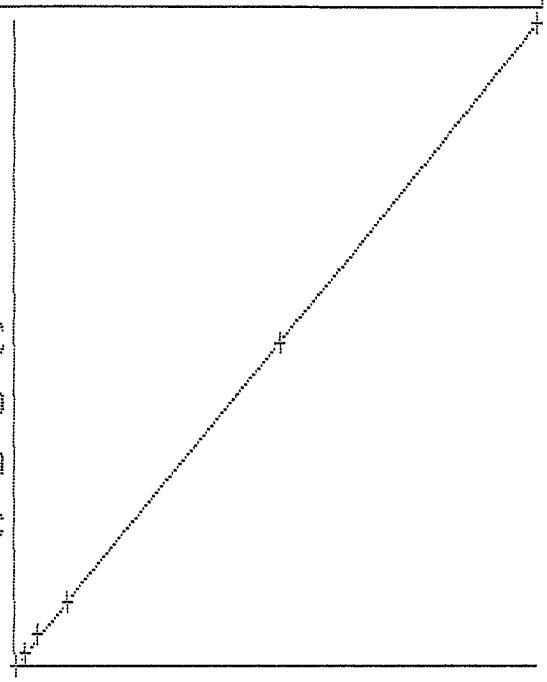
```
RunProt: HGPPB      Hg analysis in the ppb range
RunFold: HG103003A Seq: 6    Batch:
                 Prnt: R/T On                    Pump: On
                 Rev: 4.2                        Xmit: Off Gas:    1.00 LPM
State: Idle      Macro HG        59: F3 Print    User: SMI         A/S: On
```

CALIBRATION: Line proto: HGPPB

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.0000	.0004	.0004	Quadratic
S2	.2000	.1947	-.0053	Wtdlinear
S3	.5000	.4482	-.0518	
S4	1.000	1.019	.0190	Accept
S5	5.000	5.059	.0592	
S6	10.00	9.970	-.0295	

A .00000000 r .999953

B 2.71550e-5 C -4.04480e-2



	Mean		
S1	1799	0 SD	1799
S2	8660	0 %RSD	8660
S3	17996	0 %RSD	17996
S4	39016	0 %RSD	39016
S5	187796	0 %RSD	187796
S6	368658	0 %RSD	368658

New cal coefficients stored

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 5 Ck5ICV Seq: 6 14:15:44 03 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 92.25 2.306 2.500 ppb .0000 %

*** Check Standard: 4 Ck4ICB Seq: 7 14:16:52 03 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg -90570 -.0091 .0000 ppb .0000 %

Re-analyze →
*** Check Standard: 3 Ck3CRA\MRL Seq: 8 14:17:58 03 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg L 18.16 .0363 .2000 ppb .0000 %

*** Check Standard: 3 Ck3CRA\MRL Seq: 9 14:20:07 03 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 125.0 .2501 .2000 ppb .0000 %

*** Check Standard: 2 Ck2CCV Seq: 10 14:24:08 03 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 100.8 5.041 5.000 ppb .0000 %

*** Check Standard: 1 Ck1CCB Seq: 11 14:25:26 03 Mar 2010 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .0358 .2000 ppb .0000 %

*** Sample ID: LV4H9B Seq: 12 14:26:33 03 Mar 2010 HG
0057017
Hg .0068 ppb .0000 % .0068

*** Sample ID: LV4H9C Seq: 13 14:27:39 03 Mar 2010 HG
SOLID
Hg 4.887 ppb .0000 % 4.887

*** Sample ID: LV3K1 Seq: 14 14:28:43 03 Mar 2010 HG
SOLID
Hg .2190 ppb .0000 % .2190

*** Sample ID: LV3K1L Seq: 15 14:29:49 03 Mar 2010 HG
SOLID
Hg .0240 ppb .0000 % .0240

*** Sample ID: LV3K1S Seq: 16 14:31:04 03 Mar 2010 HG
SOLID
Hg 1.244 ppb .0000 % 1.244

*** Sample ID: LV3K1D Seq: 17 14:32:11 03 Mar 2010 HG
SOLID
Hg 1.148 ppb .0000 % 1.148

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV3J1 Seq: 18 14:33:16 03 Mar 2010 HG

SOLID

Hg .0724 ppb .0000 % .0724

*** Sample ID: LV3JV Seq: 19 14:34:35 03 Mar 2010 HG

SOLID

Hg .0375 ppb .0000 % .0375

*** Sample ID: LV3JM Seq: 20 14:35:43 03 Mar 2010 HG

SOLID

Hg .0457 ppb .0000 % .0457

*** Sample ID: LV3H6 Seq: 21 14:36:48 03 Mar 2010 HG

SOLID

Hg .0520 ppb .0000 % .0520

*** Check Standard: 2 Ck2CCV Seq: 22 14:38:17 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.8	5.042	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 23 14:39:26 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0414	.2000	ppb	.0000 %

*** Sample ID: LV3JW Seq: 24 14:40:34 03 Mar 2010 HG

SOLID

Hg .0781 ppb .0000 % .0781

*** Sample ID: LV593B Seq: 25 14:41:54 03 Mar 2010 HG

0060022

Hg -.0441 ppb .0000 % -.0441

*** Sample ID: LV593C Seq: 26 14:43:13 03 Mar 2010 HG

SOLID

Hg 4.638 ppb .0000 % 4.638

*** Sample ID: LV505 Seq: 27 14:44:21 03 Mar 2010 HG

SOLID

Hg .1112 ppb .0000 % .1112

*** Sample ID: LV505S Seq: 28 14:45:26 03 Mar 2010 HG

SOLID

Hg 1.059 ppb .0000 % 1.059

*** Sample ID: LV505D Seq: 29 14:46:34 03 Mar 2010 HG

SOLID

Hg 1.148 ppb .0000 % 1.148

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV51H Seq: 30 14:47:39 03 Mar 2010 HG

SOLID

Hg .1284 ppb .0000 % .1284

*** Sample ID: LV51K Seq: 31 14:48:45 03 Mar 2010 HG

SOLID

Hg .0911 ppb .0000 % .0911

*** Sample ID: LV51C Seq: 32 14:49:51 03 Mar 2010 HG

SOLID

Hg 1.745 ppb .0000 % 1.745

*** Sample ID: LV51A Seq: 33 14:50:57 03 Mar 2010 HG

SOLID

Hg .1134 ppb .0000 % .1134

*** Check Standard: 2 Ck2CCV Seq: 34 14:52:02 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.6	5.082	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 35 14:53:18 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0107	.2000	ppb	.0000 %

*** Sample ID: LV51F Seq: 36 14:54:25 03 Mar 2010 HG

SOLID

Hg .0418 ppb .0000 % .0418

*** Sample ID: LV509 Seq: 37 14:55:35 03 Mar 2010 HG

SOLID

Hg .4885 ppb .0000 % .4885

*** Sample ID: LV4JCB Seq: 38 14:56:44 03 Mar 2010 HG

0057019

Hg .0155 ppb .0000 % .0155

*** Sample ID: LV4JCC Seq: 39 14:57:49 03 Mar 2010 HG

SOLID

Hg 4.939 ppb .0000 % 4.939

*** Sample ID: LV3CK Seq: 40 14:58:53 03 Mar 2010 HG

SOLID

Hg .0184 ppb .0000 % .0184

*** Sample ID: LV3CKS Seq: 41 15:00:00 03 Mar 2010 HG

SOLID

Hg .9861 ppb .0000 % .9861

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV3CKD Seq: 42 15:01:08 03 Mar 2010 HG

SOLID

Hg	1.020	ppb	.0000 %	1.020				

*** Sample ID: LV3DC Seq: 43 15:02:16 03 Mar 2010 HG

SOLID

Hg	.1074	ppb	.0000 %	.1074				

*** Sample ID: LV3DE Seq: 44 15:03:21 03 Mar 2010 HG

SOLID

Hg	1.219	ppb	.0000 %	1.219				

*** Sample ID: LV3DA Seq: 45 15:04:31 03 Mar 2010 HG

SOLID

Hg	.1465	ppb	.0000 %	.1465				

*** Check Standard: 2 Ck2CCV Seq: 46 15:05:36 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.92	4.996	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 47 15:06:41 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0072	.2000	ppb	.0000 %

*** Sample ID: LV3DH Seq: 48 15:07:46 03 Mar 2010 HG

SOLID

Hg	.3217	ppb	.0000 %	.3217				

*** Sample ID: LV591B Seq: 49 15:09:12 03 Mar 2010 HG

0060020

Hg	-.0294	ppb	.0000 %	-.0294				

*** Sample ID: LV591C Seq: 50 15:10:21 03 Mar 2010 HG

SOLID

Hg	4.824	ppb	.0000 %	4.824				

*** Sample ID: LV41M Seq: 51 15:11:28 03 Mar 2010 HG

SOLID

Hg	.1239	ppb	.0000 %	.1239				

*** Sample ID: LV41ML Seq: 52 15:12:36 03 Mar 2010 HG

SOLID

Hg	-.0240	ppb	.0000 %	-.0240				

*** Sample ID: LV41MS Seq: 53 15:14:12 03 Mar 2010 HG

SOLID

Hg	1.069	ppb	.0000 %	1.069				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV41MD Seq: 54 15:15:31 03 Mar 2010 HG

SOLID

Hg	1.042	ppb	.0000 %	1.042				

*** Sample ID: LV42P Seq: 55 15:16:39 03 Mar 2010 HG

SOLID

Hg	.0335	ppb	.0000 %	.0335				

*** Sample ID: LV421 Seq: 56 15:17:45 03 Mar 2010 HG

SOLID

Hg	.1877	ppb	.0000 %	.1877				

*** Sample ID: LV414 Seq: 57 15:18:51 03 Mar 2010 HG

SOLID

Hg	.0989	ppb	.0000 %	.0989				

*** Check Standard: 2 Ck2CCV Seq: 58 15:20:06 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.9	5.095	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 59 15:21:11 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0122	.2000	ppb	.0000 %

*** Sample ID: LV41R Seq: 60 15:22:26 03 Mar 2010 HG

SOLID

Hg	.0571	ppb	.0000 %	.0571				

*** Sample ID: LV412 Seq: 61 15:23:33 03 Mar 2010 HG

SOLID

Hg	.0686	ppb	.0000 %	.0686				

*** Sample ID: LV4X4 Seq: 62 15:24:50 03 Mar 2010 HG

SOLID

Hg	.0103	ppb	.0000 %	.0103				

*** Sample ID: LV43E Seq: 63 15:25:57 03 Mar 2010 HG

SOLID

Hg	.0617	ppb	.0000 %	.0617				

*** Sample ID: LV42V Seq: 64 15:27:03 03 Mar 2010 HG

SOLID

Hg	.0196	ppb	.0000 %	.0196				

*** Sample ID: LV42W Seq: 65 15:28:34 03 Mar 2010 HG

SOLID

Hg	.0133	ppb	.0000 %	.0133				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV41V Seq: 66 15:29:43 03 Mar 2010 HG
SOLID
Hg .0625 ppb .0000 % .0625

*** Sample ID: LV63FB Seq: 67 15:31:19 03 Mar 2010 HG
0061015
Hg -.0131 ppb .0000 % -.0131

*** Sample ID: LV63FC Seq: 68 15:32:34 03 Mar 2010 HG
SOLID
Hg 4.810 ppb .0000 % 4.810

*** Sample ID: LV6T7 Seq: 69 15:33:55 03 Mar 2010 HG
SOLID
Hg -.0045 ppb .0000 % -.0045

*** Check Standard: 2 Ck2CCV Seq: 70 15:35:00 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.5	5.027	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 71 15:36:05 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0346	.2000	ppb	.0000 %

*** Sample ID: LV6T7S Seq: 72 15:37:42 03 Mar 2010 HG
SOLID
Hg .9541 ppb .0000 % .9541

*** Sample ID: LV6T7D Seq: 73 15:38:58 03 Mar 2010 HG
SOLID
Hg .9169 ppb .0000 % .9169

*** Sample ID: LV6VK Seq: 74 15:40:06 03 Mar 2010 HG
SOLID
Hg .1215 ppb .0000 % .1215

*** Sample ID: LV6WF Seq: 75 15:41:13 03 Mar 2010 HG
SOLID
Hg .0552 ppb .0000 % .0552

*** Sample ID: LV6VL Seq: 76 15:42:22 03 Mar 2010 HG
SOLID
Hg .0601 ppb .0000 % .0601

*** Sample ID: LV6VG Seq: 77 15:43:39 03 Mar 2010 HG
SOLID
Hg -.0084 ppb .0000 % -.0084

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV595B Seq: 78 15:44:47 03 Mar 2010 HG
0060023
Hg .0202 ppb .0000 % .0202

*** Sample ID: LV595C Seq: 79 15:46:07 03 Mar 2010 HG
SOLID
Hg 4.822 ppb .0000 % 4.822

*** Sample ID: LV4V5 Seq: 80 15:47:15 03 Mar 2010 HG
SOLID
Hg -.0817 ppb .0000 % -.0817

*** Sample ID: LV4V5S Seq: 81 15:48:26 03 Mar 2010 HG
SOLID
Hg .7680 ppb .0000 % .7680

*** Check Standard: 2 Ck2CCV Seq: 82 15:49:35 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.5	5.027	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 83 15:50:41 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0088	.2000	ppb	.0000 %

*** Sample ID: LV4V5D Seq: 84 15:51:56 03 Mar 2010 HG
SOLID
Hg .8360 ppb .0000 % .8360

Cancelled.
*** Sample ID: LV4V6 Seq: 85 15:53:05 03 Mar 2010 HG
SOLID
→ Hg -.0173 ppb .0000 % -.0173

*** Sample ID: LV63HB Seq: 86 15:54:13 03 Mar 2010 HG
0061016
Hg .0050 ppb .0000 % .0050

*** Sample ID: LV63HC Seq: 87 15:55:20 03 Mar 2010 HG
SOLID
Hg 4.968 ppb .0000 % 4.968

*** Sample ID: LV6JK Seq: 88 15:56:27 03 Mar 2010 HG
SOLID
Hg -.0583 ppb .0000 % -.0583

*** Sample ID: LV6JKS Seq: 89 15:57:33 03 Mar 2010 HG
SOLID
Hg .9304 ppb .0000 % .9304

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV6JKD Seq: 90 15:59:01 03 Mar 2010 HG

SOLID

Hg 1.010 ppb .0000 % 1.010

*** Sample ID: LV6JM Seq: 91 16:00:09 03 Mar 2010 HG

SOLID

Hg -.0050 ppb .0000 % -.0050

*** Sample ID: LV6JJ Seq: 92 16:01:15 03 Mar 2010 HG

SOLID

Hg .0112 ppb .0000 % .0112

*** Sample ID: LV6HT Seq: 93 16:02:23 03 Mar 2010 HG

SOLID

Hg .0809 ppb .0000 % .0809

*** Check Standard: 2 Ck2CCV Seq: 94 16:03:39 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.7	5.034	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 95 16:04:45 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0553	.2000	ppb	.0000 %

*** Sample ID: LV6HN Seq: 96 16:06:21 03 Mar 2010 HG

SOLID

Hg -.0257 ppb .0000 % -.0257

*** Sample ID: LV6JE Seq: 97 16:07:27 03 Mar 2010 HG

SOLID

Hg -.0456 ppb .0000 % -.0456

*** Sample ID: LV6JA Seq: 98 16:08:43 03 Mar 2010 HG

SOLID

Hg -.0016 ppb .0000 % -.0016

*** Sample ID: LV6HR Seq: 99 16:09:51 03 Mar 2010 HG

SOLID

Hg -.0322 ppb .0000 % -.0322

*** Sample ID: LV6JQ Seq: 100 16:10:59 03 Mar 2010 HG

SOLID

Hg -.0366 ppb .0000 % -.0366

*** Sample ID: LV6H8 Seq: 101 16:12:06 03 Mar 2010 HG

SOLID

Hg .0113 ppb .0000 % .0113

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV6HL Seq: 102 16:13:18 03 Mar 2010 HG

SOLID

Hg	-.0131	ppb	.0000 %	-.0131	

*** Sample ID: LV6HP Seq: 103 16:14:28 03 Mar 2010 HG

SOLID

Hg	-.0041	ppb	.0000 %	-.0041	

*** Sample ID: LV6HV Seq: 104 16:15:44 03 Mar 2010 HG

SOLID

Hg	-.0183	ppb	.0000 %	-.0183	

*** Sample ID: LV6JH Seq: 105 16:16:50 03 Mar 2010 HG

SOLID

Hg	-.0116	ppb	.0000 %	-.0116	

*** Check Standard: 2 Ck2CCV Seq: 106 16:17:57 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.2	5.061	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 107 16:19:16 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0177	.2000	ppb	.0000 %

*** Sample ID: LV6HX Seq: 108 16:20:28 03 Mar 2010 HG

SOLID

Hg	.0154	ppb	.0000 %	.0154	

*** Sample ID: LV6HJ Seq: 109 16:21:35 03 Mar 2010 HG

SOLID

Hg	.0121	ppb	.0000 %	.0121	

*** Sample ID: LV6JR Seq: 110 16:22:46 03 Mar 2010 HG

SOLID

Hg	-.0282	ppb	.0000 %	-.0282	

*** Sample ID: LV6JD Seq: 111 16:23:57 03 Mar 2010 HG

SOLID

Hg	-.0192	ppb	.0000 %	-.0192	

*** Check Standard: 2 Ck2CCV Seq: 112 16:25:03 03 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.59	4.979	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 113 16:26:08 03 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0364	.2000	ppb	.0000 %

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information

Run Date: 3-4-10 Analyst: RKT Instrument: H1

Prep Batches Run: See Run Log

Circle Methods used: 7470A / 245.1 : CORP-MT-0005 Rev 1 (7471: CORP-MT-0007 Rev 1)

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?			✓	
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				✓ MM 3-5-10
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I Analyst: Roger K. Toth Date/Time: 3-5-10

Level I Analyst: _____ Date/Time: _____

Comments: _____

2nd Level Reviewer: Natalie J Musselman Date/Time: 3-5-10

2nd Level Reviewer: _____ Date/Time: _____

Comments: _____

Curve Prepared Date: 3-3-10 Time: 0830

ICV CPI09K153 $SnCL_2$ OMR129

CAL/CCV HP5092806 NACL $NH_2OH{\cdot}HCL$ OMR138

Revised 01/03/2008

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 0	07:41:08 04 Mar 2010 HG			
Hg	.0000	ppb	87					
*** Standard: 2 Rep: 1				Seq: 1	07:42:23 04 Mar 2010 HG			
Hg	.2000	ppb	6517					
*** Standard: 3 Rep: 1				Seq: 2	07:43:28 04 Mar 2010 HG			
Hg	.5000	ppb	18190					
*** Standard: 4 Rep: 1				Seq: 3	07:44:34 04 Mar 2010 HG			
Hg	1.000	ppb	35519					
*** Standard: 5 Rep: 1				Seq: 4	07:45:39 04 Mar 2010 HG			
Hg	5.000	ppb	175387					
*** Standard: 6 Rep: 1				Seq: 5	07:46:49 04 Mar 2010 HG			
Hg	10.00	ppb	354650					

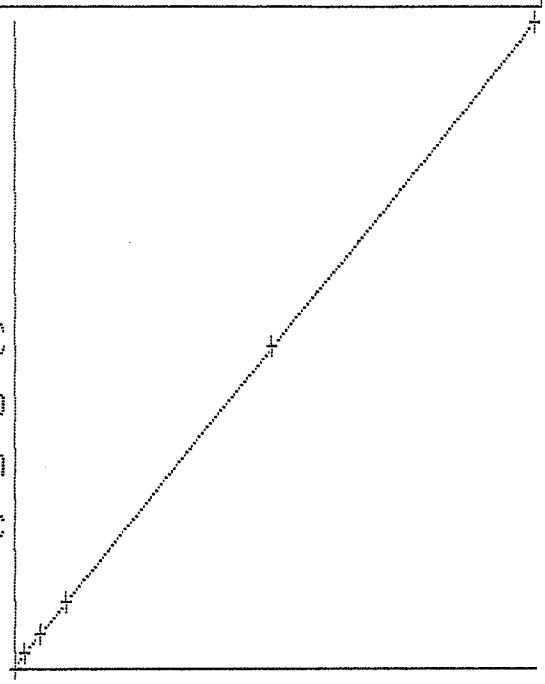
```
RunProt: HGPPB      Hg analysis in the ppb range
RunFold: HG103044A Seq: 6    Batch:
                 Prnt: B/T On                    Pump: On
                 Rev: 4.2                        Xmit: Off Gas:    1.00 LPM
State: Idle      Macro HG        59: F3 Print    User: SMI         A/S: On
```

CALIBRATION: Line proto: HGPPB

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.0000	.0074	.0074	Quadratic
S2	.2000	.1890	-.0110	Wtdlinear
S3	.5000	.5186	.0186	
S4	1.000	1.008	.0080	Accept
S5	5.000	4.958	-.0425	
S6	10.00	10.02	.0195	

A .00000000 r .999983

B 2.02376e-5 C 4.98429e-3



	Mean		
S1	87	0 SD	87
S2	6517	0 %RSD	6517
S3	18190	0 %RSD	18190
S4	35519	0 %RSD	35519
S5	175387	0 %RSD	175387
S6	354650	0 %RSD	354650

New cal coefficients stored

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 5 Ck5ICV Seq: 6 07:48:06 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.21	2.330	2.500	ppb	.0000 %

*** Check Standard: 4 Ck4ICB Seq: 7 07:49:12 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		89660	.0090	.0000	ppb	.0000 %

*** Check Standard: 3 Ck3CRA\MRL Seq: 8 07:50:31 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		124.0	.2480	.2000	ppb	.0000 %

*** Check Standard: 2 Ck2CCV Seq: 9 07:51:36 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.4	5.122	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 10 07:52:47 04 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0142	.2000	ppb	.0000 %

*** Check Standard: 2 Ck2CCV Seq: 11 09:20:03 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.5	5.075	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 12 09:21:09 04 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0019	.2000	ppb	.0000 %

*** Sample ID: LV63KB Seq: 13 09:22:24 04 Mar 2010 HG

0061017

Hg	.0403	ppb	.0000 %	.0403	

*** Sample ID: LV63KC Seq: 14 09:23:30 04 Mar 2010 HG

SOLID

Hg	4.744	ppb	.0000 %	4.744	

*** Sample ID: LV3LM Seq: 15 09:24:35 04 Mar 2010 HG

SOLID

Hg	.2648	ppb	.0000 %	.2648	

*** Sample ID: LV3LML Seq: 16 09:25:49 04 Mar 2010 HG

SOLID

Hg	-.0064	ppb	.0000 %	-.0064	

*** Sample ID: LV3LMS Seq: 17 09:26:56 04 Mar 2010 HG

SOLID

Hg	1.214	ppb	.0000 %	1.214	

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV3LMD Seq: 18 09:28:05 04 Mar 2010 HG

SOLID

Hg	1.230	ppb	.0000 %	1.230				

*** Sample ID: LV3K7 Seq: 19 09:29:20 04 Mar 2010 HG

SOLID

Hg	.3266	ppb	.0000 %	.3266				

*** Sample ID: LV3K8 Seq: 20 09:30:25 04 Mar 2010 HG

SOLID

Hg	.1892	ppb	.0000 %	.1892				

*** Sample ID: LV3KN Seq: 21 09:31:34 04 Mar 2010 HG

SOLID

Hg	.0917	ppb	.0000 %	.0917				

*** Sample ID: LV3LA Seq: 22 09:32:40 04 Mar 2010 HG

SOLID

Hg	.3449	ppb	.0000 %	.3449				

*** Check Standard: 2 Ck2CCV Seq: 23 09:33:48 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.6	5.078	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 24 09:34:56 04 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0255	.2000	ppb	.0000 %

*** Sample ID: LV3LC Seq: 25 09:36:02 04 Mar 2010 HG

SOLID

Hg	.2557	ppb	.0000 %	.2557				

*** Sample ID: LV3LJ Seq: 26 09:37:07 04 Mar 2010 HG

SOLID

Hg	.2825	ppb	.0000 %	.2825				

*** Sample ID: LV3K3 Seq: 27 09:38:12 04 Mar 2010 HG

SOLID

Hg	.0517	ppb	.0000 %	.0517				

*** Sample ID: LV3LE Seq: 28 09:39:17 04 Mar 2010 HG

SOLID

Hg	.2919	ppb	.0000 %	.2919				

*** Sample ID: LV3KM Seq: 29 09:40:28 04 Mar 2010 HG

SOLID

Hg	.3273	ppb	.0000 %	.3273				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV3KW Seq: 30 09:41:34 04 Mar 2010 HG

SOLID

Hg .1643 ppb .0000 % .1643

*** Sample ID: LV3KR Seq: 31 09:42:59 04 Mar 2010 HG

SOLID

Hg .0488 ppb .0000 % .0488

*** Sample ID: LV3KX Seq: 32 09:44:09 04 Mar 2010 HG

SOLID

Hg .0494 ppb .0000 % .0494

*** Sample ID: LV3K9 Seq: 33 09:45:17 04 Mar 2010 HG

SOLID

Hg .4249 ppb .0000 % .4249

*** Sample ID: LV3KQ Seq: 34 09:46:24 04 Mar 2010 HG

SOLID

Hg .0008 ppb .0000 % .0008

*** Check Standard: 2 Ck2CCV Seq: 35 09:47:40 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.2	5.160	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 36 09:48:57 04 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0656	.2000	ppb	.0000 %

*** Sample ID: LV3KT Seq: 37 09:50:12 04 Mar 2010 HG

SOLID

Hg .2316 ppb .0000 % .2316

*** Sample ID: LV3KP Seq: 38 09:51:18 04 Mar 2010 HG

SOLID

Hg .0721 ppb .0000 % .0721

*** Sample ID: LV78WB Seq: 39 09:52:28 04 Mar 2010 HG

0062015

Hg .1068 ppb .0000 % .1068

*** Sample ID: LV78WC Seq: 40 09:53:37 04 Mar 2010 HG

SOLID

Hg 4.789 ppb .0000 % 4.789

*** Sample ID: LV7LD Seq: 41 09:54:42 04 Mar 2010 HG

SOLID

Hg .1928 ppb .0000 % .1928

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV7LDL Seq: 42 09:55:50 04 Mar 2010 HG

SOLID

Hg .0273 ppb .0000 % .0273

*** Sample ID: LV7LDS Seq: 43 09:56:55 04 Mar 2010 HG

SOLID

Hg 1.071 ppb .0000 % 1.071

*** Sample ID: LV7LDD Seq: 44 09:58:03 04 Mar 2010 HG

SOLID

Hg 1.069 ppb .0000 % 1.069

*** Sample ID: LV7LA Seq: 45 09:59:12 04 Mar 2010 HG

SOLID

Hg .1932 ppb .0000 % .1932

*** Sample ID: LV7LX Seq: 46 10:00:33 04 Mar 2010 HG

SOLID

Hg .1202 ppb .0000 % .1202

*** Check Standard: 2 Ck2CCV Seq: 47 10:01:38 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.3	5.115	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 48 10:02:55 04 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.1329	.2000	ppb	.0000 %

*** Sample ID: LV7LC Seq: 49 10:04:10 04 Mar 2010 HG

SOLID

Hg .1434 ppb .0000 % .1434

*** Sample ID: LV7JG Seq: 50 10:05:17 04 Mar 2010 HG

SOLID

Hg .0798 ppb .0000 % .0798

*** Sample ID: LV7K8 Seq: 51 10:06:23 04 Mar 2010 HG

SOLID

Hg .0948 ppb .0000 % .0948

*** Sample ID: LV7LF Seq: 52 10:07:31 04 Mar 2010 HG

SOLID

Hg .1025 ppb .0000 % .1025

*** Sample ID: LV7LH Seq: 53 10:08:37 04 Mar 2010 HG

SOLID

Hg .1314 ppb .0000 % .1314

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV7L0 Seq: 54 10:09:44 04 Mar 2010 HG

SOLID

Hg .0876 ppb .0000 % .0876

*** Sample ID: LV7LM Seq: 55 10:10:52 04 Mar 2010 HG

SOLID

Hg .0890 ppb .0000 % .0890

*** Sample ID: LV7LJ Seq: 56 10:11:57 04 Mar 2010 HG

SOLID

Hg -.0312 ppb .0000 % -.0312

*** Sample ID: LV7HR Seq: 57 10:13:02 04 Mar 2010 HG

SOLID

Hg .1328 ppb .0000 % .1328

*** Sample ID: LV7L1 Seq: 58 10:14:17 04 Mar 2010 HG

SOLID

Hg .1879 ppb .0000 % .1879

*** Check Standard: 2 Ck2CCV Seq: 59 10:15:26 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.47	4.974	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 60 10:16:32 04 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0342	.2000	ppb	.0000 %

*** Sample ID: LV7JH Seq: 61 10:17:38 04 Mar 2010 HG

SOLID

Hg .0605 ppb .0000 % .0605

*** Sample ID: LV7LP Seq: 62 10:18:44 04 Mar 2010 HG

SOLID

Hg .1784 ppb .0000 % .1784

*** Sample ID: LV78TB Seq: 63 10:19:56 04 Mar 2010 HG

0062014

Hg -.0181 ppb .0000 % -.0181

*** Sample ID: LV78TC Seq: 64 10:21:02 04 Mar 2010 HG

SOLID

Hg 4.534 ppb .0000 % 4.534

*** Sample ID: LV7VL Seq: 65 10:22:23 04 Mar 2010 HG

SOLID

Hg .1452 ppb .0000 % .1452

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV7VLS Seq: 66 10:23:28 04 Mar 2010 HG

SOLID

Hg	1.050	ppb	.0000 %	1.050				

*** Sample ID: LV7VLD Seq: 67 10:24:33 04 Mar 2010 HG

SOLID

Hg	1.041	ppb	.0000 %	1.041				

*** Sample ID: LV7VQ Seq: 68 10:25:40 04 Mar 2010 HG

SOLID

Hg	.1242	ppb	.0000 %	.1242				

*** Sample ID: LV7V6 Seq: 69 10:26:46 04 Mar 2010 HG

SOLID

Hg	.2185	ppb	.0000 %	.2185				

RG 3-5-10 - Dilute Re-analyze

*** Sample ID: LV7VT Seq: 70 10:40:14 04 Mar 2010 HG

SOLID

Hg	^^^^^^0	ppb	100.0 %	^^^^^^				

*** Check Standard: 2 Ck2CCV Seq: 71 10:41:20 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.0	5.152	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 72 10:42:25 04 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0238	.2000	ppb	.0000 %

*** Sample ID: LV7VX Seq: 73 10:43:35 04 Mar 2010 HG

SOLID

Hg	.1616	ppb	.0000 %	.1616				

*** Sample ID: LV7V3 Seq: 74 10:44:55 04 Mar 2010 HG

SOLID

Hg	.1577	ppb	.0000 %	.1577				

*** Sample ID: LV7VR Seq: 75 10:46:02 04 Mar 2010 HG

SOLID

Hg	.1153	ppb	.0000 %	.1153				

*** Sample ID: LV7V5 Seq: 76 10:47:08 04 Mar 2010 HG

SOLID

Hg	.1123	ppb	.0000 %	.1123				

*** Sample ID: LV7VN Seq: 77 10:48:18 04 Mar 2010 HG

SOLID

Hg	.1953	ppb	.0000 %	.1953				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV7V4 Seq: 78 10:49:24 04 Mar 2010 HG
SOLID
Hg .1682 ppb .0000 % .1682

*** Sample ID: LV7V0 Seq: 79 10:50:31 04 Mar 2010 HG
SOLID
Hg .1747 ppb .0000 % .1747

*** Sample ID: LV7VW Seq: 80 10:51:38 04 Mar 2010 HG
SOLID
Hg .0997 ppb .0000 % .0997

*** Sample ID: LV7VP Seq: 81 10:52:58 04 Mar 2010 HG
SOLID
Hg .1721 ppb .0000 % .1721

*** Sample ID: LV7VV Seq: 82 10:54:14 04 Mar 2010 HG
SOLID
Hg .1555 ppb .0000 % .1555

*** Check Standard: 2 Ck2CCV Seq: 83 10:55:22 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.8	5.141	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 84 10:56:33 04 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0763	.2000	ppb	.0000 %

*** Sample ID: LV7V8 Seq: 85 10:57:39 04 Mar 2010 HG
SOLID
Hg .2551 ppb .0000 % .2551

*** Sample ID: LV7V7 Seq: 86 10:58:56 04 Mar 2010 HG
SOLID
Hg .2028 ppb .0000 % .2028

*** Sample ID: LV7V1 Seq: 87 11:00:05 04 Mar 2010 HG
SOLID
Hg .1763 ppb .0000 % .1763

*** Sample ID: LV7V2 Seq: 88 11:01:31 04 Mar 2010 HG
SOLID
Hg .1000 ppb .0000 % .1000

*** Check Standard: 2 Ck2CCV Seq: 89 11:02:37 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.3	5.066	5.000	ppb	.0000 %

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 1 Ck1CCB Seq: 90 11:03:42 04 Mar 2010 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .0089 .2000 ppb .0000 %

*** Check Standard: 2 Ck2CCV Seq: 91 11:10:29 04 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg L .4916 .0246 5.000 ppb .0000 %

pump off →

*** Check Standard: 2 Ck2CCV Seq: 92 11:11:54 04 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 108.9 5.445 5.000 ppb .0000 %

*** Check Standard: 1 Ck1CCB Seq: 93 11:12:59 04 Mar 2010 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .0003 .2000 ppb .0000 %

Re-analyze

*** Sample ID: LV7VT/100 Seq: 94 11:14:16 04 Mar 2010 HG
SOLID
Hg -.0798 ppb .0000 % -.0798

*** Check Standard: 2 Ck2CCV Seq: 95 11:16:09 04 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 104.9 5.246 5.000 ppb .0000 %

*** Check Standard: 1 Ck1CCB Seq: 96 11:17:35 04 Mar 2010 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .0632 .2000 ppb .0000 %

*** Sample ID: LV7VT Seq: 97 11:18:50 04 Mar 2010 HG
SOLID
Hg .1438 ppb .0000 % .1438

*** Check Standard: 2 Ck2CCV Seq: 98 11:20:00 04 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 103.6 5.179 5.000 ppb .0000 %

*** Check Standard: 1 Ck1CCB Seq: 99 11:21:06 04 Mar 2010 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .0068 .2000 ppb .0000 %

*** Check Standard: 2 Ck2CCV Seq: 100 13:36:57 04 Mar 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 103.0 5.149 5.000 ppb .0000 %

*** Check Standard: 1 Ck1CCB Seq: 101 13:38:02 04 Mar 2010 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .0374 .2000 ppb .0000 %

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV9VXB Seq: 102 13:39:06 04 Mar 2010 HG
0063154
Hg -.0114 ppb .0000 % -.0114

*** Sample ID: LV9VXC Seq: 103 13:40:20 04 Mar 2010 HG
SOLID
Hg 5.208 ppb .0000 % 5.208

*** Sample ID: LV9TR Seq: 104 13:41:40 04 Mar 2010 HG
SOLID
Hg .0951 ppb .0000 % .0951

*** Sample ID: LV9TRS Seq: 105 13:42:48 04 Mar 2010 HG
SOLID
Hg 1.067 ppb .0000 % 1.067

*** Sample ID: LV9TRD Seq: 106 13:43:56 04 Mar 2010 HG
SOLID
Hg 1.021 ppb .0000 % 1.021

*** Sample ID: LV9TH Seq: 107 13:45:01 04 Mar 2010 HG
SOLID
Hg .1096 ppb .0000 % .1096

*** Sample ID: LV9T2 Seq: 108 13:46:09 04 Mar 2010 HG
SOLID
Hg .1955 ppb .0000 % .1955

*** Sample ID: LV9TG Seq: 109 13:47:19 04 Mar 2010 HG
SOLID
Hg .1074 ppb .0000 % .1074

*** Sample ID: LV9TE Seq: 110 13:48:27 04 Mar 2010 HG
SOLID
Hg .0722 ppb .0000 % .0722

*** Sample ID: LV9R4 Seq: 111 13:49:33 04 Mar 2010 HG
SOLID
Hg .1173 ppb .0000 % .1173

*** Check Standard: 2 Ck2CCV Seq: 112 13:50:42 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.9	5.093	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 113 13:51:50 04 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0331	.2000	ppb	.0000 %

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: LV9TD Seq: 114 13:52:55 04 Mar 2010 HG

			SOLID	
Hg	.0717	ppb	.0000 %	.0717

*** Check Standard: 2 Ck2CCV Seq: 115 13:54:02 04 Mar 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.2	5.161	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 116 13:55:09 04 Mar 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0376	.2000	ppb	.0000 %

STD2/CCV STD OB97 ICSA STD OB51 CRI STD OA30
STD3 STD OB59 ICSAB STD OA31
STD4 STD OB60 ICV STD 91649 DIL BLK DMR121
QSMCRI OA40

Test America North Canton ICP/MS Data Review Checklist

Run/Project Information:

Run Date: 3-1-10 Analyst: KLL Instrument: I8
Prep Batches Run: See Run Log

Circle Methods used: 6020/ 200.8: CORP-MT-0001NC

Review Items

A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
2. Performance check within recommended specfications?. (Be>8000cps) (In >300,000 cps) (Pb >100,000 cps) (Co>100000cps) (Mg>10000cps) (CeO/Ce ≤ 0.03) (Ba++/Ba+ ≤ 0.03)(Background < 30cps @ Mass 220) CCT Performance Check (In>75000cps) (Se<20 cps)	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? Correlation coefficient ≥ .995 ?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? *(ICV: = 90 – 110%) (CCV: 90 – 110%,* 200.8 = 85 -115% *)*	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%)?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed ?	✓			✓
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time ?	✓			✓
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits ?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits ?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits ?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
E. Other				
1. Are all nonconformances documented appropriately ?	✓			✓
2. Current IDL/LR data on file ?	✓			✓
3. Calculations checked for error ?	✓			✓
4. Transcriptions checked for error ?	✓			✓
5. All client/project specific requirements met ?	✓			✓
6. Date/time of analysis verified as correct ?	✓			

Level I Analyst: Karen K Counts Date: 3-2-10 Time: 7:51-14:14
Level I Analyst: Date: Time:

Level II Reviewer: Date: 3.2.10 Time: 7:51-14:14
Level II Reviewer: Date: Time:

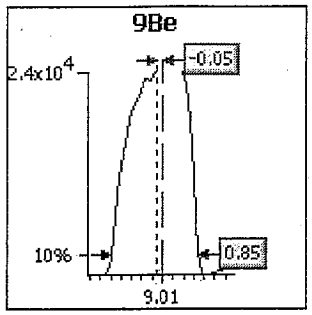
Comments:

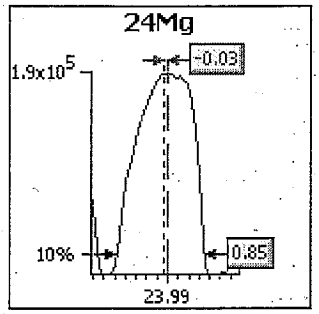
Performance Report

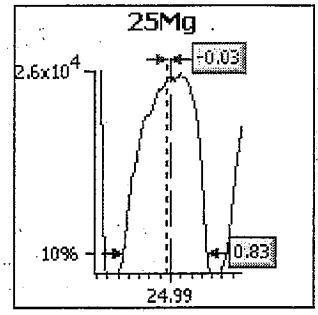
Sample details
Acquired at : 3/1/2010 07:41:09
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

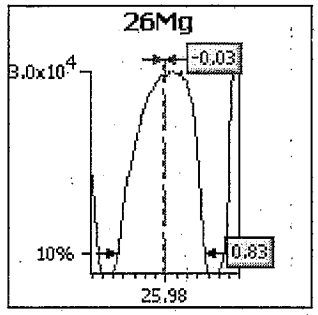
Mass Calibration verification

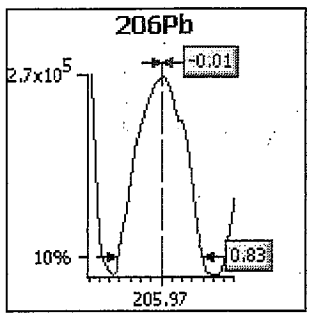
Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 10% of the peak maximum

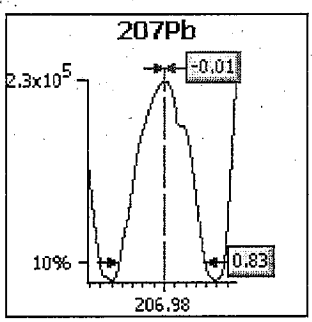


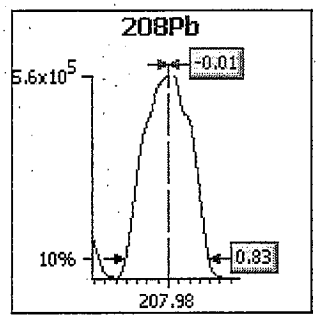












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.85	-0.05
24Mg	0.85	0.65	0.10	0.85	-0.03
25Mg	0.85	0.65	0.10	0.83	-0.03
26Mg	0.85	0.65	0.10	0.83	-0.03
206Pb	0.85	0.65	0.10	0.83	-0.01
207Pb	0.85	0.65	0.10	0.83	-0.01
208Pb	0.85	0.65	0.10	0.83	-0.01

Sample details
Acquired at : 3/1/2010 07:41:09
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Tune conditions

Major	
Extraction	-113.7
Lens 1	-1208
Lens 2	-80.0
Focus	12.4
D1	-47.1
D2	-140
Pole Bias	0.1
Hexapole Bias	-4.0
Nebuliser	0.81

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	60
Vertical	350
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1550
PC Detector	3225

Add. Gases	
He_H2	0.00
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	137Ba++	101Bkg	115In
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0	10.0
Limits	%RSD	-	5.0%	-	5.0%	-	5.0%	-	-	5.0%
	Countrate	-	>8000	>10000	>10000	>10000	>100000	-	-	>300000
1	07:41:43	0.000	25582.953	183952.92	25279.157	29439.311	353142.06	1775.650	8.000	833685.51
2	07:42:01	0.000	25015.426	182069.07	24788.420	29819.986	355508.24	1703.420	8.667	835289.57
3	07:42:19	0.000	25706.476	180505.54	25092.208	29873.415	355484.40	1751.203	7.667	838697.83
4	07:42:37	0.000	26050.343	182918.29	24915.276	30277.477	352168.45	1686.752	9.000	834326.42
5	07:42:55	0.000	25279.157	181118.80	24938.644	29238.958	353724.21	1745.647	13.333	840116.68
x		0.000	25526.871	182112.93	25002.741	29729.830	354005.47	1732.535	9.333	836423.20
σ		0.00	397.61	1379.14	188.48	404.36	1470.10	36.48	2.30	2828.09
%RSD		0.000	1.558	0.757	0.754	1.360	0.415	2.106	24.614	0.338

Run	Time	137Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	-	-	-	-	-	5.0%	-
	Countrate	-	-	-	>100000	>100000	>100000	<30
1	07:41:43	93397.629	783793.22	17898.494	277233.40	226319.59	562835.72	0.000
2	07:42:01	93655.738	785259.89	19979.746	280321.07	227167.68	559944.06	0.000
3	07:42:19	93977.542	791127.86	18746.092	276982.61	226961.56	563931.85	0.000
4	07:42:37	93561.880	786436.82	19767.271	278294.19	225795.89	557662.78	0.000
5	07:42:55	95160.895	792036.18	19255.561	277128.34	229201.91	568823.96	0.000
x		93950.737	787730.79	19129.433	277991.92	227089.32	562639.67	0.000
σ		708.76	3652.42	837.85	1401.44	1299.13	4242.32	0.00
%RSD		0.754	0.464	4.380	0.504	0.572	0.754	0.000

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0300
1	07:41:43	0.019	0.023
2	07:42:01	0.018	0.025
3	07:42:19	0.019	0.024
4	07:42:37	0.018	0.025
5	07:42:55	0.018	0.024
x		0.0184	0.0243
σ		0.00	0.00
%RSD		2.1121	4.3743

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 3/1/2010 07:44:32
Report name : CCT MODE PERF REPORT [5/14/2008 11:21:44]

Tune conditions

Major	
Extraction	-109.8
Lens 1	-1200
Lens 2	-80.0
Focus	1.8
D1	-49.4
D2	-140
Pole Bias	-14.0
Hexapole Bias	-17.0
Nebuliser	0.81

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	60
Vertical	350
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1550
PC Detector	3225

Add. Gases	
He_H2	2.12
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	78Se	115In
Dwell (mSecs)		500.0	10.0
Limits	%RSD	-	5.0%
	Countrate	<20	>75000
1	07:44:33	14.600	119476.71
2	07:44:50	14.133	119120.84
3	07:45:08	14.600	118335.28
4	07:45:25	15.933	119315.56
5	07:45:43	13.933	119177.92
x		14.640	119085.26
σ		0.78	441.19
%RSD		5.326	0.370

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA NORTH CANTON_QSM 3.0.tet
Created By User	martin.nash
Analyte Database	TA NORTH CANTON MULTIMODE.tea
Creation Timestamp	10/10/2007 09:08:48
Last Edited By	Upload
Last Edit Timestamp	3/1/2010 07:49:32
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

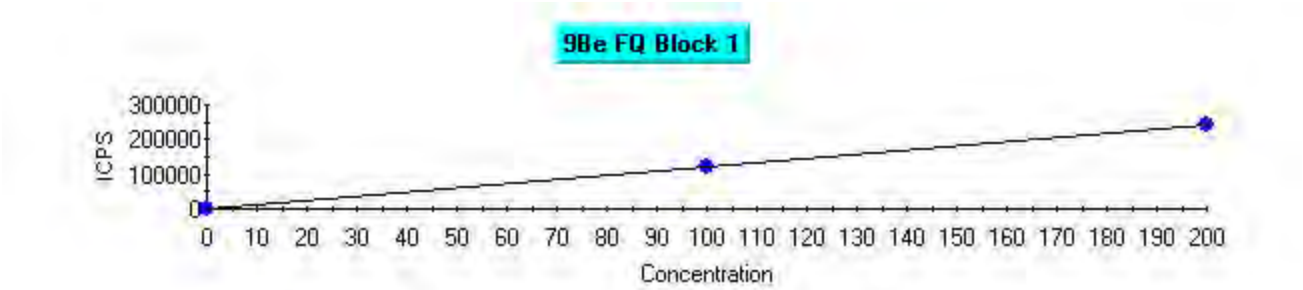
Column headings
- No flag
- Semi Quant
- Standard Addition
- Multi Element

Result cells
- Internal Standard
- Excluded
- QC Warning
- QC Failure

Transient TRA only:
- Peak Not Found
- Manually Edited
- Merged Peak

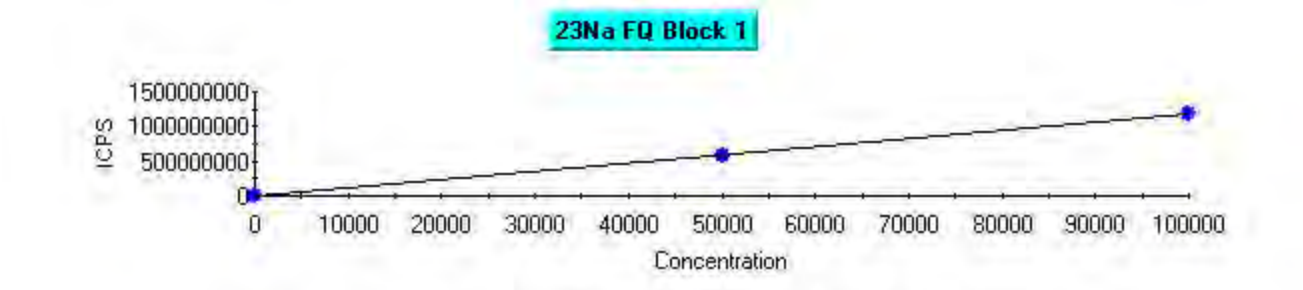
Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Fully Quant Calibration



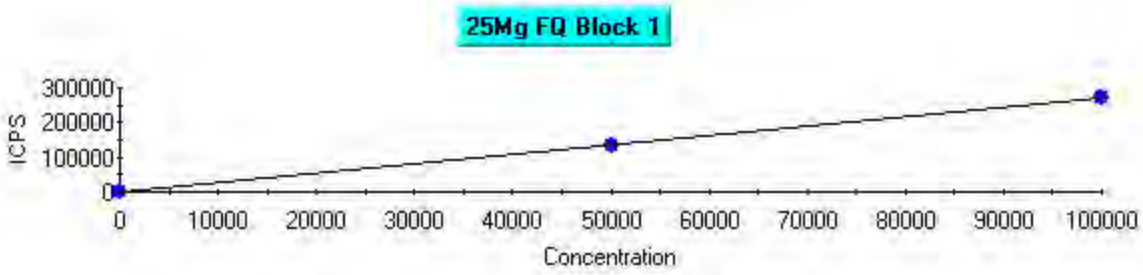
Intercept CPS=27.417545 Intercept Conc=0.022768
Sensitivity=1204.188152 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	27.42	0.00
STD2	100.000	100.260	0.260	120758.97	0.26
STD3	200.000	199.870	0.130	240708.68	0.06



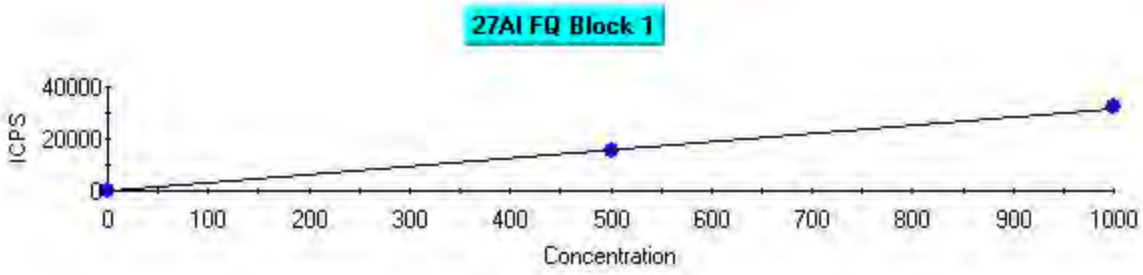
Intercept CPS=186220.536695 Intercept Conc=15.739444
Sensitivity=11831.456206 Correlation Coeff=0.999817

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	186220.54	0.00
STD2	50000.000	48666.827	1333.173	575985657.11	2.67
STD3	100000.000	100666.586	666.586	1191218528.06	0.67



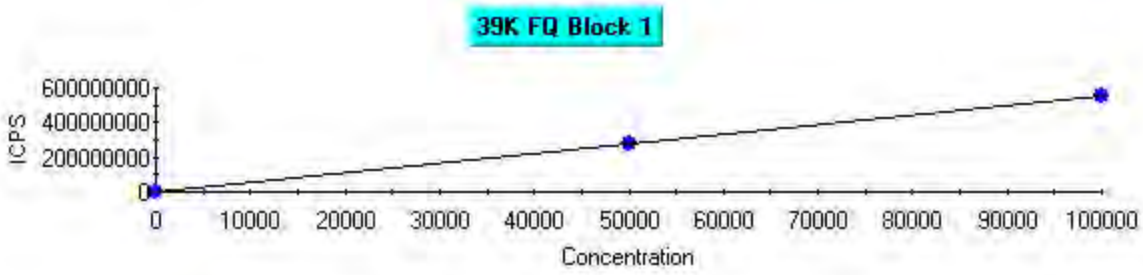
Intercept CPS=7.757268 Intercept Conc=2.862116
Sensitivity=2.710326 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	7.76	0.00
STD2	50000.000	49752.361	247.639	134852.89	0.50
STD3	100000.000	100123.819	123.819	271375.97	0.12



Intercept CPS=256.680800 Intercept Conc=8.136606
Sensitivity=31.546422 Correlation Coeff=0.999804

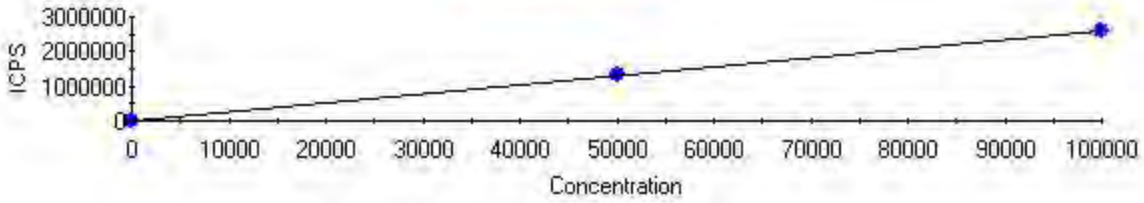
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	256.68	0.00
STD2	500.000	486.181	13.819	15593.96	2.76
STD3	1000.000	1006.909	6.909	32021.07	0.69



Intercept CPS=257905.100706 Intercept Conc=46.904275
Sensitivity=5498.541498 Correlation Coeff=0.999969

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	257905.10	0.00
STD2	50000.000	49451.118	548.882	272166929.63	1.10
STD3	100000.000	100274.441	274.441	551621080.08	0.27

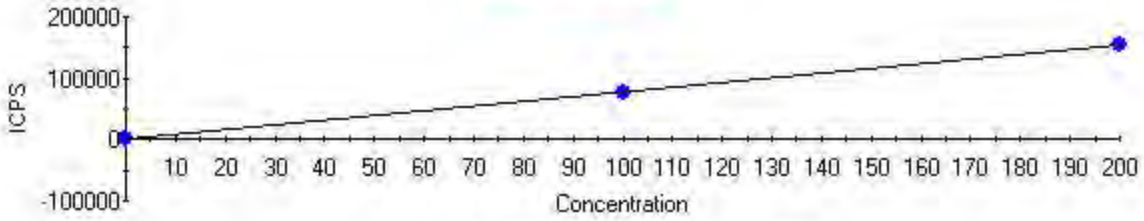
43Ca FQ Block 1



Intercept CPS=1296.899452 Intercept Conc=49.687441
Sensitivity=26.101152 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	1296.90	0.00
STD2	50000.000	50199.506	199.506	1311561.84	0.40
STD3	100000.000	99900.247	99.753	2608808.46	0.10

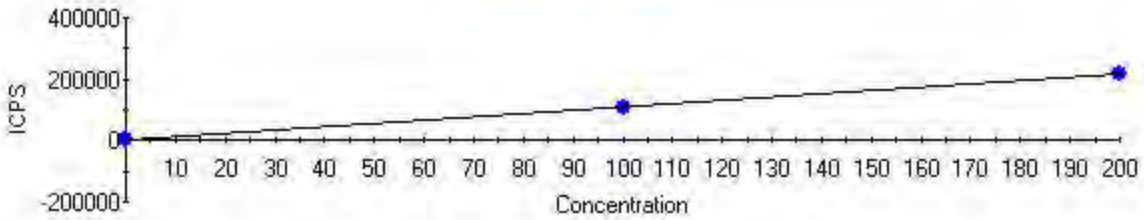
51V FQ Block 1



Intercept CPS=-76.668896 Intercept Conc=-0.099958
Sensitivity=767.012833 Correlation Coeff=0.999919

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-76.67	0.00
STD2	100.000	98.228	1.772	75265.45	1.77
STD3	200.000	200.886	0.886	154005.48	0.44

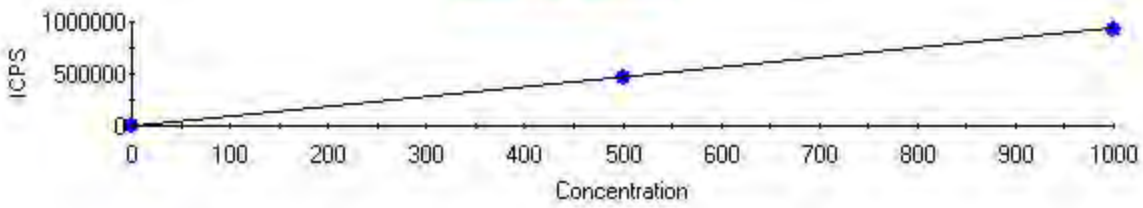
52Cr FQ Block 1



Intercept CPS=-326.395451 Intercept Conc=-0.299774
Sensitivity=1088.805962 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-326.40	0.00
STD2	100.000	99.362	0.638	107859.75	0.64
STD3	200.000	200.319	0.319	217782.02	0.16

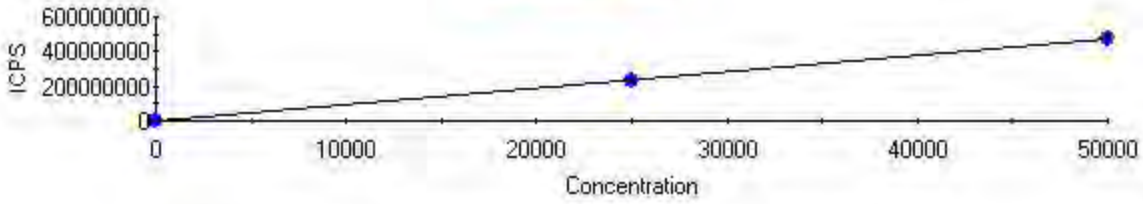
55Mn FQ Block 1



Intercept CPS=47.735397 Intercept Conc=0.051126
Sensitivity=933.685776 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	47.74	0.00
STD2	500.000	503.545	3.545	470200.25	0.71
STD3	1000.000	998.228	1.772	932078.70	0.18

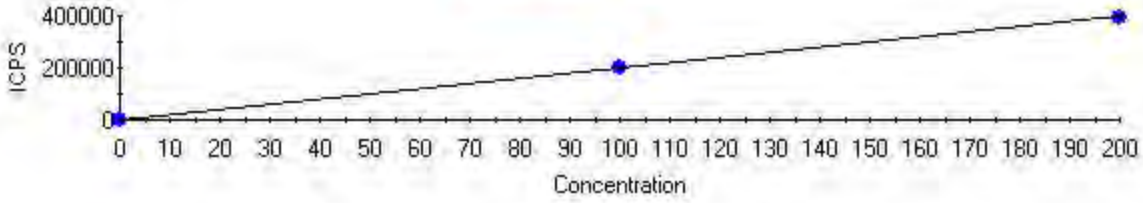
56Fe FQ Block 1



Intercept CPS=766028.862314 Intercept Conc=81.227130
Sensitivity=9430.702021 Correlation Coeff=0.999680

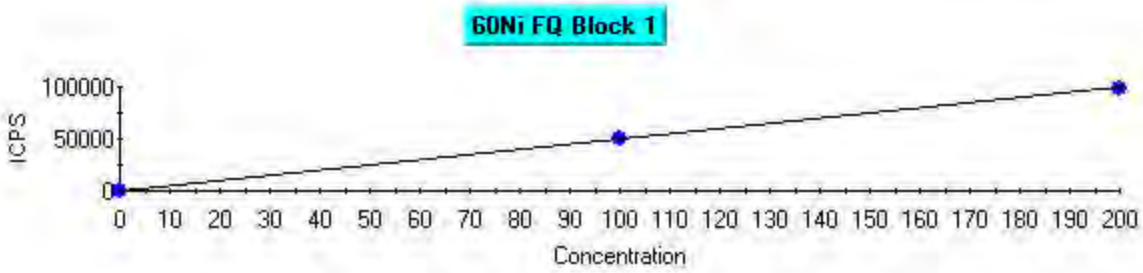
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	766028.86	0.00
STD2	25000.000	24115.186	884.814	228189159.81	3.54
STD3	50000.000	50442.407	442.407	476473339.72	0.88

59Co FQ Block 1



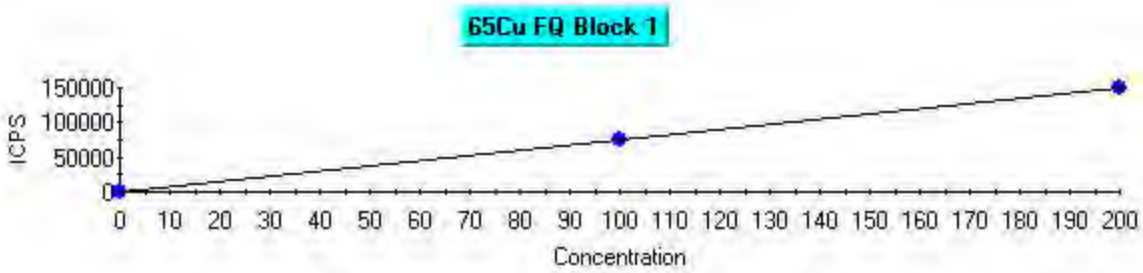
Intercept CPS=3.333378 Intercept Conc=0.001681
Sensitivity=1983.204165 Correlation Coeff=0.999990

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	3.33	0.00
STD2	100.000	100.613	0.613	199539.29	0.61
STD3	200.000	199.694	0.306	396036.39	0.15



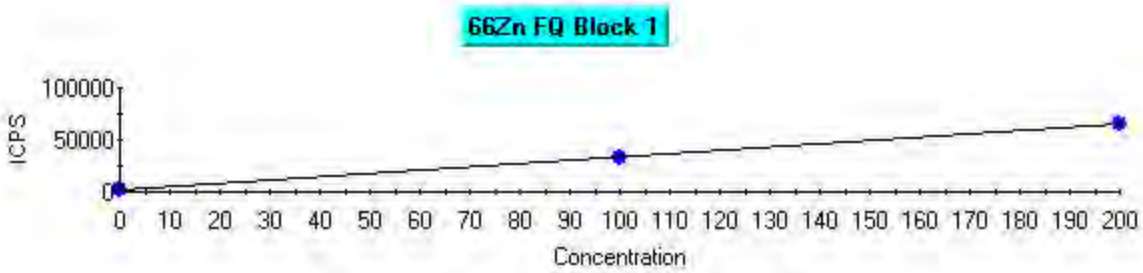
Intercept CPS=33.359834 Intercept Conc=0.067307
Sensitivity=495.634482 Correlation Coeff=0.999971

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	33.36	0.00
STD2	100.000	101.052	1.052	50118.30	1.05
STD3	200.000	199.474	0.526	98899.51	0.26



Intercept CPS=271.064978 Intercept Conc=0.363824
Sensitivity=745.044525 Correlation Coeff=0.999928

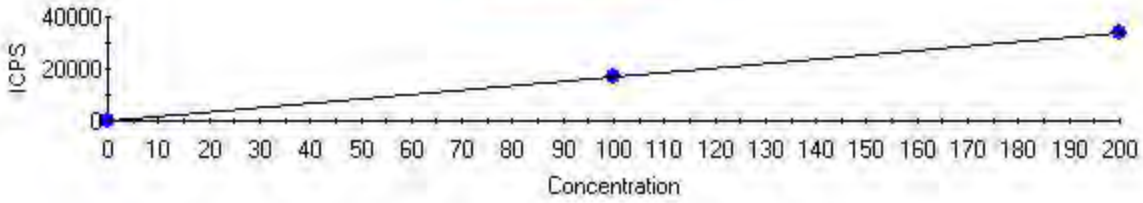
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	271.06	0.00
STD2	100.000	101.654	1.654	76007.55	1.65
STD3	200.000	199.173	0.827	148663.95	0.41



Intercept CPS=1580.169026 Intercept Conc=4.993839
Sensitivity=316.423682 Correlation Coeff=0.999966

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1580.17	0.00
STD2	100.000	101.146	1.146	33585.25	1.15
STD3	200.000	199.427	0.573	64683.55	0.29

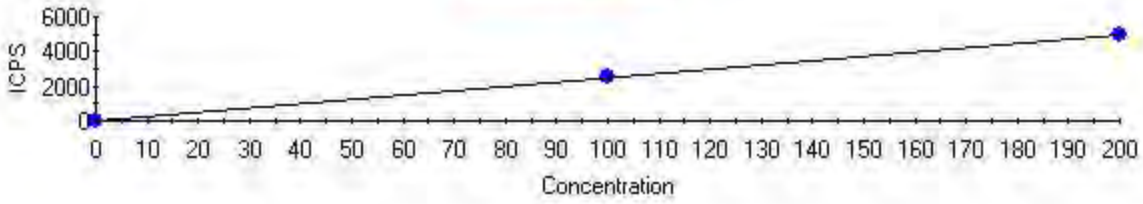
75As FQ Block 1



Intercept CPS=153.341555 Intercept Conc=0.909303
Sensitivity=168.636372 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	153.34	0.00
STD2	100.000	100.635	0.635	17124.10	0.64
STD3	200.000	199.682	0.318	33827.05	0.16

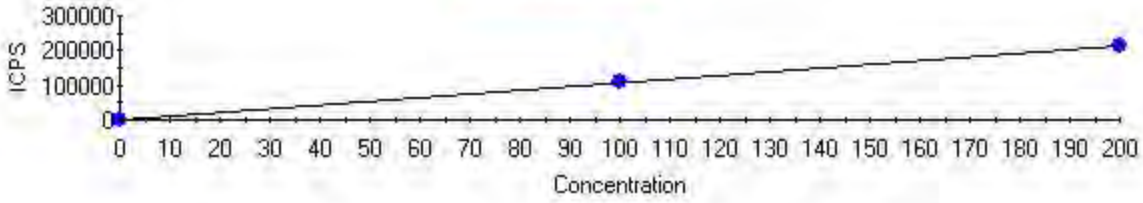
78Se FQ Block 1



Intercept CPS=6.443790 Intercept Conc=0.262393
Sensitivity=24.557758 Correlation Coeff=0.999979

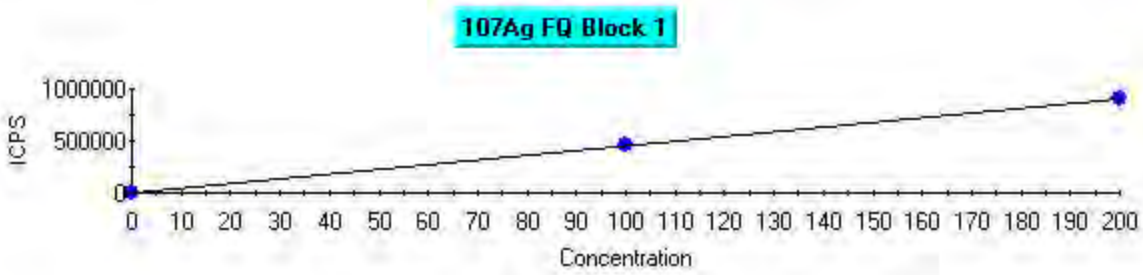
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	6.44	0.00
STD2	100.000	100.886	0.886	2483.98	0.89
STD3	200.000	199.557	0.443	4907.12	0.22

95Mo FQ Block 1



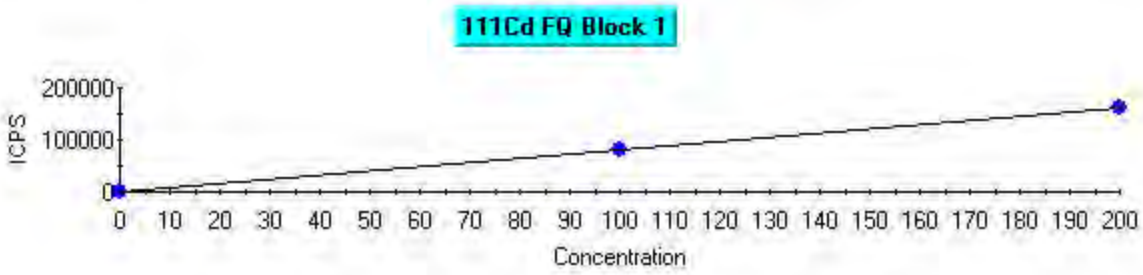
Intercept CPS=13.348159 Intercept Conc=0.012493
Sensitivity=1068.419640 Correlation Coeff=0.999907

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	13.35	0.00
STD2	100.000	101.879	1.879	108863.21	1.88
STD4	200.000	199.060	0.940	212693.33	0.47



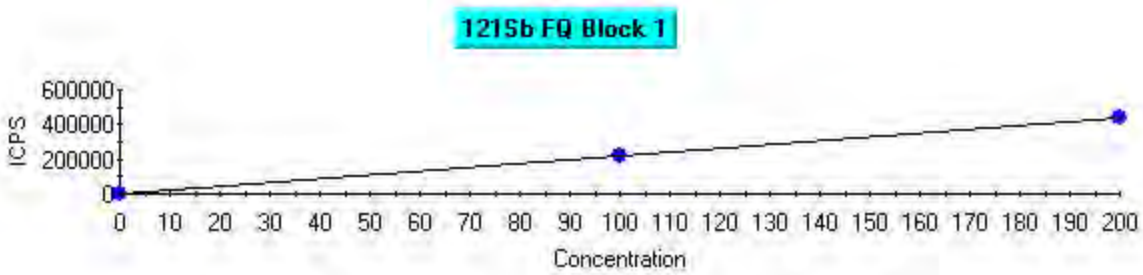
Intercept CPS=14.448945 Intercept Conc=0.003186
Sensitivity=4535.553023 Correlation Coeff=0.999924

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	14.45	0.00
STD2	100.000	101.696	1.696	461261.59	1.70
STD3	200.000	199.152	0.848	903279.14	0.42



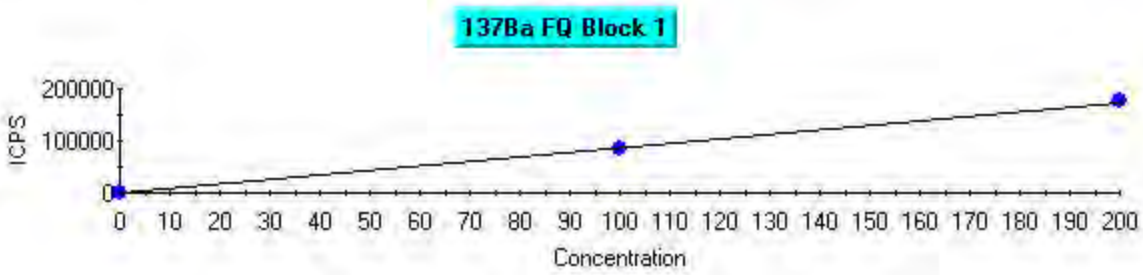
Intercept CPS=5.547812 Intercept Conc=0.006832
Sensitivity=812.010250 Correlation Coeff=0.999988

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	5.55	0.00
STD2	100.000	100.683	0.683	81761.35	0.68
STD3	200.000	199.658	0.342	162130.21	0.17



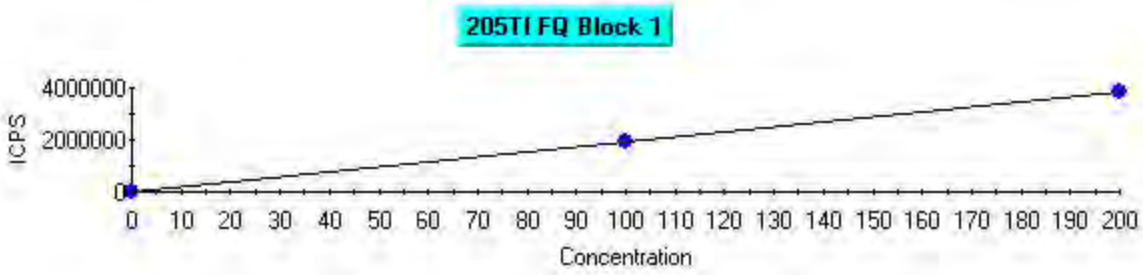
Intercept CPS=75.592748 Intercept Conc=0.034234
Sensitivity=2208.151187 Correlation Coeff=0.999924

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	75.59	0.00
STD2	100.000	98.283	1.717	217100.05	1.72
STD4	200.000	200.858	0.858	443601.16	0.43



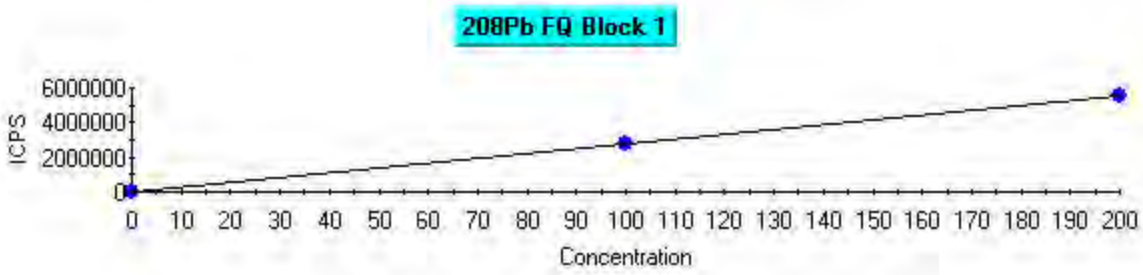
Intercept CPS=111.074407 Intercept Conc=0.127360
Sensitivity=872.131309 Correlation Coeff=0.999953

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	111.07	0.00
STD2	100.000	98.648	1.352	86144.84	1.35
STD3	200.000	200.676	0.676	175127.02	0.34



Intercept CPS=146.718413 Intercept Conc=0.007644
Sensitivity=19194.016670 Correlation Coeff=0.999978

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	146.72	0.00
STD2	100.000	100.924	0.924	1937291.52	0.92
STD3	200.000	199.538	0.462	3830078.48	0.23



Intercept CPS=1292.239126 Intercept Conc=0.046878
Sensitivity=27565.740995 Correlation Coeff=0.999968

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1292.24	0.00
STD2	100.000	98.892	1.108	2727322.95	1.11
STD3	200.000	200.554	0.554	5529712.13	0.28

Dilution Corrected Concentrations

STD1 3/1/2010 07:51:01

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.000%	-0.000	0.000
%RSD		0.228	0.000	0.000
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		0.000	-0.000	T 0.000
%RSD		0.000	0.000	T 0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		-0.000	-0.000	T 100.000%
%RSD		0.000	0.000	T 0.951
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		100.000%	0.000	0.000
%RSD		0.516	0.000	0.000
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.000	0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		0.000	100.000%	0.000
%RSD		0.000	0.373	0.000
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.000	100.000%	0.000
%RSD		0.000	0.933	0.000
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.000	0.000	100.000%
%RSD		0.000	0.000	0.180

STD2 3/1/2010 07:55:30

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		82.878%	100.300	T 48670.000
%RSD		0.439	0.901	T 1.333
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		49750.000	486.200	0.000
%RSD		0.544	1.205	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 49450.000	50200.000	T 78.285%
%RSD		T 0.719	0.476	T 0.514
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		78.904%	98.230	99.360
%RSD		1.284	0.996	0.252
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		5.533	503.500	T 24120.000
%RSD		25.190	0.595	T 0.444
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		100.600	101.100	101.700
%RSD		0.834	1.294	1.079
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		101.100	77.347%	100.600
%RSD		1.207	0.400	1.132
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.460	100.900	101.900
%RSD		27.640	1.995	1.417
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	101.700	91.970
%RSD		0.000	0.246	62.000
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		100.700	80.557%	98.280
%RSD		1.194	0.976	0.112
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		98.650	0.000	0.000
%RSD		1.109	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		100.900	98.890	84.885%
%RSD		0.476	0.711	0.464

STD3 3/1/2010 08:00:07

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.304%	M 199.900	TM 100700.000
%RSD		0.307	M 0.613	TM 1.623
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 100100.000	M 1007.000	0.000
%RSD		M 0.580	M 0.250	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		TM 100300.000	M 99900.000	T 79.293%
%RSD		TM 0.122	M 0.344	T 0.740
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		77.959%	M 200.900	M 200.300
%RSD		1.640	M 0.254	M 0.326
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		11.890	M 998.200	TM 50440.000
%RSD		10.690	M 0.733	TM 0.119
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		199.700	M 199.500	M 199.200
%RSD		0.143	M 0.547	M 0.530
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 199.400	76.729%	M 199.700
%RSD		M 1.846	0.125	M 2.205
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.934	M 199.600	0.120
%RSD		16.950	M 2.197	24.480
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	M 199.200	203.700
%RSD		0.000	M 0.561	19.390
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		199.700	79.888%	0.087
%RSD		0.089	1.195	2.924
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 200.700	0.000	0.000
%RSD		M 0.338	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		TM 199.500	M 200.600	82.589%
%RSD		TM 0.245	M 0.576	0.878

STD4 3/1/2010 08:05:05

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.493%	0.139	68.810
%RSD		0.460	5.486	1.756
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		59.360	-1.610	0.000
%RSD		1.452	93.740	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		65.550	54.770	T 80.419%
%RSD		2.446	3.441	T 0.479
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.037%	0.021	0.068
%RSD		1.307	974.400	26.530
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-1.464	0.726	17.560
%RSD		12.390	6.764	7.438
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.195	0.234	0.606
%RSD		9.070	28.460	14.490
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-1.934	83.941%	0.044
%RSD		14.340	0.853	241.400
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.005	0.258	199.100
%RSD		411.200	55.090	0.257
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.129	8.809
%RSD		0.000	12.540	58.250
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.152	84.444%	M 200.900
%RSD		8.571	0.772	M 0.934
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.137	0.000	0.000
%RSD		18.640	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.338	0.176	97.683%
%RSD		8.029	1.416	0.184

ICV 3/1/2010 08:09:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		84.864%	103.646%	T 105.055%
%RSD		0.900	1.190	T 2.223
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		104.309%	103.455%	0.000
%RSD		0.422	2.373	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 101.954%	105.310%	T 80.921%
%RSD		T 0.783	0.423	T 0.803
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		80.090%	102.153%	104.549%
%RSD		2.294	1.148	1.118
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.900	104.225%	T 100.844%
%RSD		13.110	0.882	T 0.516
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		104.280%	105.484%	105.016%
%RSD		0.199	0.762	1.348
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.124%	79.179%	101.397%
%RSD		1.454	0.197	1.357
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.142	103.329%	102.448%
%RSD		78.550	2.238	0.668
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	105.571%	18.510
%RSD		0.000	0.471	300.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		104.783%	83.245%	101.883%
%RSD		0.871	1.090	0.767
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		102.097%	0.000	0.000
%RSD		0.545	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		103.524%	100.863%	89.951%
%RSD		0.473	0.886	0.913

ICB 3/1/2010 08:14:18 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.505%	0.006	2.258
%RSD		0.088	109.200	12.970
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		-0.284	-1.830	0.000
%RSD		1571.000	42.890	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		2.961	1.961	T 80.183%
%RSD		57.680	130.500	T 0.435
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		80.891%	0.078	0.009
%RSD		1.478	95.530	217.200
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-1.134	0.002	-14.640
%RSD		8.053	693.900	1.581
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.002	0.013	-0.012
%RSD		83.850	259.800	969.500
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.005	81.053%	0.006
%RSD		1212.000	0.570	1103.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.061	-0.123	0.029
%RSD		70.050	84.750	56.860
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.002	-0.684
%RSD		0.000	116.000	109.700
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.001	85.460%	0.045
%RSD		861.400	1.046	39.410
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.004	0.000	0.000
%RSD		828.300	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.200	0.014	96.621%
%RSD		10.600	31.620	1.005

CRI 3/1/2010 08:18:49 QC Status: FAIL (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.001%	110.766%	T 103.433%
%RSD		0.934	4.698	T 1.892
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		101.960%	91.391%	0.000
%RSD		1.213	3.598	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 99.690%	105.921%	T 80.869%
%RSD		T 0.486	0.540	T 0.630
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		81.687%	99.460%	100.272%
%RSD		1.761	2.622	5.717
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.818	120.260%	77.060%
%RSD		3.748	1.390	5.317
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		106.985%	114.386%	123.864%
%RSD		2.749	7.791	7.336
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		76.614%	80.089%	104.088%
%RSD		10.450	0.337	5.428
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.045	112.396%	98.526%
%RSD		104.200	10.740	1.114
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	113.975%	-0.165
%RSD		0.000	3.976	541.900
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		115.052%	86.191%	103.594%
%RSD		13.810	1.289	2.035
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		87.321%	0.000	0.000
%RSD		2.476	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		109.265%	98.607%	96.980%
%RSD		0.501	1.971	0.555

CRIQ 3/1/2010 08:23:27 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.976%	100.734%	T 99.196%
%RSD		0.970	1.265	T 2.244
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		102.288%	89.335%	0.000
%RSD		0.752	9.375	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 96.863%	103.910%	T 78.437%
%RSD		T 0.673	0.351	T 0.819
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.168%	97.234%	96.759%
%RSD		2.464	5.648	6.088
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.601	106.279%	83.875%
%RSD		48.860	2.881	5.079
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		102.030%	106.480%	111.333%
%RSD		2.457	2.924	0.772
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		98.693%	78.417%	100.348%
%RSD		2.224	0.312	3.781
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.037	109.342%	100.776%
%RSD		67.770	9.688	2.043
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	106.617%	-4.441
%RSD		0.000	3.387	88.340
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		96.871%	85.785%	95.349%
%RSD		8.500	1.842	4.460
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		93.232%	0.000	0.000
%RSD		2.627	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.484%	93.940%	95.687%
%RSD		1.264	1.181	0.712

ICSA 3/1/2010 08:28:00 QC Status: FAIL (Initial: FAIL)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		77.199%	0.010	T 52080.000
%RSD		1.149	95.230	T 1.815
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		52840.000	M 51410.000	0.000
%RSD		0.548	M 0.360	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 51620.000	54860.000	T 71.151%
%RSD		T 0.344	0.279	T 0.342
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		73.014%	-0.396	0.507
%RSD		2.297	33.400	7.066
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.508	2.433	TM 50300.000
%RSD		21.450	6.800	TM 0.524
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.055	0.421	0.256
%RSD		6.604	30.210	27.020
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-2.506	74.800%	0.091
%RSD		2.578	0.143	89.500
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.116	0.076	M 1015.000
%RSD		30.140	243.000	M 0.549
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.035	38.750
%RSD		0.000	17.000	7.950
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.027	79.341%	0.135
%RSD		162.000	1.998	23.190
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.702	0.000	0.000
%RSD		12.810	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.071	0.086	88.016%
%RSD		2.080	2.506	1.223

ICSAB 3/1/2010 08:32:34 QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.088%	98.589%	T 106.792%
%RSD		0.558	0.616	T 1.874
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		105.335%	M 102.610%	0.000
%RSD		1.377	M 1.201	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 103.246%	108.454%	T 75.015%
%RSD		T 0.156	0.770	T 0.792
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.864%	100.808%	104.032%
%RSD		2.456	1.435	0.836
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		6.095	110.046%	TM 102.303%
%RSD		3.003	1.565	TM 0.701
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.622%	103.174%	99.125%
%RSD		1.239	1.077	1.131
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		99.929%	77.736%	97.456%
%RSD		2.259	0.788	1.437
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.272	103.033%	M 1100.000
%RSD		22.830	3.248	M 0.346
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	99.879%	75.810
%RSD		0.000	0.520	39.690
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.079%	81.255%	100.358%
%RSD		0.589	1.450	1.196
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		99.849%	0.000	0.000
%RSD		0.944	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		102.787%	99.123%	91.914%
%RSD		0.326	0.612	0.982

CCV 3/1/2010 08:37:21 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.506%	95.410%	T 99.218%
%RSD		1.004	0.636	T 2.375
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		99.461%	99.155%	0.000
%RSD		1.635	0.777	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 98.375%	101.311%	T 78.700%
%RSD		T 0.633	0.145	T 0.253
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.642%	96.109%	98.520%
%RSD		1.939	0.547	0.254
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.440	101.964%	T 97.167%
%RSD		20.330	1.474	T 1.141
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.549%	99.639%	99.550%
%RSD		0.884	0.636	0.962
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.109%	77.492%	99.934%
%RSD		1.754	0.210	1.842
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.582	101.170%	100.621%
%RSD		32.840	1.632	0.887
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	99.772%	94.510
%RSD		0.000	0.890	16.760
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.664%	82.831%	98.388%
%RSD		1.180	0.913	1.264
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.223%	0.000	0.000
%RSD		0.587	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.705%	96.594%	92.920%
%RSD		0.363	0.526	0.882

CCB 3/1/2010 08:42:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.731%	0.008	3.462
%RSD		0.809	22.270	11.290
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		0.573	-1.447	0.000
%RSD		392.300	49.680	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		4.118	0.406	T 78.918%
%RSD		24.210	799.500	T 0.296
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		83.683%	-0.058	0.022
%RSD		1.253	284.600	44.400
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.688	0.036	-15.720
%RSD		11.210	37.390	1.769
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.018	0.007	0.037
%RSD		17.960	317.900	132.100
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.252	79.793%	0.146
%RSD		127.600	0.816	51.420
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.122	0.007	0.098
%RSD		19.640	1771.000	17.070
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.006	-0.251
%RSD		0.000	67.380	0.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.001	88.081%	0.026
%RSD		541.600	1.493	60.320
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.011	0.000	0.000
%RSD		161.800	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.219	0.017	102.517%
%RSD		10.800	10.370	0.788

LV4H9B 3/1/2010 08:46:52 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.396%	-0.002	56.590
%RSD		0.781	90.490	1.021
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		30.940	6.711	0.000
%RSD		31.560	29.710	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		38.240	162.500	T 79.092%
%RSD		3.843	2.582	T 0.575
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		82.538%	-0.163	0.821
%RSD		1.203	20.160	10.680
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-1.284	0.793	15.220
%RSD		7.222	5.194	5.135
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.015	0.474	0.595
%RSD		53.600	13.250	21.890
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		6.896	81.498%	0.002
%RSD		5.816	0.037	4108.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.242	0.117	0.091
%RSD		12.140	40.370	34.750
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.004	-0.464
%RSD		0.000	46.700	79.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.001	88.683%	0.001
%RSD		410.900	0.968	1185.000
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.605	0.000	0.000
%RSD		21.570	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.120	0.186	101.095%
%RSD		1.587	5.439	0.639

LV4H9C 3/1/2010 08:51:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		83.059%	83.440	T 9671.000
%RSD		0.380	0.471	T 0.829
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10120.000	M 9938.000	0.000
%RSD		0.675	M 1.310	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9727.000	10650.000	T 72.335%
%RSD		T 0.861	1.067	T 0.994
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		76.405%	89.710	92.580
%RSD		0.984	1.752	0.998
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.783	102.900	T 9477.000
%RSD		24.980	1.764	T 0.771
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		94.200	94.700	94.900
%RSD		1.032	0.417	1.397
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		99.790	71.684%	84.250
%RSD		0.448	0.781	1.121
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.181	80.700	97.220
%RSD		84.220	2.787	0.471
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	98.480	22.970
%RSD		0.000	0.418	41.940
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		88.090	82.076%	90.600
%RSD		1.706	0.730	0.989
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		91.120	0.000	0.000
%RSD		0.743	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		93.260	91.060	93.827%
%RSD		0.576	0.756	0.537

LV3H6 3/1/2010 08:56:05 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		74.630%	1.422	T 411.400
%RSD		0.472	4.026	T 1.361
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		61700.000	M 25820.000	0.000
%RSD		1.117	M 0.742	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 4303.000	TM 195600.000	T 74.205%
%RSD		T 0.443	TM 0.528	T 0.763
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		75.013%	49.720	46.400
%RSD		1.522	1.104	0.283
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.332	M 2589.000	TM 106300.000
%RSD		255.000	M 0.958	TM 0.704
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		29.850	82.840	103.500
%RSD		1.215	0.931	0.487
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 464.300	72.514%	60.470
%RSD		M 0.627	1.126	1.355
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.458	4.363	5.726
%RSD		19.500	2.829	2.907
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.132	-19.200
%RSD		0.000	10.830	14.280
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.553	81.597%	0.679
%RSD		4.915	1.568	6.416
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		147.800	0.000	0.000
%RSD		1.247	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.793	53.610	90.461%
%RSD		3.124	0.554	0.952

LV3JM 3/1/2010 09:00:37 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		74.897%	1.475	T 589.400
%RSD		0.809	2.808	T 1.645
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 181200.000	M 20990.000	0.000
%RSD		M 0.917	M 1.486	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3482.000	TM 426900.000	T 76.939%
%RSD		T 0.557	TM 0.082	T 0.748
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.341%	48.510	50.910
%RSD		1.687	0.807	0.796
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.772	M 2974.000	TM 135900.000
%RSD		36.750	M 0.507	TM 0.479
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		24.920	62.160	85.780
%RSD		1.700	2.580	1.168
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 330.700	75.076%	48.120
%RSD		M 1.323	0.724	0.946
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.538	3.705	8.187
%RSD		9.535	8.950	4.039
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.107	-18.630
%RSD		0.000	6.965	24.030
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.585	80.377%	0.634
%RSD		8.916	1.193	4.811
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		118.100	0.000	0.000
%RSD		1.151	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.487	52.620	84.242%
%RSD		3.077	0.955	0.929

LV3JV 3/1/2010 09:05:07 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		73.371%	2.566	T 534.300
%RSD		0.625	1.985	T 1.007
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		37320.000	M 47030.000	0.000
%RSD		0.523	M 0.347	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9498.000	M 143100.000	T 74.776%
%RSD		T 0.196	M 0.688	T 0.902
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.302%	92.750	75.330
%RSD		1.095	1.266	0.264
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.434	M 2192.000	TM 141700.000
%RSD		35.520	M 0.294	TM 0.514
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		49.650	125.000	140.400
%RSD		0.591	0.584	0.832
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 432.000	72.699%	78.370
%RSD		M 0.524	0.653	1.257
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.529	4.341	12.030
%RSD		12.350	17.700	1.809
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.181	-24.230
%RSD		0.000	4.639	71.630
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.560	79.894%	0.645
%RSD		16.260	0.826	4.864
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 292.900	0.000	0.000
%RSD		M 1.000	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.090	72.620	92.343%
%RSD		1.954	0.891	0.586

LV3JW 3/1/2010 09:09:43 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		71.494%	3.488	T 601.000
%RSD		0.683	1.647	T 0.998
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		43640.000	M 62690.000	0.000
%RSD		0.476	M 0.423	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 10530.000	TM 267600.000	T 75.149%
%RSD		T 0.329	TM 0.109	T 1.100
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		73.983%	119.400	107.600
%RSD		1.165	0.840	0.620
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.317	M 2525.000	TM 181600.000
%RSD		10.750	M 0.501	TM 0.462
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		68.870	162.500	166.100
%RSD		0.691	0.810	1.148
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 489.200	74.162%	93.260
%RSD		M 0.532	0.683	0.410
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.597	5.667	14.910
%RSD		15.580	1.256	1.422
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.195	-30.450
%RSD		0.000	5.434	33.540
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.698	80.066%	0.668
%RSD		8.111	0.635	3.472
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 401.100	0.000	0.000
%RSD		M 0.622	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.405	86.060	91.454%
%RSD		0.088	0.468	0.624

LV3J1 3/1/2010 09:14:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		72.107%	4.685	T 782.500
%RSD		0.926	1.368	T 1.140
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		52960.000	M 87390.000	0.000
%RSD		0.751	M 0.776	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 15970.000	TM 213800.000	T 75.846%
%RSD		T 1.077	TM 0.174	T 0.334
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		73.672%	159.200	142.400
%RSD		1.156	0.496	0.704
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		9.419	M 3275.000	TM 211200.000
%RSD		15.050	M 0.586	TM 0.350
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		88.630	M 216.200	161.900
%RSD		1.040	M 0.716	1.408
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 481.500	73.731%	83.060
%RSD		M 0.499	0.608	1.559
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.779	5.679	12.790
%RSD		24.330	8.969	1.301
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.166	-37.840
%RSD		0.000	13.610	18.850
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.683	78.406%	0.633
%RSD		14.300	1.069	4.780
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 505.100	0.000	0.000
%RSD		M 0.581	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.561	90.760	90.674%
%RSD		1.514	0.804	0.634

LV4H5B 3/1/2010 09:18:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.691%	-0.001	6.581
%RSD		0.257	511.600	1.555
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		76.500	81.630	0.000
%RSD		9.783	7.064	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		3.532	109.900	T 84.443%
%RSD		14.930	4.695	T 0.398
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		83.667%	-0.150	0.188
%RSD		0.416	69.050	10.020
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.416	3.856	64.800
%RSD		21.370	14.200	4.755
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.138	0.268	0.290
%RSD		25.360	22.590	18.520
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		4.076	86.131%	0.148
%RSD		14.220	0.209	51.990
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.186	0.021	0.025
%RSD		3.977	306.400	40.640
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.003	-0.096
%RSD		0.000	48.610	899.100
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.002	89.617%	0.074
%RSD		206.100	0.331	39.390
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.488	0.000	0.000
%RSD		12.970	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.035	0.110	105.059%
%RSD		10.570	18.650	0.309

LV4H5C 3/1/2010 09:23:26 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.587%	98.360	T 9821.000
%RSD		0.890	1.451	T 1.310
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10090.000	M 9911.000	0.000
%RSD		1.684	M 0.267	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9883.000	10390.000	T 79.455%
%RSD		T 0.379	0.678	T 0.373
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		80.679%	95.500	96.820
%RSD		0.928	1.313	0.571
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		6.264	104.100	T 9766.000
%RSD		17.610	0.863	T 0.533
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.260	101.700	101.500
%RSD		0.685	0.544	2.310
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		104.700	79.655%	98.840
%RSD		1.314	0.713	0.405
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.238	104.300	96.690
%RSD		31.860	2.500	0.707
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.900	9.975
%RSD		0.000	0.595	415.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.100	85.500%	98.180
%RSD		0.755	1.079	0.637
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		94.920	0.000	0.000
%RSD		0.539	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		95.570	93.760	98.539%
%RSD		0.474	0.214	0.819

LV30J 3/1/2010 09:28:22 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.112%	0.006	T 23100.000
%RSD		0.305	210.400	T 1.187
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		82350.000	11.970	T 0.000
%RSD		0.819	12.230	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3073.000	TM 223500.000	T 90.202%
%RSD		T 0.562	TM 0.274	T 0.388
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		84.108%	-0.160	-0.129
%RSD		0.820	177.800	43.600
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.504	271.600	T 744.000
%RSD		82.190	0.556	T 0.819
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		1.809	5.473	0.502
%RSD		6.824	4.164	11.380
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		3.609	90.208%	1.709
%RSD		7.008	0.313	0.945
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.181	0.318	5.983
%RSD		50.570	61.410	1.163
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.004	-0.229
%RSD		0.000	88.530	634.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.013	87.395%	0.149
%RSD		20.400	0.200	16.190
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		24.750	0.000	0.000
%RSD		0.928	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.689	0.031	91.056%
%RSD		2.830	11.210	0.817

CCV 1 3/1/2010 09:32:53 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.610%	97.435%	T 98.541%
%RSD		0.308	0.682	T 1.498
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		99.602%	99.762%	0.000
%RSD		1.585	0.930	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 100.635%	100.660%	T 79.116%
%RSD		T 0.304	0.062	T 0.645
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		79.596%	97.030%	98.645%
%RSD		1.747	1.456	0.175
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		6.603	100.890%	T 99.042%
%RSD		18.060	1.335	T 0.433
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		98.838%	100.665%	101.387%
%RSD		0.698	0.348	0.630
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		101.236%	77.451%	100.932%
%RSD		1.604	0.517	0.385
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.449	101.758%	100.616%
%RSD		15.280	1.427	0.581
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	100.396%	104.900
%RSD		0.000	0.603	67.200
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		100.145%	82.857%	98.156%
%RSD		0.426	1.283	0.262
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		97.335%	0.000	0.000
%RSD		0.489	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		99.558%	96.207%	91.904%
%RSD		0.168	0.765	0.779

CCB 1 3/1/2010 09:38:10 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.084%	0.017	6.555
%RSD		0.292	49.020	4.779
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		7.766	-0.671	T 0.000
%RSD		108.400	61.500	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		5.928	9.849	T 77.466%
%RSD		16.250	36.030	T 0.795
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.113%	0.150	0.016
%RSD		1.297	37.930	212.000
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-1.135	0.079	-11.440
%RSD		9.087	7.550	17.680
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.018	0.011	0.108
%RSD		44.530	227.600	47.300
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.034	79.042%	0.107
%RSD		641.900	0.554	5.609
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.137	0.093	0.053
%RSD		45.070	97.830	22.340
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.010	-0.907
%RSD		0.000	38.820	72.740
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.012	85.976%	0.026
%RSD		104.100	1.075	5.443
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.023	0.000	0.000
%RSD		195.800	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.238	0.023	100.961%
%RSD		8.861	20.070	0.761

LV3K1 3/1/2010 09:42:45 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.780%	3.006	T 781.400
%RSD		0.459	1.241	T 2.128
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		20210.000	TM 117400.000	T 0.000
%RSD		2.023	TM 1.204	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 7018.000	4121.000	T 91.896%
%RSD		T 0.429	0.648	T 1.015
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		89.955%	M 229.100	136.900
%RSD		2.820	M 0.582	0.263
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.440	M 1401.000	TM 191800.000
%RSD		10.530	M 0.542	TM 1.098
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		43.030	94.700	84.370
%RSD		0.521	1.968	0.997
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 318.500	89.647%	88.100
%RSD		M 0.270	0.495	1.381
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.560	6.645	12.440
%RSD		7.720	2.695	1.231
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.182	-29.200
%RSD		0.000	10.390	44.270
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.214	91.525%	1.175
%RSD		19.180	1.489	1.773
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 364.300	0.000	0.000
%RSD		M 0.776	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.541	92.480	101.791%
%RSD		1.023	0.679	0.956

LV3K1L 3/1/2010 09:47:19 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		102.932%	0.634	159.800
%RSD		0.439	4.754	1.079
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		4154.000	M 24840.000	T 0.000
%RSD		1.342	M 1.009	T 0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 1444.000	842.300	T 94.854%
%RSD		T 0.399	1.088	T 0.723
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		93.050%	47.030	28.080
%RSD		1.891	0.653	0.661
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		1.309	289.800	T 38530.000
%RSD		7.344	1.179	T 0.471
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		8.788	20.020	18.280
%RSD		1.799	2.153	0.704
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		69.500	93.951%	19.770
%RSD		0.923	0.661	1.290
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.032	1.549	2.453
%RSD		119.900	10.830	4.625
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.045	-5.211
%RSD		0.000	10.160	20.120
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.056	95.479%	0.263
%RSD		40.070	1.101	9.396
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		73.380	0.000	0.000
%RSD		0.462	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.363	18.850	106.689%
%RSD		1.532	0.945	0.621

LV3K1A 3/1/2010 09:51:55 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		93.467%	103.700	T 11370.000
%RSD		0.732	0.503	T 1.115
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		30530.000	TM 124800.000	T 0.000
%RSD		0.527	TM 0.532	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 17520.000	14950.000	T 92.124%
%RSD		T 0.912	0.539	T 0.316
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.103%	M 325.100	M 238.100
%RSD		1.828	M 0.567	M 0.926
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		16.120	M 1464.000	TM 196800.000
%RSD		12.910	M 1.029	TM 0.447
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		146.000	195.600	184.100
%RSD		0.671	0.551	0.654
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 406.400	88.597%	178.500
%RSD		M 0.799	0.477	0.497
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.290	94.110	118.100
%RSD		46.920	1.065	0.353
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	104.300	30.690
%RSD		0.000	1.204	64.010
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.200	90.181%	99.360
%RSD		0.341	0.919	0.631
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 455.100	0.000	0.000
%RSD		M 0.721	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		106.000	188.000	98.499%
%RSD		1.197	0.978	1.342

LV3K1S/10 3/1/2010 09:56:24 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		110.796%	9.878	T 1093.000
%RSD		0.814	0.702	T 2.153
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3262.000	M 14860.000	T 0.000
%RSD		0.976	M 1.326	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1889.000	1364.000	T 102.080%
%RSD		T 0.792	1.314	T 0.409
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		98.319%	34.370	24.750
%RSD		1.876	0.920	1.201
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.221	166.300	T 21080.000
%RSD		34.760	0.630	T 0.843
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		13.950	20.820	18.990
%RSD		0.809	2.448	2.578
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		47.100	98.069%	19.230
%RSD		1.366	0.299	0.854
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.046	10.250	9.664
%RSD		68.180	8.109	0.661
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	9.814	-8.738
%RSD		0.000	1.354	119.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		9.521	97.933%	3.829
%RSD		2.391	1.020	1.101
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		48.190	0.000	0.000
%RSD		0.379	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		9.210	18.750	107.275%
%RSD		1.615	0.613	0.508

LV3K1D/10 3/1/2010 10:00:54 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		108.018%	9.270	T 1041.000
%RSD		0.758	0.817	T 1.678
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2986.000	M 13340.000	T 0.000
%RSD		0.735	M 0.635	T 0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1618.000	1376.000	T 97.482%
%RSD		T 0.350	0.902	T 0.277
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		96.504%	31.160	22.310
%RSD		1.211	1.151	0.834
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.445	155.300	T 18890.000
%RSD		33.360	0.367	T 0.148
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		12.900	18.850	17.980
%RSD		1.046	0.925	1.228
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		44.920	95.583%	17.980
%RSD		1.726	0.250	2.904
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.092	9.206	9.792
%RSD		38.260	3.886	1.063
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	9.806	-3.833
%RSD		0.000	1.472	330.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		8.858	98.122%	3.229
%RSD		1.573	0.653	4.057
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		43.780	0.000	0.000
%RSD		1.533	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		8.615	17.140	106.857%
%RSD		0.800	1.527	0.362

LV3P4 3/1/2010 10:05:24 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		74.558%	0.004	TM 184100.000
%RSD		1.001	312.700	TM 0.681
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		58110.000	53.940	0.000
%RSD		0.630	2.172	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 14720.000	TM 312100.000	T 78.917%
%RSD		T 0.303	TM 0.431	T 2.001
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.592%	0.218	0.481
%RSD		1.441	128.900	13.240
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-1.421	M 1238.000	T 447.000
%RSD		14.070	M 1.516	T 0.382
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		1.044	3.096	0.472
%RSD		8.974	4.394	9.055
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		5.662	75.512%	1.086
%RSD		8.866	1.658	10.930
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.111	0.031	0.848
%RSD		67.060	495.500	5.762
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.000	-0.102
%RSD		0.000	682.500	2437.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.199	82.412%	0.187
%RSD		8.795	1.195	3.285
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 346.500	0.000	0.000
%RSD		M 1.072	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.251	0.170	87.034%
%RSD		3.010	2.490	0.616

LV3P4L 3/1/2010 10:09:59 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.811%	0.003	T 38920.000
%RSD		0.782	97.200	T 1.359
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		12060.000	7.303	0.000
%RSD		1.932	10.120	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2991.000	61420.000	T 79.550%
%RSD		T 1.276	0.150	T 0.487
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		79.115%	-0.050	0.093
%RSD		2.230	62.700	19.650
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.741	251.600	76.420
%RSD		18.330	1.046	2.707
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.201	0.657	0.255
%RSD		5.732	22.730	23.590
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.065	80.934%	0.234
%RSD		224.000	0.310	18.190
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.041	-0.070	0.157
%RSD		135.400	106.800	10.120
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.000	-0.686
%RSD		0.000	8237.000	109.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.026	84.312%	0.066
%RSD		49.010	1.675	10.520
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		67.520	0.000	0.000
%RSD		0.371	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.088	0.046	95.744%
%RSD		3.695	10.070	0.548

LV31D 3/1/2010 10:14:30 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.632%	-0.002	T 44210.000
%RSD		0.507	407.600	T 2.029
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		49720.000	3.103	0.000
%RSD		0.714	15.160	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3715.000	TM 165500.000	T 78.798%
%RSD		T 0.570	TM 0.573	T 0.422
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		78.948%	-0.259	0.045
%RSD		1.807	52.670	48.940
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.293	142.400	T 310.900
%RSD		72.110	1.303	T 0.378
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.841	1.751	0.741
%RSD		0.469	2.365	10.300
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		5.340	79.385%	1.250
%RSD		4.992	0.731	4.113
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.164	-0.073	14.720
%RSD		23.330	199.800	0.364
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.001	-0.086
%RSD		0.000	234.500	1842.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.014	83.145%	0.089
%RSD		131.300	0.848	15.750
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		68.380	0.000	0.000
%RSD		1.149	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.124	0.034	92.310%
%RSD		0.348	6.973	1.141

LV31H 3/1/2010 10:19:01 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		82.071%	0.001	T 45490.000
%RSD		0.234	190.500	T 0.826
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		51150.000	14.000	0.000
%RSD		1.283	8.805	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3738.000	TM 169900.000	T 79.275%
%RSD		T 0.370	TM 0.657	T 0.226
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		76.991%	0.012	0.079
%RSD		0.870	2152.000	54.510
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.518	145.800	T 387.100
%RSD		46.080	1.176	T 1.054
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.868	1.800	0.489
%RSD		5.093	5.194	14.760
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		2.313	79.143%	1.392
%RSD		20.580	0.794	7.174
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.234	0.107	14.950
%RSD		8.564	140.600	0.398
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.001	-0.817
%RSD		0.000	130.600	257.600
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.012	81.465%	0.113
%RSD		125.600	0.914	11.860
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		70.330	0.000	0.000
%RSD		1.441	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.113	0.047	91.713%
%RSD		1.114	11.050	0.888

LV31K 3/1/2010 10:23:32 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		79.377%	-0.002	T 39170.000
%RSD		0.674	53.600	T 0.643
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		51700.000	-4.073	0.000
%RSD		0.299	8.576	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 4042.000	TM 188100.000	T 75.373%
%RSD		T 0.459	TM 0.220	T 0.924
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		75.398%	-0.185	0.070
%RSD		1.486	61.170	31.460
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.482	116.100	T 5932.000
%RSD		14.180	0.192	T 0.306
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.230	1.115	0.283
%RSD		15.970	7.277	24.110
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		2.922	76.226%	15.310
%RSD		6.224	0.608	2.813
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.208	-0.007	29.590
%RSD		35.280	1528.000	2.363
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.001	-1.755
%RSD		0.000	1.732	127.600
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.005	81.140%	0.094
%RSD		5.742	1.469	2.748
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		33.250	0.000	0.000
%RSD		3.654	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.043	0.032	92.020%
%RSD		6.884	7.978	0.487

CCV 2 3/1/2010 10:28:03 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		84.185%	94.416%	T 98.484%
%RSD		1.041	0.261	T 0.656
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		101.664%	102.728%	0.000
%RSD		0.443	2.164	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 103.903%	101.277%	T 74.695%
%RSD		T 0.465	0.264	T 0.710
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		75.897%	97.723%	99.491%
%RSD		1.452	0.925	0.667
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		6.323	102.790%	T 100.298%
%RSD		3.164	1.376	T 0.472
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		100.421%	100.536%	101.919%
%RSD		0.678	1.727	0.220
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		103.833%	73.876%	99.831%
%RSD		2.052	0.943	2.281
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.417	103.437%	101.149%
%RSD		27.410	5.042	0.985
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	101.359%	48.480
%RSD		0.000	0.676	82.760
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		101.391%	79.685%	99.256%
%RSD		0.576	1.173	1.269
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		97.761%	0.000	0.000
%RSD		0.984	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		99.990%	96.835%	93.051%
%RSD		0.232	0.698	0.708

CCB 2 3/1/2010 10:33:18 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.235%	0.016	12.070
%RSD		0.644	48.950	3.899
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		5.940	0.609	0.000
%RSD		83.670	146.500	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		10.010	15.080	T 72.739%
%RSD		5.754	25.710	T 0.818
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		74.079%	0.177	0.031
%RSD		1.654	62.660	127.500
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-1.107	0.157	-9.277
%RSD		1.880	18.460	7.000
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.018	0.030	0.123
%RSD		32.680	67.560	16.590
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.241	73.797%	0.137
%RSD		137.400	0.968	66.140
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.077	0.114	0.072
%RSD		52.130	218.300	21.060
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.021	-0.707
%RSD		0.000	9.822	55.870
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.007	81.908%	0.047
%RSD		87.410	0.828	62.460
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.033	0.000	0.000
%RSD		36.300	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.265	0.028	100.575%
%RSD		10.910	14.860	0.260

STD2/CCV STD 0B97 ICSA STD 0C123 CRI STD 0B98
STD3 STD 0B59 ICSAB STD 0B99 DIL BLK 0MR1Z1
STD4 STD 0B60 ICV STD 0B61
QSMCRI 0A40

Test America North Canton ICP/MS Data Review Checklist

Run/Project Information:

Run Date: 3-17-10 Analyst: KLL Instrument: I8
Prep Batches Run: _____ See Run Log _____

Circle Methods used: 6020/ 200.8: CORP-MT-0001NC

Review Items

A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
2. Performance check within recommended specfications? (Be>8000cps) (In >300,000 cps) (Pb >100,000 cps) (Co>100000cps) (Mg>10000cps) (CeO/Ce ≤ 0.03) (Ba++/Ba+ ≤ 0.03)(Background < 30cps @ Mass 220) CCT Performance Check (In>75000cps) (Se<20 cps)	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? Correlation coefficient ≥ .995 ?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? *(ICV: = 90 – 110%) (CCV: 90 – 110%, 200.8 = 85 -115%)*	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%)?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed ?	✓			✓
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time ?	✓			✓
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits ?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits ?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits ?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			
E. Other				
1. Are all nonconformances documented appropriately ?	✓			✓
2. Current IDL/LR data on file ?	✓			✓
3. Calculations checked for error ?	✓			✓
4. Transcriptions checked for error ?	✓			✓
5. All client/project specific requirements met ?	✓			✓
6. Date/time of analysis verified as correct ?	✓			✓

Level I Analyst: Karen Klouda Date: 3-18-10 Time: 08:18-18:17
Level I Analyst: _____ Date: _____ Time: _____

Level II Reviewer: [signature] Date: 3.18.10 Time: 08:18-18:17
Level II Reviewer: _____ Date: _____ Time: _____

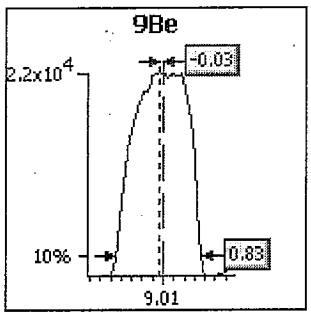
Comments: _____

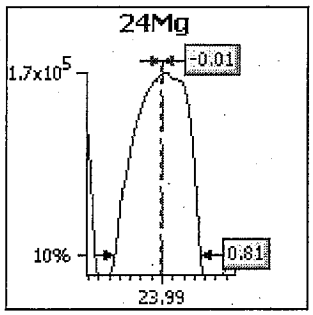
Performance Report

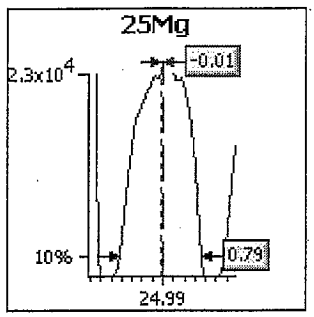
Sample details
Acquired at : 3/17/2010 06:33:49
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

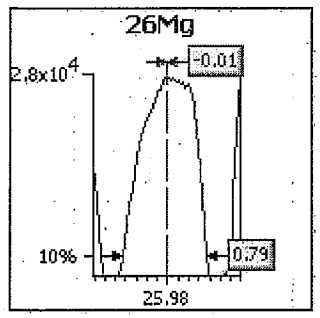
Mass Calibration verification

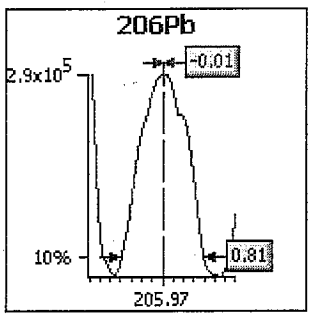
Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 10% of the peak maximum

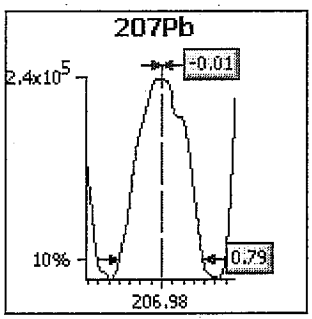


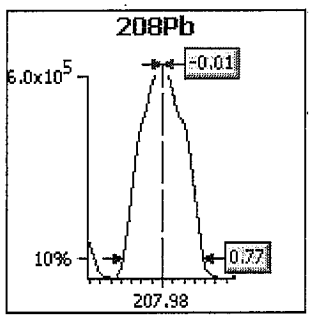












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.83	-0.03
24Mg	0.85	0.65	0.10	0.81	-0.01
25Mg	0.85	0.65	0.10	0.79	-0.01
26Mg	0.85	0.65	0.10	0.79	-0.01
206Pb	0.85	0.65	0.10	0.81	-0.01
207Pb	0.85	0.65	0.10	0.79	-0.01
208Pb	0.85	0.65	0.10	0.77	-0.01

Sample details
Acquired at : 3/17/2010 06:33:49
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Tune conditions

Major	
Extraction	-121.6
Lens 1	-1224
Lens 2	-80.0
Focus	12.5
D1	-46.3
D2	-140
Pole Bias	0.1
Hexapole Bias	-4.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	69
Vertical	362
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1529
PC Detector	3176

Add. Gases	
He_H2	0.00
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	137Ba++	101Bkg	115In
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0	10.0
Limits	%RSD	-	5.0%	-	5.0%	-	5.0%	-	-	5.0%
	Countrate	-	>8000	>10000	>10000	>10000	>100000	-	-	>300000
1	06:34:24	0.000	22241.497	165140.78	23366.368	26768.145	286674.44	1412.282	1.667	792032.68
2	06:34:42	0.000	22555.252	163592.29	22017.867	26504.391	285663.98	1453.397	4.000	787802.43
3	06:35:00	0.000	23049.260	165787.15	22568.603	27075.308	286104.78	1470.065	2.333	792787.32
4	06:35:17	0.000	22211.457	166925.09	22722.145	27666.277	286203.11	1467.842	4.667	788448.60
5	06:35:35	0.000	22458.455	165622.19	22745.510	27005.194	286877.90	1462.286	1.333	791442.27
x		0.000	22503.184	165413.50	22684.099	27003.863	286304.84	1453.174	2.800	790502.66
σ		0.00	337.82	1210.30	481.64	432.70	481.16	23.75	1.46	2233.49
%RSD		0.000	1.501	0.732	2.123	1.602	0.168	1.634	52.300	0.283

Run	Time	137Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	-	-	-	-	-	5.0%	-
	Countrate	-	-	-	>100000	>100000	>100000	<30
1	06:34:24	90950.820	768819.39	19305.619	296402.40	245515.11	610552.06	0.000
2	06:34:42	90779.892	767357.62	17987.479	294597.49	244699.92	607137.32	0.000
3	06:35:00	91668.066	766035.50	17316.769	301699.52	245535.40	610994.51	0.000
4	06:35:17	90042.575	765369.25	18659.328	295343.86	242924.22	606750.27	0.000
5	06:35:35	89811.332	766265.73	18929.633	295343.86	242687.48	608972.49	0.000
x		90650.537	766769.50	18439.766	296677.42	244272.43	608881.33	0.000
σ		744.34	1351.04	791.13	2880.10	1383.10	1926.67	0.00
%RSD		0.821	0.176	4.290	0.971	0.566	0.316	0.000

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0300
1	06:34:24	0.016	0.025
2	06:34:42	0.016	0.023
3	06:35:00	0.016	0.023
4	06:35:17	0.016	0.024
5	06:35:35	0.016	0.025
x		0.0160	0.0240
σ		0.00	0.00
%RSD		1.9468	4.2193

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 3/17/2010 06:38:45
Report name : CCT MODE PERF REPORT [5/14/2008 11:21:44]

Tune conditions

Major	
Extraction	-105.9
Lens 1	-1200
Lens 2	-80.0
Focus	1.8
D1	-51.0
D2	-140
Pole Bias	-14.0
Hexapole Bias	-17.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	62
Vertical	362
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1529
PC Detector	3176

Add. Gases	
He_H2	2.20
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	78Se	115In
	Dwell (mSecs)	500.0	10.0
Limits	%RSD	-	5.0%
	Countrate	<20	>75000
1	06:38:46	10.533	102004.53
2	06:39:04	12.200	102876.53
3	06:39:21	11.333	101810.01
4	06:39:38	10.400	102118.56
5	06:39:56	10.467	101545.07
x		10.987	102070.94
σ		0.78	500.07
%RSD		7.069	0.490

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA NORTH CANTON_QSM 3.0.tet
Created By User	martin.nash
Analyte Database	TA NORTH CANTON MULTIMODE.tea
Creation Timestamp	10/10/2007 09:08:48
Last Edited By	Upload
Last Edit Timestamp	3/17/2010 08:17:25
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

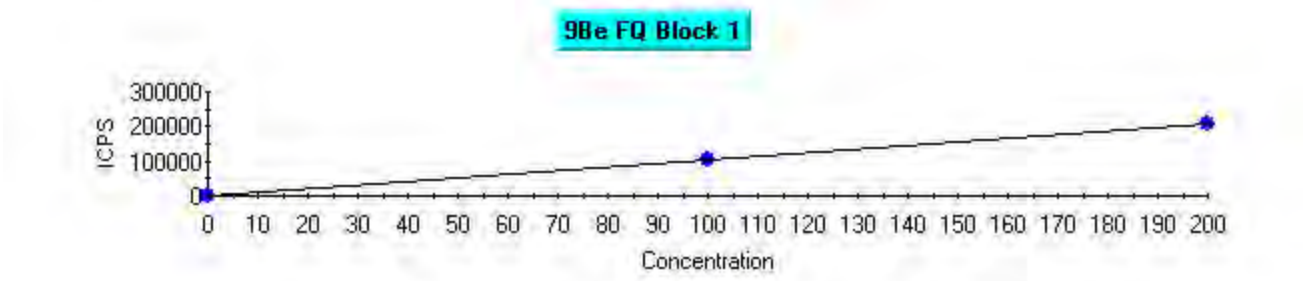
Column headings
- No flag
- Semi Quant
- Standard Addition
- Multi Element

Result cells
- Internal Standard
- Excluded
- QC Warning
- QC Failure

Transient TRA only:
- Peak Not Found
- Manually Edited
- Merged Peak

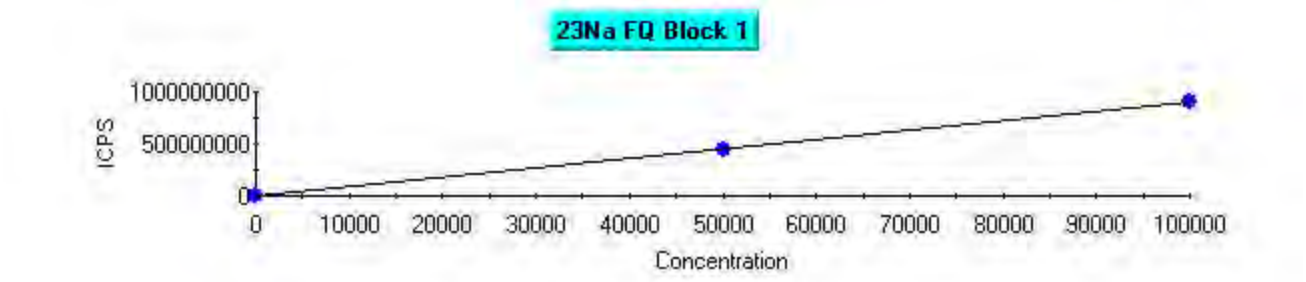
Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Fully Quant Calibration



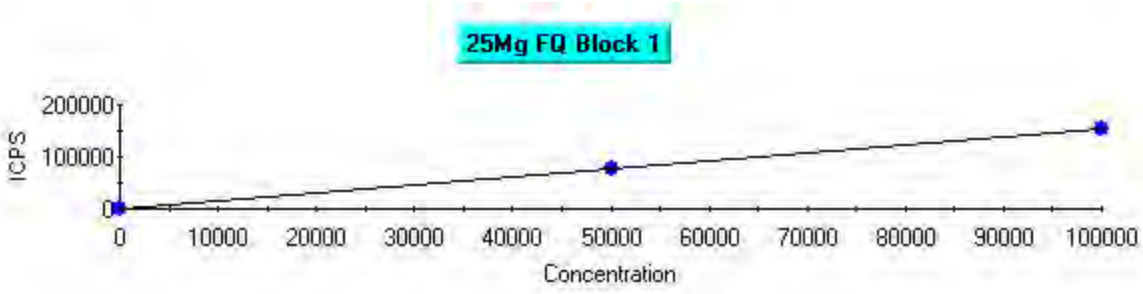
Intercept CPS=26.282399 Intercept Conc=0.024992
Sensitivity=1051.616316 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	26.28	0.00
STD2	100.000	100.699	0.699	105922.91	0.70
STD3	200.000	199.651	0.349	209982.05	0.17



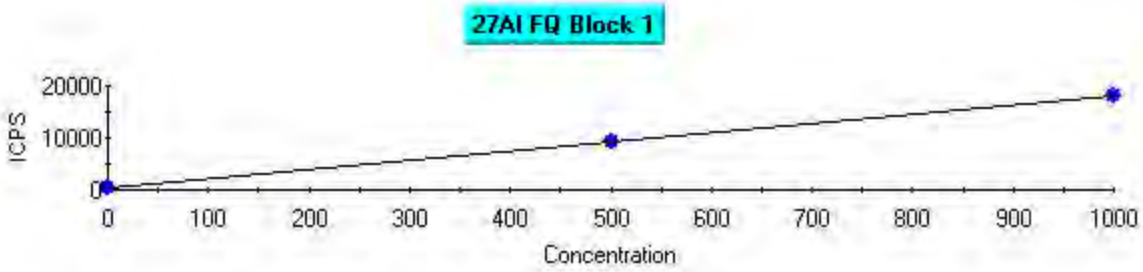
Intercept CPS=185711.011944 Intercept Conc=20.473820
Sensitivity=9070.657732 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	185711.01	0.00
STD2	50000.000	49614.923	385.077	450225694.47	0.77
STD3	100000.000	100192.539	192.539	908997935.84	0.19



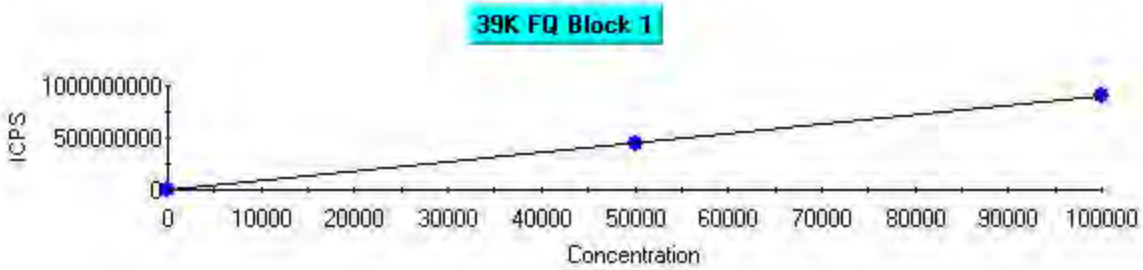
Intercept CPS=7.782916 Intercept Conc=5.029050
Sensitivity=1.547592 Correlation Coeff=0.999977

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	7.78	0.00
STD2	50000.000	50471.643	471.643	78117.28	0.94
STD3	100000.000	99764.179	235.821	154402.01	0.24



Intercept CPS=271.163869 Intercept Conc=15.293653
Sensitivity=17.730484 Correlation Coeff=1.000000

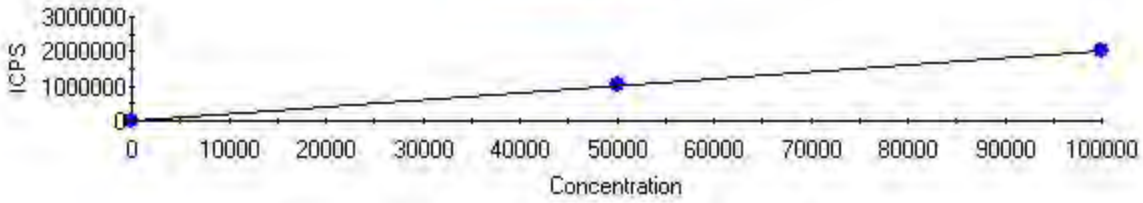
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	271.16	0.00
STD2	500.000	499.907	0.093	9134.75	0.02
STD3	1000.000	1000.047	0.047	18002.48	0.00



Intercept CPS=483995.798671 Intercept Conc=53.645936
Sensitivity=9022.040292 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	483995.80	0.00
STD2	50000.000	49976.245	23.755	451371694.68	0.05
STD3	100000.000	100011.877	11.877	902795182.89	0.01

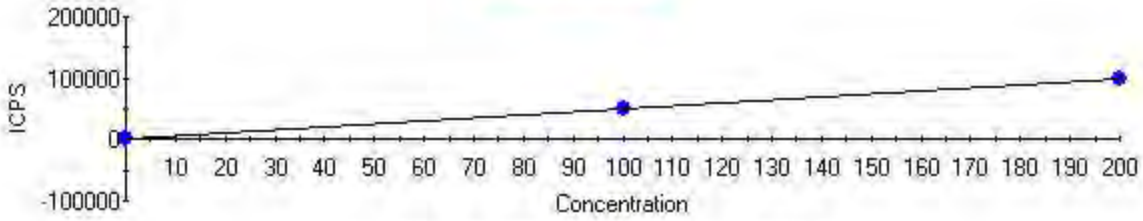
43Ca FQ Block 1



Intercept CPS=2233.212855 Intercept Conc=110.738364
Sensitivity=20.166569 Correlation Coeff=0.999932

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	2233.21	0.00
STD2	50000.000	50802.749	802.749	1026750.36	1.61
STD3	100000.000	99598.625	401.375	2010795.76	0.40

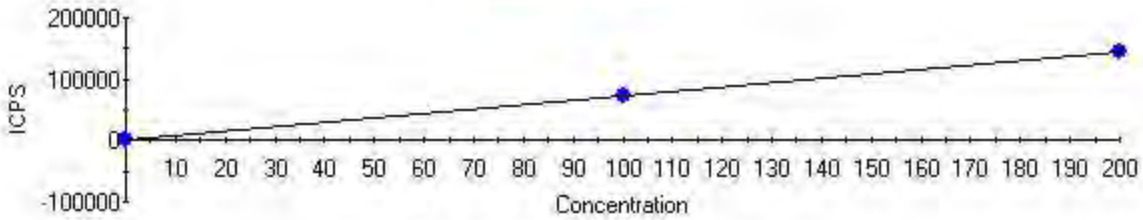
51V FQ Block 1



Intercept CPS=-49.278965 Intercept Conc=-0.098757
Sensitivity=498.993610 Correlation Coeff=0.999948

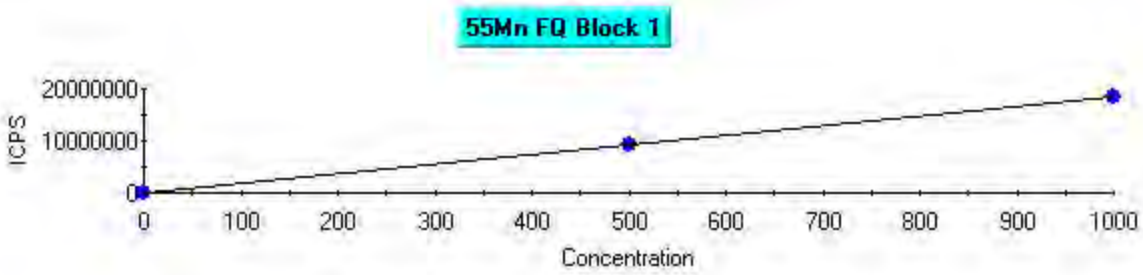
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	-49.28	0.00
STD2	100.000	98.583	1.417	49143.01	1.42
STD3	200.000	200.708	0.708	100102.98	0.35

52Cr FQ Block 1



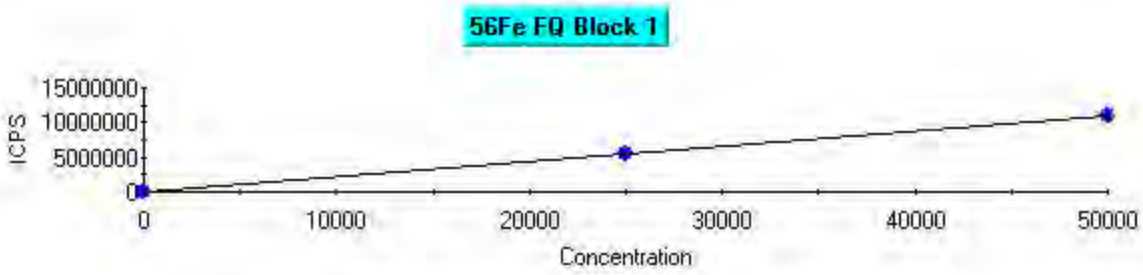
Intercept CPS=-220.932977 Intercept Conc=-0.304182
Sensitivity=726.317772 Correlation Coeff=0.999993

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-220.93	0.00
STD2	100.000	99.484	0.516	72035.96	0.52
STD3	200.000	200.258	0.258	145230.06	0.13



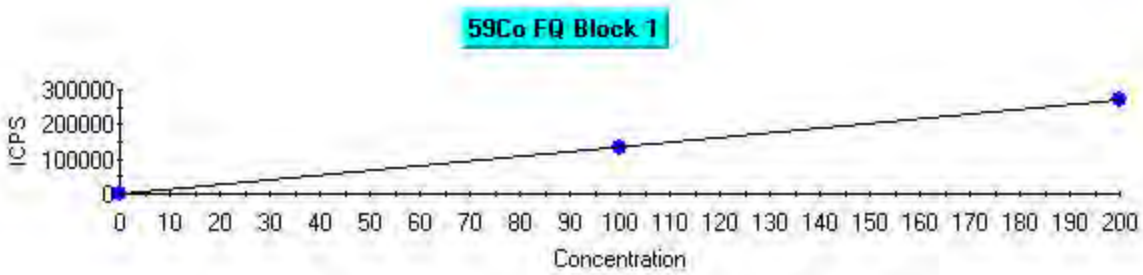
Intercept CPS=2539.812293 Intercept Conc=0.137303
Sensitivity=18497.841415 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	2539.81	0.00
STD2	500.000	496.727	3.273	9190923.83	0.65
STD3	1000.000	1001.636	1.636	18530649.58	0.16



Intercept CPS=1064.302969 Intercept Conc=4.911708
Sensitivity=216.686948 Correlation Coeff=0.999989

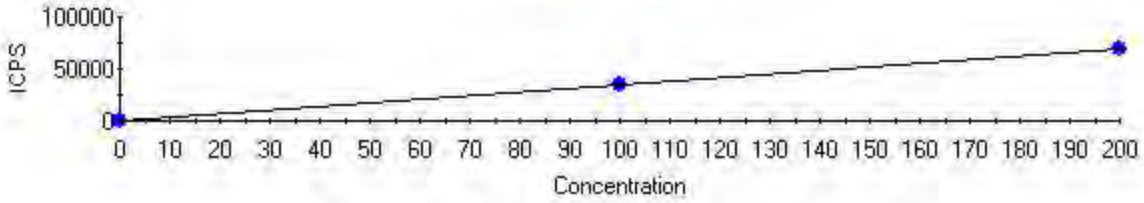
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	1064.30	0.00
STD2	25000.000	24837.856	162.144	5383103.51	0.65
STD3	50000.000	50081.072	81.072	10852978.93	0.16



Intercept CPS=22.268695 Intercept Conc=0.016432
Sensitivity=1355.188211 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	22.27	0.00
STD2	100.000	99.992	0.008	135530.84	0.01
STD3	200.000	200.004	0.004	271065.03	0.00

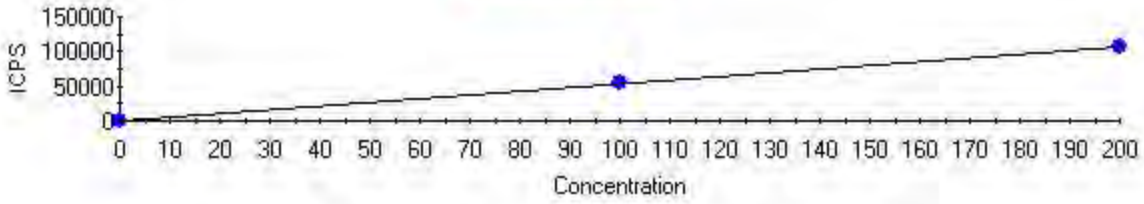
60Ni FQ Block 1



Intercept CPS=34.431746 Intercept Conc=0.100005
Sensitivity=344.299962 Correlation Coeff=0.999950

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	34.43	0.00
STD2	100.000	101.382	1.382	34940.21	1.38
STD3	200.000	199.309	0.691	68656.53	0.35

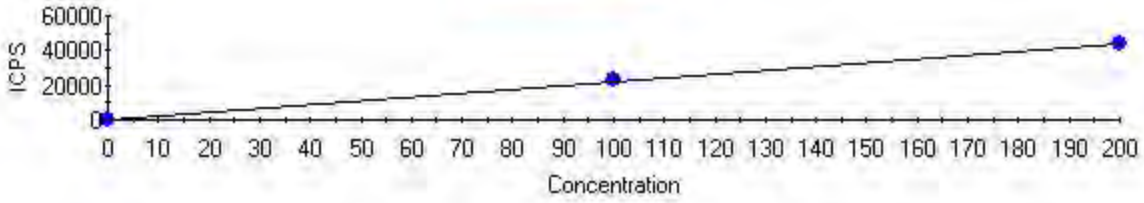
65Cu FQ Block 1



Intercept CPS=106.737824 Intercept Conc=0.201263
Sensitivity=530.339000 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	106.74	0.00
STD2	100.000	100.648	0.648	53484.54	0.65
STD3	200.000	199.676	0.324	106002.59	0.16

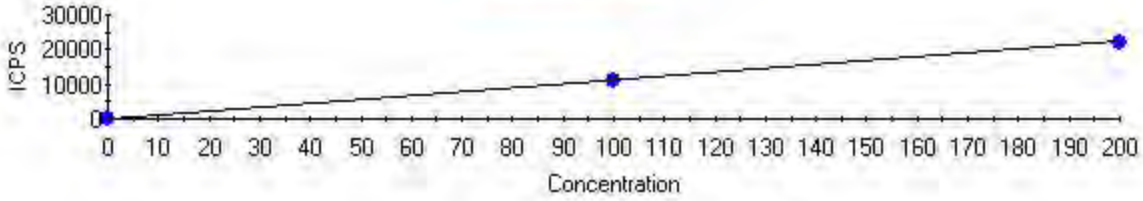
66Zn FQ Block 1



Intercept CPS=367.862687 Intercept Conc=1.698042
Sensitivity=216.639292 Correlation Coeff=0.999738

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	367.86	0.00
STD2	100.000	103.145	3.145	22713.10	3.14
STD3	200.000	198.428	1.572	43355.07	0.79

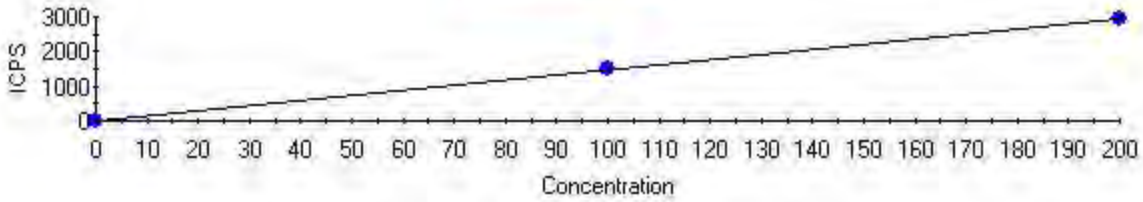
75As FQ Block 1



Intercept CPS=100.667479 Intercept Conc=0.910221
Sensitivity=110.596800 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	100.67	0.00
STD2	100.000	100.364	0.364	11200.64	0.36
STD3	200.000	199.818	0.182	22199.88	0.09

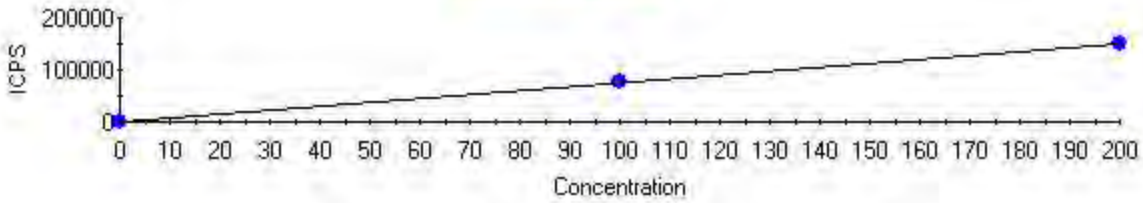
78Se FQ Block 1



Intercept CPS=2.843013 Intercept Conc=0.192540
Sensitivity=14.765805 Correlation Coeff=0.999882

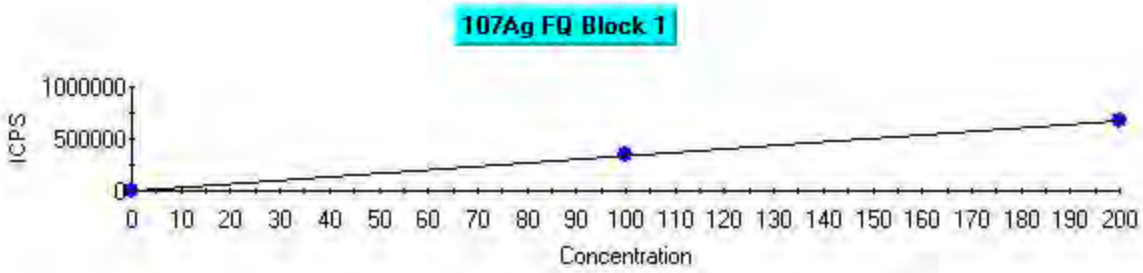
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	2.84	0.00
STD2	100.000	102.114	2.114	1510.65	2.11
STD3	200.000	198.943	1.057	2940.39	0.53

95Mo FQ Block 1



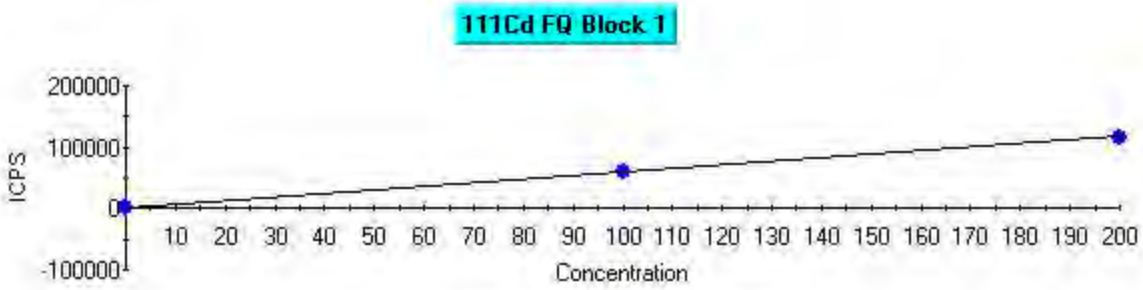
Intercept CPS=94.455212 Intercept Conc=0.125622
Sensitivity=751.901632 Correlation Coeff=0.999724

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	94.46	0.00
STD2	100.000	103.233	3.233	77715.24	3.23
STD4	200.000	198.384	1.616	149259.47	0.81



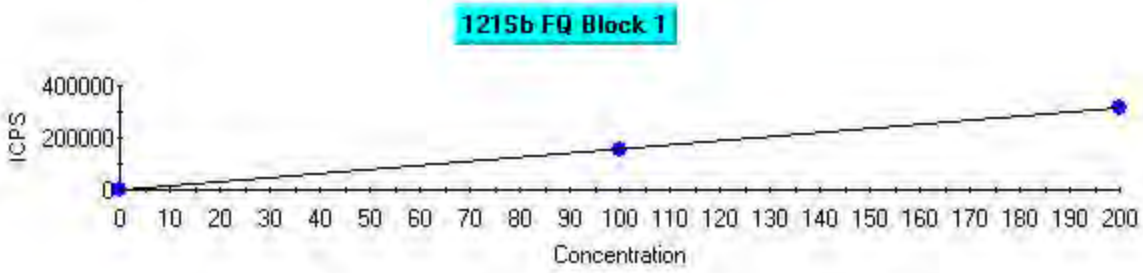
Intercept CPS=26.624705 Intercept Conc=0.007824
Sensitivity=3402.869525 Correlation Coeff=0.999938

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	26.62	0.00
STD2	100.000	101.532	1.532	345526.37	1.53
STD3	200.000	199.234	0.766	677994.13	0.38



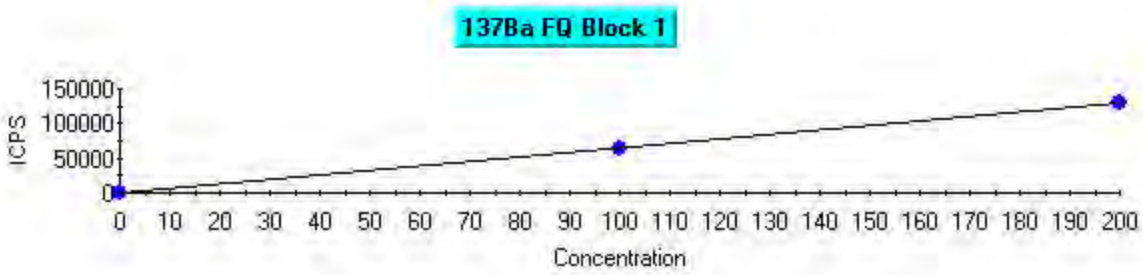
Intercept CPS=8.872447 Intercept Conc=0.015163
Sensitivity=585.143846 Correlation Coeff=0.999915

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	8.87	0.00
STD2	100.000	101.796	1.796	59573.89	1.80
STD3	200.000	199.102	0.898	116512.32	0.45



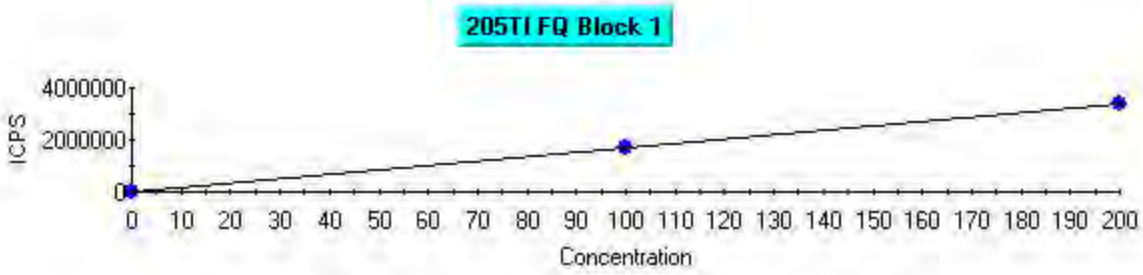
Intercept CPS=36.658048 Intercept Conc=0.023413
Sensitivity=1565.742063 Correlation Coeff=0.999976

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	36.66	0.00
STD2	100.000	99.032	0.968	155095.10	0.97
STD4	200.000	200.484	0.484	313942.95	0.24



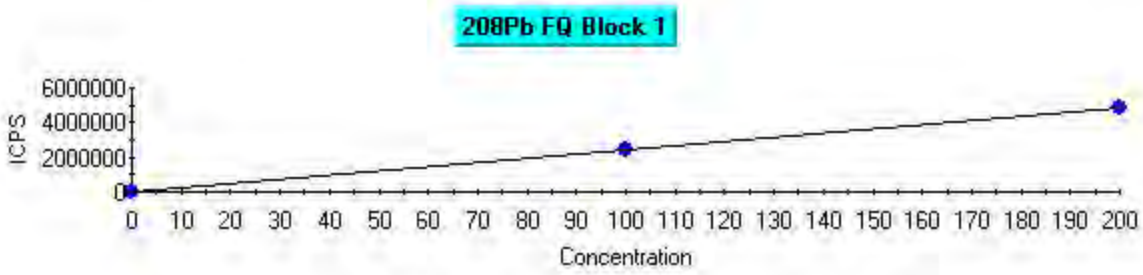
Intercept CPS=60.004141 Intercept Conc=0.093437
Sensitivity=642.190270 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	60.00	0.00
STD2	100.000	99.731	0.269	64106.45	0.27
STD3	200.000	200.134	0.134	128584.35	0.07



Intercept CPS=2241.154612 Intercept Conc=0.133437
Sensitivity=16795.583461 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	2241.15	0.00
STD2	100.000	100.367	0.367	1687956.70	0.37
STD3	200.000	199.817	0.183	3358279.25	0.09



Intercept CPS=1583.389018 Intercept Conc=0.065891
Sensitivity=24030.329572 Correlation Coeff=0.999941

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1583.39	0.00
STD2	100.000	98.484	1.516	2368189.79	1.52
STD3	200.000	200.758	0.758	4825862.58	0.38

Dilution Corrected Concentrations

STD1 3/17/2010 08:18:56

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.000%	-0.000	0.000
%RSD		0.369	0.000	0.000
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		-0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		0.000	-0.000	T 100.000%
%RSD		0.000	0.000	T 1.142
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		100.000%	-0.000	0.000
%RSD		1.201	0.000	0.000
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		-0.000	100.000%	0.000
%RSD		0.000	0.764	0.000
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		-0.000	100.000%	0.000
%RSD		0.000	0.245	0.000
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.000	0.000	100.000%
%RSD		0.000	0.000	0.521

STD2 3/17/2010 08:23:39

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		95.111%	100.700	T 49610.000
%RSD		3.387	2.779	T 1.336
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		50470.000	499.900	0.000
%RSD		1.270	1.499	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 49980.000	50800.000	T 101.589%
%RSD		T 1.500	0.624	T 0.662
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		105.630%	98.580	99.480
%RSD		2.539	0.284	0.912
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.007	T 496.700	T 24840.000
%RSD		2.067	T 0.879	T 0.318
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		99.990	101.400	100.600
%RSD		1.692	0.369	0.371
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.100	101.577%	100.400
%RSD		0.910	1.897	1.636
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.327	102.100	103.200
%RSD		12.070	1.817	0.697
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.500	79.600
%RSD		0.000	0.473	88.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.800	100.365%	99.030
%RSD		1.951	1.255	1.694
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		99.730	0.000	0.000
%RSD		1.000	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		100.400	98.480	93.950%
%RSD		1.493	1.281	0.255

STD3 3/17/2010 08:30:29

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.143%	M 199.700	TM 100200.000
%RSD		2.912	M 2.006	TM 0.345
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		M 99760.000	M 1000.000	0.000
%RSD		M 0.886	M 0.780	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		TM 100000.000	M 99600.000	T 111.028%
%RSD		TM 1.459	M 0.681	T 0.744
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		110.703%	M 200.700	M 200.300
%RSD		0.724	M 0.573	M 0.053
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		10.380	TM 1002.000	TM 50080.000
%RSD		1.151	TM 1.004	TM 1.966
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		M 200.000	M 199.300	M 199.700
%RSD		M 0.499	M 1.166	M 1.173
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 198.400	105.612%	M 199.800
%RSD		M 1.320	1.476	M 0.597
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.628	M 198.900	0.129
%RSD		39.780	M 1.682	44.320
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	199.200	133.600
%RSD		0.000	0.340	69.860
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		M 199.100	103.780%	0.103
%RSD		M 0.863	0.935	27.930
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 200.100	0.000	0.000
%RSD		M 0.417	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		TM 199.800	M 200.800	91.687%
%RSD		TM 1.285	M 0.488	1.243

STD4 3/17/2010 08:37:20

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		106.220%	0.090	48.000
%RSD		2.835	16.190	2.776
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		90.440	-5.346	0.000
%RSD		7.062	34.080	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		43.900	-15.730	T 107.839%
%RSD		2.524	35.190	T 0.746
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		108.253%	0.006	0.189
%RSD		0.807	1448.000	14.780
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		0.101	0.558	47.770
%RSD		108.100	2.461	1.527
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.246	0.374	0.550
%RSD		5.136	42.140	7.901
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		0.350	110.196%	0.199
%RSD		88.770	1.464	31.200
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.015	0.095	198.400
%RSD		228.600	121.300	0.786
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.191	9.118
%RSD		0.000	15.890	18.320
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.161	104.553%	M 200.500
%RSD		7.512	0.316	M 0.847
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.165	0.000	0.000
%RSD		24.030	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.396	0.218	104.525%
%RSD		7.949	1.865	0.280

ICV 3/17/2010 08:44:09 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		99.140%	101.770%	T 102.442%
%RSD		3.558	2.661	T 1.121
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		103.096%	101.565%	0.000
%RSD		2.181	1.771	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 101.489%	104.628%	T 105.058%
%RSD		T 1.143	0.848	T 1.232
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		107.914%	100.870%	103.621%
%RSD		0.501	2.486	0.923
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.229	T 102.714%	T 101.126%
%RSD		25.120	T 0.797	T 1.865
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		103.947%	104.790%	102.984%
%RSD		0.145	0.591	1.539
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.860%	103.203%	101.683%
%RSD		0.882	1.310	1.489
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.183	106.531%	103.864%
%RSD		60.900	1.927	1.112
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	105.884%	83.630
%RSD		0.000	0.824	11.090
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		105.243%	103.041%	103.257%
%RSD		0.543	1.014	1.316
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		101.787%	0.000	0.000
%RSD		1.641	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		103.329%	100.473%	96.549%
%RSD		0.431	0.928	0.866

ICB 3/17/2010 08:51:01 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		106.423%	0.010	1.690
%RSD		2.346	22.610	22.390
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		13.570	1.108	0.000
%RSD		22.900	107.000	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		1.623	2.945	T 106.161%
%RSD		69.280	64.860	T 0.749
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		108.140%	0.030	-0.002
%RSD		1.184	385.300	461.700
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.037	0.027	3.781
%RSD		151.300	19.620	15.420
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.015	0.049	0.028
%RSD		79.300	10.300	53.240
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.108	108.006%	0.020
%RSD		31.630	0.256	475.700
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.041	0.087	0.053
%RSD		30.570	149.400	80.660
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.016	0.627
%RSD		0.000	36.790	146.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.010	104.425%	0.036
%RSD		163.400	0.738	30.110
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.005	0.000	0.000
%RSD		41.160	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.147	0.025	103.636%
%RSD		3.144	15.930	0.980

CRI 3/17/2010 08:57:26 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.615%	101.532%	T 104.244%
%RSD		2.491	1.654	T 1.909
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		106.720%	87.143%	0.000
%RSD		2.848	1.533	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 100.396%	99.960%	T 103.240%
%RSD		T 0.492	1.281	T 0.338
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		104.867%	102.283%	103.315%
%RSD		0.862	3.678	6.702
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.193	104.450%	118.338%
%RSD		16.630	1.901	1.288
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		107.439%	104.701%	101.769%
%RSD		3.374	3.302	7.646
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		119.663%	101.242%	103.045%
%RSD		0.775	1.210	1.999
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.096	101.703%	100.976%
%RSD		19.240	17.150	1.648
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	116.645%	1.801
%RSD		0.000	3.797	123.700
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		111.290%	102.035%	98.590%
%RSD		8.267	0.275	1.308
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.231%	0.000	0.000
%RSD		1.818	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		100.831%	99.277%	101.760%
%RSD		0.541	0.634	0.338

CRIQ 3/17/2010 09:02:21 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.056%	107.321%	T 104.409%
%RSD		0.895	4.630	T 1.523
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		102.807%	84.671%	0.000
%RSD		4.769	1.069	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 100.351%	101.718%	T 103.037%
%RSD		T 1.168	1.896	T 0.393
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		104.105%	100.193%	101.423%
%RSD		0.474	1.641	1.134
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		0.147	101.984%	109.296%
%RSD		153.200	1.176	1.905
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		102.509%	107.069%	112.329%
%RSD		5.621	6.630	0.815
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		103.275%	100.369%	103.913%
%RSD		1.583	1.079	1.587
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.024	95.349%	100.776%
%RSD		82.340	8.174	0.913
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	109.706%	5.060
%RSD		0.000	3.877	98.510
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		103.596%	101.280%	102.087%
%RSD		7.336	1.537	1.458
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		92.713%	0.000	0.000
%RSD		1.068	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		94.936%	96.362%	101.008%
%RSD		1.766	1.387	0.662

ICSA 3/17/2010 09:07:02 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		94.397%	-0.002	T 51150.000
%RSD		1.736	421.800	T 0.367
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		52650.000	M 51580.000	0.000
%RSD		0.749	M 1.000	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 50890.000	53000.000	T 99.517%
%RSD		T 0.541	0.924	T 1.291
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		101.687%	0.043	0.586
%RSD		1.412	141.200	10.640
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.038	0.090	TM 51350.000
%RSD		122.800	12.520	TM 1.386
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.059	0.328	0.021
%RSD		23.830	2.899	149.700
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.620	104.619%	0.113
%RSD		31.330	1.346	68.580
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.012	-0.059	M 1031.000
%RSD		314.300	337.400	M 0.970
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.065	26.680
%RSD		0.000	5.630	27.260
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.009	100.225%	0.122
%RSD		304.900	1.377	5.274
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.052	0.000	0.000
%RSD		28.830	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		-0.012	0.099	94.181%
%RSD		52.430	3.242	1.255

ICSAB 3/17/2010 09:11:41 QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.955%	96.150%	T 104.648%
%RSD		1.310	1.344	T 0.903
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		105.178%	M 102.266%	0.000
%RSD		1.138	M 0.926	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 100.622%	103.257%	T 106.522%
%RSD		T 0.837	0.488	T 0.641
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		104.463%	100.470%	101.051%
%RSD		0.521	0.482	0.793
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.856	T 103.163%	TM 101.102%
%RSD		10.600	T 0.742	TM 0.830
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		97.509%	99.708%	96.765%
%RSD		0.874	1.069	0.887
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		100.881%	106.495%	96.347%
%RSD		1.295	1.436	0.359
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.247	99.255%	M 1131.000
%RSD		44.800	2.194	M 0.269
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	100.602%	79.590
%RSD		0.000	0.448	7.357
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.861%	102.318%	101.186%
%RSD		0.983	1.271	0.380
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.858%	0.000	0.000
%RSD		0.896	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		101.796%	99.062%	97.495%
%RSD		0.774	1.541	0.940

CCV 3/17/2010 09:18:32 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		102.864%	95.599%	T 101.106%
%RSD		1.133	0.507	T 1.695
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		100.905%	100.847%	0.000
%RSD		1.543	2.225	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 98.955%	101.886%	T 106.288%
%RSD		T 0.687	0.879	T 0.868
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		104.926%	98.466%	99.354%
%RSD		1.617	0.877	0.952
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		5.247	T 100.832%	T 98.426%
%RSD		19.160	T 0.222	T 1.821
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		101.031%	101.464%	99.812%
%RSD		0.566	0.579	0.723
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		104.834%	101.178%	98.935%
%RSD		0.468	1.223	0.539
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.275	98.279%	103.871%
%RSD		53.030	1.448	0.493
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	101.586%	102.300
%RSD		0.000	0.935	8.431
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		102.856%	101.542%	99.863%
%RSD		1.226	0.948	1.151
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		97.764%	0.000	0.000
%RSD		1.137	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		101.396%	98.811%	97.373%
%RSD		0.256	1.605	0.459

CCB 3/17/2010 09:25:22 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		103.588%	0.009	2.410
%RSD		0.984	47.350	21.310
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		12.210	1.100	0.000
%RSD		41.470	63.860	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		1.972	0.879	T 100.876%
%RSD		34.370	133.700	T 0.501
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		103.973%	0.080	-0.017
%RSD		0.927	161.900	100.400
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.151	0.038	5.426
%RSD		87.400	17.340	14.660
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.024	0.015	0.016
%RSD		27.100	407.200	433.400
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.277	103.228%	-0.081
%RSD		57.130	1.212	156.600
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.049	0.125	0.181
%RSD		75.380	86.950	13.740
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.019	0.004
%RSD		0.000	34.740	9525.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.007	102.474%	0.031
%RSD		210.000	0.392	55.830
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.031	0.000	0.000
%RSD		66.600	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.172	0.020	105.365%
%RSD		13.460	28.520	1.184

CCV 3/17/2010 10:50:38 QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.790%	101.592%	T 105.724%
%RSD		0.864	1.987	T 1.125
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		101.275%	107.193%	0.000
%RSD		1.198	3.515	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 99.691%	101.043%	T 100.308%
%RSD		T 0.392	0.809	T 0.570
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		96.551%	100.584%	101.030%
%RSD		0.771	0.558	0.182
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		4.994	T 101.149%	T 101.354%
%RSD		13.910	T 0.400	T 1.413
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		101.630%	103.940%	102.127%
%RSD		0.685	1.582	0.608
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		104.102%	94.463%	99.266%
%RSD		2.119	0.500	0.819
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.377	102.016%	104.284%
%RSD		24.390	0.172	1.388
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	102.676%	100.200
%RSD		0.000	0.847	32.930
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		101.607%	95.149%	99.571%
%RSD		0.979	0.624	0.903
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		98.583%	0.000	0.000
%RSD		0.317	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		101.086%	98.490%	91.239%
%RSD		0.517	1.205	0.647

CCB 3/17/2010 10:57:28 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		96.463%	0.034	15.040
%RSD		1.767	26.330	5.755
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		36.580	12.130	0.000
%RSD		35.120	22.080	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		12.190	14.580	T 98.398%
%RSD		4.468	32.290	T 0.836
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		96.712%	-0.227	0.059
%RSD		0.638	57.700	48.640
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.196	0.221	37.780
%RSD		64.620	10.180	13.270
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.074	0.177	0.133
%RSD		55.840	33.750	60.230
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.260	96.876%	0.021
%RSD		156.800	1.995	153.800
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.035	0.033	0.042
%RSD		141.600	298.600	69.500
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.079	1.649
%RSD		0.000	28.520	117.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.091	96.440%	0.086
%RSD		26.680	0.544	28.840
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.111	0.000	0.000
%RSD		23.200	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.163	0.093	100.272%
%RSD		18.710	17.370	0.641

LWJ1C 3/17/2010 11:02:02 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.394%	7.350	T 520.600
%RSD		2.277	2.132	T 1.159
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		45050.000	M 123400.000	0.000
%RSD		0.772	M 0.392	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 13350.000	47180.000	T 114.229%
%RSD		T 1.182	0.638	T 1.113
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		109.208%	M 209.700	181.600
%RSD		0.420	M 1.000	0.429
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		9.577	TM 2678.000	TM 264600.000
%RSD		7.055	TM 0.634	TM 1.405
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		103.700	M 273.000	186.400
%RSD		0.342	M 0.455	0.460
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 508.000	104.125%	114.600
%RSD		M 0.699	1.110	0.456
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.670	11.110	13.980
%RSD		18.030	5.649	3.272
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.164	-35.390
%RSD		0.000	14.820	7.776
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.476	99.788%	0.788
%RSD		13.380	1.228	3.827
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 730.800	0.000	0.000
%RSD		M 0.400	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.730	110.200	97.537%
%RSD		0.295	0.735	1.008

LWJ1K 3/17/2010 11:06:41 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.487%	5.114	T 692.800
%RSD		1.903	0.934	T 0.534
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		57850.000	M 91320.000	0.000
%RSD		0.977	M 0.215	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 12650.000	TM 311500.000	T 101.447%
%RSD		T 0.816	TM 0.764	T 0.525
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.452%	170.800	157.400
%RSD		0.449	0.745	0.349
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		8.127	TM 3416.000	TM 230400.000
%RSD		8.532	TM 0.447	TM 1.310
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		101.300	M 236.000	177.400
%RSD		0.578	M 0.481	0.360
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 464.000	89.351%	104.000
%RSD		M 0.872	1.439	1.332
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.518	8.208	17.150
%RSD		16.680	3.806	2.503
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.153	-24.690
%RSD		0.000	5.983	9.222
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.501	91.135%	0.729
%RSD		8.746	0.855	2.834
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 659.700	0.000	0.000
%RSD		M 0.567	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.606	106.800	88.877%
%RSD		2.197	0.775	0.863

LWJ1L 3/17/2010 11:11:21 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		99.102%	3.777	T 1351.000
%RSD		3.541	2.603	T 1.162
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		22160.000	M 86560.000	0.000
%RSD		1.410	M 0.575	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 6374.000	6651.000	T 119.982%
%RSD		T 1.149	1.312	T 0.841
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		101.112%	169.900	124.600
%RSD		1.194	0.665	0.685
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		6.378	TM 2919.000	TM 207800.000
%RSD		11.640	TM 1.207	TM 1.303
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		70.440	164.600	176.400
%RSD		0.780	1.050	0.256
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 459.000	97.031%	147.200
%RSD		M 0.521	1.309	0.782
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.672	10.300	9.746
%RSD		37.380	2.568	0.541
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.244	-34.700
%RSD		0.000	6.076	31.280
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.338	94.552%	0.945
%RSD		6.845	0.654	3.453
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 598.600	0.000	0.000
%RSD		M 0.518	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.281	120.600	95.621%
%RSD		1.815	1.269	0.652

LWJ1M 3/17/2010 11:16:00 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		95.262%	1.729	205.000
%RSD		1.991	6.299	2.789
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		9950.000	M 29690.000	0.000
%RSD		3.480	M 0.719	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 5872.000	2693.000	T 95.621%
%RSD		T 1.332	1.104	T 0.558
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.868%	49.800	47.540
%RSD		0.565	1.565	0.157
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.533	T 888.000	TM 69260.000
%RSD		14.170	T 1.123	TM 0.674
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		55.960	57.080	47.550
%RSD		1.650	1.664	0.535
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		191.700	92.263%	27.190
%RSD		0.250	0.734	0.988
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.537	7.943	4.403
%RSD		0.622	7.114	4.232
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.118	-27.720
%RSD		0.000	9.568	19.470
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.477	90.273%	0.385
%RSD		3.500	0.551	8.141
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		144.500	0.000	0.000
%RSD		0.539	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.647	63.130	92.710%
%RSD		2.346	1.236	0.528

LWJ1N 3/17/2010 11:20:38 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.313%	3.535	258.700
%RSD		0.384	5.423	0.409
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		9065.000	M 39820.000	0.000
%RSD		3.907	M 0.824	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 4475.000	21100.000	T 89.672%
%RSD		T 0.265	1.410	T 0.423
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		83.471%	85.040	88.380
%RSD		0.284	0.991	0.902
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.315	TM 2271.000	TM 259800.000
%RSD		6.752	TM 0.049	TM 1.888
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		43.090	101.800	108.300
%RSD		1.506	1.920	0.852
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 455.900	81.721%	86.660
%RSD		M 0.560	1.334	1.447
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.445	7.452	9.217
%RSD		40.360	3.628	0.062
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.094	-19.550
%RSD		0.000	12.330	24.810
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.502	83.131%	0.977
%RSD		6.172	0.742	2.413
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 206.100	0.000	0.000
%RSD		M 1.420	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.652	87.950	84.721%
%RSD		1.067	0.873	0.772

LV63KB 3/17/2010 11:25:20 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.131%	-0.010	55.090
%RSD		2.500	26.940	0.197
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		25.310	35.290	0.000
%RSD		30.780	18.150	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		10.760	68.250	T 83.738%
%RSD		14.810	2.579	T 0.192
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		82.953%	0.049	0.942
%RSD		0.855	608.100	7.555
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.414	0.693	214.000
%RSD		70.110	3.279	6.016
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.047	0.398	0.444
%RSD		33.550	35.830	3.791
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		12.170	84.075%	-0.005
%RSD		0.040	0.365	1792.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.137	0.076	-0.050
%RSD		17.530	204.500	23.230
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.000	0.234
%RSD		0.000	2408.000	0.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.006	84.367%	0.005
%RSD		67.120	2.062	150.200
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.870	0.000	0.000
%RSD		0.705	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		-0.040	0.124	90.428%
%RSD		7.703	4.749	0.573

LV63KC 3/17/2010 12:14:33 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.691%	90.560	T 10230.000
%RSD		2.837	2.365	T 0.869
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		9756.000	M 9721.000	0.000
%RSD		2.214	M 1.047	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9624.000	10550.000	T 87.635%
%RSD		T 0.414	0.760	T 0.884
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.275%	93.600	95.950
%RSD		0.404	1.104	1.023
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.678	101.200	9783.000
%RSD		32.170	0.350	1.899
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		97.260	98.110	97.130
%RSD		1.081	1.073	0.754
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.000	86.298%	86.970
%RSD		1.535	1.815	0.885
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.087	87.510	95.170
%RSD		108.400	1.987	0.804
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	97.410	41.520
%RSD		0.000	0.701	71.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		94.050	89.244%	92.840
%RSD		1.478	0.436	0.671
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		93.880	0.000	0.000
%RSD		1.741	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		97.600	92.770	89.531%
%RSD		0.845	1.425	0.605

LV3LM 3/17/2010 12:21:25 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.760%	8.268	T 904.800
%RSD		1.684	1.494	T 1.419
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		32440.000	M 126600.000	0.000
%RSD		1.302	M 1.727	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 11130.000	75340.000	T 99.925%
%RSD		T 0.324	1.107	T 0.135
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		93.876%	M 204.400	M 639.900
%RSD		0.963	M 1.211	M 0.841
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		32.300	TM 6296.000	TM 285100.000
%RSD		4.220	TM 0.536	TM 1.430
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		84.520	M 365.100	178.600
%RSD		1.048	M 0.911	0.416
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 656.900	89.952%	96.500
%RSD		M 0.492	0.575	1.317
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.508	10.430	20.290
%RSD		18.690	5.424	3.029
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.466	-25.260
%RSD		0.000	7.764	35.440
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		2.219	89.841%	1.649
%RSD		7.587	1.292	5.066
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 700.100	0.000	0.000
%RSD		M 0.176	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.834	174.200	88.729%
%RSD		2.328	1.106	1.583

LV3LML 3/17/2010 12:26:08 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		96.220%	1.676	206.300
%RSD		1.992	2.142	2.900
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		7245.000	M 28010.000	0.000
%RSD		2.692	M 1.582	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2315.000	15890.000	T 99.980%
%RSD		T 0.310	0.786	T 0.417
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.232%	42.990	135.000
%RSD		2.119	2.213	0.954
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		6.659	TM 1305.000	TM 60520.000
%RSD		24.880	TM 0.220	TM 2.234
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		17.850	79.400	39.080
%RSD		0.247	1.497	3.485
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		145.200	93.810%	20.950
%RSD		1.640	0.718	1.072
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.094	2.639	3.788
%RSD		31.710	20.810	1.289
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.099	-6.515
%RSD		0.000	9.346	35.550
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.511	93.280%	0.350
%RSD		23.860	0.253	6.956
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		141.300	0.000	0.000
%RSD		0.192	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.313	35.820	94.237%
%RSD		2.805	1.076	1.014

LV3LMS/10 3/17/2010 12:30:47 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		99.414%	9.892	T 1073.000
%RSD		2.252	1.684	T 1.981
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		4469.000	M 15300.000	0.000
%RSD		1.667	M 0.483	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1957.000	6635.000	T 99.684%
%RSD		T 1.259	0.964	T 0.681
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.970%	30.920	69.700
%RSD		0.563	2.258	0.336
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.783	T 544.400	T 26710.000
%RSD		23.060	T 0.329	T 1.115
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		17.560	47.700	27.700
%RSD		1.776	1.679	2.381
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		82.040	94.611%	18.670
%RSD		2.684	0.486	0.071
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.032	9.128	10.380
%RSD		90.350	5.199	1.557
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	9.816	-1.595
%RSD		0.000	1.535	912.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		9.834	93.878%	2.757
%RSD		0.630	0.889	1.997
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		78.450	0.000	0.000
%RSD		0.621	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		8.725	26.600	95.293%
%RSD		1.167	0.287	0.975

CCV 2 3/17/2010 12:36:07 QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.921%	97.617%	T 102.544%
%RSD		2.155	2.409	T 1.059
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		98.807%	99.272%	0.000
%RSD		0.224	1.299	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 98.537%	99.673%	T 91.284%
%RSD		T 0.764	0.377	T 0.807
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.753%	99.239%	99.582%
%RSD		0.924	0.265	0.192
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.516	T 99.276%	T 98.243%
%RSD		14.320	T 0.764	T 1.696
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.643%	99.920%	100.730%
%RSD		0.395	1.418	0.565
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.516%	85.684%	99.602%
%RSD		0.467	1.137	1.413
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.338	101.060%	103.575%
%RSD		48.290	1.963	1.096
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.847%	59.930
%RSD		0.000	0.608	57.480
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.490%	87.465%	99.380%
%RSD		0.587	1.040	0.869
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.779%	0.000	0.000
%RSD		0.980	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		101.551%	97.791%	86.973%
%RSD		0.487	1.106	1.000

CCB 2 3/17/2010 12:42:59 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.964%	0.006	5.413
%RSD		2.462	120.600	9.487
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		16.540	5.186	0.000
%RSD		52.690	94.150	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		2.758	3.348	T 90.047%
%RSD		33.330	65.470	T 0.251
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		89.959%	0.060	0.021
%RSD		0.415	49.290	110.500
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.268	0.106	17.370
%RSD		11.350	15.190	29.670
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.040	0.054	0.062
%RSD		19.420	29.990	67.220
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.149	90.724%	-0.081
%RSD		107.600	0.788	116.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.006	-0.058	0.020
%RSD		705.400	124.100	65.360
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.030	0.329
%RSD		0.000	23.640	50.020
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.010	91.722%	0.039
%RSD		64.830	0.447	57.560
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.017	0.000	0.000
%RSD		101.100	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.109	0.023	96.486%
%RSD		19.830	36.610	1.206

LV3LMD/10 3/17/2010 12:47:36 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.764%	9.683	T 959.200
%RSD		1.088	0.995	T 1.669
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		4229.000	M 14560.000	0.000
%RSD		1.860	M 0.582	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1922.000	6189.000	T 86.553%
%RSD		T 1.237	1.281	T 0.663
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		90.052%	28.680	69.000
%RSD		1.099	2.461	0.530
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.657	T 549.300	T 25470.000
%RSD		6.734	T 0.489	T 2.242
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		17.220	46.090	26.760
%RSD		0.367	0.868	3.771
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		80.990	91.105%	18.300
%RSD		1.404	1.794	0.720
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.091	9.227	9.902
%RSD		33.170	4.339	4.126
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	9.447	3.617
%RSD		0.000	1.469	185.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		9.454	92.039%	2.709
%RSD		1.218	1.803	2.633
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		72.690	0.000	0.000
%RSD		1.511	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		8.530	26.170	95.935%
%RSD		0.385	0.921	0.385

LV3LMA 3/17/2010 12:53:38 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		79.015%	115.700	T 11520.000
%RSD		2.152	2.473	T 3.157
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		42630.000	M 133600.000	0.000
%RSD		1.500	M 1.177	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 20970.000	83820.000	T 98.659%
%RSD		T 2.128	0.992	T 0.909
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		92.657%	M 302.200	M 726.400
%RSD		1.930	M 0.945	M 0.576
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		37.880	TM 6233.000	TM 295500.000
%RSD		5.857	TM 0.881	TM 1.056
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		185.500	M 458.100	M 273.100
%RSD		0.419	M 1.064	M 1.513
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 732.900	90.858%	193.300
%RSD		M 0.326	1.175	1.736
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.179	106.600	128.600
%RSD		83.400	0.898	1.829
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	104.900	23.420
%RSD		0.000	0.882	195.200
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		105.700	90.033%	105.900
%RSD		2.246	0.261	1.963
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 790.700	0.000	0.000
%RSD		M 1.936	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		106.200	M 268.700	88.329%
%RSD		0.159	M 0.643	0.781

LV3KM 3/17/2010 13:00:34 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		84.397%	1.325	313.700
%RSD		2.378	1.246	3.704
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		40810.000	M 22350.000	0.000
%RSD		1.687	M 1.337	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2578.000	M 157000.000	T 92.283%
%RSD		T 1.311	M 1.044	T 0.191
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.327%	50.560	45.630
%RSD		2.405	1.753	1.690
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.150	TM 2166.000	TM 110300.000
%RSD		29.100	TM 1.058	TM 1.275
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		33.800	75.040	118.900
%RSD		1.384	0.570	1.911
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 440.100	85.713%	65.950
%RSD		M 1.259	2.685	2.311
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.314	4.564	6.308
%RSD		24.420	4.765	4.503
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.190	-6.240
%RSD		0.000	3.652	28.250
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.848	89.289%	1.114
%RSD		7.151	1.221	5.021
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		147.100	0.000	0.000
%RSD		1.362	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.607	69.070	88.629%
%RSD		4.503	0.832	1.104

LV3KN 3/17/2010 13:05:17 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.508%	1.388	339.300
%RSD		4.331	4.921	2.574
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		23410.000	M 21860.000	0.000
%RSD		0.916	M 1.028	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2782.000	TM 238000.000	T 92.861%
%RSD		T 0.710	TM 0.277	T 0.517
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		90.450%	50.300	43.960
%RSD		1.610	1.125	0.426
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.783	TM 2605.000	TM 109000.000
%RSD		23.250	TM 0.704	TM 0.743
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		28.410	77.640	101.400
%RSD		0.800	2.033	1.326
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 397.200	90.145%	71.960
%RSD		M 1.688	1.067	0.850
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.351	4.329	7.089
%RSD		9.330	12.670	2.253
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.253	-1.814
%RSD		0.000	8.314	130.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.736	92.711%	0.915
%RSD		3.262	2.044	10.940
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		138.700	0.000	0.000
%RSD		0.966	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.673	68.680	90.551%
%RSD		2.087	1.331	0.775

LV3KP 3/17/2010 13:09:57 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.498%	1.409	T 462.600
%RSD		1.406	1.629	T 0.193
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		25280.000	M 19430.000	0.000
%RSD		0.595	M 0.256	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2718.000	TM 493300.000	T 101.161%
%RSD		T 0.214	TM 0.208	T 0.657
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.173%	43.080	34.230
%RSD		1.163	1.906	0.649
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.296	TM 3971.000	TM 113300.000
%RSD		30.220	TM 0.683	TM 1.232
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		27.790	70.620	91.290
%RSD		2.616	1.607	1.725
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 303.900	91.250%	63.980
%RSD		M 0.310	0.505	1.649
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.413	6.567	4.853
%RSD		26.300	15.600	1.263
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.158	-12.630
%RSD		0.000	3.927	45.850
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.596	94.641%	0.802
%RSD		6.264	0.867	3.427
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		122.400	0.000	0.000
%RSD		1.579	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.450	59.370	85.462%
%RSD		7.016	0.653	1.037

LV3KQ 3/17/2010 13:14:35 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.867%	1.204	281.100
%RSD		2.672	3.573	2.954
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		25260.000	M 23310.000	0.000
%RSD		2.275	M 1.119	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2935.000	M 140300.000	T 98.541%
%RSD		T 1.289	M 0.809	T 0.327
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.705%	44.080	43.550
%RSD		0.959	1.084	0.696
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.082	TM 2188.000	TM 106400.000
%RSD		18.480	TM 0.304	TM 2.499
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		29.770	75.710	118.500
%RSD		2.319	0.597	2.338
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 337.200	92.964%	51.650
%RSD		M 1.086	0.753	1.123
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.263	6.575	4.479
%RSD		18.950	3.005	3.491
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.120	-5.379
%RSD		0.000	16.830	197.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.615	95.977%	0.896
%RSD		4.614	0.501	4.182
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		118.800	0.000	0.000
%RSD		0.346	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.435	71.320	92.908%
%RSD		3.281	0.928	0.246

LV3KR 3/17/2010 13:19:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		84.679%	1.292	T 380.800
%RSD		1.527	1.522	T 1.920
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		28630.000	M 22170.000	0.000
%RSD		1.189	M 1.809	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 3196.000	TM 243500.000	T 101.496%
%RSD		T 0.533	TM 1.272	T 0.241
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		95.169%	47.650	40.200
%RSD		2.030	2.343	1.788
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.642	TM 2188.000	TM 121000.000
%RSD		3.775	TM 0.799	TM 0.252
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		28.860	80.620	107.000
%RSD		1.553	2.863	1.933
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 431.200	92.245%	60.220
%RSD		M 1.740	1.850	1.339
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.387	5.471	6.366
%RSD		9.320	1.518	1.526
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.165	-6.895
%RSD		0.000	5.343	89.410
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.600	95.615%	1.089
%RSD		2.610	0.875	2.649
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		154.900	0.000	0.000
%RSD		0.503	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.400	51.880	89.852%
%RSD		2.836	1.175	0.839

LV3KT 3/17/2010 13:23:50 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.841%	5.058	T 344.900
%RSD		0.914	1.222	T 2.461
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		30000.000	M 124300.000	0.000
%RSD		1.437	M 1.570	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 11440.000	17910.000	T 114.123%
%RSD		T 0.561	1.154	T 1.522
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		105.604%	191.100	164.800
%RSD		1.671	1.848	1.880
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.456	TM 1607.000	TM 238000.000
%RSD		5.967	TM 1.099	TM 1.755
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		69.310	197.800	164.800
%RSD		0.314	0.604	0.816
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 479.300	105.074%	100.100
%RSD		M 0.488	0.545	0.852
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.485	6.804	9.819
%RSD		2.603	7.195	3.001
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.164	-27.900
%RSD		0.000	5.377	28.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.328	101.549%	0.849
%RSD		18.850	1.286	1.357
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 387.300	0.000	0.000
%RSD		M 0.693	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.301	105.100	97.998%
%RSD		2.079	0.881	0.466

LV3KW 3/17/2010 13:28:31 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		78.714%	6.696	T 796.900
%RSD		1.898	4.294	T 2.203
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		63560.000	M 117400.000	0.000
%RSD		0.288	M 1.021	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 20370.000	TM 214500.000	T 101.130%
%RSD		T 1.618	TM 1.376	T 0.763
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		96.185%	M 208.200	183.700
%RSD		1.071	M 0.719	0.671
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		8.005	TM 3608.000	TM 236100.000
%RSD		27.870	TM 0.239	TM 0.881
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		114.400	M 268.300	166.200
%RSD		1.370	M 0.738	1.640
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 499.100	93.069%	88.290
%RSD		M 1.770	2.489	1.713
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.581	8.326	11.170
%RSD		8.033	5.671	2.571
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.164	-53.930
%RSD		0.000	5.259	22.170
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.676	93.769%	0.697
%RSD		5.439	1.008	6.858
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 793.800	0.000	0.000
%RSD		M 1.030	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.673	98.340	91.676%
%RSD		0.496	1.133	0.790

LV3KX 3/17/2010 13:33:17 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.891%	2.105	T 532.200
%RSD		1.553	5.360	T 0.445
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		31790.000	M 37750.000	0.000
%RSD		0.947	M 0.280	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 7175.000	M 111900.000	T 101.167%
%RSD		T 0.416	M 0.275	T 0.399
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.651%	82.390	62.470
%RSD		0.391	0.747	0.375
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.987	TM 2135.000	TM 124700.000
%RSD		35.940	TM 0.813	TM 2.258
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		42.900	105.000	139.600
%RSD		1.775	0.949	1.241
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 450.900	94.553%	85.290
%RSD		M 0.923	0.524	0.131
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.480	5.809	11.570
%RSD		31.610	11.980	3.759
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.166	-9.127
%RSD		0.000	9.121	71.730
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.691	94.975%	0.660
%RSD		13.780	0.773	6.550
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 225.700	0.000	0.000
%RSD		M 0.184	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.771	74.250	94.813%
%RSD		2.211	0.174	1.279

CCV 3 3/17/2010 13:37:56 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.485%	96.953%	T 101.971%
%RSD		1.055	0.675	T 1.080
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		98.392%	110.824%	0.000
%RSD		0.313	1.974	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 98.147%	99.160%	T 95.796%
%RSD		T 0.545	0.924	T 0.773
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.677%	99.991%	100.341%
%RSD		0.201	0.272	1.055
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.904	T 99.968%	T 100.177%
%RSD		19.400	T 0.897	T 1.302
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.655%	100.563%	101.983%
%RSD		0.521	0.730	0.583
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.428%	90.039%	99.310%
%RSD		0.730	1.228	2.165
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.413	100.467%	104.040%
%RSD		14.260	1.360	0.539
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	102.434%	99.340
%RSD		0.000	0.763	32.690
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.384%	92.230%	98.064%
%RSD		0.963	1.284	1.118
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.494%	0.000	0.000
%RSD		1.820	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.791%	97.442%	91.119%
%RSD		0.382	1.163	0.364

CCB 3 3/17/2010 13:44:48 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.251%	0.017	10.640
%RSD		2.207	35.870	4.147
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		40.430	20.500	0.000
%RSD		17.630	12.220	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		9.680	15.600	T 91.994%
%RSD		5.055	13.250	T 0.386
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.518%	0.061	0.055
%RSD		1.216	96.280	31.380
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.064	0.299	71.710
%RSD		64.660	4.833	4.847
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.078	0.111	0.120
%RSD		18.060	25.240	29.470
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.183	92.059%	0.044
%RSD		83.390	1.175	81.670
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.002	-0.021	0.047
%RSD		812.400	863.400	43.680
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.049	-0.926
%RSD		0.000	14.440	121.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.066	94.312%	0.079
%RSD		45.920	0.534	35.820
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.212	0.000	0.000
%RSD		24.770	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.102	0.075	97.480%
%RSD		13.630	4.070	0.508

LV3K3 3/17/2010 13:49:30 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.383%	6.044	T 555.500
%RSD		2.469	1.953	T 1.198
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		38200.000	M 103100.000	0.000
%RSD		0.385	M 0.074	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 12830.000	14920.000	T 106.680%
%RSD		T 0.287	0.457	T 1.466
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		96.765%	169.600	152.400
%RSD		0.853	0.650	0.378
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		8.191	TM 3569.000	TM 239400.000
%RSD		13.310	TM 0.248	TM 1.629
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		112.900	M 323.600	193.300
%RSD		0.548	M 0.835	0.744
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 576.500	93.680%	111.100
%RSD		M 0.363	0.334	0.854
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.599	8.900	11.410
%RSD		6.107	1.582	2.406
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.113	-38.400
%RSD		0.000	5.431	26.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.709	92.705%	0.862
%RSD		0.308	0.401	7.663
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 870.100	0.000	0.000
%RSD		M 0.497	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.480	109.200	94.923%
%RSD		2.173	0.960	0.273

LV3K7 3/17/2010 13:54:24 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.111%	4.044	261.700
%RSD		3.064	5.263	1.518
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		16260.000	M 94770.000	0.000
%RSD		1.088	M 0.770	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 6303.000	6810.000	T 98.769%
%RSD		T 0.831	0.197	T 0.559
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		92.250%	193.900	119.500
%RSD		0.151	0.747	0.300
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.869	TM 8327.000	TM 183300.000
%RSD		14.180	TM 0.815	TM 1.559
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		85.070	88.650	59.940
%RSD		0.408	0.932	1.639
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 404.700	91.586%	81.950
%RSD		M 1.260	0.128	0.641
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.448	7.620	12.830
%RSD		11.160	11.960	3.151
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.281	4.478
%RSD		0.000	8.001	148.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.860	90.514%	0.909
%RSD		17.350	0.795	1.082
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 460.900	0.000	0.000
%RSD		M 1.356	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.171	139.500	93.314%
%RSD		1.397	1.318	0.090

LV3K8 3/17/2010 13:59:03 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.509%	4.676	T 357.200
%RSD		2.335	2.266	T 6.071
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		30760.000	M 119600.000	0.000
%RSD		1.103	M 1.212	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 8716.000	10070.000	T 100.253%
%RSD		T 1.539	0.643	T 0.413
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.832%	187.000	164.100
%RSD		1.145	0.823	0.756
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		10.020	TM 1309.000	TM 233300.000
%RSD		5.481	TM 0.801	TM 0.417
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		71.760	197.900	157.200
%RSD		1.037	0.524	1.569
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 411.900	88.821%	95.970
%RSD		M 1.403	1.678	1.052
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.418	7.162	11.710
%RSD		16.950	5.301	1.767
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.164	-49.160
%RSD		0.000	1.303	11.840
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.328	89.049%	0.705
%RSD		21.560	1.143	6.300
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 632.400	0.000	0.000
%RSD		M 0.804	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.443	100.400	91.690%
%RSD		2.717	0.788	0.631

LV3K9 3/17/2010 14:03:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.891%	7.604	T 758.100
%RSD		1.830	0.995	T 2.380
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		27400.000	M 96980.000	0.000
%RSD		1.707	M 0.707	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 7527.000	66060.000	T 98.047%
%RSD		T 1.100	0.804	T 1.489
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.276%	165.300	M 845.800
%RSD		0.076	1.215	M 0.285
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		42.530	TM 8145.000	TM 240700.000
%RSD		6.724	TM 0.376	TM 1.735
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		91.540	M 464.300	M 376.500
%RSD		0.243	M 0.535	M 0.084
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 728.900	88.533%	101.600
%RSD		M 0.324	0.487	0.472
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.355	11.850	24.220
%RSD		27.180	2.564	0.366
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.418	-24.730
%RSD		0.000	2.771	7.192
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		2.214	88.935%	1.567
%RSD		6.015	0.759	2.333
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 856.200	0.000	0.000
%RSD		M 0.426	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.359	192.600	89.491%
%RSD		3.714	1.111	0.876

LV3LA 3/17/2010 14:08:31 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		81.981%	9.470	T 1222.000
%RSD		2.240	2.421	T 3.080
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		41850.000	M 131800.000	0.000
%RSD		1.003	M 0.349	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 11300.000	M 119600.000	T 96.541%
%RSD		T 1.740	M 1.184	T 0.844
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		89.711%	179.700	M 993.600
%RSD		1.260	0.389	M 0.793
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		48.890	TM 5786.000	TM 236300.000
%RSD		2.370	TM 1.018	TM 0.853
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		96.750	M 539.200	M 206.700
%RSD		1.062	M 0.783	M 0.806
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 665.300	86.319%	97.890
%RSD		M 1.415	1.602	2.404
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.442	12.660	22.900
%RSD		3.447	8.519	1.209
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.360	-27.310
%RSD		0.000	6.015	19.450
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.623	87.114%	1.616
%RSD		4.733	1.388	2.796
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 972.500	0.000	0.000
%RSD		M 0.696	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.700	TM 304.500	87.735%
%RSD		0.654	TM 1.026	1.085

LV3LC 3/17/2010 14:13:10 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		84.721%	8.484	T 943.700
%RSD		3.284	1.693	T 2.152
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		41860.000	M 115500.000	0.000
%RSD		1.105	M 0.723	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9011.000	M 103900.000	T 96.682%
%RSD		T 1.061	M 0.665	T 0.418
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.265%	179.200	M 670.000
%RSD		1.160	0.926	M 0.472
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		34.780	TM 4743.000	TM 230100.000
%RSD		3.352	TM 0.418	TM 0.988
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		91.920	M 414.400	M 234.700
%RSD		1.000	M 0.736	M 0.992
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 558.900	87.775%	98.810
%RSD		M 0.547	1.638	1.522
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.383	10.440	25.540
%RSD		18.380	9.197	1.078
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.328	-31.620
%RSD		0.000	7.896	79.580
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.611	88.319%	1.742
%RSD		5.820	1.676	5.053
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 891.600	0.000	0.000
%RSD		M 0.850	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.619	M 206.500	89.651%
%RSD		0.695	M 0.991	0.779

LV3LE 3/17/2010 14:17:51 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.452%	5.681	T 467.600
%RSD		2.754	2.011	T 2.085
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		24630.000	M 106700.000	0.000
%RSD		1.469	M 0.934	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 8848.000	35360.000	T 97.770%
%RSD		T 1.201	1.030	T 0.276
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.521%	181.300	M 944.500
%RSD		0.232	0.753	M 0.010
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		48.860	TM 6299.000	TM 241800.000
%RSD		0.565	TM 0.789	TM 2.237
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		92.940	M 531.100	140.800
%RSD		1.040	M 0.285	1.164
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 477.800	88.642%	98.120
%RSD		M 0.853	1.471	0.339
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.418	8.577	25.440
%RSD		21.990	1.410	1.121
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.421	-8.684
%RSD		0.000	4.290	74.550
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		4.001	88.686%	2.957
%RSD		11.430	1.426	2.767
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 764.200	0.000	0.000
%RSD		M 0.543	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.778	175.200	90.847%
%RSD		0.560	0.400	1.112

LV3LJ 3/17/2010 14:22:34 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.931%	7.632	T 661.300
%RSD		3.503	4.609	T 2.378
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		35460.000	M 130600.000	0.000
%RSD		1.051	M 0.369	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 12840.000	56470.000	T 100.772%
%RSD		T 0.582	1.226	T 0.521
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		93.209%	M 204.300	M 573.400
%RSD		1.259	M 0.950	M 0.218
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		28.180	TM 6729.000	TM 262500.000
%RSD		9.437	TM 0.733	TM 1.441
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		112.500	M 388.200	M 203.600
%RSD		0.762	M 0.492	M 0.243
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 673.000	91.187%	131.100
%RSD		M 1.082	0.223	1.580
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.628	11.430	18.270
%RSD		11.010	6.934	2.547
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.337	-16.680
%RSD		0.000	5.623	77.050
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.677	90.312%	1.747
%RSD		9.495	0.552	3.981
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 1037.000	0.000	0.000
%RSD		M 1.599	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.777	163.800	91.904%
%RSD		0.688	0.966	0.874

LV3LT 3/17/2010 14:27:15 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.141%	4.540	T 590.900
%RSD		0.278	2.169	T 0.565
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		20540.000	M 60810.000	0.000
%RSD		0.651	M 1.601	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 6519.000	70380.000	T 97.670%
%RSD		T 0.636	1.242	T 0.428
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		90.587%	131.400	159.700
%RSD		0.940	0.561	1.105
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.996	TM 2899.000	TM 149000.000
%RSD		2.304	TM 1.176	TM 2.614
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		54.340	143.600	119.500
%RSD		0.423	1.088	1.465
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 395.700	90.042%	74.420
%RSD		M 0.978	1.223	2.211
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.392	7.455	11.380
%RSD		2.943	10.030	1.459
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.187	-12.980
%RSD		0.000	7.706	17.530
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		1.064	90.683%	3.115
%RSD		15.090	0.633	2.736
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 485.200	0.000	0.000
%RSD		M 0.338	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.077	118.600	91.837%
%RSD		1.907	1.884	0.339

LV3LW 3/17/2010 14:31:53 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		87.199%	6.937	T 445.600
%RSD		3.415	4.905	T 3.393
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		26610.000	M 117400.000	0.000
%RSD		1.498	M 1.681	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 11890.000	31560.000	T 101.780%
%RSD		T 1.806	0.644	T 0.195
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.922%	189.000	158.400
%RSD		0.366	0.763	0.369
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		7.178	TM 4050.000	TM 211300.000
%RSD		7.816	TM 0.039	TM 2.248
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		135.500	198.600	173.600
%RSD		0.850	0.235	0.241
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 705.200	93.465%	104.900
%RSD		M 0.358	0.603	1.985
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.531	12.880	12.220
%RSD		14.690	4.864	1.984
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.274	-11.990
%RSD		0.000	4.430	172.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		3.263	91.022%	6.897
%RSD		8.058	0.656	1.299
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 752.100	0.000	0.000
%RSD		M 1.352	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.446	M 226.800	93.650%
%RSD		1.091	M 1.206	0.159

CCV 4 3/17/2010 14:36:34 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		86.483%	100.467%	T 106.366%
%RSD		1.062	1.177	T 1.332
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		100.756%	100.226%	0.000
%RSD		0.606	1.370	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 99.604%	101.054%	T 89.004%
%RSD		T 0.750	0.889	T 1.142
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		85.618%	99.226%	100.135%
%RSD		1.160	1.877	0.719
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.563	T 100.766%	T 100.269%
%RSD		8.854	T 0.523	T 0.633
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		102.164%	102.040%	100.198%
%RSD		0.926	0.603	1.137
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.186%	82.812%	100.417%
%RSD		1.100	1.292	1.338
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.360	101.027%	104.029%
%RSD		73.510	2.986	2.596
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	102.457%	63.180
%RSD		0.000	0.606	36.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		103.174%	85.228%	100.429%
%RSD		1.509	0.244	1.278
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.716%	0.000	0.000
%RSD		0.850	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		102.301%	99.390%	86.821%
%RSD		0.206	1.135	0.252

CCB 4 3/17/2010 14:43:27 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.543%	0.024	12.120
%RSD		2.572	18.170	8.763
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		28.130	15.520	0.000
%RSD		26.020	8.526	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		10.300	18.390	T 84.086%
%RSD		12.110	44.690	T 0.189
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		82.191%	0.171	0.038
%RSD		0.886	88.140	96.070
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.197	0.419	45.670
%RSD		90.980	6.196	0.866
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.047	0.114	0.098
%RSD		8.196	49.300	93.420
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.132	83.519%	0.045
%RSD		35.170	1.249	112.900
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.062	0.001	0.039
%RSD		12.850	12590.000	29.590
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.042	-0.001
%RSD		0.000	26.190	442600.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.035	86.637%	0.045
%RSD		86.040	0.737	41.440
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.118	0.000	0.000
%RSD		44.680	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.107	0.066	93.802%
%RSD		6.504	1.060	0.437

LV3LX 3/17/2010 14:48:04 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		83.692%	5.888	318.400
%RSD		2.676	1.928	4.247
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		20080.000	M 87370.000	0.000
%RSD		0.784	M 1.054	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 8269.000	25570.000	T 95.452%
%RSD		T 1.151	0.728	T 1.121
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.265%	171.900	121.700
%RSD		3.001	0.892	0.538
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.778	TM 10730.000	TM 176500.000
%RSD		11.290	TM 0.224	TM 1.830
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		96.070	156.300	146.000
%RSD		1.276	0.434	0.793
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 986.900	93.634%	83.740
%RSD		M 0.772	2.503	0.411
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.525	11.640	16.900
%RSD		7.504	3.927	0.693
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.362	-18.840
%RSD		0.000	3.980	103.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		3.724	92.922%	2.892
%RSD		3.185	3.237	3.993
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 819.900	0.000	0.000
%RSD		M 0.914	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.586	TM 252.700	95.453%
%RSD		1.432	TM 1.262	1.735

LWMH8B 3/17/2010 14:52:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.141%	-0.006	60.810
%RSD		2.683	61.090	4.169
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		45.230	5.317	0.000
%RSD		31.340	31.650	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		14.230	134.900	T 98.273%
%RSD		11.730	5.141	T 0.401
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.487%	-0.122	0.411
%RSD		1.623	123.400	10.630
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.159	1.092	41.640
%RSD		88.970	4.108	2.320
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.016	0.636	0.635
%RSD		43.010	24.620	7.220
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		11.200	93.812%	-0.065
%RSD		4.911	1.353	168.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.116	0.078	-0.031
%RSD		7.444	132.000	74.960
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.001	0.577
%RSD		0.000	370.400	103.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.009	94.380%	-0.004
%RSD		65.760	0.300	266.200
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.636	0.000	0.000
%RSD		19.050	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		-0.012	0.115	97.412%
%RSD		40.260	2.112	0.219

LWMH8C 3/17/2010 14:57:23 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.738%	87.490	T 10370.000
%RSD		0.878	1.063	T 1.794
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		10030.000	M 9860.000	0.000
%RSD		1.860	M 0.749	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9619.000	10310.000	T 90.394%
%RSD		T 1.039	0.203	T 0.803
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		87.939%	95.700	97.480
%RSD		0.786	1.458	0.371
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.429	100.400	10620.000
%RSD		16.080	0.800	1.477
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.800	103.100	102.000
%RSD		0.733	1.506	1.148
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		101.200	83.589%	85.370
%RSD		0.872	0.944	0.421
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.199	80.880	100.100
%RSD		50.710	1.497	0.548
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.100	1.184
%RSD		0.000	0.601	2801.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		93.430	88.678%	91.570
%RSD		1.063	0.360	0.773
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.480	0.000	0.000
%RSD		1.328	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.330	96.720	91.639%
%RSD		0.465	1.021	0.826

LWLDR 3/17/2010 15:04:17 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		85.719%	5.298	T 632.300
%RSD		2.549	4.060	T 1.831
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		30430.000	M 92820.000	0.000
%RSD		1.084	M 0.313	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 9321.000	17650.000	T 97.721%
%RSD		T 1.383	0.138	T 0.228
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		87.933%	161.500	138.500
%RSD		0.334	0.793	0.340
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		6.547	TM 4439.000	TM 237400.000
%RSD		15.040	TM 0.565	TM 1.565
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		95.180	M 222.400	197.200
%RSD		0.646	M 1.116	0.371
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 562.500	83.940%	142.600
%RSD		M 0.706	0.620	0.643
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.675	10.550	15.000
%RSD		15.760	12.240	2.002
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.238	-40.110
%RSD		0.000	4.535	33.070
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.895	84.933%	0.981
%RSD		9.128	0.341	11.710
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 751.800	0.000	0.000
%RSD		M 0.447	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.448	120.500	88.251%
%RSD		1.081	0.585	0.701

LWLD2 3/17/2010 15:08:59 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		78.990%	4.576	T 663.000
%RSD		0.362	2.534	T 1.172
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		55410.000	M 85500.000	0.000
%RSD		0.671	M 0.496	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 13150.000	M 133600.000	T 92.725%
%RSD		T 0.260	M 0.297	T 0.337
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		89.787%	148.200	137.900
%RSD		1.571	0.583	0.502
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		6.811	TM 3530.000	TM 229400.000
%RSD		4.685	TM 1.099	TM 1.184
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		95.030	M 228.600	167.400
%RSD		0.828	M 1.067	0.972
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 481.200	85.254%	122.200
%RSD		M 0.284	1.630	0.901
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.632	8.702	10.050
%RSD		16.950	11.250	2.957
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.187	-19.970
%RSD		0.000	1.035	82.510
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.404	88.252%	0.630
%RSD		4.485	1.912	4.630
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 493.400	0.000	0.000
%RSD		M 0.408	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.390	94.850	89.535%
%RSD		1.098	1.017	1.451

LWJ2Q 3/17/2010 15:13:49 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		88.875%	5.715	293.200
%RSD		0.376	2.964	0.311
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		22440.000	M 86690.000	0.000
%RSD		1.903	M 0.607	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 6261.000	15760.000	T 99.675%
%RSD		T 0.648	1.097	T 0.373
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		88.565%	167.400	124.300
%RSD		0.400	0.254	0.406
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		6.619	TM 2812.000	TM 258400.000
%RSD		3.415	TM 0.633	TM 0.689
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		69.490	174.900	158.500
%RSD		0.470	0.635	1.383
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 514.700	83.787%	118.900
%RSD		M 0.794	1.160	1.108
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.563	9.089	11.130
%RSD		21.160	4.831	4.040
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.189	-14.640
%RSD		0.000	4.987	78.420
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.352	85.572%	0.835
%RSD		9.400	0.817	5.943
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 471.400	0.000	0.000
%RSD		M 1.121	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		1.164	107.300	88.553%
%RSD		1.254	0.669	0.572

LWJ2QL 3/17/2010 15:18:38 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.866%	1.236	64.910
%RSD		1.878	1.792	3.950
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		4803.000	M 18900.000	0.000
%RSD		2.270	M 1.073	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1334.000	3346.000	T 84.591%
%RSD		T 1.360	0.058	T 0.657
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		81.119%	34.730	25.940
%RSD		0.893	1.748	1.267
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.381	T 588.600	TM 53780.000
%RSD		29.230	T 0.811	TM 0.947
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		14.290	38.430	34.470
%RSD		1.880	1.431	1.857
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		119.700	80.766%	26.830
%RSD		0.642	1.087	0.411
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.050	1.995	2.145
%RSD		184.000	20.970	0.911
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.035	-0.728
%RSD		0.000	29.370	163.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.094	81.618%	0.176
%RSD		21.790	0.873	12.880
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		95.260	0.000	0.000
%RSD		1.930	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.167	21.810	88.081%
%RSD		6.939	1.418	0.459

LWJ2QA 3/17/2010 15:23:18 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		80.665%	107.500	T 11050.000
%RSD		2.892	2.372	T 1.913
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		32170.000	M 94910.000	0.000
%RSD		1.421	M 0.346	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		T 16160.000	26080.000	T 90.791%
%RSD		T 1.296	0.422	T 0.321
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		85.619%	M 265.700	M 222.300
%RSD		0.853	M 0.415	M 0.928
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		11.010	TM 2808.000	TM 262100.000
%RSD		7.059	TM 1.156	TM 2.117
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		170.000	M 273.600	M 253.100
%RSD		1.314	M 0.827	M 1.106
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		M 586.900	81.370%	M 200.700
%RSD		M 0.470	0.759	M 1.455
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		0.393	91.950	119.200
%RSD		54.720	4.131	1.230
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	105.800	-8.252
%RSD		0.000	0.967	208.900
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		99.270	82.753%	100.200
%RSD		0.807	1.386	0.662
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		M 560.900	0.000	0.000
%RSD		M 0.220	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		105.000	M 204.400	85.977%
%RSD		0.673	M 0.991	0.925

LWJ2QS/10 3/17/2010 15:30:10 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.207%	9.817	T 1086.000
%RSD		3.213	2.479	T 2.665
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3493.000	M 11500.000	0.000
%RSD		3.022	M 0.766	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1477.000	2483.000	T 85.911%
%RSD		T 1.266	0.197	T 0.730
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		82.592%	26.200	22.020
%RSD		0.614	0.931	1.147
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.610	T 533.800	T 22050.000
%RSD		6.341	T 1.286	T 2.112
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		18.540	26.620	23.330
%RSD		2.489	2.336	2.624
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		60.110	83.068%	19.930
%RSD		4.397	0.967	0.400
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.021	9.581	9.685
%RSD		160.700	8.791	4.409
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	9.690	-4.235
%RSD		0.000	0.806	173.700
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		9.564	84.580%	2.478
%RSD		2.956	1.814	4.899
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		64.420	0.000	0.000
%RSD		2.329	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		8.949	20.940	88.564%
%RSD		0.766	0.812	0.278

LWJ2QD/10 3/17/2010 15:35:44 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.997%	9.340	T 996.900
%RSD		1.077	1.935	T 0.073
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3389.000	M 11040.000	0.000
%RSD		5.181	M 1.212	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1462.000	2261.000	T 84.151%
%RSD		T 1.257	0.763	T 0.304
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		82.586%	24.920	21.490
%RSD		0.523	1.378	1.010
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.361	T 423.300	T 22090.000
%RSD		19.290	T 0.706	T 1.713
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		21.790	27.610	23.980
%RSD		0.559	3.031	2.157
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		60.190	83.254%	21.250
%RSD		0.838	0.528	1.959
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.057	9.017	9.634
%RSD		118.600	5.609	4.436
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	9.560	-1.998
%RSD		0.000	0.931	202.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		9.152	84.008%	2.723
%RSD		3.061	0.653	2.787
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		58.250	0.000	0.000
%RSD		0.330	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		8.839	19.840	88.856%
%RSD		1.405	1.101	1.341

CCV 5 3/17/2010 15:40:58 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		79.440%	101.211%	T 92.028%
%RSD		2.591	2.356	T 1.160
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		97.441%	107.405%	0.000
%RSD		0.090	2.823	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 99.441%	100.180%	T 79.725%
%RSD		T 0.734	0.368	T 1.417
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		89.729%	98.717%	98.594%
%RSD		1.230	0.924	0.623
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.275	T 99.554%	T 98.060%
%RSD		5.274	T 1.265	T 0.941
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		98.211%	98.003%	96.575%
%RSD		2.736	1.127	0.815
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		101.521%	86.745%	100.247%
%RSD		1.062	1.544	0.018
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.404	105.700%	100.870%
%RSD		29.580	0.934	1.901
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	98.937%	64.910
%RSD		0.000	0.270	71.680
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.037%	89.099%	100.207%
%RSD		0.451	1.333	0.545
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		100.876%	0.000	0.000
%RSD		1.163	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		100.757%	99.228%	86.598%
%RSD		0.751	1.190	0.429

CCB 5 3/17/2010 15:47:50 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		82.475%	0.021	10.700
%RSD		2.003	43.620	8.664
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		74.650	15.030	0.000
%RSD		32.310	4.400	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		11.410	13.010	T 79.577%
%RSD		3.492	37.760	T 0.491
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		86.578%	-0.014	0.085
%RSD		0.537	393.400	35.240
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		0.065	0.424	60.090
%RSD		99.910	1.139	6.711
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.125	0.112	0.179
%RSD		22.060	18.320	27.680
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		0.164	87.212%	0.171
%RSD		73.290	1.535	40.290
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.045	0.134	0.100
%RSD		70.490	57.360	33.510
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	0.112	-0.632
%RSD		0.000	33.910	65.340
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.111	89.061%	0.159
%RSD		33.240	1.274	12.440
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.194	0.000	0.000
%RSD		23.030	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.209	0.119	93.937%
%RSD		14.170	10.690	0.311

STD2/CCV STD 0B97 ICSA STD 0C123 CRI STD 0B98
STD3 STD 0B59 ICSAB STD 0B99
STD4 STD 0B60 ICV STD 0B61 DIL BLK 0MR121
QSMCR+ 0A40

Test America North Canton ICP/MS Data Review Checklist

Run/Project Information:

Run Date: 3-18-10 Analyst: KW Instrument: I8
Prep Batches Run: See Run Log

Circle Methods used: 6020/ 200.8: CORP-MT-0001NC

Review Items

A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
2. Performance check within recommended specfications? (Be>8000cps) (In >300,000 cps) (Pb >100,000 cps) (Co>100000cps) (Mg>10000cps) (CeO/Ce ≤ 0.03) (Ba++/Ba+ ≤ 0.03)(Background < 30cps @ Mass 220) CCT Performance Check (In>75000cps) (Se<20 cps)	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? Correlation coefficient ≥ .995 ?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? *(ICV: = 90 – 110%) (CCV: 90 – 110%, 200.8 = 85 -115%)*	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%)?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed ?	✓			✓
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time ?	✓			✓
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits ?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits ?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits ?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			
E. Other				
1. Are all nonconformances documented appropriately ?	✓			✓
2. Current IDL/LR data on file ?	✓			✓
3. Calculations checked for error ?	✓			✓
4. Transcriptions checked for error ?	✓			✓
5. All client/project specific requirements met ?	✓			✓
6. Date/time of analysis verified as correct ?	✓			✓

Level I Analyst: Karen L Counts Date: 3-18-10 Time: 08:49-12:57
Level I Analyst: Karen L Counts Date: 3-19-10 Time: 13:02-23:41

Level II Reviewer: Date: 3.18.10 Time: 08:49-12:57
Level II Reviewer: Date: 3.19.10 Time: 13:02-23:41

Comments:

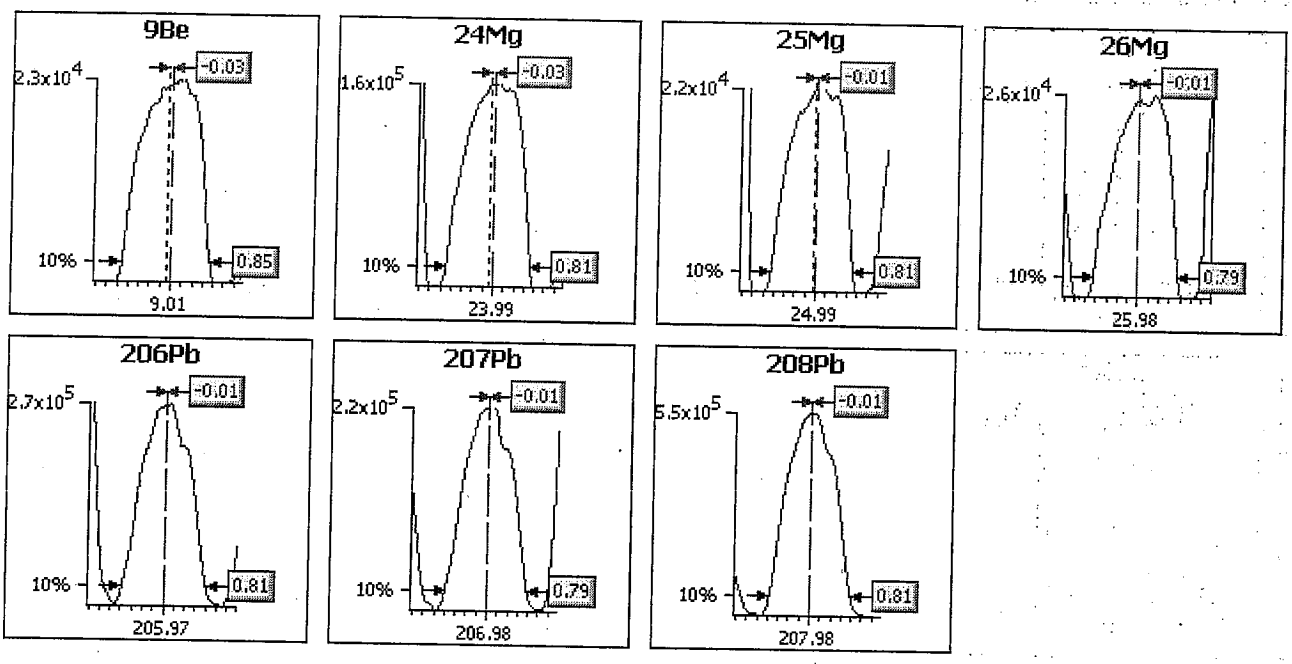
N:/Metals/ICPMS /Data Review Checklist
Rev. 1, 09/21/2007

Performance Report

Sample details
Acquired at : 3/18/2010 08:05:29
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Mass Calibration verification

Acquisition parameters
Sweeps : 10
Dwell : 5.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 10% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.85	-0.03
24Mg	0.85	0.65	0.10	0.81	-0.03
25Mg	0.85	0.65	0.10	0.81	-0.01
26Mg	0.85	0.65	0.10	0.79	-0.01
206Pb	0.85	0.65	0.10	0.81	-0.01
207Pb	0.85	0.65	0.10	0.79	-0.01
208Pb	0.85	0.65	0.10	0.81	-0.01

Sample details
Acquired at : 3/18/2010 08:05:29
Report name : STD MODE PERF REPORT [8/11/2009 07:18:25]

Tune conditions

Major	
Extraction	-121.6
Lens 1	-1224
Lens 2	-80.0
Focus	12.5
D1	-46.3
D2	-140
Pole Bias	0.1
Hexapole Bias	-4.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	69
Vertical	362
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1529
PC Detector	3176

Add. Gases	
He_H2	0.00
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	137Ba++	101Bkg	115In
Dwell (mSecs)		100.0	10.0	10.0	10.0	10.0	10.0	30.0	100.0	10.0
Limits	%RSD	-	5.0%	-	5.0%	-	5.0%	-	-	5.0%
	Countrate	-	>8000	>10000	>10000	>10000	>100000	-	-	>300000
1	08:06:04	0.000	22608.657	170669.39	23142.723	27743.071	267130.41	1356.722	2.333	737364.86
2	08:06:22	0.000	22745.510	172770.88	23426.452	28107.013	267276.05	1370.056	2.333	740105.76
3	08:06:40	0.667	22745.510	173107.68	23603.368	27970.117	268014.43	1374.501	2.000	732761.70
4	08:06:57	0.000	22675.415	173599.42	24003.940	28968.487	266747.68	1331.164	3.000	731717.29
5	08:07:15	0.000	22648.712	174650.31	23910.472	28905.043	270842.94	1445.618	4.667	733548.54
x		0.133	22684.761	172959.53	23617.391	28338.746	268002.30	1375.612	2.867	735099.63
σ		0.30	60.33	1463.77	352.59	561.62	1653.11	42.62	1.07	3517.98
%RSD		223.607	0.266	0.846	1.493	1.982	0.617	3.098	37.318	0.479

Run	Time	137Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
Dwell (mSecs)		10.0	10.0	30.0	10.0	10.0	10.0	100.0
Limits	%RSD	-	-	-	-	-	5.0%	-
	Countrate	-	-	-	>100000	>100000	>100000	<30
1	08:06:04	85257.509	718514.42	17149.930	275599.97	228390.89	563959.43	0.000
2	08:06:22	85311.116	722929.32	16462.571	271452.74	223755.31	557721.36	0.000
3	08:06:40	85522.193	724244.61	16097.770	276081.17	226718.28	560426.54	0.000
4	08:06:57	85622.707	721885.50	18094.261	271517.11	224083.00	556911.62	0.333
5	08:07:15	85679.666	725340.77	17166.614	274349.60	227258.91	566744.90	0.000
x		85478.638	722582.92	16994.229	273800.12	226041.28	561152.77	0.067
σ		187.10	2623.26	766.54	2206.07	2032.37	4166.49	0.15
%RSD		0.219	0.363	4.511	0.806	0.899	0.742	223.607

Ratio results

Run	Time	137Ba++/137Ba	156Ce O/140Ce
Ratio limits		<0.0300	<0.0300
1	08:06:04	0.016	0.024
2	08:06:22	0.016	0.023
3	08:06:40	0.016	0.022
4	08:06:57	0.016	0.025
5	08:07:15	0.017	0.024
x		0.0161	0.0235
σ		0.00	0.00
%RSD		3.0116	4.6392

Result : The performance report passed.

Performance Report

Sample details
Acquired at : 3/18/2010 08:10:49
Report name : CCT MODE PERF REPORT [5/14/2008 11:21:44]

Tune conditions

Major	
Extraction	-105.9
Lens 1	-1200
Lens 2	-80.0
Focus	1.8
D1	-51.0
D2	-140
Pole Bias	-14.0
Hexapole Bias	-17.0
Nebuliser	0.82

Minor	
Lens 3	-195.3
Forward power	1404
Horizontal	62
Vertical	362
DA	-46.3
Cool	13.0
Auxiliary	0.90
Sampling Depth	130

Global	
Standard resolution	135
High resolution	135
Analogue Detector	1529
PC Detector	3176

Add. Gases	
He_H2	2.20
He_H2	0.00

Sensitivity and stability results

Acquisition parameters
Sweeps : 30

Run	Time	78Se	115In
Dwell (mSecs)		500.0	10.0
Limits	%RSD	-	5.0%
	Countrate	<20	>75000
1	08:10:49	12.400	99693.944
2	08:11:07	9.667	98000.612
3	08:11:24	11.200	99784.483
4	08:11:42	10.933	98885.818
5	08:11:59	12.000	99120.539
x		11.240	99097.079
σ		1.06	720.45
%RSD		9.430	0.727

Result : The performance report passed.

Experiment Details

Description	PlasmaLab Template BlankExperiment
Template Filename	C:\Program Files\Thermo Fisher\PlasmaLab\Templates\TEST AMERICA NORTH CANTON_QSM 3.0.tet
Created By User	martin.nash
Analyte Database	TA NORTH CANTON MULTIMODE.tea
Creation Timestamp	10/10/2007 09:08:48
Last Edited By	Upload
Last Edit Timestamp	3/18/2010 08:47:47
Instrument Detector	Simultaneous
Database Version	3,51
Acquisition Mode	Unknown

Numerical Results report key (text indicates meaning)

Blue text indicates that cell is a statistic.
Underlining indicates that a data warning flag is set.

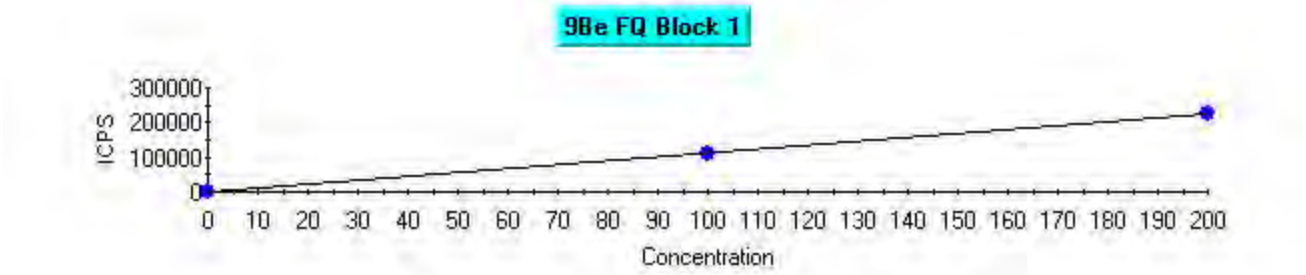
Column headings
- No flag
- Semi Quant
- Standard Addition
- Multi Element

Result cells
- Internal Standard
- Excluded
- QC Warning
- QC Failure

Transient TRA only:
- Peak Not Found
- Manually Edited
- Merged Peak

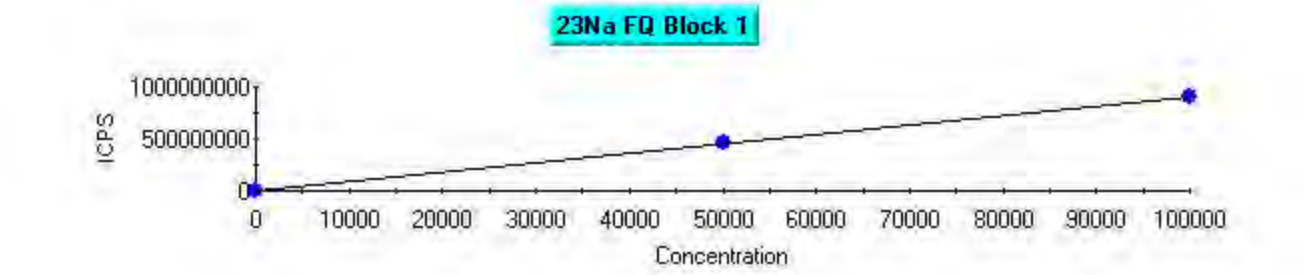
Data warning flags
I - Invalid calibration
T - Tripped
F - Interference correction failed
M - Result over max
V - Valley integration failed
D - Different method used

Fully Quant Calibration



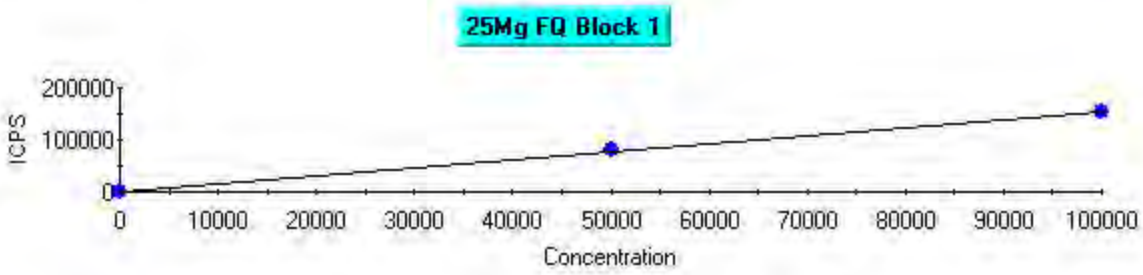
Intercept CPS=43.175884 Intercept Conc=0.038735
Sensitivity=1114.659515 Correlation Coeff=0.999992

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	43.18	0.00
STD2	100.000	100.547	0.547	112118.83	0.55
STD3	200.000	199.727	0.273	222670.23	0.14



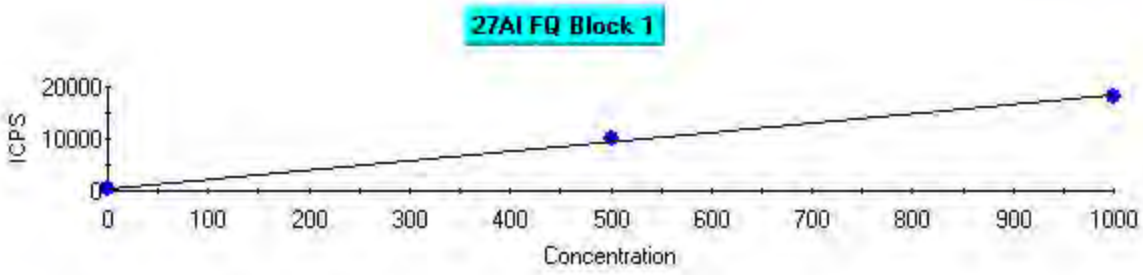
Intercept CPS=521733.739884 Intercept Conc=57.834534
Sensitivity=9021.145416 Correlation Coeff=0.999765

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	521733.74	0.00
STD2	50000.000	51491.517	1491.517	465034197.54	2.98
STD3	100000.000	99254.241	745.759	895908678.79	0.75



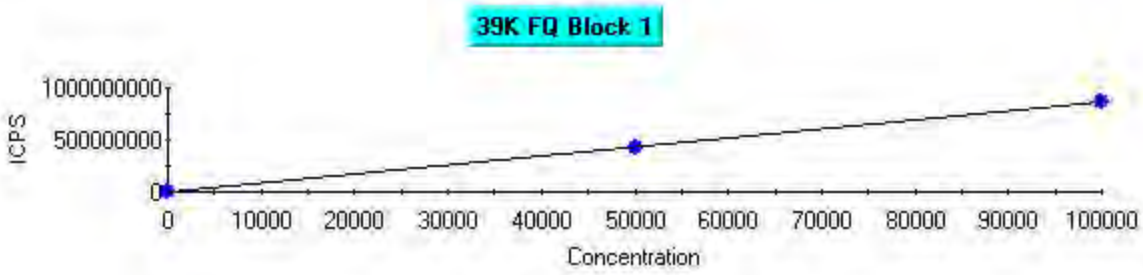
Intercept CPS=30.022322 Intercept Conc=19.432094
Sensitivity=1.544986 Correlation Coeff=0.999655

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	30.02	0.00
STD2	50000.000	51803.511	1803.511	80065.75	3.61
STD3	100000.000	99098.244	901.756	153135.47	0.90



Intercept CPS=336.677406 Intercept Conc=18.644923
Sensitivity=18.057324 Correlation Coeff=0.999343

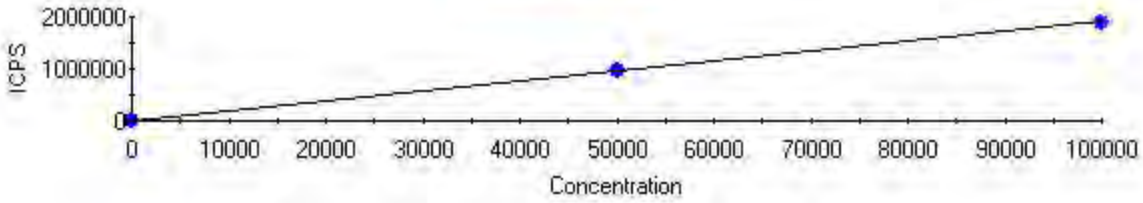
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	336.68	0.00
STD2	500.000	524.814	24.814	9813.41	4.96
STD3	1000.000	987.593	12.407	18169.97	1.24



Intercept CPS=585468.448015 Intercept Conc=68.195259
Sensitivity=8585.178118 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	585468.45	0.00
STD2	50000.000	50031.814	31.814	430117504.04	0.06
STD3	100000.000	99984.093	15.907	858966715.42	0.02

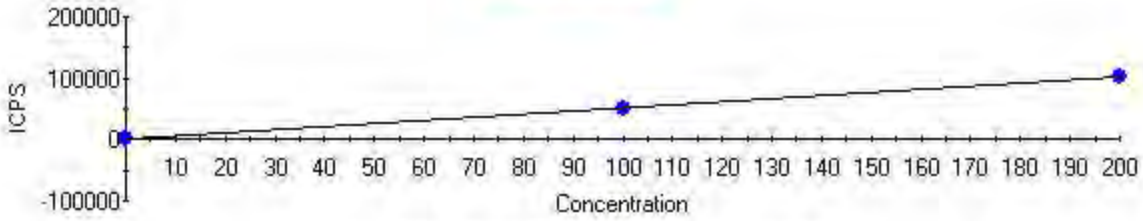
43Ca FQ Block 1



Intercept CPS=2459.342955 Intercept Conc=129.275507
Sensitivity=19.024044 Correlation Coeff=0.999928

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	2459.34	0.00
STD2	50000.000	50827.505	827.505	969404.04	1.66
STD3	100000.000	99586.248	413.752	1896992.52	0.41

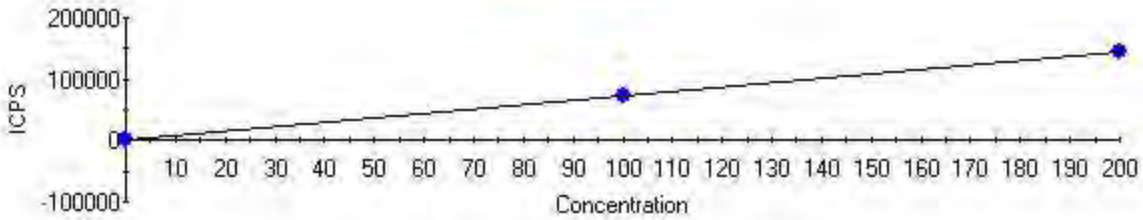
51V FQ Block 1



Intercept CPS=-61.326839 Intercept Conc=-0.121110
Sensitivity=506.374905 Correlation Coeff=0.999964

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-61.33	0.00
STD2	100.000	101.166	1.166	51166.50	1.17
STD3	200.000	199.417	0.583	100918.49	0.29

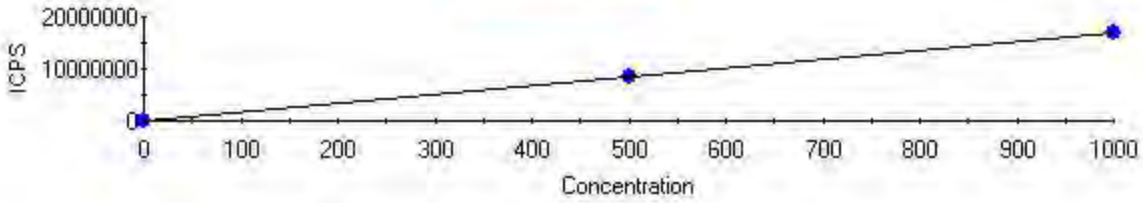
52Cr FQ Block 1



Intercept CPS=-205.648158 Intercept Conc=-0.284000
Sensitivity=724.114202 Correlation Coeff=0.999967

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	-205.65	0.00
STD2	100.000	101.126	1.126	73021.42	1.13
STD3	200.000	199.437	0.563	144209.37	0.28

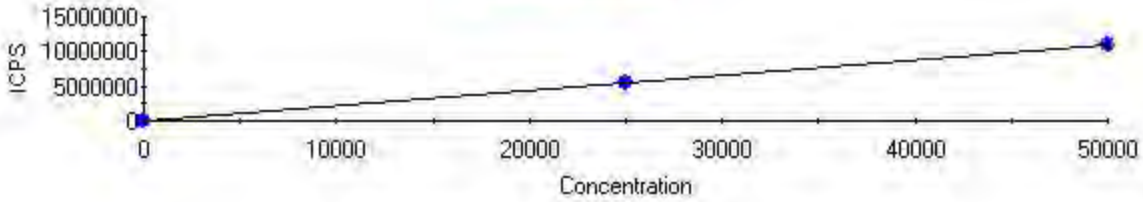
55Mn FQ Block 1



Intercept CPS=8105.369633 Intercept Conc=0.478749
Sensitivity=16930.306086 Correlation Coeff=0.999985

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	8105.37	0.00
STD2	500.000	503.829	3.829	8538089.90	0.77
STD3	1000.000	998.085	1.915	16905995.71	0.19

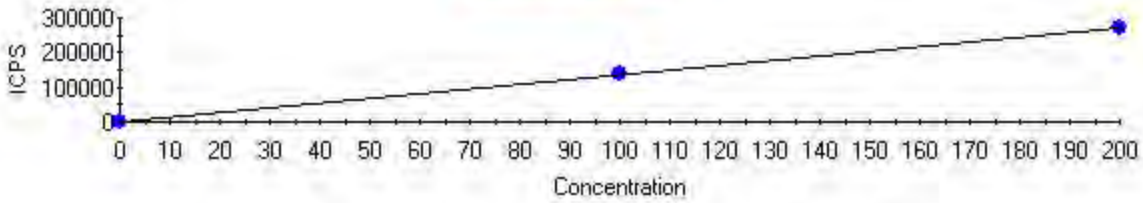
56Fe FQ Block 1



Intercept CPS=5341.754576 Intercept Conc=24.262011
Sensitivity=220.169487 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	5341.75	0.00
STD2	25000.000	24906.522	93.478	5488997.99	0.37
STD3	50000.000	50046.739	46.739	11024106.56	0.09

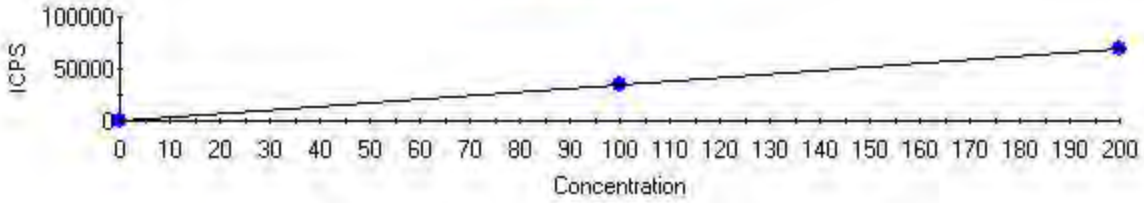
59Co FQ Block 1



Intercept CPS=60.046856 Intercept Conc=0.044111
Sensitivity=1361.281791 Correlation Coeff=0.999934

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	60.05	0.00
STD2	100.000	101.582	1.582	138341.95	1.58
STD3	200.000	199.209	0.791	271239.54	0.40

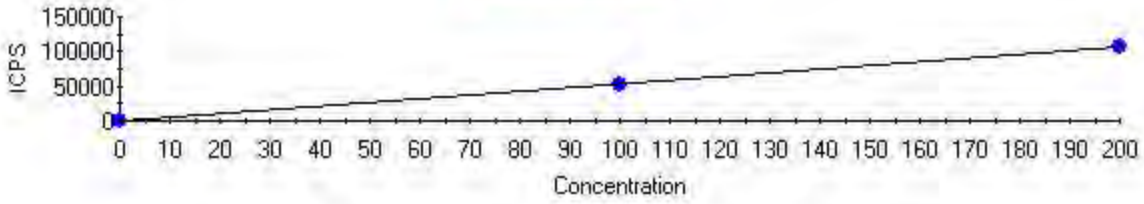
60Ni FQ Block 1



Intercept CPS=65.589551 Intercept Conc=0.190821
Sensitivity=343.722182 Correlation Coeff=0.999911

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	65.59	0.00
STD2	100.000	101.841	1.841	35070.69	1.84
STD3	200.000	199.079	0.921	68493.58	0.46

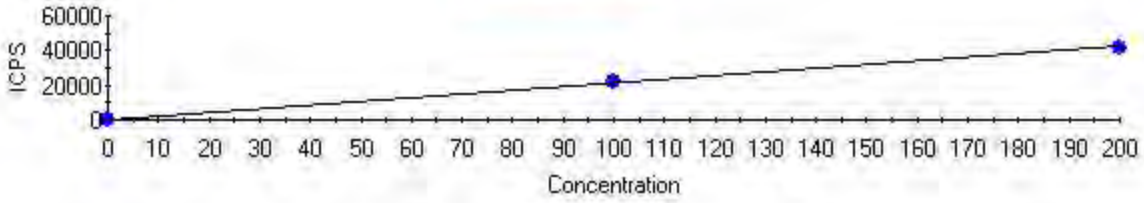
65Cu FQ Block 1



Intercept CPS=125.401199 Intercept Conc=0.237927
Sensitivity=527.057095 Correlation Coeff=0.999982

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	125.40	0.00
STD2	100.000	100.826	0.826	53266.53	0.83
STD3	200.000	199.587	0.413	105319.11	0.21

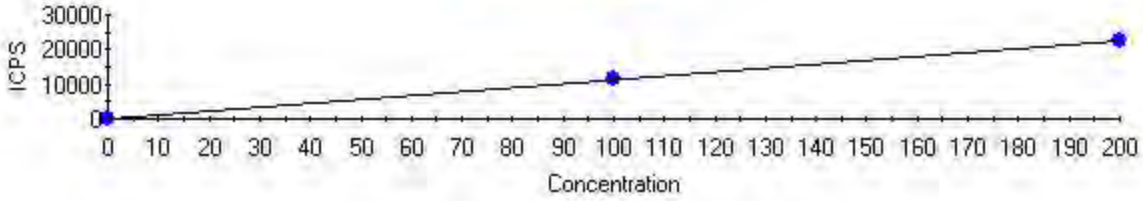
66Zn FQ Block 1



Intercept CPS=468.097002 Intercept Conc=2.235222
Sensitivity=209.418594 Correlation Coeff=0.999431

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	468.10	0.00
STD2	100.000	104.623	4.623	22378.10	4.62
STD3	200.000	197.688	2.312	41867.74	1.16

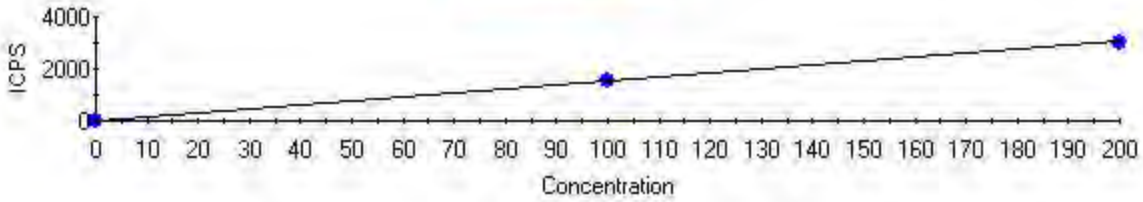
75As FQ Block 1



Intercept CPS=109.109998 Intercept Conc=0.967429
Sensitivity=112.783436 Correlation Coeff=1.000000

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	109.11	0.00
STD2	100.000	100.137	0.137	11402.85	0.14
STD3	200.000	199.932	0.068	22658.10	0.03

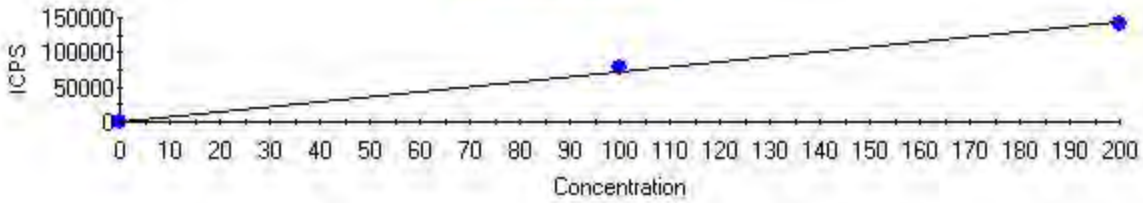
78Se FQ Block 1



Intercept CPS=4.369335 Intercept Conc=0.287676
Sensitivity=15.188397 Correlation Coeff=0.999923

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	4.37	0.00
STD2	100.000	101.707	1.707	1549.14	1.71
STD3	200.000	199.146	0.854	3029.08	0.43

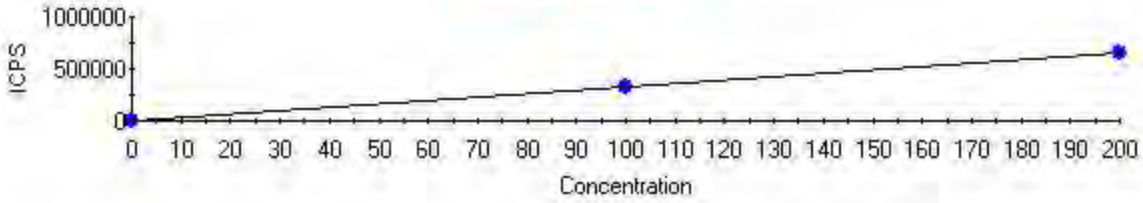
95Mo FQ Block 1



Intercept CPS=52.231288 Intercept Conc=0.072424
Sensitivity=721.186129 Correlation Coeff=0.999047

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	52.23	0.00
STD2	100.000	105.963	5.963	76471.56	5.96
STD4	200.000	197.018	2.982	142139.10	1.49

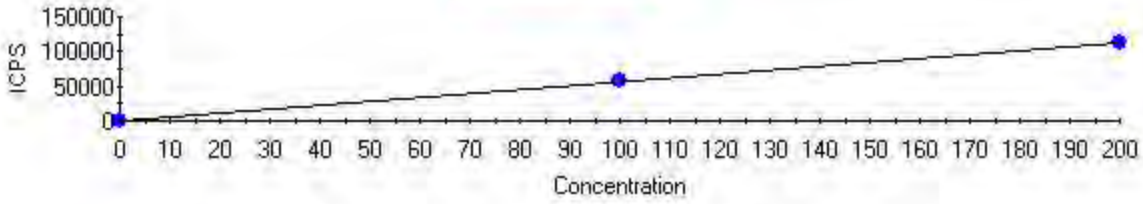
107Ag FQ Block 1



Intercept CPS=111.113423 Intercept Conc=0.034129
Sensitivity=3255.701664 Correlation Coeff=0.999821

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	-0.000	0.000	111.11	0.00
STD2	100.000	102.606	2.606	334166.77	2.61
STD3	200.000	198.697	1.303	647008.70	0.65

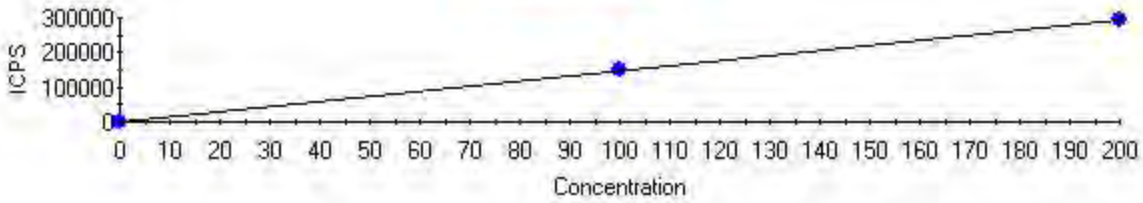
111Cd FQ Block 1



Intercept CPS=26.620164 Intercept Conc=0.047714
Sensitivity=557.913167 Correlation Coeff=0.999907

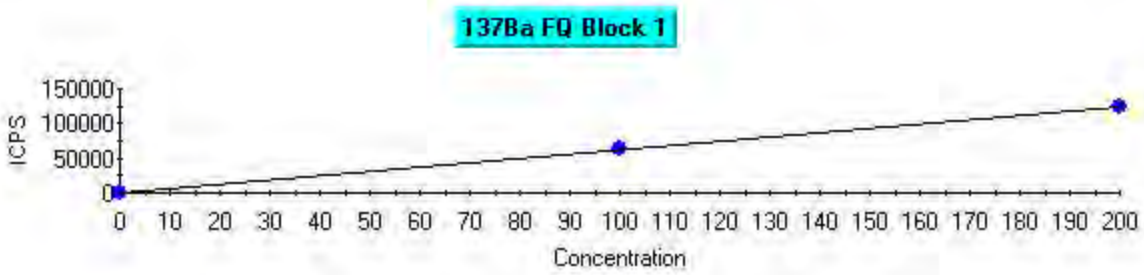
Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	26.62	0.00
STD2	100.000	101.877	1.877	56865.20	1.88
STD3	200.000	199.061	0.939	111085.62	0.47

121Sb FQ Block 1



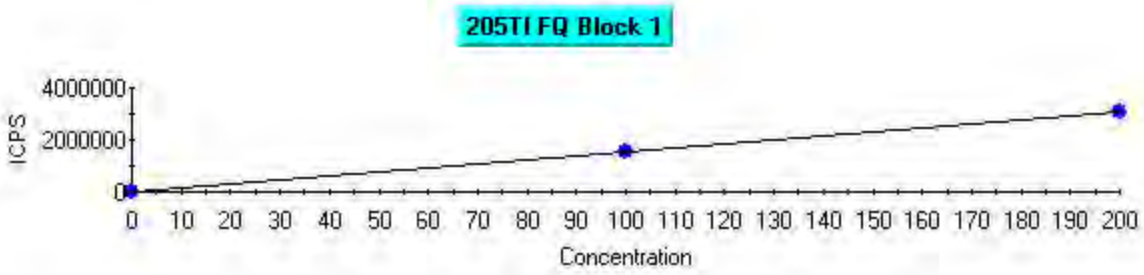
Intercept CPS=72.192029 Intercept Conc=0.048782
Sensitivity=1479.899478 Correlation Coeff=0.999946

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	72.19	0.00
STD2	100.000	101.428	1.428	150176.01	1.43
STD4	200.000	199.286	0.714	294995.15	0.36



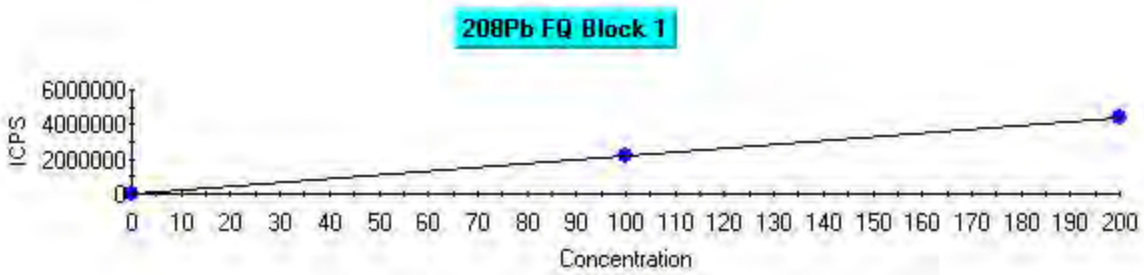
Intercept CPS=99.951804 Intercept Conc=0.161752
Sensitivity=617.930993 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	99.95	0.00
STD2	100.000	100.696	0.696	62323.06	0.70
STD3	200.000	199.652	0.348	123471.15	0.17



Intercept CPS=813.354169 Intercept Conc=0.053425
Sensitivity=15224.362544 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	813.35	0.00
STD2	100.000	99.644	0.356	1517825.89	0.36
STD3	200.000	200.178	0.178	3048397.72	0.09



Intercept CPS=1835.490305 Intercept Conc=0.083754
Sensitivity=21915.258360 Correlation Coeff=0.999976

Label	Defined	Measured	Error	Mean CPS	% Error
STD1	0.000	0.000	0.000	1835.49	0.00
STD2	100.000	99.033	0.967	2172177.81	0.97
STD3	200.000	200.483	0.483	4395478.92	0.24

Dilution Corrected Concentrations

STD1 3/18/2010 08:49:23

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.000%	0.000	-0.000
%RSD		3.651	0.000	0.000
Run	Time	25Mg	27Al	35Cl
		ppb	ppb	ppb
x		0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	39K	43Ca	45Sc
		ppb	ppb	ppb
x		-0.000	0.000	T 100.000%
%RSD		0.000	0.000	T 0.093
Run	Time	45Sc	51V	52Cr
		ppb	ppb	ppb
x		100.000%	0.000	0.000
%RSD		0.949	0.000	0.000
Run	Time	53Cl O	55Mn	56Fe
		ppb	ppb	ppb
x		-0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	59Co	60Ni	65Cu
		ppb	ppb	ppb
x		0.000	0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	66Zn	72Ge	75As
		ppb	ppb	ppb
x		-0.000	100.000%	0.000
%RSD		0.000	1.188	0.000
Run	Time	77Ar Cl	78Se	95Mo
		ppb	ppb	ppb
x		-0.000	-0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	105Pd	107Ag	108Mo O
		ppb	ppb	ppb
x		0.000	-0.000	-0.000
%RSD		0.000	0.000	0.000
Run	Time	111Cd	115In	121Sb
		ppb	ppb	ppb
x		0.000	100.000%	0.000
%RSD		0.000	0.546	0.000
Run	Time	137Ba	159Tb	165Ho
		ppb	ppb	ppb
x		0.000	0.000	0.000
%RSD		0.000	0.000	0.000
Run	Time	205Tl	208Pb	209Bi
		ppb	ppb	ppb
x		0.000	0.000	100.000%
%RSD		0.000	0.000	0.267

STD2 3/18/2010 08:53:58

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		96.216%	100.500	T 51490.000
%RSD		3.066	3.098	T 2.668
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		51800.000	524.800	0.000
%RSD		0.606	2.358	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 50030.000	50830.000	T 105.226%
%RSD		T 1.613	0.413	T 1.476
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		98.884%	101.200	101.100
%RSD		0.279	0.564	0.733
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.087	T 503.800	T 24910.000
%RSD		14.290	T 1.308	T 1.715
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		101.600	101.800	100.800
%RSD		0.256	1.151	0.996
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		104.600	95.539%	100.100
%RSD		0.820	2.144	0.562
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.366	101.700	106.000
%RSD		23.880	1.913	1.680
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	102.600	123.300
%RSD		0.000	0.552	70.990
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.900	97.488%	101.400
%RSD		0.772	1.133	0.961
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		100.700	0.000	0.000
%RSD		0.968	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.640	99.030	93.212%
%RSD		0.769	1.265	0.709

STD3 3/18/2010 09:00:51

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.416%	M 199.700	TM 99250.000
%RSD		1.832	M 2.489	TM 1.190
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		99100.000	M 987.600	0.000
%RSD		0.782	M 1.426	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		TM 99980.000	M 99590.000	T 109.412%
%RSD		TM 0.580	M 0.816	T 1.589
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		104.737%	M 199.400	M 199.400
%RSD		0.797	M 0.831	M 0.994
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		9.533	TM 998.100	TM 50050.000
%RSD		13.640	TM 1.179	TM 1.571
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		M 199.200	M 199.100	M 199.600
%RSD		M 1.145	M 1.142	M 0.913
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 197.700	99.715%	M 199.900
%RSD		M 2.013	0.755	M 1.289
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.482	M 199.100	0.233
%RSD		18.280	M 2.956	15.140
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	198.700	97.080
%RSD		0.000	0.563	10.060
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		M 199.100	103.123%	0.053
%RSD		M 0.737	0.593	28.360
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 199.700	0.000	0.000
%RSD		M 1.310	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		M 200.200	M 200.500	92.649%
%RSD		M 0.532	M 1.353	0.575

STD4 3/18/2010 09:07:51

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		103.752%	0.129	33.380
%RSD		0.140	34.430	56.360
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		86.920	-6.046	0.000
%RSD		31.600	36.840	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		52.600	-4.525	T 104.750%
%RSD		29.960	453.000	T 1.665
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		101.467%	0.087	0.155
%RSD		1.092	248.800	38.630
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.083	0.587	39.700
%RSD		53.850	43.530	12.460
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.249	0.257	0.646
%RSD		8.971	29.170	16.990
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		-0.013	105.814%	0.270
%RSD		627.000	1.015	38.890
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.003	0.112	197.000
%RSD		287.500	48.390	0.978
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.189	6.455
%RSD		0.000	24.820	28.310
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.185	105.132%	M 199.300
%RSD		8.775	0.498	M 1.054
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.200	0.000	0.000
%RSD		16.360	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.440	0.219	108.793%
%RSD		11.230	9.545	0.496

ICV 3/18/2010 09:13:06 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.052%	97.739%	T 101.050%
%RSD		2.015	2.311	T 1.353
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		101.750%	96.904%	0.000
%RSD		2.101	2.493	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 99.654%	101.825%	T 104.518%
%RSD		T 0.986	1.100	T 1.490
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		100.889%	98.559%	100.967%
%RSD		0.445	2.723	1.443
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.800	T 101.875%	T 97.902%
%RSD		13.900	T 1.631	T 1.740
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		101.602%	103.183%	100.821%
%RSD		0.343	0.763	1.876
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.029%	98.579%	98.217%
%RSD		0.680	2.047	1.696
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.378	101.131%	103.456%
%RSD		20.180	3.132	0.225
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	102.640%	75.560
%RSD		0.000	1.278	95.250
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		102.086%	102.602%	102.193%
%RSD		1.270	0.523	0.879
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		99.430%	0.000	0.000
%RSD		1.912	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.830%	97.605%	100.148%
%RSD		0.556	0.624	0.801

ICB 3/18/2010 09:19:59 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		102.866%	0.014	1.441
%RSD		0.925	70.160	29.420
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		11.800	1.826	0.000
%RSD		43.980	83.430	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		5.045	-2.898	T 102.751%
%RSD		9.526	154.600	T 0.154
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		101.264%	-0.063	0.025
%RSD		0.689	279.000	88.960
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.034	0.026	2.364
%RSD		477.100	22.180	142.000
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.007	-0.045	-0.025
%RSD		297.500	73.240	173.800
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.047	101.954%	0.020
%RSD		190.700	1.050	304.300
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.022	0.034	0.140
%RSD		229.400	231.800	10.460
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.015	-0.140
%RSD		0.000	50.900	412.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.017	105.174%	0.028
%RSD		49.560	0.312	59.650
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.030	0.000	0.000
%RSD		22.850	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.192	0.018	108.425%
%RSD		8.513	68.710	1.216

CRI 3/18/2010 09:24:42 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.648%	97.370%	T 99.521%
%RSD		1.772	7.365	T 1.381
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		102.041%	90.380%	0.000
%RSD		1.823	8.080	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 98.788%	98.306%	T 101.706%
%RSD		T 0.943	0.508	T 0.895
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.175%	103.999%	102.929%
%RSD		0.725	1.046	3.849
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.051	77.167%	85.024%
%RSD		469.700	0.753	2.761
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		102.247%	100.477%	112.925%
%RSD		8.273	1.827	4.311
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		113.117%	98.101%	94.715%
%RSD		4.829	1.064	6.881
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.020	89.534%	101.238%
%RSD		58.570	24.490	1.303
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	107.823%	-1.433
%RSD		0.000	2.539	236.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		117.633%	103.591%	99.274%
%RSD		4.294	1.198	4.376
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		104.272%	0.000	0.000
%RSD		8.044	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		104.139%	93.987%	107.476%
%RSD		0.480	1.012	0.418

CRIQ 3/18/2010 09:34:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		96.444%	95.965%	T 101.016%
%RSD		3.500	2.997	T 2.514
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		107.286%	85.094%	0.000
%RSD		4.414	5.158	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 98.281%	99.070%	T 102.331%
%RSD		T 1.071	1.761	T 0.885
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		94.899%	99.401%	96.448%
%RSD		1.393	6.014	3.276
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.058	98.492%	96.944%
%RSD		239.900	0.700	1.307
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		94.223%	105.517%	109.773%
%RSD		0.868	1.965	1.874
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.586%	93.839%	99.967%
%RSD		1.440	1.184	4.528
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.010	99.887%	100.507%
%RSD		428.100	14.960	3.375
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	104.214%	-0.362
%RSD		0.000	3.994	812.900
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		97.978%	99.360%	97.037%
%RSD		4.802	1.082	2.573
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		93.431%	0.000	0.000
%RSD		2.781	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		93.276%	91.611%	104.726%
%RSD		1.285	1.252	1.222

ICSA 3/18/2010 09:39:06 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.344%	-0.018	T 52430.000
%RSD		3.442	7.312	T 3.590
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		51610.000	M 50380.000	0.000
%RSD		0.545	M 1.026	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 50040.000	52250.000	T 98.608%
%RSD		T 1.622	0.614	T 0.747
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.199%	-0.128	0.545
%RSD		1.865	153.300	3.433
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.005	-0.237	TM 49720.000
%RSD		2177.000	1.710	TM 1.182
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.037	0.244	0.018
%RSD		46.420	36.220	197.300
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.193	95.894%	-0.026
%RSD		57.520	1.003	232.000
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.004	-0.122	M 1024.000
%RSD		431.100	56.910	M 0.655
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.031	29.210
%RSD		0.000	43.120	29.940
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.045	98.227%	0.086
%RSD		132.700	2.058	38.990
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.010	0.000	0.000
%RSD		371.700	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.031	0.059	98.968%
%RSD		10.750	7.182	0.830

ICSAB 3/18/2010 09:43:45 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.813%	94.258%	T 105.675%
%RSD		2.572	3.262	T 2.584
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		102.713%	M 99.079%	0.000
%RSD		1.794	M 1.892	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 101.059%	103.762%	T 100.411%
%RSD		T 1.169	0.310	T 1.087
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.681%	98.951%	99.947%
%RSD		1.029	0.701	0.879
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.528	104.015%	TM 99.163%
%RSD		20.030	0.186	TM 1.843
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		96.633%	97.053%	95.452%
%RSD		0.686	0.385	0.741
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		100.401%	96.390%	93.350%
%RSD		1.361	0.862	0.883
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.295	95.128%	M 1137.000
%RSD		68.080	2.805	M 0.724
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	100.170%	56.960
%RSD		0.000	1.471	31.840
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.006%	97.828%	100.173%
%RSD		1.019	0.739	1.310
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.900%	0.000	0.000
%RSD		0.809	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.242%	96.649%	101.748%
%RSD		0.649	0.774	0.779

CCV 3/18/2010 09:50:37 QC Status: PASS (Initial: PASS)

User Pre -dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		93.390%	97.620%	T 107.157%
%RSD		1.556	1.933	T 2.228
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		100.870%	101.024%	0.000
%RSD		1.029	0.517	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 100.743%	102.261%	T 103.769%
%RSD		T 1.581	0.692	T 0.424
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		92.779%	98.307%	100.054%
%RSD		1.418	0.517	0.912
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.092	T 101.960%	T 99.264%
%RSD		12.030	T 1.256	T 0.449
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.334%	101.727%	101.062%
%RSD		1.983	0.970	2.203
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.851%	90.972%	98.599%
%RSD		2.699	1.870	0.557
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.402	99.651%	106.251%
%RSD		14.590	1.864	1.694
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.431%	88.370
%RSD		0.000	1.160	28.810
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.299%	97.335%	99.815%
%RSD		0.243	1.549	1.228
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.731%	0.000	0.000
%RSD		1.721	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		99.237%	96.904%	100.361%
%RSD		0.930	0.715	0.529

CCB 3/18/2010 09:57:26 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.267%	0.019	7.580
%RSD		0.982	30.190	8.291
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		6.317	2.790	0.000
%RSD		95.680	143.500	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		7.559	5.552	T 96.970%
%RSD		15.460	32.870	T 0.442
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		92.072%	-0.009	0.008
%RSD		0.686	865.400	550.900
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.079	0.047	4.543
%RSD		24.860	13.470	31.800
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.022	-0.014	0.031
%RSD		41.140	119.400	99.340
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.230	93.717%	0.014
%RSD		88.670	1.659	489.500
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.035	-0.066	0.547
%RSD		36.890	28.210	1.641
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.019	0.284
%RSD		0.000	60.270	187.200
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.023	98.580%	0.036
%RSD		63.550	0.934	1.903
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.033	0.000	0.000
%RSD		135.800	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.223	0.026	109.127%
%RSD		3.193	24.310	0.776

LV3LMA 3/18/2010 10:02:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		84.490%	111.100	T 11210.000
%RSD		2.302	2.316	T 2.236
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		42870.000	M 131400.000	0.000
%RSD		1.423	M 1.933	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 20790.000	84340.000	T 109.538%
%RSD		T 0.348	1.041	T 1.270
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.180%	M 299.700	M 726.000
%RSD		2.542	M 1.488	M 1.416
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		38.850	TM 6387.000	TM 295900.000
%RSD		5.188	TM 0.847	TM 0.855
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		183.400	M 455.400	M 272.000
%RSD		0.863	M 0.922	M 0.812
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		M 734.900	98.324%	190.400
%RSD		M 1.559	1.734	1.658
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.171	105.200	131.100
%RSD		97.140	4.108	0.231
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	104.700	39.300
%RSD		0.000	0.555	189.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		105.800	102.081%	106.500
%RSD		0.793	0.716	1.089
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		M 792.200	0.000	0.000
%RSD		M 0.193	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		103.100	TM 263.400	104.005%
%RSD		1.240	TM 1.358	1.095

LV3LMD/10 3/18/2010 10:08:59 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		99.509%	9.705	T 991.300
%RSD		3.526	4.291	T 1.045
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		4086.000	M 14440.000	0.000
%RSD		1.189	M 0.532	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1937.000	6281.000	T 109.223%
%RSD		T 0.224	1.280	T 0.990
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.802%	29.380	70.440
%RSD		0.964	1.763	0.803
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.133	T 562.800	T 25800.000
%RSD		27.570	T 0.592	T 1.632
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		17.560	46.810	27.530
%RSD		0.725	2.236	3.206
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		83.170	100.748%	18.090
%RSD		0.940	1.532	0.767
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.002	9.286	10.560
%RSD		3335.000	6.554	2.313
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	9.510	-4.198
%RSD		0.000	2.948	324.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		9.668	106.170%	2.833
%RSD		3.167	0.555	3.065
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		72.800	0.000	0.000
%RSD		1.126	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		8.632	25.970	112.383%
%RSD		0.875	1.279	0.625

LV3KM/10 3/18/2010 10:15:50 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.377%	0.118	-4.056
%RSD		0.962	5.663	24.000
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		4149.000	M 2225.000	0.000
%RSD		1.605	M 0.984	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		240.400	16340.000	T 102.970%
%RSD		0.479	0.740	T 0.379
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		96.503%	5.168	4.514
%RSD		1.236	9.135	1.605
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.054	T 217.500	11610.000
%RSD		652.700	T 0.805	0.668
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		3.309	7.465	12.370
%RSD		5.280	5.078	4.102
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		49.750	97.279%	6.993
%RSD		2.260	0.963	4.273
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.006	0.188	0.666
%RSD		239.600	74.690	7.052
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.024	-1.884
%RSD		0.000	39.930	155.100
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.073	104.469%	0.102
%RSD		23.040	1.111	40.950
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		14.220	0.000	0.000
%RSD		2.159	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.150	6.343	111.081%
%RSD		5.561	0.936	1.845

LV3KN/10 3/18/2010 10:20:28 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		93.173%	0.103	5.820
%RSD		2.313	7.735	14.690
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2385.000	M 2164.000	0.000
%RSD		5.827	M 2.253	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		253.100	23620.000	T 100.299%
%RSD		0.778	0.802	T 0.052
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		93.686%	4.628	4.265
%RSD		0.432	1.524	1.749
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.007	T 253.700	11360.000
%RSD		1200.000	T 0.470	1.367
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		2.747	7.947	10.400
%RSD		6.879	6.633	1.065
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		42.700	94.379%	6.994
%RSD		0.881	1.567	1.900
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.018	0.472	0.732
%RSD		221.900	35.890	13.940
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.013	-3.326
%RSD		0.000	86.050	44.770
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.165	102.016%	0.074
%RSD		14.590	1.348	29.580
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		13.290	0.000	0.000
%RSD		1.832	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.131	6.386	109.137%
%RSD		3.110	0.667	0.094

LV3KP/10 3/18/2010 10:25:13 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.923%	0.116	12.450
%RSD		3.678	6.669	23.470
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2655.000	M 1982.000	0.000
%RSD		1.729	M 0.351	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		252.600	49990.000	T 100.022%
%RSD		1.246	0.570	T 0.338
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		93.779%	4.093	3.247
%RSD		1.624	3.438	2.331
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.069	T 392.100	11760.000
%RSD		247.800	T 0.773	0.834
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		2.733	7.269	9.580
%RSD		3.316	3.285	1.129
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		35.290	94.298%	6.643
%RSD		0.952	0.461	4.166
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.007	0.809	0.450
%RSD		427.300	33.300	6.933
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.013	0.652
%RSD		0.000	63.310	224.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.021	102.058%	0.071
%RSD		57.650	0.339	27.360
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		11.440	0.000	0.000
%RSD		2.926	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.072	5.377	107.604%
%RSD		5.609	1.701	0.601

LV3KQ/10 3/18/2010 10:29:51 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.082%	0.099	-3.861
%RSD		2.262	4.780	14.700
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2602.000	M 2375.000	0.000
%RSD		3.734	M 0.832	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		273.500	14410.000	T 99.012%
%RSD		1.115	1.584	T 0.615
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.920%	4.420	4.119
%RSD		0.114	2.641	2.317
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.044	T 213.800	11190.000
%RSD		154.400	T 0.473	1.958
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		2.836	7.422	11.900
%RSD		1.848	2.160	1.576
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		38.590	94.817%	5.345
%RSD		3.701	0.229	3.063
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.052	0.589	0.419
%RSD		53.210	17.590	17.730
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.017	-2.450
%RSD		0.000	44.280	83.350
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.002	100.743%	0.045
%RSD		163.900	0.186	17.980
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		11.060	0.000	0.000
%RSD		1.638	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.056	6.522	107.625%
%RSD		14.740	2.012	0.714

LV3KR/10 3/18/2010 10:34:30 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		89.388%	0.116	0.290
%RSD		3.157	12.230	140.100
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2887.000	M 2258.000	0.000
%RSD		2.378	M 1.425	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		290.500	24520.000	T 96.553%
%RSD		0.633	0.467	T 0.616
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		90.773%	4.413	3.789
%RSD		0.930	8.120	0.280
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.115	T 214.000	12470.000
%RSD		103.800	T 1.359	1.325
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		2.740	7.971	10.800
%RSD		2.229	4.842	2.605
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		48.540	91.709%	6.300
%RSD		0.555	0.454	2.683
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.038	0.287	0.642
%RSD		97.880	79.090	16.080
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.012	-0.765
%RSD		0.000	17.650	70.810
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.014	97.994%	0.080
%RSD		136.700	0.351	39.140
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		14.270	0.000	0.000
%RSD		1.530	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.053	4.713	105.396%
%RSD		18.960	0.784	0.736

LV3KT/10 3/18/2010 10:39:10 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		96.358%	0.453	6.905
%RSD		1.735	4.449	15.680
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3000.000	M 12900.000	0.000
%RSD		4.242	M 0.998	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1129.000	1756.000	T 100.558%
%RSD		T 1.193	1.912	T 0.117
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		97.837%	18.320	16.180
%RSD		0.754	2.529	0.286
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.769	T 162.500	T 23530.000
%RSD		34.090	T 1.159	T 2.393
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		6.758	19.920	17.150
%RSD		1.744	2.362	2.254
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		51.450	98.833%	9.920
%RSD		0.337	1.170	2.987
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.012	0.627	0.953
%RSD		586.900	23.810	8.325
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.015	-3.764
%RSD		0.000	12.850	97.650
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.003	103.250%	0.045
%RSD		190.000	0.944	3.491
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		36.720	0.000	0.000
%RSD		1.639	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.130	10.200	110.400%
%RSD		3.904	1.048	0.778

LV3KW/10 3/18/2010 10:43:48 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.247%	0.635	66.940
%RSD		2.265	4.926	2.199
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		6411.000	M 12340.000	0.000
%RSD		1.549	M 1.829	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 2076.000	22350.000	T 97.988%
%RSD		T 1.055	0.326	T 0.828
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.811%	20.280	17.980
%RSD		1.465	2.548	1.655
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.783	T 362.600	T 23460.000
%RSD		46.100	T 0.924	T 0.743
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		11.180	27.740	17.720
%RSD		2.707	0.770	1.450
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		56.720	92.665%	8.922
%RSD		1.611	1.615	1.569
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.005	0.851	1.013
%RSD		425.200	39.990	5.249
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.017	-2.297
%RSD		0.000	40.850	136.800
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.031	98.995%	0.040
%RSD		40.280	0.840	18.690
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		74.410	0.000	0.000
%RSD		2.110	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.151	9.418	106.865%
%RSD		6.697	1.421	0.274

LV3KX/10 3/18/2010 10:48:26 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		91.166%	0.190	23.630
%RSD		3.020	10.110	7.993
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3297.000	M 3794.000	0.000
%RSD		4.516	M 1.639	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 697.900	11490.000	T 96.945%
%RSD		T 1.755	1.835	T 0.853
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		91.847%	7.552	5.920
%RSD		1.738	4.571	2.120
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.238	T 211.300	12760.000
%RSD		33.790	T 0.073	2.113
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		4.228	10.200	14.260
%RSD		6.271	4.529	0.902
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		49.440	94.153%	8.519
%RSD		0.582	0.718	3.041
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.021	0.488	1.131
%RSD		60.810	11.680	3.344
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.017	-0.377
%RSD		0.000	64.640	1059.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		-0.003	98.984%	0.039
%RSD		454.400	0.807	20.370
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		21.360	0.000	0.000
%RSD		1.871	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.068	7.018	107.178%
%RSD		10.860	1.647	0.355

CCV 1 3/18/2010 10:53:06 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		90.060%	97.842%	T 105.305%
%RSD		2.004	2.467	T 1.935
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		101.769%	100.598%	0.000
%RSD		1.924	0.737	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 100.529%	101.197%	T 98.977%
%RSD		T 2.169	1.160	T 0.187
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		90.972%	98.935%	100.756%
%RSD		0.682	1.026	0.541
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.445	T 101.418%	T 99.889%
%RSD		11.730	T 0.723	T 0.830
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		101.632%	101.414%	101.496%
%RSD		0.429	0.418	2.113
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		103.303%	90.133%	97.781%
%RSD		1.758	0.953	0.464
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.339	99.976%	104.088%
%RSD		15.130	2.505	0.996
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.554%	96.370
%RSD		0.000	0.416	52.560
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		101.527%	95.539%	99.800%
%RSD		1.716	0.294	1.200
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		97.332%	0.000	0.000
%RSD		2.063	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.577%	97.652%	97.977%
%RSD		0.515	1.086	0.252

CCB 1 3/18/2010 10:59:57 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		94.876%	0.026	8.176
%RSD		3.505	44.460	35.160
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		15.900	2.379	0.000
%RSD		55.260	49.240	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		8.500	2.885	T 98.722%
%RSD		2.907	452.600	T 0.407
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		95.361%	-0.015	0.055
%RSD		2.015	612.800	39.200
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.210	0.062	5.163
%RSD		57.990	11.690	29.760
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.018	-0.002	0.027
%RSD		81.280	975.700	140.800
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.421	96.732%	-0.080
%RSD		84.290	0.176	53.990
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.060	0.004	0.177
%RSD		79.840	2246.000	30.560
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.014	0.254
%RSD		0.000	46.080	0.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.015	101.734%	0.024
%RSD		91.260	0.566	51.450
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		-0.002	0.000	0.000
%RSD		3039.000	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.194	0.027	109.016%
%RSD		5.059	39.190	0.186

LV3K3/10 3/18/2010 11:04:40 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		96.317%	0.571	12.970
%RSD		1.573	6.086	13.570
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3942.000	M 10600.000	0.000
%RSD		4.117	M 0.606	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1283.000	1480.000	T 100.046%
%RSD		T 1.600	1.235	T 0.986
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		95.925%	16.640	15.330
%RSD		0.717	1.040	2.325
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.402	T 361.900	T 23830.000
%RSD		45.390	T 0.500	T 1.200
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		11.310	33.680	20.180
%RSD		0.795	3.409	0.750
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		63.920	97.230%	11.580
%RSD		2.360	1.829	1.372
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.044	0.631	1.039
%RSD		29.630	61.560	6.338
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.019	-4.582
%RSD		0.000	15.660	76.640
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.027	101.938%	0.073
%RSD		84.320	1.151	5.421
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		83.030	0.000	0.000
%RSD		1.218	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.209	10.560	108.982%
%RSD		5.091	1.719	0.394

LV3K7/10 3/18/2010 11:09:19 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		94.787%	0.378	-6.864
%RSD		2.692	4.314	12.000
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1547.000	M 9263.000	0.000
%RSD		7.070	M 1.094	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 600.000	629.600	T 105.035%
%RSD		T 0.864	0.223	T 0.586
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.193%	18.540	11.360
%RSD		1.180	1.796	1.867
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.510	T 822.600	T 17990.000
%RSD		85.370	T 0.962	T 1.066
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		8.294	8.944	6.214
%RSD		2.591	3.817	2.997
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		41.090	100.499%	8.130
%RSD		2.626	2.118	7.823
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.002	0.462	1.228
%RSD		512.900	20.150	8.019
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.003	-0.499
%RSD		0.000	73.080	393.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.070	105.063%	0.049
%RSD		15.960	0.842	36.610
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		44.100	0.000	0.000
%RSD		2.584	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.149	13.380	110.513%
%RSD		1.470	0.527	0.716

LV3K8/10 3/18/2010 11:13:57 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		102.082%	0.493	4.040
%RSD		2.098	2.774	53.000
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3073.000	M 12410.000	0.000
%RSD		2.455	M 0.535	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 876.400	954.200	T 109.434%
%RSD		T 1.240	1.406	T 0.448
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		102.744%	18.740	16.480
%RSD		1.046	0.757	0.662
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.708	T 132.000	T 23080.000
%RSD		24.260	T 1.122	T 0.904
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		7.276	20.940	16.310
%RSD		2.637	1.995	2.668
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		47.230	103.067%	10.740
%RSD		0.362	1.224	1.685
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.027	0.653	1.108
%RSD		68.570	17.320	5.186
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.010	-3.989
%RSD		0.000	48.810	21.620
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.003	106.871%	0.035
%RSD		663.900	0.450	20.450
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		60.780	0.000	0.000
%RSD		1.396	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.162	9.662	111.594%
%RSD		1.699	0.495	0.980

LV3K9/10 3/18/2010 11:18:14 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.795%	0.761	65.800
%RSD		2.581	4.081	0.761
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2788.000	M 9761.000	0.000
%RSD		2.315	M 0.792	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 743.100	6789.000	T 105.881%
%RSD		T 0.401	0.674	T 0.822
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		98.266%	16.250	82.620
%RSD		0.603	2.770	0.415
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.661	T 817.400	T 23340.000
%RSD		12.050	T 0.850	T 2.304
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		8.858	46.800	39.060
%RSD		1.080	1.702	1.737
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		79.580	101.886%	10.530
%RSD		0.416	0.583	1.822
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.044	1.151	2.263
%RSD		72.260	9.169	4.115
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.009	-3.831
%RSD		0.000	63.620	30.470
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.200	102.844%	0.132
%RSD		26.660	0.234	13.300
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		81.590	0.000	0.000
%RSD		1.869	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.135	18.290	108.576%
%RSD		6.180	0.638	0.612

LV3LA/10 3/18/2010 11:22:38 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		95.975%	0.956	85.050
%RSD		2.314	2.217	3.443
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		4194.000	M 13670.000	0.000
%RSD		1.560	M 0.462	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1143.000	12470.000	T 106.508%
%RSD		T 1.360	0.516	T 0.708
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		98.181%	17.990	98.780
%RSD		0.422	4.379	0.340
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.723	T 578.000	T 23380.000
%RSD		16.410	T 0.971	T 0.849
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		9.866	56.680	21.680
%RSD		1.065	1.143	0.788
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		71.950	99.235%	10.120
%RSD		2.264	0.935	1.013
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.028	1.084	2.128
%RSD		54.930	18.880	3.629
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.007	0.278
%RSD		0.000	58.830	1116.000
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.113	103.328%	0.125
%RSD		22.540	0.939	22.370
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		92.630	0.000	0.000
%RSD		1.073	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.159	29.270	108.186%
%RSD		3.137	1.662	0.357

LV3LC/10 3/18/2010 11:27:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		98.287%	0.866	55.820
%RSD		2.987	4.560	3.140
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		4196.000	M 11940.000	0.000
%RSD		3.018	M 0.125	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 889.100	10690.000	T 104.408%
%RSD		T 0.548	0.472	T 0.905
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		98.579%	17.560	66.120
%RSD		0.586	6.032	0.535
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		3.222	T 476.900	T 22710.000
%RSD		25.380	T 0.660	T 1.416
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		9.075	43.900	25.240
%RSD		1.683	0.478	2.033
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		64.290	100.270%	10.610
%RSD		1.501	0.148	1.887
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.033	0.986	2.474
%RSD		74.310	16.580	4.288
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.002	-0.293
%RSD		0.000	261.400	237.400
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.108	103.245%	0.114
%RSD		50.830	0.206	24.980
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		84.720	0.000	0.000
%RSD		1.763	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.141	19.840	108.481%
%RSD		4.381	1.466	0.443

LV3LE/10 3/18/2010 11:31:42 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		99.465%	0.581	9.696
%RSD		2.515	6.918	12.090
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2345.000	M 10750.000	0.000
%RSD		1.556	M 1.509	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 867.800	3465.000	T 107.818%
%RSD		T 1.821	1.419	T 1.563
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		100.783%	17.180	93.140
%RSD		0.260	4.846	0.626
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		5.167	T 626.900	T 23380.000
%RSD		19.400	T 0.831	T 1.431
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		9.172	53.730	14.210
%RSD		2.448	1.923	3.405
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		52.460	103.298%	10.260
%RSD		3.606	1.199	2.319
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.037	0.772	2.389
%RSD		89.940	26.140	4.686
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.011	-3.638
%RSD		0.000	50.810	68.710
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.349	104.937%	0.286
%RSD		7.823	0.503	13.390
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		73.440	0.000	0.000
%RSD		0.872	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.156	16.740	109.583%
%RSD		7.897	0.726	0.718

LV3LJ/10 3/18/2010 11:36:18 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		97.957%	0.789	38.420
%RSD		1.476	2.048	4.122
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		3645.000	M 13400.000	0.000
%RSD		4.319	M 0.788	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1297.000	5683.000	T 107.047%
%RSD		T 0.952	0.793	T 1.452
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		99.900%	20.210	56.800
%RSD		0.482	2.634	1.288
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		2.755	T 672.700	T 25750.000
%RSD		7.913	T 0.993	T 1.625
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		11.390	40.080	21.860
%RSD		1.187	2.559	1.108
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		72.840	99.313%	13.310
%RSD		1.298	0.196	2.403
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.061	1.022	1.731
%RSD		69.720	7.606	3.200
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.006	-1.353
%RSD		0.000	40.080	329.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.135	102.875%	0.130
%RSD		34.410	1.725	3.772
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		99.550	0.000	0.000
%RSD		0.820	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.160	16.080	107.599%
%RSD		5.140	0.646	0.847

LV3LT/10 3/18/2010 11:40:53 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		98.793%	0.429	25.750
%RSD		2.911	7.077	2.477
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		1984.000	M 5911.000	0.000
%RSD		3.052	M 0.537	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 612.000	6830.000	T 104.345%
%RSD		T 2.584	1.246	T 1.006
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		96.387%	12.220	15.380
%RSD		0.767	2.083	0.878
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		1.002	T 282.700	T 14260.000
%RSD		14.130	T 0.693	T 2.161
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		5.267	14.440	12.510
%RSD		2.768	2.008	3.678
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		42.040	98.816%	7.150
%RSD		1.644	1.341	1.893
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.033	0.724	1.007
%RSD		154.700	13.920	7.494
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.013	0.481
%RSD		0.000	73.490	724.700
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.035	101.615%	0.257
%RSD		15.660	0.953	15.080
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		45.460	0.000	0.000
%RSD		0.615	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.087	11.010	107.507%
%RSD		2.850	0.974	0.896

LV3LW/10 3/18/2010 11:45:31 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		100.822%	0.655	40.610
%RSD		1.861	7.279	4.080
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		2779.000	M 12370.000	0.000
%RSD		1.246	M 1.310	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 1205.000	3134.000	T 106.907%
%RSD		T 1.590	1.058	T 0.420
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		100.573%	18.910	15.840
%RSD		1.420	4.830	2.455
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		0.631	T 412.500	T 21150.000
%RSD		88.240	T 1.240	T 1.656
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		13.730	20.070	18.290
%RSD		1.100	0.476	2.573
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		75.850	103.161%	10.790
%RSD		0.793	0.095	2.535
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		0.085	1.049	1.112
%RSD		22.300	23.890	10.650
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	-0.008	-1.560
%RSD		0.000	78.870	251.300
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.258	104.922%	0.668
%RSD		44.900	0.896	3.475
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		72.460	0.000	0.000
%RSD		1.533	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.125	22.330	108.726%
%RSD		10.110	1.106	0.037

CCV 2 3/18/2010 11:50:08 QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		92.433%	96.734%	T 103.379%
%RSD		2.551	2.792	T 1.716
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		102.353%	104.018%	0.000
%RSD		0.767	2.692	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		T 99.416%	101.145%	T 100.934%
%RSD		T 0.136	0.423	T 0.033
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		92.974%	99.014%	100.515%
%RSD		1.034	1.119	0.622
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		4.487	T 101.875%	T 99.740%
%RSD		15.040	T 0.703	T 1.570
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		100.933%	101.713%	100.475%
%RSD		1.208	0.798	0.617
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		102.184%	92.645%	97.448%
%RSD		1.777	0.547	1.120
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.251	95.745%	103.786%
%RSD		79.500	1.048	0.607
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	101.579%	48.030
%RSD		0.000	0.247	115.600
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		100.906%	97.245%	99.813%
%RSD		0.990	1.077	1.597
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		98.798%	0.000	0.000
%RSD		0.413	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		98.939%	97.552%	98.635%
%RSD		0.201	0.652	0.919

CCB 2 3/18/2010 11:57:00 QC Status: FAIL (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	9Be	23Na
		ppb	ppb	ppb
x		95.226%	0.035	14.780
%RSD		3.245	4.095	8.170
Run	**Time**	**25Mg**	**27Al**	**35Cl**
		ppb	ppb	ppb
x		23.190	5.557	0.000
%RSD		40.730	33.640	0.000
Run	**Time**	**39K**	**43Ca**	**45Sc**
		ppb	ppb	ppb
x		14.800	11.450	T 100.000%
%RSD		2.998	91.190	T 1.072
Run	**Time**	**45Sc**	**51V**	**52Cr**
		ppb	ppb	ppb
x		96.050%	-0.055	0.037
%RSD		1.197	381.000	78.300
Run	**Time**	**53Cl O**	**55Mn**	**56Fe**
		ppb	ppb	ppb
x		-0.029	0.148	13.690
%RSD		303.700	4.065	11.370
Run	**Time**	**59Co**	**60Ni**	**65Cu**
		ppb	ppb	ppb
x		0.029	0.036	0.085
%RSD		16.740	66.200	47.180
Run	**Time**	**66Zn**	**72Ge**	**75As**
		ppb	ppb	ppb
x		0.279	97.660%	0.072
%RSD		7.029	1.096	126.100
Run	**Time**	**77Ar Cl**	**78Se**	**95Mo**
		ppb	ppb	ppb
x		-0.034	0.003	0.157
%RSD		65.840	4110.000	24.860
Run	**Time**	**105Pd**	**107Ag**	**108Mo O**
		ppb	ppb	ppb
x		0.000	0.039	-0.409
%RSD		0.000	29.420	220.500
Run	**Time**	**111Cd**	**115In**	**121Sb**
		ppb	ppb	ppb
x		0.035	101.318%	0.051
%RSD		104.300	0.467	40.800
Run	**Time**	**137Ba**	**159Tb**	**165Ho**
		ppb	ppb	ppb
x		0.037	0.000	0.000
%RSD		35.040	0.000	0.000
Run	**Time**	**205Tl**	**208Pb**	**209Bi**
		ppb	ppb	ppb
x		0.211	0.053	109.066%
%RSD		4.595	11.620	0.344

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

Metals Internal Chain of Custody

Date Prepared: 02/26/10 **Prep Analyst:** Lisa Mcgall

Laboratory Sample ID			Lab ID	Method	Analysis Date	Analyst	Instrument
A0B250463	9		LV3K1	SW846 6020	03/01/10	Karen Counts	I8
A0B250463	9	S	LV3K1	SW846 6020	03/01/10	Karen Counts	I8
A0B250463	9	D	LV3K1	SW846 6020	03/01/10	Karen Counts	I8
A0B250463	9		LV3K1	SW846 7471A	03/03/10	Roger Toth	H1
A0B250463	9	S	LV3K1	SW846 7471A	03/03/10	Roger Toth	H1
A0B250463	9	D	LV3K1	SW846 7471A	03/03/10	Roger Toth	H1

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

North Canton

Metals Internal Chain of Custody

Date Prepared: 03/02/10 **Prep Analyst:** Lisa Mcgall

Laboratory Sample ID		Lab ID	Method	Analysis Date	Analyst	Instrument
A0B250463	1	LV3KM	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	1	LV3KM	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	1	LV3KM	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	2	LV3KN	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	2	LV3KN	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	2	LV3KN	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	3	LV3KP	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	3	LV3KP	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	3	LV3KP	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	4	LV3KQ	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	4	LV3KQ	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	4	LV3KQ	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	5	LV3KR	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	5	LV3KR	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	5	LV3KR	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	6	LV3KT	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	6	LV3KT	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	6	LV3KT	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	7	LV3KW	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	7	LV3KW	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	7	LV3KW	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	8	LV3KX	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	8	LV3KX	SW846 6020	03/18/10	Karen Counts	I8

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

2000

North Canton

Metals Internal Chain of Custody

Date Prepared: 03/02/10 **Prep Analyst:** Lisa Mcgall

Laboratory Sample ID		Lab ID	Method	Analysis Date	Analyst	Instrument
A0B250463	8	LV3KX	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	10	LV3K3	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	10	LV3K3	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	10	LV3K3	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	11	LV3K7	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	11	LV3K7	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	11	LV3K7	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	12	LV3K8	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	12	LV3K8	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	12	LV3K8	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	13	LV3K9	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	13	LV3K9	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	13	LV3K9	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	14	LV3LA	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	14	LV3LA	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	14	LV3LA	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	15	LV3LC	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	15	LV3LC	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	15	LV3LC	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	16	LV3LE	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	16	LV3LE	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	16	LV3LE	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	18	LV3LJ	SW846 6020	03/17/10	Karen Counts	I8

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

2001

North Canton

Metals Internal Chain of Custody

Date Prepared: 03/02/10 **Prep Analyst:** Lisa Mcgall

Laboratory Sample ID			Lab ID	Method	Analysis Date	Analyst	Instrument
A0B250463	18		LV3LJ	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	18		LV3LJ	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	20		LV3LM	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	20	S	LV3LM	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	20	D	LV3LM	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	20	D	LV3LM	SW846 6020	03/18/10	Karen Counts	I8
A0B250463	20		LV3LM	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	20	S	LV3LM	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	20	D	LV3LM	SW846 7471A	03/04/10	Roger Toth	H1
A0B250463	22		LV3LT	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	23		LV3LW	SW846 6020	03/17/10	Karen Counts	I8
A0B250463	24		LV3LX	SW846 6020	03/17/10	Karen Counts	I8

2002

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

METALS PREPARATION SUMMARY

Preparation Type	Matrix	Amount of Standard added to LCS & MS/MSD		Initial Sample Vol/Wt	Final Sample Volume
		Amount	Standard name		
ICP	water	1 mL 1 mL 1.0 mL	Ag ICP-1 ICP-2A	50 mL	50 mL
ICPMS	water	0.5ml 0.5ml	ICPMS-1 ICPMS-2	50 mL	50 mL
Hg - CVAA	water	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL
Hg - CVAF (low level)	water	0.2 mL (LCS/MS/MSD)	HG ICAL	40 ml	40 ml
ICP	solid	2 mL 2 mL 2 mL	Ag ICP-1 ICP-2A	1.00 +/- .02g	100 mL
ICPMS	solid	1ml 1ml	ICPMS-1 ICPMS-2	1.00 +/- .02g	100ml
Hg - CVAA	solid	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	0.60 +/- .01g	100 mL
ICP	TCLP	1 mL (LCS) 1 mL(LCS)	Ag ICP-1	50 mL	50 mL
ICP	TCLP	0.5 mL(MS/MSD)	TCLP Spike I RCRA	50 mL	50 mL
ICP	TCLP	1 mL(MS/MSD)	TCLP Spike II Non-RCRA	50 mL	50 mL
Hg - CVAA	TCLP	5 mL (LCS) 5 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL

Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.0002 ppm		0.2 mL	HG-2	0.1 ppm
0.0005 ppm		0.5 mL	HG-2	0.1 ppm
0.001 ppm		1 mL	HG-2	0.1 ppm
0.005 ppm		5 mL	HG-2	0.1 ppm
0.010 ppm		10 mL	HG-2	0.1 ppm
ICV Preparation				
0.0025 ppm		2.5 mL	HG-1	0.1 ppm
CCV Preparation:				
0.005 ppm		5 mL	HG-2	0.1 ppm

Low Level Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.5 ppt		20 ul	HG ICAL	1.0 ppb
1.0 ppt		40 ul	HG ICAL	1.0 ppb
2 ppt		80 ul	HG ICAL	1.0 ppb
5 ppt		200 ul	HG ICAL	1.0 ppb
10 ppt		400 ul	HG ICAL	1.0 ppb
25 ppt		1000 ul	HG ICAL	1.0 ppb
ICV Preparation				
5 ppt		200 ul	HG ICV	1.0 ppb
CCV Preparation:				
5 ppt		200 ul	HG ICAL	1.0 ppb

SPIKING STANDARD DEFINITIONS

Elements	Ag	ICP-1	ICP-2A	ICPMS-1	ICPMS-2	HG-1	HG-2	HG ICAL	HG ICV	TCLP Spike I	TCLP Spike II
Ag	2.5 ppm			10ppm						100 ppm	
Al		100 ppm			1000ppm						100 ppm
As		100 ppm		10ppm						500 ppm	
Ba		100 ppm		10ppm						5000 ppm	
Be		2.5 ppm		10ppm							2.5 ppm
Cd		2.5 ppm		10ppm						100 ppm	
Ca			2500 ppm		1000ppm						
Co		25 ppm		10ppm							25 ppm
Cr		10 ppm		10ppm						500 ppm	
Cu		12.5 ppm		10ppm							12.5 ppm
Fe		50 ppm			1000ppm						50 ppm
Hg						0.1 ppm	0.1 ppm	1.0 ppb	1.0 ppb		
K			2500 ppm		1000ppm						
Mg			2500 ppm		1000ppm						
Mn		25 ppm		10ppm							25 ppm
Na			2500 ppm		1000ppm						
Ni		25 ppm		10ppm							25 ppm
Pb		25 ppm		10ppm						500 ppm	
Sb		25 ppm		10ppm							25 ppm
Se		100 ppm		10ppm						100 ppm	
Tl		100 ppm		10ppm							100 ppm
V		25 ppm		10ppm							25 ppm
Zn		25 ppm		10ppm							25 ppm
B		50 ppm		10ppm							50 ppm
Sr		50 ppm		10ppm							
Mo		50 ppm		10ppm							50 ppm
W		50 ppm		10ppm							
Sn		100 ppm		10ppm							100 ppm
Zr		50 ppm		10ppm							
Ti		50 ppm		10ppm							

Test America North Canton
Revised 4/5/02
N:\Metals\Preplog.xls

DATE: 2:26-10

METALS PREPARATION REAGENTS/STANDARDS

Reagents and Standards listed on this form are used for the entire day's prep batches unless otherwise noted on the individual prep log.

REAGENT NAME	REAGENT NUMBER
1:1 HNO_3 (nitric acid)	OMR 127
1:1 HCl (hydrochloric acid)	OMR77
HNO_3 (nitric acid)	OMR 100
HCl (hydrochloric acid)	OMR102
$KMnO_4$ (potassium permanganate)	OMR94
$K_2S_2O_8$ (potassium persulfate)	OMR97
H_2O_2 (hydrogen peroxide)	9MR782
H_2SO_4 (sulfuric acid)	OMR91
HCl/HNO_3 (aqua regia)	OMR128

STANDARD NAME	STANDARD/LOT NUMBER
ICP-1	OA17
ICP-2A	OA46
RCRA	HPS0935009
non-RCRA	—
Ag	OB82
Hg	OB101
ICPMS-1	HPS0928714A HPS0928716B
ICPMS-2	HPS0930821

Filter Paper Lot #
K 11589107 A

Waters

Hg time in the water bath (HB1) 9:50
Hg time out of the water bath (HB1) 11:50

Solids

Hg time in the water bath (HB1) 11:15
Hg time out of the water bath (HB1) 11:45

Times listed are for the waters and solids for that day unless otherwise noted.

All solid batches were weighed on balance number B030 unless otherwise noted.

Daily Batch Level II Lisa McGall

Test America North Canton
Revision Date: 4/4/08
N:\Metals/Reagent2.doc

Hg Standard Curve Preparation Summary

Date: 2.26.10

Time In: 7:00

Time Out: 9:00

> H2O

Standard Concentrations	Standard Numbers
S0	
0.2 ppb	
CRA - 0.2 ppb	
0.5 ppb	
1.0 ppb	STD OB102
5.0 ppb	
10.0 ppb	
CCV - 5.0 ppb	
CCB	
ICV - 2.5 ppb	STD OB101
ICB	

DATE: 3-2-10

METALS PREPARATION REAGENTS/STANDARDS

Reagents and Standards listed on this form are used for the entire day's prep batches unless otherwise noted on the individual prep log.

REAGENT NAME	REAGENT NUMBER
1:1 HNO_3 (nitric acid)	OMR136
1:1 HCl (hydrochloric acid)	OMR77
HNO_3 (nitric acid)	OMR100
HCl (hydrochloric acid)	OMR102
$KMnO_4$ (potassium permanganate)	OMR94
$K_2S_2O_8$ (potassium persulfate)	OMR97
H_2O_2 (hydrogen peroxide)	OMR782
H_2SO_4 (sulfuric acid)	OMR91
HCl/HNO_3 (aqua regia)	OMR137

STANDARD NAME	STANDARD/LOT NUMBER
ICP-1	OA17
ICP-2A	OA46
RCRA	HPS0935009
non-RCRA	———
Ag	OB82
Hg	OC108
ICPMS-1	HPS0928714A HPS0928716B
ICPMS-2	HPS0930821

Filter Paper Lot # K 11589107 A

Waters

Hg time in the water bath (HB1) 10:50
Hg time out of the water bath (HB1) 12:50

8:00 } 0061-039, 040)
10:00 }

Solids

Hg time in the water bath (HB1) 11:25
Hg time out of the water bath (HB1) 11:55

Times listed are for the waters and solids for that day unless otherwise noted.

All solid batches were weighed on balance number B030 unless otherwise noted.

Daily Batch Level II Lisa P. McGee

Hg Standard Curve Preparation Summary

Date: 3.2.10

Time In: 7:10

Time Out: 9:10

> H2O

Standard Concentrations	Standard Numbers
S0	
0.2 ppb	
CRA - 0.2 ppb	
0.5 ppb	
1.0 ppb	STD OC109
5.0 ppb	
10.0 ppb	
CCV - 5.0 ppb	
CCB	
ICV - 2.5 ppb	STD OC108
ICB	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GENERAL CHEMISTRY DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Science Applications International Corp

Client Sample ID: ATASB-006-5127-SO

General Chemistry

Lot-Sample #...: A0B250463-001 **Work Order #...:** LV3KM **Matrix.....:** SO
Date Sampled...: 02/24/10 10:53 **Date Received..:** 02/25/10
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**89.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-006-6080-FD

General Chemistry

Lot-Sample #...: A0B250463-002 **Work Order #...:** LV3KN **Matrix.....:** SO
Date Sampled...: 02/24/10 10:53 **Date Received..:** 02/25/10
% Moisture.....: 9.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**90.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-006-5128-SO

General Chemistry

Lot-Sample #...: A0B250463-003 **Work Order #...:** LV3KP **Matrix.....:** SO
Date Sampled...: 02/24/10 11:15 **Date Received..:** 02/25/10
% Moisture.....: 5.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**94.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

General Chemistry

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	**0.97 B**	**5.6**	**mg/kg**	**MCAWW 353.2**	**03/04-03/09/10**	**0063289**
		Dilution Factor: 1		MDL.....: 0.88		
Percent Solids	**88.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

General Chemistry

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR **Matrix.....:** SO
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
% Moisture.....: 4.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.3	mg/kg	MCAWW 353.2	03/04-03/09/10	0063289
		Dilution Factor: 1		MDL.....: 0.82		
Percent Solids	**95.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASB-009-5137-SO

General Chemistry

Lot-Sample #...: A0B250463-006 **Work Order #...:** LV3KT **Matrix.....:** SO
Date Sampled...: 02/24/10 13:25 **Date Received..:** 02/25/10
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**78.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-009-5138-SO

General Chemistry

Lot-Sample #...: A0B250463-007 **Work Order #...:** LV3KW **Matrix.....:** SO
Date Sampled...: 02/24/10 13:50 **Date Received..:** 02/25/10
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**82.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-009-6081-FD

General Chemistry

Lot-Sample #...: A0B250463-008 **Work Order #...:** LV3KX **Matrix.....:** SO
Date Sampled...: 02/24/10 13:55 **Date Received..:** 02/25/10
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-010-5141-SO

General Chemistry

Lot-Sample #...: A0B250463-009 **Work Order #...:** LV3K1 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**76.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-010-5142-SO

General Chemistry

Lot-Sample #...: A0B250463-010 **Work Order #...:** LV3K3 **Matrix.....:** SO
Date Sampled...: 02/24/10 09:00 **Date Received..:** 02/25/10
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**83.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-011-5145-SO

General Chemistry

Lot-Sample #...: A0B250463-011 **Work Order #...:** LV3K7 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:00 **Date Received..:** 02/25/10
% Moisture.....: 29

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**70.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-011-5146-SO

General Chemistry

Lot-Sample #...: A0B250463-012 **Work Order #...:** LV3K8 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:24 **Date Received..:** 02/25/10
% Moisture.....: 22

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**78.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F15SS-036M-5427-SO

General Chemistry

Lot-Sample #...: A0B250463-013 **Work Order #...:** LV3K9 **Matrix.....:** SO
Date Sampled...: 02/24/10 14:00 **Date Received..:** 02/25/10
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**
	Dilution Factor: 1			MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: F15SS-035M-5428-SO

General Chemistry

Lot-Sample #...: A0B250463-014 **Work Order #...:** LV3LA **Matrix.....:** SO
Date Sampled...: 02/24/10 12:00 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F15SS-035M-6121-FD

General Chemistry

Lot-Sample #...: A0B250463-015 **Work Order #...:** LV3LC **Matrix.....:** SO
Date Sampled...: 02/24/10 12:00 **Date Received..:** 02/25/10
% Moisture.....: 2.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**97.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F15SS-037M-5429-SO

General Chemistry

Lot-Sample #...: A0B250463-016 **Work Order #...:** LV3LE **Matrix.....:** SO
Date Sampled...: 02/24/10 13:30 **Date Received..:** 02/25/10
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**97.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F15SS-038M-5430-SO

General Chemistry

Lot-Sample #...: A0B250463-017 **Work Order #...:** LV3LH **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

General Chemistry

Lot-Sample #...: A0B250463-018 **Work Order #...:** LV3LJ **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	**1.1 B**	**5.1**	**mg/kg**	**MCAWW 353.2**	**03/04-03/09/10**	**0063289**
		Dilution Factor: 1		MDL.....: 0.80		
Percent Solids	**98.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO(VOCS)

General Chemistry

Lot-Sample #...: A0B250463-019 **Work Order #...:** LV3LL **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**74.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
		Dilution Factor: 1		MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: F16SS-027M-5432-SO

General Chemistry

Lot-Sample #...: A0B250463-020 **Work Order #...:** LV3LM **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**
	Dilution Factor: 1			MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: F16SS-028M-5433-SO

General Chemistry

Lot-Sample #...: A0B250463-021 **Work Order #...:** LV3LR **Matrix.....:** SO
Date Sampled...: 02/24/10 10:00 **Date Received..:** 02/25/10
% Moisture.....: 1.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F16SS-024-5434-SO

General Chemistry

Lot-Sample #...: A0B250463-022 **Work Order #...:** LV3LT **Matrix.....:** SO
Date Sampled...: 02/24/10 08:50 **Date Received..:** 02/25/10
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**2.2**	**1.1**	**mg/kg**	**SW846 7196A**	**02/26-03/01/10**	**0057216**
		Dilution Factor: 1		MDL.....: 0.35		
Percent Solids	**76.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: F16SS-025-5435-SO

General Chemistry

Lot-Sample #...: A0B250463-023 **Work Order #...:** LV3LW **Matrix.....:** SO
Date Sampled...: 02/24/10 09:15 **Date Received..:** 02/25/10
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**0.40 J**	**1.1**	**mg/kg**	**SW846 7196A**	**02/26-03/01/10**	**0057216**
	Dilution Factor: 1			MDL.....: 0.36		
Percent Solids	**74.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
	Dilution Factor: 1			MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

J Estimated result: result is less than RL and greater than or equal to the MDL.

Science Applications International Corp

Client Sample ID: F15SS-034-5436-SO

General Chemistry

Lot-Sample #...: A0B250463-024 **Work Order #...:** LV3LX **Matrix.....:** SO
Date Sampled...: 02/24/10 14:10 **Date Received..:** 02/25/10
% Moisture.....: 34

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	1.2	mg/kg	SW846 7196A	02/26-03/01/10	0057216
		Dilution Factor: 1		MDL.....: 0.41		
Percent Solids	**66.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV6WD1AA		MB Lot-Sample #:	A0B260000-216	
	ND	0.80	mg/kg	SW846 7196A	02/26-03/01/10	0057216
		Dilution Factor: 1				
Nitrocellulose		Work Order #: LWAMN1AA		MB Lot-Sample #:	G0C040000-289	
	ND	5.0	mg/kg	MCAWW 353.2	03/04-03/09/10	0063289
		Dilution Factor: 1				
Percent Solids		Work Order #: LV6HK1AA		MB Lot-Sample #:	A0C010000-121	
	ND	10.0	%	MCAWW 160.3 MOD	03/01-03/02/10	0060121
		Dilution Factor: 1				
Percent Solids		Work Order #: LV69T1AA		MB Lot-Sample #:	A0C020000-106	
	ND	10.0	%	MCAWW 160.3 MOD	03/02-03/03/10	0061106
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV6WD1AC	LCS Lot-Sample#: A0B260000-216		
	105	(80 - 120)	SW846 7196A	02/26-03/01/10	0057216
		Dilution Factor: 1			
Nitrocellulose		Work Order #: LWAMN1AC	LCS Lot-Sample#: G0C040000-289		
	65	(34 - 115)	MCAWW 353.2	03/04-03/09/10	0063289
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV6WD1AC		LCS Lot-Sample#: A0B260000-216			
	20.0	21.0	mg/kg	105	SW846 7196A	02/26-03/01/10	0057216
		Dilution Factor: 1					
Nitrocellulose		Work Order #: LWAMN1AC		LCS Lot-Sample#: G0C040000-289			
	50.9	32.9	mg/kg	65	MCAWW 353.2	03/04-03/09/10	0063289
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#: LV3KQ1CE-MS/LV3KQ1CF-MSD				MS Lot-Sample #: A0B250463-004	
	47	(34 - 115)			MCAWW 353.2	03/04-03/09/10	0063289
	73	(34 - 115)	42	(0-71)	MCAWW 353.2	03/04-03/09/10	0063289

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LV3KQ1CE-MS/LV3KQ1CF-MSD				MS Lot-Sample #: A0B250463-004		
	0.97	57.3	28.1	mg/kg	47		MCAWW 353.2	03/04-03/09/10	0063289
	0.97	57.5	43.0	mg/kg	73	42	MCAWW 353.2	03/04-03/09/10	0063289

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Work Order #...:** LV3K1-SMP **Matrix.....:** SO
LV3K1-DUP
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10
% Moisture.....: 24

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250463-009		
	76.0	74.1	%	2.5	(0-20)	MCAWW 160.3 MOD	03/01-03/02/10	0060121

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Work Order #...:** LV3K3-SMP **Matrix.....:** SO
LV3K3-DUP
Date Sampled...: 02/24/10 09:00 **Date Received..:** 02/25/10
% Moisture.....: 16

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250463-010		
	83.8	83.8	%	0.092	(0-20)	MCAWW 160.3 MOD	03/01-03/02/10	0060121

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Work Order #...:** LV3LE-SMP **Matrix.....:** SO
LV3LE-DUP
Date Sampled...: 02/24/10 13:30 **Date Received..:** 02/25/10
% Moisture.....: 2.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250463-016		
	97.6	97.7	%	0.19	(0-20)	MCAWW 160.3 MOD	03/02-03/03/10	0061106

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Work Order #...:** LV3LM-SMP **Matrix.....:** SO
LV3LM-DUP
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250463-020		
	98.0	98.0	%	0.005	(0-20)	MCAWW 160.3 MOD	03/02-03/03/10	0061106

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SUPPORTIVE RAW DATA

TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): Chrome Solids

Batch(es): 0057214, 15, 16

Method #/SOP#: 7196A

Review Items	Level I Review			Level II Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?	X			✓		
2. Calibration curve consist of the minimum number of calibration standards?	X			✓		
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	X			✓		
4. ICB analyzed immediately after ICV and within criteria (± RL)?	X			✓		
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	X			✓		
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?	X			✓		
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?			X			✓
2. All reported results bracketed by in control QC ?,	X			✓		
3. Sample analyses done within holding time ?	X			✓		
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	X			✓		
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	X			✓		
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?			X			✓
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?			X			✓
E. Titrant						
1. Titrant standardized?			X			✓
2. If no, standardization expires						
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?			X			✓
2. Calculations checked for error ?			X			✓
3. Transcriptions checked for error ?	X			✓		
4. All client/project specific requirements met ?	X			✓		
5. Date/time of preparation and analysis verified as correct ?	X			✓		
6. Units verified as correct?	X			✓		
7. Dilutions have been properly applied and RL's adjusted appropriately?			X			✓
8. SOP followed?	X			✓		
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?			X			✓
10. All reagent and standard numbers recorded in logbook?	X			✓		
11. Edits dated and initialed	X			✓		

Comment on any "NO" response(s): _____

Level I reviewer: Michael A. Fuller Date: 3/1/10

Level II Reviewer: QC Date: 3/2/10

N:\Inorganics\spreadsheets2\Use This Wet Chem_Level I.doc
Corporate Policy, QA-012
Revision date: 08/25/00

TestAmerica, North Canton

3060A/7196A Cr+6 Solid Logsheet

Analysis	CR+6 - Soils	Batch	0057214-5-6		Spectrophotometer			
					SPEC 20			
Prep Date	02/26/10	Lcs No.	HX00342					
					Wavelength			
Anal Date	03/01/10	Lcs Prep			540			
		Date	02/26/10		RL			
Analyst	MFG	Balance ID:	BO23		0.8 MG/KG			

Std No	Conc	ABS						
NA	0	0		Slope	0.6294			
HX00335	0.01	0.006		Intercept	0.0011			
HX00336	0.02	0.010		r	0.9994	✓		
HX00337	0.10	0.065						
HX00338	0.25	0.154						
HX00339	0.50	0.333						
HX00340	1.00	0.623						
						Curve units mg/L		

Sample No	**ABS**	**Sample Vol**	**Final Vol**	**Dil**	**Final Conc**			
		in g	**in ml**		**in mg/kg**			
ICV	0.334	2.5	100	1	21.1566	✓	HX00341	
BLK S	0.000	2.5	100	1	-0.0704			
Blank	0.000	2.5	100	1	-0.0704			
LCS - Sol	0.332	2.5	100	1	21.0295	TV=20 ✓	HX00342	
LCS - InSol	0.222	2.5	100	50	701.9294	TV=644 ✓	HX00343	

Sample No	**Sample Abs.**	**Bgk Abs**	**Corr Abs**	**Spk Amt**	**Curve Info**			**MSA Conc.**
CCV	0.334	2.5	100	1	21.1566	✓		**in mg/kg**
CCB	0.000	2.5	100	1	-0.0704	✓		
LVWX5	0.027	0.023	0.004	0.00	Slope	0.01186		0.1718
	0.012	0.008	0.004	0.80	Intercept	-0.00204		
	0.051	0.009	0.042	4.00	r	0.99918	✓	
	0.253	0.017	0.236	20.00				
LVW4V	0.029	0.024	0.005	0.00	Slope	0.01131		0.2047
	0.035	0.024	0.011	0.80	Intercept	0.00232		

	0.088	0.043	0.045	4.00	r	0.99981	✓	
	0.255	0.026	0.229	20.00				
CCV	0.334	2.5	100	1	21.1566	✓		
CCB	0.000	2.5	100	1	-0.0704	✓		
LVW41	0.005	0.002	0.003	0.00	Slope	0.01098		0.0292
	0.010	0.002	0.008	0.80	Intercept	-0.00032		
	0.044	0.004	0.040	4.00	r	0.99961	✓	
	0.223	0.003	0.220	20.00				
LV3RC	0.022	0.000	0.022	0.00	Slope	0.00932		2.6289
	0.031	0.000	0.031	0.80	Intercept	0.02449		
	0.066	0.000	0.066	4.00	r	0.99944	✓	
	0.21	0.000	0.210	20.00				
CCV	0.333	2.5	100	1	21.0931	✓		
CCB	0.000	2.5	100	1	-0.0704	✓		
LV3RK	0.022	0	0.022	0	Slope	0.00839		2.3265
	0.032	0	0.032	0.8	Intercept	0.01951		
	0.043	0	0.043	4	r	0.99613	✓	
	0.189	0	0.189	20				
LV3CK	0.005	0	0.005	0	Slope	0.01598		0.2941
	0.016	0	0.016	0.8	Intercept	0.00470		
	0.07	0	0.070	4	r	0.99997	✓	
	0.324	0	0.324	20				
CCV	0.333	2.5	100.000	1	21.0931	✓		
CCB	0	2.5	100.000	1	-0.0704	✓		
LV3DA	0.007	0.008	-0.001	0	Slope	0.00157		0.3008
	0.008	0.006	0.002	0.8	Intercept	-0.00047		
	0.011	0.006	0.005	4	r	0.99814	✓	
	0.038	0.007	0.031	20				
LV3DC	0.05	0.033	0.017	0	Slope	0.01023		1.0349
	0.041	0.026	0.015	0.8	Intercept	0.01058		
	0.071	0.023	0.048	4	r	0.99876	✓	
	0.232	0.016	0.216	20				
CCV	0.332	2.5	100.000	1	21.0295	✓		
CCB	0.000	2.5	100.000	1	-0.0704	✓		
LV3DE	0.075	0.066	**0.009**	0	Slope	0.00351		14.4532
	0.098	0.057	0.041	0.8	Intercept	0.05074	***See***	
	0.239	0.107	0.132	4	r	X 0.57420	***Below***	
	0.192	0.084	0.108	20				
LV3DH	0.044	0.046	**-0.002**	0	Slope	0.00042		0.8131
	0.044	0.042	0.002	0.8	Intercept	-0.00034	***See***	
	0.035	0.034	0.001	4	r	X 0.93242	***Below***	
	0.049	0.041	0.008	20				
CCV	0.327	2.5	100.000	1	20.7118	✓		

CCB	0.000	2.5	100.000	1	-0.0704	✓		
LV10K	0.1	0.102	**-0.002**	0	Slope	0.00019		57.4419
	0.106	0.088	0.018	0.8	Intercept	0.01106	***See***	
	0.083	0.063	0.020	4	r	X 0.18117	***Below***	
	0.078	0.065	0.013	20				
LV038	0.005	0	0.005	0	Slope	0.01390		0.2403
	0.011	0	0.011	0.8	Intercept	0.00334		
	0.061	0	0.061	4	r	0.99981	✓	
	0.281	0	0.281	20				
CCV	0.325	2.5	100.000	1	20.5847	✓		
CCB	0	2.5	100.000	1	-0.0704	✓		
LV04A	0	0	0.000	0	Slope	0.01421		0.1169
	0.016	0	0.016	0.8	Intercept	0.00166		
	0.057	0	0.057	4	r	0.99987	✓	
	0.286	0	0.286	20				
LV3LT	0.037	0.021	0.016	0	Slope	0.00780		1.6833
	0.042	0.022	0.020	0.8	Intercept	0.01313		
	0.055	0.015	0.040	4	r	0.99912	✓	
	0.199	0.029	0.170	20				
CCV	0.325	2.5	100.000	1	20.5847	✓		
CCB	0	2.5	100.000	1	-0.0704	✓		
LV3LW	0.018	0.021	-0.003	0	Slope	0.01131		0.2986
	0.032	0.021	0.011	0.8	Intercept	-0.00338		
	0.055	0.02	0.035	4	r	0.99886	✓	
	0.236	0.012	0.224	20				
LV3LX	0.191	0.186	**0.005**	0	Slope	0.00558		0.1658
	0.186	0.173	0.013	0.8	Intercept	0.00092	***See***	
	0.088	0.079	0.009	4	r	X 0.98310	***Below***	
	0.199	0.084	0.115	20				
CCV	0.324	2.5	100.000	1	20.5211			
CCB	0	2.5	100.000	1	-0.0704			
LV3DE	0.009	2.5	100.000	1	0.5016			
LV3DH	0	2.5	100.000	1	-0.0704			
LV10K	0	2.5	100.000	1	-0.0704			
LV3LX	0.005	2.5	100.000	1	0.2474			
CCV	0.324	2.5	100.000	1	20.5211			
CCB	0	2.5	100.000	1	-0.0704			

TESTAMERICA, NORTH CANTON
Cr+6 Solid Weight Sheet

Analyst(s): MFG
Batch No: 057214, 15, 16
Weigh Date: 2/26/10
Balance ID: B023
Prep Date: 2/26/10
Anal. Date: 3/1/10
Time On: 14:10
Time Off: 15:10

Sample No.	Wt. 1 (g)	Wt. 2 (g)	Wt. 3 (g)	Wt. 4 (g)
LV1WX5	2.48	2.48	2.48	2.54
LV1W4V	2.50	2.54	2.52	2.50
LV1W41	2.52	2.50	2.52	2.51
LV3RC	2.48	2.49	2.53	2.49
LV3RK	2.48	2.52	2.48	2.48
LV3CK	2.51	2.52	2.48	2.49
LV3DA	2.49	2.52	2.49	2.51
LV3DC	2.51	2.48	2.48	2.52
LV3DE	2.50	2.50	2.47	2.50
LV3DH	2.50	2.51	2.51	2.52
LV10K	2.49	2.50	2.51	2.52
LV038	2.47	2.53	2.49	2.52
LV04A	2.51	2.51	2.50	2.49
LV3LT	2.49	2.53	2.51	2.51
LV3LW	2.50	2.52	2.53	2.50
LV3LX	2.48	2.55	2.48	2.52
		MFG 2/26/10		

			TestAmerica, North Canton			
		Percent Total Solid/Percent Moisture Logsheet				
		Method 160.3, 160.5, D2216-90, D1553-83				
Analysis	TS			Batch		60121
Prep Date	3/1/2010	Time In	11:00	Analyst	6531/TH	WETCHEM
Anal date	3/2/2010	Time Out	7:00	RL	10	
Oven	**2**	Balance	**6**	Due Date:	**3/18/2010**	
Sample	Tare	Wet	Dry	Result TS	Result MS	Time
ID	wt	wt	wt	%	%	
BLANK	4.586	4.6630	4.6544	2.57	ND	9:20
LV3KM1AA	4.586	13.5971	12.6223	89.182	10.818	9:21
LV3KN1AG	4.586	11.8004	11.0874	90.117	9.883	9:21
LV3KP1AG	4.586	17.0827	16.4079	94.600	5.400	9:21
LV3KQ1AA	4.586	13.0066	12.0450	88.580	11.420	9:22
LV3KR1AM	4.586	11.5564	11.2204	95.180	4.820	9:22
LV3KT1AG	4.586	15.7910	13.4085	78.737	21.263	9:22
LV3KW1AG	4.586	9.2703	8.4572	82.642	17.358	9:22
LV3KX1AG	4.586	11.6796	10.7414	86.774	13.226	9:23
LV3K11AT	4.586	17.0874	14.0925	76.043	23.957	9:23
LV3K11DQ X	4.586	12.5047	10.4573	74.145	25.855	9:23
LV3K31AG	4.586	10.8302	9.8217	83.849	16.151	9:24
LV3K31A5 X	4.586	12.0620	10.8488	83.772	16.228	9:24
LV3K71AG	4.586	16.0014	12.6726	70.839	29.161	9:24
LV3K81AG	4.586	13.0720	11.2424	78.440	21.560	9:24
LV3LL1AA	4.586	18.5909	15.0164	74.477	25.523	9:25
LV3LT1AA	4.586	12.4234	10.5516	76.117	23.883	9:25
LV3LW1AA	4.586	13.1528	10.9301	74.054	25.946	9:25
LV3LX1AA	4.586	8.8954	7.4377	66.174	33.826	9:25
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	

			TestAmerica, North Canton			
		Percent Total Solid/Percent Moisture Logsheet				
		Method 160.3, 160.5, D2216-90, D1553-83				
Analysis	TS			Batch		61106
Prep Date	3/2/2010	Time In	11:08	Analyst	TH	WETCHEM
Anal date	3/3/2010	Time Out	7:00	RL	10	
Oven	**2**	Balance	**6**	Due Date:	**3/10/2010**	
Sample	Tare	Wet	Dry	Result TS	Result MS	Time
ID	wt	wt	wt	%	%	
BLANK	4.586	4.6625	4.6550	2.55	ND	11:39
LV6H61AA	4.586	8.5381	8.3873	96.184	3.816	11:39
LV6H71AA	4.586	8.4523	8.3500	97.354	2.646	11:40
LV6H91AA	4.586	7.2420	7.1615	96.969	3.031	11:40
LV6JC1AA	4.586	6.5493	6.3275	88.703	11.297	11:40
LV3K91AA	4.586	14.1856	14.0021	98.088	1.912	11:40
LV3LA1AJ	4.586	10.7896	10.6629	97.958	2.042	11:40
LV3LC1AR	4.586	12.8792	12.6942	97.769	2.231	11:41
LV3LE1A1	4.586	8.8775	8.7728	97.560	2.440	11:41
LV3LE1A7 X	4.586	8.6787	8.5866	97.750	2.250	11:41
LV3LH1AA	4.586	13.3157	13.1507	98.110	1.890	11:41
LV3LJ1AA	4.586	13.4647	13.2898	98.030	1.970	11:41
LV3LM1AA	4.586	13.5530	13.3751	98.016	1.984	11:42
LV3LM1D1 X	4.586	12.9147	12.7490	98.010	1.990	11:42
LV3LR1AA	4.586	11.8785	11.7484	98.216	1.784	11:42
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	
	4.586			100.000	0.000	

North Canton

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0B250463	1		LV3KM1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	2		LV3KN1AG	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	3		LV3KP1AG	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	4		LV3KQ1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	5		LV3KR1AM	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	6		LV3KT1AG	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	7		LV3KW1AG	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	8		LV3KX1AG	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	9		LV3K11AT	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	9	X	LV3K11DQ	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	10		LV3K31AG	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	10	X	LV3K31A5	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	11		LV3K71AG	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	12		LV3K81AG	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	13		LV3K91AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/02/10	Tom Harshman	03/03/10	Tom Harshman
A0B250463	14		LV3LA1AJ	Solids, Percent (as TS - 160.3 MOD) - Solids	03/02/10	Tom Harshman	03/03/10	Tom Harshman
A0B250463	15		LV3LC1AR	Solids, Percent (as TS - 160.3 MOD) - Solids	03/02/10	Tom Harshman	03/03/10	Tom Harshman
A0B250463	16		LV3LE1A1	Solids, Percent (as TS - 160.3 MOD) - Solids	03/02/10	Tom Harshman	03/03/10	Tom Harshman
A0B250463	16	X	LV3LE1A7	Solids, Percent (as TS - 160.3 MOD) - Solids	03/02/10	Tom Harshman	03/03/10	Tom Harshman
A0B250463	17		LV3LH1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/02/10	Tom Harshman	03/03/10	Tom Harshman
A0B250463	18		LV3LJ1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/02/10	Tom Harshman	03/03/10	Tom Harshman
A0B250463	19		LV3LL1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	20		LV3LM1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/02/10	Tom Harshman	03/03/10	Tom Harshman
A0B250463	20	X	LV3LM1D1	Solids, Percent (as TS - 160.3 MOD) - Solids	03/02/10	Tom Harshman	03/03/10	Tom Harshman
A0B250463	21		LV3LR1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/02/10	Tom Harshman	03/03/10	Tom Harshman
A0B250463	22		LV3LT1AC	Chromium, Hexavalent (7196A)	02/26/10	Melissa Fuller-Gustavel	03/01/10	Melissa Fuller-Gustavel
A0B250463	22		LV3LT1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0B250463	23		LV3LW1AC	Chromium, Hexavalent (7196A)	02/26/10	Melissa Fuller-Gustavel	03/01/10	Melissa Fuller-Gustavel
A0B250463	23		LV3LW1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman
A0B250463	24		LV3LX1AC	Chromium, Hexavalent (7196A)	02/26/10	Melissa Fuller-Gustavel	03/01/10	Melissa Fuller-Gustavel
A0B250463	24		LV3LX1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	03/01/10	Bradley Belding	03/02/10	Tom Harshman

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

WEST SACRAMENTO DATA

Case Narrative

TestAmerica West Sacramento Project Number A0B250463

General Comments
Samples 13-16, 18, & 20 were dried, ground, & sieved by the TestAmerica North Canton lab.

Manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: S-Q-004, including Addendum 1. Detailed information can be found in the Manual Integration Addendum section of this report.

SOLID, 8330B, Explosives
Sample(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20
The matrix spikes, which were performed on samples 9 & 20 have some low recoveries for 4-amino-2,6-dinitrotoluene due to possible matrix interferences. Since the laboratory control sample met acceptance criteria, no corrective action was performed.

There were no other anomalies associated with this project.

Science Applications International Corp

Client Sample ID: ATASB-006-5127-SO

HPLC

Lot-Sample #...: A0B250463-001 **Work Order #...:** LV3KM1A4 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:53 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/10/10
Prep Batch #...: 0065052
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.010
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0053
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0073
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.018
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.016
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.010
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.010
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	107	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-006-5127-SO

General Chemistry

Lot-Sample #...: A0B250463-001 **Work Order #...:** LV3KM **Matrix.....:** SO
Date Sampled...: 02/24/10 10:53 **Date Received..:** 02/25/10
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**89.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-006-6080-FD

HPLC

Lot-Sample #...: A0B250463-002 **Work Order #...:** LV3KN1AF **Matrix.....:** SO
Date Sampled...: 02/24/10 10:53 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/10/10
Prep Batch #...: 0065052
Dilution Factor: 1
% Moisture.....: 9.9 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.010
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0053
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0073
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.018
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.016
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.010
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.010
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	108	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-006-6080-FD

General Chemistry

Lot-Sample #...: A0B250463-002 **Work Order #...:** LV3KN **Matrix.....:** SO
Date Sampled...: 02/24/10 10:53 **Date Received..:** 02/25/10
% Moisture.....: 9.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**90.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-006-5128-SO

HPLC

Lot-Sample #...: A0B250463-003 **Work Order #...:** LV3KP1AF **Matrix.....:** SO
Date Sampled...: 02/24/10 11:15 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/10/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 5.4 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-006-5128-SO

General Chemistry

Lot-Sample #...: A0B250463-003 **Work Order #...:** LV3KP **Matrix.....:** SO
Date Sampled...: 02/24/10 11:15 **Date Received..:** 02/25/10
% Moisture.....: 5.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**94.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

HPLC

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ1A9 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 03/05/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0064232
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8330 (Modif

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroguanidine	ND	0.25	mg/kg	0.020

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

HPLC

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ1A8 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/10/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 11 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	108	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-008-5133-SO

General Chemistry

Lot-Sample #...: A0B250463-004 **Work Order #...:** LV3KQ **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	**0.97 B**	**5.6**	**mg/kg**	**MCAWW 353.2**	**03/04-03/09/10**	**0063289**
		Dilution Factor: 1		MDL.....: 0.88		
Percent Solids	**88.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

HPLC

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR1AL **Matrix.....:** SO
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
Prep Date.....: 03/05/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0064232
Dilution Factor: 1
% Moisture.....: 4.8 **Method.....:** SW846 8330 (Modif

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroguanidine	ND	0.25	mg/kg	0.020

Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

HPLC

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR1AK **Matrix.....:** SO
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 4.8 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-008-5134-SO

General Chemistry

Lot-Sample #...: A0B250463-005 **Work Order #...:** LV3KR **Matrix.....:** SO
Date Sampled...: 02/24/10 12:45 **Date Received..:** 02/25/10
% Moisture.....: 4.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.3	mg/kg	MCAWW 353.2	03/04-03/09/10	0063289
		Dilution Factor: 1		MDL.....: 0.82		
Percent Solids	**95.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: ATASB-009-5137-SO

HPLC

Lot-Sample #...: A0B250463-006 **Work Order #...:** LV3KT1AF **Matrix.....:** SO
Date Sampled...: 02/24/10 13:25 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 21 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	104	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-009-5137-SO

General Chemistry

Lot-Sample #...: A0B250463-006 **Work Order #...:** LV3KT **Matrix.....:** SO
Date Sampled...: 02/24/10 13:25 **Date Received..:** 02/25/10
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**78.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-009-5138-SO

HPLC

Lot-Sample #...: A0B250463-007 **Work Order #...:** LV3KW1AF **Matrix.....:** SO
Date Sampled...: 02/24/10 13:50 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 17 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	105	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-009-5138-SO

General Chemistry

Lot-Sample #...: A0B250463-007 **Work Order #...:** LV3KW **Matrix.....:** SO
Date Sampled...: 02/24/10 13:50 **Date Received..:** 02/25/10
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**82.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-009-6081-FD

HPLC

Lot-Sample #...: A0B250463-008 **Work Order #...:** LV3KX1AF **Matrix.....:** SO
Date Sampled...: 02/24/10 13:55 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 13 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-009-6081-FD

General Chemistry

Lot-Sample #...: A0B250463-008 **Work Order #...:** LV3KX **Matrix.....:** SO
Date Sampled...: 02/24/10 13:55 **Date Received..:** 02/25/10
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-010-5141-SO

HPLC

Lot-Sample #...: A0B250463-009 **Work Order #...:** LV3K11AP **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 24 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	104	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-010-5141-SO

General Chemistry

Lot-Sample #...: A0B250463-009 **Work Order #...:** LV3K1 **Matrix.....:** SO
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**76.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-010-5142-SO

HPLC

Lot-Sample #...: A0B250463-010 **Work Order #...:** LV3K31AF **Matrix.....:** SO
Date Sampled...: 02/24/10 09:00 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 16 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-010-5142-SO

General Chemistry

Lot-Sample #...: A0B250463-010 **Work Order #...:** LV3K3 **Matrix.....:** SO
Date Sampled...: 02/24/10 09:00 **Date Received..:** 02/25/10
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**83.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-011-5145-SO

HPLC

Lot-Sample #...: A0B250463-011 **Work Order #...:** LV3K71AF **Matrix.....:** SO
Date Sampled...: 02/24/10 10:00 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 29 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	104	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-011-5145-SO

General Chemistry

Lot-Sample #...: A0B250463-011 **Work Order #...:** LV3K7 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:00 **Date Received..:** 02/25/10
% Moisture.....: 29

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**70.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: ATASB-011-5146-SO

HPLC

Lot-Sample #...: A0B250463-012 **Work Order #...:** LV3K81AF **Matrix.....:** SO
Date Sampled...: 02/24/10 10:24 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 22 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

Science Applications International Corp

Client Sample ID: ATASB-011-5146-SO

General Chemistry

Lot-Sample #...: A0B250463-012 **Work Order #...:** LV3K8 **Matrix.....:** SO
Date Sampled...: 02/24/10 10:24 **Date Received..:** 02/25/10
% Moisture.....: 22

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**78.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F15SS-036M-5427-SO

HPLC

Lot-Sample #...: A0B250463-013 **Work Order #...:** LV3K91A4 **Matrix.....:** SO
Date Sampled...: 02/24/10 14:00 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 1.9 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	103	(81 - 127)

Science Applications International Corp

Client Sample ID: F15SS-036M-5427-SO

General Chemistry

Lot-Sample #...: A0B250463-013 **Work Order #...:** LV3K9 **Matrix.....:** SO
Date Sampled...: 02/24/10 14:00 **Date Received..:** 02/25/10
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**
	Dilution Factor: 1			MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: F15SS-035M-5428-SO

HPLC

Lot-Sample #...: A0B250463-014 **Work Order #...:** LV3LA1AF **Matrix.....:** SO
Date Sampled...: 02/24/10 12:00 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 2.0 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	102	(81 - 127)

Science Applications International Corp

Client Sample ID: F15SS-035M-5428-SO

General Chemistry

Lot-Sample #...: A0B250463-014 **Work Order #...:** LV3LA **Matrix.....:** SO
Date Sampled...: 02/24/10 12:00 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F15SS-035M-6121-FD

HPLC

Lot-Sample #...: A0B250463-015 **Work Order #...:** LV3LC1AN **Matrix.....:** SO
Date Sampled...: 02/24/10 12:00 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 1
% Moisture.....: 2.2 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.010
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0053
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0073
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.018
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.016
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.010
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.010
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	115	(81 - 127)

Science Applications International Corp

Client Sample ID: F15SS-035M-6121-FD

General Chemistry

Lot-Sample #...: A0B250463-015 **Work Order #...:** LV3LC **Matrix.....:** SO
Date Sampled...: 02/24/10 12:00 **Date Received..:** 02/25/10
% Moisture.....: 2.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**97.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F15SS-037M-5429-SO

HPLC

Lot-Sample #...: A0B250463-016 **Work Order #...:** LV3LE1AW **Matrix.....:** SO
Date Sampled...: 02/24/10 13:30 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 1
% Moisture.....: 2.4 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.010
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0053
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0073
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.018
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.016
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.010
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.010
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	101	(81 - 127)

Science Applications International Corp

Client Sample ID: F15SS-037M-5429-SO

General Chemistry

Lot-Sample #...: A0B250463-016 **Work Order #...:** LV3LE **Matrix.....:** SO
Date Sampled...: 02/24/10 13:30 **Date Received..:** 02/25/10
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**97.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F15SS-038M-5430-SO

General Chemistry

Lot-Sample #...: A0B250463-017 **Work Order #...:** LV3LH **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

HPLC

Lot-Sample #...: A0B250463-018 **Work Order #...:** LV3LJ1A8 **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
Prep Date.....: 03/05/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0064232
Dilution Factor: 1
% Moisture.....: 2.0 **Method.....:** SW846 8330 (Modif

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Nitroguanidine	ND	0.25	mg/kg	0.020

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

HPLC

Lot-Sample #...: A0B250463-018 **Work Order #...:** LV3LJ1A7 **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 1
% Moisture.....: 2.0 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.010
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0053
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0073
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.018
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.016
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.010
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.010
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	102	(81 - 127)

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO

General Chemistry

Lot-Sample #...: A0B250463-018 **Work Order #...:** LV3LJ **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	**1.1 B**	**5.1**	**mg/kg**	**MCAWW 353.2**	**03/04-03/09/10**	**0063289**
		Dilution Factor: 1		MDL.....: 0.80		
Percent Solids	**98.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Science Applications International Corp

Client Sample ID: F16SS-026M-5431-SO(VOCS)

General Chemistry

Lot-Sample #...: A0B250463-019 **Work Order #...:** LV3LL **Matrix.....:** SO
Date Sampled...: 02/24/10 14:30 **Date Received..:** 02/25/10
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**74.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
	Dilution Factor: 1			MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: F16SS-027M-5432-SO

HPLC

Lot-Sample #...: A0B250463-020 **Work Order #...:** LV3LM1DM **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99
% Moisture.....: 2.0 **Method.....:** SW846 8330B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	0.0099
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	0.012
1,3-Dinitrobenzene	ND	0.25	mg/kg	0.0042
2,4-Dinitrotoluene	ND	0.25	mg/kg	0.0052
2,6-Dinitrotoluene	ND	0.25	mg/kg	0.0072
HMX	ND	0.25	mg/kg	0.012
Nitrobenzene	ND	0.25	mg/kg	0.017
Nitroglycerin	ND	0.50	mg/kg	0.015
2-Nitrotoluene	ND	0.25	mg/kg	0.013
3-Nitrotoluene	ND	0.25	mg/kg	0.015
4-Nitrotoluene	ND	0.50	mg/kg	0.018
PETN	ND	0.50	mg/kg	0.025
RDX	ND	0.25	mg/kg	0.012
Tetryl	ND	0.25	mg/kg	0.0099
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	0.0099
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	0.019

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	101	(81 - 127)

Science Applications International Corp

Client Sample ID: F16SS-027M-5432-SO

General Chemistry

Lot-Sample #...: A0B250463-020 **Work Order #...:** LV3LM **Matrix.....:** SO
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**
	Dilution Factor: 1			MDL.....: 10.0		

Science Applications International Corp

Client Sample ID: F16SS-028M-5433-SO

General Chemistry

Lot-Sample #...: A0B250463-021 **Work Order #...:** LV3LR **Matrix.....:** SO
Date Sampled...: 02/24/10 10:00 **Date Received..:** 02/25/10
% Moisture.....: 1.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/02-03/03/10**	**0061106**

Dilution Factor: 1 MDL.....: 10.0

Science Applications International Corp

Client Sample ID: F16SS-024-5434-SO

General Chemistry

Lot-Sample #...: A0B250463-022 **Work Order #...:** LV3LT **Matrix.....:** SO
Date Sampled...: 02/24/10 08:50 **Date Received..:** 02/25/10
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**2.2**	**1.1**	**mg/kg**	**SW846 7196A**	**02/26-03/01/10**	**0057216**
		Dilution Factor: 1		MDL.....: 0.35		
Percent Solids	**76.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Science Applications International Corp

Client Sample ID: F16SS-025-5435-SO

General Chemistry

Lot-Sample #...: A0B250463-023 **Work Order #...:** LV3LW **Matrix.....:** SO
Date Sampled...: 02/24/10 09:15 **Date Received..:** 02/25/10
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**0.40 J**	**1.1**	**mg/kg**	**SW846 7196A**	**02/26-03/01/10**	**0057216**
	Dilution Factor: 1			MDL.....: 0.36		
Percent Solids	**74.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
	Dilution Factor: 1			MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

J Estimated result: result is less than RL and greater than or equal to the MDL.

Science Applications International Corp

Client Sample ID: F15SS-034-5436-SO

General Chemistry

Lot-Sample #...: A0B250463-024 **Work Order #...:** LV3LX **Matrix.....:** SO
Date Sampled...: 02/24/10 14:10 **Date Received..:** 02/25/10
% Moisture.....: 34

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	1.2	mg/kg	SW846 7196A	02/26-03/01/10	0057216
		Dilution Factor: 1		MDL.....: 0.41		
Percent Solids	**66.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**03/01-03/02/10**	**0060121**
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LWCKF1AA **Matrix.....:** SOLID
MB Lot-Sample #: G0C050000-232
Prep Date.....: 03/05/10
Analysis Date..: 03/15/10 **Prep Batch #...:** 0064232
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitroguanidine	ND	0.25	mg/kg	SW846 8330 (Modif

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LWDNG1AA **Matrix.....:** SOLID
MB Lot-Sample #: G0C060000-052

Prep Date.....: 03/06/10
Analysis Date..: 03/10/10 **Prep Batch #...:** 0065052
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330B
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
Nitrobenzene	ND	0.25	mg/kg	SW846 8330B
Nitroglycerin	ND	0.50	mg/kg	SW846 8330B
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330B
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330B
HMX	ND	0.25	mg/kg	SW846 8330B
RDX	ND	0.25	mg/kg	SW846 8330B
Tetryl	ND	0.25	mg/kg	SW846 8330B
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330B
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330B
4-Nitrotoluene	ND	0.50	mg/kg	SW846 8330B
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
2-Amino-4,6-dinitrotoluene	ND	0.25	mg/kg	SW846 8330B
PETN	ND	0.50	mg/kg	SW846 8330B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	106	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV6WD1AA		MB Lot-Sample #:	A0B260000-216	
	ND	0.80	mg/kg	SW846 7196A	02/26-03/01/10	0057216
		Dilution Factor: 1				
Nitrocellulose		Work Order #: LWAMN1AA		MB Lot-Sample #:	G0C040000-289	
	ND	5.0	mg/kg	MCAWW 353.2	03/04-03/09/10	0063289
		Dilution Factor: 1				
Percent Solids		Work Order #: LV6HK1AA		MB Lot-Sample #:	A0C010000-121	
	ND	10.0	%	MCAWW 160.3 MOD	03/01-03/02/10	0060121
		Dilution Factor: 1				
Percent Solids		Work Order #: LV69T1AA		MB Lot-Sample #:	A0C020000-106	
	ND	10.0	%	MCAWW 160.3 MOD	03/02-03/03/10	0061106
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LWCKF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C050000-232
Prep Date.....: 03/05/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0064232
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Nitroguanidine	**97**	**(72 - 121)**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LWCKF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C050000-232
Prep Date.....: 03/05/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0064232
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Nitroguanidine	**1.0**	**0.97**	**mg/kg**	**97**	**SW846 8330 (Modi**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LWDNG1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C060000-052
Prep Date.....: 03/06/10 **Analysis Date..:** 03/10/10
Prep Batch #...: 0065052
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2-Amino-4,6-dinitrotoluene	**96**	**(80 - 125)**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**95**	**(80 - 125)**	**SW846 8330B**
1,3-Dinitrobenzene	**99**	**(80 - 125)**	**SW846 8330B**
2,4-Dinitrotoluene	**95**	**(80 - 125)**	**SW846 8330B**
2,6-Dinitrotoluene	**95**	**(80 - 120)**	**SW846 8330B**
HMX	**99**	**(75 - 125)**	**SW846 8330B**
Nitrobenzene	**95**	**(75 - 125)**	**SW846 8330B**
2-Nitrotoluene	**107**	**(80 - 125)**	**SW846 8330B**
3-Nitrotoluene	**97**	**(75 - 120)**	**SW846 8330B**
4-Nitrotoluene	**98**	**(75 - 125)**	**SW846 8330B**
RDX	**100**	**(70 - 135)**	**SW846 8330B**
Tetryl	**86**	**(10 - 150)**	**SW846 8330B**
1,3,5-Trinitrobenzene	**99**	**(75 - 125)**	**SW846 8330B**
2,4,6-Trinitrotoluene	**90**	**(55 - 140)**	**SW846 8330B**
Nitroglycerin	**104**	**(74 - 112)**	**SW846 8330B**
PETN	**100**	**(75 - 117)**	**SW846 8330B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	98	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LWDNG1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G0C060000-052
Prep Date.....: 03/06/10 **Analysis Date..:** 03/10/10
Prep Batch #...: 0065052
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Amino-4,6-dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**96**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**0.50**	**0.47**	**mg/kg**	**95**	**SW846 8330B**
1,3-Dinitrobenzene	**0.50**	**0.49**	**mg/kg**	**99**	**SW846 8330B**
2,4-Dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**95**	**SW846 8330B**
2,6-Dinitrotoluene	**0.50**	**0.48**	**mg/kg**	**95**	**SW846 8330B**
HMX	**0.50**	**0.50**	**mg/kg**	**99**	**SW846 8330B**
Nitrobenzene	**0.50**	**0.48**	**mg/kg**	**95**	**SW846 8330B**
2-Nitrotoluene	**0.50**	**0.54**	**mg/kg**	**107**	**SW846 8330B**
3-Nitrotoluene	**0.50**	**0.49**	**mg/kg**	**97**	**SW846 8330B**
4-Nitrotoluene	**0.50**	**0.49**	**mg/kg**	**98**	**SW846 8330B**
RDX	**0.50**	**0.50**	**mg/kg**	**100**	**SW846 8330B**
Tetryl	**0.50**	**0.43**	**mg/kg**	**86**	**SW846 8330B**
1,3,5-Trinitrobenzene	**0.50**	**0.50**	**mg/kg**	**99**	**SW846 8330B**
2,4,6-Trinitrotoluene	**0.50**	**0.45**	**mg/kg**	**90**	**SW846 8330B**
Nitroglycerin	**1.0**	**1.0**	**mg/kg**	**104**	**SW846 8330B**
PETN	**1.0**	**1.0**	**mg/kg**	**100**	**SW846 8330B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	98	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV6WD1AC	LCS Lot-Sample#: A0B260000-216		
	105	(80 - 120)	SW846 7196A	02/26-03/01/10	0057216
		Dilution Factor: 1			
Nitrocellulose		Work Order #: LWAMN1AC	LCS Lot-Sample#: G0C040000-289		
	65	(34 - 115)	MCAWW 353.2	03/04-03/09/10	0063289
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B250463 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: LV6WD1AC		LCS Lot-Sample#: A0B260000-216			
	20.0	21.0	mg/kg	105	SW846 7196A	02/26-03/01/10	0057216
		Dilution Factor: 1					
Nitrocellulose		Work Order #: LWAMN1AC		LCS Lot-Sample#: G0C040000-289			
	50.9	32.9	mg/kg	65	MCAWW 353.2	03/04-03/09/10	0063289
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LV3KQ1CG-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-004 LV3KQ1CH-MSD
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 03/05/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0064232
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Nitroguanidine	**93**	**(72 - 121)**			**SW846 8330 (Modified**
	94	**(72 - 121)**	**2.1**	**(0-20)**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LV3KQ1CG-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-004 LV3KQ1CH-MSD
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10
Prep Date.....: 03/05/10 **Analysis Date..:** 03/15/10
Prep Batch #...: 0064232
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Nitroguanidine	**ND**	**0.98**	**0.92**	**mg/kg**	**93**		**SW846 8330 (Modified**
	ND	**1.0**	**0.93**	**mg/kg**	**94**	**2.1**	**SW846 8330 (Modified**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LV3K11AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-009 LV3K11AR-MSD
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluene	**84**	**(80 - 125)**			**SW846 8330B**
	86	**(80 - 125)**	**3.7**	**(0-30)**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**76 a**	**(80 - 125)**			**SW846 8330B**
	78 a	**(80 - 125)**	**3.2**	**(0-30)**	**SW846 8330B**
1,3-Dinitrobenzene	**94**	**(80 - 125)**			**SW846 8330B**
	96	**(80 - 125)**	**3.2**	**(0-30)**	**SW846 8330B**
2,4-Dinitrotoluene	**89**	**(80 - 125)**			**SW846 8330B**
	92	**(80 - 125)**	**3.4**	**(0-30)**	**SW846 8330B**
2,6-Dinitrotoluene	**89**	**(80 - 120)**			**SW846 8330B**
	92	**(80 - 120)**	**4.4**	**(0-30)**	**SW846 8330B**
HMX	**79**	**(75 - 125)**			**SW846 8330B**
	82	**(75 - 125)**	**4.5**	**(0-30)**	**SW846 8330B**
Nitrobenzene	**93**	**(75 - 125)**			**SW846 8330B**
	94	**(75 - 125)**	**2.0**	**(0-30)**	**SW846 8330B**
2-Nitrotoluene	**92**	**(80 - 125)**			**SW846 8330B**
	96	**(80 - 125)**	**3.9**	**(0-30)**	**SW846 8330B**
3-Nitrotoluene	**92**	**(75 - 120)**			**SW846 8330B**
	95	**(75 - 120)**	**2.8**	**(0-30)**	**SW846 8330B**
4-Nitrotoluene	**93**	**(75 - 125)**			**SW846 8330B**
	96	**(75 - 125)**	**4.4**	**(0-30)**	**SW846 8330B**
RDX	**77**	**(70 - 135)**			**SW846 8330B**
	78	**(70 - 135)**	**2.7**	**(0-30)**	**SW846 8330B**
Tetryl	**68**	**(10 - 150)**			**SW846 8330B**
	70	**(10 - 150)**	**3.0**	**(0-30)**	**SW846 8330B**
1,3,5-Trinitrobenzene	**90**	**(75 - 125)**			**SW846 8330B**
	93	**(75 - 125)**	**3.4**	**(0-30)**	**SW846 8330B**
2,4,6-Trinitrotoluene	**82**	**(55 - 140)**			**SW846 8330B**
	85	**(55 - 140)**	**4.0**	**(0-30)**	**SW846 8330B**
Nitroglycerin	**96**	**(74 - 112)**			**SW846 8330B**
	99	**(74 - 112)**	**3.8**	**(0-30)**	**SW846 8330B**
PETN	**87**	**(75 - 117)**			**SW846 8330B**
	91	**(75 - 117)**	**5.5**	**(0-30)**	**SW846 8330B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LV3K11AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-009 LV3K11AR-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	95	(81 - 127)
	99	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LV3K11AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-009 LV3K11AR-MSD
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2-Amino-4,6-dinitrotoluene	**ND**	**0.50**	**0.42**	**mg/kg**	**84**		**SW846 8330B**
	ND	**0.50**	**0.43**	**mg/kg**	**86**	**3.7**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**ND**	**0.50**	**0.38**	**mg/kg**	**76 a**		**SW846 8330B**
	ND	**0.50**	**0.39**	**mg/kg**	**78 a**	**3.2**	**SW846 8330B**
1,3-Dinitrobenzene	**ND**	**0.50**	**0.47**	**mg/kg**	**94**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**3.2**	**SW846 8330B**
2,4-Dinitrotoluene	**ND**	**0.50**	**0.44**	**mg/kg**	**89**		**SW846 8330B**
	ND	**0.50**	**0.46**	**mg/kg**	**92**	**3.4**	**SW846 8330B**
2,6-Dinitrotoluene	**ND**	**0.50**	**0.44**	**mg/kg**	**89**		**SW846 8330B**
	ND	**0.50**	**0.46**	**mg/kg**	**92**	**4.4**	**SW846 8330B**
HMX	**ND**	**0.50**	**0.39**	**mg/kg**	**79**		**SW846 8330B**
	ND	**0.50**	**0.41**	**mg/kg**	**82**	**4.5**	**SW846 8330B**
Nitrobenzene	**ND**	**0.50**	**0.46**	**mg/kg**	**93**		**SW846 8330B**
	ND	**0.50**	**0.47**	**mg/kg**	**94**	**2.0**	**SW846 8330B**
2-Nitrotoluene	**ND**	**0.50**	**0.46**	**mg/kg**	**92**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**3.9**	**SW846 8330B**
3-Nitrotoluene	**ND**	**0.50**	**0.46**	**mg/kg**	**92**		**SW846 8330B**
	ND	**0.50**	**0.47**	**mg/kg**	**95**	**2.8**	**SW846 8330B**
4-Nitrotoluene	**ND**	**0.50**	**0.46**	**mg/kg**	**93**		**SW846 8330B**
	ND	**0.50**	**0.48**	**mg/kg**	**96**	**4.4**	**SW846 8330B**
RDX	**ND**	**0.50**	**0.38**	**mg/kg**	**77**		**SW846 8330B**
	ND	**0.50**	**0.39**	**mg/kg**	**78**	**2.7**	**SW846 8330B**
Tetryl	**ND**	**0.50**	**0.34**	**mg/kg**	**68**		**SW846 8330B**
	ND	**0.50**	**0.35**	**mg/kg**	**70**	**3.0**	**SW846 8330B**
1,3,5-Trinitrobenzene	**ND**	**0.50**	**0.45**	**mg/kg**	**90**		**SW846 8330B**
	ND	**0.50**	**0.46**	**mg/kg**	**93**	**3.4**	**SW846 8330B**
2,4,6-Trinitrotoluene	**ND**	**0.50**	**0.41**	**mg/kg**	**82**		**SW846 8330B**
	ND	**0.50**	**0.42**	**mg/kg**	**85**	**4.0**	**SW846 8330B**
Nitroglycerin	**ND**	**0.99**	**0.96**	**mg/kg**	**96**		**SW846 8330B**
	ND	**1.0**	**0.99**	**mg/kg**	**99**	**3.8**	**SW846 8330B**
PETN	**ND**	**0.99**	**0.87**	**mg/kg**	**87**		**SW846 8330B**
	ND	**1.0**	**0.91**	**mg/kg**	**91**	**5.5**	**SW846 8330B**

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MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LV3K11AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-009 LV3K11AR-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	95	(81 - 127)
	99	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DN-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1DP-MSD
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluene	**82**	**(80 - 125)**			**SW846 8330B**
	89	**(80 - 125)**	**8.0**	**(0-30)**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**74 a**	**(80 - 125)**			**SW846 8330B**
	82	**(80 - 125)**	**10**	**(0-30)**	**SW846 8330B**
1,3-Dinitrobenzene	**92**	**(80 - 125)**			**SW846 8330B**
	95	**(80 - 125)**	**2.8**	**(0-30)**	**SW846 8330B**
2,4-Dinitrotoluene	**89**	**(80 - 125)**			**SW846 8330B**
	95	**(80 - 125)**	**6.8**	**(0-30)**	**SW846 8330B**
2,6-Dinitrotoluene	**90**	**(80 - 120)**			**SW846 8330B**
	99	**(80 - 120)**	**9.8**	**(0-30)**	**SW846 8330B**
HMX	**79**	**(75 - 125)**			**SW846 8330B**
	85	**(75 - 125)**	**7.2**	**(0-30)**	**SW846 8330B**
Nitrobenzene	**92**	**(75 - 125)**			**SW846 8330B**
	93	**(75 - 125)**	**0.88**	**(0-30)**	**SW846 8330B**
2-Nitrotoluene	**93**	**(80 - 125)**			**SW846 8330B**
	93	**(80 - 125)**	**0.51**	**(0-30)**	**SW846 8330B**
3-Nitrotoluene	**93**	**(75 - 120)**			**SW846 8330B**
	93	**(75 - 120)**	**0.54**	**(0-30)**	**SW846 8330B**
4-Nitrotoluene	**94**	**(75 - 125)**			**SW846 8330B**
	93	**(75 - 125)**	**0.17**	**(0-30)**	**SW846 8330B**
RDX	**76**	**(70 - 135)**			**SW846 8330B**
	81	**(70 - 135)**	**6.4**	**(0-30)**	**SW846 8330B**
Tetryl	**75**	**(10 - 150)**			**SW846 8330B**
	79	**(10 - 150)**	**5.7**	**(0-30)**	**SW846 8330B**
1,3,5-Trinitrobenzene	**91**	**(75 - 125)**			**SW846 8330B**
	94	**(75 - 125)**	**4.1**	**(0-30)**	**SW846 8330B**
2,4,6-Trinitrotoluene	**82**	**(55 - 140)**			**SW846 8330B**
	87	**(55 - 140)**	**5.8**	**(0-30)**	**SW846 8330B**
Nitroglycerin	**97**	**(74 - 112)**			**SW846 8330B**
	98	**(74 - 112)**	**0.47**	**(0-30)**	**SW846 8330B**
PETN	**88**	**(75 - 117)**			**SW846 8330B**
	92	**(75 - 117)**	**4.3**	**(0-30)**	**SW846 8330B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DN-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1DP-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	92	(81 - 127)
	101	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DN-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1DP-MSD
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
Prep Date.....: 03/06/10 **Analysis Date..:** 03/11/10
Prep Batch #...: 0065052
Dilution Factor: 0.99

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2-Amino-4,6-dinitrotoluene	**ND**	**0.50**	**0.41**	**mg/kg**	**82**		**SW846 8330B**
	ND	**0.50**	**0.44**	**mg/kg**	**89**	**8.0**	**SW846 8330B**
4-Amino-2,6-dinitrotoluene	**ND**	**0.50**	**0.37**	**mg/kg**	**74 a**		**SW846 8330B**
	ND	**0.50**	**0.41**	**mg/kg**	**82**	**10**	**SW846 8330B**
1,3-Dinitrobenzene	**ND**	**0.50**	**0.46**	**mg/kg**	**92**		**SW846 8330B**
	ND	**0.50**	**0.47**	**mg/kg**	**95**	**2.8**	**SW846 8330B**
2,4-Dinitrotoluene	**ND**	**0.50**	**0.44**	**mg/kg**	**89**		**SW846 8330B**
	ND	**0.50**	**0.47**	**mg/kg**	**95**	**6.8**	**SW846 8330B**
2,6-Dinitrotoluene	**ND**	**0.50**	**0.45**	**mg/kg**	**90**		**SW846 8330B**
	ND	**0.50**	**0.49**	**mg/kg**	**99**	**9.8**	**SW846 8330B**
HMX	**ND**	**0.50**	**0.40**	**mg/kg**	**79**		**SW846 8330B**
	ND	**0.50**	**0.42**	**mg/kg**	**85**	**7.2**	**SW846 8330B**
Nitrobenzene	**ND**	**0.50**	**0.46**	**mg/kg**	**92**		**SW846 8330B**
	ND	**0.50**	**0.46**	**mg/kg**	**93**	**0.88**	**SW846 8330B**
2-Nitrotoluene	**ND**	**0.50**	**0.46**	**mg/kg**	**93**		**SW846 8330B**
	ND	**0.50**	**0.46**	**mg/kg**	**93**	**0.51**	**SW846 8330B**
3-Nitrotoluene	**ND**	**0.50**	**0.46**	**mg/kg**	**93**		**SW846 8330B**
	ND	**0.50**	**0.46**	**mg/kg**	**93**	**0.54**	**SW846 8330B**
4-Nitrotoluene	**ND**	**0.50**	**0.47**	**mg/kg**	**94**		**SW846 8330B**
	ND	**0.50**	**0.46**	**mg/kg**	**93**	**0.17**	**SW846 8330B**
RDX	**ND**	**0.50**	**0.38**	**mg/kg**	**76**		**SW846 8330B**
	ND	**0.50**	**0.40**	**mg/kg**	**81**	**6.4**	**SW846 8330B**
Tetryl	**ND**	**0.50**	**0.37**	**mg/kg**	**75**		**SW846 8330B**
	ND	**0.50**	**0.40**	**mg/kg**	**79**	**5.7**	**SW846 8330B**
1,3,5-Trinitrobenzene	**ND**	**0.50**	**0.45**	**mg/kg**	**91**		**SW846 8330B**
	ND	**0.50**	**0.47**	**mg/kg**	**94**	**4.1**	**SW846 8330B**
2,4,6-Trinitrotoluene	**ND**	**0.50**	**0.41**	**mg/kg**	**82**		**SW846 8330B**
	ND	**0.50**	**0.43**	**mg/kg**	**87**	**5.8**	**SW846 8330B**
Nitroglycerin	**ND**	**1.0**	**0.97**	**mg/kg**	**97**		**SW846 8330B**
	ND	**1.0**	**0.97**	**mg/kg**	**98**	**0.47**	**SW846 8330B**
PETN	**ND**	**1.0**	**0.88**	**mg/kg**	**88**		**SW846 8330B**
	ND	**1.0**	**0.92**	**mg/kg**	**92**	**4.3**	**SW846 8330B**

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MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: A0B250463 **Work Order #...:** LV3LM1DN-MS **Matrix.....:** SO
MS Lot-Sample #: A0B250463-020 LV3LM1DP-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
3,4-Dinitrotoluene	92	(81 - 127)
	101	(81 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#: LV3KQ1CE-MS/LV3KQ1CF-MSD				MS Lot-Sample #: A0B250463-004	
	47	(34 - 115)			MCAWW 353.2	03/04-03/09/10	0063289
	73	(34 - 115)	42	(0-71)	MCAWW 353.2	03/04-03/09/10	0063289

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0B250463 **Matrix.....:** SO
Date Sampled...: 02/24/10 12:30 **Date Received..:** 02/25/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LV3KQ1CE-MS/LV3KQ1CF-MSD				MS Lot-Sample #: A0B250463-004		
	0.97	57.3	28.1	mg/kg	47		MCAWW 353.2	03/04-03/09/10	0063289
	0.97	57.5	43.0	mg/kg	73	42	MCAWW 353.2	03/04-03/09/10	0063289

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Work Order #...:** LV3K1-SMP **Matrix.....:** SO
LV3K1-DUP
Date Sampled...: 02/24/10 08:22 **Date Received..:** 02/25/10
% Moisture.....: 24

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250463-009		
	76.0	74.1	%	2.5	(0-20)	MCAWW 160.3 MOD	03/01-03/02/10	0060121

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Work Order #...:** LV3K3-SMP **Matrix.....:** SO
LV3K3-DUP
Date Sampled...: 02/24/10 09:00 **Date Received..:** 02/25/10
% Moisture.....: 16

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250463-010		
	83.8	83.8	%	0.092	(0-20)	MCAWW 160.3 MOD	03/01-03/02/10	0060121

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Work Order #...:** LV3LE-SMP LV3LE-DUP **Matrix.....:** SO

Date Sampled...: 02/24/10 13:30 **Date Received..:** 02/25/10

% Moisture.....: 2.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250463-016		
	97.6	97.7	%	0.19	(0-20)	MCAWW 160.3 MOD	03/02-03/03/10	0061106

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0B250463 **Work Order #...:** LV3LM-SMP **Matrix.....:** SO
LV3LM-DUP
Date Sampled...: 02/24/10 10:45 **Date Received..:** 02/25/10
% Moisture.....: 2.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0B250463-020		
	98.0	98.0	%	0.005	(0-20)	MCAWW 160.3 MOD	03/02-03/03/10	0061106

Dilution Factor: 1

Manual Integration Addendum

North Canton

Manual Integration Record

Method ID: __8330-Nitroguanidine__ **Instrument ID:** LC-12 **Lot ID:** A0B250463 soils

Compound Name	Analysis date:										Analysis date: 3/15/10						Analysis date:							
	ICAL										Samples						Samples							
	1	2	3	4	5	6	7	8	ICV	LODV		LCS	4MS	4SD										
Nitroguanidine												X	X	X										

2127

SOLID, 8330B, Explosives

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

initial/continuing calibration standards

interference/performance check standards

initial/continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC10 Batch ID: 03102010
Method : Method 8330 Test : SOP SAC-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
10-MAR-2010	15:29	NS	8330 PRIMER	A-000001.	0 g	0 mL	1	
10-MAR-2010	16:29	NS	8330 PRIMER	A-000002.	0 g	0 mL	1	
10-MAR-2010	17:17	NS	STD_06 09GCSV0482 8330 200ng/m	A-000003.	0 g	0 mL	1	
10-MAR-2010	18:05	NS	LWDNG1AA 0065052 G0C060000-MB	A-000004.	10 g	80 mL	1	
10-MAR-2010	18:54	NS	LWDNG1AC 0065052 G0C060000-LCS	A-000005.	10 g	80 mL	1	
10-MAR-2010	19:43	NS	LV3KM1A4 0065052 A0B250463-1	A-000006.	10 g	80 mL	1	
10-MAR-2010	20:31	NS	LV3KM1A5 0065052 A0B250463-1 D	A-000007.	10.09 g	80 mL	1	NOT NEEDED > NOT RD 3/16/10
10-MAR-2010	21:20	NS	LV3KM1A6 0065052 A0B250463-1TR	A-000008.	10.08 g	80 mL	1	NOT NEEDED REPORTED
10-MAR-2010	22:08	NS	LV3KN1AF 0065052 A0B250463-2	A-000009.	9.98 g	80 mL	1	
10-MAR-2010	22:57	NS	LV3KP1AF 0065052 A0B250463-3	A-000010.	10.06 g	80 mL	1	
10-MAR-2010	23:45	NS	LV3KQ1A8 0065052 A0B250463-4	A-000011.	10.05 g	80 mL	1	
11-MAR-2010	00:34	NS	LV3KR1AK 0065052 A0B250463-5	A-000012.	10.03 g	80 mL	1	
11-MAR-2010	01:22	NS	LV3KT1AF 0065052 A0B250463-6	A-000013.	10.1 g	80 mL	1	
11-MAR-2010	02:11	NS	STD_05 10GCSV0072 8330 100ng/m	A-000014.	0 g	0 mL	1	
11-MAR-2010	02:59	NS	LV3KW1AF 0065052 A0B250463-7	A-000015.	10.06 g	80 mL	1	
11-MAR-2010	03:48	NS	LV3KX1AF 0065052 A0B250463-8	A-000016.	10.02 g	80 mL	1	
11-MAR-2010	04:36	NS	LV3K11AP 0065052 A0B250463-9	A-000017.	10.01 g	80 mL	1	
11-MAR-2010	05:25	NS	LV3K11AQ 0065052 A0B250463-9S	A-000018.	10.06 g	80 mL	1	
11-MAR-2010	06:13	NS	LV3K11AR 0065052 A0B250463-9D	A-000019.	10.01 g	80 mL	1	
11-MAR-2010	07:02	NS	LV3K31AF 0065052 A0B250463-10	A-000020.	10.03 g	80 mL	1	
11-MAR-2010	07:51	NS	LV3K71AF 0065052 A0B250463-11	A-000021.	10.01 g	80 mL	1	
11-MAR-2010	08:39	NS	LV3K81AF 0065052 A0B250463-12	A-000022.	10.06 g	80 mL	1	
11-MAR-2010	09:27	NS	LV3K91A4 0065052 A0B250463-13	A-000023.	10.05 g	80 mL	1	
11-MAR-2010	10:16	NS	LV3LA1AF 0065052 A0B250463-14	A-000024.	10.06 g	80 mL	1	
11-MAR-2010	11:05	NS	STD_05 10GCSV0072 8330 100ng/m	A-000025.	0 g	0 mL	1	
11-MAR-2010	11:53	NS	LV3LC1AN 0065052 A0B250463-15	A-000026.	10 g	80 mL	1	
11-MAR-2010	12:42	NS	LV3LE1AW 0065052 A0B250463-16	A-000027.	9.99 g	80 mL	1	
11-MAR-2010	13:31	NS	LV3LJ1A7 0065052 A0B250463-18	A-000028.	9.98 g	80 mL	1	
11-MAR-2010	14:19	NS	LV3LM1DM 0065052 A0B250463-20	A-000029.	10.03 g	80 mL	1	
11-MAR-2010	15:08	NS	LV3LM1DN 0065052 A0B250463-20S	A-000030.	10.05 g	80 mL	1	
11-MAR-2010	15:56	NS	LV3LM1DP 0065052 A0B250463-20D	A-000031.	10.05 g	80 mL	1	
11-MAR-2010	16:45	NS	LWFV51AA 0068272 G0C090000-MB	A-000032.	10 g	80 mL	1	
11-MAR-2010	17:33	NS	LWFV51AC 0068272 G0C090000-LCS	A-000033.	10 g	80 mL	1	
11-MAR-2010	18:22	NS	LV41M1A8 0068272 A0B260454-1	A-000034.	10.01 g	80 mL	1	
11-MAR-2010	19:10	NS	LV41M1DV 0068272 A0B260454-1S	A-000035.	10.1 g	80 mL	1	
11-MAR-2010	19:59	NS	STD_05 10GCSV0072 8330 100ng/m	A-000036.	0 g	0 mL	1	
11-MAR-2010	20:47	NS	LV41M1DW 0068272 A0B260454-1D	A-000037.	10.03 g	80 mL	1	
11-MAR-2010	21:36	NS	LV41R1AK 0068272 A0B260454-2	A-000038.	10.12 g	80 mL	1	
11-MAR-2010	22:24	NS	LV41V1A4 0068272 A0B260454-3	A-000039.	10.38 g	80 mL	1	
11-MAR-2010	23:13	NS	LV4121AF 0068272 A0B260454-4	A-000040.	10.24 g	80 mL	1	
12-MAR-2010	00:01	NS	LV4141AM 0068272 A0B260454-5	A-000041.	10.09 g	80 mL	1	
12-MAR-2010	00:50	NS	LV4141A6 0068272 A0B260454-5 D	A-000042.	10.17 g	80 mL	1	NOT NEEDED > NOT RD 3/16/10
12-MAR-2010	01:38	NS	LV4141A7 0068272 A0B260454-5 T	A-000043.	10.1 g	80 mL	1	NOT NEEDED REPORTED
12-MAR-2010	02:27	NS	LV42P1A8 0068272 A0B260454-8	A-000044.	10.03 g	80 mL	1	
12-MAR-2010	03:15	NS	LV42V1A6 0068272 A0B260454-9	A-000045.	10.24 g	80 mL	1	
12-MAR-2010	04:03	NS	LV42W1A8 0068272 A0B260454-10	A-000046.	10.12 g	80 mL	1	
12-MAR-2010	04:52	NS	STD_05 10GCSV0072 8330 100ng/m	A-000047.	0 g	0 mL	1	
12-MAR-2010	05:40	NS	LV4211AH 0068272 A0B260454-11	A-000048.	10.51 g	80 mL	1	
12-MAR-2010	06:29	NS	LV43E1A8 0068272 A0B260454-16	A-000049.	10.1 g	80 mL	1	
12-MAR-2010	07:17	NS	LWCWH1A4 0068272 A0C050520-1	A-000050.	10.5 g	80 mL	1	

RD 3/18/10

Sequence continued on next page

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page 2 of Batch 03102010 on Instrument LC10
For header information, refer to the first page of this batch's log.

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
12-MAR-2010	08:06	NS	LWCWJ1A8 0068272 A0C050520-2	A-000051.	10.67 g	80 mL	1	
12-MAR-2010	08:54	NS	LWA2A1AA 0064081 G0C050000-MB	A-000052.	1000 mL	20 mL	1	
12-MAR-2010	09:43	NS	LWA2A1AD 0064081 G0C050000-FB	A-000053.	1000 mL	20 mL	1	
12-MAR-2010	10:31	NS	LWA2A1AC 0064081 G0C050000-LCS	A-000054.	1000 mL	20 mL	1	
12-MAR-2010	11:20	NS	LV84V1AA 0064081 C0C030509-1	A-000055.	1011.97 mL	20 mL	1	
12-MAR-2010	12:08	NS	LV84V1AC 0064081 C0C030509-1S	A-000056.	1020.77 mL	20 mL	1	
12-MAR-2010	12:57	NS	LV84V1AD 0064081 C0C030509-1D	A-000057.	1008.53 mL	20 mL	1	
12-MAR-2010	13:45	NS	STD_05 10GCSV0072 8330 100ng/m	A-000058.	0 g	0 mL	1	
12-MAR-2010	14:34	NS	LV8411AE 0064081 C0C030509-3	A-000059.	1001.62 mL	20 mL	1	
12-MAR-2010	15:23	NS	LV8431AE 0064081 C0C030509-4	A-000060.	994.64 mL	20 mL	1	
12-MAR-2010	16:11	NS	LV8441AE 0064081 C0C030509-5	A-000061.	997.42 mL	20 mL	1	
12-MAR-2010	17:00	NS	LV8481AA 0064081 C0C030509-7	A-000062.	996.43 mL	20 mL	1	
12-MAR-2010	17:48	NS	LV85E1AA 0064081 C0C030509-10	A-000063.	1016.81 mL	20 mL	1	
12-MAR-2010	18:37	NS	LV85G1AC 0064081 C0C030509-11	A-000064.	1019.78 mL	20 mL	1	
12-MAR-2010	19:25	NS	LV85H1AD 0064081 C0C030509-12	A-000065.	1012.38 mL	20 mL	1	
12-MAR-2010	20:14	NS	LWA751AA 0064140 G0C050000-MB	A-000066.	1000 mL	20 mL	1	
12-MAR-2010	21:02	NS	LWA751AC 0064140 G0C050000-LCS	A-000067.	1000 mL	20 mL	1	
12-MAR-2010	21:51	NS	LV7MC1A5 0064140 A0C020458-13	A-000068.	1003.86 mL	20 mL	1	
12-MAR-2010	22:39	NS	STD_05 10GCSV0072 8330 100ng/m	A-000069.	0 g	0 mL	1	
12-MAR-2010	23:28	NS	LV7ML1AG 0064140 A0C020458-14	A-000070.	1018.15 mL	20 mL	1	
13-MAR-2010	00:16	NS	LV7MM1AT 0064140 A0C020458-15	A-000071.	984.56 mL	20 mL	1	
13-MAR-2010	01:05	NS	LV7MN1A5 0064140 A0C020458-16	A-000072.	974 mL	20 mL	1	
13-MAR-2010	01:53	NS	LV7MR1A5 0064140 A0C020458-18	A-000073.	1006.24 mL	20 mL	1	
13-MAR-2010	02:41	NS	STD_05 10GCSV0072 8330 100ng/m	A-000074	0 g	0 mL	1	

TestAmerica West Sacramento

A-000003.D

Chromatography Summary

Injection Date: 3/10/2010 17 17 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000003 D **Vial Num:** 2

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **STD_06 09GCSV0482 8330 200ng/mL**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_06 09GCSV0482 8330 200ng/mL;2

Misc. Info: ,6, , , ,3;CAL sub, ;0,1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18 45	9359	194 1000<	200	-3%	Acceptable		18 45	19213	196.8000	200	-2%	Acceptable		(±15)	
HMX	5 46	26309	197 5000<	200	-1%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
RDX	7.99	18578	205 9000<	200	3%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
Picric ACID	9 20	43563	497 0000	500	-1%	Acceptable		9 20	64428	500 6000<	500	0%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.54	32436	201 6000<	200	1%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
1,3-Dinitrobenzene	13 51	31585	201 1000<	200	1%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
TETRYL	14.92	18351	209.0000<	200	5%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
Nitrobenzene	15 34	14558	196 6000<	200	-2%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
2,4,6-Trinitrotoluene	17.16	18988	198 7000<	200	-1%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
4-AM-2,6-DNT	17 90	13972	196.0000<	200	-2%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
2-AM-4,6-DNT	19 02	15778	194 4000<	200	-3%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
2,6-Dinitrotoluene	20 71	10883	192 2000<	200	-4%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
2,4-Dinitrotoluene	21.49	17846	194.2000<	200	-3%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
2-Nitrotoluene	25 00	8039	197.4000<	200	-1%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
4-Nitrotoluene	26 97	9679	198 7000<	200	-1%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
3-Nitrotoluene	29 04	9456	197 0000<	200	-2%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
Nitroglycerin				**200**	**-100%**	**Fails**		16.19	12914	206 0000<	200	3%	Acceptable		(±15)	45
PETN				**200**	**-100%**	**Fails**		32 32	6247	197 6000<	200	-1%	Acceptable		(±15)	45
3,5-Dinitroaniline	14 39	20536	199.4000<	200	0%	Acceptable					**200**	**-100%**	**Fails**		(±15)	45
EGDN				**200**	**-100%**	**Fails**					**200**	**-100%**	**Fails**		(±15)	

m 3/11/10

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed: 3/11/2010 9:27 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000003.D
Lab Smp Id: STD_06 09GCSV0482 8
Inj Date : 10-MAR-2010 17:17
Operator : NS Inst ID: LC10.i
Smp Info : STD_06 09GCSV0482 8330 200ng/mL;2
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

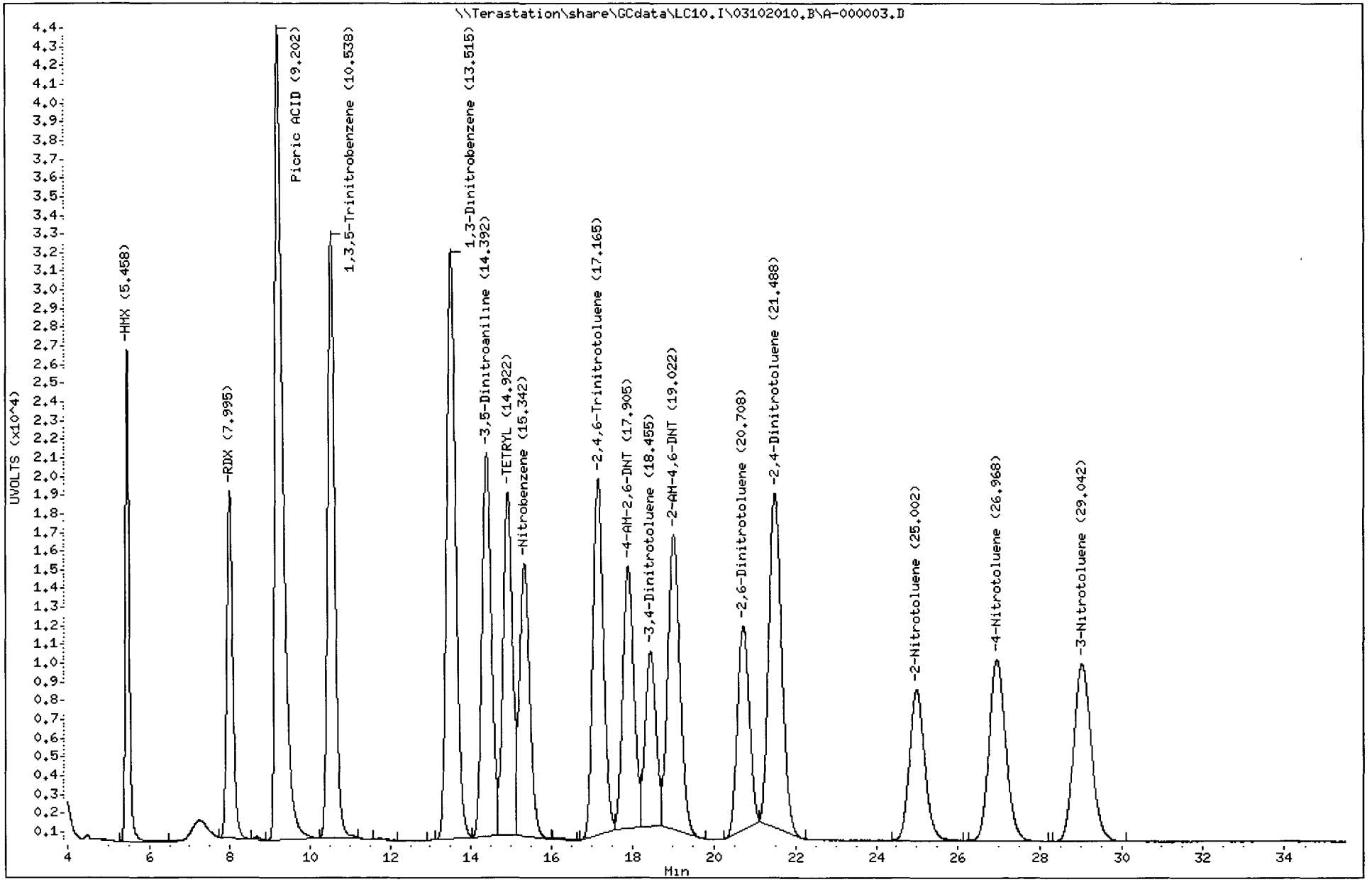
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.458	168482	26309	0.156	8.21		2	HMX
7.995	190835	18578	0.097	5.80		3	RDX
8.681	1552	158	0.102	0.04			
9.202	593420	43563	0.073	13.69		5	Picric ACID
10.538	405441	32436	0.080	10.12		6	1,3,5-Trinitrobenze
11.748	1300	80	0.062	0.02			
13.088	254	44	0.173	0.01			
13.515	491238	31585	0.064	9.86		7	1,3-Dinitrobenzene
14.392	335791	20536	0.061	6.41		8	3,5-Dinitroaniline
14.922	297614	18351	0.062	5.72		9	TETRYL
15.342	255620	14558	0.057	4.54		10	Nitrobenzene
16.185	1414	98	0.069	0.03			
17.165	339523	18988	0.056	5.92		12	2,4,6-Trinitrotolue
17.905	261710	13972	0.053	4.36		13	4-AM-2,6-DNT
18.455	173457	9359	0.054	2.92	$	1	3,4-Dinitrotoluene
19.022	326572	15778	0.048	4.92		14	2-AM-4,6-DNT
20.708	221237	10883	0.049	3.39		15	2,6-Dinitrotoluene
21.488	389192	17846	0.046	5.57		16	2,4-Dinitrotoluene
25.002	210048	8039	0.038	2.50		17	2-Nitrotoluene
26.968	274061	9679	0.035	3.02		18	4-Nitrotoluene
29.042	285035	9456	0.033	2.95		19	3-Nitrotoluene
	5223796	320296		100.000			

Total unknown % height = 0.1000

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000003.D
Date : 10-MAR-2010 17:17
Client ID:
Sample Info: STD_06 09GCSV0482 8330 200ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Test America West Sacramento

Method 8330

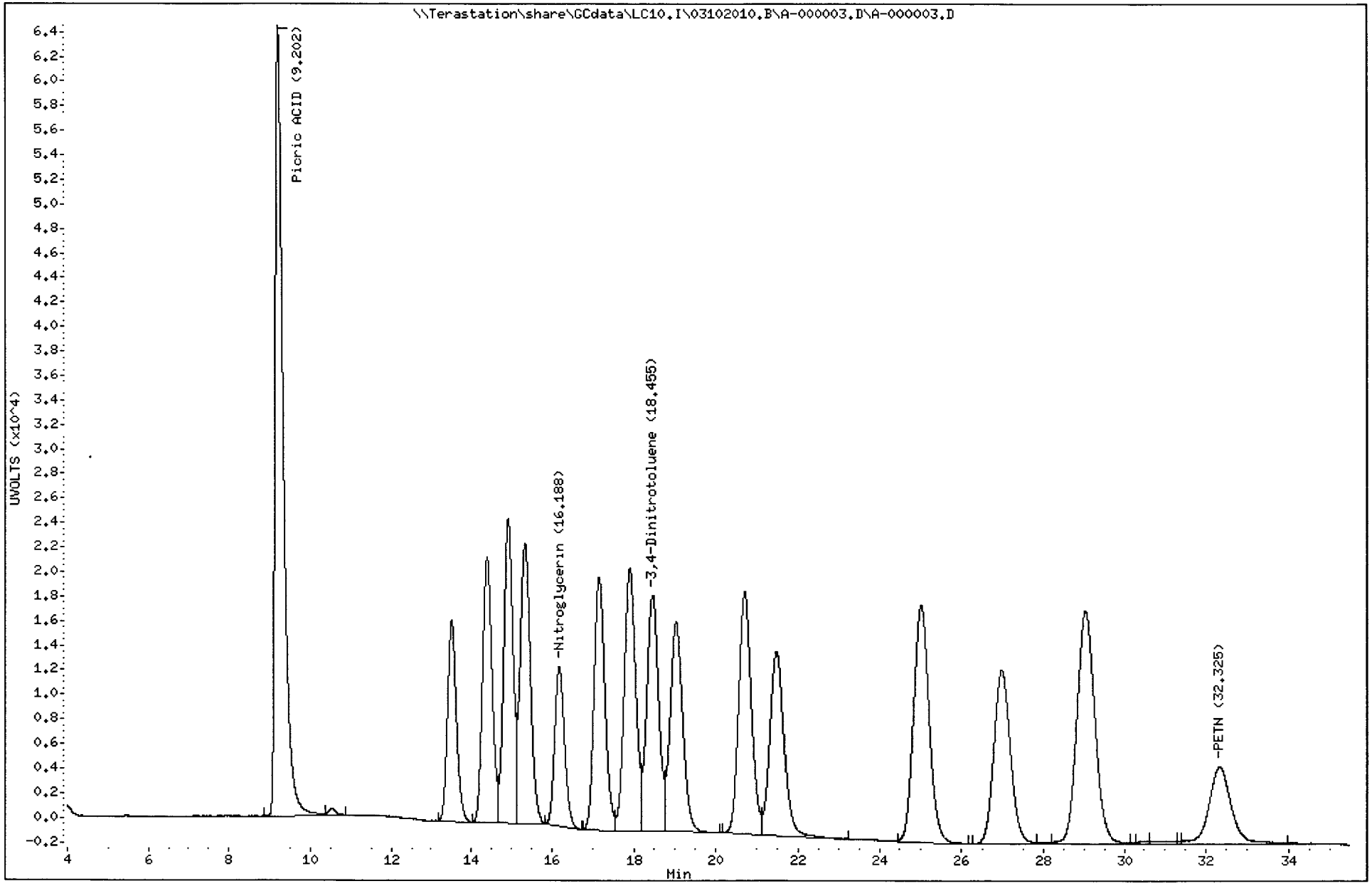
Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000003.D\A-000003
Lab Smp Id: STD_06 09GCSV0482 8
Inj Date : 10-MAR-2010 17:17
Operator : NS Inst ID: LC10.i
Smp Info : STD_06 09GCSV0482 8330 200ng/mL;2
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.202	883732	64428	0.073	19.32		5 Picric ACID
10.538	7064	532	0.075	0.15		
13.515	252908	16401	0.065	4.88		
14.392	351516	21556	0.061	6.42		
14.922	400981	24751	0.062	7.37		
15.338	402366	22820	0.057	6.79		
16.188	218995	12914	0.059	3.84		11 Nitroglycerin
17.165	375206	20540	0.055	6.11		
17.905	417264	21377	0.051	6.36		
18.455	375449	19213	0.051	5.72	$	1 3,4-Dinitrotoluene
19.022	367051	17053	0.046	5.07		
20.708	430618	19697	0.046	5.86		
21.485	351820	14901	0.042	4.43		
24.998	501336	19235	0.038	5.72		
26.965	397045	14105	0.036	4.20		
28.202	2280	129	0.057	0.03		
29.042	576921	18931	0.033	5.63		
30.245	927	152	0.164	0.04		
30.568	3637	230	0.063	0.06		
31.088	8550	236	0.028	0.07		
31.352	1715	251	0.146	0.07		
32.325	238259	6247	0.026	1.86		20 PETN
	6565639	335699		100.000		

Total unknown % height = 69.26

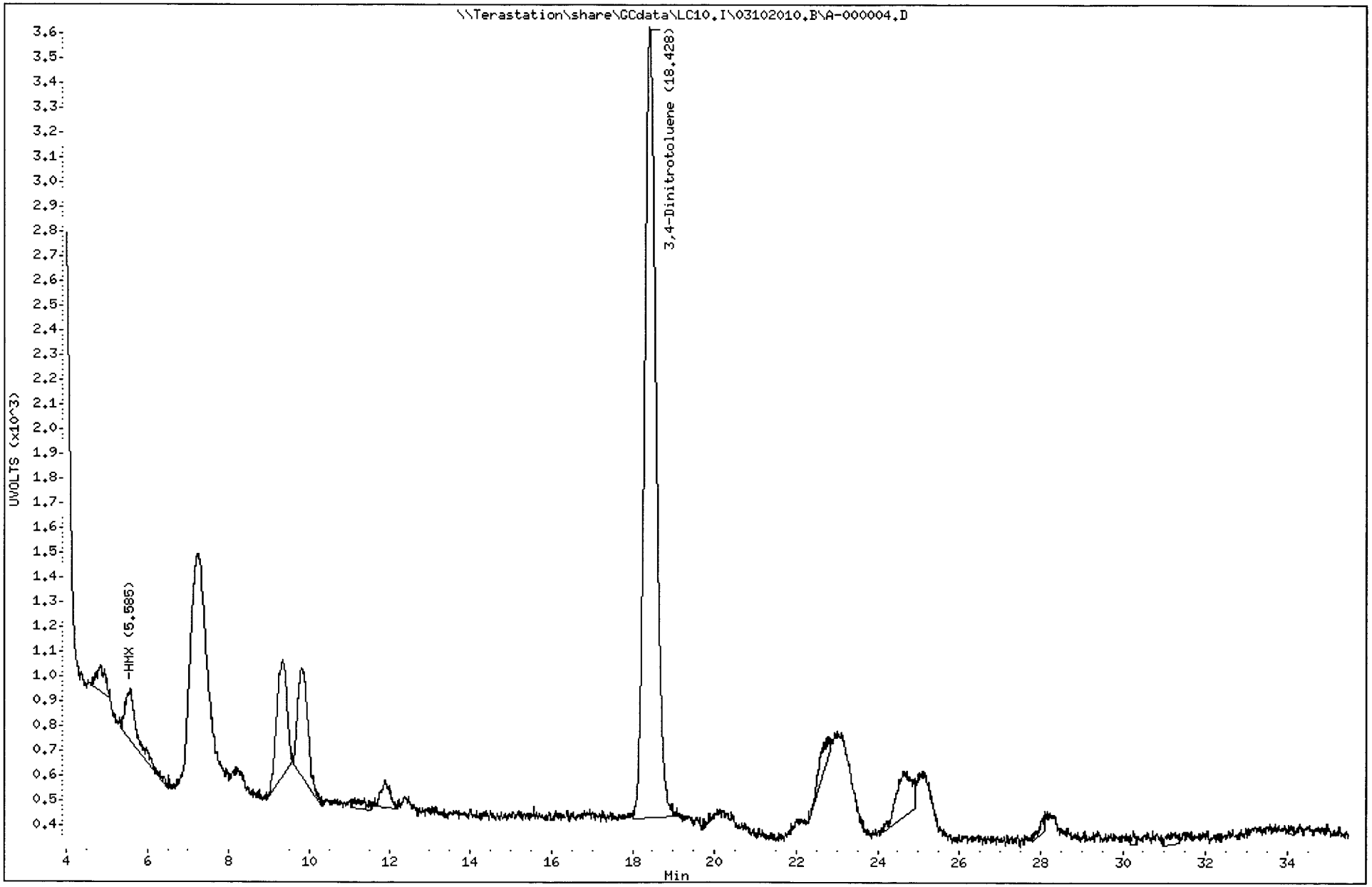
Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000003.D\A-000003.D
Date : 10-MAR-2010 17:17
Client ID:
Sample Info: STD_06 09GCSV0482 8330 200ng/mL;2

Instrument: LC10.i
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000004.D
Date : 10-MAR-2010 18:05
Client ID:
Sample Info: LWDNG1AA 0065052 G0C060000-MB:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



2138

North Canton

TestAmerica West Sacramento

A-000004.D

Chromatography Summary

Injection Date: 3/10/2010 18:05 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000004 D **Vial Num:** 11

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LWDNG1AA 0065052 G0C060000-MB** **Method File:** LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	**80 mL**	**0 mL**	**10 g**

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LWDNG1AA 0065052 G0C060000-MB.0

Misc. Info: ,,,10 00:80:2,SOLIDBQSM sub, ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.43**	**-0.027**	**3196**	**530.2000<**		**18.42**	**0.027**	**6127**	**502.1000**		**0.0000**	**0.00**	
HMX	5 58	0.127	212	12.7300< not conf							12 1000	250 00	45
RDX											12 0000	250 00	
Picric ACID											100 0000	1000 00	
1,3,5-Trinitrobenzene											10 0000	250.00	
1,3-Dinitrobenzene											4 2000	250 00	
TETRYL											10 0000	250 00	
Nitrobenzene											17 6000	250 00	
2,4,6-Trinitrotoluene											19 4000	250 00	
4-AM-2,6-DNT											10 0000	250.00	
2-AM-4,6-DNT											12 5000	300 00	
2,6-Dinitrotoluene											7 3000	250 00	
2,4-Dinitrotoluene											5 3000	250.00	
2-Nitrotoluene											13 0000	250 00	
4-Nitrotoluene											18.2000	500.00	
3-Nitrotoluene											15.5000	250.00	
Nitroglycerin											15.0000	500 00	
PETN											25 0000	500 00	
3,5-Dinitroaniline											8 8000	1300 00	

mr 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**530.2000**	**106**	**500.0000**	**502.1000**	**100**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 9:16 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000004.D
Lab Smp Id: LWDNG1AA 0065052 G0
Inj Date : 10-MAR-2010 18:05
Operator : NS Inst ID: LC10.i
Smp Info : LWDNG1AA 0065052 G0C060000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
4.852	1564	112	0.072	2.20	
5.585	4269	212	0.050	4.16	2 HMX
9.322	8412	473	0.056	9.29	
9.802	7577	435	0.057	8.55	
11.148	648	37	0.057	0.72	
11.902	1689	110	0.065	2.16	
18.428	61955	3196	0.052	62.90	$ 1 3,4-Dinitrotoluene
19.858	153	38	0.248	0.74	
22.792	2022	88	0.044	1.72	
24.642	4868	187	0.038	3.67	
28.092	573	62	0.108	1.21	
30.248	255	53	0.208	1.04	
31.078	789	46	0.058	0.90	
34.118	174	38	0.218	0.74	
	94949	5087		100.000	

Total unknown % height = 32.94

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000004.D\A-000004
Lab Smp Id: LWDNG1AA 0065052 G0
Inj Date : 10-MAR-2010 18:05
Operator : NS Inst ID: LC10.i
Smp Info : LWDNG1AA 0065052 G0C060000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

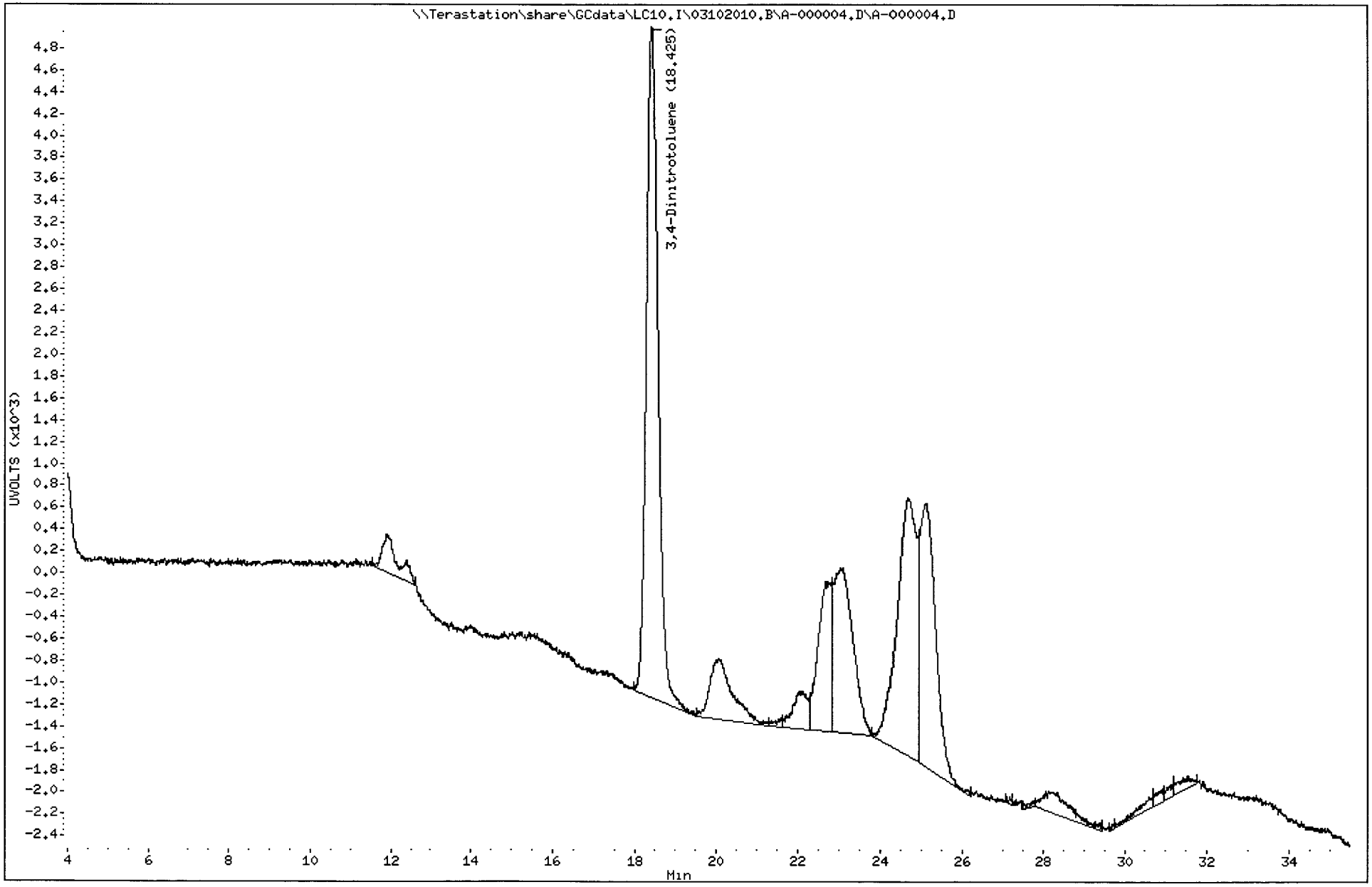
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
11.898	9561	355	0.037	2.24	
18.425	120917	6127	0.051	38.76	$ 1 3,4-Dinitrotoluene
20.062	21200	551	0.026	3.47	
21.605	790	77	0.097	0.48	
22.102	8889	342	0.038	2.15	
22.745	29312	1373	0.047	8.66	
23.108	50439	1505	0.030	9.49	
24.658	74215	2356	0.032	14.86	
25.102	67628	2408	0.036	15.19	
27.098	409	53	0.130	0.33	
27.645	596	45	0.075	0.28	
28.132	9120	186	0.020	1.17	
29.718	156	39	0.250	0.24	
30.675	2606	98	0.038	0.61	
30.918	1459	113	0.077	0.71	
31.175	1420	106	0.075	0.66	
31.432	2440	111	0.045	0.70	
	401156	15845		100.000	

Total unknown % height = 61.24

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000004.D\A-000004.D
Date : 10-MAR-2010 18:05
Client ID:
Instrument: LC10.i
Sample Info: LWDNG1AA 0065052 G0C060000-MB:0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



2142

North Canton

TestAmerica West Sacramento

A-000005.D

Chromatography Summary

Injection Date: 3/10/2010 18 54 **Operator:** NS

DataFile: LC10 I\03102010.B\A-000005 D **Vial Num:** 12

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LWDNG1AC 0065052 G0C060000-LCS**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:** SOLIDBQSM sp

Samp. Info: LWDNG1AC 0065052 G0C060000-LCS,3

Misc. Info: LCS;;,10 00,80;2,SOLIDBQSM.sub,SOLIDBQSM spk,1,1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18 41	2968	492 4000<	500	98%	Acceptable		18.42	6190	507 3000	500	101%	Acceptable		(81-127)	
HMX	5 45	8255	495.7000<	500	99%	Acceptable					**500**	**0%**	**Fails**		(75-125)	45
RDX	7 98	5644	500.4000<	500	100%	Acceptable					**500**	**0%**	**Fails**		(70-135)	45
Picric ACID				**5000**	**0%**	**Fails**					**5000**	**0%**	**Fails**		(70-130)	
1,3,5-Trinitrobenzene	10 52	9972	495.9000<	500	99%	Acceptable					**500**	**0%**	**Fails**		(75-125)	45
1,3-Dinitrobenzene	13 48	9681	493 2000<	500	99%	Acceptable					**500**	**0%**	**Fails**		(80-125)	45
TETRYL	14 89	4720	430 0000<	500	86%	Acceptable					**500**	**0%**	**Fails**		(10-150)	45
Nitrobenzene	15 30	4405	476 0000<	500	95%	Acceptable					**500**	**0%**	**Fails**		(75-125)	45
2,4,6-Trinitrotoluene	17.13	5393	451 5000<	500	90%	Acceptable					**500**	**0%**	**Fails**		(55-140)	45
4-AM-2,6-DNT	17.86	4217	473 3000<	500	95%	Acceptable					**500**	**0%**	**Fails**		(80-125)	45
2-AM-4,6-DNT	18 96	4877	480.7000<	500	96%	Acceptable					**500**	**0%**	**Fails**		(80-125)	45
2,6-Dinitrotoluene	20 66	3369	475.9000<	500	95%	Acceptable					**500**	**0%**	**Fails**		(80-120)	45
2,4-Dinitrotoluene	21 43	5483	477 4000<	500	95%	Acceptable					**500**	**0%**	**Fails**		(80-125)	45
2-Nitrotoluene	24.94	2732	536 6000<	500	107%	Acceptable					**500**	**0%**	**Fails**		(80-125)	45
4-Nitrotoluene	26.90	2991	491 2000<	500	98%	Acceptable					**500**	**0%**	**Fails**		(75-125)	45
3-Nitrotoluene	28 97	2913	485 4000<	500	97%	Acceptable					**500**	**0%**	**Fails**		(75-120)	45
Nitroglycerin				**1000**	**0%**	**Fails**		16 16	8117	1036 0000<	1000	104%	Acceptable		(74-112)	45
PETN				**1000**	**0%**	**Fails**		32 32	3964	1003 0000<	1000	100%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14 35	6246	485 2000<	500	97%	Acceptable					**500**	**0%**	**Fails**		(40-140)	45

m 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**492.4000**	**98**	**500.0000**	**507.3000**	**101**	**(81-127)**

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000005.D
Lab Smp Id: LWDNG1AC 0065052 G0
Inj Date : 10-MAR-2010 18:54
Operator : NS Inst ID: LC10.i
Smp Info : LWDNG1AC 0065052 G0C060000-LCS;3
Misc Info : LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

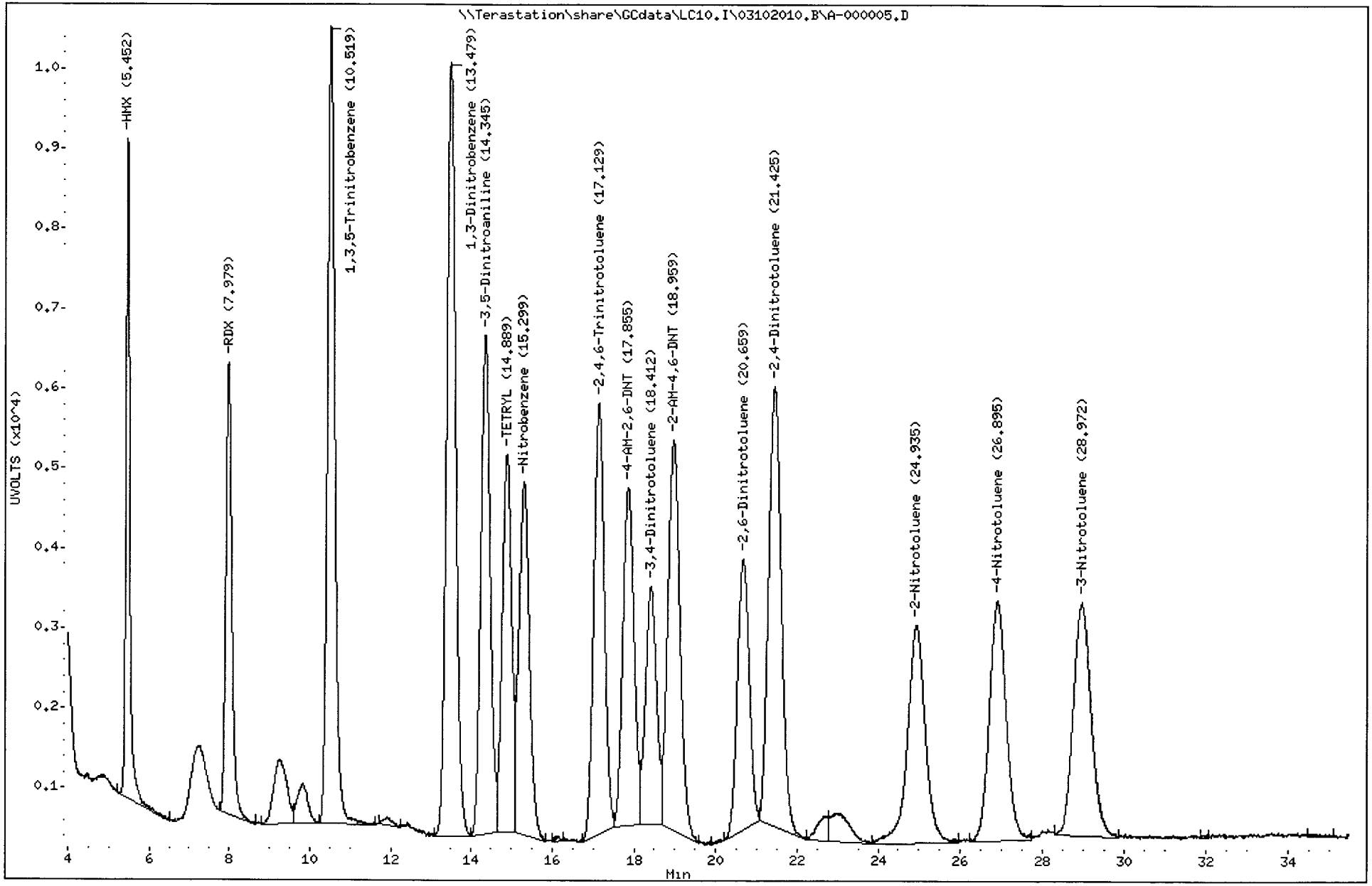
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.452	57422	8255	0.144	9.58		2	HMX
7.979	59698	5644	0.095	6.55		3	RDX
9.255	18565	801	0.043	0.93			
9.839	9343	504	0.054	0.58			
10.519	127332	9972	0.078	11.70		6	1,3,5-Trinitrobenze
11.899	1635	100	0.061	0.11			
13.479	151794	9681	0.064	11.24		7	1,3-Dinitrobenzene
14.345	102523	6246	0.061	7.25		8	3,5-Dinitroaniline
14.889	75445	4720	0.063	5.48		9	TETRYL
15.299	77832	4405	0.057	5.11		10	Nitrobenzene
16.089	419	53	0.126	0.06			
17.129	95580	5393	0.056	6.26		12	2,4,6-Trinitrotolue
17.855	79884	4217	0.053	4.89		13	4-AM-2,6-DNT
18.412	54589	2968	0.054	3.44	$	1	3,4-Dinitrotoluene
18.959	100274	4877	0.049	5.66		14	2-AM-4,6-DNT
20.129	352	33	0.094	0.03			
20.659	68346	3369	0.049	3.91		15	2,6-Dinitrotoluene
21.425	119244	5483	0.046	6.36		16	2,4-Dinitrotoluene
22.662	5276	309	0.059	0.35			
23.049	12504	362	0.029	0.42			
24.935	82637	2732	0.033	3.17		17	2-Nitrotoluene
26.895	84924	2991	0.035	3.47		18	4-Nitrotoluene
28.972	87562	2913	0.033	3.38		19	3-Nitrotoluene
31.922	319	43	0.135	0.04			

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
34.519	805	34	0.042	0.03	
	1474306	86105		100.000	

Total unknown % height = 2.550

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000005.D
Date : 10-MAR-2010 18:54
Client ID:
Sample Info: LWDNG1AC 0065052 G0C060000-LCS:3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000005.D\A-000005
Lab Smp Id: LWDNG1AC 0065052 G0
Inj Date : 10-MAR-2010 18:54
Operator : NS Inst ID: LC10.i
Smp Info : LWDNG1AC 0065052 G0C060000-LCS;3
Misc Info : LCS;;;10.00;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

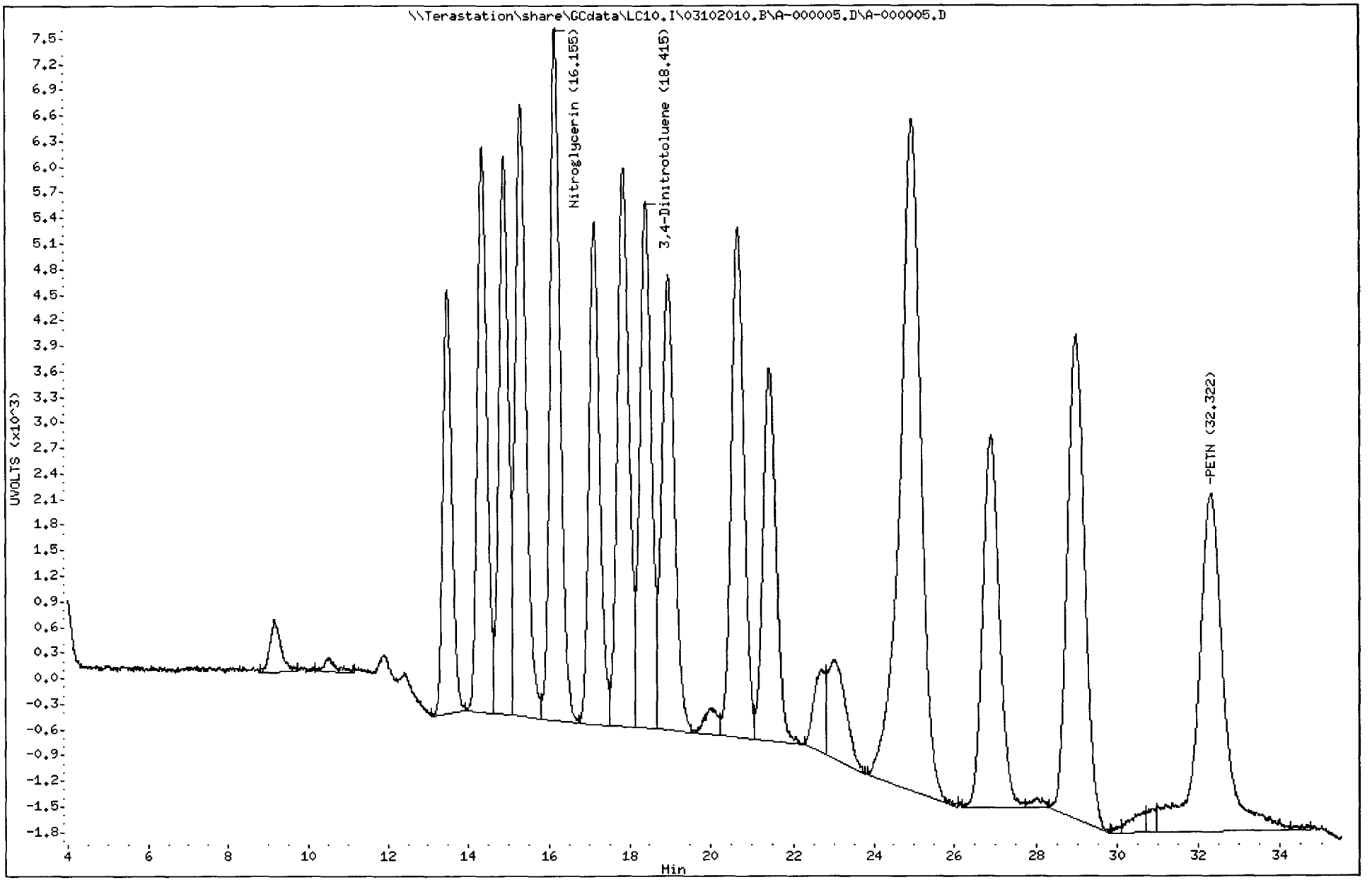
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.149	11749	616	0.052	0.65		
10.535	3760	169	0.045	0.18		
13.479	76073	4964	0.065	5.30		
14.349	109240	6636	0.061	7.08		
14.895	106551	6553	0.062	6.99		
15.302	133503	7174	0.054	7.66		
16.155	142717	8117	0.057	8.79		11 Nitroglycerin
17.132	108384	5896	0.054	6.29		
17.859	131452	6549	0.050	6.99		
18.415	121310	6190	0.051	6.60	$	1 3,4-Dinitrotoluene
18.955	115889	5333	0.046	5.69		
20.005	6746	312	0.046	0.33		
20.659	128626	5983	0.047	6.38		
21.419	95426	4362	0.046	4.65		
22.689	18453	970	0.053	1.03		
22.999	37130	1158	0.031	1.23		
24.942	276835	7872	0.028	8.40		
26.895	122489	4352	0.036	4.64		
28.035	2303	121	0.053	0.12		
28.969	166922	5680	0.034	6.06		
30.079	895	86	0.096	0.09		
30.652	5918	254	0.043	0.27		
30.905	4298	284	0.066	0.30		
32.322	173066	3964	0.023	4.23		20 PETN

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
34.432	975	51	0.052	0.05	
	2100711	93646		100.000	

Total unknown % height = 80.38

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000005.D\A-000005.D
Date : 10-MAR-2010 18:54
Client ID:
Sample Info: LWDNG1AC 0065052 G0C060000-LCS;3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000006.D

Chromatography Summary

Injection Date: 3/10/2010 19:43 **Operator:** NS

DataFile: LC10.I\03102010 B\A-000006 D **Vial Num:** 13

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3KM1A4 0065052 A0B250463-1**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KM1A4 0065052 A0B250463-1,0

Misc. Info: ,,,10 00:80,2,SOLIDBQSM sub; ,0:1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.43**	**-0.028**	**3218**	**533.8000<**		**18.43**	**0.029**	**6157**	**504.6000**		**0.0000**	**0.00**	
HMX	5 49	0 029	335	20.7200< not cond.							12 1000	250 00	45
RDX											12 0000	250 00	
Picric ACID											100 0000	1000 00	
1,3,5-Trinitrobenzene											10 0000	250 00	
1,3-Dinitrobenzene											4 2000	250 00	
TETRYL											10 0000	250 00	
Nitrobenzene											17 6000	250.00	
2,4,6-Trinitrotoluene											19 4000	250 00	
4-AM-2,6-DNT											10 0000	250 00	
2-AM-4,6-DNT											12 5000	300 00	
2,6-Dinitrotoluene											7 3000	250 00	
2,4-Dinitrotoluene											5 3000	250 00	
2-Nitrotoluene											13 0000	250.00	
4-Nitrotoluene											18.2000	500 00	
3-Nitrotoluene											15 5000	250 00	
Nitroglycerin											15 0000	500 00	
PETN											25 0000	500 00	
3,5-Dinitroaniline											8.8000	1300 00	

m 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**533.8000**	**107**	**500.0000**	**504.6000**	**101**	**(81-127)**

Notes.
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/11/2010 9:17 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000006.D
Lab Smp Id: LV3KM1A4 0065052 A0
Inj Date : 10-MAR-2010 19:43
Operator : NS Inst ID: LC10.i
Smp Info : LV3KM1A4 0065052 A0B250463-1;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

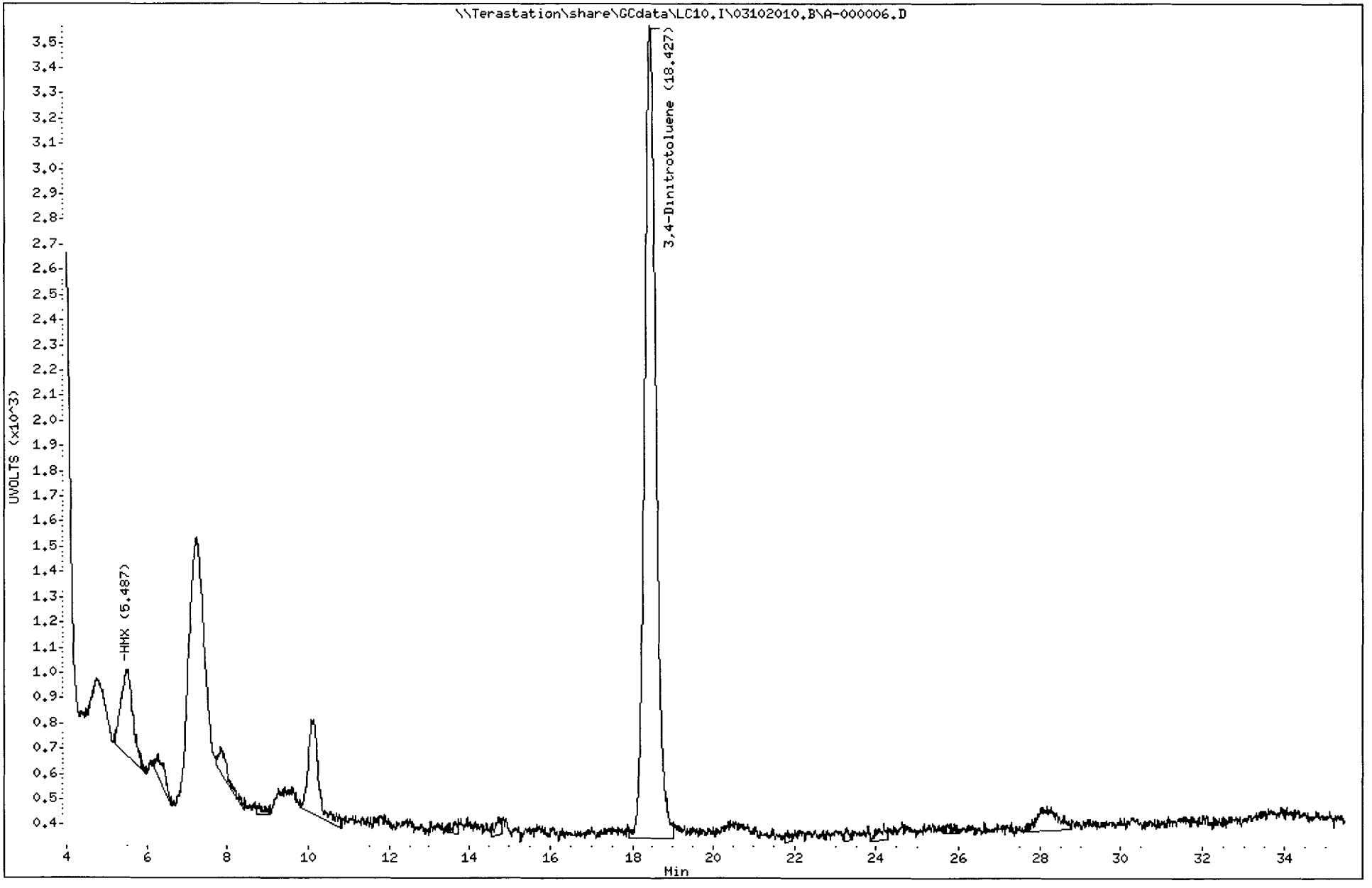
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.487	7074	335	0.047	7.38		2 HMX
6.267	1299	82	0.063	1.80		
7.831	1690	96	0.057	2.11		
8.797	444	44	0.099	0.96		
10.081	6558	369	0.056	8.13		
13.651	386	46	0.119	1.01		
14.747	682	70	0.103	1.54		
18.427	63623	3218	0.051	70.96	$	1 3,4-Dinitrotoluene
21.851	249	47	0.189	1.03		
23.277	321	51	0.159	1.12		
24.084	748	46	0.061	1.01		
25.811	412	40	0.097	0.88		
28.027	3258	94	0.029	2.07		
	86744	4538		100.000		

Total unknown % height = 21.66

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000006.D
Date : 10-MAR-2010 19:43
Client ID:
Sample Info: LV3KM1A4 0065052 A0B250463-1;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



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North Canton

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000006.D\A-000006
Lab Smp Id: LV3KM1A4 0065052 A0
Inj Date : 10-MAR-2010 19:43
Operator : NS Inst ID: LC10.i
Smp Info : LV3KM1A4 0065052 A0B250463-1;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

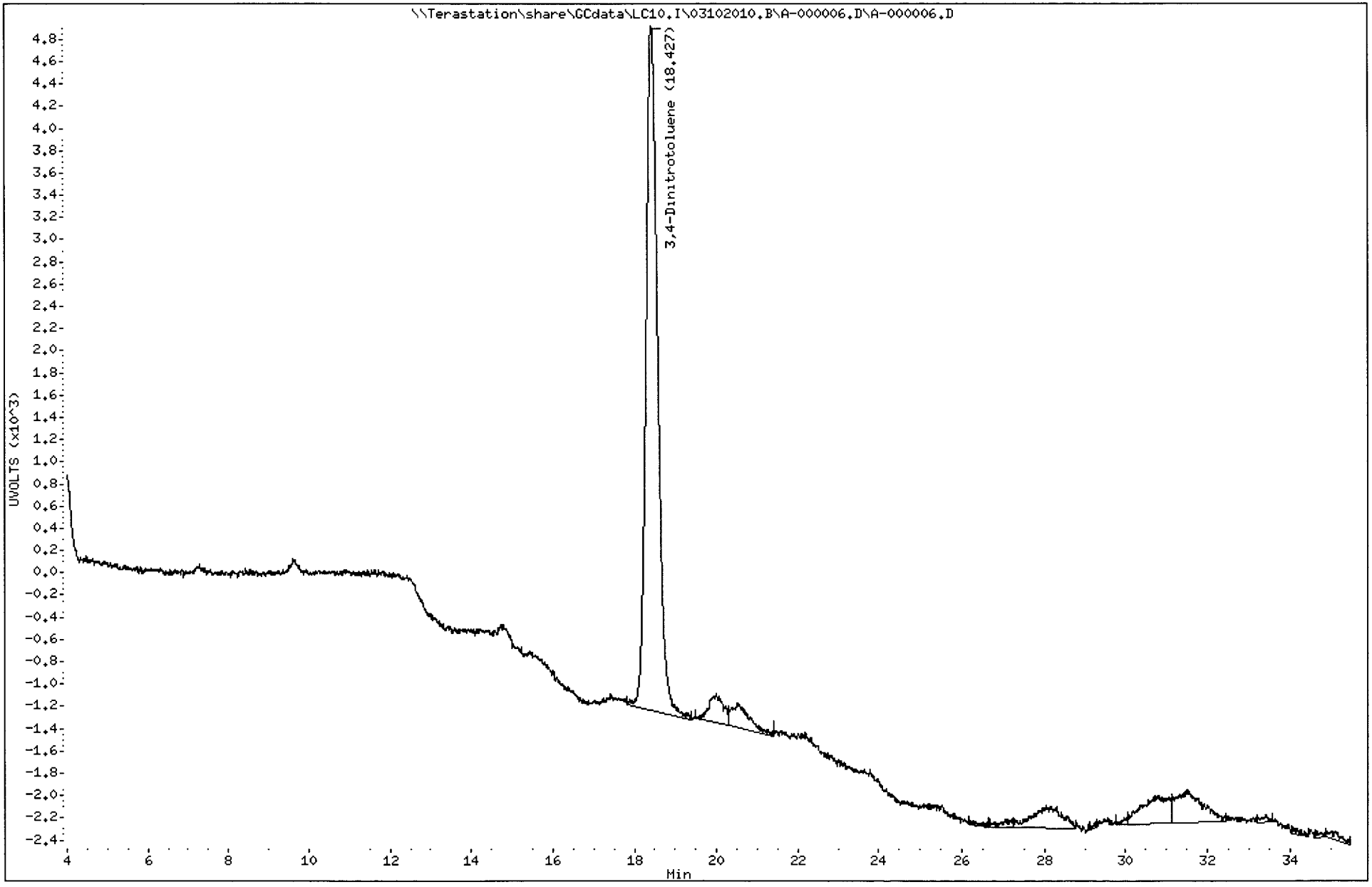
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.427	122171	6157	0.050	78.12	$ 1 3,4-Dinitrotoluene
19.997	6349	262	0.041	3.32	
20.504	6732	213	0.032	2.70	
26.264	638	42	0.066	0.53	
27.054	1264	75	0.059	0.95	
28.031	9663	200	0.021	2.53	
29.247	288	60	0.208	0.76	
30.024	523	57	0.109	0.72	
30.807	11028	249	0.023	3.15	
31.511	13274	293	0.022	3.71	
33.407	825	70	0.085	0.88	
34.071	788	64	0.081	0.81	
34.664	541	61	0.113	0.77	
35.114	1534	83	0.054	1.05	
	175618	7886		100.000	

Total unknown % height = 21.88

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000006.D\A-000006.D
Date : 10-MAR-2010 19:43
Client ID:
Instrument: LC10.i
Sample Info: LV3KM1A4 0065052 A0B250463-1;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



2154

North Canton

TestAmerica West Sacramento

A-000009.D

Chromatography Summary

Injection Date: 3/10/2010 22 08 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000009 D **Vial Num:** 16

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3KN1AF 0065052 A0B250463-2**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23.38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	**80 mL**	**0 mL**	**9.98 g**

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KN1AF 0065052 A0B250463-2,0

Misc. Info: ,,,9 98;80,2;SOLIDBQSM.sub, ,0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.43**	**-0.027**	**3245**	**539.4000<**		**18.42**	**0.023**	**6179**	**507.4000**		**0.0000**	**0.00**	
HMX	5 49	0 036	253	15 2200							12 1242	251 00	45
RDX											12 0240	251 00	
Picric ACID											100.2004	1004 01	
1,3,5-Trinitrobenzene											10 0200	251.00	
1,3-Dinitrobenzene											4 2084	251.00	
TETRYL											10 0200	251 00	
Nitrobenzene											17 6353	251 00	
2,4,6-Trinitrotoluene											19 4389	251 00	
4-AM-2,6-DNT											10 0200	251 00	
2-AM-4,6-DNT											12 5251	301 20	
2,6-Dinitrotoluene											7 3146	251.00	
2,4-Dinitrotoluene											5 3106	251 00	
2-Nitrotoluene											13 0261	251 00	
4-Nitrotoluene											18 2365	502 01	
3-Nitrotoluene											15 5311	251 00	
Nitroglycerin											15.0301	502.01	
PETN											25 0501	502 01	
3,5-Dinitroaniline											8 8176	1305.22	

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**501.0020**	**539.4000**	**108**	**501.0020**	**507.4000**	**101**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 9:18 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000009.D
Lab Smp Id: LV3KN1AF 0065052 A0
Inj Date : 10-MAR-2010 22:08
Operator : NS Inst ID: LC10.i
Smp Info : LV3KN1AF 0065052 A0B250463-2;0
Misc Info : ;;;9.98;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

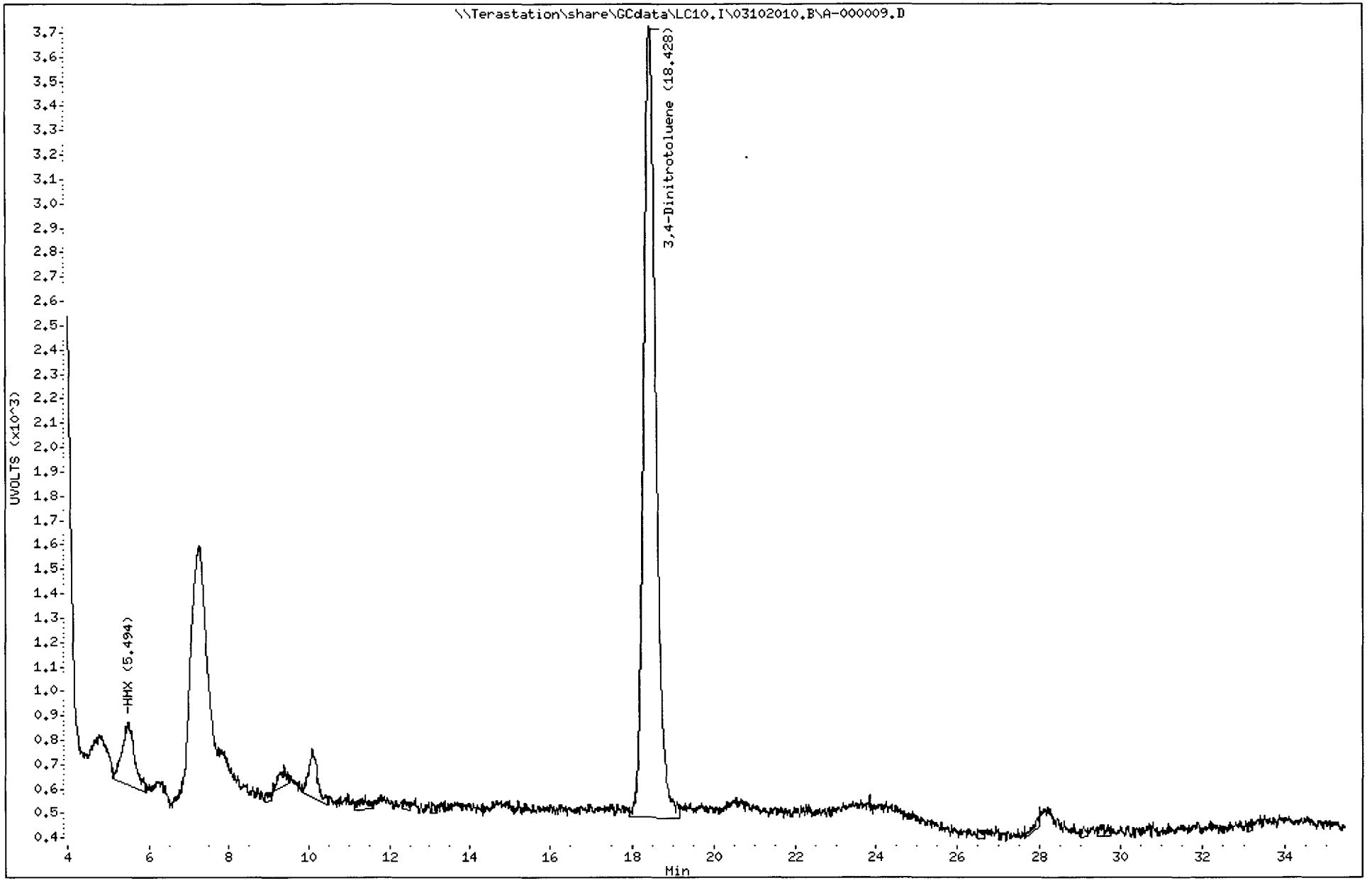
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.980	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.494	5344	253	0.047	6.09		2 HMX
8.954	250	38	0.152	0.91		
9.318	1007	64	0.064	1.54		
10.084	2998	198	0.066	4.77		
11.351	725	46	0.063	1.10		
12.384	283	44	0.155	1.06		
13.061	206	48	0.233	1.15		
18.428	65495	3245	0.050	78.29	$	1 3,4-Dinitrotoluene
26.511	238	33	0.139	0.79		
28.004	473	47	0.099	1.13		
29.088	248	42	0.169	1.01		
29.564	478	45	0.094	1.08		
33.161	200	45	0.225	1.08		
	77945	4148		100.000		

Total unknown % height = 15.62

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000009.D
Date : 10-MAR-2010 22:08
Client ID:
Sample Info: LV3KN1AF 0065052 A0B250463-2:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000009.D\A-000009
Lab Smp Id: LV3KN1AF 0065052 A0
Inj Date : 10-MAR-2010 22:08
Operator : NS Inst ID: LC10.i
Smp Info : LV3KN1AF 0065052 A0B250463-2;0
Misc Info : ;;;9.98;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

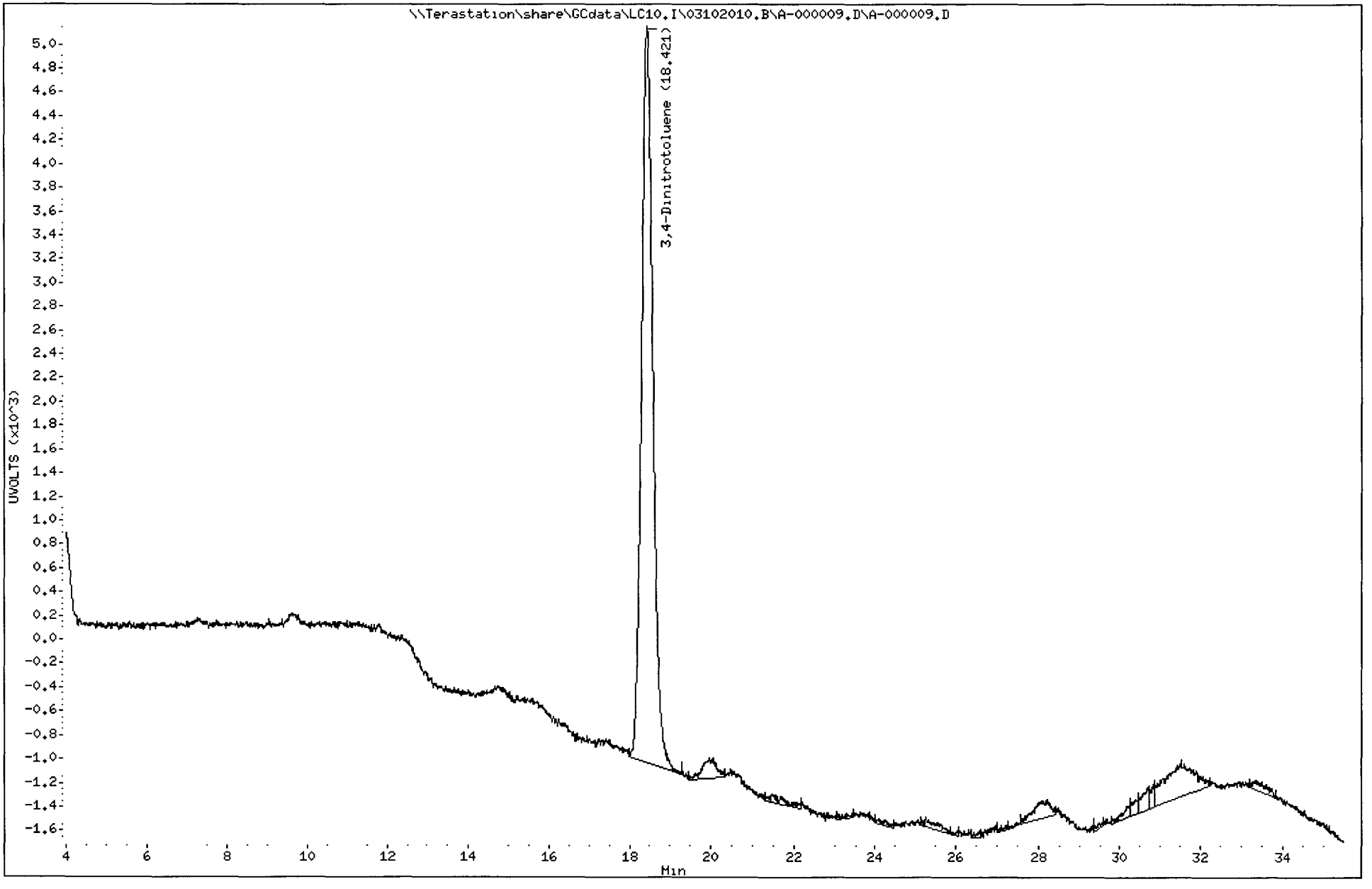
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.980	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.421	121654	6179	0.051	78.84	$ 1 3,4-Dinitrotoluene
19.954	4054	171	0.042	2.18	
21.458	1881	71	0.038	0.90	
23.281	460	44	0.096	0.56	
24.071	684	41	0.060	0.52	
25.264	2041	81	0.040	1.03	
26.564	360	59	0.164	0.75	
27.104	385	51	0.132	0.65	
27.564	279	17	0.061	0.21	
28.081	4056	147	0.036	1.87	
29.564	380	24	0.063	0.30	
30.261	1335	87	0.065	1.10	
30.448	1259	117	0.093	1.49	
30.684	2208	184	0.083	2.34	
30.841	1414	192	0.136	2.44	
31.521	14298	303	0.021	3.86	
33.358	1832	76	0.041	0.96	
	158582	7844		100.000	

Total unknown % height = 21.16

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000009.D\A-000009.D
Date : 10-MAR-2010 22:08
Client ID:
Sample Info: LV3KN1AF 0065052 A0B250463-2;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.1
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000010.D

Chromatography Summary

Injection Date: 3/10/2010 22 57 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000010 D **Vial Num:** 17

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3KP1AF 0065052 A0B250463-3**

Method File: LC10 I\03102010 B\8330AB.M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.06 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KP1AF 0065052 A0B250463-3,0

Misc. Info: ,,,10 06;80,2,SOLIDBQSM.sub; ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.43**	**-0.024**	**3204**	**528.4000<**		**18.42**	**0.026**	**6146**	**500.6000**		**0.0000**	**0.00**	
HMX	5.45	-0 011	551	32.8900<	not conf						12 0278	247.03	45
RDX	7 83	-0.168	183	16.1300<							11 9284	247.03	45
Picric ACID		PT88			ND						99 4036	988 11	
1,3,5-Trinitrobenzene											9 9404	247.03	
1,3-Dinitrobenzene	13 63	0 112	118	5.9760<	not conf						4 1750	247 03	45
TETRYL											9 9404	247 03	
Nitrobenzene											17 4950	247 03	
2,4,6-Trinitrotoluene											19 2843	247 03	
4-AM-2,6-DNT											9 9404	247 03	
2-AM-4,6-DNT											12 4254	296 43	
2,6-Dinitrotoluene	20.56	-0 144	59	8.2850<	not conf						7.2565	247 03	45
2,4-Dinitrotoluene											5.2684	247.03	
2-Nitrotoluene											12 9225	247.03	
4-Nitrotoluene											18 0915	494 05	
3-Nitrotoluene											15 4076	247 03	
Nitroglycerin											14 9105	494 05	
PETN											24 8509	494 05	
3,5-Dinitroaniline											8 7475	1284 54	

MR 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.0179**	**528.4000**	**106**	**497.0179**	**500.6000**	**101**	**(81-127)**

Notes.
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000010.D
Lab Smp Id: LV3KP1AF 0065052 A0
Inj Date : 10-MAR-2010 22:57
Operator : NS Inst ID: LC10.i
Smp Info : LV3KP1AF 0065052 A0B250463-3;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

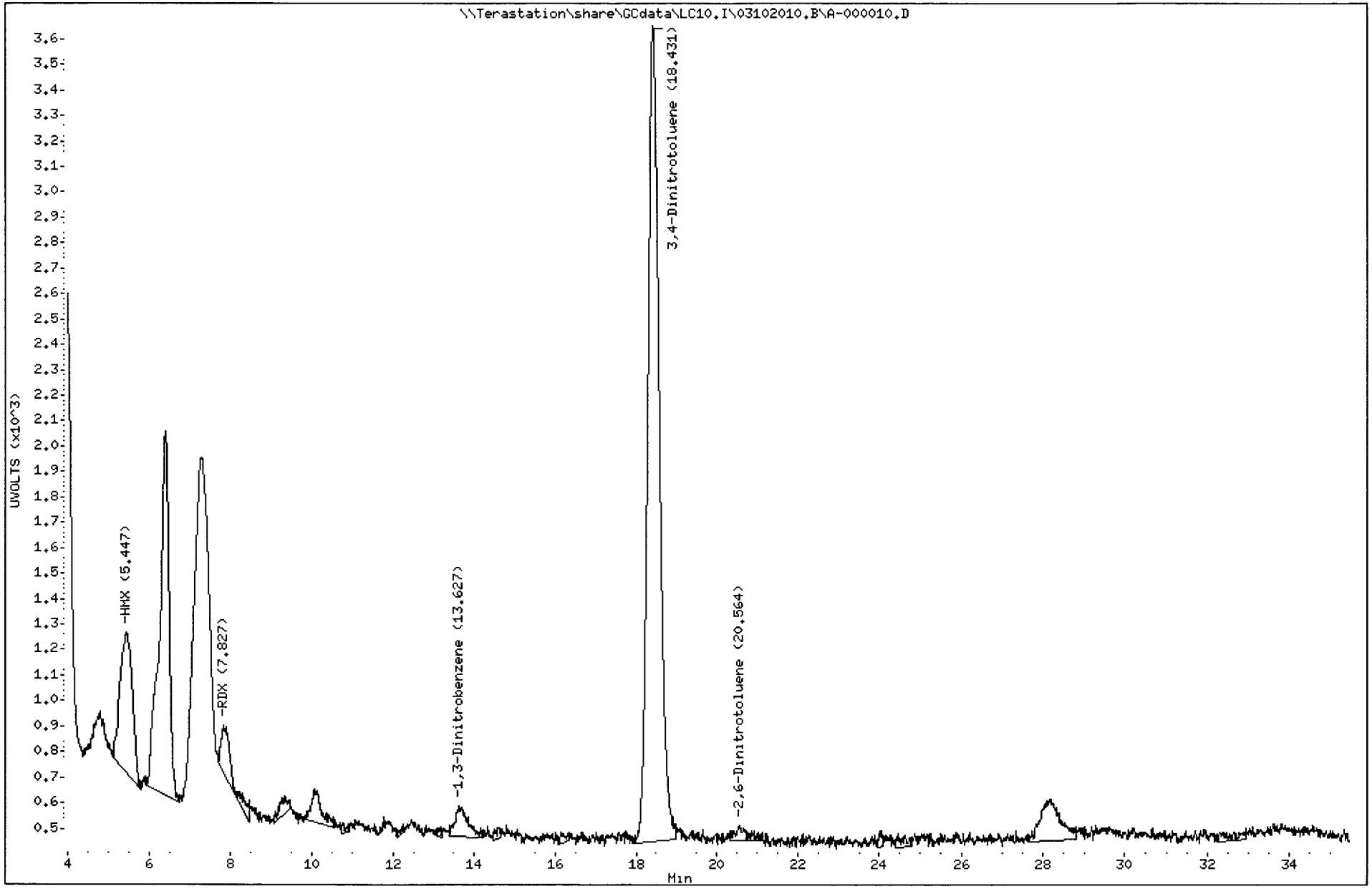
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.447	11533	551	0.048	8.76		2 HMX
6.414	23679	1433	0.061	22.79		
7.827	3415	183	0.054	2.91		3 RDX
9.324	993	63	0.063	1.00		
10.057	2201	126	0.057	2.00		
10.761	235	41	0.175	0.65		
12.207	135	30	0.222	0.47		
13.184	184	43	0.234	0.68		
13.627	2545	118	0.046	1.87		7 1,3-Dinitrobenzene
14.497	360	42	0.117	0.66		
16.137	341	45	0.132	0.71		
18.431	62681	3204	0.051	51.04	$	1 3,4-Dinitrotoluene
20.564	1197	59	0.049	0.93		15 2,6-Dinitrotoluene
24.034	333	65	0.195	1.03		
24.461	595	50	0.084	0.79		
28.171	5507	164	0.030	2.60		
32.301	558	39	0.070	0.62		
32.887	317	31	0.098	0.49		
	116808	6287		100.000		

Total unknown % height = 34.49

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000010.D
Date : 10-MAR-2010 22:57
Client ID:
Sample Info: LV3KP1AF 0065052 A0B250463-3;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000010.D\A-000010
Lab Smp Id: LV3KP1AF 0065052 A0
Inj Date : 10-MAR-2010 22:57
Operator : NS Inst ID: LC10.i
Smp Info : LV3KP1AF 0065052 A0B250463-3;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

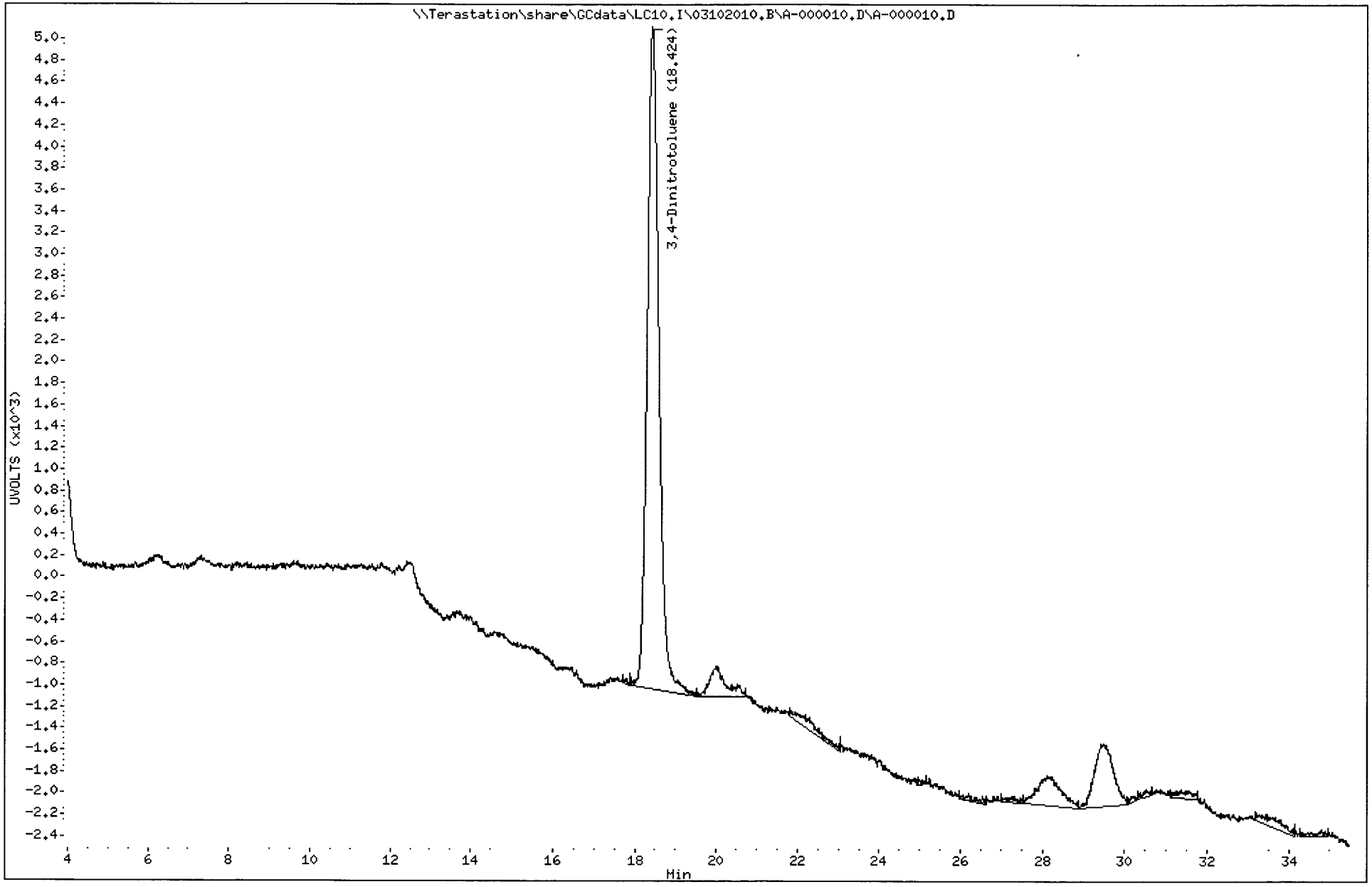
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.807	232	50	0.216	0.63	
18.424	122979	6146	0.050	78.38	$ 1 3,4-Dinitrotoluene
19.994	8081	284	0.035	3.61	
21.841	3574	57	0.016	0.72	
24.997	400	47	0.117	0.59	
26.187	1249	67	0.054	0.85	
27.127	1014	45	0.044	0.57	
28.107	11056	273	0.025	3.47	
29.424	18538	581	0.031	7.40	
30.234	484	45	0.093	0.57	
30.511	672	65	0.097	0.82	
31.351	1712	76	0.044	0.96	
33.204	3704	70	0.019	0.89	
34.480	1026	43	0.042	0.54	
	174721	7849		100.000	

Total unknown % height = 21.62

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000010.D\A-000010.D
Date : 10-MAR-2010 22:57
Client ID:
Instrument: LC10.1
Sample Info: LV3KP1AF 0065052 A0B250463-3;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



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A-000011.D

Chromatography Summary

Injection Date: 3/10/2010 23.45 **Operator:** NS

DataFile: LC10.I\03102010 B\A-000011.D **Vial Num:** 18

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3KQ1A8 0065052 A0B250463-4**

Method File: LC10 I\03102010.B\8330AB M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.05 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KQ1A8 0065052 A0B250463-4,0

Misc. Info: ,,,10.05;80,2.SOLIDBQSM sub, ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.42**	**-0.031**	**3242**	**535.2000<**		**18.42**	**0.026**	**6258**	**510.3000**		**0.0000**	**0.00**	
HMX	5 47	0.009	283	16 9100<	not used						12 0398	247 52	45
RDX											11 9403	247.52	
Picric ACID											99 5025	990 07	
1,3,5-Trinitrobenzene											9 9502	247 52	
1,3-Dinitrobenzene											4 1791	247 52	
TETRYL											9.9502	247 52	
Nitrobenzene											17.5124	247 52	
2,4,6-Trinitrotoluene											19 3035	247 52	
4-AM-2,6-DNT											9 9502	247 52	
2-AM-4,6-DNT											12 4378	297 02	
2,6-Dinitrotoluene											7 2637	247 52	
2,4-Dinitrotoluene											5 2736	247.52	
2-Nitrotoluene											12 9353	247 52	
4-Nitrotoluene											18.1095	495.04	
3-Nitrotoluene											15 4229	247 52	
Nitroglycerin											14 9254	495.04	
PETN											24.8756	495.04	
3,5-Dinitroaniline											8 7562	1287 10	

3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.5124**	**535.2000**	**108**	**497.5124**	**510.3000**	**103**	**(81-127)**

Notes. M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/11/2010 9:18 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000011.D
Lab Smp Id: LV3KQ1A8 0065052 A0
Inj Date : 10-MAR-2010 23:45
Operator : NS Inst ID: LC10.i
Smp Info : LV3KQ1A8 0065052 A0B250463-4;0
Misc Info : ;;;10.05;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

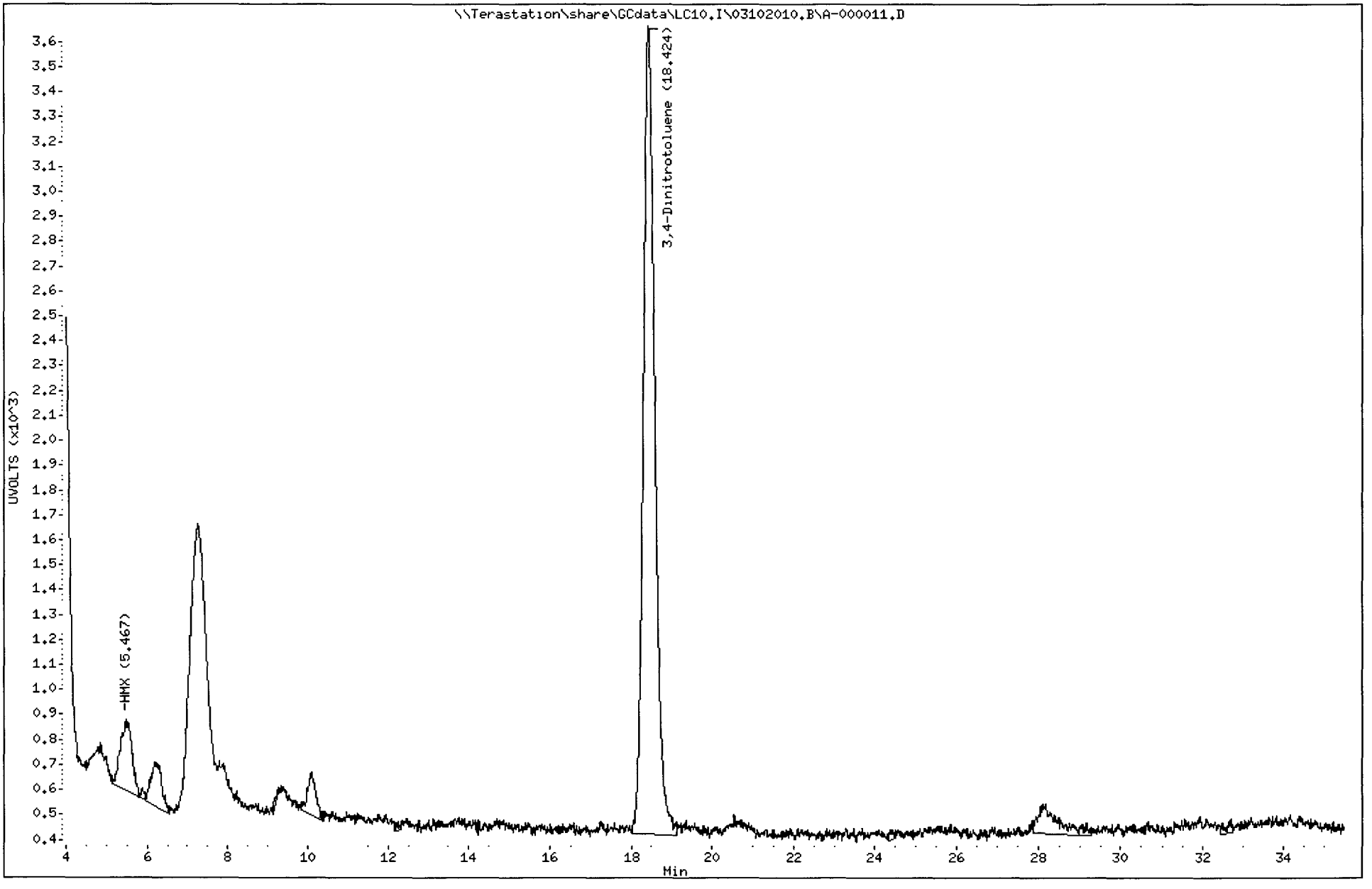
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.467	5697	283	0.050	6.73		2 HMX
6.197	3288	173	0.053	4.11		
9.184	128	33	0.257	0.78		
10.090	2515	171	0.068	4.06		
12.240	156	36	0.231	0.85		
18.424	64633	3242	0.050	77.14	$	1 3,4-Dinitrotoluene
24.387	247	40	0.162	0.95		
28.177	3738	120	0.032	2.85		
29.060	498	49	0.098	1.16		
32.690	504	58	0.115	1.37		
	81404	4205		100.000		

Total unknown % height = 16.13

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000011.D
Date : 10-MAR-2010 23:45
Client ID:
Sample Info: LV3KQ1A8 0065052 A0B250463-4;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.1
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000011.D\A-000011
Lab Smp Id: LV3KQ1A8 0065052 A0
Inj Date : 10-MAR-2010 23:45
Operator : NS Inst ID: LC10.i
Smp Info : LV3KQ1A8 0065052 A0B250463-4;0
Misc Info : ;;;10.05;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

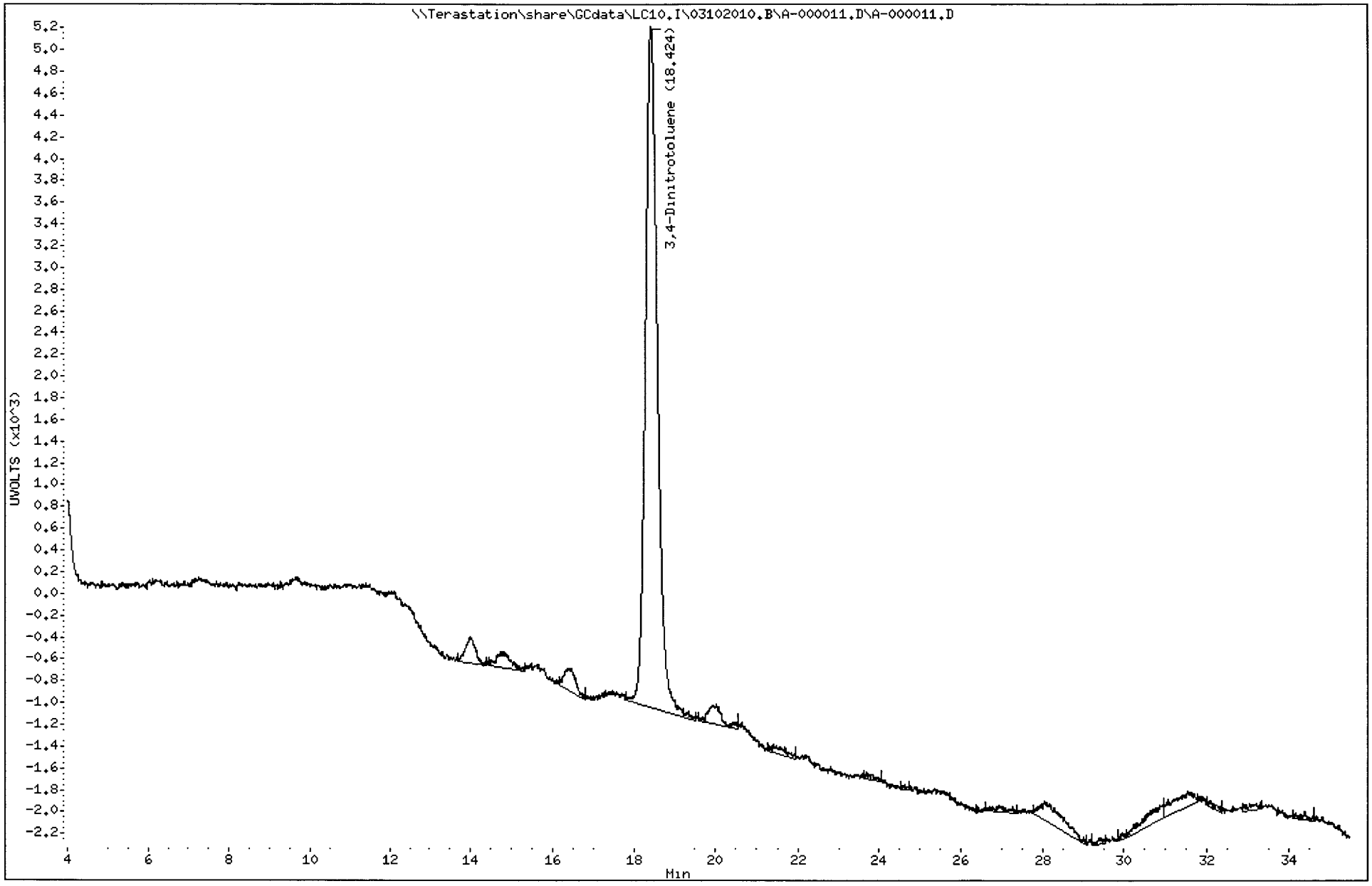
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
13.980	4090	238	0.058	2.96	
14.770	3362	145	0.043	1.80	
16.420	3968	207	0.052	2.57	
18.424	126879	6258	0.049	78.03	$ 1 3,4-Dinitrotoluene
20.027	4228	181	0.043	2.25	
21.390	1647	73	0.044	0.90	
23.694	782	64	0.082	0.79	
24.607	290	42	0.145	0.52	
26.410	339	52	0.154	0.64	
26.930	1455	65	0.045	0.80	
28.044	7492	175	0.023	2.17	
29.450	558	58	0.104	0.72	
29.950	307	56	0.182	0.69	
30.950	4697	132	0.028	1.64	
31.507	4788	111	0.023	1.38	
32.090	756	62	0.082	0.77	
33.047	965	57	0.059	0.70	
34.180	932	54	0.058	0.67	
	167533	8030		100.000	

Total unknown % height = 21.97

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000011.D\A-000011.D
Date : 10-MAR-2010 23:45
Client ID:
Sample Info: LV3KQ1A8 0065052 A0B250463-4;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.1
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000012.D

Chromatography Summary

Injection Date: 3/11/2010 0 34 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000012 D **Vial Num:** 19

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3KR1AK 0065052 A0B250463-5**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	**80 mL**	**0 mL**	**10.03 g**

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KR1AK 0065052 A0B250463-5,0

Misc. Info: ;,,10 03,80;2,SOLIDBQSM sub, ,0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.43**	**-0.029**	**3198**	**529.0000<**		**18.43**	**0.031**	**6092**	**497.7000**		**0.0000**	**0.00**	
HMX											12.0638	248 51	
RDX											11 9641	248 51	
Picric ACID											99 7009	994 03	
1,3,5-Trinitrobenzene											9 9701	248 51	
1,3-Dinitrobenzene											4 1874	248 51	
TETRYL											9 9701	248 51	
Nitrobenzene											17 5474	248 51	
2,4,6-Trinitrotoluene											19 3420	248 51	
4-AM-2,6-DNT											9 9701	248 51	
2-AM-4,6-DNT											12.4626	298 21	
2,6-Dinitrotoluene											7.2782	248 51	
2,4-Dinitrotoluene											5 2841	248 51	
2-Nitrotoluene											12 9611	248 51	
4-Nitrotoluene											18 1456	497 01	
3-Nitrotoluene											15 4536	248 51	
Nitroglycerin											14 9551	497 01	
PETN											24.9252	497.01	
3,5-Dinitroaniline											8.7737	1292.23	

mb 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**498.5045**	**529.0000**	**106**	**498.5045**	**497.7000**	**100**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000012.D
Lab Smp Id: LV3KR1AK 0065052 A0
Inj Date : 11-MAR-2010 00:34
Operator : NS Inst ID: LC10.i
Smp Info : LV3KR1AK 0065052 A0B250463-5;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

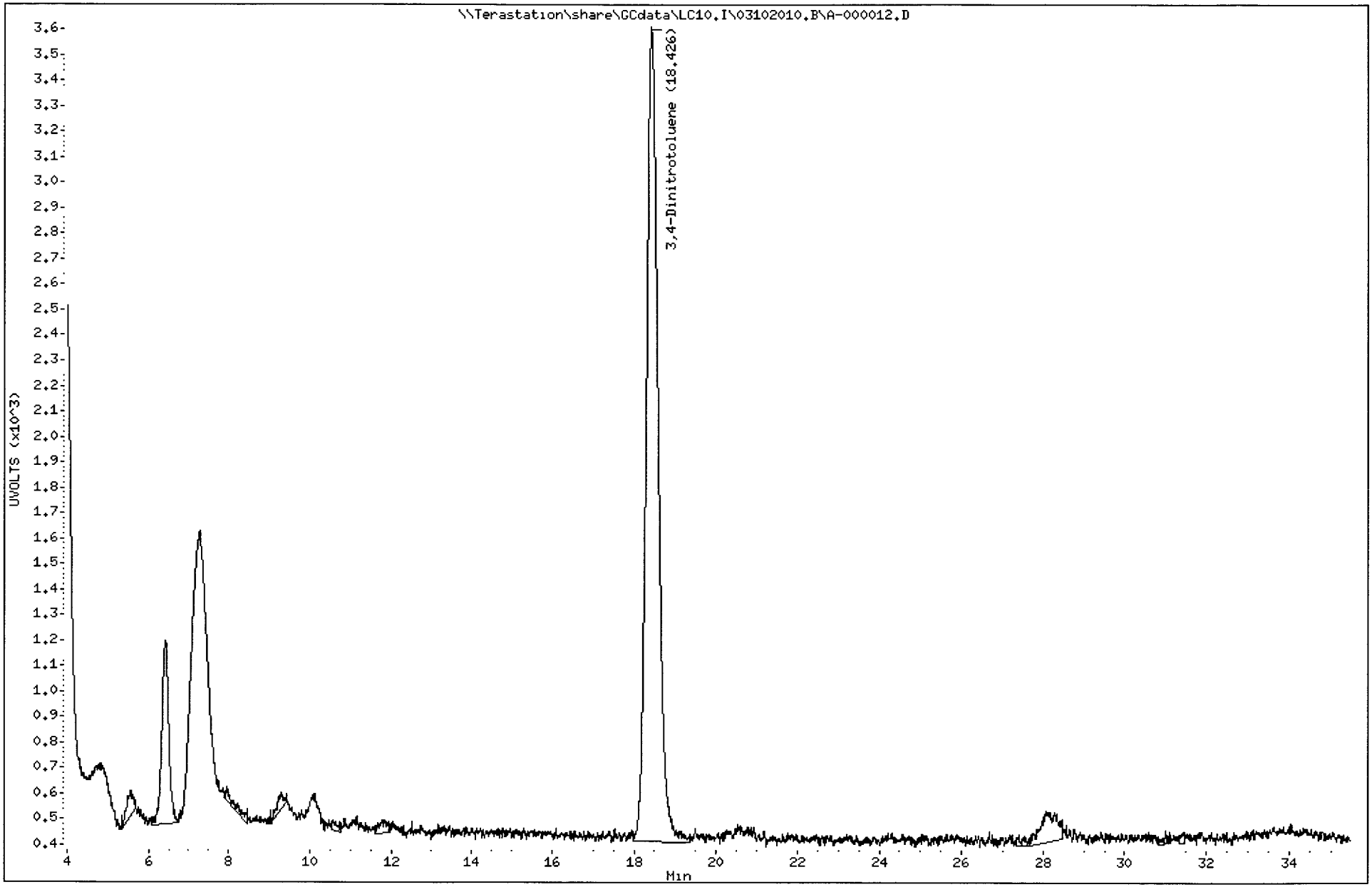
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.526	1109	88	0.079	1.97	
6.419	8576	722	0.084	16.16	
7.956	824	56	0.068	1.25	
9.253	736	64	0.087	1.43	
10.566	343	40	0.117	0.89	
11.676	689	39	0.057	0.87	
18.426	62949	3198	0.051	71.63	$ 1 3,4-Dinitrotoluene
27.399	437	44	0.101	0.98	
28.086	3432	120	0.035	2.68	
30.996	391	52	0.133	1.16	
31.439	247	44	0.178	0.98	
	79734	4467		100.000	

Total unknown % height = 28.37

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000012.D
Date : 11-MAR-2010 00:34
Client ID:
Sample Info: LV3KR1AK 0065052 A0B250463-5;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000012.D\A-000012
Lab Smp Id: LV3KR1AK 0065052 A0
Inj Date : 11-MAR-2010 00:34
Operator : NS Inst ID: LC10.i
Smp Info : LV3KR1AK 0065052 A0B250463-5;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

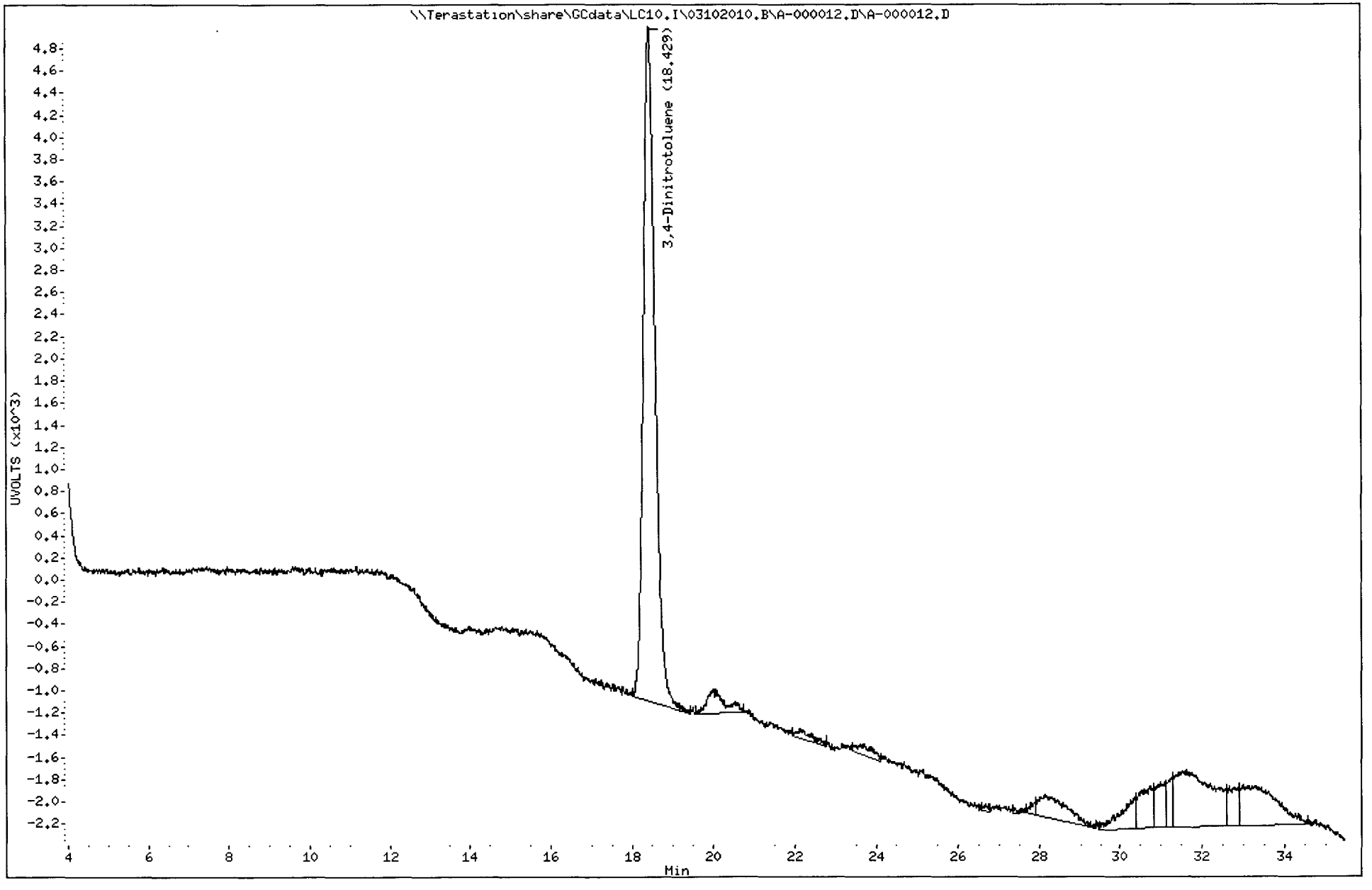
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.429	119405	6092	0.051	63.52	$ 1 3,4-Dinitrotoluene
20.019	6129	208	0.034	2.16	
22.119	1971	77	0.039	0.80	
23.686	2454	92	0.037	0.95	
26.669	527	63	0.120	0.65	
27.373	433	47	0.108	0.48	
27.866	930	108	0.116	1.12	
28.129	9632	194	0.020	2.02	
30.353	7157	275	0.038	2.86	
30.739	8247	378	0.046	3.93	
30.999	6737	407	0.060	4.23	
31.253	4395	450	0.102	4.68	
31.619	32185	514	0.016	5.35	
32.789	5922	348	0.059	3.62	
33.282	20924	349	0.017	3.63	
	227048	9602		100.000	

Total unknown % height = 36.48

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000012.D\A-000012.D
Date : 11-MAR-2010 00:34
Client ID:
Sample Info: LV3KR1AK 0065052 A0B250463-5;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



North Canton

TestAmerica West Sacramento

A-000013.D

Chromatography Summary

Injection Date: 3/11/2010 1:22 **Operator:** NS

DataFile: LC10.I\03102010 B\A-000013 D **Vial Num:** 20

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3KT1AF 0065052 A0B250463-6**

Method File: LC10 I\03102010 B\8330AB.M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.1 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KT1AF 0065052 A0B250463-6;0

Misc. Info: ;;;10 10,80;2,SOLIDBQSM sub, ;0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.41**	**-0.041**	**3137**	**515.3000<**		**18.41**	**0.009**	**5983**	**485.4000**		**0.0000**	**0.00**	
HMX											11 9802	245 07	
RDX											11 8812	245.07	
Picric ACID											99 0099	980.30	
1,3,5-Trinitrobenzene											9 9010	245 07	
1,3-Dinitrobenzene											4 1584	245 07	
TETRYL											9 9010	245 07	
Nitrobenzene											17 4257	245 07	
2,4,6-Trinitrotoluene											19.2079	245 07	
4-AM-2,6-DNT											9 9010	245 07	
2-AM-4,6-DNT											12 3762	294 09	
2,6-Dinitrotoluene											7 2277	245 07	
2,4-Dinitrotoluene											5 2475	245.07	
2-Nitrotoluene											12 8713	245 07	
4-Nitrotoluene											18 0198	490 15	
3-Nitrotoluene											15 3465	245 07	
Nitroglycerin											14 8515	490 15	
PETN											24.7525	490.15	
3,5-Dinitroaniline											8 7129	1274 38	

m 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**495.0495**	**515.3000**	**104**	**495.0495**	**485.4000**	**98**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000013.D
Lab Smp Id: LV3KT1AF 0065052 A0
Inj Date : 11-MAR-2010 01:22
Operator : NS Inst ID: LC10.i
Smp Info : LV3KT1AF 0065052 A0B250463-6;0
Misc Info : ;;;10.10;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

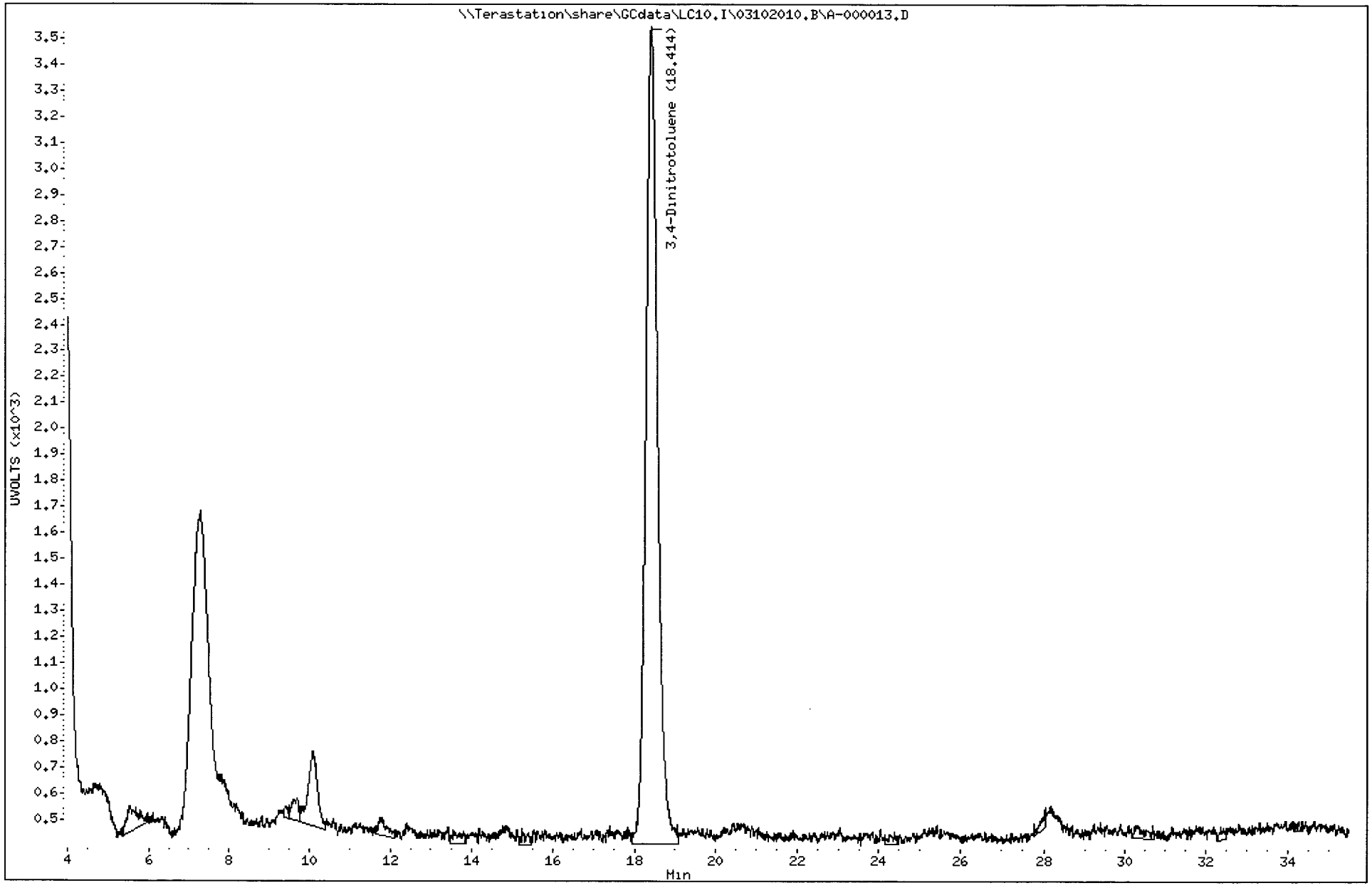
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.100	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.527	1717	100	0.058	2.47	
9.414	228	44	0.193	1.08	
9.628	998	79	0.079	1.95	
10.084	4674	288	0.062	7.11	
11.798	964	69	0.072	1.70	
13.538	714	51	0.071	1.25	
15.384	471	45	0.096	1.11	
18.414	62648	3137	0.050	77.55	$ 1 3,4-Dinitrotoluene
24.268	432	36	0.083	0.88	
28.021	513	66	0.129	1.63	
30.301	884	48	0.054	1.18	
32.368	342	47	0.137	1.16	
34.274	266	38	0.143	0.93	
	74850	4048		100.000	

Total unknown % height = 22.45

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000013.D
Date : 11-MAR-2010 01:22
Client ID:
Sample Info: LV3KT1AF 0065052 A0B250463-6;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000013.D\A-000013
Lab Smp Id: LV3KT1AF 0065052 A0
Inj Date : 11-MAR-2010 01:22
Operator : NS Inst ID: LC10.i
Smp Info : LV3KT1AF 0065052 A0B250463-6;0
Misc Info : ;;;10.10;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 10-Mar-2010 18:01 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

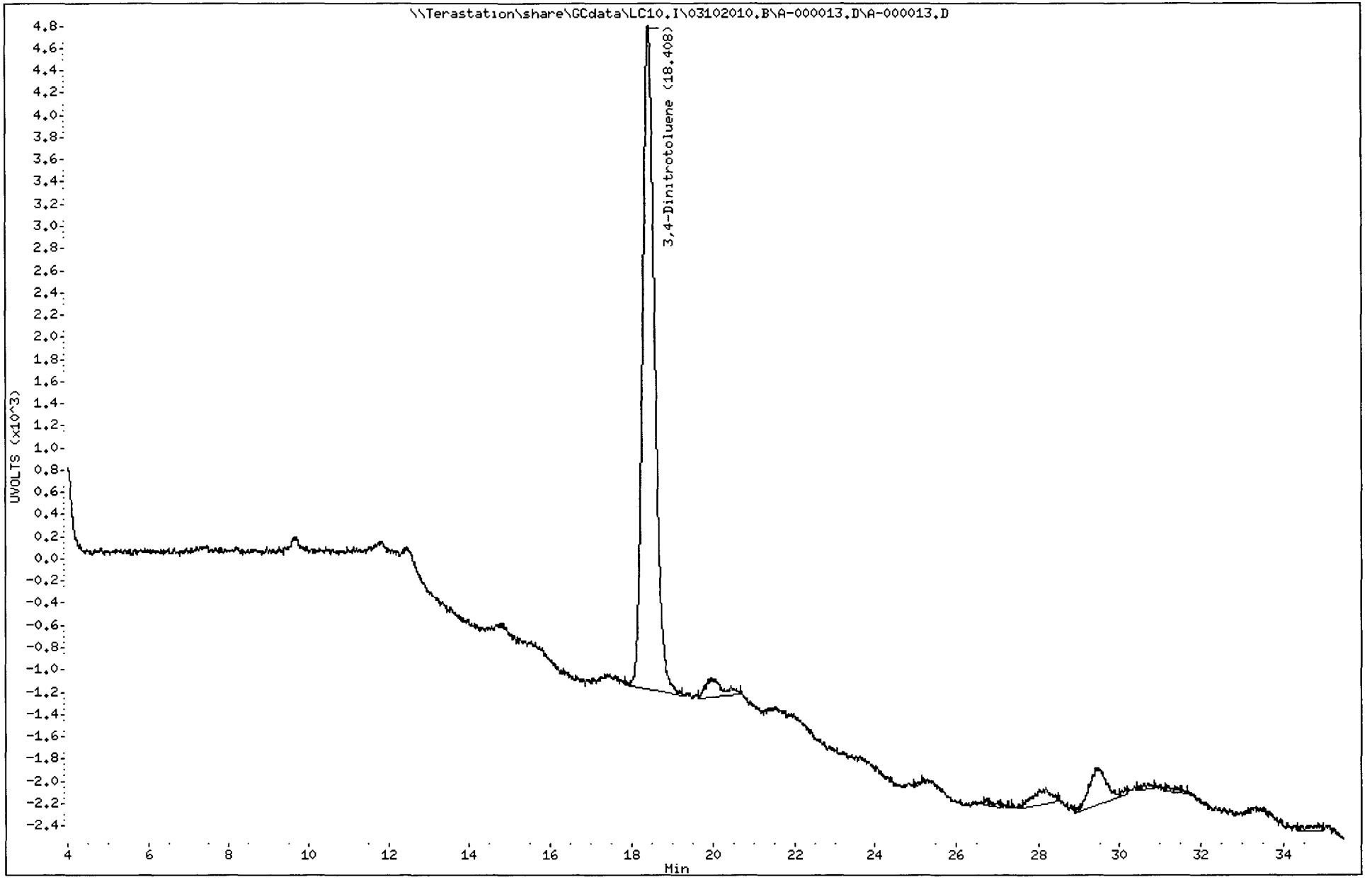
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.100	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.408	118262	5983	0.051	85.62	$ 1 3,4-Dinitrotoluene
19.931	4884	175	0.036	2.50	
25.154	212	24	0.113	0.34	
26.808	776	70	0.090	1.00	
27.541	244	32	0.131	0.45	
28.014	4182	139	0.033	1.98	
29.398	9717	337	0.035	4.81	
30.131	386	61	0.158	0.87	
30.581	862	64	0.074	0.91	
31.164	977	58	0.059	0.82	
34.631	1368	49	0.036	0.70	
	141871	6992		100.000	

Total unknown % height = 14.38

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000013.D\A-000013.D
Date : 11-MAR-2010 01:22
Client ID:
Instrument: LC10.i
Sample Info: LV3KT1AF 0065052 A0B250463-6;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



TestAmerica West Sacramento

A-000014.D

Chromatography Summary

Injection Date: 3/11/2010 2 11 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000014 D **Vial Num:** 3

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL;2

Misc. Info: ,5, ; , ,3:CAL sub, ;0,1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18 40	4754	98 5800<	100	-1%	Acceptable		18 40	9877	101 2000	100	1%	Acceptable		(±15)	
HMX	5 45	13219	99 2300<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
RDX	7 97	9263	102 7000<	100	3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Picric ACID	9 21	18728	213 6000	200	7%	Acceptable		9 21	27654	214 9000<	200	7%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10 51	16227	100 9000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
1,3-Dinitrobenzene	13 48	15766	100 4000<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
TETRYL	14 88	8203	93 4200<	100	-7%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitrobenzene	15 30	7248	97 9000<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4,6-Trinitrotoluene	17 12	9055	94 7700<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-AM-2,6-DNT	17 85	6955	97 5700<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-AM-4,6-DNT	18 96	7890	97 2100<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,6-Dinitrotoluene	20 66	5443	96 1100<	100	-4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2,4-Dinitrotoluene	21 42	8881	96.6600<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
2-Nitrotoluene	24 93	3993	98 0400<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
4-Nitrotoluene	26 88	4804	98 6200<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
3-Nitrotoluene	28.96	4727	98 4600<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
Nitroglycerin				**100**	**-100%**	**Fails**		16 15	6332	101 0000<	100	1%	Acceptable		(±15)	45
PETN				**100**	**-100%**	**Fails**		32.28	3025	95.6900<	100	-4%	Acceptable		(±15)	45
3,5-Dinitroaniline	14 34	10268	99 7100<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	45
EGDN				**100**	**-100%**	**Fails**					**100**	**-100%**	**Fails**		(±15)	

M 3/11/10

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000014.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 02:11
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

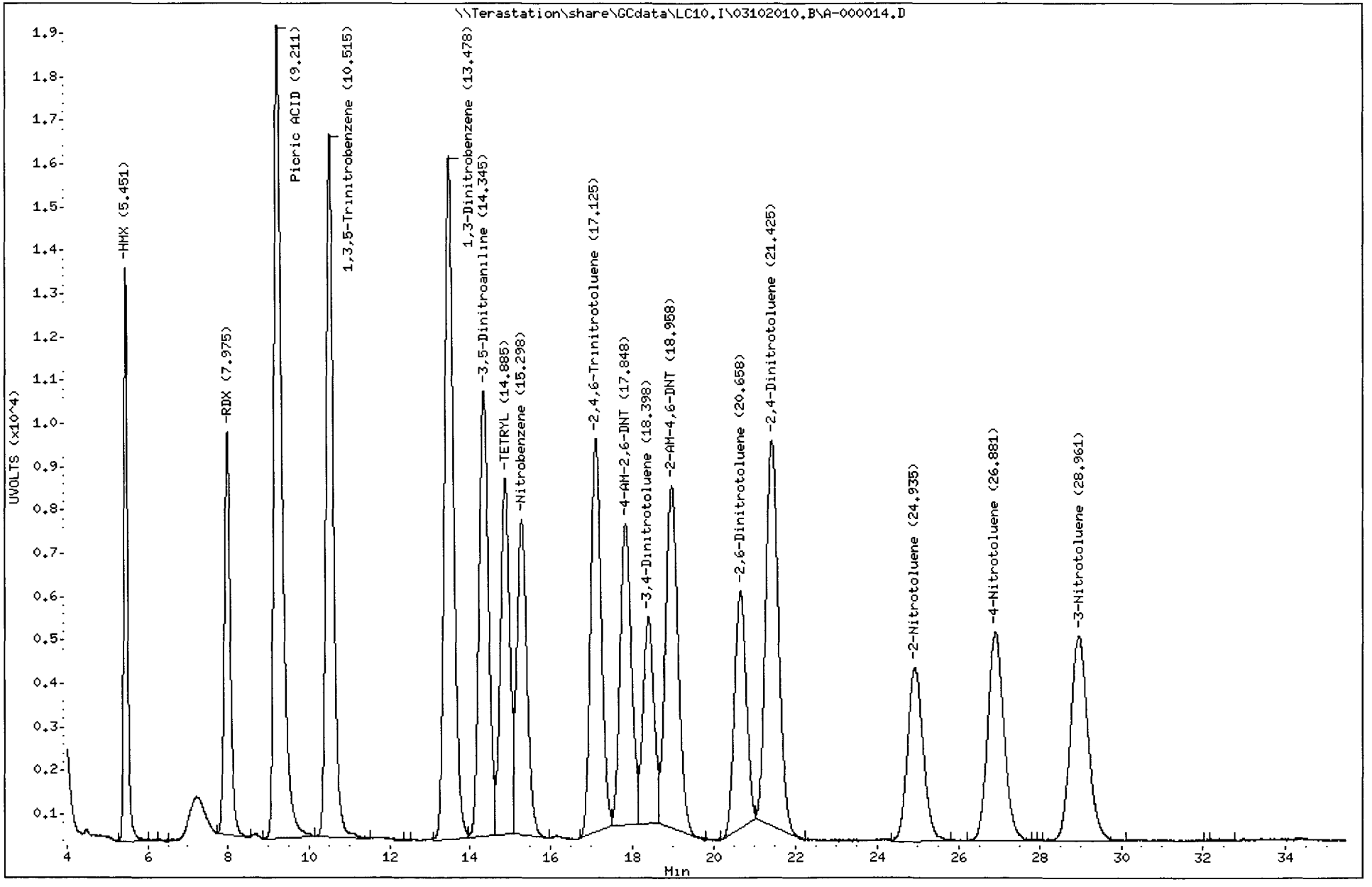
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.451	84151	13219	0.157	8.49		2	HMX
6.308	321	32	0.100	0.02			
7.975	94977	9263	0.098	5.95		3	RDX
9.211	249447	18728	0.075	12.15		5	Picric ACID
10.515	205669	16227	0.079	10.42		6	1,3,5-Trinitrobenze
12.431	180	31	0.172	0.01			
13.478	246132	15766	0.064	10.12		7	1,3-Dinitrobenzene
14.345	168045	10268	0.061	6.59		8	3,5-Dinitroaniline
14.885	132689	8203	0.062	5.27		9	TETRYL
15.298	127267	7248	0.057	4.65		10	Nitrobenzene
17.125	161375	9055	0.056	5.81		12	2,4,6-Trinitrotolue
17.848	131540	6955	0.053	4.46		13	4-AM-2,6-DNT
18.398	87511	4754	0.054	3.05	$	1	3,4-Dinitrotoluene
18.958	163601	7890	0.048	5.06		14	2-AM-4,6-DNT
20.658	110300	5443	0.049	3.49		15	2,6-Dinitrotoluene
21.425	193468	8881	0.046	5.70		16	2,4-Dinitrotoluene
24.935	104762	3993	0.038	2.56		17	2-Nitrotoluene
26.881	135328	4804	0.035	3.08		18	4-Nitrotoluene
28.038	231	51	0.221	0.03			
28.961	144212	4727	0.033	3.03		19	3-Nitrotoluene
32.101	199	54	0.272	0.03			
32.388	928	52	0.056	0.03			
	2542333	155644		100.000			

Total unknown % height = 0.1200

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000014.D
Date : 11-MAR-2010 02:11
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000014.D\A-000014
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 02:11
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

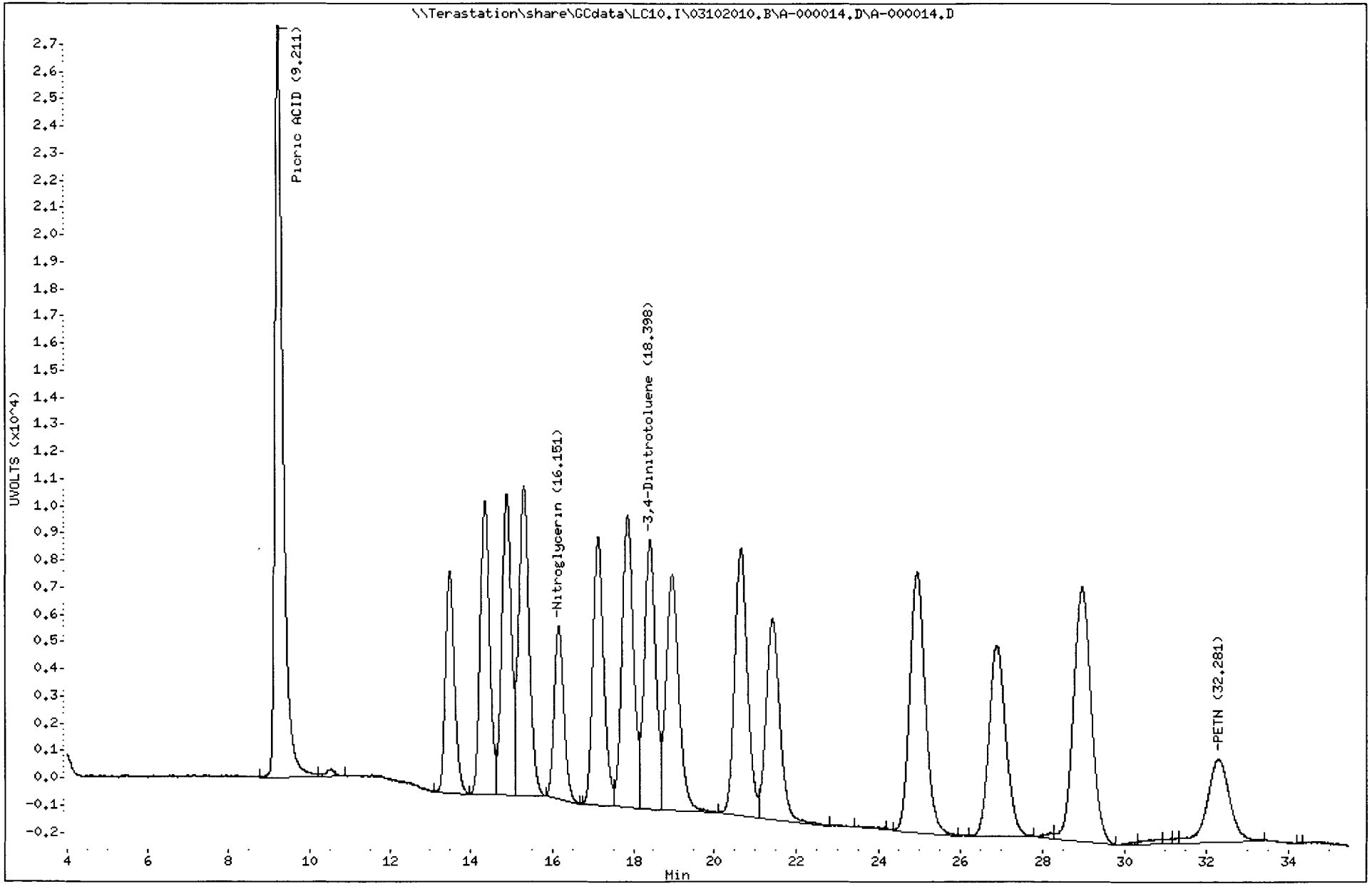
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
9.211	370908	27654	0.075	17.19		5	Picric ACID
10.538	4405	264	0.060	0.16			
13.478	126193	8162	0.065	5.04			
14.345	175968	10775	0.061	6.66			
14.885	177568	11053	0.062	6.83			
15.298	201427	11363	0.056	7.02			
16.151	106732	6332	0.059	3.91		11	Nitroglycerin
17.125	181194	9870	0.054	6.10			
17.845	211497	10714	0.051	6.62			
18.398	192999	9877	0.051	6.10	$	1	3,4-Dinitrotoluene
18.951	190738	8652	0.045	5.34			
20.655	214538	9811	0.046	6.06			
21.421	170683	7365	0.043	4.55			
23.508	1874	60	0.032	0.03			
24.931	250545	9554	0.038	5.90			
26.888	197075	6997	0.036	4.32			
28.261	3242	224	0.069	0.13			
28.961	279937	9339	0.033	5.77			
30.275	1798	100	0.056	0.06			
30.758	5236	184	0.035	0.11			
31.125	2260	178	0.079	0.11			
31.285	1716	207	0.121	0.12			
32.281	113561	3025	0.027	1.86		20	PETN
34.341	204	26	0.127	0.01			
	3182301	161786		100.000			

Total unknown % height = 70.94

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000014.D\A-000014.D
Date : 11-MAR-2010 02:11
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

A-000015.D

Chromatography Summary

Injection Date: 3/11/2010 2.59 **Operator:** NS

DataFile: LC10 I\03102010.B\A-000015 D **Vial Num:** 21

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3KW1AF 0065052 A0B250463-7**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	**80 mL**	**0 mL**	**10.06 g**

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KW1AF 0065052 A0B250463-7,0

Misc. Info: ,,,10 06,80;2,SOLIDBQSM sub, ,0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.40**	**0.002**	**3156**	**520.4000<**		**18.40**	**0.005**	**6023**	**490.6000**		**0.0000**	**0.00**	
HMX											12 0278	247 03	
RDX											11 9284	247 03	
Picric ACID											99 4036	988 11	
1,3,5-Trinitrobenzene											9 9404	247 03	
1,3-Dinitrobenzene											4 1750	247.03	
TETRYL											9 9404	247 03	
Nitrobenzene											17 4950	247 03	
2,4,6-Trinitrotoluene											19 2843	247.03	
4-AM-2,6-DNT											9 9404	247 03	
2-AM-4,6-DNT											12.4254	296 43	
2,6-Dinitrotoluene											7.2565	247 03	
2,4-Dinitrotoluene											5 2684	247 03	
2-Nitrotoluene											12 9225	247 03	
4-Nitrotoluene											18.0915	494 05	
3-Nitrotoluene											15.4076	247.03	
Nitroglycerin											14 9105	494 05	
PETN											24 8509	494 05	
3,5-Dinitroaniline											8 7475	1284 54	

m 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.0179**	**520.4000**	**105**	**497.0179**	**490.6000**	**99**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 9:19 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000015.D
Lab Smp Id: LV3KW1AF 0065052 A0
Inj Date : 11-MAR-2010 02:59
Operator : NS Inst ID: LC10.i
Smp Info : LV3KW1AF 0065052 A0B250463-7;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

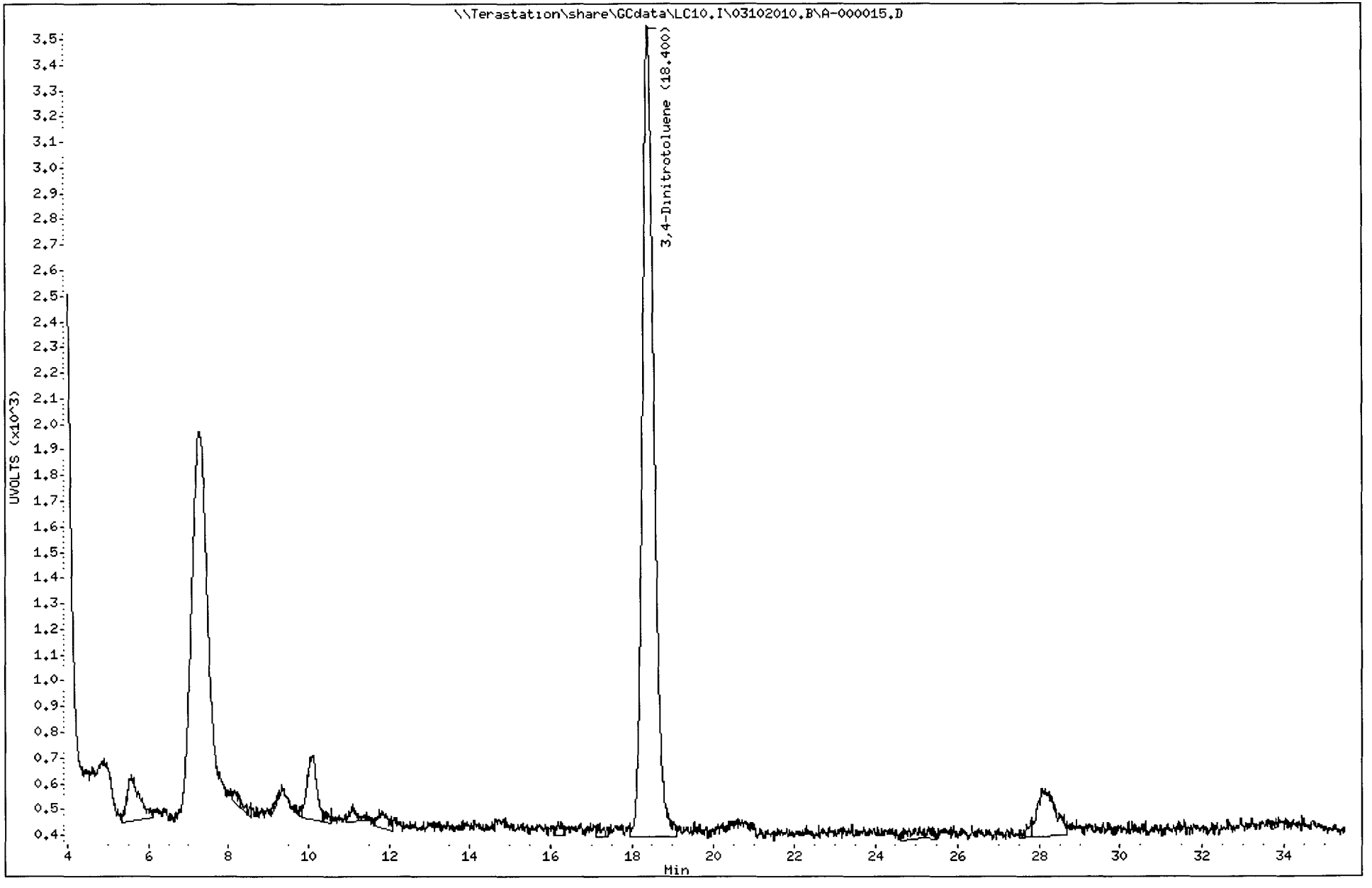
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.577	3810	183	0.048	4.24	
8.153	781	46	0.059	1.06	
9.147	131	23	0.176	0.53	
9.783	115	39	0.339	0.90	
10.087	4433	248	0.056	5.75	
11.103	703	67	0.095	1.55	
11.750	1075	67	0.062	1.55	
16.170	477	57	0.120	1.32	
17.200	467	49	0.105	1.13	
18.400	62432	3156	0.051	73.29	$ 1 3,4-Dinitrotoluene
24.693	874	46	0.053	1.06	
25.287	377	45	0.119	1.04	
27.773	498	63	0.126	1.46	
28.060	5564	183	0.033	4.24	
33.803	164	38	0.232	0.88	
	81900	4310		100.000	

Total unknown % height = 26.71

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000015.D
Date : 11-MAR-2010 02:59
Client ID:
Sample Info: LV3KW1AF 0065052 A0B250463-7;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000015.D\A-000015
Lab Smp Id: LV3KW1AF 0065052 A0
Inj Date : 11-MAR-2010 02:59
Operator : NS Inst ID: LC10.i
Smp Info : LV3KW1AF 0065052 A0B250463-7;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

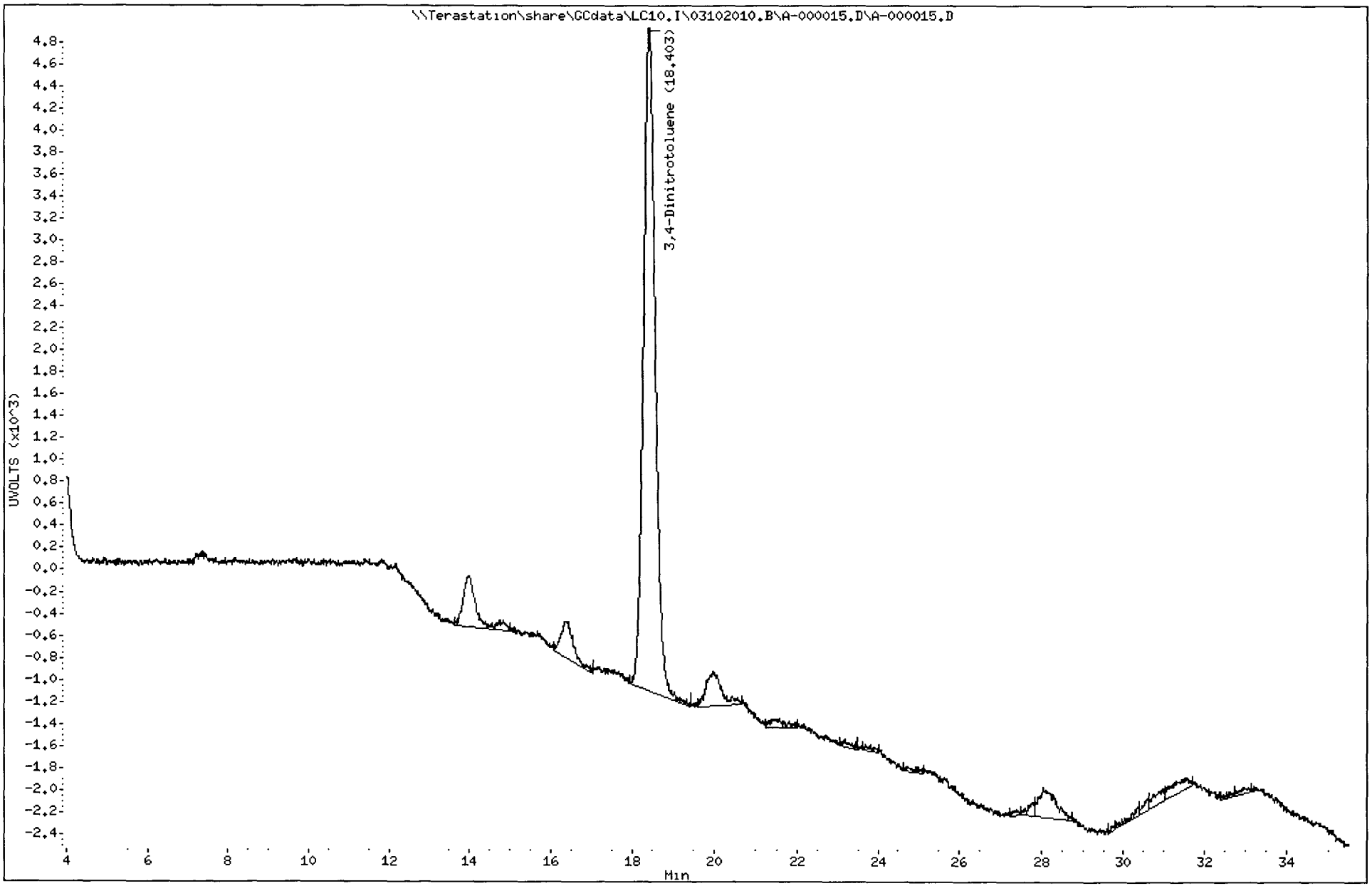
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
13.983	11231	464	0.041	5.53	
16.387	7006	330	0.047	3.93	
18.403	118082	6023	0.051	71.97	$ 1 3,4-Dinitrotoluene
19.963	8165	315	0.039	3.75	
21.393	2108	78	0.037	0.93	
23.177	754	65	0.086	0.77	
23.680	722	50	0.069	0.59	
24.717	819	45	0.055	0.53	
27.390	484	53	0.109	0.63	
27.767	1340	123	0.092	1.46	
28.040	7888	270	0.034	3.22	
29.767	278	31	0.112	0.36	
30.357	1162	83	0.071	0.99	
30.577	1047	107	0.102	1.27	
30.947	2145	113	0.053	1.34	
31.290	3492	120	0.034	1.43	
32.617	499	52	0.104	0.62	
32.943	827	57	0.069	0.68	
	168049	8379		100.000	

Total unknown % height = 28.03

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000015.D\A-000015.D
Date : 11-MAR-2010 02:59
Client ID:
Sample Info: LW3KW1AF 0065052 A0B250463-7:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.1
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000016.D

Chromatography Summary

Injection Date: 3/11/2010 3 48 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000016.D **Vial Num:** 22

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3KX1AF 0065052 A0B250463-8**

Method File: LC10 I\03102010 B\8330AB.M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	**80 mL**	**0 mL**	**10.02 g**

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KX1AF 0065052 A0B250463-8,0

Misc. Info: ,,,10 02:80,2;SOLIDBQSM.sub, ;0.1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.41**	**0.012**	**3202**	**530.1000<**		**18.42**	**0.022**	**6165**	**504.2000**		**0.0000**	**0.00**	
HMX											12 0758	249 00	
RDX											11 9760	249 00	
Picric ACID											99 8004	996 01	
1,3,5-Trinitrobenzene											9 9800	249 00	
1,3-Dinitrobenzene											4 1916	249 00	
TETRYL											9 9800	249 00	
Nitrobenzene											17.5649	249.00	
2,4,6-Trinitrotoluene											19.3613	249.00	
4-AM-2.6-DNT											9 9800	249 00	
2-AM-4,6-DNT											12 4751	298.80	
2,6-Dinitrotoluene											7 2854	249 00	
2,4-Dinitrotoluene											5.2894	249 00	
2-Nitrotoluene											12 9741	249 00	
4-Nitrotoluene											18 1637	498 01	
3-Nitrotoluene											15 4691	249 00	
Nitroglycerin											14 9701	498 01	
PETN											24 9501	498 01	
3,5-Dinitroaniline											8 7824	1294 82	

m 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**499.0020**	**530.1000**	**106**	**499.0020**	**504.2000**	**101**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 9:20 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000016.D
Lab Smp Id: LV3KX1AF 0065052 A0
Inj Date : 11-MAR-2010 03:48
Operator : NS Inst ID: LC10.i
Smp Info : LV3KX1AF 0065052 A0B250463-8;0
Misc Info : ;;;10.02;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

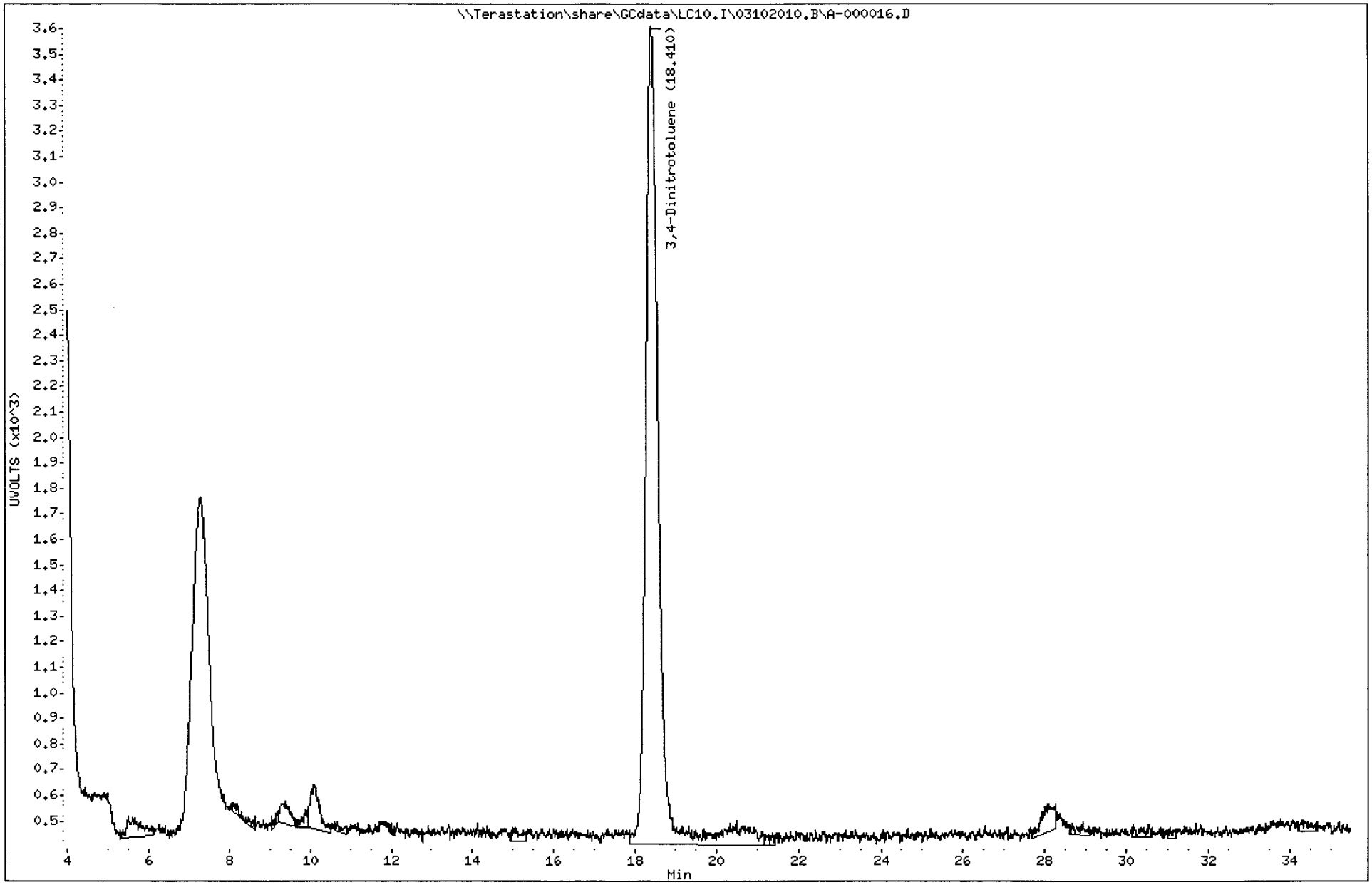
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.020	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.503	1837	83	0.045	2.02	
8.107	651	40	0.061	0.97	
9.147	233	46	0.197	1.12	
9.310	1406	75	0.053	1.82	
9.877	537	72	0.134	1.75	
10.107	2776	172	0.062	4.19	
10.667	300	39	0.130	0.95	
15.010	761	55	0.072	1.34	
18.410	70149	3202	0.046	78.14	$ 1 3,4-Dinitrotoluene
21.264	474	44	0.093	1.07	
28.077	2102	98	0.047	2.38	
28.670	699	45	0.064	1.09	
30.354	719	39	0.054	0.95	
31.057	306	45	0.147	1.09	
34.327	616	46	0.075	1.12	
	83567	4101		100.000	

Total unknown % height = 21.86

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000016.D
Date : 11-MAR-2010 03:48
Client ID:
Sample Info: LV3KX1AF 0065052 A0B250463-8;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000016.D\A-000016
Lab Smp Id: LV3KX1AF 0065052 A0
Inj Date : 11-MAR-2010 03:48
Operator : NS Inst ID: LC10.i
Smp Info : LV3KX1AF 0065052 A0B250463-8;0
Misc Info : ;;;10.02;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

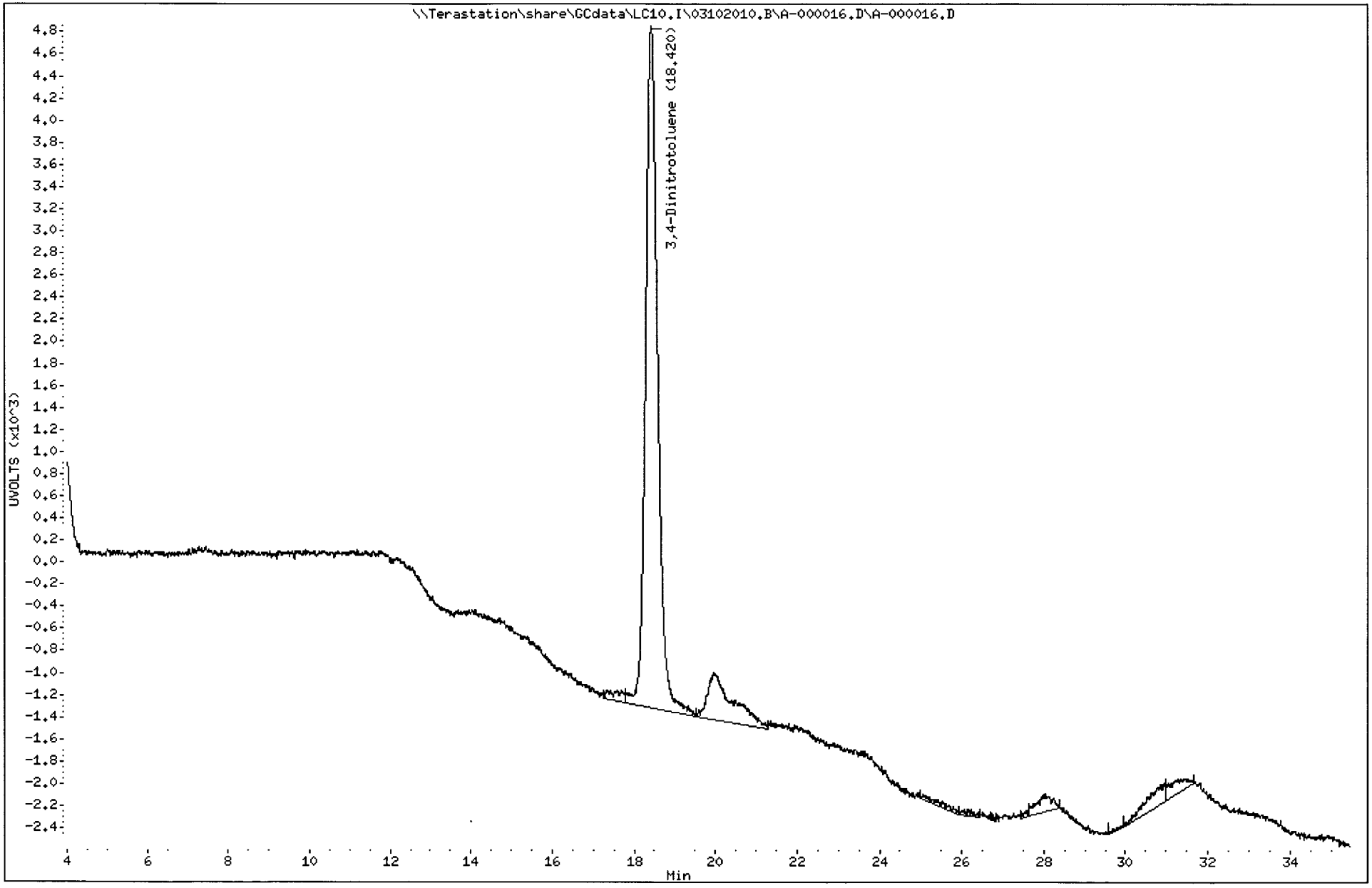
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.020	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.564	2161	89	0.041	1.20	
18.420	125418	6165	0.049	83.63	$ 1 3,4-Dinitrotoluene
19.960	18293	425	0.023	5.76	
25.054	1998	53	0.027	0.71	
26.070	938	60	0.064	0.81	
26.734	193	56	0.290	0.75	
27.614	346	47	0.136	0.63	
28.020	3991	159	0.040	2.15	
29.884	328	17	0.052	0.23	
30.947	6059	169	0.028	2.29	
31.220	3725	136	0.037	1.84	
	163452	7376		100.000	

Total unknown % height = 16.37

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000016.D\A-000016.D
Date : 11-MAR-2010 03:48
Client ID:
Sample Info: LV3KX1AF 0065052 A0B250463-8:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000017.D

Chromatography Summary

Injection Date: 3/11/2010 4.36 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000017 D **Vial Num:** 23

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3K11AP 0065052 A0B250463-9**

Method File: LC10.I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	**80 mL**	**0 mL**	**10.01 g**

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3K11AP 0065052 A0B250463-9,0

Misc. Info: ;;,10 01,80;2;SOLIDBQSM sub, ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.40**	**0.003**	**3123**	**517.6000<**		**18.40**	**0.007**	**5991**	**490.5000**		**0.0000**	**0.00**	
HMX											12 0879	249 50	
RDX											11 9880	249 50	
Picric ACID											99 9001	998.00	
1,3,5-Trinitrobenzene											9.9900	249 50	
1,3-Dinitrobenzene											4.1958	249.50	
TETRYL											9 9900	249 50	
Nitrobenzene											17 5824	249 50	
2,4,6-Trinitrotoluene											19 3806	249 50	
4-AM-2,6-DNT											9 9900	249 50	
2-AM-4,6-DNT											12 4875	299 40	
2,6-Dinitrotoluene											7 2927	249 50	
2,4-Dinitrotoluene											5 2947	249 50	
2-Nitrotoluene											12 9870	249 50	
4-Nitrotoluene											18 1818	499 00	
3-Nitrotoluene											15 4845	249 50	
Nitroglycerin											14 9850	499 00	
PETN											24 9750	499 00	
3,5-Dinitroaniline											8 7912	1297 40	

m 3/11/10

✓

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**499.5005**	**517.6000**	**104**	**499.5005**	**490.5000**	**98**	**(81-127)**

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/11/2010 9:20 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000017.D
Lab Smp Id: LV3K11AP 0065052 A0
Inj Date : 11-MAR-2010 04:36
Operator : NS Inst ID: LC10.i
Smp Info : LV3K11AP 0065052 A0B250463-9;0
Misc Info : ;;;10.01;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

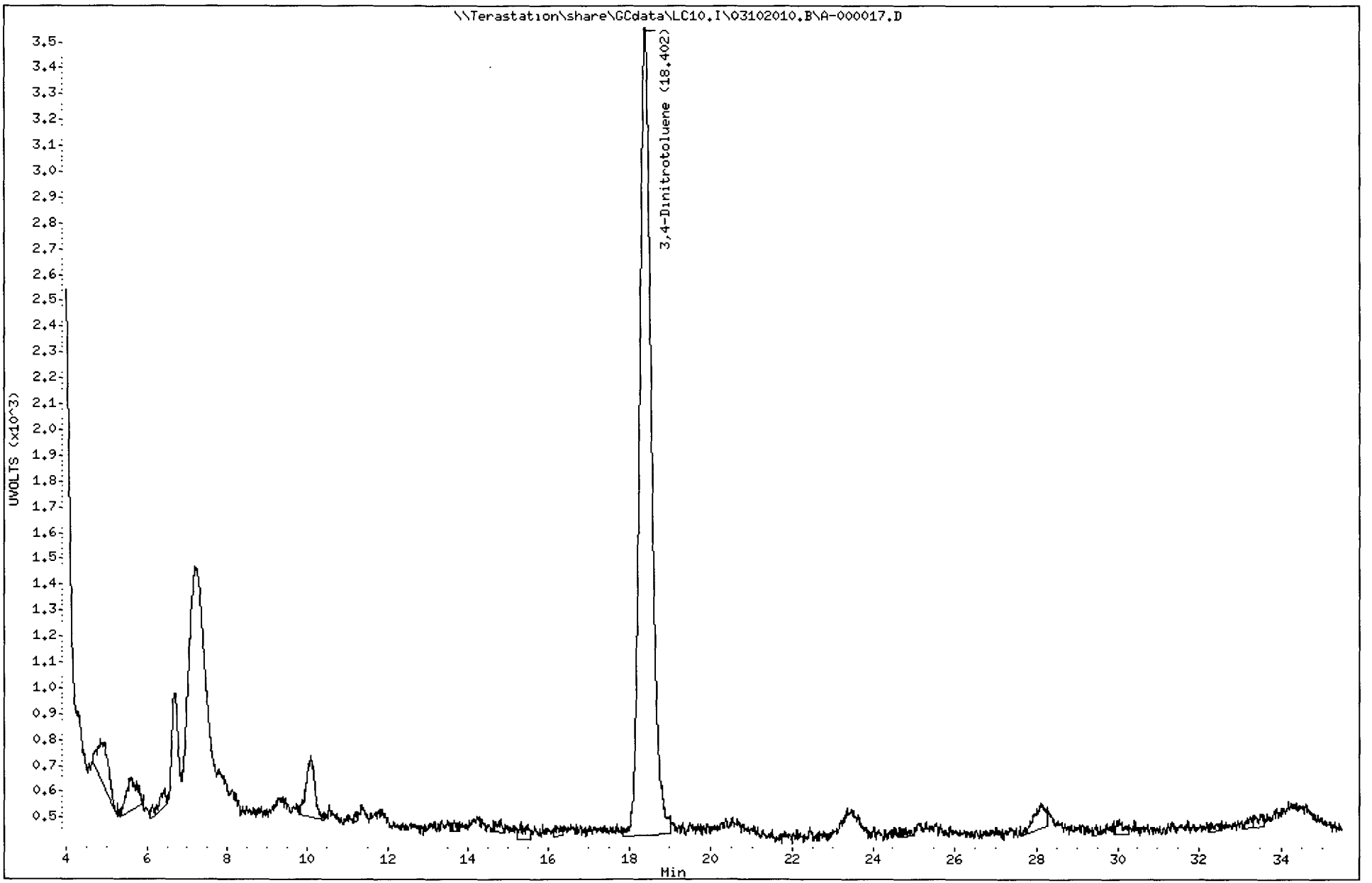
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
4.838	3330	155	0.047	3.61	
5.558	2244	129	0.057	3.00	
6.152	200	45	0.225	1.04	
6.355	675	59	0.087	1.37	
10.098	3531	239	0.068	5.57	
11.225	131	38	0.291	0.88	
13.645	279	41	0.147	0.95	
14.632	507	46	0.091	1.07	
15.322	722	67	0.093	1.56	
16.168	335	42	0.125	0.97	
18.402	62554	3123	0.050	72.88	$ 1 3,4-Dinitrotoluene
24.815	250	35	0.140	0.81	
28.015	1862	84	0.045	1.95	
29.485	186	40	0.215	0.93	
30.045	664	60	0.090	1.39	
32.302	333	38	0.114	0.88	
33.348	941	49	0.052	1.14	
	78741	4290		100.000	

Total unknown % height = 27.12

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000017.D
Date : 11-MAR-2010 04:36
Client ID:
Sample Info: LV3K11AP 0065052 A0B250463-9;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000017.D\A-000017
Lab Smp Id: LV3K11AP 0065052 A0
Inj Date : 11-MAR-2010 04:36
Operator : NS Inst ID: LC10.i
Smp Info : LV3K11AP 0065052 A0B250463-9;0
Misc Info : ;;;10.01;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

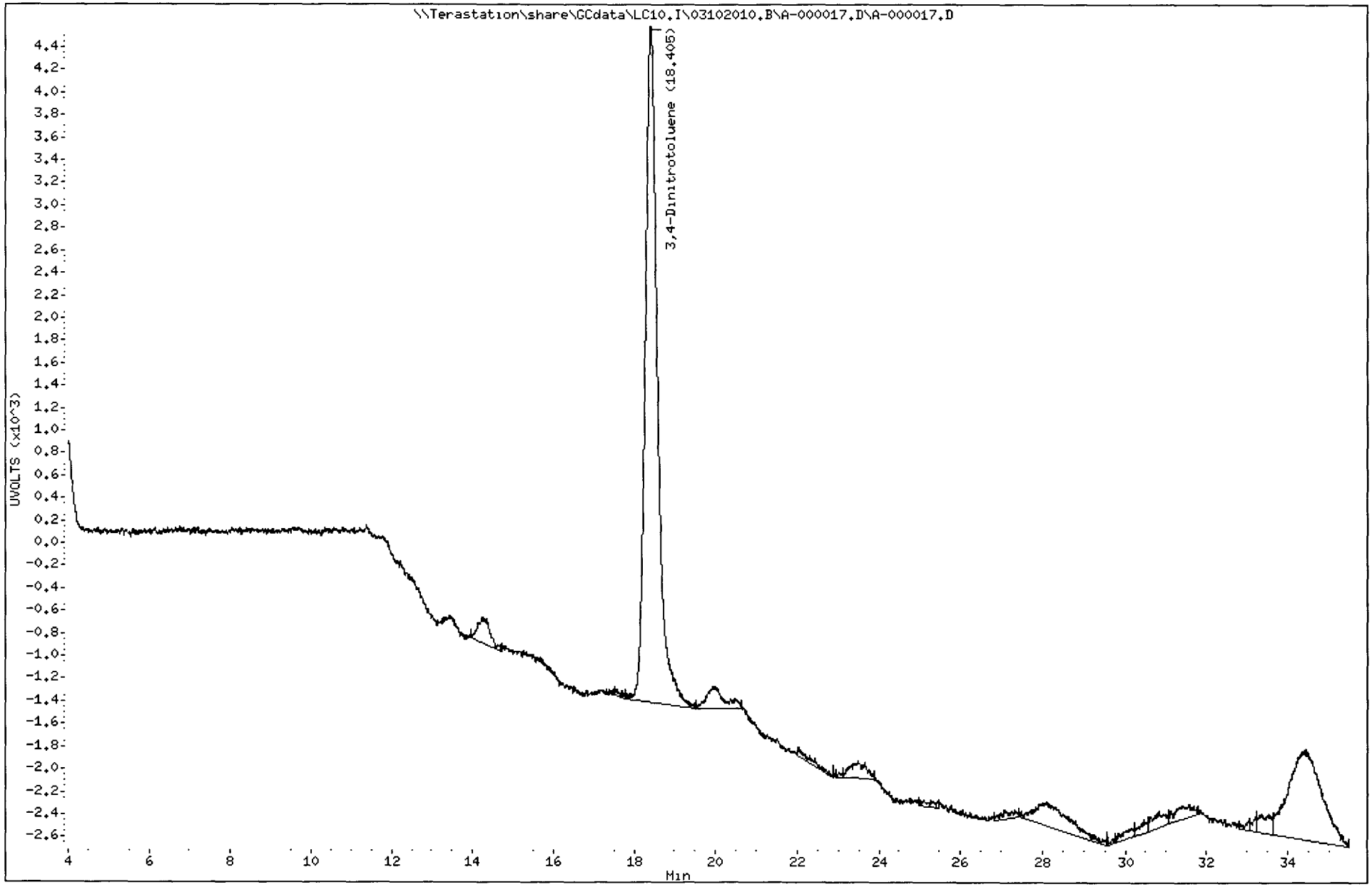
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
14.228	4917	224	0.046	2.54	
17.568	523	63	0.121	0.71	
18.405	126395	5991	0.047	68.13	$ 1 3,4-Dinitrotoluene
19.928	5612	198	0.035	2.24	
22.025	1750	74	0.042	0.84	
23.015	331	56	0.169	0.63	
23.482	4034	150	0.037	1.70	
25.125	1197	62	0.052	0.70	
27.082	1547	80	0.052	0.90	
28.108	12788	221	0.017	2.50	
29.735	300	39	0.130	0.44	
30.145	1629	89	0.055	1.01	
30.445	1462	115	0.079	1.30	
30.812	3086	147	0.048	1.66	
31.415	3609	121	0.034	1.37	
33.041	636	81	0.127	0.91	
33.205	962	131	0.136	1.48	
33.541	3373	169	0.050	1.91	
34.435	43813	796	0.018	9.03	
	217962	8807		100.000	

Total unknown % height = 31.87

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000017.D\A-000017.D
Date : 11-MAR-2010 04:36
Client ID:
Sample Info: LV3K11AP 0065052 A0B250463-9:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.1
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000018.D

Chromatography Summary

Injection Date: 3/11/2010 5 25 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000018 D **Vial Num:** 24

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3K11AQ 0065052 A0B250463-9S**

Method File: LC10 I\03102010 B\8330AB.M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.06 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:** SOLIDBQSM sp

Samp. Info: LV3K11AQ 0065052 A0B250463-9S.3

Misc. Info: MS,,.10.06;80;2;SOLIDBQSM.sub,SOLIDBQSM spk.1;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18 39	2852	470 3000<	497 017893	95%	Acceptable		18 41	5782	471 0000	497 017893	95%	Acceptable		(81-127)	
HMX	5 45	6568	392 1000<	497 017893	79%	Acceptable					497.017893	0%	Fails		(75-125)	45
RDX	7 98	4329	381 5000<	497 017893	77%	Acceptable					497 017893	0%	Fails		(70-135)	45
Picric ACID				4970 178926	0%	Fails					4970 178926	0%	Fails		(70-130)	
1,3,5-Trinitrobenzene	10 52	9089	449 3000<	497 017893	90%	Acceptable					497 017893	0%	Fails		(75-125)	45
1,3-Dinitrobenzene	13.49	9196	465 7000<	497 017893	94%	Acceptable					497 017893	0%	Fails		(80-125)	45
TETRYL	14.88	3738	338 5000<	497 017893	68%	Acceptable					497 017893	0%	Fails		(10-150)	45
Nitrobenzene	15 31	4298	461 7000<	497 017893	93%	Acceptable					497.017893	0%	Fails		(75-125)	45
2,4,6-Trinitrotoluene	17 12	4873	405 6000<	497 017893	82%	Acceptable					497 017893	0%	Fails		(55-140)	45
4-AM-2,6-DNT	**17.85**	**3377**	**376.7000<**	497 017893	**76%**	**Fails**					497.017893	0%	Fails		(80-125)	45
2-AM-4,6-DNT	18.95	4245	415 9000<	497 017893	84%	Acceptable					497 017893	0%	Fails		(80-125)	45
2,6-Dinitrotoluene	20 66	3135	440 2000<	497 017893	89%	Acceptable					497 017893	0%	Fails		(80-120)	45
2,4-Dinitrotoluene	21 43	5121	443 2000<	497 017893	89%	Acceptable					497 017893	0%	Fails		(80-125)	45
2-Nitrotoluene	24 95	2354	459 6000<	497 017893	92%	Acceptable					497 017893	0%	Fails		(80-125)	45
4-Nitrotoluene	26 88	2818	460.0000<	497 017893	93%	Acceptable					497 017893	0%	Fails		(75-125)	45
3-Nitrotoluene	28 96	2774	459 5000<	497 017893	92%	Acceptable					497 017893	0%	Fails		(75-120)	45
Nitroglycerin				994 035785	0%	Fails		16 15	7540	956 3000<	994 035785	96%	Acceptable		(74-112)	45
PETN				994 035785	0%	Fails		32 27	3440	865 3000<	994 035785	87%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14 35	5415	418 2000<	497 017893	84%	Acceptable					497 017893	0%	Fails		(40-140)	45

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.0179**	**470.3000**	**95**	**497.0179**	**471.0000**	**95**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000018.D
Lab Smp Id: LV3K11AQ 0065052 A0
Inj Date : 11-MAR-2010 05:25
Operator : NS Inst ID: LC10.i
Smp Info : LV3K11AQ 0065052 A0B250463-9S;3
Misc Info : MS;;;10.06;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 24 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

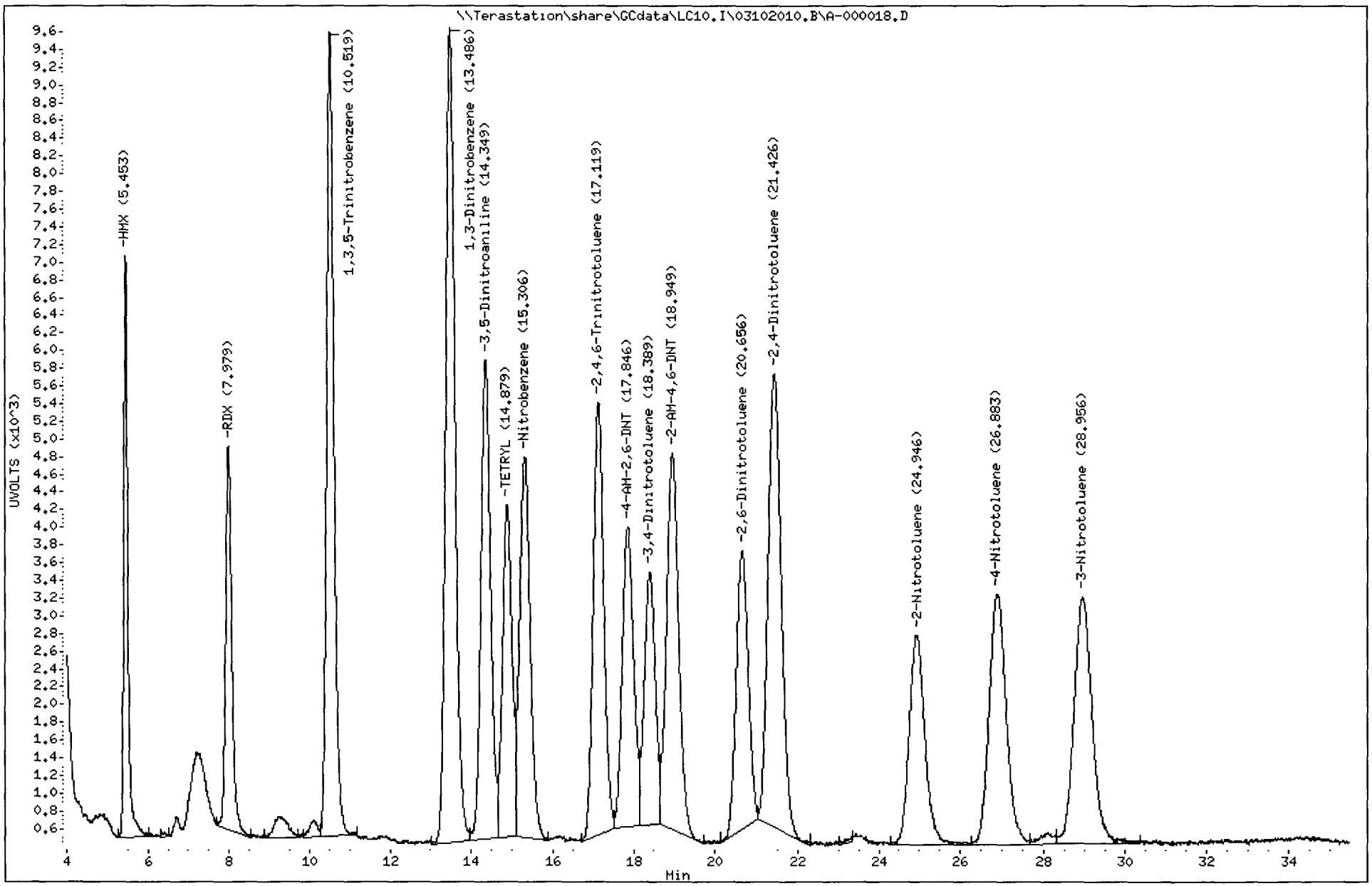
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.453	44045	6568	0.149	8.77		2 HMX
6.346	358	56	0.157	0.07		
7.979	45953	4329	0.094	5.78		3 RDX
9.233	5719	239	0.042	0.31		
10.113	2688	192	0.071	0.25		
10.519	113714	9089	0.080	12.14		6 1,3,5-Trinitrobenze
13.486	144366	9196	0.064	12.38		7 1,3-Dinitrobenzene
14.349	89716	5415	0.060	7.23		8 3,5-Dinitroaniline
14.879	60781	3738	0.061	4.99		9 TETRYL
15.306	75306	4298	0.057	5.74		10 Nitrobenzene
17.119	87200	4873	0.056	6.51		12 2,4,6-Trinitrotolue
17.846	66082	3377	0.051	4.51		13 4-AM-2,6-DNT
18.389	53186	2852	0.054	3.81	$	1 3,4-Dinitrotoluene
18.949	88451	4245	0.048	5.67		14 2-AM-4,6-DNT
20.656	63833	3135	0.049	4.18		15 2,6-Dinitrotoluene
21.426	112327	5121	0.046	6.84		16 2,4-Dinitrotoluene
23.263	679	47	0.069	0.06		
24.946	63598	2354	0.037	3.14		17 2-Nitrotoluene
26.883	79985	2818	0.035	3.76		18 4-Nitrotoluene
28.103	2814	127	0.045	0.16		
28.956	86675	2774	0.032	3.70		19 3-Nitrotoluene
	1287477	74843		100.000		

Total unknown % height = 0.8500

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000018.D
Date : 11-MAR-2010 05:25
Client ID:
Sample Info: LV3K11AQ 0065052 A0B250463-9S;3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000018.D\A-000018
Lab Smp Id: LV3K11AQ 0065052 A0
Inj Date : 11-MAR-2010 05:25
Operator : NS Inst ID: LC10.i
Smp Info : LV3K11AQ 0065052 A0B250463-9S;3
Misc Info : MS;;;10.06;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 24 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

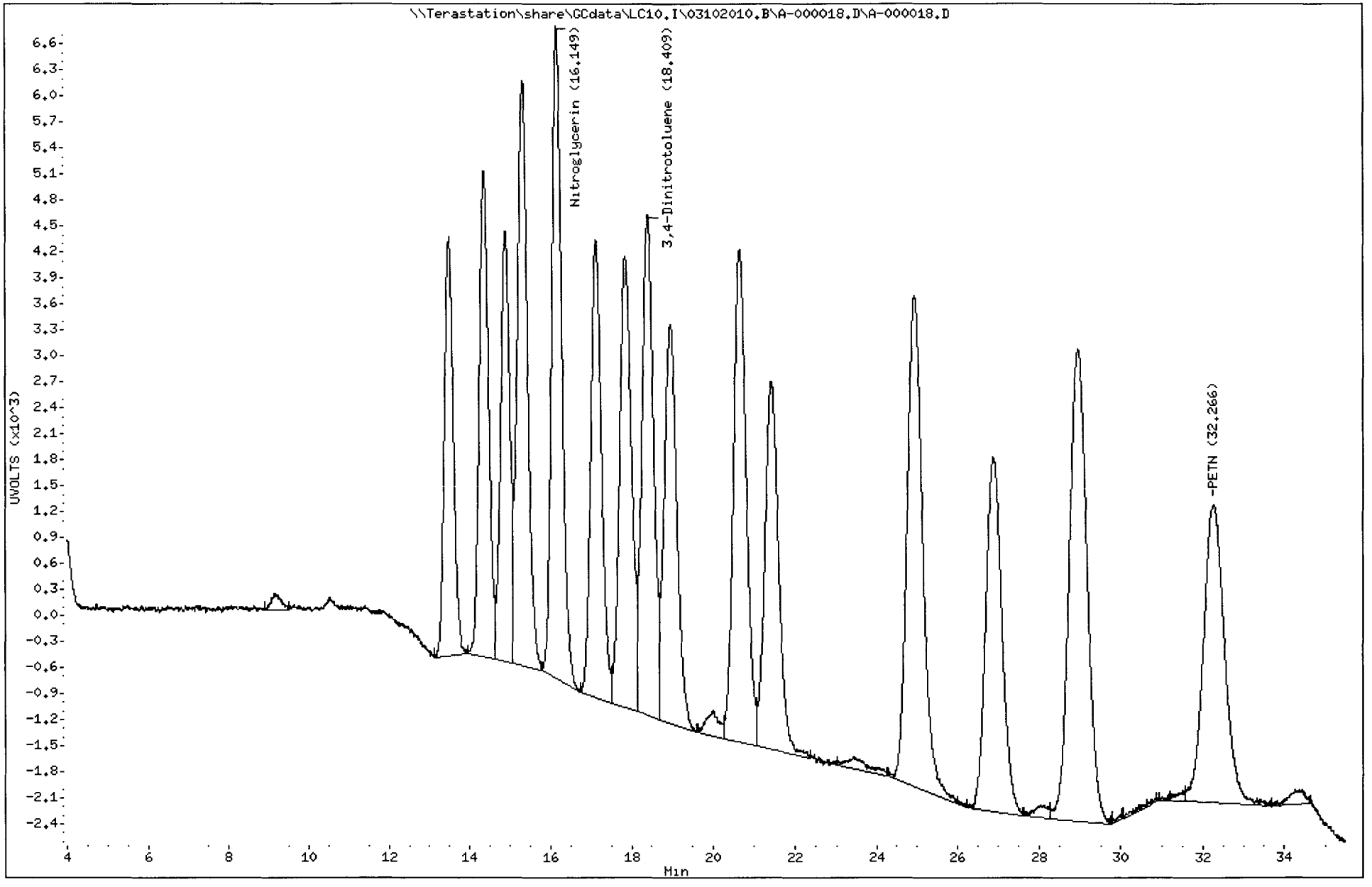
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.176	3224	189	0.059	0.23	
13.486	74454	4843	0.065	6.01	
14.346	91635	5623	0.061	6.98	
14.879	78971	4983	0.063	6.19	
15.309	120841	6756	0.056	8.39	
16.149	129721	7540	0.058	9.49	11 Nitroglycerin
17.119	96981	5286	0.055	6.56	
17.846	106493	5217	0.049	6.48	
18.409	113231	5782	0.051	7.18	$ 1 3,4-Dinitrotoluene
18.949	98909	4604	0.047	5.71	
20.006	6248	294	0.047	0.36	
20.656	125322	5689	0.045	7.06	
21.423	98836	4247	0.043	5.27	
23.429	5382	146	0.027	0.18	
24.916	152491	5653	0.037	7.02	
26.876	114209	4095	0.036	5.08	
28.106	3474	154	0.044	0.19	
28.949	163253	5445	0.033	6.76	
29.979	395	52	0.132	0.06	
30.586	963	38	0.039	0.04	
30.826	508	47	0.092	0.05	
31.149	445	78	0.175	0.09	
31.503	1752	125	0.071	0.15	
32.266	124790	3440	0.028	4.27	20 PETN

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
34.273	4707	168	0.036	0.20	
	1717237	80494		100.000	

Total unknown % height = 79.06

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000018.D\A-000018.D
Date : 11-MAR-2010 05:25
Client ID:
Instrument: LC10.i
Sample Info: LV3K11AQ 0065052 A0B250463-9S;3
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



2205

North Canton

TestAmerica West Sacramento

A-000019.D

Chromatography Summary

Injection Date: 3/11/2010 6:13 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000019 D **Vial Num:** 25

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LV3K11AR 0065052 A0B250463-9D**

Method File: LC10 I\03102010 B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23.38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.01 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:** SOLIDBQSM sp

Samp. Info: LV3K11AR 0065052 A0B250463-9D,3

Misc. Info: MSD.,,10 01,80;2,SOLIDBQSM sub,SOLIDBQSM spk,1,1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18 41	2974	492 9000<	499 5005	99%	Acceptable		18 41	6132	502 0000	499.5005	101%	Acceptable		(81-127)	
HMX	5.45	6836	410 1000<	499 5005	82%	Acceptable					499.5005	0%	Fails		(75-125)	45
RDX	7 98	4426	392.0000<	499 5005	78%	Acceptable					499.5005	0%	Fails		(70-135)	45
Picric ACID				4995 004995	0%	Fails					4995 004995	0%	Fails		(70-130)	
1,3,5-Trinitrobenzene	10.52	9356	464.8000<	499 5005	93%	Acceptable					499.5005	0%	Fails		(75-125)	45
1,3-Dinitrobenzene	13.49	9444	480 7000<	499.5005	96%	Acceptable					499.5005	0%	Fails		(80-125)	45
TETRYL	14 89	3834	349.0000<	499 5005	70%	Acceptable					499.5005	0%	Fails		(10-150)	45
Nitrobenzene	15 31	4365	471.2000<	499 5005	94%	Acceptable					499.5005	0%	Fails		(75-125)	45
2,4,6-Trinitrotoluene	17 14	5049	422.3000<	499 5005	85%	Acceptable					499.5005	0%	Fails		(55-140)	45
4-AM-2,6-DNT	**17.86**	**3471**	**389.1000<**	**499.5005**	**78%**	**Fails**					499.5005	0%	Fails		(80-125)	45
2-AM-4,6-DNT	18 97	4382	431.5000<	499 5005	86%	Acceptable					499.5005	0%	Fails		(80-125)	45
2,6-Dinitrotoluene	20 67	3261	460 2000<	499 5005	92%	Acceptable					499.5005	0%	Fails		(80-120)	45
2,4-Dinitrotoluene	21 44	5270	458 4000<	499 5005	92%	Acceptable					499.5005	0%	Fails		(80-125)	45
2-Nitrotoluene	24 94	2436	478 0000<	499 5005	96%	Acceptable					499.5005	0%	Fails		(80-125)	45
4-Nitrotoluene	26 90	2930	480 7000<	499 5005	96%	Acceptable					499.5005	0%	Fails		(75-125)	45
3-Nitrotoluene	28 97	2838	472 4000<	499 5005	95%	Acceptable					499.5005	0%	Fails		(75-120)	45
Nitroglycerin				999 000999	0%	Fails		16 16	7792	993 2000<	999 000999	99%	Acceptable		(74-112)	45
PETN				999 000999	0%	Fails		32 31	3615	913 9000<	999 000999	91%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14.35	5789	449.3000<	499.5005	90%	Acceptable					499.5005	0%	Fails		(40-140)	45

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**499.5005**	**492.9000**	**99**	**499.5005**	**502.0000**	**101**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 9:20 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000019.D
Lab Smp Id: LV3K11AR 0065052 A0
Inj Date : 11-MAR-2010 06:13
Operator : NS Inst ID: LC10.i
Smp Info : LV3K11AR 0065052 A0B250463-9D;3
Misc Info : MSD;;;10.01;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 25 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

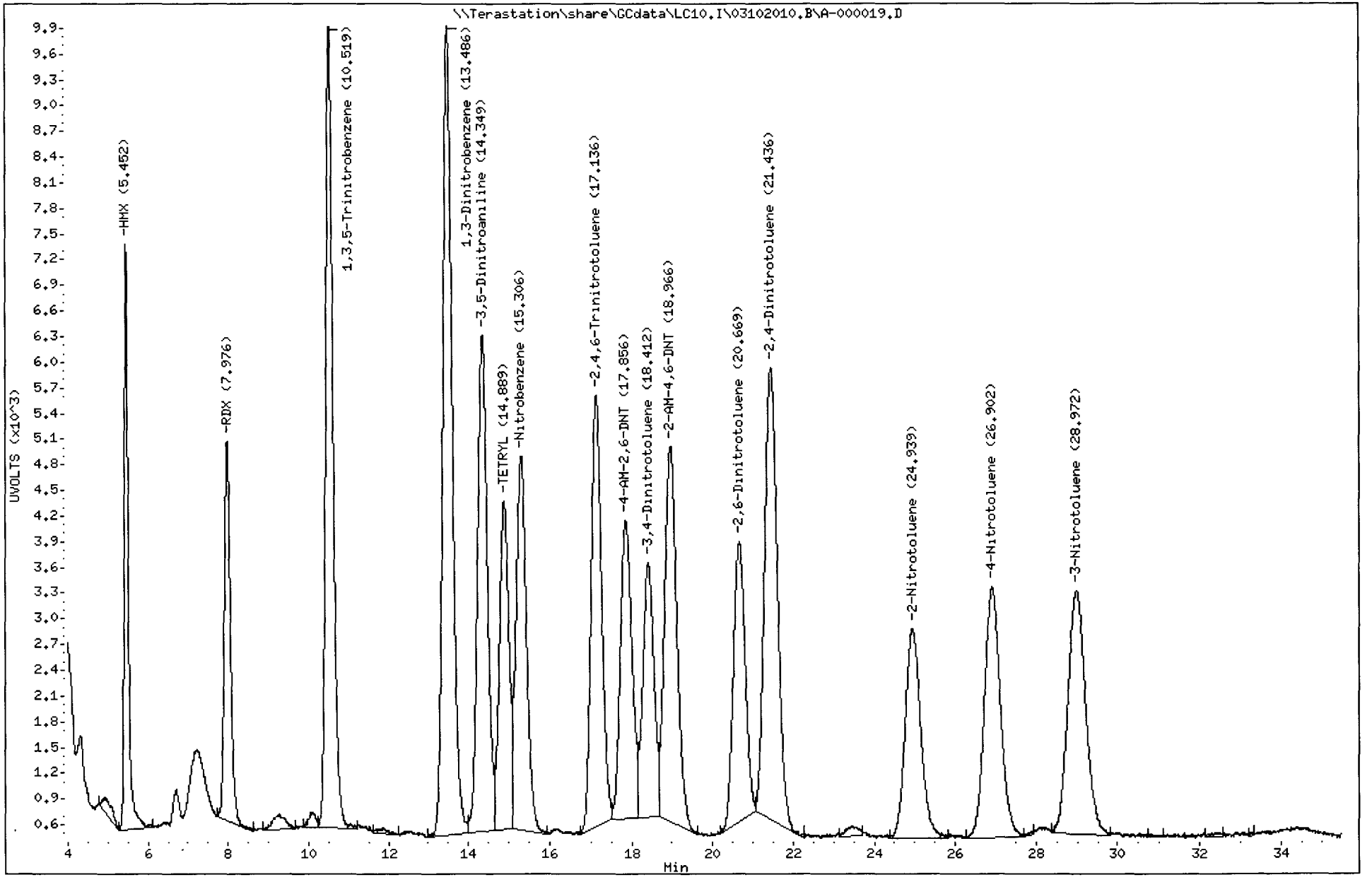
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
4.942	3197	189	0.059	0.24			
5.452	46270	6836	0.148	8.81		2	HMX
7.976	46839	4426	0.094	5.70		3	RDX
9.262	3921	178	0.045	0.22			
10.099	2215	174	0.079	0.22			
10.519	117944	9356	0.079	12.06		6	1,3,5-Trinitrobenze
11.662	1119	37	0.033	0.04			
13.486	149982	9444	0.063	12.31		7	1,3-Dinitrobenzene
14.349	98717	5789	0.059	7.46		8	3,5-Dinitroaniline
14.889	62032	3834	0.062	4.94		9	TETRYL
15.306	78203	4365	0.056	5.62		10	Nitrobenzene
17.136	90510	5049	0.056	6.51		12	2,4,6-Trinitrotolue
17.856	67838	3471	0.051	4.47		13	4-AM-2,6-DNT
18.412	56297	2974	0.053	3.83	$	1	3,4-Dinitrotoluene
18.966	91658	4382	0.048	5.65		14	2-AM-4,6-DNT
20.669	66193	3261	0.049	4.20		15	2,6-Dinitrotoluene
21.436	116086	5270	0.045	6.79		16	2,4-Dinitrotoluene
23.462	2465	118	0.048	0.15			
24.939	64755	2436	0.038	3.14		17	2-Nitrotoluene
26.902	82633	2930	0.035	3.77		18	4-Nitrotoluene
27.922	351	41	0.117	0.05			
28.972	85031	2838	0.033	3.66		19	3-Nitrotoluene
30.802	397	42	0.106	0.05			
32.372	806	55	0.068	0.07			

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
33.302	176	37	0.210	0.04	
	1335634	77532		100.000	

Total unknown % height = 1.080

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000019.D
Date : 11-MAR-2010 06:13
Client ID:
Sample Info: LV3K11AR 0065052 A0B250463-9D;3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



2209

North Canton

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000019.D\A-000019
Lab Smp Id: LV3K11AR 0065052 A0
Inj Date : 11-MAR-2010 06:13
Operator : NS Inst ID: LC10.i
Smp Info : LV3K11AR 0065052 A0B250463-9D;3
Misc Info : MSD;;;10.01;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 25 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

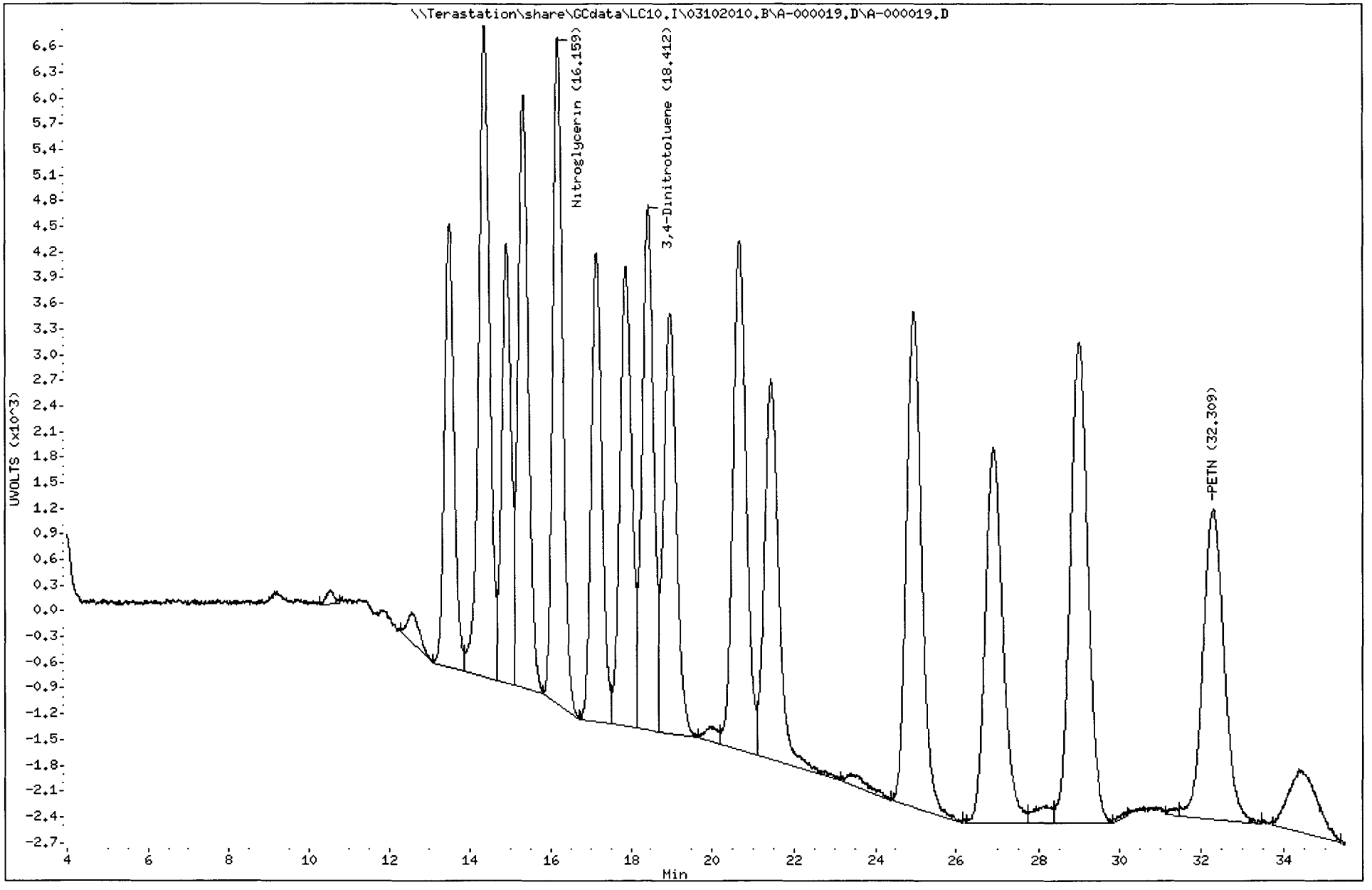
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
10.549	2433	171	0.070	0.19		
12.556	7349	353	0.048	0.40		
13.486	84537	5188	0.061	6.01		
14.342	143420	7613	0.053	8.82		
14.889	81943	5154	0.063	5.97		
15.306	125784	6937	0.055	8.04		
16.159	132549	7792	0.059	9.16		11 Nitroglycerin
17.132	101352	5478	0.054	6.34		
17.859	110342	5379	0.049	6.23		
18.412	121973	6132	0.050	7.10	$	1 3,4-Dinitrotoluene
18.956	107094	4906	0.046	5.68		
19.946	3673	170	0.046	0.19		
20.656	132495	5954	0.045	6.90		
21.436	108895	4443	0.041	5.14		
23.392	5100	138	0.027	0.15		
24.939	152812	5786	0.038	6.70		
26.902	127168	4382	0.034	5.07		
28.192	6151	199	0.032	0.23		
28.972	168538	5617	0.033	6.51		
30.139	736	56	0.076	0.06		
31.382	1045	84	0.080	0.09		
32.309	128417	3615	0.028	4.18		20 PETN
34.372	35877	732	0.020	0.84		
	1889683	86279		100.000		

Total unknown % height = 79.56

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000019.D\A-000019.D
Date : 11-MAR-2010 06:13
Client ID:
Sample Info: LV3K11AR 0065052 A0B250463-9D;3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000020.D

Chromatography Summary

Injection Date: 3/11/2010 7.02 **Operator:** NS

DataFile: LC10 I\03102010.B\A-000020 D **Vial Num:** 26

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3K31AF 0065052 A0B250463-10**

Method File: LC10.I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	**80 mL**	**0 mL**	**10.03 g**

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3K31AF 0065052 A0B250463-10;0

Misc. Info: ,,,10 03;80,2:SOLIDBQSM.sub, ,0.1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.40**	**-0.001**	**3198**	**529.0000<**		**18.39**	**-0.004**	**6121**	**500.1000**		**0.0000**	**0.00**	
HMX											12 0638	248.51	
RDX											11 9641	248 51	
Picric ACID											99 7009	994 03	
1,3,5-Trinitrobenzene											9.9701	248 51	
1,3-Dinitrobenzene											4.1874	248.51	
TETRYL											9 9701	248 51	
Nitrobenzene											17 5474	248 51	
2,4,6-Trinitrotoluene											19 3420	248.51	
4-AM-2,6-DNT											9 9701	248.51	
2-AM-4,6-DNT											12 4626	298.21	
2,6-Dinitrotoluene											7 2782	248 51	
2,4-Dinitrotoluene											5.2841	248 51	
2-Nitrotoluene											12.9611	248 51	
4-Nitrotoluene											18.1456	497 01	
3-Nitrotoluene											15 4536	248 51	
Nitroglycerin											14 9551	497.01	
PETN											24 9252	497 01	
3,5-Dinitroaniline											8 7737	1292 23	

3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**498.5045**	**529.0000**	**106**	**498.5045**	**500.1000**	**100**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 9:20 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000020.D
Lab Smp Id: LV3K31AF 0065052 A0
Inj Date : 11-MAR-2010 07:02
Operator : NS Inst ID: LC10.i
Smp Info : LV3K31AF 0065052 A0B250463-10;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

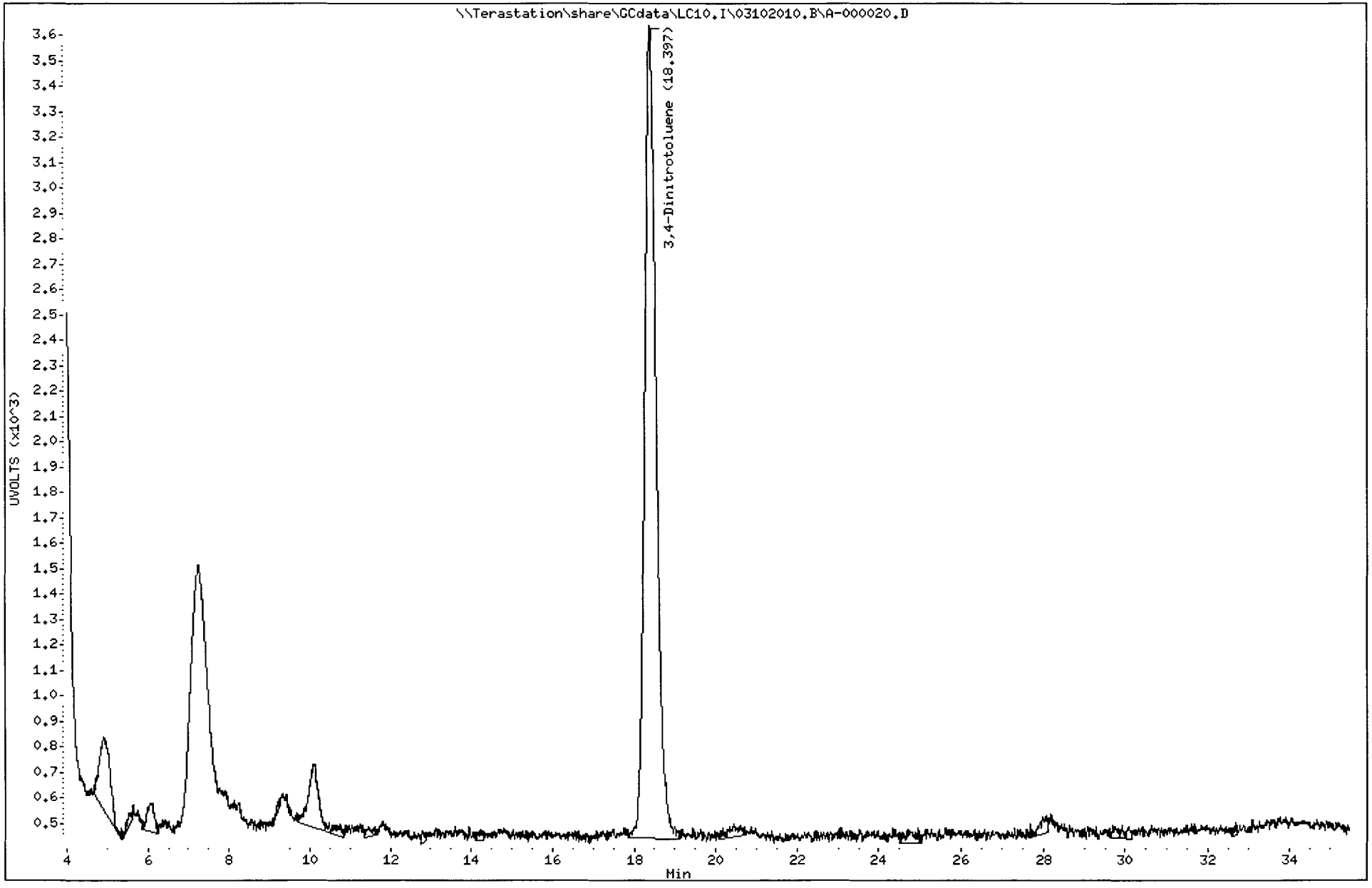
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
4.901	5392	287	0.053	6.59	
5.551	326	37	0.114	0.85	
6.057	1359	113	0.083	2.59	
9.200	154	35	0.227	0.80	
10.121	4998	251	0.050	5.76	
11.444	374	39	0.104	0.89	
12.787	222	48	0.216	1.10	
14.237	301	43	0.143	0.98	
18.397	62847	3198	0.051	73.54	$ 1 3,4-Dinitrotoluene
20.317	959	41	0.043	0.94	
24.677	944	55	0.058	1.26	
27.967	891	64	0.072	1.47	
29.694	394	48	0.122	1.10	
30.077	452	44	0.097	1.01	
32.677	142	49	0.345	1.12	
	79754	4352		100.000	

Total unknown % height = 26.46

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000020.D
Date : 11-MAR-2010 07:02
Client ID:
Sample Info: LV3K31AF 0065052 A0B250463-10;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000020.D\A-000020
Lab Smp Id: LV3K31AF 0065052 A0
Inj Date : 11-MAR-2010 07:02
Operator : NS Inst ID: LC10.i
Smp Info : LV3K31AF 0065052 A0B250463-10;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

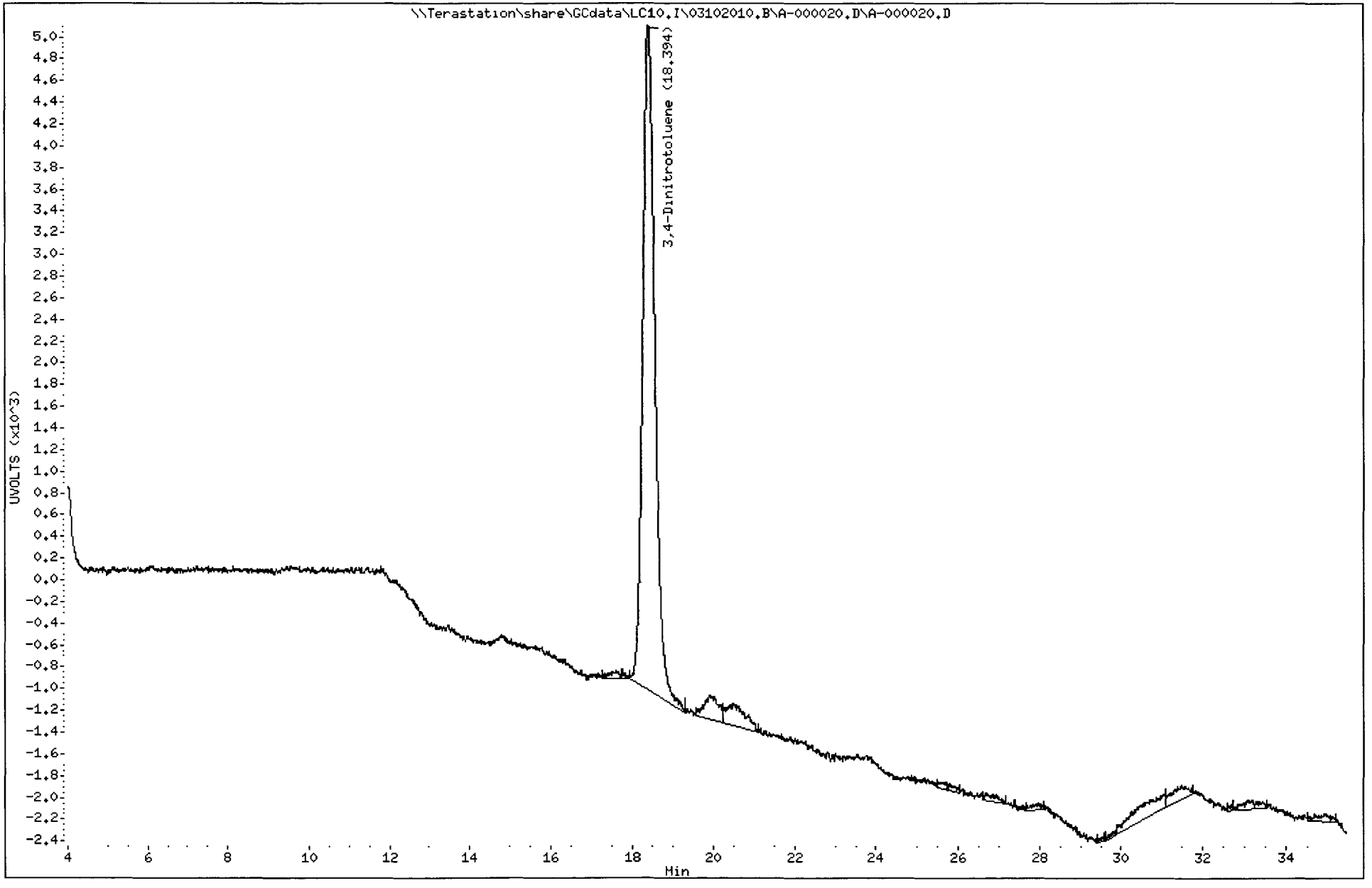
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.607	1346	66	0.049	0.89	
18.394	122135	6121	0.050	83.52	$ 1 3,4-Dinitrotoluene
19.904	5556	223	0.040	3.03	
20.477	6784	200	0.029	2.72	
25.531	1388	61	0.044	0.83	
26.687	1293	65	0.050	0.88	
27.827	1066	55	0.052	0.74	
29.524	248	39	0.157	0.53	
29.871	442	42	0.095	0.57	
31.041	7888	132	0.017	1.79	
31.387	3445	131	0.038	1.78	
32.714	264	51	0.193	0.69	
33.081	2240	82	0.037	1.11	
34.691	1741	68	0.039	0.92	
	155835	7336		100.000	

Total unknown % height = 16.48

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000020.D\A-000020.D
Date : 11-MAR-2010 07:02
Client ID:
Sample Info: LV3K31AF 0065052 A0B250463-10:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000021.D

Chromatography Summary

Injection Date: 3/11/2010 7 51 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000021 D **Vial Num:** 27

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3K71AF 0065052 A0B250463-11**

Method File: LC10 I\03102010 B\8330AB.M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.01 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3K71AF 0065052 A0B250463-11;0

Misc. Info: ,,;10 01,80;2,SOLIDBQSM sub, ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.41**	**0.008**	**3128**	**518.4000<**		**18.40**	**0.005**	**5983**	**489.8000**		**0.0000**	**0.00**	
HMX	5 54	0 085	372	22 3200<							12 0879	249 50	45
RDX	7 86	-0 119	156	13.3200<							11 9880	249 50	45
Picric ACID											99 9001	998 00	
1,3,5-Trinitrobenzene											9 9900	249 50	
1,3-Dinitrobenzene											4 1958	249.50	
TETRYL											9 9900	249 50	
Nitrobenzene											17 5824	249 50	
2,4,6-Trinitrotoluene											19 3806	249 50	
4-AM-2,6-DNT											9 9900	249 50	
2-AM-4,6-DNT											12 4875	299 40	
2,6-Dinitrotoluene											7 2927	249 50	
2,4-Dinitrotoluene											5 2947	249 50	
2-Nitrotoluene											12 9870	249 50	
4-Nitrotoluene											18 1818	499.00	
3-Nitrotoluene											15 4845	249.50	
Nitroglycerin											14.9850	499.00	
PETN											24 9750	499 00	
3,5-Dinitroaniline											8 7912	1297 40	

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**499.5005**	**518.4000**	**104**	**499.5005**	**489.8000**	**98**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/11/2010 9:21 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000021.D
Lab Smp Id: LV3K71AF 0065052 A0
Inj Date : 11-MAR-2010 07:51
Operator : NS Inst ID: LC10.i
Smp Info : LV3K71AF 0065052 A0B250463-11;0
Misc Info : ;;;10.01;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

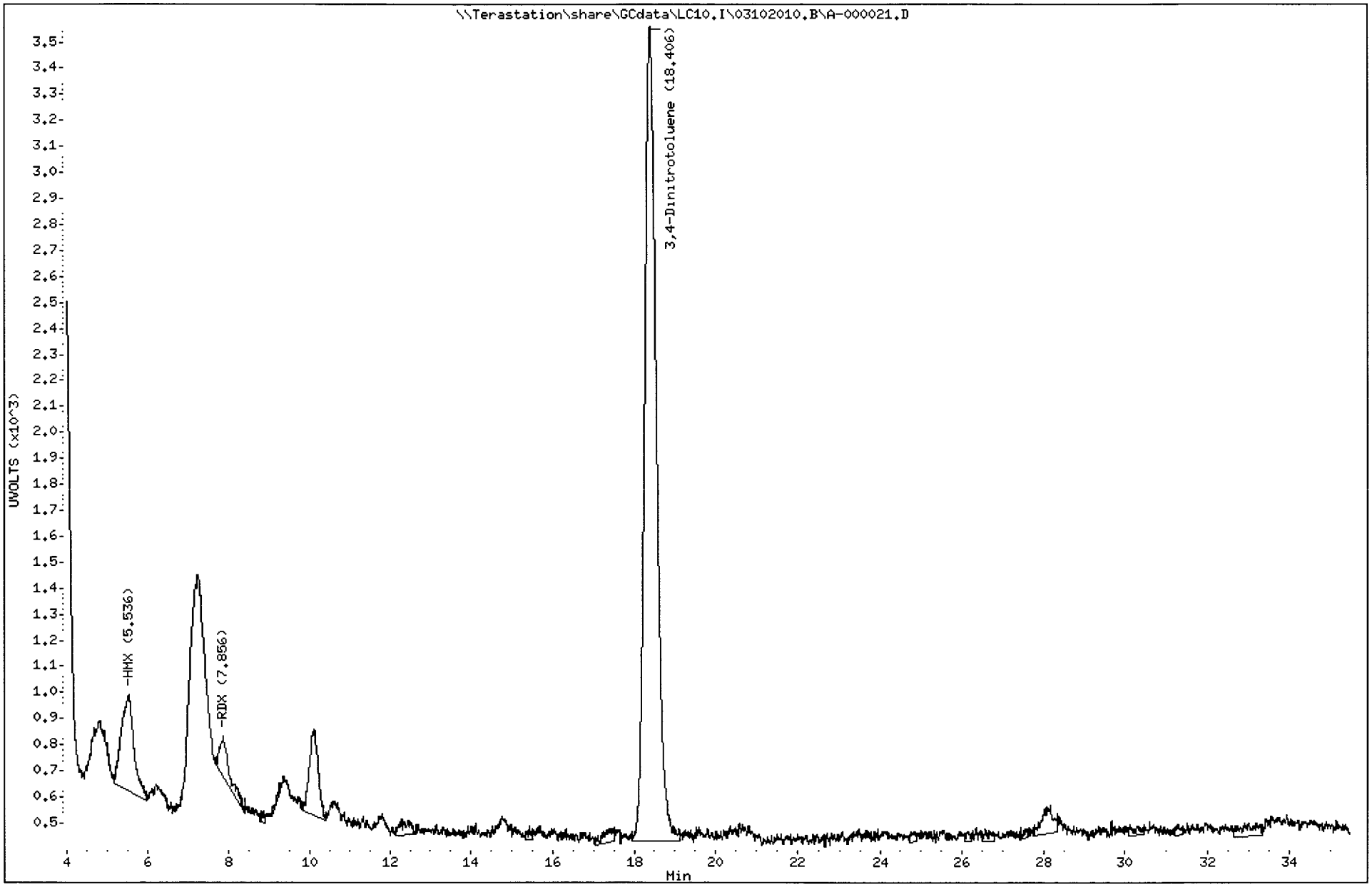
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.536	8019	372	0.046	8.03	2 HMX
7.856	2479	156	0.063	3.37	3 RDX
8.799	185	44	0.238	0.95	
9.239	212	40	0.189	0.86	
10.099	5071	328	0.065	7.08	
12.296	937	61	0.065	1.31	
15.443	251	55	0.219	1.18	
17.376	812	53	0.065	1.14	
18.406	61692	3128	0.051	67.70	$ 1 3,4-Dinitrotoluene
24.839	291	41	0.141	0.88	
26.169	238	41	0.173	0.88	
26.576	442	48	0.109	1.03	
27.526	249	40	0.161	0.86	
28.079	2064	102	0.049	2.20	
30.276	473	35	0.074	0.75	
31.296	331	41	0.124	0.88	
32.723	1300	42	0.032	0.90	
	85044	4627		100.000	

Total unknown % height = 20.90

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000021.D
Date : 11-MAR-2010 07:51
Client ID:
Sample Info: LV3K71AF 0065052 A0B250463-11:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.1
Operator: NS
Column diameter: 4.60



2220

North Canton

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000021.D\A-000021
Lab Smp Id: LV3K71AF 0065052 A0
Inj Date : 11-MAR-2010 07:51
Operator : NS Inst ID: LC10.i
Smp Info : LV3K71AF 0065052 A0B250463-11;0
Misc Info : ;;;10.01;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

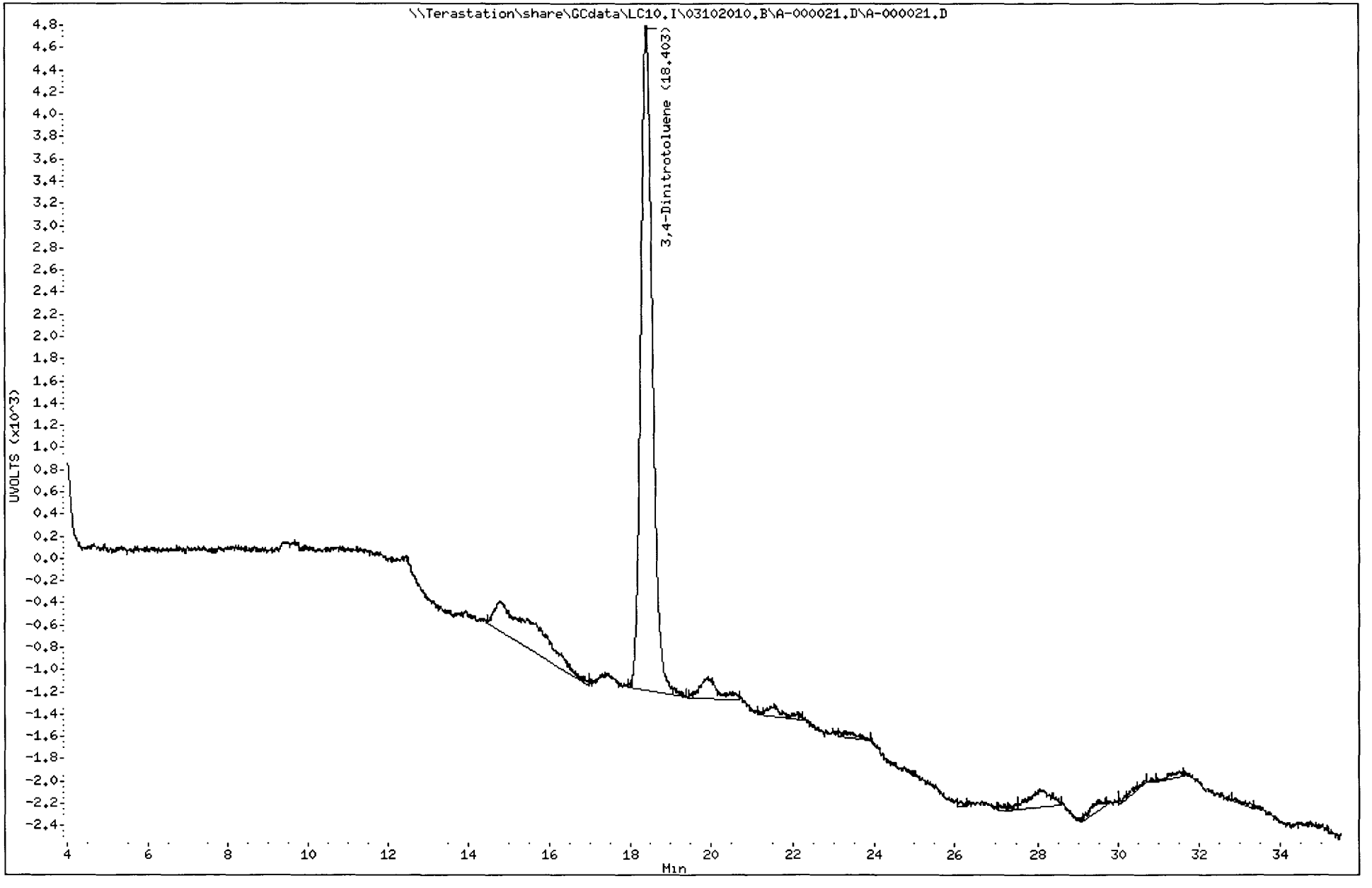
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
14.759	23731	270	0.011	3.71	
18.403	118092	5983	0.051	82.44	$ 1 3,4-Dinitrotoluene
19.913	6353	200	0.031	2.75	
21.543	3123	122	0.039	1.67	
23.446	1351	54	0.040	0.74	
26.166	339	47	0.138	0.64	
27.119	514	53	0.103	0.72	
27.523	550	58	0.105	0.79	
28.039	5622	162	0.029	2.22	
29.476	2046	105	0.051	1.44	
30.159	287	41	0.143	0.56	
30.406	403	41	0.102	0.56	
30.639	286	34	0.119	0.46	
31.316	1194	54	0.045	0.74	
32.889	860	41	0.048	0.56	
	164750	7265		100.000	

Total unknown % height = 17.56

Data File: \\Terastation\share\GCdata\LC10,I\03102010,B\A-000021,D\A-000021,D
Date : 11-MAR-2010 07:51
Client ID:
Sample Info: LV3K71AF 0065052 A0B250463-11;0
Volume Injected (uL): 500,0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10,i
Operator: NS
Column diameter: 4.60



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North Canton

TestAmerica West Sacramento

A-000022.D

Chromatography Summary

Injection Date: 3/11/2010 8 39 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000022 D **Vial Num:** 28

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3K81AF 0065052 A0B250463-12**

Method File: LC10.I\03102010 B\8330AB.M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.06 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3K81AF 0065052 A0B250463-12,0

Misc. Info: ;,;10 06;80.2,SOLIDBQSM sub, ,0.1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.42**	**-0.033**	**3196**	**527.0000<**		**18.42**	**0.024**	**6120**	**498.5000**		**0.0000**	**0.00**	
HMX											12 0278	247 03	
RDX											11 9284	247 03	
Picric ACID											99 4036	988 11	
1,3,5-Trinitrobenzene											9 9404	247 03	
1,3-Dinitrobenzene											4 1750	247 03	
TETRYL											9 9404	247 03	
Nitrobenzene											17 4950	247 03	
2,4,6-Trinitrotoluene											19 2843	247 03	
4-AM-2,6-DNT											9 9404	247 03	
2-AM-4,6-DNT											12 4254	296 43	
2,6-Dinitrotoluene											7 2565	247.03	
2,4-Dinitrotoluene											5 2684	247.03	
2-Nitrotoluene											12.9225	247.03	
4-Nitrotoluene											18 0915	494 05	
3-Nitrotoluene											15.4076	247.03	
Nitroglycerin											14 9105	494 05	
PETN											24.8509	494 05	
3,5-Dinitroaniline											8.7475	1284.54	

M 3/11/10

√

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.0179**	**527.0000**	**106**	**497.0179**	**498.5000**	**100**	**(81-127)**

Notes

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 10:02 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000022.D
Lab Smp Id: LV3K81AF 0065052 A0
Inj Date : 11-MAR-2010 08:39
Operator : NS Inst ID: LC10.i
Smp Info : LV3K81AF 0065052 A0B250463-12;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 09:19 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

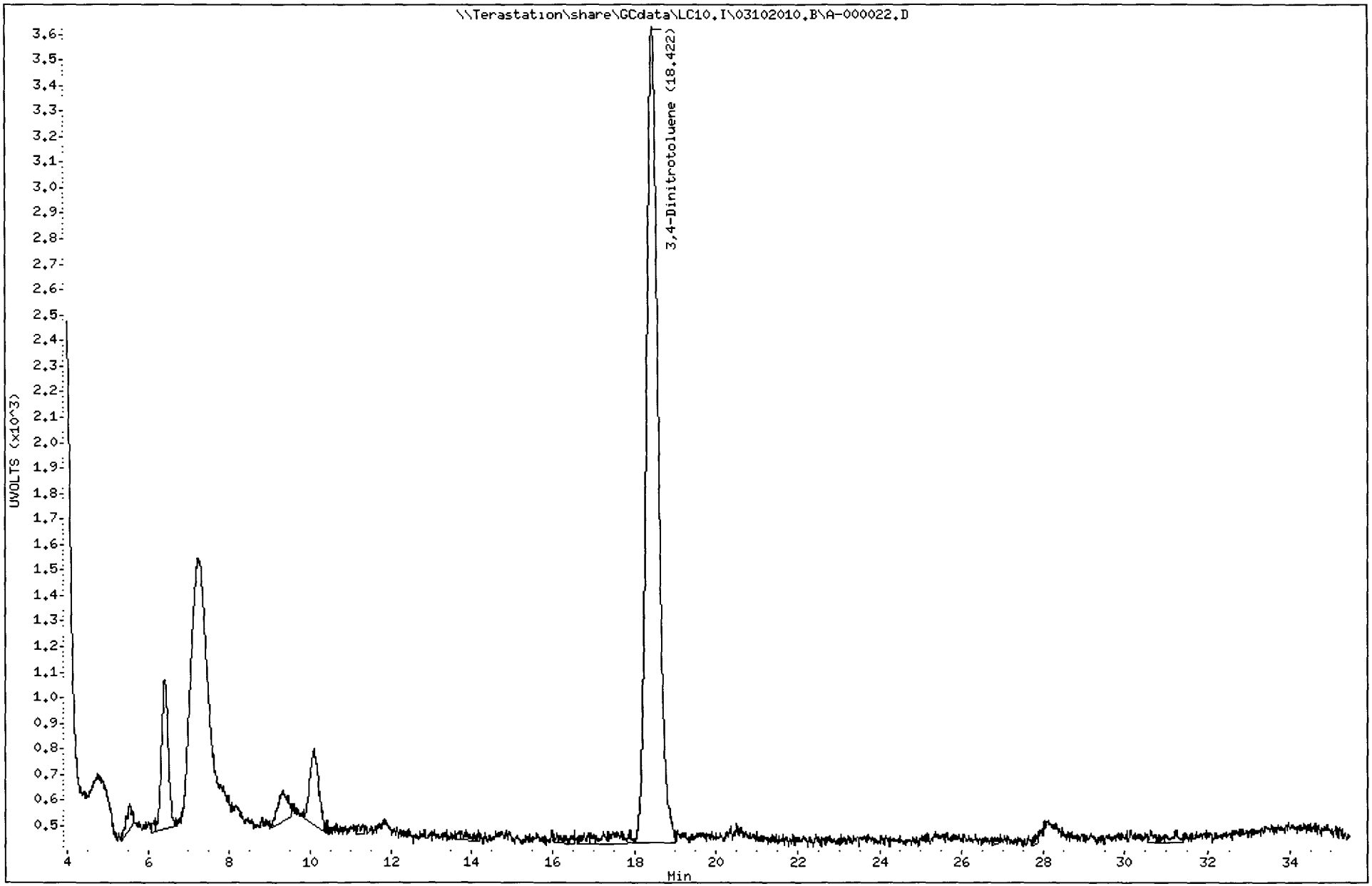
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.452	1004	76	0.076	1.67	
6.159	187	45	0.241	0.98	
6.402	6787	583	0.086	12.81	
9.319	2108	121	0.057	2.65	
10.099	4624	301	0.065	6.61	
11.205	295	40	0.135	0.87	
13.702	731	36	0.049	0.79	
16.105	640	40	0.062	0.87	
18.422	64955	3196	0.049	70.31	$ 1 3,4-Dinitrotoluene
26.799	174	30	0.173	0.65	
27.819	148	34	0.229	0.74	
30.629	1030	48	0.047	1.05	
	82682	4550		100.000	

Total unknown % height = 29.69

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000022.D
Date : 11-MAR-2010 08:39
Client ID:
Sample Info: LV3K81AF 0065052 A0B250463-12:0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.1
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000022.D\A-000022
Lab Smp Id: LV3K81AF 0065052 A0
Inj Date : 11-MAR-2010 08:39
Operator : NS Inst ID: LC10.i
Smp Info : LV3K81AF 0065052 A0B250463-12;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

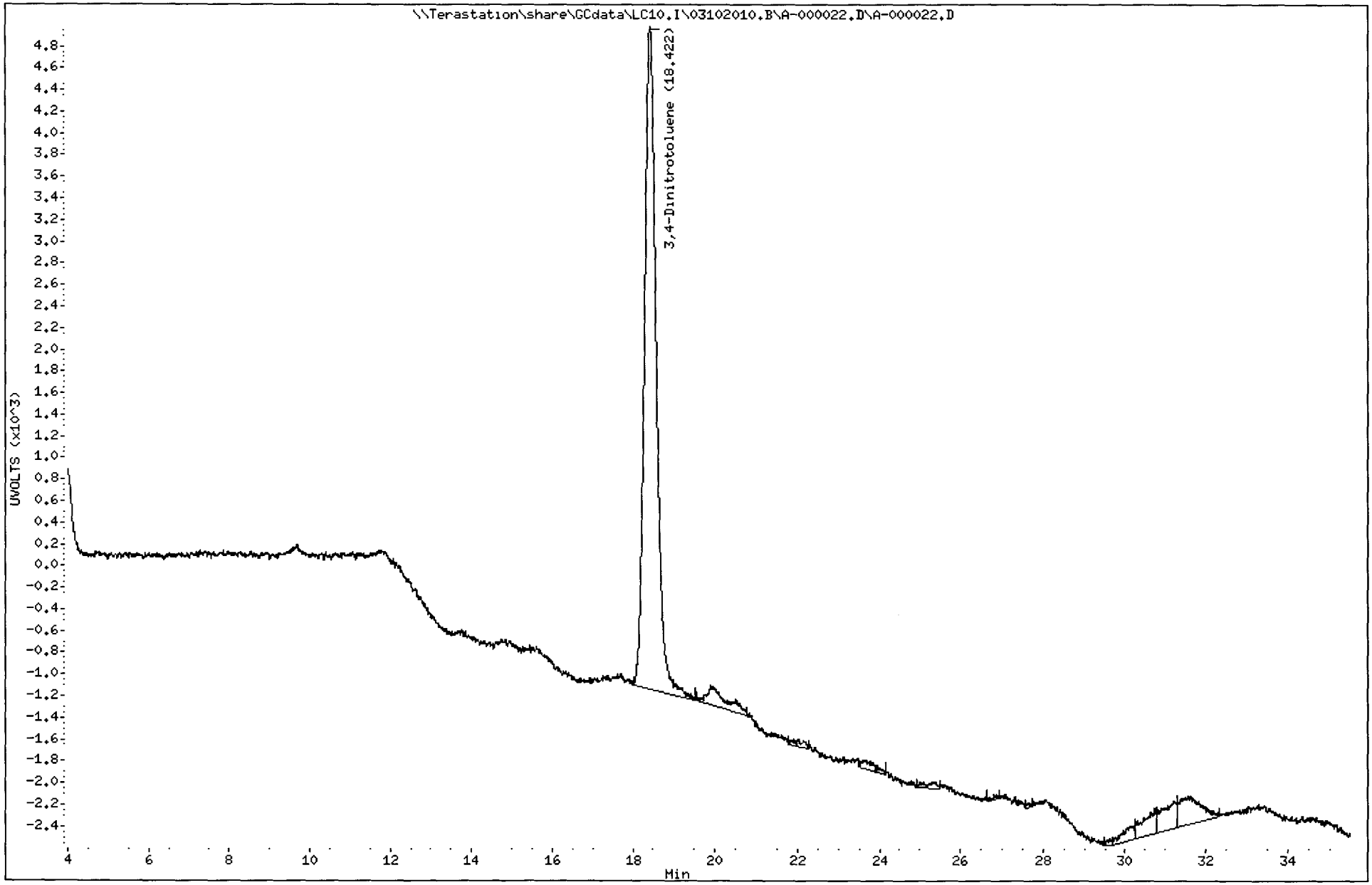
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.422	122464	6120	0.050	81.63	$ 1 3,4-Dinitrotoluene
19.895	5949	177	0.030	2.35	
21.892	1079	53	0.049	0.70	
23.665	1981	82	0.041	1.09	
24.982	1221	53	0.043	0.70	
26.809	409	52	0.127	0.69	
27.635	308	45	0.146	0.59	
29.622	459	63	0.137	0.83	
30.235	2933	127	0.043	1.69	
30.742	5097	235	0.046	3.13	
31.235	6288	243	0.039	3.23	
31.492	9287	253	0.027	3.37	
	157474	7503		100.000	

Total unknown % height = 18.37

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000022.D\A-000022.D
Date : 11-MAR-2010 08:39
Client ID:
Sample Info: LV3K81AF 0065052 A0B250463-12;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000023.D

Chromatography Summary

Injection Date: 3/11/2010 9 27 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000023 D **Vial Num:** 29

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3K91A4 0065052 A0B250463-13**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.05 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3K91A4 0065052 A0B250463-13.0

Misc. Info: ,,,10 05,80:2,SOLIDBQSM sub, ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.41**	**-0.043**	**3118**	**514.7000<**		**18.42**	**-0.018**	**5986**	**488.1000**		**0.0000**	**0.00**	
HMX											12 0398	247 52	
RDX											11 9403	247.52	
Picric ACID											99 5025	990 07	
1,3,5-Trinitrobenzene											9 9502	247 52	
1,3-Dinitrobenzene											4 1791	247 52	
TETRYL	14 77	-0 163	198	17 9500< ND							9 9502	247 52	45
Nitrobenzene		RT ok									17.5124	247.52	
2.4,6-Trinitrotoluene											19 3035	247.52	
4-AM-2,6-DNT											9 9502	247.52	
2-AM-4.6-DNT											12 4378	297 02	
2,6-Dinitrotoluene											7.2637	247.52	
2,4-Dinitrotoluene											5 2736	247 52	
2-Nitrotoluene											12 9353	247 52	
4-Nitrotoluene											18.1095	495 04	
3-Nitrotoluene											15 4229	247 52	
Nitroglycerin											14 9254	495 04	
PETN											24 8756	495.04	
3,5-Dinitroaniline				√							8 7562	1287 10	

M 3/18/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.5124**	**514.7000**	**103**	**497.5124**	**488.1000**	**98**	**(81-127)**

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000023.d
Lab Smp Id: LV3K91A4 0065052 A0
Inj Date : 11-MAR-2010 09:27
Operator : NS Inst ID: LC10.i
Smp Info : LV3K91A4 0065052 A0B250463-13;0
Misc Info : ;;;10.05;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 18-Mar-2010 12:09 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

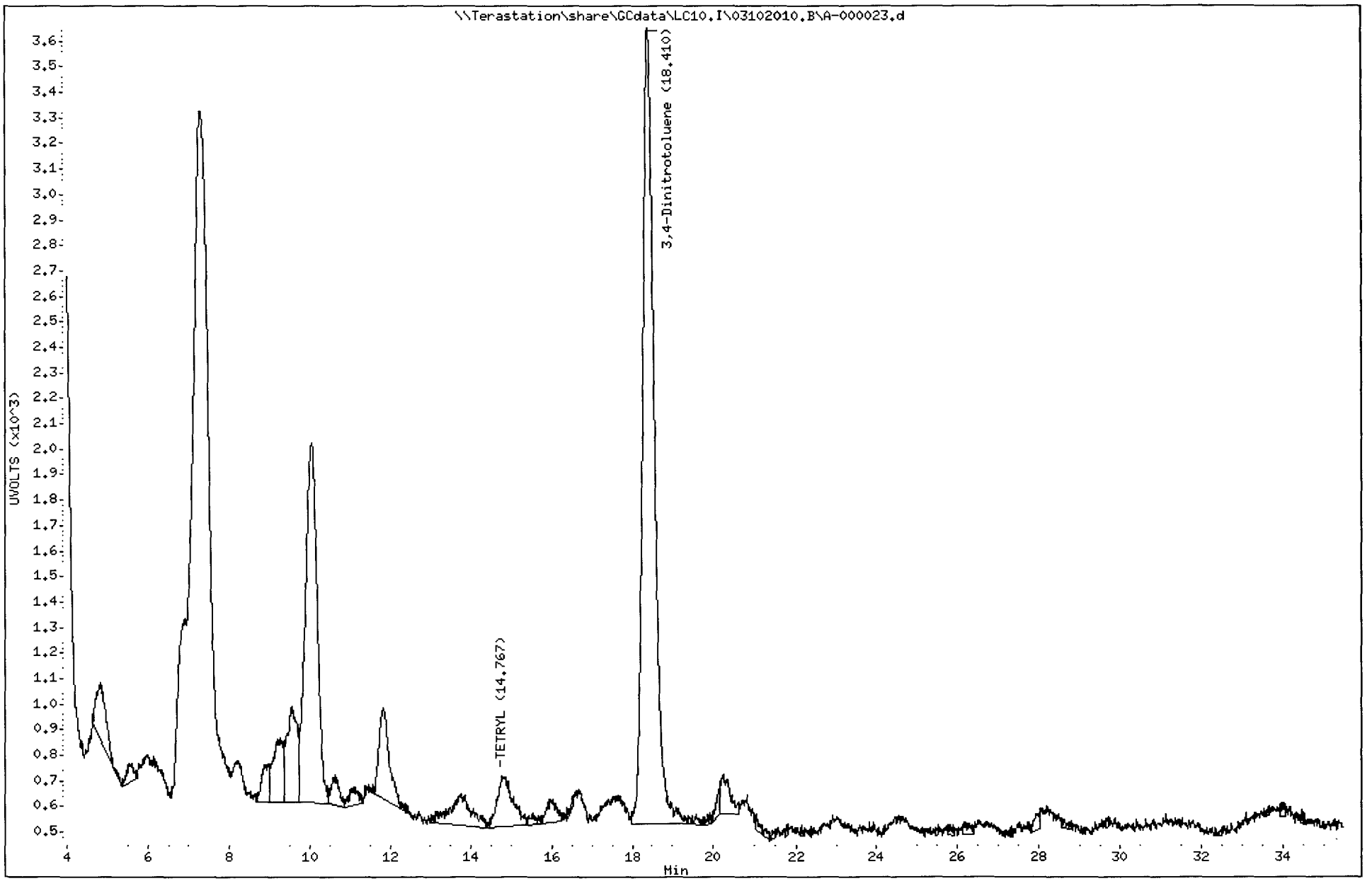
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
0.057	550	46	0.084	0.61		
4.830	3768	221	0.059	2.93		
5.540	854	76	0.089	1.00		
8.904	1883	147	0.078	1.94		
9.260	4614	253	0.055	3.35		
9.554	6446	376	0.058	4.98		
10.070	29005	1413	0.049	18.74		
10.594	1536	108	0.070	1.43		
11.060	1025	67	0.065	0.88		
11.847	6393	361	0.056	4.78		
13.167	4342	47	0.011	0.62		
14.767	5831	198	0.034	2.62		9 TETRYL
15.950	1603	95	0.059	1.25		
16.524	203	41	0.202	0.54		
18.410	62057	3118	0.050	41.52	$	1 3,4-Dinitrotoluene
19.434	417	29	0.070	0.38		
19.870	211	40	0.190	0.53		
20.130	550	101	0.184	1.33		
20.250	2534	155	0.061	2.05		
21.064	563	65	0.116	0.86		
21.444	131	32	0.244	0.42		
21.770	99	42	0.425	0.55		
22.144	90	42	0.465	0.55		
25.517	96	29	0.303	0.38		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
25.810	216	41	0.190	0.54	
26.180	470	50	0.106	0.66	
27.320	67	43	0.643	0.57	
27.940	557	67	0.120	0.88	
28.617	232	38	0.163	0.50	
29.667	104	35	0.338	0.46	
32.360	155	25	0.161	0.33	
33.627	91	32	0.351	0.42	
33.994	245	52	0.212	0.68	
34.494	134	55	0.409	0.72	
	137071	7540		100.000	

Total unknown % height = 55.86

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000023.d
Date : 11-MAR-2010 09:27
Client ID:
Sample Info: LV3K91A4 0065052 A0B250463-13;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000023.d\A-000023
Lab Smp Id: LV3K91A4 0065052 A0
Inj Date : 11-MAR-2010 09:27
Operator : NS Inst ID: LC10.i
Smp Info : LV3K91A4 0065052 A0B250463-13;0
Misc Info : ;;;10.05;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 13-Mar-2010 03:25 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

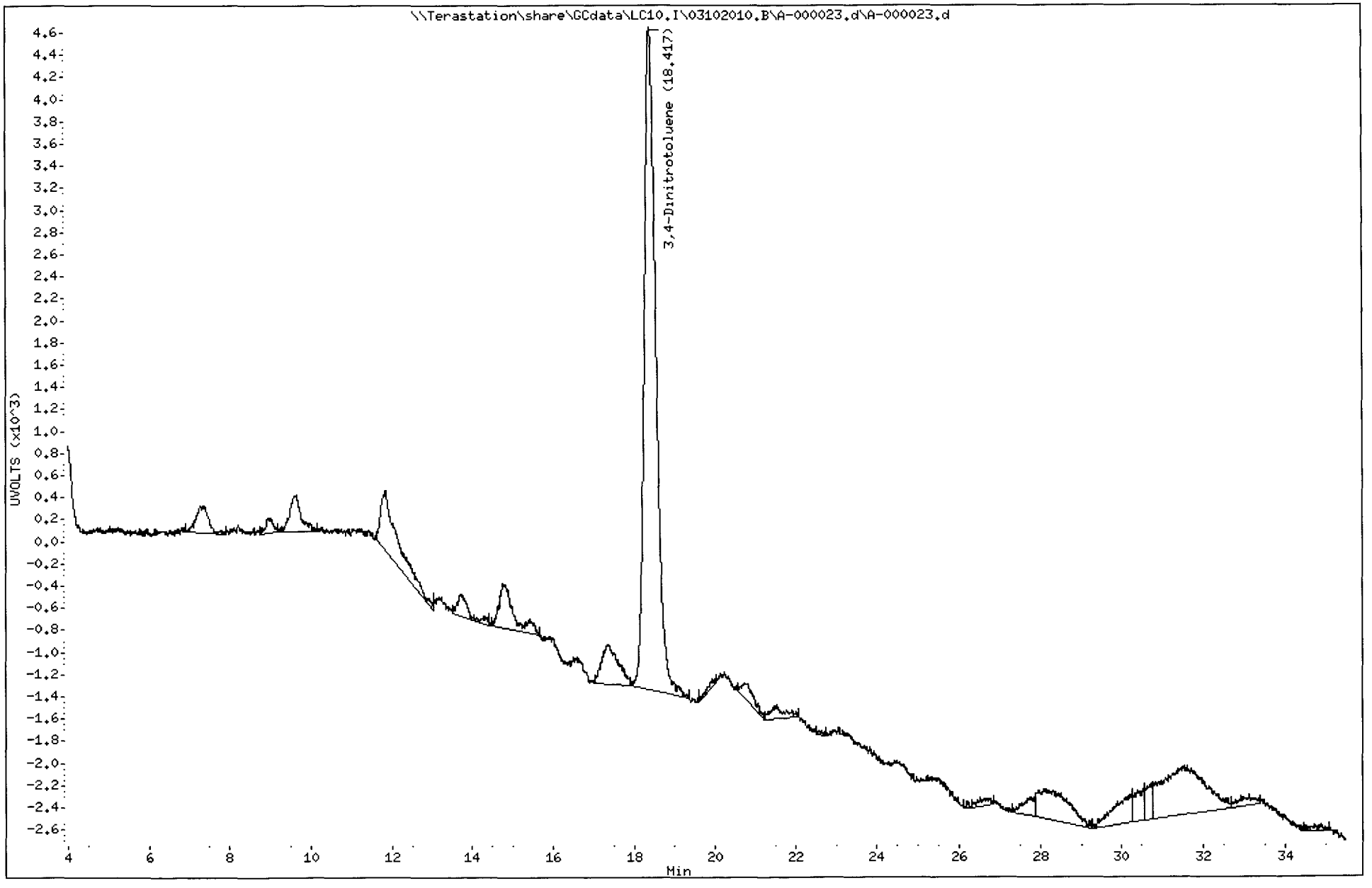
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
7.390	5473	244	0.045	2.30	
8.977	1730	138	0.080	1.30	
9.660	6502	328	0.050	3.09	
11.860	16132	546	0.034	5.15	
13.714	3860	189	0.049	1.78	
14.774	9899	400	0.040	3.77	
17.374	10160	356	0.035	3.36	
18.417	118264	5986	0.051	56.65	$ 1 3,4-Dinitrotoluene
19.934	928	73	0.079	0.68	
20.730	3306	142	0.043	1.34	
21.527	2900	126	0.043	1.19	
22.564	361	43	0.119	0.40	
26.177	240	57	0.237	0.53	
26.504	1290	78	0.060	0.73	
27.774	3185	168	0.053	1.58	
28.100	14607	265	0.018	2.50	
30.220	8161	255	0.031	2.40	
30.544	4687	279	0.060	2.63	
30.724	3254	318	0.098	3.00	
31.520	31912	445	0.014	4.20	
32.917	2179	89	0.041	0.84	
34.724	1124	62	0.055	0.58	
	250155	10587		100.000	

Total unknown % height = 43.35

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000023.d\A-000023.d
Date : 11-MAR-2010 09:27
Client ID:
Instrument: LC10.i
Sample Info: LV3K91A4 0065052 A0B250463-13;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: SYNERGI HYDRORP C18
Column diameter: 4.60



TestAmerica West Sacramento

A-000024.D

Chromatography Summary

Injection Date: 3/11/2010 10 16 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000024 D **Vial Num:** 30

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3LA1AF 0065052 A0B250463-14**

Method File: LC10 I\03102010 B\8330AB.M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.06 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3LA1AF 0065052 A0B250463-14,0

Misc. Info: ,,,10 06.80;2,SOLIDBQSM sub, ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.43**	**-0.021**	**3070**	**506.3000<**		**18.44**	**-0.018**	**5952**	**484.8000**		**0.0000**	**0.00**	
HMX											12 0278	247 03	
RDX											11 9284	247 03	
Picric ACID											99 4036	988.11	
1,3,5-Trinitrobenzene											9 9404	247.03	
1,3-Dinitrobenzene											4.1750	247.03	
TETRYL	14.87	-0.058	211	19/100< not cnf							9.9404	247.03	45
Nitrobenzene											17 4950	247 03	
2,4,6-Trinitrotoluene											19 2843	247 03	
4-AM-2,6-DNT											9 9404	247 03	
2-AM-4,6-DNT											12 4254	296 43	
2,6-Dinitrotoluene											7.2565	247.03	
2,4-Dinitrotoluene											5 2684	247 03	
2-Nitrotoluene											12 9225	247 03	
4-Nitrotoluene											18.0915	494 05	
3-Nitrotoluene											15 4076	247.03	
Nitroglycerin											14 9105	494 05	
PETN											24 8509	494 05	
3,5-Dinitroaniline											8 7475	1284 54	

m 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.0179**	**506.3000**	**102**	**497.0179**	**484.8000**	**98**	**(81-127)**

Notes

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 4:39 PM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000024.D
Lab Smp Id: LV3LA1AF 0065052 A0
Inj Date : 11-MAR-2010 10:16
Operator : NS Inst ID: LC10.i
Smp Info : LV3LA1AF 0065052 A0B250463-14;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 09:27 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

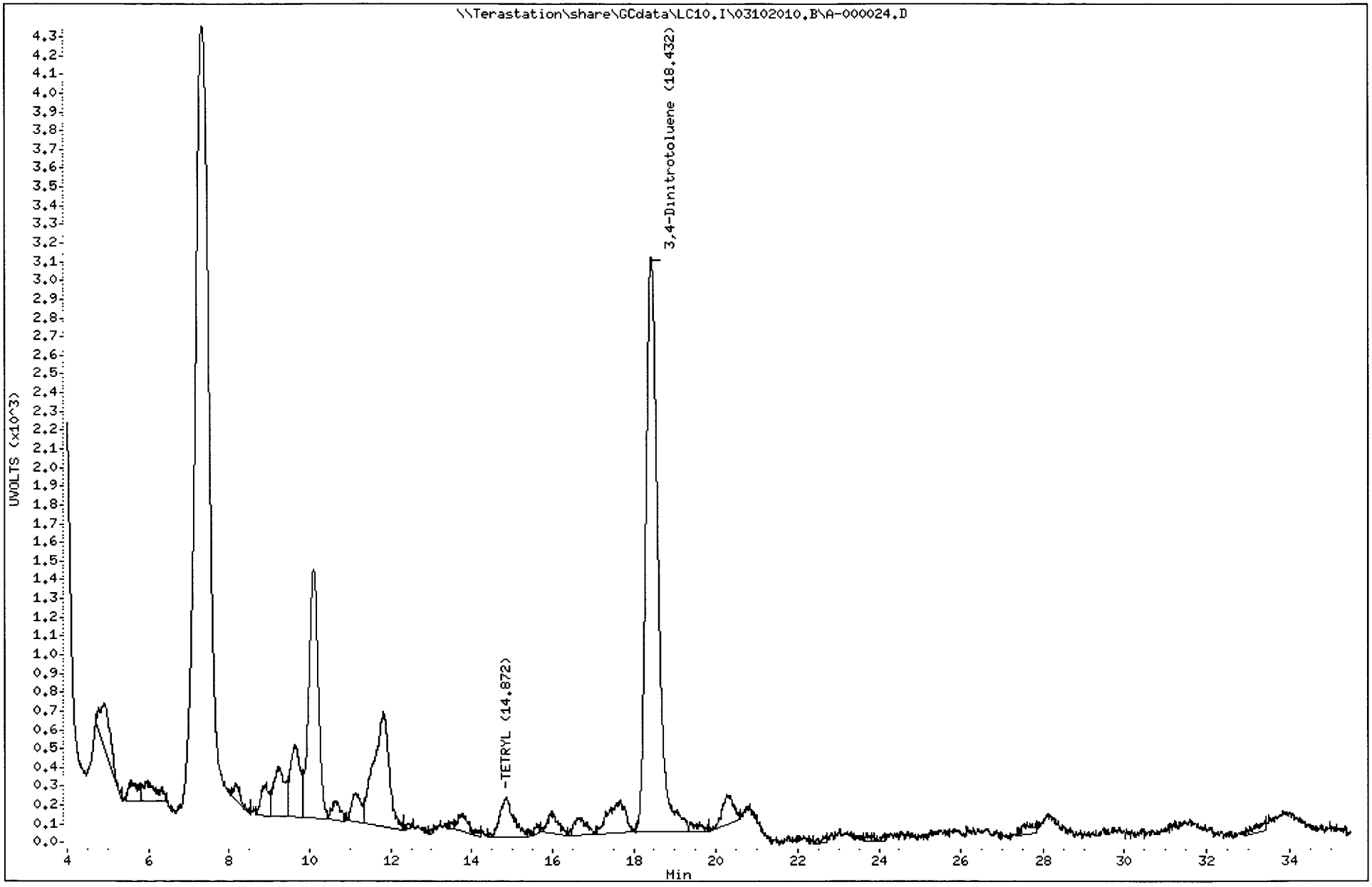
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
4.916	4549	243	0.053	3.12	
5.552	1710	110	0.064	1.41	
5.966	2337	107	0.046	1.37	
8.166	1206	99	0.082	1.27	
8.846	2405	161	0.067	2.06	
9.209	5264	267	0.051	3.43	
9.649	6285	387	0.062	4.97	
10.106	21795	1325	0.061	17.03	
10.659	1475	105	0.071	1.34	
11.129	2500	153	0.061	1.96	
11.819	16012	614	0.038	7.89	
12.422	185	29	0.157	0.37	
12.972	95	30	0.316	0.38	
13.472	174	34	0.196	0.43	
13.749	1793	90	0.050	1.15	
14.872	4968	211	0.042	2.71	9 TETRYL
15.612	491	56	0.114	0.71	
15.982	2214	113	0.051	1.45	
16.619	2048	95	0.046	1.22	
17.322	5092	121	0.024	1.55	
18.432	63439	3070	0.048	39.61	$ 1 3,4-Dinitrotoluene
20.269	3228	162	0.050	2.08	
22.669	357	39	0.109	0.50	
23.706	755	45	0.060	0.57	

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
27.596	1114	63	0.057	0.80	
33.402	854	49	0.057	0.62	
	152345	7778		100.000	

Total unknown % height = 57.68

Data File: \\Terastation\share\GCdata\LC10,I\03102010,B\A-000024,D
Date : 11-MAR-2010 10:16
Client ID:
Sample Info: LV3LA1AF 0065052 A0B250463-14;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10,i
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000024.D\A-000024
Lab Smp Id: LV3LA1AF 0065052 A0
Inj Date : 11-MAR-2010 10:16
Operator : NS Inst ID: LC10.i
Smp Info : LV3LA1AF 0065052 A0B250463-14;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 02:55 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 30
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

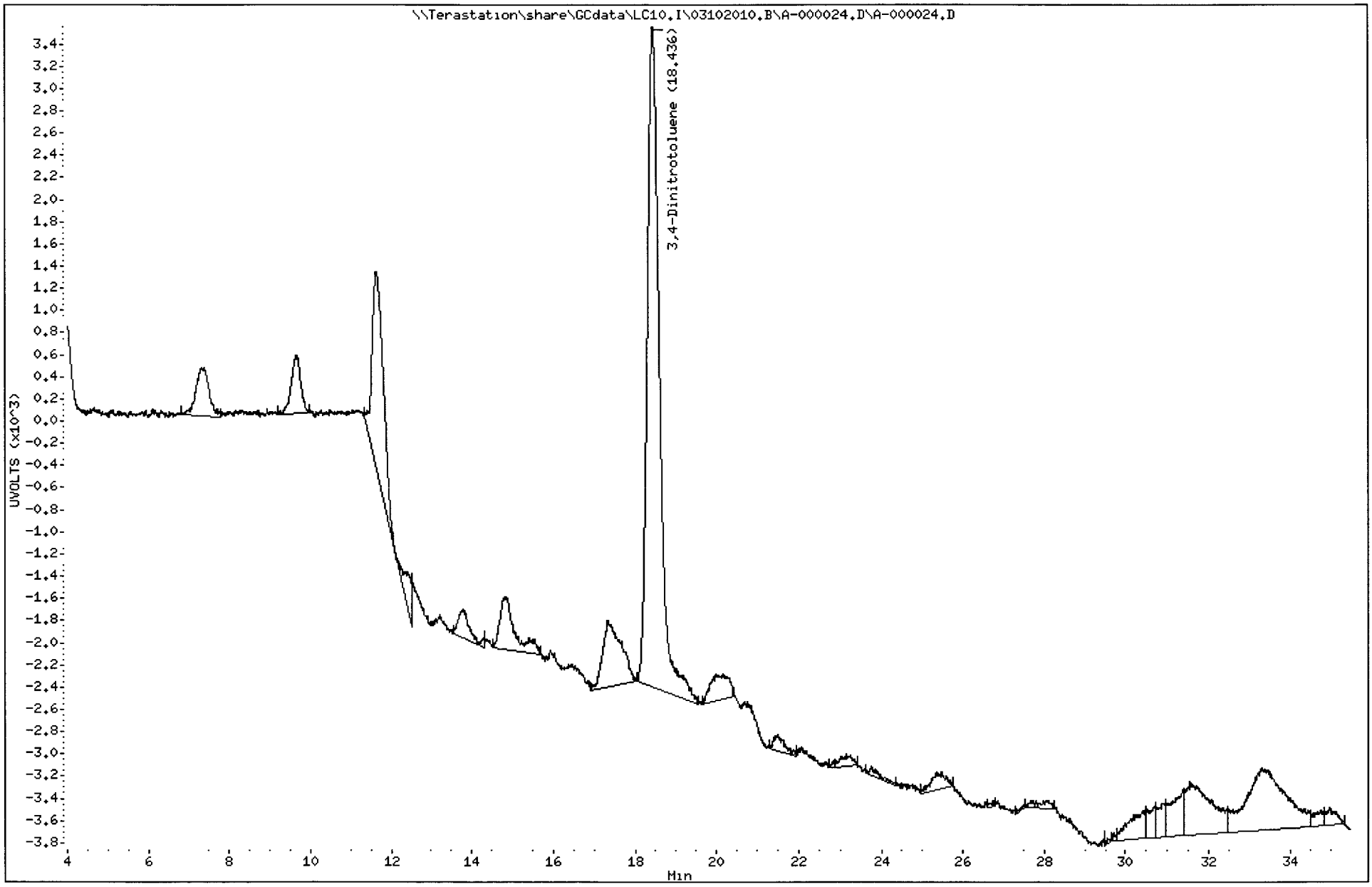
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
7.382	9805	432	0.044	3.15	
9.649	8604	530	0.062	3.87	
11.629	40082	1791	0.045	13.08	
13.782	5118	260	0.051	1.90	
14.872	12378	479	0.039	3.50	
17.326	18513	597	0.032	4.36	
18.436	122523	5952	0.049	43.61	$ 1 3,4-Dinitrotoluene
19.992	7219	244	0.034	1.78	
21.499	2606	146	0.056	1.06	
22.839	260	62	0.238	0.45	
23.036	1970	93	0.047	0.67	
23.759	1468	85	0.058	0.62	
25.369	3611	152	0.042	1.11	
26.749	286	49	0.171	0.35	
27.532	314	34	0.108	0.24	
27.722	1659	66	0.040	0.48	
29.546	227	48	0.211	0.35	
29.699	302	67	0.222	0.48	
30.472	6823	245	0.036	1.79	
30.676	3360	281	0.084	2.05	
30.892	4124	306	0.074	2.23	
31.366	8269	411	0.050	3.00	
31.539	20885	481	0.023	3.51	
33.306	37884	561	0.015	4.09	

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
34.759	2065	145	0.070	1.05	
34.989	2915	167	0.057	1.22	
	323271	13684		100.000	

Total unknown % height = 56.39

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000024.D\A-000024.D
Date : 11-MAR-2010 10:16
Client ID:
Sample Info: LV3LA1AF 0065052 A0B250463-14;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



2240

North Canton

TestAmerica West Sacramento

A-000025.D

Chromatography Summary

Method 8330 Target Analyte Results

Injection Date: 3/11/2010 11:05 **Operator:** NS

DataFile: LC10 B\03102010 B\A-000025.D **Vial Num:** 3

Instrument ID: LC10

Sample : **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10 B\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL,2

Misc. Info: .5, , ,3,CAL sub, ,0 1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18 45	4767	98 8500<	100	-1%	Acceptable		18 45	9804	100 4000	100	0%	Acceptable		(±15)	
HMX	5 46	13239	99 3800<	100	-1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
RDX	8 00	9338	103 5000<	100	4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
Picric ACID	9 24	18744	213.8000	200	7%	Acceptable		9 24	27653	214 9000<	200	7%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10 53	16265	101.1000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
1,3-Dinitrobenzene	13 51	15776	100 5000<	100	1%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
TETRYL	14 93	8198	93 3700<	100	-7%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
Nitrobenzene	15 34	6991	94 4300<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
2,4,6-Trinitrotoluene	17 17	9066	94 8800<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
4-AM-2,6-DNT	17 91	6955	97 5700<	100	-2%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
2-AM-4,6-DNT	19 02	7873	97 0000<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
2,6-Dinitrotoluene	20 70	5441	96 0800<	100	-4%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
2,4-Dinitrotoluene	21 47	8880	96 6500<	100	-3%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
2-Nitrotoluene	24 99	3811	93 5700<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
4-Nitrotoluene	26 96	4636	95 1700<	100	-5%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
3-Nitrotoluene	29 02	4500	93 7300<	100	-6%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
Nitroglycerin				**100**	**-100%**	**Fails**		16 19	6362	101 5000<	100	2%	Acceptable		(±15)	**45**
PETN				**100**	**-100%**	**Fails**		32 34	2903	91 8300<	100	-8%	Acceptable		(±15)	**45**
3,5-Dinitroaniline	14 40	10288	99 9000<	100	0%	Acceptable					**100**	**-100%**	**Fails**		(±15)	**45**
EGDN				**100**	**-100%**	**Fails**					**100**	**-100%**	**Fails**		(±15)	

m 3/11/10

Notes

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 4:39 PM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000025.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 11:05
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

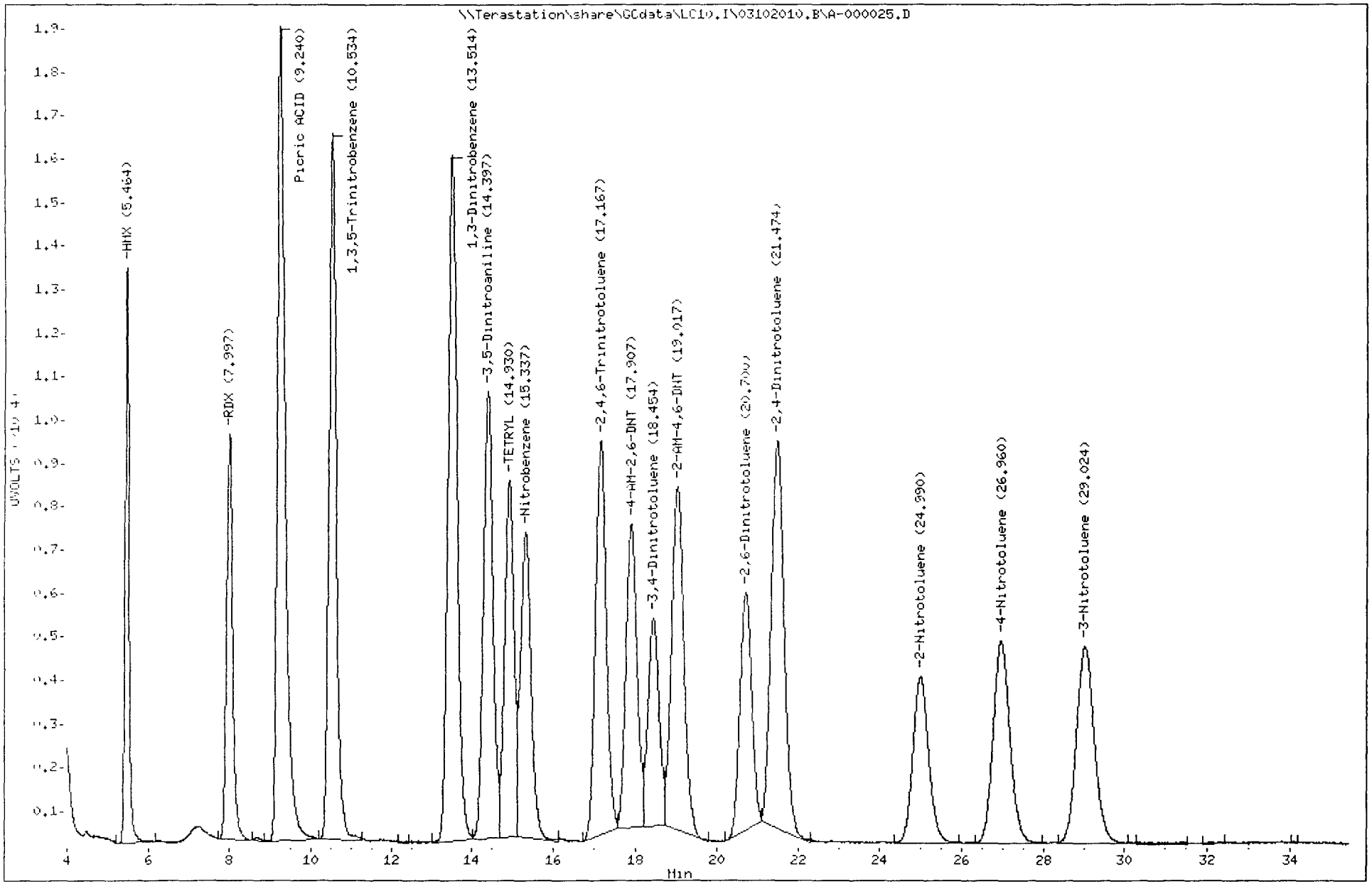
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.464	84809	13239	0.156	8.54		2 HMX
7.997	96633	9338	0.097	6.02		3 RDX
8.710	881	88	0.100	0.05		
9.240	251407	18744	0.075	12.22		5 Picric ACID
10.534	205687	16265	0.079	10.49		6 1,3,5-Trinitrobenze
12.200	351	27	0.077	0.01		
13.514	247006	15776	0.064	10.17		7 1,3-Dinitrobenzene
14.397	168690	10288	0.061	6.63		8 3,5-Dinitroaniline
14.930	132846	8198	0.062	5.28		9 TETRYL
15.337	124250	6991	0.056	4.50		10 Nitrobenzene
17.167	162117	9066	0.056	5.84		12 2,4,6-Trinitrotolue
17.907	131318	6955	0.053	4.48		13 4-AM-2,6-DNT
18.454	88647	4767	0.054	3.07	$	1 3,4-Dinitrotoluene
19.017	163739	7873	0.048	5.07		14 2-AM-4,6-DNT
20.700	110843	5441	0.049	3.51		15 2,6-Dinitrotoluene
21.474	194836	8880	0.046	5.72		16 2,4-Dinitrotoluene
24.990	100033	3811	0.038	2.45		17 2-Nitrotoluene
26.960	131398	4636	0.035	2.99		18 4-Nitrotoluene
29.024	136529	4500	0.033	2.90		19 3-Nitrotoluene
30.364	1996	46	0.023	0.02		
32.097	868	40	0.046	0.02		
34.104	177	44	0.248	0.02		
	2535060	155013		100.000		

Total unknown % height = 0.1200

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000025.D
Date : 11-MAR-2010 11:05
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.1
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000025.D\A-000025
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 11:05
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.240	372517	27653	0.074	17.45		5 Picric ACID
10.517	3942	282	0.072	0.17		
13.517	125971	8162	0.065	5.11		
14.397	176632	10791	0.061	6.76		
14.930	178879	11088	0.062	6.94		
15.337	194801	10971	0.056	6.87		
16.194	108303	6362	0.059	3.98		11 Nitroglycerin
17.167	180980	9845	0.054	6.17		
17.904	211177	10688	0.051	6.69		
18.454	191932	9804	0.051	6.14	$	1 3,4-Dinitrotoluene
19.014	185352	8529	0.046	5.34		
20.704	215506	9838	0.046	6.16		
21.477	172143	7371	0.043	4.61		
24.984	240545	9144	0.038	5.73		
26.960	192669	6788	0.035	4.25		
28.304	2532	175	0.069	0.10		
29.024	267768	8889	0.033	5.57		
30.140	159	17	0.107	0.01		
30.444	370	26	0.070	0.01		
30.674	411	78	0.190	0.04		
30.847	1339	86	0.064	0.05		
32.337	100178	2903	0.029	1.81		20 PETN
34.884	1809	66	0.036	0.04		
	3125916	159556		100.000		

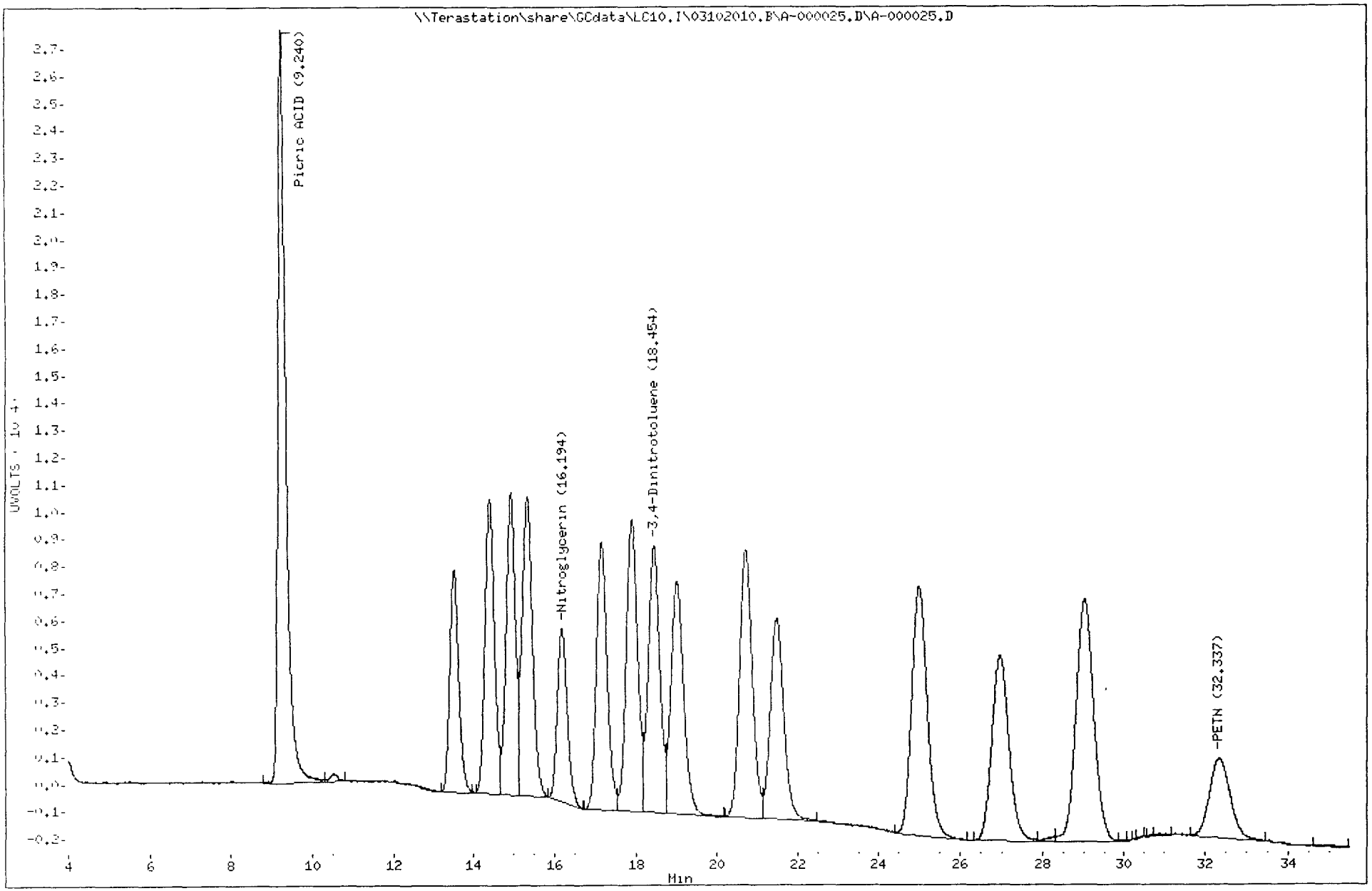
Total unknown % height = 70.62

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000025.D\A-000025.D
Date : 11-MAR-2010 11:05
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.1

Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

A-000026.D

Chromatography Summary

Injection Date: 3/11/2010 11.53 **Operator:** NS

DataFile: LC10.I\03102010 B\A-000026.D **Vial Num:** 31

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3LC1AN 0065052 A0B250463-15**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23.38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3LC1AN 0065052 A0B250463-15,0

Misc. Info: ,,,10 00,80;2;SOLIDBQSM sub, ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.45**	**-0.002**	**3456**	**573.3000<**		**18.44**	**-0.016**	**7698**	**630.8000**		**0.0000**	**0.00**	
HMX											12 1000	250 00	
RDX											12.0000	250 00	
Picric ACID											100.0000	1000 00	
1,3,5-Trinitrobenzene											10 0000	250 00	
1,3-Dinitrobenzene											4.2000	250 00	
TETRYL	14 87	-0 056	201	18/3100< not cont.							10 0000	250.00	45
Nitrobenzene											17 6000	250 00	
2,4,6-Trinitrotoluene											19 4000	250 00	
4-AM-2,6-DNT											10 0000	250 00	
2-AM-4,6-DNT											12 5000	300 00	
2,6-Dinitrotoluene											7 3000	250 00	
2,4-Dinitrotoluene											5 3000	250 00	
2-Nitrotoluene											13 0000	250 00	
4-Nitrotoluene											18 2000	500 00	
3-Nitrotoluene											15 5000	250 00	
Nitroglycerin											15 0000	500 00	
PETN											25 0000	500 00	
3,5-Dinitroaniline											8.8000	1300 00	

m 3/11/10

✓

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**573.3000**	**115**	**500.0000**	**630.8000**	**126**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 4:40 PM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000026.D
Lab Smp Id: LV3LC1AN 0065052 A0
Inj Date : 11-MAR-2010 11:53
Operator : NS Inst ID: LC10.i
Smp Info : LV3LC1AN 0065052 A0B250463-15;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 31
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
0.055	114	33	0.290	0.44		
5.578	674	69	0.102	0.92		
8.861	1131	107	0.095	1.43		
9.645	5982	362	0.061	4.86		
10.111	19424	1230	0.063	16.54		
10.688	1330	87	0.065	1.16		
11.135	1918	142	0.074	1.90		
11.715	21378	742	0.035	9.97		
13.651	2187	63	0.029	0.84		
14.875	5963	201	0.034	2.70		9 TETRYL
15.981	3206	152	0.047	2.04		
16.715	1007	73	0.073	0.98		
17.298	3976	86	0.022	1.15		
18.451	71996	3456	0.048	46.59	$	1 3,4-Dinitrotoluene
20.268	4583	172	0.038	2.31		
22.441	332	45	0.136	0.60		
25.208	575	46	0.080	0.61		
27.611	1016	71	0.070	0.95		
28.198	7089	218	0.031	2.93		
30.725	180	37	0.206	0.49		
32.928	429	44	0.102	0.59		
	154492	7436		100.000		

Total unknown % height = 50.71

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000026.D

Date : 11-MAR-2010 11:53

Client ID:

Instrument: LC10.i

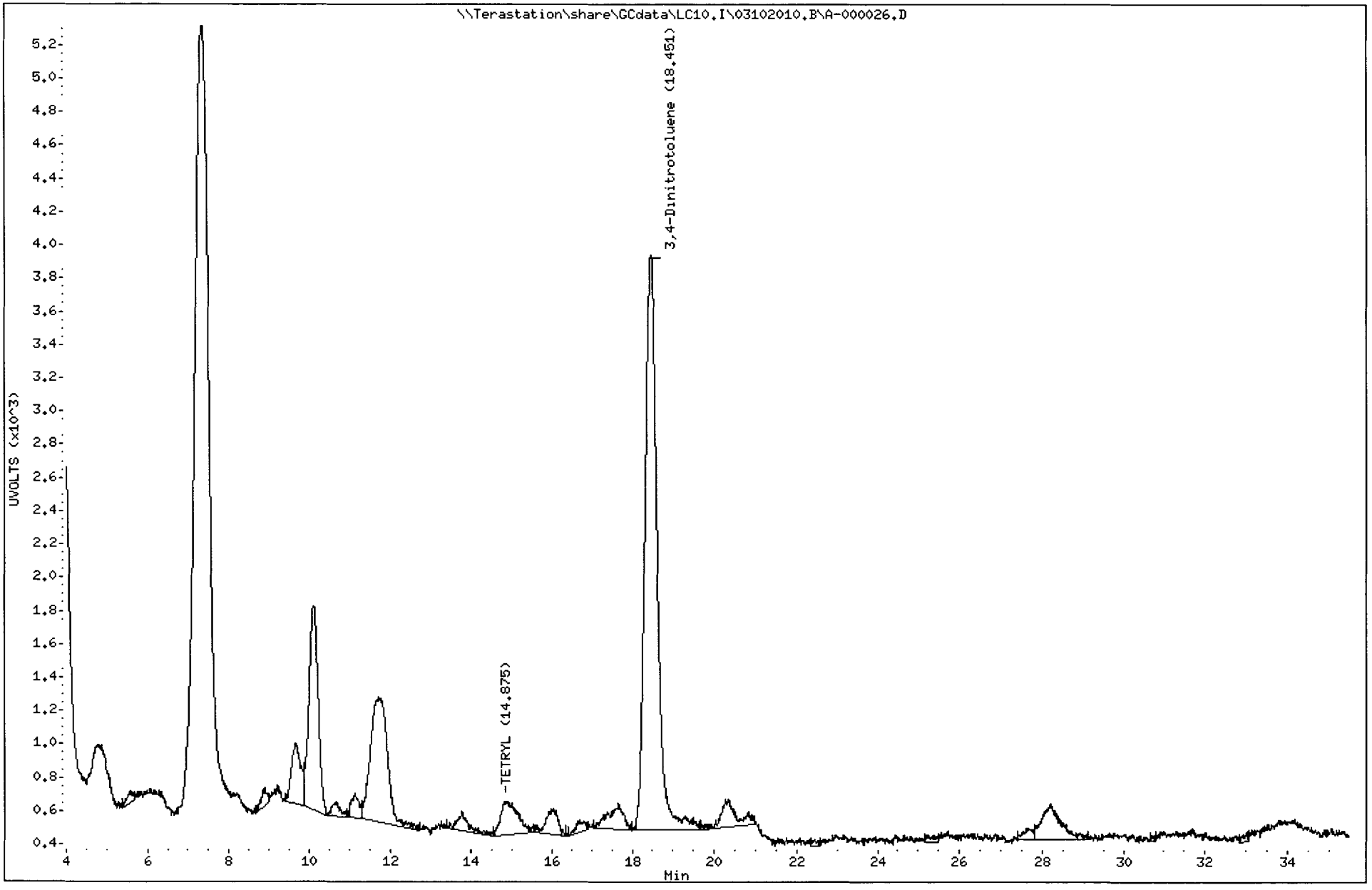
Sample Info: LV3LC1AN 0065052 A0B250463-15;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000026.D\A-000026
Lab Smp Id: LV3LC1AN 0065052 A0
Inj Date : 11-MAR-2010 11:53
Operator : NS Inst ID: LC10.i
Smp Info : LV3LC1AN 0065052 A0B250463-15;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 31
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

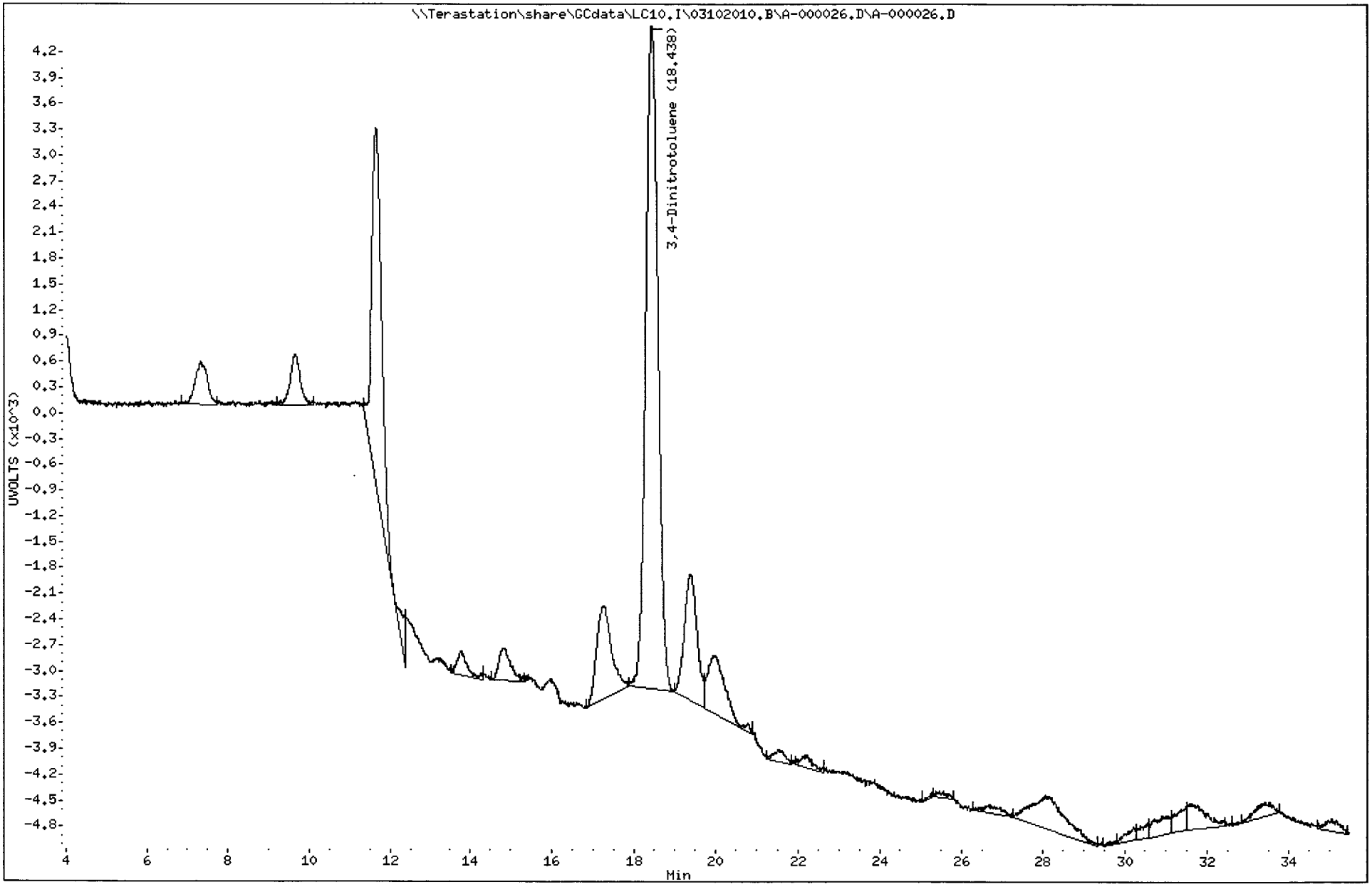
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
7.315	10373	504	0.049	2.61	
9.641	10239	586	0.057	3.04	
11.655	76862	4175	0.054	21.70	
13.771	4953	273	0.055	1.41	
14.851	7728	378	0.049	1.96	
17.241	27057	1090	0.040	5.66	
18.438	155099	7698	0.050	40.14	$ 1 3,4-Dinitrotoluene
19.381	32397	1468	0.045	7.63	
19.978	20676	680	0.033	3.53	
21.525	2533	138	0.054	0.71	
22.191	2797	146	0.052	0.75	
25.251	341	61	0.179	0.31	
25.451	1140	79	0.069	0.41	
26.678	2941	93	0.032	0.48	
28.061	21805	374	0.017	1.94	
29.765	469	41	0.087	0.21	
30.225	2330	161	0.069	0.83	
30.578	2660	171	0.064	0.88	
30.901	5768	220	0.038	1.14	
31.365	4834	263	0.054	1.36	
31.635	9308	297	0.032	1.54	
32.748	273	39	0.143	0.20	
33.428	5062	168	0.033	0.87	
35.065	3263	134	0.041	0.69	

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
	410908	19237		100.000	

Total unknown % height = 59.86

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000026.D\A-000026.D
Date : 11-MAR-2010 11:53
Client ID:
Sample Info: LV3LC1AN 0065052 A0B250463-15;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000027.D

Chromatography Summary

Injection Date: 3/11/2010 12.42 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000027.D **Vial Num:** 32

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3LE1AW 0065052 A0B250463-16**

Method File: LC10 I\03102010.B\8330AB M

Start Cal Date: 3/1/2010 17.59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	9.99 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3LE1AW 0065052 A0B250463-16,0

Misc. Info: ,,,9.99,80,2;SOLIDBQSM sub, ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.43**	**-0.021**	**3037**	**504.3000<**		**18.43**	**-0.021**	**5895**	**483.6000**		**0.0000**	**0.00**	
HMX											12 1121	250 50	
RDX											12.0120	250 50	
Picric ACID											100 1001	1002.00	
1,3,5-Trinitrobenzene											10 0100	250 50	
1,3-Dinitrobenzene											4.2042	250.50	
TETRYL	14 77	-0 158	149	13.5000<							10 0100	250 50	45
Nitrobenzene											17 6176	250 50	
2,4,6-Trinitrotoluene											19.4194	250 50	
4-AM-2,6-DNT											10 0100	250 50	
2-AM-4,6-DNT											12 5125	300 60	
2,6-Dinitrotoluene											7.3073	250 50	
2,4-Dinitrotoluene											5 3053	250 50	
2-Nitrotoluene											13 0130	250.50	
4-Nitrotoluene											18.2182	501.00	
3-Nitrotoluene											15 5155	250.50	
Nitroglycerin						16 00	-0 195	402	51.3400<		15 0150	501 00	45
PETN											25 0250	501 00	
3,5-Dinitroaniline											8.8088	1302 60	

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.5005**	**504.3000**	**101**	**500.5005**	**483.6000**	**97**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 4:40 PM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000027.D
Lab Smp Id: LV3LE1AW 0065052 A0
Inj Date : 11-MAR-2010 12:42
Operator : NS Inst ID: LC10.i
Smp Info : LV3LE1AW 0065052 A0B250463-16;0
Misc Info : ;;;9.99;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.990	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.523	425	49	0.115	0.67		
6.139	648	113	0.174	1.55		
6.296	3954	228	0.058	3.14		
8.766	70	44	0.632	0.60		
9.229	1104	92	0.083	1.26		
9.629	4526	326	0.072	4.49		
10.099	15178	1048	0.069	14.46		
10.566	2998	198	0.066	2.73		
11.593	1217	166	0.136	2.29		
11.863	7539	386	0.051	5.32		
14.773	3265	149	0.046	2.05		9 TETRYL
15.996	5082	254	0.050	3.50		
16.746	1195	62	0.052	0.85		
17.393	1547	74	0.048	1.02		
18.433	59920	3037	0.051	42.06	$	1 3,4-Dinitrotoluene
19.726	317	46	0.145	0.63		
20.276	8385	394	0.047	5.43		
21.899	136	31	0.228	0.42		
22.849	391	45	0.115	0.62		
24.969	224	52	0.232	0.71		
28.109	2313	92	0.040	1.26		
29.919	1233	51	0.041	0.70		
31.293	422	62	0.147	0.85		
31.563	5463	171	0.031	2.35		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
33.383	178	22	0.124	0.30	
33.596	1155	54	0.047	0.74	
	128885	7246		100.000	

Total unknown % height = 55.89

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000027.D

Date : 11-MAR-2010 12:42

Client ID:

Instrument: LC10.1

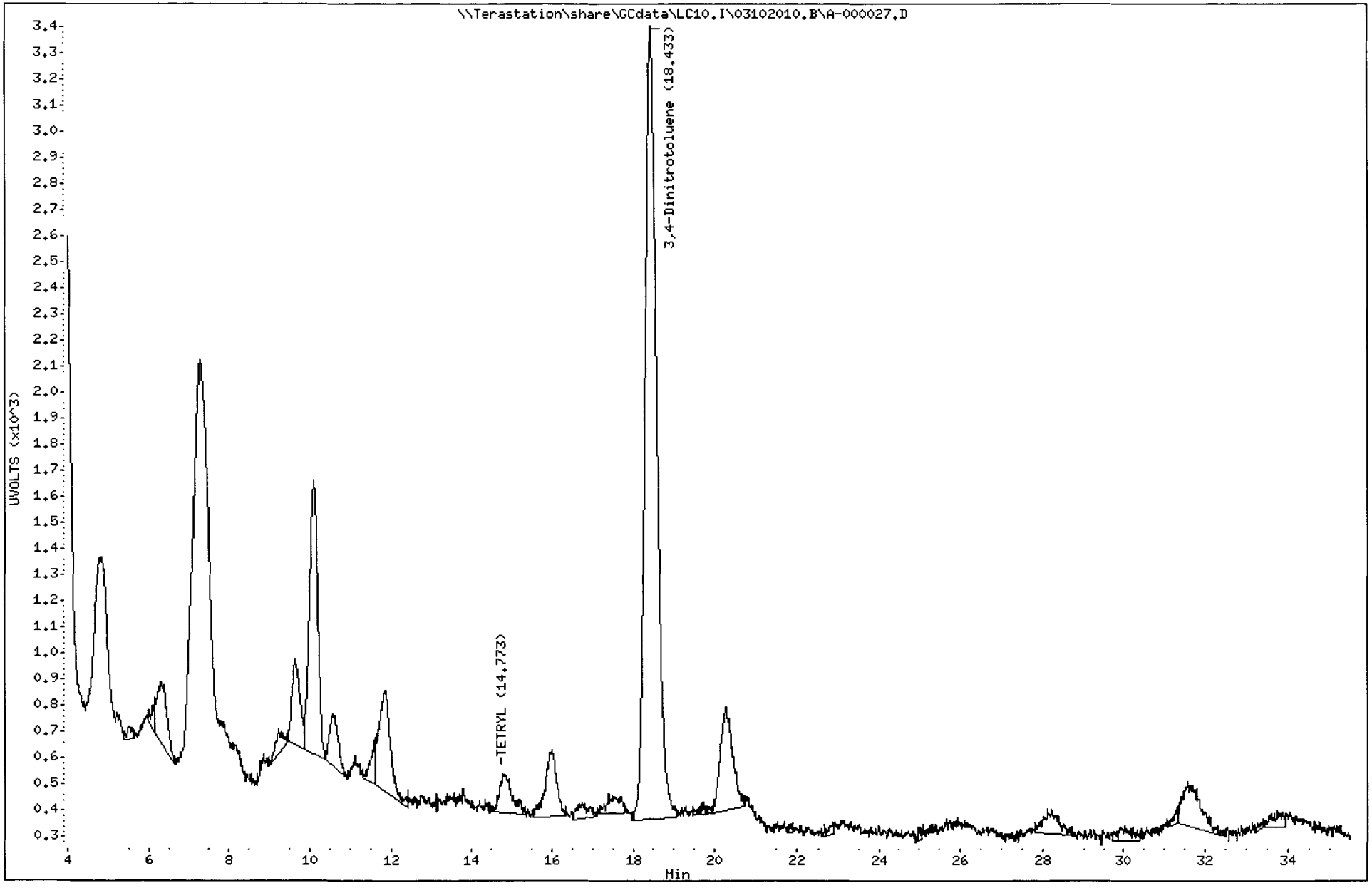
Sample Info: LV3LE1AW 0065052 A0B250463-16;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000027.D\A-000027
Lab Smp Id: LV3LE1AW 0065052 A0
Inj Date : 11-MAR-2010 12:42
Operator : NS Inst ID: LC10.i
Smp Info : LV3LE1AW 0065052 A0B250463-16;0
Misc Info : ;;;9.99;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

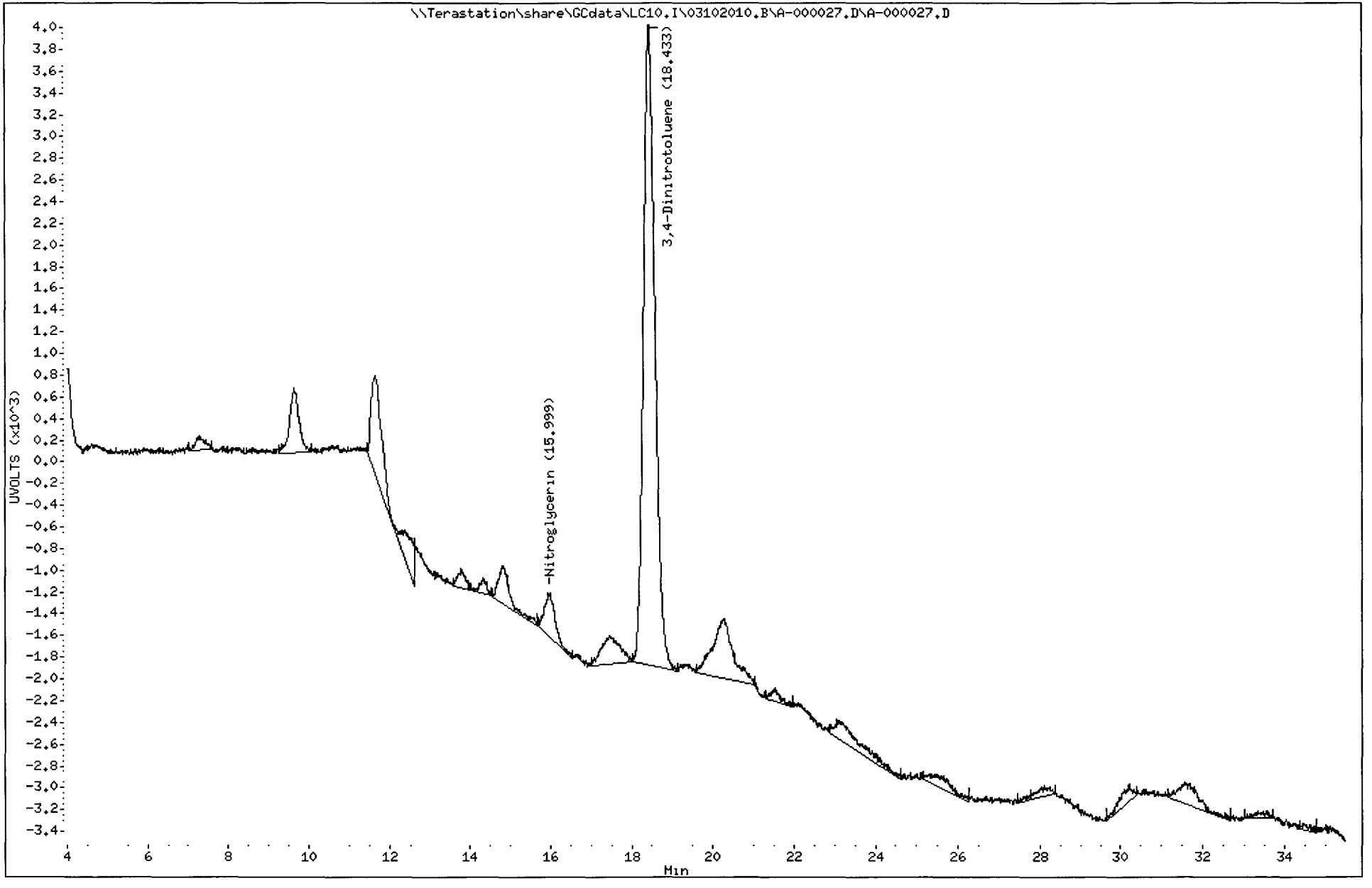
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.990	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
7.283	2200	135	0.061	1.31		
9.633	9775	604	0.062	5.87		
11.646	23428	924	0.039	8.99		
13.769	4249	179	0.042	1.74		
14.829	6744	347	0.051	3.37		
15.999	7184	402	0.056	3.91		11 Nitroglycerin
17.436	7970	257	0.032	2.50		
18.433	115140	5895	0.051	57.43	$	1 3,4-Dinitrotoluene
20.276	19155	548	0.029	5.33		
21.546	1991	127	0.064	1.23		
23.056	7855	162	0.021	1.57		
25.419	4095	98	0.024	0.95		
27.673	480	42	0.088	0.40		
28.033	1721	82	0.048	0.79		
30.076	3384	148	0.044	1.43		
31.563	7179	203	0.028	1.97		
33.339	1409	68	0.048	0.66		
34.466	967	57	0.059	0.55		
	224925	10278		100.000		

Total unknown % height = 38.66

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000027.D\A-000027.D
Date : 11-MAR-2010 12:42
Client ID:
Sample Info: LV3LE1AW 0065052 A0B250463-16;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000028.D

Chromatography Summary

Injection Date: 3/11/2010 13:31 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000028 D **Vial Num:** 33

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **LV3LJ1A7 0065052 A0B250463-18**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	9.98 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3LJ1A7 0065052 A0B250463-18,0

Misc. Info: ,,;9 98;80,2,SOLIDBQSM.sub, ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.43**	**-0.022**	**3088**	**513.3000<**		**18.44**	**-0.015**	**5825**	**478.3000**		**0.0000**	**0.00**	
HMX											12 1242	251 00	
RDX											12 0240	251 00	
Picric ACID											100 2004	1004.01	
1,3,5-Trinitrobenzene	10 56	0 031	325	16 1000< not conf							10 0200	251.00	45
1,3-Dinitrobenzene											4 2084	251.00	
TETRYL											10 0200	251 00	
Nitrobenzene											17 6353	251 00	
2,4,6-Trinitrotoluene											19 4389	251 00	
4-AM-2,6-DNT											10 0200	251 00	
2-AM-4,6-DNT											12 5251	301 20	
2,6-Dinitrotoluene											7 3146	251 00	
2,4-Dinitrotoluene											5 3106	251 00	
2-Nitrotoluene											13 0261	251 00	
4-Nitrotoluene											18 2365	502.01	
3-Nitrotoluene											15 5311	251 00	
Nitroglycerin											15 0301	502 01	
PETN											25 0501	502 01	
3,5-Dinitroaniline											8 8176	1305 22	

m 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**501.0020**	**513.3000**	**102**	**501.0020**	**478.3000**	**95**	**(81-127)**

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/11/2010 4:40 PM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000028.D
Lab Smp Id: LV3LJ1A7 0065052 A0
Inj Date : 11-MAR-2010 13:31
Operator : NS Inst ID: LC10.i
Smp Info : LV3LJ1A7 0065052 A0B250463-18;0
Misc Info : ;;;9.98;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

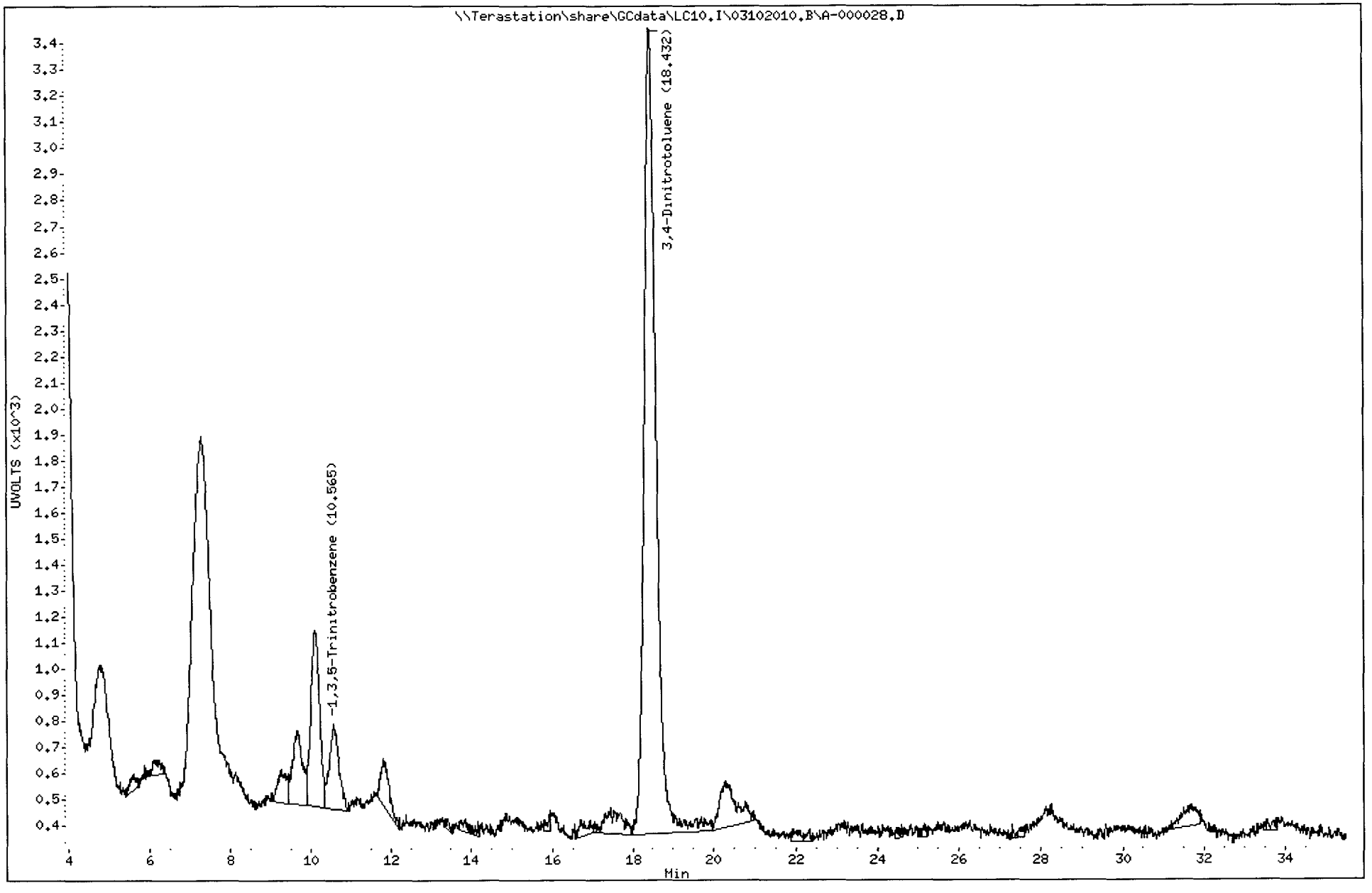
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.980	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.551	613	48	0.078	0.86		
6.132	795	58	0.073	1.04		
9.248	1994	125	0.063	2.24		
9.652	4862	282	0.058	5.07		
10.095	10505	674	0.064	12.13		
10.565	5553	325	0.059	5.84		6 1,3,5-Trinitrobenze
11.822	2605	179	0.069	3.22		
13.415	234	43	0.183	0.77		
13.855	774	52	0.067	0.93		
15.928	401	70	0.175	1.25		
16.688	892	66	0.074	1.18		
17.302	2802	76	0.027	1.36		
18.432	63547	3088	0.049	55.70	$	1 3,4-Dinitrotoluene
20.278	4990	177	0.035	3.18		
21.945	857	47	0.055	0.84		
24.505	263	42	0.160	0.75		
25.168	354	52	0.147	0.93		
27.525	383	37	0.097	0.66		
31.495	1988	75	0.038	1.34		
33.768	482	40	0.083	0.71		
	104895	5556		100.000		

Total unknown % height = 38.46

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000028.D
Date : 11-MAR-2010 13:31
Client ID:
Sample Info: LV3LJ1A7 0065052 A0B250463-18;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.1
Operator: NS
Column diameter: 4.60



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000028.D\A-000028
Lab Smp Id: LV3LJ1A7 0065052 A0
Inj Date : 11-MAR-2010 13:31
Operator : NS Inst ID: LC10.i
Smp Info : LV3LJ1A7 0065052 A0B250463-18;0
Misc Info : ;;;9.98;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 11:49 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307HPLC

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

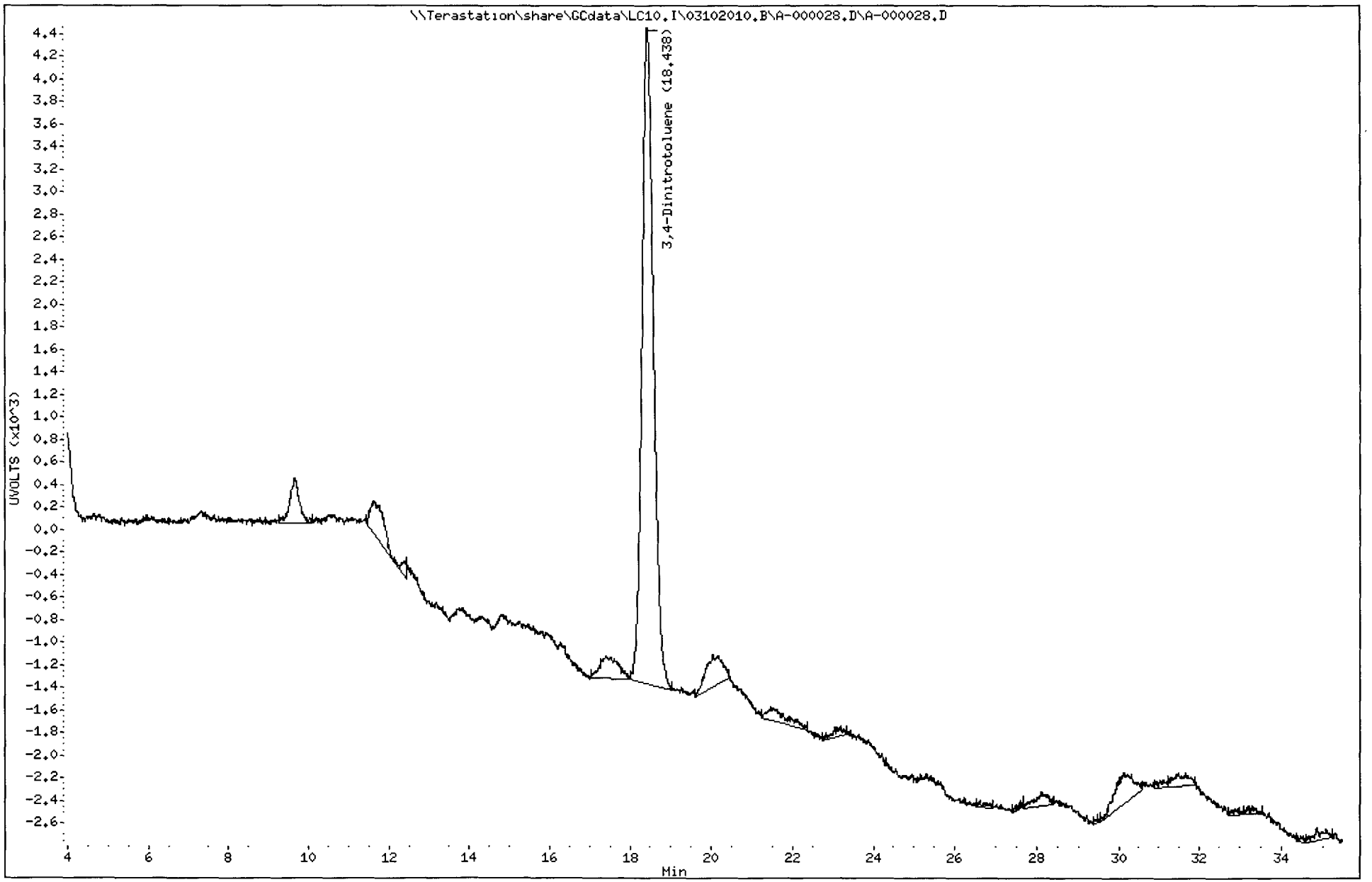
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.980	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.655	6935	403	0.058	4.90	
11.632	8559	291	0.034	3.54	
17.415	6184	191	0.031	2.32	
18.438	114231	5825	0.051	71.03	$ 1 3,4-Dinitrotoluene
20.045	7691	283	0.037	3.44	
21.462	4186	124	0.030	1.51	
23.115	1584	85	0.054	1.03	
26.618	732	61	0.083	0.74	
27.578	309	37	0.120	0.45	
28.125	2515	121	0.048	1.47	
29.475	191	34	0.178	0.41	
30.135	8571	271	0.032	3.30	
31.108	799	64	0.080	0.77	
31.495	3149	119	0.038	1.44	
32.901	498	57	0.114	0.69	
33.315	887	69	0.078	0.84	
34.482	454	58	0.128	0.70	
34.868	1841	117	0.064	1.42	
	169316	8210		100.000	

Total unknown % height = 28.97

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000028.D\A-000028.D
Date : 11-MAR-2010 13:31
Client ID:
Sample Info: LV3LJ1A7 0065052 A0B250463-18;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000029.D

Chromatography Summary

Injection Date: 3/11/2010 14 19 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000029 D **Vial Num:** 34

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LV3LM1DM 0065052 A0B250463-20**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.03 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3LM1DM 0065052 A0B250463-20,0

Misc. Info: ,;;10.03,80,2,SOLIDBQSM sub, ,0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**18.44**	**-0.014**	**3056**	**505.5000<**		**18.45**	**0.011**	**5781**	**472.3000**		**0.0000**	**0.00**	
HMX											12 0638	248 51	
RDX											11 9641	248 51	
Picric ACID											99 7009	994 03	
1,3,5-Trinitrobenzene											9 9701	248 51	
1,3-Dinitrobenzene											4 1874	248 51	
TETRYL	14 79	-0 144	121	10 9000<							9 9701	248.51	45
Nitrobenzene											17 5474	248.51	
2,4,6-Trinitrotoluene											19 3420	248 51	
4-AM-2,6-DNT											9 9701	248 51	
2-AM-4,6-DNT											12 4626	298 21	
2,6-Dinitrotoluene	20 73	0 029	138	19 4000<							7 2782	248 51	45
2,4-Dinitrotoluene											5 2841	248 51	
2-Nitrotoluene											12 9611	248 51	
4-Nitrotoluene											18 1456	497 01	
3-Nitrotoluene											15 4536	248.51	
Nitroglycerin											14 9551	497 01	
PETN											24 9252	497 01	
3,5-Dinitroaniline											8 7737	1292 23	

not cont

not cont

m 3/18/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**498.5045**	**505.5000**	**101**	**498.5045**	**472.3000**	**95**	**(81-127)**

Notes

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/18/2010 11:33 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000029.d
Lab Smp Id: LV3LM1DM 0065052 A0
Inj Date : 11-MAR-2010 14:19
Operator : NS Inst ID: LC10.i
Smp Info : LV3LM1DM 0065052 A0B250463-20;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 18-Mar-2010 11:32 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 34
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

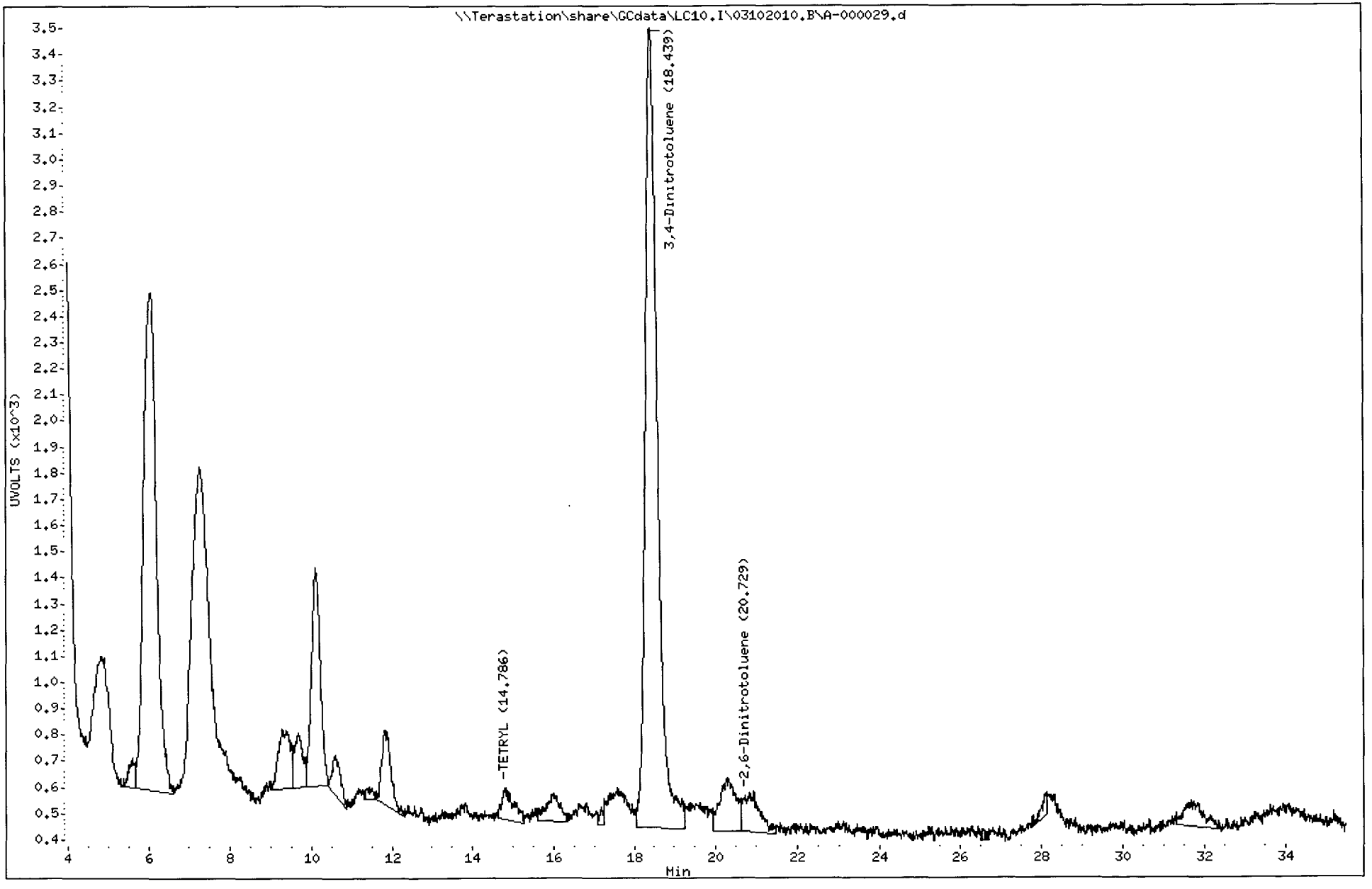
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.606	1163	115	0.099	1.50		
6.069	42620	1907	0.045	24.91		
9.276	4584	226	0.049	2.95		
9.666	2870	208	0.072	2.71		
10.106	12908	831	0.064	10.85		
10.606	2173	151	0.069	1.97		
11.386	521	45	0.086	0.58		
11.836	4512	285	0.063	3.72		
14.786	2519	121	0.048	1.58	9	TETRYL
15.996	2494	109	0.044	1.42		
17.243	407	68	0.167	0.88		
18.439	63380	3056	0.048	40.00	$ 1	3,4-Dinitrotoluene
20.243	5811	178	0.031	2.32		
20.729	4028	138	0.034	1.80	15	2,6-Dinitrotoluene
26.549	283	45	0.159	0.58		
28.093	794	84	0.106	1.09		
31.586	3010	88	0.029	1.14		
	154076	7655		100.000		

Total unknown % height = 56.62

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000029.d
Date : 11-MAR-2010 14:19
Client ID:
Sample Info: LV3LM1DM 0065052 A0B250463-20;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000029.d\A-000029
Lab Smp Id: LV3LM1DM 0065052 A0
Inj Date : 11-MAR-2010 14:19
Operator : NS Inst ID: LC10.i
Smp Info : LV3LM1DM 0065052 A0B250463-20;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 13-Mar-2010 03:25 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 34
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

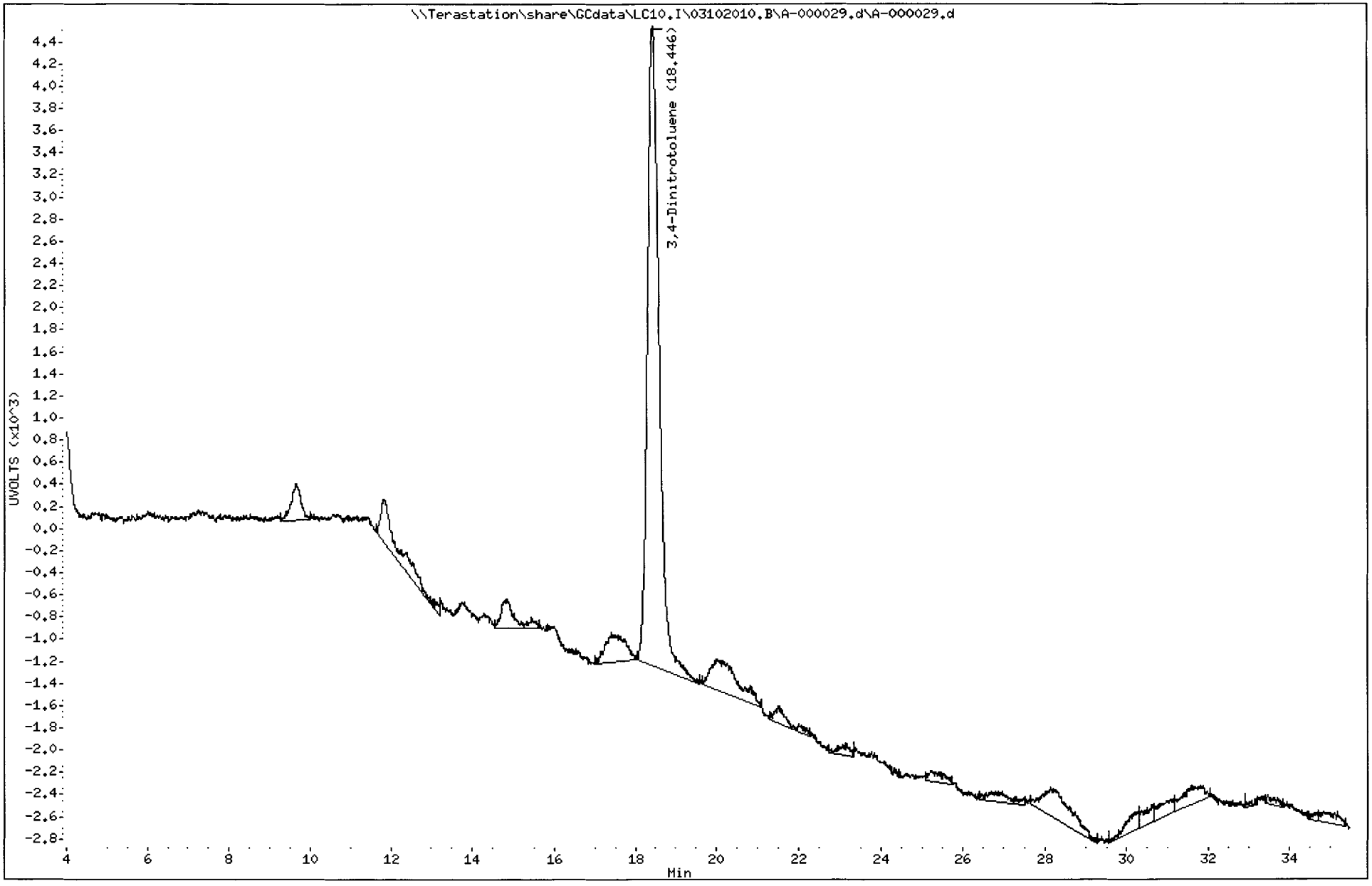
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.656	5498	330	0.060	3.68	
11.846	12139	398	0.033	4.43	
14.846	6133	262	0.043	2.92	
17.419	8575	266	0.031	2.96	
18.446	116070	5781	0.050	64.57	$ 1 3,4-Dinitrotoluene
20.036	13166	283	0.021	3.15	
21.519	3547	150	0.042	1.67	
23.163	1873	109	0.058	1.21	
25.189	2636	96	0.036	1.07	
26.709	3402	81	0.024	0.90	
28.149	13052	259	0.020	2.88	
29.723	315	42	0.133	0.46	
30.206	3258	162	0.050	1.80	
30.639	2772	149	0.054	1.66	
31.046	3495	129	0.037	1.43	
31.583	5630	176	0.031	1.96	
33.149	446	53	0.119	0.59	
33.463	1054	79	0.075	0.88	
34.616	611	68	0.111	0.75	
34.843	2850	93	0.033	1.03	
	206520	8966		100.000	

Total unknown % height = 35.43

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000029.d\A-000029.d
Date : 11-MAR-2010 14:19
Client ID:
Sample Info: LV3LM1DM 0065052 A0B250463-20;0
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000030.D

Chromatography Summary

Injection Date: 3/11/2010 15 08 **Operator:** NS

DataFile: LC10 I\03102010.B\A-000030 D **Vial Num:** 35

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LV3LM1DN 0065052 A0B250463-20S**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23.38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.05 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:** SOLIDBQSM sp

Samp. Info: LV3LM1DN 0065052 A0B250463-20S.3

Misc. Info: MS:,:10 05,80,2.SOLIDBQSM sub,SOLIDBQSM spk.1,1

Compound Name	Synergi Hydro-RP C18(250nm-265nm) RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Synergi Hydro-RP C18(358nm-205nm) RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	18 44	2769	457 1000<	497 512438	92%	Acceptable		18 44	5745	468 4000	497 512438	94%	Acceptable		(81-127)	
HMX	5 46	6610	395 0000<	497 512438	79%	Acceptable					497 512438	0%	Fails		(75-125)	45
RDX	7 99	4262	376 0000<	497 512438	76%	Acceptable					497 512438	0%	Fails		(70-135)	45
Picric ACID				4975 124378	0%	Fails					4975 124378	0%	Fails		(70-130)	
1,3,5-Trinitrobenzene	10 53	9107	450 6000<	497 512438	91%	Acceptable					497 512438	0%	Fails		(75-125)	45
1,3-Dinitrobenzene	13 51	9073	460 0000<	497 512438	92%	Acceptable					497 512438	0%	Fails		(80-125)	45
TETRYL	14 92	4116	373 2000<	497 512438	75%	Acceptable					497 512438	0%	Fails		(10-150)	45
Nitrobenzene	15 33	4273	459 4000<	497 512438	92%	Acceptable					497 512438	0%	Fails		(75-125)	45
2.4.6-Trinitrotoluene	17 16	4905	408 6000<	497 512438	82%	Acceptable					497 512438	0%	Fails		(55-140)	45
4-AM-2,6-DNT	**17.90**	**3308**	**369.4000<**	497 512438	74%	Fails					497 512438	0%	Fails		(80-125)	45
2-AM-4,6-DNT	19 00	4182	410 2000<	497 512438	82%	Acceptable					497 512438	0%	Fails		(80-125)	45
2,6-Dinitrotoluene	20 69	3173	446 0000<	497 512438	90%	Acceptable					497 512438	0%	Fails		(80-120)	45
2,4-Dinitrotoluene	21 46	5091	441 1000<	497 512438	89%	Acceptable					497 512438	0%	Fails		(80-125)	45
2-Nitrotoluene	24 97	2378	464 8000<	497 512438	93%	Acceptable					497 512438	0%	Fails		(80-125)	45
4-Nitrotoluene	26 94	2847	465 2000<	497 512438	94%	Acceptable					497 512438	0%	Fails		(75-125)	45
3-Nitrotoluene	29 02	2781	461.1000<	497 512438	93%	Acceptable					497 512438	0%	Fails		(75-120)	45
Nitroglycerin				995 024876	0%	Fails		16.18	7615	966 8000<	995 024876	97%	Acceptable		(74-112)	45
PETN				995 024876	0%	Fails		32 36	3495	880 0000<	995 024876	88%	Acceptable		(75-117)	45
3.5-Dinitroaniline	14 39	5025	388 4000<	497 512438	78%	Acceptable					497 512438	0%	Fails		(40-140)	45

mp 3/18/10

Surrogates:	Spiked	Recovered	%Rec	Spiked	Recovered	%Rec	Limits
3,4-Dinitrotoluene	497.5124	457.1000	92	497.5124	468.4000	94	(81-127)

Notes

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/18/2010 12:26 PM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000030.d
Lab Smp Id: LV3LM1DN 0065052 A0
Inj Date : 11-MAR-2010 15:08
Operator : NS Inst ID: LC10.i
Smp Info : LV3LM1DN 0065052 A0B250463-20S;3
Misc Info : MS;;;10.05;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 18-Mar-2010 12:09 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 35 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

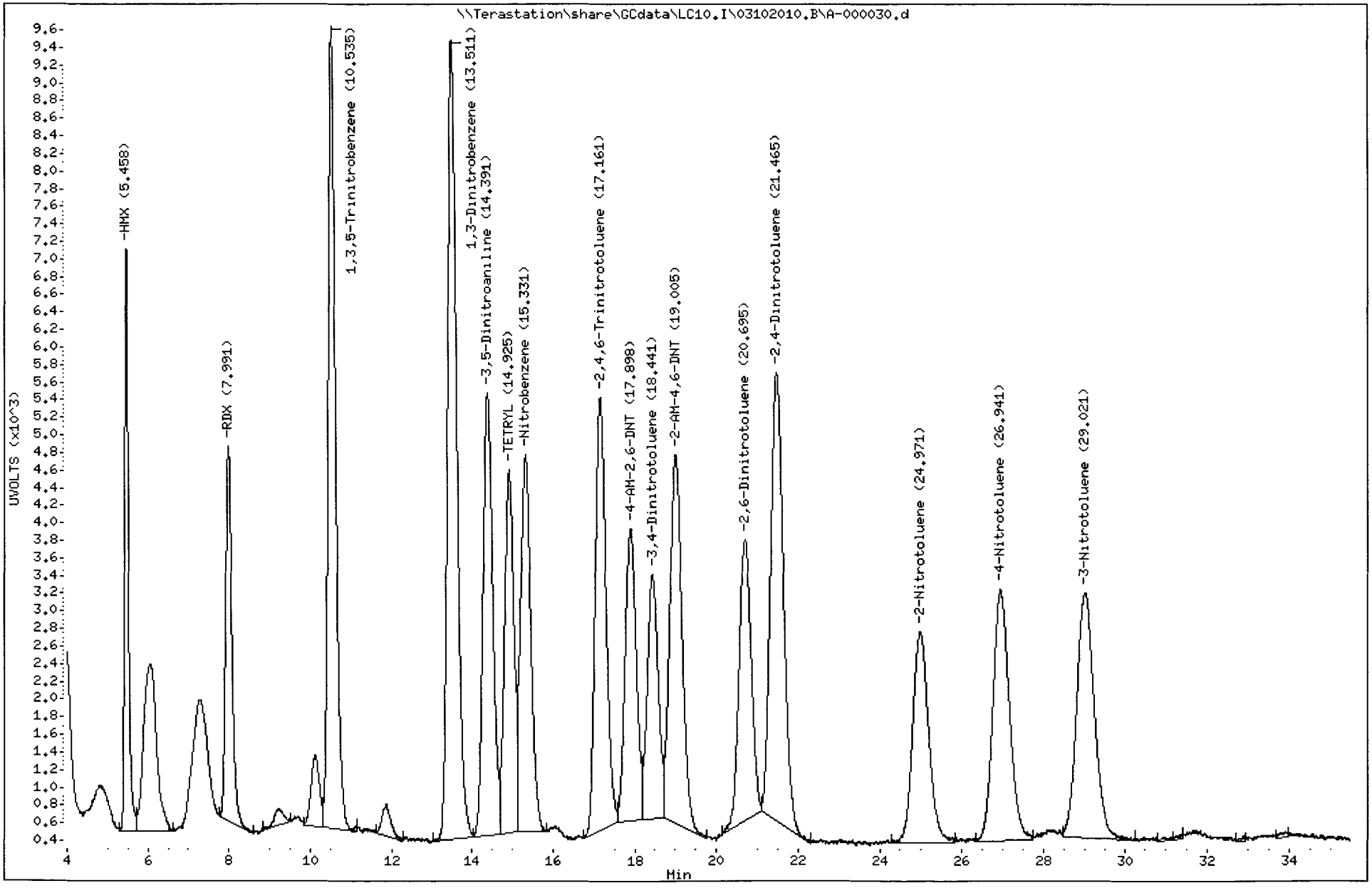
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.458	42835	6610	0.154	8.54		2 HMX
6.071	42833	1888	0.044	2.44		
7.991	44926	4262	0.095	5.50		3 RDX
9.221	3125	191	0.061	0.24		
10.128	11415	810	0.071	1.04		
10.535	115092	9107	0.079	11.89		6 1,3,5-Trinitrobenze
11.865	5455	366	0.067	0.47		
13.511	143690	9073	0.063	11.72		7 1,3-Dinitrobenzene
14.391	83067	5025	0.060	6.49		8 3,5-Dinitroaniline
14.925	66061	4116	0.062	5.31		9 TETRYL
15.331	75264	4273	0.057	5.52		10 Nitrobenzene
17.161	88216	4905	0.056	6.33		12 2,4,6-Trinitrotolue
17.898	63168	3308	0.052	4.27		13 4-AM-2,6-DNT
18.441	50672	2769	0.055	3.57	$	1 3,4-Dinitrotoluene
19.005	87265	4182	0.048	5.40		14 2-AM-4,6-DNT
20.695	66462	3173	0.048	4.10		15 2,6-Dinitrotoluene
21.465	111846	5091	0.046	6.58		16 2,4-Dinitrotoluene
24.971	63331	2378	0.038	3.07		17 2-Nitrotoluene
26.941	80330	2847	0.035	3.67		18 4-Nitrotoluene
29.021	84748	2781	0.033	3.59		19 3-Nitrotoluene
30.928	474	40	0.084	0.05		
31.371	491	58	0.118	0.07		
32.885	323	56	0.173	0.07		
33.794	750	60	0.080	0.07		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
	1331836	77369		100.000	

Total unknown % height = 4.450

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000030.d
Date : 11-MAR-2010 15:08
Client ID:
Sample Info: LV3LM1DN 0065052 A0B250463-20S;3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000030.d\A-000030
Lab Smp Id: LV3LM1DN 0065052 A0
Inj Date : 11-MAR-2010 15:08
Operator : NS Inst ID: LC10.i
Smp Info : LV3LM1DN 0065052 A0B250463-20S;3
Misc Info : MS;;;10.05;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 13-Mar-2010 03:25 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 35 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

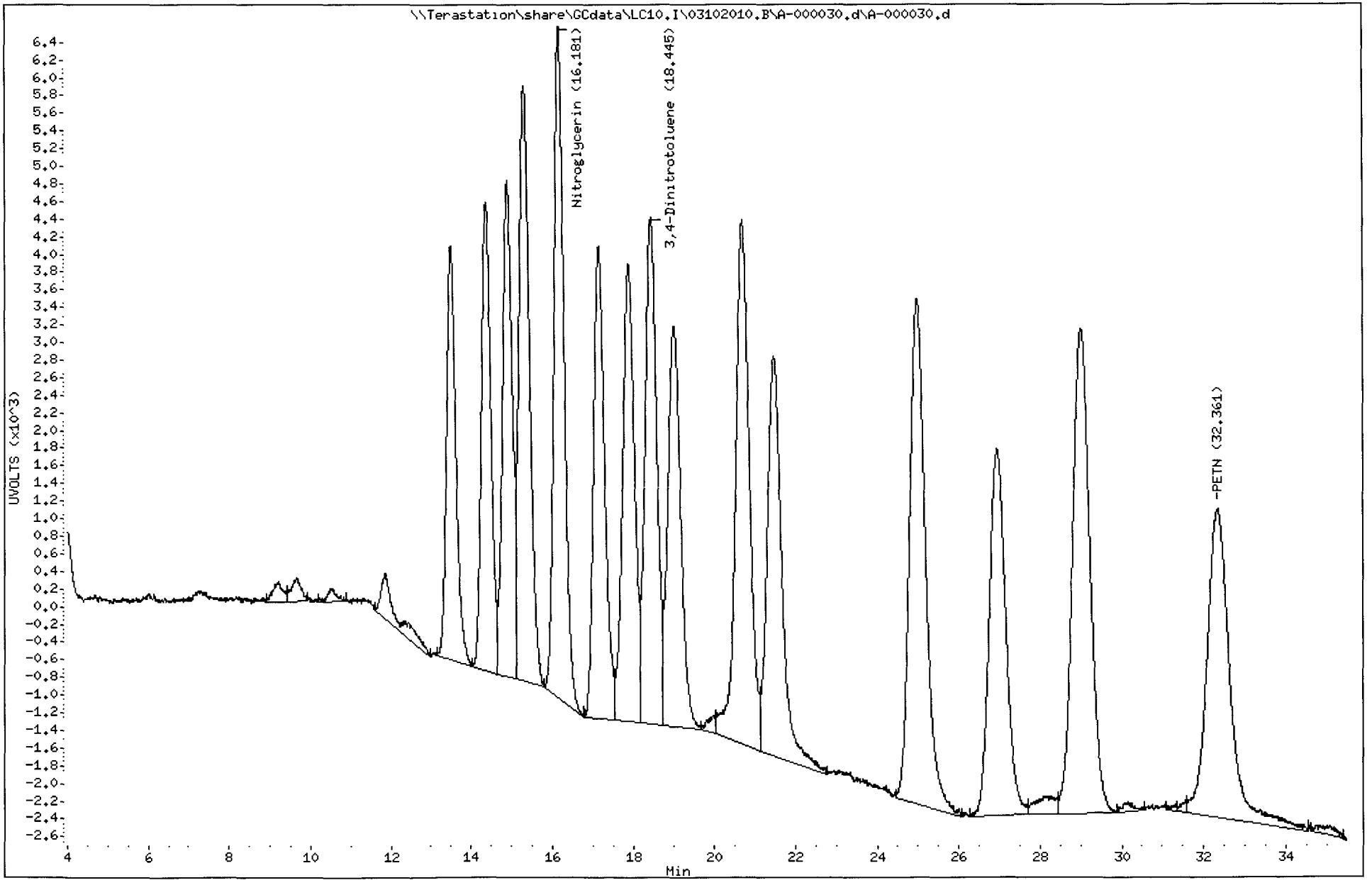
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.218	3970	223	0.056	0.27		
9.671	4344	264	0.061	0.32		
10.515	2749	161	0.059	0.19		
11.848	13676	508	0.037	0.61		
13.508	75825	4703	0.062	5.72		
14.388	87809	5327	0.061	6.48		
14.925	90994	5632	0.062	6.85		
15.331	120964	6759	0.056	8.22		
16.181	132048	7615	0.058	9.36		11 Nitroglycerin
17.165	101019	5353	0.053	6.51		
17.891	105277	5198	0.049	6.32		
18.445	112502	5745	0.051	6.99	$	1 3,4-Dinitrotoluene
19.008	98618	4538	0.046	5.52		
19.985	2444	209	0.086	0.25		
20.688	141952	5942	0.042	7.22		
21.465	113519	4523	0.040	5.50		
24.975	155041	5724	0.037	6.96		
26.941	118079	4155	0.035	5.05		
28.175	7086	206	0.029	0.25		
29.008	164533	5492	0.033	6.68		
30.141	2179	115	0.053	0.13		
31.331	644	79	0.123	0.09		
31.565	1234	137	0.111	0.16		
32.361	134186	3495	0.026	4.25		20 PETN

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
34.801	2778	84	0.030	0.10	
	1793473	82187		100.000	

Total unknown % height = 79.40

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000030.d\A-000030.d
Date : 11-MAR-2010 15:08
Client ID:
Sample Info: LV3LM1DN 0065052 A0B250463-20S;3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

A-000031.D

Chromatography Summary

Injection Date: 3/11/2010 15 56 **Operator:** NS

DataFile: LC10 I\03102010 B\A-000031 D **Vial Num:** 36

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **LV3LM1DP 0065052 A0B250463-20D**

Method File: LC10 I\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17 59 **End Cal Date:** 3/1/2010 23 38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.05 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:** SOLIDBQSM.sp

Samp. Info: LV3LM1DP 0065052 A0B250463-20D,3

Misc. Info: MSD,,,10 05,80,2,SOLIDBQSM sub,SOLIDBQSM spk,1,1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18 44	3055	504 3000<	497 512438	101%	Acceptable		18 44	5824	474 9000	497 512438	95%	Acceptable		(81-127)	
HMX	5 46	7105	424 5000<	497 512438	85%	Acceptable					497 512438	0%	Fails		(75-125)	45
RDX	7 99	4544	400 9000<	497 512438	81%	Acceptable					497 512438	0%	Fails		(70-135)	45
Picric ACID				4975 124378	0%	Fails					4975 124378	0%	Fails		(70-130)	
1,3,5-Trinitrobenzene	10.53	9485	469 3000<	497 512438	94%	Acceptable					497 512438	0%	Fails		(75-125)	45
1,3-Dinitrobenzene	13 50	9334	473 2000<	497 512438	95%	Acceptable					497 512438	0%	Fails		(80-125)	45
TETRYL	14 91	4357	395 0000<	497 512438	79%	Acceptable					497 512438	0%	Fails		(10-150)	45
Nitrobenzene	15 32	4311	463 5000<	497 512438	93%	Acceptable					497 512438	0%	Fails		(75-125)	45
2,4,6-Trinitrotoluene	17.16	5196	432.9000<	497 512438	87%	Acceptable					497 512438	0%	Fails		(55-140)	45
4-AM-2,6-DNT	17 89	3663	409 0000<	497 512438	82%	Acceptable					497 512438	0%	Fails		(80-125)	45
2-AM-4,6-DNT	19 01	4533	444 6000<	497 512438	89%	Acceptable					497 512438	0%	Fails		(80-125)	45
2,6-Dinitrotoluene	20 70	3502	492 2000<	497 512438	99%	Acceptable					497 512438	0%	Fails		(80-120)	45
2,4-Dinitrotoluene	21 48	5453	472 4000<	497 512438	95%	Acceptable					497 512438	0%	Fails		(80-125)	45
2-Nitrotoluene	24 98	2366	462 4000<	497 512438	93%	Acceptable					497 512438	0%	Fails		(80-125)	45
4-Nitrotoluene	26 93	2842	464 4000<	497 512438	93%	Acceptable					497 512438	0%	Fails		(75-125)	45
3-Nitrotoluene	29 01	2796	463 6000<	497 512438	93%	Acceptable					497 512438	0%	Fails		(75-120)	45
Nitroglycerin				995 024876	0%	Fails		16 18	7651	971 4000<	995 024876	98%	Acceptable		(74-112)	45
PETN				995 024876	0%	Fails		32 33	3650	919 1000<	995 024876	92%	Acceptable		(75-117)	45
3,5-Dinitroaniline	14 39	5333	412.2000<	497 512438	83%	Acceptable					497 512438	0%	Fails		(40-140)	45

Surrogates:	Spiked	Recovered	%Rec	Spiked	Recovered	%Rec	Limits
3,4-Dinitrotoluene	**497.5124**	**504.3000**	**101**	**497.5124**	**474.9000**	**95**	**(81-127)**

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/18/2010 12:27 PM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000031.d
Lab Smp Id: LV3LM1DP 0065052 A0
Inj Date : 11-MAR-2010 15:56
Operator : NS Inst ID: LC10.i
Smp Info : LV3LM1DP 0065052 A0B250463-20D;3
Misc Info : MSD;;;10.05;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 18-Mar-2010 12:09 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 36 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

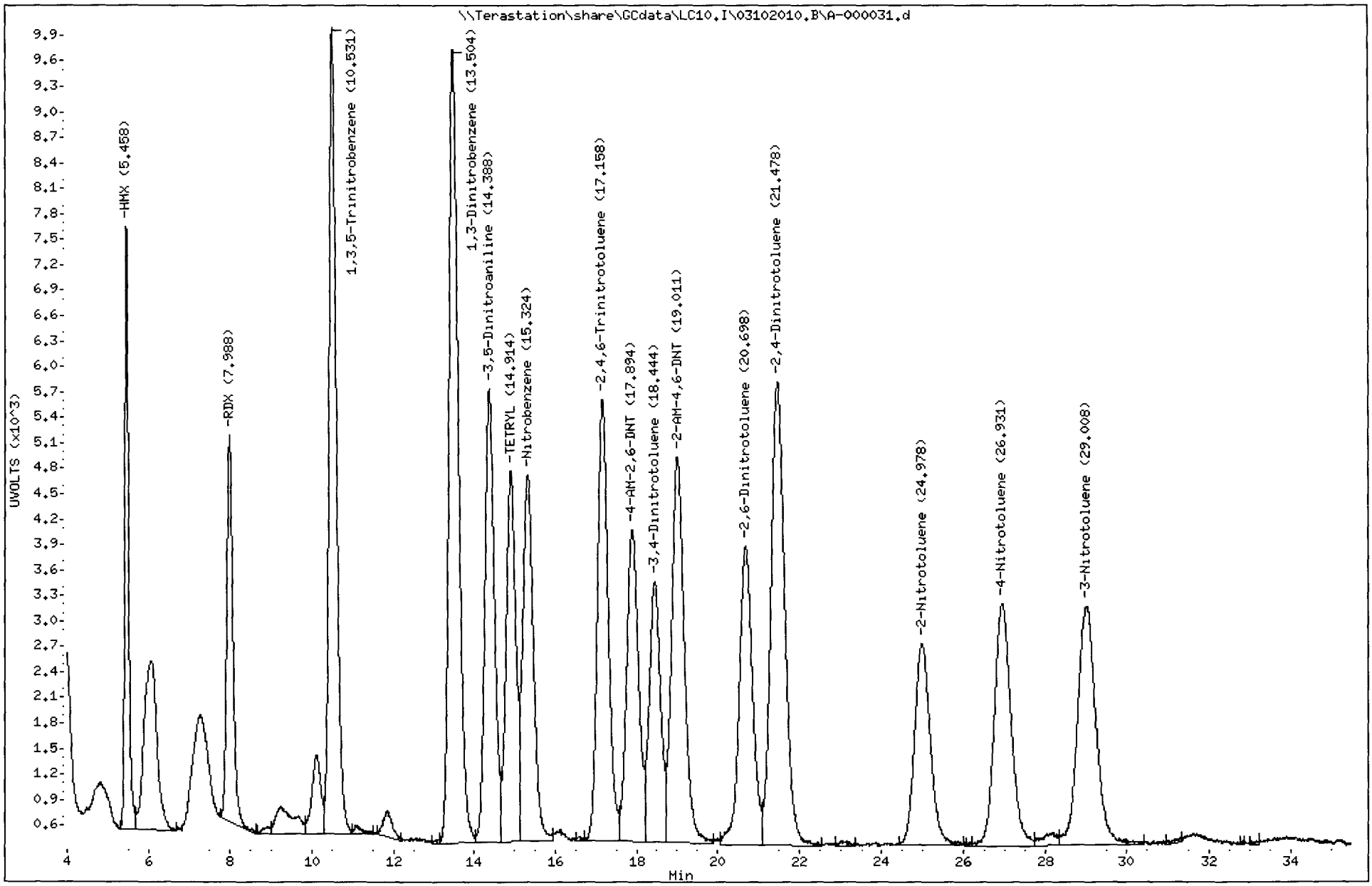
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.458	44761	7105	0.159	8.65		2 HMX
6.054	45050	1985	0.044	2.41		
7.988	47432	4544	0.096	5.53		3 RDX
8.861	987	65	0.066	0.07		
9.234	10250	322	0.031	0.39		
10.118	14157	915	0.065	1.11		
10.531	119747	9485	0.079	11.72		6 1,3,5-Trinitrobenze
11.091	1195	95	0.079	0.11		
11.841	4717	314	0.067	0.38		
13.104	321	38	0.119	0.04		
13.504	147852	9334	0.063	11.37		7 1,3-Dinitrobenzene
14.388	88902	5333	0.060	6.49		8 3,5-Dinitroaniline
14.914	71270	4357	0.061	5.30		9 TETRYL
15.324	77819	4311	0.055	5.25		10 Nitrobenzene
16.578	369	53	0.144	0.06		
17.158	96137	5196	0.054	6.33		12 2,4,6-Trinitrotolue
17.894	73628	3663	0.050	4.46		13 4-AM-2,6-DNT
18.444	58385	3055	0.052	3.72	$	1 3,4-Dinitrotoluene
19.011	99047	4533	0.046	5.52		14 2-AM-4,6-DNT
20.698	79849	3502	0.044	4.26		15 2,6-Dinitrotoluene
21.478	126818	5453	0.043	6.64		16 2,4-Dinitrotoluene
23.028	949	56	0.059	0.06		
24.978	62987	2366	0.038	2.88		17 2-Nitrotoluene
26.154	234	46	0.197	0.05		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
26.931	82133	2842	0.035	3.46	18 4-Nitrotoluene
28.198	3795	152	0.040	0.18	
29.008	87852	2796	0.032	3.40	19 3-Nitrotoluene
31.294	696	50	0.072	0.06	
32.851	161	48	0.297	0.05	
33.168	301	47	0.156	0.05	
	1447801	82061		100.000	

Total unknown % height = 5.020

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000031.d
Date : 11-MAR-2010 15:56
Client ID:
Sample Info: LV3LM1DP 0065052 A0B250463-20D:3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000031.d\A-000031
Lab Smp Id: LV3LM1DP 0065052 A0
Inj Date : 11-MAR-2010 15:56
Operator : NS Inst ID: LC10.i
Smp Info : LV3LM1DP 0065052 A0B250463-20D;3
Misc Info : MSD;;;10.05;80;2;SOLIDBQSM.sub;SOLIDBQSM.spk;1;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 13-Mar-2010 03:25 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 36 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

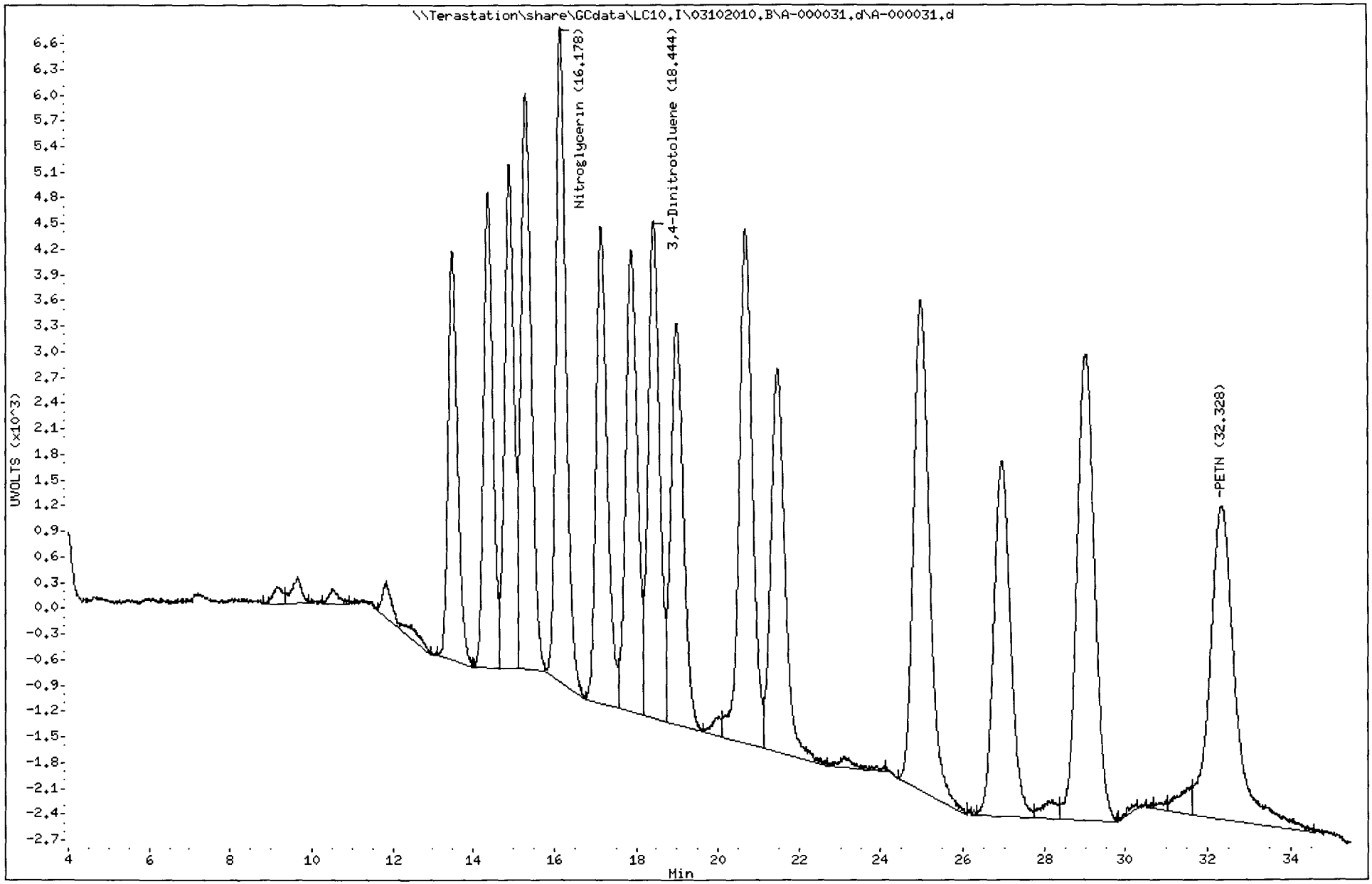
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.171	3469	204	0.059	0.24		
9.664	4865	301	0.062	0.35		
10.524	3111	184	0.059	0.21		
11.844	10763	424	0.039	0.50		
13.498	75761	4783	0.063	5.70		
14.384	90525	5565	0.061	6.63		
14.914	95983	5885	0.061	7.01		
15.331	119242	6741	0.057	8.03		
16.178	132523	7651	0.058	9.25		11 Nitroglycerin
17.158	104610	5576	0.053	6.64		
17.894	108247	5403	0.050	6.43		
18.444	112766	5824	0.052	6.94	$	1 3,4-Dinitrotoluene
19.008	100056	4691	0.047	5.59		
20.024	3497	233	0.067	0.27		
20.698	138845	6020	0.043	7.17		
21.478	107519	4480	0.042	5.33		
23.101	4011	129	0.032	0.15		
24.974	155145	5732	0.037	6.83		
26.261	216	57	0.264	0.06		
26.954	117443	4144	0.035	4.93		
28.188	5700	218	0.038	0.25		
29.024	163028	5438	0.033	6.48		
30.264	1279	59	0.046	0.07		
30.644	346	67	0.194	0.07		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
31.004	1483	124	0.084	0.14	
31.591	7161	329	0.046	0.39	
32.328	153175	3650	0.024	4.34	20 PETN
	1820768	83912		100.000	

Total unknown % height = 79.47

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000031.d\A-000031.d
Date : 11-MAR-2010 15:56
Client ID:
Sample Info: LV3LM1DP 0065052 A0B250463-20D:3
Volume Injected (uL): 500.0
Column phase: SYNERGI HYDRORP C18

Instrument: LC10.i
Operator: NS
Column diameter: 4.60



Chromatography Summary

Method 8330 Target Analyte Results

Injection Date: 3/11/2010 19:59 Operator: NS

DataFile: LC10 B\03102010 B\A-000036.D Vial Num: 4

Instrument ID: LC10

Sample: **STD_05 10GCSV0072 8330 100ng/mL**

Method File: LC10 B\03102010 B\8330AB M

Start Cal Date: 3/1/2010 17:59 End Cal Date: 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL sub SpikeList:

Samp. Info: STD_05 10GCSV0072 8330 100ng/mL,2

Misc. Info: .5, , .3,CAL sub, .0,1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	18.46	5116	106.1000<	100	6%	Acceptable		18.46	9793	100.3000	100	0%	Acceptable		(±15)	
HMX	5.46	13221	99.2400<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
RDX	7.99	9254	102.6000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID	9.24	18683	213.1000	200	7%	Acceptable		9.24	27578	214.3000<	200	7%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.53	16190	100.6000<	100	1%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.51	15696	99.9600<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	14.92	8301	94.5400<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	15.33	7343	99.1800<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.17	9179	96.0600<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	17.91	7240	101.6000<	100	2%	Acceptable					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.02	8105	99.8600<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	20.71	5670	100.1000<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.49	9161	99.7100<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	25.00	3954	97.0800<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
4-Nitrotoluene	26.98	4768	97.8800<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
3-Nitrotoluene	29.06	4657	97.0000<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				**100**	**-100%**	**Fails**		16.19	6282	100.2000<	100	0%	Acceptable		(±15)	45
PETN				**100**	**-100%**	**Fails**		32.37	3163	100.0000<	100	0%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.39	10297	99.9900<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				**100**	**-100%**	**Fails**					100	-100%	Fails		(±15)	

M 3/12/10

Notes. M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/12/2010 11:54 AM

Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000036.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 19:59
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.m
Meth Date : 11-Mar-2010 20:42 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.459	84663	13221	0.156	8.42		2 HMX
7.989	95259	9254	0.097	5.89		3 RDX
9.236	249956	18683	0.075	12.01		5 Picric ACID
10.532	206695	16190	0.078	10.31		6 1,3,5-Trinitrobenze
11.722	757	60	0.079	0.03		
13.509	247847	15696	0.063	9.99		7 1,3-Dinitrobenzene
14.389	172254	10297	0.060	6.55		8 3,5-Dinitroaniline
14.922	136077	8301	0.061	5.28		9 TETRYL
15.329	132290	7343	0.056	4.67		10 Nitrobenzene
17.169	170338	9179	0.054	5.84		12 2,4,6-Trinitrotolue
17.909	144692	7240	0.050	4.61		13 4-AM-2,6-DNT
18.456	99543	5116	0.051	3.25	$	1 3,4-Dinitrotoluene
19.022	176452	8105	0.046	5.16		14 2-AM-4,6-DNT
20.706	124383	5670	0.046	3.61		15 2,6-Dinitrotoluene
21.492	212533	9161	0.043	5.83		16 2,4-Dinitrotoluene
25.002	104768	3954	0.038	2.51		17 2-Nitrotoluene
26.979	136310	4768	0.035	3.03		18 4-Nitrotoluene
29.059	143047	4657	0.033	2.96		19 3-Nitrotoluene
31.012	575	48	0.083	0.03		
33.599	273	43	0.158	0.02		
	2638715	156986		100.000		

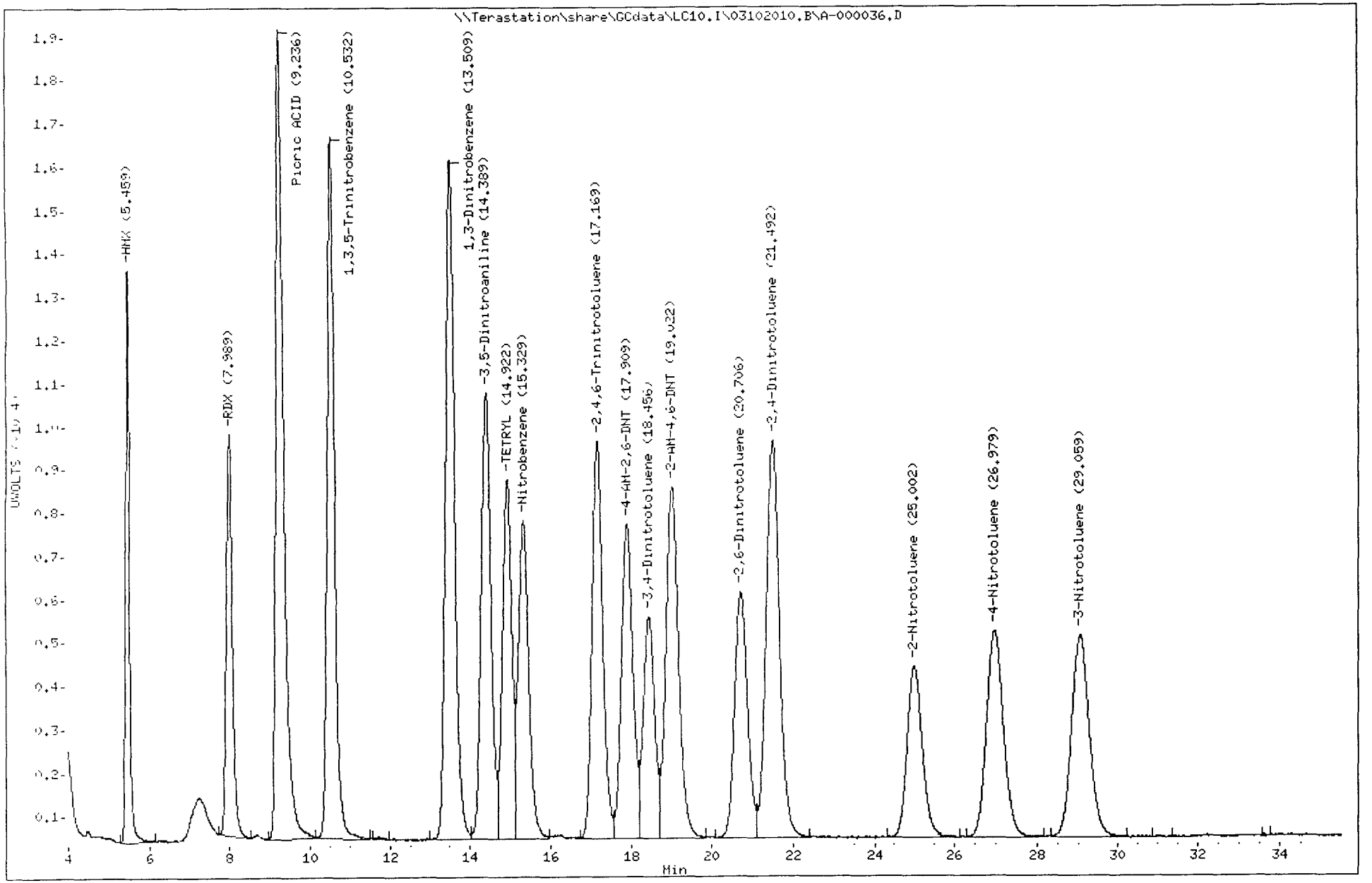
Total unknown % height = 0.08000

Data File: \\Terastation\share\GCdata\LC10.I\03102010.B\A-000036.D
Date : 11-MAR-2010 19:59
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Instrument: LC10.i

Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



Test America West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03102010.B\A-000036.D\A-000036
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 19:59
Operator : NS Inst ID: LC10.i
Smp Info : STD_05 10GCSV0072 8330 100ng/mL;2
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\Terastation\share\GCdata\LC10.I\03102010.B\8330AB.M\83302.m
Meth Date : 11-Mar-2010 20:43 tap Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307HPLC

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
9.236	368672	27578	0.075	17.24		5	Picric ACID
10.542	2775	245	0.088	0.15			
13.506	125610	8082	0.064	5.02			
14.389	178223	10765	0.060	6.68			
14.922	180182	11104	0.062	6.89			
15.332	203089	11371	0.056	7.06			
16.186	106160	6282	0.059	3.90		11	Nitroglycerin
17.169	181853	9821	0.054	6.10			
17.909	210281	10623	0.051	6.60			
18.456	194059	9793	0.050	6.08	$	1	3,4-Dinitrotoluene
19.022	183936	8479	0.046	5.26			
20.709	216748	9784	0.045	6.07			
21.492	178856	7403	0.041	4.59			
24.999	249638	9483	0.038	5.89			
26.979	197710	6970	0.035	4.33			
29.046	285316	9232	0.032	5.73			
30.809	9446	318	0.034	0.19			
31.146	12893	393	0.030	0.24			
32.369	135500	3163	0.023	1.96		20	PETN
34.646	390	46	0.118	0.02			
	3221337	160935		100.000			

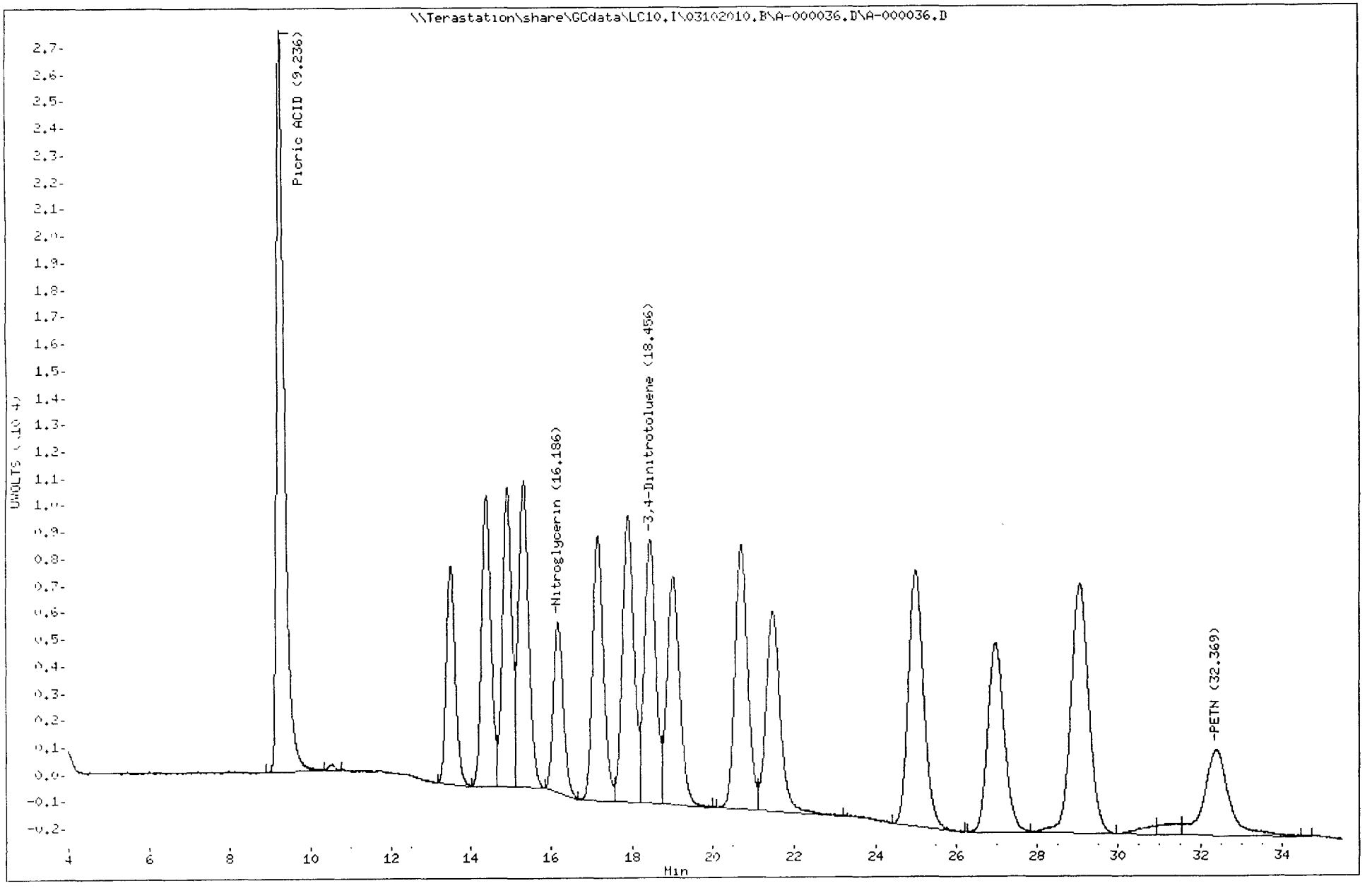
Total unknown % height = 70.82

Data File: \\Terastation\share\GCdata\LC10,I\03102010,B\A-000036.D\A-000036.D
Date : 11-MAR-2010 19:59
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100ng/mL;2

Column phase: SYNERGI HYDRORP C18

Instrument: LC10,1

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC9 Batch ID: 03082010
Method : Method 8330 Test : SOP WS-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Volor Wt	Extract Vol	Diln	Comments
08-MAR-2010	14:26	NS	8330 Primer L6	C-000001.	0 g	0 mL	1	
08-MAR-2010	15:32	NS	8330 Primer L6	C-000002.	0 g	0 mL	1	
08-MAR-2010	16:37	NS	STD_06 09GCSV0482 8330 200-500	C-000003.	0 g	0 mL	1	
08-MAR-2010	17:42	NS	LWDCW1AA 0064329 G0C050000-MB	C-000004.	10 g	80 mL	1	
08-MAR-2010	18:48	NS	LV7J71AC 0064329 A0C020453-1	C-000005.	10.01 g	80 mL	1	
08-MAR-2010	19:53	NS	LV7J91AC 0064329 A0C020453-2	C-000006.	10.04 g	80 mL	1	
08-MAR-2010	20:59	NS	LV7KA1AC 0064329 A0C020453-3	C-000007.	10.08 g	80 mL	1	
08-MAR-2010	22:04	NS	LV8911AC 0064329 A0C030537-1	C-000008.	10 g	80 mL	1	
08-MAR-2010	23:10	NS	LV8981AC 0064329 A0C030537-2	C-000009.	10 g	80 mL	1	
09-MAR-2010	00:15	NS	LV8991AC 0064329 A0C030537-3	C-000010.	9.98 g	80 mL	1	
09-MAR-2010	01:21	NS	LV9AA1AC 0064329 A0C030537-4	C-000011.	10.01 g	80 mL	1	
09-MAR-2010	02:27	NS	LV9AC1AC 0064329 A0C030537-5	C-000012.	10.02 g	80 mL	1	
09-MAR-2010	03:32	NS	STD_05 10GCSV0072 8330 100-200	C-000013.	0 g	0 mL	1	
09-MAR-2010	04:38	NS	LV9AC1AD 0064329 A0C030537-5 D	C-000014.	9.98 g	80 mL	1	
09-MAR-2010	05:43	NS	LV9AC1AE 0064329 A0C030537-5 T	C-000015.	10.01 g	80 mL	1	
09-MAR-2010	06:49	NS	LV9RD1AA 0063129 G0C040000-MB	C-000016.	10 g	80 mL	1	
09-MAR-2010	07:54	NS	LV2DH1DM 0063129 A0B240490-1	C-000017.	9.76 g	80 mL	1	
09-MAR-2010	09:00	NS	LV2D01A4 0063129 A0B240490-2	C-000018.	9.72 g	80 mL	1	
09-MAR-2010	10:05	NS	LV2D01A6 0063129 A0B240490-2 D	C-000019.	10.01 g	80 mL	1	NOT NEEDED, NOT REPORTED 3/15/10
09-MAR-2010	11:11	NS	LV2D01A7 0063129 A0B240490-2 T	C-000020.	10.28 g	80 mL	1	NOT NEEDED, NOT REPORTED
09-MAR-2010	12:16	NS	LV2D21A4 0063129 A0B240490-3	C-000021.	10.36 g	80 mL	1	
09-MAR-2010	13:22	NS	LV2D51AK 0063129 A0B240490-4	C-000022.	9.98 g	80 mL	1	
09-MAR-2010	14:28	NS	STD_05 10GCSV0072 8330 100-200	C-000023.	0 g	0 mL	1	
09-MAR-2010	15:33	NS	LV2D61A4 0063129 A0B240490-5	C-000024.	9.71 g	80 mL	1	
09-MAR-2010	16:39	NS	LV2D71A4 0063129 A0B240490-6	C-000025.	10.09 g	80 mL	1	
09-MAR-2010	17:44	NS	LV2D81A4 0063129 A0B240490-7	C-000026.	9.91 g	80 mL	1	
09-MAR-2010	18:50	NS	LV2D91A4 0063129 A0B240490-8	C-000027.	9.87 g	80 mL	1	
09-MAR-2010	19:55	NS	LV2EC1A4 0063129 A0B240490-9	C-000028.	10.35 g	80 mL	1	
09-MAR-2010	21:01	NS	LV2EF1A4 0063129 A0B240490-10	C-000029.	10.52 g	80 mL	1	
09-MAR-2010	22:06	NS	LV2EH1A4 0063129 A0B240490-11	C-000030.	9.96 g	80 mL	1	
09-MAR-2010	23:12	NS	LV2EJ1A5 0063129 A0B240490-12	C-000031.	10.34 g	80 mL	1	
10-MAR-2010	00:18	NS	LV2FA1AG 0063129 A0B240490-13	C-000032.	10.09 g	80 mL	1	
10-MAR-2010	01:23	NS	STD_05 10GCSV0072 8330 100-200	C-000033.	0 g	0 mL	1	
10-MAR-2010	02:29	NS	LV2FD1AN 0063129 A0B240490-14	C-000034.	10.15 g	80 mL	1	
10-MAR-2010	03:35	NS	LV2FG1AV 0063129 A0B240490-15	C-000035.	10.23 g	80 mL	1	
10-MAR-2010	04:40	NS	LV2FH1A8 0063129 A0B240490-16	C-000036.	10.3 g	80 mL	1	
10-MAR-2010	05:46	NS	LV2FK1AV 0063129 A0B240490-17	C-000037.	9.99 g	80 mL	1	
10-MAR-2010	06:51	NS	LV2FM1A3 0063129 A0B240490-18	C-000038.	9.79 g	80 mL	1	
10-MAR-2010	07:57	NS	LV2FP1A3 0063129 A0B240490-19	C-000039.	10.11 g	80 mL	1	
10-MAR-2010	09:03	NS	LV2FQ1DL 0063129 A0B240490-20	C-000040.	9.82 g	80 mL	1	
10-MAR-2010	10:08	NS	LWENK1AA 0067343 G0C080000-MB	C-000041.	10 g	80 mL	1	
10-MAR-2010	11:14	NS	LWAEM1AC 0067343 A0C040510-1	C-000042.	10.33 g	80 mL	1	
10-MAR-2010	12:19	NS	STD_05 10GCSV0072 8330 100-200	C-000043.	0 g	0 mL	1	
10-MAR-2010	13:25	NS	LWAE61AC 0067343 A0C040510-2	C-000044.	10.42 g	80 mL	1	
10-MAR-2010	14:30	NS	LWAFC1AC 0067343 A0C040510-3	C-000045.	10.12 g	80 mL	1	
10-MAR-2010	15:36	NS	LWAFF1AC 0067343 A0C040510-4	C-000046.	10.41 g	80 mL	1	
10-MAR-2010	16:41	NS	LWDNG1AA 0065052 G0C060000-MB	C-000047.	10 g	80 mL	1	
10-MAR-2010	17:47	NS	LV3KM1A4 0065052 A0B250463-1	C-000048.	10 g	80 mL	1	
10-MAR-2010	18:53	NS	LV3KM1A5 0065052 A0B250463-1 D	C-000049.	10.09 g	80 mL	1	NOT NEEDED, NOT REPORTED 3/15/10
10-MAR-2010	19:58	NS	LV3KM1A6 0065052 A0B250463-1 T	C-000050.	10.08 g	80 mL	1	NOT NEEDED, NOT REPORTED

Sequence continued on next page

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page 2 of Batch 03082010 on Instrument LC9
For header information, refer to the first page of this batch's log.

Date	Time	Operator	Sample ID	File ID	Wt or Vol	Extract Vol	Diln	Comments
10-MAR-2010	21:04	NS	LV3KN1AF 0065052 A0B250463-2	C-000051.	9.98 g	80 mL	1	
10-MAR-2010	22:10	NS	LV3KP1AF 0065052 A0B250463-3	C-000052.	10.06 g	80 mL	1	
10-MAR-2010	23:15	NS	STD_05 10GCSV0072 8330 100-200	C-000053.	0 g	0 mL	1	
11-MAR-2010	00:21	NS	LV3KQ1A8 0065052 A0B250463-4	C-000054.	10.05 g	80 mL	1	
11-MAR-2010	01:27	NS	LV3KR1AK 0065052 A0B250463-5	C-000055.	10.03 g	80 mL	1	
11-MAR-2010	02:32	NS	LV3KT1AF 0065052 A0B250463-6	C-000056.	10.1 g	80 mL	1	
11-MAR-2010	03:38	NS	LV3KW1AF 0065052 A0B250463-7	C-000057.	10.06 g	80 mL	1	
11-MAR-2010	04:44	NS	LV3KX1AF 0065052 A0B250463-8	C-000058.	10.02 g	80 mL	1	
11-MAR-2010	05:49	NS	LV3K11AP0065052 A0B250463-9	C-000059.	10.01 g	80 mL	1	
11-MAR-2010	06:55	NS	LV3K31AF 0065052 A0B250463-10	C-000060.	10.03 g	80 mL	1	
11-MAR-2010	08:01	NS	LV3K71AF 0065052 A0B250463-11	C-000061.	10.01 g	80 mL	1	
11-MAR-2010	09:06	NS	LV3K81AF 0065052 A0B250463-12	C-000062.	10.06 g	80 mL	1	
11-MAR-2010	10:12	NS	STD_05 10GCSV0072 8330 100-200	C-000063.	0 g	0 mL	1	
11-MAR-2010	11:18	NS	LV3K91A4 0065052 A0B250463-13	C-000064.	10.05 g	80 mL	1	
11-MAR-2010	12:24	NS	LV3LA1AF 0065052 A0B250463-14	C-000065.	10.06 g	80 mL	1	
11-MAR-2010	13:30	NS	LV3LC1AN 0065052 A0B250463-15	C-000066.	10 g	80 mL	1	
11-MAR-2010	14:35	NS	LV3LE1AW 0065052 A0B250463-16	C-000067.	9.99 g	80 mL	1	
11-MAR-2010	15:41	NS	LV3LJ1A7 0065052 A0B250463-18	C-000068.	9.98 g	80 mL	1	
11-MAR-2010	16:47	NS	LV3LM1DM 0065052 A0B250463-20	C-000069.	10.03 g	80 mL	1	
11-MAR-2010	17:52	NS	LXC51AA 068272 [illegible]-MB	C-000070.	10 g	80 mL	1	
11-MAR-2010	18:58	NS	LV41N1AE 0068272 A0B260454-1	C-000071.	10.01 g	80 mL	1	
11-MAR-2010	20:03	NS	LV41R1AK 0068272 A0B260454-2	C-000072.	10.17 g	80 mL	1	
11-MAR-2010	21:09	NS	STD_05 10GCSV0072 8330 100-200	C-000073.	0 g	0 mL	1	
11-MAR-2010	22:15	NS	LV41V1A4 0068272 A0B260454-3	C-000074.	10.36 g	80 mL	1	
11-MAR-2010	23:21	NS	LV41Y1AF 0068272 A0B260454-4	C-000075.	10.14 g	80 mL	1	
12-MAR-2010	00:26	NS	LV4241AM 0068272 A0B260454-5	C-000076.	10.09 g	80 mL	1	
12-MAR-2010	01:32	NS	LV4111A6 0068272 A0B260454-5 D	C-000077.	10.17 g	80 mL	1	NOT NEEDED - NOT NEEDED REPORTED ML 3/18
12-MAR-2010	02:38	NS	LV4141A7 0068272 A0B260454-5 T	C-000078.	10.1 g	80 mL	1	
12-MAR-2010	03:44	NS	LV42P1A8 0068272 A0B260454-8	C-000079.	10.03 g	80 mL	1	
12-MAR-2010	04:50	NS	LV42V1A60068272 A0B260454-9	C-000080.	10.24 g	80 mL	1	
12-MAR-2010	05:55	NS	LV42W1A8 0068272 A0B260454-10	C-000081.	10.12 g	80 mL	1	
12-MAR-2010	07:01	NS	LV4211AH 0068272 A0B260454-11	C-000082.	10.51 g	80 mL	1	
12-MAR-2010	08:07	NS	STD_05 10GCSV0072 8330 100-200	C-000083.	0 g	0 mL	1	
12-MAR-2010	09:12	NS	LV43E1A8 0068272 A0B260454-16	C-000084.	10.1 g	80 mL	1	
12-MAR-2010	10:18	NS	LWCWH1A4 0068272 A0C050520-1	C-000085.	10.5 g	80 mL	1	
12-MAR-2010	11:24	NS	LWCWJ1A8 0068272 A0C050520-2	C-000086.	10.67 g	80 mL	1	
12-MAR-2010	12:29	NS	STD_05 10GCSV0072 8330 100-200	C-000087.	0 g	0 mL	1	

TestAmerica West Sacramento

C-000043.D

Chromatography Summary

Injection Date: 3/10/2010 12.19 **Operator:** NS

DataFile: LC9 I\03082010 B\C-000043.D **Vial Num:** 4

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100-200ng/mL**

Method File: LC9 I\03082010 B\8330METCNAB M

Start Cal Date: 3/3/2010 19 39 **End Cal Date:** 3/4/2010 3 18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100-200ng/mL,2

Misc. Info: ,6,;;;3,CAL sub,,0,0,

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	36 58	3207	103 1000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
HMX	40 91	3837	98 1100<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
RDX	28 01	3468	100 1000<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID				200	-100%	Fails					200	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22 26	5962	98.7900<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.41	7984	100.2000<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	46.65	12793	92.2600<	100	-8%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	18 04	3726	97 1900<	100	-3%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	37.91	4527	95 7400<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	**33.85**	**4836**	**117.1000<**	**100**	**17%**	**Fails**					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	33 11	6404	97 8400<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	30 78	3738	100 6000<	100	1%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29 45	6017	99 5800<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	25 67	3393	191.2000	200	-4%	Acceptable					200	-100%	Fails		(±15)	45
4-Nitrotoluene				200	-100%	Fails					200	-100%	Fails		(±15)	
3-Nitrotoluene	26 34	2442	95 2400<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				100	-100%	Fails		44 83	4762	98 7500	100	-1%	Acceptable		(±15)	45
PETN				100	-100%	Fails		49 93	22184	100.6000<	100	1%	Acceptable		(±15)	45
3,5-Dinitroaniline	27 21	5524	100 8000	100	1%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				100	-100%	Fails					100	-100%	Fails		(±15)	

3/11/10

Notes

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 9:30 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000043.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 10-MAR-2010 12:19
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 10-Mar-2010 13:20 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

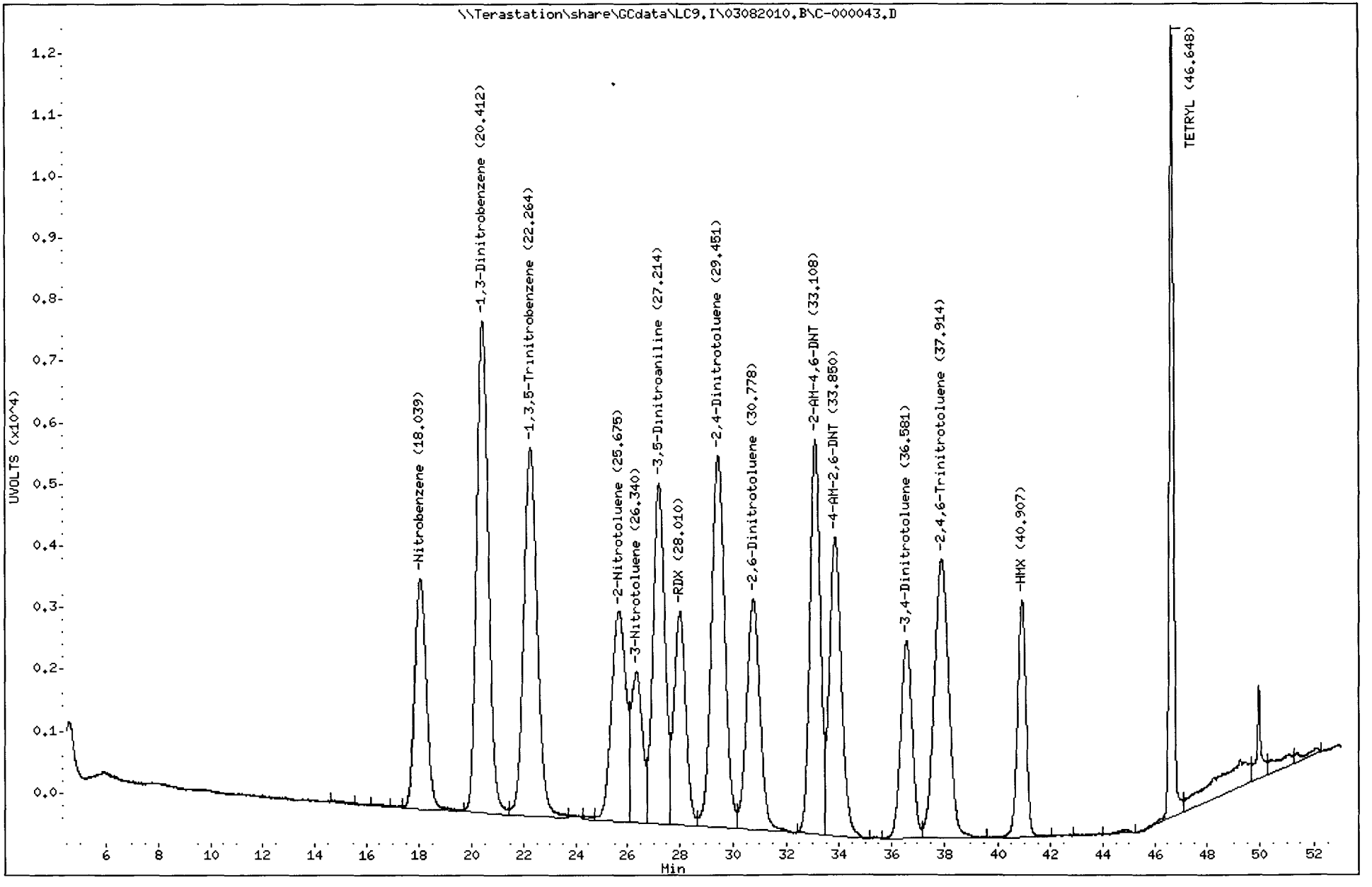
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
14.684	3553	28	0.008	0.03			
16.261	3864	24	0.006	0.02			
18.039	572439	3726	0.007	4.64		13	Nitrobenzene
20.412	1260472	7984	0.006	9.95		10	1,3-Dinitrobenzene
22.264	1070332	5962	0.006	7.43		9	1,3,5-Trinitrobenze
24.311	6691	58	0.009	0.07			
25.675	656190	3393	0.005	4.23		20	2-Nitrotoluene
26.340	369342	2442	0.007	3.04		22	3-Nitrotoluene
27.214	878983	5524	0.006	6.88		11	3,5-Dinitroaniline
28.010	529159	3468	0.007	4.32		7	RDX
29.451	1049268	6017	0.006	7.50		19	2,4-Dinitrotoluene
30.778	654361	3738	0.006	4.66		18	2,6-Dinitrotoluene
33.108	858661	6404	0.007	7.98		17	2-AM-4,6-DNT
33.850	769468	4836	0.006	6.03		16	4-AM-2,6-DNT
36.581	496430	3207	0.006	3.99	$	1	3,4-Dinitrotoluene
37.914	859907	4527	0.005	5.64		15	2,4,6-Trinitrotolue
40.907	434707	3837	0.009	4.78		4	HMX
43.675	3089	21	0.007	0.02			
44.845	8509	60	0.007	0.07			
46.648	697219	12793	0.018	16.07		12	TETRYL
49.276	220241	412	0.002	0.51			
49.956	79897	1462	0.018	1.82			
51.083	48444	174	0.004	0.21			
52.093	21187	91	0.004	0.11			
	11552412	80188		100.000			

Total unknown % height = 2.860

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000043.D
Date : 10-MAR-2010 12:19
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000043.D\C-000043.
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 10-MAR-2010 12:19
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 10-Mar-2010 13:20 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

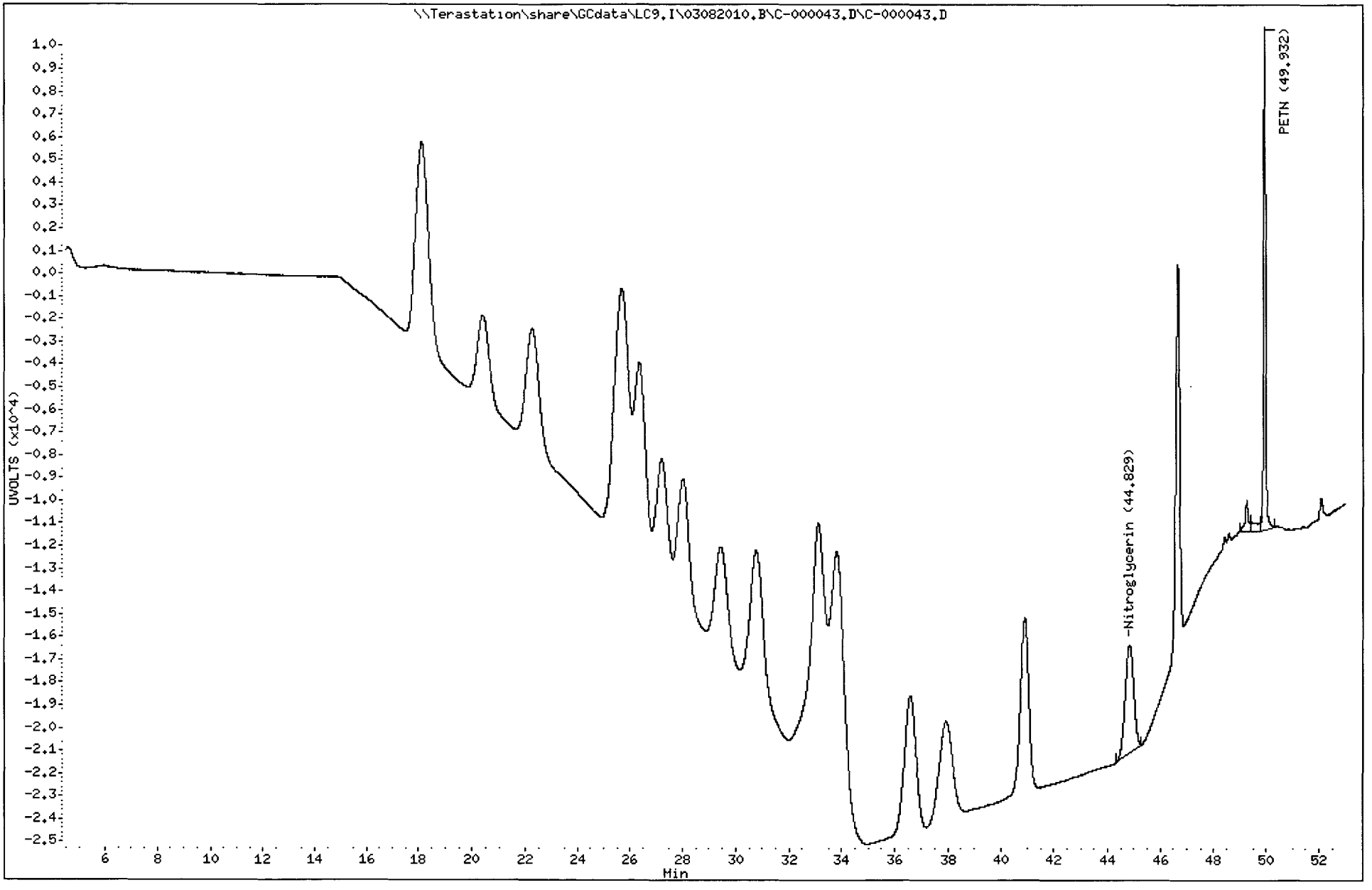
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.829	532350	4762	0.009	16.57	14 Nitroglycerin
49.263	57375	1383	0.024	4.81	
49.463	40666	399	0.010	1.38	
49.932	605197	22184	0.037	77.24	23 PETN
	1235588	28728		100.000	

Total unknown % height = 6.190

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000043.D\C-000043.D
Date : 10-MAR-2010 12:19
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

C-000047.D

Chromatography Summary

Injection Date: 3/10/2010 16:41 **Operator:** NS

DataFile: LC9 I\03082010 B\C-000047 D **Vial Num:** 50

Method 8330 Target Analyte Results

Instrument ID: LC9

Sample : **LWDNG1AA 0065052 G0C060000-MB** **Method File:** LC9 I\03082010 B\8330METCNAB M

Start Cal Date: 3/3/2010 19 39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LWDNG1AA 0065052 G0C060000-MB.0

Misc. Info: ;;;10 00,80;2;SOLIDBQSM sub,,0,1,

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.79**	**0.161**	**2166**	**556.9000<**							**0.0000**	**0.00**	**45**
HMX											12.1000	250 00	
RDX											12 0000	250 00	
Picric ACID											100 0000	1000 00	
1,3,5-Trinitrobenzene											10 0000	250 00	
1,3-Dinitrobenzene											4 2000	250 00	
TETRYL											10.0000	250 00	
Nitrobenzene											17.6000	250 00	
2,4,6-Trinitrotoluene											19.4000	250 00	
4-AM-2,6-DNT											10 0000	250 00	
2-AM-4,6-DNT											12 5000	300 00	
2,6-Dinitrotoluene	30 98	0 175	51	10.9800<							7 3000	250 00	45
2,4-Dinitrotoluene	29 35	-0.112	43	5 6930<							5 3000	250 00	45
2-Nitrotoluene	25.73	0 058	56	25 2000							13 0000	250 00	45
4-Nitrotoluene											18 2000	500 00	
3-Nitrotoluene	26.34	0 007	133	41 5000<							15 5000	250 00	45
Nitroglycerin											15 0000	500 00	
PETN											25 0000	500 00	
3,5-Dinitroaniline											8 8000	1300 00	

m 3/11/10

notrun?

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**556.9000**	**111**	**500.0000**		**0**	**(81-127)**

Notes. M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/11/2010 9:46 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000047.d
Lab Smp Id: LWDNG1AA 0065052 G0
Inj Date : 10-MAR-2010 16:41
Operator : NS Inst ID: LC9.i
Smp Info : LWDNG1AA 0065052 G0C060000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 09:45 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 50
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

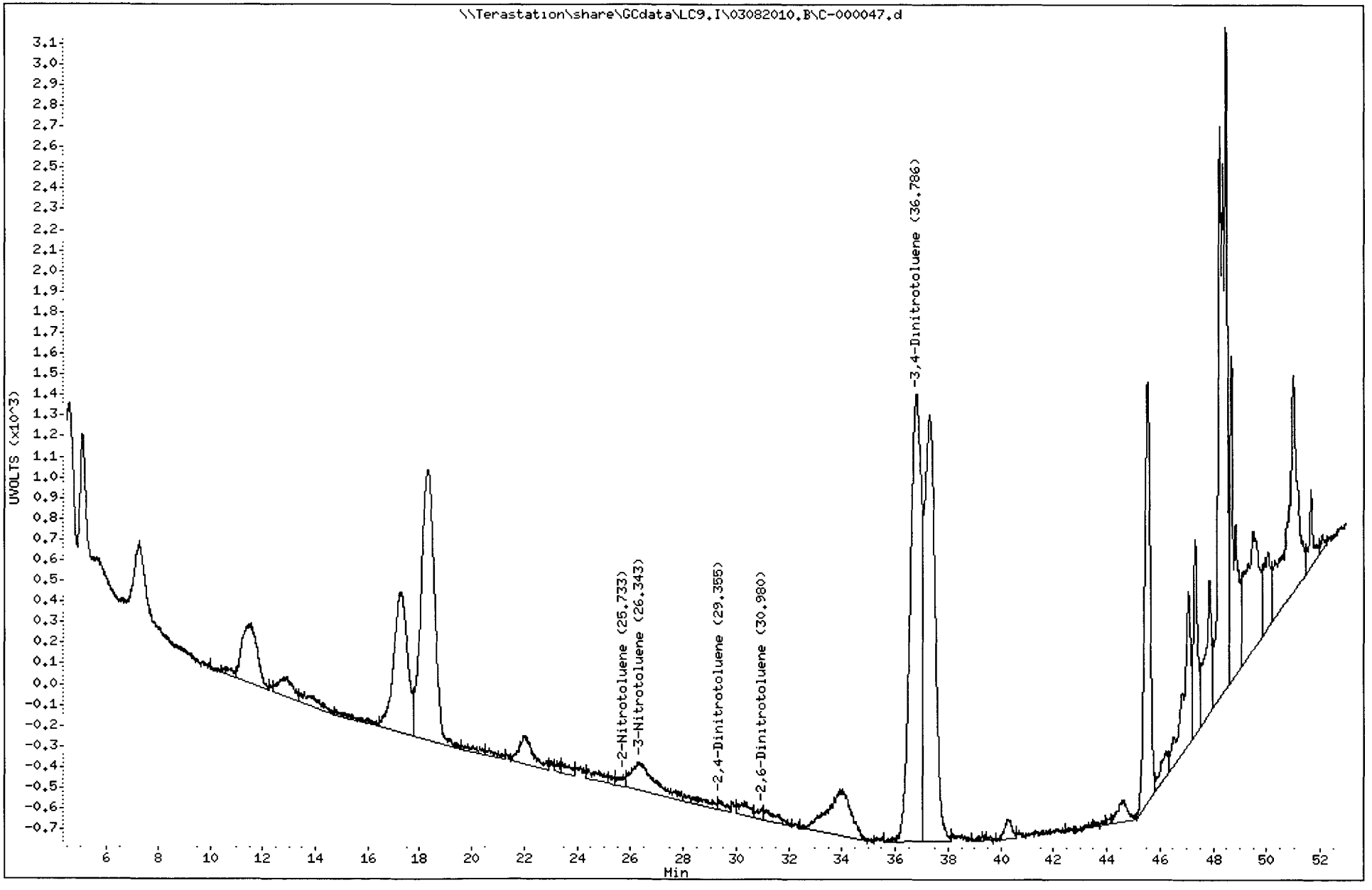
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
10.438	4594	31	0.007	0.15		
11.543	56768	286	0.005	1.45		
12.921	17309	96	0.006	0.48		
13.443	11767	43	0.004	0.21		
14.795	7106	30	0.004	0.15		
17.275	130351	682	0.005	3.47		
18.316	230792	1307	0.006	6.66		
19.619	4562	15	0.003	0.07		
20.652	4136	29	0.007	0.14		
22.004	25698	133	0.005	0.67		
23.257	2819	43	0.015	0.21		
23.445	5313	47	0.009	0.23		
24.398	8351	46	0.006	0.23		
25.214	2721	39	0.014	0.19		
25.733	4417	56	0.013	0.28		20 2-Nitrotoluene
26.343	53247	133	0.002	0.67		22 3-Nitrotoluene
29.355	4250	43	0.010	0.21		19 2,4-Dinitrotoluene
30.384	8803	63	0.007	0.32		
30.980	4050	51	0.013	0.26		18 2,6-Dinitrotoluene
31.136	9059	48	0.005	0.24		
33.943	68933	223	0.003	1.13		
36.786	325876	2166	0.007	11.04	$	1 3,4-Dinitrotoluene
37.288	287714	2064	0.007	10.52		
39.432	3398	37	0.011	0.18		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
40.280	9531	94	0.010	0.47	
43.512	3515	24	0.007	0.12	
44.629	14989	101	0.007	0.51	
45.531	150228	2039	0.014	10.39	
46.219	12633	119	0.009	0.60	
47.056	68113	737	0.011	3.75	
47.308	52022	940	0.018	4.79	
47.847	55195	639	0.012	3.25	
48.455	299412	3197	0.011	16.55	
48.655	105302	1584	0.015	8.07	
49.495	100303	572	0.006	2.91	
50.045	36815	366	0.010	1.86	
50.974	136880	1042	0.008	5.31	
51.649	21112	369	0.017	1.88	
52.091	3264	75	0.023	0.38	
	2351346	19609		100.000	

Total unknown % height = 87.54

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000047.d
Date : 10-MAR-2010 16:41
Client ID:
Sample Info: LWDNG1AA 0065052 GOC060000-MB;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.1
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000047.d\C-000047.
Lab Smp Id: LWDNG1AA 0065052 G0
Inj Date : 10-MAR-2010 16:41
Operator : NS Inst ID: LC9.i
Smp Info : LWDNG1AA 0065052 G0C060000-MB;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 00:17 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 50
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

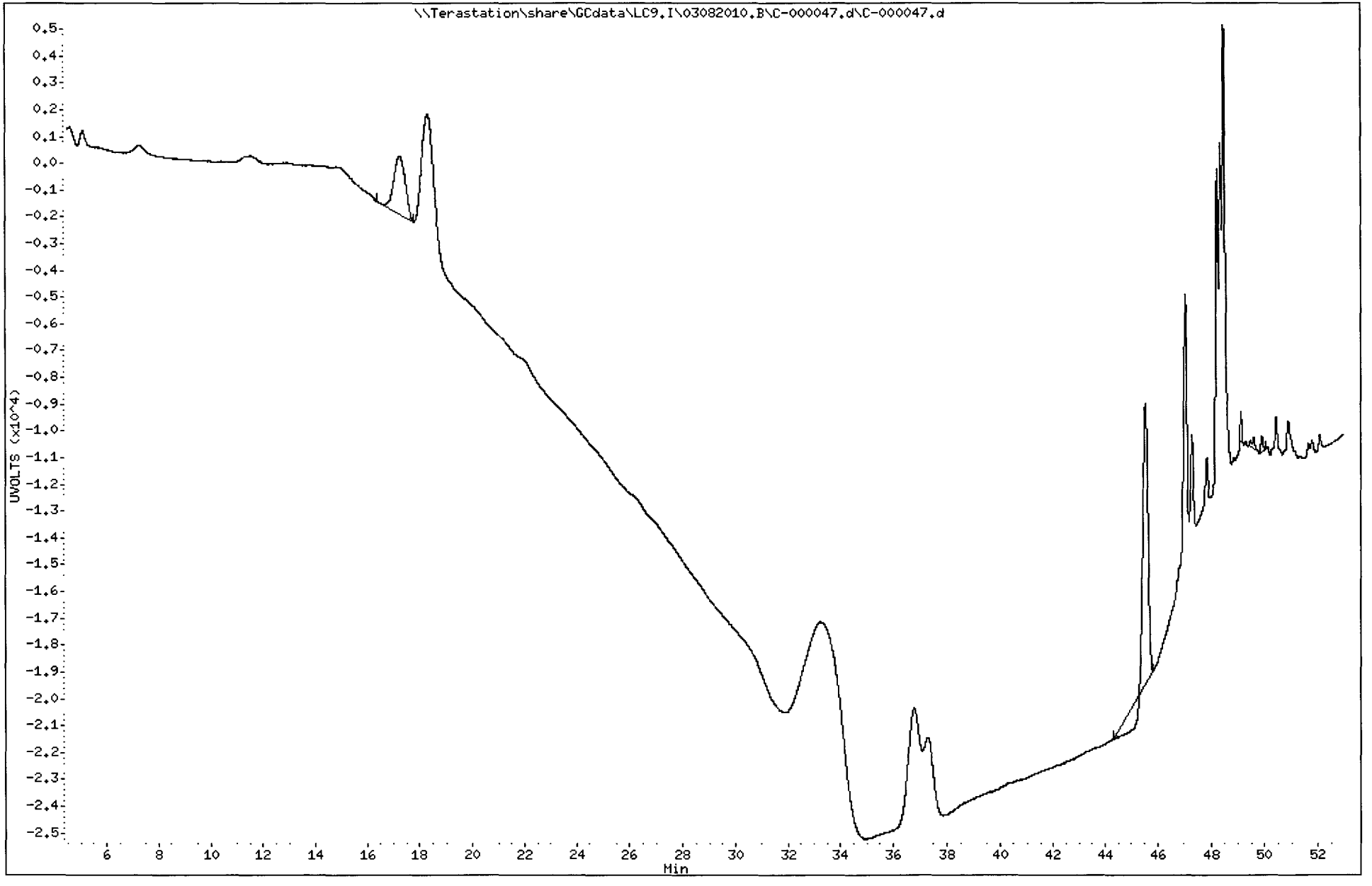
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.247	334022	2163	0.006	15.86	
45.533	553899	10482	0.019	76.89	
49.593	24179	432	0.018	3.16	
49.900	14778	559	0.038	4.09	
	926878	13636		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000047.d\C-000047.d
Date : 10-MAR-2010 16:41
Client ID:
Instrument: LC9.1
Sample Info: LWDNG1AA 0065052 GOC060000-MB;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

C-000048.D

Chromatography Summary

Method 8330 Target Analyte Results

Injection Date: 3/10/2010 17 47 **Operator:** NS
DataFile: LC9 I\03082010 B\C-000048.D **Vial Num:** 51
Instrument ID: LC9

Sample : **LV3KM1A4 0065052 A0B250463-1**

Method File: LC9 I\03082010 B\8330METCNAB M
Start Cal Date: 3/3/2010 19 39 **End Cal Date:** 3/4/2010 3 18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**
Samp. Info: LV3KM1A4 0065052 A0B250463-1.0
Misc. Info: ,,,10 00.80;2,SOLIDBQSM sub,,0.1,

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.57**	**-0.055**	**1982**	**509.6000<**							**0.0000**	**0.00**	**45**
HMX											12 1000	250 00	
RDX											12 0000	250.00	
Picric ACID											100 0000	1000 00	
1,3,5-Trinitrobenzene											10 0000	250.00	
1,3-Dinitrobenzene											4 2000	250 00	
TETRYL											10 0000	250 00	
Nitrobenzene											17 6000	250.00	
2,4,6-Trinitrotoluene											19 4000	250 00	
4-AM-2,6-DNT											10 0000	250 00	
2-AM-4,6-DNT											12.5000	300 00	
2,6-Dinitrotoluene	30 82	0 019	42	9 0430< not int.							7.3000	250 00	45
2,4-Dinitrotoluene											5 3000	250 00	
2-Nitrotoluene											13 0000	250 00	
4-Nitrotoluene											18 2000	500.00	
3-Nitrotoluene											15 5000	250 00	
Nitroglycerin											15 0000	500 00	
PETN											25 0000	500 00	
3,5-Dinitroaniline											8.8000	1300 00	

m 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**509.6000**	**102**	**500.0000**		**0**	**(81-127)**

Notes. M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000048.D
Lab Smp Id: LV3KM1A4 0065052 A0
Inj Date : 10-MAR-2010 17:47
Operator : NS Inst ID: LC9.i
Smp Info : LV3KM1A4 0065052 A0B250463-1;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 10-Mar-2010 13:46 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

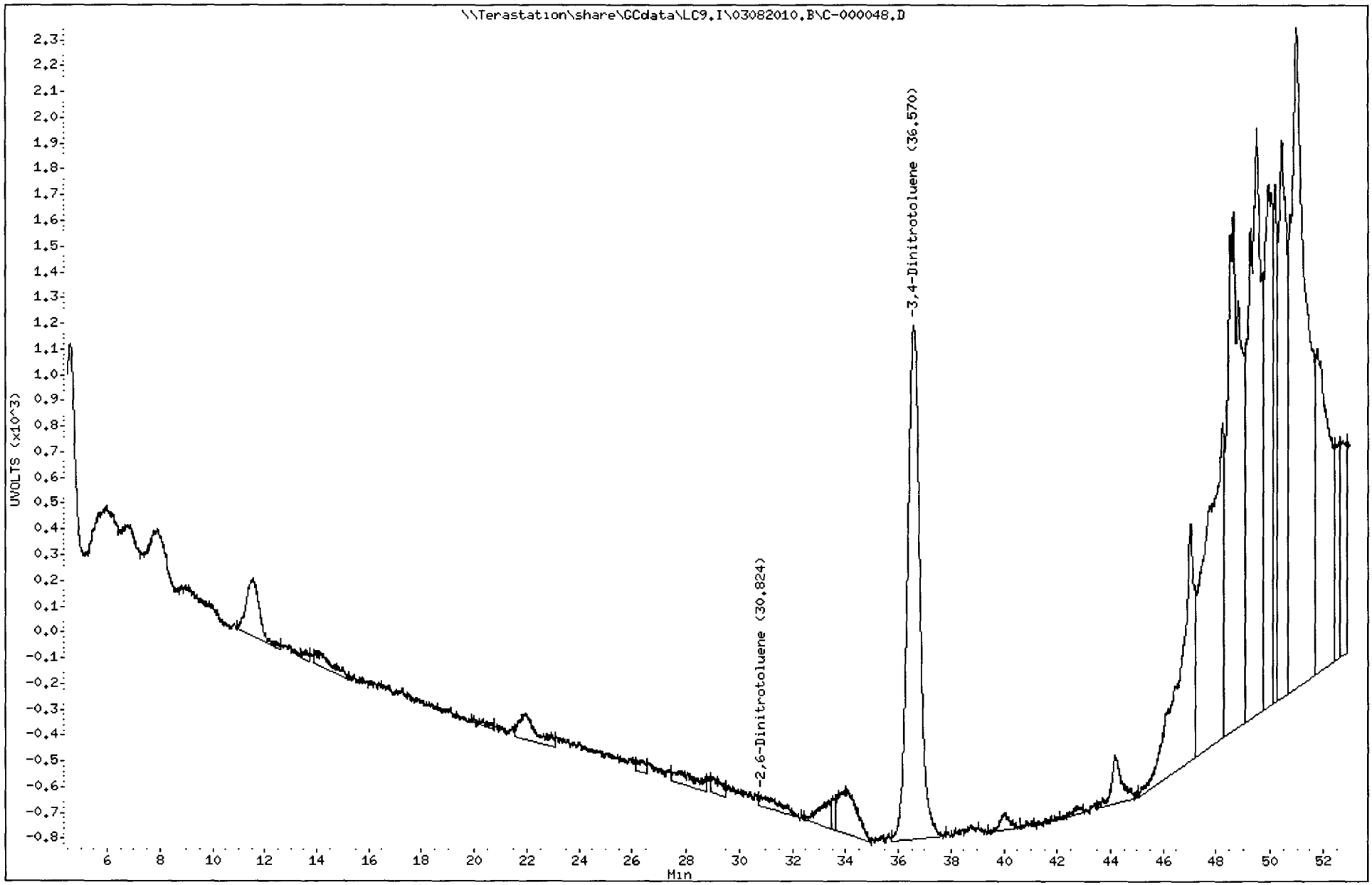
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
11.513	38181	215	0.006	1.00		
13.601	2612	43	0.016	0.20		
13.970	13236	53	0.004	0.24		
19.979	3202	17	0.005	0.07		
21.952	23092	98	0.004	0.45		
26.334	4712	45	0.010	0.21		
27.701	14316	46	0.003	0.21		
29.196	8419	66	0.008	0.30		
30.824	12247	42	0.003	0.19	18	2,6-Dinitrotoluene
33.362	15877	98	0.006	0.45		
33.528	5531	127	0.023	0.59		
33.994	41551	178	0.004	0.83		
36.570	321107	1982	0.006	9.25	$ 1	3,4-Dinitrotoluene
40.043	8374	70	0.008	0.32		
42.681	3517	30	0.009	0.14		
44.167	26331	184	0.007	0.85		
47.013	179896	918	0.005	4.28		
48.230	291691	1224	0.004	5.71		
48.627	342290	2030	0.006	9.47		
49.478	372993	2258	0.006	10.53		
49.926	212153	2033	0.010	9.48		
50.164	99600	2005	0.020	9.35		
50.417	217130	2167	0.010	10.11		
50.976	552380	2564	0.005	12.10		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
51.774	231108	1262	0.005	5.89	
52.591	49832	838	0.017	3.91	
52.724	54374	831	0.015	3.87	
	3145750	21424		100.000	

Total unknown % height = 90.56

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000048.D
Date : 10-MAR-2010 17:47
Client ID:
Sample Info: LV3KM1A4 0065052 A0B250463-1;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000048.D\C-000048.
Lab Smp Id: LV3KM1A4 0065052 A0
Inj Date : 10-MAR-2010 17:47
Operator : NS Inst ID: LC9.i
Smp Info : LV3KM1A4 0065052 A0B250463-1;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 10-Mar-2010 13:20 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

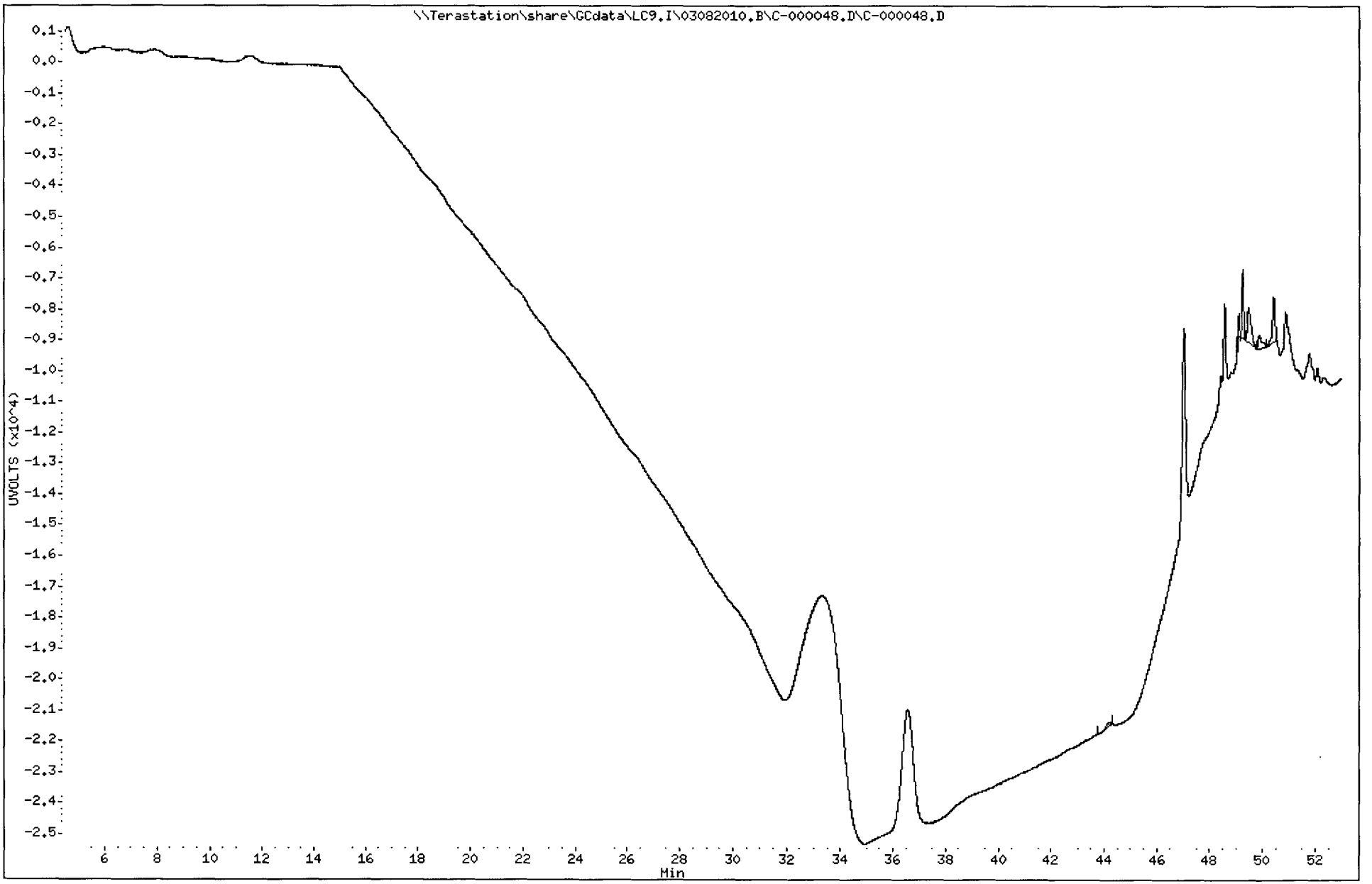
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.208	7107	114	0.016	1.85	
49.100	6747	775	0.115	12.60	
49.249	50903	2228	0.044	36.28	
49.470	53839	1143	0.021	18.59	
49.883	19483	429	0.022	6.97	
50.420	48060	1458	0.030	23.71	
	186139	6147		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000048.D\C-000048.D
Date : 10-MAR-2010 17:47
Client ID:
Sample Info: LV3KM1A4 0065052 A0B250463-1:0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

C-000051.D

Chromatography Summary

Injection Date: 3/10/2010 21:04 **Operator:** NS

DataFile: LC9 I\03082010.B\C-000051 D **Vial Num:** 54

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LV3KN1AF 0065052 A0B250463-2**

Method File: LC9 I\03082010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19 39 **End Cal Date:** 3/4/2010 3.18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	9.98 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KN1AF 0065052 A0B250463-2,0

Misc. Info: ,,;9 98;80,2;SOLIDBQSM sub,;0,1,

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.56**	**-0.064**	**2013**	**518.6000<**							**0.0000**	**0.00**	**45**
HMX											12 1242	251 00	
RDX											12 0240	251 00	
Picric ACID											100 2004	1004.01	
1,3,5-Trinitrobenzene											10 0200	251 00	
1,3-Dinitrobenzene											4.2084	251.00	
TETRYL											10 0200	251 00	
Nitrobenzene											17 6353	251 00	
2,4,6-Trinitrotoluene											19 4389	251 00	
4-AM-2,6-DNT											10.0200	251 00	
2-AM-4,6-DNT											12 5251	301 20	
2,6-Dinitrotoluene											7 3146	251 00	
2,4-Dinitrotoluene											5 3106	251 00	
2-Nitrotoluene											13.0261	251 00	
4-Nitrotoluene											18 2365	502 01	
3-Nitrotoluene											15.5311	251.00	
Nitroglycerin											15 0301	502.01	
PETN											25 0501	502 01	
3,5-Dinitroaniline											8 8176	1305 22	

m 3/11/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**501.0020**	**518.6000**	**104**	**501.0020**		**0**	**(81-127)**

Notes:
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000051.D
Lab Smp Id: LV3KN1AF 0065052 A0
Inj Date : 10-MAR-2010 21:04
Operator : NS Inst ID: LC9.i
Smp Info : LV3KN1AF 0065052 A0B250463-2;0
Misc Info : ;;;9.98;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 10-Mar-2010 13:46 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 54
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

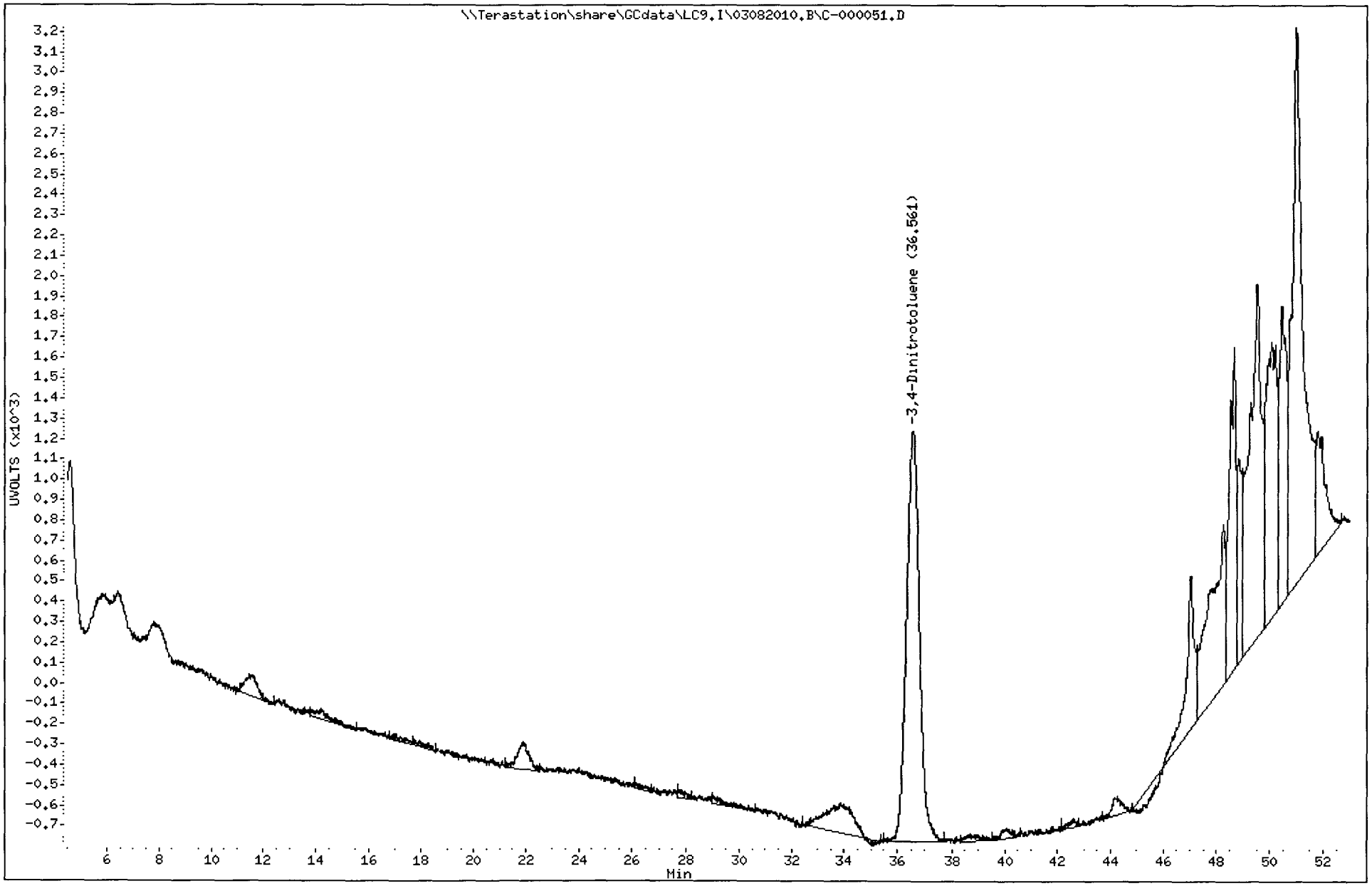
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.980	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
11.490	16221	98	0.006	0.66	
13.907	10482	31	0.003	0.20	
17.024	3649	29	0.008	0.19	
17.735	3876	26	0.007	0.17	
21.885	20072	131	0.007	0.88	
26.126	3025	25	0.008	0.16	
27.755	3740	40	0.011	0.27	
29.040	6715	40	0.006	0.27	
33.876	50601	149	0.003	1.00	
36.561	324449	2013	0.006	13.61	$ 1 3,4-Dinitrotoluene
38.684	6861	33	0.005	0.22	
40.084	7002	41	0.006	0.27	
42.634	3748	37	0.010	0.25	
44.163	12508	91	0.007	0.61	
47.016	68543	752	0.011	5.08	
48.237	162294	786	0.005	5.31	
48.643	141994	1573	0.011	10.64	
48.821	64233	1004	0.016	6.79	
49.508	273475	1732	0.006	11.71	
50.048	193174	1354	0.007	9.16	
50.433	137843	1464	0.011	9.90	
50.985	403994	2730	0.007	18.59	
51.783	73101	601	0.008	4.06	
	1991599	14780		100.000	

Total unknown % height = 86.39

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000051.D
Date : 10-MAR-2010 21:04
Client ID:
Sample Info: LV3KN1AF 0065052 A0B250463-2;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



2309

North Canton

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000051.D\C-000051.
Lab Smp Id: LV3KN1AF 0065052 A0
Inj Date : 10-MAR-2010 21:04
Operator : NS Inst ID: LC9.i
Smp Info : LV3KN1AF 0065052 A0B250463-2;0
Misc Info : ;;;9.98;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 10-Mar-2010 13:20 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 54
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.980	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
49.265	5541	736	0.133	16.24	
49.498	71627	1351	0.019	29.81	
50.435	66625	2445	0.037	53.95	
	143793	4532		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000051.D\C-000051.D

Date : 10-MAR-2010 21:04

Client ID:

Instrument: LC9.1

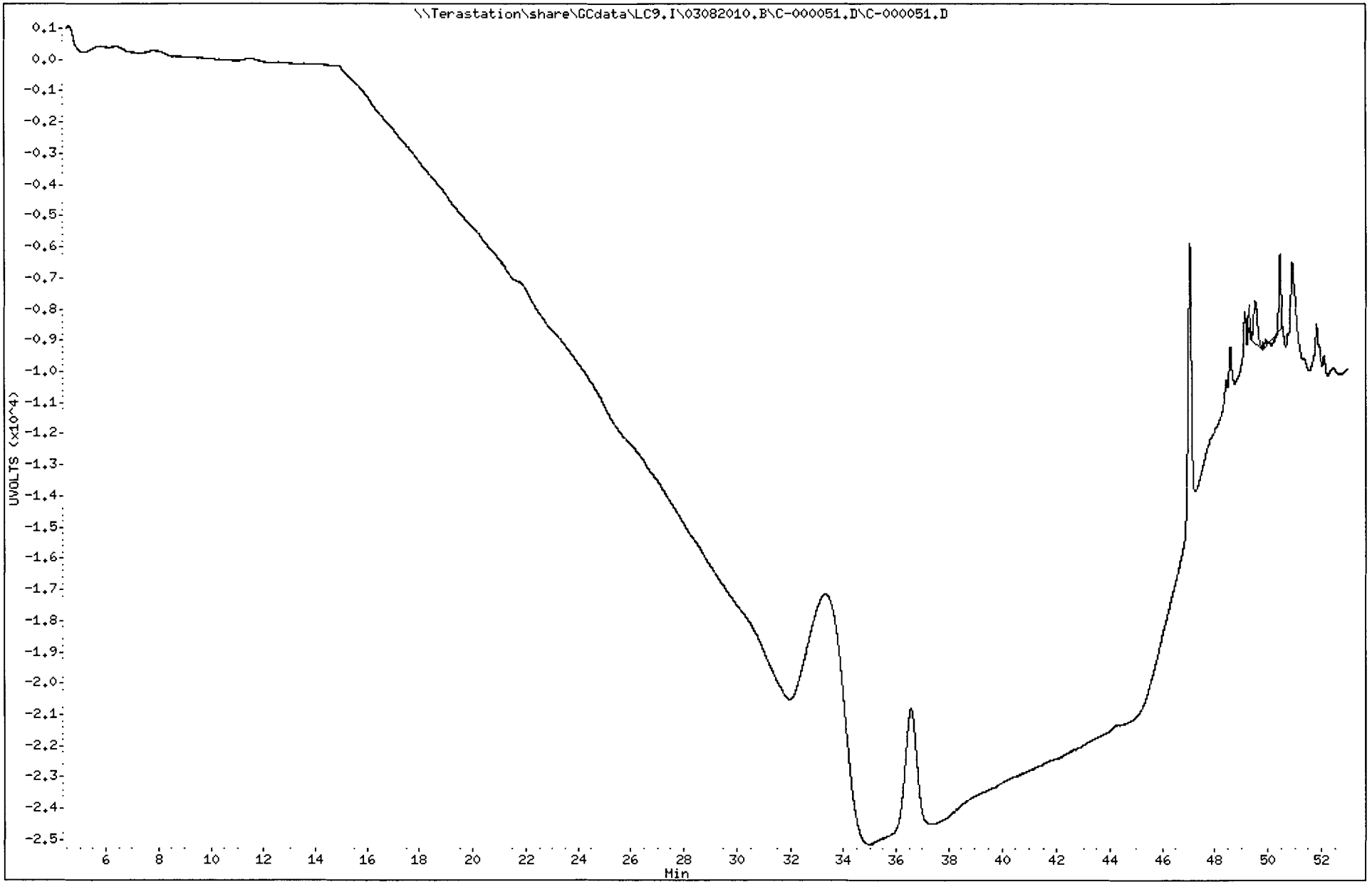
Sample Info: LV3KN1AF 0065052 A0B250463-2;0

Volume Injected (uL): 500.0

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000052.D

Chromatography Summary

Injection Date: 3/10/2010 22 10 **Operator:** NS

DataFile: LC9 I\03082010 B\C-000052 D **Vial Num:** 55

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LV3KP1AF 0065052 A0B250463-3**

Method File: LC9 I\03082010 B\8330METCNAB M

Start Cal Date: 3/3/2010 19 39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.06 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KP1AF 0065052 A0B250463-3,0

Misc. Info: ,,:10 06;80;2;SOLIDBQSM sub:,0,1,

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.83**	**0.208**	**2006**	**512.6000<**							**0.0000**	**0.00**	**45**
HMX											12 0278	247 03	
RDX											11 9284	247 03	
Picric ACID											99 4036	988 11	
1,3,5-Trinitrobenzene	22.07	-0.189	248	32.6800<							9 9404	247 03	45
1,3-Dinitrobenzene											4 1750	247 03	
TETRYL											9 9404	247 03	
Nitrobenzene											17 4950	247 03	
2,4,6-Trinitrotoluene											19 2843	247 03	
4-AM-2,6-DNT											9 9404	247 03	
2-AM-4,6-DNT											12.4254	296 43	
2,6-Dinitrotoluene											7 2565	247 03	
2,4-Dinitrotoluene											5 2684	247 03	
2-Nitrotoluene											12 9225	247 03	
4-Nitrotoluene											18 0915	494 05	
3-Nitrotoluene											15 4076	247 03	
Nitroglycerin											14.9105	494.05	
PETN											24.8509	494.05	
3,5-Dinitroaniline											8 7475	1284 54	

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.0179**	**512.6000**	**103**	**497.0179**		**0**	**(81-127)**

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000052.d
Lab Smp Id: LV3KP1AF 0065052 A0
Inj Date : 10-MAR-2010 22:10
Operator : NS Inst ID: LC9.i
Smp Info : LV3KP1AF 0065052 A0B250463-3;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 09:45 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 55
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

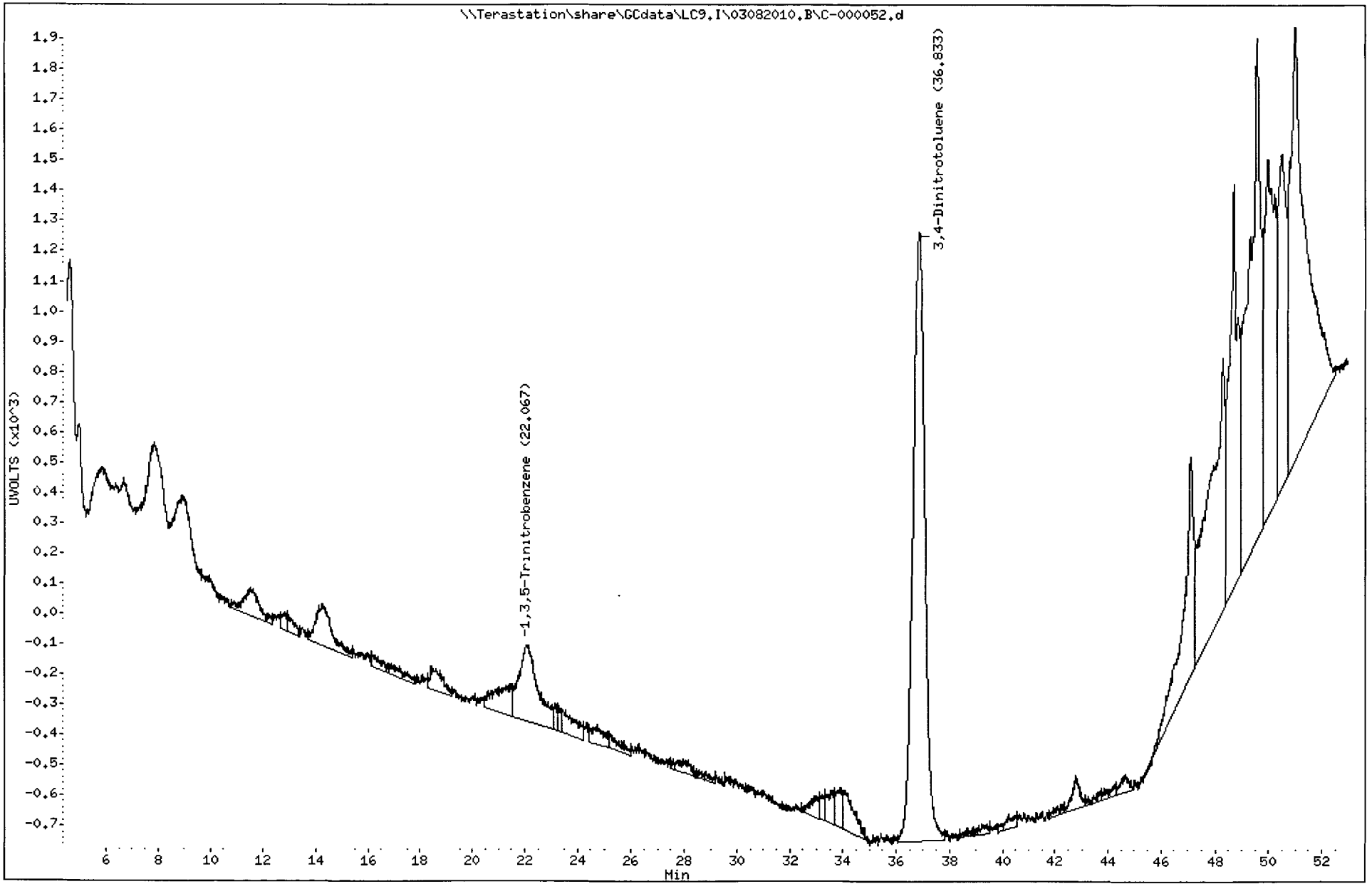
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
11.521	19930	92	0.005	0.75		
12.826	3527	57	0.016	0.46		
12.946	5085	54	0.011	0.44		
14.234	29182	133	0.005	1.08		
16.260	11355	40	0.004	0.32		
18.595	12016	71	0.006	0.57		
21.267	21787	94	0.004	0.76		
22.067	63684	248	0.004	2.02		9 1,3,5-Trinitrobenze
23.145	3205	83	0.026	0.67		
23.314	3248	77	0.024	0.62		
23.441	14251	74	0.005	0.60		
24.723	9368	65	0.007	0.53		
25.196	6884	48	0.007	0.39		
27.568	7553	37	0.005	0.30		
28.576	3248	22	0.007	0.17		
32.982	7720	67	0.009	0.54		
33.187	4397	79	0.018	0.64		
33.549	10465	106	0.010	0.86		
33.857	10361	127	0.012	1.03		
34.055	18975	125	0.007	1.02		
36.833	314173	2006	0.006	16.55	$	1 3,4-Dinitrotoluene
39.222	5162	30	0.006	0.24		
40.227	5392	46	0.009	0.37		
42.076	2741	24	0.009	0.19		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
42.777	10627	101	0.010	0.82	
43.676	2965	26	0.009	0.21	
44.243	4070	33	0.008	0.26	
44.656	6236	47	0.008	0.38	
47.093	96966	730	0.008	5.96	
48.283	174051	828	0.005	6.76	
48.679	146863	1330	0.009	10.85	
49.571	254824	1645	0.006	13.43	
49.954	161444	1179	0.007	9.62	
50.470	121090	1099	0.009	8.97	
51.000	307791	1424	0.005	11.62	
	1880637	12247		100.000	

Total unknown % height = 81.43

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000052.d
Date : 10-MAR-2010 22:10
Client ID:
Instrument: LC9.i
Sample Info: LV3KP1AF 0065052 A0B250463-3;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



2315

North Canton

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000052.d\C-000052.
Lab Smp Id: LV3KP1AF 0065052 A0
Inj Date : 10-MAR-2010 22:10
Operator : NS Inst ID: LC9.i
Smp Info : LV3KP1AF 0065052 A0B250463-3;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 00:17 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 55
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

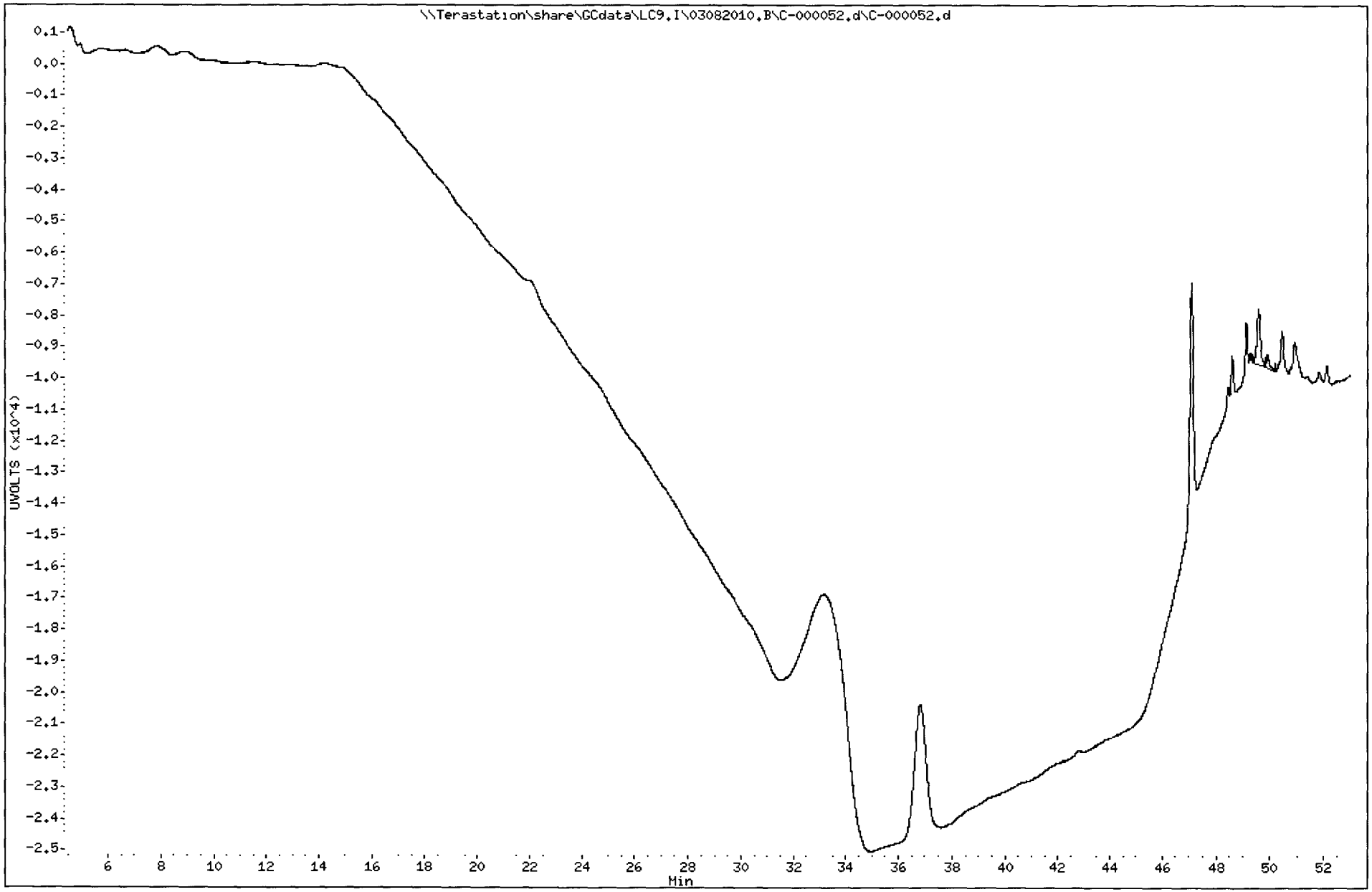
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
49.579	80623	1787	0.022	81.16	
49.916	18223	415	0.023	18.84	
	98847	2202		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000052.d\C-000052.d
Date : 10-MAR-2010 22:10
Client ID:
Sample Info: LV3KP1AF 0065052 A0B250463-3;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



2317

North Canton

TestAmerica West Sacramento

C-000053.D

Chromatography Summary

Injection Date: 3/10/2010 23.15 **Operator:** NS

DataFile: LC9 I\03082010.B\C-000053 D **Vial Num:** 5

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100-200ng/mL**

Method File: LC9 I\03082010 B\8330METCNAB M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100-200ng/mL,2

Misc. Info: ,6;,,,3;CAL sub..0,0,

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	36 63	3213	103 2000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
HMX	40 94	3846	98 3400<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
RDX	28.02	3424	98 7900<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID				200	-100%	Fails					200	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22 26	5947	98.5400<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.40	7998	100 4000<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	46 63	12816	92 4200<	100	-8%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	18 03	3931	102 5000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	37 95	4544	96 1000<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	**33.90**	**4755**	**115.1000<**	**100**	**15%**	**Fails**					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	33 15	6388	97.6000<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	30 81	3661	98 5300<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29 47	6035	99.8800<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	25 68	3565	200.9000	200	0%	Acceptable					200	-100%	Fails		(±15)	45
4-Nitrotoluene				200	-100%	Fails					200	-100%	Fails		(±15)	
3-Nitrotoluene	26 34	2563	99.9600<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				100	-100%	Fails		44 83	4785	99 2300	100	-1%	Acceptable		(±15)	45
PETN				100	-100%	Fails		49.92	21975	99 6400<	100	0%	Acceptable		(±15)	45
3,5-Dinitroaniline	27 22	5449	99.4300	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				100	-100%	Fails					100	-100%	Fails		(±15)	

M 3/11/10

Notes. M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000053.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 10-MAR-2010 23:15
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 00:16 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

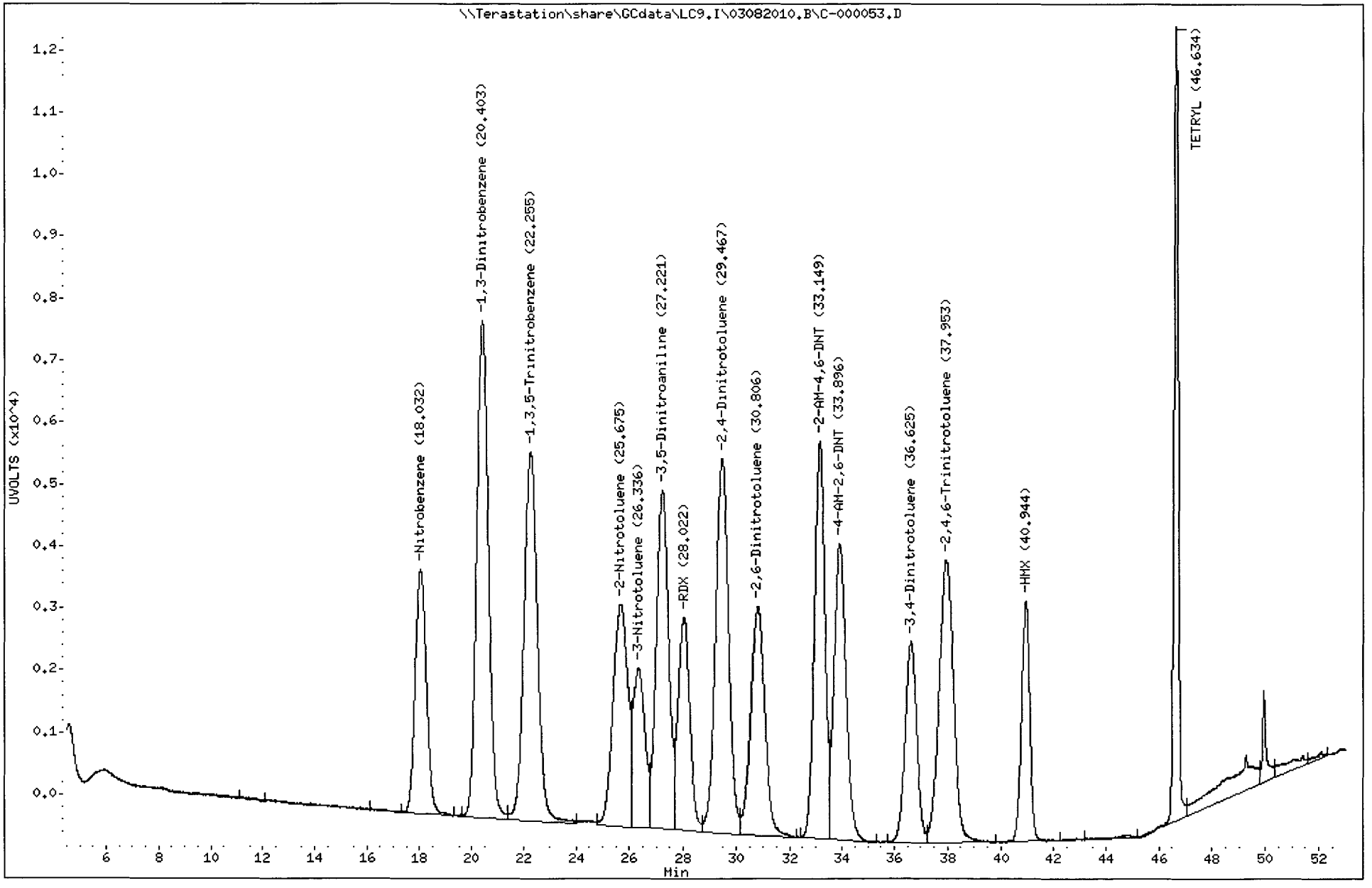
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
11.188	3898	22	0.006	0.02		
16.187	3894	29	0.007	0.03		
18.032	587928	3931	0.007	4.88		13 Nitrobenzene
20.403	1252689	7998	0.006	9.93		10 1,3-Dinitrobenzene
22.255	1062386	5947	0.006	7.38		9 1,3,5-Trinitrobenze
25.675	682118	3565	0.005	4.42		20 2-Nitrotoluene
26.336	384584	2563	0.007	3.18		22 3-Nitrotoluene
27.221	873637	5449	0.006	6.76		11 3,5-Dinitroaniline
28.022	528776	3424	0.006	4.25		7 RDX
29.467	1049277	6035	0.006	7.49		19 2,4-Dinitrotoluene
30.806	661837	3661	0.006	4.54		18 2,6-Dinitrotoluene
33.149	854005	6388	0.007	7.93		17 2-AM-4,6-DNT
33.896	760555	4755	0.006	5.90		16 4-AM-2,6-DNT
36.625	491869	3213	0.007	3.99	$	1 3,4-Dinitrotoluene
37.953	856498	4544	0.005	5.64		15 2,4,6-Trinitrotolue
40.944	425793	3846	0.009	4.77		4 HMX
42.898	2844	18	0.006	0.02		
44.829	10249	49	0.005	0.06		
46.634	684587	12816	0.019	16.03		12 TETRYL
49.259	223802	544	0.002	0.67		
49.947	75071	1458	0.019	1.81		
51.398	51762	159	0.003	0.19		
52.099	10851	89	0.008	0.11		
	11538910	80503		100.000		

Total unknown % height = 2.910

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000053.D
Date : 10-MAR-2010 23:15
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9.1
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

Method 8330

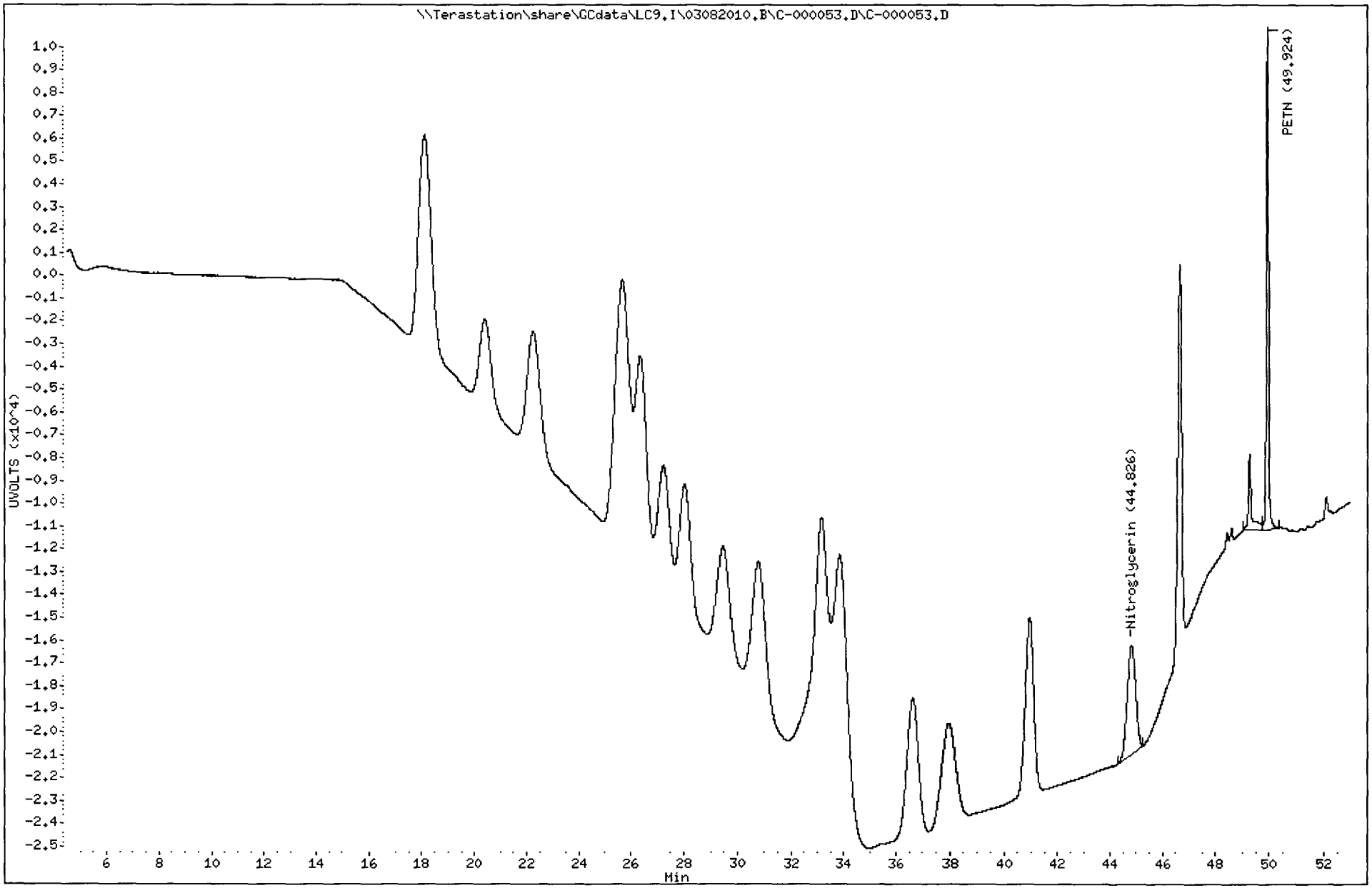
Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000053.D\C-000053.
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 10-MAR-2010 23:15
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 00:17 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.826	527836	4785	0.009	15.92	14 Nitroglycerin
49.254	131080	3290	0.025	10.94	
49.924	597312	21975	0.037	73.14	23 PETN
	1256227	30050		100.000	

Total unknown % height = 10.94

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000053.D\C-000053.D
Date : 10-MAR-2010 23:15
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9.i
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

C-000054.D

Chromatography Summary

Injection Date: 3/11/2010 0 21 **Operator:** NS

DataFile: LC9 I\03082010 B\C-000054 D **Vial Num:** 56

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LV3KQ1A8 0065052 A0B250463-4**

Method File: LC9 I\03082010 B\8330METCNAB M

Start Cal Date: 3/3/2010 19 39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10.05 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3KQ1A8 0065052 A0B250463-4,0

Misc. Info: ,,,10 05,80;2,SOLIDBQSM sub,,0,1,

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.73**	**0.108**	**2032**	**519.8000<**							**0.0000**	**0.00**	**45**
HMX											12 0398	247.52	
RDX											11 9403	247 52	
Picric ACID											99 5025	990 07	
1,3,5-Trinitrobenzene											9 9502	247 52	
1,3-Dinitrobenzene											4.1791	247 52	
TETRYL											9 9502	247 52	
Nitrobenzene											17 5124	247 52	
2,4,6-Trinitrotoluene											19 3035	247 52	
4-AM-2,6-DNT											9 9502	247 52	
2-AM-4,6-DNT											12 4378	297 02	
2,6-Dinitrotoluene	30 78	-0 022	53	11 3500<							7 2637	247.52	45
2,4-Dinitrotoluene	29 33	-0 134	54	7.4140<							5 2736	247 52	45
2-Nitrotoluene											12 9353	247.52	
4-Nitrotoluene											18 1095	495.04	
3-Nitrotoluene											15 4229	247 52	
Nitroglycerin											14.9254	495.04	
PETN											24 8756	495 04	
3,5-Dinitroaniline											8 7562	1287 10	

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.5124**	**519.8000**	**104**	**497.5124**		**0**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/11/2010 9:35 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000054.D
Lab Smp Id: LV3KQ1A8 0065052 A0
Inj Date : 11-MAR-2010 00:21
Operator : NS Inst ID: LC9.i
Smp Info : LV3KQ1A8 0065052 A0B250463-4;0
Misc Info : ;;;10.05;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 00:16 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 56
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

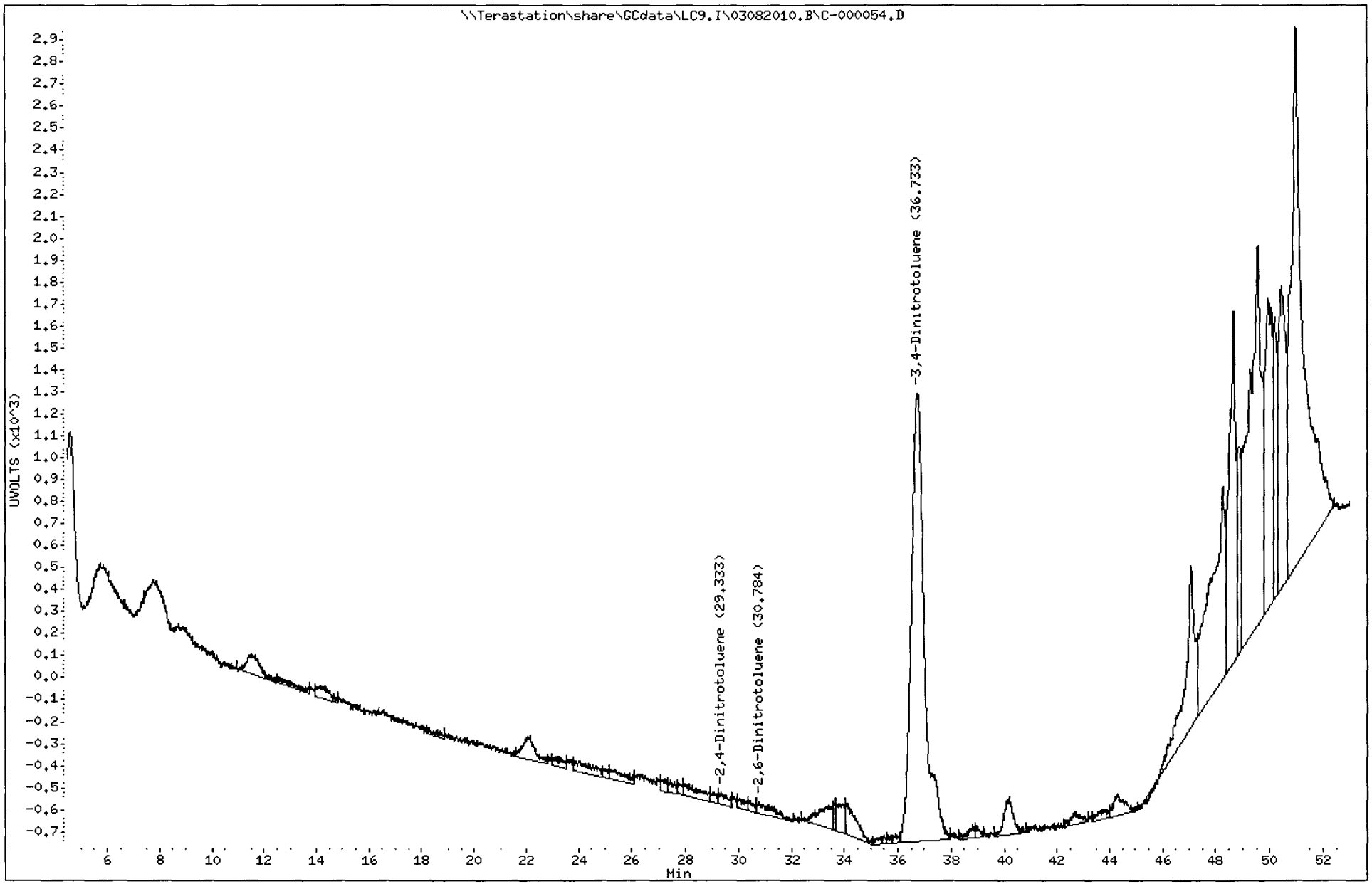
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
11.507	17346	91	0.005	0.55		
12.614	6162	25	0.004	0.15		
14.124	9631	45	0.005	0.27		
18.598	3109	33	0.011	0.20		
22.045	18295	102	0.006	0.62		
23.158	4834	44	0.009	0.26		
23.894	10532	43	0.004	0.26		
24.968	2608	33	0.013	0.20		
25.357	8817	45	0.005	0.27		
27.220	3471	57	0.016	0.34		
27.423	3941	52	0.013	0.31		
27.785	2638	51	0.019	0.31		
27.969	12292	51	0.004	0.31		
29.058	3384	46	0.014	0.28		
29.333	5930	54	0.009	0.33		19 2,4-Dinitrotoluene
30.064	4495	48	0.011	0.29		
30.428	3422	44	0.013	0.26		
30.784	10150	53	0.005	0.32		18 2,6-Dinitrotoluene
33.389	18381	106	0.006	0.64		
33.619	4680	119	0.025	0.72		
33.826	12537	135	0.011	0.82		
34.081	20978	142	0.007	0.86		
35.492	3173	33	0.010	0.20		
36.733	354031	2032	0.006	12.44	$	1 3,4-Dinitrotoluene

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
38.800	4845	59	0.012	0.36	
38.951	2555	45	0.018	0.27	
40.166	20178	169	0.008	1.03	
42.682	7938	61	0.008	0.37	
43.741	5687	39	0.007	0.23	
44.301	14212	95	0.007	0.58	
47.055	91191	729	0.008	4.46	
48.267	167494	867	0.005	5.31	
48.666	131557	1598	0.012	9.78	
48.847	44093	939	0.021	5.75	
49.548	294010	1725	0.006	10.56	
49.949	129453	1410	0.011	8.63	
50.185	55496	1283	0.023	7.86	
50.446	134444	1375	0.010	8.42	
50.991	407213	2445	0.006	15.18	
	2055203	16323		100.000	

Total unknown % height = 86.91

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000054.D
Date : 11-MAR-2010 00:21
Client ID:
Sample Info: LV3KQ1A8 0065052 A0B250463-4;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.1
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000054.D\C-000054.
Lab Smp Id: LV3KQ1A8 0065052 A0
Inj Date : 11-MAR-2010 00:21
Operator : NS Inst ID: LC9.i
Smp Info : LV3KQ1A8 0065052 A0B250463-4;0
Misc Info : ;;;10.05;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 00:17 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 56
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.050	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
49.552	64586	1382	0.021	31.21	
49.909	21391	539	0.025	12.17	
50.443	85534	2506	0.029	56.62	
	171511	4427		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000054.D\C-000054.D
Date : 11-MAR-2010 00:21
Client ID:
Sample Info: LV3KQ1A8 0065052 A0B250463-4;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

TestAmerica West Sacramento

C-000061.D

Chromatography Summary

Injection Date: 3/11/2010 8.01 **Operator:** NS

DataFile: LC9 I\03082010 B\C-000061 D **Vial Num:** 63

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LV3K71AF 0065052 A0B250463-11**

Method File: LC9 I\03082010 B\8330METCNAB.M

Start Cal Date: 3/3/2010 19.39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	**80 mL**	**0 mL**	**10.01 g**

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3K71AF 0065052 A0B250463-11;0

Misc. Info: ,,;10 01,80,2,SOLIDBQSM sub,,0.1,

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.82**	**0.195**	**1953**	**501.6000<**							**0.0000**	**0.00**	**45**
HMX											12 0879	249 50	
RDX											11.9880	249 50	
Picric ACID											99 9001	998 00	
1,3,5-Trinitrobenzene	22 10	-0 157	89	11 7900<							9 9900	249 50	45
1,3-Dinitrobenzene											4 1958	249.50	
TETRYL	46 82	0 183	961	55 3900<							9 9900	249 50	45
Nitrobenzene											17 5824	249.50	
2,4,6-Trinitrotoluene											19 3806	249 50	
4-AM-2,6-DNT											9 9900	249.50	
2-AM-4,6-DNT											12 4875	299.40	
2,6-Dinitrotoluene											7 2927	249 50	
2,4-Dinitrotoluene	29 56	0 089	41	5 4230<							5 2947	249 50	45
2-Nitrotoluene											12 9870	249.50	
4-Nitrotoluene											18 1818	499 00	
3-Nitrotoluene											15 4845	249 50	
Nitroglycerin											14 9850	499 00	
PETN											24 9750	499 00	
3,5-Dinitroaniline											8 7912	1297 40	

not conf.

mr 3/11/10

not conf.

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**499.5005**	**501.6000**	**100**	**499.5005**		**0**	**(81-127)**

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/11/2010 9:36 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000061.D
Lab Smp Id: LV3K71AF 0065052 A0
Inj Date : 11-MAR-2010 08:01
Operator : NS Inst ID: LC9.i
Smp Info : LV3K71AF 0065052 A0B250463-11;0
Misc Info : ;;;10.01;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 00:16 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

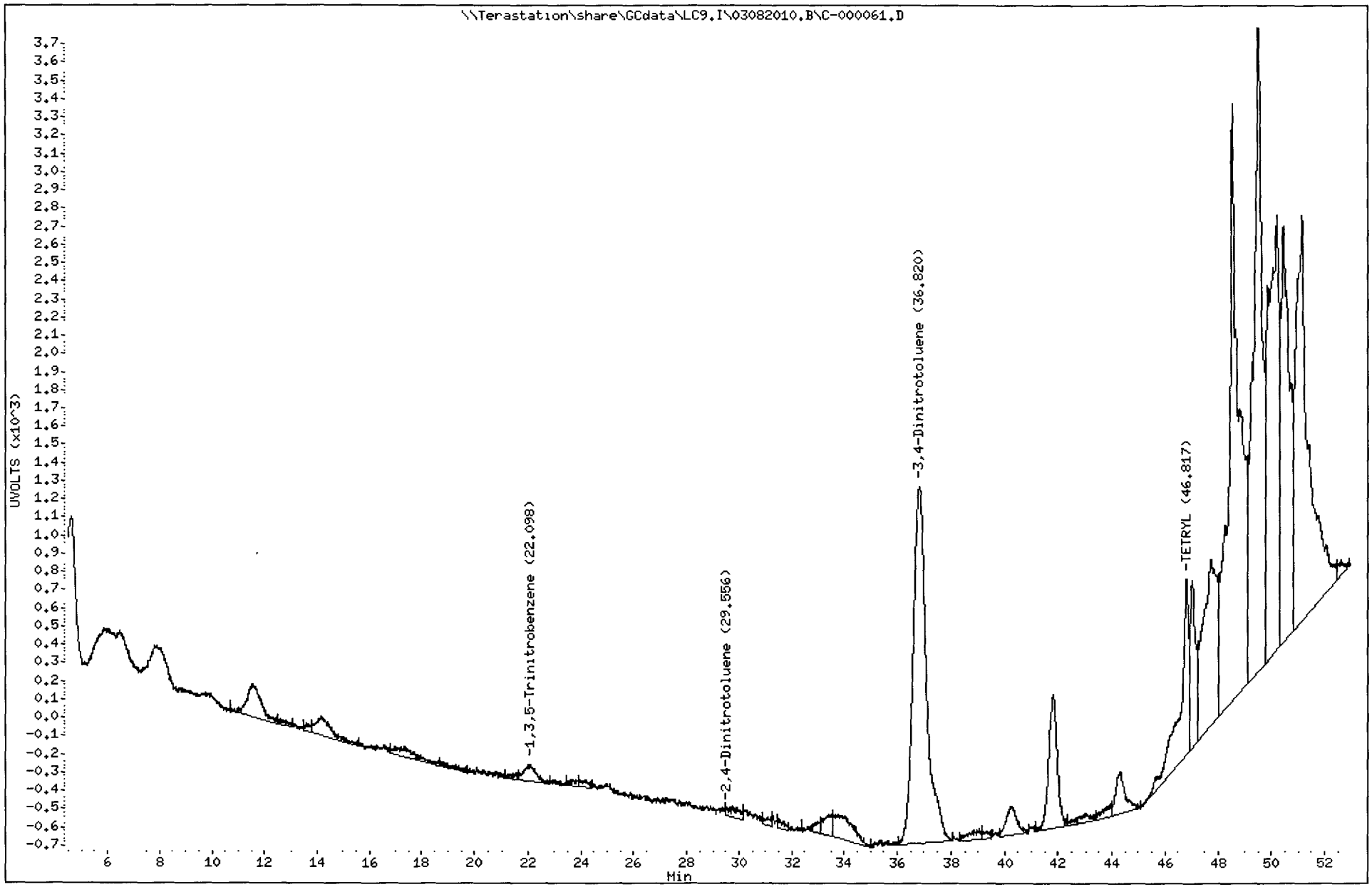
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
11.566	33533	169	0.005	0.81		
12.626	2703	27	0.010	0.12		
13.608	2922	41	0.014	0.19		
14.165	21234	106	0.005	0.50		
16.974	14706	45	0.003	0.21		
18.776	3825	28	0.007	0.13		
21.551	2837	35	0.012	0.16		
22.098	14548	89	0.006	0.42	9	1,3,5-Trinitrobenze
23.707	3185	32	0.010	0.15		
23.982	3856	30	0.008	0.14		
29.556	8650	41	0.005	0.19	19	2,4-Dinitrotoluene
31.093	3282	48	0.015	0.23		
31.517	3727	46	0.012	0.22		
32.993	4665	59	0.013	0.28		
33.418	13573	115	0.008	0.55		
33.796	32939	131	0.004	0.62		
36.820	338031	1953	0.006	9.36	$ 1	3,4-Dinitrotoluene
39.033	7580	49	0.006	0.23		
39.192	3574	40	0.011	0.19		
40.266	22019	157	0.007	0.75		
41.818	81371	728	0.009	3.49		
43.030	7543	41	0.005	0.19		
43.938	7080	67	0.009	0.32		
44.322	28524	223	0.008	1.06		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
46.817	110100	961	0.009	4.60	12 TETRYL
47.042	65028	912	0.014	4.37	
47.740	172182	907	0.005	4.35	
48.534	474258	3284	0.007	15.75	
49.505	400336	3502	0.009	16.94	
50.183	341665	2400	0.007	11.51	
50.434	247437	2289	0.009	10.97	
51.134	392642	2227	0.006	10.68	
52.613	8311	68	0.008	0.32	
	2877867	20850		100.000	

Total unknown % height = 85.43

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000061.D
Date : 11-MAR-2010 08:01
Client ID:
Sample Info: LV3K71AF 0065052 A0B250463-11;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



North Canton

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000061.D\C-000061.
Lab Smp Id: LV3K71AF 0065052 A0
Inj Date : 11-MAR-2010 08:01
Operator : NS Inst ID: LC9.i
Smp Info : LV3K71AF 0065052 A0B250463-11;0
Misc Info : ;;;10.01;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 00:17 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

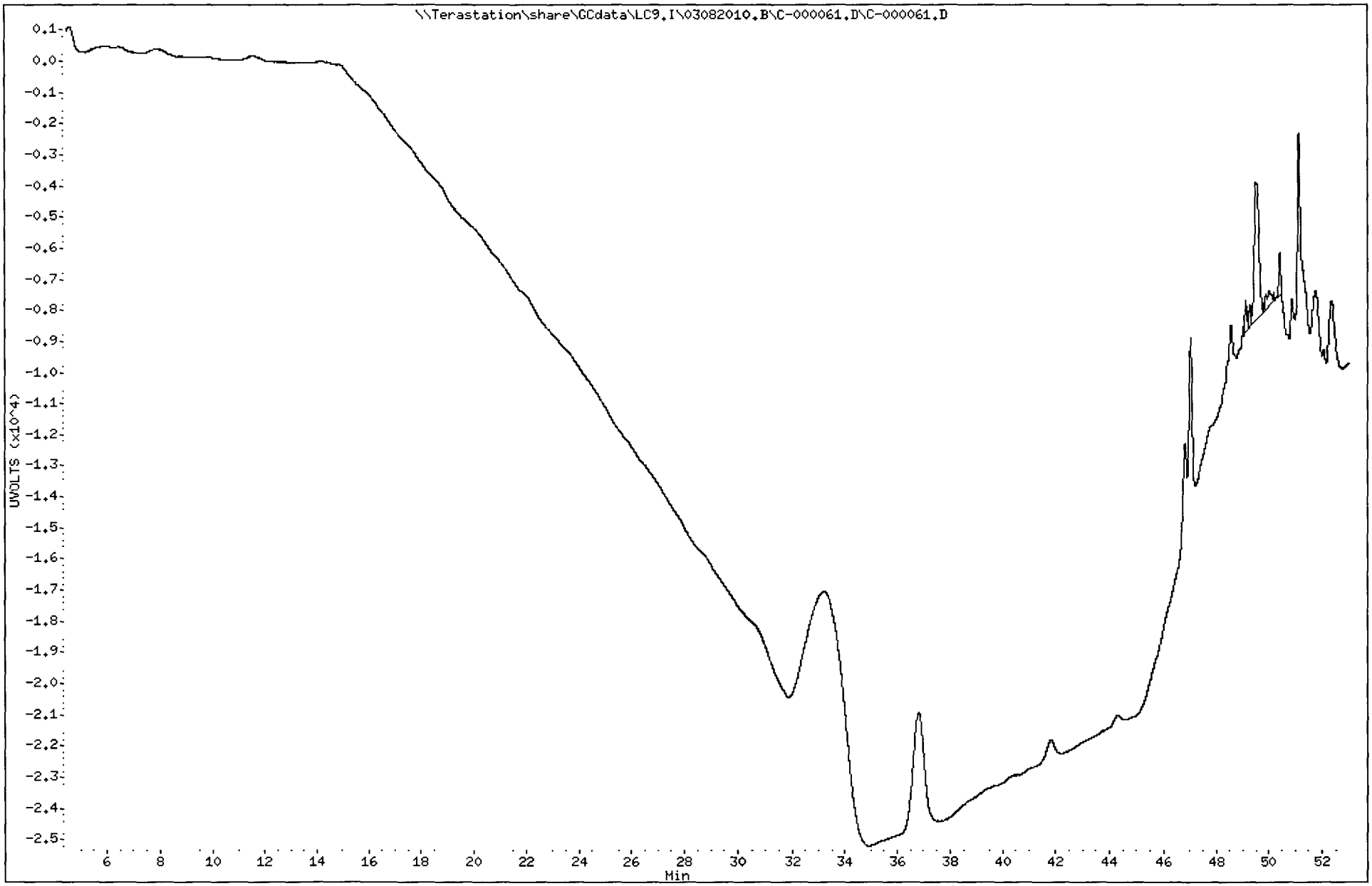
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
49.122	23455	958	0.041	12.09	
49.278	22568	708	0.031	8.93	
49.525	281363	4405	0.016	55.61	
50.018	42075	489	0.012	6.17	
50.435	39524	1363	0.034	17.20	
	408984	7923		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000061.D\C-000061.D
Date : 11-MAR-2010 08:01
Client ID:
Sample Info: LV3K71AF 0065052 A0B250463-11;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.1
Operator: NS
Column diameter: 4.60



2334

North Canton

TestAmerica West Sacramento

C-000063.D

Chromatography Summary

Method 8330 Target Analyte Results

Injection Date: 3/11/2010 10:12 Operator: NS

DataFile: LC9 B\03082010 B\C-000063.D Vial Num: 5

Instrument ID: LC9

Sample : **STD_05 10GCSV0072 8330 100-200ng/mL**

Method File: LC9 B\03082010 B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 End Cal Date: 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: STD_05 10GCSV0072 8330 100-200ng/mL.2

Misc. Info: ,6,,,,3.CAL.sub.,0.0,

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	36.58	3208	103.1000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
HMX	40.91	3872	99.0100<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
RDX	27.98	3463	99.9200<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID				200	-100%	Fails					200	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22.21	6003	99.4700<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.37	8046	101.0000<	100	1%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	46.63	12887	92.9300<	100	-7%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	18.00	3786	98.7500<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	37.90	4553	96.2900<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	**33.85**	**4864**	**117.8000<**	**100**	**18%**	**Fails**					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	33.11	6421	98.1000<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	30.75	3691	99.3300<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.42	6031	99.8100<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	25.64	3450	194.4000	200	-3%	Acceptable					200	-100%	Fails		(±15)	45
4-Nitrotoluene				200	-100%	Fails					200	-100%	Fails		(±15)	
3-Nitrotoluene	26.30	2466	96.1800<	100	-4%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				100	-100%	Fails		44.82	4854	100.6000	100	1%	Acceptable		(±15)	45
PETN				100	-100%	Fails		49.92	22222	100.8000<	100	1%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.18	5503	100.4000	100	0%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				100	-100%	Fails					100	-100%	Fails		(±15)	

OK 3/11/10

Notes

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000063.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 10:12
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 11:13 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
13.627	3235	25	0.008	0.03			
15.213	3507	24	0.007	0.02			
18.004	577043	3786	0.007	4.68		13	Nitrobenzene
20.370	1263741	8046	0.006	9.95		10	1,3-Dinitrobenzene
22.214	1073546	6003	0.006	7.42		9	1,3,5-Trinitrobenze
24.362	14081	78	0.006	0.09			
25.636	665159	3450	0.005	4.26		20	2-Nitrotoluene
26.299	375267	2466	0.007	3.05		22	3-Nitrotoluene
27.181	879392	5503	0.006	6.80		11	3,5-Dinitroaniline
27.976	530126	3463	0.007	4.28		7	RDX
29.421	1053412	6031	0.006	7.45		19	2,4-Dinitrotoluene
30.754	663029	3691	0.006	4.56		18	2,6-Dinitrotoluene
33.108	858086	6421	0.007	7.94		17	2-AM-4,6-DNT
33.853	763493	4864	0.006	6.01		16	4-AM-2,6-DNT
36.582	495344	3208	0.006	3.96	$	1	3,4-Dinitrotoluene
37.905	861791	4553	0.005	5.63		15	2,4,6-Trinitrotolue
40.914	432881	3872	0.009	4.78		4	HMX
42.962	5250	26	0.005	0.03			
44.844	9896	64	0.006	0.07			
46.630	696212	12887	0.019	16.07		12	TETRYL
49.258	227251	553	0.002	0.68			
49.947	76846	1469	0.019	1.81			
51.073	40601	144	0.004	0.17			
51.395	10778	144	0.013	0.17			
52.102	7883	79	0.010	0.09			
	11587849	80850		100.000			

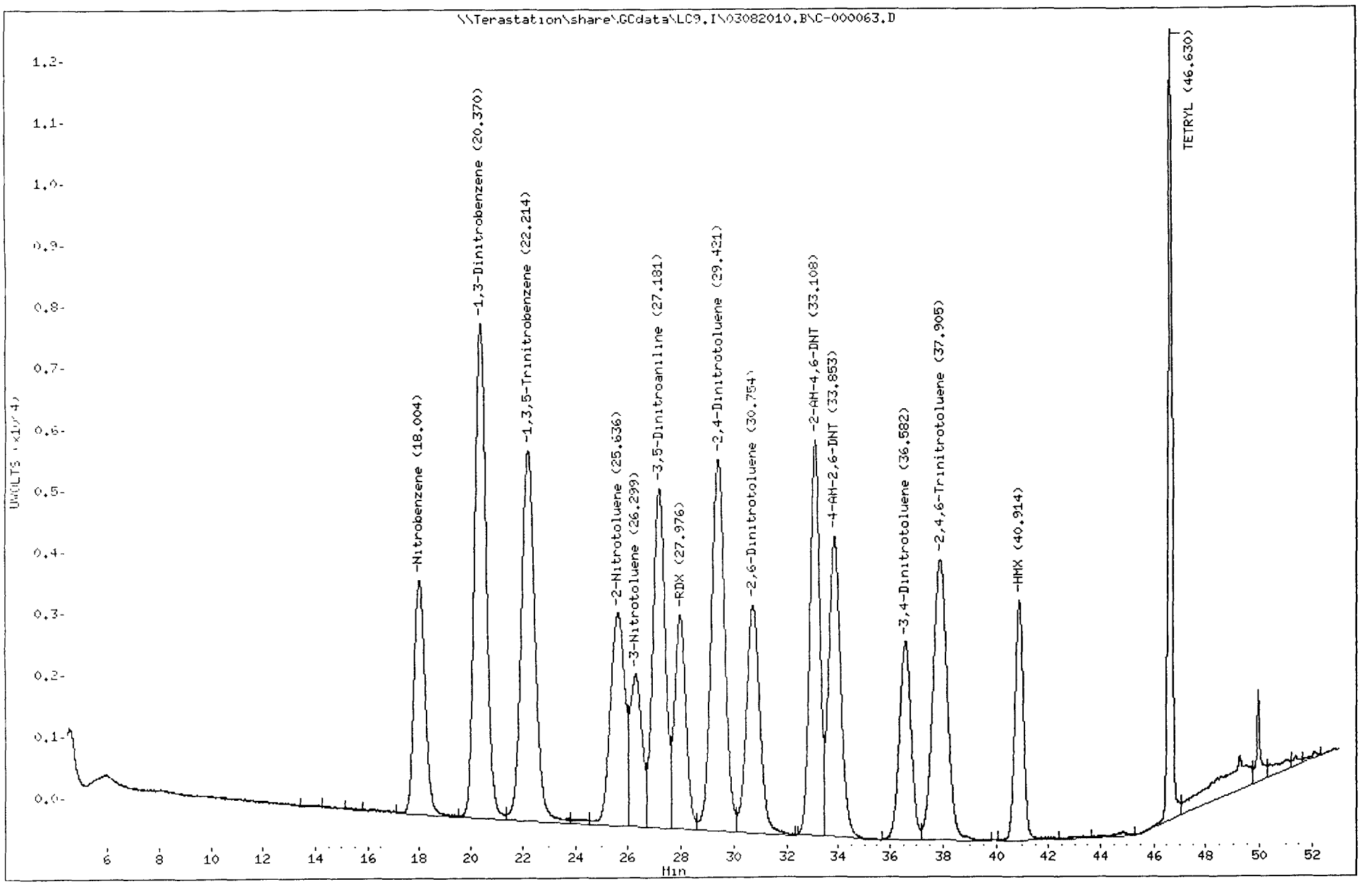
Total unknown % height = 3.160

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000063.D
Date : 11-MAR-2010 10:12
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



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Method 8330

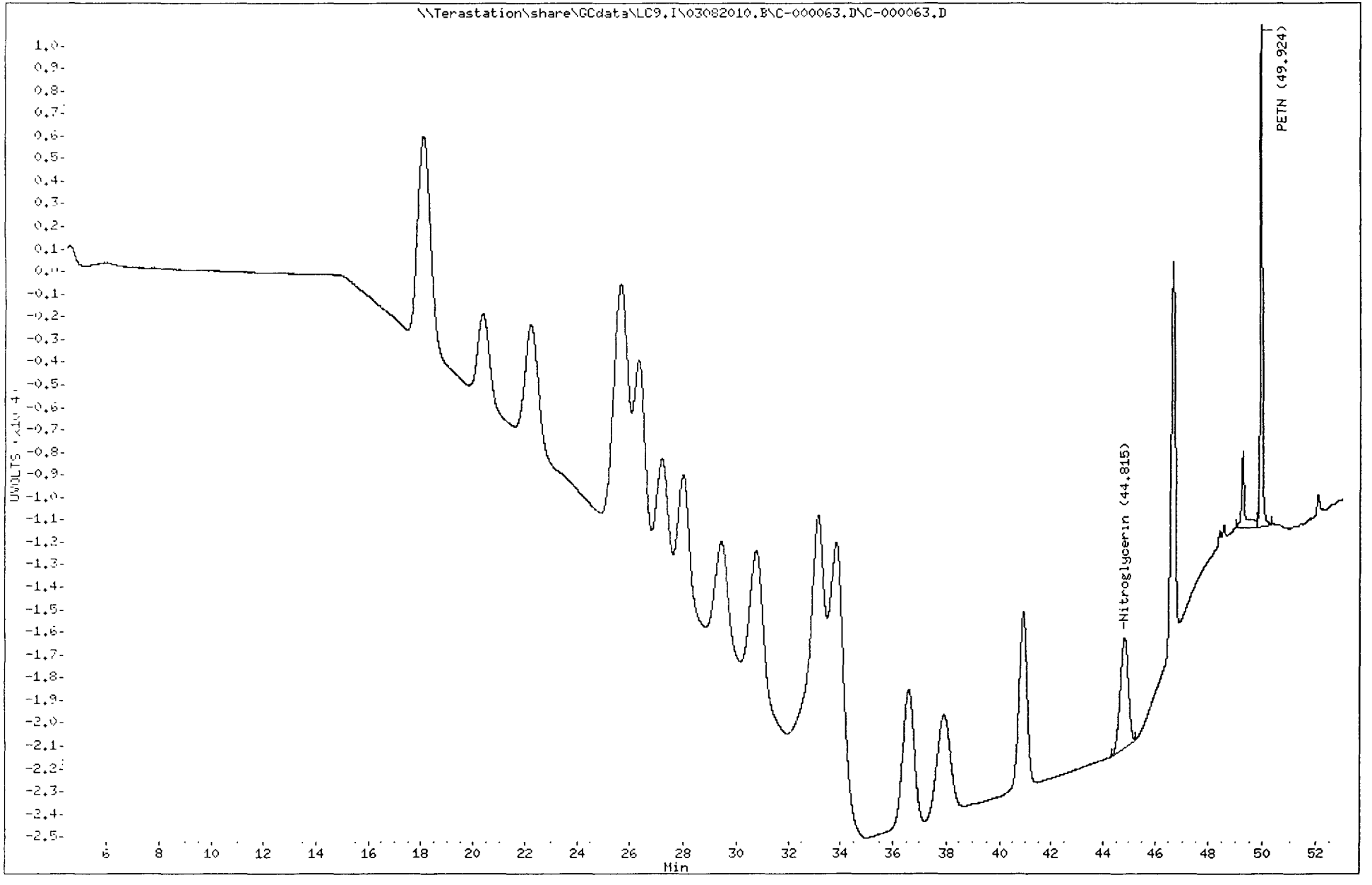
Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000063.D\C-000063.
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 10:12
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 11:13 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.815	533910	4854	0.009	15.95	14 Nitroglycerin
49.254	139764	3340	0.024	10.98	
49.924	601220	22222	0.037	73.07	23 PETN
	1274894	30416		100.000	

Total unknown % height = 10.98

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000063.D\C-000063.D
Date : 11-MAR-2010 10:12
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9.1
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

C-000065.D

Chromatography Summary

Injection Date: 3/11/2010 12 24 **Operator:** NS

DataFile: LC9 I\03082010 B\C-000065 D **Vial Num:** 66

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LV3LA1AF 0065052 A0B250463-14**

Method File: LC9 I\03082010 B\8330METCNAB M

Start Cal Date: 3/3/2010 19 39 **End Cal Date:** 3/4/2010 3 18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	**80 mL**	**0 mL**	**10.06 g**

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3LA1AF 0065052 A0B250463-14,0

Misc. Info: :;;10.06;80,2;SOLIDBQSM.sub,,0,1,

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.52**	**-0.058**	**2068**	**528.5000<**							**0.0000**	**0.00**	**45**
HMX	40 80	-0 118	266	54.0900<	not conf.						12 0278	247 03	45
RDX											11 9284	247.03	
Picric ACID											99.4036	988.11	
1,3,5-Trinitrobenzene											9 9404	247 03	
1,3-Dinitrobenzene	20 31	-0 057	83	8.2520<	not conf.						4 1750	247 03	45
TETRYL											9 9404	247 03	
Nitrobenzene											17 4950	247.03	
2,4,6-Trinitrotoluene											19.2843	247.03	
4-AM-2,6-DNT											9 9404	247.03	
2-AM-4,6-DNT											12 4254	296 43	
2,6-Dinitrotoluene											7 2565	247 03	
2,4-Dinitrotoluene											5 2684	247.03	
2-Nitrotoluene											12.9225	247 03	
4-Nitrotoluene											18.0915	494.05	
3-Nitrotoluene	26.34	0 038	62	19.7300<	not conf.						15 4076	247 03	45
Nitroglycerin											14 9105	494 05	
PETN											24.8509	494.05	
3,5-Dinitroaniline	27.08	-0 102	83	12 0400	NA						8 7475	1284 54	45

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**497.0179**	**528.5000**	**106**	**497.0179**		**0**	**(81-127)**

jm 3/11/10

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/11/2010 4:48 PM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000065.d
Lab Smp Id: LV3LA1AF 0065052 A0
Inj Date : 11-MAR-2010 12:24
Operator : NS Inst ID: LC9.i
Smp Info : LV3LA1AF 0065052 A0B250463-14;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 16:45 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 66
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

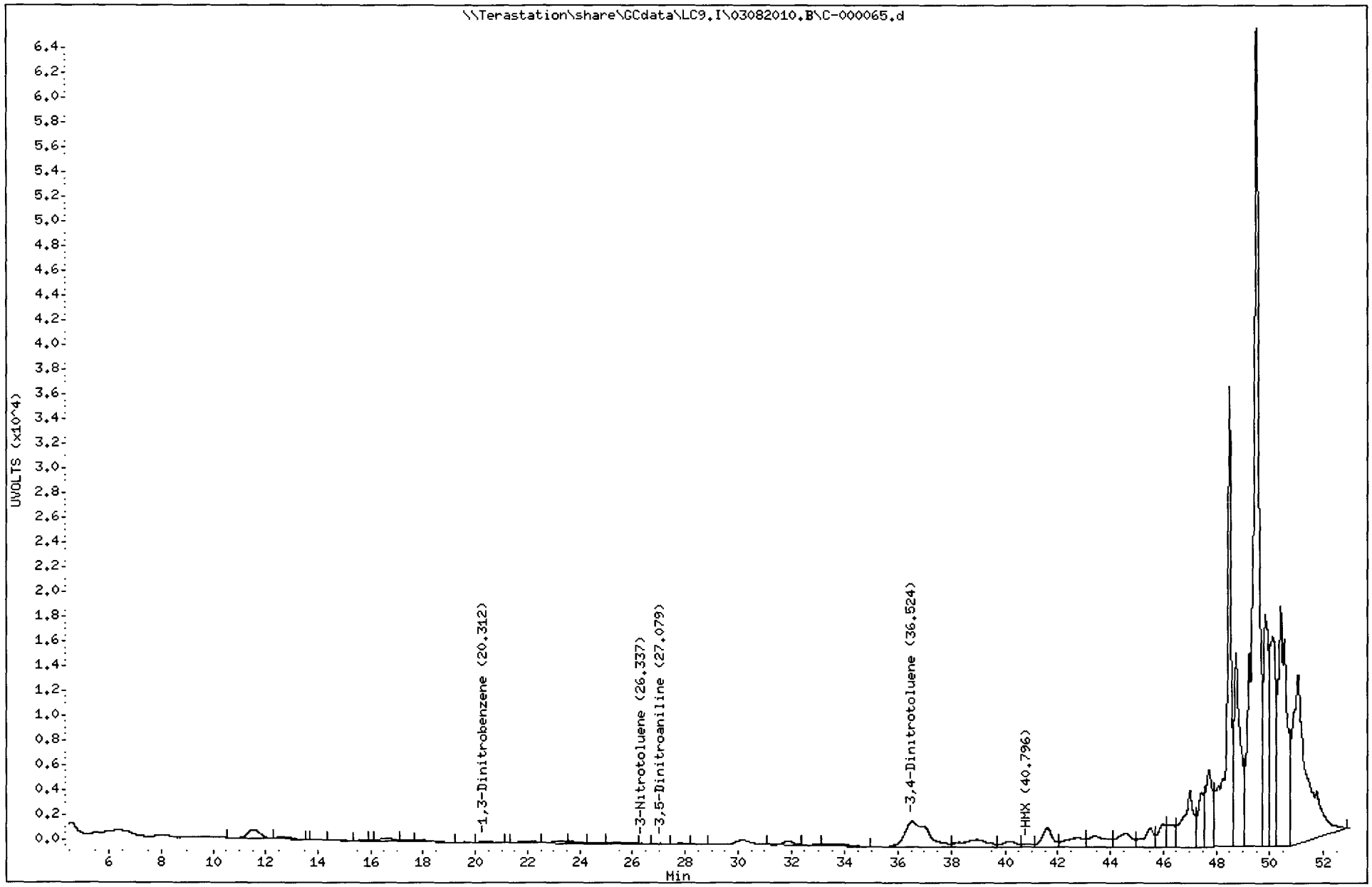
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
11.519	120031	720	0.006	0.33		
12.708	38447	231	0.006	0.10		
13.840	5043	33	0.007	0.01		
14.716	14587	94	0.006	0.04		
15.816	12052	136	0.011	0.06		
16.002	8399	135	0.016	0.06		
16.559	54354	252	0.005	0.11		
17.317	22265	157	0.007	0.07		
17.753	30629	135	0.004	0.06		
19.598	7245	53	0.007	0.02		
20.312	20226	83	0.004	0.03		10 1,3-Dinitrobenzene
21.959	38540	181	0.005	0.08		
23.106	35071	151	0.004	0.06		
23.617	23004	130	0.006	0.05		
24.546	20324	122	0.006	0.05		
25.302	31248	109	0.003	0.04		
26.337	6194	62	0.010	0.02		22 3-Nitrotoluene
27.079	12020	83	0.007	0.03		11 3,5-Dinitroaniline
27.767	13918	84	0.006	0.03		
28.487	8415	71	0.008	0.03		
31.900	37832	302	0.008	0.13		
32.938	5805	75	0.013	0.03		
33.617	43385	121	0.003	0.05		
36.524	650442	2068	0.003	0.94	$	1 3,4-Dinitrotoluene

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
38.972	216615	631	0.003	0.28	
40.173	86678	467	0.005	0.21	
40.796	38806	266	0.007	0.12	4 HMX
41.601	222089	1543	0.007	0.70	
42.821	193226	735	0.004	0.33	
43.423	224132	893	0.004	0.40	
44.595	220697	1140	0.005	0.52	
45.512	218468	1533	0.007	0.70	
45.984	170498	1848	0.011	0.84	
46.323	190866	1819	0.010	0.83	
47.013	640123	4532	0.007	2.07	
47.462	312614	4420	0.014	2.02	
47.734	580833	6239	0.011	2.86	
48.497	2113873	37022	0.018	16.97	
48.749	1302557	15485	0.012	7.09	
49.504	4871776	65773	0.014	30.39	
49.844	1172183	18627	0.016	8.54	
50.106	1399172	16785	0.012	7.69	
50.413	2059925	19248	0.009	8.82	
51.048	2611862	13518	0.005	6.19	
	20106470	218112		100.000	

Total unknown % height = 98.86

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000065.d
Date : 11-MAR-2010 12:24
Client ID:
Sample Info: LV3LA1AF 0065052 A0B250463-14;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.1
Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000065.d\C-000065.
Lab Smp Id: LV3LA1AF 0065052 A0
Inj Date : 11-MAR-2010 12:24
Operator : NS Inst ID: LC9.i
Smp Info : LV3LA1AF 0065052 A0B250463-14;0
Misc Info : ;;;10.06;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 11:13 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 66
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307FK

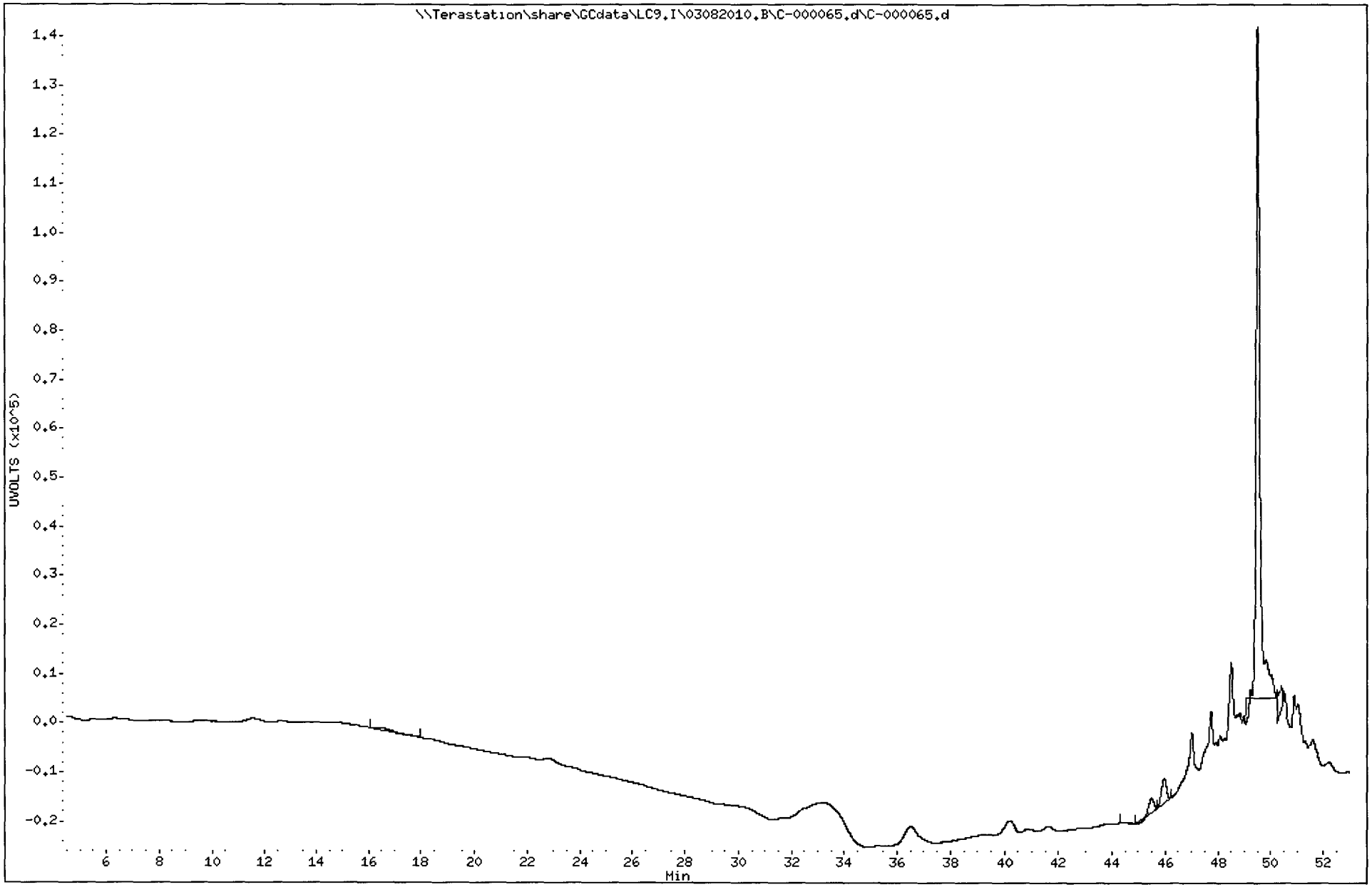
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.060	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
16.427	73846	287	0.004	0.19	
44.511	26955	256	0.009	0.17	
45.501	154190	2853	0.019	1.92	
45.960	313302	4902	0.016	3.30	
49.503	6694711	135782	0.020	91.44	
50.402	335815	4430	0.013	2.98	
	7598820	148510		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000065.d\C-000065.d
Date : 11-MAR-2010 12:24
Client ID:
Instrument: LC9.i
Sample Info: LV3LA1AF 0065052 A0B250463-14;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

C-000066.D

Chromatography Summary

Injection Date: 3/11/2010 13 30 **Operator:** NS

DataFile: LC9 I\03082010 B\C-000066 D **Vial Num:** 67

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LV3LC1AN 0065052 A0B250463-15**

Method File: LC9 I\03082010 B\8330METCNAB.M

Start Cal Date: 3/3/2010 19 39 **End Cal Date:** 3/4/2010 3 18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	10 g

Matrix: SOIL **SubList:** SOLIDBQSM.sub **SpikeList:**

Samp. Info: LV3LC1AN 0065052 A0B250463-15,0

Misc. Info: ,,,10 00,80,2,SOLIDBQSM sub,,0:1,

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.53**	**-0.056**	**2084**	**535.8000<**							**0.0000**	**0.00**	**45**
HMX	40 79	-0 126	79	16 1600<							12 1000	250.00	45
RDX	27 77	-0 208	54	12 4600<							12.0000	250.00	45
Picric ACID											100 0000	1000 00	
1,3,5-Trinitrobenzene											10 0000	250.00	
1,3-Dinitrobenzene	20.35	-0 019	66	6 6200<							4 2000	250.00	45
TETRYL											10 0000	250.00	
Nitrobenzene	17.83	-0 177	151	31 5100<							17 6000	250 00	45
2,4,6-Trinitrotoluene											19 4000	250 00	
4-AM-2,6-DNT											10 0000	250 00	
2-AM-4,6-DNT											12.5000	300 00	
2,6-Dinitrotoluene											7 3000	250 00	
2,4-Dinitrotoluene	29 31	-0.116	51	6 7520<							5 3000	250 00	45
2-Nitrotoluene	25.79	0 156	38	17.1300							13 0000	250 00	45
4-Nitrotoluene											18 2000	500 00	
3-Nitrotoluene											15.5000	250.00	
Nitroglycerin											15.0000	500 00	
PETN											25 0000	500 00	
3,5-Dinitroaniline											8 8000	1300 00	

> not conf.

> not conf.

m 3/11/10

> not conf

Surrogates:	**Spiked**	**Recovered**	**% Rec**	**Spiked**	**Recovered**	**% Rec**	**Limits**
3,4-Dinitrotoluene	**500.0000**	**535.8000**	**107**	**500.0000**		**0**	**(81-127)**

Notes

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/11/2010 4:44 PM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000066.D
Lab Smp Id: LV3LC1AN 0065052 A0
Inj Date : 11-MAR-2010 13:30
Operator : NS Inst ID: LC9.i
Smp Info : LV3LC1AN 0065052 A0B250463-15;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 11:13 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 67
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

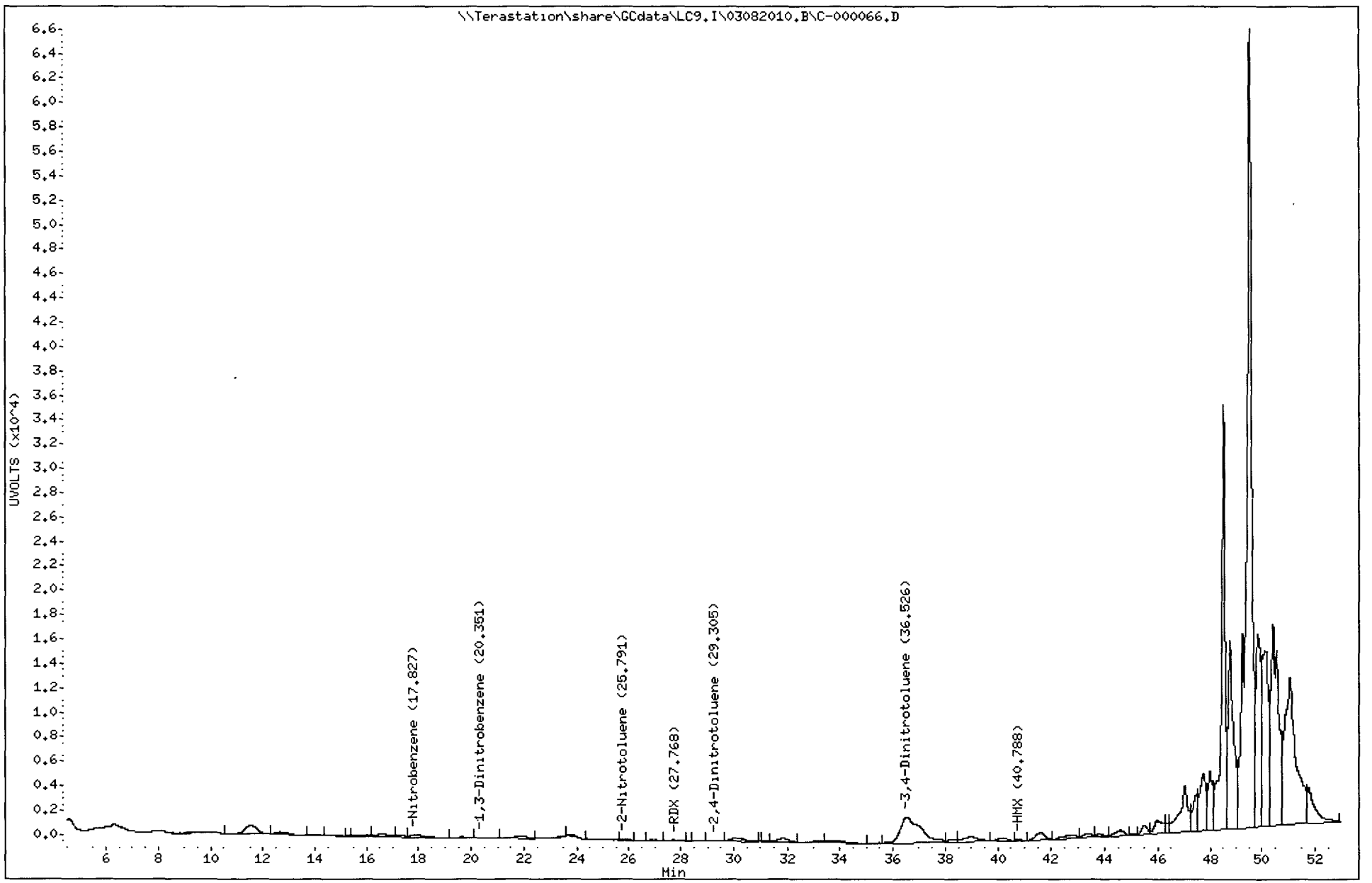
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
11.534	110572	662	0.006	0.32		
12.651	37349	221	0.006	0.10		
13.883	6798	40	0.006	0.01		
14.659	12453	79	0.006	0.03		
15.878	19558	117	0.006	0.05		
16.569	43316	230	0.005	0.11		
17.231	19744	155	0.008	0.07		
17.827	35693	151	0.004	0.07		13 Nitrobenzene
19.603	13328	86	0.006	0.04		
20.351	13064	66	0.005	0.03		10 1,3-Dinitrobenzene
21.914	30676	204	0.007	0.10		
23.797	7615	116	0.015	0.05		
25.791	2576	38	0.015	0.01		20 2-Nitrotoluene
27.018	6104	45	0.007	0.02		
27.768	8309	54	0.006	0.02		7 RDX
28.443	4509	38	0.008	0.01		
29.305	5766	51	0.009	0.02		19 2,4-Dinitrotoluene
30.121	56030	298	0.005	0.14		
31.075	2532	49	0.019	0.02		
31.840	40822	271	0.007	0.13		
33.078	12829	74	0.006	0.03		
33.842	42116	158	0.004	0.07		
36.526	564095	2084	0.004	1.02	$	1 3,4-Dinitrotoluene
38.288	26984	234	0.009	0.11		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
38.968	84129	388	0.005	0.19	
40.208	37383	290	0.008	0.14	
40.788	6511	79	0.012	0.03	4 HMX
41.606	70251	580	0.008	0.28	
42.749	46920	237	0.005	0.11	
43.421	36575	286	0.008	0.14	
43.819	24115	192	0.008	0.09	
44.601	55017	425	0.008	0.20	
45.070	4543	105	0.023	0.05	
45.511	56847	736	0.013	0.36	
45.996	115307	1035	0.009	0.50	
46.350	47105	830	0.018	0.40	
47.019	424505	3733	0.009	1.83	
47.463	189054	2973	0.016	1.45	
47.733	384138	4623	0.012	2.26	
47.999	316641	4862	0.015	2.38	
48.504	1653043	34750	0.021	17.04	
48.758	1143552	15338	0.013	7.52	
49.509	4662551	65394	0.014	32.32	
49.845	1025895	15729	0.015	7.71	
50.121	1140543	14270	0.013	6.99	
50.416	1738444	16489	0.009	8.08	
51.054	1755779	12037	0.007	5.90	
51.766	296334	2966	0.010	1.45	
	16438019	203868		100.000	

Total unknown % height = 98.80

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000066.D
Date : 11-MAR-2010 13:30
Client ID:
Instrument: LC9.i
Sample Info: LV3LC1AN 0065052 A0B250463-15;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000066.D\C-000066.
Lab Smp Id: LV3LC1AN 0065052 A0
Inj Date : 11-MAR-2010 13:30
Operator : NS Inst ID: LC9.i
Smp Info : LV3LC1AN 0065052 A0B250463-15;0
Misc Info : ;;;10.00;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 11:13 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 67
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

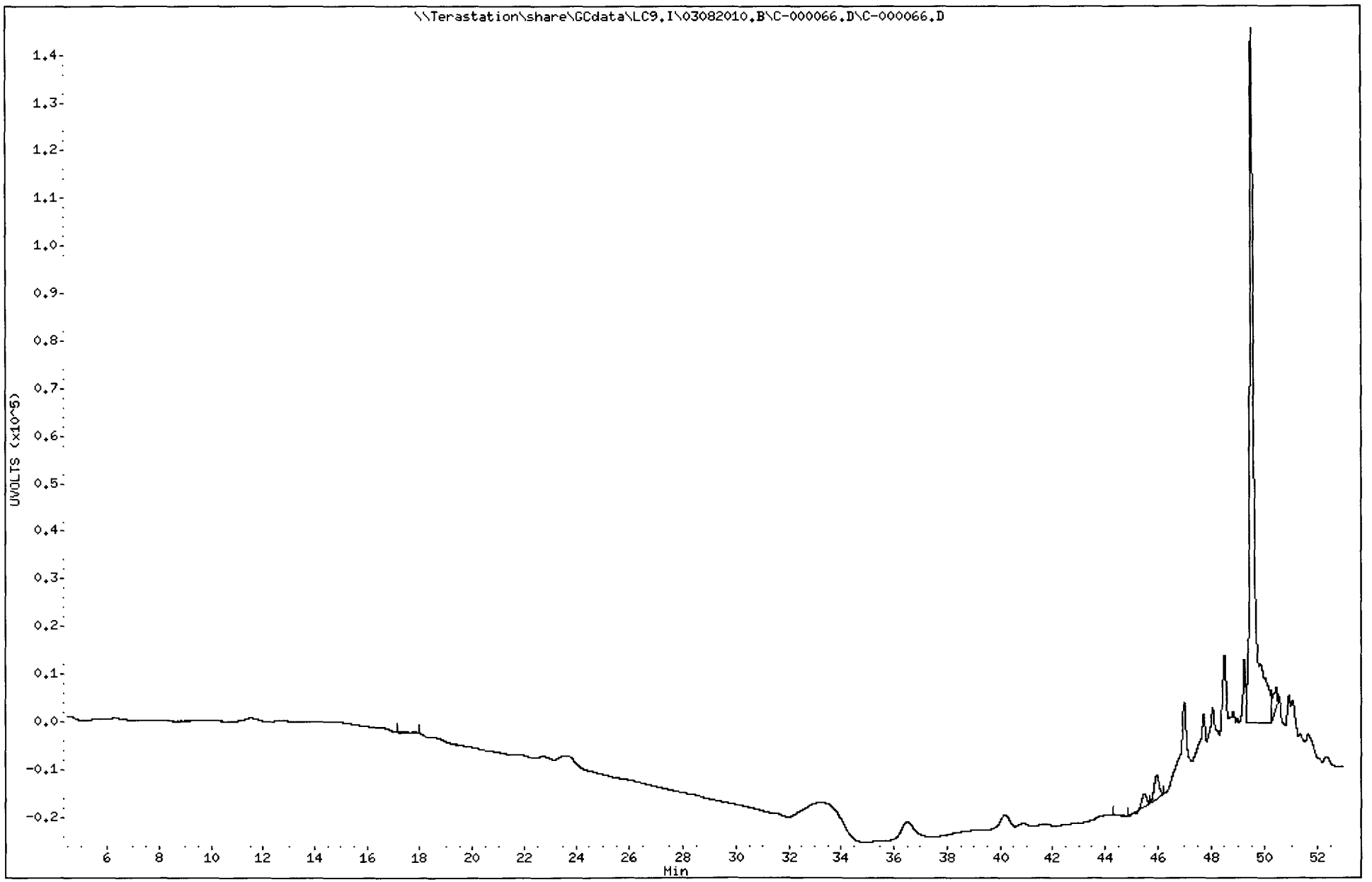
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
17.788	7547	229	0.030	0.14	
44.487	19696	190	0.010	0.12	
45.501	137011	2514	0.018	1.58	
45.966	322746	4957	0.015	3.13	
49.509	8432519	145360	0.017	91.95	
50.410	328575	4883	0.015	3.08	
	9248094	158133		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000066.D\C-000066.D
Date : 11-MAR-2010 13:30
Client ID:
Sample Info: LV3LC1AN 0065052 A0B250463-15;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



2351

North Canton

TestAmerica West Sacramento

C-000068.D

Chromatography Summary

Injection Date: 3/11/2010 15.41 **Operator:** NS

DataFile: LC9 I\03082010 B\C-000068.D **Vial Num:** 69

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **LV3LJ1A7 0065052 A0B250463-18**

Method File: LC9 I\03082010 B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3 18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	80 mL	0 mL	9.98 g

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3LJ1A7 0065052 A0B250463-18,0

Misc. Info: ;;;9 98;80,2;SOLIDBQSM sub,,0,1;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.51**	**0.007**	**1893**	**487.6000<**							**0.0000**	**0.00**	**45**
HMX											12 1242	251 00	
RDX	27.78	-0 164	121	27.9900<	not unf						12 0240	251 00	45
Picric ACID											100 2004	1004 01	
1,3,5-Trinitrobenzene											10 0200	251 00	
1,3-Dinitrobenzene											4 2084	251 00	
TETRYL											10 0200	251 00	
Nitrobenzene											17 6353	251 00	
2,4,6-Trinitrotoluene											19.4389	251 00	
4-AM-2,6-DNT											10 0200	251 00	
2-AM-4,6-DNT											12 5251	301 20	
2,6-Dinitrotoluene	30 93	0 228	90	19.4700<	not unf.						7 3146	251 00	45
2,4-Dinitrotoluene	29 31	-0 072	45	5.9700<							5 3106	251 00	45
2-Nitrotoluene											13 0261	251 00	
4-Nitrotoluene											18 2365	502 01	
3-Nitrotoluene											15 5311	251.00	
Nitroglycerin											15.0301	502.01	
PETN											25.0501	502.01	
3,5-Dinitroaniline											8 8176	1305 22	

m 3/12/10

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**501.0020**	**487.6000**	**97**	**501.0020**		**0**	**(81-127)**

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/12/2010 12:03 PM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000068.D
Lab Smp Id: LV3LJ1A7 0065052 A0
Inj Date : 11-MAR-2010 15:41
Operator : NS Inst ID: LC9.i
Smp Info : LV3LJ1A7 0065052 A0B250463-18;0
Misc Info : ;;;9.98;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 16:45 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 69
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

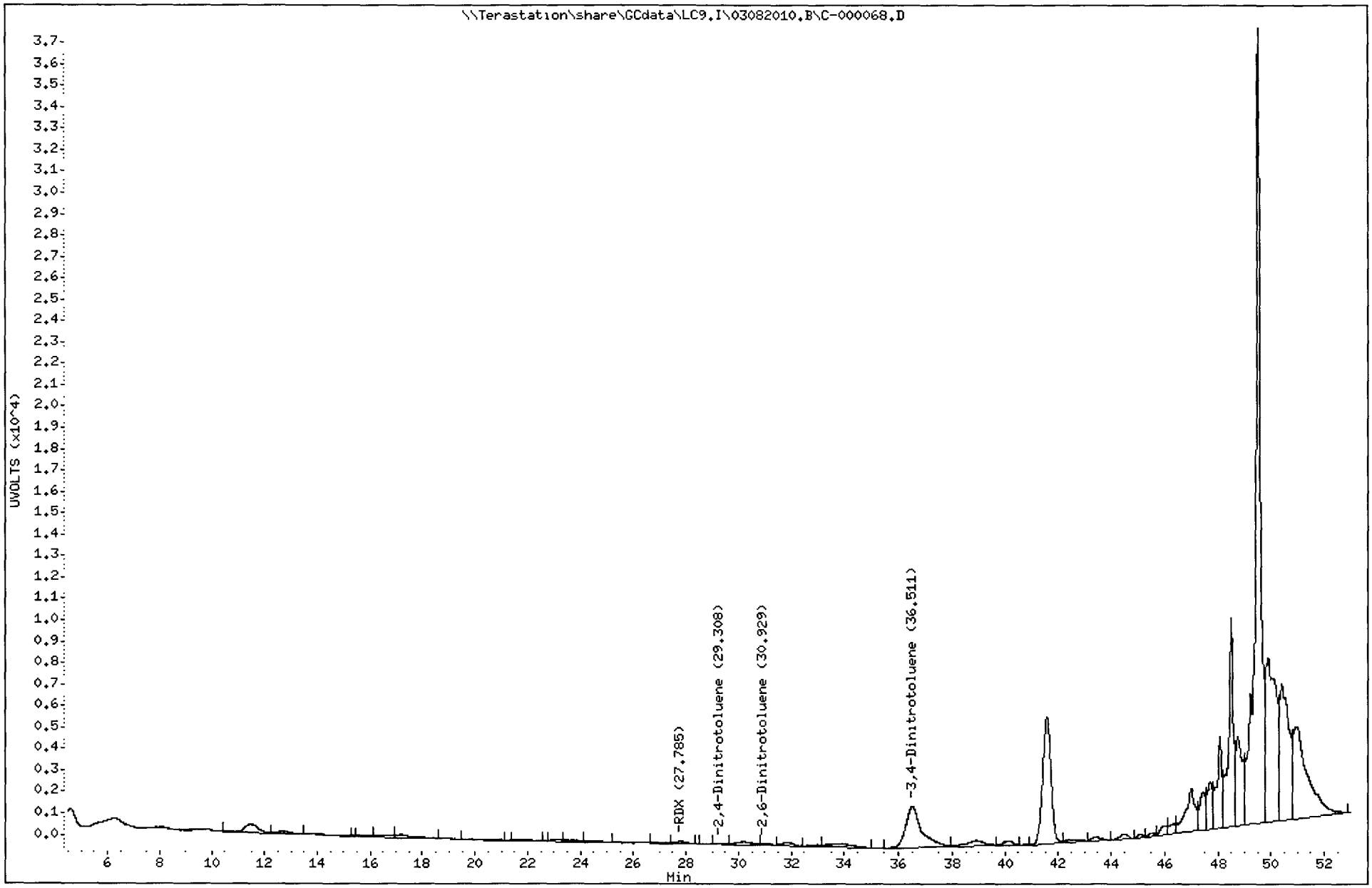
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.980	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
11.479	63305	368	0.006	0.40		
12.672	19845	107	0.005	0.11		
13.722	13033	49	0.004	0.05		
15.887	7910	61	0.008	0.06		
16.482	21999	109	0.005	0.11		
17.207	34351	147	0.004	0.16		
18.736	7004	52	0.007	0.05		
19.875	14642	48	0.003	0.05		
21.857	19145	98	0.005	0.10		
22.694	2619	41	0.016	0.04		
23.197	11143	84	0.008	0.09		
23.446	16418	81	0.005	0.08		
24.474	15766	93	0.006	0.10		
27.110	8893	53	0.006	0.05		
27.785	18266	121	0.007	0.13	7	RDX
28.560	4517	41	0.009	0.04		
29.308	6564	45	0.007	0.04	19	2,4-Dinitrotoluene
30.209	34835	166	0.005	0.18		
30.929	11886	90	0.008	0.09	18	2,6-Dinitrotoluene
31.817	21301	159	0.007	0.17		
32.987	8789	88	0.010	0.09		
33.962	49799	150	0.003	0.16		
36.511	392302	1893	0.005	2.06	$ 1	3,4-Dinitrotoluene
38.960	64942	258	0.004	0.28		

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
40.156	28896	220	0.008	0.24	
41.573	654829	5915	0.009	6.45	
42.578	25023	140	0.006	0.15	
43.398	23167	181	0.008	0.19	
44.540	27561	203	0.007	0.22	
45.107	12534	170	0.014	0.18	
45.531	13418	176	0.013	0.19	
45.977	36951	434	0.012	0.47	
46.346	40433	470	0.012	0.51	
47.005	254747	2024	0.008	2.20	
47.454	129932	1765	0.014	1.92	
47.718	158904	2204	0.014	2.40	
48.075	273708	4263	0.016	4.65	
48.495	644908	9698	0.015	10.58	
48.750	348882	4155	0.012	4.53	
49.512	2478117	37052	0.015	40.65	
49.894	1046992	7556	0.007	8.24	
50.406	800722	6312	0.008	6.88	
50.971	845837	4277	0.005	4.66	
	8714833	91617		100.000	

Total unknown % height = 97.68

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000068.D
Date : 11-MAR-2010 15:41
Client ID:
Instrument: LC9.i
Sample Info: LV3LJ1A7 0065052 A0B250463-18:0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000068.D\C-000068.
Lab Smp Id: LV3LJ1A7 0065052 A0
Inj Date : 11-MAR-2010 15:41
Operator : NS Inst ID: LC9.i
Smp Info : LV3LJ1A7 0065052 A0B250463-18;0
Misc Info : ;;;9.98;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 11:13 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 69
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

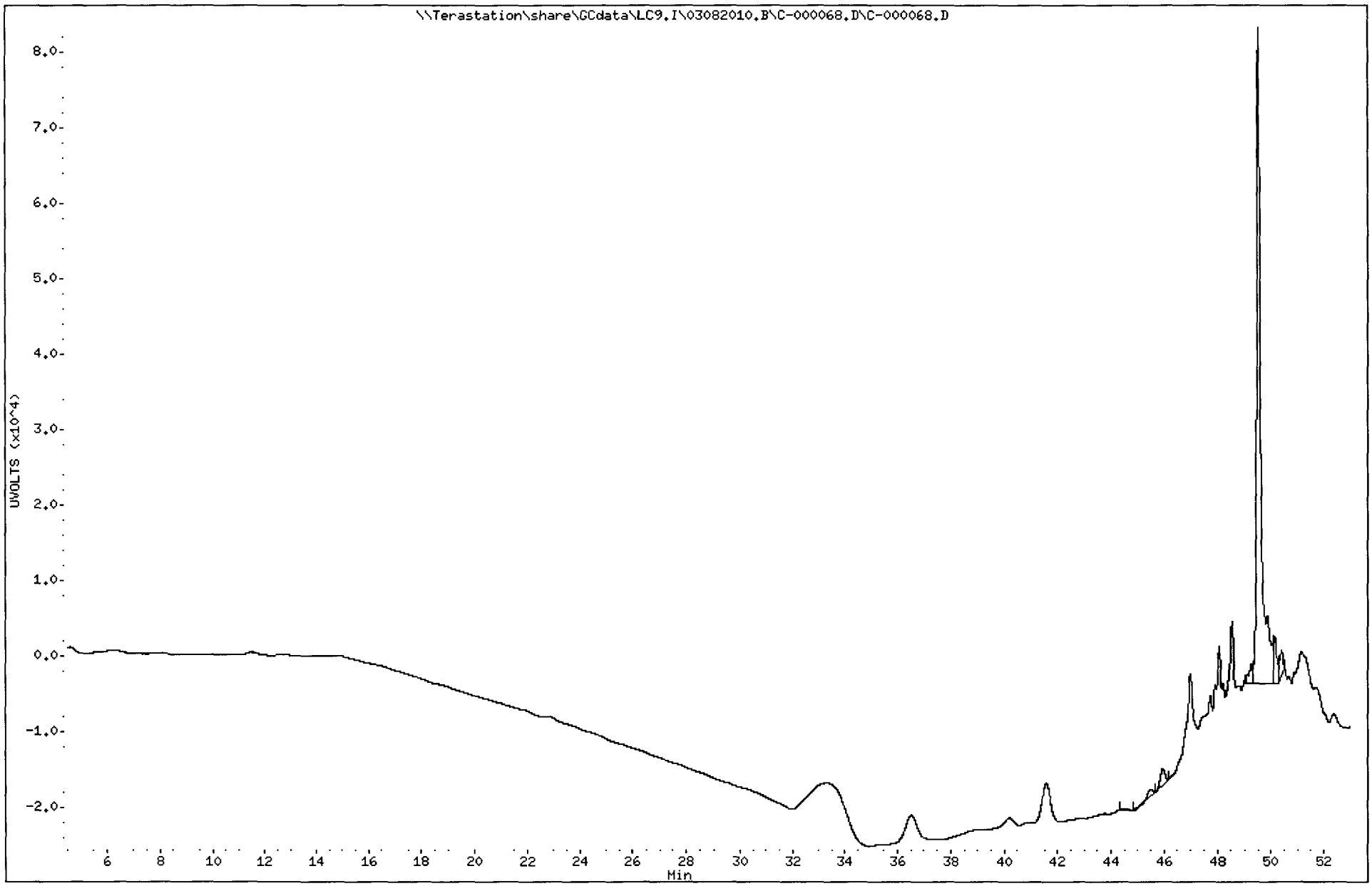
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	9.980	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.433	13978	132	0.009	0.12	
45.495	52195	909	0.017	0.88	
45.955	121229	2005	0.017	1.96	
49.233	118497	2637	0.022	2.57	
49.512	4610400	86976	0.019	85.09	
50.147	328071	6274	0.019	6.13	
50.403	186737	3326	0.018	3.25	
	5431105	102259		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000068.D\C-000068.D
Date : 11-MAR-2010 15:41
Client ID:
Instrument: LC9.i
Sample Info: LV3LJ1A7 0065052 A0B250463-18;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

C-000069.D

Chromatography Summary

Injection Date: 3/11/2010 16.47 **Operator:** NS

DataFile: LC9 I\03082010 B\C-000069 D **Vial Num:** 70

Method 8330 Target Analyte Results

Instrument ID: LC9

Sample : **LV3LM1DM 0065052 A0B250463-20**

Method File: LC9 I\03082010 B\8330METCNAB.M

Start Cal Date: 3/3/2010 19.39 **End Cal Date:** 3/4/2010 3 18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	**80 mL**	**0 mL**	**10.03 g**

Matrix: SOIL **SubList:** SOLIDBQSM sub **SpikeList:**

Samp. Info: LV3LM1DM 0065052 A0B250463-20,0

Misc. Info: ;;,10.03,80;2,SOLIDBQSM sub,,0;1,

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)							
Compound Name	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**RT**	**Diff**	**Response**	**Conc (ug/Kg)**	**Flag**	**MDL**	**RL**	**Flag**
3,4-Dinitrotoluene	**36.50**	**-0.004**	**1959**	**502.1000<**							**0.0000**	**0.00**	**45**
HMX	40 90	0.028	181	36 9200<							12 0638	248 51	45
RDX											11.9641	248 51	
Picric ACID											99 7009	994 03	
1,3,5-Trinitrobenzene											9 9701	248.51	
1,3-Dinitrobenzene	20 28	-0 106	43	4 3070<							4 1874	248.51	45
TETRYL											9 9701	248 51	
Nitrobenzene											17 5474	248 51	
2,4,6-Trinitrotoluene											19 3420	248 51	
4-AM-2,6-DNT											9 9701	248 51	
2-AM-4,6-DNT											12 4626	298.21	
2,6-Dinitrotoluene											7 2782	248 51	
2,4-Dinitrotoluene	29 23	-0 154	44	5.8080<							5 2841	248 51	45
2-Nitrotoluene	25 78	0 150	36	16 1800							12.9611	248.51	45
4-Nitrotoluene											18 1456	497 01	
3-Nitrotoluene											15 4536	248 51	
Nitroglycerin											14.9551	497 01	
PETN											24 9252	497 01	
3,5-Dinitroaniline	27.20	0.036	64	9.3140							8 7737	1292 23	45

Surrogates:	**Spiked**	**Recovered**	**%Rec**	**Spiked**	**Recovered**	**%Rec**	**Limits**
3,4-Dinitrotoluene	**498.5045**	**502.1000**	**101**	**498.5045**		**0**	**(81-127)**

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/12/2010 12:10 PM

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000069.D
Lab Smp Id: LV3LM1DM 0065052 A0
Inj Date : 11-MAR-2010 16:47
Operator : NS Inst ID: LC9.i
Smp Info : LV3LM1DM 0065052 A0B250463-20;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 16:45 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 70
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

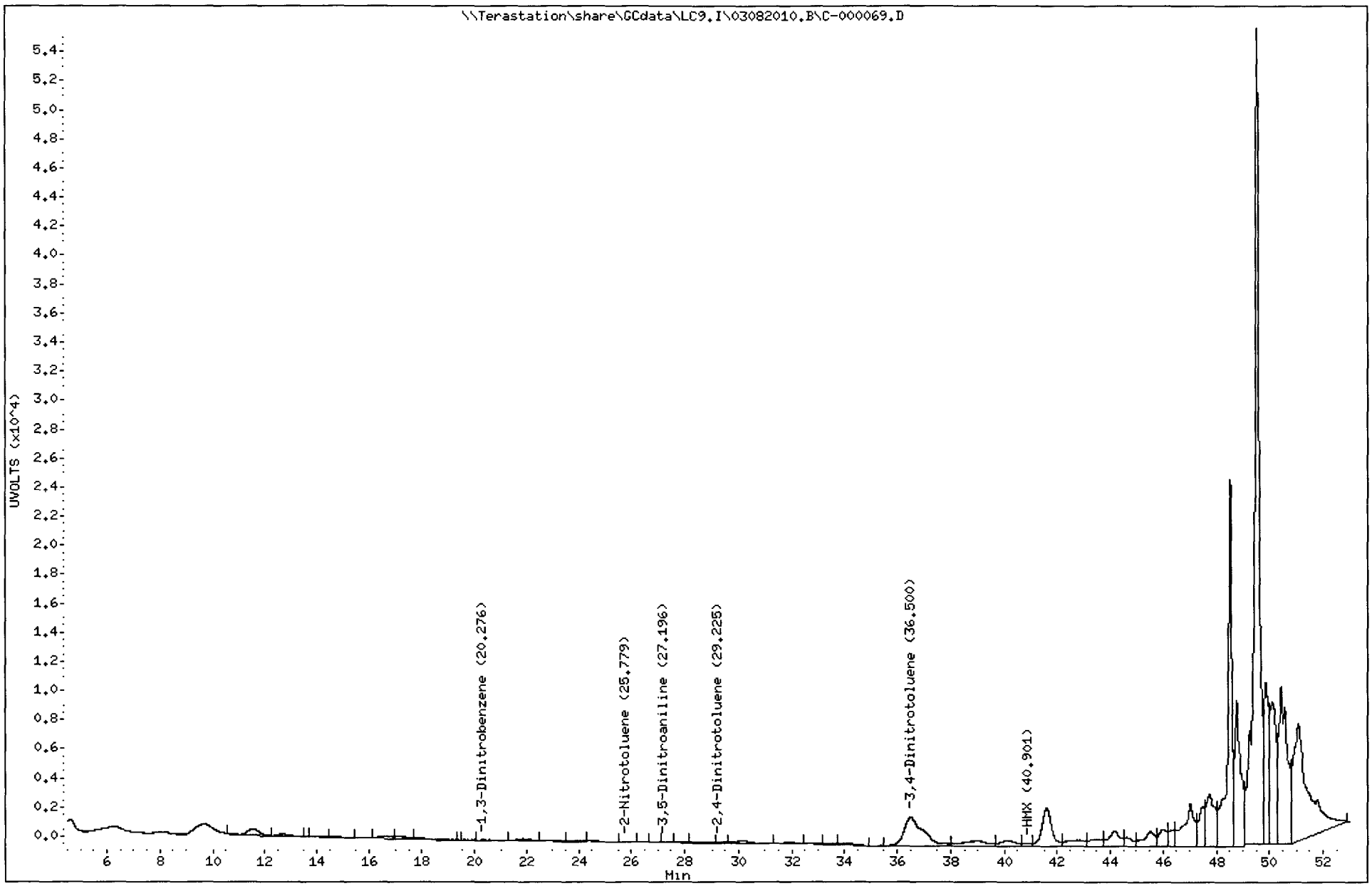
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
11.535	54792	387	0.007	0.25	
12.701	23652	154	0.007	0.10	
13.881	5653	40	0.007	0.02	
14.737	7798	50	0.006	0.03	
15.794	10234	65	0.006	0.04	
16.619	27913	151	0.005	0.09	
17.136	25718	146	0.006	0.09	
17.735	17102	84	0.005	0.05	
19.577	4014	36	0.009	0.02	
20.276	10181	43	0.004	0.02	10 1,3-Dinitrobenzene
21.873	27783	168	0.006	0.10	
23.211	18204	87	0.005	0.05	
23.752	14603	82	0.006	0.05	
25.779	5451	36	0.007	0.02	20 2-Nitrotoluene
26.226	3762	33	0.009	0.02	
27.010	5762	56	0.010	0.03	
27.196	6613	64	0.010	0.04	11 3,5-Dinitroaniline
27.676	7879	61	0.008	0.03	
28.285	9341	43	0.005	0.02	
29.225	5205	44	0.008	0.02	19 2,4-Dinitrotoluene
30.137	38387	183	0.005	0.11	
31.896	14840	132	0.009	0.08	
32.980	8693	83	0.010	0.05	
33.565	18539	129	0.007	0.08	

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
33.833	28631	144	0.005	0.09	
36.500	496038	1959	0.004	1.27	$ 1 3,4-Dinitrotoluene
39.027	119853	350	0.003	0.22	
40.098	79048	378	0.005	0.24	
40.901	20945	181	0.009	0.11	4 HMX
41.595	341102	2604	0.008	1.69	
42.823	102904	411	0.004	0.26	
43.419	79820	481	0.006	0.31	
44.155	156451	1006	0.006	0.65	
44.622	71040	612	0.009	0.39	
45.524	151355	1021	0.007	0.66	
45.990	122518	1147	0.009	0.74	
46.345	94986	1108	0.012	0.72	
47.018	409012	2872	0.007	1.87	
47.473	191008	2724	0.014	1.77	
47.740	433817	3542	0.008	2.31	
48.510	1358350	24973	0.018	16.29	
48.765	798515	9966	0.012	6.50	
49.524	3510657	56028	0.016	36.80	
49.856	695276	11018	0.016	7.18	
50.098	782029	9711	0.012	6.33	
50.433	1203660	10700	0.009	6.98	
51.075	1635830	7994	0.005	5.21	
	13254968	153287		100.000	

Total unknown % height = 98.52

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000069.D
Date : 11-MAR-2010 16:47
Client ID:
Sample Info: LV3LM1DM 0065052 A0B250463-20;0
Volume Injected (uL): 500.0
Column phase: Agilent ZorbaxCyano

Instrument: LC9.i
Operator: NS
Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000069.D\C-000069.
Lab Smp Id: LV3LM1DM 0065052 A0
Inj Date : 11-MAR-2010 16:47
Operator : NS Inst ID: LC9.i
Smp Info : LV3LM1DM 0065052 A0B250463-20;0
Misc Info : ;;;10.03;80;2;SOLIDBQSM.sub;;0;1;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 11:13 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 70
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SOLIDBQSM.sub
Target Version: 4.14
Processing Host: SACP307WW

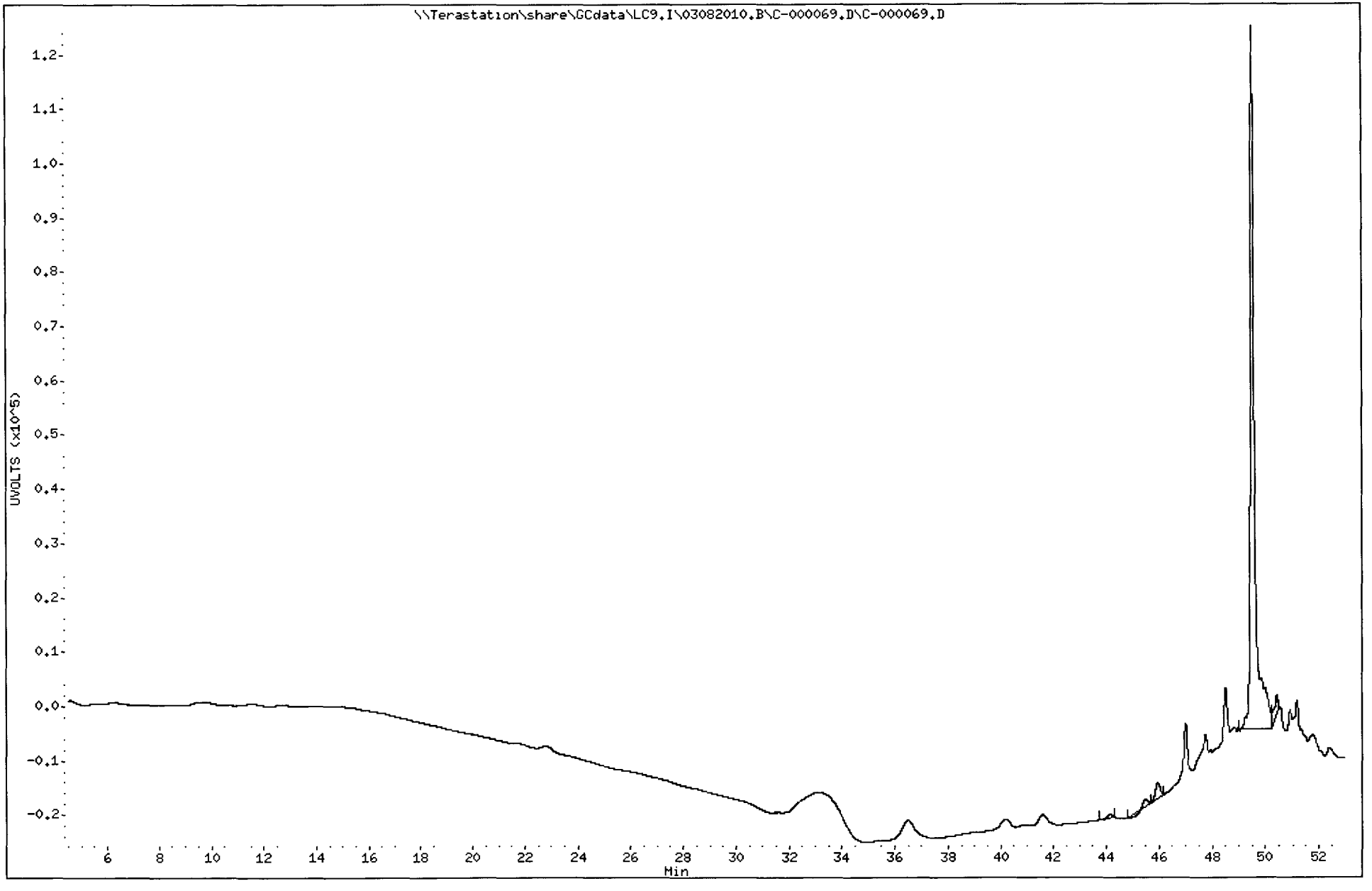
Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	80.000	Volume of final extract (mL)(1000 low, 2
Ws	10.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.163	37620	563	0.015	0.40	
45.520	30521	1451	0.048	1.05	
45.971	177489	2825	0.016	2.05	
49.524	7074558	129401	0.018	93.98	
50.439	207165	3472	0.017	2.52	
	7527353	137712		100.000	

Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000069.D\C-000069.D
Date : 11-MAR-2010 16:47
Client ID:
Instrument: LC9.i
Sample Info: LV3LM1DM 0065052 A0B250463-20;0
Volume Injected (uL): 500.0
Operator: NS
Column phase: Agilent ZorbaxCyano
Column diameter: 4.60



TestAmerica West Sacramento

C-000073.D

Chromatography Summary

Injection Date: 3/11/2010 21:09 **Operator:** NS

DataFile: LC9 B\03082010 B\C-000073.D **Vial Num:** 6

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **STD_05 10GCSV0072 8330 100-200ng/mL**

Method File: LC9 B\03082010 B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL sub **SpikeList:**

Samp. Info: STD_05 10GCSV0072 8330 100-200ng/mL,2

Misc. Info: ,6,,,,3,CAL sub,,0,0,

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	36.60	3210	103.2000<	100	3%	Acceptable					100	-100%	Fails		(±15)	45
HMX	40.93	3819	97.6500<	100	-2%	Acceptable					100	-100%	Fails		(±15)	45
RDX	28.03	3447	99.4600<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
Picric ACID				200	-100%	Fails					200	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22.28	5999	99.4000<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.46	8028	100.7000<	100	1%	Acceptable					100	-100%	Fails		(±15)	45
TETRYL	46.64	12782	92.1800<	100	-8%	Acceptable					100	-100%	Fails		(±15)	45
Nitrobenzene	18.09	3918	102.2000<	100	2%	Acceptable					100	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	37.90	4511	95.4000<	100	-5%	Acceptable					100	-100%	Fails		(±15)	45
4-AM-2,6-DNT	33.87	4696	113.6000<	100	14%	Acceptable					100	-100%	Fails		(±15)	45
2-AM-4,6-DNT	33.11	6510	99.4600<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	30.79	3668	98.7200<	100	-1%	Acceptable					100	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.47	6074	100.5000<	100	1%	Acceptable					100	-100%	Fails		(±15)	45
2-Nitrotoluene	25.74	3548	199.9000	200	0%	Acceptable					200	-100%	Fails		(±15)	45
4-Nitrotoluene				200	-100%	Fails					200	-100%	Fails		(±15)	
3-Nitrotoluene	26.39	2557	99.7300<	100	0%	Acceptable					100	-100%	Fails		(±15)	45
Nitroglycerin				100	-100%	Fails		44.81	4822	99.9900	100	0%	Acceptable		(±15)	45
PETN				100	-100%	Fails		49.94	22002	99.7600<	100	0%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.24	5513	100.6000	100	1%	Acceptable					100	-100%	Fails		(±15)	45
EGDN				100	-100%	Fails					100	-100%	Fails		(±15)	

3/12/10

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000073.D
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 21:09
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.m
Meth Date : 11-Mar-2010 22:10 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

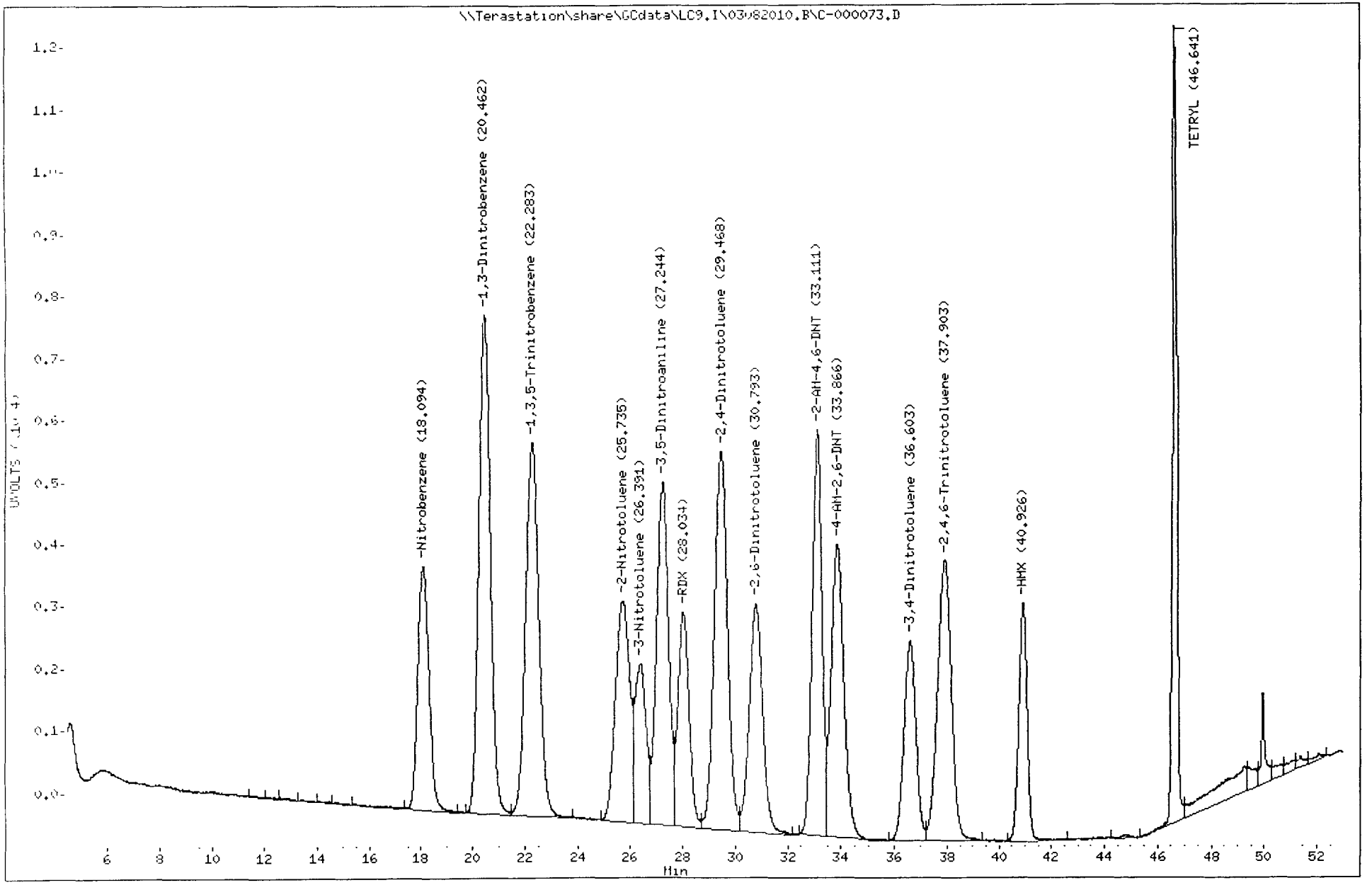
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
11.538	4077	28	0.007	0.03			
12.163	3221	40	0.012	0.04			
12.645	4668	34	0.007	0.04			
13.413	3217	27	0.008	0.03			
14.065	3114	25	0.008	0.03			
14.698	2935	17	0.006	0.02			
18.094	593088	3918	0.007	4.81		13	Nitrobenzene
20.462	1241859	8028	0.006	9.86		10	1,3-Dinitrobenzene
22.283	1033775	5999	0.006	7.37		9	1,3,5-Trinitrobenze
25.735	668752	3548	0.005	4.36		20	2-Nitrotoluene
26.391	379838	2557	0.007	3.14		22	3-Nitrotoluene
27.244	863669	5513	0.006	6.77		11	3,5-Dinitroaniline
28.034	517596	3447	0.007	4.23		7	RDX
29.468	1037020	6074	0.006	7.46		19	2,4-Dinitrotoluene
30.793	656415	3668	0.006	4.50		18	2,6-Dinitrotoluene
33.111	853973	6510	0.008	8.00		17	2-AM-4,6-DNT
33.866	753280	4696	0.006	5.77		16	4-AM-2,6-DNT
36.603	491203	3210	0.007	3.94	$	1	3,4-Dinitrotoluene
37.903	853983	4511	0.005	5.54		15	2,4,6-Trinitrotolue
40.926	425495	3819	0.009	4.69		4	HMX
44.830	6839	49	0.007	0.06			
46.641	682295	12782	0.019	15.83		12	TETRYL
49.272	186208	412	0.002	0.50			
49.420	38974	364	0.009	0.44			
49.962	74587	1451	0.019	1.78			
50.653	25302	181	0.007	0.22			
51.151	22192	167	0.008	0.20			
51.408	15488	184	0.012	0.22			
52.100	10480	100	0.010	0.12			
	11453543	81359		100.000			

Total unknown % height = 3.730

Data File: \\Terastation\share\GCdata\LC9.I\03082010.B\C-000073.D
Date : 11-MAR-2010 21:09
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03082010.B\C-000073.D\C-000073.
Lab Smp Id: STD_05 10GCSV0072 8
Inj Date : 11-MAR-2010 21:09
Operator : NS Inst ID: LC9.i
Smp Info : STD_05 10GCSV0072 8330 100-200ng/mL;2
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03082010.B\8330METCNAB.M\8330CN
Meth Date : 11-Mar-2010 22:10 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307WW

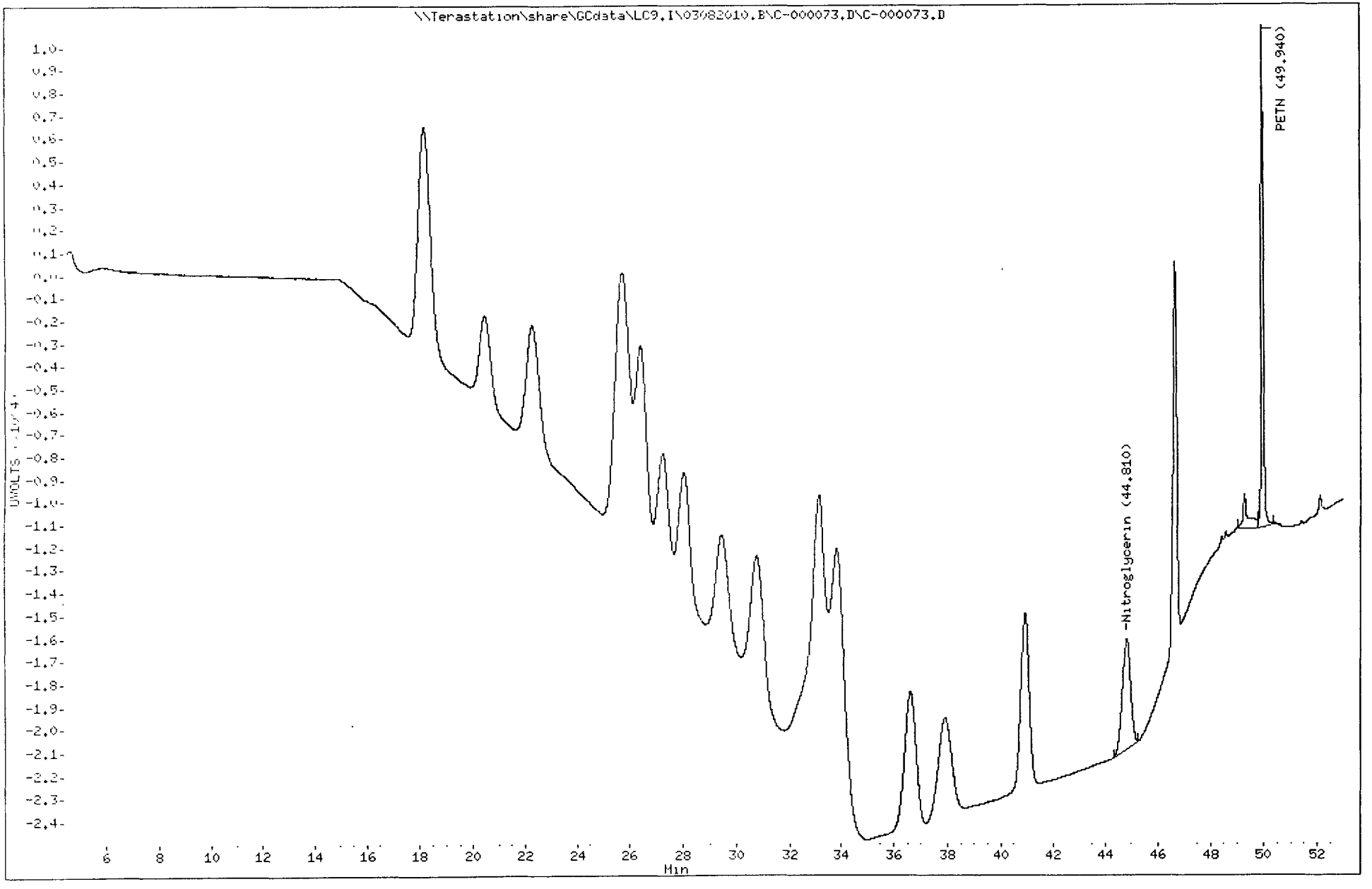
RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.810	531531	4822	0.009	17.04	14 Nitroglycerin
49.271	96422	1465	0.015	5.17	
49.940	602942	22002	0.036	77.79	23 PETN
	1230895	28289		100.000	

Total unknown % height = 5.170

Data File: \\Terastation\share\GCdata\LC9,I\03082010,B\C-000073,D\C-000073,D
Date : 11-MAR-2010 21:09
Client ID:
Sample Info: STD_05 10GCSV0072 8330 100-200ng/mL;2

Instrument: LC9,1
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

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West Sacramento

GC/HPLC ICAL Checklist

Instrument ID: LC10-C18 ICAL ID: 03012010 Method: 8330

Analytes Included in curve (with dates): All 8330, PETN, NG, PA, 3,5-DNA

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	✓	✓	
2. ICAL Runlog included.	✓	✓	
3. ICV Included and moved to after summary.	✓	✓	
4. PEM meets requirements and is included for 8081.			✓
5. Alkane Marker included for 8015 TPH.			✓
6. ICAL Raw Data included for all analytes.	✓	✓	
B. ICAL Summary			
1. All analytes meet %RSD or linear regression requirements.	✓	✓	
2. ICAL meets requirements stated in SOP.	✓	✓	
2. Any levels dropped are reviewed and appropriate.			✓
3. All analytes in ICAL are in the ICAL summary.	✓	✓	
4. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			✓
2. All peaks correctly identified.	✓	✓	
3. No analytes have saturated peaks.	✓	✓	
4. RT windows set correctly (8015 TPH).			✓
5. ICV meets requirements and is run after the ICAL.	✓	✓	
6. Standards used in ICAL are current.	✓	✓	
7. ICAL is copied to source method.	✓	✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	✓		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	✓		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

Analyst: [signature] Date: 3/2/10

Reviewer: [signature] Date: 3/2/2010

Comments:

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000010.d
Level 2: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000011.d
Level 3: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000012.d
Level 4: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000013.d
Level 5: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000014.d
Level 6: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000015.d
Level 7: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000016.d
Level 8: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000017.d

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
2 HMX	150	144	137	136	130	130		
	125	114					133	8.430
3 RDX	98.40000	96.90000	95.65000	95.78000	91.10000	91.75000		
	83.22800	69.00900					90.22713	10.874
4 EGDN	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++ <-
5 Picric ACID	+++++	+++++	107	91.68000	91.42000	85.79200		
	80.00700	70.21200					87.65517	14.101
6 1,3,5-Trinitrobenzene	170	172	165	167	160	161		
	153	138					161	6.707
7 1,3-Dinitrobenzene	171	170	162	163	156	157		
	147	129					157	8.628
8 3,5-Dinitroaniline	118	110	106	106	101	102		
	96.54200	83.80300					103	9.691
9 TETRYL	94.40000	91.20000	87.95000	88.16000	81.37000	90.93500		
	85.72000	82.69800					87.80413	5.035

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
10 Nitrobenzene	73.00000	79.70000	78.15000	76.92000	73.47000	74.08000		
	71.93800	65.00400					74.03275	6.141
11 Nitroglycerin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
12 2,4,6-Trinitrotoluene	107	99	97.05000	96.38000	89.94000	94.25500		
	92.83000	87.75400					95.55113	6.238
13 4-AM-2,6-DNT	80.80000	76.30000	71.75000	71.44000	68.60000	68.61000		
	69.61400	63.16000					71.28425	7.482
14 2-AM-4,6-DNT	93.20000	87.20000	82.40000	81.42000	78.04000	78.31500		
	78.19200	70.54100					81.16350	8.362
15 2,6-Dinitrotoluene	65.20000	58.90000	57.15000	56.30000	54.15000	54.21000		
	55.58400	51.55900					56.63163	7.244
16 2,4-Dinitrotoluene	103	96.20000	92.70000	92.60000	88.51000	88.75500		
	90.03200	83.62600					91.87788	6.204
17 2-Nitrotoluene	42.40000	43.10000	42.80000	41.98000	39.96000	39.93000		
	39.15400	36.49600					40.72750	5.560
18 4-Nitrotoluene	48.20000	53.20000	51.25000	49.94000	47.60000	48.01000		
	47.15800	44.32700					48.71063	5.581
19 3-Nitrotoluene	50.20000	50.90000	49.30000	49.40000	46.86000	46.97000		
	46.56200	43.90000					48.01150	4.662
20 PETN	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
$ 1 3,4-Dinitrotoluene	+++++	52.30000	46.40000	46.32000	47.22000	46.38000		
	50.47667	48.46000					48.22238	4.871

Report Date: 02-Mar-2010 09:16

Calibration History

Method : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M
Start Cal Date: 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
01-MAR-2010 17:59	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d
Cal Level: 2 , Cal Amount: 10.00000		
01-MAR-2010 18:47	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d
Cal Level: 3 , Cal Amount: 20.00000		
01-MAR-2010 19:35	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d
Cal Level: 4 , Cal Amount: 50.00000		
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d
Cal Level: 5 , Cal Amount: 100.00000		
01-MAR-2010 21:12	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d
Cal Level: 6 , Cal Amount: 200.00000		
01-MAR-2010 22:01	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d
Cal Level: 7 , Cal Amount: 500.00000		
01-MAR-2010 22:49	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d
Cal Level: 8 , Cal Amount: 1000.00000		

01-MAR-2010 23:38	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d		

Continuing Calibration
Ccal Level Mode: BY SAMPLE

02-MAR-2010 02:03	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d		
02-MAR-2010 01:14	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d		
01-MAR-2010 21:12	CAL	
\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d		

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000010.d\A-00
Level 2: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000011.d\A-00
Level 3: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000012.d\A-00
Level 4: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000013.d\A-00
Level 5: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000014.d\A-00
Level 6: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000015.d\A-00
Level 7: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000016.d\A-00
Level 8: \\Terastation\share\GCdata\GCdata\LC10.I\03012010.B\A-000017.d\A-00

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
	500 000 Level 7	1000 000 Level 8							
2 HMX	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
3 RDX	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
4 EGDN	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
5 Picric ACID	+++++	+++++	154	135	134	127			
	118	104					129	13.252	
6 1,3,5-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
7 1,3-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
8 3,5-Dinitroaniline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	
9 TETRYL	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
10 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
11 Nitroglycerin	+++++	+++++	63.55000	63.44000	62.94000	63.83500		
	63.78800	58.64100					62.69900	3.212
12 2,4,6-Trinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
13 4-AM-2,6-DNT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
14 2-AM-4,6-DNT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
15 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
16 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
17 2-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
18 4-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
19 3-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
20 PETN	+++++	+++++	38.05000	30.62000	30.28000	30.55500	✓	✓
	30.73000	29.44300					31.61300	10.083

3/2/10 MLW

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\8330
Last Edit : 02-Mar-2010 09:15 shafern
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
$ 1 3,4-Dinitrotoluene	+++++	114	97.05000	94.88000	96.43000	95.07500		
	95.19000	90.92400					97.62129	7.577

Report Date: 02-Mar-2010 09:17

Calibration History

Method : \\Terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.M
Start Cal Date: 01-MAR-2010 17:59
End Cal Date : 01-MAR-2010 23:38
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
01-MAR-2010 17:59	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d\A-000010.d
Cal Level: 2 , Cal Amount: 10.00000		
01-MAR-2010 18:47	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011.d
Cal Level: 3 , Cal Amount: 20.00000		
01-MAR-2010 19:35	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012.d
Cal Level: 4 , Cal Amount: 50.00000		
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d
Cal Level: 5 , Cal Amount: 100.00000		
01-MAR-2010 21:12	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014.d
Cal Level: 6 , Cal Amount: 200.00000		
01-MAR-2010 22:01	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015.d
Cal Level: 7 , Cal Amount: 500.00000		
01-MAR-2010 22:49	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d\A-000016.d
Cal Level: 8 , Cal Amount: 1000.00000		

01-MAR-2010 23:38	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017.d

Continuing Calibration
Ccal Level Mode: BY SAMPLE

02-MAR-2010 02:03	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020.d
02-MAR-2010 01:14	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019.d
01-MAR-2010 20:24	CAL	\\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d

Calibration Standard Level Reference Sheet

8330, 8330A, 8330B

	Concentration (ppb)							
Analyte	Level 1	2	3	4	5	6	7	8
3,4-Dinitrotoluene (surr)		10	20	50	100	200	300	500
HMX	5	10	20	50	100	200	500	1000
MNX	5	10	20	50	100	200	500	1000
DNX	5	10	20	50	100	200	500	1000
TNX	5	10	20	50	100	200	500	1000
RDX	5	10	20	50	100	200	500	1000
1,3,5-Trinitrobenzene	5	10	20	50	100	200	500	1000
1,3-Dinitrotoluene	5	10	20	50	100	200	500	1000
3.5-Dinitroaniline	5	10	20	50	100	200	500	1000
TETRYL	5	10	20	50	100	200	500	1000
Nitrobenzene	5	10	20	50	100	200	500	1000
2,4,6-Trinitrotoluene	5	10	20	50	100	200	500	1000
4-Amino-2,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2-Amino-4,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2,6-Dinitrotoluene	5	10	20	50	100	200	500	1000
2,4-Dinitrotoluene	5	10	20	50	100	200	500	1000
2-Nitrotoluene	5	10	20	50	100	200	500	1000
4-Nitrotoluene	5	10	20	50	100	200	500	1000
3-Nitrotoluene	5	10	20	50	100	200	500	1000
Picric Acid			50	100	200	500	1000	2000
Nitroglycerin			20	50	100	200	500	1000
PETN			20	50	100	200	500	1000
EGDN			20	50	100	200	500	1000

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC10 Batch ID: 03012010
Method : Method 8330 Test : SOP SAC-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
01-MAR-2010	10:34	NS	8330 PRIMER	A-000001.	0 g	0 mL	1	
01-MAR-2010	11:23	NS	8330 PRIMER	A-000002.	0 g	0 mL	1	
01-MAR-2010	12:11	NS	8330 PRIMER	A-000003.	0 g	0 mL	1	
01-MAR-2010	12:59	NS	8330 PRIMER	A-000004.	0 g	0 mL	1	
01-MAR-2010	13:48	NS	8330 PRIMER	A-000005.	0 g	0 mL	1	
01-MAR-2010	14:36	NS	8330 PRIMER	A-000006.	0 g	0 mL	1	
01-MAR-2010	15:25	NS	8330 PRIMER	A-000007.	0 g	0 mL	1	
01-MAR-2010	16:13	NS	8330 PRIMER	A-000008.	0 g	0 mL	1	
01-MAR-2010	17:10	NS	BLANK	A-000009.	0 g	0 mL	1	
01-MAR-2010	17:59	NS	CS_01 10GCSV0046 8330 ICAL L1	A-000010.	0 g	0 mL	1	
01-MAR-2010	18:47	NS	CS_02 10GCSV0047 8330 ICAL L2	A-000011.	0 g	0 mL	1	
01-MAR-2010	19:35	NS	CS_03 10GCSV0048 8330 ICAL L3	A-000012.	0 g	0 mL	1	
01-MAR-2010	20:24	NS	CS_04 10GCSV0049 8330 ICAL L4	A-000013.	0 g	0 mL	1	
01-MAR-2010	21:12	NS	CS_05 10GCSV0072 8330 ICAL L5	A-000014.	0 g	0 mL	1	
01-MAR-2010	22:01	NS	CS_06 09GCSV0482 8330 ICAL L6	A-000015.	0 g	0 mL	1	
01-MAR-2010	22:49	NS	CS_07 10GCSV0050 8330 ICAL L7	A-000016.	0 g	0 mL	1	
01-MAR-2010	23:38	NS	CS_8 10GCSV0051 8330 ICAL L8 1	A-000017.	0 g	0 mL	1	
02-MAR-2010	00:26	NS	BLANK	A-000018.	0 g	0 mL	1	
02-MAR-2010	01:14	NS	ICV 10GCSV0058 8330 200ng/mL	A-000019.	0 g	0 mL	1	
02-MAR-2010	02:03	NS	MRL 10GCSV0074 8330 5-50ng/mL	A-000020.	0 g	0 mL	1	

TestAmerica West Sacramento

A-000019.D

Chromatography Summary

Injection Date: 3/2/2010 1:14 **Operator:** NS

DataFile: LC10.I\03012010 B\A-000019 D **Vial Num:** 69

Method 8330 Target Analyte Results

Instrument ID: LC10

Sample : **ICV 10GCSV0058 8330 200ng/mL**

Method File: LC10.I\03012010.B\8330AB M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: ICV 10GCSV0058 8330 200ng/mL;2

Misc. Info: ;6; ; ; ;3;CAL.sub; ;0,1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene				200	-100%	Fails	Not SPIKED				200	-100%	Fails		(±15)	
HMX	5.46	27851	209.1000<	200	5%	Acceptable					200	-100%	Fails		(±15)	45
RDX	8.04	18379	203.7000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
Picric ACID	9.24	41098	468.8000	500	-6%	Acceptable		9.24	60778	472.3000<	500	-6%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10.62	32359	201.1000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13.66	31650	201.6000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
TETRYL	15.16	18076	205.9000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
Nitrobenzene	15.52	15283	206.4000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.41	19055	199.4000<	200	0%	Acceptable					200	-100%	Fails		(±15)	45
4-AM-2,6-DNT	18.18	14153	198.5000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.31	16434	202.5000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	21.05	11129	196.5000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21.82	18425	200.5000<	200	0%	Acceptable					200	-100%	Fails		(±15)	45
2-Nitrotoluene	25.40	8259	202.8000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
4-Nitrotoluene	27.41	9936	204.0000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
3-Nitrotoluene	29.54	9806	204.2000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
Nitroglycerin				200	-100%	Fails		16.44	13921	222.0000<	200	11%	Acceptable		(±15)	45
PETN				200	-100%	Fails		33.13	6995	221.3000<	200	11%	Acceptable		(±15)	45
3,5-Dinitroaniline	14.56	20727	201.3000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
EGDN				200	-100%	Fails	MA				200	-100%	Fails		(±15)	

MR 3/2/10

ICV passes ± 15%.

MR 3/2/10

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:15 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d
Lab Smp Id: ICV 10GCSV0058 8330
Inj Date : 02-MAR-2010 01:14
Operator : NS Inst ID: LC10.i
Smp Info : ICV 10GCSV0058 8330 200ng/mL;2
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:14 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
4.897	101	40	0.394	0.01	
5.057	1419	213	0.150	0.06	
5.457	180264	27851	0.155	8.89	2 HMX
8.044	192820	18379	0.095	5.86	3 RDX
8.740	1385	166	0.120	0.05	
9.237	570439	41098	0.072	13.21	5 Picric ACID
10.617	413294	32359	0.078	10.33	6 1,3,5-Trinitrobenze
13.664	499482	31650	0.063	10.10	7 1,3-Dinitrobenzene
14.560	345098	20727	0.060	6.61	8 3,5-Dinitroaniline
15.164	289510	18076	0.062	5.77	9 TETRYL
15.520	268810	15283	0.057	4.87	10 Nitrobenzene
16.450	2076	138	0.066	0.04	
17.407	342027	19055	0.056	6.08	12 2,4,6-Trinitrotolue
18.180	275681	14153	0.051	4.51	13 4-AM-2,6-DNT
19.307	347563	16434	0.047	5.24	14 2-AM-4,6-DNT
21.047	227359	11129	0.049	3.55	15 2,6-Dinitrotoluene
21.824	403652	18425	0.046	5.88	16 2,4-Dinitrotoluene
25.404	217983	8259	0.038	2.63	17 2-Nitrotoluene
27.407	279772	9936	0.036	3.17	18 4-Nitrotoluene
29.540	298361	9806	0.033	3.13	19 3-Nitrotoluene
33.177	525	49	0.093	0.01	
	5157621	313226		100.000	

Total unknown % height = 0.1700

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d

Date : 02-MAR-2010 01:14

Client ID:

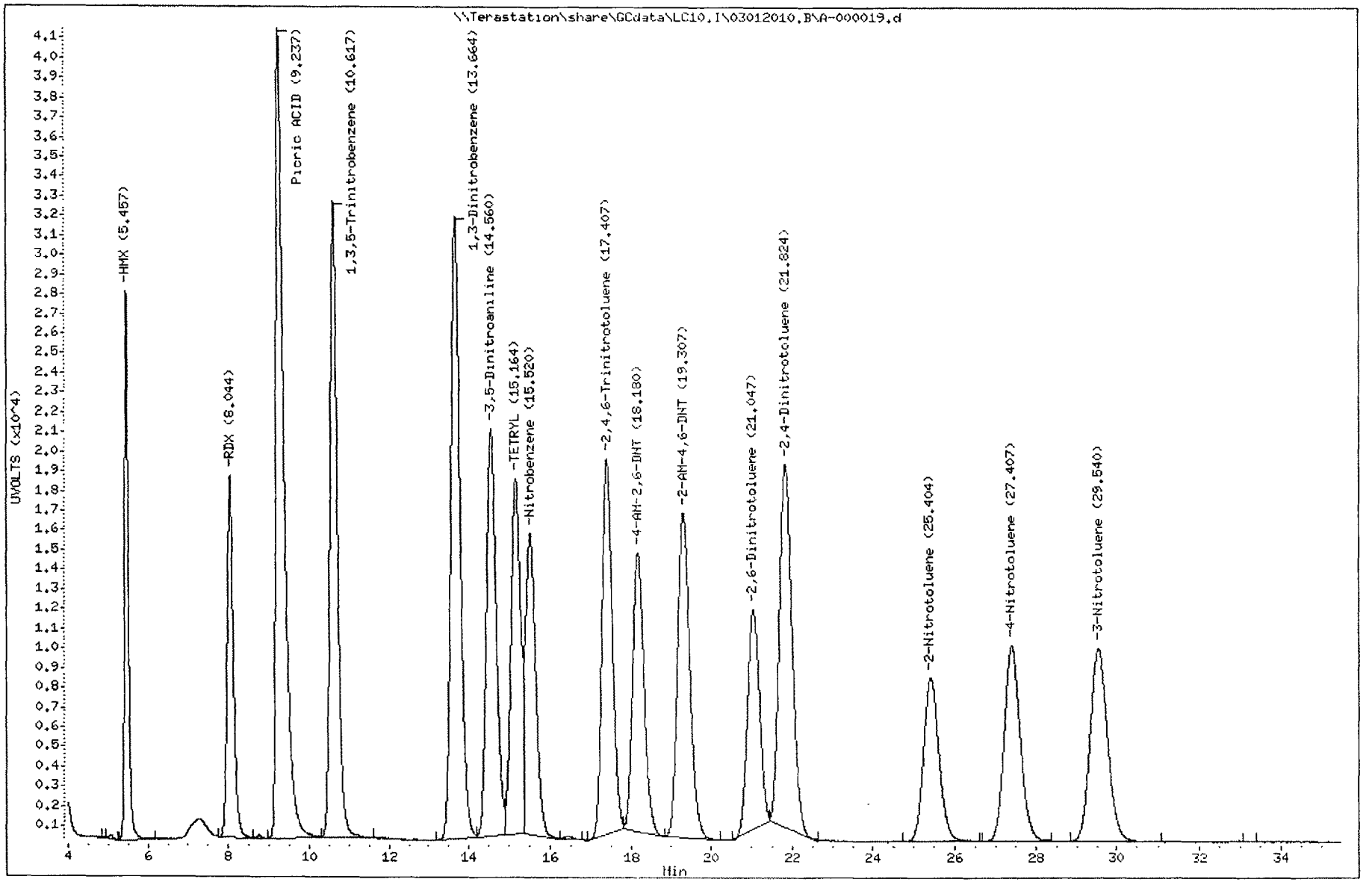
Instrument: LC10.i

Sample Info: ICV 10GCSV0058 8330 200ng/mL;2

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000019.d\A-000019
Lab Smp Id: ICV 10GCSV0058 8330
Inj Date : 02-MAR-2010 01:14
Operator : NS Inst ID: LC10.i
Smp Info : ICV 10GCSV0058 8330 200ng/mL;2
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:14 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
9.237	849293	60778	0.072	19.26	5 Picric ACID
10.614	7363	517	0.070	0.16	
13.664	258452	16422	0.064	5.18	
14.560	363697	21789	0.060	6.87	
15.167	388762	24491	0.063	7.72	
15.520	427771	23907	0.056	7.54	
16.444	238096	13921	0.058	4.39	11 Nitroglycerin
17.407	376128	20557	0.055	6.48	
18.177	424782	21215	0.050	6.69	
19.307	356880	16998	0.048	5.36	
21.047	440087	20006	0.045	6.31	
21.824	364079	15487	0.043	4.88	
25.407	516355	19787	0.038	6.24	
27.410	405262	14502	0.036	4.57	
29.537	592682	19506	0.033	6.15	
33.127	252854	6995	0.028	2.20	20 PETN
	6262544	316878		100.000	

Total unknown % height = 74.15

Data File: \\Terastation\share\GCdata\LC10,I\03012010,B\A-000019,d\A-000019,d

Date : 02-MAR-2010 01:14

Client ID:

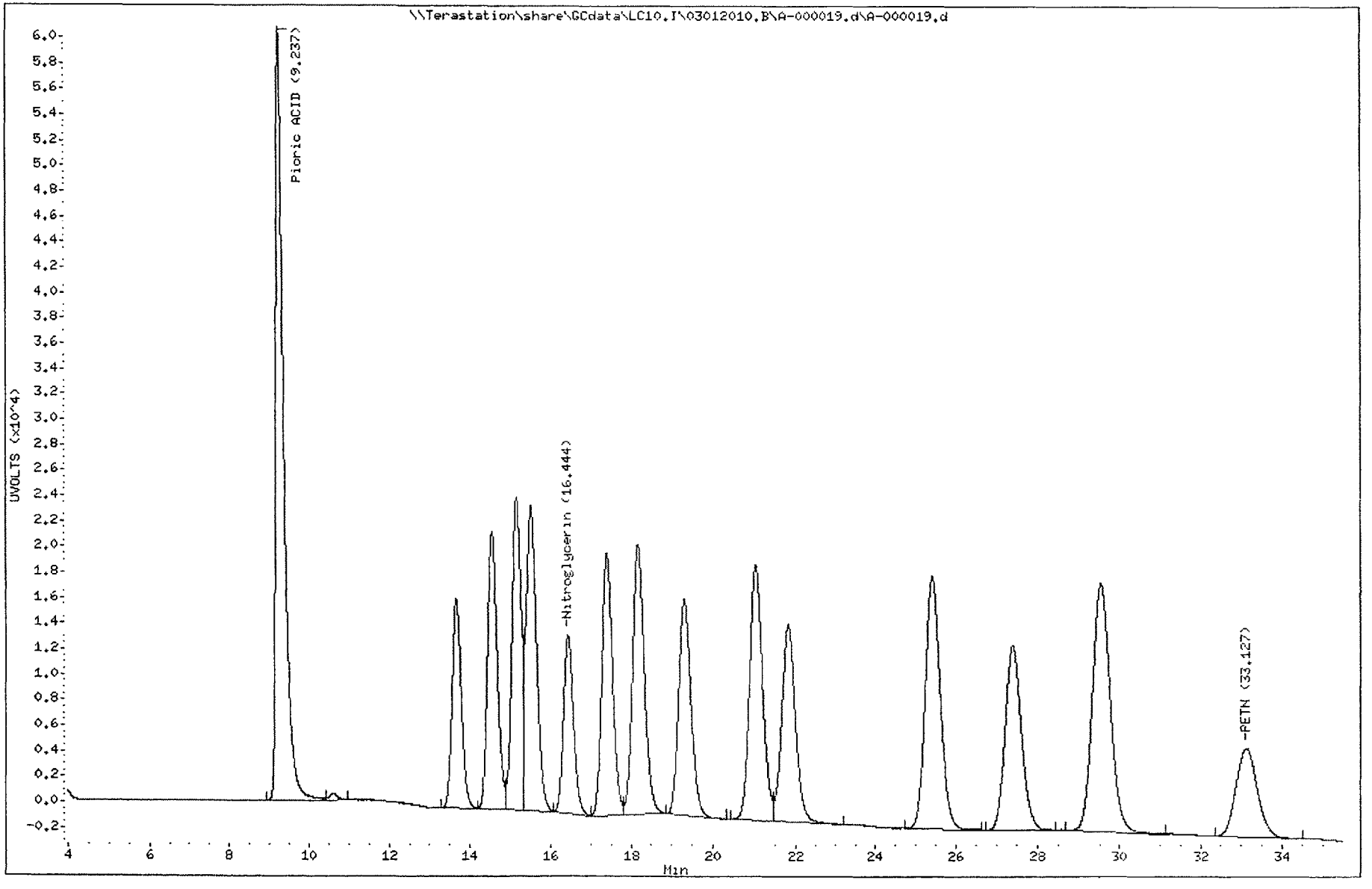
Instrument: LC10,1

Sample Info: ICV 10GCSV0058 8330 200ng/mL;2

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000020.D

Chromatography Summary

Injection Date: 3/2/2010 2 03 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000020.D **Vial Num:** 70

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **MRL 10GCSV0074 8330 5-50ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL sub **SpikeList:**

Samp. Info: MRL 10GCSV0074 8330 5-50ng/mL,2

Misc. Info: ,9; ; , ;3,CAL sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)							Synergi Hydro-RP C18(358nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	18.73	957	19.8400<	20	-1%	Acceptable		18.73	1737	17 7900	20	-11%	Acceptable		(±15)	
HMX	5.45	699	5 2470<	5	5%	Acceptable					5	-100%	Fails		(±15)	45
RDX	8 02	409	4.5330<	5	-9%	Acceptable					5	-100%	Fails		(±15)	45
Picric ACID	9 30	4130	47.1200	50	-6%	Acceptable		9 30	5993	46.5700<	50	-7%	Acceptable		(±15)	
1,3,5-Trinitrobenzene	10 60	787	4.8920<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	13 65	754	4.8020<	5	-4%	Acceptable					5	-100%	Fails		(±15)	45
TETRYL	15.15	436	4.9660<	5	-1%	Acceptable					5	-100%	Fails		(±15)	45
Nitrobenzene	15 46	384	5.1870<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	17.35	476	4 9820<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
4-AM-2,6-DNT	18 16	356	4.9940<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
2-AM-4,6-DNT	19.25	407	5 0140<	5	0%	Acceptable					5	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	21 02	271	4 7850<	5	-4%	Acceptable					5	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	21 80	452	4.9200<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
2-Nitrotoluene	25 36	219	5.3770<	5	8%	Acceptable					5	-100%	Fails		(±15)	45
4-Nitrotoluene	27 34	250	5.1320<	5	3%	Acceptable					5	-100%	Fails		(±15)	45
3-Nitrotoluene	29 44	249	5 1860<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
Nitroglycerin				20	-100%	Fails		16 41	1265	20 1800<	20	1%	Acceptable		(±15)	45
PETN				20	-100%	Fails		33 09	682	21 5700<	20	8%	Acceptable		(±15)	45
3,5-Dinitroaniline	14 52	504	4 8940<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
EGDN				20	-100%	Fails					20	-100%	Fails		(±15)	

3/2/10

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/2/2010 9:15 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d
Lab Smp Id: MRL 10GCSV0074 8330
Inj Date : 02-MAR-2010 02:03
Operator : NS Inst ID: LC10.i
Smp Info : MRL 10GCSV0074 8330 5-50ng/mL;2
Misc Info : ;9; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:15 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 70 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.445	6713	699	0.104	5.88		2 HMX
8.015	4795	409	0.085	3.44		3 RDX
9.295	64014	4130	0.065	34.88		5 Picric ACID
10.599	11499	787	0.068	6.62		6 1,3,5-Trinitrobenze
13.645	13919	754	0.054	6.35		7 1,3-Dinitrobenzene
14.519	9427	504	0.053	4.24		8 3,5-Dinitroaniline
15.152	7127	436	0.061	3.67		9 TETRYL
15.462	6871	384	0.056	3.23		10 Nitrobenzene
17.345	9391	476	0.051	4.00		12 2,4,6-Trinitrotolue
18.155	6614	356	0.054	2.99		13 4-AM-2,6-DNT
18.732	19615	957	0.049	8.06	$	1 3,4-Dinitrotoluene
19.252	8993	407	0.045	3.42		14 2-AM-4,6-DNT
21.019	5412	271	0.050	2.28		15 2,6-Dinitrotoluene
21.802	10692	452	0.042	3.80		16 2,4-Dinitrotoluene
25.355	6266	219	0.035	1.84		17 2-Nitrotoluene
26.492	205	45	0.220	0.37		
26.945	125	38	0.304	0.32		
27.335	6353	250	0.039	2.10		18 4-Nitrotoluene
28.685	360	50	0.139	0.42		
29.442	8160	249	0.031	2.09		19 3-Nitrotoluene
	206549	11873		100.000		

Total unknown % height = 1.110

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d

Date : 02-MAR-2010 02:03

Client ID:

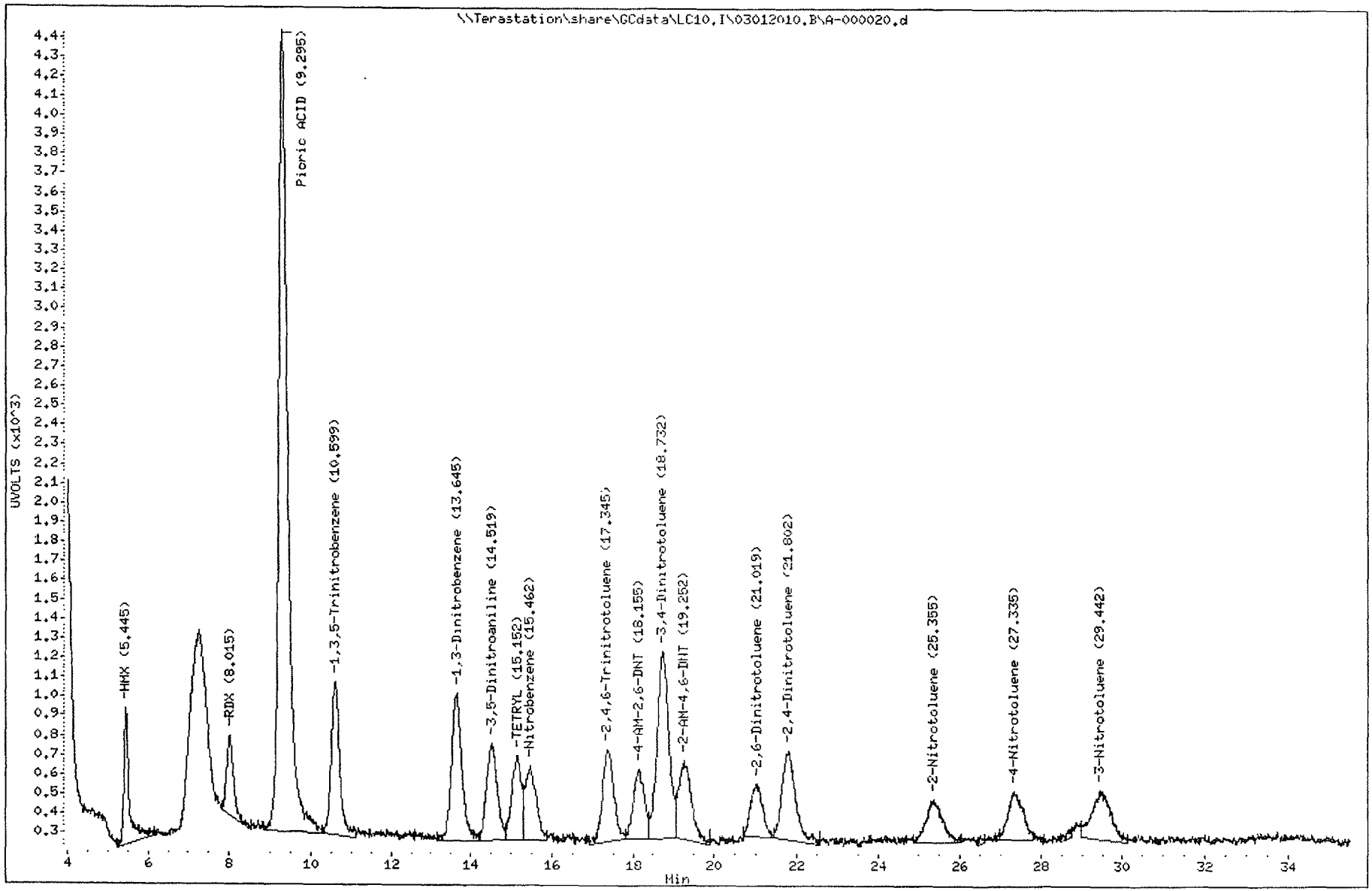
Instrument: LC10.i

Sample Info: MRL 10GCSV0074 8330 5-50ng/mL:2

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020
Lab Smp Id: MRL 10GCSV0074 8330
Inj Date : 02-MAR-2010 02:03
Operator : NS Inst ID: LC10.i
Smp Info : MRL 10GCSV0074 8330 5-50ng/mL;2
Misc Info : ;9; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:15 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 70 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

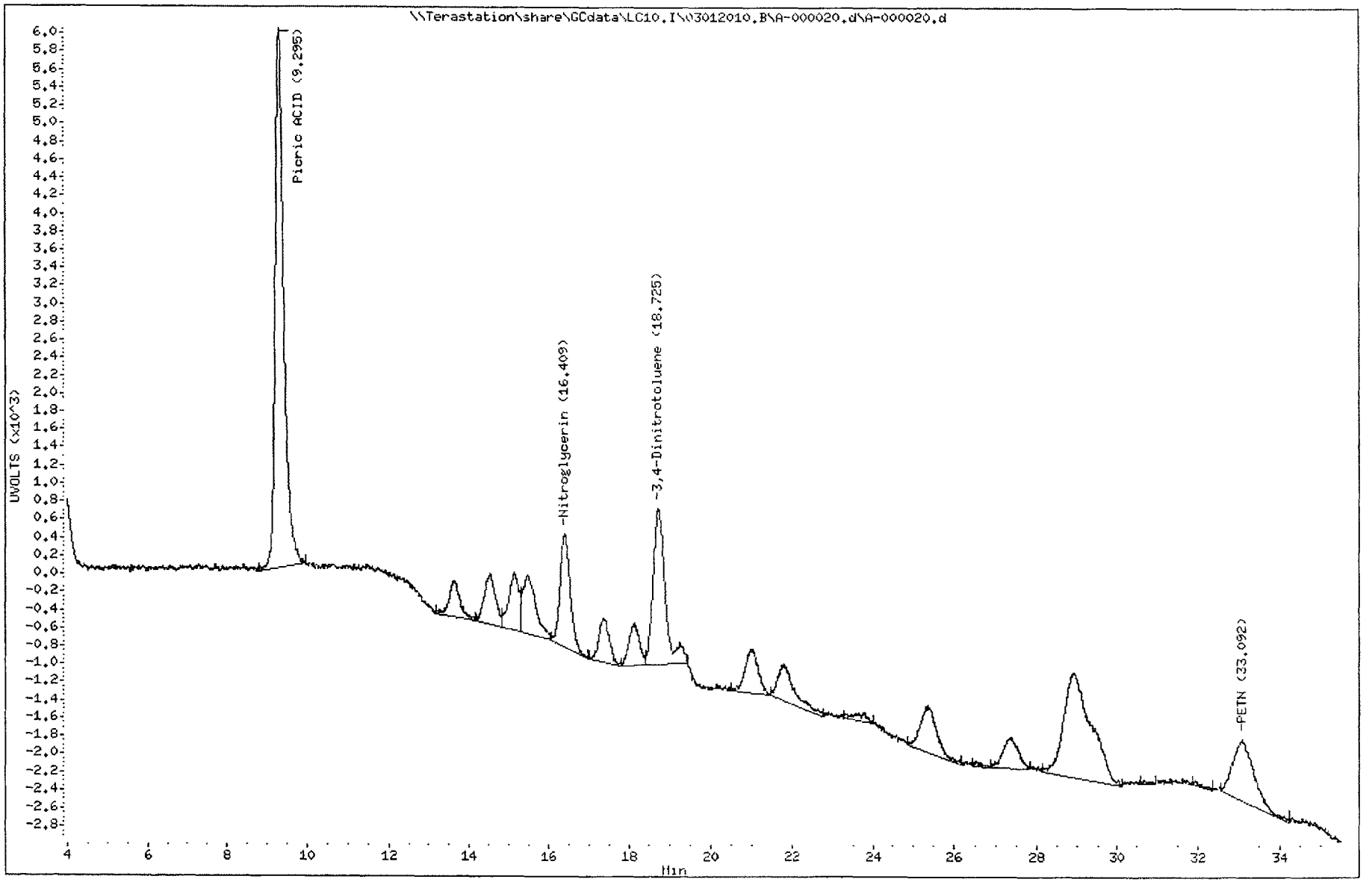
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.295	88667	5993	0.068	37.36		5 Picric ACID
13.599	7435	396	0.053	2.46		
14.522	11000	559	0.051	3.47		
15.135	11345	643	0.057	3.99		
15.462	14564	648	0.044	4.02		
16.409	22586	1265	0.056	7.86		11 Nitroglycerin
17.369	9305	496	0.053	3.08		
18.152	8484	478	0.056	2.97		
18.725	35776	1737	0.049	10.80	$	1 3,4-Dinitrotoluene
20.985	11046	489	0.044	3.04		
21.815	11755	405	0.034	2.51		
23.589	2146	82	0.038	0.50		
25.362	14657	519	0.035	3.22		
26.512	759	62	0.082	0.38		
27.339	9306	345	0.037	2.14		
28.929	54402	1174	0.022	7.30		
30.669	570	48	0.084	0.29		
31.932	681	60	0.088	0.37		
33.092	24525	682	0.028	4.24		20 PETN
	339007	16081		100.000		

Total unknown % height = 39.74

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000020.d\A-000020.d
Date : 02-MAR-2010 02:03
Client ID:
Sample Info: MRL 10GCSV0074 8330 5-50ng/mL;2

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



TestAmerica West Sacramento

A-000010.D

Chromatography Summary

Injection Date: 3/1/2010 17:59 **Operator:** NS

DataFile: LC10.I\03012010 B\A-000010 D **Vial Num:** 61

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_01 10GCSV0046 8330 ICAL L1 5ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 17:59

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1

Misc. Info: ,1; ; ; ,3;CAL.sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene			5		0			5		0
HMX	5.46	751	5		150.2 ✓			5		0
RDX	8.05	492	5		98.4			5		0
Picric ACID	9.22	27	10		2.7			10		0
1,3,5-Trinitrobenzene	10.62	848	5		169.6			5		0
1,3-Dinitrobenzene	13.69	854	5		170.8			5		0
TETRYL	15.18	472	5		94.4			5		0
Nitrobenzene	15.54	365	5		73			5		0
2,4,6-Trinitrotoluene	17.42	535	5		107			5		0
4-AM-2,6-DNT	18.21	404	5		80.8			5		0
2-AM-4,6-DNT	19.33	466	5		93.2			5		0
2,6-Dinitrotoluene	21.04	326	5		65.2			5		0
2,4-Dinitrotoluene	21.87	513	5		102.6			5		0
2-Nitrotoluene	25.50	212	5		42.4			5		0
4-Nitrotoluene	27.50	241	5		48.2			5		0
3-Nitrotoluene	29.57	251	5		50.2			5		0
Nitroglycerin			5		0			5		0
PETN			5		0	33.08	68	5		13.6
3,5-Dinitroaniline	14.57	588	5		117.6			5		0
EGDN			5		0			5		0

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d
Lab Smp Id: CS_01 10GCSV0046 83
Inj Date : 01-MAR-2010 17:59
Operator : NS Inst ID: LC10.i
Smp Info : CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1
Misc Info : ;1; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:03 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 17:59 Cal File: A-000010.d
Als bottle: 61 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
5.456	5457	751	0.138	9.92	2 HMX
8.053	5137	492	0.096	6.49	3 RDX
8.996	140	39	0.279	0.51	
9.223	180	27	0.150	0.35	5 Picric ACID
9.960	937	58	0.062	0.76	
10.623	10912	848	0.078	11.20	6 1,3,5-Trinitrobenze
12.533	190	36	0.190	0.47	
13.690	14125	854	0.060	11.38	7 1,3-Dinitrobenzene
14.566	10139	588	0.058	7.76	8 3,5-Dinitroaniline
15.180	7903	472	0.060	6.23	9 TETRYL
15.540	6816	365	0.054	4.82	10 Nitrobenzene
17.423	10563	535	0.051	7.06	12 2,4,6-Trinitrotolue
18.206	8964	404	0.045	5.33	13 4-AM-2,6-DNT
19.326	11396	466	0.041	6.15	14 2-AM-4,6-DNT
21.036	7610	326	0.043	4.30	15 2,6-Dinitrotoluene
21.870	13045	513	0.039	6.77	16 2,4-Dinitrotoluene
24.976	228	44	0.193	0.58	
25.503	5737	212	0.037	2.80	17 2-Nitrotoluene
27.503	6734	241	0.036	3.18	18 4-Nitrotoluene
29.573	7409	251	0.034	3.31	19 3-Nitrotoluene
33.523	183	48	0.262	0.63	
	133806	7570		100.000	

Total unknown % height = 2.950

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d

Date : 01-MAR-2010 17:59

Client ID:

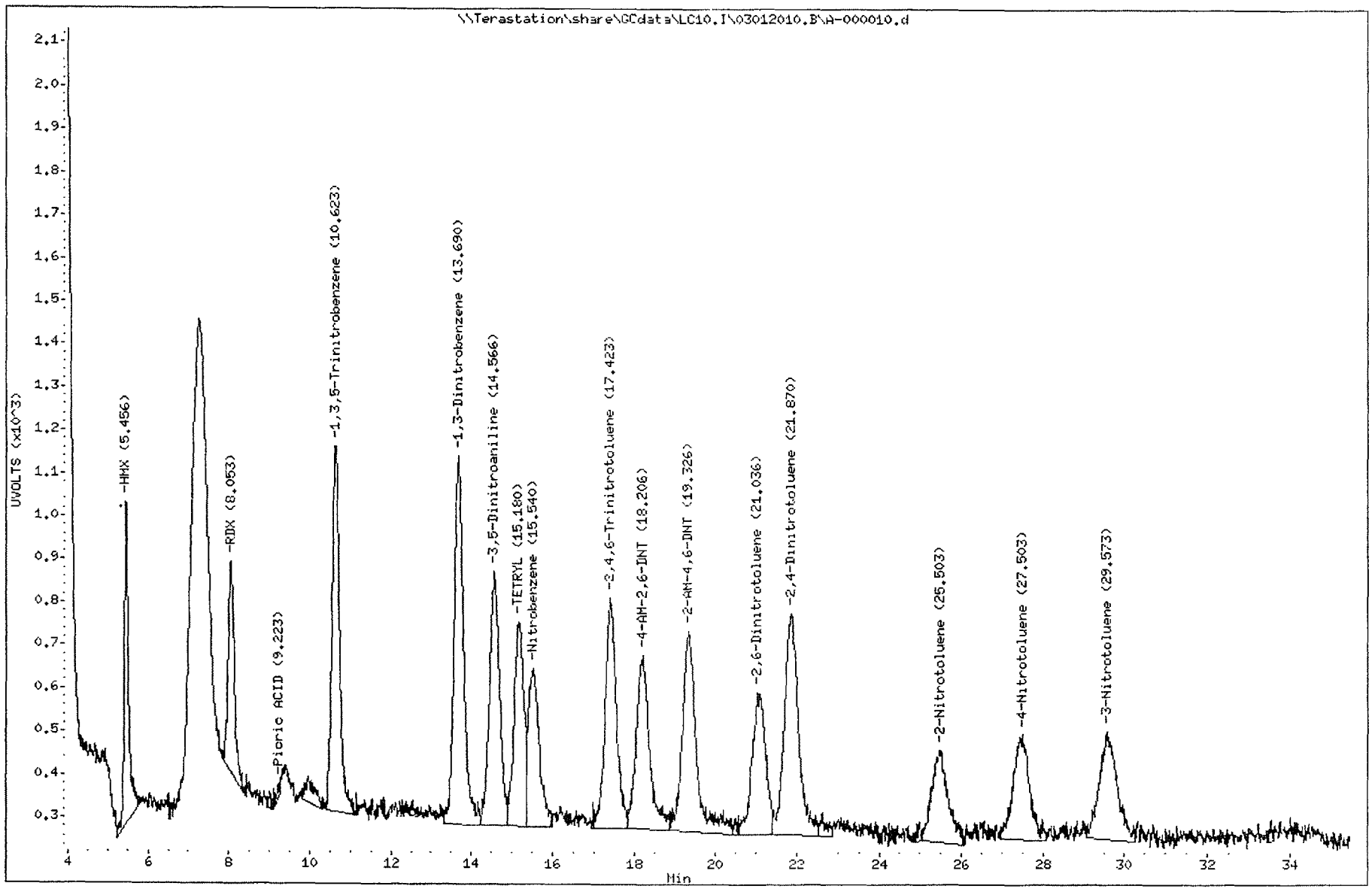
Instrument: LC10.i

Sample Info: CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000010.d\A-000010
Lab Smp Id: CS_01 10GCSV0046 83
Inj Date : 01-MAR-2010 17:59
Operator : NS Inst ID: LC10.i
Smp Info : CS_01 10GCSV0046 8330 ICAL L1 5ng/mL;1
Misc Info : ;1; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:03 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 17:59 Cal File: A-000010.d
Als bottle: 61 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
13.670	7343	439	0.060	6.64	
14.560	9544	585	0.061	8.85	
15.183	10124	632	0.062	9.65	
15.533	12585	614	0.049	9.29	
17.423	10853	577	0.053	8.73	
18.203	11799	569	0.048	8.60	
19.333	8847	450	0.051	6.80	
20.086	419	38	0.091	0.57	
20.406	889	65	0.073	0.98	
20.700	742	93	0.125	1.40	
21.033	12222	550	0.045	8.32	
21.863	11441	405	0.035	6.12	
24.806	197	42	0.213	0.63	
25.456	13632	509	0.037	7.70	
26.550	6374	256	0.040	3.87	
27.426	5888	268	0.046	4.05	
28.156	1132	57	0.050	0.86	
29.536	8569	331	0.039	5.00	
31.440	1543	61	0.040	0.92	
33.083	1197	68	0.057	1.02	20 PETN
	135338	6609		100.000	

Total unknown % height = 98.98

TestAmerica West Sacramento

A-000011.D

Chromatography Summary

Injection Date: 3/1/2010 18 47 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000011.D **Vial Num:** 62

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_02 10GCSV0047 8330 ICAL L2 10ng/mL**

Method File: LC10.I\03012010.B\8330AB M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1

Misc. Info: ;2: : , ,3;CAL sub, ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.79	523	10		52.3	18.80	1138	10		113.8
HMX	5.46	1440	10		144 ✓			10		0
RDX	8.05	969	10		96.9			10		0
Picric ACID	9.33	1858	20		92.9	9.33	2684	20		134.2
1,3,5-Trinitrobenzene	10.63	1716	10		171.6			10		0
1,3-Dinitrobenzene	13.68	1704	10		170.4			10		0
TETRYL	15.18	912	10		91.2			10		0
Nitrobenzene	15.53	797	10		79.7			10		0
2,4,6-Trinitrotoluene	17.42	992	10		99.2			10		0
4-AM-2,6-DNT	18.21	763	10		76.3			10		0
2-AM-4,6-DNT	19.33	872	10		87.2			10		0
2,6-Dinitrotoluene	21.05	589	10		58.9			10		0
2,4-Dinitrotoluene	21.86	962	10		96.2			10		0
2-Nitrotoluene	25.44	431	10		43.1			10		0
4-Nitrotoluene	27.43	532	10		53.2			10		0
3-Nitrotoluene	29.57	509	10		50.9			10		0
Nitroglycerin			10		0	16.46	661	10		66.1
PETN			10		0	33.25	432	10		43.2
3,5-Dinitroaniline	14.56	1099	10		109.9			10		0
EGDN			10		0			10		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/2/2010 9:13 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d
Lab Smp Id: CS_02 10GCSV0047 83
Inj Date : 01-MAR-2010 18:47
Operator : NS Inst ID: LC10.i
Smp Info : CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1
Misc Info : ;2; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 18:47 Cal File: A-000011.d
Als bottle: 62 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
4.944	608	59	0.097	0.35		
5.457	10495	1440	0.137	8.56	2	HMX
8.050	10070	969	0.096	5.76	3	RDX
9.327	25790	1858	0.072	11.15	5	Picric ACID
10.630	21523	1716	0.080	10.21	6	1,3,5-Trinitrobenze
13.677	26558	1704	0.064	10.13	7	1,3-Dinitrobenzene
14.564	18348	1099	0.060	6.53	8	3,5-Dinitroaniline
15.177	14506	912	0.063	5.42	9	TETRYL
15.530	13691	797	0.058	4.74	10	Nitrobenzene
17.417	18239	992	0.054	5.90	12	2,4,6-Trinitrotolue
18.207	14143	763	0.054	4.53	13	4-AM-2,6-DNT
18.794	9834	523	0.053	3.11	$ 1	3,4-Dinitrotoluene
19.330	18370	872	0.047	5.18	14	2-AM-4,6-DNT
21.054	12247	589	0.048	3.50	15	2,6-Dinitrotoluene
21.857	20496	962	0.047	5.72	16	2,4-Dinitrotoluene
25.440	11741	431	0.037	2.56	17	2-Nitrotoluene
26.990	214	34	0.159	0.20		
27.427	14666	532	0.036	3.16	18	4-Nitrotoluene
28.664	239	46	0.192	0.27		
29.574	15884	509	0.032	3.02	19	3-Nitrotoluene
	277664	16807		100.000		

Total unknown % height = 0.8200

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d

Page 2

Date : 01-MAR-2010 18:47

Client ID:

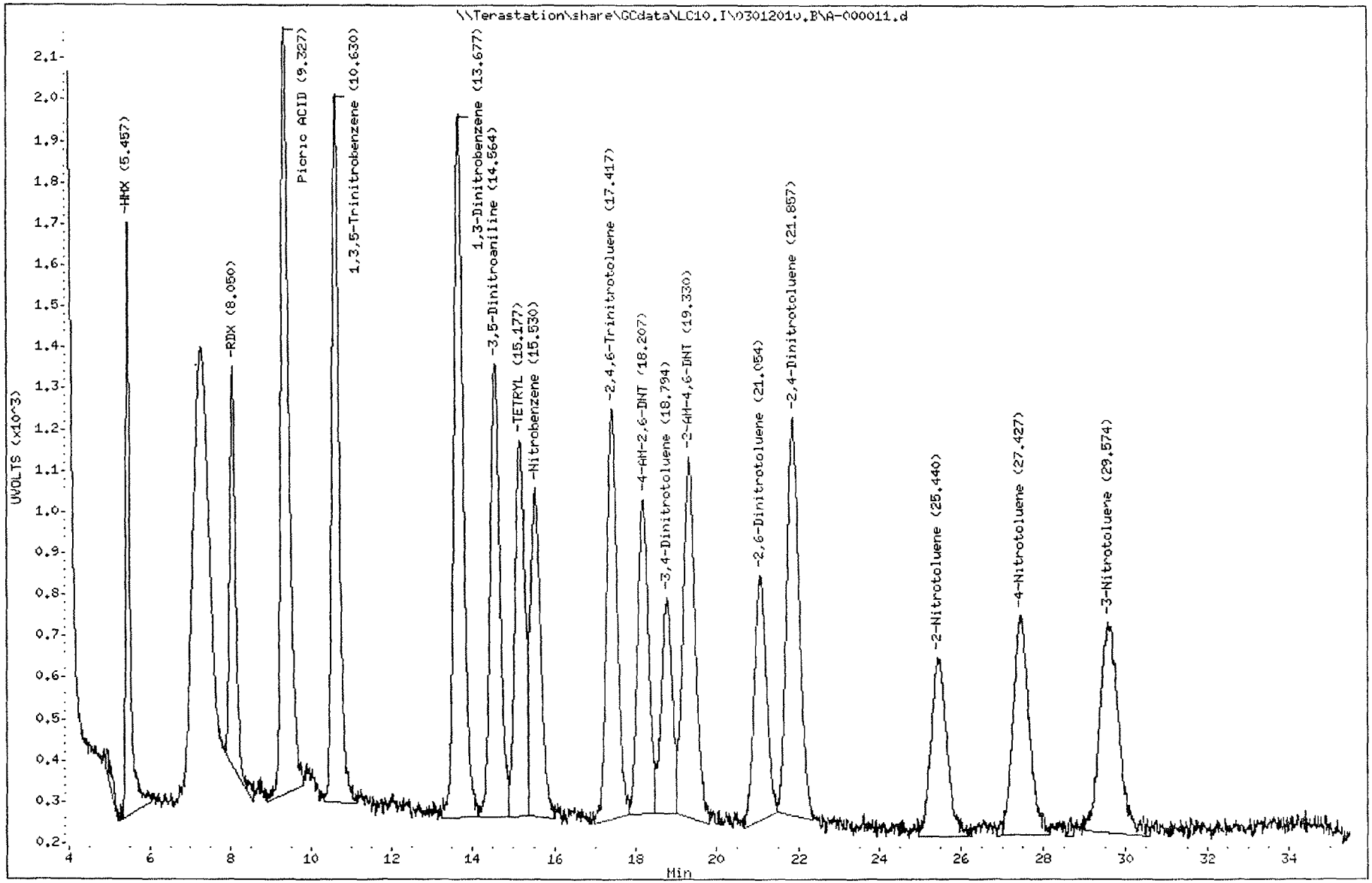
Instrument: LC10.i

Sample Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011
Lab Smp Id: CS_02 10GCSV0047 83
Inj Date : 01-MAR-2010 18:47
Operator : NS Inst ID: LC10.i
Smp Info : CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1
Misc Info : ;2; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 18:47 Cal File: A-000011.d
Als bottle: 62 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

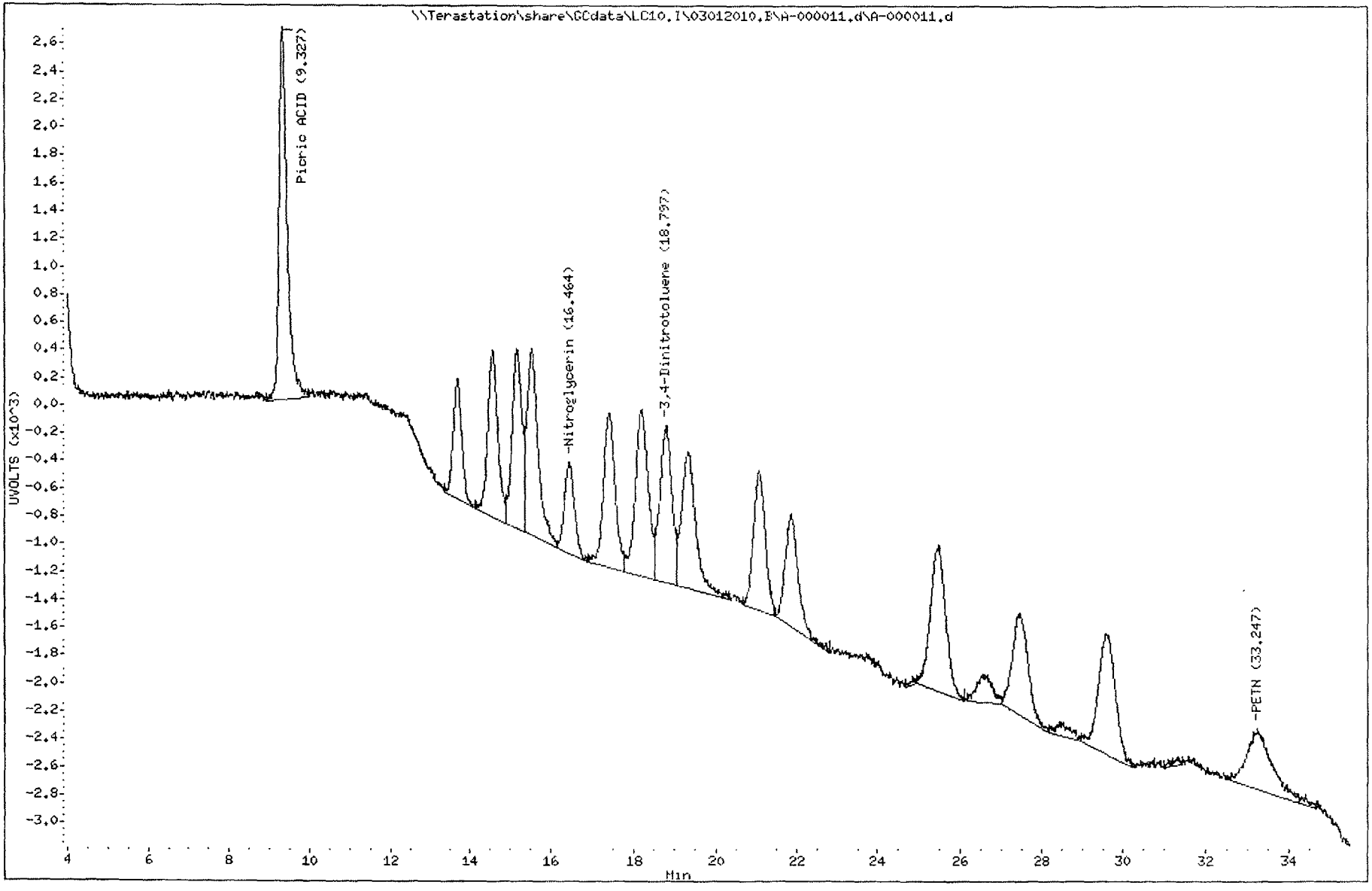
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.327	37712	2684	0.071	15.09		5 Picric ACID
13.674	13032	870	0.067	4.86		
14.567	20808	1200	0.058	6.70		
15.174	21432	1293	0.060	7.22		
15.537	26114	1346	0.052	7.52		
16.464	11110	661	0.059	3.69		11 Nitroglycerin
17.430	22032	1115	0.051	6.23		
18.217	25604	1202	0.047	6.71		
18.797	23362	1138	0.049	6.36	$	1 3,4-Dinitrotoluene
19.330	23643	993	0.042	5.54		
21.064	20706	1004	0.048	5.61		
21.867	18868	825	0.044	4.61		
24.830	407	61	0.150	0.34		
25.474	27528	1053	0.038	5.88		
26.580	5360	199	0.037	1.11		
27.424	19997	729	0.036	4.07		
28.537	2688	109	0.041	0.60		
29.567	24556	859	0.035	4.80		
31.097	265	60	0.227	0.33		
31.334	437	59	0.135	0.32		
33.247	18911	432	0.023	2.41		20 PETN
	364571	17892		100.000		

Total unknown % height = 72.45

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000011.d\A-000011.d
Date : 01-MAR-2010 18:47
Client ID:
Sample Info: CS_02 10GCSV0047 8330 ICAL L2 10ng/mL;1

Instrument: LC10.i
Operator: NS
Column diameter: 4.60

Column phase: SYNERGI HYDRORP C18



2401

North Canton

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012
Lab Smp Id: CS_03 10GCSV0048 83
Inj Date : 01-MAR-2010 19:35
Operator : NS Inst ID: LC10.i
Smp Info : CS_03 10GCSV0048 8330 ICAL L3 20ng/mL;1
Misc Info : ;3; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 19:35 Cal File: A-000012.d
Als bottle: 63 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.330	106240	7713	0.073	21.69		5 Picric ACID
13.697	25413	1657	0.065	4.63		
14.607	38842	2279	0.059	6.38		
15.227	38286	2408	0.063	6.74		
15.574	45833	2483	0.054	6.95		
16.490	21629	1271	0.059	3.55		11 Nitroglycerin
17.467	41361	2155	0.052	6.03		
18.257	47481	2291	0.048	6.41		
18.847	38195	1941	0.051	5.43	$	1 3,4-Dinitrotoluene
19.394	38016	1764	0.046	4.93		
21.124	39485	1910	0.048	5.34		
21.907	32676	1467	0.045	4.10		
23.324	684	57	0.083	0.15		
25.500	54484	2025	0.037	5.67		
26.567	2486	122	0.049	0.34		
27.527	38479	1421	0.037	3.97		
29.640	61616	1922	0.031	5.38		
31.030	938	66	0.070	0.18		
33.244	39826	761	0.019	2.13		20 PETN
	711969	35713		100.000		

Total unknown % height = 67.20

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000012.d\A-000012.d

Date : 01-MAR-2010 19:35

Client ID:

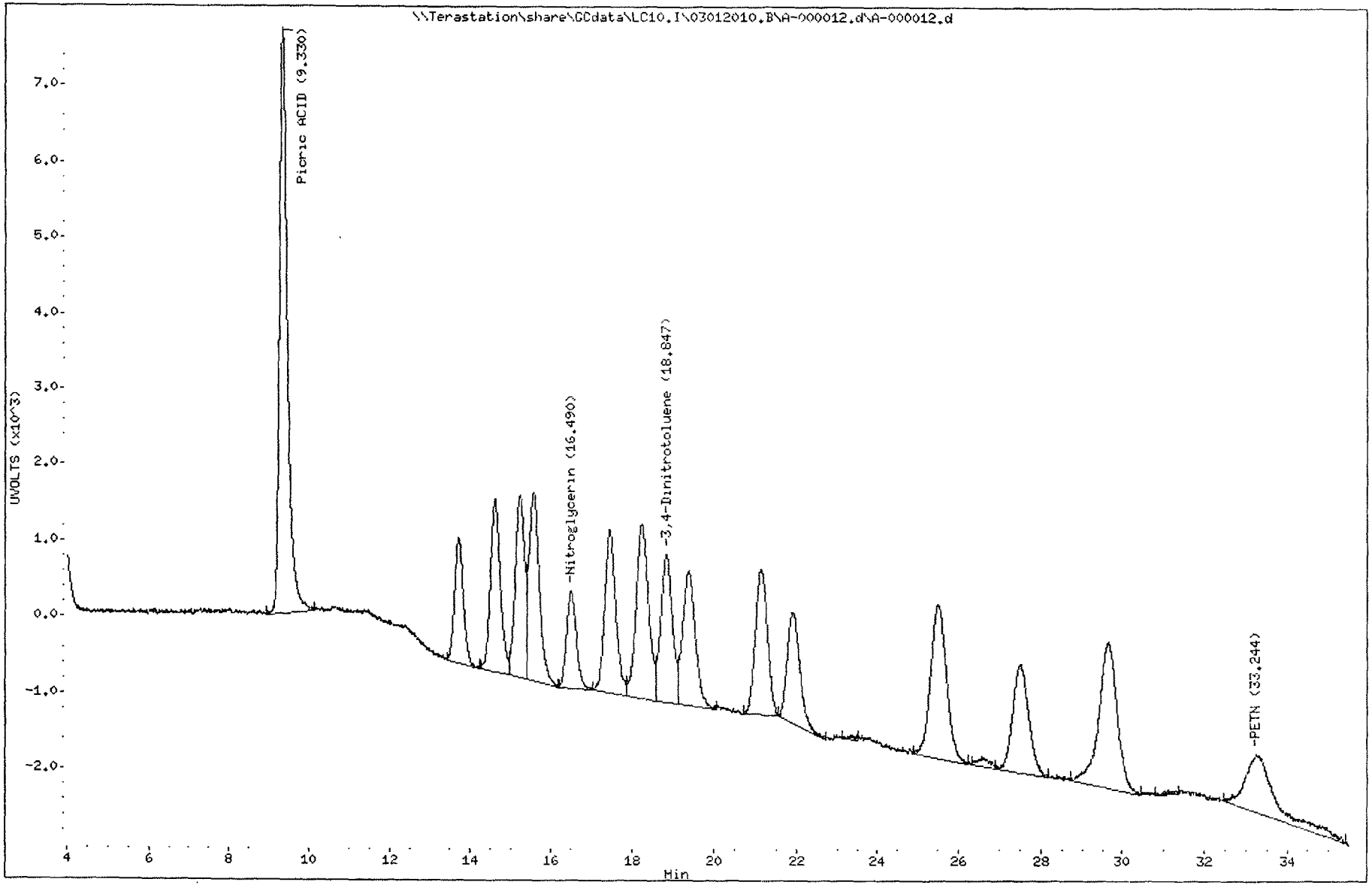
Instrument: LC10.i

Sample Info: CS_03 10GCSV0048 8330 ICAL L3 20ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000013.D

Chromatography Summary

Injection Date: 3/1/2010 20.24 **Operator:** NS

DataFile: LC10.I\03012010 B\A-000013.D **Vial Num:** 64

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_04 10GCSV0049 8330 ICAL L4 50ng/mL**

Method File: LC10.I\03012010 B\8330AB M

Start Cal Date: 3/1/2010 17.59 **End Cal Date:** 3/1/2010 20 24

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1

Misc. Info: ;4; , , ;3,CAL sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.81	2316	50		46.32	18.81	4744	50		94.88
HMX	5.46	6811	50		136.22✓			50		0
RDX	8.05	4789	50		95.78			50		0
Picric ACID	9.30	9168	100		91.68	9.30	13461	100		134.61
1,3,5-Trinitrobenzene	10.63	8360	50		167.2			50		0
1,3-Dinitrobenzene	13.68	8162	50		163.24			50		0
TETRYL	15.18	4408	50		88.16			50		0
Nitrobenzene	15.54	3846	50		76.92			50		0
2,4,6-Trinitrotoluene	17.44	4819	50		96.38			50		0
4-AM-2,6-DNT	18.21	3572	50		71.44			50		0
2-AM-4,6-DNT	19.36	4071	50		81.42			50		0
2,6-Dinitrotoluene	21.09	2815	50		56.3			50		0
2,4-Dinitrotoluene	21.89	4630	50		92.6			50		0
2-Nitrotoluene	25.50	2099	50		41.98			50		0
4-Nitrotoluene	27.49	2497	50		49.94			50		0
3-Nitrotoluene	29.65	2470	50		49.4			50		0
Nitroglycerin			50		0	16.47	3172	50		63.44
PETN			50		0	33.29	1531	50		30.62
3,5-Dinitroaniline	14.58	5320	50		106.4			50		0
EGDN			50		0			50		0

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/2/2010 9:05 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d
Lab Smp Id: CS_04 10GCSV0049 83
Inj Date : 01-MAR-2010 20:24
Operator : NS Inst ID: LC10.i
Smp Info : CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1
Misc Info : ;4; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:04 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 20:24 Cal File: A-000013.d
Als bottle: 64 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
5.458	45436	6811	0.150	8.48		2	HMX
8.048	49685	4789	0.096	5.96		3	RDX
9.304	126738	9168	0.072	11.49		5	Picric ACID
10.628	104984	8360	0.080	10.41		6	1,3,5-Trinitrobenze
13.684	127399	8162	0.064	10.16		7	1,3-Dinitrobenzene
14.578	87627	5320	0.061	6.62		8	3,5-Dinitroaniline
15.184	70751	4408	0.062	5.49		9	TETRYL
15.538	66616	3846	0.058	4.79		10	Nitrobenzene
16.414	794	49	0.062	0.06			
17.438	86851	4819	0.055	6.00		12	2,4,6-Trinitrotolue
18.214	68102	3572	0.052	4.44		13	4-AM-2,6-DNT
18.808	42245	2316	0.055	2.88	$	1	3,4-Dinitrotoluene
19.361	85824	4071	0.047	5.07		14	2-AM-4,6-DNT
21.091	57775	2815	0.049	3.50		15	2,6-Dinitrotoluene
21.891	100836	4630	0.046	5.76		16	2,4-Dinitrotoluene
25.498	55654	2099	0.038	2.61		17	2-Nitrotoluene
27.491	71148	2497	0.035	3.11		18	4-Nitrotoluene
29.651	75929	2470	0.033	3.07		19	3-Nitrotoluene
31.271	501	33	0.066	0.04			
33.598	774	52	0.067	0.06			
	1325667	80287		100.000			

Total unknown % height = 0.1600

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d

Date : 01-MAR-2010 20:24

Client ID:

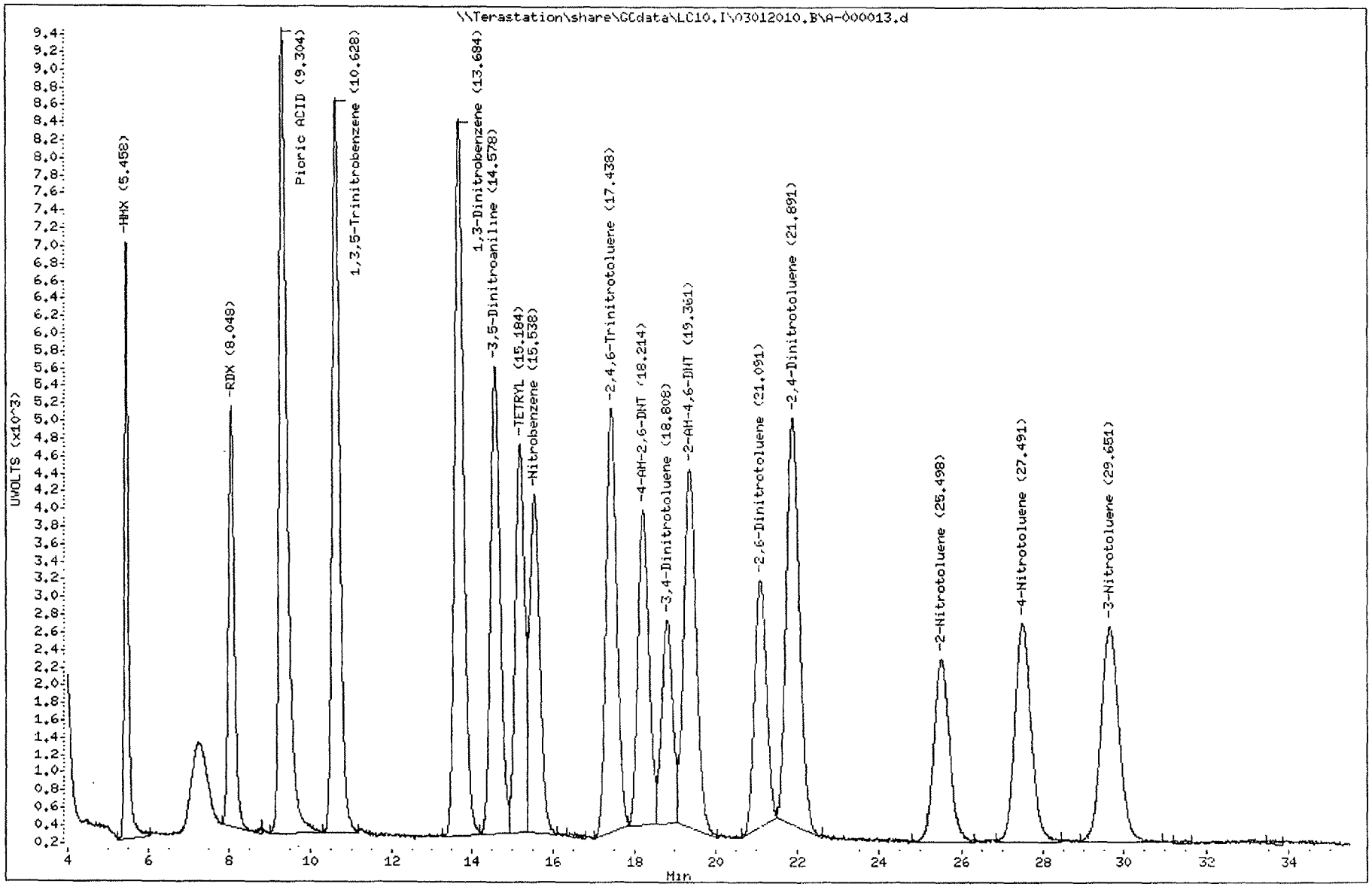
Instrument: LC10.i

Sample Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013
Lab Smp Id: CS_04 10GCSV0049 83
Inj Date : 01-MAR-2010 20:24
Operator : NS Inst ID: LC10.i
Smp Info : CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1
Misc Info : ;4; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 20:24 Cal File: A-000013.d
Als bottle: 64 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.304	185295	13461	0.073	16.49		5 Picric ACID
10.614	3096	161	0.052	0.19		
13.678	65133	4218	0.065	5.13		
14.584	93353	5620	0.060	6.84		
15.184	96571	6042	0.063	7.36		
15.544	110731	6137	0.055	7.47		
16.468	53997	3172	0.059	3.86		11 Nitroglycerin
17.434	96161	5220	0.054	6.35		
18.227	107414	5450	0.051	6.63		
18.811	91472	4744	0.052	5.77	$	1 3,4-Dinitrotoluene
19.344	96900	4395	0.045	5.35		
21.094	100166	4846	0.048	5.90		
21.874	78671	3597	0.046	4.38		
23.294	251	35	0.139	0.04		
25.498	129596	4969	0.038	6.05		
26.711	1501	100	0.067	0.12		
27.504	102174	3635	0.036	4.42		
29.648	141933	4757	0.034	5.79		
33.291	54975	1531	0.028	1.86		20 PETN
	1609390	82090		100.000		

Total unknown % height = 72.02

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000013.d\A-000013.d

Date : 01-MAR-2010 20:24

Client ID:

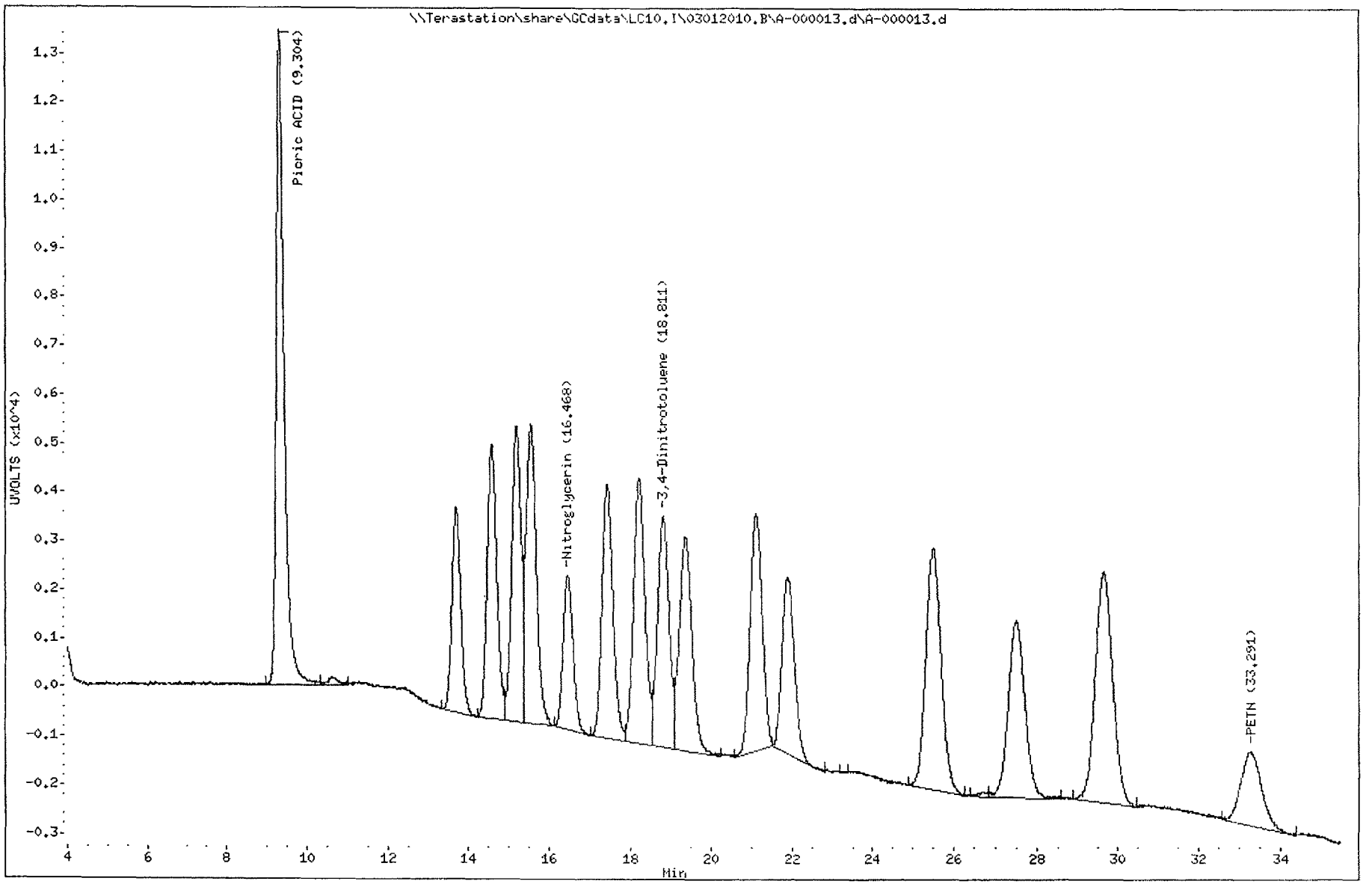
Instrument: LC10.i

Sample Info: CS_04 10GCSV0049 8330 ICAL L4 50ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000014.D

Chromatography Summary

Injection Date: 3/1/2010 21:12 **Operator:** NS

DataFile: LC10.I\03012010.B\A-000014.D **Vial Num:** 65

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_05 10GCSV0072 8330 ICAL L5 100ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 21:12

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Misc. Info: ;5; , ; ,3;CAL sub; ;0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.81	4722	100		47.22	18.81	9643	100		96.43
HMX	5.47	12992	100		129.92			100		0
RDX	8.06	9110	100		91.1			100		0
Picric ACID	9.29	18284	200		91.42	9.29	26894	200		134.47
1,3,5-Trinitrobenzene	10.63	16047	100		160.47			100		0
1,3-Dinitrobenzene	13.68	15623	100		156.23			100		0
TETRYL	15.19	8137	100		81.37			100		0
Nitrobenzene	15.54	7347	100		73.47			100		0
2,4,6-Trinitrotoluene	17.44	8994	100		89.94			100		0
4-AM-2,6-DNT	18.23	6860	100		68.6			100		0
2-AM-4,6-DNT	19.35	7804	100		78.04			100		0
2,6-Dinitrotoluene	21.10	5415	100		54.15			100		0
2,4-Dinitrotoluene	21.88	8851	100		88.51			100		0
2-Nitrotoluene	25.49	3996	100		39.96			100		0
4-Nitrotoluene	27.49	4760	100		47.6			100		0
3-Nitrotoluene	29.63	4686	100		46.86			100		0
Nitroglycerin			100		0	16.47	6294	100		62.94
PETN			100		0	33.25	3028	100		30.28
3,5-Dinitroaniline	14.59	10143	100		101.43			100		0
EGDN			100		0			100		0

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/2/2010 9:05 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d
Lab Smp Id: CS_05 10GCSV0072 83
Inj Date : 01-MAR-2010 21:12
Operator : NS Inst ID: LC10.i
Smp Info : CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 21:12 Cal File: A-000014.d
Als bottle: 65 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
4.899	891	54	0.061	0.03			
5.465	84795	12992	0.153	8.43		2	HMX
8.059	94702	9110	0.096	5.91		3	RDX
8.752	1023	89	0.087	0.05			
9.292	250834	18284	0.073	11.98		5	Picric ACID
10.632	202288	16047	0.079	10.42		6	1,3,5-Trinitrobenze
13.149	154	48	0.313	0.03			
13.682	245159	15623	0.064	10.14		7	1,3-Dinitrobenzene
14.585	167761	10143	0.060	6.58		8	3,5-Dinitroaniline
15.192	128683	8137	0.063	5.28		9	TETRYL
15.542	129697	7347	0.057	4.77		10	Nitrobenzene
17.435	161386	8994	0.056	5.84		12	2,4,6-Trinitrotolue
18.225	130131	6860	0.053	4.45		13	4-AM-2,6-DNT
18.812	87264	4722	0.054	3.06	$	1	3,4-Dinitrotoluene
19.352	162723	7804	0.048	5.06		14	2-AM-4,6-DNT
21.099	110606	5415	0.049	3.51		15	2,6-Dinitrotoluene
21.879	193383	8851	0.046	5.74		16	2,4-Dinitrotoluene
25.489	104870	3996	0.038	2.59		17	2-Nitrotoluene
27.492	133962	4760	0.036	3.09		18	4-Nitrotoluene
29.625	143046	4686	0.033	3.04		19	3-Nitrotoluene
	2533356	153962		100.000			

Total unknown % height = 0.1100

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d

Page 2

Date : 01-MAR-2010 21:12

Client ID:

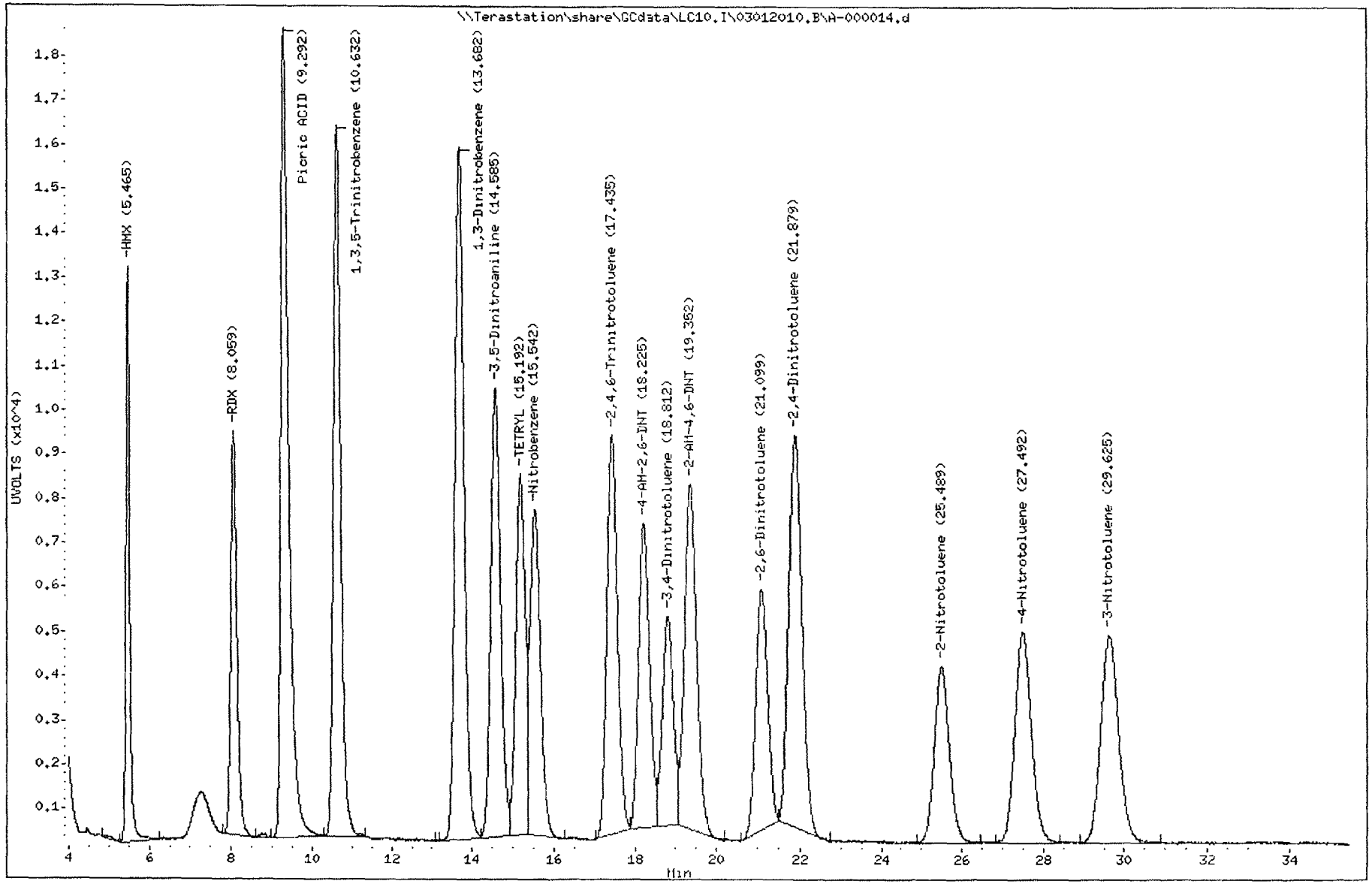
Instrument: LC10.1

Sample Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014
Lab Smp Id: CS_05 10GCSV0072 83
Inj Date : 01-MAR-2010 21:12
Operator : NS Inst ID: LC10.i
Smp Info : CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1
Misc Info : ;5; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 21:12 Cal File: A-000014.d
Als bottle: 65 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.292	368801	26894	0.073	16.99		5 Picric ACID
10.642	3652	274	0.075	0.17		
13.685	126129	8084	0.064	5.08		
14.582	178328	10700	0.060	6.72		
15.192	176375	11068	0.063	6.95		
15.542	207658	11615	0.056	7.30		
16.472	107558	6294	0.059	3.95		11 Nitroglycerin
17.435	177451	9680	0.055	6.08		
18.222	206978	10475	0.051	6.58		
18.812	188383	9643	0.051	6.06	$	1 3,4-Dinitrotoluene
19.349	180809	8403	0.046	5.28		
21.095	210800	9689	0.046	6.09		
21.882	170677	7368	0.043	4.63		
25.492	247837	9554	0.039	6.00		
27.495	197576	6973	0.035	4.38		
29.625	284762	9302	0.033	5.84		
33.245	115468	3028	0.026	1.90		20 PETN
	3149242	159044		100.000		

Total unknown % height = 71.10

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000014.d\A-000014.d

Date : 01-MAR-2010 21:12

Client ID:

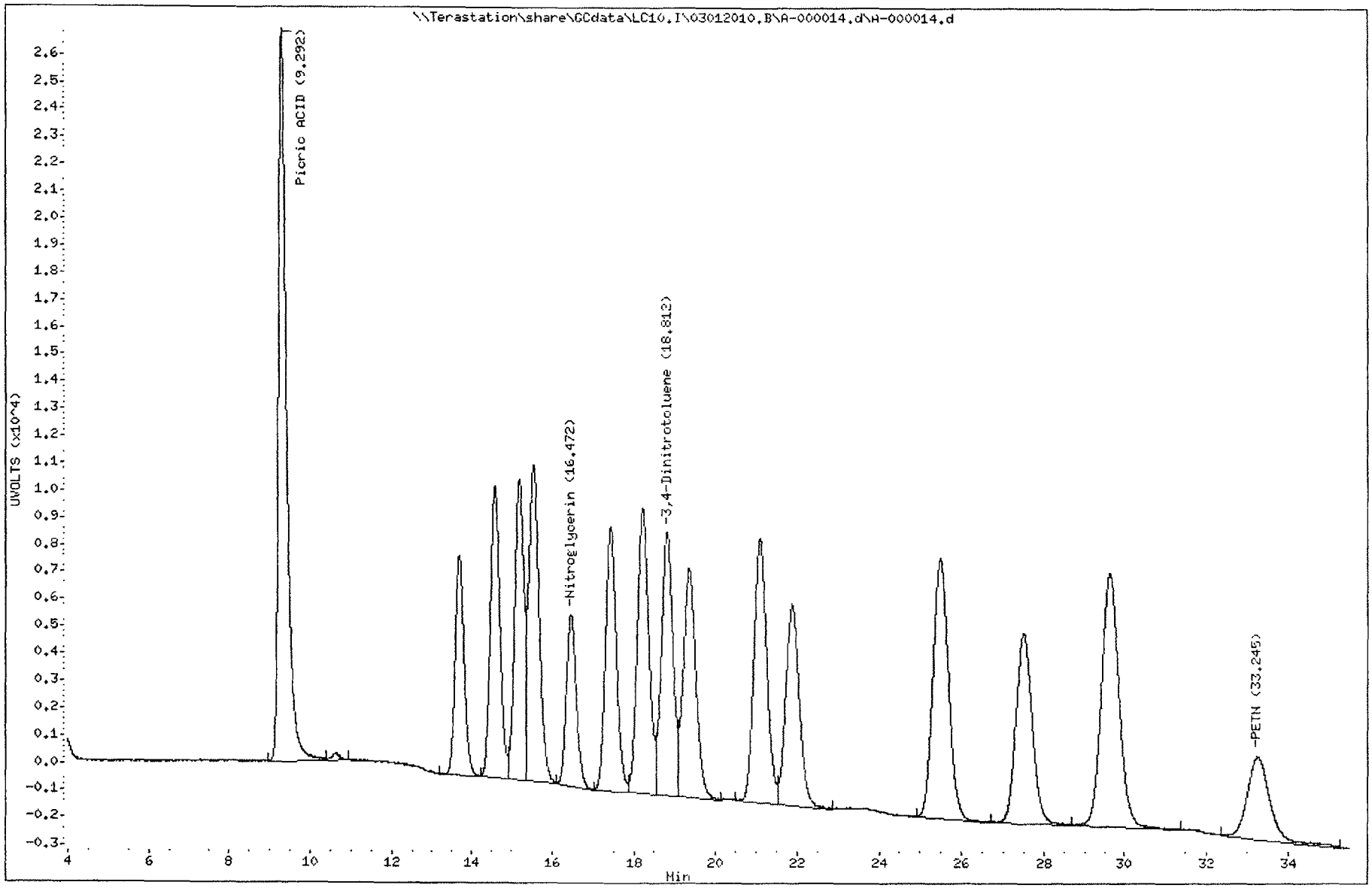
Instrument: LC10.i

Sample Info: CS_05 10GCSV0072 8330 ICAL L5 100ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000015.D

Chromatography Summary

Injection Date: 3/1/2010 22:01 **Operator:** NS

DataFile: LC10 I\03012010 B\A-000015 D **Vial Num:** 66

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_06 09GCSV0482 8330 ICAL L6 200ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 22:01

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1

Misc. Info: ;6, : ; ;3;CAL sub; ;0;1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.78	9276	200		46.38	18.78	19015	200		95.075
HMX	5.46	25936	200		129.68 ✓			200		0
RDX	8.05	18350	200		91.75			200		0
Picric ACID	9.23	42896	500		85.792	9.23	63395	500		126.79
1,3,5-Trinitrobenzene	10.62	32235	200		161.175			200		0
1,3-Dinitrobenzene	13.67	31365	200		156.825			200		0
TETRYL	15.17	18187	200		90.935			200		0
Nitrobenzene	15.53	14816	200		74.08			200		0
2,4,6-Trinitrotoluene	17.42	18851	200		94.255			200		0
4-AM-2,6-DNT	18.19	13722	200		68.61			200		0
2-AM-4,6-DNT	19.33	15663	200		78.315			200		0
2,6-Dinitrotoluene	21.07	10842	200		54.21			200		0
2,4-Dinitrotoluene	21.85	17751	200		88.755			200		0
2-Nitrotoluene	25.44	7986	200		39.93			200		0
4-Nitrotoluene	27.44	9602	200		48.01			200		0
3-Nitrotoluene	29.58	9394	200		46.97			200		0
Nitroglycerin			200		0	16.45	12767	200		63.835
PETN			200		0	33.19	6111	200		30.555
3,5-Dinitroaniline	14.56	20374	200		101.87			200		0
EGDN			200		0			200		0

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/2/2010 9:05 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d
Lab Smp Id: CS_06 09GCSV0482 83
Inj Date : 01-MAR-2010 22:01
Operator : NS Inst ID: LC10.i
Smp Info : CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:01 Cal File: A-000015.d
Als bottle: 66 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.457	166216	25936	0.156	8.16		2 HMX
8.047	189677	18350	0.097	5.77		3 RDX
8.730	1631	159	0.098	0.05		
9.234	591132	42896	0.073	13.61		5 Picric ACID
10.624	407448	32235	0.079	10.15		6 1,3,5-Trinitrobenze
11.860	1644	86	0.052	0.02		
13.670	488611	31365	0.064	9.87		7 1,3-Dinitrobenzene
14.560	335467	20374	0.061	6.41		8 3,5-Dinitroaniline
15.170	289540	18187	0.063	5.72		9 TETRYL
15.527	259183	14816	0.057	4.66		10 Nitrobenzene
17.417	336323	18851	0.056	5.93		12 2,4,6-Trinitrotolue
18.194	257823	13722	0.053	4.32		13 4-AM-2,6-DNT
18.784	169956	9276	0.055	2.92	$	1 3,4-Dinitrotoluene
19.327	325914	15663	0.048	4.93		14 2-AM-4,6-DNT
21.070	220190	10842	0.049	3.41		15 2,6-Dinitrotoluene
21.850	386688	17751	0.046	5.59		16 2,4-Dinitrotoluene
25.444	208911	7986	0.038	2.51		17 2-Nitrotoluene
27.440	270259	9602	0.036	3.02		18 4-Nitrotoluene
29.584	284175	9394	0.033	2.95		19 3-Nitrotoluene
	5190789	317491		100.000		

Total unknown % height = 0.07000

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d

Date : 01-MAR-2010 22:01

Client ID:

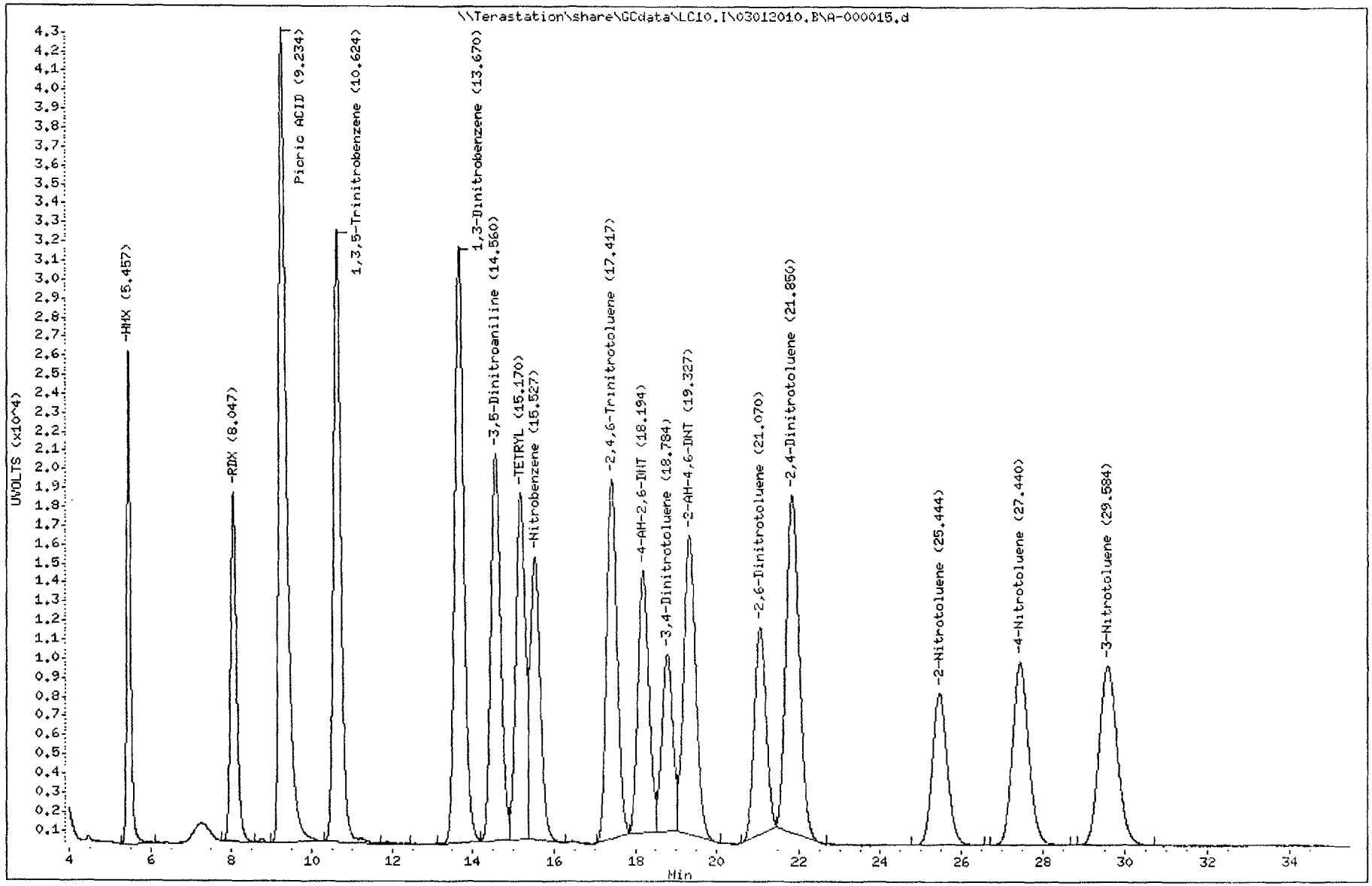
Instrument: LC10.i

Sample Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL:1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015
Lab Smp Id: CS_06 09GCSV0482 83
Inj Date : 01-MAR-2010 22:01
Operator : NS Inst ID: LC10.i
Smp Info : CS_06 09GCSV0482 8330 ICAL L6 200ng/mL;1
Misc Info : ;6; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:05 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:01 Cal File: A-000015.d
Als bottle: 66 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
9.234	877907	63395	0.072	19.19		5 Picric ACID
10.604	7563	502	0.066	0.15		
13.670	251870	16263	0.065	4.90		
14.560	352985	21428	0.061	6.46		
15.170	390872	24641	0.063	7.42		
15.530	411489	23218	0.056	7.00		
16.454	217083	12767	0.059	3.84		11 Nitroglycerin
17.417	374262	20442	0.055	6.16		
18.194	411896	21054	0.051	6.34		
18.780	370374	19015	0.051	5.73	$	1 3,4-Dinitrotoluene
19.324	363092	16897	0.047	5.09		
21.070	421536	19456	0.046	5.86		
21.850	338306	14649	0.043	4.41		
25.447	503563	19242	0.038	5.80		
27.447	392412	13998	0.036	4.22		
29.580	556077	18569	0.033	5.59		
33.194	224921	6111	0.027	1.84		20 PETN
	6466209	331647		100.000		

Total unknown % height = 69.40

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000015.d\A-000015.d

Date : 01-MAR-2010 22:01

Client ID:

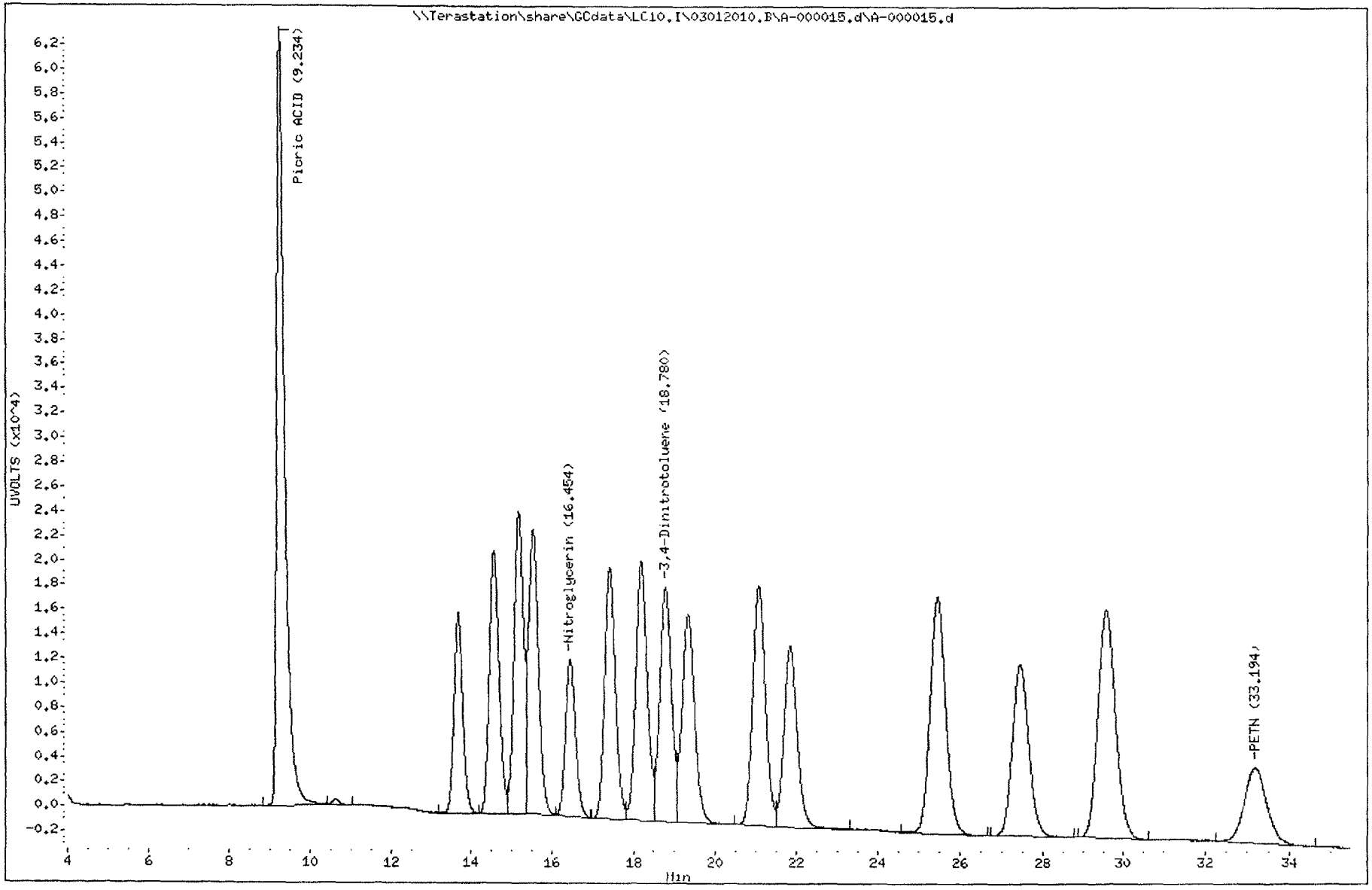
Instrument: LC10.1

Sample Info: CS_06 09GCSV0482 8330 ICAL L6 200ng/mL:1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000016.D

Chromatography Summary

Injection Date: 3/1/2010 22:49 **Operator:** NS

DataFile: LC10 I\03012010.B\A-000016.D **Vial Num:** 67

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_07 10GCSV0050 8330 ICAL L7 500ng/mL**

Method File: LC10.I\03012010.B\8330AB M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Misc. Info: ;7, ; ; ,3;CAL.sub; ;0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.77	15143	300		50.47666667	18.77	28557	300		95.19
HMX	5.45	62615	500		125.23			500		0
RDX	8.02	41614	500		83.228			500		0
Picric ACID	9.16	80007	1000		80.007	9.16	118234	1000		118.234
1,3,5-Trinitrobenzene	10.60	76711	500		153.422			500		0
1,3-Dinitrobenzene	13.65	73699	500		147.398			500		0
TETRYL	15.17	42860	500		85.72			500		0
Nitrobenzene	15.51	35969	500		71.938			500		0
2,4,6-Trinitrotoluene	17.41	46415	500		92.83			500		0
4-AM-2,6-DNT	18.18	34807	500		69.614			500		0
2-AM-4,6-DNT	19.31	39096	500		78.192			500		0
2,6-Dinitrotoluene	21.06	27792	500		55.584			500		0
2,4-Dinitrotoluene	21.83	45016	500		90.032			500		0
2-Nitrotoluene	25.43	19577	500		39.154			500		0
4-Nitrotoluene	27.43	23579	500		47.158			500		0
3-Nitrotoluene	29.56	23281	500		46.562			500		0
Nitroglycerin			500		0	16.45	31894	500		63.788
PETN			500		0	33.18	15365	500		30.73
3,5-Dinitroaniline	14.55	48271	500		96.542			500		0
EGDN			500		0			500		0

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/2/2010 9:13 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d
Lab Smp Id: CS_07 10GCSV0050 83
Inj Date : 01-MAR-2010 22:49
Operator : NS Inst ID: LC10.i
Smp Info : CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1
Misc Info : ;7; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:49 Cal File: A-000016.d
Als bottle: 67 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.451	416901	62615	0.150	8.49		2 HMX
8.024	480570	41614	0.087	5.64		3 RDX
8.731	3125	314	0.100	0.04		
9.165	1211667	80007	0.066	10.94		5 Picric ACID
10.605	1035221	76711	0.074	10.40		6 1,3,5-Trinitrobenze
11.848	1527	100	0.066	0.01		
13.655	1252608	73699	0.059	9.99		7 1,3-Dinitrobenzene
14.548	871282	48271	0.055	6.54		8 3,5-Dinitroaniline
15.168	708842	42860	0.060	5.81		9 TETRYL
15.508	678947	35969	0.053	4.87		10 Nitrobenzene
16.441	12261	474	0.039	0.06		
17.408	880489	46415	0.053	6.29		12 2,4,6-Trinitrotolue
18.181	728730	34807	0.048	4.72		13 4-AM-2,6-DNT
18.771	295106	15143	0.051	2.05	$	1 3,4-Dinitrotoluene
19.308	895530	39096	0.044	5.30		14 2-AM-4,6-DNT
21.058	624449	27792	0.045	3.76		15 2,6-Dinitrotoluene
21.835	1077151	45016	0.042	6.10		16 2,4-Dinitrotoluene
25.435	527736	19577	0.037	2.65		17 2-Nitrotoluene
27.435	681957	23579	0.035	3.19		18 4-Nitrotoluene
29.565	724652	23281	0.032	3.15		19 3-Nitrotoluene
33.008	394	56	0.142	0.00		
	13109141	737396		100.000		

Total unknown % height = 0.1100

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d

Page 2

Date : 01-MAR-2010 22:49

Client ID:

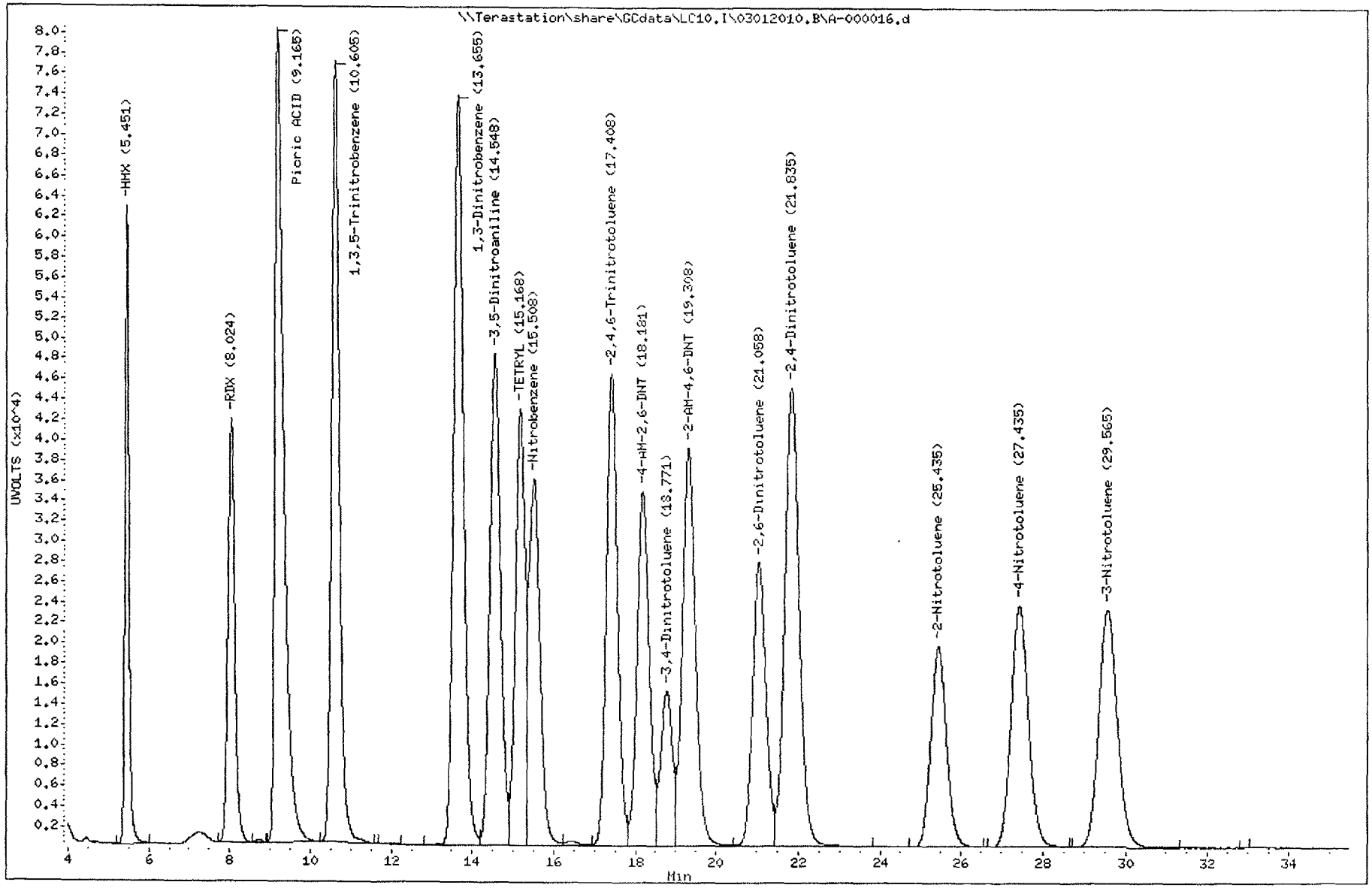
Instrument: LC10.1

Sample Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d\A-000016
Lab Smp Id: CS_07 10GCSV0050 83
Inj Date : 01-MAR-2010 22:49
Operator : NS Inst ID: LC10.i
Smp Info : CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1
Misc Info : ;7; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 22:49 Cal File: A-000016.d
Als bottle: 67 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.485	1226	134	0.109	0.01		
9.165	1801880	118234	0.066	15.92	5	Picric ACID
10.601	18148	1185	0.065	0.15		
13.655	634901	38065	0.060	5.09		
14.548	888354	50040	0.056	6.69		
15.168	920443	56978	0.062	7.62		
15.508	1035218	55007	0.053	7.36		
16.448	556361	31894	0.057	4.26	11	Nitroglycerin
17.408	925782	49266	0.053	6.59		
18.181	1051955	50896	0.048	6.81		
18.768	569495	28557	0.050	3.82	$ 1	3,4-Dinitrotoluene
19.308	920348	40623	0.044	5.43		
21.058	1064633	47412	0.045	6.34		
21.835	858571	35861	0.042	4.79		
24.598	268	47	0.175	0.00		
25.431	1265176	46976	0.037	6.28		
27.435	989216	34437	0.035	4.60		
29.568	1436953	46330	0.032	6.19		
33.181	561924	15365	0.027	2.05	20	PETN
	15500852	747307		100.000		

Total unknown % height = 73.95

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000016.d\A-000016.d

Date : 01-MAR-2010 22:49

Client ID:

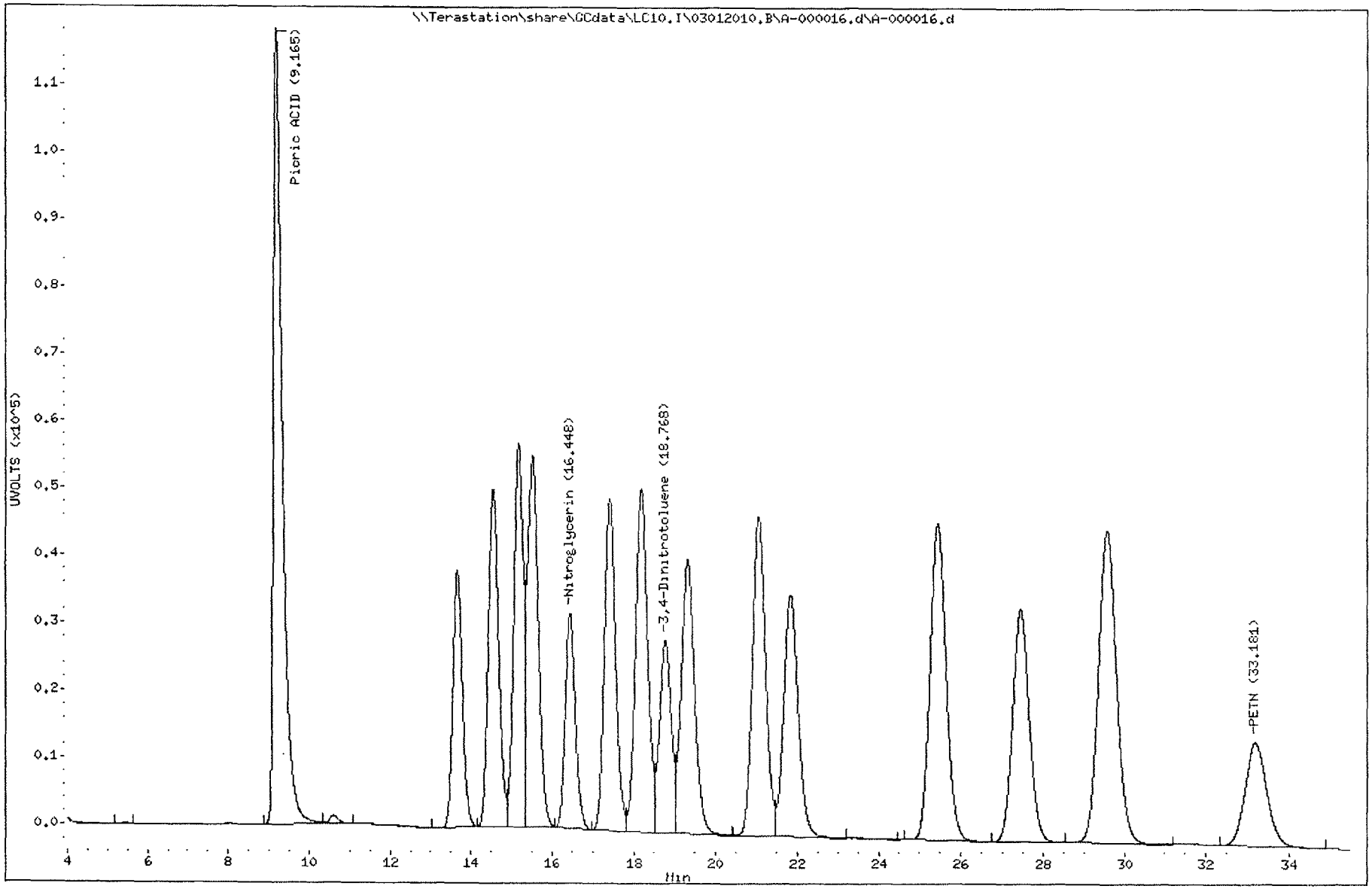
Instrument: LC10.i

Sample Info: CS_07 10GCSV0050 8330 ICAL L7 500ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

A-000017.D

Chromatography Summary

Injection Date: 3/1/2010 23:38 **Operator:** NS

DataFile: LC10 I\03012010 B\A-000017.D **Vial Num:** 68

Instrument ID: LC10

Method 8330 Target Analyte Results

Sample : **CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL**

Method File: LC10.I\03012010.B\8330AB.M

Start Cal Date: 3/1/2010 17:59 **End Cal Date:** 3/1/2010 23:38

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL sub **SpikeList:**

Samp. Info: CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL,1

Misc. Info: ,8; ; ; ;3,CAL sub; ;0,1

	Synergi Hydro-RP C18(250nm-265nm)					Synergi Hydro-RP C18(358nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	18.72	24230	500	O	48.46	18.72	45462	500		90.924
HMX	5.43	113959	1000		113.959			1000		0
RDX	7.98	69009	1000		69.009			1000		0
Picric ACID	9.05	140424	2000		70.212	9.05	207615	2000		103.8075
1,3,5-Trinitrobenzene	10.57	138309	1000		138.309			1000		0
1,3-Dinitrobenzene	13.60	129439	1000		129.439			1000		0
TETRYL	15.13	82698	1000		82.698			1000		0
Nitrobenzene	15.44	65004	1000		65.004			1000		0
2,4,6-Trinitrotoluene	17.37	87754	1000		87.754			1000		0
4-AM-2,6-DNT	18.12	63160	1000		63.16			1000		0
2-AM-4,6-DNT	19.24	70541	1000		70.541			1000		0
2,6-Dinitrotoluene	21.00	51559	1000		51.559			1000		0
2,4-Dinitrotoluene	21.78	83626	1000		83.626			1000		0
2-Nitrotoluene	25.38	36496	1000		36.496			1000		0
4-Nitrotoluene	27.38	44327	1000		44.327			1000		0
3-Nitrotoluene	29.52	43900	1000		43.9			1000		0
Nitroglycerin			1000		0	16.40	58641	1000		58.641
PETN			1000		0	33.18	29443	1000		29.443
3,5-Dinitroaniline	14.48	83803	1000		83.803			1000		0
EGDN			1000		0			1000		0

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/2/2010 9:13 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d
Lab Smp Id: CS_8 10GCSV0051 833
Inj Date : 01-MAR-2010 23:38
Operator : NS Inst ID: LC10.i
Smp Info : CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1
Misc Info : ;8; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 68 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.427	827431	113959	0.138	8.56		2 HMX
7.981	952597	69009	0.072	5.18		3 RDX
8.691	5167	488	0.094	0.03		
9.047	2441773	140424	0.058	10.67		5 Picric ACID
10.567	2048475	138309	0.068	10.40		6 1,3,5-Trinitrobenze
11.704	2378	130	0.055	0.00		
12.737	105	32	0.305	0.00		
13.601	2473570	129439	0.052	9.73		7 1,3-Dinitrobenzene
14.484	1724514	83803	0.049	6.30		8 3,5-Dinitroaniline
15.127	1459896	82698	0.057	6.21		9 TETRYL
15.437	1289673	65004	0.050	4.88		10 Nitrobenzene
16.384	20053	821	0.041	0.06		
17.367	1740145	87754	0.050	6.59		12 2,4,6-Trinitrotolue
18.117	1447688	63160	0.044	4.74		13 4-AM-2,6-DNT
18.717	479754	24230	0.051	1.82	$	1 3,4-Dinitrotoluene
19.244	1783414	70541	0.040	5.30		14 2-AM-4,6-DNT
21.004	1228917	51559	0.042	3.87		15 2,6-Dinitrotoluene
21.784	2134514	83626	0.039	6.28		16 2,4-Dinitrotoluene
25.377	1045252	36496	0.035	2.74		17 2-Nitrotoluene
27.384	1350743	44327	0.033	3.33		18 4-Nitrotoluene
29.524	1430938	43900	0.031	3.30		19 3-Nitrotoluene
33.121	6765	174	0.026	0.01		
	25893762	1329883		100.000		

Total unknown % height = 0.1000

Data File: \\Terastation\share\GCdata\LC10,I\03012010,B\A-000017.d

Date : 01-MAR-2010 23:38

Client ID:

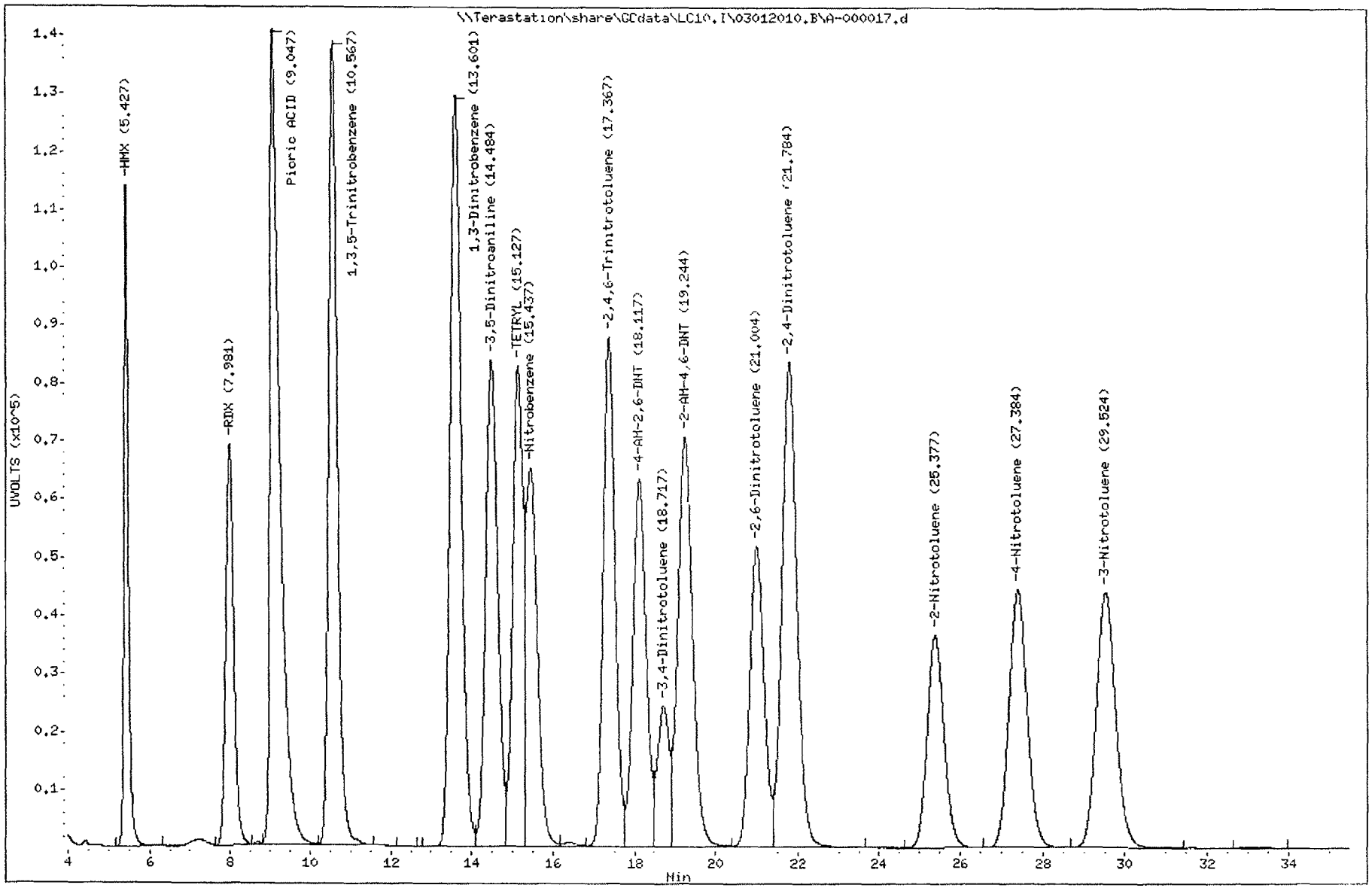
Instrument: LC10,1

Sample Info: CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017
Lab Smp Id: CS_8 10GCSV0051 833
Inj Date : 01-MAR-2010 23:38
Operator : NS Inst ID: LC10.i
Smp Info : CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1
Misc Info : ;8; ; ; ;3;CAL.sub; ;0;1
Comment : SOP SAC-LC-0009
Method : \\terastation\share\GCdata\LC10.I\03012010.B\8330AB.M\83302.m
Meth Date : 02-Mar-2010 09:06 shafern Quant Type: AREA%
Cal Date : 01-MAR-2010 23:38 Cal File: A-000017.d
Als bottle: 68 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
5.447	1758	206	0.117	0.01		
9.047	3637561	207615	0.057	15.38		5 Picric ACID
10.571	37430	2140	0.057	0.15		
13.601	1240595	66569	0.054	4.90		
14.484	1731770	86220	0.050	6.35		
15.127	1874057	109833	0.059	8.09		
15.444	1974943	98419	0.050	7.25		
16.401	1064874	58641	0.055	4.32		11 Nitroglycerin
17.367	1824539	93001	0.051	6.85		
18.117	2091139	92202	0.044	6.79		
18.717	934453	45462	0.049	3.34	$	1 3,4-Dinitrotoluene
19.241	1843762	73481	0.040	5.41		
21.004	2100182	87867	0.042	6.47		
21.784	1707651	66631	0.039	4.90		
24.551	1208	115	0.095	0.00		
25.377	2506382	87542	0.035	6.44		
27.384	1957874	64603	0.033	4.75		
29.524	2846434	87440	0.031	6.44		
33.177	1095804	29443	0.027	2.16		20 PETN
	30472416	1357430		100.000		

Total unknown % height = 74.80

Data File: \\Terastation\share\GCdata\LC10.I\03012010.B\A-000017.d\A-000017.d

Date : 01-MAR-2010 23:38

Client ID:

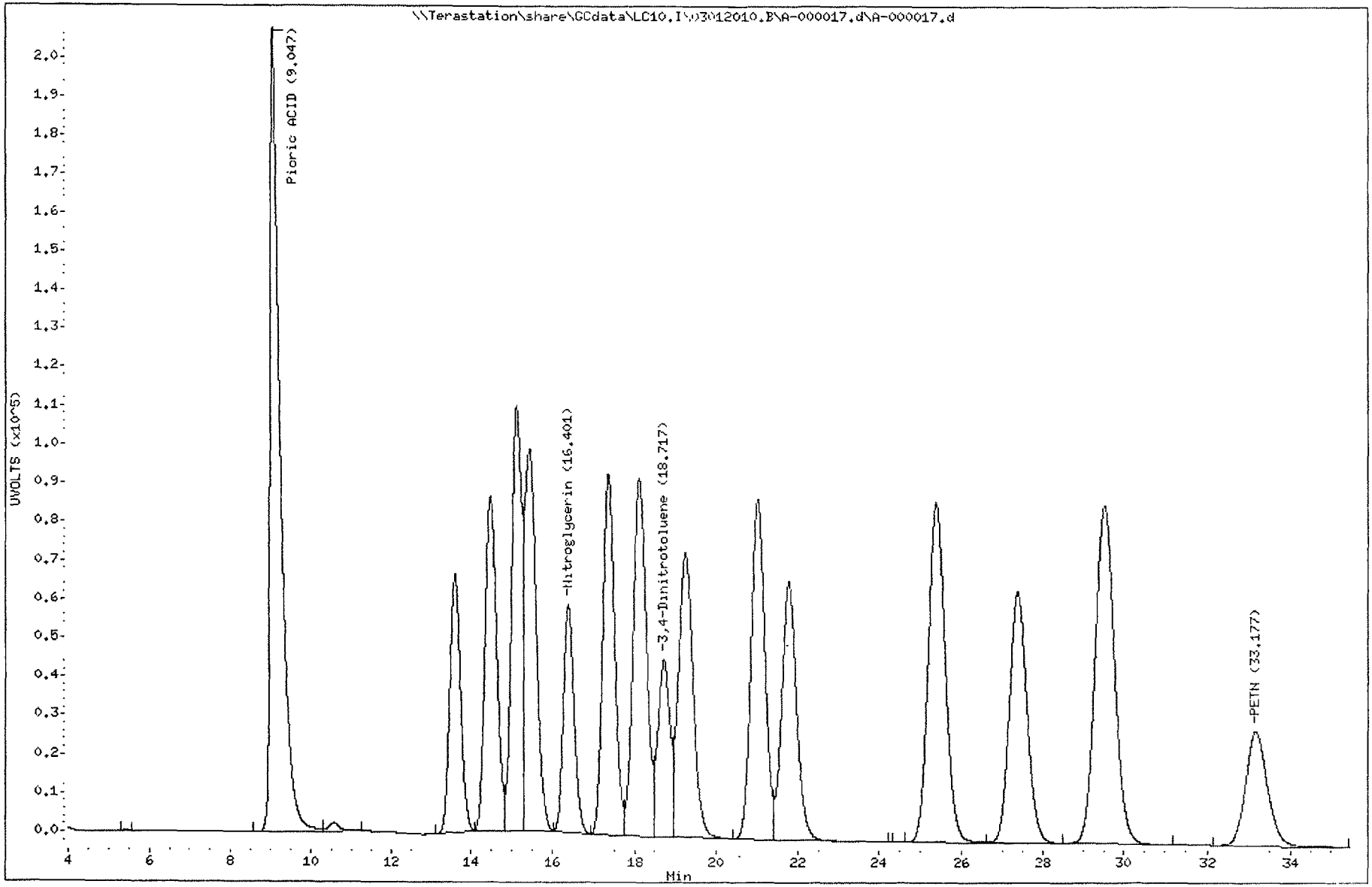
Instrument: LC10.i

Sample Info: CS_8 10GCSV0051 8330 ICAL L8 1000ng/mL;1

Operator: NS

Column phase: SYNERGI HYDRORP C18

Column diameter: 4.60



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

GC/HPLC ICAL Checklist

Instrument ID: LC9-CN ICAL ID: 03032010 Method: 8330

Analytes Included in curve (with dates): 8330 All, NB, PETN, 3,5 DNA

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	✓	✓	
2. ICAL Runlog included.	✓	✓	
3. ICV Included and moved to after summary.	✓	✓	
4. PEM meets requirements and is included for 8081.			✓
5. Alkane Marker included for 8015 TPH.			✓
6. ICAL Raw Data included for all analytes.	✓	✓	
B. ICAL Summary			
1. All analytes meet %RSD or linear regression requirements.	✓	✓	
2. ICAL meets requirements stated in SOP.	✓	✓	
2. Any levels dropped are reviewed and appropriate.			✓
3. All analytes in ICAL are in the ICAL summary.	✓	✓	
4. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			✓
2. All peaks correctly identified.	✓	✓	
3. No analytes have saturated peaks.	✓	✓	
4. RT windows set correctly (8015 TPH).			✓
5. ICV meets requirements and is run after the ICAL.	✓	✓	
6. Standards used in ICAL are current.	✓	✓	
7. ICAL is copied to source method.	✓	✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	✓		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	✓		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

Analyst: [signature] Date: 3/4/10

Reviewer: [signature] Date: 3/4/2010

Comments:

Report Date : 04-Mar-2010 10:14 Page 1

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Last Edit : 04-Mar-2010 10:14 shafern

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000004.d
Level 2: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000005.d
Level 3: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000006.d
Level 4: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000007.d
Level 5: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000008.d
Level 6: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000009.d
Level 7: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000010.d
Level 8: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000011.d

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
2 TNX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
3 DNX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
4 HMX	42.00000	42.00000	39.55000	40.30000	38.36000	38.14000	37.78800	34.70100	AVRG		39.10738		6.18657	

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Last Edit : 04-Mar-2010 10:14 shafern

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
5 MNX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
6 EGDN	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
7 RDX	38.40000	37.10000	38.10000	35.58000	34.31000	34.06000	31.93600	27.77800	AVRG		34.65800		10.22367	
8 Picric ACID	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
9 1,3,5-Trinitrobenzene	64.80000	62.90000	63.10000	61.74000	59.17000	59.16000	58.22800	53.70200	AVRG		60.35000		5.85191	
10 1,3-Dinitrobenzene	86.60000	84.90000	84.05000	82.46000	79.38000	79.41500	75.13000	65.65000	AVRG		79.69812		8.47906	
11 3,5-Dinitroaniline	59.60000	57.60000	58.70000	56.66000	54.48000	54.27500	51.76400	45.35600	AVRG		54.80438		8.39955	

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Last Edit : 04-Mar-2010 10:14 shafern

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200 0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
12 TETRYL	138	144	138	142	133	147					
	137	130					AVRG		139		4.05740
13 Nitrobenzene	38.60000	40.70000	41.95000	40 64000	39 22000	39.09500					
	35.95200	30.55000					AVRG		38.33838		9.44015
14 Nitroglycerin	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
15 2,4,6-Trinitrotoluene	50.40000	48.50000	47.10000	48.86000	45 77000	47.18500					
	46.53400	43.92800					AVRG		47.28463		4 21707
16 4-AM-2,6-DNT	378	578	1082	2205	3964	8014					
	20320	39783					LINR	-4.65787	39.70529		0 99989
17 2-AM-4,6-DNT	83.20000	70.90000	69.80000	64.38000	61 05000	61.34000					
	59.22000	53.74000					AVRG		65.45375		13.87115
18 2,6-Dinitrotoluene	41.80000	40.90000	40.15000	37.16000	35.66000	35.13000					
	35.12800	31.30900					AVRG		37.15713		9.60663

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Last Edit : 04-Mar-2010 10:14 shafern

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
19 2,4-Dinitrotoluene	64.40000	63.70000	64.65000	61.76000	59.69000	59 53000						
	57.53000	52.13500					AVRG		60.42437		6.98244	
20 2-Nitrotoluene	17.10000	19.00000	19.75000	18.29000	17.45500	17.55250						
	17.14700	15.68900					AVRG		17.74794		7.06764	
21 4-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0 000e+000		0.000e+000	<-
22 3-Nitrotoluene	25.00000	27.90000	28.55000	26.42000	25.17000	25.18500						3/4/2010
	24.26000	22.63400					AVRG		25.63988		7.51112	
23 PETN	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	
$ 1 3,4-Dinitrotoluene	+++++	33.90000	29.65000	31.48000	32.27000	30.66000						
	31.27000	28.59000					AVRG		31.11714		5.56257	

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Last Edit : 04-Mar-2010 10:14 shafern

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Report Date: 04-Mar-2010 10:00

Calibration History

Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M
Start Cal Date: 03-MAR-2010 19:39
End Cal Date : 04-MAR-2010 03:18
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
03-MAR-2010 19:39	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000004.d
Cal Level: 2 , Cal Amount: 10.00000		
03-MAR-2010 20:45	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000005.d
Cal Level: 3 , Cal Amount: 20.00000		
03-MAR-2010 21:50	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000006.d
Cal Level: 4 , Cal Amount: 50.00000		
03-MAR-2010 22:56	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d
Cal Level: 5 , Cal Amount: 100.00000		
04-MAR-2010 00:01	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d
Cal Level: 6 , Cal Amount: 200.00000		
04-MAR-2010 01:07	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d
Cal Level: 7 , Cal Amount: 500.00000		
04-MAR-2010 02:12	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d
Cal Level: 8 , Cal Amount: 1000.00000		

04-MAR-2010 03:18	CAL	
\\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d		

Continuing Calibration
Ccal Level Mode: BY SAMPLE

04-MAR-2010 06:34	CAL	
\\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d		
04-MAR-2010 05:29	CAL	
\\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d		
04-MAR-2010 00:01	CAL	
\\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d		

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 20:45
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\
Last Edit : 04-Mar-2010 09:46 tap
Curve Type : Average

Calibration File Names:
Level 2: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000005.d\C-000
Level 3: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000006.d\C-000
Level 4: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000007.d\C-000
Level 5: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000008.d\C-000
Level 6: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000009.d\C-000
Level 7: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000010.d\C-000
Level 8: \\Terastation\share\GCdata\GCdata\LC9.I\03032010.B\C-000011.d\C-000

Compound	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	500.000 Level 7	1000.000 Level 8	RRF	% RSD
2 TNX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 DNX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 HMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 MNX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 EGDN	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 RDX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Picric ACID	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 1,3,5-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 20:45
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\
Last Edit : 04-Mar-2010 09:46 tap
Curve Type : Average

Compound	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	500.000 Level 7	1000.000 Level 8	RRF	% RSD
10 1,3-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 3,5-Dinitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 TETRYL	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Nitroglycerin	+++++	44.30000	47.20000	48.56000	50.20500	50.82400	48.25000	48.22317	4.841
15 2,4,6-Trinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 4-AM-2,6-DNT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 2-AM-4,6-DNT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
18 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 2-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2010 20:45
End Cal Date : 04-MAR-2010 03:18
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\
Last Edit : 04-Mar-2010 09:46 tap
Curve Type : Average

Compound	10.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	500.000 Level 7	1000.000 Level 8	___ RRF	% RSD	
21 4-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 3-Nitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 PETN	+++++	232	220	218	218	221	214	221	2.662	3/4/2010 mw
$ 1 3,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Report Date: 04-Mar-2010 10:00

Calibration History

Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN2.M
Start Cal Date: 03-MAR-2010 20:45
End Cal Date : 04-MAR-2010 03:18
Last Cal Level: 8
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 10.00000		
03-MAR-2010 20:45	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000005.d\C-000005.d
Cal Level: 3 , Cal Amount: 20.00000		
03-MAR-2010 21:50	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000006.d\C-000006.d
Cal Level: 4 , Cal Amount: 50.00000		
03-MAR-2010 22:56	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d\C-000007.d
Cal Level: 5 , Cal Amount: 100.00000		
04-MAR-2010 00:01	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d\C-000008.d
Cal Level: 6 , Cal Amount: 200.00000		
04-MAR-2010 01:07	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d\C-000009.d
Cal Level: 7 , Cal Amount: 500.00000		
04-MAR-2010 02:12	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d\C-000010.d
Cal Level: 8 , Cal Amount: 1000.00000		
04-MAR-2010 03:18	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d\C-000011.d

Continuing Calibration

Ccal Level Mode: BY SAMPLE

04-MAR-2010 06:34	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d\C-000014.d
04-MAR-2010 06:34	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d\C-000014.d
04-MAR-2010 05:29	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d\C-000013.d
03-MAR-2010 22:56	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d\C-000007.d
03-MAR-2010 22:56	CAL	\\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d\C-000007.d

TestAmerica West Sacramento

Calibration Standard Level Reference Sheet

8330, 8330A, 8330B

	Concentration (ppb)							
Analyte	Level 1	2	3	4	5	6	7	8
3,4-Dinitrotoluene (surr)		10	20	50	100	200	300	500
HMX	5	10	20	50	100	200	500	1000
MNX	5	10	20	50	100	200	500	1000
DNX	5	10	20	50	100	200	500	1000
TNX	5	10	20	50	100	200	500	1000
RDX	5	10	20	50	100	200	500	1000
1,3,5-Trinitrobenzene	5	10	20	50	100	200	500	1000
1,3-Dinitrotoluene	5	10	20	50	100	200	500	1000
3.5-Dinitroaniline	5	10	20	50	100	200	500	1000
TETRYL	5	10	20	50	100	200	500	1000
Nitrobenzene	5	10	20	50	100	200	500	1000
2,4,6-Trinitrotoluene	5	10	20	50	100	200	500	1000
4-Amino-2,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2-Amino-4,6-dinitrotoluene	5	10	20	50	100	200	500	1000
2,6-Dinitrotoluene	5	10	20	50	100	200	500	1000
2,4-Dinitrotoluene	5	10	20	50	100	200	500	1000
2-Nitrotoluene	5	10	20	50	100	200	500	1000
4-Nitrotoluene	5	10	20	50	100	200	500	1000
3-Nitrotoluene	5	10	20	50	100	200	500	1000
Picric Acid			50	100	200	500	1000	2000
Nitroglycerin			20	50	100	200	500	1000
PETN			20	50	100	200	500	1000
EGDN			20	50	100	200	500	1000

Revision Date 12/11/09

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Inst ID: LC9 Batch ID: 03032010
Method : Method 8330 Test : SOP WS-LC-0009
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
03-MAR-2010	16:22	NS	8330 Primer L6	C-000001.	0 g	0 mL	1	
03-MAR-2010	17:28	NS	8330 Primer L6	C-000002.	0 g	0 mL	1	
03-MAR-2010	18:34	NS	BLANK	C-000003.	0 g	0 mL	1	
03-MAR-2010	19:39	NS	8330 10GCSV0046 ICAL L1	C-000004.	0 g	0 mL	1	
03-MAR-2010	20:45	NS	8330 10GCSV0047 ICAL L2	C-000005.	0 g	0 mL	1	
03-MAR-2010	21:50	NS	8330 10GCSV0048 ICAL L3	C-000006.	0 g	0 mL	1	
03-MAR-2010	22:56	NS	8330 10GCSV0049 ICAL L4	C-000007.	0 g	0 mL	1	
04-MAR-2010	00:01	NS	8330 10GCSV0072 ICAL L5	C-000008.	0 g	0 mL	1	
04-MAR-2010	01:07	NS	8330 09GCSV0482 ICAL L6	C-000009.	0 g	0 mL	1	
04-MAR-2010	02:12	NS	8330 10GCSV0050 ICAL L7	C-000010.	0 g	0 mL	1	
04-MAR-2010	03:18	NS	8330 10GCSV0051 ICAL L8	C-000011.	0 g	0 mL	1	
04-MAR-2010	04:23	NS	BLANK	C-000012.	0 g	0 mL	1	
04-MAR-2010	05:29	NS	8330 10GCSV0058 ICV Std L5	C-000013	0 g	0 mL	1	
04-MAR-2010	06:34	NS	8330 10GCSV0074 MRL 5-50 ng/mL	C-000014.	0 g	0 mL	1	
04-MAR-2010	07:40	NS	8330 Primer L6	C-000015.	0 g	0 mL	1	
04-MAR-2010	08:45	NS	STD_06 09GCSV0482 8330 200-500	C-000016.	0 g	0 mL	1	

- printed before end of sequence -

MB 3/4/10

TestAmerica West Sacramento

C-000013.D

Chromatography Summary

Injection Date: 3/4/2010 5:29 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000013.D **Vial Num:** 89

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0058 ICV Std L5**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0058 ICV Std L5;2

Misc. Info: ;5,,,,3:CAL.sub;;0;0;

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	**36.71**	**71**	**2.2820<**	**200**	**-99%**	**Fails**					**200**	**-100%**	**Fails**		(±15)	45
HMX	41.09	8317	212.7000<	200	6%	Acceptable					200	-100%	Fails		(±15)	45
RDX	28.26	6889	198.8000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
Picric ACID				**500**	**-100%**	**Fails**					**500**	**-100%**	**Fails**		(±15)	
1,3,5-Trinitrobenzene	22.43	11978	198.5000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.59	16105	202.1000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
TETRYL	46.70	28255	203.8000<	200	2%	Acceptable					200	-100%	Fails		(±15)	45
Nitrobenzene	18.21	8024	209.3000<	200	5%	Acceptable					200	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	38.13	9579	202.6000<	200	1%	Acceptable					200	-100%	Fails		(±15)	45
4-AM-2,6-DNT	34.10	8586	211.6000<	200	6%	Acceptable					200	-100%	Fails		(±15)	45
2-AM-4,6-DNT	33.30	12780	195.2000<	200	-2%	Acceptable					200	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	31.03	7362	198.1000<	200	-1%	Acceptable					200	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.69	12449	206.0000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
2-Nitrotoluene	25.91	7282	410.3000	400	3%	Acceptable					400	-100%	Fails		(±15)	45
4-Nitrotoluene				**400**	**-100%**	**Fails**					**400**	**-100%**	**Fails**		(±15)	
3-Nitrotoluene	26.57	5277	205.8000<	200	3%	Acceptable					200	-100%	Fails		(±15)	45
Nitroglycerin				**200**	**-100%**	**Fails**		44.95	10833	224.6000	200	12%	Acceptable		(±15)	45
PETN				**200**	**-100%**	**Fails**		49.96	49927	226.4000<	200	13%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.45	11064	201.9000	200	1%	Acceptable					200	-100%	Fails		(±15)	45
EGDN				**200**	**-100%**	**Fails**					**200**	**-100%**	**Fails**		(±15)	

Not Spiked

MR 3/4/10

ICV passes ±15%

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 10:18 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d
Lab Smp Id: 8330 10GCSV0058 ICV
Inj Date : 04-MAR-2010 05:29
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0058 ICV Std L5;2
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:48 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 89 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
18.214	1225330	8024	0.007	5.09		13 Nitrobenzene
20.588	2568830	16105	0.006	10.22		10 1,3-Dinitrobenzene
22.432	2130639	11978	0.006	7.60		9 1,3,5-Trinitrobenze
25.909	1402778	7282	0.005	4.62		20 2-Nitrotoluene
26.570	798048	5277	0.007	3.35		22 3-Nitrotoluene
27.453	1775451	11064	0.006	7.02		11 3,5-Dinitroaniline
28.259	1043969	6889	0.007	4.37		7 RDX
29.687	2142784	12449	0.006	7.90		19 2,4-Dinitrotoluene
31.025	1329778	7362	0.006	4.67		18 2,6-Dinitrotoluene
33.300	1755367	12780	0.007	8.11		17 2-AM-4,6-DNT
34.103	1506178	8586	0.006	5.45		16 4-AM-2,6-DNT
36.049	3066	42	0.014	0.02		
36.714	12183	71	0.006	0.04	$	1 3,4-Dinitrotoluene
38.130	1790108	9579	0.005	6.08		15 2,4,6-Trinitrotolue
41.089	920683	8317	0.009	5.28		4 HMX
42.076	2672	37	0.014	0.02		
43.745	2770	22	0.008	0.01		
44.938	13732	101	0.007	0.06		
46.701	1506553	28255	0.019	18.08		12 TETRYL
47.467	14671	178	0.012	0.11		
48.332	42871	319	0.007	0.20		
48.875	32049	373	0.012	0.23		
49.047	12259	241	0.020	0.15		
49.299	18702	286	0.015	0.18		
49.965	56724	622	0.011	0.39		
50.427	14594	179	0.012	0.11		
51.437	53808	833	0.015	0.52		
52.113	13163	193	0.015	0.12		
	22189760	157444		100.000		

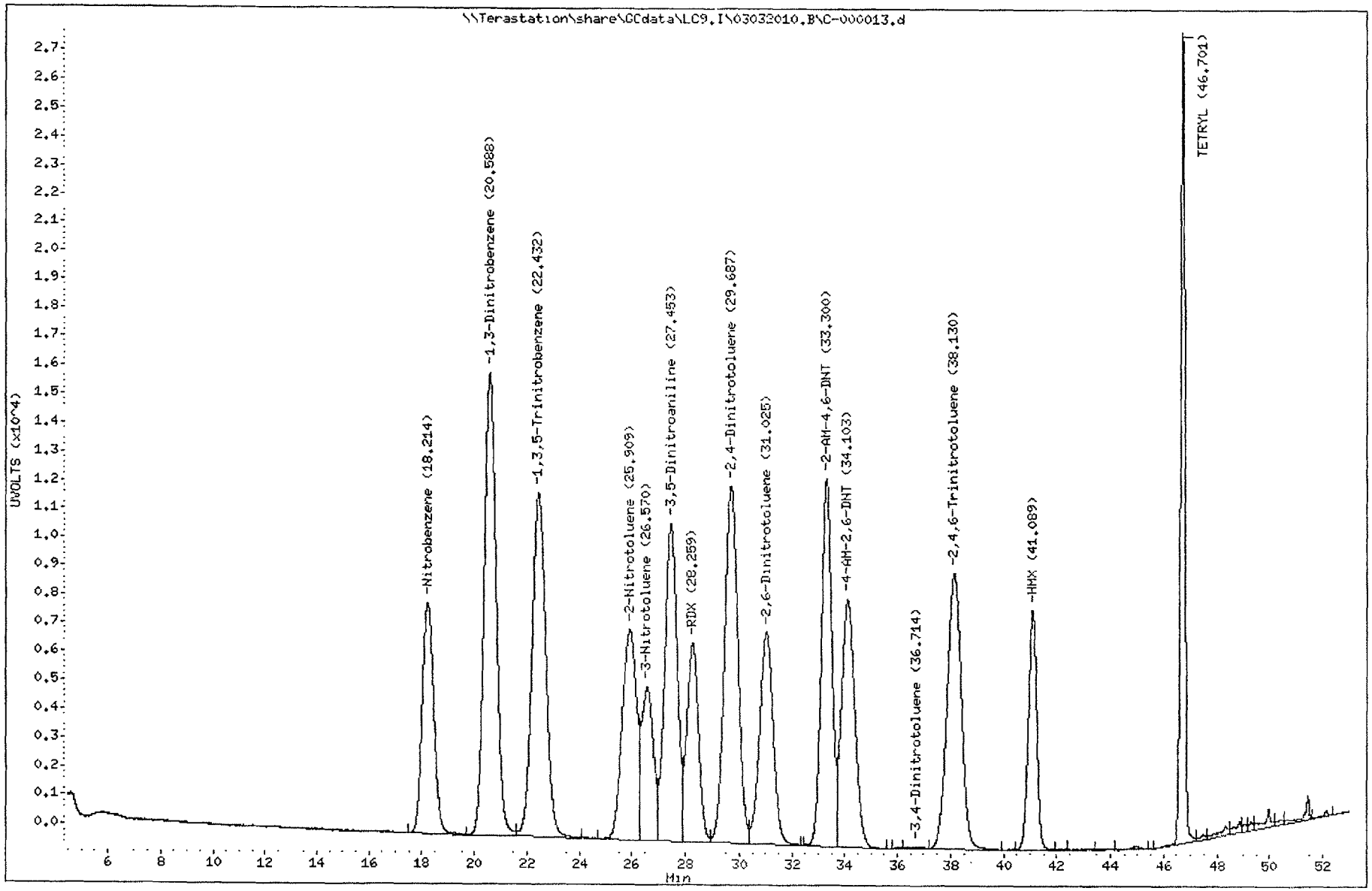
Total unknown % height = 2.120

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d
Date : 04-MAR-2010 05:29
Client ID:
Sample Info: 8330 10GCSV0058 ICV Std L5;2

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d\C-000013.
Lab Smp Id: 8330 10GCSV0058 ICV
Inj Date : 04-MAR-2010 05:29
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0058 ICV Std L5;2
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:48 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 89 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.946	1216199	10833	0.009	17.31	14 Nitroglycerin
49.294	55072	1264	0.023	2.02	
49.692	49922	532	0.011	0.85	
49.963	1366568	49927	0.037	79.82	23 PETN
	2687761	62556		100.000	

Total unknown % height = 2.870

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000013.d\C-000013.d

Date : 04-MAR-2010 05:29

Client ID:

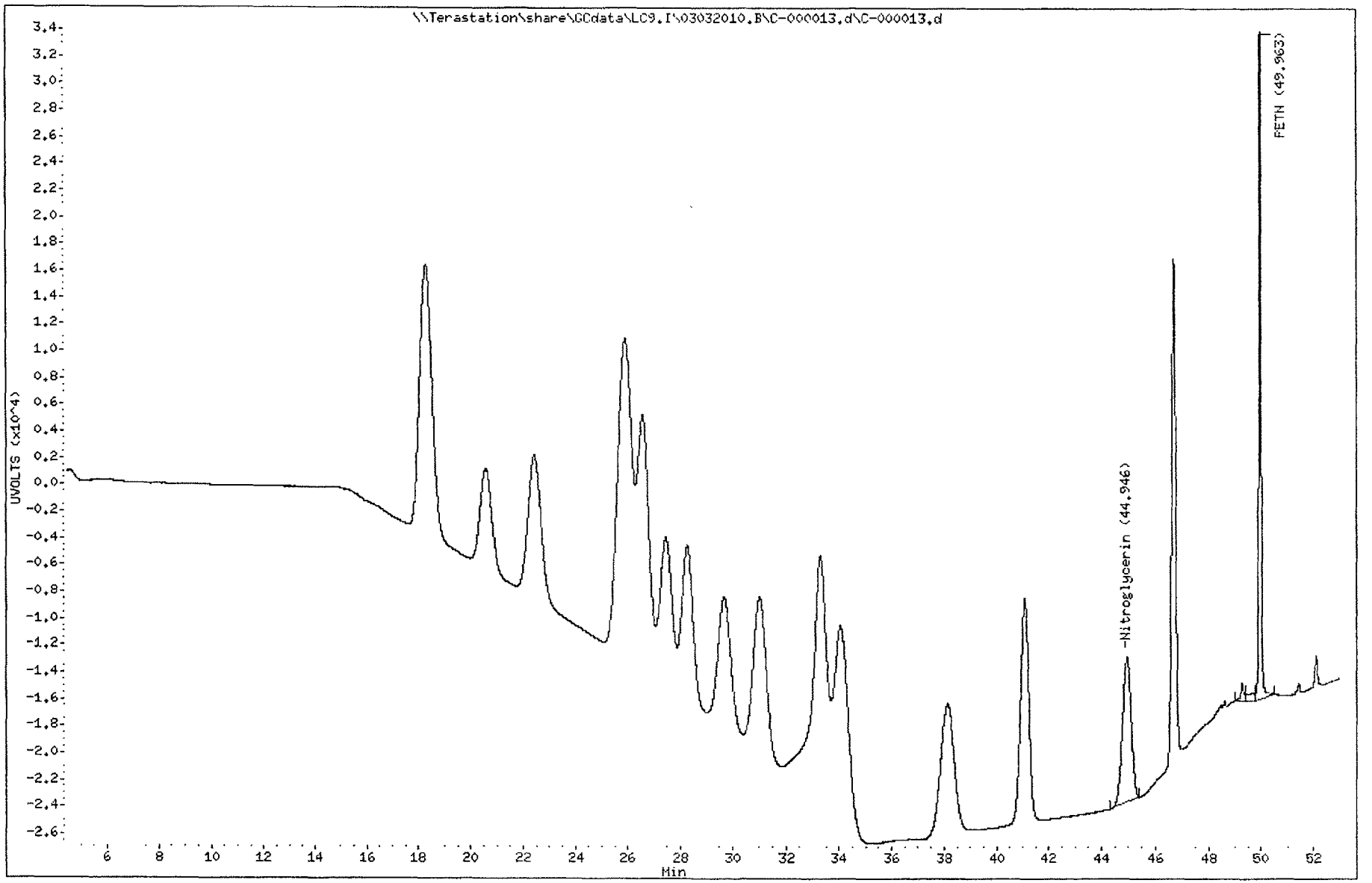
Instrument: LC9.i

Sample Info: 8330 10GCSV0058 ICV Std L5;2

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000014.D

Chromatography Summary

Injection Date: 3/4/2010 6:34 **Operator:** NS

DataFile: LC9 I\03032010.B\C-000014.D **Vial Num:** 90

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0074 MRL 5-50 ng/mL**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0074 MRL 5-50 ng/mL;2

Misc. Info: ,5,,,,;3;CAL.sub,;0;0;

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
3,4-Dinitrotoluene	36.72	617	19.8300<	20	-1%	Acceptable					20	-100%	Fails		(±15)	45
HMX	41.02	215	5.4980<	5	10%	Acceptable					5	-100%	Fails		(±15)	45
RDX	**28.11**	**206**	**5.9440<**	**5**	**19%**	**Fails**					5	-100%	Fails		(±15)	45
Picric ACID				**50**	**-100%**	**Fails**					50	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22.37	314	5.2030<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.52	391	4.9060<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
TETRYL	46.69	656	4.7310<	5	-5%	Acceptable					5	-100%	Fails		(±15)	45
Nitrobenzene	18.05	196	5.1120<	5	2%	Acceptable					5	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	38.08	247	5.2240<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
4-AM-2,6-DNT	33.95	359	4.3840<	5	-12%	Acceptable					5	-100%	Fails		(±15)	45
2-AM-4,6-DNT	**33.26**	**384**	**5.8670<**	**5**	**17%**	**Fails**					5	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	**30.96**	**227**	**6.1090<**	**5**	**22%**	**Fails**					5	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.57	330	5.4610<	5	9%	Acceptable					5	-100%	Fails		(±15)	45
2-Nitrotoluene	25.79	202	11.3800	10	14%	Acceptable					10	-100%	Fails		(±15)	45
4-Nitrotoluene				**5**	**-100%**	**Fails**					5	-100%	Fails		(±15)	
3-Nitrotoluene	**26.45**	**160**	**6.2400<**	**5**	**25%**	**Fails**					5	-100%	Fails		(±15)	45
Nitroglycerin				**20**	**-100%**	**Fails**		44.93	876	18.1600	20	-9%	Acceptable		(±15)	45
PETN				**20**	**-100%**	**Fails**		49.96	4561	20.6800<	20	3%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.37	300	5.4740	5	9%	Acceptable					5	-100%	Fails		(±15)	45
EGDN				**20**	**-100%**	**Fails**					20	-100%	Fails		(±15)	

MRL passes S/N 5:1

mr 3/4/10

Notes: M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/4/2010 10:18 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d
Lab Smp Id: 8330 10GCSV0074 MRL
Inj Date : 04-MAR-2010 06:34
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0074 MRL 5-50 ng/mL;2
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:46 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 90 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

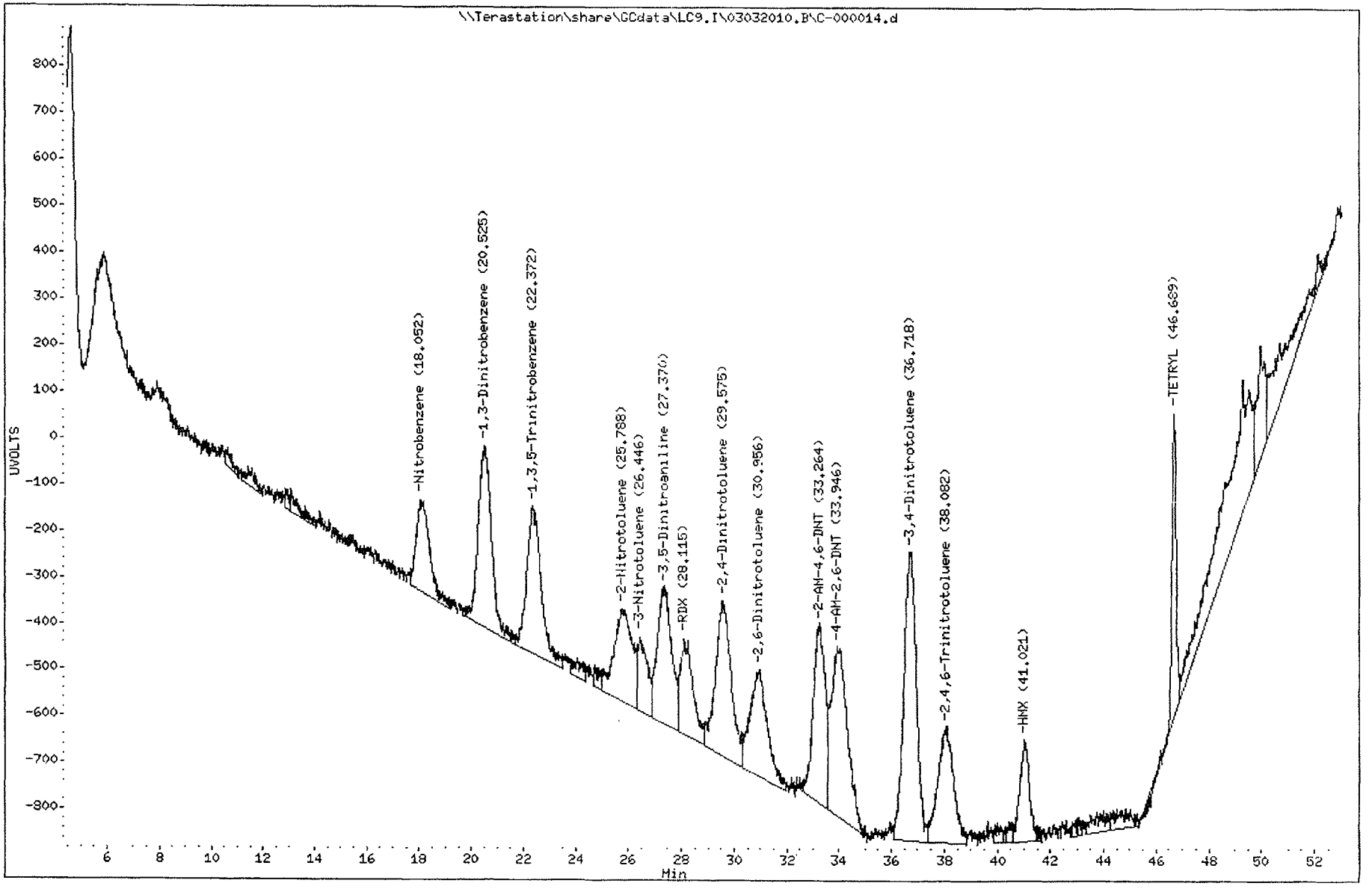
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
10.622	3056	42	0.014	0.72		
11.437	4571	28	0.006	0.48		
12.913	2533	30	0.012	0.51		
13.116	5050	44	0.009	0.75		
18.052	36006	196	0.005	3.36	13	Nitrobenzene
20.525	69630	391	0.006	6.71	10	1,3-Dinitrobenzene
22.372	62650	314	0.005	5.39	9	1,3,5-Trinitrobenze
24.067	4429	39	0.009	0.66		
24.818	3193	45	0.014	0.77		
25.788	49284	202	0.004	3.46	20	2-Nitrotoluene
26.446	20558	160	0.008	2.74	22	3-Nitrotoluene
27.370	56089	300	0.005	5.15	11	3,5-Dinitroaniline
28.115	35452	206	0.006	3.53	7	RDX
29.575	70016	330	0.005	5.66	19	2,4-Dinitrotoluene
30.956	51190	227	0.004	3.89	18	2,6-Dinitrotoluene
33.264	60328	384	0.006	6.59	17	2-AM-4,6-DNT
33.946	78460	359	0.005	6.16	16	4-AM-2,6-DNT
36.718	102431	617	0.006	10.59	$ 1	3,4-Dinitrotoluene
38.082	50841	247	0.005	4.24	15	2,4,6-Trinitrotolue
40.010	3570	40	0.011	0.68		
40.458	2602	42	0.016	0.72		
41.021	27909	215	0.008	3.69	4	HMX
43.074	2520	35	0.014	0.60		
44.163	7723	36	0.005	0.61		
44.530	8205	38	0.005	0.65		
46.689	34951	656	0.019	11.42	12	TETRYL
49.291	108934	287	0.003	4.92		
49.975	25620	243	0.009	4.17		
52.138	44925	69	0.002	1.18		
	1032726	5822		100.000		

Total unknown % height = 17.42

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d
Date : 04-MAR-2010 06:34
Client ID:
Sample Info: 8330 10GCSV0074 MRL 5-50 ng/mL;2

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



2451

North Canton

TestAmerica West Sacramento

C-000014.D

Chromatography Summary

Injection Date: 3/4/2010 6:34 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000014.D **Vial Num:** 90

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0074 MRL 5-50 ng/mL**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0074 MRL 5-50 ng/mL;2

Misc. Info: ;5;,,;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)							Zorbax Cyano(250nm-205nm)								
Compound Name	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**RT**	**Response**	**PPB**	**Spike Level**	**%D**	**Result**	**Flag**	**Limits(%)**	**Flag**
3,4-Dinitrotoluene	36.72	617	19.8300<	20	-1%	Acceptable					20	-100%	Fails		(±15)	45
HMX	41.02	215	5.4980<	5	10%	Acceptable					5	-100%	Fails		(±15)	45
RDX	**28.11**	**206**	**5.9440<**	**5**	**19%**	**Fails**					5	-100%	Fails		(±15)	45
Picric ACID				**50**	**-100%**	**Fails**					50	-100%	Fails		(±15)	
1,3,5-Trinitrobenzene	22.37	314	5.2030<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
1,3-Dinitrobenzene	20.52	391	4.9060<	5	-2%	Acceptable					5	-100%	Fails		(±15)	45
TETRYL	46.69	656	4.7310<	5	-5%	Acceptable					5	-100%	Fails		(±15)	45
Nitrobenzene	18.05	196	5.1120<	5	2%	Acceptable					5	-100%	Fails		(±15)	45
2,4,6-Trinitrotoluene	38.08	247	5.2240<	5	4%	Acceptable					5	-100%	Fails		(±15)	45
4-AM-2,6-DNT	**33.95**	**359**	**7.9490<**	**5**	**59%**	**Fails**					5	-100%	Fails		(±15)	45
2-AM-4,6-DNT	**33.26**	**384**	**5.8670<**	**5**	**17%**	**Fails**					5	-100%	Fails		(±15)	45
2,6-Dinitrotoluene	**30.96**	**227**	**6.1090<**	**5**	**22%**	**Fails**					5	-100%	Fails		(±15)	45
2,4-Dinitrotoluene	29.57	330	5.4610<	5	9%	Acceptable					5	-100%	Fails		(±15)	45
2-Nitrotoluene	25.79	202	11.3800	10	14%	Acceptable					10	-100%	Fails		(±15)	45
4-Nitrotoluene				**5**	**-100%**	**Fails**					5	-100%	Fails		(±15)	
3-Nitrotoluene	**26.45**	**160**	**6.2400<**	**5**	**25%**	**Fails**					5	-100%	Fails		(±15)	45
Nitroglycerin				**20**	**-100%**	**Fails**		44.93	876	18.1600	20	-9%	Acceptable		(±15)	45
PETN				**20**	**-100%**	**Fails**		49.96	4561	20.6800<	20	3%	Acceptable		(±15)	45
3,5-Dinitroaniline	27.37	300	5.4740	5	9%	Acceptable					5	-100%	Fails		(±15)	45
EGDN				**20**	**-100%**	**Fails**					20	-100%	Fails		(±15)	

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/4/2010 9:54 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d\C-000014.
Lab Smp Id: 8330 10GCSV0074 MRL
Inj Date : 04-MAR-2010 06:34
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0074 MRL 5-50 ng/mL;2
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:46 tap Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 90 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.929	90003	876	0.010	11.79	14 Nitroglycerin
49.286	64463	1635	0.025	22.00	
49.620	35337	357	0.010	4.80	
49.960	160510	4561	0.028	61.41	23 PETN
	350312	7429		100.000	

Total unknown % height = 26.80

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000014.d\C-000014.d

Date : 04-MAR-2010 06:34

Client ID:

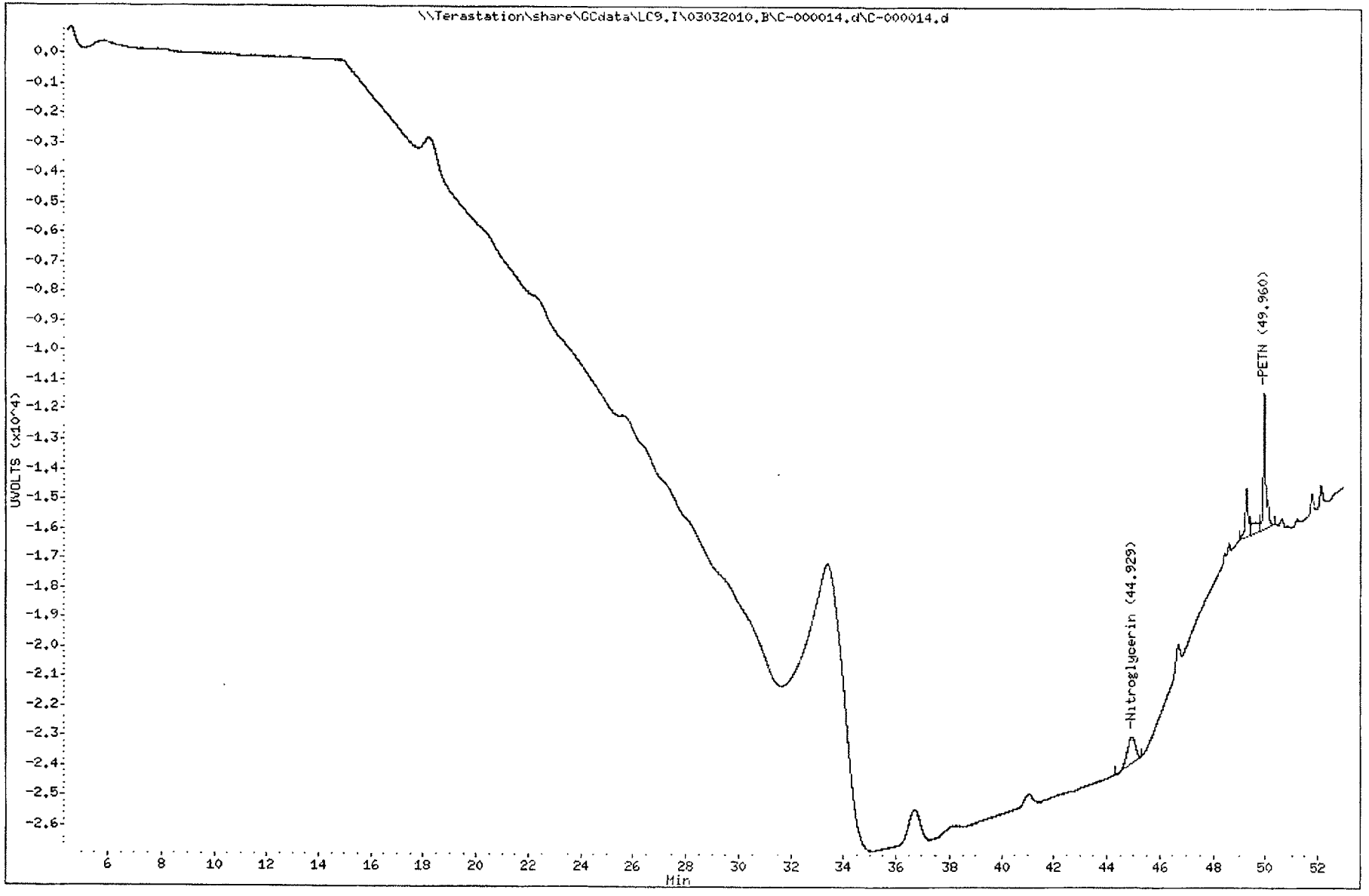
Instrument: LC9.1

Sample Info: 8330 10GCSV0074 MRL 5-50 ng/mL:2

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000004.D

Chromatography Summary

Injection Date: 3/3/2010 19:39 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000004.D **Vial Num:** 81

Method 8330 Target Analyte Results

Instrument ID: LC9

Sample : **8330 10GCSV0046 ICAL L1**

Method File: LC9 I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0046 ICAL L1;1

Misc. Info: ,1;;;,3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene			5		0			5		0
HMX	41.06	210	5		42			5		0
RDX	28.20	192	5		38.4			5		0
Picric ACID			10		0			10		0
1,3,5-Trinitrobenzene	22.42	324	5		64.8			5		0
1,3-Dinitrobenzene	20.56	433	5		86.6			5		0
TETRYL	46.70	692	5		138.4			5		0
Nitrobenzene	18.15	193	5		38.6			5		0
2,4,6-Trinitrotoluene	38.11	252	5		50.4			5		0
4-AM-2,6-DNT	33.99	378	5		75.6			5		0
2-AM-4,6-DNT	33.20	416	5		83.2			5		0
2,6-Dinitrotoluene	30.90	209	5		41.8			5		0
2,4-Dinitrotoluene	29.64	322	5		64.4			5		0
2-Nitrotoluene	25.84	171	10		17.1			10		0
4-Nitrotoluene			10		0			10		0
3-Nitrotoluene	26.49	125	5		25			5		0
Nitroglycerin			5		0			5		0
PETN			5		0			5		0
3,5-Dinitroaniline	27.41	298	5		59.6			5		0
EGDN			5		0			5		0

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/4/2010 9:56 AM

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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000004.d
Lab Smp Id: 8330 10GCSV0046 ICA
Inj Date : 03-MAR-2010 19:39
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0046 ICAL L1;1
Misc Info : ;1;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:27 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 19:39 Cal File: C-000004.d
Als bottle: 81 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
18.148	29023	193	0.007	3.53	13 Nitrobenzene
20.559	70366	433	0.006	7.93	10 1,3-Dinitrobenzene
22.418	59883	324	0.005	5.94	9 1,3,5-Trinitrobenze
25.836	32084	171	0.005	3.13	20 2-Nitrotoluene
26.489	18910	125	0.007	2.29	22 3-Nitrotoluene
27.409	48442	298	0.006	5.46	11 3,5-Dinitroaniline
28.202	30296	192	0.006	3.52	7 RDX
29.644	56871	322	0.006	5.90	19 2,4-Dinitrotoluene
30.900	39136	209	0.005	3.83	18 2,6-Dinitrotoluene
33.205	63148	416	0.007	7.62	17 2-AM-4,6-DNT
33.987	76349	378	0.005	6.93	16 4-AM-2,6-DNT
36.481	6510	32	0.005	0.58	
38.113	52174	252	0.005	4.62	15 2,4,6-Trinitrotolue
41.057	23319	210	0.009	3.85	4 HMX
43.859	3582	24	0.007	0.44	
44.757	2831	28	0.010	0.51	
46.700	30168	692	0.023	12.76	12 TETRYL
48.613	47412	210	0.004	3.85	
49.300	40301	291	0.007	5.33	
49.519	7909	212	0.027	3.88	
49.745	11425	173	0.015	3.17	
49.999	20527	221	0.011	4.05	
52.141	38380	48	0.001	0.88	
	809048	5454		100.000	

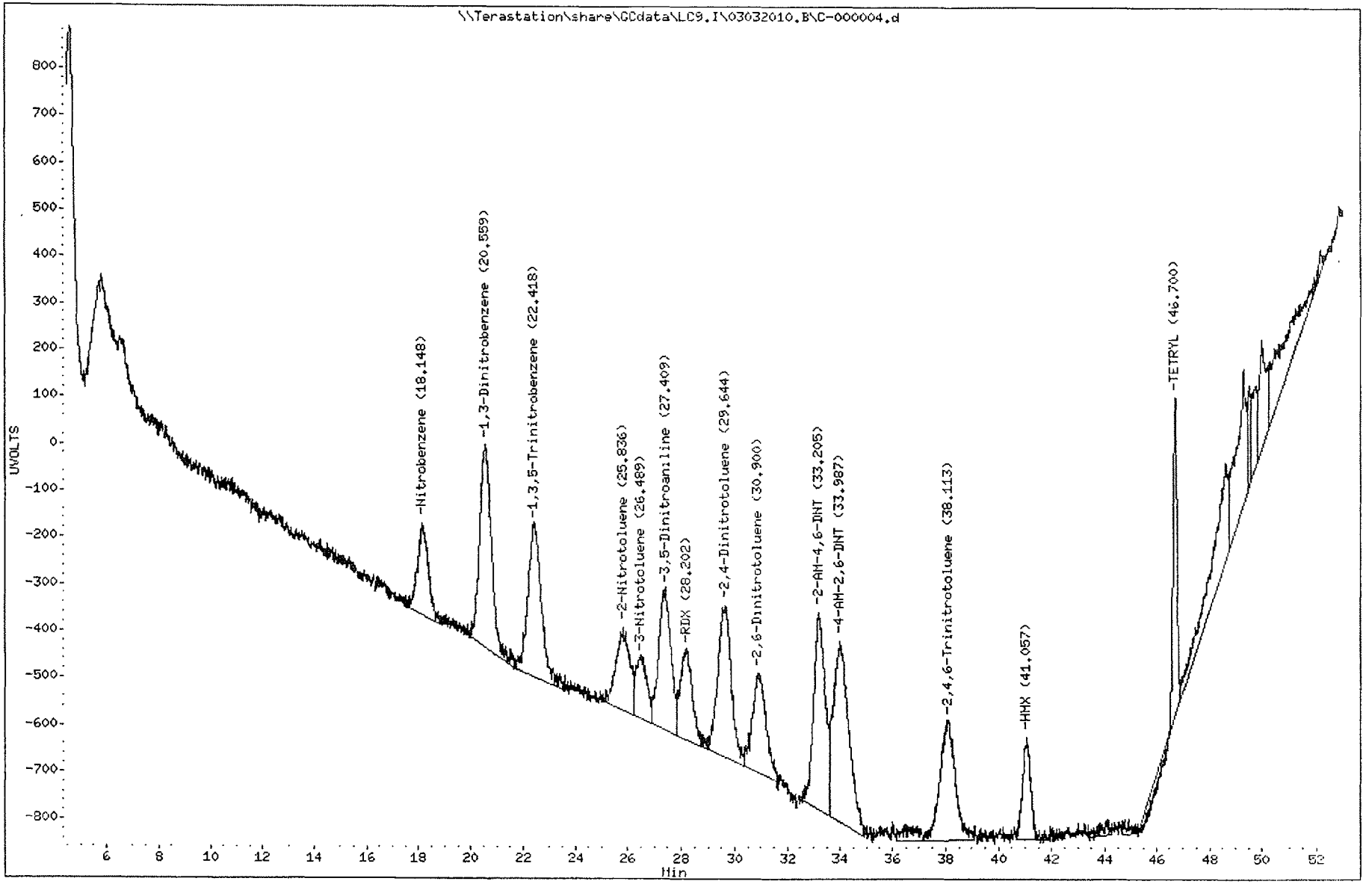
Total unknown % height = 22.69

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000004.d
Date : 03-MAR-2010 19:39
Client ID:
Sample Info: 8330 10GCSV0046 ICAL L1:1

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



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Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000004.d\C-000004.
Lab Smp Id: 8330 10GCSV0046 ICA
Inj Date : 03-MAR-2010 19:39
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0046 ICAL L1;1
Misc Info : ;1;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:21 shafern Quant Type: AREA%
Cal Date : Cal File:
Als bottle: 81 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
49.297	43327	1544	0.036	96.02	
49.696	5322	64	0.012	3.98	
	48649	1608		100.000	

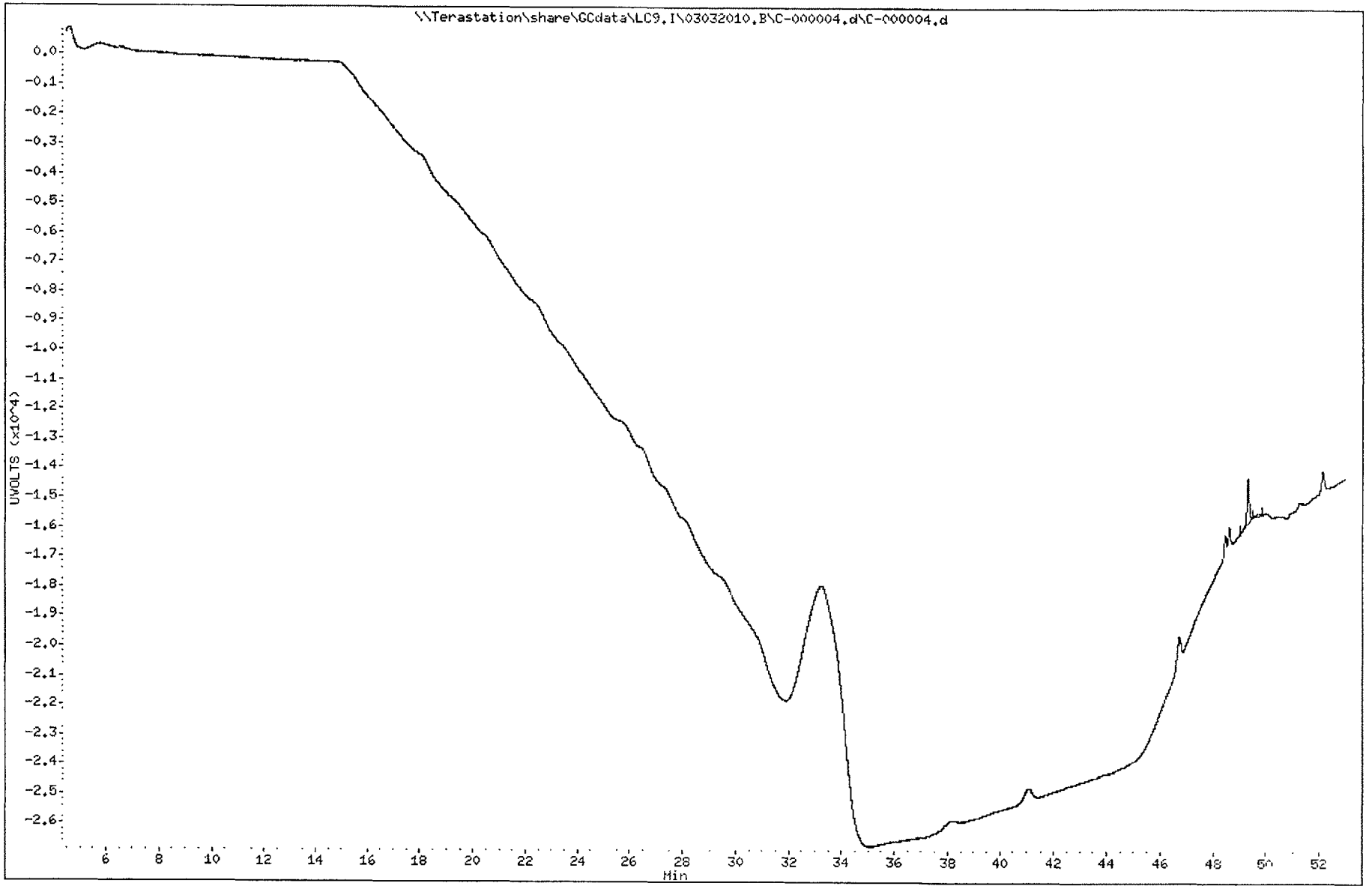
Total unknown % height = 100.0

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000004.d\C-000004.d
Date : 03-MAR-2010 19:39
Client ID:
Sample Info: 8330 10GCSV0046 ICAL L1;1

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

C-000005.D

Chromatography Summary

Injection Date: 3/3/2010 20:45 **Operator:** NS

DataFile: LC9.I\03032010 B\C-000005 D **Vial Num:** 82

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0047 ICAL L2**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/3/2010 20:45

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL sub **SpikeList:**

Samp. Info: 8330 10GCSV0047 ICAL L2;1

Misc. Info: ;2;;;;3;CAL sub;;0.0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.83	339	10		33.9			10		0
HMX	41.17	420	10		42 ✓			10		0
RDX	28.19	371	10		37.1			10		0
Picric ACID			20		0			20		0
1,3,5-Trinitrobenzene	22.41	629	10		62.9			10		0
1,3-Dinitrobenzene	20.53	849	10		84.9			10		0
TETRYL	46.74	1438	10		143.8			10		0
Nitrobenzene	18.16	407	10		40.7			10		0
2,4,6-Trinitrotoluene	38.17	485	10		48.5			10		0
4-AM-2,6-DNT	34.05	578	10		57.8			10		0
2-AM-4,6-DNT	33.28	709	10		70.9			10		0
2,6-Dinitrotoluene	30.98	409	10		40.9			10		0
2,4-Dinitrotoluene	29.63	637	10		63.7			10		0
2-Nitrotoluene	25.82	380	20		19			20		0
4-Nitrotoluene			20		0			20		0
3-Nitrotoluene	26.53	✓ 279	10		27.9			10		0
Nitroglycerin			10		0	45.06	379	10		37.9
PETN			10		0	49.98	2342	10		234.2
3,5-Dinitroaniline	27.37	576	10		57.6			10		0
EGDN			10		0			10		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

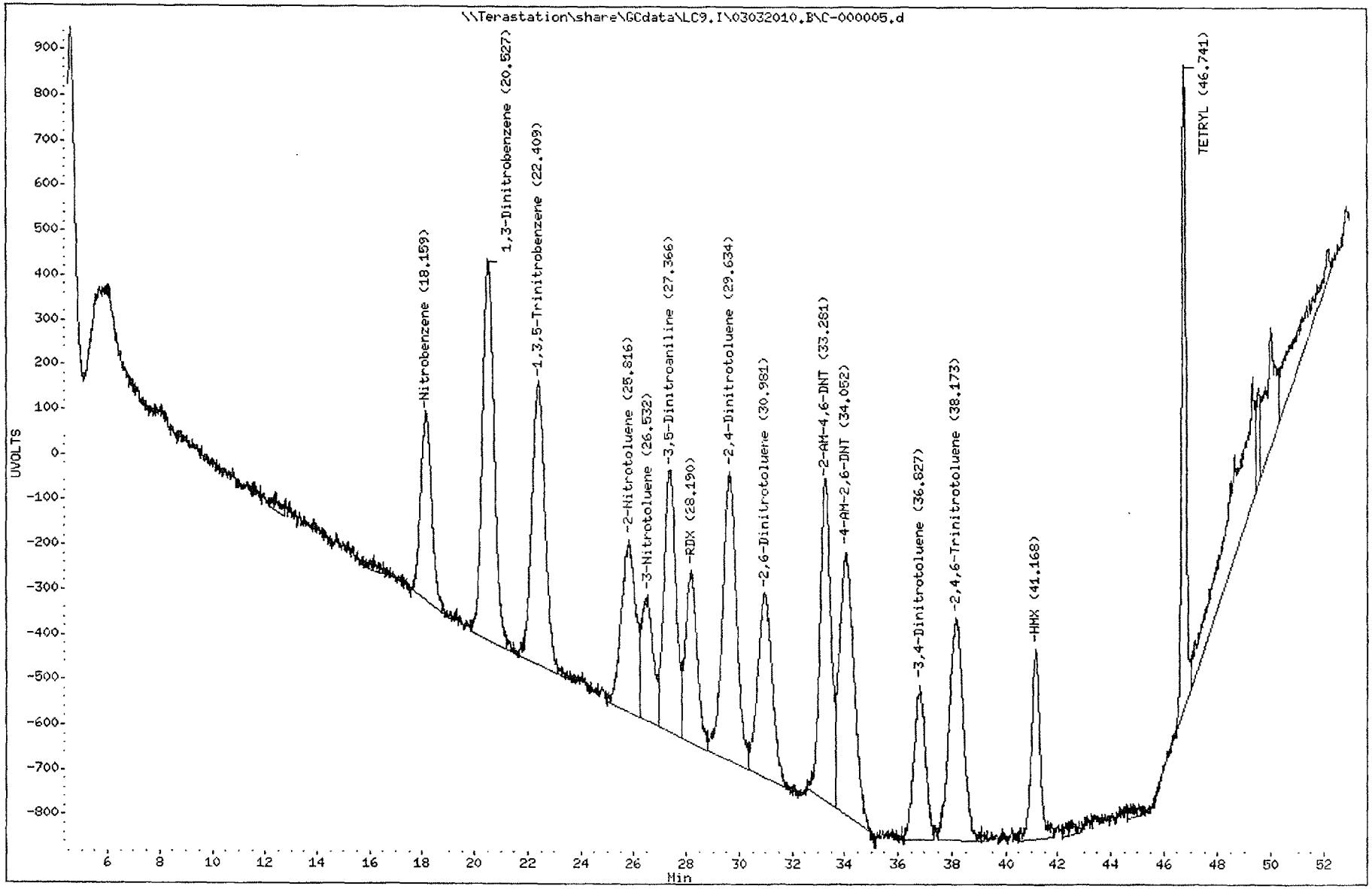
Printed: 3/4/2010 9:29 AM

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000005.d
Date : 03-MAR-2010 20:45
Client ID:
Sample Info: 8330 10GCSV0047 ICAL L2;1

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000005.d\C-000005.
Lab Smp Id: 8330 10GCSV0047 ICA
Inj Date : 03-MAR-2010 20:45
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0047 ICAL L2;1
Misc Info : ;2;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:28 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 20:45 Cal File: C-000005.d
Als bottle: 82 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
45.057	34366	379	0.011	13.40	14 Nitroglycerin
49.683	10242	107	0.010	3.78	
49.977	70429	2342	0.033	82.82	23 PETN
	115036	2828		100.000	

Total unknown % height = 3.780

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000005.d\C-000005.d

Date : 03-MAR-2010 20:45

Client ID:

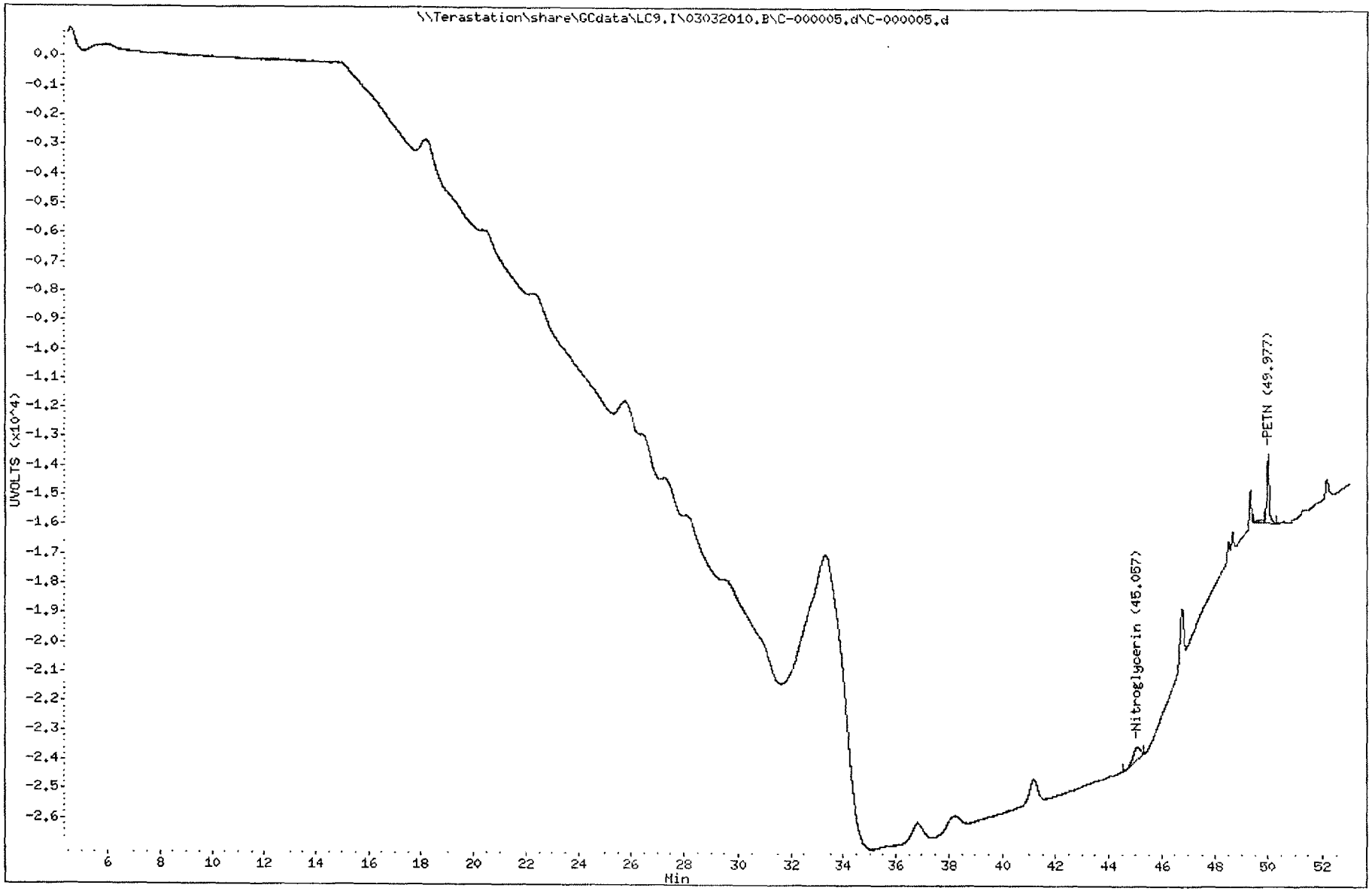
Instrument: LC9.i

Sample Info: 8330 10GCSV0047 ICAL L2:1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000006.D

Chromatography Summary

Injection Date: 3/3/2010 21:50 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000006.D **Vial Num:** 83

Method 8330 Target Analyte Results

Instrument ID: LC9

Sample : 8330 10GCSV0048 ICAL L3

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/3/2010 21:50

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0048 ICAL L3,1

Misc. Info: ,3;;;;3,CAL sub,;0;0,

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.65	593	20		29.65			20		0
HMX	41.03	791	20		39.55			20		0
RDX	28.09	762	20		38.1			20		0
Picric ACID			50		0			50		0
1,3,5-Trinitrobenzene	22.38	1262	20		63.1			20		0
1,3-Dinitrobenzene	20.50	1681	20		84.05			20		0
TETRYL	46.69	2767	20		138.35			20		0
Nitrobenzene	18.12	839	20		41.95			20		0
2,4,6-Trinitrotoluene	38.04	942	20		47.1			20		0
4-AM-2,6-DNT	33.91	1082	20		54.1			20		0
2-AM-4,6-DNT	33.15	1396	20		69.8			20		0
2,6-Dinitrotoluene	30.83	803	20		40.15			20		0
2,4-Dinitrotoluene	29.52	1293	20		64.65			20		0
2-Nitrotoluene	25.73	790	40		19.75			40		0
4-Nitrotoluene			40		0			40		0
3-Nitrotoluene	26.41	571	20		28.55			20		0
Nitroglycerin			20		0	44.95	886	20		44.3
PETN			20		0	49.95	4631	20		231.55
3,5-Dinitroaniline	27.29	1174	20		58.7			20		0
EGDN			20		0			20		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 9:30 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000006.d
Lab Smp Id: 8330 10GCSV0048 ICA
Inj Date : 03-MAR-2010 21:50
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0048 ICAL L3;1
Misc Info : ;3;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:30 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 21:50 Cal File: C-000006.d
Als bottle: 83 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

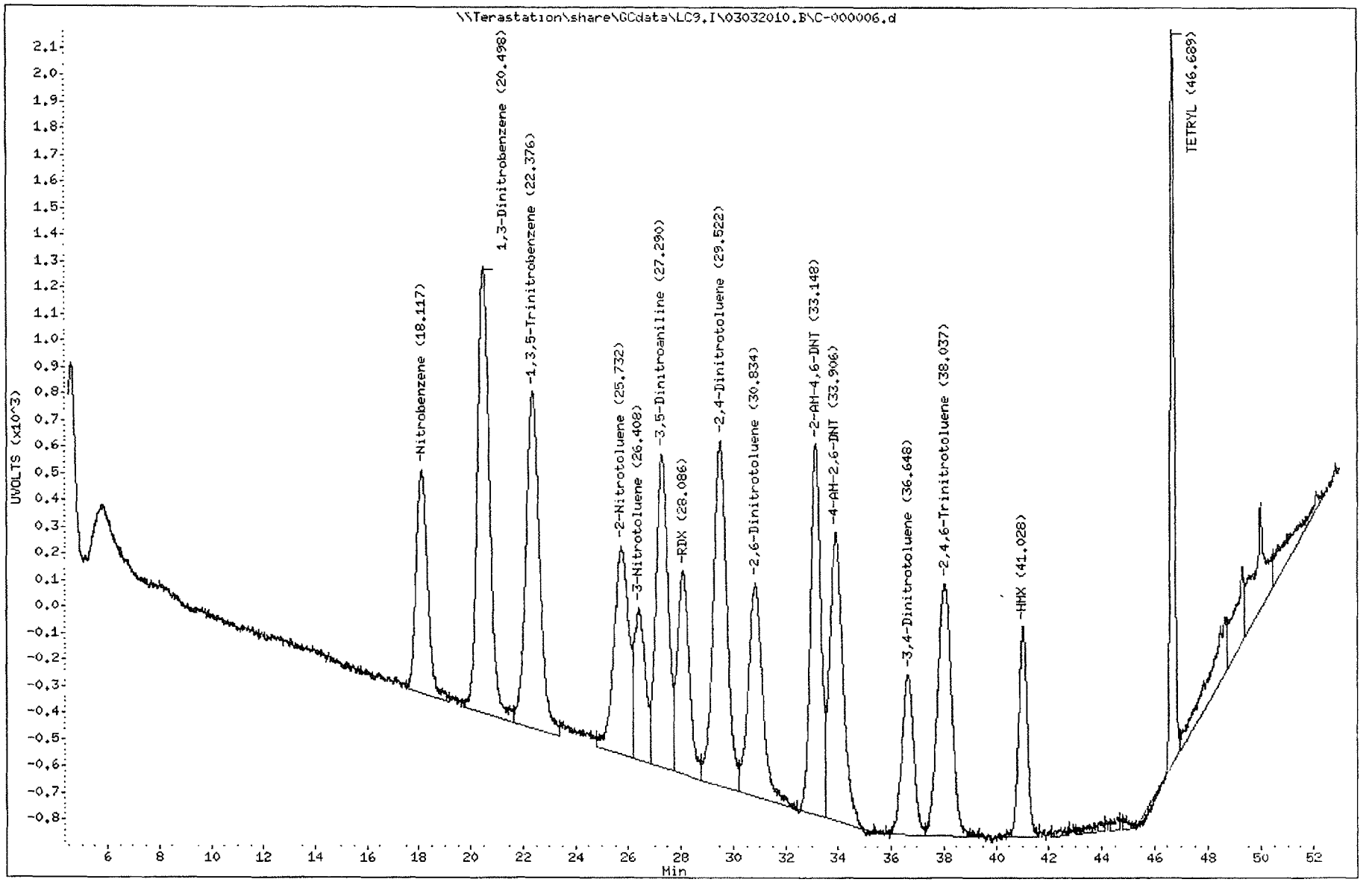
RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
18.117	129021	839	0.007	4.70		13 Nitrobenzene
20.498	268511	1681	0.006	9.41		10 1,3-Dinitrobenzene
22.376	228829	1262	0.006	7.07		9 1,3,5-Trinitrobenze
25.732	158561	790	0.005	4.42		20 2-Nitrotoluene
26.408	83656	571	0.007	3.19		22 3-Nitrotoluene
27.290	186713	1174	0.006	6.57		11 3,5-Dinitroaniline
28.086	121299	762	0.006	4.26		7 RDX
29.522	229841	1293	0.006	7.24		19 2,4-Dinitrotoluene
30.834	152110	803	0.005	4.49		18 2,6-Dinitrotoluene
33.148	189379	1396	0.007	7.82		17 2-AM-4,6-DNT
33.906	189150	1082	0.006	6.06		16 4-AM-2,6-DNT
36.648	92596	593	0.006	3.32	$	1 3,4-Dinitrotoluene
38.037	177686	942	0.005	5.27		15 2,4,6-Trinitrotolue
41.028	89282	791	0.009	4.43		4 HMX
42.442	3085	29	0.009	0.16		
43.917	6922	37	0.005	0.20		
44.586	3744	47	0.013	0.26		
44.825	3924	44	0.011	0.24		
46.689	140453	2767	0.020	15.61		12 TETRYL
48.611	51429	210	0.004	1.17		
49.283	39296	281	0.007	1.57		
49.979	59099	400	0.007	2.24		
52.124	35342	54	0.002	0.30		
	2639927	17848		100.000		

Total unknown % height = 6.140

Data File: \\Terastation\share\GCdata\LC9,I\03032010,B\C-000006.d
Date : 03-MAR-2010 21:50
Client ID:
Sample Info: 8330 10GCSV004S ICAL L3;1

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000006.d\C-000006.
Lab Smp Id: 8330 10GCSV0048 ICA
Inj Date : 03-MAR-2010 21:50
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0048 ICAL L3;1
Misc Info : ;3;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:30 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 21:50 Cal File: C-000006.d
Als bottle: 83 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.949	92753	886	0.010	11.70	14 Nitroglycerin
49.282	63125	1677	0.027	22.15	
49.681	39696	375	0.009	4.95	
49.955	147649	4631	0.031	61.20	23 PETN
	343223	7569		100.000	

Total unknown % height = 27.10

Data File: \\Terastation\share\GCdata\LC9,I\03032010,B\C-000006.d\C-000006.d

Date : 03-MAR-2010 21:50

Client ID:

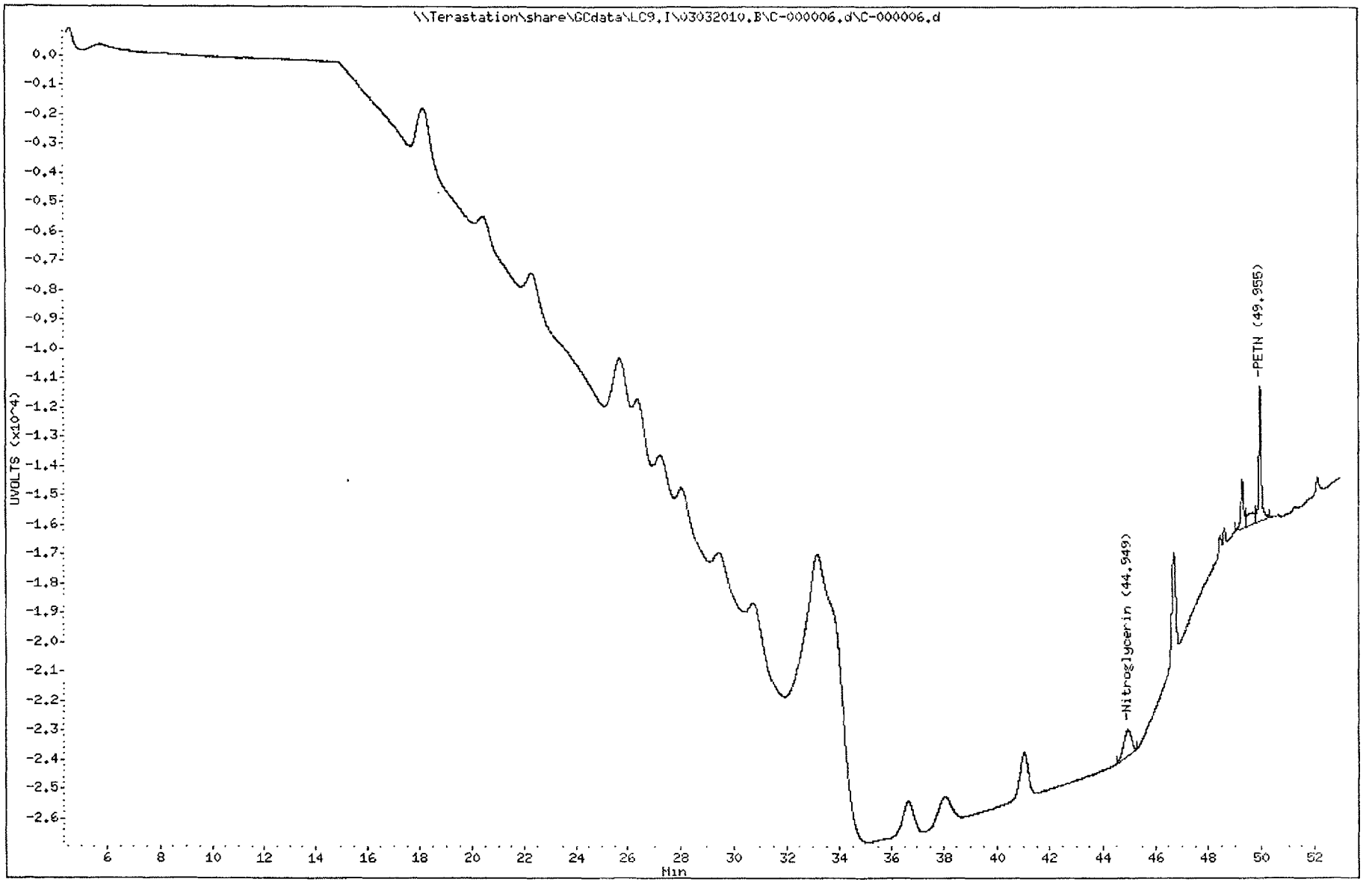
Instrument: LC9,1

Sample Info: 8330 10GCSV0048 ICAL L3;1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000007.D

Chromatography Summary

Injection Date: 3/3/2010 22:56 **Operator:** NS

DataFile: LC9 I\03032010.B\C-000007.D **Vial Num:** 84

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0049 ICAL L4**

Method File: LC9 I\03032010 B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/3/2010 22:56

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0049 ICAL L4;1

Misc. Info: ;4;;;;3,CAL sub;,0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.88	1574	50		31.48			50		0
HMX	41.16	2015	50		40.3 ✓			50		0
RDX	28.27	1779	50		35.58			50		0
Picric ACID			100		0			100		0
1,3,5-Trinitrobenzene	22.45	3087	50		61.74			50		0
1,3-Dinitrobenzene	20.57	4123	50		82.46			50		0
TETRYL	46.73	7092	50		141.84			50		0
Nitrobenzene	18.17	2032	50		40.64			50		0
2,4,6-Trinitrotoluene	38.23	2443	50		48.86			50		0
4-AM-2,6-DNT	34.19	2205	50		44.1			50		0
2-AM-4,6-DNT	33.35	3219	50		64.38			50		0
2,6-Dinitrotoluene	31.07	1859	50		37.18			50		0
2,4-Dinitrotoluene	29.72	3088	50		61.76			50		0
2-Nitrotoluene	25.91	1829	100		18.29			100		0
4-Nitrotoluene			100		0			100		0
3-Nitrotoluene	26.58	✓ 1321	50		26.42			50		0
Nitroglycerin			50		0	45.03	2360	50		47.2
PETN			50		0	49.97	✓11011	50		220.22
3,5-Dinitroaniline	27.46	2833	50		56.66			50		0
EGDN			50		0			50		0

Notes

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/4/2010 9:33 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d
Lab Smp Id: 8330 10GCSV0049 ICA
Inj Date : 03-MAR-2010 22:56
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0049 ICAL L4;1
Misc Info : ;4;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:33 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 22:56 Cal File: C-000007.d
Als bottle: 84 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

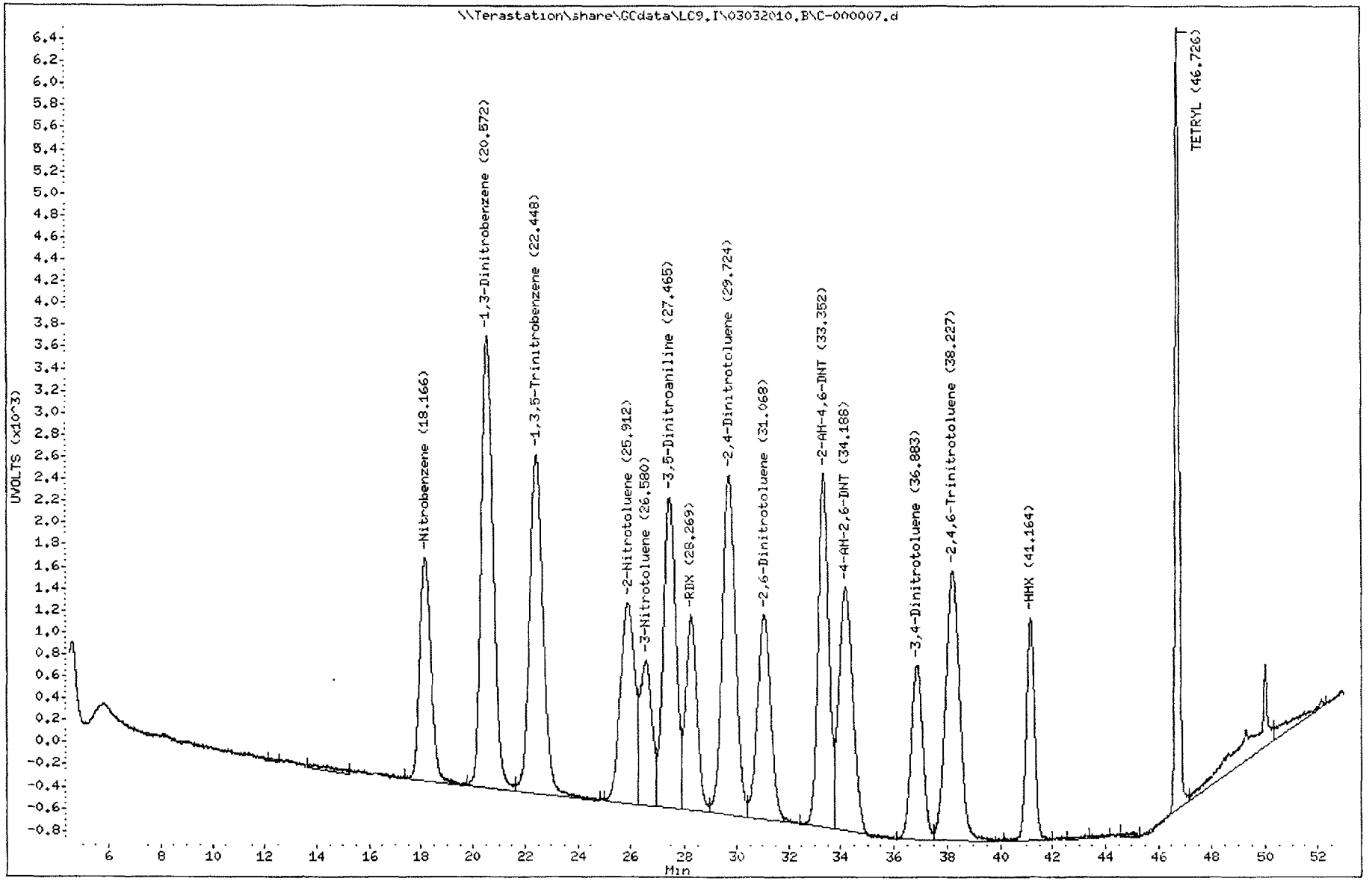
RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
12.282	2536	36	0.014	0.08			
13.734	14472	44	0.003	0.10			
18.166	314059	2032	0.006	4.89		13	Nitrobenzene
20.572	655705	4123	0.006	9.94		10	1,3-Dinitrobenzene
22.448	553641	3087	0.006	7.44		9	1,3,5-Trinitrobenze
25.912	354861	1829	0.005	4.41		20	2-Nitrotoluene
26.580	199074	1321	0.007	3.18		22	3-Nitrotoluene
27.465	453384	2833	0.006	6.83		11	3,5-Dinitroaniline
28.269	271619	1779	0.007	4.28		7	RDX
29.724	539071	3088	0.006	7.44		19	2,4-Dinitrotoluene
31.068	335129	1859	0.006	4.48		18	2,6-Dinitrotoluene
33.352	458390	3219	0.007	7.76		17	2-AM-4,6-DNT
34.188	400313	2205	0.006	5.31		16	4-AM-2,6-DNT
36.883	238076	1574	0.007	3.79	$	1	3,4-Dinitrotoluene
38.227	455092	2443	0.005	5.89		15	2,4,6-Trinitrotolue
41.164	223544	2015	0.009	4.85		4	HMX
43.245	3868	19	0.005	0.04			
43.627	3994	25	0.006	0.06			
45.016	4763	38	0.008	0.09			
46.726	358819	7092	0.020	17.20		12	TETRYL
49.991	142283	745	0.005	1.79			
52.159	38118	64	0.002	0.15			
	6020811	41470		100.000			

Total unknown % height = 2.310

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d
Date : 03-MAR-2010 22:56
Client ID:
Sample Info: 8330 10GCSV0049 ICAL L4:1

Instrument: LC9.i
Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d\C-000007.
Lab Smp Id: 8330 10GCSV0049 ICA
Inj Date : 03-MAR-2010 22:56
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0049 ICAL L4;1
Misc Info : ;4;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:33 shafern Quant Type: AREA%
Cal Date : 03-MAR-2010 22:56 Cal File: C-000007.d
Als bottle: 84 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
45.032	248224	2360	0.010	15.38	14 Nitroglycerin
49.292	63920	1605	0.025	10.46	
49.648	35147	363	0.010	2.36	
49.966	319255	11011	0.034	71.80	23 PETN
	666545	15339		100.000	

Total unknown % height = 12.82

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000007.d\C-000007.d

Date : 03-MAR-2010 22:56

Client ID:

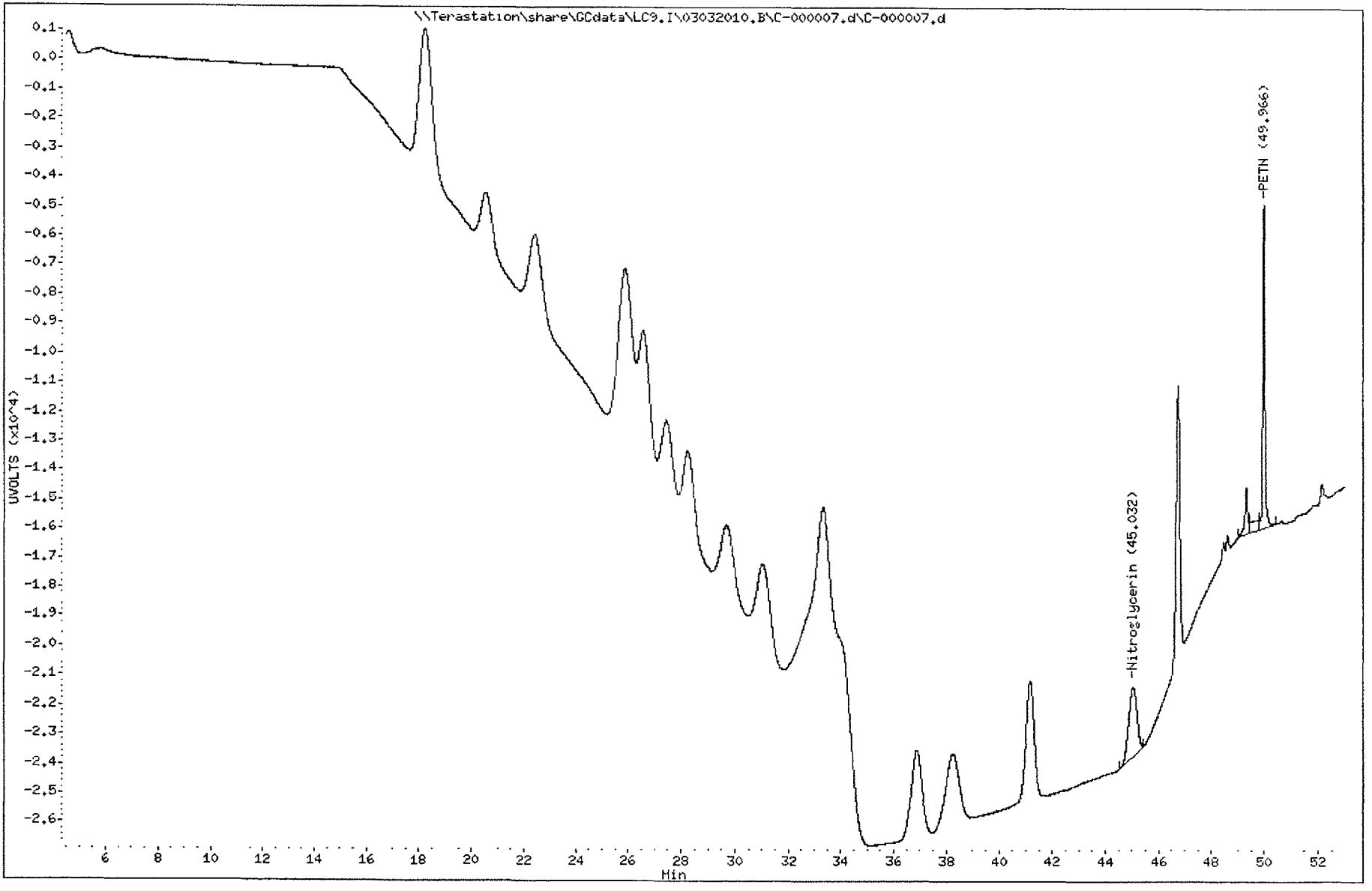
Instrument: LC9.1

Sample Info: 8330 10GCSV0049 ICAL L4;1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000008.D

Chromatography Summary

Injection Date: 3/4/2010 0:01 Operator: NS

DataFile: LC9 I\03032010 B\C-000008.D Vial Num: 85

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0072 ICAL L5**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 End Cal Date: 3/4/2010 0.01

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE SubList: CAL.sub SpikeList:

Samp. Info: 8330 10GCSV0072 ICAL L5;1

Misc. Info: ;5;;;;3;CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.96	3227	100		32.27			100		0
HMX	41.25	3838	100		38.38			100		0
RDX	28.31	3431	100		34.31			100		0
Picric ACID			200		0			200		0
1,3,5-Trinitrobenzene	22.46	5917	100		59.17			100		0
1,3-Dinitrobenzene	20.60	7938	100		79.38			100		0
TETRYL	46.76	13313	100		133.13			100		0
Nitrobenzene	18.20	3922	100		39.22			100		0
2,4,6-Trinitrotoluene	38.29	4577	100		45.77			100		0
4-AM-2.6-DNT	34.27	3964	100		39.64			100		0
2-AM-4,6-DNT	33.42	6105	100		61.05			100		0
2,6-Dinitrotoluene	31.09	3566	100		35.66			100		0
2,4-Dinitrotoluene	29.74	5969	100		59.69			100		0
2-Nitrotoluene	25.95	3491	200		17.455			200		0
4-Nitrotoluene			200		0			200		0
3-Nitrotoluene	26.62	2517	100		25.17			100		0
Nitroglycerin			100		0	45.10	4856	100		48.56
PETN			100		0	49.97	21845	100		218.45
3,5-Dinitroaniline	27.50	5448	100		54.48			100		0
EGDN			100		0			100		0

Notes:

M = Manually Integrated

D = Operator Disabled Result

O = Over Calibration Range

Signals Differ by More Than 40%

Signals Differ by More Than 50%

Printed: 3/4/2010 9.35 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d
Lab Smp Id: 8330 10GCSV0072 ICA
Inj Date : 04-MAR-2010 00:01
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0072 ICAL L5;1
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:34 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 00:01 Cal File: C-000008.d
Als bottle: 85 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT			COMPOUNDS
14.354	4225	32	0.008	0.04			
18.203	592041	3922	0.007	4.94		13	Nitrobenzene
20.601	1244368	7938	0.006	10.00		10	1,3-Dinitrobenzene
22.462	1045204	5917	0.006	7.45		9	1,3,5-Trinitrobenze
25.952	666057	3491	0.005	4.39		20	2-Nitrotoluene
26.621	381314	2517	0.007	3.17		22	3-Nitrotoluene
27.503	860833	5448	0.006	6.86		11	3,5-Dinitroaniline
28.306	514187	3431	0.007	4.32		7	RDX
29.737	1031163	5969	0.006	7.52		19	2,4-Dinitrotoluene
31.089	644666	3566	0.006	4.49		18	2,6-Dinitrotoluene
33.418	857326	6105	0.007	7.69		17	2-AM-4,6-DNT
34.272	738904	3964	0.005	4.99		16	4-AM-2,6-DNT
36.962	485434	3227	0.007	4.06	$	1	3,4-Dinitrotoluene
38.289	849042	4577	0.005	5.76		15	2,4,6-Trinitrotolue
41.251	420671	3838	0.009	4.83		4	HMX
45.184	6081	46	0.008	0.05			
46.760	684679	13313	0.019	16.88		12	TETRYL
49.490	105618	231	0.002	0.29			
49.659	9639	195	0.020	0.24			
49.990	61160	1356	0.022	1.70			
50.736	20768	110	0.005	0.13			
51.440	16172	121	0.007	0.15			
52.148	7949	43	0.005	0.05			
	11247502	79357		100.000			

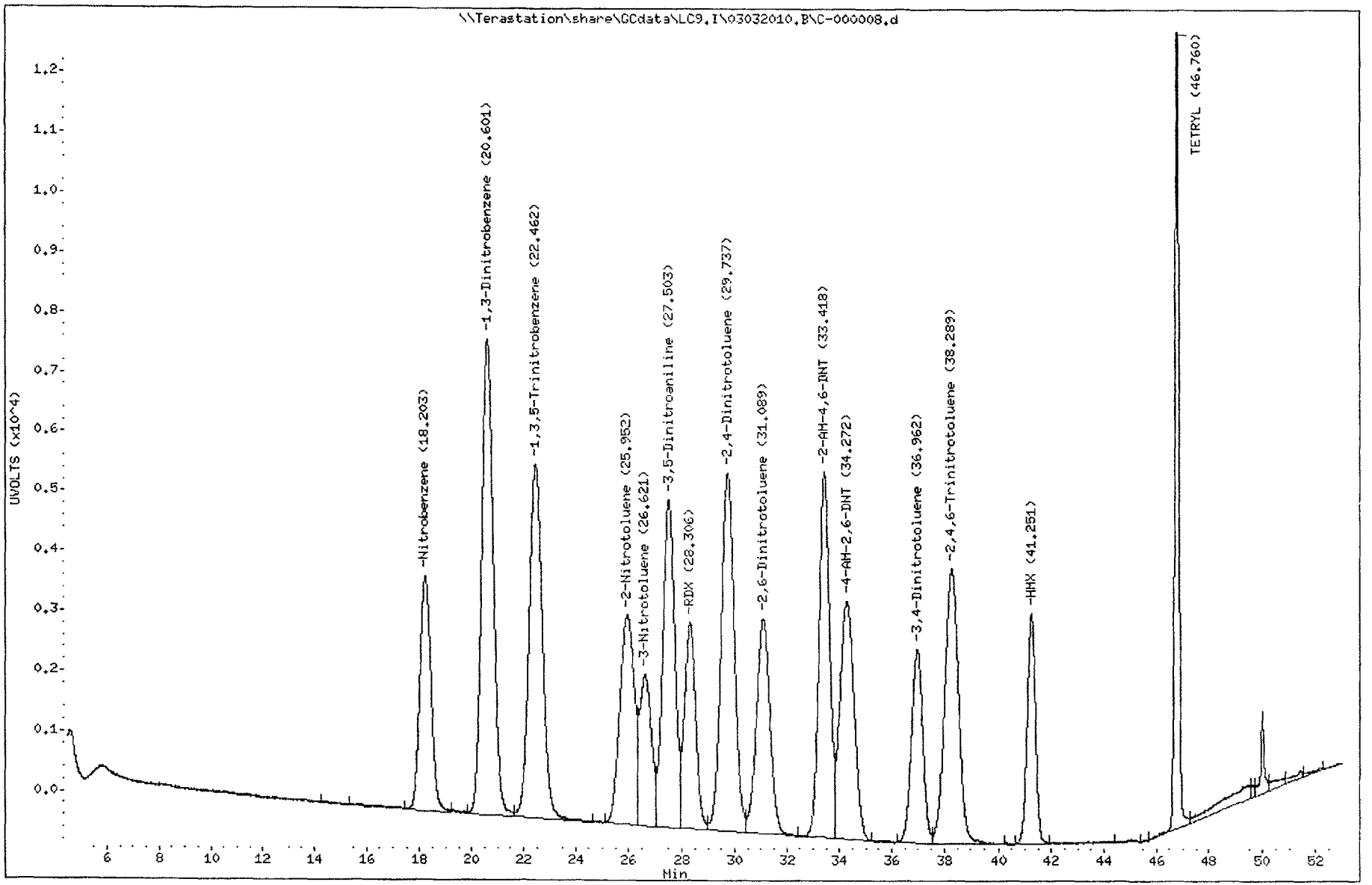
Total unknown % height = 2.650

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d
Date : 04-MAR-2010 00:01
Client ID:
Sample Info: 8330 10GCSV0072 ICAL L5:1

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d\C-000008.
Lab Smp Id: 8330 10GCSV0072 ICA
Inj Date : 04-MAR-2010 00:01
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0072 ICAL L5;1
Misc Info : ;5;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:35 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 00:01 Cal File: C-000008.d
Als bottle: 85 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
45.097	514912	4856	0.009	17.13	14 Nitroglycerin
49.299	53299	1084	0.020	3.82	
49.654	57962	558	0.010	1.96	
49.969	626808	21845	0.035	77.09	23 PETN
	1252980	28343		100.000	

Total unknown % height = 5.780

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000008.d\C-000008.d

Date : 04-MAR-2010 00:01

Client ID:

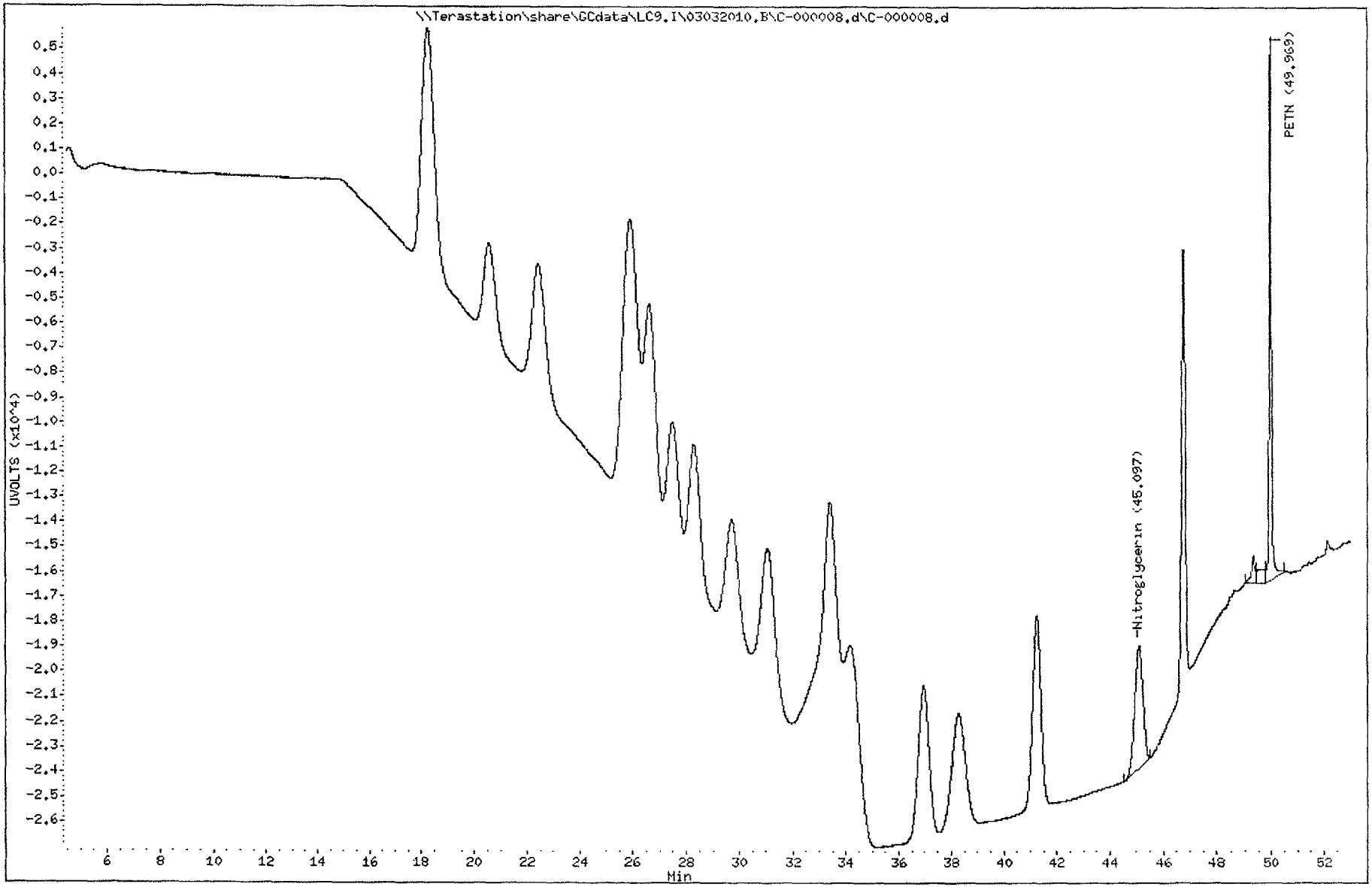
Instrument: LC9.i

Sample Info: 8330 10GCSV0072 ICAL L5;1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000009.D

Chromatography Summary

Injection Date: 3/4/2010 1:07 **Operator:** NS

DataFile: LC9.I\03032010.B\C-000009 D **Vial Num:** 86

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : 8330 09GCSV0482 ICAL L6

Method File: LC9.I\03032010 B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL sub **SpikeList:**

Samp. Info: 8330 09GCSV0482 ICAL L6,1

Misc. Info: ;6;;;;3;CAL.sub;,0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.92	6132	200		30.66			200		0
HMX	41.25	7628	200		38.14			200		0
RDX	28.32	6812	200		34.06			200		0
Picric ACID			500		0			500		0
1,3,5-Trinitrobenzene	22.47	11832	200		59.16			200		0
1,3-Dinitrobenzene	20.61	15883	200		79.415			200		0
TETRYL	46.77	29447	200		147.235			200		0
Nitrobenzene	18.22	7819	200		39.095			200		0
2,4,6-Trinitrotoluene	38.26	9437	200		47.185			200		0
4-AM-2,6-DNT	34.21	8014	200		40.07			200		0
2-AM-4,6-DNT	33.36	12268	200		61.34			200		0
2,6-Dinitrotoluene	31.11	7026	200		35.13			200		0
2,4-Dinitrotoluene	29.76	11906	200		59.53			200		0
2-Nitrotoluene	25.97	7021	400		17.5525			400		0
4-Nitrotoluene			400		0			400		0
3-Nitrotoluene	26.63	5037	200		25.185			200		0
Nitroglycerin			200		0	45.11	10041	200		50.205
PETN			200		0	49.99	43546	200		217.73
3,5-Dinitroaniline	27.51	10855	200		54.275			200		0
EGDN			200		0			200		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/4/2010 9:56 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d
Lab Smp Id: 8330 09GCSV0482 ICA
Inj Date : 04-MAR-2010 01:07
Operator : NS Inst ID: LC9.i
Smp Info : 8330 09GCSV0482 ICAL L6;1
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:35 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 01:07 Cal File: C-000009.d
Als bottle: 86 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
18.217	1187675	7819	0.007	4.86		13 Nitrobenzene
20.613	2495688	15883	0.006	9.87		10 1,3-Dinitrobenzene
22.469	2101453	11832	0.006	7.35		9 1,3,5-Trinitrobenze
25.966	1346976	7021	0.005	4.36		20 2-Nitrotoluene
26.631	757308	5037	0.007	3.13		22 3-Nitrotoluene
27.511	1726403	10855	0.006	6.74		11 3,5-Dinitroaniline
28.321	1026784	6812	0.007	4.23		7 RDX
29.756	2048363	11906	0.006	7.40		19 2,4-Dinitrotoluene
31.109	1273284	7026	0.006	4.36		18 2,6-Dinitrotoluene
33.359	1706542	12268	0.007	7.62		17 2-AM-4,6-DNT
34.209	1477478	8014	0.005	4.98		16 4-AM-2,6-DNT
36.924	935312	6132	0.007	3.81	$	1 3,4-Dinitrotoluene
38.260	1787870	9437	0.005	5.86		15 2,4,6-Trinitrotolue
41.246	849220	7628	0.009	4.74		4 HMX
43.374	3072	30	0.010	0.01		
44.362	3547	30	0.008	0.01		
45.079	11063	90	0.008	0.05		
46.771	1512340	29447	0.019	18.43		12 TETRYL
48.660	56403	212	0.004	0.13		
49.325	39276	396	0.010	0.24		
49.619	19129	207	0.011	0.12		
50.014	104122	2643	0.025	1.64		
51.487	29749	57	0.002	0.03		
52.166	6009	58	0.010	0.03		
	22505067	160840		100.000		

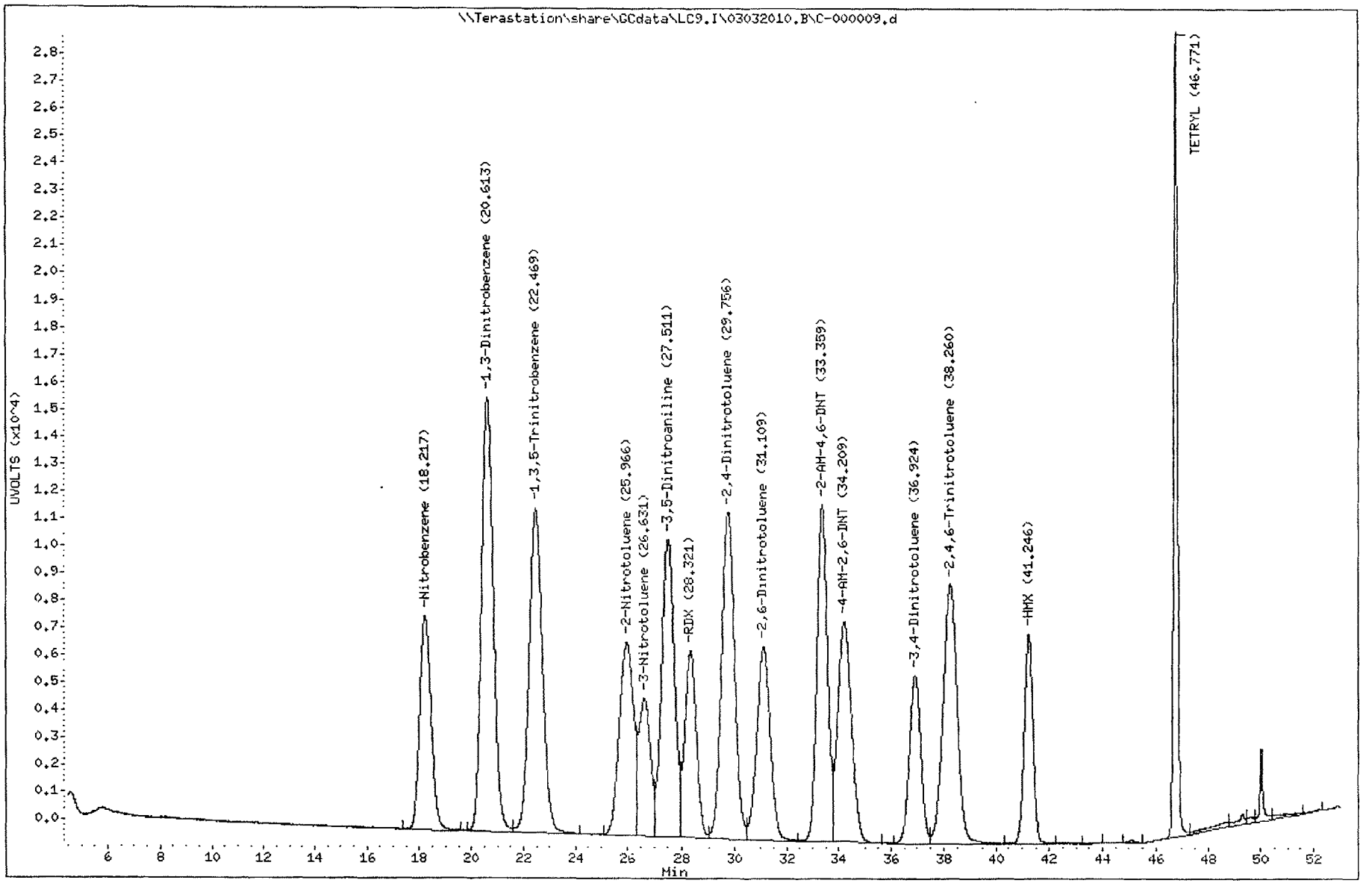
Total unknown % height = 2.260

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d
Date : 04-MAR-2010 01:07
Client ID:
Sample Info: 8330 09GCSV0482 ICAL L6;1

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000009.d\C-000009.
Lab Smp Id: 8330 09GCSV0482 ICA
Inj Date : 04-MAR-2010 01:07
Operator : NS Inst ID: LC9.i
Smp Info : 8330 09GCSV0482 ICAL L6;1
Misc Info : ;6;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:35 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 01:07 Cal File: C-000009.d
Als bottle: 86 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
45.109	1089586	10041	0.009	17.37	14 Nitroglycerin
49.323	124291	3526	0.028	6.10	
49.648	58042	671	0.012	1.16	
49.994	1213099	43546	0.036	75.37	23 PETN
	2485017	57784		100.000	

Total unknown % height = 7.260

Data File: \\Terastation\share\GCdata\LC9,I\03032010.B\C-000009.d\C-000009.d

Date : 04-MAR-2010 01:07

Client ID:

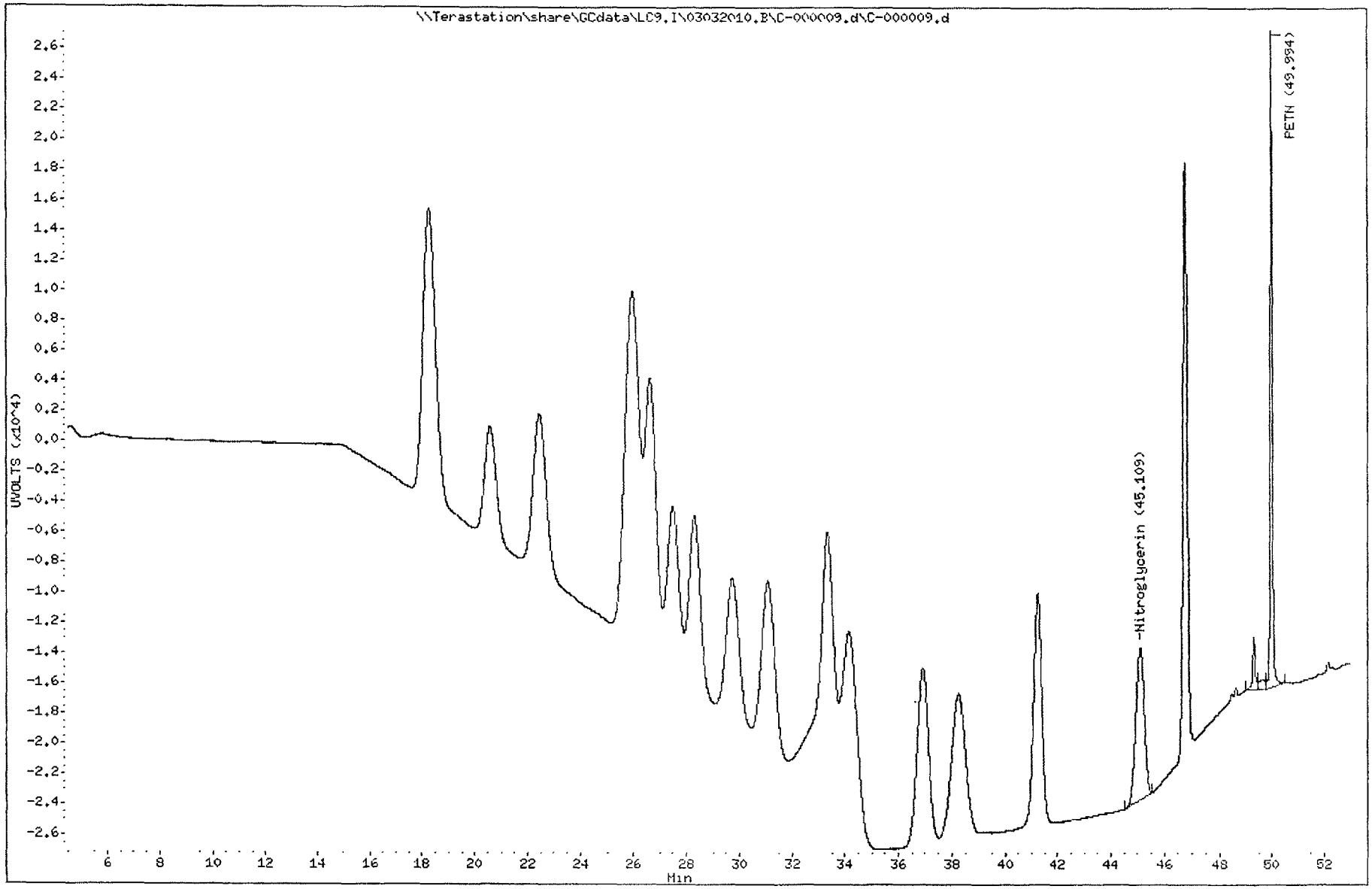
Instrument: LC9.i

Sample Info: 8330 09GCSV0482 ICAL L6;1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4.60



TestAmerica West Sacramento

C-000010.D

Chromatography Summary

Injection Date: 3/4/2010 2.12 **Operator:** NS

DataFile: LC9.I\03032010 B\C-000010.D **Vial Num:** 87

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0050 ICAL L7**

Method File: LC9 I\03032010 B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3.18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0050 ICAL L7;1

Misc. Info: ;7;,,;3,CAL.sub;;0;0;

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.83	9381	300		31.27			300		0
HMX	41.14	18894	500		37.788			500		0
RDX	28.24	15968	500		31.936			500		0
Picric ACID			1000		0			1000		0
1,3,5-Trinitrobenzene	22.42	29114	500		58.228			500		0
1,3-Dinitrobenzene	20.57	37565	500		75.13			500		0
TETRYL	46.72	68351	500		136.702			500		0
Nitrobenzene	18.17	17976	500		35.952			500		0
2,4,6-Trinitrotoluene	38.16	23267	500		46.534			500		0
4-AM-2,6-DNT	34.11	20320	500		40.64			500		0
2-AM-4,6-DNT	33.30	29610	500		59.22			500		0
2,6-Dinitrotoluene	31.02	17564	500		35.128			500		0
2,4-Dinitrotoluene	29.68	28765	500		57.53			500		0
2-Nitrotoluene	25.88	17147	1000		17.147			1000		0
4-Nitrotoluene			1000		0			1000		0
3-Nitrotoluene	26.53	/ 12130	500		24.26			500		0
Nitroglycerin			500		0	44.99	25412	500		50.824
PETN			500		0	49.98	/ 110509	500		221.018
3,5-Dinitroaniline	27.44	25882	500		51.764			500		0
EGDN			500		0			500		0

Notes:
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range

Signals Differ by More Than 40%
Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d
Lab Smp Id: 8330 10GCSV0050 ICA
Inj Date : 04-MAR-2010 02:12
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0050 ICAL L7;1
Misc Info : ;7;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:35 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 02:12 Cal File: C-000010.d
Als bottle: 87 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
18.173	2996834	17976	0.006	4.72		13 Nitrobenzene
20.571	6323653	37565	0.006	9.87		10 1,3-Dinitrobenzene
22.424	5317290	29114	0.005	7.65		9 1,3,5-Trinitrobenze
25.880	3436116	17147	0.005	4.50		20 2-Nitrotoluene
26.535	1905539	12130	0.006	3.18		22 3-Nitrotoluene
27.441	4405650	25882	0.006	6.80		11 3,5-Dinitroaniline
28.244	2587222	15968	0.006	4.19		7 RDX
29.677	5205888	28765	0.006	7.56		19 2,4-Dinitrotoluene
31.018	3229537	17564	0.005	4.61		18 2,6-Dinitrotoluene
33.299	4297703	29610	0.007	7.78		17 2-AM-4,6-DNT
34.108	3707027	20320	0.005	5.34		16 4-AM-2,6-DNT
36.826	1477856	9381	0.006	2.46	$	1 3,4-Dinitrotoluene
38.159	4446324	23267	0.005	6.11		15 2,4,6-Trinitrotolue
41.139	2143280	18894	0.009	4.96		4 HMX
43.342	11529	60	0.005	0.01		
44.995	28852	236	0.008	0.06		
46.723	3428488	68351	0.020	18.06		12 TETRYL
49.460	59621	244	0.004	0.06		
49.999	220491	6665	0.030	1.75		
51.461	28841	183	0.006	0.04		
52.149	38860	1107	0.028	0.29		
	55296601	380429		100.000		

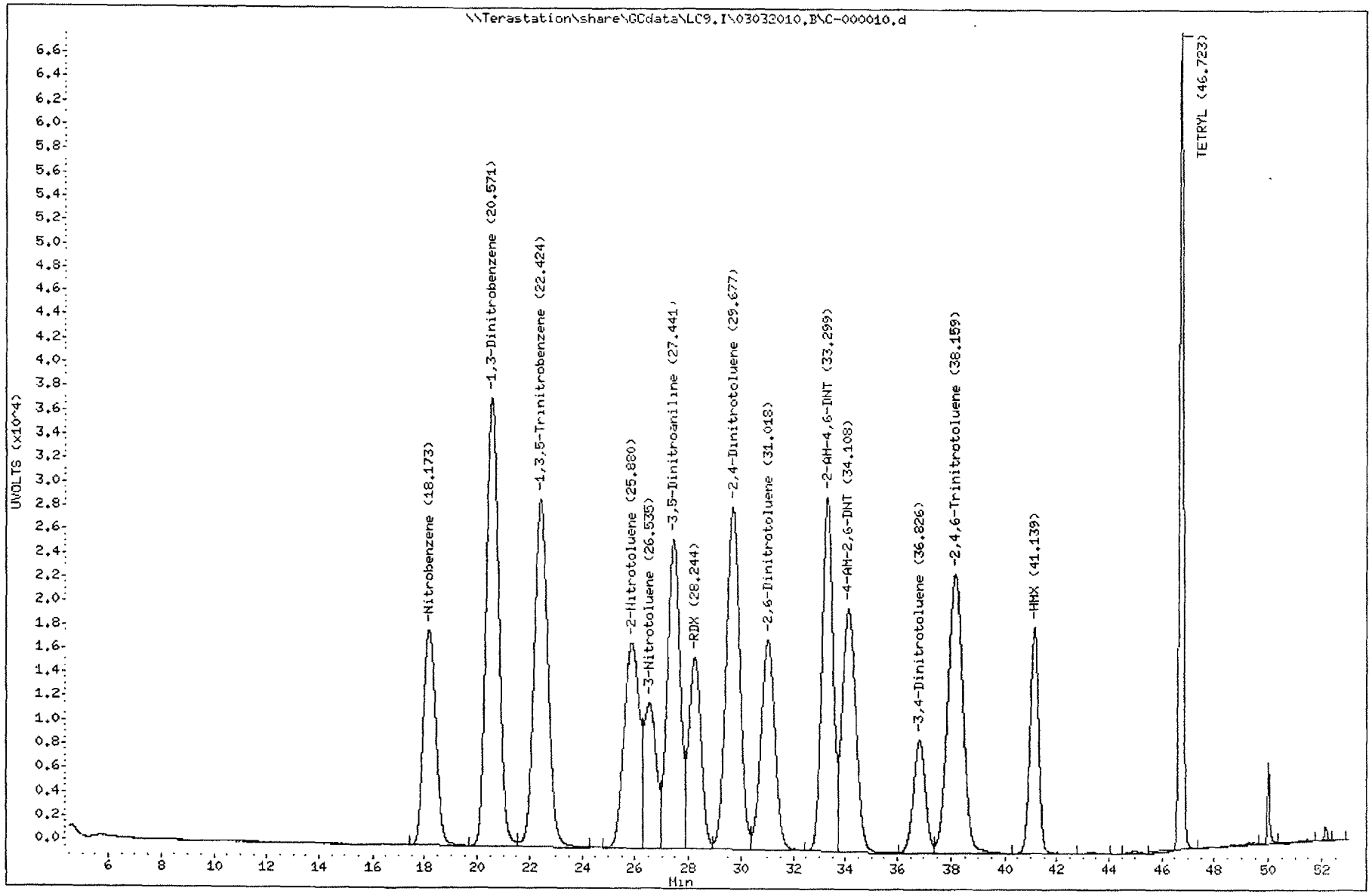
Total unknown % height = 2.210

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d
Date : 04-MAR-2010 02:12
Client ID:
Sample Info: 8330 10GCSV0050 ICAL L7;1

Column phase: Agilent ZorbaxCyano

Instrument: LC9.i

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d\C-000010.
Lab Smp Id: 8330 10GCSV0050 ICA
Inj Date : 04-MAR-2010 02:12
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0050 ICAL L7;1
Misc Info : ;7;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:36 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 02:12 Cal File: C-000010.d
Als bottle: 87 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.994	2869462	25412	0.009	18.39	14 Nitroglycerin
49.305	87969	1607	0.018	1.16	
49.628	46243	642	0.014	0.46	
49.979	2995521	110509	0.037	79.99	23 PETN
	5999194	138170		100.000	

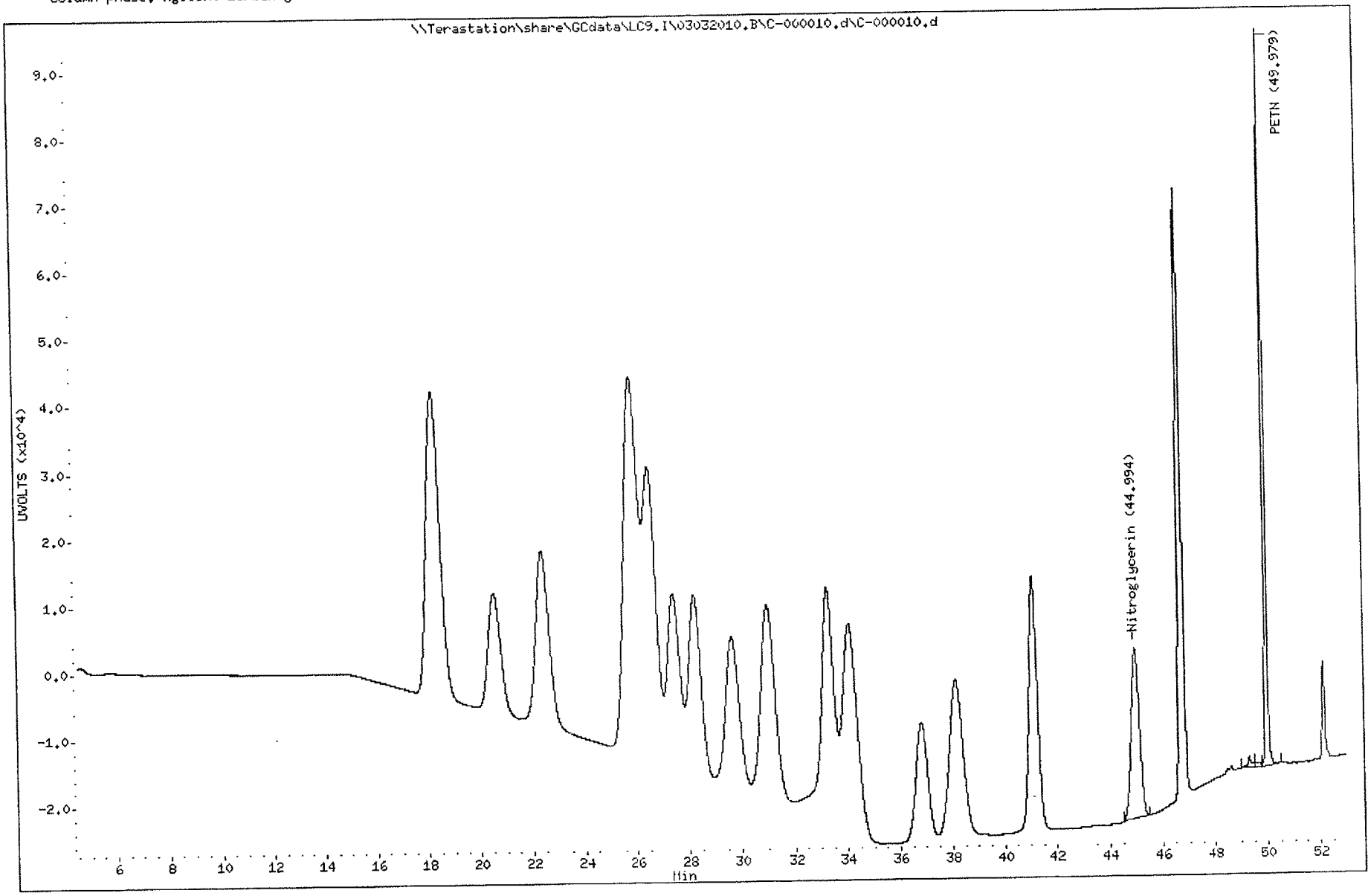
Total unknown % height = 1.620

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000010.d\C-000010.d
Date : 04-MAR-2010 02:12
Client ID:
Sample Info: 8330 10GCSV0050 ICAL L7;1

Column phase: Agilent ZorbaxCyano

Instrument: LC9.1

Operator: NS
Column diameter: 4.60



TestAmerica West Sacramento

C-000011.D

Chromatography Summary

Injection Date: 3/4/2010 3:18 **Operator:** NS

DataFile: LC9 I\03032010.B\C-000011.D **Vial Num:** 88

Instrument ID: LC9

Method 8330 Target Analyte Results

Sample : **8330 10GCSV0051 ICAL L8**

Method File: LC9.I\03032010.B\8330METCNAB.M

Start Cal Date: 3/3/2010 19:39 **End Cal Date:** 3/4/2010 3:18

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** CAL.sub **SpikeList:**

Samp. Info: 8330 10GCSV0051 ICAL L8;1

Misc. Info: ;8;;;;3;CAL sub;;0;0.

	Zorbax Cyano(250nm)					Zorbax Cyano(250nm-205nm)				
Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
3,4-Dinitrotoluene	36.66	14295	500		28.59			500		0
HMX	41.01	34701	1000		34.701			1000		0
RDX	28.08	27778	1000		27.778			1000		0
Picric ACID			2000		0			2000		0
1,3,5-Trinitrobenzene	22.36	53702	1000		53.702			1000		0
1,3-Dinitrobenzene	20.45	65650	1000		65.65			1000		0
TETRYL	46.69	129888	1000		129.888			1000		0
Nitrobenzene	18.04	30550	1000		30.55			1000		0
2,4,6-Trinitrotoluene	38.06	43928	1000		43.928			1000		0
4-AM-2,6-DNT	33.94	39783	1000		39.783			1000		0
2-AM-4,6-DNT	33.18	53740	1000		53.74			1000		0
2,6-Dinitrotoluene	30.86	31309	1000		31.309			1000		0
2,4-Dinitrotoluene	29.54	52135	1000		52.135			1000		0
2-Nitrotoluene	25.74	31378	2000	O	15.689			2000		0
4-Nitrotoluene			2000		0			2000		0
3-Nitrotoluene	26.29	22634	1000		22.634			1000		0
Nitroglycerin			1000		0	44.92	48250	1000	O	48.25
PETN			1000		0	49.96	214337	1000		214.337
3,5-Dinitroaniline	27.31	45356	1000		45.356			1000		0
EGDN			1000		0			1000		0

Notes: M = Manually Integrated — Signals Differ by More Than 40%

D = Operator Disabled Result — Signals Differ by More Than 50%

O = Over Calibration Range

Printed: 3/4/2010 9:40 AM

TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d
Lab Smp Id: 8330 10GCSV0051 ICA
Inj Date : 04-MAR-2010 03:18
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0051 ICAL L8;1
Misc Info : ;8;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.m
Meth Date : 04-Mar-2010 09:40 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 88 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT		COMPOUNDS
18.043	5953214	30550	0.005	4.41		13 Nitrobenzene
20.449	12576694	65650	0.005	9.48		10 1,3-Dinitrobenzene
22.355	10532153	53702	0.005	7.76		9 1,3,5-Trinitrobenze
25.738	7174411	31378	0.004	4.53		20 2-Nitrotoluene
26.292	3331742	22634	0.007	3.27		22 3-Nitrotoluene
27.311	8920309	45356	0.005	6.55		11 3,5-Dinitroaniline
28.083	5005360	27778	0.006	4.01		7 RDX
29.536	10327353	52135	0.005	7.53		19 2,4-Dinitrotoluene
30.858	6378951	31309	0.005	4.52		18 2,6-Dinitrotoluene
33.181	8513135	53740	0.006	7.76		17 2-AM-4,6-DNT
33.937	7288420	39783	0.005	5.75		16 4-AM-2,6-DNT
36.663	2480080	14295	0.006	2.06	$	1 3,4-Dinitrotoluene
38.055	8809485	43928	0.005	6.34		15 2,4,6-Trinitrotolue
41.009	4247937	34701	0.008	5.01		4 HMX
43.298	21292	112	0.005	0.01		
44.922	53794	407	0.008	0.05		
46.689	6747327	129888	0.019	18.89		12 TETRYL
49.428	60487	441	0.007	0.06		
49.975	418476	13446	0.032	1.94		
50.652	17568	175	0.010	0.02		
51.432	19618	335	0.017	0.04		
52.133	4191	74	0.018	0.01		
	108881998	691817		100.000		

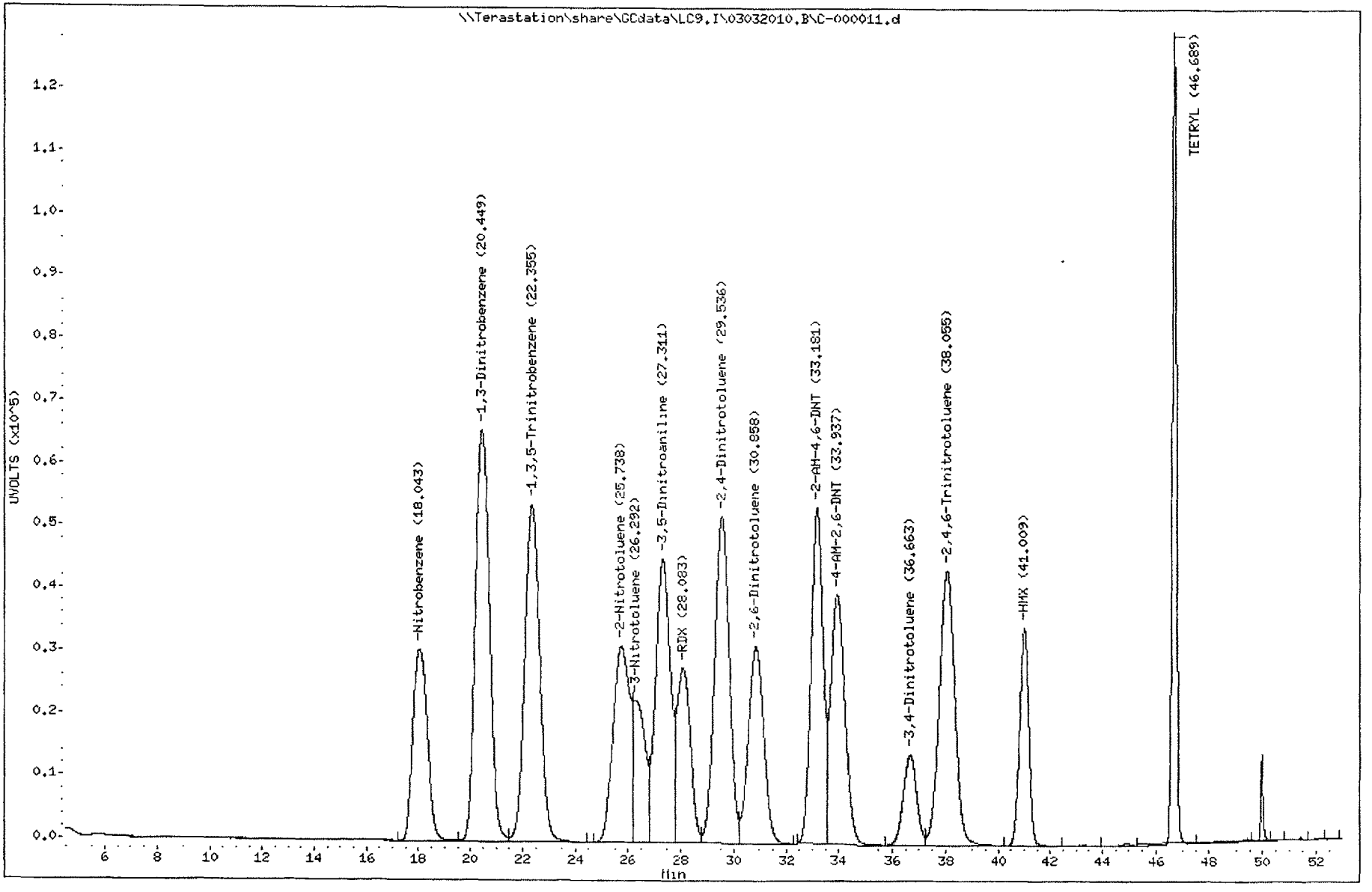
Total unknown % height = 2.130

Data File: \\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d
Date : 04-MAR-2010 03:18
Client ID:
Sample Info: 8330 10GCSV0051 ICAL L8:1

Instrument: LC9.i

Operator: NS
Column diameter: 4.60

Column phase: Agilent ZorbaxCyano



TestAmerica West Sacramento

Method 8330

Data file : \\Terastation\share\GCdata\LC9.I\03032010.B\C-000011.d\C-000011.
Lab Smp Id: 8330 10GCSV0051 ICA
Inj Date : 04-MAR-2010 03:18
Operator : NS Inst ID: LC9.i
Smp Info : 8330 10GCSV0051 ICAL L8;1
Misc Info : ;8;;;;3;CAL.sub;;0;0;
Comment : SOP WS-LC-0009
Method : \\Terastation\share\GCdata\LC9.I\03032010.B\8330METCNAB.M\8330CN
Meth Date : 04-Mar-2010 09:40 shafern Quant Type: AREA%
Cal Date : 04-MAR-2010 03:18 Cal File: C-000011.d
Als bottle: 88 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CAL.sub
Target Version: 4.14
Processing Host: SACP307FK

RT	AREA	HEIGHT	HT/AREA	% HEIGHT	COMPOUNDS
44.922	5887311	48250	0.008	18.22	14 Nitroglycerin
49.286	89733	1481	0.017	0.55	
49.646	37731	611	0.016	0.23	
49.957	5730589	214337	0.037	81.00	23 PETN
	11745364	264679		100.000	

Total unknown % height = 0.7800

Data File: \\Terastation\share\GCdata\LC9,I\03032010,B\C-000011,d\C-000011,d

Date : 04-MAR-2010 03:18

Client ID:

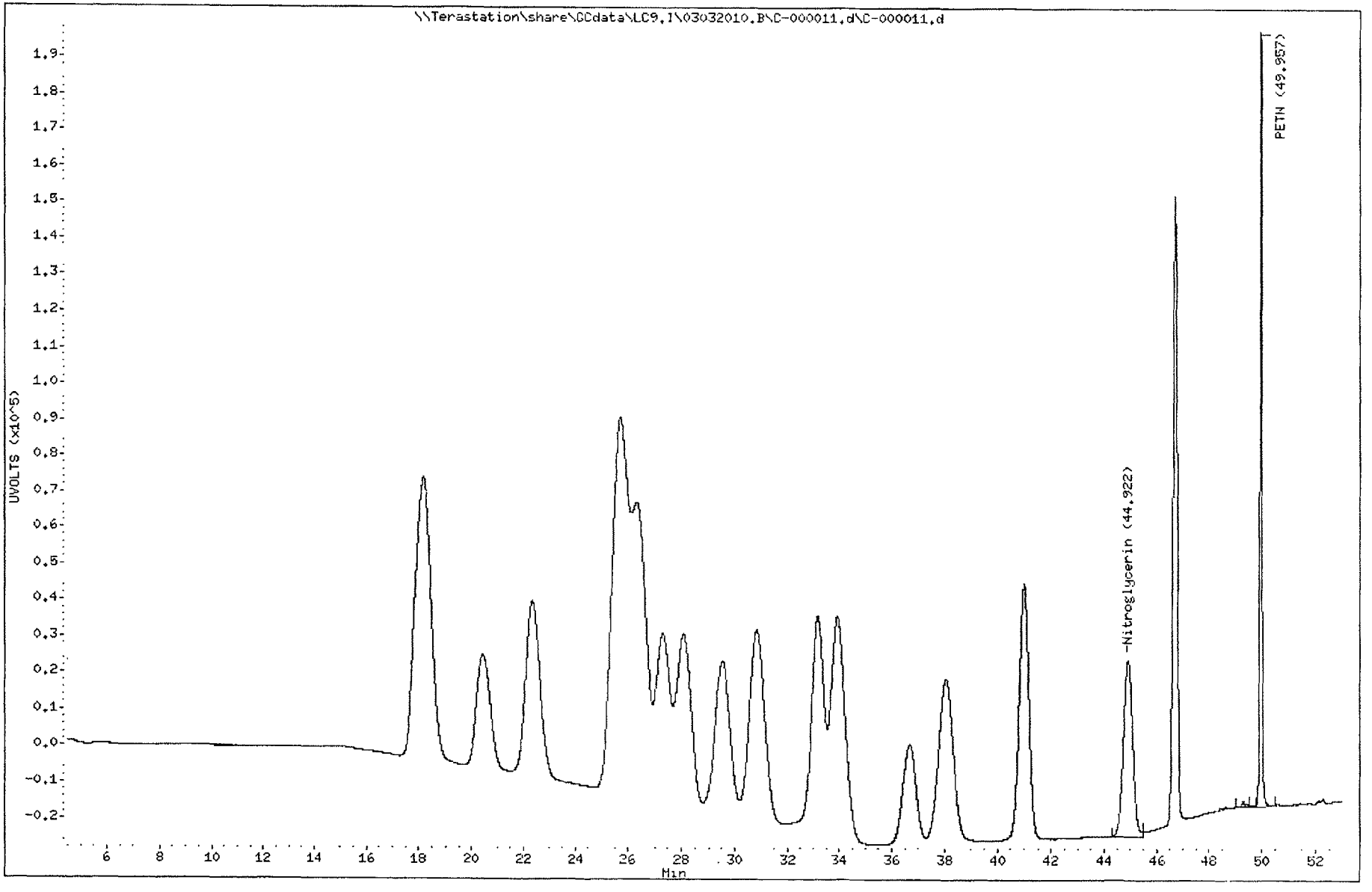
Instrument: LC9,1

Sample Info: 8330 10GCSV0051 ICAL L8;1

Operator: NS

Column phase: Agilent ZorbaxCyano

Column diameter: 4,60



Sample Extraction/Preparation Log Copies

North Canton

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/10/10
Time: 13:51:58

LEV 1	LEV 2		LEV 1	LEV 2	
Y		Blank	Y		Weights/Volumes
Y		Check	Y		Spike & Surrogate Worksheet
Y		MS/MSD	Y		Vial contains correct volume
			Y		Labels, greenbars, worksheets
					computer batch: correct & all match
					Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 000915 Horacio J. Arauz

Concentrationist: 002448 Tuan Q. Phan

Reviewer/Date: ARAUZH / 3/06/10

QC BATCH: 0065052

PREP DATE: 3/06/10 10:00
COMP DATE: 3/10/10 12:00

Nitroaromatics & Nitramines: Explosives (8330B)
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/18/10	A0B250463-001 0065033 **LV3KM-1-A4**	D	13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-001 0065033 **LV3KM-1-A5X**	D	13	88	SOLID	**10.09g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:	DUPLICATE														
3/10/10	3/18/10	A0B250463-001 0065033 **LV3KM-1-A6X**	D	13	88	SOLID	**10.08g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:	TRIPLICATE														
3/10/10	3/18/10	A0B250463-002 0065033 **LV3KN-1-AF**	D	13	88	SOLID	**9.980g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-003 0065033 **LV3KP-1-AF**	D	13	88	SOLID	**10.06g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-004 0065033 **LV3KQ-1-A8**	D	13	88	SOLID	**10.05g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-005 0065033 **LV3KR-1-AK**	D	13	88	SOLID	**10.03g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															

* NOT NEEDED. NOT REPORTED. m 3/18/10

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RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/10/10
Time: 13:51:58

QC BATCH: 0065052

PREP DATE: 3/06/10 10:00
COMP DATE: 3/10/10 12:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/18/10	A0B250463-006 **LV3KT-1-AF**	0065033 D	13	88	SOLID	**10.10g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-007 **LV3KW-1-AF**	0065033 D	13	88	SOLID	**10.06g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-008 **LV3KX-1-AF**	0065033 D	13	88	SOLID	**10.02g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-009 **LV3K1-1-AP**	0065033 D	13	88	SOLID	**10.01g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-009 **LV3K1-1-AQS**	0065033 D	13	88	SOLID	**10.06g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-009 **LV3K1-1-ARD**	0065033 D	13	88	SOLID	**10.01g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-010 **LV3K3-1-AF**	0065033 D	13	88	SOLID	**10.03g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-011 **LV3K7-1-AF**	0065033 D	13	88	SOLID	**10.01g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-012 **LV3K8-1-AF**	0065033 D	13	88	SOLID	**10.06g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-013 **LV3K9-1-A4**	0065033 D	13	88	SOLID	**10.05g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/10/10
Time: 13:51:58

QC BATCH: 0065052

PREP DATE: 3/06/10 10:00
COMP DATE: 3/10/10 12:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/18/10	A0B250463-014 **LV3LA-1-AF**	0065033 D	13	88	SOLID	**10.06g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-015 **LV3LC-1-AN**	0065033 D	13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-016 **LV3LE-1-AW**	0065033 D	13	88	SOLID	**9.990g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-018 **LV3LJ-1-A7**	0065033 D	13	88	SOLID	**9.980g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-020 **LV3LM-1-DM**	0065033 D	13	88	SOLID	**10.03g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-020 **LV3LM-1-DNS**	0065033 D	13	88	SOLID	**10.05g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															
3/10/10	3/18/10	A0B250463-020 **LV3LM-1-DPD**	0065033 D	13	88	SOLID	**10.05g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															
3/10/10	0/00/00	G0C060000-052 **LWDNG-1-AAB**		13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	100UL-09GCSV0476
COMMENTS:															
3/10/10	0/00/00	G0C060000-052 **LWDNG-1-ACC**		13	88	SOLID	**10.00g** 80.00mL	NA	NA	NA	HOAC/ACN	20.0		.0	SEE BENCH SHEET 100UL-09GCSV0476
COMMENTS:															

.1% HOAC/ACN 3844-007E, 1.3G/L CACL2 3844-009E
.45 FILTER MILLIPORE LOT R9HN15546
LCS,MS/MSD 100UL-09GCSV0472,200UL-09GCSV0481

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 26

NEP

North Canton

TestAmerica West Sacramento
ESC-Extraction Master Sheet

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Holding Time Due: 3-16-10 | Project Due: 3-18-10
BATCH #: 0065052 | Initiated By: MD | Date: 3-6-10
Test #: 8330B-S | Extn Comp'd By: TP | Date: 3/10/10

QC Code	Lot ID	Sample #	Sample Size / Initial Mass	Final Volume / Final Mass	Chlorine checked
	MB		10.00	5C	TP 3/10/10
	LCS		10.00	5C	
	ACB250463	C1	10.00	5C	
		1 DUP	~~10.09~~	~~5C~~	*
		1 TRIP	~~10.05~~	~~5C~~	*
		C2	9.98	5C	
		C3	10.06	5C	
		C4	10.05	5C	
		C5	10.03	5C	
		C6	10.10	5C	
		C7	10.06	5C	
		C8	10.02	5C	
		C9	10.01	5C	
S		9 MS	10.06	5C	
D		9 MSD	10.01	5C	
		10	10.03	5C	
		11	10.01	5C	
		12	10.06	5C	
		13	10.05	5C	
		14	10.06	5C	
		15	10.00	5C	
		16	9.99	5C	
		18	9.98	5C	
		20	10.03	5C	
S		20 MS	10.05	5C	
	QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD, FB = Filter Blank				
	C:\DOCUMENTS AND SETTINGS\BAYNESJ\LOCAL SETTINGS\TEMPORARY INTERNET FILES\OLK227\QA-413 ESC EXTRACTION (2) DOCQA-413				
D	ACB250463	20 MSD	10.05	5C	

SOP No.: WS-LC-0009

EXTRACTION COMMENTS:
Multi-incremental Sampling/Date: 3-6-10

Dried/Date 3-2-10 | Ground//Date 3-6-10
Sonicated - Start: 3-6-10 / 12:35 | End: 6:35 | Date: 3/7/10

Cleanup by/Date TP 3/10/10 | Dilution by/Date 3/10/10 TP

Final Vialling /Date TP 3/10/10

Millipore Water Dispensed / Date N/A

SPE Cartridge: Waters Lot # N/A

* NOT NEEDED. NOT REPORTED. MD 3/18/10

QC Codes	Standard Information: Volume	STD ID	Exp. Date	STD Name/Conc	ppm/ppb
All	100 µl	090CSVC476	6/2/10	3,4-DNT 50ug/ml	0.5
C, L, D	100 µl	090CSVC472	6/2/10	8330+DNB 50ug/ml	0.5
C, L, D	200 µl	090CSVC481	6/2/10	NE/PETN 50ug/ml	1.0

Spiked By / Date: MD 3/6/10 | Witnessed By / Date: TP 3/6/10

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North Canton

TestAmerica West Sacramento

Incremental Sub-Sampling

Sample ID	Analyst Initials	Date/Time Sample Drying Started	Date/Time Sample Drying Ended	Particle size needed (circle one)	Project Specific Data (Method and Required Sample Mass in Header) Record Final Mass of Each Requested Test: 8330 B, 10 g
AOB25C463-C1	TF	3-2-10 10:35	3-6-10 11:00	Course Fine	137.24
02	″	″	″	Course Fine	134.39
03	″	″	″	Course Fine	134.98
04	″	″	″	Course Fine	146.45
05	″	″	″	Course Fine	121.57
06	″	″	″	Course Fine	73.45
07	″	″	″	Course Fine	146.95
08	″	″	″	Course Fine	139.90
09	″	″	″	Course Fine	284.23
10	″	″	″	Course Fine	131.26
11	″	″	″	Course Fine	120.28
12	″	″	″	Course Fine	160.51
AOB250463-13				Course Fine	237.53
14				Course Fine	258.98
15				Course Fine	233.55
16				Course Fine	279.16
18				Course Fine	251.11
20				Course Fine	339.85
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	
				Course Fine	

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Q:\FORMS\QA-562

particle size:
Course=10 mesh (2mm)
Fine = 30 mesh (600um)

QA-562
MAF 8/7/07

THE LEADER IN ENVIRONMENTAL TESTING

Preparation Data Review Checklist

Prep Batch/Test: 0065052 Test: 5330B-S

Prep Date: 3-6-10 Holding Times: 3-10-10 NCM: Y / (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match	✓	NA
4 Worksheets have been checked for required spiking compounds	✓	✓
5 Spiking volumes are correctly documented	✓	✓
6 Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7 Expiration dates have been checked	✓	✓
8 Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	✓
B. Weights and Volumes		
1 Recorded weights are in anticipated range	NA	✓
2 Balance upload or raw data for weights is included	NA	✓
3 Weights and volumes have been transcribed correctly to LIMS	NA	✓
4 Weights are not targeted to meet exact weights	NA	✓
5 Each weight or volume measurement is a unique record (no dittos or line downs)	NA	✓
C. Standards and Reagents		
1 Lot numbers for all reagents, including clean up stages, are recorded	NA	✓
2 Are dates and analysts for cleanups recorded?	NA	✓
3 Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	✓
D. Documentation		✓
1 Are all nonconformances documented appropriately?	NA	✓
2 QuantIMs entry correct, including dates and times	NA	✓
3 Are all fields completed?	NA	✓

Spike witness TP Date 3/6/10

2nd Level Reviewer [signature] Date 3/10/10

Comments

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

GC/HPLC Data Review Checklist

Lot ID: A0B250463 **Test:** 8330B **PM:** MJL

Prep Batch(es) 0060502 **Due Date:** 3/18/10 **NCM:** (Y) N

A. Calibration/Instrument Run QC	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV Criteria met.	✓	✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria	✓	✓	
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.			✓
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
B. QA/QC			
1. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
2. LCS/LCSD and MB data is included.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	✓	✓	
4. MS/MSD data complete.	✓	✓	
5. Holding Times were met. 3/10/2010	✓	✓	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	✓	✓	
2. Logbooks/prep sheets properly filled out.	✓	✓	
3. Manual Integrations reviewed and appropriate.			✓
4. All raw data for samples is included (applies to unused data as well)	✓	✓	
5. All analytes correctly reported.	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: [signature] Date: 3/18/10

2nd Level Reviewer: [signature] Date: 3/18/2010

Comments:
9MS/SD, 2 0 MS low for 4-Amino-2,6-DNT. See NCM.

SOLID, 8330M, Nitroguanidine

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

initial/continuing calibration standards

interference/performance check standards

initial/continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

GC LC INSTRUMENT LOG

Inst ID LC12 Batch ID 03152010
Method : Method 8330 Nitroguanidine Test : SOP WS-LC-0010
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
15-MAR-2010	14 42	DG	Primer 1000	A-000001	0 g	0 mL	1	
15-MAR-2010	15 00	DG	Primer 1000	A-000002	0 g	0 mL	1	
15-MAR-2010	15 17	DG	Primer 1000	A-000003	0 g	0 mL	1	
15-MAR-2010	15 35	DG	Primer 1000	A-000004	0 g	0 mL	1	
15-MAR-2010	15 53	DG	Water blank	A-000005	0 g	0 mL	1	
15-MAR-2010	16 11	DG	CCV4 09GCSV0430 NQ 200ng/mL	A-000006	0 g	0 mL	1	
15-MAR-2010	16 29	DG	G0C040000-MB, 0063249, 10mL/10	A-000007	10 mL	10 mL	1	
15-MAR-2010	16 46	DG	G0C040000-LCS, 0063249, 10mL/1	A-000008	10 mL	10 mL	1	
15-MAR-2010	17 04	DG	LV42G1A7 A0B260454-7 0063249 1	A-000009	10 mL	10 mL	1	
15-MAR-2010	17 22	DG	LV4241A7 A0B260454-12 0063249	A-000010	10 mL	10 mL	1	
15-MAR-2010	17 40	DG	LV4281A1 A0B260454-13 0063249	A-000011.	10 mL	10 mL	1	
15-MAR-2010	17:58	DG	LV4281A2S A0B260454-13MS 00632	A-000012.	10 mL	10 mL	1	
15-MAR-2010	18 15	DG	LV4281A3D A0B260454-13SD 00632	A-000013	10 mL	10 mL	1	
15-MAR-2010	18 33	DG	LV43C1AA A0B260454-14 0063249	A-000014	10 mL	10 mL	1	
15-MAR-2010	18 51	DG	LV43H1A7 A0B260454-17 0063249	A-000015	10 mL	10 mL	1	
15-MAR-2010	19 09	DG	CCV3 09GCSV0429 NQ 100ng/mL	A-000016	0 g	0 mL	1	
15-MAR-2010	19 27	DG	LV7MC1A7 A0C020458-13 0063249	A-000017	10 mL	10 mL	1	
15-MAR-2010	19 44	DG	LV7ML1AJ A0C020458-14 0063249	A-000018	10 mL	10 mL	1	
15-MAR-2010	20 02	DG	LV7MM1AV A0C020458-15 0063249	A-000019	10 mL	10 mL	1	
15-MAR-2010	20 20	DG	LLV7MN1A7 A0C020458 16 0063249	A-000020	10 mL	10 mL	1	
15-MAR-2010	20 38	DG	LV7MR1A7 A0C020458-18 0063249	A-000021	10 mL	10 mL		
15-MAR-2010	20 56	DG	LW[illegible] MB 0064232	A-000022	2 g	10 mL	1	
15-MAR-2010	21 13	DG	LW[illegible] LCS 006423	A-000023	2 g	10 mL	1	
15-MAR-2010	21 31	DG	[illegible]	A-000024	2 g	10 mL	1	
15-MAR-2010	21 49	DG	[illegible]	A-000025	2.04 g	10 mL		
15-MAR-2010	22 07	DG	[illegible]	[illegible]	2.01 g	10 mL	1	
15-MAR-2010	22 25	DG	CCV3 09GCSV0429 NQ 100ng/mL	A-000027	0 g	0 mL	1	
15-MAR-2010	22 42	DG	LV8KR1AL A0B250463-5 0064232	A-000028	2.03 g	10 mL	1	
15-MAR-2010	23 01	DG	LV8KJ1A3 A0B250463-18 0064232	A-000029	2 g	10 mL	1	
15-MAR-2010	23 19	DG	LV41M1A9 A0B260454-1 0064232	A-000030	2.01 g	10 mL	1	
15-MAR-2010	23 37	DG	LV41R1AL A0B260454-2 0064232	A-000031	2 g	10 mL	1	
15-MAR-2010	23 55	DG	LV42P1A9 A0B260454-8 0064232	A-000032	2.02 g	10 mL	1	
16-MAR-2010	00 13	DG	LV42W1A9 A0B260454-10 0064232	A-000033	1.99 g	10 mL	1	
16-MAR-2010	00 31	DG	LV43E1A9 A0B260454-16 0064232	A-000034	2.02 g	10 mL	1	
16-MAR-2010	00 48	DG	LV7L01A9 A0C020458-11 0064232	A-000035	2.01 g	10 mL	1	
16-MAR-2010	01 06	DG	LV7L11A9 A0C020458-12 0064232	A-000036	1.99 g	10 mL	1	
16-MAR-2010	01 24	DG	LV8911AD A0C030537-1 0064232	A-000037	2.01 g	10 mL	1	
16-MAR-2010	01 42	DG	CCV3 09GCSV0429 NQ 100ng/mL	A-000038	0 g	0 mL	1	
16-MAR-2010	02 00	DG	LW8N31AAB G0C080000-MB 0067351	A-000039.	2 g	10 mL	1	
16-MAR-2010	02 18	DG	LW8N31ACC G0C080000-LCS 006735	A-000040	2 g	10 mL	1	
16-MAR-2010	02 36	DG	LWAE61AD A0C040510-2 0067351	A-000041	1.99 g	10 mL	1	
16-MAR-2010	02 53	DG	LWAE61AFS A0C040510-2MS 006735	A-000042	2.02 g	10 mL	1	
16-MAR-2010	03:11	DG	LWAE61AGD A0C040510-2SD 006735	A-000043	1.98 g	10 mL	1	
16-MAR-2010	03 29	DG	LWFWA1AAB G0C090000-MB 0068274	A-000044	2 g	10 mL	1	
16-MAR-2010	03.47	DG	LWFWA1ACC G0C090000-LCS 006827	A-000045.	2 g	10 mL	1	
16-MAR-2010	04:05	DG	LWCWJ1A9 A0C050520-2 0068274	A-000046.	2 g	10 mL	1	
16-MAR-2010	04.23	DG	LWCWJ1CJS A0C050520-2MS 006827	A-000047.	2.04 g	10 mL	1	Wrong location
16-MAR-2010	04 41	DG	LWCWJ1CKD A0C050520-2SD 006827	A-000048.	2 g	10 mL	1	Wrong location
16-MAR-2010	04 59	DG	CCV3 09GCSV0429 NQ 100ng/mL	A-000049.	0 g	0 mL	1	
16-MAR-2010	05 17	DG	Water blank	A-000050	0 g	0 mL	1	

~~Sequence continued on next page~~ DEL 3-16-10

END of run.

TestAmerica West Sacramento

A-000016.D

Chromatography Summary

Injection Date: 3/15/2010 19:09 **Operator:** DG

DataFile: LC12 B\03152010 B\A-000016.D **Vial Num:** 13

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CCV3 09GCSV0429 NQ 100ng/mL**

Method File: LC12 B\03152010 B\8330NQAB.M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ sub **SpikeList:**

Samp Info: CCV3 09GCSV0429 NQ 100ng/mL,2

Misc. Info. ,3,,,,3,NQ sub,,0,1

Signal 1 UV ~~250-265~~ 263

Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.40	38435	98.3800<	100	-2%	Acceptable					~~100~~	~~-100%~~	~~Fails~~ NA		(±15)	45

CCV in control

DEL 3-15-10

Notes

M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

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TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03152010.B\A-000016.d
Lab Smp Id: CCV3 09GCSV0429 NQ
Inj Date : 15-MAR-2010 19:09
Operator : DG Inst ID: LC12.i
Smp Info : CCV3 09GCSV0429 NQ 100ng/mL;2
Misc Info : ;3;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 15-Mar-2010 19:32 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

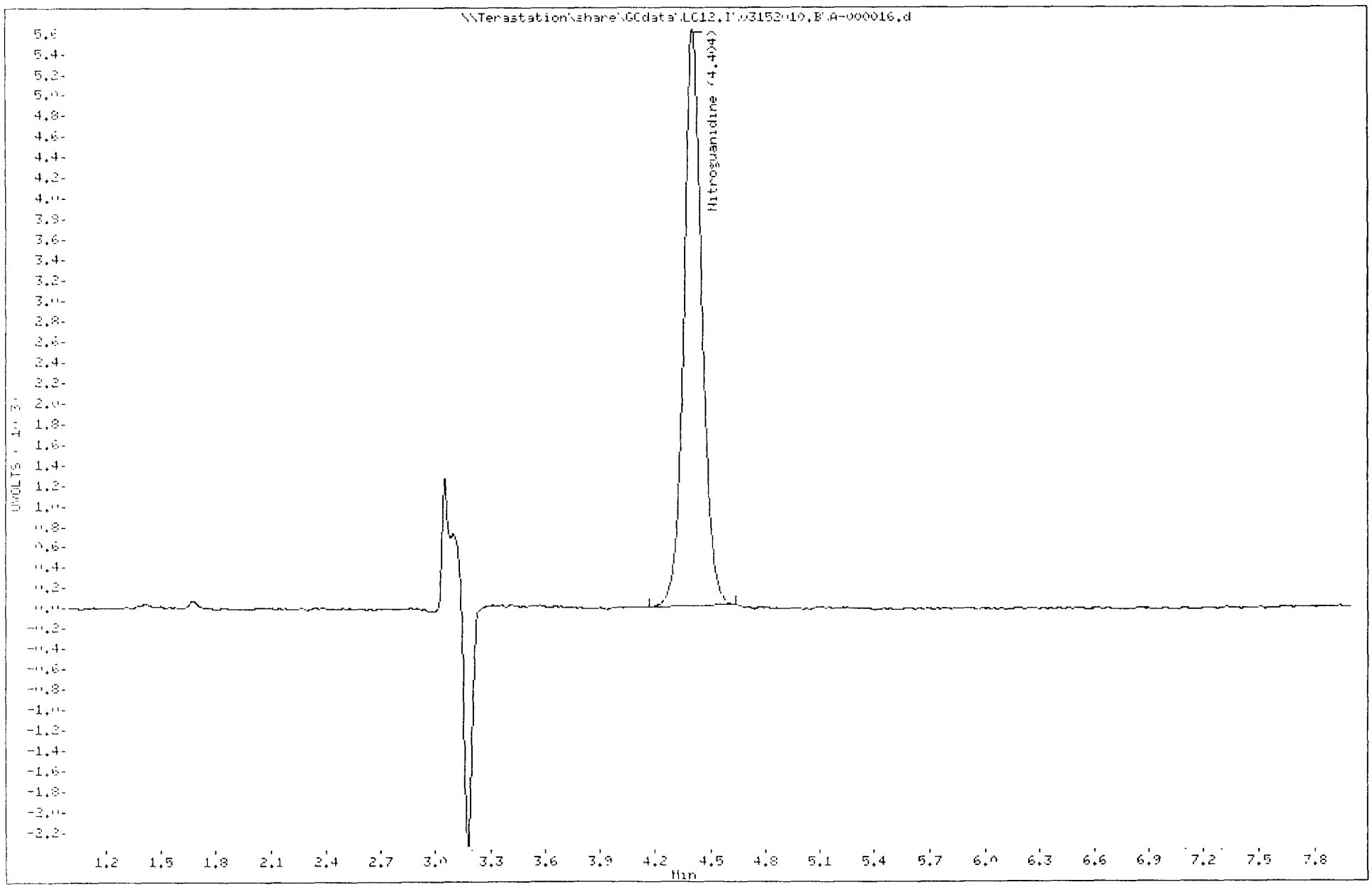
RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.057	307	86	0.280	0.791	
4.404	38435	5620	0.146	99.209	20 Nitroguanidine
	38742	5706		100.000	

Total unknown % area = 0.7910

Data File: \\Terastation\share\GCdata\LC12_I\03152019_B\A-000016.d
Date : 15-MAR-2019 19:09
Client ID:
Sample Info: CCW3 09CSW0429 NQ 100ng/mL:2

Instrument: LC12_1
Operator: DG
Column diameter: 4.60

Column phase: Luna 5u Amino



TestAmerica West Sacramento

A-000022.D

Chromatography Summary

Injection Date: 3/15/2010 20 56 **Operator:** DG

DataFile: LC12 I\03152010 B\A-000022 D **Vial Num:** 55

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LWCKF1AAB G0C050000-MB 0064232**

Method File: LC12 I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ sub **SpikeList:**

Samp. Info: LWCKF1AAB G0C050000-MB 0064232 ,0

Misc. Info ,,,2 00,10,2,NQ sub,,0,1

Signal 1 ~~UV 250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Diff	Response	Conc (ug/Kg)	Flag	RT	Diff	Response	Conc (ug/Kg)	Flag	MDL	RL	Flag
Nitroguanidine			ND								7 5000	250 00	

DEL. 3-16-10

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed: 3/16/2010 15:36

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000022.D
Lab Smp Id: LWCKF1AAB G0C050000
Inj Date : 15-MAR-2010 20:56
Operator : DG Inst ID: LC12.i
Smp Info : LWCKF1AAB G0C050000-MB 0064232 ;0
Misc Info : ;;;2.00;10;2;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 15-Mar-2010 20:00 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 55
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.071	142	42	0.295	2.297	
3.381	6047	564	0.093	97.703	
	6189	606		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000022.D

Page 2

Date : 15-MAR-2010 20:56

Client ID:

Instrument: LC12.1

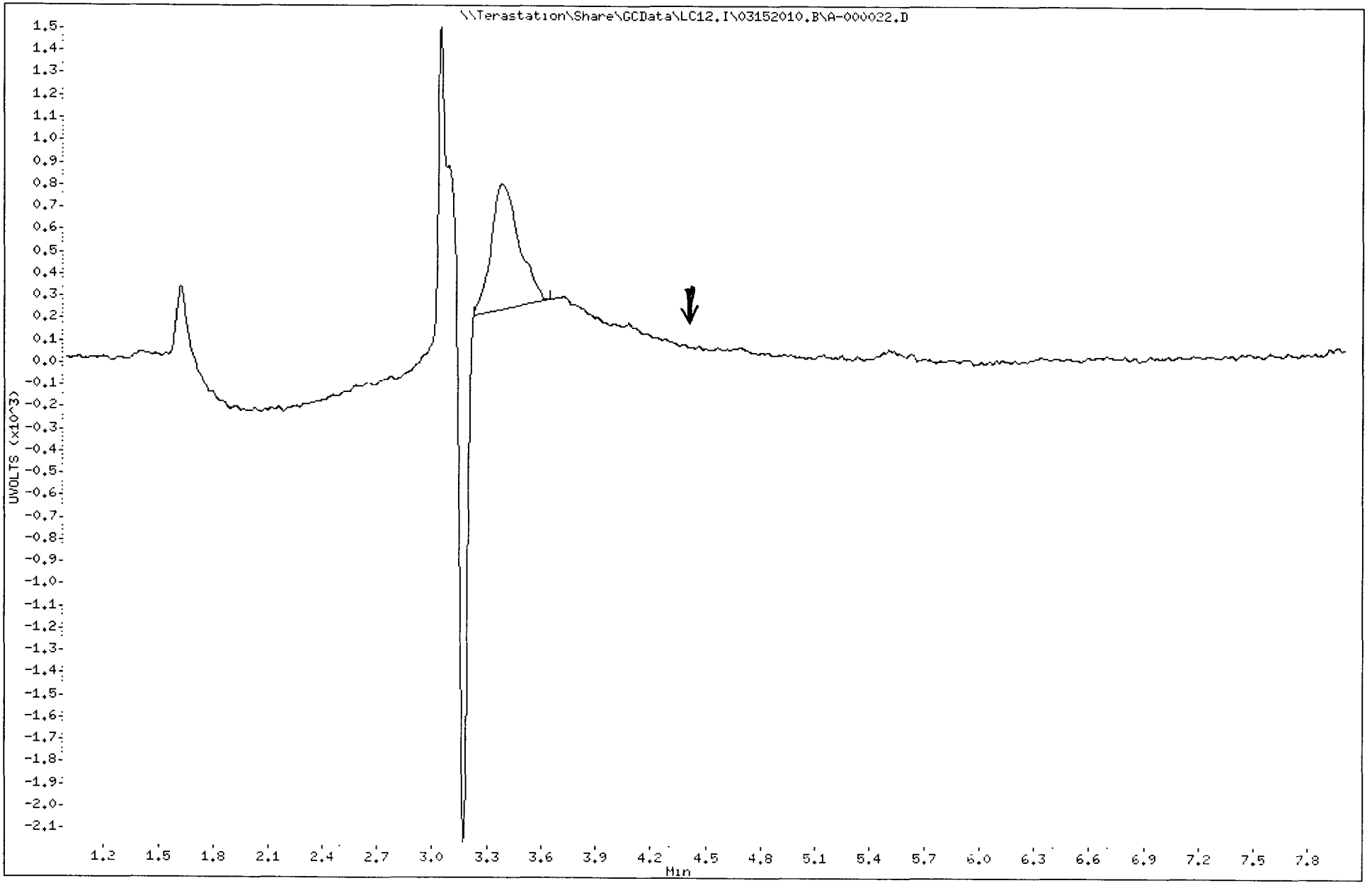
Sample Info: LWCKF1AAB GOC050000-MB 0064232 :0

Volume Injected (uL): 50.0

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



2511

North Canton

TestAmerica West Sacramento

A-000023.D

Chromatography Summary

Injection Date: 3/15/2010 21 13 **Operator:** DG

DataFile: LC12 I\03152010 B\A-000023 D **Vial Num:** 56

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LWCKF1ACC G0C050000-LCS 0064232**

Method File: LC12 I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12 2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ sub **SpikeList:** SOLIDNQ spk

Samp. Info. LWCKF1ACC G0C050000-LCS 0064232 ,3

Misc. Info: LCS,,,2 00,10,2,NQ sub,SOLIDNQ spk,1.1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.39	76129	974.3000<	1000	97%	~~Fails~~ OK	M				~~1000~~	~~0%~~ NA	~~Fails~~		(0-0)	45

DH 3-16-10

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50% Signals Differ by More Than 40%
- Signals Differ by More Than 50%

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

Pk not identified

DH 3-16-10

Printed: 3/16/2010 16 12

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03152010.B\A-000023.d
Lab Smp Id: LWCKF1ACC G0C050000
Inj Date : 15-MAR-2010 21:13
Operator : DG Inst ID: LC12.i
Smp Info : LWCKF1ACC G0C050000-LCS 0064232 ;3
Misc Info : LCS;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03152010.B\8330NQAB.m
Meth Date : 16-Mar-2010 15:41 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 56 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.058	489	99	0.202	0.600	
3.378	4892	480	0.098	6.001	
4.388	76129	11217	0.147	93.399	20 Nitroguanidine
	81511	11796		100.000	

Total unknown % area = 6.601

Data File: '\\Terastation\share\GCdata\LC12,I\03152010.B\A-000023.d

Date : 15-MAR-2010 21:13

Client ID:

Sample Info: LWCKF1ACC GOC\50000-LCS 00\64232 :3

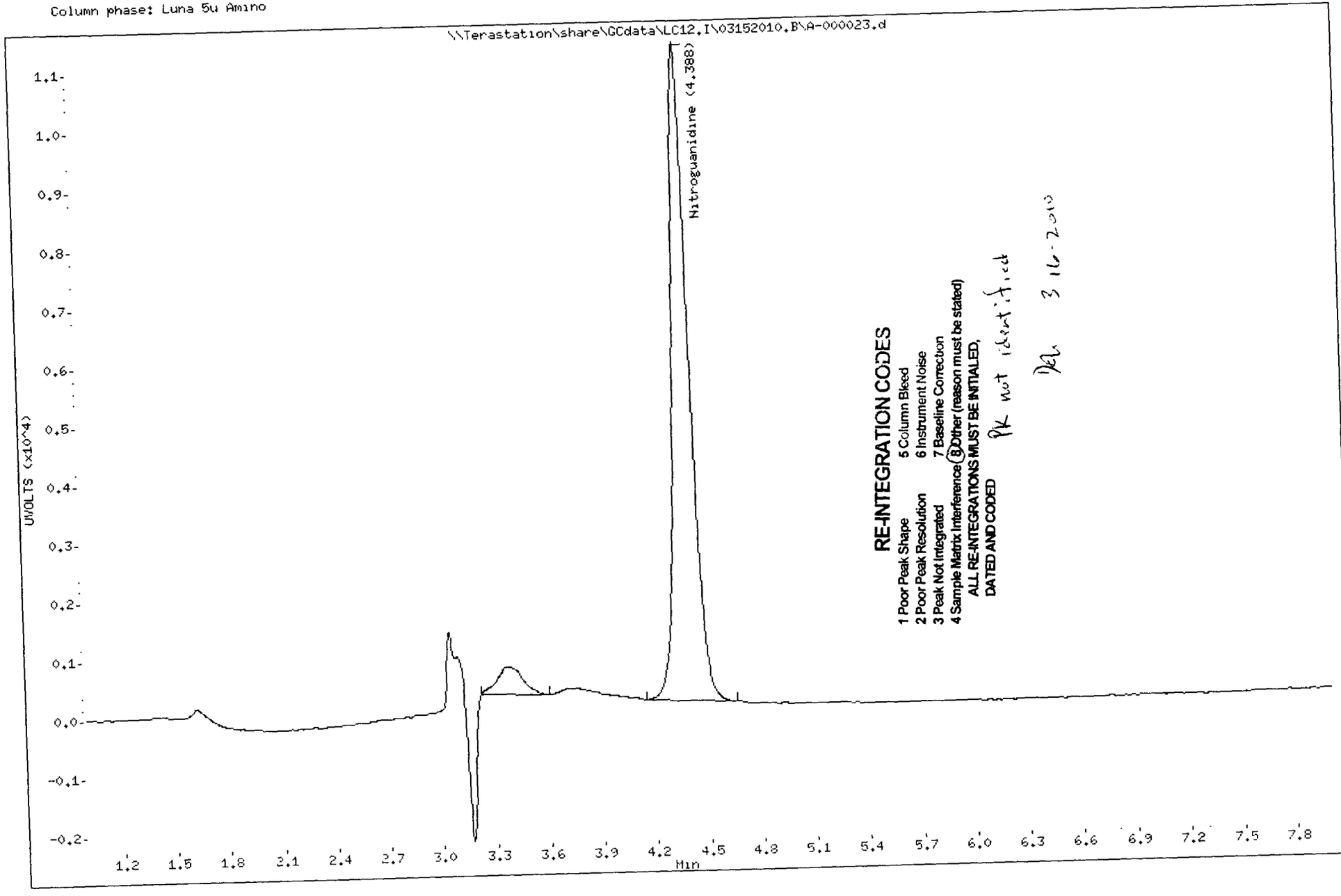
Volume Injected (uL): 50.0

Column phase: Luna 5u Amino

Instrument: LC12.1

Operator: DG

Column diameter: 4.60



RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

PK not identified

DEL 3-16-2010

2514

North Canton

TestAmerica West Sacramento

A-000023.D

Chromatography Summary

Injection Date: 3/15/2010 21 13 **Operator.** DG

DataFile: LC12 I\03152010 B\A-000023 D **Vial Num·** 56

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LWCKF1ACC G0C050000-LCS 0064232**

Method File: LC12 I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
IX	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ sub **SpikeList:** SOLIDNQ spk

Samp. Info: LWCKF1ACC G0C050000-LCS 0064232 ,3

Misc. Info: LCS,,,2 00,10,2,NQ sub,SOLIDNQ spk,1,1

Signal 1 UV~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine				**1000**	**0%**	**Fails**					**1000**	**0%**	**Fails**		**(0-0)**	

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
· = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

See reintegration.

DL 3·16·10

Printed. 3/16/2010 15·36

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000023.D
Lab Smp Id: LWCKF1ACC G0C050000
Inj Date : 15-MAR-2010 21:13
Operator : DG Inst ID: LC12.i
Smp Info : LWCKF1ACC G0C050000-LCS 0064232 ;3
Misc Info : LCS;;;2.00;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 15-Mar-2010 20:00 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 56 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

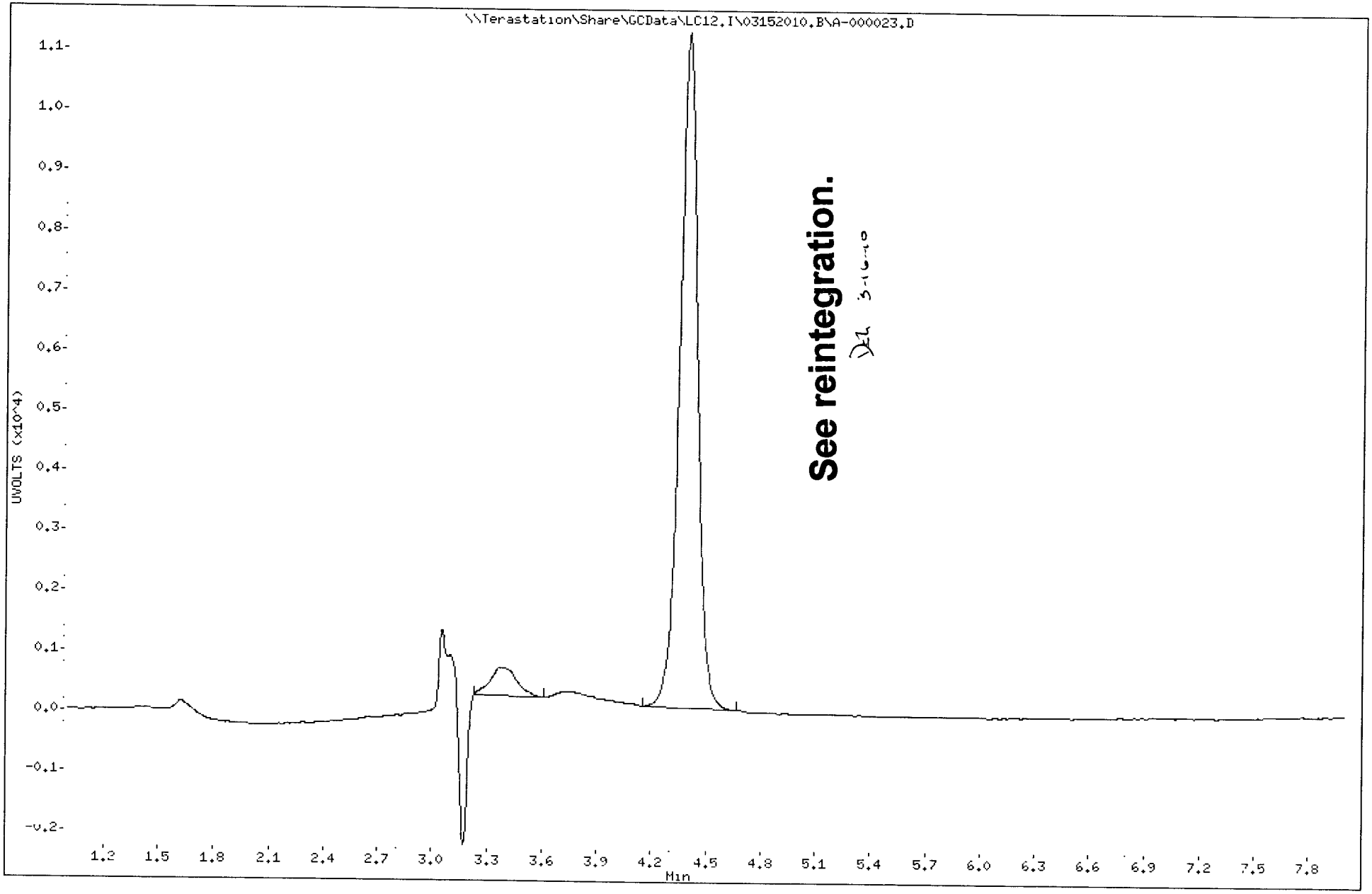
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.058	489	99	0.202	0.600	
3.378	4892	480	0.098	6.001	
4.388	76129	11217	0.147	93.399	
	81511	11796		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000023.D
Date : 15-MAR-2010 21:13
Client ID:
Sample Info: LWCKF1HCC GOC050000-LCS 0064232 ;3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.1
Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000024.D

Chromatography Summary

Injection Date: 3/15/2010 21 31 **Operator:** DG

DataFile: LC12 I\03152010 B\A-000024 D **Vial Num:** 57

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LV3KQ1A9 A0B250463-4 0064232**

Method File: LC12.I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ sub **SpikeList:**

Samp. Info: LV3KQ1A9 A0B250463-4 0064232 ,0

Misc. Info: ,,,2 00,10,2,NQ sub,,0,1

Signal 1 UV ~~350-265~~ 2.63 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Diff	Response	Conc (ug/Kg)	Flag	RT	Diff	Response	Conc (ug/Kg)	Flag	MDL	RL	Flag
Nitroguanidine				ND							7 5000	250 00	

DL 3-16-2010

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed: 3/16/2010 15 37

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000024.D
Lab Smp Id: LV3KQ1A9 A0B250463-
Inj Date : 15-MAR-2010 21:31
Operator : DG Inst ID: LC12.i
Smp Info : LV3KQ1A9 A0B250463-4 0064232 ;0
Misc Info : ;;;2.00;10;2;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 15-Mar-2010 20:00 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 57
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.057	308	84	0.273	1.532	
3.487	7122	494	0.069	35.449	
3.904	1426	277	0.194	7.096	
4.090	6068	1008	0.166	30.203	
5.024	5167	659	0.128	25.720	
	20091	2522		100.000	

Total unknown % area = 100.0

Data File: '\\Terastation\Share\GCData\LC12.I\03152010.B\A-000024.D

Page 2

Date : 15-MAR-2010 21:31

Client ID:

Instrument: LC12.1

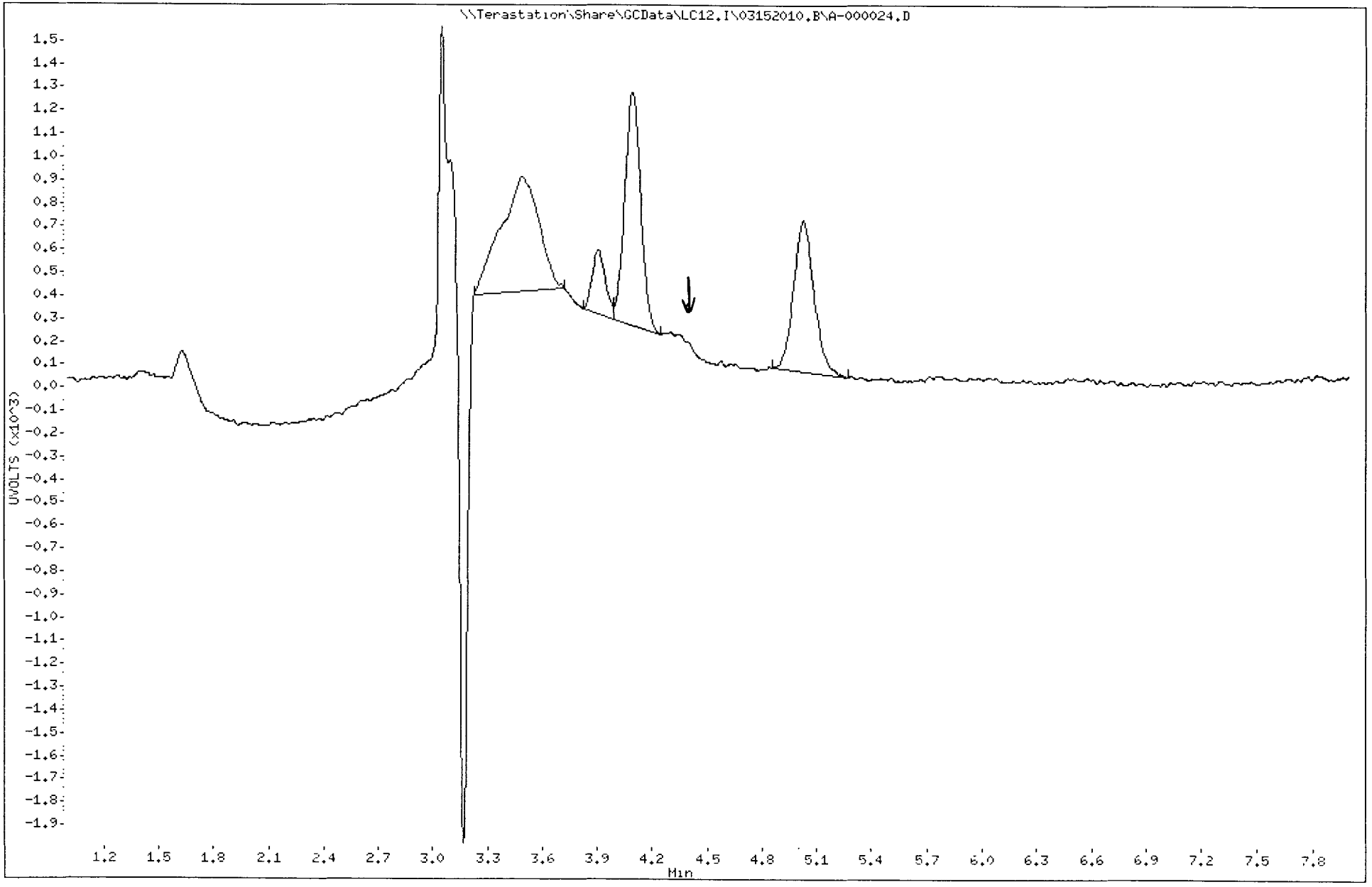
Sample Info: LV3KQ1H9 A0B250463-4 0064232 ;;

Volume Injected (uL): 50.0

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000025.D

Chromatography Summary

Injection Date: 3/15/2010 21 49 **Operator:** DG

DataFile: LC12.I\03152010 B\A-000025 D **Vial Num:** 58

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LV3KQ1CGS A0B250463-4MS 0064232**

Method File: LC12 I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ sub **SpikeList:** SOLIDNQ spk

Samp. Info: LV3KQ1CGS A0B250463-4MS 0064232 ,3

Misc. Info: LCS,,,2 04,10,2,NQ sub,SOLIDNQ spk,1,1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.39	72935	915.1000<	980 392157	93%	Fails OK	M				~~980.392157~~	~~0%~~	~~Fails~~ NA		(0-0)	45

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

RE-INTEGRATION CODES

1 Poor Peak Shape
2 Poor Peak Resolution
3 Peak Not Integrated
4 Sample Matrix Interference
5 Column Bleed
6 Instrument Noise
7 Baseline Correction
8 Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

Pk not identified

3-16-2010

Printed: 3/16/2010 16 22

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03152010.B\A-000025.d
Lab Smp Id: LV3KQ1CGS A0B250463
Inj Date : 15-MAR-2010 21:49
Operator : DG Inst ID: LC12.i
Smp Info : LV3KQ1CGS A0B250463-4MS 0064232 ;3
Misc Info : LCS;;;2.04;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03152010.B\8330NQAB.M
Meth Date : 16-Mar-2010 16:17 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 58 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

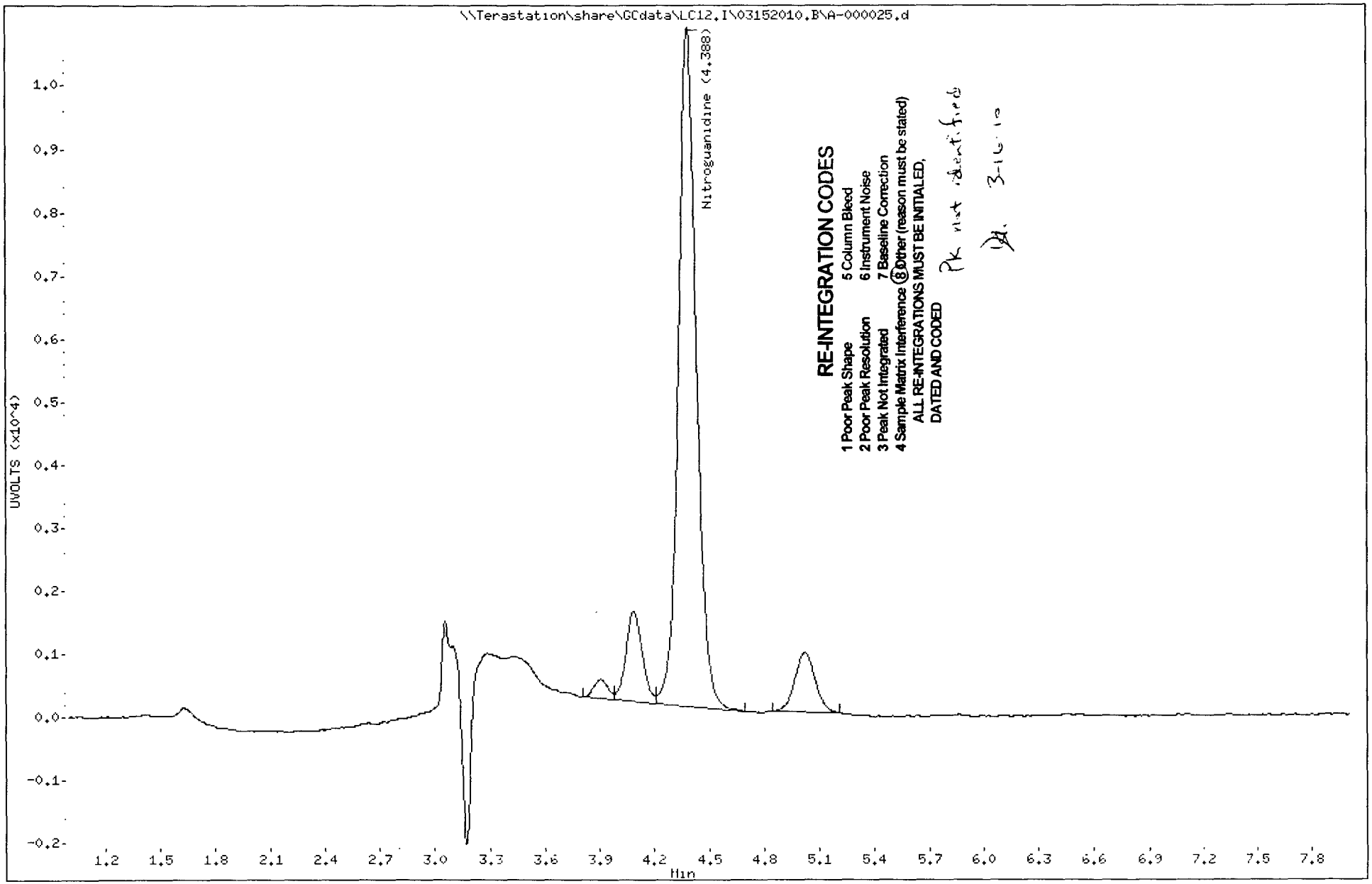
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.040	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.055	136	58	0.426	0.149	
3.908	1634	302	0.185	1.794	
4.088	9013	1425	0.158	9.897	
4.388	72936	10743	0.147	80.094	20 Nitroguanidine
5.021	7346	943	0.128	8.066	
	91065	13471		100.000	

Total unknown % area = 19.91

Data File: \\Terastation\share\GCdata\LC12,I\03152010,B\A-000025.d
Date : 15-MAR-2010 21:49
Client ID:
Sample Info: LW3A01CGS A^B250463-4MS 0064232 :3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.i
Operator: DG
Column diameter: 4.60



2523

North Canton

TestAmerica West Sacramento

A-000025.D

Chromatography Summary

Injection Date: 3/15/2010 21 49 **Operator.** DG

DataFile: LC12 I\03152010 B\A-000025 D **Vial Num:** 58

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample . **LV3KQ1CGS A0B250463-4MS 0064232**

Method File: LC12 I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix SOIL **SubList:** NQ sub **SpikeList:** SOLIDNQ spk

Samp. Info: LV3KQ1CGS A0B250463-4MS 0064232 ,3

Misc. Info: LCS,,,2 04,10,2,NQ sub,SOLIDNQ spk,1,1

	Signal 1 UV 250-265							Signal 2 UV 358-205								
Compound Name	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**RT**	**Response**	**Conc (ug/Kg)**	**Spike Level**	**%R**	**Result**	**Flag**	**Limits(%)**	**Flag**
Nitroguanidine				980 392157	**0%**	**Fails**					980 392157	**0%**	**Fails**		**(0-0)**	

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- ^ = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

See reintegration.

3-16-10 DEL

Printed: 3/16/2010 15:37

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000025.D
Lab Smp Id: LV3KQ1CGS A0B250463
Inj Date : 15-MAR-2010 21:49
Operator : DG Inst ID: LC12.i
Smp Info : LV3KQ1CGS A0B250463-4MS 0064232 ;3
Misc Info : LCS;;;2.04;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 15-Mar-2010 20:00 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 58 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

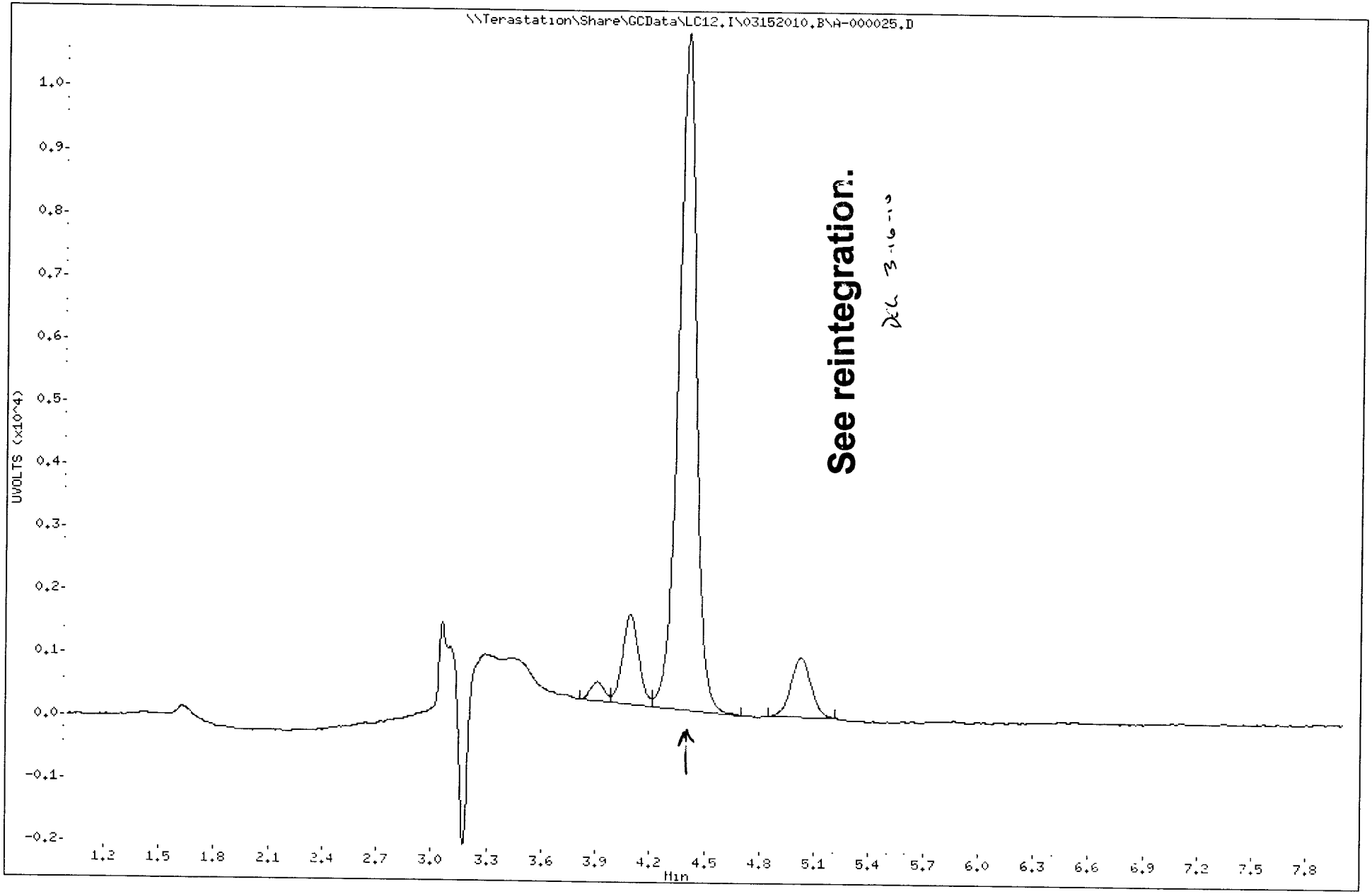
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.040	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.055	136	58	0.426	0.149	
3.908	1634	302	0.185	1.794	
4.088	9013	1425	0.158	9.897	
4.388	72936	10743	0.147	80.094	
5.021	7346	943	0.128	8.066	
	91065	13471		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000025.D
Date : 15-MAR-2010 21:49
Client ID:
Sample Info: LV3K01CGS A0B250463-4MS 0064232 ;3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.1
Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000026.D

Chromatography Summary

Injection Date: 3/15/2010 22 07 **Operator:** DG

DataFile: LC12 I\03152010 B\A-000026 D **Vial Num:** 59

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **LV3KQ1CHD A0B250463-4SD 0064232**

Method File: LC12 I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ sub **SpikeList:** SOLIDNQ.spk

Samp. Info: LV3KQ1CHD A0B250463-4SD 0064232 ,3

Misc. Info: LCS,,,2 01,10,2,NQ sub,SOLIDNQ spk.1,1

Signal 1 UV ~~250,265~~ 263 Signal 2 ~~UV 358,205~~ NA

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine	4.39	73395	934.6000<	995 024876	94%	~~Fails~~ OK	M				~~995 024876~~	~~0%~~	~~Fails~~ NA		(0-0)	45

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50% Signals Differ by More Than 40%
- Signals Differ by More Than 50%

RE-INTEGRATION CODES

1 Poor Peak Shape **5 Column Bleed**
2 Poor Peak Resolution **6 Instrument Noise**
3 Peak Not Integrated **7 Baseline Correction**
4 Sample Matrix Interference **8 Other (reason must be stated)**

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

Pk not identified
DL 3 16-10

Printed: 3/16/2010 16:22

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03152010.B\A-000026.d
Lab Smp Id: LV3KQ1CHD A0B250463
Inj Date : 15-MAR-2010 22:07
Operator : DG Inst ID: LC12.i
Smp Info : LV3KQ1CHD A0B250463-4SD 0064232 ;3
Misc Info : LCS;;;2.01;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03152010.B\8330NQAB.M
Meth Date : 16-Mar-2010 16:17 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 59 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.068	368	85	0.231	0.417	
3.911	2039	372	0.182	2.312	
4.088	7104	1105	0.156	8.056	
4.391	73395	10725	0.146	83.241	20 Nitroguanidine
5.021	5137	651	0.127	5.826	
6.498	131	30	0.229	0.148	
	88175	12968		100.000	

Total unknown % area = 16.76

Data File: \\Terastation\share\GCdata\LC12.I\031520[illegible].B\A-000026.d
Date : 15-MAR-2020 22:07
Client ID:
Sample Info: LV3K01CHD WQB560463-45D WQ64232 ;3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.1
Operator: DG
Column diameter: 4.60

RE-INTEGRATION CODES

1 Poor Peak Shape	5 Column Bleed
2 Poor Peak Resolution	6 Instrument Noise
3 Peak Not Integrated	7 Baseline Correction
4 Sample Matrix Interference	(8) Other (reason must be stated)

ALL RE-INTEGRATIONS MUST BE INITIALED, DATED AND CODED

Pk not identified

[illegible] 3 16 20

TestAmerica West Sacramento

A-000026.D

Chromatography Summary

Injection Date: 3/15/2010 22 07 **Operator:** DG

DataFile: LC12 I\03152010 B\A-000026 D **Vial Num.** 59

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LV3KQ1CHD A0B250463-4SD 0064232**

Method File: LC12 I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ sub **SpikeList:** SOLIDNQ spk

Samp. Info: LV3KQ1CHD A0B250463-4SD 0064232 ,3

Misc. Info: LCS,,,2 01,10,2,NQ sub,SOLIDNQ spk,1,1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ N/A

Compound Name	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	RT	Response	Conc (ug/Kg)	Spike Level	%R	Result	Flag	Limits(%)	Flag
Nitroguanidine				995 024876	**0%**	**Fails**					995 024876	**0%**	**Fails**		(0-0)	

See reintegration.

DL 3-16-10

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed: 3/16/2010 15 37

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000026.D
Lab Smp Id: LV3KQ1CHD A0B250463
Inj Date : 15-MAR-2010 22:07
Operator : DG Inst ID: LC12.i
Smp Info : LV3KQ1CHD A0B250463-4SD 0064232 ;3
Misc Info : LCS;;;2.01;10;2;NQ.sub;SOLIDNQ.spk;1;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 15-Mar-2010 20:00 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 59 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

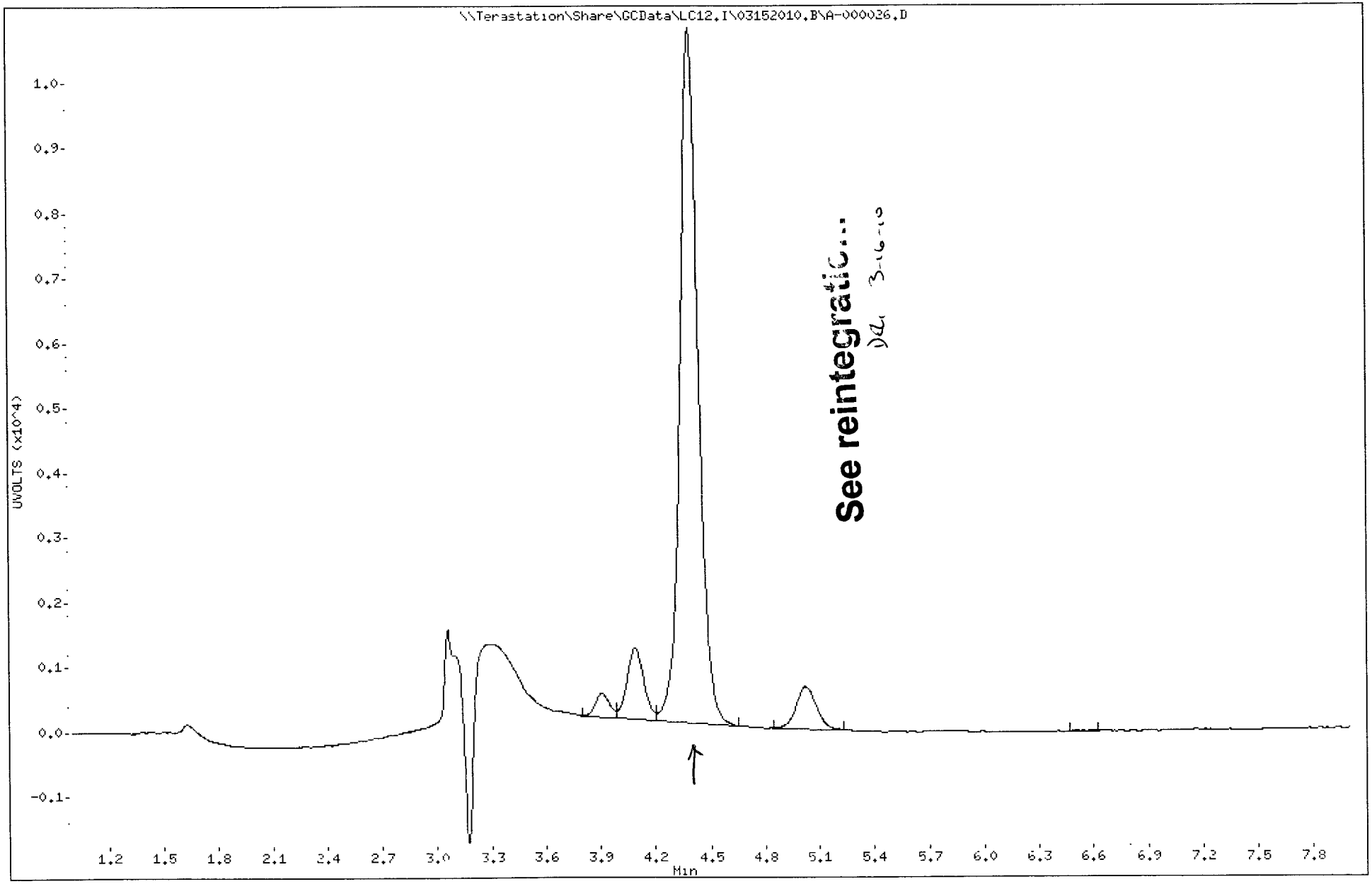
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.010	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.068	368	85	0.231	0.417	
3.911	2039	372	0.182	2.312	
4.088	7104	1105	0.156	8.056	
4.391	73395	10725	0.146	83.241	
5.021	5137	651	0.127	5.826	
6.498	131	30	0.229	0.148	
	88175	12968		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000026.D
Date : 15-MAR-2010 22:07
Client ID:
Sample Info: LV3KQ1CHD A0B25v463-4SD 0064232 :3
Volume Injected (uL): 50.0
Column phase: Luna 5u Amino

Instrument: LC12.1
Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000027.D

Chromatography Summary

Injection Date: 3/15/2010 22 25 **Operator** DG

DataFile: LC12 I\03152010 B\A-000027 D **Vial Num** 13

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CCV3 09GCSV0429 NQ 100ng/mL**

Method File: LC12 I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ sub **SpikeList.**

Samp. Info: CCV3 09GCSV0429 NQ 100ng/mL,2

Misc. Info: ,3,,,,3,NQ sub,,0,1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Nitroguanidine	4 39	38189	97 7500<	100	-2%	Acceptable					~~100~~ NA	~~-100%~~ NA	~~Fails~~		(±15)	45

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

CCV in control
DL 3-16-10

Printed: 3/16/2010 15.37

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Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000027.D
Lab Smp Id: CCV3 09GCSV0429 NQ
Inj Date : 15-MAR-2010 22:25
Operator : DG Inst ID: LC12.i
Smp Info : CCV3 09GCSV0429 NQ 100ng/mL;2
Misc Info : ;3;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 15-Mar-2010 22:43 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.069	557	97	0.174	1.437	
4.389	38190	5611	0.147	98.563	20 Nitroguanidine
	38747	5708		100.000	

Total unknown % area = 1.437

Data File: \\Terastation\Share\GCData\LC12_1\031520[illegible]_B\A-[illegible]27.D

Page 2

Date : 15-MAR-20[illegible] 22:25

Client ID:

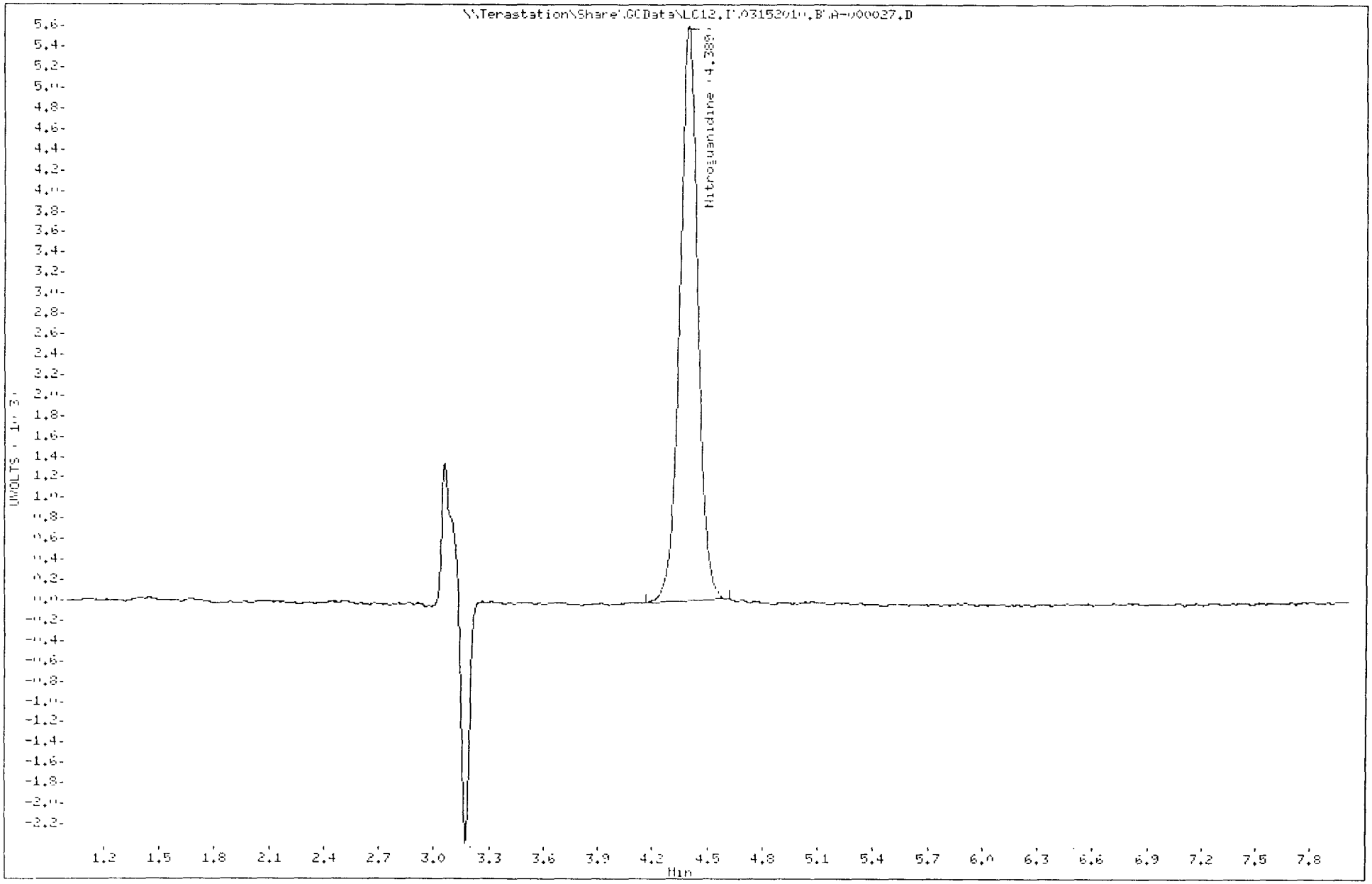
Instrument: LC12_1

Sample Info: CCV3 [illegible]GCSW0429 NQ 10[illegible]mg/mL:2

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000028.D

Chromatography Summary

Injection Date: 3/15/2010 22 43 **Operator:** DG

DataFile: LC12 I\03152010 B\A-000028 D **Vial Num:** 60

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **LV3KR1AL A0B250463-5 0064232**

Method File: LC12 I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ sub **SpikeList:**

Samp. Info: LV3KR1AL A0B250463-5 0064232 ,0

Misc. Info: ,,,2 03,10,2,NQ sub,,0,1

Signal 1 UV ~~250 265~~ 265 Signal 2 ~~UV 358 205~~ NA

Compound Name	RT	Diff	Response	Conc (ug/Kg)	Flag	RT	Diff	Response	Conc (ug/Kg)	Flag	MDL	RL	Flag
Nitroguanidine			ND								7 3892	246 31	

DL 3-16-10

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed: 3/16/2010 15:37

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000028.D
Lab Smp Id: LV3KR1AL A0B250463-
Inj Date : 15-MAR-2010 22:43
Operator : DG Inst ID: LC12.i
Smp Info : LV3KR1AL A0B250463-5 0064232 ;0
Misc Info : ;;;2.03;10;2;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 15-Mar-2010 22:43 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 60
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.030	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.060	229	76	0.333	13.579	
3.334	1454	257	0.177	86.421	
	1683	333		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12,I\03152010,B\A-000028.D

Page 2

Date : 15-MAR-2010 22:43

Client ID:

Instrument: LC12.1

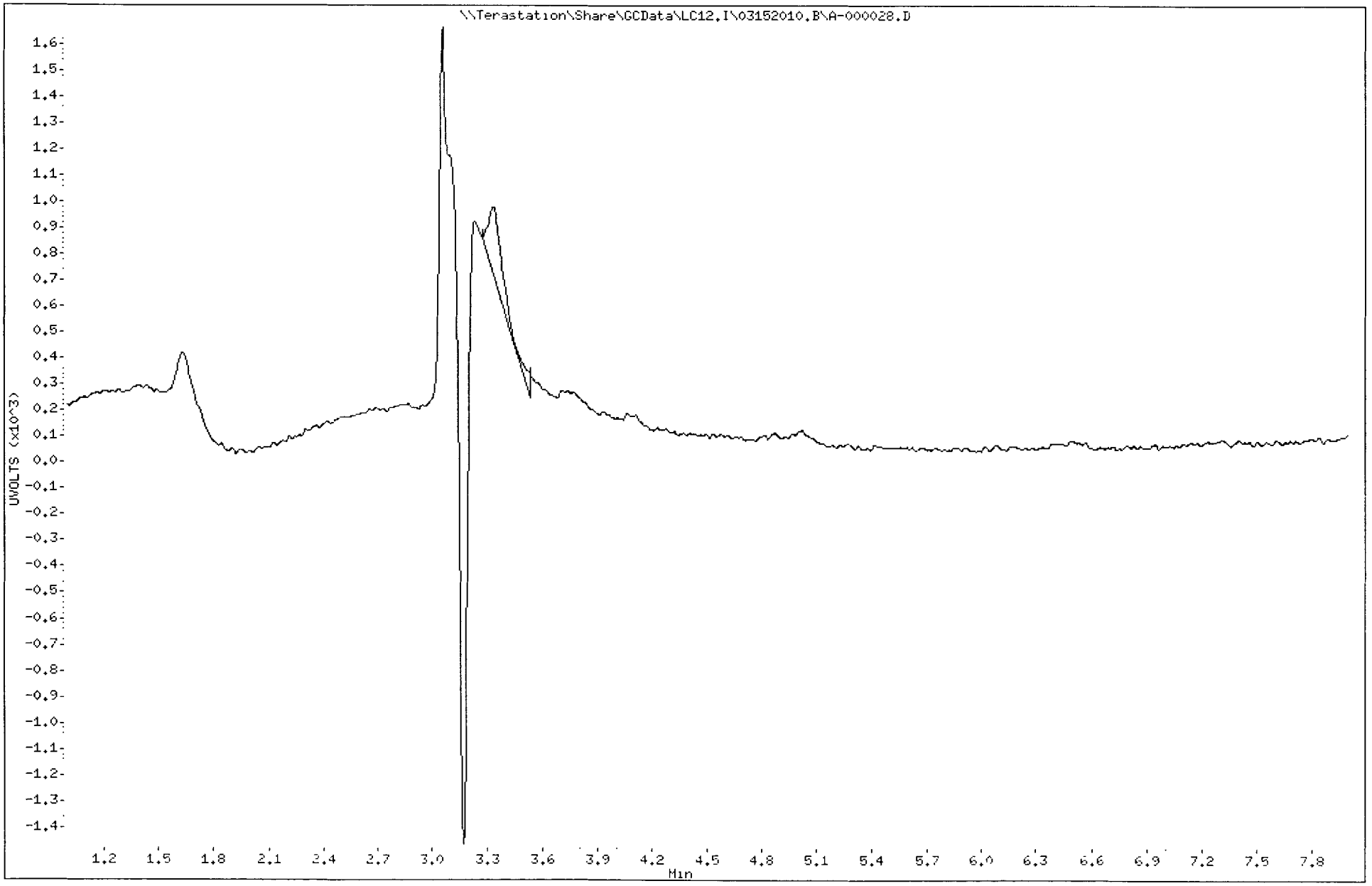
Sample Info: LV3KR1AL A0B250463-5 0064232 ;0

Volume Injected (uL): 50.0

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000029.D

Chromatography Summary

Injection Date: 3/15/2010 23 01 **Operator:** DG

DataFile: LC12 I\03152010 B\A-000029 D **Vial Num:** 61

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample . **LV3LJ1A8 A0B250463-18 0064232**

Method File: LC12 I\03152010 B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
IX	10 mL	0 mL	2 g

Matrix: SOIL **SubList:** NQ sub **SpikeList:**

Samp Info: LV3LJ1A8 A0B250463-18 0064232 ,0

Misc. Info: ,,,2 00,10,2,NQ sub,,0,1

Signal 1 UV ~~250,265~~ 263 Signal 2 ~~UV 358,205~~ NA

Compound Name	RT	Diff	Response	Conc (ug/Kg)	Flag	RT	Diff	Response	Conc (ug/Kg)	Flag	MDL	RL	Flag
Nitroguanidine				ND							7 5000	250 00	

DLH 3-16-10

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed. 3/16/2010 15 37

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Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000029.D
Lab Smp Id: LV3LJ1A8 A0B250463-
Inj Date : 15-MAR-2010 23:01
Operator : DG Inst ID: LC12.i
Smp Info : LV3LJ1A8 A0B250463-18 0064232 ;0
Misc Info : ;;;2.00;10;2;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 15-Mar-2010 22:43 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 61
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

Concentration Formula: Amt * DF * Uf*Vt / Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Correction Factor
Vt	10.000	Volume of final extract (mL)(1000 low, 2
Ws	2.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.061	165	62	0.377	1.318	
3.385	2088	249	0.119	16.726	
4.078	5597	863	0.154	44.825	
5.001	4636	619	0.134	37.131	
	12486	1793		100.000	

Total unknown % area = 100.0

Data File: \\Terastation\Share\GCData\LC12.I\03152010.B\A-000029.D

Page 2

Date : 15-MAR-2010 23:01

Client ID:

Instrument: LC12.1

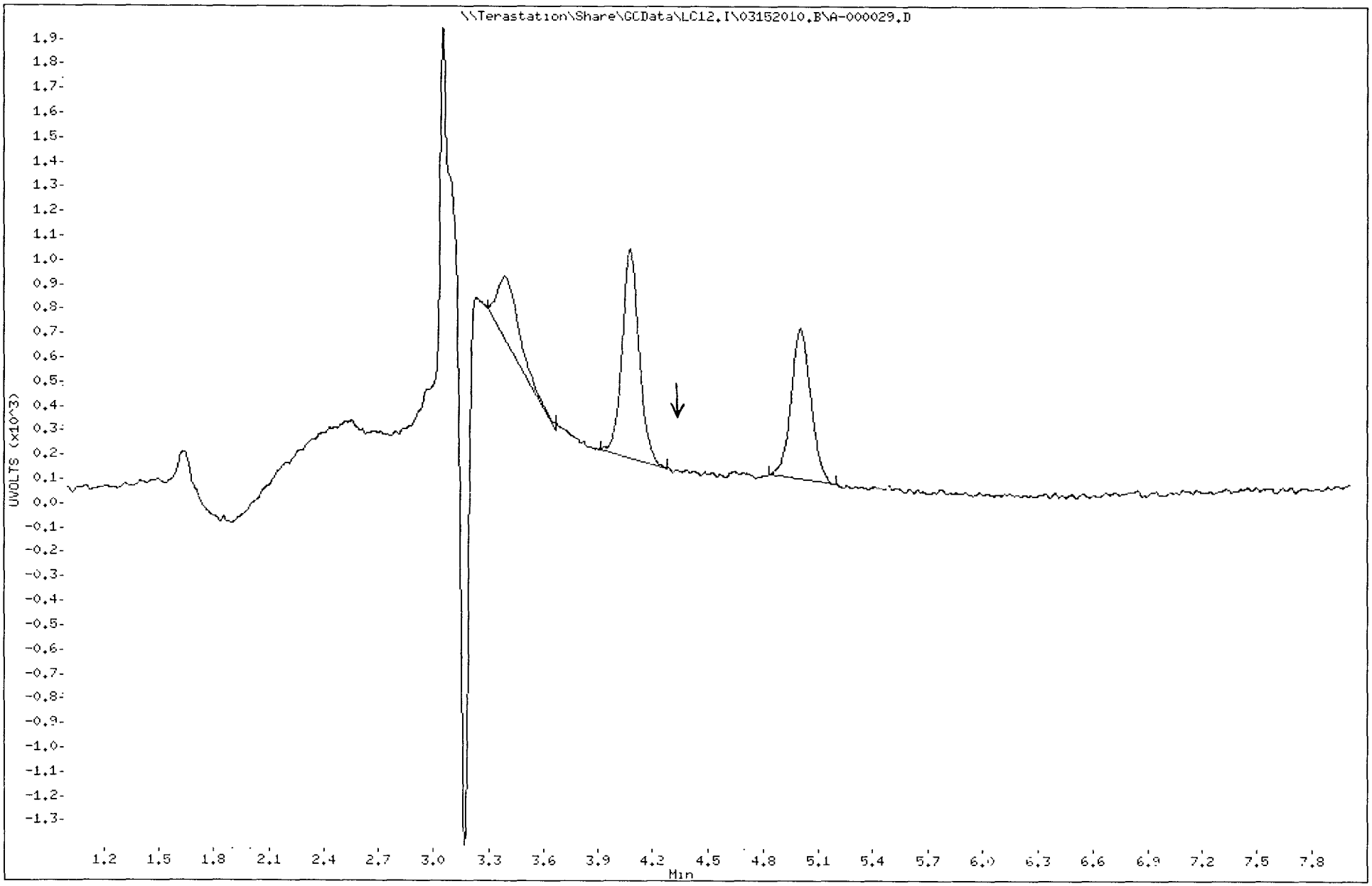
Sample Info: LV3LJ1A8 A0B250463-18 0064232 10

Volume Injected (uL): 50.0

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000038.D

Chromatography Summary

Injection Date: 3/16/2010 1 42 **Operator:** DG

DataFile: LC12 I\03152010 B\A-000038 D **Vial Num:** 13

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CCV3 09GCSV0429 NQ 100ng/mL**

Method File: LC12 I\03152010.B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ sub **SpikeList:**

Samp. Info: CCV3 09GCSV0429 NQ 100ng/mL,2

Misc. Info: .3,,,,3,NQ sub,,0.1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Nitroguanidine	4 38	38366	98 2000<	100	-2%	Acceptable					~~100~~	~~100%~~	~~Fails~~ NA		(±15)	45

DEG 3-16-10

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

CCV in control.

Printed: 3/16/2010 15.39

TestAmerica

Method 8330 Nitroguanidine

Data file : \\Terastation\Share\GCData\LC12.I\03152010.B\A-000038.D
Lab Smp Id: CCV3 09GCSV0429 NQ
Inj Date : 16-MAR-2010 01:42
Operator : DG Inst ID: LC12.i
Smp Info : CCV3 09GCSV0429 NQ 100ng/mL;2
Misc Info : ;3;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\Share\GCData\LC12.I\03152010.B\8330NQAB.m
Meth Date : 16-Mar-2010 02:00 tap Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACPLC12

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.061	464	111	0.239	1.195	
4.377	38366	5628	0.147	98.805	20 Nitroguanidine
	38830	5739		100.000	

Total unknown % area = 1.195

Data File: \\Terastation\Share\GCData\LC12,I\03152010,B\A-000038,D

Page 2

Date : 16-MAR-2010 01:42

Client ID:

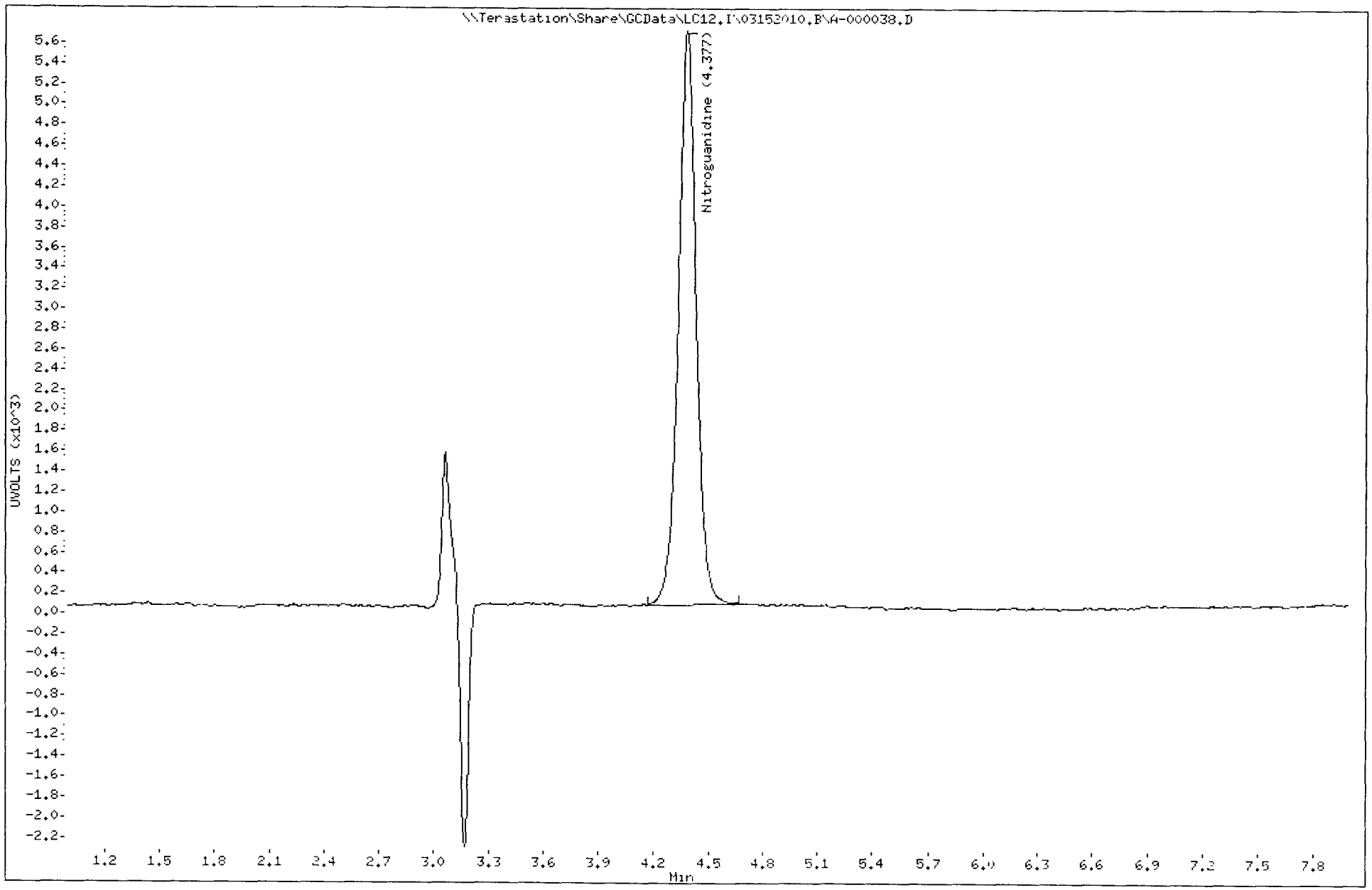
Instrument: LC12,1

Sample Info: CCV3 @GCSW0429 NQ 100ng/mL;2

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

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THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

GC/HPLC ICAL Checklist

Instrument ID: LC-12 ICAL ID: NQ-031220108 Method: 8330 NQ

Analytes Included in curve (with dates): Nitroguanidine

A. Included Sections of ICAL	Analyst	Reviewer	N/A
1. ICAL Summary included (for both columns if applicable).	✓	✓	
2. ICAL Runlog included.	✓	✓	
3. ICV Included and moved to after summary.	✓	✓	
4. PEM meets requirements and is included for 8081.			✓
5. Alkane Marker included for 8015 TPH.			✓
6. ICAL Raw Data included for all analytes.	✓	✓	
B. ICAL Summary			
1. All analytes meet %RSD or linear regression requirements. = 2.3%	✓	✓	
2. ICAL meets requirements stated in SOP.	✓	✓	
2. Any levels dropped are reviewed and appropriate.			✓
3. All analytes in ICAL are in the ICAL summary.	✓	✓	
4. RFs are calculated correctly. Perform Manual calculation.	✓	✓	
C. ICAL Analysis			
1. Manual Integrations reviewed and appropriate.			✓
2. All peaks correctly identified.	✓	✓	
3. No analytes have saturated peaks.	✓	✓	
4. RT windows set correctly (8015 TPH).			✓
5. ICV meets requirements and is run after the ICAL.	✓	✓	
6. Standards used in ICAL are current.	✓	✓	
7. ICAL is copied to source method.	✓	✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ, 8310) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
AFCEE 3.1	✓		RSD ≤20%, r≥ 0.995, ICV≤15%, PEM ≤15%
AFCEE 4.0	✓		RSD ≤20%, r≥ 0.995, ICV≤20% (8081, 8082, 8015) and ICV≤25% (8330,8310), PEM ≤15%

Analyst: DEGall Date: 3-12-2010

Reviewer: MKelly Date: 3/15/2010

Comments:

TestAmerica West Sacramento

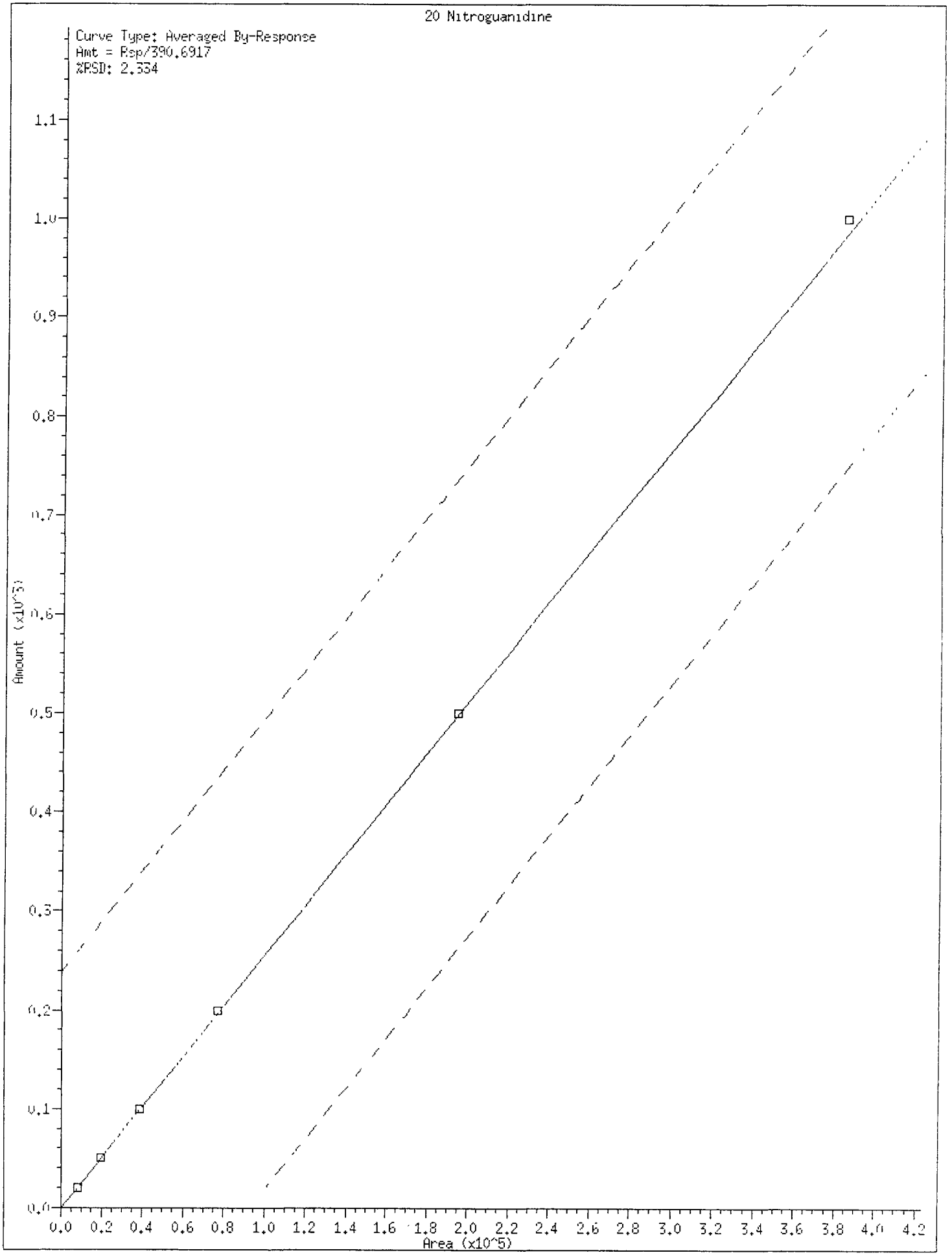
INITIAL CALIBRATION DATA

Start Cal Date : 30-JUN-2009 16:49
End Cal Date : 12-MAR-2010 19:22
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.M
Last Edit : 12-Mar-2010 20:47 galld
Curve Type : Average

Calibration File Names:
Level 1: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000004.d
Level 2: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000005.d
Level 3: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000006.d
Level 4: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000007.d
Level 5: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000008.d
Level 6: \\Terastation\share\GCdata\GCdata\LC12.I\03122010B.B\A-000009.d

3/15/2010 MLW

Compound	20 000 Level 1	50.000 Level 2	100 000 Level 3	200.000 Level 4	500 000 Level 5	1000 000 Level 6	RRF	% RSD
20 Nitroguanidine	409	390	387	386	388	385	391	2 334


20 Nitroguanidine
Curve Type: Averaged By-Response
Amt = Rsp/390.6917
%RSD: 2.334
Amount (x10^5)
Area (x10^5)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2

Compound Listing For: 20 Nitroguanidine

Compound Type: Target
ISTD Group #: 1
ESTD Group #: 1
Lab ID: CAS #: 556-88-7
RT Window: 0.20
Quant By: Area

Signal: 1
ID Method: Hit Closest to RT
Expected RT: 4.416 RT Window: 4.216 - 4.616

Calibration table parameters

Curve Type: Averaged Curve Origin: Disabled
Calibration Curve: Amt = Rsp/3.90691667e+002
%RSD: 2.334
Continuing Cal RF: 1.13200e+001
% Difference: -97.1026

Levl	Active	Reps	Amount	Response	RTReps	RT
1	Enabled	1	20.00000	8179	1	4.404367
2	Enabled	1	50.00000	19478	1	4.401033
3	Enabled	1	100.00000	38685	1	4.402283
4	Enabled	1	200.00000	77102	1	4.412700
5	Enabled	1	500.00000	194244	1	4.415617
6	Enabled	1	1000.00000	384792	1	4.401867

Compound Report Parameters

Graphic Display Time Range: 0.50
Graphic Overlay Time Range: 0.50
Sample Form Report Order: 19
CpndVariable: 1.00
Gas Samples: 10.00000
Liquid Samples: 20.00000
Solid Samples(Low Conc): 250.00000
Solid Samples(Med Conc): 0.00000
Max Compound Amt Limit: 1000.00000
Minimum r^2: 0.99
Minimum RF: 0.00
Maximum %RSD: 20.00
Maximum %D: 15.00
Maximum %Drift: 0.00

TestAmerica West Sacramento
GC/LC INSTRUMENT LOG

Page# _____

Inst ID: LC12 Batch ID: 03122010B
Method : Method 8330 Nitroguanidine Test : SOP WS-LC-0010
ICAL Date: See Calibration Report

Date	Time	Operator	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	Comments
12-MAR-2010	17:17	DG	Primer 1000	A-000002	0 g	0 mL	1	
12-MAR-2010	17.35	DG	Water blank	A-000003.	0 g	0 mL	1	
12-MAR-2010	17 53	DG	CS01 09GCSV0427 NQ 20ng/mL	A-000004.	0 g	0 mL	1	
12-MAR-2010	18:11	DG	CS02 09GCSV0428 NQ 50ng/mL	A-000005	0 g	0 mL	1	
12-MAR-2010	18 29	DG	CS03 09GCSV0429 NQ 100ng/mL	A-000006.	0 g	0 mL	1	
12-MAR-2010	18:47	DG	CS04 09GCSV0430 NQ 200ng/mL	A-000007.	0 g	0 mL	1	
12-MAR-2010	19 04	DG	CS05 09GCSV0431 NQ 500ng/mL	A-000008.	0 g	0 mL	1	
12-MAR-2010	19:22	DG	CS06 09GCSV0432 NQ 1000ng/mL	A-000009.	0 g	0 mL	1	
12-MAR-2010	19:40	DG	Water blank	A-000010.	0 g	0 mL	1	
12-MAR-2010	19 58	DG	ICV 10GCSV0109 NQ 200ng/mL	A-000011.	0 g	0 mL	1	
12-MAR-2010	20:16	DG	LODV 09GCSV0426 NQ 15ng/mL	A-000012	0 g	0 mL	1	

Run in progress.
3-12-2010

TestAmerica West Sacramento

A-000011.D

Chromatography Summary

Injection Date: 3/12/2010 19 58 **Operator:** DG

DataFile. LC12 I\03122010B B\A-000011 D **Vial Num:** 17

Instrument ID. LC12

Method 8330 Target Analyte Results

Sample : **ICV 10GCSV0109 NQ 200ng/mL**

Method File: LC12 I\03122010B B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ sub **SpikeList:**

Samp. Info: ICV 10GCSV0109 NQ 200ng/mL,2

Misc. Info: ,4,,,,3,NQ sub,,0,1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358:205~~ UV-A

Compound Name	RT	Response	PPB	Spike Level	%D	Result	Flag	RT	Response	PPB	Spike Level	%D	Result	Flag	Limits(%)	Flag
Nitroguanidine	4 41	80046	204 9000<	200	2%	Acceptable					200	100%	Fails		(±15)	45

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/12/2010 21 22

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000011.d
Lab Smp Id: ICV 10GCSV0109 NQ 2
Inj Date : 12-MAR-2010 19:58
Operator : DG Inst ID: LC12.i
Smp Info : ICV 10GCSV0109 NQ 200ng/mL;2
Misc Info : ;4;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 21:22 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.053	374	82	0.219	0.465	
4.413	80046	11577	0.145	99.535	20 Nitroguanidine
	80421	11659		100.000	

Total unknown % area = 0.4650

Data File: '\\Terastation\share\GCdata\LC12.I\03122010B.B\A-000011.d

Date : 12-MAR-2010 19:58

Client ID:

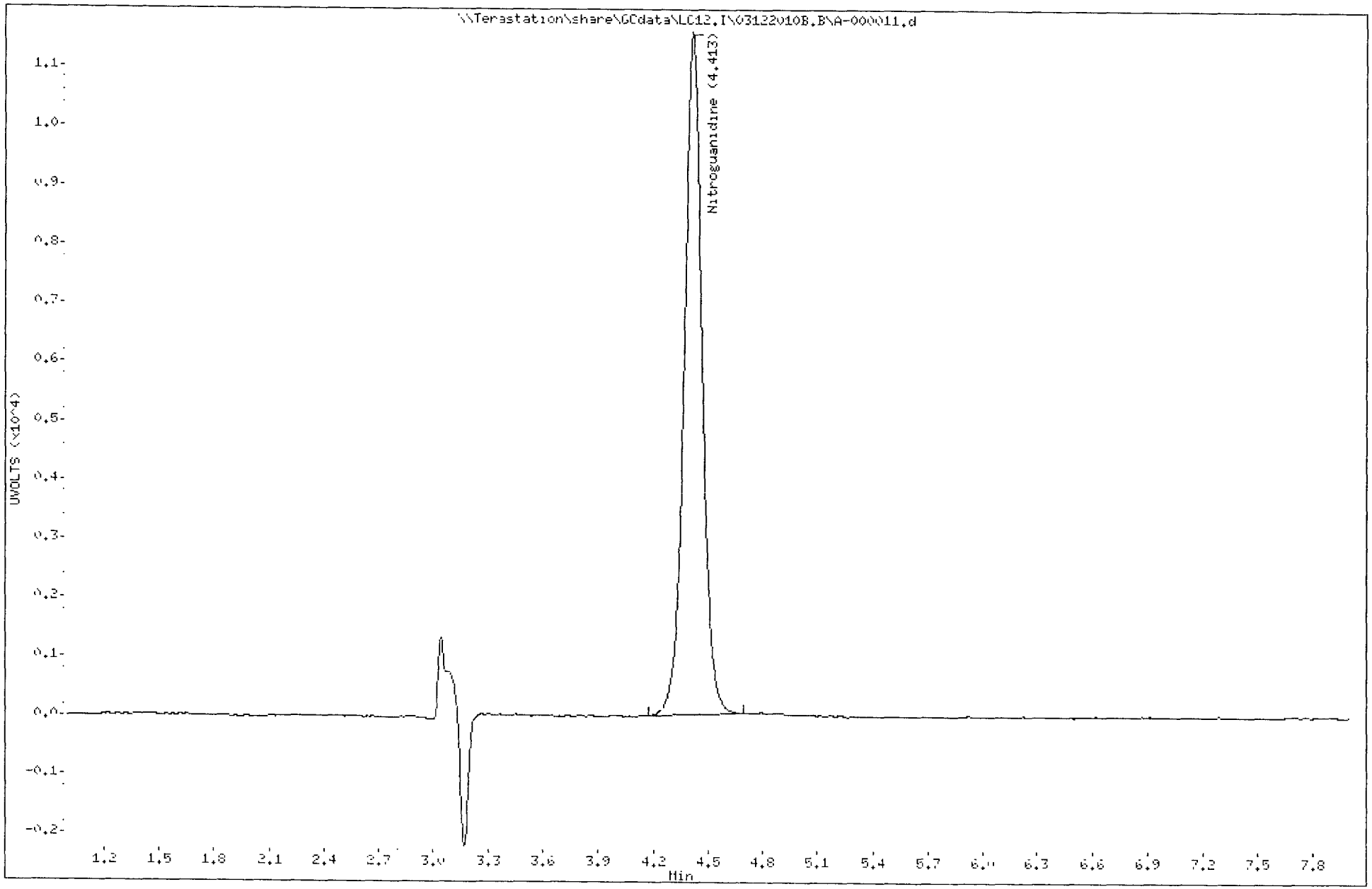
Sample Info: ICV 10GCSW0109 NO 200ng/mL:2

Column phase: Luna 5u Amino

Instrument: LC12.1

Operator: DG

Column diameter: 4.60



TestAmerica West Sacramento

A-000004.D

Chromatography Summary

Injection Date: 3/12/2010 17 53 **Operator:** DG

DataFile: LC12 I\03122010B B\A-000004 D **Vial Num.** 11

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample . **CS01 09GCSV0427 NQ 20ng/mL**

Method File: LC12 I\03122010B B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ.sub **SpikeList:**

Samp. Info: CS01 09GCSV0427 NQ 20ng/mL,1

Misc. Info: ,1,;,,3,NQ sub,,0,1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV-358-205~~ NA

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	8179	20		408.95			20		0

Det. 3-12-10

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/12/2010 20:32

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000004.d
Lab Smp Id: CS01 09GCSV0427 NQ
Inj Date : 12-MAR-2010 17:53
Operator : DG Inst ID: LC12.i
Smp Info : CS01 09GCSV0427 NQ 20ng/mL;1
Misc Info : ;1;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:32 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 11 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.061	230	74	0.322	2.732	
4.404	8179	1162	0.142	97.268	20 Nitroguanidine
	8409	1236		100.000	

Total unknown % area = 2.732

Data File: \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000004.d

Page 2

Date : 12-MAR-2010 17:53

Client ID:

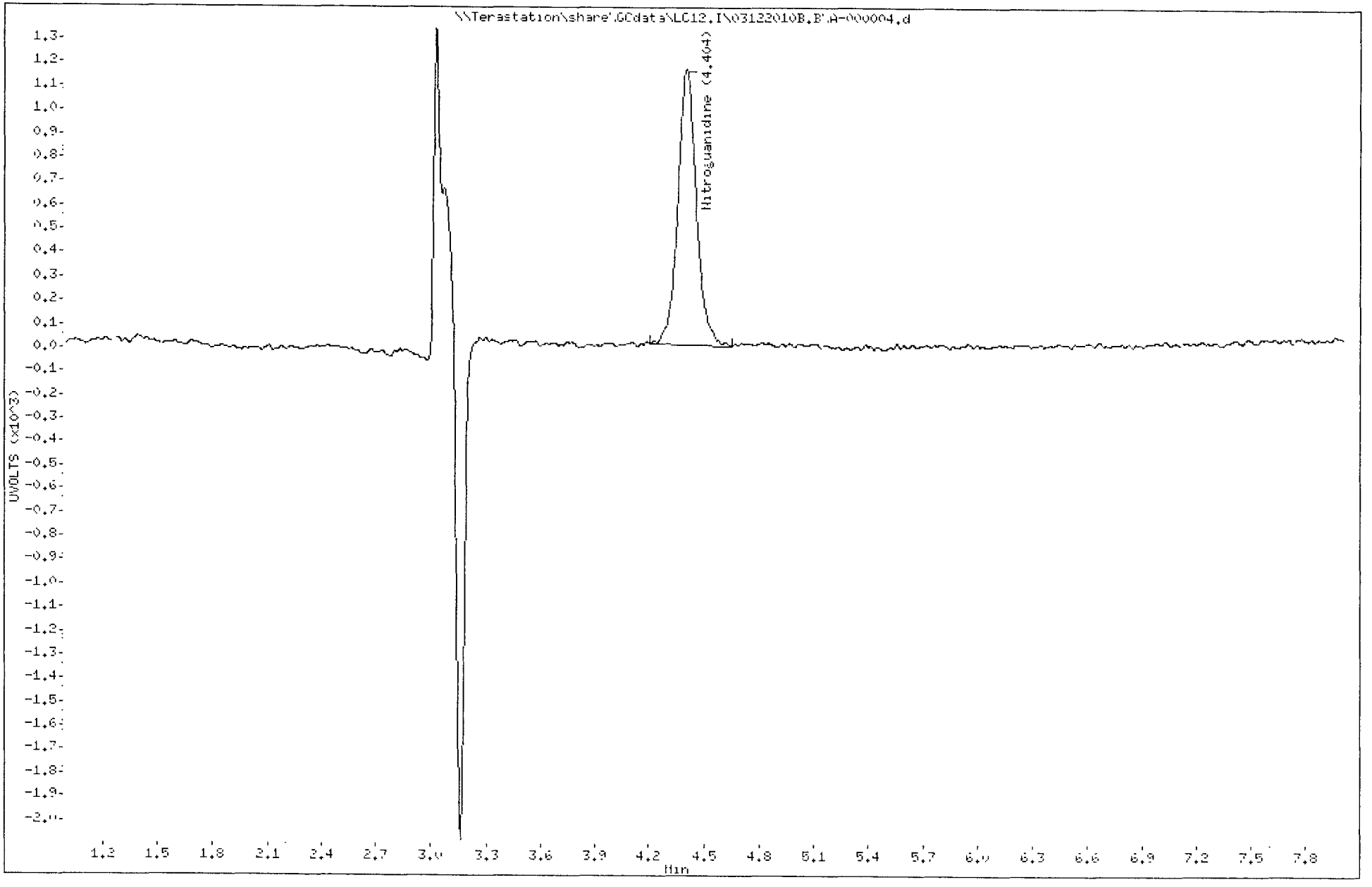
Instrument: LC12.1

Sample Info: CS01 09CCSW0427 NQ 20ng/mL:1

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000005.D

Chromatography Summary

Injection Date: 3/12/2010 18 11 **Operator:** DG

DataFile: LC12 I\03122010B B\A-000005 D **Vial Num:** 12

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CS02 09GCSV0428 NQ 50ng/mL**

Method File: LC12 I\03122010B B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ sub **SpikeList:**

Samp. Info: CS02 09GCSV0428 NQ 50ng/mL,1

Misc. Info: ,2,,,,3,NQ sub,,0,1

Signal 1 UV ~~250-265~~ 253 Signal 2 ~~UV 358-205~~

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	19478	50		389.56			50		0

DCL 3-12-10

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

Printed: 3/12/2010 20:32

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000005.d
Lab Smp Id: CS02 09GCSV0428 NQ
Inj Date : 12-MAR-2010 18:11
Operator : DG Inst ID: LC12.i
Smp Info : CS02 09GCSV0428 NQ 50ng/mL;1
Misc Info : ;2;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:32 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 12 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.054	207	71	0.343	1.050	
4.401	19479	2816	0.145	98.950	20 Nitroguanidine
	19685	2887		100.000	

Total unknown % area = 1.050

Data File: \\Terastation\share\GCdata\LC12,I\03122010B,B\A-000005,d

Page 2

Date : 12-MAR-2010 18:11

Client ID:

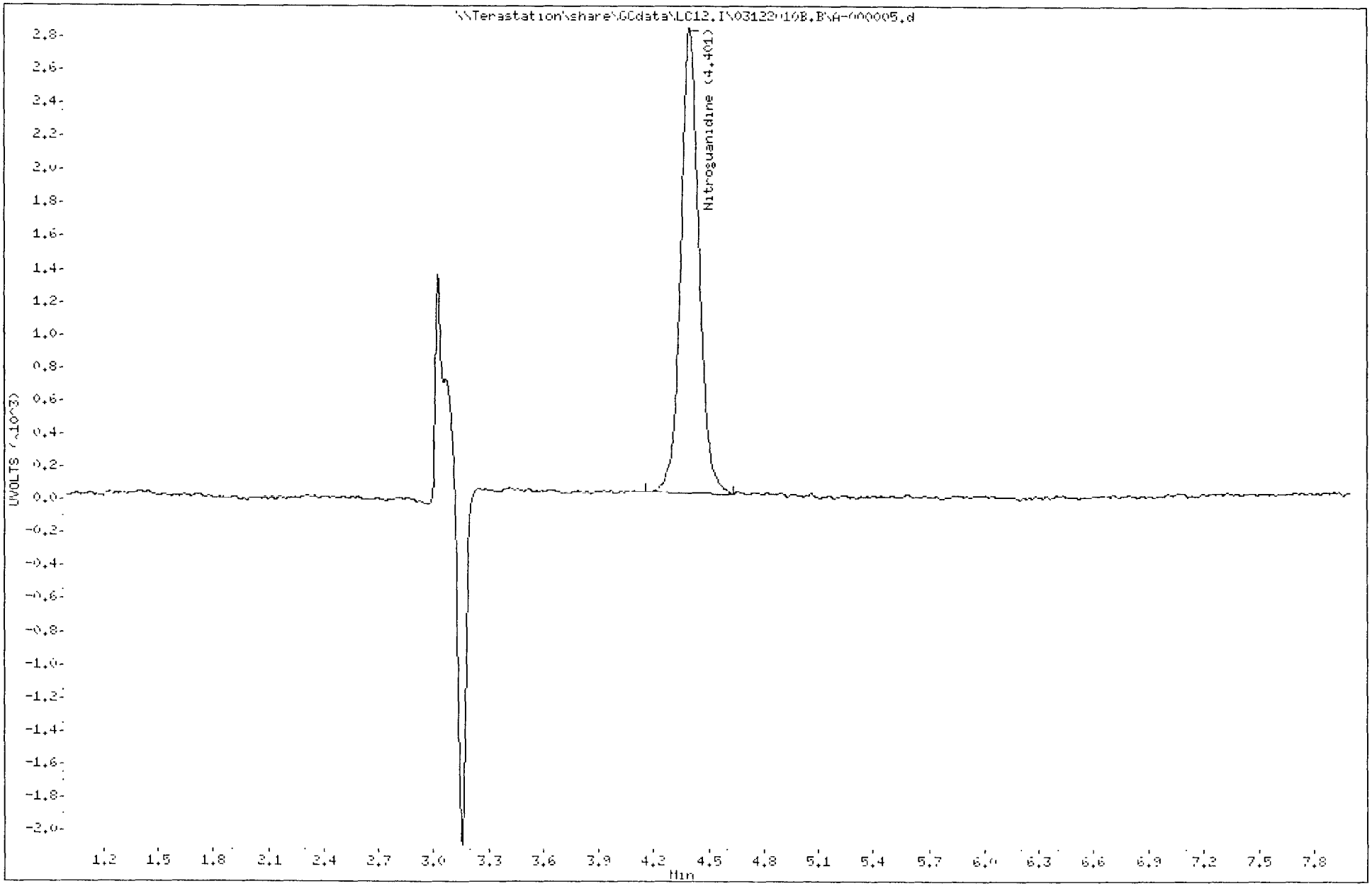
Instrument: LC12,1

Sample Info: CSV2 09CSW0428 NO 5mg/mL:1

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000006.D

Chromatography Summary

Injection Date: 3/12/2010 18 29 **Operator:** DG

DataFile: LC12 I\03122010B B\A-000006 D **Vial Num:** 13

Method 8330 Target Analyte Results

Instrument ID: LC12

Sample : **CS03 09GCSV0429 NQ 100ng/mL**

Method File: LC12 I\03122010B B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ sub **SpikeList:**

Samp. Info: CS03 09GCSV0429 NQ 100ng/mL,1

Misc. Info: ,3,,,,3,NQ sub,,0,1

Signal 1 UV ~~250-265~~ 265 Signal 2 ~~UV 358-205~~ NA

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	38685	100		386.85			100		0

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

DH 3-12-10

Printed: 3/12/2010 20 32

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000006.d
Lab Smp Id: CS03 09GCSV0429 NQ
Inj Date : 12-MAR-2010 18:29
Operator : DG Inst ID: LC12.i
Smp Info : CS03 09GCSV0429 NQ 100ng/mL;1
Misc Info : ;3;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:32 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 13 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.052	335	80	0.239	0.858	
4.402	38686	5580	0.144	99.142	20 Nitroguanidine
	39021	5660		100.000	

Total unknown % area = 0.8580

Data File: \\Terastation\share\GCdata\LC12_I\03122010B_B\H-000006.d

Page 2

Date : 12-MAR-2010 18:29

Client ID:

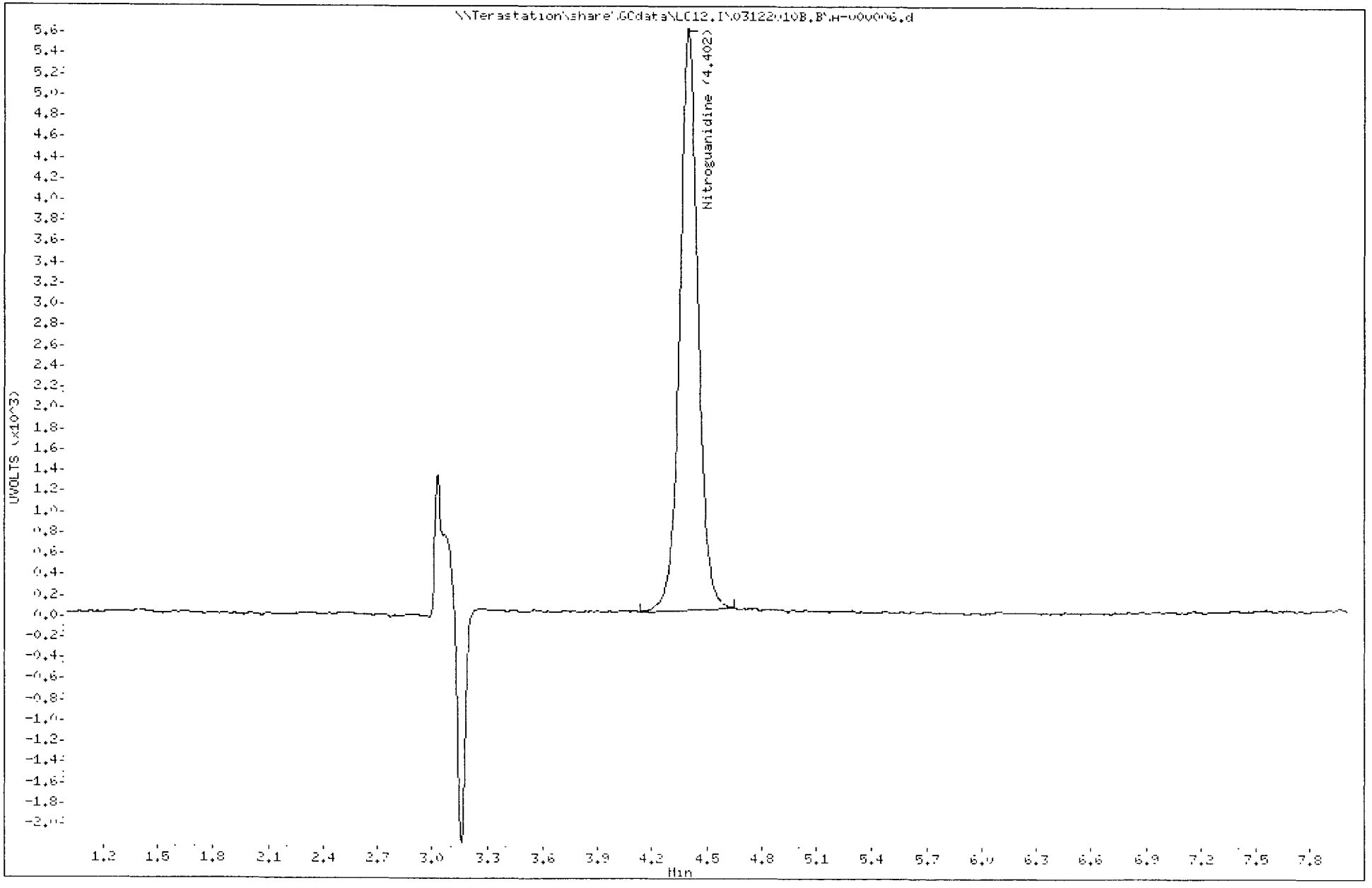
Instrument: LC12_1

Sample Info: CS03 09GCSW0429 MQ 100ng/mL:1

Operator: DG

Column phase: Luna 5u HMIno

Column diameter: 4.60



TestAmerica West Sacramento

A-000007.D

Chromatography Summary

Injection Date: 3/12/2010 18 47 **Operator:** DG

DataFile: LC12 I\03122010B B\A-000007 D **Vial Num:** 14

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CS04 09GCSV0430 NQ 200ng/mL**

Method File: LC12 I\03122010B B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ sub **SpikeList:**

Samp. Info: CS04 09GCSV0430 NQ 200ng/mL,1

Misc. Info: ,4,,,,3,NQ sub,,0,1

Signal 1 UV ~~250-265~~ 263 Signal 2 ~~UV 358-265~~

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	77102	200		385.51			200		0

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- ^ = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Response = 77102 / 200 = 385.51

Printed: 3/12/2010 20.33

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000007.d
Lab Smp Id: CS04 09GCSV0430 NQ
Inj Date : 12-MAR-2010 18:47
Operator : DG Inst ID: LC12.i
Smp Info : CS04 09GCSV0430 NQ 200ng/mL;1
Misc Info : ;4;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:32 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.055	531	87	0.164	0.684	
4.405	77103	11165	0.145	99.316	20 Nitroguanidine
	77634	11252		100.000	

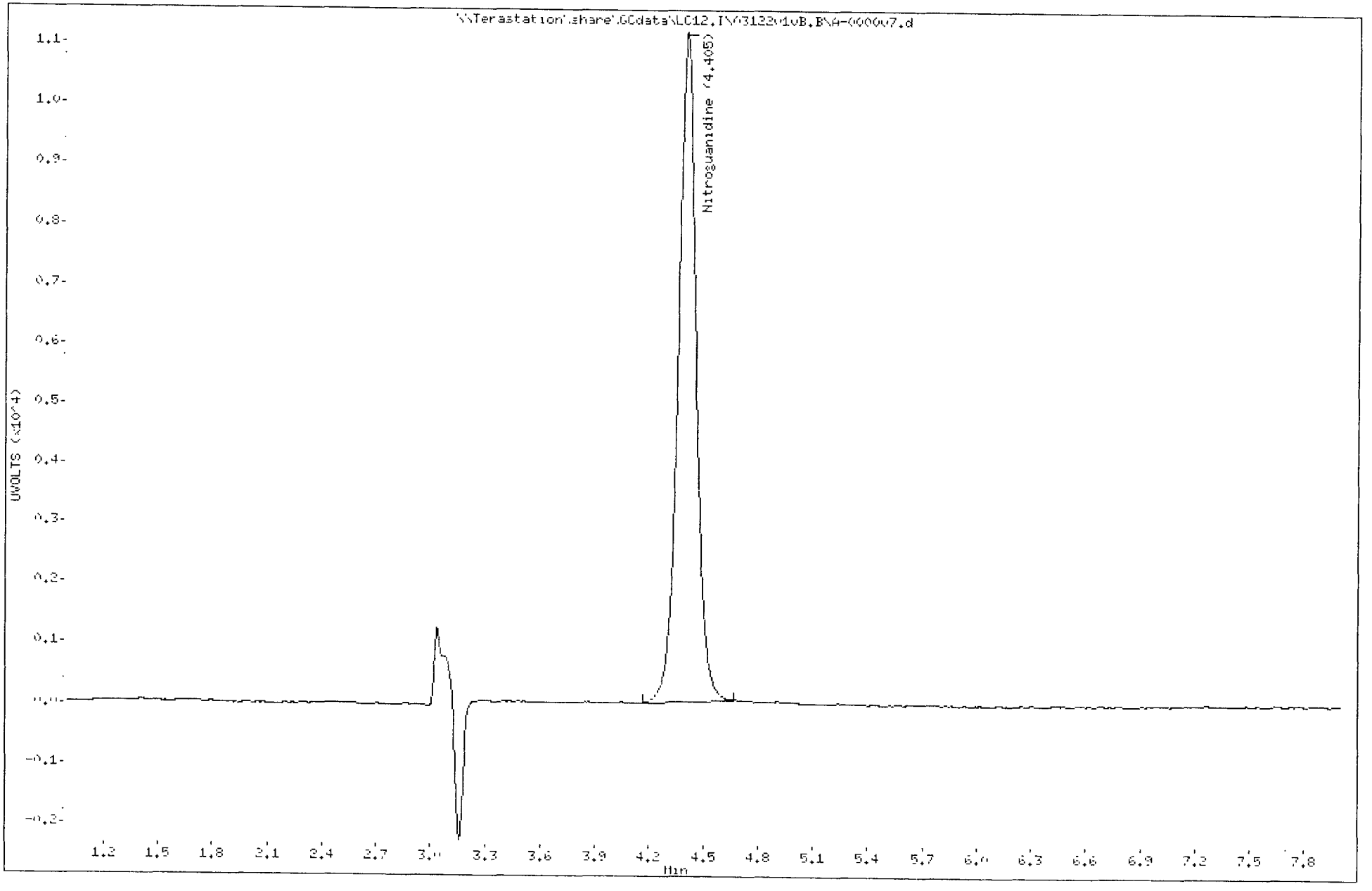
Total unknown % area = 0.6840

Data File: \\Terastation\share\GCdata\LC12_I\03122016B_B\A-000007.d
Date : 12-MAR-2016 18:47
Client ID:
Sample Info: CS#4 (9GCSV0430) NQ 200ng/mL;1

Column phase: Luna 5u Amino

Instrument: LC12_i

Operator: DG
Column diameter: 4.60



TestAmerica West Sacramento

A-000008.D

Chromatography Summary

Injection Date: 3/12/2010 19:04 **Operator:** DG

DataFile: LC12 I\03122010B B\A-000008.D **Vial Num.** 15

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CS05 09GCSV0431 NQ 500ng/mL**

Method File: LC12 I\03122010B B\8330NQAB M

Start Cal Date: 6/30/2009 16:49 **End Cal Date:** 3/12/2010 19:22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
IX	0 mL	0 mL	0 g

Matrix. NONE **SubList:** NQ sub **SpikeList:**

Samp. Info. CS05 09GCSV0431 NQ 500ng/mL,1

Misc. Info: ,5,,,,3;NQ sub,,0,1

Signal 1 UV ~~250,265~~ 263

Signal 2 ~~UV,358,205~~ NA

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	194244	500		388.488			500		0

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

DL 3/12-10

Printed: 3/12/2010 20:33

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000008.d
Lab Smp Id: CS05 09GCSV0431 NQ
Inj Date : 12-MAR-2010 19:04
Operator : DG Inst ID: LC12.i
Smp Info : CS05 09GCSV0431 NQ 500ng/mL;1
Misc Info : ;5;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:33 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.061	170	53	0.312	0.087	
4.405	194245	27999	0.144	99.913	20 Nitroguanidine
	194415	28052		100.000	

Total unknown % area = 0.08700

Data File: \\Terastation\share\GCdata\LC12_1\03122010B_B\A-0008.d

Page 2

Date : 12-MAR-2010 19:04

Client ID:

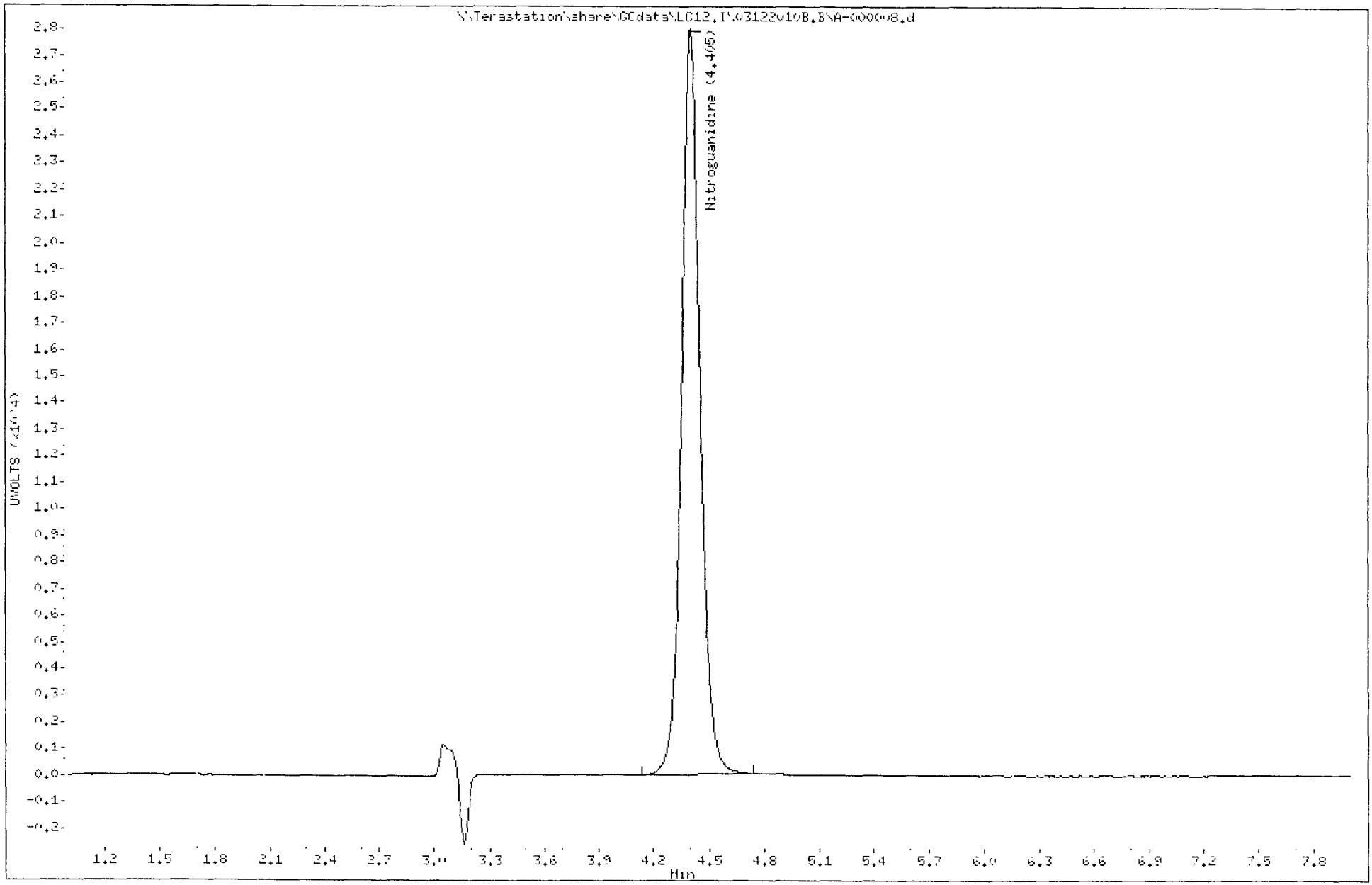
Instrument: LC12_1

Sample Info: CS05 09CSW0431 ND 500ng/mL;1

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000009.D

Chromatography Summary

Injection Date: 3/12/2010 19 22 **Operator** DG

DataFile: LC12 I\03122010B B\A-000009 D **Vial Num:** 16

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **CS06 09GCSV0432 NQ 1000ng/mL**

Method File: LC12 I\03122010B B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ sub **SpikeList:**

Samp Info: CS06 09GCSV0432 NQ 1000ng/mL;1

Misc. Info: .6,,,,3,NQ sub,,0,1

Signal 1 UV ~~250-265~~ 253

Signal 2 ~~UV 358-205~~ N/A

Compound Name	RT	Response	Spike Level	Flag	Response Factor	RT	Response	Spike Level	Flag	Response Factor
Nitroguanidine	4.40	384792	1000		384.792			1000		0

DL 3/12/10

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000009.d
Lab Smp Id: CS06 09GCSV0432 NQ
Inj Date : 12-MAR-2010 19:22
Operator : DG Inst ID: LC12.i
Smp Info : CS06 09GCSV0432 NQ 1000ng/mL;1
Misc Info : ;6;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 20:33 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 16 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.079	325	69	0.212	0.084	
4.402	384792	55614	0.145	99.916	20 Nitroguanidine
	385118	55683		100.000	

Total unknown % area = 0.08400

Data File: \\Terastation\share\GCdata\LC12,I\0312010B,B\A-0000009,d

Page 2

Date : 12-MAR-2010 19:22

Client ID:

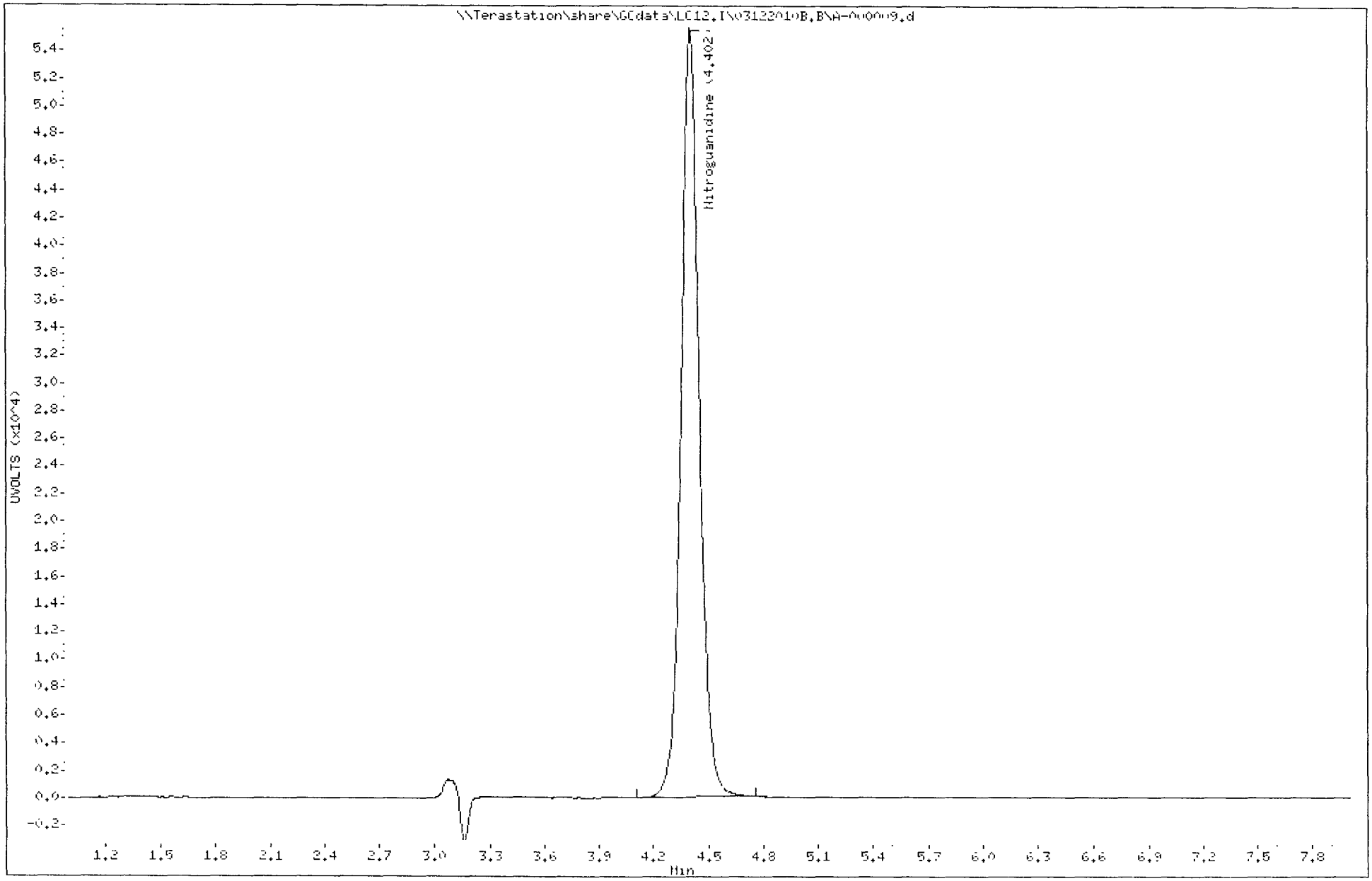
Instrument: LC12,1

Sample Info: CS06 0GCSW0432 ND 100ng/mL:1

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000010.D

Chromatography Summary

Injection Date: 3/12/2010 19 40 **Operator.** DG

DataFile: LC12 I\03122010B.B\A-000010 D **Vial Num:** 1

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample · **Water blank**

Method File: LC12 I\03122010B B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix. NONE **SubList:** NQ sub **SpikeList:**

Samp. Info: Water blank,0

Misc. Info: ,,,,,3,NQ sub,,0,1

Signal 1 UV ~~250-265~~ 2C 3 Signal 2 ~~UV 358 205~~ N/A

Compound Name	RT	Diff	Response	PPB	Flag	RT	Diff	Response	PPB	Flag	MDL	RL	Flag
Nitroguanidine				ND							0 0000	0 00	

det 3 12-10

Notes
M = Manually Integrated
D = Operator Disabled Result
O = Over Calibration Range
< = Primary Value
4 = Columns Differ by More Than 40%
5 = Columns Differ by More Than 50%
Signals Differ by More Than 40%
Signals Differ by More Than 50%

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000010.d
Lab Smp Id: Water blank
Inj Date : 12-MAR-2010 19:40
Operator : DG Inst ID: LC12.i
Smp Info : Water blank;0
Misc Info : ;;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 21:19 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.077	326	61	0.187	100.000	
	326	61		100.000	

Total unknown % area = 100.0

Data File: '\\Terastation\share\GCdata\LC12,I\v3122010B,B\A-000010,d

Page 2

Date : 12-MAR-2010 19:40

Client ID:

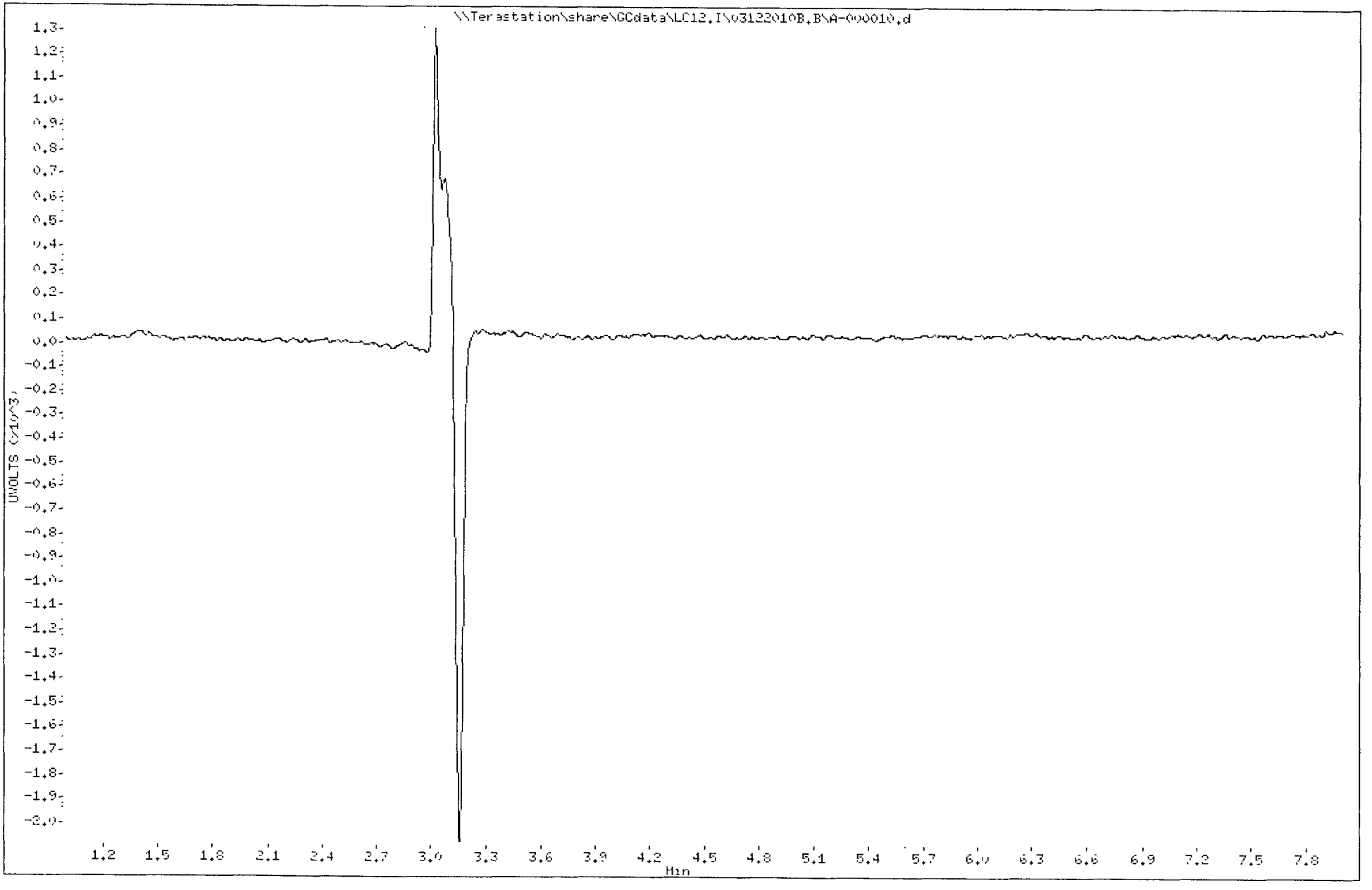
Instrument: LC12,1

Sample Info: Water blank:0

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



TestAmerica West Sacramento

A-000012.D

Chromatography Summary

Injection Date: 3/12/2010 20 16 **Operator:** DG

DataFile: LC12 I\03122010B B\A-000012 D **Vial Num:** 18

Instrument ID: LC12

Method 8330 Target Analyte Results

Sample : **LODV 09GCSV0426 NQ 15ng/mL**

Method File: LC12 I\03122010B B\8330NQAB M

Start Cal Date: 6/30/2009 16 49 **End Cal Date:** 3/12/2010 19 22

Dilution Factor	Extract Volume	Sample Volume	Sample Weight
1X	0 mL	0 mL	0 g

Matrix: NONE **SubList:** NQ sub **SpikeList:**

Samp. Info: LODV 09GCSV0426 NQ 15ng/mL,0

Misc. Info: ,7,,,,3,NQ sub,,0.1

Signal 1 UV ~~250,265~~ 260.3 Signal 2 ~~UV 358,205~~ N/A

Compound Name	RT	Diff	Response	PPB	Flag	RT	Diff	Response	PPB	Flag	MDL	RL	Flag
Nitroguanidine	4.42	0.003	5660	14.4900<							0.0000	0.00	45

-3.4% Dev

Expected value 15ng/mL.

LODV in water

Notes
- M = Manually Integrated
- D = Operator Disabled Result
- O = Over Calibration Range
- < = Primary Value
- 4 = Columns Differ by More Than 40%
- 5 = Columns Differ by More Than 50%
- Signals Differ by More Than 40%
- Signals Differ by More Than 50%

Printed. 3/12/2010 21 25

TestAmerica West Sacramento

Method 8330 Nitroguanidine

Data file : \\Terastation\share\GCdata\LC12.I\03122010B.B\A-000012.d
Lab Smp Id: LODV 09GCSV0426 NQ
Inj Date : 12-MAR-2010 20:16
Operator : DG Inst ID: LC12.i
Smp Info : LODV 09GCSV0426 NQ 15ng/mL;0
Misc Info : ;7;;;;3;NQ.sub;;0;1
Comment : SOP WS-LC-0010
Method : \\Terastation\share\GCdata\LC12.I\03122010B.B\8330NQAB.m
Meth Date : 12-Mar-2010 21:22 galld Quant Type: AREA%
Cal Date : 12-MAR-2010 19:22 Cal File: A-000009.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: NQ.sub
Target Version: 4.14
Processing Host: SACP407D

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
0.066	247	61	0.247	4.187	
4.416	5660	813	0.144	95.813	20 Nitroguanidine
	5908	874		100.000	

Total unknown % area = 4.187

Data File: '\\Terastation\share\GCdata\LC12,I\0312010B,B\A-0000012,d

Page 2

Date : 12-MAR-2010 20:16

Client ID:

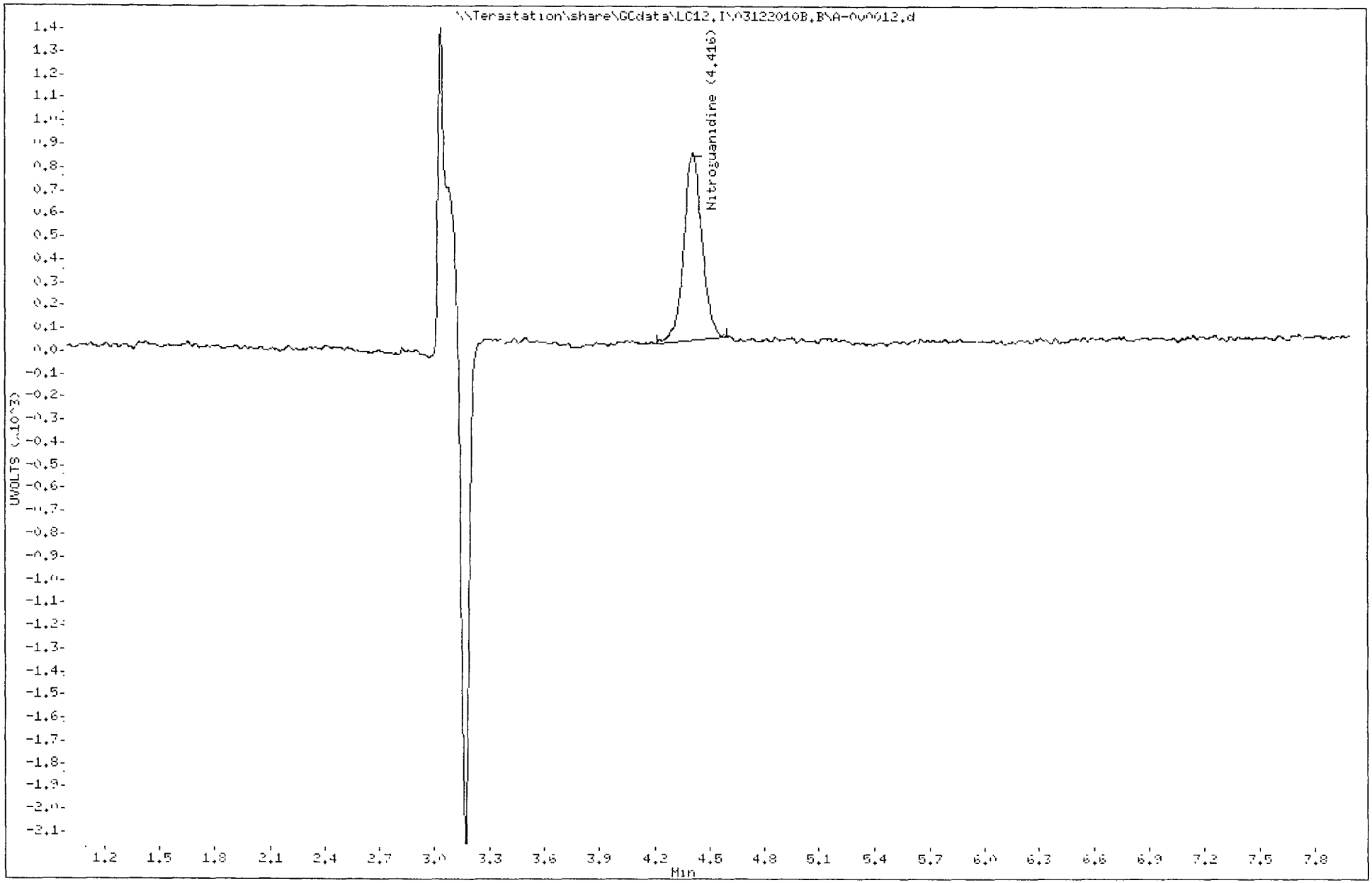
Instrument: LC12,1

Sample Info: LODW 09CCSW0426 ND 15ng/mL:0

Operator: DG

Column phase: Luna 5u Amino

Column diameter: 4.60



Sample Extraction/Preparation Log Copies and Checklists

North Canton

TestAmerica West Sacramento
ESC-Extraction Master Sheet

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Holding Time Due: 3-10-10/3-11-10/3-14-10/3-15-10 Project Due: 3-11-10

BATCH #: OC64232 Initiated By: HD Date: 3-5-10

Test #: NQ-C Extn Comp'd By: HD Date: 3-6-10

QC Code	Lot ID	Sample #	Sample Size / Initial Mass (g)	Final Volume / Final Mass (ml)	Chlorine checked
B	MB		2.00	10	3-5-10
C	LCS		2.00	10	HD
	HCB-[illegible]163	04	2.00	10	
S		4MS	2.04	10	
D		4MSD	2.01	10	
		05	2.03	10	
	↓	18	2.00	10	
	ACB26C454	01	2.01	10	
	↓	02	2.00	10	
		08	2.02	10	
		10	1.99	10	
	↓	16	2.02	10	
	ACCC2C458	11	2.01	10	
	↓	12	1.99	10	
	ACCC30537	01	2.01	10	
			3/6/10 HD		

SOP No.: WS-LL-00C

EXTRACTION COMMENTS:

Multi-incremental Sampling/Date: N/D

Dried/Date 3-2-10/3-4-10 Ground//Date 3-5-10

Sonicated - Start: 3/5/10 - 12:00 End: 06:00 Date: 3/6/10

Cleanup by/Date HD 3/6/10 Dilution by/Date N/D

Final Vialling /Date HD 3/6/10

Millipore Water Dispensed / Date N/D

SPE Cartridge: Waters Lot # N/D

QC Codes	Standard Information				
	Volume	STD ID	Exp. Date	STD Name/Conc.	ppm/ppb
C,S,D	40ml	C9CCSL0425	4-10-10	NQ-Spike 5ug/ml	1.0

Spiked By / Date: HD 3-5-10 Witnessed By / Date: TP 3/5/10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD, FB = Filter Blank

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/06/10
Time: 14:10:55

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 000915 Horacio J. Arauz

Concentrationist: 000915 Horacio J. Arauz

QC BATCH: 0064232

PREP DATE: 3/05/10 11:00
COMP DATE: 3/06/10 13:00

Reviewer/Date: ARAUZH / 3/06/10

Organic Compounds by UV/HPLC
SONICATION - Low Level

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/10/10	3/18/10	A0B250463-004 0064123 **LV3KQ-1-A9**	D	13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/10/10	3/18/10	A0B250463-004 0064123 **LV3KQ-1-CGS**	D	13	V9	SOLID	**2.04g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 NA
COMMENTS:															
3/10/10	3/18/10	A0B250463-004 0064123 **LV3KQ-1-CHD**	D	13	V9	SOLID	**2.01g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 NA
COMMENTS:															
3/10/10	3/18/10	A0B250463-005 0064123 **LV3KR-1-AL**	D	13	V9	SOLID	**2.03g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/10/10	3/18/10	A0B250463-018 0064123 **LV3LJ-1-A8**	D	13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/11/10	3/19/10	A0B260454-001 0064123 **LV41M-1-A9**	D	13	V9	SOLID	**2.01g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/11/10	3/19/10	A0B260454-002 0064123 **LV41R-1-AL**	D	13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/06/10
Time: 14:10:55

QC BATCH: 0064232

PREP DATE: 3/05/10 11:00
COMP DATE: 3/06/10 13:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/11/10	3/19/10	A0B260454-008 **LV42P-1-A9**	0064123 D	13	V9	SOLID	**2.02g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/11/10	3/19/10	A0B260454-010 **LV42W-1-A9**	0064123 D	13	V9	SOLID	**1.99g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/11/10	3/19/10	A0B260454-016 **LV43E-1-A9**	0064123 D	13	V9	SOLID	**2.02g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/15/10	3/23/10	A0C020458-011 **LV7L0-1-A9**	0064123 D	13	V9	SOLID	**2.01g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/15/10	3/23/10	A0C020458-012 **LV7L1-1-A9**	0064123 D	13	V9	SOLID	**1.99g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/16/10	3/11/10	A0C030537-001 **LV891-1-AD**	0064123 DR	13	V9	SOLID	**2.01g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/10/10	0/00/00	G0C050000-232 **LWCKF-1-AAB**		13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	NA
COMMENTS:															
3/10/10	0/00/00	G0C050000-232 **LWCKF-1-ACC**		13	V9	SOLID	**2.00g** 10.00mL	NA	NA	NA	CACL2	10.0		.0	40UL-09GCSV0425 NA
COMMENTS:															

1.3G/L CACL2 3844-009E; .45 FILTER MILLIPORE R9EN05392.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 15

Prep Batch/Test: OQ64232 Test: NQ-S

Prep Date: 3-5-10 Holding Times: 3-10-10 3-11-10 3-14-10 3-15-10 NCM: (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1 Holding times checked? NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match	✓	NA
4 Worksheets have been checked for required spiking compounds	✓	✓
5 Spiking volumes are correctly documented	✓	✓
6 Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7 Expiration dates have been checked	✓	✓
8 Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	✓
B. Weights and Volumes		
1 Recorded weights are in anticipated range	NA	✓
2 Balance upload or raw data for weights is included	NA	✓
3. Weights and volumes have been transcribed correctly to LIMS	NA	✓
4 Weights are not targeted to meet exact weights	NA	✓
5 Each weight or volume measurement is a unique record (no dittos or line downs)	NA	✓
C. Standards and Reagents		
1 Lot numbers for all reagents, including clean up stages, are recorded	NA	✓
2 Are dates and analysis for cleanups recorded?	NA	✓
3 Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	✓
D. Documentation		
1 Are all nonconformances documented appropriately?	NA	✓
2 QuantIMs entry correct, including dates and times	NA	✓
3 Are all fields completed?	NA	✓

Spike witness JP Date 3/5/10

2nd Level Reviewer [illegible] Date 3/8/10

Comments

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TestAmerica West Sacramento

GC/HPLC Data Review Checklist

Lot ID: A0B250463 **Test:** NQ-S **PM:** MJL

Prep Batch(es) 0064232 **Due Date:** 3/18/10 **NCM:** (Y) N

A. Calibration/Instrument Run QC	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV Criteria met.		✓	
3. Multiple-eluters (TPH-D, 8081A, 8082) ICAL/CCVs appropriate and within criteria			✓
4. CCVs every 10 samples/12 hours, all samples bracketed front and back.	✓	✓	
5. PEM frequency and criteria met.			✓
6. Peaks correctly ID'd by data system.	✓	✓	
7. Method Number is identified on data.	✓	✓	
B. QA/QC			
1. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
2. LCS/LCSD and MB data is included.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	✓	✓	
4. MS/MSD data complete.	✓	✓	
5. Holding Times were met.	✓	✓	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	✓	✓	
2. Logbooks/prep sheets properly filled out.	✓	✓	
3. Manual Integrations reviewed and appropriate.	✓	✓	
4. All raw data for samples is included (applies to unused data as well)	✓	✓	
5. All analytes correctly reported.	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	
4. Report sheets included and error-free.	✓	✓	

Analyst: DEBall Date: 3-18-2010

2nd Level Reviewer: MWay Date: 3/18/2010

Comments:

SOLID, 353.2, Nitrocellulose

Nitrocellulose

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Level 1 & 2 Review Checklist
General Chemistry

Lots: AOB160474, AOB180524, AOB190524, AOB250463, AOC020458, ~~AOC030457~~, ~~AO~~ AOC030457, ~~GOB260568~~ JDC 3.11.10

Analysis: Nitrocellulose Date(s): 3.9.10 CLH 3.10.10 AOC030457 JDC 3.11.10 Analyst: CLH

Level 1 Review:	YES	NO	N/A
1. Samples properly preserved/verified			✓
2. Run setup meets std criteria (Curve,ICV,ICB,CCV,etc)	✓		
3. Calibration criteria met (R=0.995, R^2=0.990)	✓		
4. Second source std in control	✓		
5. Batch QC in control (LCS,MB,MS/MSD,DCS-if necessary)	✓		
6. Calculations checked	✓		
7. QAS/QAPP consulted for client specific requirements	✓		
8. Standard tracking #'s recorded on runlog/benchsheet	✓		
9. Manual integration performed, documented & approved			✓
10. Copy of run log included with data package	✓		
11. Copy of conductivity screen logbook (314.0 only)			✓

Level 1 Data Review:			
1. Benchsheet complete	✓		
2. QAS/QAPP consulted for client specific data entry	✓		
3. Copy of prep sheet/checklist submitted	✓		
4. NCM(s) submitted			✓

Completed by and Date: CLH 3.10.10

Level 2 Review:			
1. Level 1 checklist complete & verified	✓		
2. Deviations, NCM(s), holding times checked & approved	✓		
3. Reprep/Reanalysis documented and chemist notified	✓		
4. Client specific criteria met	✓		
5. Data entry checked and released in LIMS	✓		
6. Indication on benchsheet of review (dated and initialed)	✓		
7. Manual integration reviewed, approved (dated and initialed)	✓		✓
8. Copy of run log included with data package	✓		✓
9. Copy of conductivity screen logbook (314.0 only)			

Completed by and Date: JDC 3.11.10

Comments:

RQC050 TestAmerica Laboratories, Inc. Run Date: 3/11/10
WET CHEM BATCHSHEET Time: 15:43:33

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: WA Nitrocellulose as N by 353.2
QC BATCH #: **0067143** INITIALS: DATA ENTRY:
PREP DATE: 3/08/10 7:35 PREP _____ INITIALS _____
COMP DATE: 3/09/10 10:30 ANAL _____ DATE _____
USER: ROGERSJ

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
LVQVM-2-A6	A-0B160474-006	XX I 20 WA 01	Y-D		L12SW-306-5001-SW
LVQVP-2-AH	A-0B160474-007	XX I 20 WA 01	Y-D		L12SW-307-5003-SW
LVQVQ-2-AH	A-0B160474-008	XX I 20 WA 01	Y-D		L12SW-307-6033-FD
LVQVT-2-AW	A-0B160474-009	XX I 20 WA 01	Y-D		L12SW-308-5005-SW
LVQVT-1-EM	A-0B160474-009-D	XX I 20 WA 01	Y-D		L12SW-308-5005-SW
LVQVT-1-EL	A-0B160474-009-S	XX I 20 WA 01	Y-D		L12SW-308-5005-SW
LVQVV-2-AU	A-0B160474-010	XX I 20 WA 01	Y-D		L12SW-309-5007-SW
LVVFW-2-A6	A-0B180524-002	XX I 20 WA 01	Y-D		FWSSW-102-5010-SW
LVVF7-2-A6	A-0B180524-006	XX I 20 WA 01	Y-D		LL6SW-082-5244-SW
LVWXL-2-A6	A-0B190524-005	XX I 20 WA 01	Y-D		LL9SW-111-5489-SW
LVWXW-2-A6	A-0B190524-007	XX I 20 WA 01	Y-D		PBA08-QC-6000-FB
LVWXX-2-AH	A-0B190524-008	XX I 20 WA 01	Y-D		PBA08-QC-6001-ER
LVWX3-2-A6	A-0B190524-011	XX I 20 WA 01	Y-D		FWSSW-103-5012-SW
LWD39-1-AA	G-0C080000-143-B	XX I 20 WA 01			INTRA-LAB BLANK
LWD39-1-AC	G-0C080000-143-C	XX I 20 WA 01			INTRA-LAB CHECK

Control Limits

(26-144)

(26-144)

North Canton

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0067143**

Date 3/10/2010
Time 11:54:03

Method Code: **WA Nitrocellulose as N by 353.2**
Analyst: **Chris Hebert**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
LVQVM-2-A6	ND	mg/L	0.50	03/08-03/09/10	.00	N		ND	0.50	1.00
LVQVP-2-AH	.15	mg/L	0.50	03/08-03/09/10	.00	N		0.15 B	0.50	1.00
LVQVQ-2-AH	ND	mg/L	0.50	03/08-03/09/10	.00	N		ND	0.50	1.00
LVQVT-2-AW	ND	mg/L	0.50	03/08-03/09/10	.00	N		ND	0.50	1.00
LVQVV-2-AU	ND	mg/L	0.50	03/08-03/09/10	.00	N		ND	0.50	1.00
LVVFW-2-A6	ND	mg/L	0.50	03/08-03/09/10	.00	N		ND	0.50	1.00
LVVF7-2-A6	.24	mg/L	0.50	03/08-03/09/10	.00	N		0.24 B	0.50	1.00
LVWXL-2-A6	ND	mg/L	0.50	03/08-03/09/10	.00	N		ND	0.50	1.00
LVWXW-2-A6	ND	mg/L	0.50	03/08-03/09/10	.00	N		ND	0.50	1.00
LVWXX-2-AH	ND	mg/L	0.50	03/08-03/09/10	.00	N		ND	0.50	1.00
LVWX3-2-A6	ND	mg/L	0.50	03/08-03/09/10	.00	N		ND	0.50	1.00
LWD39-1-AA	ND	mg/L	0.50	03/08-03/09/10	.00			ND	0.50	1.00

Notes:
B Estimated result. Result is less than RL.

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
LWD39-1-AC		2.036	.86	42.23	03/08-03/09/10	(26-144)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil.
LVQVT-1-EL		ND	2.036	1.58	1.94	77.60	95.28	20.45	03/08-03/09/10	1.00

Notes:

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

2588

RQC050 TestAmerica Laboratories, Inc. Run Date: 3/11/10
WET CHEM BATCHSHEET Time: 15:43:39

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: WA Nitrocellulose as N by 353.2
QC BATCH #: **0063289** INITIALS: DATA ENTRY:
PREP DATE: 3/04/10 13:45 PREP _____ INITIALS _____
COMP DATE: 3/08/10 9:35 ANAL _____ DATE _____
USER: ROGERSJ

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
LV3KQ-1-CA	A-0B250463-004	XX A 76 WA 01	Y-D	_____	ATASB-008-5133-SO
LV3KQ-1-CF	A-0B250463-004-D	XX A 76 WA 01	Y-D	_____	ATASB-008-5133-SO
LV3KQ-1-CE	A-0B250463-004-S	XX A 76 WA 01	Y-D	_____	ATASB-008-5133-SO
LV3KR-1-CA	A-0B250463-005	XX A 76 WA 01	Y-D	_____	ATASB-008-5134-SO
LV3LJ-1-A9	A-0B250463-018	XX A 76 WA 01	Y-D	_____	F16SS-026M-5431-SO
LV7L0-1-CA	A-0C020458-011	XX A 76 WA 01	Y-D	_____	LL8SD-091-5379-SD
LV7L1-1-CA	A-0C020458-012	XX A 76 WA 01	Y-D	_____	LL8SD-091-6113-FD
LV891-1-AE	A-0C030537-001	XX A 76 WA 01	Y-D	_____	F15SB-031-5407-SO
LWAMN-1-AA	G-0C040000-289-B	XX A 76 WA 01		_____	INTRA-LAB BLANK
LWAMN-1-AC	G-0C040000-289-C	XX A 76 WA 01		_____	INTRA-LAB CHECK

Control Limits

(34-115)

(34-115)

(34-115)

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0063289**

Date 3/10/2010
Time 12:01:43

Method Code:**WA Nitrocellulose as N by 353.2**
Analyst:**Chris Hebert**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
LV3KQ-1-CA	.86	mg/kg	5.0	03/04-03/09/10	88.58	N		0.97 B	5.6	1.00
LV3KR-1-CA	ND	mg/kg	5	03/04-03/09/10	95.17	N		ND	5.3	1.00
LV3LJ-1-A9	1.12	mg/kg	5.0	03/04-03/09/10	98.03	N		1.1 B	5.1	1.00
LV7L0-1-CA	ND	mg/kg	5.0	03/04-03/09/10	72.43	N		ND	6.9	1.00
LV7L1-1-CA	ND	mg/kg	5.0	03/04-03/09/10	69.96	N		ND	7.1	1.00
LV891-1-AE	ND	mg/kg	5.0	03/04-03/09/10	84.75	N		ND	5.9	1.00
LWAMN-1-AA	ND	mg/kg	5.0	03/04-03/09/10	.00			ND	5.0	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.
B Estimated result. Result is less than RL.

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
LWAMN-1-AC		50.9	32.9	64.63	03/04-03/09/10	(34-115)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil.
LV3KQ-1-CE		.86	50.7477	24.9	38.1	47.37	73.16	41.90	03/04-03/09/10	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

North Canton

TestAmerica **West Sacramento**

NITROCELLULOSE

(SOP # WS-WC-0050, Rev 3 0)

ANALYST CLH DATE 03/09/10 17:09 METHOD NO. 353.2 FILE 030910A

CHECKED BY JOK DATE 3.11.10 PROJECT NO.

BATCH NO. 0067143 0063289 INST - FS4 SOLIDS MDL - 0.78 mg/kg RL - 5.0 mg/kg

AQUEOUS MDL - 0.12 mg/L RL - 0.5 mg/L

	Lab ID	Time	Standard Conc. mg/L	Cup #	Sample Aliquot gram	Sample Aliquot mL	Extract Volume mL	Dilution	Height	$NO_3 + NO_2$ Raw Result	Nitrocellulose			
											Slope = 1.2018E+05			
											Intercept = -4.6121E+02			
											Correlation = 0.999913			
											%Nitrocellulose Assay = 0.118			
1	Cal 0	15:20	0	0					-128	0.003000	mg/L	ug/g	Recovery	Check
2	Cal 1	15:22	0.05	102					4696	0.043000				
3	Cal 2	15:24	0.2	103					23790	0.202000				
4	Cal 3	15:26	0.4	104					46619	0.392000				
5	Cal 4	15:28	1	105					121917	1.018000				
6	Cal 5	15:30	2	106					239003	1.993000				
7	Blank	15:32		0				1	166	0.005000				
8	ICV	15:34		107				1	119512	0.998000				
9	MRL 0.05PPM	15:36	0.05	102				1	5512	0.050000			99.4%	
10	NO2 1PPM	15:38	1	108				1	119139	0.995000			99.5%	
11	NO3 1PPM	15:40	1	109				1	118676	0.991000			99.1%	
12	Blank	15:42		0				1	143	0.005000				
13	Baseline	15:44		0				1	0	0.004000				
14	MB 0067143	15:46		201		100	40	1	2993	0.029000	0.097			
15	LCS 0067143	15:48	2.036	202		100	40	1	29955	0.253000	0.86		42.2%	
16	A0B160474-6	15:50		203		100	40	1	3065	0.029000	0.099			
17	A0B160474-7	15:52		204		100	40	1	4742	0.043000	0.15			
18	A0B160474-8	15:54		205		100	40	1	3140	0.030000	0.1			
19	A0B160474-9	15:56		206		100	40	1	2614	0.026000	0.087			
20	A0B160474-9S	15:58	2.036	207		100	40	1	55554	0.466000	1.58		~~77.6%~~	77.6% CLH
21	A0B160474-9D	16:00	2.036	208		100	40	1	68321	0.572000	1.94		~~95.3%~~	95.2% 3.10.10
22	A0B160474-10	16:02		209		100	40	1	2903	0.028000	0.095			
23	A0B180524-2	16:04		210		100	40	1	3640	0.034000	0.12			
24	MRL 0.05PPM	16:06	0.05	102				1	4735	0.043000			86.5%	
25	CCV Cal 4	16:08	1	105				1	120909	1.010000			101.0%	
26	Blank	16:10		0				1	87	0.005000				
27	Baseline	16:12		0				1	0	0.004000				
28	A0B180524-6	16:14		211		100	40	1	7886	0.069000	0.24			
29	A0B190524-5	16:16		212		100	40	1	3609	0.034000	0.11			
30	A0B190524-7	16:18		213		100	40	1	3283	0.031000	0.11			
31	A0B190524-8	16:20		214		100	40	1	3094	0.030000	0.1			
32	A0B190524-11	16:22		215		100	40	1	2850	0.028000	0.093			
33	MB 0063289	16:24		216	10		40	1	1546	0.017000		0.57		
34	LCS 0063289	16:26	50.9	217	10		40	1	116099	0.970000		32.90	64.6%	
35	A0B250463-4	16:28		218	10.02		40	1	2608	0.026000		0.86		
36	A0B250463-4S	16:30	50.7477	219	10.03		40	1	88256	0.738000		24.90	~~49.1%~~	47.3% CLH 3.10.10

Nitrocellulose = (NO3 + NO2) * Prep Factor / 0.111

Nitrocelluose Ver 11-30-00

10-23-2009 ERS

NITROCELLULOSE

(SOP # WS-WC-0050, Rev 3 0)

ANALYST CLH
CHECKED BY
BATCH NO. 0067143 0063289

DATE 03/09/10 17:09
DATE 3/11/10
INST - FS4

METHOD NO. 353.2
PROJECT NO.
SOLIDS MDL - 0.78 mg/kg RL - 5.0 mg/kg
AQUEOUS MDL - 0.12 mg/L RL - 0.5 mg/L

FILE 030910A

	Lab ID	Time	Standard Conc mg/L	Cup #	Sample Aliquot gram	Sample Aliquot mL	Extract Volume mL	Dilution	Height	$NO_3 + NO_2$ Raw Result	Nitrocellulose				
37	A0B250463-4D	16:32	50.9	220	10		40	1	134761	1.125000		38.10	~~74.9%~~	93.16%	CLH 3.10.10
38	MRL 0.05PPM	16:34	0.05	102				1	5329	0.048000			96.4%		
39	CCV Cal 4	16:36	1	105				1	121948	1.019000			101.9%		
40	Blank	16:38		0				1	41	0.004000					
41	Baseline	16:40		0				1	0	0.004000					
42	A0B250463-5	16:42		221	10.03		40	1	1575	0.017000		0.57			
43	A0B250463-18	16:44		222	10		40	1	3515	0.033000		1.12			
44	A0C020458-11	16:46		223	10		40	1	1762	0.018000		0.63			
45	A0C020458-12	16:48		224	10.07		40	1	2130	0.022000		0.73			
46	A0C030537-1	16:50		225	10.05		40	1	1550	0.017000		0.56			
47	G0B260568-8	16:52		226				1	319646	2.664000					
48	G0B260568-8S	16:54		227				1	426013	3.549000					
49	G0B260568-8D	16:56		228				1	423143	3.525000					
50	MRL 0.05PPM	16:58	0.05	102				1	5747	0.052000			103.3%		
51	CCV Cal 4	17:00	1	105				1	121665	1.016000			101.6%		
52	Blank	17:02		0				1	87	0.005000					
53	Baseline	17:04		0				1	0	0.004000					

Nitrocellulose = (NO3 + NO2) * Prep Factor / 0.111

Nitrocelluose Ver 11-30-00
10-23-2009 ERS

TestAmerica
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General Chemistry Standards and Reagent Usage Log

Test: Nitrate+Nitrite Analysis
Method: EPA 353.2

SOP ID: ~~SAC-WC-0036 (Nitrate+Nitrite)~~
WS-WC-0050 (Nitrocellulose)

Batch ID: 0067143, 0063289
File ID: 030910A

Instrument ID: FS4 Alpkem

Standards

Source Standards	Tracking ID	Exp Date
Calibration		
NO3 (1000 mg/L, as N)	3745-WC-2-7	6-9-10
NO2 (1000 mg/L, as N)	3745-WC-2-2	6-9-10
Reference		
NO3 (1000 mg/L, as N)	3745-WC-29-1	10-12-10
NO2 (1000 mg/L, as N)	3745-WC-29-10	9-30-10

Monthly Intermediate Calibration Standard

	Conc (mg/L, as N)	Tracking ID	Exp Date
NO3+NO2	100	3872-WC-5-1	3-10-10

Monthly Working Standards

	Conc (mg/L, as N)	Tracking ID	Exp Date
S1	0.05	3872-WC-5-2	3-10-10
S2	0.2	3872-WC-5-3	
S3	0.4	3872-WC-5-4	
S4	1	3872-WC-5-5	
S5	2	3872-WC-5-6	
ICV	1	3872-WC-5-7	
NO2	1	3872-WC-5-8	
NO3	1	3872-WC-5-9	

Reagents

Reagent	Tracking ID	Exp Date
Color Reagent	3755-WC-21-5	4-25-10
Buffer	3755-WC-26-4	3-1-11

All tracking numbers and expiration dates were checked as accurate prior to reagent or standard use:

Chemist: CLH Date: 3-9-10

Peak Table:Nitrate/Nitrite

File name: V:\GENCH~%3\ALPKE~_-\2010\NITRO~K%\030910A.RST
Date: 09-Mar-10
Operator: CLH

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	105	Sync	1	SYNC	1	1	120289	1.004731	
2	0	Carryover	1	CO	1	1	15	0.003965	
B	0	Baseline	1	RB	1	1	0	0.003837	BL
4	0	Cal 0	1	C	1	1	-128	0.002769	
5	102	Cal 1	1	C	1	1	4696	0.042915	
6	103	Cal 2	1	C	1	1	23790	0.201785	
7	104	Cal 3	1	C	1	1	46619	0.391744	
8	105	Cal 4	1	C	1	1	121917	1.018272	
9	106	Cal 5	1	C	1	1	239003	1.992514	
10	0	Blank	1	BLNK	1	1	166	0.005221	
11	107	ICV	1	U	1	1	119512	0.998260	
12	102	MRL 0.05PPM	1	U	1	1	5512	0.049704	
13	108	NO2 1PPM	1	U	1	1	119139	0.995161	
14	109	NO3 1PPM	1	U	1	1	118676	0.991307	
15	0	Blank	1	BLNK	1	1	143	0.005023	
B	0	Baseline	1	RB	1	1	0	0.003837	BL
17	201	MB 0067143	1	U	1	1	2993	0.028742	
18	202	LCS 0067143	1	U	1	1	29955	0.253085	
19	203	A0B160474-6	1	U	1	1	3065	0.029339	
20	204	A0B160474-7	1	U	1	1	4742	0.043297	
21	205	A0B160474-8	1	U	1	1	3140	0.029961	
22	206	A0B160474-9	1	U	1	1	2614	0.025585	
23	207	A0B160474-9S	1	U	1	1	55554	0.466085	
24	208	A0B160474-9D	1	U	1	1	68321	0.572321	
25	209	A0B160474-10	1	U	1	1	2903	0.027989	
26	210	A0B180524-2	1	U	1	1	3640	0.034128	
27	102	MRL 0.05PPM	1	U	1	1	4735	0.043235	
28	105	CCV Cal 4	1	CCV	1	1	120909	1.009889	
29	0	Blank	1	BLNK	1	1	87	0.004559	
B	0	Baseline	1	RB	1	1	0	0.003837	BL
31	211	A0B180524-6	1	U	1	1	7886	0.069455	
32	212	A0B190524-5	1	U	1	1	3609	0.033868	
33	213	A0B190524-7	1	U	1	1	3283	0.031155	
34	214	A0B190524-8	1	U	1	1	3094	0.029579	
35	215	A0B190524-11	1	U	1	1	2850	0.027552	
36	216	MB 0063289	1	U	1	1	1546	0.016705	
37	217	LCS 0063289	1	U	1	1	116099	0.969866	
38	218	A0B250463-4	1	U	1	1	2608	0.025541	
39	219	A0B250463-4S	1	U	1	1	88256	0.738195	
40	220	A0B250463-4D	1	U	1	1	134761	1.125148	
41	102	MRL 0.05PPM	1	U	1	1	5329	0.048180	
42	105	CCV Cal 4	1	CCV	1	1	121948	1.018534	
43	0	Blank	1	BLNK	1	1	41	0.004176	
B	0	Baseline	1	RB	1	1	0	0.003837	BL
45	221	A0B250463-5	1	U	1	1	1575	0.016944	
46	222	A0B250463-18	1	U	1	1	3515	0.033083	
47	223	A0C020458-11	1	U	1	1	1762	0.018496	
48	224	A0C020458-12	1	U	1	1	2130	0.021559	
49	225	A0C030537-1	1	U	1	1	1550	0.016738	
50	226	G0B260568-8	1	U	1	1	319646	2.663524	HI
51	227	G0B260568-8S	1	U	1	1	426013	3.548577	HI
52	228	G0B260568-8D	1	U	1	1	423143	3.524693	HI
53	102	MRL 0.05PPM	1	U	1	1	5747	0.051654	FL
54	105	CCV Cal 4	1	CCV	1	1	121665	1.016175	
55	0	Blank	1	BLNK	1	1	87	0.004562	
B	0	Baseline	1	RB	1	1	0	0.003837	BL

Nitrate/Nitrite:Calibration 1: Peak 4-56

File name: V:\GENCH~%3\ALPKE~_-\2010\NITRO~K%\030910A.RST
Date: 09-Mar-10
Operator: CLH

*	Name	Conc	Height
*	Cal 0	0.000000	-128.334869
*	Cal 1	0.050000	4696.453125
*	Cal 2	0.200000	23789.775391
*	Cal 3	0.400000	46619.394531
*	Cal 4	1.000000	121916.664062
*	Cal 5	2.000000	239002.875000

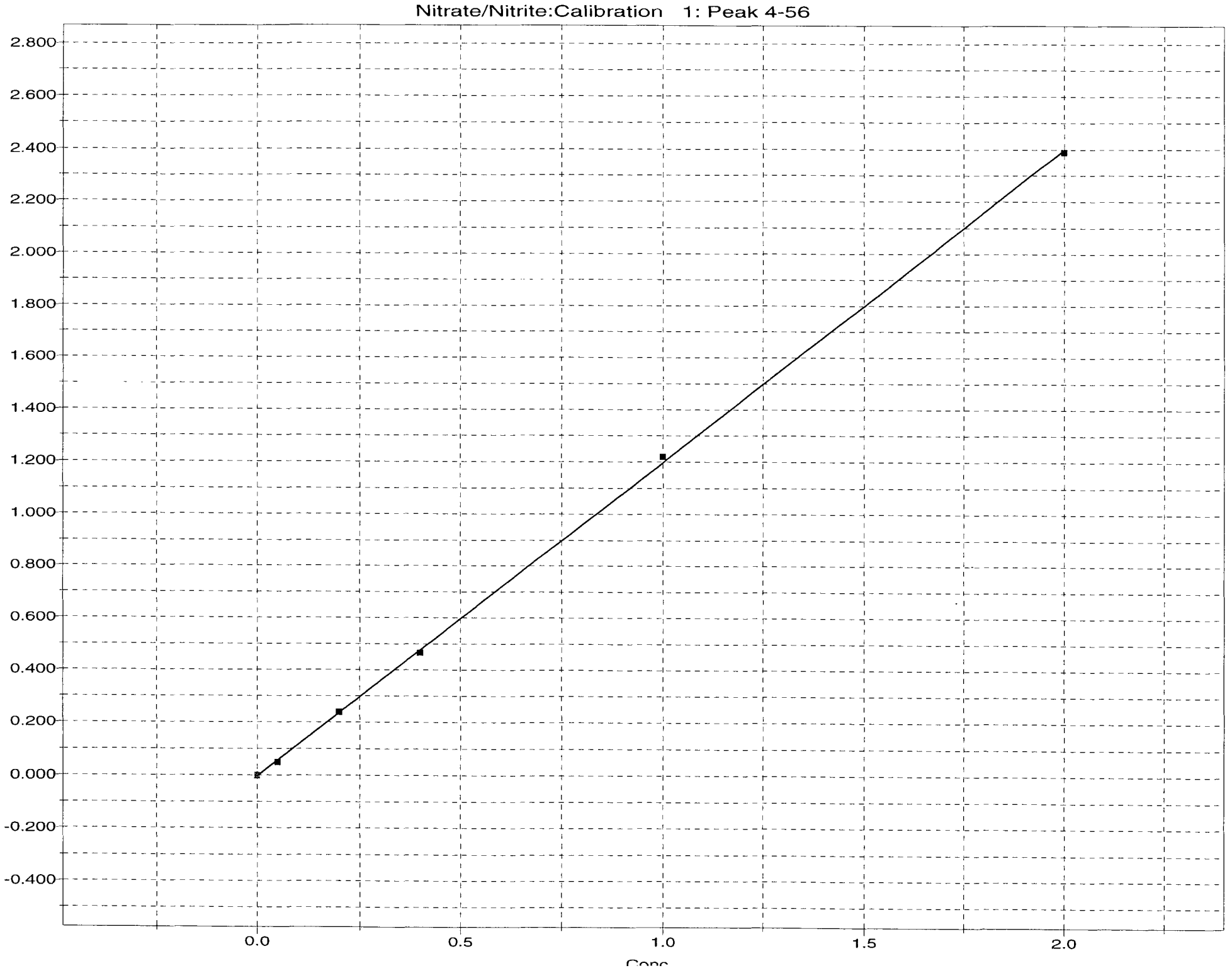
Calib Coef:
y=bx+a
a: (intercept) -4.6117e+02
b: 1.2018e+05

Corr Coef: 0.999913

Carryover: 0.0128%

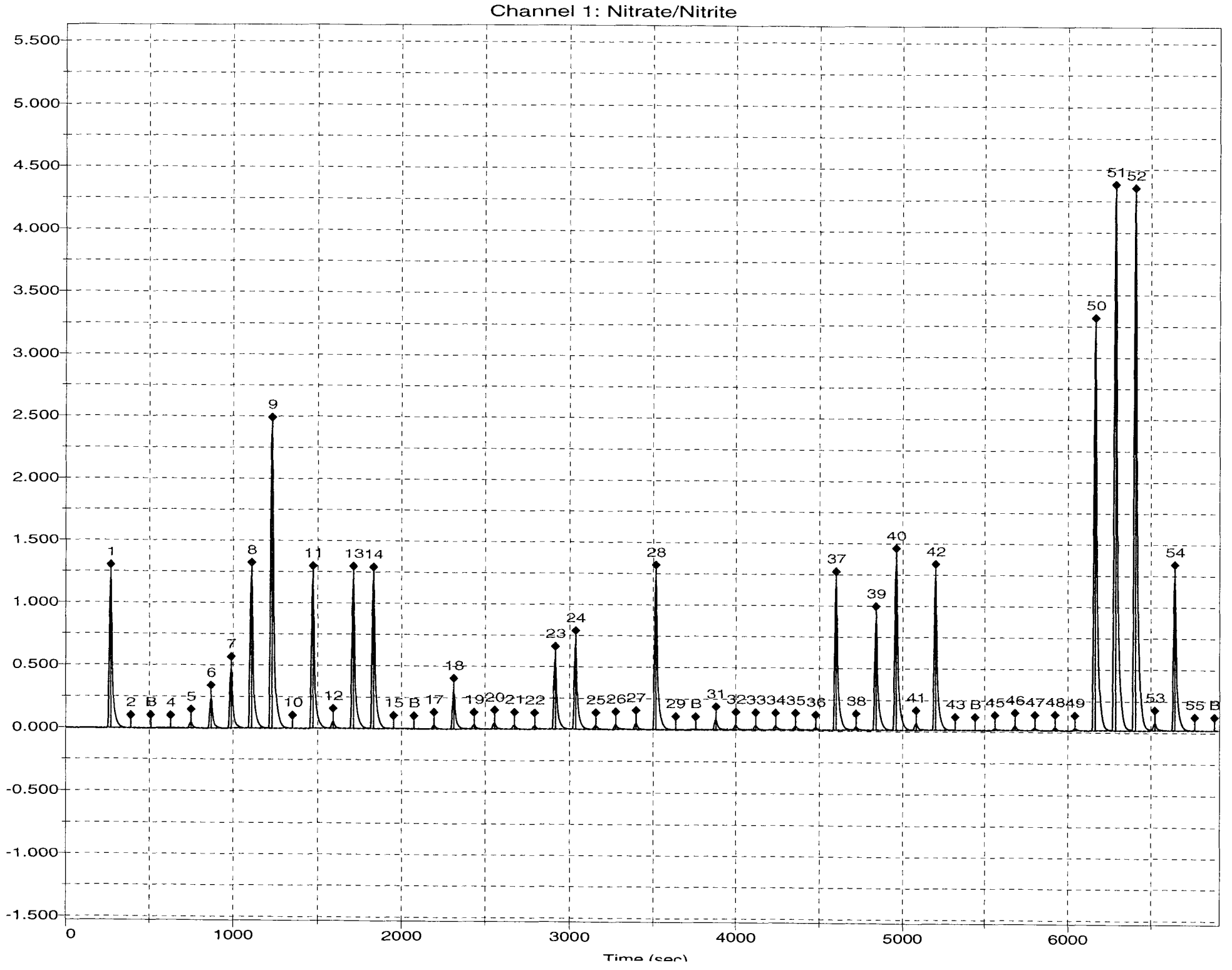
No Drift Peaks

North Canton



2596

North Canton



2597

North Canton

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento
Nitrocellulose Extraction Sheet

Holding Time Due: 3-24-10 / 3-29-10 / 3-30-10
Project Due: 3-11-10
Analysis Date: 3.9.10
BATCH #: 0063289
Initiated By: MA
Date: 3-4-10
MATRIX: (SOLID) AQ / OTHER: _____
Hydrolyzed By: MA
Date/Time: 3-8-10 / started: 8:15 Finished: 9:35

QC Code	Lot #	Sample #	Sample Size (g or mL)	Final Volume (mL)	pH Adjusted to 6-8
B	MB		10.00	40	(Y) / N
C	LCS		10.00	40	(Y) / N
	A0B250463	04	10.02	40	(Y) / N
S		4MS	10.03	40	(Y) / N
D		4MSD	10.00	40	(Y) / N
	↓	05	10.03	40	(Y) / N
	↓	18	10.00	40	(Y) / N
	A0C020458	11	10.00	40	(Y) / N
	↓	12	10.07	40	(Y) / N
	A0C030537	01	10.05	40	(Y) / N
					Y / N
					Y / N
	3-8-10 MA				Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N

SOP No.: WS-WC-0050

EXTRACTION COMMENTS:

QC Codes	Standard Information			
	Volume	STD ID	Conc'n (µg/mL)	Exp. Date
CCID	1.0 ml	EC91016A	509	4-16-10

Spiked By: HD 3/4/10 Witnessed By: WS 3/4/10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD.

2598

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/08/10
Time: 10:38:51

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 000915 Horacio J. Arauz

Concentrationist: 000915 Horacio J. Arauz

Reviewer/Date: ARAUZH / 3/05/10

QC BATCH: 0063289

PREP DATE: 3/04/10 13:45
COMP DATE: 3/08/10 9:35

Nitrocellulose as N by 353.2
EXTRACTION, SOLID/SOLVENT (Manual)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/22/10	3/18/10	A0B250463-004 0063173 **LV3KQ-1-CA**	D	76	WA	SOLID	**10.02g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/22/10	3/18/10	A0B250463-004 0063173 **LV3KQ-1-CBS**	D	76	WA	SOLID	**10.03g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	1.0ML-E091016A NA
COMMENTS:															
3/22/10	3/18/10	A0B250463-004 0063173 **LV3KQ-1-CFD**	D	76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	1.0ML-E091016A NA
COMMENTS:															
3/22/10	3/18/10	A0B250463-005 0063173 **LV3KR-1-CA**	D	76	WA	SOLID	**10.03g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/22/10	3/18/10	A0B250463-018 0063173 **LV3LJ-1-A9**	D	76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/27/10	3/23/10	A0C020458-011 0063173 **LV7L0-1-CA**	D	76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/27/10	3/23/10	A0C020458-012 0063173 **LV7L1-1-CA**	D	76	WA	SOLID	**10.07g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/08/10
Time: 10:38:51

QC BATCH: 0063289

PREP DATE: 3/04/10 13:45
COMP DATE: 3/08/10 9:35

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/28/10	3/11/10	A0C030537-001 0063173 **LV891-1-AE**	DR	76	WA	SOLID	**10.05g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/22/10	0/00/00	G0C040000-289 **LWAMN-1-AA**B		76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	NA
COMMENTS:															
3/22/10	0/00/00	G0C040000-289 **LWAMN-1-ACC**		76	WA	SOLID	**10.00g** 40.00mL	NA	NA	NA	MEOH/H2O	40.0	ACETONE	45.0	1.0ML-E091016A NA
COMMENTS:															

MEOH/H2O 3844-005C, J.T.BAKER ACETONE H29E40; 50ML CENTRIFUGE TUBE MG-SCIENTIF 9190362; SODIUM HYDROXIDE (1N) RICCA 1808597; SULFURIC ACID (2N) RICCA 1904287 .45 FILTER MILLIPORE R9EN05392, MILLIPORE WATER DISPENSED 3-8-10

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 10

North Canton

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento
Nitrocellulose Extraction Sheet

Holding Time Due: 3-17-10 / 3-15-10 / 3-15-10
BATCH #: 0067143
MATRIX: SOLID / (AQ) / OTHER: _____

Project Due: 3-9-10
Initiated By: MD
Hydrolyzed By: MD

Analysis Date: _____
Date: ~~3-16-10~~ MD 3/8/10 3/8/10
Date/Time: 3-9-10 / started 09:00 - finished 10:15

QC Code	Lot #	Sample #	Sample Size (g or (mL))	Final Volume (mL)	pH Adjusted to 6-8
B	MB		100	40	(Y) / N
C	LCS		100	40	(Y) / N
	AOB160474	06	100	40	(Y) / N
	↓	07	100	40	(Y) / N
		08	100	40	(Y) / N
		09	100	40	(Y) / N
S		9MS	100	40	(Y) / N
D		9MSD	100	40	(Y) / N
	▽	10	100	40	(Y) / N
	AOB180524	02	100	40	(Y) / N
	↓	04	100	40	(Y) / N
	AOB190524	05	100	40	(Y) / N
	↓	07	100	40	(Y) / N
		08	100	40	(Y) / N
	▽	11	100	40	(Y) / N
					Y / N
					Y / N
	3-9-10 MD				Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N
					Y / N

SOP No.: WS-WC-0050

EXTRACTION COMMENTS:

*millipore water dispensed 3/8/10

*whatman nuclepore membrane # 66EN035

QC Codes	Standard Information			
	Volume	STD ID	Conc'n (µg/mL)	Exp. Date
C,S,D	400 µL	EC91016A	500	4-16-10

Spiked By: MD 3/8/10 Witnessed By: TP 3/8/10

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/09/10
Time: 11:30:52

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 000915 Horacio J. Arauz

Concentrationist: 000915 Horacio J. Arauz

Reviewer/Date: ARAUZH / 3/08/10

QC BATCH: 0067143

PREP DATE: 3/08/10 7:35
COMP DATE: 3/09/10 10:30

Nitrocellulose as N by 353.2
EXTRACTION, SOLID PHASE

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
3/13/10	3/09/10	A0B160474-006 0067075 **LVQVM-2-A6**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/13/10	3/09/10	A0B160474-007 0067075 **LVQVP-2-AH**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/13/10	3/09/10	A0B160474-008 0067075 **LVQVQ-2-AH**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/13/10	3/09/10	A0B160474-009 0067075 **LVQVT-1-ELS**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	400UL-E091016A NA
COMMENTS:															
3/13/10	3/09/10	A0B160474-009 0067075 **LVQVT-1-EMD**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	400UL-E091016A NA
COMMENTS:															
3/13/10	3/09/10	A0B160474-009 0067075 **LVQVT-2-AW**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/13/10	3/09/10	A0B160474-010 0067075 **LVQVV-2-AU**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/09/10
Time: 11:30:52

QC BATCH: 0067143

PREP DATE: 3/08/10 7:35
COMP DATE: 3/09/10 10:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/15/10	3/11/10	A0B180524-002 0067075 **LVVFW-2-A6**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/15/10	3/11/10	A0B180524-006 0067075 **LVVF7-2-A6**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/16/10	3/12/10	A0B190524-005 0067075 **LVWXL-2-A6**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/16/10	3/12/10	A0B190524-007 0067075 **LVWXW-2-A6**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/16/10	3/12/10	A0B190524-008 0067075 **LVWXX-2-AH**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/16/10	3/12/10	A0B190524-011 0067075 **LVWX3-2-A6**	D	20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/13/10	0/00/00	G0C080000-143 **LWD39-1-AAB**		20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	NA
COMMENTS:															
3/13/10	0/00/00	G0C080000-143 **LWD39-1-ACC**		20	WA	WATER	**100mL** 40.00mL	NA	NA	NA	ACETONE	50.0	HO2	40.0	400UL-E091016A NA
COMMENTS:															

J.T.BAKER ACETONE H29E40; SNAP CAP MG-SCIENTIFIC 081214; 50ML CENTRIFUGE TUBE MG-9190362; SODIUM HYDROXIDE (1N) RICCA 1808597; SULFURIC ACID (2N) 1904287 R9HN15546.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 15

TESTAMERICA

THE LEADER IN ENVIRONMENTAL TESTING

Preparation Data Review Checklist

Prep Batch/Test 0067143 Test: NCGLL-L

Prep Date: 3-8-10 Holding Times 3-17-10 3-15-10 3-18-10 NCM: Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1 Holding times checked? NCMs filed as appropriate	/	\
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	/	\
3 Amount of samples in hood match amount of samples on bench sheet Sample IDS match.	/	NA
4 Worksheets have been checked for required spiking compounds	/	\
5 Spiking volumes are correctly documented	/	\
6. Std ID numbers on spike labels match numbers on bench sheet	/	NA
7 Expiration dates have been checked	/	\
8 Calibration expiration dates on pipettors have been checked	/	NA
9. Spiker and spike witness have signed and dated bench sheet	/	\
B. Weights and Volumes		
1 Recorded weights are in anticipated range	NA	\
2. Balance upload or raw data for weights is included	NA	\
3 Weights and volumes have been transcribed correctly to LIMS	NA	\
4 Weights are not targeted to meet exact weights	NA	\
5 Each weight or volume measurement is a unique record (no dittos or line downs)	NA	\
C. Standards and Reagents		
1 Lot numbers for all reagents, including clean up stages, are recorded	NA	\
2 Are dates and analysts for cleanups recorded?	NA	\
3 Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	\
D. Documentation		
1 Are all nonconformances documented appropriately?	NA	\
2 QuantIMs entry correct, including dates and times	NA	\
3 Are all fields completed?	NA	\

Spike witness TP Date 3/8/10

2nd Level Reviewer [signature] Date 3/9/10

Comments

North Canton

TestAmerica Laboratories, Inc.

SAMPLE ANALYSIS REQUISTION

Laboratory **TestAmerica West Sacramento**
880 Riverside Parkway
West Sacramento, CA 95605

Lab Request SR118065

Report Package: **Expanded Deliverables**
Need Analytical Report 2010-03-18

Client Code: 366660

Project Manager: MARK LOEB

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0B250463-1	LV3KM	ATASB-006-5127-SO	2010-02-24 10:53	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-2	LV3KN	ATASB-006-6080-FD	2010-02-24 10:53	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-3	LV3KP	ATASB-006-5128-SO	2010-02-24 11:15	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-4	LV3KQ	ATASB-008-5133-SO	2010-02-24 12:30	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-4	LV3KQ	ATASB-008-5133-SO	2010-02-24 12:30	SOLID, 8330M, Nitroguanidine Propellant
A0B250463-4	LV3KQ	ATASB-008-5133-SO	2010-02-24 12:30	SOLID, 353.2, Nitrocellulose Propellant
A0B250463-5	LV3KR	ATASB-008-5134-SO	2010-02-24 12:45	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-5	LV3KR	ATASB-008-5134-SO	2010-02-24 12:45	SOLID, 8330M, Nitroguanidine Propellant
A0B250463-5	LV3KR	ATASB-008-5134-SO	2010-02-24 12:45	SOLID, 353.2, Nitrocellulose Propellant
A0B250463-6	LV3KT	ATASB-009-5137-SO	2010-02-24 13:25	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-7	LV3KW	ATASB-009-5138-SO	2010-02-24 13:50	SOLID, 8330B, Explosives (/W 8330B prep)

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report

Please send a signed copy of this form with the report at completion of analysis

Relinquished by: JL MJL Date/Time 2/25/10 1330

Relinquished by: _____ Date/Time: _____

Received for lab by Chang Vue Date/Time: 2/26/10 -0935

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

2605

North Canton

TestAmerica Laboratories, Inc.

Laboratory **TestAmerica West Sacramento**
880 Riverside Parkway
West Sacramento, CA 95605

SAMPLE ANALYSIS REQUISTION

Lab Request SR118065

Report Package: **Expanded Deliverables**

Need Analytical Report 2010-03-18

Client Code: 366660

Project Manager: MARK LOEB

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0B250463-8	LV3KX	ATASB-009-6081-FD	2010-02-24 13:55	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-9	LV3K1	ATASB-010-5141-SO	2010-02-24 8:22	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-9 S	LV3K1	ATASB-010-5141-SO	2010-02-24 8:22	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-9 D	LV3K1	ATASB-010-5141-SO	2010-02-24 8:22	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-10	LV3K3	ATASB-010-5142-SO	2010-02-24 9:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-11	LV3K7	ATASB-011-5145-SO	2010-02-24 10:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-12	LV3K8	ATASB-011-5146-SO	2010-02-24 10:24	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-13	LV3K9	F15SS-036M-5427-SO	2010-02-24 14:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-14	LV3LA	F15SS-035M-5428-SO	2010-02-24 12:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-15	LV3LC	F15SS-035M-6121-FD	2010-02-24 12:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-16	LV3LE	F15SS-037M-5429-SO	2010-02-24 13:30	SOLID, 8330B, Explosives (/W 8330B prep)

MS/MSD

Samples will arrive at a later date

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report

Please send a signed copy of this form with the report at completion of analysis

Relinquished by: _____ Date/Time: 2/25/10 1330

Relinquished by: _____ Date/Time: _____

Received for lab by: Cheng Van Date/Time: 2/26/10 - 0935

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

2606

North Canton

TestAmerica Laboratories, Inc.

SAMPLE ANALYSIS REQUISTION

Laboratory **TestAmerica West Sacramento**
880 Riverside Parkway
West Sacramento, CA 95605

Lab Request SR118065

Report Package: **Expanded Deliverables**

Need Analytical Report 2010-03-18

Client Code: 366660

Project Manager: MARK LOEB

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0B250463-18	LV3LJ	F16SS-026M-5431-SO	2010-02-24 14:30	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-18	LV3LJ	F16SS-026M-5431-SO	2010-02-24 14:30	SOLID, 8330M, Nitroguanidine Propellant
A0B250463-18	LV3LJ	F16SS-026M-5431-SO	2010-02-24 14:30	SOLID, 353.2, Nitrocellulose Propellant
A0B250463-20	LV3LM	F16SS-027M-5432-SO	2010-02-24 10:45	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-20 S	LV3LM	F16SS-027M-5432-SO	2010-02-24 10:45	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-20 D	LV3LM	F16SS-027M-5432-SO	2010-02-24 10:45	SOLID, 8330B, Explosives (/W 8330B prep)

Samples will arrive at a later date

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report

Please send a signed copy of this form with the report at completion of analysis

Relinquished by: _____ Date/Time: 2/25/10 1330

Relinquished by: _____ Date/Time: _____

Received for lab by Cheryl Date/Time: 2/26/10-0935

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

2607

North Canton

TestAmerica Laboratories, Inc.

SAMPLE ANALYSIS REQUISTION

Laboratory **TestAmerica West Sacramento**
880 Riverside Parkway
West Sacramento, CA 95605

Lab Request SR118065

Report Package: **Expanded Deliverables**
Need Analytical Report 2010-03-18

Client Code: 366660

Project Manager: MARK LOEB

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0B250463-1	LV3KM	ATASB-006-5127-SO	2010-02-24 10:53	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-2	LV3KN	ATASB-006-6080-FD	2010-02-24 10:53	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-3	LV3KP	ATASB-006-5128-SO	2010-02-24 11:15	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-4	LV3KQ	ATASB-008-5133-SO	2010-02-24 12:30	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-4	LV3KQ	ATASB-008-5133-SO	2010-02-24 12:30	SOLID, 8330M, Nitroguanidine Propellant
A0B250463-4	LV3KQ	ATASB-008-5133-SO	2010-02-24 12:30	SOLID, 353.2, Nitrocellulose Propellant
A0B250463-5	LV3KR	ATASB-008-5134-SO	2010-02-24 12:45	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-5	LV3KR	ATASB-008-5134-SO	2010-02-24 12:45	SOLID, 8330M, Nitroguanidine Propellant
A0B250463-5	LV3KR	ATASB-008-5134-SO	2010-02-24 12:45	SOLID, 353.2, Nitrocellulose Propellant
A0B250463-6	LV3KT	ATASB-009-5137-SO	2010-02-24 13:25	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-7	LV3KW	ATASB-009-5138-SO	2010-02-24 13:50	SOLID, 8330B, Explosives (/W 8330B prep)

Samples already sent on 2/25/10

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report

Please send a signed copy of this form with the report at completion of analysis

Relinquished by: _____ Date/Time: 3/1/10 1400

Relinquished by: _____ Date/Time: _____

Received for lab by: _____ Date/Time 3/2/10 - 1155

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

2608

North Canton

TestAmerica Laboratories, Inc.

SAMPLE ANALYSIS REQUISTION

Laboratory	**TestAmerica West Sacramento**	**Report Package:**	**Expanded Deliverables**
	880 Riverside Parkway	Lab Request SR118065	Need Analytical Report 2010-03-18
	West Sacramento, CA 95605		
	Client Code: 366660	Project Manager:	MARK LOEB

Samples already sent on 2/25/10

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0B250463-8	LV3KX	ATASB-009-6081-FD	2010-02-24 13:55	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-9	LV3K1	ATASB-010-5141-SO	2010-02-24 8:22	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-9 S	LV3K1	ATASB-010-5141-SO	2010-02-24 8:22	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-9 D	LV3K1	ATASB-010-5141-SO	2010-02-24 8:22	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-10	LV3K3	ATASB-010-5142-SO	2010-02-24 9:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-11	LV3K7	ATASB-011-5145-SO	2010-02-24 10:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-12	LV3K8	ATASB-011-5146-SO	2010-02-24 10:24	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-13	LV3K9	F15SS-036M-5427-SO	2010-02-24 14:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-14	LV3LA	F15SS-035M-5428-SO	2010-02-24 12:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-15	LV3LC	F15SS-035M-6121-FD	2010-02-24 12:00	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-16	LV3LE	F15SS-037M-5429-SO	2010-02-24 13:30	SOLID, 8330B, Explosives (/W 8330B prep)

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report

Please send a signed copy of this form with the report at completion of analysis

Relinquished by _____ Date/Time: 3/1/10 1400

Relinquished by _____ Date/Time: _____

Received for lab by _____ Date/Time 3/2/10 - 1155

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

2609

North Canton

TestAmerica Laboratories, Inc.

SAMPLE ANALYSIS REQUISTION

Lab Request SR118065

Laboratory **TestAmerica West Sacramento**
880 Riverside Parkway
West Sacramento, CA 95605

Client Code: 366660

Report Package: Need Analytical Report

Expanded Deliverables
2010-03-18

Project Manager: MARK LOEB

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A0B250463-18	LV3LJ	F16SS-026M-5431-SO	2010-02-24 14:30	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-18	LV3LJ	F16SS-026M-5431-SO	2010-02-24 14:30	SOLID, 8330M, Nitroguanidine Propellant
A0B250463-18	LV3LJ	F16SS-026M-5431-SO	2010-02-24 14:30	SOLID, 353.2, Nitrocellulose Propellant
A0B250463-20	LV3LM	F16SS-027M-5432-SO	2010-02-24 10:45	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-20 S	LV3LM	F16SS-027M-5432-SO MS/MSD	2010-02-24 10:45	SOLID, 8330B, Explosives (/W 8330B prep)
A0B250463-20 D	LV3LM	F16SS-027M-5432-SO	2010-02-24 10:45	SOLID, 8330B, Explosives (/W 8330B prep)

Please use Client Sample ID for report

Call MARK LOEB with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report

Please send a signed copy of this form with the report at completion of analysis

Relinquished by _____ Date/Time: 3/1/10 1400

Relinquished by: _____ Date/Time: _____

Received for lab by: _____ Date/Time: 3/2/10 1155

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

2610

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

63500

CLIENT TAL - N. Canton PM KD LOG # 63464

LOT# (QUANTIMS ID) A0B250463 QUOTE# NA LOCATION W10E

#3/2/10 0955

Checked (✓)

DATE RECEIVED 2/26/10 TIME RECEIVED 0855 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT

☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER

☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) Seal

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☑

COC #(S) NA ☑

TEMPERATURE BLANK Observed: 1 Corrected: 2

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C) #1 2

Observed: #3,2,3 2,4,1 Average 3 2 Corrected Average 3 2

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☐ #5 ☑ ☐ OTHER _____ ☑

CV 2/26/10

Initials Date

---

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY..... ☑

LABELS CHECKED BY..... ☑

PEER REVIEW _____ ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A ☑

☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

CV 2/26/10

Initials Date

Notes # Rec'd additional samples (#13-18, 20 & 21). #21 not on the coc.

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

APPENDIX E

Fate and Transport Modeling Results

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TABLES

FIGURES

ATTACHMENTS

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Tables

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Table E-1. Physical and Chemical Properties of Inorganic SRCs in Surface and Subsurface Soil at Anchor Test Area

Analyte	K_d (L/kg)	Reference	HLC (atm-m^3/mol)	Reference	C_w (mg/L)	SSL Type	Generic SSL	Reference	SSL Type
Arsenic	2.90E+01	a	NA	-	1.00E-02	MCL	2.90E-01	c	MCL
Barium	4.10E+01	a	NA	-	2.00E+00	MCL	8.20E+01	c	MCL
Beryllium	7.90E+02	a	NA	-	4.00E-03	MCL	3.20E+00	c	MCL
Cadmium	7.50E+01	a	NA	-	5.00E-03	MCL	3.80E-01	c	MCL
Chromium	1.90E+01	a	NA	-	1.00E-01	MCL	1.80E+05	c	MCL
Cobalt	5.50E+02	b	NA	-	1.10E-02	RSL	4.90E-01	c	RSL
Manganese	1.80E+02	b	NA	-	8.76E-01	RSL	5.70E+01	c	RSL
Mercury	5.20E+01	a	1.14E-02	c	2.00E-03	MCL	1.00E-01	c	MCL
Nickel	6.50E+01	a	NA	-	7.30E-01	RSL	4.80E+01	c	RSL
Silver	8.30E+00	a	NA	-	1.80E-01	RSL	1.60E+00	c	RSL
Thallium	7.10E+01	a	NA	-	2.00E-03	MCL	1.40E-01	c	MCL

[a]United States Environmental Protection Agency (USEPA) soil screening guidance assuming a neutral pH: *Technical Background Document*, May 1996

[b]Sheppard and Thibault 1990. "Default soil/liquid partition coefficients, K_ds, for four major soil types: a compendium." *Health Physics* **59**:471–482

[c]USEPA RSL May 2010; found at: <http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm>

C_w = Target groundwater concentration (either MCL or RSL)

HLC = Henry's Law Constant

K_d = Distribution coefficient

MCL = Clean Water Act Drinking Water Maximum Contaminant Level

NA = Not Applicable

RSL = USEPA Regional Screening Level (USEPA 2010)

SRC = Site-related Contaminant

SSL = Soil Screening Level

Table E-2. Physical and Chemical Properties of Organic SRCs in Surface and Subsurface Soil at Anchor Test Area

Analyte	K_{oc} (L/kg)	Reference	HLC (atm-m^3/mol)	Reference	C_w (mg/L)	SSL Type	Generic SSL (mg/kg)	Reference	SSL Type
Semi-volatile Organic Compounds									
2-Methylnaphthalene	2.48E+03	a	5.18E-04	a	1.50E-01	RSL	7.50E-01	a	Risk
Benzo(*b*)fluoranthene	5.99E+05	a	6.57E-07	a	2.90E-05	RSL	3.50E-02	a	Risk
Bis(2-ethylhexyl)phthalate	1.20E+05	a	2.70E-07	a	6.00E-03	RSL	1.40E+00	a	Risk
Naphthalene	1.54E+03	a	4.40E-04	a	6.20E-03	RSL	4.70E-04	a	Risk
Volatile Organic Compounds									
Methylene Chloride	2.17E+01	a	3.25E-03	a	5.00E-03	RSL	1.30E-03	a	Risk
Toluene	2.34E+02	a	6.64E-03	a	1.00E+00	MCL	6.90E-01	a	Risk

[a]United States Environmental Protection Agency (USEPA) RSL May 2010; found at: <http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm>
C_w = Target groundwater concentration (either MCL or RSL)
HLC = Henry's Law Constant
K_{oc} = Organic carbon partition coefficient
MCL = Clean Water Act Drinking Water Maximum Contaminant Level
RSL = USEPA Regional Screening Level (USEPA 2010)
SRC = Site-related Contaminant
SSL = Soil Screening Level

Table E-3. HELP Model Parameters for Developing Water Balance Estimates

Layer	Layer Type	Thickness (inch)	Effective K (cm/sec)
1	1--Vertical Percolation Layer	60	2.50E-05
2	3--Barrier Soil Liner	84	8.20E-06

Evapotranspiration and Weather Data	
Station Latitude =	41.24
Maximum Leaf Area Index =	3.5
Start of Growing Season (Julian Date) =	120
End of Growing Season (Julian Date) =	290
Evaporative Zone Depth (inch) =	20 (Fair)

General Design and Evaporative Zone Data	
Fraction of Area Allowing Runoff (%) =	100
Default Soil Database Texture =	Silty Clay
Vegetative Cover =	Poor Stand of Grass
Surface Slope (%) =	4
Slope Length (ft) =	500
SCS Runoff Curve Number =	93

Precipitation Data
Synthetically Generated Using Cleveland, Ohio, Coefficients

Temperature Data
Synthetically Generated Using Cleveland, Ohio, Coefficients

Solar Radiation Data
Synthetically Generated Using Cleveland, Ohio, Coefficients

HELP = Hydrologic Evaluation of Landfill Performance
K = Hydraulic conductivity

Table E-4. Initial CMCOPCs Based on Maximum Concentration of SRCs Compared to GSSL for Anchor Test Area

Analyte	CAS Number	Maximum Concentration (mg/kg)	GSSL (mg/kg)	GSSL Type (mg/kg)	Initial CMCOPC? (Yes/No)	CMCOPC Justification	Samples > SSL/Total Samples	Sample ID at Maximum Concentration	Date Collected
Metals									
Arsenic	**7440-38-2**	**5.40E+01**	**2.90E-01**	**MCL**	**Yes**	**Exceeds SSL**	**18/ 18**	**ATAss-005M-SO**	**11/08/04**
Barium	**7440-39-3**	**1.30E+02**	**8.20E+01**	**MCL**	**Yes**	**Exceeds SSL**	**3/ 18**	**ATAss-001M-SO**	**11/08/04**
Beryllium	7440-41-7	1.20E+00	3.20E+00	MCL	No	Below SSL	0/ 18	ATAss-001M-SO	11/08/04
Cadmium	7440-43-9	1.80E-01	3.80E-01	MCL	No	Below SSL	0/ 18	ATAss-005M-SO	11/08/04
Chromium	7440-47-3	4.23E+01	1.80E+05	MCL	No	Below SSL	0/ 18	ATAss-015M-5036-SO	02/17/10
Cobalt	**7440-48-4**	**1.38E+01**	**4.90E-01**	**Risk**	**Yes**	**Exceeds SSL**	**18/ 18**	**ATAsb-009-5138-SO**	**02/24/10**
Manganese	**7439-96-5**	**1.50E+03**	**5.70E+01**	**Risk**	**Yes**	**Exceeds SSL**	**18/ 18**	**ATAss-001M-SO**	**11/08/04**
Mercury	7439-97-6	6.20E-02	1.00E-01	MCL	No	Below SSL	0/ 18	ATAss-016M-5037-SO	02/17/10
Nickel	7440-02-0	3.86E+01	4.80E+01	Risk	No	Below SSL	0/ 18	ATAsb-010-5142-SO	02/24/10
Silver	7440-22-4	2.30E-02	1.60E+00	Risk	No	Below SSL	0/ 18	ATAsb-010-5143-SO	02/24/10
Thallium	**7440-28-0**	**2.20E-01**	**1.40E-01**	**MCL**	**Yes**	**Exceeds SSL**	**8/ 18**	**ATAss-003M-SO**	**11/08/04**
Semi-volatile Organic Compounds									
2-Methylnaphthalene	91-57-6	9.20E-03	7.50E-01	Risk	No	Below SSL	0/ 4	ATAss-015M-5036-SO	02/17/10
Benzo(*b*)fluoranthene	205-99-2	1.40E-02	3.50E-02	Risk	No	Below SSL	0/ 4	ATAss-003M-SO	11/08/04
Bis(2-ethylhexyl)phthalate	117-81-7	6.90E-02	1.40E+00	MCL	No	Below SSL	0/ 4	ATAss-015M-5036-SO	02/17/10
Naphthalene	**91-20-3**	**1.20E-02**	**4.70E-04**	**Risk**	**Yes**	**Exceeds SSL**	**1/ 4**	**ATAss-015M-5036-SO**	**02/17/10**
Volatile Organic Compounds									
Methylene Chloride	75-09-2	8.00E-04	1.30E-03	MCL	No	Below SSL	0/ 4	ATAsb-008-5135-SO	02/24/10
Toluene	108-88-3	5.00E-04	6.90E-01	MCL	No	Below SSL	0/ 4	ATAsb-008-5135-SO	02/24/10

CAS = Chemical Abstracts Service
CMCOPC = Contaminant Migration Chemical of Potential Concern
GSSL = Generic Soil Screening Level
MCL = Maximum Contaminant Level
SRC = Site-related Contaminant
SSL = Soil Screening Level
Bold = SRCs that exceed the GSSL

Table E-5. DAF Calculation for Anchor Test Area

$$DAF = 1 + \frac{(K \times i \times d)}{(q \times L)}$$

$$d = \sqrt{0.0112 \times L^2} + d_a \times \left[1 - \exp\left(\frac{-L \times q}{K \times i \times d_a}\right)\right]$$

Parameter	Symbol	Value	Unit	Note
DAF	DAF	2.6	unitless	Calculated from DAF equation shown above
Aquifer hydraulic conductivity	K	1.31E+02	m/year	Geometric mean from RVAAP range in MKM 2007
Horizontal hydraulic gradient	i	5.00E-03	m/m	Determined from USACE 2010
Percolation rate	q	9.40E-02	m/year	Developed from HELP model from Cleveland, Ohio, weather data
Source length parallel to groundwater flow	L	9.0	m	Based on average area for all ISM areas for Anchor Test Area
Mixing zone depth	d	2.16	m	Determined from the lower value between above equation for "d" (d = 2.16 m) and d_a
Aquifer thickness	d_a	6	m	Facility-wide assumption for the unconsolidated aquifer presented in the Load Line 1 investigation (USACE 2003)

DAF = Dilution Attenuation Factor
HELP = Hydrologic Evaluation of Landfill Performance
ISM = Incremental Sampling Method
RVAAP = Ravenna Army Ammunition Plant

MKM (MKM Engineers, Inc.) 2007. *Characterization of 14 AOCs at Ravenna Army Ammunition Plant: Characterization of Load Line 5*. March 2007
USACE (United States Army Corps of Engineers) 2003. *Phase II Remedial Investigation Report for the Load Line 1 at the Ravenna Army Ammunition Plant, Ravenna, Ohio*. June 2003
USACE 2010. *Facility-Wide Groundwater Monitoring Program Report on the January 2010 Sampling Event*. July 2010

Table E-6. Initial CMCOPCs Based on Comparison of the SRC's Maximum Concentration at Anchor Test Area with a DAF of 2.6

Analyte	CAS Number	Maximum Concentration (mg/kg)	SSSL (mg/kg)	Initial CMCOPC? (Yes/No)	CMCOPC Justification	Samples > SSL/Total Samples	Sample ID at Maximum Concentration	Date Collected
Metals								
Arsenic	**7440-38-2**	**5.40E+01**	**7.54E-01**	**Yes**	**Exceeds SSSL**	**18/ 18**	**ATAss-005M-SO**	**11/08/04**
Barium	**7440-39-3**	1.30E+02	2.13E+02	No	Below SSSL	3/ 18	ATAss-001M-SO	11/08/04
Cobalt	**7440-48-4**	**1.38E+01**	**1.27E+00**	**Yes**	**Exceeds SSSL**	**18/ 18**	**ATAsb-009-5138-SO**	**02/24/10**
Manganese	**7439-96-5**	**1.50E+03**	**1.48E+02**	**Yes**	**Exceeds SSSL**	**18/ 18**	**ATAss-001M-SO**	**11/08/04**
Thallium	**7440-28-0**	2.20E-01	3.64E-01	No	Below SSSL	8/ 18	ATAss-003M-SO	11/08/04
Semi-volatile Organic Compounds								
Naphthalene	**91-20-3**	**1.20E-02**	**1.22E-03**	**Yes**	**Exceeds SSSL**	**1/ 4**	**ATAss-015M-5036-SO**	**02/17/10**

CAS = Chemical Abstracts Service
CMCOPC = Contaminant Migration Chemical of Potential Concern
DAF = Dilution Attenuation Factor
SRC = Site-related Contaminant
SSL = Soil Screening Level
SSSL = Site-specific Soil Screening Level
Bold = SRCs that exceed the SSSL

Table E-7. Initial CMCOPCs Based on Arrival Time to Groundwater Table in Less Than or Equal to 1,000 Years at Anchor Test Area

$$R = 1 + \frac{\rho_b K_d}{\theta_w} \qquad T = L_z \theta_w R / q$$

Parameter	Symbol	Value	Unit	Note
Percolation rate	q	0.31	ft/year	Developed from HELP model from Cleveland, Ohio, weather data
Soil-water distribution coefficient	K_d	constituent-specific	L/kg	See footnotes below for references
Organic carbon distribution coefficient	K_{oc}	constituent-specific	L/kg	See footnotes below for references
Fraction organic carbon	f_{oc}	0.0008	unitless	Average from the PBA08 RI geotechnical samples ATASB-007-5131-SO and ATASB-007-5132-SO
Water-filled soil porosity	θw	0.274	unitless	
Bulk density (dry)	ρb	1.61	gm/cm^3	
Leaching zone	Lz	ISM-specific	ft	Distance from last layer of soil contamination greater than background concentration to top of water table
Retardation factor	R	constituent-specific	unitless	Calculated by equation shown above
Arrival time	T	constituent-specific	year	Calculated by equation shown above

Table E-7. Initial CMCOPCs Based on Arrival Time to Groundwater Table in Less Than or Equal to 1,000 Years at Anchor Test Area (continued)

Analyte	Initial CMCOPC Sample ID	Sample Depth[a] (ft)	Lz[b] (ft)	K_{oc} (L/kg)	Reference	K_d (L/kg)	Reference	R	T (year)	T < 1000? from Sample Depth to Groundwater Table (yes/no)
Metals and Inorganic Compounds										
Arsenic	**ATAss-005M-SO**	**0.0 - 4.0**	**6.0**	**NA**	**-**	**2.90E+01**	**c**	**1.15E+02**	**912**	**Yes**
Cobalt	ATAss-016M-5037-SO	0.0 - 4.0	6.0	NA	-	5.50E+02	d	2.17E+03	17,100	No
Manganese	ATAss-001M-SO	0.0 - 4.0	6.0	NA	-	1.80E+02	d	7.11E+02	5,620	No
Semi-volatile Organic Compounds										
Naphthalene	**ATAss-015M-5036-SO**	**0.0 - 1.0**	**9.0**	**1.54E+03**	**e**	**1.23E+00**	**f**	**5.86E+00**	**69**	**Yes**

[a]The maximum depth of an initial CMCOPC (based on the maximum depth that an analyte is detected above Facility-wide background)
[b]Based on each average depth to water from ground surface and depth of soil sample
[c]USEPA (United States Environmental Protection Agency) 1996. *Soil Screening Guidance: Technical Background Document.* Office of Solid Waste and Emergency Response, Washington, D.C. May 1996
[d]Sheppard and Thibault 1990. "Default soil/liquid partition coefficients, K_ds, for four major soil types: a compendium." *Health Physics* **59**:471–482
[e]USEPA Regional Screening Level May 2010; found at: <http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm>
[f]K_d value for organics calculated by multiplying K_{oc} by f_{oc} of 0.0008 (average from PBA08 RI geotechnical samples ATASB-007-5131-SO and ATASB-007-5132-SO)
CMCOPC = Contaminant Migration Chemical of Potential Concern
HELP = Hydrologic Evaluation of Landfill Performance
NA = Not Applicable
PBA08 RI = Performance Based Acquisition 2008 Remedial Investigation
Bold = Initial CMCOPCs that exceed the 1,000-year travel time screen

Table E-8. Climatic Data from SESOIL for Anchor Test Area

Month	Air Temp (°C)	Cloud Cover	Humidity	Albedo	Evapotranspiration[a] (cm/day)	Precipitation (cm)	Duration (days)	Storms per Month	Model Days in Month
October	12	0.60	0.70	0.17	0	6.46	0.42	5.33	30.4
November	5.22	0.70	0.75	0.24	0	7.4	0.53	6.67	30.4
December	-1.06	0.80	0.75	0.31	0	7.06	0.57	6.14	30.4
January	-2.94	0.80	0.80	0.3	0	7.06	0.61	5.69	30.4
February	-2.33	0.70	0.75	0.32	0	5.76	0.53	5.09	30.4
March	2.33	0.70	0.70	0.29	0	8.26	0.55	7.14	30.4
April	9.11	0.70	0.70	0.19	0	8.83	0.48	7.4	30.4
May	14.61	0.60	0.70	0.16	0	8.46	0.45	7.15	30.4
June	19.89	0.60	0.70	0.16	0	9.07	0.36	6.57	30.4
July	21.89	0.50	0.70	0.16	0	9.8	0.3	6.06	30.4
August	21.11	0.55	0.70	0.16	0	8.14	0.3	6.06	30.4
September	17.67	0.55	0.70	0.16	0	7.85	0.4	5.44	30.4

[a]Data calculated in SESOIL model; 0.00 indicates evapotranspiration is calculated from other climatic data
1996 data from Youngstown, Ohio, Weather Service Office - Airport Station
SESOIL = Seasonal Soil Compartment

Table E-9. Physical and Chemical Properties of Initial CMCOPCs Selected for SESOIL Modeling for Anchor Test Area

Initial CMCOPC	Molecular Weight	Solubility (mg/L)	Reference	K_d (L/kg)[a]	Reference	Diffusion Coefficient in Air (cm^2/sec)	Reference	Biodegradation Rate (1/day)	Sample Location	Application Area (cm^2)
Metals										
Arsenic	74.9	0.00E+00	b	2.90E+01	c	NA	NA	NA	ATAss-005M	2.09E+05
Semi-volatile Organic Compounds										
Naphthalene	128.2	3.00E+01	b	1.23E+00	b	6.0E-02	b	NA	ATAss-015M	6.69E+05

[a]K_d value for organics calculated by multiplying K_{oc} by f_{oc} of 0.0008 (average from Performance Based Acquisition 2008 Remedial Investigation geotechnical samples ATASB-007-5131-SO and ATASB-007-5132-SO)
[b]United States Environmental Protection Agency (USEPA) Regional Screening Level May 2010; found at: <http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm>
[c]USEPA soil screening guidance assuming a neutral pH: *Technical Background Document*, May 1996
CMCOPC = Contaminant Migration Chemical of Potential Concern
K_d = Distribution coefficient
NA = Not Applicable
SESOIL = Seasonal Soil Compartment

Table E-10. Load Application Data for SESOIL Model for Anchor Test Area

10-ft-thick Vadose Zone for Arsenic

Analyte	Number of Layers	Layer Number	Thickness of Layer (ft)	Number of Sublayers	Sublayer Number	Concentration (mg/kg)	Layer Purpose
Arsenic	4	1	1	1	1	54	Contaminant Loading
		2	6	2	1	12.2	
					2	9.7	
		3	3	3	1	0	Leaching
					2	0	
					3	0	
		4	0.5	2	1	0	
					2	0	

10-ft-thick Vadose Zone for Naphthalene

Analyte	Number of Layers	Layer Number	Thickness of Layer (ft)	Number of Sublayers	Sublayer Number	Concentration (mg/kg)	Layer Purpose
Naphthalene	4	1	1	1	1	0.012	Contaminant Loading
		2	6	2	1	0	Leaching
					2	0	
		3	3	3	1	0	
					2	0	
					3	0	
		4	0.5	2	1	0	
					2	0	

SESOIL = Seasonal Soil Compartment

Table E-11. Physical and Chemical Properties of Final CMCOPCs Selected for AT123D Modeling at Anchor Test Area

Analyte	K_d (L/kg)	Source	Retardation Factor (R)	Source	Diffusion Coefficient in Water (cm^2/sec)	Source	Biodegradation Rate (1/day)	Source
Metals								
Arsenic	2.90E+01	a	1.15E+02	b	NA	NA	NA	NA

[a]United States Environmental Protection Agency soil screening guidance assuming a neutral pH: *Technical Background Document*, May 1996
[b]R value calculated from equation in Table E-7
AT123D = Analytical Transient 1-,2-,3-Dimensional
CMCOPC = Contaminant Migration Chemical of Potential Concern
K_d = Distribution coefficient
NA = Not Applicable

Figures

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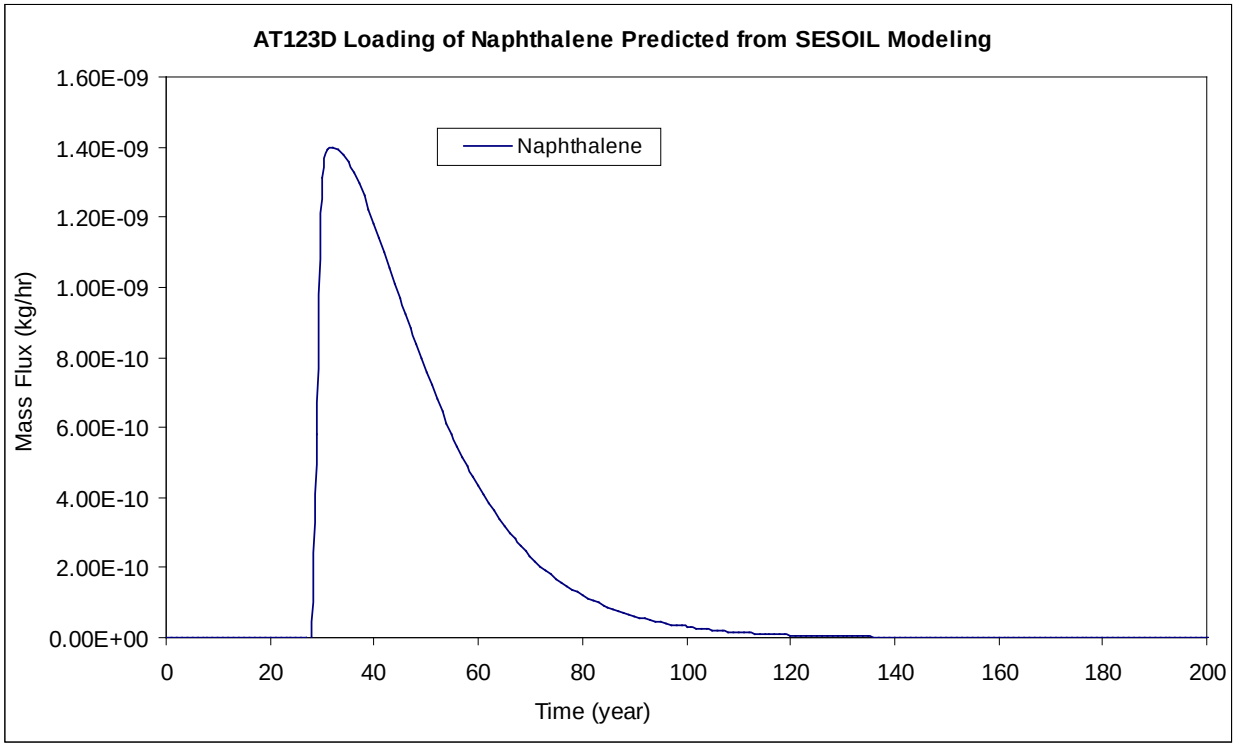

Figure E-1. SESOIL-Predicted Contaminant Mass Loading for AT123D Modeling – Naphthalene

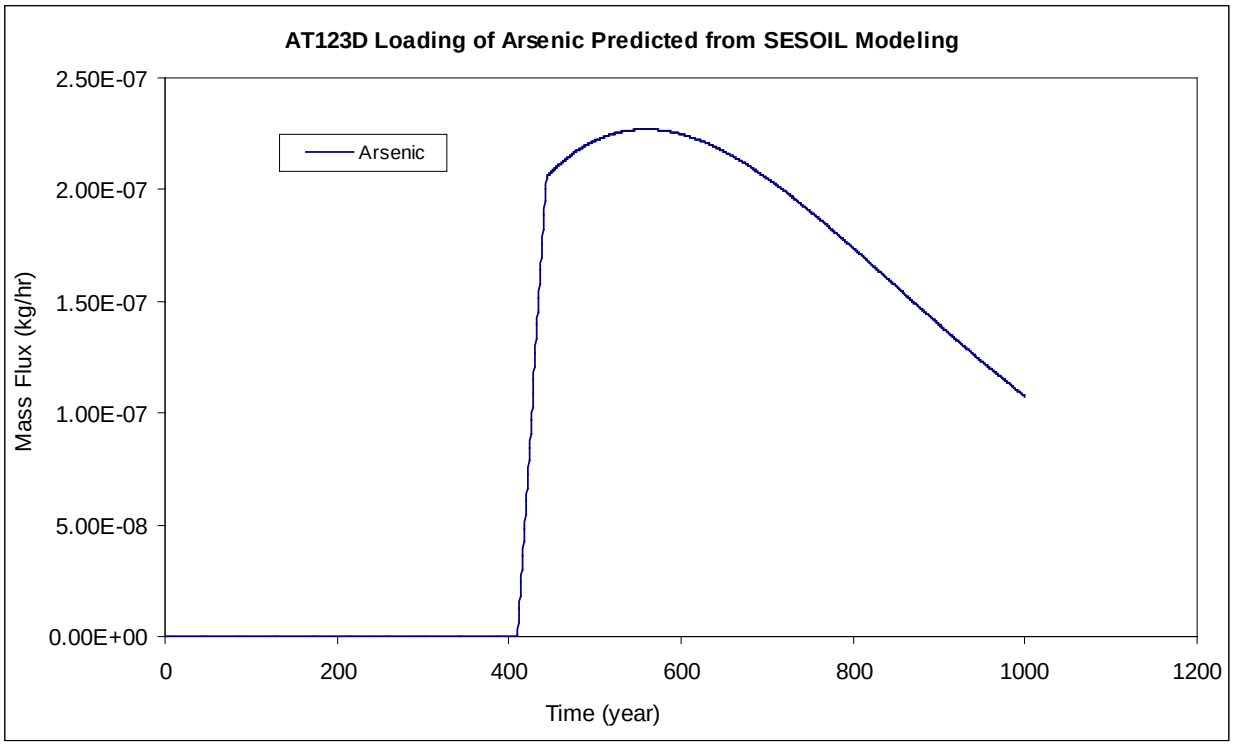

Figure E-2. SESOIL-Predicted Contaminant Mass Loading for AT123D Modeling – Arsenic

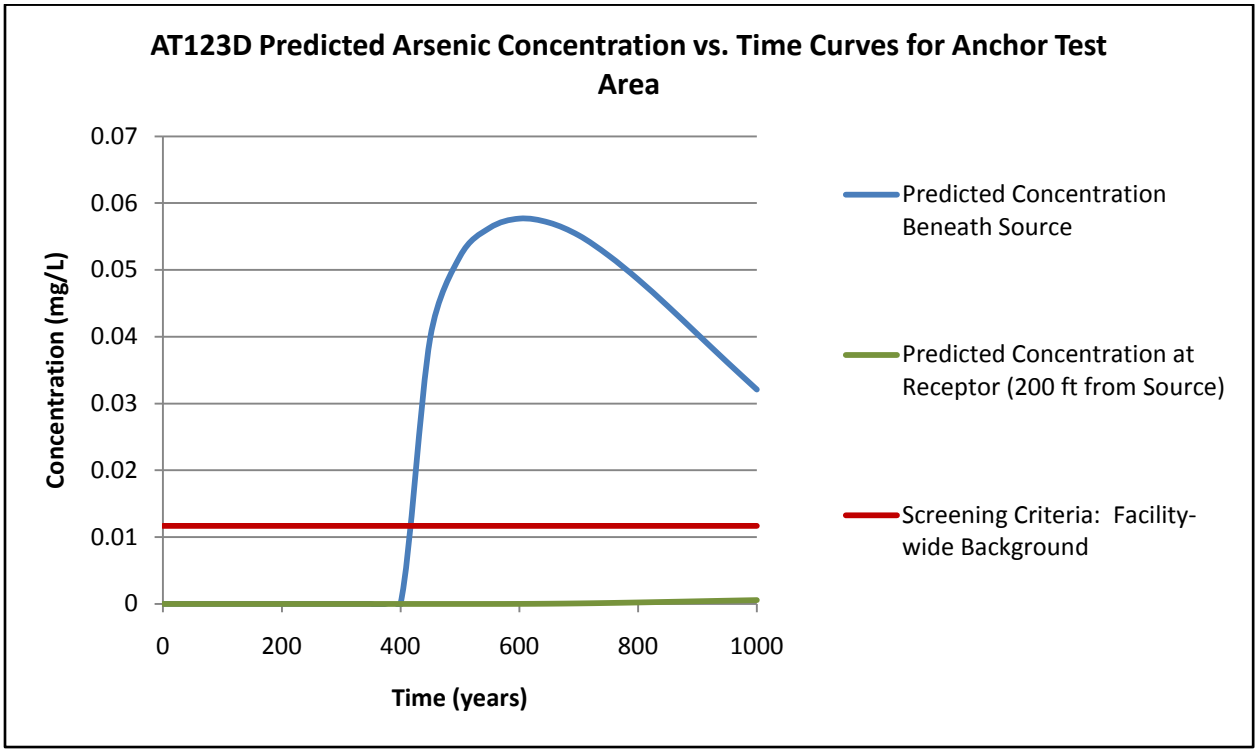

Figure E-3. Predicted Concentration of Arsenic in Groundwater Based on AT123D Modeling at Anchor Test Area

Attachment 1. SESOIL Modeling Output Files
Attachment 2. AT123D Modeling Output Files

AVAILABLE UPON REQUEST

APPENDIX F

Investigation-Derived Waste Management Reports

Appendix F-1. Characterization and Disposal Letter Report for Soil Cuttings and Decontamination Fluids
Appendix F-2. Ohio EPA Approval of Waste Characterization

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Appendix F-1. Characterization and Disposal Letter Report for Soil Cuttings and Decontamination Fluids

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SAIC Engineering of Ohio, Inc.
A subsidiary of Science Applications International Corporation

May 25, 2010

Mr. Mark Nichter
U.S. Army Corps of Engineers, Louisville District
ATTN: CELRL-PM-P-E
600 Martin Luther King, Jr. Place
Louisville, Kentucky 40202-0059

Reference: **Contract No. W912QR-04-D-0028, Delivery Order 0001, 2008 Performance-Based Acquisition (PBA) for Environmental Investigation and Remediation at the Ravenna Army Ammunition Plant (RVAAP), Ravenna, Ohio**

Subject: **Contract Line Item (CLIN) 2.2 – Implementation of Remedial Investigation Work Plan ~ Characterization and Disposal Letter Report for Soil Cuttings and Decontamination Fluids**

Dear Mr. Nichter:

Investigative activities in accordance with the *PBA 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1* (December 2009) (herein referred to as the SAP Addendum No. 1) were performed from February 15, 2010 through April 14, 2010. These activities have resulted in the generation of Investigation-Derived Waste (IDW) consisting of soil cuttings from drilling activities and equipment decontamination fluids. The purpose of this letter is to characterize and classify IDW for disposal and to propose methods for disposing the IDW.

This letter report includes a summary of IDW generated, the origin of the IDW (Table 1), as well as proposed classification and recommendations for disposal of the IDW (Table 2). This letter report follows guidance established by the following:

1) The *Facility-Wide Sampling and Analysis Plan* (USACE 2001) (herein referred to at the Facility-wide SAP);
2) The SAP Addendum No. 1; and
3) Letter to RVAAP/USACE Regarding IDW Disposal Guidance (Ohio EPA, November 3, 1997).

Three distinct IDW streams were sampled as part of the PBA 2008 RI field activities. Each waste stream was composited and sampled on April 14, 2010 per requirements outlined in Section 7.0 of the Facility-wide SAP and SAP Addendum No. 1. IDW streams generated are:

- One (1), 15-gallon drum containing 2% HCl and DI water from equipment decontamination rinse;
- Six (6), 55-gallon drums containing liquinox wash water from equipment decontamination; and
- Twelve (12), 55-gallon drums containing soil and sediment from PBA 2008 RI activities.

Table 1. Summary of Sampled Investigation-Derived Wastes from Sampling Activities for the PBA 2008 Supplemental Investigation Sampling.

Container Number	Container Type and Size	Contents	Generation Date	Sample ID	Date Sampled
SAIC-2009-4	15 Gallon, Poly, Open Top Drum	2% HCl and DI Water	09/22/09 - 4/14/10	PBA-WW-IDW-5787-WW	4/14/2010
SAIC-2010-1	55 Gallon, Steel, Closed Top Drum	Decon Wash Water	01/18/10 – 02/25/10	PBA-WW-IDW-5788-WW	4/14/2010
SAIC-2010-2	55 Gallon, Steel, Closed Top Drum	Decon Wash Water & Purge Water	01/19/10 – 03/29/10	PBA-WW-IDW-5788-WW	4/14/2010
SAIC-2010-3	55 Gallon, Steel, Open Top Drum	Soil Cuttings	02/16/10 – 03/09/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-4	55 Gallon, Steel, Open Top Drum	Soil Cuttings	02/23/10 – 03/16/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-5	55 Gallon, Steel, Open Top Drum	Soil Cuttings	03/1/10 – 03/12/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-6	55 Gallon, Steel, Closed Top Drum	Decon Wash Water	03/2/10 – 03/18/10	PBA-WW-IDW-5788-WW	4/14/2010
SAIC-2010-7	55 Gallon, Steel, Open Top Drum	Soil Cuttings	03/3/10 – 03/9/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-8	55 Gallon, Steel, Closed Top Drum	Decon Wash Water	03/3/10 – 03/18/10	PBA-WW-IDW-5788-WW	4/14/2010
SAIC-2010-9	55 Gallon, Steel, Open Top Drum	Soil Cuttings	03/10/10 – 03/23/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-10	55 Gallon, Steel, Open Top Drum	Soil Cuttings	03/17/10 – 03/29/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-11	55 Gallon, Steel, Open Top Drum	Soil Cuttings	03/18/10 – 04/08/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-13	55 Gallon, Steel, Open Top Drum	Soil Cuttings	03/24/10 – 03/25/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-14	55 Gallon, Steel, Open Top Drum	Soil Cuttings & Sediment	03/25/10 – 04/07/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-15	55 Gallon, Steel, Open Top Drum	Soil Cuttings	04/02/10 – 04/06/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-16	55 Gallon, Steel, Open Top Drum	Soil Cuttings	04/02/10 – 04/07/10	PBA-SO-IDW-5806-SO	4/14/2010
SAIC-2010-17	55 Gallon, Steel, Closed Top Drum	Decon Wash Water	03/29/10 – 03/29/10	PBA-WW-IDW-5788-WW	4/14/2010
SAIC-2010-18	55 Gallon, Steel, Closed Top Drum	Decon Wash Water	03/29/10 – 04/14/10	PBA-WW-IDW-5788-WW	4/14/2010
SAIC-2010-19	55 Gallon, Steel, Open Top Drum	Soil Cuttings	03/29/10 – 04/12/10	PBA-SO-IDW-5806-SO	4/14/2010

SAIC-2009-3, SAIC-2010-12, SAIC-2010-20, SAIC-2010-21 are not included in this list as these containers are partially full and have been carried over to future planned PBA 2008 sampling to minimize IDW waste containers. These four containers have not been sampled.

Liquid IDW Discussion

Per Section 7.0 of the Facility-wide SAP, two composite waste samples were collected for Toxicity Characteristic Leaching Procedure (TCLP) parameters and submitted for laboratory analysis to characterize the waste streams for disposal. The first sample (PBA-WW-IDW-5787-WW) characterized one drum of decontamination fluids containing 2% HCl and DI Water. The second sample (PBA-WW-ODW-5788-WW) was composited from six drums containing liquinox wash water from equipment decontamination. Upon receipt of analytical results from the laboratory, the analytical results were validated and reviewed to determine if the waste was potentially hazardous. This review consisted of a comparison of the analytical results against the TCLP criteria presented in Table 7-1, Maximum Concentration of Contaminants for the Toxicity Characteristic (40 *CFR* 261.24), presented in the Facility-Wide SAP (USACE 2001) and Resource Conservation Recovery Act (RCRA) Hazardous Waste regulations 40 *CFR* 261 – 265.

Attachment 1 presents the analytical laboratory data for TCLP analysis for IDW water generated during ongoing field activities. The results are summarized below:

1) All analytical results were below quantitative limits for the IDW liquid sample;
2) The pH for the IDW aqueous waste is considered neutral (2 S. U. < pH < 12 S.U.);
3) The flash point was below detectable limits, >180°F.

Given the observed analytical results, it is recommended that both liquid IDW streams be classified as non-hazardous, non-contaminated.

Solid IDW Discussion

Per Section 7.0 of the Facility-wide SAP, a composite waste sample (PBA-SO-IDW-5806-SO) was collected for TCLP parameters and submitted for laboratory analysis to characterize the soil IDW for disposal. Upon receipt of analytical results from the laboratory, the analytical results were validated and reviewed to determine if the waste was potentially hazardous. This review consisted of a comparison of the analytical results against the TCLP criteria presented in Table 7-1, Maximum Concentration of Contaminants for the Toxicity Characteristic (40 *CFR* 261.24), presented in the Facility-Wide SAP (USACE 2001) and RCRA Hazardous Waste regulations 40 *CFR* 261 – 265.

Attachment 1 presents the analytical laboratory data for TCLP analysis for solid IDW generated during ongoing field activities. The results are summarized below:

1) All analytical results were below quantitative limits for the IDW solid sample;
2) The pH for the IDW sample was neutral, at 7.5 standard units; and
3) The flash point was below detectable limits, >180°F.

Given the observed analytical results, it is recommended that the solid IDW stream be classified as non-hazardous, non-contaminated.

Recommended Disposal Pathways for IDW

Table 2 presents the disposal pathway identified as a result of IDW characterization data. Please note that this IDW has been characterized under provisions of the Facility-Wide SAP and SAP Addendum No. 1 using TCLP analyses and process knowledge. SAIC recommends that all IDW be disposed as non-hazardous, non-contaminated waste to be removed offsite by a permitted water treatment or waste

facility unless the U.S. Army has additional information that would result in the IDW meeting the definition of a listed hazardous waste as defined in 40 *CFR* Part 261 Subpart D.

Table 2. Summary of Final Waste Classification and Recommended Disposal

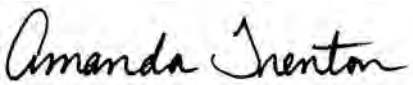
NON-HAZARDOUS WASTE			
Container Number	**Medium**	**Waste Criterion**	**Disposal Recommendation**
SAIC-2009-4	Liquid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-1	Liquid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-2	Liquid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-3	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-4	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-5	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-6	Liquid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-7	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-8	Liquid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-9	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-10	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-11	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-13	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-14	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-15	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-16	Solid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-17	Liquid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-18	Liquid	Inorganics, organics	Permitted Treatment or Waste Facility
SAIC-2010-19	Solid	Inorganics, organics	Permitted Treatment or Waste Facility

Since RVAAP, under RCRA, is the generator of this material, SAIC requests concurrence or direction on the waste classification and recommended disposal pathways prior to disposal. Following your concurrence, we will proceed with the appropriate waste disposal.

If you have any questions, or require additional information, please do not hesitate to contact me at (330) 405-5822.

Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION



Amanda Trenton
Project IDW Coordinator

cc: Vicki Deppisch – Ohio EPA
Eileen Mohr – Ohio EPA
Mark Nichter – USACE
Mark Patterson – RVAAP
Christy Esler – RVAAP
Jim McGee – RVAAP/Vista
Kevin Jago – SAIC
Jed Thomas – SAIC
SAIC Contract No. W912QR-04-D-0028 Project File
SAIC Central Records Facility

ATTACHMENT 1
ANALYTICAL RESULTS FOR IDW

Parameter	CAS Number	Units	Maximum Concentration For Toxicity Characteristic	PBA-SO-IDW-5806-SO	PBA-WW-IDW-5787-WW	PBA-WW-IDW-5788-WW
TCLP Herbicides						
2,4,5-TP (Silvex)	93-72-1	mg/L	1	0.1 U	0.1 U	0.1 U
2,4-D	94-75-7	mg/L	10	0.5 UJ	0.5 UJ	0.5 UJ
TCLP Metals						
Arsenic	7440-38-2	mg/L	5	0.5 U	0.5 U	0.008 UJ
Barium	7440-39-3	mg/L	100	0.47 UJ	0.16 UJ	0.023 UJ
Cadmium	7440-43-9	mg/L	1	0.0016 UJ	0.0044 UJ	0.1 U
Chromium	7440-47-3	mg/L	5	0.012 UJ	0.13 UJ	0.0032 UJ
Lead	7439-92-1	mg/L	5	0.0095 UJ	0.062 UJ	0.0044 UJ
Mercury	7439-97-6	mg/L	0.2	0.002 U	0.002 U	0.002 U
Selenium	7782-49-2	mg/L	1	0.25 U	0.25 U	0.25 U
Silver	7440-22-4	mg/L	5	0.5 U	0.5 U	0.0028 UJ
Miscellaneous						
Acid-soluble sulfide	Q1314	mg/kg	-	30.6 J	NA	NA
Acid-soluble sulfide	Q1314	mg/L	-	NA	3 U	3 U
Corrosivity	Q183	No Units	-	7.5	2.3	7.4
Cyanide, Total	57-12-5	mg/kg	-	0.32 J	NA	NA
Cyanide, Total	57-12-5	mg/L	-	NA	0.01 U	0.01 U
Flashpoint	Q376	deg F	-	>180	>180	>180
Percent Solids	Q1082	%	-	75.9	NA	NA
TCLP Pesticides						
Chlordane (technical)	57-74-9	mg/L	0.03	0.005 U	0.005 U	0.005 U
Endrin	72-20-8	mg/L	0.02	0.0005 U	0.0005 U	0.0005 U
Heptachlor	76-44-8	mg/L	0.008	0.0005 U	0.0005 U	0.0005 U
Heptachlor epoxide	1024-57-3	mg/L	0.008	0.0005 U	0.0005 U	0.0005 U
Lindane	58-89-9	mg/L	0.4	0.0005 U	0.000017 J	0.0005 U
Methoxychlor	72-43-5	mg/L	10	0.001 U	0.001 U	0.001 U
Toxaphene	8001-35-2	mg/L	0.5	0.02 UJ	0.02 UJ	0.02 UJ

Parameter	CAS Number	Units	Maximum Concentration For Toxicity Characteristic	PBA-SO-IDW-5806-SO	PBA-WW-IDW-5787-WW	PBA-WW-IDW-5788-WW
TCLP Semi-Volatile Organics						
1,4-Dichlorobenzene	106-46-7	mg/L	7.5	0.004 U	0.004 U	0.004 U
2,4,5-Trichlorophenol	95-95-4	mg/L	400	0.02 U	0.02 U	0.02 U
2,4,6-Trichlorophenol	88-06-2	mg/L	2	0.02 U	0.02 U	0.02 U
2,4-Dinitrotoluene	121-14-2	mg/L	0.13	0.02 U	0.02 U	0.02 U
Hexachlorobenzene	118-74-1	mg/L	0.13	0.02 U	0.02 U	0.02 U
Hexachlorobutadiene	87-68-3	mg/L	0.5	0.02 U	0.02 U	0.02 U
Hexachloroethane	67-72-1	mg/L	3	0.02 U	0.02 U	0.02 U
m-Cresol & p-Cresol	65794-96-9	mg/L	200	0.04 U	0.04 U	0.04 U
Nitrobenzene	98-95-3	mg/L	2	0.004 U	0.004 U	0.004 U
o-Cresol	95-48-7	mg/L	200	0.004 U	0.004 U	0.004 U
Pentachlorophenol	87-86-5	mg/L	100	0.04 U	0.04 U	0.04 U
Pyridine	110-86-1	mg/L	5	0.02 U	0.02 U	0.02 U
TCLP Volatile Organics						
1,1-Dichloroethylene	75-35-4	mg/L	0.7	0.07 U	0.07 U	0.07 U
1,2-Dichloroethane	107-06-2	mg/L	0.5	0.025 U	0.025 U	0.025 U
2-Butanone (MEK)	78-93-3	mg/L	200	0.25 U	0.25 U	0.25 U
Benzene	71-43-2	mg/L	0.5	0.025 U	0.025 U	0.025 U
Carbon tetrachloride	56-23-5	mg/L	0.5	0.025 U	0.025 U	0.025 U
Chlorobenzene	108-90-7	mg/L	100	0.025 U	0.025 U	0.025 U
Chloroform	67-66-3	mg/L	6	0.025 U	0.025 U	0.025 U
Tetrachloroethylene	127-18-4	mg/L	0.7	0.07 U	0.07 U	0.07 U
Trichloroethylene	79-01-6	mg/L	0.5	0.05 U	0.05 U	0.05 U
Vinyl chloride	75-01-4	mg/L	0.2	0.025 U	0.025 U	0.025 U

J = Estimated Concentration, less than the reporting limit – Lab Qualifier
U = Non-detect, concentration reported is reporting limit – Lab Qualifier
UJ = Non-detect, reporting limit estimated – Lab Qualifier
- = No Standard Exists
NA = Not Applicable

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Appendix F-2. Ohio EPA Approval of Waste Characterization

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OhioEPA
State of Ohio Environmental Protection Agency
Northeast District Office

2110 East Aurora Rd.
Twinsburg, Ohio 44087

TELE: (330) 963-1200 FAX: (330) 487-0769
www.epa.state.oh.us

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

June 2, 2010

CERTIFIED MAIL

Mr. Mark Patterson
Installation Manager
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, OH 44266

RE: ***RAVENNA ARMY AMMUNITION PLANT, PORTAGE/TRUMBULL COUNTIES, DRAFT, INVESTIGATION DERIVEDWASTE AND DISPOSAL PLAN, FWGWMP, FOR THE "IMPLEMENTATION OF REMEDIAL INVESTIGATION WORK PLAN-CHARACTERIZATION AND DISPOSAL, LETTER REPORT FOR SOIL CUTTINGS AND DECONTAMINATION FLUIDS" DATED MAY 25, 2010***

Dear Mr. Patterson:

The Ohio Environmental Protection Agency (Ohio EPA) has received and reviewed the "Implementation of Remedial Investigation Work Plan-characterization and Disposal Letter Report for Soil cuttings and Decontamination Fluids" at the Ravenna Army Ammunition Plant, Ravenna, OH document. This document was received at Ohio EPA, Northeast District Office (NEDO), Division of Emergency and Remedial response (DERR), and is dated May 25, 2010. The document was prepared for the U.S. Army Corps of Engineers (USACE) – Louisville District, by SAIC Engineering of Ohio, Inc., under contract no. W912QR-04-D-0028.

The report is approved and Ohio EPA concurs that the generation of Investigation Derived Waste (IDW) consisting of purged water may be disposed of as non-contaminated, non-hazardous waste and that it be sent off-site for disposal to a permitted water treatment facility.

If you have any questions, please call me at (330) 963-1207.

Sincerely,

Vicki Deppisch
Project Coordinator
Division of Emergency and Remedial Response

VD:ddw

cc: Eileen Mohr, Ohio EPA, NEDO, DERR
Amanda Trent, SAIC Twinsburg, OH
Katie Elgin, OHARNG RTLS
Maj. Ed Meade, OHARNG RTLS
Glen Beckham, USACE Louisville
Mark Nichter, USACE Louisville
Mark Krivansky, AEC

ec: Mike Eberle, Ohio EPA, NEDO, DERR
Todd Fisher, Ohio EPA, NEDO, DERR

APPENDIX G

Human Health Risk Assessment Tables

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LIST OF TABLES

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Table G-1. SRC and COPC Screening for Shallow Surface Soil (0-1 ft bgs ISM Samples) at Anchor Test Area

Analyte (mg/kg)	CAS Number	Freq of Detect	Minimum Detect	Maximum Detect	Average Result	Background Criteria[a]	SRC? yes/no	SRC Justification	Screening FWCUG[b] (HQ=0.1 or Risk=1E-6) RFA	RFC	NGT	Risk Screening Level	Screening Level Source[c]	COPC? yes/no	COPC Justification	Station at Max Detect	Date Collected at Max Detect
Metals																	
Aluminum	7429-90-5	7/ 7	3300	13100	10400	17700	No	Below background	52923	7380	3496	3496	NGT	No	Below background	ATAss-015M	2/17/2010
Antimony	7440-36-0	3/ 7	0.11	0.59	0.52	0.96	No	Below background	13.6	2.82	175	2.82	RFC	No	Below background	ATAss-005M	11/8/2004
Arsenic	**7440-38-2**	**7/ 7**	**7.5**	**54**	**15.8**	**15.4**	**Yes**	**Exceeds background**	**0.425**	**0.524**	**2.78**	**0.425**	**RFA**	**Yes**	**Exceeds screening level**	**ATAss-005M**	**11/8/2004**
Barium	7440-39-3	7/ 7	22	130	70.7	88.4	Yes	Exceeds background	8966	1413	351	351	NGT	No	Below risk screening criteria	ATAss-001M	11/8/2004
Beryllium	7440-41-7	7/ 7	0.24	1.2	0.66	0.88	Yes	Exceeds background	--	--	--	16	RSL	No	Below risk screening criteria	ATAss-001M	11/8/2004
Cadmium	7440-43-9	4/ 7	0.1	0.18	0.128	0	Yes	Exceeds background	22.3	6.41	10.9	6.41	RFC	No	Below risk screening criteria	ATAss-005M	11/8/2004
Calcium	7440-70-2	7/ 7	1100	18000	8700	15800	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAss-001M	11/8/2004
Chromium[d]	**7440-47-3**	**7/ 7**	**16**	**42.3**	**25.5**	**17.4**	**Yes**	**Exceeds background**	**90.4**	**19.9**	**1.64**	**1.64**	**NGT**	**Yes**	**Exceeds screening level**	**ATAss-015M**	**2/17/2010**
Cobalt	**7440-48-4**	**7/ 7**	**3.6**	**10.6**	**7.89**	**10.4**	**Yes**	**Exceeds background**	**803**	**131**	**7.03**	**7.03**	**NGT**	**Yes**	**Exceeds screening level**	**ATAss-016M**	**2/17/2010**
Copper	7440-50-8	7/ 7	9.3	16.8	12.6	17.7	No	Below background	2714	311	25368	311	RFC	No	Below background	ATAss-015M	2/17/2010
Iron	7439-89-6	7/ 7	11000	26300	19200	23100	No	Essential Nutrient	19010	2313	184370	180000	RDA	No	Essential Nutrient	ATAss-015M	2/17/2010
Lead	7439-92-1	7/ 7	8.7	23	16.8	26.1	No	Below background	--	--	--	400	RSL	No	Below background	ATAss-005M	11/8/2004
Magnesium	7439-95-4	7/ 7	1800	3700	3030	3030	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAss-001M	11/8/2004
Manganese	**7439-96-5**	**7/ 7**	**330**	**1500**	**807**	**1450**	**Yes**	**Exceeds background**	**1482**	**293**	**35.1**	**35.1**	**NGT**	**Yes**	**Exceeds screening level**	**ATAss-001M**	**11/8/2004**
Mercury	7439-97-6	6/ 7	0.038	0.062	0.0429	0.036	Yes	Exceeds background	16.5	2.27	172	2.27	RFC	No	Below risk screening criteria	ATAss-016M	2/17/2010
Nickel	7440-02-0	7/ 7	13	31.9	18.6	21.1	Yes	Exceeds background	1346	155	12639	155	RFC	No	Below risk screening criteria	ATAss-015M	2/17/2010
Potassium	7440-09-7	7/ 7	490	1100	886	927	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAss-004M	11/8/2004
Selenium	7782-49-2	7/ 7	0.45	1	0.767	1.4	No	Below background	--	--	--	39	RSL	No	Below background	ATAss-001M	11/8/2004
Sodium	7440-23-5	6/ 7	31.4	290	166	123	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAss-001M	11/8/2004
Thallium	7440-28-0	3/ 7	0.18	0.22	0.251	0	Yes	Exceeds background	4.76	0.612	47.7	0.612	RFC	No	Below risk screening criteria	ATAss-003M	11/8/2004
Vanadium	7440-62-2	7/ 7	6.8	24	18.3	31.1	No	Below background	156	44.9	2304	44.9	RFC	No	Below background	ATAss-005M	11/8/2004
Zinc	7440-66-6	7/ 7	49	57	53.9	61.8	No	Below background	19659	2321	187269	2321	RFC	No	Below background	ATAss-004M	11/8/2004
Semi-volatile Organic Compounds																	
2-Methylnaphthalene	91-57-6	1/ 2	0.0092	0.0092	0.0129	--	Yes	Detected organic	238	30.6	2384	30.6	RFC	No	Below risk screening criteria	ATAss-015M	2/17/2010
Benzo(b)fluoranthene	205-99-2	1/ 2	0.014	0.014	0.0198	--	Yes	Detected organic	0.221	0.65	4.77	0.221	RFA	No	Below risk screening criteria	ATAss-003M	11/8/2004
Bis(2-ethylhexyl)phthalate	117-81-7	1/ 2	0.069	0.069	0.077	--	Yes	Detected organic	--	--	--	35	RSL	No	Below risk screening criteria	ATAss-015M	2/17/2010
Naphthalene	91-20-3	1/ 2	0.012	0.012	0.0143	--	Yes	Detected organic	368	122	1541	122	RFC	No	Below risk screening criteria	ATAss-015M	2/17/2010

[a]Background criteria for 0-1 ft bgs from final facility-wide background values for RVAAP, published in the *Final Phase II Remedial Investigation Report for Winklepeck Burning Grounds at Ravenna Army Ammunition Plant, Ravenna, Ohio* (USACE 2001).

[b]Facility-wide Clean-up Goals (FWCUG) for Resident Farmer Adult (RFA), Resident Farmer Child (RFC), and National Guard Trainee (NGT) from *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010).

[c]Screening Level Source:
NGT = FWCUG for National Guard Trainee
RDA = Concentration associated with recommended daily allowance of essential nutrient
RFA = FWCUG for Resident Farmer Adult
RFC = FWCUG for Resident Farmer Child
RSL = USEPA Residential Regional Screening Level

[d]FWCUG is the most conservative (smallest) of the FWCUGs for hexavalent and trivalent chromium.

bgs = Below ground surface
CAS = Chemical Abstract Service
COPC = Chemical of Potential Concern
HQ = Hazard Quotient
ISM = Incremental Sampling Method
SRC = Site-related Contaminant
USEPA = United States Environmental Protection Agency
-- = No value available
Bold = Chemical is a COPC

Table G-2. SRC and COPC Screening for Deep Surface Soil (1-4 ft bgs Discrete Samples) at Anchor Test Area

Analyte (mg/kg)	CAS Number	Freq of Detect	Minimum Detect	Maximum Detect	Average Result	Background Criteria[a]	SRC? yes/no	SRC Justification	Screening FWCUG[b] (HQ=0.1 or Risk=1E-6) RFA	RFC	NGT	Risk Screening Level	Screening Level Source[c]	COPC? yes/no	COPC Justification	Station at Max Detect	Date Collected at Max Detect
Metals																	
Aluminum	7429-90-5	5/ 5	2100	15800	9550	19500	No	Below background	52923	7380	3496	3496	NGT	No	Below background	ATAsb-011	2/24/2010
Antimony	7440-36-0	5/ 5	0.084	0.11	0.0938	0.96	No	Below background	13.6	2.82	175	2.82	RFC	No	Below background	ATAsb-008	2/24/2010
Arsenic	7440-38-2	5/ 5	6.3	13.3	9.86	19.8	No	Below background	0.425	0.524	2.78	0.425	RFA	No	Below background	ATAsb-010	2/24/2010
Barium	7440-39-3	5/ 5	12.9	104	62	124	No	Below background	8966	1413	351	351	NGT	No	Below background	ATAsb-010	2/24/2010
Beryllium	7440-41-7	5/ 5	0.14	0.81	0.484	0.88	No	Below background	--	--	--	16	RSL	No	Below background	ATAsb-009	2/24/2010
Cadmium	7440-43-9	5/ 5	0.042	0.085	0.067	0	Yes	Exceeds background	22.3	6.41	10.9	6.41	RFC	No	Below risk screening criteria	ATAsb-010	2/24/2010
Calcium	7440-70-2	5/ 5	1280	52100	21400	35500	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-006	2/24/2010
Chromium[d]	7440-47-3	5/ 5	3.6	22.2	13.8	27.2	No	Below background	90.4	19.9	1.64	1.64	NGT	No	Below background	ATAsb-009	2/24/2010
Cobalt	7440-48-4	5/ 5	2.9	13.8	8.46	23.2	No	Below background	803	131	7.03	7.03	NGT	No	Below background	ATAsb-009	2/24/2010
Copper	7440-50-8	5/ 5	9.7	23.1	16.8	32.3	No	Below background	2714	311	25368	311	RFC	No	Below background	ATAsb-010	2/24/2010
Iron	7439-89-6	5/ 5	12000	29700	22300	35200	No	Essential Nutrient	19010	2313	184370	180000	RDA	No	Essential Nutrient	ATAsb-011	2/24/2010
Lead	7439-92-1	5/ 5	5.5	13	9.9	19.1	No	Below background	--	--	--	400	RSL	No	Below background	ATAsb-010	2/24/2010
Magnesium	7439-95-4	5/ 5	2670	7690	4370	8790	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-009	2/24/2010
Manganese	7439-96-5	5/ 5	167	437	336	3030	No	Below background	1482	293	35.1	35.1	NGT	No	Below background	ATAsb-009	2/24/2010
Mercury	7439-97-6	2/ 5	0.033	0.04	0.0486	0.044	No	Below background	16.5	2.27	172	2.27	RFC	No	Below background	ATAsb-011	2/24/2010
Nickel	7440-02-0	5/ 5	7.5	38.6	22.5	60.7	No	Below background	1346	155	12639	155	RFC	No	Below background	ATAsb-010	2/24/2010
Potassium	7440-09-7	5/ 5	287	2460	1140	3350	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-009	2/24/2010
Selenium	7782-49-2	5/ 5	0.57	1.1	0.854	1.5	No	Below background	--	--	--	39	RSL	No	Below background	ATAsb-010	2/24/2010
Silver	7440-22-4	5/ 5	0.013	0.021	0.0176	0	Yes	Exceeds background	324	38.6	3105	38.6	RFC	No	Below risk screening criteria	ATAsb-011	2/24/2010
Sodium	7440-23-5	5/ 5	40	96.4	59.4	145	No	Essential Nutrient				1000000	RDA	No	Essential Nutrient	ATAsb-009	2/24/2010
Thallium	7440-28-0	3/ 5	0.18	0.2	0.154	0.91	No	Below background	4.76	0.612	47.7	0.612	RFC	No	Below background	ATAsb-009	2/24/2010
Vanadium	7440-62-2	5/ 5	4.6	25.2	15.8	37.6	No	Below background	156	44.9	2304	44.9	RFC	No	Below background	ATAsb-009	2/24/2010
Zinc	7440-66-6	5/ 5	32.1	68.8	51.8	93.3	No	Below background	19659	2321	187269	2321	RFC	No	Below background	ATAsb-010	2/24/2010
Volatile Organic Compounds																	
Toluene	108-88-3	1/ 1	0.00043	0.00043	0.00043	--	Yes	Detected organic	--	--	--	500	RSL	No	Below risk screening criteria	ATAsb-008	2/24/2010

[a]Background criteria for >1 ft bgs from final facility-wide background values for RVAAP, published in the *Final Phase II Remedial Investigation Report for Winklepeck Burning Grounds at Ravenna Army Ammunition Plant, Ravenna, Ohio* (USACE 2001).

[b]Facility-wide Clean-up Goals (FWCUG) for Resident Farmer Adult (RFA), Resident Farmer Child (RFC), and National Guard Trainee (NGT) from *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010).

[c]Screening Level Source:
NGT = FWCUG for National Guard Trainee
RDA = Concentration associated with recommended daily allowance of essential nutrient
RFA = FWCUG for Resident Farmer Adult
RFC = FWCUG for Resident Farmer Child
RSL = USEPA Residential Regional Screening Level

[d]FWCUG is the most conservative (smallest) of the FWCUGs for hexavalent and trivalent chromium.

bgs = Below ground surface
CAS = Chemical Abstract Service
COPC = Chemical of Potential Concern
HQ = Hazard Quotient
SRC = Site-related Contaminant
USEPA = United States Environmental Protection Agency
-- = No value available
Bold = Chemical is a COPC

Table G-3. SRC and COPC Screening for National Guard Trainee Subsurface Soil (4-7 ft bgs Discrete Samples) at Anchor Test Area

Analyte (mg/kg)	CAS Number	Freq of Detect	Minimum Detect	Maximum Detect	Average Result	Background Criteria[a]	SRC? yes/no	SRC Justification	Screening FWCUG[b] (HQ=0.1 or Risk=1E-6) RFA	RFC	NGT	Risk Screening Level	Screening Level Source[c]	COPC? yes/no	COPC Justification	Station at Max Detect	Date Collected at Max Detect
Metals																	
Aluminum	7429-90-5	5/ 5	2230	10200	5540	19500	No	Below background	52923	7380	3496	3496	NGT	No	Below background	ATAsb-011	2/24/2010
Antimony	7440-36-0	5/ 5	0.067	0.078	0.0724	0.96	No	Below background	13.6	2.82	175	2.82	RFC	No	Below background	ATAsb-010	2/24/2010
Arsenic	7440-38-2	5/ 5	5.1	10.9	8.16	19.8	No	Below background	0.425	0.524	2.78	0.425	RFA	No	Below background	ATAsb-010	2/24/2010
Barium	7440-39-3	5/ 5	12.5	59	33.3	124	No	Below background	8966	1413	351	351	NGT	No	Below background	ATAsb-011	2/24/2010
Beryllium	7440-41-7	5/ 5	0.15	0.55	0.31	0.88	No	Below background	--	--	--	16	RSL	No	Below background	ATAsb-011	2/24/2010
Cadmium	7440-43-9	5/ 5	0.059	0.082	0.069	0	Yes	Exceeds background	22.3	6.41	10.9	6.41	RFC	No	Below risk screening criteria	ATAsb-010	2/24/2010
Calcium	7440-70-2	5/ 5	15900	45400	27700	35500	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-008	2/24/2010
Chromium[d]	7440-47-3	5/ 5	4.9	16.6	9.58	27.2	No	Below background	90.4	19.9	1.64	1.64	NGT	No	Below background	ATAsb-011	2/24/2010
Cobalt	7440-48-4	5/ 5	2.6	10.4	5.96	23.2	No	Below background	803	131	7.03	7.03	NGT	No	Below background	ATAsb-011	2/24/2010
Copper	7440-50-8	5/ 5	9.1	19.4	14.8	32.3	No	Below background	2714	311	25368	311	RFC	No	Below background	ATAsb-010	2/24/2010
Iron	7439-89-6	5/ 5	11300	24700	17500	35200	No	Essential Nutrient	19010	2313	184370	180000	RDA	No	Essential Nutrient	ATAsb-011	2/24/2010
Lead	7439-92-1	5/ 5	5.6	10.6	8.02	19.1	No	Below background	--	--	--	400	RSL	No	Below background	ATAsb-011	2/24/2010
Magnesium	7439-95-4	5/ 5	4140	19300	8260	8790	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-008	2/24/2010
Manganese	7439-96-5	5/ 5	243	383	302	3030	No	Below background	1482	293	35.1	35.1	NGT	No	Below background	ATAsb-011	2/24/2010
Nickel	7440-02-0	5/ 5	6.6	25.3	14.7	60.7	No	Below background	1346	155	12639	155	RFC	No	Below background	ATAsb-011	2/24/2010
Potassium	7440-09-7	5/ 5	370	1870	995	3350	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-011	2/24/2010
Selenium	7782-49-2	5/ 5	0.39	0.66	0.53	1.5	No	Below background	--	--	--	39	RSL	No	Below background	ATAsb-010	2/24/2010
Silver	7440-22-4	5/ 5	0.011	0.023	0.0174	0	Yes	Exceeds background	324	38.6	3105	38.6	RFC	No	Below risk screening criteria	ATAsb-010	2/24/2010
Sodium	7440-23-5	5/ 5	43.6	91.5	65.4	145	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-011	2/24/2010
Thallium	7440-28-0	4/ 5	0.084	0.18	0.13	0.91	No	Below background	4.76	0.612	47.7	0.612	RFC	No	Below background	ATAsb-011	2/24/2010
Vanadium	7440-62-2	5/ 5	5.2	18.6	10.7	37.6	No	Below background	156	44.9	2304	44.9	RFC	No	Below background	ATAsb-011	2/24/2010
Zinc	7440-66-6	5/ 5	35.1	57.2	49.1	93.3	No	Below background	19659	2321	187269	2321	RFC	No	Below background	ATAsb-010	2/24/2010
Semi-volatile Organic Compounds																	
Bis(2-ethylhexyl)phthalate	117-81-7	1/ 1	0.025	0.025	0.025	--	Yes	Detected organic	--	--	--	35	RSL	No	Below risk screening criteria	ATAsb-008	2/24/2010
Volatile Organic Compounds																	
Methylene chloride	75-09-2	1/ 1	0.0008	0.0008	0.0008	--	Yes	Detected organic	--	--	--	11	RSL	No	Below risk screening criteria	ATAsb-008	2/24/2010
Toluene	108-88-3	1/ 1	0.0005	0.0005	0.0005	--	Yes	Detected organic	--	--	--	500	RSL	No	Below risk screening criteria	ATAsb-008	2/24/2010

[a]Background criteria for >1 ft bgs from final facility-wide background values for RVAAP, published in the *Final Phase II Remedial Investigation Report for Winklepeck Burning Grounds at Ravenna Army Ammunition Plant, Ravenna, Ohio* (USACE 2001).

[b]Facility-wide Clean-up Goals (FWCUG) for Resident Farmer Adult (RFA), Resident Farmer Child (RFC), and National Guard Trainee (NGT) from *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010).

[c]Screening Level Source:
NGT = FWCUG for National Guard Trainee
RDA = Concentration associated with recommended daily allowance of essential nutrient
RFA = FWCUG for Resident Farmer Adult
RFC = FWCUG for Resident Farmer Child
RSL = USEPA Residential Regional Screening Leve

[d]FWCUG is the most conservative (smallest) of the FWCUGs for hexavalent and trivalent chromium.

bgs = Below ground surface
CAS = Chemical Abstract Service
COPC = Chemical of Potential Concern
HQ = Hazard Quotient
SRC = Site-related Contaminant
USEPA = United States Environmental Protection Agency
-- = No value available
Bold = Chemical is a COPC

Table G-4. SRC and COPC Screening for Resident Farmer Subsurface Soil (1-13 ft bgs Discrete Samples) at Anchor Test Area

Analyte (mg/kg)	CAS Number	Freq of Detect	Minimum Detect	Maximum Detect	Average Result	Background Criteria[a]	SRC? yes/no	SRC Justification	Screening FWCUG[b] (HQ=0.1 or Risk=1E-6) RFA	RFC	NGT	Risk Screening Level	Screening Level Source[c]	COPC? yes/no	COPC Justification	Station at Max Detect	Date Collected at Max Detect
Metals																	
Aluminum	7429-90-5	11/ 11	2100	15800	7180	19500	No	Below background	52923	7380	3496	3496	NGT	No	Below background	ATAsb-011	2/24/2010
Antimony	7440-36-0	11/ 11	0.067	0.11	0.0836	0.96	No	Below background	13.6	2.82	175	2.82	RFC	No	Below background	ATAsb-008	2/24/2010
Arsenic	7440-38-2	11/ 11	5.1	13.3	9.22	19.8	No	Below background	0.425	0.524	2.78	0.425	RFA	No	Below background	ATAsb-010	2/24/2010
Barium	7440-39-3	11/ 11	12.5	104	45.5	124	No	Below background	8966	1413	351	351	NGT	No	Below background	ATAsb-010	2/24/2010
Beryllium	7440-41-7	11/ 11	0.14	0.81	0.376	0.88	No	Below background	--	--	--	16	RSL	No	Below background	ATAsb-009	2/24/2010
Cadmium	7440-43-9	11/ 11	0.042	0.086	0.0696	0	Yes	Exceeds background	22.3	6.41	10.9	6.41	RFC	No	Below risk screening criteria	ATAsb-006	2/24/2010
Calcium	7440-70-2	11/ 11	1280	52100	23700	35500	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-006	2/24/2010
Chromium[d]	7440-47-3	11/ 11	3.6	22.2	11.2	27.2	No	Below background	90.4	19.9	1.64	1.64	NGT	No	Below background	ATAsb-009	2/24/2010
Cobalt	7440-48-4	11/ 11	2.6	13.8	7	23.2	No	Below background	803	131	7.03	7.03	NGT	No	Below background	ATAsb-009	2/24/2010
Copper	7440-50-8	11/ 11	9.1	23.1	16.3	32.3	No	Below background	2714	311	25368	311	RFC	No	Below background	ATAsb-010	2/24/2010
Iron	7439-89-6	11/ 11	11300	29700	19600	35200	No	Essential Nutrient	19010	2313	184370	180000	RDA	No	Essential Nutrient	ATAsb-011	2/24/2010
Lead	7439-92-1	11/ 11	5.5	13	9.04	19.1	No	Below background	--	--	--	400	RSL	No	Below background	ATAsb-010	2/24/2010
Magnesium	7439-95-4	11/ 11	2670	19300	6090	8790	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-008	2/24/2010
Manganese	7439-96-5	11/ 11	167	437	316	3030	No	Below background	1482	293	35.1	35.1	NGT	No	Below background	ATAsb-009	2/24/2010
Mercury	7439-97-6	2/ 11	0.033	0.04	0.0539	0.044	No	Below background	16.5	2.27	172	2.27	RFC	No	Below background	ATAsb-011	2/24/2010
Nickel	7440-02-0	11/ 11	6.6	38.6	18	60.7	No	Below background	1346	155	12639	155	RFC	No	Below background	ATAsb-010	2/24/2010
Potassium	7440-09-7	11/ 11	287	2460	1020	3350	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-009	2/24/2010
Selenium	7782-49-2	11/ 11	0.39	1.1	0.682	1.5	No	Below background	--	--	--	39	RSL	No	Below background	ATAsb-010	2/24/2010
Silver	7440-22-4	10/ 11	0.011	0.023	0.0167	0	Yes	Exceeds background	324	38.6	3105	38.6	RFC	No	Below risk screening criteria	ATAsb-010	2/24/2010
Sodium	7440-23-5	11/ 11	40	96.4	60.6	145	No	Essential Nutrient	--	--	--	1000000	RDA	No	Essential Nutrient	ATAsb-009	2/24/2010
Thallium	7440-28-0	8/ 11	0.084	0.2	0.141	0.91	No	Below background	4.76	0.612	47.7	0.612	RFC	No	Below background	ATAsb-009	2/24/2010
Vanadium	7440-62-2	11/ 11	4.6	25.2	12.7	37.6	No	Below background	156	44.9	2304	44.9	RFC	No	Below background	ATAsb-009	2/24/2010
Zinc	7440-66-6	11/ 11	32.1	68.8	51.5	93.3	No	Below background	19659	2321	187269	2321	RFC	No	Below background	ATAsb-010	2/24/2010
Semi-volatile Organic Compounds																	
Bis(2-ethylhexyl)phthalate	117-81-7	1/ 2	0.025	0.025	0.1	--	Yes	Detected organic	--	--	--	35	RSL	No	Below risk screening criteria	ATAsb-008	2/24/2010
Volatile Organic Compounds																	
Methylene chloride	75-09-2	1/ 2	0.0008	0.0008	0.00173	--	Yes	Detected organic	--	--	--	11	RSL	No	Below risk screening criteria	ATAsb-008	2/24/2010
Toluene	108-88-3	2/ 2	0.00043	0.0005	0.000465	--	Yes	Detected organic	--	--	--	500	RSL	No	Below risk screening criteria	ATAsb-008	2/24/2010

[a]Background criteria for >1 ft bgs from final facility-wide background values for RVAAP, published in the *Final Phase II Remedial Investigation Report for Winklepeck Burning Grounds at Ravenna Army Ammunition Plant, Ravenna, Ohio* (USACE 2001).

[b]Facility-wide Clean-up Goals (FWCUG) for Resident Farmer Adult (RFA), Resident Farmer Child (RFC), and National Guard Trainee (NGT) from *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010).

[c]Screening Level Source:
NGT = FWCUG for National Guard Trainee
RDA = Concentration associated with recommended daily allowance of essential nutrient
RFA = FWCUG for Resident Farmer Adult
RFC = FWCUG for Resident Farmer Child
RSL = USEPA Residential Regional Screening Leve

[d]FWCUG is the most conservative (smallest) of the FWCUGs for hexavalent and trivalent chromiun

bgs = Below ground surface
CAS = Chemical Abstract Service
COPC = Chemical of Potential Concern
HQ = Hazard Quotient
SRC = Site-related Contaminant
USEPA = United States Environmental Protection Agency
-- = No value available
Bold = Chemical is a COPC

Table G-5. Exposure Factors Used to Calculate FWCUGs

Parameter	Unit	Exposure Factors[a]		
			Resident Farmer	
		National Guard Trainee	Adult	Child
Surface Soil				
Incidental ingestion				
Soil ingestion rate	kg/day	0.0001	0.0001	0.0002
Exposure time	hr/day	24	24	24
Exposure frequency	days/year	39	350	350
Exposure duration	years	25	30	6
Body weight	kg	70	70	15
Carcinogen averaging time	days	25,550	25,550	25,550
Non-carcinogen averaging time	days	9125	10,950	2190
Fraction ingested	unitless	1	1	1
Conversion factor	days/hr	0.042	0.042	0.042
Dermal contact				
Skin area	m^2/event	0.33	0.57	0.22
Adherence factor	mg/cm^2	0.3	0.4	0.2
Absorption fraction	unitless	chemical specific	chemical specific	chemical specific
Exposure frequency	days/year	39	350	350
Exposure duration	years	25	30	6
Body weight	kg	70	70	15
Carcinogen averaging time	days	25,550	25,550	25,550
Non-carcinogen averaging time	days	9125	10,950	2190
Conversion factor	(kg-cm^2)/ (mg-m^2)	0.01	0.01	0.01
Inhalation of VOCs and dust				
Inhalation rate	m^3/day	0.0001	0.0001	0.0002
Exposure time	hr/day	24	24	24
Exposure frequency	days/year	39	350	350
Precipitation modifying factor	unitless	NA	NA	NA
Exposure duration	years	25	30	6
Body weight	kg	70	70	15
Carcinogen averaging time	days	25,550	25,550	25,550
Non-carcinogen averaging time	days	9125	10,950	2190
Particulate emission factor	m^3/day	1.67E+06	9.24E+08	9.24E+08
Conversion factor	days/hr	0.042	0.042	0.042

Table G-5. Exposure Factors for Receptors Used to Calculate FWCUGs (continued)

Parameter	Unit	Exposure Factors[a]		
			Resident Farmer	
		National Guard Trainee	Adult	Child
Subsurface Soil				
Incidental ingestion				
Soil ingestion rate	kg/day	0.0001	0.0001	0.0002
Exposure time	hr/day	24	24	24
Exposure frequency	days/year	39	350	350
Exposure duration	years	25	30	6
Body weight	kg	70	70	15
Carcinogen averaging time	days	25,550	25,550	25,550
Non-carcinogen averaging time	days	9125	10,950	2190
Fraction ingested	unitless	1	1	1
Conversion factor	days/hr	0.042	0.042	0.042
Dermal contact				
Skin area	m^2/event	0.33	0.57	0.22
Adherence factor	mg/cm^2	0.3	0.4	0.2
Absorption fraction	unitless	chemical specific	chemical specific	chemical specific
Exposure frequency	days/year	39	350	350
Exposure duration	years	25	30	6
Body weight	kg	70	70	15
Carcinogen averaging time	days	25,550	25,550	25,550
Non-carcinogen averaging time	days	9125	10,950	2190
Conversion factor	(kg-cm^2)/ (mg-m^2)	0.01	0.01	0.01
Inhalation of VOCs and dust				
Inhalation rate	m^3/day	44.4	20	10
Exposure time	hr/day	24	24	24
Exposure frequency	days/year	39	350	350
Exposure duration	years	25	30	6
Body weight	kg	70	70	15
Carcinogen averaging time	days	25,550	25,550	25,550
Non-carcinogen averaging time	days	9125	10,950	2190
Particulate emission factor	m^3/day	1.67E+06	9.24E+08	9.24E+08
Conversion factor	days/hr	0.042	0.042	0.042

[a]All parameters from Table 3-2 of *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010).

FWCUG = Facility-Wide Cleanup Goal

VOC = Volatile Organic Compound

Table G-6. COC Screening for Shallow Surface Soil (0-1 ft bgs ISM Samples) at Anchor Test Area
Representative Receptor: National Guard Trainee

		Analyte (mg/kg)		Arsenic	Chromium[d]	Cobalt	Manganese
		CAS Number		7440-38-2	7440-47-3	7440-48-4	7439-96-5
		National Guard Trainee FWCUG[a]:					
		HQ=1		1140	1,000,000	140	351
		Risk=1E-5		27.8	16.4	70.3	--
		Background Criteria[b]		15.4	17.4	10.4	1450
		Precedent CUG[c]		31	--	--	1800
Sample ID	Date	Depth (ft)	Station	Result Exceeds FWCUG?/COC?	Result Exceeds FWCUG?/COC?	Result Exceeds FWCUG?/COC?	Result Exceeds FWCUG?/COC?
ATAss-001M-SO	**11/08/04**	**0.0 - 1.0**	**ATAss-001M**	8.2 No/No	21 No/No	8.1 No/No	**1500 Yes/No[e]**
ATAss-002M-SO	11/08/04	0.0 - 1.0	ATAss-002M	7.5 No/No	36 No/No	3.6 No/No	330 No/No
ATAss-003M-SO	11/08/04	0.0 - 1.0	ATAss-003M	10 No/No	19 No/No	8 No/No	420 No/No
ATAss-004M-SO	11/08/04	0.0 - 1.0	ATAss-004M	8.9 No/No	16 No/No	7.4 No/No	860 No/No
ATAss-005M-SO	**11/08/04**	**0.0 - 1.0**	**ATAss-005M**	**54 Yes/Yes**	19 No/No	8.5 No/No	860 No/No
ATAss-015M-5036-SO	02/17/10	0.0 - 1.0	ATAss-015M	12 No/No	42.3 No/No	9 No/No	418 No/No
ATAss-016M-5037-SO	02/17/10	0.0 - 1.0	ATAss-016M	10 No/No	25.2 No/No	10.6 No/No	1260 No/No

[a]Facility-wide Clean-up Goals (FWCUG) for National Guard Trainee from *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010).

[b]Background criteria are final facility-wide background values for RVAAP, published in the *Final Phase II Remedial Investigation Report for Winklepeck Burning Grounds at Ravenna Army Ammunition Plant, Ravenna, Ohio* (USACE 2001).

[c] Precedent cleanup goal (CUG) from Table 5-12 of *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010).

[d]Based on the lines of evidence presented in Section 7.2.4.1, chromium speciation results indicate most or all of the chromium present is not in the hexavalent form; the concentration of total chromium detected is compared to the FWCUG for trivalent chromium.

[e]Reported concentration is < precedent CUG from Table 5-12 of *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010).

bgs = Below ground surface

CAS = Chemical Abstract Service

COC = Chemical of Concern

HQ = Hazard Quotient

ISM = Incremental Sampling Method

NA = not available

Bold = Concentration exceeds FWCUG for this sample

Table G-7. Sum-of-Ratios for Carcinogens
COC Screening for Shallow Surface Soil (0-1 ft bgs ISM Samples) at Anchor Test Area
Representative Receptor: National Guard Trainee

		Analyte (mg/kg)		Arsenic		Cobalt		
		CAS Number		7440-38-2		7440-48-4		
		National Guard Trainee FWCUG[a]:						
		Risk=1E-5		27.8		70.3		
		Background Criteria[b]		15.4		10.4		
Sample ID	Date	Depth (ft)	Station	Result	Ratio	Result	Ratio	SOR
ATAss-001M-SO	11/08/04	0.0 - 1.0	ATAss-001M	8.2	3.E-01	8.1	1.E-01	4.E-01
ATAss-002M-SO	11/08/04	0.0 - 1.0	ATAss-002M	7.5	3.E-01	3.6	5.E-02	3.E-01
ATAss-003M-SO	11/08/04	0.0 - 1.0	ATAss-003M	10	4.E-01	8	1.E-01	5.E-01
ATAss-004M-SO	11/08/04	0.0 - 1.0	ATAss-004M	8.9	3.E-01	7.4	1.E-01	4.E-01
ATAss-005M-SO	11/08/04	0.0 - 1.0	ATAss-005M	54	NA	8.5	1.E-01	1.E-01
ATAss-015M-5036-SO	02/17/10	0.0 - 1.0	ATAss-015M	12	4.E-01	9	1.E-01	6.E-01
ATAss-016M-5037-SO	02/17/10	0.0 - 1.0	ATAss-016M	10	4.E-01	10.6	2.E-01	5.E-01

[a]Facility-wide Clean-up Goals (FWCUG) for National Guard Trainee from *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010).

[b]Background criteria are final facility-wide background values for RVAAP, published in the *Final Phase II Remedial Investigation Report for Winklepeck Burning Grounds at Ravenna Army Ammunition Plant, Ravenna, Ohio* (USACE 2001).

bgs = Below ground surface
CAS = Chemical Abstract Service
COC = Chemical of Concern
ISM = Incremental Sampling Method
NA = Not Applicable
SOR = Sum-of-ratios

Table G-8. COC Screening for Shallow Surface Soil (0-1 ft bgs ISM Samples) at Anchor Test Area
Unrestricted Land Use Receptor: Resident Farmer

		Analyte (mg/kg)		**Arsenic**	**Chromium[d]**	**Cobalt**	**Manganese**
		CAS Number		**7440-38-2**	**7440-47-3**	**7440-48-4**	**7439-96-5**
		Resident Farmer FWCUG[a]:					
		HQ=1		**20.2 RFC**	**81,473 RFC**	**1313 RFC**	**2927 RFC**
		Risk=1E-5		**4.25 RFA**	**NA RFA**	**8030 RFA**	**--**
		Background Criteria[b]		**15.4**	**17.4**	**10.4**	**1450**
		Precedent CUG[c]		**31**	--	--	**1800**
Sample ID	**Date**	**Depth (ft)**	**Station**	**Result Exceeds FWCUG?/COC?**	**Result Exceeds FWCUG?/COC?**	**Result Exceeds FWCUG?/COC?**	**Result Exceeds FWCUG?/COC?**
ATAss-001M-SO	11/08/04	0.0 - 1.0	ATAss-001M	8.2 No/No	21 No/No	8.1 No/No	1500 No/No
ATAss-002M-SO	11/08/04	0.0 - 1.0	ATAss-002M	7.5 No/No	36 No/No	3.6 No/No	330 No/No
ATAss-003M-SO	11/08/04	0.0 - 1.0	ATAss-003M	10 No/No	19 No/No	8 No/No	420 No/No
ATAss-004M-SO	11/08/04	0.0 - 1.0	ATAss-004M	8.9 No/No	16 No/No	7.4 No/No	860 No/No
ATAss-005M-SO	**11/08/04**	**0.0 - 1.0**	**ATAss-005M**	**54 Yes/Yes**	19 No/No	8.5 No/No	860 No/No
ATAss-015M-5036-SO	02/17/10	0.0 - 1.0	ATAss-015M	12 No/No	42.3 No/No	9 No/No	418 No/No
ATAss-016M-5037-SO	02/17/10	0.0 - 1.0	ATAss-016M	10 No/No	25.2 No/No	10.6 No/No	1260 No/No

[a]Facility-wide Clean-up Goals (FWCUG) for Resident Farmer Adult (RFA) and Resident Farmer Child (RFC) from *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010). The lower of the two values for the RFA and RFC are presented as identified.

[b]Background criteria are final facility-wide background values for RVAAP, published in the *Final Phase II Remedial Investigation Report for Winklepeck Burning Grounds at Ravenna Army Ammunition Plant, Ravenna, Ohio* (USACE 2001).

[c]Precedent cleanup goal (CUG) from Table 5-12 of *Facility-Wide Human Health Cleanup Goals for the Ravenna Army Ammunition Plant* (USACE 2010).

[d]Based on the lines of evidence presented in Section 7.2.4.1, chromium speciation results indicate most or all of the chromium present is not in the hexavalent form; the concentration of total chromium detected is compared to the FWCUG for trivalent chromium.

bgs = Below ground surface
CAS = Chemical Abstract Service
COC = Chemical of Concern
HQ = Hazard Quotient
ISM = Incremental Sampling Method
NA = Not Applicable
Bold = Concentration exceeds FWCUG for this sample

APPENDIX H

Ecological Risk Assessment Information and Data

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ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
ASL	Above Screening Level
bgs	Below Ground Surface
BLBKG	Below Background Concentration
BRAC	Base Realignment and Closure
BSL	Below Screening Level
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPC	Chemical of Potential Concern
COPEC	Chemical of Potential Ecological Concern
DOE	United States Department of Energy
DOW	Department of Wildlife
EcoSSL	Ecological Soil Screening Level
EDQL	Ecological Data Quality Level
ERA	Ecological Risk Assessment
ESL	Ecological Screening Level
ESV	Ecological Screening Value
GIS	Geographic Information System
HTRW	Hazardous, Toxic and Radioactive Waste
INRMP	Integrated Natural Resources Management Plan
ISM	Incremental Sampling Methodology
MKM	MKM Engineers, Inc.
NSL	No Screening Level
NUT	Nutrient
OAC	Ohio Administrative Code
ODNR	Ohio Department of Natural Resources
Ohio EPA	Ohio Environmental Protection Agency
OHARNG	Ohio Army National Guard
PBT	Persistent, Bioaccumulative, and Toxic
PLS	Planning Level Survey
PRG	Preliminary Remediation Goal
RCRA	Resource Conservation and Recovery Act
RVAAP	Ravenna Army Ammunition Plant
SRC	Site-Related Contaminant
T&E	Threatened and Endangered Species
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service

Photograph H-1. Green Ash, American Elm, and Hackberry Forest Alliance in Winter at Anchor Test Area
(photograph taken November 26, 2008)

Table H-1. Historical ERA Findings (Characterization of 14 AOCs, MKM 2007) for Soil

Table ATA-8

Anchor Test Area Ecological Risk Screening Tables for Shallow Soil (0-1 ft)

RVAAP 14 AOC Characterization

Ravenna Army Ammunition Plant, Ravenna, Ohio

Group	Parameter	Frequency of Detection	Average Concentration	Maximum Detected Concentration	Units	Surface Soil Background Concentration	Maximum Concentration > Background	Screening Value	Maximum Concentration > Screening value	PBT	COPC	COPC Rationale
Metals	Aluminum	6 / 6	10167	13000	mg/kg	17700	No	600 ss2	Yes	No	No	BLBKG
	Arsenic	6 / 6	16	54	mg/kg	15.4	Yes	9.9 ss1	Yes	No	Yes	ASL
	Barium	6 / 6	82	130	mg/kg	88.4	Yes	283 ss1	No	No	No	BSL
	Beryllium	6 / 6	0.79	1.2	mg/kg	0.88	Yes	10 ss1	No	No	No	BSL
	Cadmium	3 / 6	0.12	0.18	mg/kg	0.00	Yes	4 ss1	No	No	No	BSL
	Calcium	6 / 6	12133	18000	mg/kg	15800	Yes	NUT	No	No	No	BSL
	Chromium	6 / 6	22	36	mg/kg	17.4	Yes	0.4 ss1	Yes	No	Yes	ASL
	Cobalt	6 / 6	7.3	8.5	mg/kg	10.4	No	20 ss1	No	No	No	BLBKG
	Copper	6 / 6	12	15	mg/kg	17.7	No	60 ss1	No	No	No	BLBKG
	Iron	6 / 6	17000	22000	mg/kg	23100	No	200 ss2	Yes	No	No	BLBKG
	Lead	6 / 6	17	23	mg/kg	26.1	No	40.5 ss1	No	No	No	BLBKG
	Magnesium	6 / 6	3200	3900	mg/kg	3030	Yes	NUT	No	No	No	BSL
	Manganese	6 / 6	912	1500	mg/kg	1450	Yes	100 ss2	Yes	No	Yes	ASL
	Nickel	6 / 6	16	18	mg/kg	21.1	No	30 ss1	No	No	No	BLBKG
	Potassium	6 / 6	910	1100	mg/kg	927	Yes	NUT	No	No	No	BSL
	Selenium	6 / 6	0.80	1.2	mg/kg	1.4	No	0.21 ss1	Yes	No	No	BLBKG
	Silver	0 / 6	0.48		mg/kg	0.00		2 ss1		No		
	Sodium	5 / 6	232	310	mg/kg	123	Yes	NUT	No	No	No	BSL
	Vanadium	6 / 6	17	24	mg/kg	31.1	No	2 ss1	Yes	No	No	BLBKG
	Zinc	6 / 6	55	57	mg/kg	61.8	No	8.5 ss1	Yes	No	No	BLBKG
	Antimony	1 / 6	0.67	0.59	mg/kg	0.96	No	5 ss1	No	No	No	BLBKG
	Mercury	5 / 6	0.042	0.06	mg/kg	0.04	Yes	0.00051 ss1	Yes	Yes	Yes	ASL
	Thallium	2 / 6	0.26	0.22	mg/kg	0.00	Yes	1 ss1	No	No	No	BSL
SVOCs	Benzo(b)fluoranthene	1 / 1	0.014	0.014	mg/kg	--	NA	59.8 ss4	No	No	No	BSL

Notes:

ss1 - Preliminary Remediation Goals (Efroymson et al , 1997a)

ss2 - Toxiclogolgical Benchmarks for Soil and Litter Invertebrates (Efrymonson et al 1997b)

ss3 - Toxiclogolgical Benchmarks for Terrestrial Plants (Efrymonson et al 1997c)

ss4- Ecological Data Quality Level (USEPA Region 5, 1999)

-- - no value available

NA - not applicable

NUT - nutrient

BLBKG - below background concentration

PBT- persistent, bioaccumulative and toxic

NSL - no screening level

ASL- above screening level

BSL - below screening level

AOC = Area of Concern

COPC = Chemical of Potential Concern

ERA = Ecological Risk Assessment

Table H-2. ESV for Chemical Analytes in Soil

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
Metals									
Aluminum	7429-90-5	--*	Al EcoSSL	50	PRGs[b]	--	--	50	PRGs
Antimony	7440-36-0	0.27	mammalian EcoSSL for Sb	5	PRGs	0.142	USEPA Reg 5	2.70E-01	mammalian EcoSSL for Sb
Arsenic	7440-38-2	18	plant EcoSSL for As	9.9	PRGs	5.7	USEPA Reg 5	1.80E+01	plant EcoSSL for As
Barium	7440-39-3	330	soil invert EcoSSL for Ba	283	PRGs	1.04	USEPA Reg 5	3.30E+02	soil invert EcoSSL for Ba
Beryllium	7440-41-7	21	mammalian EcoSSL for Be	10	PRGs	1.06	USEPA Reg 5	2.10E+01	mammalian EcoSSL for Be
Bismuth	7440-69-9	--	--	--	--	--	--	No ESV	No Source
Boron	7440-42-8	--	--	0.5	PRGs	--	--	5.00E-01	PRGs
Bromine	7726-95-6	--	--	10	PRGs	--	--	1.00E+01	PRGs
Cadmium	7440-43-9	0.36	mammalian EcoSSL for Cd	4	PRGs	0.00222	USEPA Reg 5	3.60E-01	mammalian EcoSSL for Cd
Calcium	7440-70-2	--	--	--	--	--	--	No ESV	No Source
Chromium	16065-83-1	26	avian EcoSSL for Cr III	0.4	PRGs	0.4	ESL for Cr+3	2.60E+01	avian EcoSSL for Cr III
Chromium, hexavalent	18540-29-9	130	mammalian EcoSSL for Cr VI	--	--	--	--	1.30E+02	mammalian EcoSSL for Cr VI

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
Cobalt	7440-48-4	13	plant EcoSSL for Co	20	PRGs	0.14	USEPA Reg 5	1.30E+01	plant EcoSSL for Co
Copper	7440-50-8	28	avian EcoSSL for Cu	60	PRGs	5.4	USEPA Reg 5	2.80E+01	avian EcoSSL for Cu
Cyanide	57-12-5	--	--	--	--	1.33	USEPA Reg 5	1.33E+00	USEPA Reg 5
Fluorine	7782-41-4	--	--	200	PRGs	--	--	2.00E+02	PRGs
Iodine	7553-56-2	--	--	4	PRGs	--	--	4.00E+00	PRGs
Iron	7439-89-6	--**	Fe EcoSSL	--	--	--	--	No ESV	No Source
Lanthanum	7439-91-0	--	--	--	--	--	--	No ESV	No Source
Lead	7439-92-1	11	avian EcoSSL for Pb	40.5	PRGs	0.0537	USEPA Reg 5	1.10E+01	avian EcoSSL for Pb
Lithium	7439-93-2	--	--	2	PRGs	--	--	2.00E+00	PRGs
Magnesium	7439-95-4	--	--	--	--	--	--	No ESV	No Source
Manganese	7439-96-5	220	plant EcoSSL for Mn	500	PRGs[b]	--	--	2.20E+02	plant EcoSSL for Mn
Mercury	7439-97-6	--	--	0.00051	PRGs	0.1	USEPA Reg 5	5.10E-04	PRGs
Mercury, methyl	22967-92-6	--	--	--	--	0.00158	USEPA Reg 5	1.58E-03	USEPA Reg 5
Molybdenum	7439-98-7	--	--	2	PRGs	--	--	2.00E+00	PRGs
Nickel	7440-02-0	38	plant EcoSSL for Ni	30	PRGs	13.6	USEPA Reg 5	3.80E+01	plant EcoSSL for Ni
Potassium	7440-09-7	--	--	--	--	--	--	No ESV	No Source
Selenium	7782-49-2	0.52	plant EcoSSL for Se	0.21	PRGs	0.0276	USEPA Reg 5	5.20E-01	plant EcoSSL for Se

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
Silver	7440-22-4	4.2	avian EcoSSL for Ag	2	PRGs	4.04	USEPA Reg 5	4.20E+00	avian EcoSSL for Ag
Sodium	7440-23-5	--	--	--	--	--	--	No ESV	No Source
Technetium	7440-26-8	--	--	0.2	PRGs	--	--	2.00E-01	PRGs
Tellurium	13494-80-9	--	--	--	--	--	--	No ESV	No Source
Thallium	7440-28-0	--	--	1	PRGs	0.0569	USEPA Reg 5	1.00E+00	PRGs
Tin	7440-31-5	--	--	50	PRGs	7.62	USEPA Reg 5	5.00E+01	PRGs
Titanium	7440-32-6	--	--	--	--	--	--	No ESV	No Source
Tungsten	7440-33-7	--	--	--	--	--	--	No ESV	No Source
Uranium	7440-61-1	--	--	5	PRGs	--	--	5.00E+00	PRGs
Vanadium	7440-62-2	7.8	avian EcoSSL for V	2	PRGs	1.59	USEPA Reg 5	7.80E+00	avian EcoSSL for V
Zinc	7440-66-6	46	avian EcoSSL for Zn	8.5	PRGs	6.62	USEPA Reg 5	4.60E+01	avian EcoSSL for Zn
Anions									
Nitrate	14797-55-8	--	--	--	--	--	--	No ESV	No Source
Sulfide	18496-25-8	--	--	--	--	0.00358	USEPA Reg 5	3.58E-03	USEPA Reg 5
Organic Compounds									
Acenaphthene	83-32-9	--	--	20	PRGs	682	USEPA Reg 5	2.00E+01	PRGs
Acenaphthylene	208-96-8	--	--	--	--	682	USEPA Reg 5	6.82E+02	USEPA Reg 5
Acetone	67-64-1	--	--	--	--	2.5	USEPA Reg 5	2.50E+00	USEPA Reg 5
Acetonitrile	75-05-8	--	--	--	--	1.37	USEPA Reg 5	1.37E+00	USEPA Reg 5

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
Acetophenone	98-86-2	--	--	--	--	300	USEPA Reg 5	3.00E+02	USEPA Reg 5
Acetylaminofluorene[2-]	53-96-3	--	--	--	--	0.596	USEPA Reg 5	5.96E-01	USEPA Reg 5
Acrolein	107-02-8	--	--	--	--	5.27	USEPA Reg 5	5.27E+00	USEPA Reg 5
Acrylonitrile	107-13-1	--	--	--	--	0.0239	USEPA Reg 5	2.39E-02	USEPA Reg 5
Aldrin	309-00-2	--	--	--	--	0.00332	USEPA Reg 5	3.32E-03	USEPA Reg 5
2-Amino-4,6-dinitrotoluene	35572-78-2	--	--	--	--	--	--	No ESV	No Source
4-Amino-2,6-dinitrotoluene	19406-51-0	--	--	--	--	--	--	No ESV	No Source
4-Aminobiphenyl	92-67-1	--	--	--	--	0.00305	USEPA Reg 5	3.05E-03	USEPA Reg 5
Aniline	62-53-3	--	--	--	--	0.0568	USEPA Reg 5	5.68E-02	USEPA Reg 5
Anthracene	120-12-7	--	--	--	--	1480	USEPA Reg 5	1.48E+03	USEPA Reg 5
Aramite	140-57-8	--	--	--	--	166	USEPA Reg 5	1.66E+02	USEPA Reg 5
Azobenzene [p-(dimethylamino)]	60-11-7	--	--	--	--	0.04	USEPA Reg 5	4.00E-02	USEPA Reg 5
PCB-1016	12674-11-2	--	--	--	--	--	--	No ESV	No Source
Arochlor-1221	11104-28-2	--	--	--	--	--	--	No ESV	No Source
Arochlor-1232	11141-16-5	--	--	--	--	--	--	No ESV	No Source
Arochlor-1242	53469-21-9	--	--	--	--	--	--	No ESV	No Source
Arochlor-1248	12672-29-6	--	--	--	--	--	--	No ESV	No Source
PCB-1254	11097-69-1	--	--	--	--	--	--	No ESV	No Source
PCB-1260	11096-82-5	--	--	--	--	--	--	No ESV	No Source
Benzene	71-43-2	--	--	--	--	0.255	USEPA Reg 5	2.55E-01	USEPA Reg 5
Benzenemethanol	100-51-6	--	--	--	--	65.8	USEPA Reg 5	6.58E+01	USEPA Reg 5

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
Benz(a)anthracene	56-55-3	--	--	--	--	5.21	USEPA Reg 5	5.21E+00	USEPA Reg 5
Benzo(a)pyrene	50-32-8	--	--	--	--	1.52	USEPA Reg 5	1.52E+00	USEPA Reg 5
Benzo(b)fluoranthene	205-99-2	--	--	--	--	59.8	USEPA Reg 5	5.98E+01	USEPA Reg 5
Benzo(ghi)perylene	191-24-2	--	--	--	--	119	USEPA Reg 5	1.19E+02	USEPA Reg 5
Benzo(k)fluoranthene	207-08-9	--	--	--	--	148	USEPA Reg 5	1.48E+02	USEPA Reg 5
BHC	608-73-1	--	--	--	--	--	--	No ESV	No Source
BHC, alpha	319-84-6	--	--	--	--	0.0994	USEPA Reg 5	9.94E-02	USEPA Reg 5
BHC, beta	319-85-7	--	--	--	--	0.00398	USEPA Reg 5	3.98E-03	USEPA Reg 5
BHC, delta	319-86-8	--	--	--	--	9.94	USEPA Reg 5	9.94E+00	USEPA Reg 5
BHC, gamma (Lindane)	58-89-9	--	--	--	--	0.005	USEPA Reg 5	5.00E-03	USEPA Reg 5
Biphenyl	92-52-4	--	--	60	PRGs	--	--	6.00E+01	PRGs
bis(2-chloroethoxy) methane	111-91-1	--	--	--	--	0.302	USEPA Reg 5	3.02E-01	USEPA Reg 5
bis(2-Chloroethyl) ether	111-44-4	--	--	--	--	23.7	USEPA Reg 5	2.37E+01	USEPA Reg 5
bis(2-Ethylhexyl)phthalate	117-81-7	--	--	--	--	0.925	USEPA Reg 5	9.25E-01	USEPA Reg 5
4-Bromoaniline	106-40-1	--	--	--	--	--	--	No ESV	No Source
Bromodichloromethane	75-27-4	--	--	--	--	0.54	USEPA Reg 5	5.40E-01	USEPA Reg 5
Bromoform	75-25-2	--	--	--	--	15.9	USEPA Reg 5	1.59E+01	USEPA Reg 5
Bromomethane	74-83-9	--	--	--	--	0.235	USEPA Reg 5	2.35E-01	USEPA Reg 5
4-bromophenyl-phenylether	101-55-3	--	--	--	--	--	--	No ESV	No Source
2-Butanone	78-93-3	--	--	--	--	89.6	USEPA Reg 5	8.96E+01	USEPA Reg 5
Butylbenzyl phthalate	85-68-7	--	--	--	--	0.239	USEPA Reg 5	2.39E-01	USEPA Reg 5

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
N-Nitrosodi-n-Butylamine	924-16-3	--	--	--	--	0.267	USEPA Reg 5	2.67E-01	USEPA Reg 5
Carbazole	86-74-8	--	--	--	--	--	--	No ESV	No Source
Carbon disulfide	75-15-0	--	--	--	--	0.0941	USEPA Reg 5	9.41E-02	USEPA Reg 5
Carbon tetrachloride	56-23-5	--	--	--	--	2.98	USEPA Reg 5	2.98E+00	USEPA Reg 5
Chlordane	12789-03-6	--	--	--	--	0.224	USEPA Reg 5	2.24E-01	USEPA Reg 5
alpha-Chlordane	12789-03-6	--	--	--	--	0.224	USEPA Reg 5	2.24E-01	USEPA Reg 5
gamma-Chlordane	12789-03-6	--	--	--	--	0.224	USEPA Reg 5	2.24E-01	USEPA Reg 5
Chloroacetamide	79-07-2	--	--	2	PRGs[c]	--	--	2.00E+00	PRGs
3-Chloroaniline	108-42-9	--	--	20	PRGs	--	--	2.00E+01	PRGs
4-Chloroaniline	106-47-8	--	--	--	--	1.1	USEPA Reg 5	1.10E+00	USEPA Reg 5
Chlorobenzene	108-90-7	--	--	40	PRGs	13.1	USEPA Reg 5	4.00E+01	PRGs
Chlorobenzilate	510-15-6	--	--	--	--	5.05	USEPA Reg 5	5.05E+00	USEPA Reg 5
Chloroethane	75-00-3	--	--	--	--	--	--	No ESV	No Source
Chloroform	67-66-3	--	--	--	--	1.19	USEPA Reg 5	1.19E+00	USEPA Reg 5
Chloromethane	74-87-3	--	--	--	--	10.4	USEPA Reg 5	1.04E+01	USEPA Reg 5
2-Chloronaphthalene	91-58-7	--	--	--	--	0.0122	USEPA Reg 5	1.22E-02	USEPA Reg 5
2-Chlorophenol	95-57-8	--	--	--	--	0.243	USEPA Reg 5	2.43E-01	USEPA Reg 5
3-Chlorophenol	108-43-0	--	--	7	PRGs	--	--	7.00E+00	PRGs
4-Chlorophenol	106-48-9	--	--	--	--	--	--	No ESV	No Source
4-Chlorophenyl-phenyl ether	7005-72-3	--	--	--	--	--	--	No ESV	No Source
4-chloro-3-methylphenol	59-50-7	--	--	--	--	7.95	USEPA Reg 5	7.95E+00	USEPA Reg 5
Chloropropene	107-05-1	--	--	--	--	0.0134	USEPA Reg 5	1.34E-02	USEPA Reg 5

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
Chloroprene	126-99-8	--	--	--	--	0.0029	USEPA Reg 5	2.90E-03	USEPA Reg 5
Chrysene	218-01-9	--	--	--	--	4.73	USEPA Reg 5	4.73E+00	USEPA Reg 5
m-Cresol	108-39-4	--	--	--	--	3.49	USEPA Reg 5	3.49E+00	USEPA Reg 5
2,4-D	94-75-7	--	--	--	--	0.0272	USEPA Reg 5	2.72E-02	USEPA Reg 5
4,4'-DDD	72-54-8	0.021	mammalian EcoSSL for DDT and metabolites	--	--	0.758	USEPA Reg 5	2.10E-02	mammalian EcoSSL for DDT and metabolites
4,4'-DDE	72-55-9	0.021	mammalian EcoSSL for DDT and metabolites	--	--	0.596	USEPA Reg 5	2.10E-02	mammalian EcoSSL for DDT and metabolites
4,4'-DDT	50-29-3	0.021	mammalian EcoSSL for DDT and metabolites	--	--	0.0035	USEPA Reg 5	2.10E-02	mammalian EcoSSL for DDT and metabolites
Diallate	2303-16-4	--	--	--	--	0.452	USEPA Reg 5	4.52E-01	USEPA Reg 5
Diazinon	333-41-5	--	--	--	--	--	--	No ESV	No Source
Dibenz(a,h)anthracene	53-70-3	--	--	--	--	18.4	USEPA Reg 5	1.84E+01	USEPA Reg 5
Dibenzofuran	132-64-9	--	--	--	--	--	--	No ESV	No Source
1,2-Dibromo-3-Chloropropane	96-12-8	--	--	--	--	0.0352	USEPA Reg 5	3.52E-02	USEPA Reg 5
Dibromochloromethane	124-48-1	--	--	--	--	2.05	USEPA Reg 5	2.05E+00	USEPA Reg 5
Dibromoethane	106-93-4	--	--	--	--	1.23	USEPA Reg 5	1.23E+00	USEPA Reg 5
2,4-Dichloroaniline	554-00-7	--	--	100	PRGs[c]	--	--	1.00E+02	PRGs
3,4-Dichloroaniline	95-76-1	--	--	20	PRGs[c]	--	--	2.00E+01	PRGs

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
1,2-Dichlorobenzene	95-50-1	--	--	--	--	2.96	USEPA Reg 5	2.96E+00	USEPA Reg 5
1,3-Dichlorobenzene	541-73-1	--	--	--	--	37.7	USEPA Reg 5	3.77E+01	USEPA Reg 5
1,4-Dichlorobenzene	106-46-7	--	--	20	PRGs	0.546	USEPA Reg 5	2.00E+01	PRGs
3,3'-Dichlorobenzidine	91-94-1	--	--	--	--	0.646	USEPA Reg 5	6.46E-01	USEPA Reg 5
Cis-1,4-dichloro-2-butene	1476-11-5	--	--	--	--	--	--	No ESV	No Source
Trans-1,4-dichloro-2-butene	110-57-6	--	--	--	--	--	--	No ESV	No Source
Dichlorodifluromethane	75-71-8	--	--	--	--	39.5	USEPA Reg 5	3.95E+01	USEPA Reg 5
1,1-Dichloroethane	75-34-3	--	--	--	--	20.1	USEPA Reg 5	2.01E+01	USEPA Reg 5
1,2-Dichloroethane	107-06-2	--	--	--	--	21.2	USEPA Reg 5	2.12E+01	USEPA Reg 5
1,1-Dichloroethene	75-35-4	--	--	--	--	8.28	USEPA Reg 5	8.28E+00	USEPA Reg 5
1,2-Dichloroethene	540-59-0	--	--	--	--	0.784	USEPA Reg 5 (for trans form)	7.84E-01	USEPA Reg 5 (for trans form)
2,4-Dichlorophenol	120-83-2	--	--	--	--	87.5	USEPA Reg 5	8.75E+01	USEPA Reg 5
2,6-Dichlorophenol	87-65-0	--	--	--	--	1.17	USEPA Reg 5	1.17E+00	USEPA Reg 5
3,4-Dichlorophenol	95-77-2	--	--	20	PRGs	--	--	2.00E+01	PRGs
1,2-Dichloropropane	78-87-5	--	--	700	PRGs[c]	32.7	USEPA Reg 5	7.00E+02	PRGs
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	0.398	USEPA Reg 5	3.98E-01	USEPA Reg 5
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	0.398	USEPA Reg 5	3.98E-01	USEPA Reg 5
Dieldrin	60-57-1	0.0049	mammalian EcoSSL for Dieldrin	--	--	0.00238	USEPA Reg 5	4.90E-03	mammalian EcoSSL for Dieldrin

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
O,O-Diethyl O-2-pyrazinylphosphorothioate	297-97-2	--	--	--	--	0.799	USEPA Reg 5	7.99E-01	USEPA Reg 5
Diethylphthalate	84-66-2	--	--	100	PRGs	24.8	USEPA Reg 5	1.00E+02	PRGs
Dimethoate	60-51-5	--	--	--	--	0.218	USEPA Reg 5	2.18E-01	USEPA Reg 5
Dimethylphthalate	131-11-3	--	--	200	PRGs[c]	734	USEPA Reg 5	2.00E+02	PRGs
3,3'-Dimethylbenzidine	119-93-7	--	--	--	--	0.104	USEPA Reg 5	1.04E-01	USEPA Reg 5
7,12'-Dimethylbenz(a) anthracene	57-97-6	--	--	--	--	16.3	USEPA Reg 5	1.63E+01	USEPA Reg 5
alpha,alpha-Dimethylphenethylamine	122-09-8	--	--	--	--	0.3	USEPA Reg 5	3.00E-01	USEPA Reg 5
2,4-Dimethylphenol	105-67-9	--	--	--	--	0.01	USEPA Reg 5	1.00E-02	USEPA Reg 5
Di-n-butyl phthalate	84-74-2	--	--	200	PRGs	0.15	USEPA Reg 5	2.00E+02	PRGs
Di-n-octylphthalate	117-84-0	--	--	--	--	709	USEPA Reg 5	7.09E+02	USEPA Reg 5
1,3-Dinitrobenzene	99-65-0	--	--	--	--	0.655	USEPA Reg 5	6.55E-01	USEPA Reg 5
2,4-Dinitrophenol	51-28-5	--	--	20	PRGs	0.0609	USEPA Reg 5	2.00E+01	PRGs
2,4-Dinitrotoluene	121-14-2	--	--	--	--	1.28	USEPA Reg 5	1.28E+00	USEPA Reg 5
2,6-Dinitrotoluene	606-20-2	--	--	--	--	0.0328	USEPA Reg 5	3.28E-02	USEPA Reg 5
4,6-Dinitro-2-methylphenol	534-52-1	--	--	--	--	0.144	USEPA Reg 5	1.44E-01	USEPA Reg 5
Dinoseb	88-85-7	--	--	--	--	0.0218	USEPA Reg 5	2.18E-02	USEPA Reg 5
1,4-Dioxane	123-91-1	--	--	--	--	2.05	USEPA Reg 5	2.05E+00	USEPA Reg 5
Diphenylamine	122-39-4	--	--	--	--	1.01	USEPA Reg 5	1.01E+00	USEPA Reg 5

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
Disulfoton	298-04-4	--	--	--	--	0.0199	USEPA Reg 5	1.99E-02	USEPA Reg 5
Endosulfan I (alpha)	959-98-8	--	--	--	--	0.119	USEPA Reg 5	1.19E-01	USEPA Reg 5
Endosulfan II (beta)	33213-65-9	--	--	--	--	0.119	USEPA Reg 5	1.19E-01	USEPA Reg 5
Endosulfan, mixed isomers	115-29-7	--	--	--	--	--	--	No ESV	No Source
Endosulfan sulfate	1031-07-8	--	--	--	--	0.0358	USEPA Reg 5	3.58E-02	USEPA Reg 5
Endrin	72-20-8	--	--	--	--	0.0101	USEPA Reg 5	1.01E-02	USEPA Reg 5
Endrin aldehyde	7421-93-4	--	--	--	--	0.0105	USEPA Reg 5	1.05E-02	USEPA Reg 5
Ethyl metharcrylate	97-63-2	--	--	--	--	30	USEPA Reg 5	3.00E+01	USEPA Reg 5
Ethylbenzene	100-41-4	--	--	--	--	5.16	USEPA Reg 5	5.16E+00	USEPA Reg 5
Famphur	52-85-7	--	--	--	--	0.0497	USEPA Reg 5	4.97E-02	USEPA Reg 5
Fluoranthene	206-44-0	--	--	--	--	122	USEPA Reg 5	1.22E+02	USEPA Reg 5
Fluorene	86-73-7	--	--	30	PRGs[c]	122	USEPA Reg 5	3.00E+01	PRGs
Furan	110-00-9	--	--	600	PRGs	--	--	6.00E+02	PRGs
Heptane	142-82-5	--	--	--	--	--	--	No ESV	No Source
Heptachlor	76-44-8	--	--	--	--	0.00598	USEPA Reg 5	5.98E-03	USEPA Reg 5
Heptachlor Epoxide	1024-57-3	--	--	--	--	0.152	USEPA Reg 5	1.52E-01	USEPA Reg 5
Hexachlorobenzene	118-74-1	--	--	--	--	0.199	USEPA Reg 5	1.99E-01	USEPA Reg 5
Hexachlorobutadiene	87-68-3	--	--	--	--	0.0398	USEPA Reg 5	3.98E-02	USEPA Reg 5
Hexachlorocyclopentadiene	77-47-4	--	--	10	PRGs	0.755	USEPA Reg 5	1.00E+01	PRGs
Hexachloroethane	67-72-1	--	--	--	--	0.596	USEPA Reg 5	5.96E-01	USEPA Reg 5
Hexachorophene	70-30-4	--	--	--	--	0.199	USEPA Reg 5	1.99E-01	USEPA Reg 5
2-Hexanone	591-78-6	--	--	--	--	12.6	USEPA Reg 5	1.26E+01	USEPA Reg 5

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
HMX	2691-41-0	--	--	--	--	--	--	No ESV	No Source
Indeno(1,2,3-cd)pyrene	193-39-5	--	--	--	--	109	USEPA Reg 5	1.09E+02	USEPA Reg 5
Isobutyl alcohol	78-83-1	--	--	--	--	20.8	USEPA Reg 5	2.08E+01	USEPA Reg 5
Isodrin	465-73-6	--	--	--	--	0.00332	USEPA Reg 5	3.32E-03	USEPA Reg 5
Isophorone	78-59-1	--	--	--	--	139	USEPA Reg 5	1.39E+02	USEPA Reg 5
Isosafrole	120-58-1	--	--	--	--	9.94	USEPA Reg 5	9.94E+00	USEPA Reg 5
Kepone	143-50-0	--	--	--	--	0.0327	USEPA Reg 5	3.27E-02	USEPA Reg 5
Malathion	121-75-5	--	--	--	--	--	--	No ESV	No Source
Methacrylonitrile	126-98-7	--	--	--	--	0.057	USEPA Reg 5	5.70E-02	USEPA Reg 5
Methapyrilene	91-80-5	--	--	--	--	2.78	USEPA Reg 5	2.78E+00	USEPA Reg 5
Methoxychlor	72-43-5	--	--	--	--	0.0199	USEPA Reg 5	1.99E-02	USEPA Reg 5
Methyl iodide	74-88-4	--	--	--	--	1.23	USEPA Reg 5	1.23E+00	USEPA Reg 5
Methyl methacrylate	80-62-6	--	--	--	--	984	USEPA Reg 5	9.84E+02	USEPA Reg 5
Methyl methanesulfanate	66-27-3	--	--	--	--	0.315	USEPA Reg 5	3.15E-01	USEPA Reg 5
Methyl parathion	298-00-0	--	--	--	--	0.00029	USEPA Reg 5	2.92E-04	USEPA Reg 5
4-Methyl-2-pentanone	108-10-1	--	--	--	--	443	USEPA Reg 5	4.43E+02	USEPA Reg 5
3-Methylcholanthrene	56-49-5	--	--	--	--	0.0779	USEPA Reg 5	7.79E-02	USEPA Reg 5
Methylene bromide	74-95-3	--	--	--	--	65	USEPA Reg 5	6.50E+01	USEPA Reg 5
Methylene chloride	75-09-2	--	--	--	--	4.05	USEPA Reg 5	4.05E+00	USEPA Reg 5
2-Methylnaphthalene	91-57-6	--	--	--	--	3.24	USEPA Reg 5	3.24E+00	USEPA Reg 5
2-Methylphenol	95-48-7	--	--	--	--	40.4	USEPA Reg 5	4.04E+01	USEPA Reg 5
4-Methylphenol	106-44-5	--	--	--	--	163	USEPA Reg 5	1.63E+02	USEPA Reg 5

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
Mirex	2385-85-5	--	--	--	--	--	--	No ESV	No Source
Naphthalene	91-20-3	--	--	--	--	0.0994	USEPA Reg 5	9.94E-02	USEPA Reg 5
1,4-Naphthoquinone	130-15-4	--	--	--	--	1.67	USEPA Reg 5	1.67E+00	USEPA Reg 5
1-Naphthylamine	134-32-7	--	--	--	--	9.34	USEPA Reg 5	9.34E+00	USEPA Reg 5
2-Naphthylamine	91-59-8	--	--	--	--	3.03	USEPA Reg 5	3.03E+00	USEPA Reg 5
2-Nitroaniline	88-74-4	--	--	--	--	74.1	USEPA Reg 5	7.41E+01	USEPA Reg 5
3-Nitroaniline	99-09-2	--	--	--	--	3.16	USEPA Reg 5	3.16E+00	USEPA Reg 5
4-Nitroaniline	100-01-6	--	--	--	--	21.9	USEPA Reg 5	2.19E+01	USEPA Reg 5
Nitrobenzene	99-95-3	--	--	40	PRGs[c]	1.31	USEPA Reg 5	4.00E+01	PRGs
Nitrocellulose	9004-70-0	--	--	--	--	--	--	No ESV	No Source
Nitroglycerin	55-63-0	--	--	--	--	--	--	No ESV	No Source
Nitroguanidine	556-88-7	--	--	--	--	--	--	No ESV	No Source
2-Nitrophenol	88-75-5	--	--	--	--	1.6	USEPA Reg 5	1.60E+00	USEPA Reg 5
4-Nitrophenol	100-02-7	--	--	7	PRGs	5.12	USEPA Reg 5	7.00E+00	PRGs
4-Nitroquinoline-1-oxide	56-57-5	--	--	--	--	0.122	USEPA Reg 5	1.22E-01	USEPA Reg 5
3-Nitrotoluene	99-08-1	--	--	--	--	--	--	No ESV	No Source
N-Nitrosodiethylamine	55-18-5	--	--	--	--	0.0693	USEPA Reg 5	6.93E-02	USEPA Reg 5
N-Nitrosodimethylamine	62-75-9	--	--	--	--	3.2E-05	USEPA Reg 5	3.21E-05	USEPA Reg 5
N-Nitrosodiphenylamine	86-30-6	--	--	20	PRGs[c]	0.545	USEPA Reg 5	2.00E+01	PRGs
N-Nitrosomethylethylamine	10595-95-6	--	--	--	--	0.00166	USEPA Reg 5	1.66E-03	USEPA Reg 5
N-Nitrosomorpholine	59-89-2	--	--	--	--	0.0706	USEPA Reg 5	7.06E-02	USEPA Reg 5

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
N-Nitrosopiperidine	100-75-4	--	--	--	--	0.00665	USEPA Reg 5	6.65E-03	USEPA Reg 5
N-Nitrosopyrrolidine	930-55-2	--	--	--	--	0.0126	USEPA Reg 5	1.26E-02	USEPA Reg 5
N-nitroso-di-n-propylamine	621-64-7	--	--	--	--	0.544	USEPA Reg 5	5.44E-01	USEPA Reg 5
2-Nitrotoluene	88-72-2	--	--	--	--	--	--	No ESV	No Source
5-nitro-o-Toluidine	99-55-8	--	--	--	--	8.73	USEPA Reg 5	8.73E+00	USEPA Reg 5
2,2'- oxybis(1-Chloropropane)	108-60-1	--	--	--	--	19.9	USEPA Reg 5	1.99E+01	USEPA Reg 5
Parathion	56-38-2	--	--	--	--	0.00034	USEPA Reg 5	3.40E-04	USEPA Reg 5
PCDDs	PCDD-S	--	--	--	--	2E-07	USEPA Reg 5	1.99E-07	USEPA Reg 5
Pentachloroaniline	527-20-8	--	--	100	PRGs[c]	--	--	1.00E+02	PRGs
Pentachlorobenzene	608-93-5	--	--	20	PRGs	0.497	USEPA Reg 5	2.00E+01	PRGs
Pentachloroethane	76-01-7	--	--	--	--	10.7	USEPA Reg 5	1.07E+01	USEPA Reg 5
Pentachloronitrobenzene	82-68-8	--	--	--	--	7.09	USEPA Reg 5	7.09E+00	USEPA Reg 5
Pentachlorophenol	87-86-5	2.1	avian EcoSSL for PCP	3	PRGs	0.119	USEPA Reg 5	2.10E+00	avian EcoSSL for PCP
PETN	78-11-5	--	--	--	--	--	--	No ESV	No Source
Phenacetin	62-44-2	--	--	--	--	11.7	USEPA Reg 5	1.17E+01	USEPA Reg 5
Phenanthrene	85-01-8	--	--	--	--	45.7	USEPA Reg 5	4.57E+01	USEPA Reg 5
Phenol	108-95-2	--	--	30	PRGs	120	USEPA Reg 5	3.00E+01	PRGs
p-Phenylenediamine	106-50-3	--	--	--	--	6.16	USEPA Reg 5	6.16E+00	USEPA Reg 5
Phorate	298-02-2	--	--	--	--	0.0005	USEPA Reg 5	4.96E-04	USEPA Reg 5
2-Picoline	109-06-8	--	--	--	--	9.9	USEPA Reg 5	9.90E+00	USEPA Reg 5

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
Polychlorinated biphenyls	1336-36-3	--	--	0.371	PRGs	0.00033	USEPA Reg 5	3.71E-01	PRGs
Polychlorinated dibenzofurans	51207-31-9	--	--	--	--	3.9E-05	USEPA Reg 5	3.86E-05	USEPA Reg 5
Polynuclear aromatic hydrocarbons	130498-29-2	1.1	mammalian EcoSSL for HMW PAHs	--	--	--	--	1.10E+00	mammalian EcoSSL for HMW PAHs
Pronamide	23950-58-5	--	--	--	--	0.0136	USEPA Reg 5	1.36E-02	USEPA Reg 5
Propionitrile	107-12-0	--	--	--	--	0.0498	USEPA Reg 5	4.98E-02	USEPA Reg 5
4-Nitrotoluene	99-99-0	--	--	--	--	--	--	No ESV	No Source
Pyrene	129-00-0	--	--	--	--	78.5	USEPA Reg 5	7.85E+01	USEPA Reg 5
Pyridine	110-86-1	--	--	--	--	1.03	USEPA Reg 5	1.03E+00	USEPA Reg 5
RDX	121-82-4	--	--	--	--	--	--	No ESV	No Source
Safrole	94-59-7	--	--	--	--	0.404	USEPA Reg 5	4.04E-01	USEPA Reg 5
Silvex (2,4,5-TP)	93-72-1	--	--	--	--	0.109	USEPA Reg 5	1.09E-01	USEPA Reg 5
Styrene	100-42-5	--	--	300	PRGs	4.69	USEPA Reg 5	3.00E+02	PRGs
TCDD (2,3,7,8-Tetrachlorodibenzo-p-dioxin)	1746-01-6	--	--	3.15E-06	PRGs	2E-07	USEPA Reg 5	3.15E-06	PRGs
TCDF	51207-31-9	--	--	8.40E-04	PRGs	3.9E-05	USEPA Reg 5	8.40E-04	PRGs
2,3,5,6-Tetrachloroaniline	3481-20-7	--	--	20	PRGs	--	--	2.00E+01	PRGs
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	--	--	2.02	USEPA Reg 5	2.02E+00	USEPA Reg 5
1,2,3,4-Tetrachlorobenzene	634-66-2	--	--	10	PRGs	--	--	1.00E+01	PRGs

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
1,1,1,2-Tetrachloroethane	630-20-6	--	--	--	--	225	USEPA Reg 5	2.25E+02	USEPA Reg 5
1,1,2,2-Tetrachloroethane	79-34-5	--	--	--	--	0.127	USEPA Reg 5	1.27E-01	USEPA Reg 5
Tetrachloroethene	127-18-4	--	--	--	--	9.92	USEPA Reg 5	9.92E+00	USEPA Reg 5
2,3,4,5-Tetrachlorophenol	4901-51-3	--	--	20	PRGs	--	--	2.00E+01	PRGs
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	--	--	0.199	USEPA Reg 5	1.99E-01	USEPA Reg 5
Tetraethyl dithiopyrophosphate	3689-24-5	--	--	--	--	0.596	USEPA Reg 5	5.96E-01	USEPA Reg 5
Tetryl	479-45-8	--	--	--	--	--	--	No ESV	No Source
Toluene	108-88-3	--	--	200	PRGs	5.45	USEPA Reg 5	2.00E+02	PRGs
o-Toluidine	95-53-4	--	--	--	--	2.97	USEPA Reg 5	2.97E+00	USEPA Reg 5
4-Toluidine	106-49-0	--	--	--	--	--	--	No ESV	No Source
Toxaphene	8001-35-2	--	--	--	--	0.119	USEPA Reg 5	1.19E-01	USEPA Reg 5
2,4,5-Trichloroaniline	636-30-6	--	--	20	PRGs	--	--	2.00E+01	PRGs
1,2,3-Trichlorobenzene	87-61-6	--	--	20	PRGs	--	--	2.00E+01	PRGs
1,2,4-Trichlorobenzene	120-82-1	--	--	20	PRGs	11.1	USEPA Reg 5	2.00E+01	PRGs

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
1,1,1-Trichloroethane	71-55-6	--	--	--	--	29.8	USEPA Reg 5	2.98E+01	USEPA Reg 5
1,1,2-Trichloroethane	79-00-5	--	--	--	--	28.6	USEPA Reg 5	2.86E+01	USEPA Reg 5
Trichloroethene	79-01-6	--	--	--	--	12.4	USEPA Reg 5	1.24E+01	USEPA Reg 5
Trichlorofluoromethane	75-69-4	--	--	--	--	16.4	USEPA Reg 5	1.64E+01	USEPA Reg 5
2,4,5-Trichlorophenol	95-95-4	--	--	9	PRGs	14.1	USEPA Reg 5	9.00E+00	PRGs
2,4,6-Trichlorophenol	88-06-2	--	--	4	PRGs	9.94	USEPA Reg 5	4.00E+00	PRGs
1,2,3-Trichloropropane	96-18-4	--	--	--	--	3.36	USEPA Reg 5	3.36E+00	USEPA Reg 5
2,4,5-Trichlorophenoxyacetic acid	93-76-5	--	--	--	--	0.596	USEPA Reg 5	5.96E-01	USEPA Reg 5
O,O,O-Triethyl phosphorothioate	126-68-1	--	--	--	--	0.818	USEPA Reg 5	8.18E-01	USEPA Reg 5
1,3,5-Trinitrobenzene	99-35-4	--	--	--	--	0.376	USEPA Reg 5	3.76E-01	USEPA Reg 5
2,4,6-Trinitrotoluene	118-96-7	--	--	--	--	--	--	No ESV	No Source
Vinyl acetate	108-05-4	--	--	--	--	12.7	USEPA Reg 5	1.27E+01	USEPA Reg 5

Table H-2. ESV for Chemical Analytes in Soil (continued)

Analyte	CAS Registry Number	Soil Screening Values							
		USEPA EcoSSLs		DOE (1997a) Preliminary Remediation Goals for Ecological Endpoints[a]		USEPA Region 5 Ecological Screening Levels (2003) (update of 1998 EDQLs)		Preferred Ecological Screening Value (ESV)[d]	
		Number (mg/kg dry soil)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source	Number (mg/kg)	Source
Vinyl chloride	75-01-4	--	--	--	--	0.646	USEPA Reg 5	6.46E-01	USEPA Reg 5
Xylenes (total)	1330-20-7	--	--	--	--	10	USEPA Reg 5	1.00E+01	USEPA Reg 5

Hierarchy of values found in updated Ohio EPA Risk Assessment Guidance, section 3.3.5: http://www.epa.ohio.gov/portals/30/rules/RR-031.pdf
EcoSSLs: http://www.epa.gov/ecotox/ecossl/
Ecological Screening Levels, USEPA Region 5, 2003: http://www.epa.gov/reg5rcra/ca/edql.htm
[a]United States Department of Energy (DOE) (1997a). *Preliminary Remediation Goals for Ecological Endpoints*. ES/ER/TM-162/R2.
http://www.esd.ornl.gov/programs/ecorisk/documents/tm162r2.pdf
[b]Values for which plant benchmark is lowest. According to DOE (1997a), the PRG is the lowest of three values (earthworm, plant, or wildlife). The only values shown in DOE 1997a are the ones for which the calculated value is lower than earthworm and plant values. Plant values found in DOE 1997b. *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants*. ES/ER/TM-85/R3.
[c]Values for which earthworm benchmark is lowest. According to DOE (1997a), the PRG is the lowest of three values (earthworm, plant, or wildlife). The only values shown in DOE 1997a are the ones for which the calculated value is lower than earthworm and plant values. Earthworm values found in DOE 1997c. *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Process*. ES/ER/TM-126/R2.
[d]The Preferred Soil Value is the EcoSSLs, followed by DOE (1997a), followed by USEPA Region 5 ESLs.
*Aluminum is identified as a COPEC only at sites where the soil pH is less than 5.5.
**In well-aerated soils between pH 5 and 8, iron is not expected to be toxic to plants. A determination of the geochemical conditions (i.e., pH and Eh at a minimum) of the environmental setting, as well as the presence of iron floc and the toxic metals, is critical to the determination of the relative importance of iron at a site.
CAS = Chemical Abstract Service
COPEC = Chemical of Potential Ecological Concern
EcoSSL = Ecological Soil Screening Level
EDQL = Ecological Data Quality Level
PRG = Preliminary Remediation Goal
RDX = (cyclonite) Hexahydro-1,3,5-trinitro-1,3,5-triazine
USEPA = United States Environmental Protection Agency
-- = no value

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Table H-3. SRC and COPEC Screening for Shallow Surface Soil (0-1 ft bgs ISM Samples) at Anchor Test Area

Analyte (mg/kg)	CAS Number	Freq of Detect	Minimum Detect	Maximum Detect	Average Result	Background Criteria[a]	PBT[b] Chemical? (yes/no)	SRC? (yes/no)	SRC Justification	ESV	ESV Source[c]	COPEC? (yes/no)	COPEC Justification	Ratio of Max to ESV
Metals														
Aluminum	7429-90-5	7/ 7	3300	13100	10400	17700	No	No	Below background	50	PRGs	No	Below background	262
Antimony	7440-36-0	3/ 7	0.11	0.59	0.52	0.96	No	No	Below background	0.27	EcoSSL	No	Below background	2.19
Arsenic	**7440-38-2**	**7/ 7**	**7.5**	**54**	**15.8**	**15.4**	**No**	**Yes**	**Exceeds background**	**18**	**EcoSSL**	**Yes**	**Exceeds ESV**	**3**
Barium	7440-39-3	7/ 7	22	130	70.7	88.4	No	Yes	Exceeds background	330	EcoSSL	No	Below ESV	0.39
Beryllium	7440-41-7	7/ 7	0.24	1.2	0.66	0.88	No	Yes	Exceeds background	21	EcoSSL	No	Below ESV	0.06
Cadmium	7440-43-9	4/ 7	0.1	0.18	0.128	0	No	Yes	Exceeds background	0.36	EcoSSL	No	Below ESV	0.50
Calcium	7440-70-2	7/ 7	1100	18000	8700	15800	No	No	Essential nutrient	No ESV	No Source	No	Essential nutrient	No ESV
Chromium	**7440-47-3**	**7/ 7**	**16**	**42.3**	**25.5**	**17.4**	**No**	**Yes**	**Exceeds background**	**26**	**EcoSSL**	**Yes**	**Exceeds ESV**	**1.63**
Cobalt	7440-48-4	7/ 7	3.6	10.6	7.89	10.4	No	Yes	Exceeds background	13	EcoSSL	No	Below ESV	0.82
Copper	7440-50-8	7/ 7	9.3	16.8	12.6	17.7	No	No	Below background	28	EcoSSL	No	Below background	0.60
Iron	7439-89-6	7/ 7	11000	26300	19200	23100	No	No	Essential nutrient	No ESV	No Source	No	Essential nutrient	No ESV
Lead	7439-92-1	7/ 7	8.7	23	16.8	26.1	No	No	Below background	11	EcoSSL	No	Below background	2.09
Magnesium	7439-95-4	7/ 7	1800	3700	3030	3030	No	No	Essential nutrient	No ESV	No Source	No	Essential nutrient	No ESV
Manganese	**7439-96-5**	**7/ 7**	**330**	**1500**	**807**	**1450**	**No**	**Yes**	**Exceeds background**	**220**	**EcoSSL**	**Yes**	**Exceeds ESV**	**6.82**
Mercury	**7439-97-6**	**6/ 7**	**0.038**	**0.062**	**0.0429**	**0.036**	**Yes**	**Yes**	**Exceeds background**	**0.00051**	**PRGs**	**Yes**	**Exceeds ESV**	**121.57**
Nickel	7440-02-0	7/ 7	13	31.9	18.6	21.1	No	Yes	Exceeds background	38	EcoSSL	No	Below ESV	0.84
Potassium	7440-09-7	7/ 7	490	1100	886	927	No	No	Essential nutrient	No ESV	No Source	No	Essential nutrient	No ESV
Selenium	7782-49-2	7/ 7	0.45	1	0.767	1.4	No	No	Below background	0.52	EcoSSL	No	Below background	1.92
Sodium	7440-23-5	6/ 7	31.4	290	166	123	No	No	Essential nutrient	No ESV	No Source	No	Essential nutrient	No ESV
Thallium	7440-28-0	3/ 7	0.18	0.22	0.251	0	No	Yes	Exceeds background	1	PRGs	No	Below ESV	0.22
Vanadium	7440-62-2	7/ 7	6.8	24	18.3	31.1	No	No	Below background	7.8	EcoSSL	No	Below background	3.08
Zinc	7440-66-6	7/ 7	49	57	53.9	61.8	No	No	Below background	46	EcoSSL	No	Below background	1.24
Semi-volatile Organic Compounds														
2-Methylnaphthalene	91-57-6	1/ 2	0.0092	0.0092	0.0129	0	No	Yes	Detected organic	3.24	USEPA Reg 5	No	Below ESV	0.003
Benzo(b)fluoranthene	205-99-2	1/ 2	0.014	0.014	0.0198	0	No	Yes	Detected organic	59.8	USEPA Reg 5	No	Below ESV	2.34E-04
Bis(2-ethylhexyl)phthalate	117-81-7	1/ 2	0.069	0.069	0.077	0	No	Yes	Detected organic	0.925	USEPA Reg 5	No	Below ESV	0.07
Naphthalene	91-20-3	1/ 2	0.012	0.012	0.0143	0	No	Yes	Detected organic	0.0994	USEPA Reg 5	No	Below ESV	0.12

[a]Background criteria for soil 0-1 ft bgs from Facility-Wide background values for RVAAP, published in the *Final Phase II Remedial Investigation Report for Winklepeck Burning Grounds at Ravenna Army Ammunition Plant, Ravenna, Ohio* (USACE 2001).
[b]PBT chemicals are defined by Ohio EPA in *Guidance for Conducting Ecological Risk Assessments* (2008) as: aldrin/dieldrin, chlordane,1,1'-(2,2,2trichloroethylidene) bis(4-chlorobenzene) (DDT) and metabolites (DDD+DDE), hexachlorobenzene, hexachlorobutadiene (hexachloro-1,3-butadiene), hexachlorocyclohexanes (BHCs, alpha-BHC, beta-BHC, delta-BHC), lindane (gammahexachlorocyclohexane), alkyl-lead, mercury and its compounds, mirex, photomirex, octachlorostyrene, polychlorinated biphenyls (PCBs), 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), dioxin, PCDF (furans), 1,2,3,4-tetrachlorobenzene, 1,2,4,5-tetrachlorobenzene, toxaphene, and other chemicals that are reasonably anticipated to bioaccumulate in animal tissues.
[c]Screening Level Source: See soil ESV table. Hierarchy of values according to Ohio EPA Risk Assessment Guidance is EcoSSLs, followed by DOE *Preliminary Remediation Goals for Ecological Endpoints* (1997a), followed by Region 5 ESLs.

bgs = below ground surface
CAS = Chemical Abstract Service
COPEC = Chemical of Potential Ecological Concern
DOE = United States Department of Energy
EcoSSL = Ecological Soil Screening Level
ESL = Ecological Screening Level
ESV = Ecological Screening Value
Bold = Chemical is a COPEC
ISM = Incremental Sampling Methodology
Ohio EPA = Ohio Environmental Protection Agency
PBT = Persistent, Bioaccumulative, and Toxic
PRG = Preliminary Remediation Goal
RVAAP = Ravenna Army Ammunition Plant
SRC = Site Related Contaminant
USEPA = United States Environmental Protection Agency

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Table H-4. Checklist of Important Ecological Places and Resources at Anchor Test Area

Resource	Army (2005)	Ohio EPA (2008)	Anchor Test Area	
			Absent	Present
National Park	X	X	X	
Designated Federal Wilderness Area	X	X	X	
National Lakeshore Recreational Area	X	X	X	
Habitat known to be used by Federal designated or proposed threatened or endangered species	X	X	X	
National or State Wildlife Refuge	X	X	X	
Federal land designated for protection of natural ecosystems	X	X	X	
Habitat known to be used by state designated threatened or endangered species	X	X	X	
Federally-designated Scenic or Wild River	X	X	X	
State land designated for wildlife or game management	X	X	X	
State-designated Scenic or Wild River	X	X	X	
Wetlands and waters of the State[a]	X	X	X	
National preserve	X	X[b]	X	
State-designated Natural Areas	X	X[b]	X	
Spawning areas critical for the maintenance of fish/shellfish species within river, lake, or coastal tidal waters	X	X[c]	X	
Migratory pathways and feeding areas critical for maintenance of anadromous fish species[d]	X	X[c]	X	
Terrestrial areas used for breeding by large or dense aggregations of animals	X	X[c]	X	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	X	X[c]	X	
Locally important ecological place[e]	X		X	
Critical habitat for Federal designated threatened or endangered species	X		X	
Marine Sanctuary	X		X	
Areas identified under the Coastal Zone Management Act	X		X	
Sensitive Areas identified under the National Estuary Program or Near Coastal Waters Program	X		X	
Critical areas identified under the Clean Lakes Program	X		X	
National Monument	X		X	
National Seashore Recreational Area	X		X	
Unit of Coastal Barrier Resources System	X		X	
Coastal Barrier (undeveloped)	X		X	
Coastal Barrier (partially developed)	X		X	
Administratively Proposed Federal Wilderness Area	X		X	
National river reach designated as Recreational	X		X	

Table H-4. Checklist of Important Ecological Places and Resources at Anchor Test Area (continued)

Resource	Army (2005)	Ohio EPA (2008)	Anchor Test Area	
			Absent	Present
Habitat known to be used by species under review as to its Federal threatened or endangered status	X		X	
State-designated areas for protection or maintenance of aquatic life	X		X	
Fragile landscapes, land sensitive to degradation if vegetative habitat or cover diminishes	X		X	
State, local, or private land designated for protection of natural ecosystems		X	X	
Federal land designated for wildlife or game management		X	X	
Surface water, as that term is used in Chapter 3745-1 of the OAC		X	X	
Federally-listed or state-listed threatened or endangered species		X	X	
State of Ohio special interest or declining species and its associated habitat		X	X	
State Park		X	X	

[a]For Ohio EPA 2008, as qualified by "regulated under federal law and state of Ohio's water quality laws."
[b]Ohio EPA does not restrict preserves and natural areas to National or State.
[c]Ohio EPA lists "wildlife populations and their associated important nesting areas and food resources, taking into consideration land use and the quality and extent of habitat on and in the vicinity of the site."
[d]Within river reaches or areas in lakes or coastal tidal waters in which fish spend extended periods of time.
[e]Identified by the Integrated Natural Resource Management Plan (INRMP), Base Realignment and Closure (BRAC) Cleanup Plan or Redevelopment Plan, or other official land management plans.
The Ohio Army National Guard INRMP (OHARNG 2008) has five special interest areas (important resources) at RVAAP: mixed mature woods, Hemlock Ravine-Wadsworth Glen, mixed swamp forest, mixed valuable communities, and oak/maple swamp forest. Also, the OHARNG recognizes the importance of federal and state-listed threatened and endangered plant and animal species.
x = Designated as important and **when bolded there are possible qualifiers**
OAC = Ohio Administrative Code
Ohio EPA = Ohio Environmental Protection Agency
RVAAP = Ravenna Army Ammunition Plant

Table H-5. Natural Resources Management Goals (OHARNG 2008)

Goals and Objectives of Ohio Army National Guard	Comments on Goals Relative to HTRW Work at RVAAP
Goal 1. Manage natural resources in a manner that is compatible with and supports the military mission while complying with applicable Federal and State laws and Army regulations and policies. Objective 1.1: Initiate programs and projects that enhance the training land and training opportunities and/or do not unnecessarily limit training land availability. Objective 1.2: Continue to educate Camp Ravenna users regarding the natural resources at the Camp Ravenna and their part in ensuring sustainable use of the site in perpetuity.	U.S. Army committed to natural resources management in a manner that is compatible with and supports the military mission and complies with Federal and State laws and Army regulations and policies.
Goal 2. Maintain and foster positive working relationships with the U.S. Fish and Wildlife Service, the ODNR DOW, and other federal, state and local natural resources management agencies and organizations for the benefit of the military mission, the natural resources being managed, and the citizens of Ohio and the nation. Objective 2.1: Effectively communicate mission needs to cooperating agencies and solicit input/review on projects with the potential to impact natural resources, especially in areas of regulatory primacy. Objective 2.2: Provide copies of biological surveys to interested cooperating agencies. Objective 2.3: Facilitate cooperative management programs and projects that are compatible with the military mission and within the capabilities of the Camp Ravenna staff.	The U.S. Army works and coordinates with other federal and state agencies as necessary if mission or projects have the potential to impact natural resources.
Goal 3. Monitor the condition of the natural resources and the implied impacts from training and the natural resources management program on the natural resources at the Camp Ravenna. Objective 3.1: Maintain current species inventories and other PLSs through periodic reoccurring surveys and inventories.	The U.S. Army conducts natural resource management activities at the facility to monitor potential impacts from training or other disturbance activities.
Goal 4. Protect and maintain populations of rare plant and animal species on the Camp Ravenna in compliance with Federal and State laws and regulations. Objective 4.1: Avoid negative impacts to federally listed species and avoid/minimize impacts to State listed and otherwise rare species.	The U.S. Army protects and maintains populations of rare plant and animal species by implementing a natural resource management plan at the facility and by avoiding and/or not disturbing areas with rare species.

Table H-5. Natural Resources Management Goals (OHARNG 2008) (continued)

Goals and Objectives of Ohio Army National Guard	Comments on Goals Relative to HTRW Work at RVAAP
Goal 5. Sustain usable training lands and native natural resources by managing non-native and invasive species, vegetation and plant communities, and nuisance wildlife species. Objective 5.1: Manage populations of invasive plant species where they hinder training and/or habitat management objectives. Objective 5.2: Manage non-native and invasive insect species that pose a threat to forest resources. Objective 5.3: Manage terrestrial vegetation to support training, encourage native plant communities, and prevent damage to training site facilities and infrastructure. Objective 5.4: Manage the beaver population to prevent damage to training site facilities and infrastructure and to maintain the quality warm water habitats of Hinkley Creek, Sand Creek, and South Fork Eagle Creek. Objective 5.5: Manage other nuisance animals that negatively impact the ecosystem.	The U.S. Army sustains usable training lands and native natural resources by implementing a natural resource management plan which incorporates invasive species and nuisance species management and by utilizing native species mixes for re-vegetation after ground disturbance activities.
Goal 6. Manage wildlife resources in a manner compatible with the military mission and within the limits of the natural habitat. Objective 6.1: Cooperatively manage wildlife resources with the Ohio DOW. Objective 6.2: Provide opportunity for wildlife recreation to the public that is compatible with the military mission. Objective 6.3: Maintain wildlife population without augmenting the habitat with artificial food plots.	The U.S. Army minimizes habitat disturbance during HTRW activities and utilizes sustainability practices when disturbance is required in order to properly manage and maintain wildlife populations and resources.

Table H-5. Natural Resources Management Goals (OHARNG 2008) (continued)

Goals and Objectives of Ohio Army National Guard	Comments on Goals Relative to HTRW Work at RVAAP
Goal 7. Manage forest resources to the benefit of the military mission, to perpetuate the ecosystem functions, to support regional ecosystem needs, and for the production of forest products. Objective 7.1: Maintain current forest resource data. Objective 7.2: Implement forest management strategies identified in the Camp Ravenna INRMP.	The U.S. Army sustains and manages forest resources by implementing a natural resource management plan. During HTRW activities, efforts are made by the Army to minimize impacts to forest communities.
Goal 8. Manage wetlands and other surface waters in accordance with applicable Federal, State, and local regulations and to protect water quality and ecological functions while facilitating the military mission. Objective 8.1: Avoid wetland fills. Objective 8.2: Minimize and mitigate unavoidable wetland fills. Objective 8.3: Maintain healthy aquatic ecosystems in ponds. Objective 8.4: Restore, enhance and create wetlands when possible and compatible with the military mission.	Wetlands and other surface waters are to be protected during disturbance activities in accordance with Federal, State, and local regulations. Avoidance measures will be implemented as practical. Some AOCs have wetlands.
Goal 9. Manage soil to maintain productivity and prevent and repair erosion in accordance with State and Federal laws and regulations so that the Camp Ravenna can support doctrinally required military training in perpetuity. Objective 9.1: Conduct training and other activities in locations with soil most suitable for supporting the activity. Objective 9.2: Rehabilitate, repair, and maintain areas damaged by training and other activities.	Management of soil relevant to remedial activities under CERCLA. Appropriate storm water and erosion controls are to be utilized during activities that require ground disturbance.

Table H-5. Natural Resources Management Goals (OHARNG 2008) (continued)

Goals and Objectives of Ohio Army National Guard	Comments on Goals Relative to HTRW Work at RVAAP
Goal 10. Manage cultural resources on the Camp Ravenna in accordance with State and Federal laws and regulations while implementing the natural resources management program. Objective 10.1: Comply with Federal, State, and local laws and regulations pertaining to cultural resources found on the training site.	The U.S. Army utilizes a cultural resource management plan to manage and protect cultural resources at the facility. Coordination with state and federal agencies regarding cultural resources is conducting as necessary. Restoration contractors are also advised to utilize the Camp Ravenna Policy for Inadvertent Discoveries for reporting purposes should they come upon a cultural item.
Goal 11. Develop, maintain, and manage data regarding natural resources at the Camp Ravenna through the use of GIS for efficient data storage, retrieval, analysis, and presentation. Objective 11.1: Develop accurate and usable natural resources GIS data.	Natural resource data is collected and managed by the OHARNG. This data may be utilized during restoration activities in order to provide an accurate portrait of natural resources at an AOC.

AOC = Area of Concern
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
DOW = Department of Wildlife
GIS = Geographic Information System
HTRW = Hazardous, Toxic and Radioactive Waste
INRMP = Integrated Natural Resources Management Plan
ODNR = Ohio Department of Natural Resources
OHARNG = Ohio Army National Guard
Ohio EPA = Ohio Environmental Protection Agency
PLS = Planning Level Survey (Wetland)
T & E = Threatened and Endangered Species
USFWS = United States Fish and Wildlife Service

REFERENCES

DOE (United States Department of Energy) 1997a. *Preliminary Remediation Goals for Ecological Endpoints*. Oak Ridge National Laboratory, Oak Ridge Tennessee. August 1997.

DOE 1997b. *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Process; 1997 Revision.* Oak Ridge National Laboratory, Oak Ridge Tennessee. November 1997.

DOE 1997c. *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision.* Oak Ridge National Laboratory, Oak Ridge, Tennessee. November 1997.

MKM (MKM Engineers, Inc.) 2007. *Final Characterization of 14 AOCs at Ravenna Army Ammunition Plant*. March 2007.

OHARNG (Ohio Army National Guard) 2008. *Integrated Natural Resources Management Plan and Environmental Assessment for the Ravenna Training and Logistics Site, Portage and Trumbull Counties, Ohio*. March 2008.

Ohio EPA 2003. *Guidance for Conducting Ecological Risk Assessments (Ohio EPA)*. Division of Emergency and Remedial Response. February 2003.

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USACE (United States Army Corps of Engineers) 2001. *Phase II Remedial Investigation Report for the Winklepeck Burning Grounds at the Ravenna Army Ammunition Plant, Ravenna, Ohio*. April 2001.

USEPA (United States Environmental Protection Agency) 1998. *Technical Approach for Developing EDQLs for Resource Conservation and Recovery Act (RCRA) Appendix IX Constituents and Other Significant Contaminants of Ecological Concern.* USEPA, Region 5. April 1998.

USEPA 2003. *Ecological Screening Levels*. USEPA, Region 5. August 2003.

USEPA 2010. *Ecological Soil Screening Levels (Eco-SSLs).* Office of Solid Waste and Emergency Response, Washington, D.C. http://www.epa.gov/ecotox/ecossl/. 2010.

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APPENDIX I

Detailed Cost Estimate

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Feasibility Study for Anchor Test Area
Ravenna Army Ammunition Plant (RVAAP), Ravenna, Ohio
Summary of Alternatives

Anchor Test Area Alternatives		Duration	Non Discounted Cost		
			Soil		
			Capital Cost	O&M Cost	Total
1	No Action	0	$0	$0	$0
2	Attain National Guard Training and Residential Land Use	<1 yr	$93,967	$0	$93,967

Anchor Test Area Alternatives		Duration	Discounted Cost (4.125%)		
			Soil		
			Capital Cost	O&M Cost	Total
1	No Action	0	$0	$0	$0
2	Attain National Guard Training and Residential Land Use	<1 yr	$93,967	$0	$93,967

Notes:

1. The base year of comparison and cost data will be CY2010. The discounted rates used to calculate present values will be based on Economic Guidance Memorandum, 11-01, Federal Interest Rates for Corps of Engineers Projects for Fiscal Year 2011.

2. Costs were estimated for comparison purposes only and are believed to be accurate within a range of -30% to +50%. Use of these costs for other purposes, including but not limited to, budgetary or construction cost estimating is not appropriate.

Feasibility Study for Anchor Test Area
Ravenna Army Ammunition Plant (RVAAP), Ravenna, Ohio
Summary of AOC Areas and Volumes

	Alternatives	Surface Area (sq ft)	*In situ* Soil (cy)	*In situ with Constructability* [a] Soil (cy)	*Ex situ* [a,b] Soil (cy)	Total Volume (cy)
1	No Action		Not Applicable			
2	Attain National Guard Training and Residential Land Use	225	9	11	14	14

[a] Includes 25% constructability factor
[b] Includes 20% swell factor

Feasibility Study for Anchor Test Area
Alternative 2 - Attain National Guard Training and Residential Land Use
Key Parameters and Assumptions

Key Parameters and Assumptions:

Item	Unit	Value	Notes
Capital Cost			
Additional Site Characterization			
Delineation Sampling	ea	0	Assume no additional soil samples will be required to further define the limits of contamination.
Site Work			
Site Area	sf	225	
Civil Survey	day	1.0	Survey AOC areas and set monuments. RSMeans 017123131100.
Civil Survey	$/day	950	
As Built Drawings	hours	4	Develop plat map for incorporation into the Base Master Plan.
As Built Drawings	$/hr	60	
Soil Excavation			Includes excavation of the AOC areas based on the areas and depths presented in the summary table. In situ volumes include a 25% constructability factor.
Soil Excavation Volume (In situ)	cy	11	
Soil Excavation Volume (Ex situ)	cy	14	Includes soil volume to be transported and disposed. Ex situ volumes include a 25% constructability factor and 20% swell factor.
Soil Excavation Mass	tons	15	Includes soil mass to be transported and disposed.
Soil Excavation Surface Area	sf	225	
Volume to Weight Conversion	tons/cy	1.10	Ex situ or loose soil conversion.
Mobilization/Demobilization	ls	5,000	Includes mob/demob of excavation equipment and preparing submittals.
Excavate Soils	day	1.0	Includes 1/2 cy excavator, 3-22 cy off highway trucks, 1 O.E., 3 T.D., 1 L.S. spotter, 2 L.S. to prep trucks/and misc. Reduced productivity by 50% for loading trucks, small precise excavations, and security/S&H requirements. Average 160 cy/day. RSMeans Crew B12-E.
	$/day	7,720.0	
Standby Time	day	3	Assume 3 days equipment standby while analysis is being performed. Assume no additional hot spot excavation.
	$/day	1120.00	
UXO Support	days	2	Based on historical cost.
	$/days	1,150.00	
Offsite Disposal	tons	15	Based on shipping waste to American Landfill, Waynesburg, Ohio approximately 80 mi RT.
	$/ton	41.00	
Confirmational Sampling & Analysis			
Confirmation Samples	ea	2	Includes 2 samples using incremental sampling methodology (ISM).
Sampling Labor	hrs	8	Includes confirmation sampling labor. Assumes 1 sampling technician at 8 hours/day for 1day.
Sampling Labor	$/hr	70	
Per Diem	$/event	116	1 person x $116/day
Truck Rental / Gas	$/event	190	1 truck x $90/day. Add $100 for gas.
Confirmation Sample Materials	ea	2	Reference ECHOS 33 02 0401/0402 for ISM, processing, disposable sampling and decontamination materials.
Confirmation Sample Materials	$/ea	80	
Sample Analysis	$/ea	200	Analyze samples for metals (2 @ $100). Includes 10% duplicate.
Data Management	hrs	2	Data validation
Data Management	$/hr	60	

Feasibility Study for Anchor Test Area
Alternative 2 - Attain National Guard Training and Residential Land Use
Key Parameters and Assumptions

Key Parameters and Assumptions:

Item	Unit	Value	Notes
Restoration			Includes native soil backfill. Assume productivity has been reduced by 25% to account for security and safety requirements.
Native Soil Backfill	cy	14	Includes 12-in lift of native fill assuming 20% swell. ECHOS 17030423 and RSMeans 312323160040, Unclassified Fill, 6" Lifts, offsite Source @ 20 miles, Includes delivery, spreading, and compaction.
Native Soil Backfill	$/cy	30.96	
Seeding, Vegetative Cover	MSF	2	RSMeans 329219142200. Seeding with mulch and fertilizer. Assume 0.05 acres is revegetated for excavation areas and equipment damage.
Seeding, Vegetative Cover	$/MSF	66.00	
SWPPP Inspections	hrs	10	Assume 2 hrs per week for 5 weeks.
SWPPP Inspections	$/hr	60	
Plans and Reports			
Corrective Action Completion Report	hrs	160	Includes Construction QC data and preparing report.
Technical Labor	$/hr	80	

Feasibility Study for Anchor Test Area
Alternative 2 - Attain National Guard Training and Residential Land Use
Cost Estimate

CAPITAL COST **$93,967**

Activity (unit)	Quantity	Unit Cost	Total
Site Work			
Civil Survey (day)	1	$950.00	$950
As Built Drawings (hrs)	4	$60.00	$240
Soil Excavation			
Mobilization/Demobilization (ls)	1	$5,000.00	$5,000
Excavate Soil (cy)	1	$7,720.00	$7,720
Standby Time (cy)	3	$1,120.00	$3,360
UXO Support (days)	2	$1,150.00	$2,300
Offsite Disposal (ton)	15	$41.00	$631
Confirmational Sampling & Analysis			
Sampling Labor (hrs)	8	$70.00	$560
Per Diem (event)	1	$116.00	$116
Truck Rental / Gas (event)	1	$190.00	$190
Confirmation Sample Materials (ea)	2	$80.00	$160
Sample Analysis (lot)	1	$200.00	$200
Data Management (hrs)	2	$60.00	$120
Restoration			
Native Soil Backfill (cy)	14	$30.96	$433
Seeding, Vegetative Cover (MSF)	2	$66.00	$132
SWPPP Inspections (hrs)	10	$60.00	$600
Plans and Reports			
Corrective Action Completion Report (ea)	160	$80.00	$12,800
Subtotal			$35,513
Design		90%	$31,962
Office Overhead		5%	$1,776
Field Overhead		15%	$5,327
Subtotal			$74,577
Profit		6%	$4,475
Contingency		20%	$14,915
Total			$93,967

COMMENT RESPONSE TABLE

Comment Number	Page or Sheet	Comment	Recommendation	Response
		Ohio EPA (Todd Fisher, Brian Tucker)		
O-1.	GENERAL (ALL RPTS)	This report consistently cites the older Facility-Wide Sampling Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant (USACE 2001).	Please provide an explanation as to why the Final Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant,(USACE 2011) is not being referenced.	Clarification and agree. When referencing the FWSAP, it is in reference to sampling performed under the PBA08 Remedial Investigation. This effort was performed in February – April 2009 under the 2001 FWSAP. The 2011 FWSAP was finalized and approved after the PBA08 RI. To clarify in the text, the revisions below are recommended for Page 4-3, Lines 20-22: A preliminary CSM was developed in the *Performance Based Acquisition 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1* (herein referred to as the PBA08 SAP) to develop sampling rationales and data quality objectives (DQOs) for the PBA08 RI at Anchor Test Area (USACE 2009a). The PBA08 SAP was developed in accordance with the *Facility-Wide Sampling and Analysis Plan* (USACE 2001a) (herein referred to as the FWSAP). A updated version of the FWSAP was developed in February 2011 and approved by the Ohio EPA; however, the PBA08 RI was implemented prior to approval of this updated version. The preliminary CSM…
O-2.	Page ES-9. Figure ES-1	Red markings delineating the dirt mound are not identified in Legend	Please add red markings to the Legend	Agree. The red markings delineating the dirt mound have been identified in the legend.
O-3.	Page 2-2, Section 2.1.2 Lines 21-26 (ALL RPTS)	2010 Census data is now available. The populations of Portage and Trumbull counties, as well as the cities of Ravenna and Newton Falls, have changed from their projected 2007	Please use the 2010 Census data to revise the population totals: Portage County: 161,419 Trumbull County: 210,312 Ravenna City: 11,724 Newton Falls: 4,795	Agree. The first paragraph in Section 2.1.2 has been changed as follows: Census projections for 2010 indicate that the populations of Portage and Trumbull counties are 161,419 and 210,312, respectively. Population centers closest to RVAAP are Ravenna, with a population of 11,724 and

Comment Number	Page or Sheet	Comment	Recommendation	Response
		totals.		Newton Falls, with a population of 4,795.
O-4.	Page 2-7 Figure 2-1	Red markings delineating the dirt mound and stippled patterned delineating the sand pit are not identified in Legend	Please add red markings and stippled pattern to the Legend.	Agree. The red markings delineating the dirt mound have been identified in the legend.
O-5.	Page 5-7, lines 14-17 (ALL RPTS)	The text states that Shelby tube samples were capped, sealed with wax, and submitted for laboratory geotechnical analysis for porosity, bulk density, moisture content, TOC, grain size, and permeability. The text also states that laboratory analytical results for geotechnical samples are presented in Appendix D. The results of the geotechnical analysis have been omitted from Appendix D.	Please provide geotechnical analysis results in Appendix D or indicate in the text where the geotechnical analytical results can be found.	Clarification. The analytical results for the geotechnical samples are presented in Appendix D. The laboratory results can be seen in the Appx D: Laboratory Analytical Results CD for the hard copy or starting on page 2,482 of the compiled PDF. Please note that the SAIC generated results tables were not in Appendix D since they were presented in the main text on page 5-25, Table 5-9. To rectify, we have included a copy of the Summary of Geotechnical Parameters at the end of the tables presented in Appendix D.
O-6.	GENERAL, Section 7.2 Human Risk Assessment	Incorrect Sum of Ratios for non-carcinogens. The report discusses only summing HQs for COCs that have the same target organ or mechanism of action. Actually, all HQs should be summed and only those with the same target organ or mechanism of action should be pulled out into their own category.	Please correct the Sum of Ratios for non-carcinogens in the text and associated tables.	Clarification. The SOR analysis was conducted in accordance with the approach described in the FWCUG Report (Page 5-2) as summarized below: • For noncarcinogens, compare the chemical-specific EPCs to the target risk FWCUG. • If the ratio of the EPC/FWCUG > 1, the chemical is a chemical of concern (COC). • Sum the ratios of chemicals that effect similar target organs. If the sum of ratios > 1, chemicals contributing at least 10% to the sum are also considered COCs for the site.

Comment Number	Page or Sheet	Comment	Recommendation	Response
				No changes recommended.
O-7.	GENERAL, Section 7.2 Human Risk Assessment (ALL RPTS)	The report brought in a discussion on the NCP risk range of 1E-4 to 1E-6. We have stated many times that Ohio EPA has a fixed risk goal of 1E-5. (http://epa.ohio.gov/portals/30/rules/HH%20Cumulative%20Carc%20Risk%20and%20Non-Carc%20Hazard%20Goals.pdf). The DERR Remedial Response program has adopted a human health cumulative excess lifetime carcinogenic risk goal of 1E-5 and a cumulative non-cancer hazard goal equal to a hazard index (HI) of 1, for all receptors and land uses. These goals are to be used as both the level of acceptable excess cancer risk or non-cancer hazard and for the development of remediation goals for a site. The defined risk and hazard goals should be applied as a *goal*, recognizing the need to retain flexibility during the evaluation and selection of remedial alternatives.	This should be used or at a minimum discussed as the appropriate risk goal for RVAAP. Please make the appropriate changes to the text and associated tables.	Clarification and agree. Please note that the target risk for identification of COCs in the RI is 1E-05 as noted in the text and tables. For example, also in Section 7.2.4 the text notes: "The COPC is identified as a COC for a given receptor: If the EPC exceeds the more protective FWCUG for either the 1E-05 target cancer risk or the 1.0 target HQ". Table 7-6 provides the FWCUGs corresponding to an HQ of 1.0 and target risk of 1E-05 and these are the FWCUG used in all of the Appendix G COC screening tables." To provide additional clarification, the following text has been added to describe cancer risk in Section 7.2.4: "For carcinogens, risk is expressed as the probability that an individual will develop cancer over a lifetime as a result of exposure to the carcinogen. Cancer risk from exposure to contamination is expressed as the increased chance of cancer above the normal background rate of cancer. In the United States, the background chance of contracting cancer is a little more than 3 in 10, or 3E-01 (American Cancer Society 2003). The calculated incremental lifetime cancer risks (ILCRs) are compared to the range specified in the NCP of 10-6 to 10-4, or 1-in-1 million to 1-in-10,000 exposed persons developing cancer (USEPA 1990). Cancer risks below 10-6 are considered acceptable; cancer risks above 10-4 are considered unacceptable. The range between 10-6 and 10-4 is of concern, and any decisions to address risks further in this range, either through additional study or engineered control measures, should account for the uncertainty in the risk estimates. The Ohio EPA Division of Environmental Response and Revitalization

Comment Number	Page or Sheet	Comment	Recommendation	Response
				(DERR) Remedial Response program has adopted a human health cumulative ILCR goal within this range of 1E-5 to be used as the level of acceptable excess cancer risk and for the development of remediation goals for a site. The DERR notes the defined risk goal should be applied as a goal, recognizing the need to retain flexibility during the evaluation and selection of remedial alternatives."
O-8.	Page 9-1 Lines 13-22 Anticipated Future Land Use (ALL RPTS)	The Anchor Test Area (ATA) Remedial Investigation and Feasibility Report are tied directly to the anticipated future land use of *dismounted National Guard training with digging*. Furthermore, the representative receptor at ATA is the National Guard Trainee. Since remediation is being performed to achieve CUGs protective of the Resident Farmer and the National Guard Trainee, all potential RVAAP receptors appear to be protected.	No changes required.	Comment noted.
O-9.	Page 9-5 Figure 9-1	Red markings delineating the dirt mound are not identified in Legend	Please add red markings to the Legend	Agree. The red markings delineating the dirt mound have been identified in the legend.
O-10.	Page 13-9, Table 13-1 (ALL RPTS)	Table 13-1 provides a Balancing Criteria Score. It is not readily apparent how each of the ranks is assigned a score.	In the table footnote, please indicate that Low, Medium, and High ranking is assigned scores of 1, 2, and 3 respectively. Please update table ES-2 as well.	Agree. The following footnote has been added to Tables 13-1 and ES-2. "Scoring for the Balancing Criteria is as follows: High = 3, Medium = 2, Low = 1"
O-11.	Page 15-1 Lines 39-40	Based on the information provided in the ATA RI/FS Report, the Ohio EPA is in agreement with the recommended	No changes required.	Comment noted.

Comment Number	Page or Sheet	Comment	Recommendation	Response
		Alternative 2: Attain National Guard Training and Residential land Uses.		
O-12.	Page 16-3 References (ALL RPTS)	RVAAP's Facility Wide Human Health Risk Assessment Manual,Amendment 1 01 Dec 2005 is missing from reference section.	Please add USACE Human Health Risk Assessment Manual,Amendment 1 01 Dec 2005 to the reference list.	Agree. The following reference has been added to Section 16. USACE 2005. *RVAAP's Facility Wide Human Health Risk Assessor Manual, Amendment 1*. December 2005.
O-13.	Appx A, Asbestos Visual Inspection Form	"visable" should be spelled "visible"	This Inspection Report was provided by a third party, and therefore no action is required.	Comment noted. The misspelling is on a template form that was filled out by hand in the field by a 3rd party; no changes proposed.
O-14.	Appx B, Page 1 Lines 7-8	The bullet lists "Facility-Wide Sampling Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant (USACE 2001)." A newer final version exists.	Please revise bullet to read "Final Facility-Wide Sampling and Analysis Plan for Environmental Investigations at the Ravenna Army Ammunition Plant,(USACE 2011).	Clarification. When referencing the FW SAP, it is in reference to sampling performed under the PBA08 Remedial Investigation. This effort was performed in February – April 2009 under the 2003 FW SAP. The 2001 FW SAP was finalized and approved after the PBA08 RI. Please refer to comment O-1 to see recommended clarification to the text.
O-15.	Appx B, Page 3 Lines 23-24 (ALL RPTS)	The text states that Test America of North Canton performed chemical analysis of samples collected. Were explosives analyzed at the North Canton Laboratory?	Verify where explosive analyses occurred, and make the appropriate changes to the text.	Agree and clarification. For explosives analysis, Test America, North Canton shipped the explosives to their West Sacramento, CA laboratory. Text revised as follows: Main text, Page 4-8, lines 21-23 revised as follows: "Samples collected during the PBA08 RI were analyzed by TestAmerica Laboratories, Inc. (herein referred to as TestAmerica) of North Canton, Ohio and West Sacramento, California, as a subcontractor to White Water Associates, Inc., of Amasa, Michigan." Appx B, Page 3, lines 23-24 revised as follows: SAIC subcontracted White Water Associates, Inc., of Amasa, Michigan, who subcontracted TestAmerica

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				Laboratories, Inc. (herein referred to as TestAmerica) of North Canton, Ohio and West Sacramento, California, to perform chemical analysis of samples collected.
O-16.	Appx C, Reference Section	The reference "Facility-Wide Quality Assurance Project Plan for Environmental Investigations (USACE 2001)" has been omitted.	Please include "Facility-Wide Quality Assurance Project Plan for Environmental Investigations (USACE 2001)" in the Reference Section	Clarification. The Facility-wide Quality Assurance Project Plan for Environmental Investigations is part of the Facility-wide Sampling and Analysis Plan (USACE 2001). No text change recommended.
O-17.	General Appendix D	The results from the Geotechnical Analysis have been included in Appendix D	Please include all the results from the Geotechnical Analysis in Appendix D or indicate in the text where these results may be found	Clarification. Please see response to comment O-5.
O-18.	Appx D, Chain of Custody Records (ALL RPTS)	Several of the Chains-of-Custody are missing "received by" signatures.	Please print from CD and provide signed copies of all Chains-of-Custody in Appendix D.	Agree. The fully signed versions of the COCs are within the laboratory data packages (Appx D: Laboratory Analytical Results CD). The COC versions provided in front of the CD were the versions held by the SAIC Field Manager. To rectify, the COC versions in front of the CD will be removed and only the fully signed COCs in the laboratory data packages will be in the report.
O-19.	Appx I, Page 1	Non Discounted Cost and Discounted Cost (4.125%) have the same reported total cost of $94,000. Why are these two values the same.	Please clarify and make the appropriate changes to the text.	Clarification. The discounted rate only affects the tasks that take multiple years to complete. Given the Capital Cost (i.e., excavation cost) is estimated for completion within the same year as completion, there will not be a cost change from the 4.125% discount. Please note that the discounted rate would result in different costs when O&M is required, as that is a task estimated to take 30 years. Since the Alternative 2 will not require O&M, there is no difference between the discounted cost and non-discounted cost. No text change recommended.

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O-20.	Appx I, Page 1 and Page 5 (ALL RPTS)	These pages show remediation costs of $94,000 and $93,967, respectively. These two values should be the same.	Please clarify why these two values are different and make the appropriate changes to the text.	Agree. Page 1 of Appx I has been revised to use the exact number ($93,967), not the rounded number ($94,000). The main text will be reviewed to change the cost to the exact number.
Camp Ravenna (Katie Tait)				
CR-1.	Pg 7-21, Line 32 (ALL RPTS)	"USACE and OHARNG stewardship procedures (OHARNG) intended to facilitate ecological recovery may be utilized if habitat alterations occur."	Change to "Army natural and ecological resource management activities may apply if habitat disturbance occurs."	Agree. Text revised as recommended.
CR-2.	Pg 7-23, Line 38 (ALL RPTS)	"Both the US Army and Ohio EPA recognize 17 important places and resources at RVAAP." This statement makes it sound like these 17 resources are actually located at RVAAP which is incorrect.	Change to "Both the US Army and Ohio EPA recognize 17 important places and resources."	Agree. Text revised as recommended.
CR-3.	Pg 7-24, Line 1 (ALL RPTS)	"Presence of an important ecological resource or place and proximity of contamination at an AOC make a resource ecologically significant." How can contamination make a resource ecologically significant? I think your description of this on page 7-23, Line 25 is a better description. Please revise.		Agree. The sentence on Page 7-24, line 1 "Presence of an important ecological resource or place and proximity of contamination at an AOC make a resource ecologically significant" has been replaced with Page 7-23, line 25 "Ecological significance is defined as an important resource found at an AOC or in its vicinity that is subject to contaminant exposure."
CR-4.	Pg 7-24, Line 13 (ALL RPTS)	"USACE and OHARNG are required to monitor ecological conditions…"	Change to "The Army is required…"	Agree. Text revised as recommended.
CR-5.	Pg 7-24, Line 24	"… or enhance the Camp Ravenna and RVAAP natural resources…" Please	Change to "… or enhance the facility natural resources…"	Agree. Text revised as recommended.

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	(ALL RPTS)	use facility.		
CR-6.	Pg 7-27, Line 1, Threatened and Endangered and Other Rare Species (ALL RPTS)	"Anchor Test Area has not been previously surveyed for rare species. There have been no documented sightings of rare, threatened or endangered species at the AOC (OHARNG 2008)."	Change to "There are currently no federally listed species or critical habitat on Camp Ravenna. Anchor Test Area has not been previously surveyed for rare species; however, there have been no documented sightings of rare, threatened or endangered species at the AOC (OHARNG 2008)."	Agree. Text revised as recommended.
CR-7.	Pg 7-27, Line 17 (ALL RPTS)	"Lack of aquatic habitat lowers the diversity and ecological importance of resources at Anchor Test Area." How does a lack of aquatic habitat lower the diversity of this area? Please explain.		Agree. The sentence has been removed, as the remaining sentences adequately portray that there are no aquatic resources at Anchor Test Area.
CR-8.	Appendix H, Table H-5 (ALL RPTS)	Change references of RTLS to Camp Ravenna even though this came from the OHARNG INRMP.		Agree. The use of "RTLS" has been replaced with "Camp Ravenna". RTLS will be removed from the list of acronyms and from the footer at the end of Table H-5.
CR-9.	Appendix H, Table H-5, Goal 2 (ALL RPTS)	The comment stated by SAIC in relation to this Goal is not applicable nor meet the intent of the Goal. It needs to state something like "The Army works and coordinates with other federal and state agencies as necessary if mission or projects have the potential to impact natural resources."		Agree. Text revised as recommended.
CR-10.	Appendix H, Table H-5, Goal 3 (ALL RPTS)	"No known chemically disturbed places in the natural resource areas at RTLS; chemically disturbed places are found among t he AOCs that are no currently part of Camp Ravenna…."		Agree. Text revised as recommended.

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		This statement is incorrect as there are AOCs/MRSs on Camp Ravenna property. Additionally the entire statement/comment is not applicable to the Goal listed. It needs to read something like "The Army conducts natural resource management activities at the facility to monitor potential impacts from training or other disturbance activities."		
CR-11.	Appendix H, Table H-5, Goal 4 (ALL RPTS)	The comment stated by SAIC in relation to this Goal is not applicable nor meet the intent of the Goal. It needs to state something like "The Army protects and maintains populations of rare plant and animal species by implementing a natural resource management plan at the facility and by avoiding and/or not disturbing areas with rare species."		Agree. Text revised as recommended.
CR-12.	Appendix H, Table H-5, Goal 5 (ALL RPTS)	The comment stated by SAIC in relation to this Goal is not applicable nor meet the intent of the Goal. It needs to state something like "The Army sustains usable training lands and native natural resources by implementing a natural resource management plan which incorporates invasive species and nuisance species management and by utilizing native species mixes for revegetation after ground disturbance activities."		Agree. Text revised as recommended.
CR-13.	Appendix H,	The comment stated by SAIC in		Agree. Text revised as recommended.

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	Table H-5, Goal 6 (ALL RPTS)	relation to this Goal is not applicable nor meet the intent of the Goal. It needs to state something like "The Army minimizes habitat disturbance during HTRW activities and utilizes sustainability practices when disturbance is required in order to properly manage and maintain wildlife populations and resources.		
CR-14.	Appendix H, Table H-5, Goal 7 (ALL RPTS)	This goal does not really relate to HTRW work. Please delete.		Agree. Goal 7 deleted as recommended.
CR-15.	Appendix H, Table H-5, Goal 8 (ALL RPTS)	The comment stated by SAIC in relation to this Goal is not applicable nor meet the intent of the Goal. It needs to state something like "The Army sustains and manages forest resources by implementing a natural resource management plan. During HTRW activities, efforts are made by the Army to minimize impacts to forest communities.		Agree. Text revised as recommended.
CR-16.	Appendix H, Table H-5, Goal 9 (ALL RPTS)	Need to also mention that wetlands and surface waters are protected during disturbance activities and that avoidance measures are also implemented.		Agree. The Comments on Goals for Goal 9 has been revised as follows: "Wetlands and other surface waters are to be protected during disturbance activities in accordance with Federal, State, and local regulations. Avoidance measures will be implemented as practical. Some AOCs have wetlands."
CR-17.	Appendix H, Table H-5,	Need to also mention that stormwater/erosion controls are utilized		Agree. The Comments on Goals for Goal 10 has been revised as follows:

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	Goal 10 (ALL RPTS)	and implemented during and HTRW activities.		"Management of soil relevant to remedial activities under CERCLA. Appropriate storm water and erosion controls are to be utilized during activities that require ground disturbance."
CR-18.	Appendix H, Table H-5, Goal 11 (ALL RPTS)	The comment stated by SAIC in relation to this Goal is not applicable nor meet the intent of the Goal. It needs to state something like "The Army utilizes a cultural resource management plan to manage and protect cultural resources at the facility. Coordination with state and federal agencies regarding cultural resources is conducting as necessary. Restoration contractors are also advised to utilize the Camp Ravenna Policy for Inadvertent Discoveries for reporting purposes should they come upon a cultural item."		Agree. Text revised as recommended.
CR-19.	Appendix H, Table H-5, Goal 12 (ALL RPTS)	The comment stated by SAIC in relation to this Goal is not applicable nor meet the intent of the Goal. It needs to state something like "Natural resource data is collected and managed by the OHARNG. This data may be utilized during restoration activities in order to provide an accurate portrait of natural resources at an AOC."		Agree. Text revised as recommended.
USACE (Angela Schmidt)				
A-1.	GLOBAL	Please ensure comments made on the Draft Building 1200 are addressed in		Agree. The text has been reviewed to ensure the RAFLU is presented as recommended.

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		the ATA Draft as well. I have included them below to facilitate your ensure the term RAFLU is defined. You must present the RAFLU as follow: **PLEASE CHECK THIS AND ENSURE IT IS THE CORRECT USAGE FOR THE ATA AOC.** Anchor Test Area - RAFLU Dismounted Training – Digging OHARNG Military Use and Training Land Use Representative Receptor = National Guard Trainee RVAAP is a controlled access facility that is fenced and patrolled by security personnel. **Anchor Test Area located in the *xxxxx* portion of RVAAP, is currently inactive. Full-time OHARNG, BRAC, and contractor staff work at the facility.** Military training and operations are conducted at the facility. The OHARNG projected future land-use for the AOC is Military Use and Training. The representative receptor is the National Guard Trainee and per the FWHHRAM this constitutes the Risk Assessment Land Use of Dismounted Training- Digging. National Guard training, in conjunction with the evaluation of agricultural-residential land uses and associated receptors, form the basis for identifying COCs. Residential land use, specifically the		

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		Resident Farmer scenario, is included to evaluate COCs for unrestricted land use at the AOC as required by the CERCLA process and as outlined in the FWHHRAM (USACE 2005).		
A-2.	Page 7-12, Line 2 (ALL RPTS)	Please rewrite the 1-in-1. This is distracting as written.		Agree. Text revised as follows: "The calculated incremental lifetime cancer risks (ILCRs) are compared to the range specified in the NCP of 10-6 to 10-4, or 1 in a million to 1 in 10,000 exposed persons developing cancer (USEPA 1990)."
A-3.	Page 7-12 (ALL RPTS)	Delete last sentence of the first paragraph on page 7-12.		Agree. The text on Page 7-9, lines 39-41 of ATA and Page 7-12, lines 15-17 of B1200 has been revised as follows: "The ratio of intake over the RfD is the HQ (USEPA 1989). ~~An HQ greater than 1.0 has been defined as the level of concern for potential adverse non-carcinogenic health effects (USEPA 1989).~~"
A-4.	GLOBAL (ALL RPTS)	Please be consistent using Facility-wide CUGs as well as Facility-wide CUG Report. These should both be FWCUG after the first usage.		Agree. After defining in the first usage: 1) Facility-wide CUG Report has been presented as FWCUG Report, and 2) Facility-wide CUG has been presented as FWCUG.
A-5.	GLOBAL (ALL RPTS)	When we use the term Acceptable Risk, we are assuming that the person who is at risk accepts these. Please reference which agency deemed the risk acceptable.		Agree. The term "acceptable risk" is used in 2 locations in the RI/FS report, both times in reference to the SOR decision level of 1, which is from the FWCUG Report. Recommend the following changes to the text.

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				Page 7-9, lines 1-2 The SOR method is based on the principle that a ratio greater than 1 represents unacceptable ~~risk~~ cumulative exposure (i.e., above FWCUGs if adjusted for exposure to multiple COPCs), and a ratio less than or equal to 1 represents acceptable ~~risk~~ cumulative exposure (i.e., below FWCUGs if adjusted for exposure to multiple COPCs). Page 7-10, lines 6-8 The SOR method is based on the principle that a ratio greater than 1 represents unacceptable ~~risk~~ cumulative exposure (i.e., above FWCUGs if adjusted for exposure to multiple COPCs), and a ratio less than or equal to 1 represents acceptable ~~risk~~ cumulative exposure (i.e., below FWCUGs if adjusted for exposure to multiple COPCs).
A-6.	GLOBAL (ALL RPTS)	Please add references to the agreed upon and approved process for the unified approach for the ERAs in the PBA-2008.		Agree. Section 7.3.1 has been revised as follows: "The ERA presented in this RI/FS report follows a unified approach of methods integrating U.S. Army, Ohio EPA, and USEPA guidance. This ERA approach is consistent with the general approach by these agencies and primarily follows the Level I Scoping ERA, Level II Screening ERA, and Level III Baseline ERA outlined in the Guidance for Conducting Ecological Risk Assessments (Ohio EPA 2008), with specific application of components from the FWERWP, Risk Assessment Handbook Volume II: Environmental Evaluation (USACE 2010b), and Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments (USEPA 1997). The process implemented in this RI/FS report combines these guidance documents to meet requirements of the Ohio EPA and U.S. Army, while following previously accepted methods established for RVAAP. This unified approach resulted from

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				coordination between USACE and Ohio EPA during the summer of 2011."
A-7.	Page 7-37, Lines 1 through 4 (ALL RPTS)	Page 7-37, Lines 1 through 4 are repeated again in Lines 5 through 7. Please eliminate one.		Agree. In the reports that identify Aquatic Resources, the following subsection will not discuss the aquatic resources immediately afterward. Because the ATA RI/FS does not include aquatic resources, the comment does not apply to this report. However, as an example, text in Building 1200 RI/FS Report has been revised as follows: Aquatic Resources. The Building 1200 AOC has few aquatic resources. Although there are no ponds or streams at the Building 1200 AOC, there is one shallow drainage ditch and one small wetland. Habitat Descriptions and Species. ~~There are only two types of aquatic resources at the Building 1200 AOC, a shallow drainage ditch and small wetland. These aquatic resources are described and 6 assessed below.~~ The shallow drainage ditch…
A-8.	Page 7-38 (ALL RPTS)	Here and in all other RIs, please use the terms state-listed and federally-listed species instead of "rare" in the text.		Agree. "state-listed" and "federally-listed" has been used in place of "rare".
A-9.	GLOBAL (ALL RPTS)	Do not use the term for default COEC/COC for chemicals that lack an ESL.		Agree. The word "default" has been removed in the HHRA and ERA when discussing chemicals that do not have screening levels.
A-10.	Page 7-59 (ALL RPTS)	On page 7-59 and throughout as well as in other documents, please do not use the term "significant" to refer to resources.		Agree. Text has been reviewed to eliminate any phrases that only mention "significant resources" without any other modifiers. However, as long as there is a modifier, such as "ecologically-significant resources" then "significant" will remain in the text.

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A-11.	Section 7 (ALL RPTS)	It is important that we are consistent in our approach. It seems that the ATA is using the TR of 1.0 X 10-5 for COPCs which is not correct. If this is what was completed herein and in all documents, then it needs to be corrected. The process is as follows: 1.) SRCs are detected (pass freq. detection screen, etc.) 2.) EPCs of the SRCs are screened to FWCUGs at TR of 1.0 X 10-6 and HQ = 0.1 3.) COPCs are screened against FWCUG TR to determine COC using the 1.0 X 10-5 TR.	Revise document to follow process and correct all tables. I may have missed this in the Building 1200 RI, but I think it is just the way it is presented. For example, when you read the Title of Table 7-6, it seems you are determining the COPCs using TR of 1. X 10-5 and HQ = 1.	Clarification and agree. After review of the document (and subsequent documents), we verified the process and it is as stated in the comment. The SRCs are detected and undergo comparison of maximum detected concentrations (MDCs) to background, identification of essential nutrients, and frequency of detection screen. The screening criteria for identification of COPCs is and includes comparison of MDCs to FWCUGs at a target cancer risk level of 1E-06 and non-carcinogenic target HQ of 0.1. The criteria used for identifying COCs includes a comparison of exposure point concentrations (EPCs) to FWCUGs corresponding to a target risk of 1E-05 and target HQ of 1.0. To further clarify, the following changes have been made. Page 7-5, lines 15-17 have been revised below. "Most of the agreed-to risk assessment methods have been documented in the FWHHRAM and follow standard USEPA-approved risk assessment guidance. This includes the Process to Identify RVAAP Chemicals of Potential Concern (presented in Figure 5-1), the use of TR of 1E-06 and HQ of 0.1 to identify COPCs, and TR of 1E-05 and HQ of 1.0 to identify COCs." With respect to Table 7-6 (and all equivalent table), the intention is to compare previously identified COPCs to FWCUGs Corresponding to a HQ of 1.0 and TR of 1E-05, not to identify COPCs. To rectify, Table 7-6 (and all equivalent tables) will have the title revised as follows: "Table 7-6. FWCUGs Corresponding to an HQ of 1.0 and Target Risk of 1E-05 ~~for COPCs~~ in Soil"
A-12.	Section 7.2	Do not use the term AOC-specific for	Please correct here and all PBA 08	Agree. The term "AOC-specific" has been removed from

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	(ALL RPTS)	any process involving chemicals because we use this to distinguish chemicals that do not have a FWCUG or RSL and you have to calculate one.	documents.	the text in the HHRA and ERA.
A-13.	p 7-9, lines 28-30	Please consider only stating what Ohio EPA uses (1. X 10-5).		Agree. See response to comment O-7.